



Full wwPDB EM Validation Report ⓘ

Dec 31, 2024 – 11:48 AM EST

PDB ID : 8G2Z
EMDB ID : EMD-29685
Title : 48-nm doublet microtubule from Tetrahymena thermophila strain CU428
Authors : Black, C.S.; Kubo, S.; Yang, S.K.; Bui, K.H.
Deposited on : 2023-02-06
Resolution : 4.10 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev113
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4.02b-467
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.40

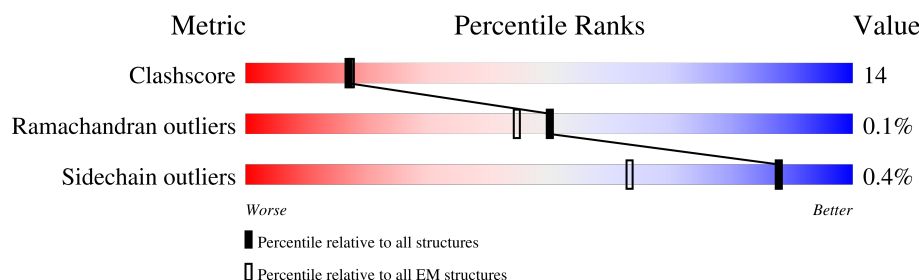
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.10 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	0A	236	<div> <div>13%</div> <div>52%</div> <div>12%</div> <div>36%</div> </div>
1	1A	236	<div> <div>13%</div> <div>57%</div> <div>7%</div> <div>36%</div> </div>
1	2A	236	<div> <div>9%</div> <div>53%</div> <div>11%</div> <div>36%</div> </div>
1	3A	236	<div> <div>11%</div> <div>55%</div> <div>9%</div> <div>36%</div> </div>
2	0B	329	<div> <div>5%</div> <div>87%</div> <div>11%</div> <div>•</div> </div>
3	0C	156	<div> <div>8%</div> <div>52%</div> <div>8%</div> <div>39%</div> </div>
3	1C	156	<div> <div>8%</div> <div>51%</div> <div>10%</div> <div>39%</div> </div>
4	0D	225	<div> <div>33%</div> <div>74%</div> <div>14%</div> <div>10%</div> </div>

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Mol	Chain	Length	Quality of chain
4	1D	225	
4	2D	225	
5	0E	191	
5	1E	191	
5	2E	191	
5	3E	191	
6	0F	219	
7	0G	183	
7	1G	183	
8	0H	447	
8	1H	447	
9	0N	492	
9	1N	492	
9	2N	492	
10	0Q	195	
10	1Q	195	
10	2Q	195	
10	3Q	195	
10	4Q	195	
10	5Q	195	
10	6Q	195	
11	0S	319	
11	1S	319	
11	2S	319	
11	3S	319	

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Mol	Chain	Length	Quality of chain
12	0T	298	
12	1T	298	
12	2T	298	
12	3T	298	
13	0U	656	
13	1U	656	
13	2U	656	
13	3U	656	
14	0V	269	
14	1V	269	
14	2V	269	
14	3V	269	
15	0X	142	
15	1X	142	
15	2X	142	
15	3X	142	
15	4X	142	
16	1B	498	
16	2B	498	
16	3B	498	
17	1F	173	
18	1I	263	
19	1J	422	
20	1K	489	
20	2K	489	

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Mol	Chain	Length	Quality of chain
21	1L	940	
21	2L	940	
21	3L	940	
22	1M	372	
22	2M	372	
23	1O	494	
23	2O	494	
23	3O	494	
24	1P	507	
24	2P	507	
25	1R	516	
25	2R	516	
25	3R	516	
26	1W	280	
26	2W	280	
27	2C	300	
27	3C	300	
27	4C	300	
28	2F	96	
29	2G	99	
30	2H	229	
30	3H	229	
30	4H	229	
31	2I	293	
31	3I	293	

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Mol	Chain	Length	Quality of chain
32	3D	237	
33	4F	276	
34	4R	613	
34	5R	613	
34	6R	613	
34	7R	613	
35	4S	249	
35	5S	249	
36	5A	175	
36	5B	175	
36	5C	175	
36	5D	175	
37	5E	247	
37	5F	247	
37	5G	247	
37	5H	247	
38	5I	168	
38	5J	168	
38	5K	168	
39	6F	145	
40	6G	364	
41	6H	518	
42	8L	507	
42	8N	507	
43	8P	529	

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Mol	Chain	Length	Quality of chain
44	8R	361	
45	AA	449	
45	AC	449	
45	AE	449	
45	AG	449	
45	AI	449	
45	AK	449	
45	AM	449	
45	BA	449	
45	BC	449	
45	BE	449	
45	BG	449	
45	BI	449	
45	BK	449	
45	BM	449	
45	CA	449	
45	CC	449	
45	CE	449	
45	CG	449	
45	CI	449	
45	CK	449	
45	CM	449	
45	DA	449	
45	DC	449	
45	DE	449	

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Mol	Chain	Length	Quality of chain
45	DG	449	
45	DI	449	
45	DK	449	
45	DM	449	
45	EA	449	
45	EC	449	
45	EE	449	
45	EG	449	
45	EI	449	
45	EK	449	
45	EM	449	
45	FA	449	
45	FC	449	
45	FE	449	
45	FG	449	
45	FI	449	
45	FK	449	
45	FM	449	
45	GA	449	
45	GC	449	
45	GE	449	
45	GG	449	
45	GI	449	
45	GK	449	
45	GM	449	







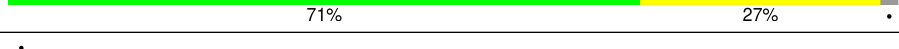
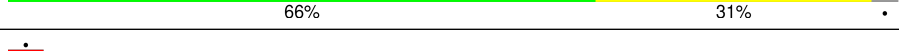
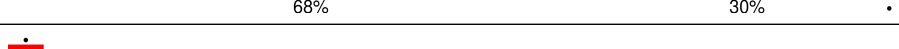
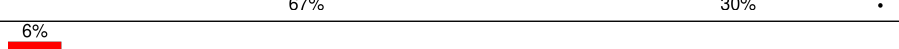
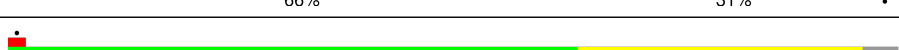

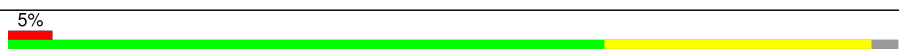

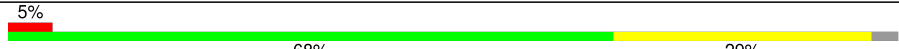





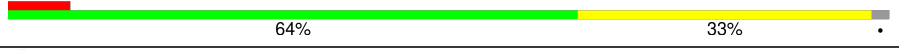
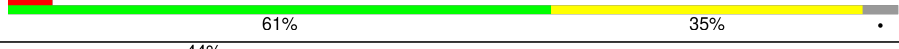



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Mol	Chain	Length	Quality of chain
45	HA	449	
45	HC	449	
45	HE	449	
45	HG	449	
45	HI	449	
45	HK	449	
45	HM	449	
45	IA	449	
45	IC	449	
45	IE	449	
45	IG	449	
45	II	449	
45	IK	449	
45	IM	449	
45	JA	449	
45	JC	449	
45	JE	449	
45	JG	449	
45	JI	449	
45	JK	449	
45	JM	449	
45	KA	449	
45	KC	449	
45	KE	449	
45	KG	449	



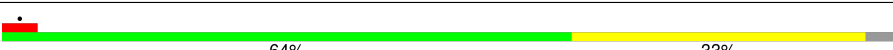
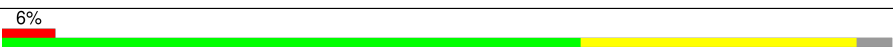

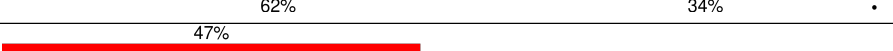
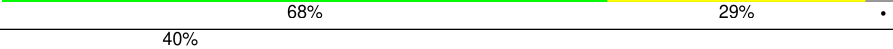





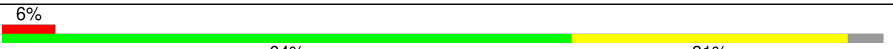


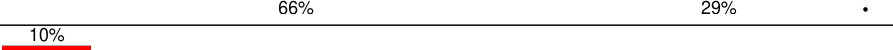








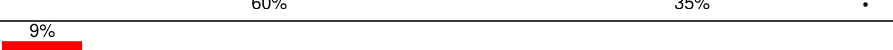
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Mol	Chain	Length	Quality of chain
45	KI	449	
45	KK	449	
45	KM	449	
45	LA	449	
45	LC	449	
45	LE	449	
45	LG	449	
45	LI	449	
45	LK	449	
45	LM	449	
45	MA	449	
45	MC	449	
45	ME	449	
45	MG	449	
45	MI	449	
45	MK	449	
45	MM	449	
45	NA	449	
45	NC	449	
45	NE	449	
45	NG	449	
45	NI	449	
45	NK	449	
45	NM	449	
45	OA	449	

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Mol	Chain	Length	Quality of chain
45	OC	449	
45	OE	449	
45	OG	449	
45	OI	449	
45	OK	449	
45	OM	449	
45	PA	449	
45	PC	449	
45	PE	449	
45	PG	449	
45	PI	449	
45	PK	449	
45	PM	449	
45	QA	449	
45	QC	449	
45	QE	449	
45	QG	449	
45	QI	449	
45	QK	449	
45	QM	449	
45	RA	449	
45	RC	449	
45	RE	449	
45	RG	449	
45	RI	449	



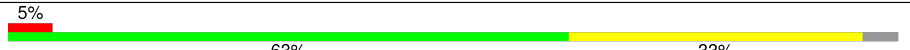
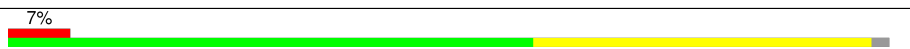
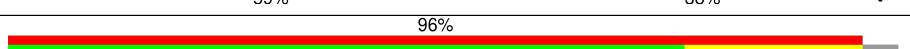
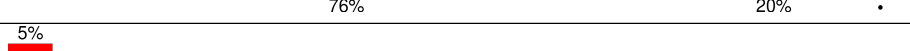
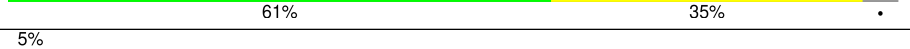








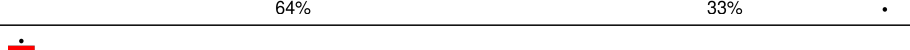








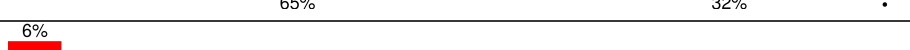
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Mol	Chain	Length	Quality of chain
45	RK	449	
45	RM	449	
45	SA	449	
45	SC	449	
45	SE	449	
45	SG	449	
45	SI	449	
45	SK	449	
45	SM	449	
45	TA	449	
45	TC	449	
45	TE	449	
45	TG	449	
45	TI	449	
45	TK	449	
45	TM	449	
45	UA	449	
45	UC	449	
45	UE	449	
45	UG	449	
45	UI	449	
45	UK	449	
45	UM	449	
45	VA	449	
45	VC	449	

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Mol	Chain	Length	Quality of chain
45	VE	449	
45	VG	449	
45	VI	449	
45	VK	449	
45	VM	449	
45	WA	449	
45	WC	449	
45	WE	449	
45	WG	449	
45	WI	449	
45	WK	449	
45	WM	449	
46	AB	443	
46	AD	443	
46	AF	443	
46	AH	443	
46	AJ	443	
46	AL	443	
46	AN	443	
46	BB	443	
46	BD	443	
46	BF	443	
46	BH	443	
46	BJ	443	
46	BL	443	







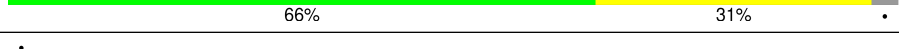
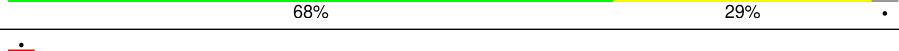
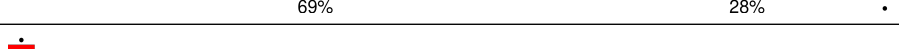
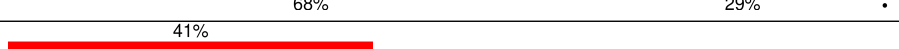


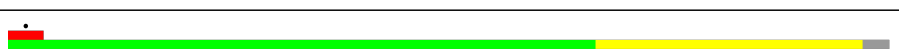

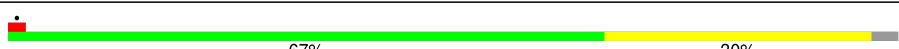





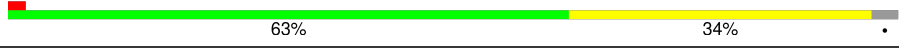
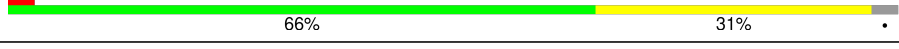



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Mol	Chain	Length	Quality of chain
46	BN	443	
46	CB	443	
46	CD	443	
46	CF	443	
46	CH	443	
46	CJ	443	
46	CL	443	
46	CN	443	
46	DB	443	
46	DD	443	
46	DF	443	
46	DH	443	
46	DJ	443	
46	DL	443	
46	DN	443	
46	EB	443	
46	ED	443	
46	EF	443	
46	EH	443	
46	EJ	443	
46	EL	443	
46	EN	443	
46	FB	443	
46	FD	443	
46	FF	443	

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Mol	Chain	Length	Quality of chain
46	FH	443	
46	FJ	443	
46	FL	443	
46	FN	443	
46	GB	443	
46	GD	443	
46	GF	443	
46	GH	443	
46	GJ	443	
46	GL	443	
46	GN	443	
46	HB	443	
46	HD	443	
46	HF	443	
46	HH	443	
46	HJ	443	
46	HL	443	
46	HN	443	
46	IB	443	
46	ID	443	
46	IF	443	
46	IH	443	
46	IJ	443	
46	IL	443	
46	IN	443	

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Mol	Chain	Length	Quality of chain
46	JB	443	
46	JD	443	
46	JF	443	
46	JH	443	
46	JJ	443	
46	JL	443	
46	JN	443	
46	KB	443	
46	KD	443	
46	KF	443	
46	KH	443	
46	KJ	443	
46	KL	443	
46	KN	443	
46	LB	443	
46	LD	443	
46	LF	443	
46	LH	443	
46	LJ	443	
46	LL	443	
46	LN	443	
46	MB	443	
46	MD	443	
46	MF	443	
46	MH	443	

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Mol	Chain	Length	Quality of chain
46	MJ	443	
46	ML	443	
46	MN	443	
46	NB	443	
46	ND	443	
46	NF	443	
46	NH	443	
46	NJ	443	
46	NL	443	
46	NN	443	
46	OB	443	
46	OD	443	
46	OF	443	
46	OH	443	
46	OJ	443	
46	OL	443	
46	ON	443	
46	PB	443	
46	PD	443	
46	PF	443	
46	PH	443	
46	PJ	443	
46	PL	443	
46	PN	443	
46	QB	443	

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Mol	Chain	Length	Quality of chain
46	QD	443	
46	QF	443	
46	QH	443	
46	QJ	443	
46	QL	443	
46	QN	443	
46	RB	443	
46	RD	443	
46	RF	443	
46	RH	443	
46	RJ	443	
46	RL	443	
46	RN	443	
46	SB	443	
46	SD	443	
46	SF	443	
46	SH	443	
46	SJ	443	
46	SL	443	
46	SN	443	
46	TB	443	
46	TD	443	
46	TF	443	
46	TH	443	
46	TJ	443	

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Mol	Chain	Length	Quality of chain
46	TL	443	
46	TN	443	
46	UB	443	
46	UD	443	
46	UF	443	
46	UH	443	
46	UJ	443	
46	UL	443	
46	UN	443	
46	VB	443	
46	VD	443	
46	VF	443	
46	VH	443	
46	VJ	443	
46	VL	443	
46	VN	443	
46	WB	443	
46	WD	443	
46	WF	443	
46	WH	443	
46	WJ	443	
46	WL	443	
46	WN	443	

2 Entry composition

There are 49 unique types of molecules in this entry. The entry contains 1325153 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called RIB27A.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0A	152	Total	C	N	O	S	0	0
			1229	776	224	228	1		
1	1A	152	Total	C	N	O	S	0	0
			1229	776	224	228	1		
1	2A	152	Total	C	N	O	S	0	0
			1229	776	224	228	1		
1	3A	152	Total	C	N	O	S	0	0
			1229	776	224	228	1		

- Molecule 2 is a protein called RIB38.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	0B	321	Total	C	N	O	S	0	0
			2615	1634	472	502	7		

There are 5 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0B	10	THR	SER	conflict	UNP Q23JL9
0B	11	ALA	THR	conflict	UNP Q23JL9
0B	12	LEU	ALA	conflict	UNP Q23JL9
0B	13	MET	LEU	conflict	UNP Q23JL9
0B	36	SER	THR	conflict	UNP Q23JL9

- Molecule 3 is a protein called CFAM166B.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	0C	95	Total	C	N	O	S	0	0
			747	471	131	143	2		
3	1C	95	Total	C	N	O	S	0	0
			747	471	131	143	2		

- Molecule 4 is a protein called CFAM166A.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	0D	202	Total	C	N	O	S	1	0
			1619	1018	292	307	2		
4	1D	202	Total	C	N	O	S	1	0
			1619	1018	292	307	2		
4	2D	202	Total	C	N	O	S	1	0
			1619	1018	292	307	2		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0D	86	ALA	THR	conflict	UNP Q238X3
0D	87	GLU	GLN	conflict	UNP Q238X3
1D	86	ALA	THR	conflict	UNP Q238X3
1D	87	GLU	GLN	conflict	UNP Q238X3
2D	86	ALA	THR	conflict	UNP Q238X3
2D	87	GLU	GLN	conflict	UNP Q238X3

- Molecule 5 is a protein called RIB22.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	0E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
5	1E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
5	2E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		
5	3E	189	Total	C	N	O	S	0	0
			1557	978	280	294	5		

- Molecule 6 is a protein called CFAM166C.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	0F	206	Total	C	N	O	S	0	0
			1665	1048	300	314	3		

- Molecule 7 is a protein called CFAP107.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	0G	168	Total	C	N	O	S	0	0
			1378	871	237	265	5		
7	1G	135	Total	C	N	O	S	0	0
			1109	702	190	214	3		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0G	127	ALA	LEU	conflict	UNP Q237T1
0G	128	LEU	SER	conflict	UNP Q237T1
0G	129	SER	ALA	conflict	UNP Q237T1
0G	130	ALA	SER	conflict	UNP Q237T1
0G	131	SER	ALA	conflict	UNP Q237T1
0G	140	PHE	TYR	conflict	UNP Q237T1
1G	127	ALA	LEU	conflict	UNP Q237T1
1G	128	LEU	SER	conflict	UNP Q237T1
1G	129	SER	ALA	conflict	UNP Q237T1
1G	130	ALA	SER	conflict	UNP Q237T1
1G	131	SER	ALA	conflict	UNP Q237T1
1G	140	PHE	TYR	conflict	UNP Q237T1

- Molecule 8 is a protein called CFAP127.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	0H	120	Total	C	N	O	S	0	0
			1046	654	189	198	5		
8	1H	425	Total	C	N	O	S	0	0
			3706	2281	691	720	14		

- Molecule 9 is a protein called CFAP161A.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	0N	280	Total	C	N	O	S	0	0
			2305	1455	396	441	13		
9	1N	463	Total	C	N	O	S	0	0
			3805	2414	653	723	15		
9	2N	280	Total	C	N	O	S	0	0
			2305	1455	396	441	13		

- Molecule 10 is a protein called CFAP20.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	0Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	1Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	2Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
10	3Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	4Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	5Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		
10	6Q	186	Total	C	N	O	S	0	0
			1548	997	268	276	7		

- Molecule 11 is a protein called Parkin co-regulated protein PACRGA.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	0S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		
11	1S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		
11	2S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		
11	3S	288	Total	C	N	O	S	0	0
			2310	1485	397	422	6		

- Molecule 12 is a protein called IJ34.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	0T	261	Total	C	N	O	S	0	0
			2124	1351	373	391	9		
12	1T	285	Total	C	N	O	S	0	0
			2321	1471	411	430	9		
12	2T	285	Total	C	N	O	S	0	0
			2321	1471	411	430	9		
12	3T	285	Total	C	N	O	S	0	0
			2321	1471	411	430	9		

- Molecule 13 is a protein called CFAP52A.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	0U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		
13	1U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		
13	2U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	3U	607	Total	C	N	O	S	0	0
			4774	3025	819	906	24		

- Molecule 14 is a protein called DNA polymerase delta C4-type zinc-finger protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	0V	212	Total	C	N	O	S	0	0
			1750	1095	317	332	6		
14	1V	263	Total	C	N	O	S	0	0
			2168	1359	388	412	9		
14	2V	263	Total	C	N	O	S	0	0
			2168	1359	388	412	9		
14	3V	263	Total	C	N	O	S	0	0
			2168	1359	388	412	9		

- Molecule 15 is a protein called RIB43A protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	0X	110	Total	C	N	O	S	0	0
			935	570	175	185	5		
15	1X	141	Total	C	N	O	S	0	0
			1202	732	227	237	6		
15	2X	141	Total	C	N	O	S	0	0
			1202	732	227	237	6		
15	3X	141	Total	C	N	O	S	0	0
			1202	732	227	237	6		
15	4X	141	Total	C	N	O	S	0	0
			1202	732	227	237	6		

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
0X	13	SER	PRO	conflict	UNP A4VDZ5
0X	14	ASP	HIS	conflict	UNP A4VDZ5
1X	13	SER	PRO	conflict	UNP A4VDZ5
1X	14	ASP	HIS	conflict	UNP A4VDZ5
2X	13	SER	PRO	conflict	UNP A4VDZ5
2X	14	ASP	HIS	conflict	UNP A4VDZ5
3X	13	SER	PRO	conflict	UNP A4VDZ5
3X	14	ASP	HIS	conflict	UNP A4VDZ5
4X	13	SER	PRO	conflict	UNP A4VDZ5
4X	14	ASP	HIS	conflict	UNP A4VDZ5

- Molecule 16 is a protein called RIB57.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	1B	498	Total	C	N	O	S	0	0
			4066	2598	692	768	8		
16	2B	295	Total	C	N	O	S	0	0
			2439	1553	416	464	6		
16	3B	295	Total	C	N	O	S	0	0
			2437	1552	416	463	6		

- Molecule 17 is a protein called CFAP182A.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	1F	136	Total	C	N	O	S	0	0
			1093	696	184	208	5		

- Molecule 18 is a protein called CFAP143.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	1I	188	Total	C	N	O	S	0	0
			1546	951	285	306	4		

- Molecule 19 is a protein called CFAP21A.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	1J	370	Total	C	N	O	S	0	0
			3025	1901	533	580	11		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1J	322	ASP	ASN	conflict	UNP I7MLS4

- Molecule 20 is a protein called CFAP53.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	1K	277	Total	C	N	O	S	0	0
			2425	1500	452	466	7		
20	2K	288	Total	C	N	O	S	0	0
			2506	1547	460	492	7		

- Molecule 21 is a protein called CFAP115.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	1L	820	Total	C	N	O	S	0	0
			6842	4358	1186	1280	18		
21	2L	616	Total	C	N	O	S	0	0
			5151	3286	896	957	12		
21	3L	200	Total	C	N	O	S	0	0
			1660	1053	284	317	6		

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1L	863	GLU	GLY	conflict	UNP Q23KF9
1L	864	ALA	GLU	conflict	UNP Q23KF9
2L	863	GLU	GLY	conflict	UNP Q23KF9
2L	864	ALA	GLU	conflict	UNP Q23KF9
3L	863	GLU	GLY	conflict	UNP Q23KF9
3L	864	ALA	GLU	conflict	UNP Q23KF9

- Molecule 22 is a protein called Nucleoside diphosphate kinase.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	1M	369	Total	C	N	O	S	0	0
			2978	1910	501	552	15		
22	2M	369	Total	C	N	O	S	0	0
			2978	1910	501	552	15		

- Molecule 23 is a protein called Cilia- and flagella-associated protein 45.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	1O	241	Total	C	N	O	S	0	0
			2032	1266	359	395	12		
23	2O	370	Total	C	N	O	S	0	0
			3173	1948	595	617	13		
23	3O	279	Total	C	N	O	S	0	0
			2397	1471	456	466	4		

- Molecule 24 is a protein called CFAP210.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	1P	355	Total	C	N	O	S	0	0
			3060	1889	575	588	8		
24	2P	190	Total	C	N	O	S	0	0
			1633	1005	309	313	6		

- Molecule 25 is a protein called RIB72B.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	1R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		
25	2R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		
25	3R	508	Total	C	N	O	S	0	0
			4244	2744	711	777	12		

- Molecule 26 is a protein called Protofilament ribbon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	1W	224	Total	C	N	O	S	0	0
			1924	1167	380	368	9		
26	2W	116	Total	C	N	O	S	0	0
			990	611	189	184	6		

- Molecule 27 is a protein called RIB35.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	2C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		
27	3C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		
27	4C	300	Total	C	N	O	S	0	0
			2467	1581	417	464	5		

- Molecule 28 is a protein called CFAP182B.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	2F	87	Total	C	N	O	S	0	0
			746	469	136	137	4		

- Molecule 29 is a protein called Flagellar FliJ protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	2G	99	Total	C	N	O	S	0	0
			848	536	153	155	4		

- Molecule 30 is a protein called RIB27B.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	2H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		
30	3H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		
30	4H	61	Total	C	N	O	S	0	0
			501	313	92	94	2		

- Molecule 31 is a protein called STPG2.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	2I	142	Total	C	N	O	S	0	0
			1150	736	204	209	1		
31	3I	87	Total	C	N	O	S	0	0
			712	451	130	127	4		

- Molecule 32 is a protein called RIB26.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	3D	237	Total	C	N	O	S	0	0
			1835	1174	310	340	11		

- Molecule 33 is a protein called CFAP129.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	4F	200	Total	C	N	O	S	0	0
			1618	1022	286	308	2		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
4F	70	VAL	ASP	conflict	UNP I7M9I4

- Molecule 34 is a protein called Flagellar microtubule protofilament ribbon protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	4R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
34	5R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
34	6R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		
34	7R	609	Total	C	N	O	S	0	0
			5070	3267	847	932	24		

- Molecule 35 is a protein called Parkin co-regulated protein PACRGB.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	4S	188	Total	C	N	O	S	0	0
			1537	999	251	279	8		
35	5S	188	Total	C	N	O	S	0	0
			1537	999	251	279	8		

- Molecule 36 is a protein called OJ2.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	5A	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
36	5B	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
36	5C	157	Total	C	N	O	S	0	0
			1261	795	234	229	3		
36	5D	114	Total	C	N	O	S	0	0
			908	571	165	169	3		

- Molecule 37 is a protein called CFAP77A.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	5E	188	Total	C	N	O	S	0	0
			1566	992	281	288	5		
37	5F	210	Total	C	N	O	S	0	0
			1750	1107	316	322	5		
37	5G	210	Total	C	N	O	S	0	0
			1750	1107	316	322	5		
37	5H	146	Total	C	N	O	S	0	0
			1210	764	217	225	4		

- Molecule 38 is a protein called OJ3.

Mol	Chain	Residues	Atoms				AltConf	Trace
38	5I	103	Total	C	N	O	0	0
			515	309	103	103		
38	5J	109	Total	C	N	O	0	0
			545	327	109	109		
38	5K	80	Total	C	N	O	0	0
			400	240	80	80		

- Molecule 39 is a protein called SB1.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	6F	132	Total	C	N	O	S	0	0
			1140	718	197	221	4		

- Molecule 40 is a protein called STPG1A.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	6G	216	Total	C	N	O	S	0	0
			1769	1128	303	333	5		

- Molecule 41 is a protein called Nebulin.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	6H	165	Total	C	N	O	S	0	0
			1362	857	234	266	5		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
6H	186	HIS	GLN	conflict	UNP Q231B6
6H	198	HIS	MET	conflict	UNP Q231B6

- Molecule 42 is a protein called B5B6_fMIP.

Mol	Chain	Residues	Atoms				AltConf	Trace
42	8L	385	Total	C	N	O	0	0
			1925	1155	385	385		
42	8N	358	Total	C	N	O	0	0
			1790	1074	358	358		

- Molecule 43 is a protein called CFAP112A.

Mol	Chain	Residues	Atoms				AltConf	Trace
43	8P	363	Total	C	N	O	0	0
			1815	1089	363	363		

- Molecule 44 is a protein called B2B3_fMIP.

Mol	Chain	Residues	Atoms				AltConf	Trace
44	8R	361	Total	C	N	O	0	0
			2020	1269	361	390		

- Molecule 45 is a protein called Tubulin alpha chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	AA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	AM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	BA	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BC	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BE	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BG	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BI	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	BM	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	CA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	CM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	DA	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	DE	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	DG	436	Total	C	N	O	S	0	0
			3389	2143	576	648	22		
45	DI	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	DK	436	Total	C	N	O	S	0	0
			3389	2143	576	648	22		
45	DM	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	EA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	EM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	FA	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	FC	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	FE	434	Total	C	N	O	S	0	0
			3376	2135	573	646	22		
45	FG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	FI	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	FK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	FM	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	GA	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	GC	431	Total	C	N	O	S	0	0
			3358	2126	570	640	22		
45	GE	431	Total	C	N	O	S	0	0
			3358	2126	570	640	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	GG	431	Total	C	N	O	S	0	0
			3358	2126	570	640	22		
45	GI	431	Total	C	N	O	S	0	0
			3358	2126	570	640	22		
45	GK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	GM	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	HA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HC	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HG	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HK	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	HM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	IA	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	IC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	IE	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	IG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	II	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	IK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	IM	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	JA	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	JC	434	Total	C	N	O	S	0	0
			3376	2135	573	646	22		
45	JE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	JG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	JI	439	Total	C	N	O	S	0	0
			3404	2151	579	652	22		
45	JK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	JM	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	KA	434	Total	C	N	O	S	0	0
			3376	2135	573	646	22		
45	KC	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	KE	435	Total	C	N	O	S	0	0
			3385	2141	575	647	22		
45	KG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	KI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	KK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	KM	434	Total	C	N	O	S	0	0
			3376	2135	573	646	22		
45	LA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	LC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	LE	438	Total	C	N	O	S	0	0
			3400	2149	578	651	22		
45	LG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	LI	434	Total	C	N	O	S	0	0
			3381	2139	574	646	22		
45	LK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	LM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	MA	436	Total	C	N	O	S	0	0
			3392	2145	576	649	22		
45	MC	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	ME	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	MG	437	Total	C	N	O	S	0	0
			3400	2151	577	650	22		
45	MI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	MK	436	Total	C	N	O	S	0	0
			3384	2139	575	648	22		
45	MM	436	Total	C	N	O	S	0	0
			3392	2145	576	649	22		
45	NA	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	NC	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	NE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	NG	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	NI	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	NK	432	Total	C	N	O	S	0	0
			3364	2129	571	642	22		
45	NM	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	OA	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OC	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OE	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OG	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OI	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OK	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	OM	433	Total	C	N	O	S	0	0
			3368	2131	572	643	22		
45	PA	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PC	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PE	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	PG	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PI	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PK	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	PM	429	Total	C	N	O	S	0	0
			3342	2118	568	634	22		
45	QA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QC	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QG	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QK	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	QM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RC	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RG	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RK	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	RM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	SA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SE	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	SG	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SI	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SK	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	SM	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TA	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TC	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TE	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TG	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TI	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TK	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	TM	430	Total	C	N	O	S	0	0
			3350	2122	569	637	22		
45	UA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UC	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UG	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UK	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	UM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	VA	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	VC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	VE	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
45	VG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	VI	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	VK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	VM	433	Total	C	N	O	S	0	0
			3372	2133	572	645	22		
45	WA	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	WC	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	WE	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	WG	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	WI	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	WK	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	WM	431	Total	C	N	O	S	0	0
			3356	2125	570	639	22		
45	CE	439	Total	C	N	O	S	0	0
			3408	2155	579	652	22		
45	DC	436	Total	C	N	O	S	0	0
			3389	2143	576	648	22		

- Molecule 46 is a protein called Tubulin beta chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	AB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	AL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	AN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	BB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	BD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	BF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	BH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	BJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	BL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	BN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	CB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	CD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	CF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	CH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	CJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	CL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	CN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	DB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	DD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	DF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	DH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	DJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	DL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	DN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	EB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	ED	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	EF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	EH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	EJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	EL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	EN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	FB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	FD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	FF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	FH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	FJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	FL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	FN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	GB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	GD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	GF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	GH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	GJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	GL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	GN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	HB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	HD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	HF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	HH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	HJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	HL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	HN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	IB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	ID	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	IF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	IH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	IJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	IL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	IN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	JB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	JD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	JF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	JH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	JJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	JL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	JN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	KB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	KD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	KF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	KH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	KJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	KL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	KN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	LB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	LD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	LF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	LH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	LJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	LL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	LN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	MB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	MD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	MF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	MH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	MJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	ML	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	MN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	NB	423	Total	C	N	O	S	0	0
			3304	2079	562	635	28		
46	ND	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	NF	423	Total	C	N	O	S	0	0
			3304	2079	562	635	28		
46	NH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	NJ	423	Total	C	N	O	S	0	0
			3304	2079	562	635	28		
46	NL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	NN	423	Total	C	N	O	S	0	0
			3304	2079	562	635	28		
46	OB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	OL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	ON	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	PL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	PN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	QN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	RN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	SL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

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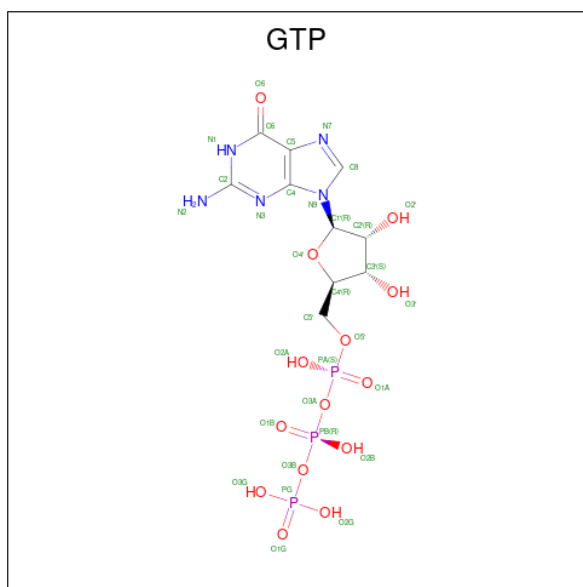
Mol	Chain	Residues	Atoms					AltConf	Trace
46	SN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	TB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	TD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	TF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	TH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	TJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	TL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	TN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	UB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	UD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	UF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	UH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	UJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	UL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	UN	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	VB	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	VD	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	VF	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	VH	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	VJ	430	Total 3366	C 2115	N 577	O 646	S 28	0	0
46	VL	430	Total 3366	C 2115	N 577	O 646	S 28	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
46	VN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WB	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WD	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WF	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WH	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WJ	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WL	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		
46	WN	430	Total	C	N	O	S	0	0
			3366	2115	577	646	28		

- Molecule 47 is GUANOSINE-5'-TRIPHOSPHATE (three-letter code: GTP) (formula: $C_{10}H_{16}N_5O_{14}P_3$) (labeled as "Ligand of Interest" by depositor).



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Mol	Chain	Residues	Atoms					AltConf
47	AG	1	Total 32	C 10	N 5	O 14	P 3	0
47	AI	1	Total 32	C 10	N 5	O 14	P 3	0
47	AK	1	Total 32	C 10	N 5	O 14	P 3	0
47	AM	1	Total 32	C 10	N 5	O 14	P 3	0
47	BA	1	Total 32	C 10	N 5	O 14	P 3	0
47	BC	1	Total 32	C 10	N 5	O 14	P 3	0
47	BE	1	Total 32	C 10	N 5	O 14	P 3	0
47	BG	1	Total 32	C 10	N 5	O 14	P 3	0
47	BI	1	Total 32	C 10	N 5	O 14	P 3	0
47	BK	1	Total 32	C 10	N 5	O 14	P 3	0
47	BM	1	Total 32	C 10	N 5	O 14	P 3	0
47	CA	1	Total 32	C 10	N 5	O 14	P 3	0
47	CC	1	Total 32	C 10	N 5	O 14	P 3	0
47	CG	1	Total 32	C 10	N 5	O 14	P 3	0
47	CI	1	Total 32	C 10	N 5	O 14	P 3	0
47	CK	1	Total 32	C 10	N 5	O 14	P 3	0
47	CM	1	Total 32	C 10	N 5	O 14	P 3	0
47	DA	1	Total 32	C 10	N 5	O 14	P 3	0
47	DE	1	Total 32	C 10	N 5	O 14	P 3	0
47	DG	1	Total 32	C 10	N 5	O 14	P 3	0
47	DI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
47	DK	1	Total 32	C 10	N 5	O 14	P 3	0
47	DM	1	Total 32	C 10	N 5	O 14	P 3	0
47	EA	1	Total 32	C 10	N 5	O 14	P 3	0
47	EC	1	Total 32	C 10	N 5	O 14	P 3	0
47	EE	1	Total 32	C 10	N 5	O 14	P 3	0
47	EG	1	Total 32	C 10	N 5	O 14	P 3	0
47	EI	1	Total 32	C 10	N 5	O 14	P 3	0
47	EK	1	Total 32	C 10	N 5	O 14	P 3	0
47	EM	1	Total 32	C 10	N 5	O 14	P 3	0
47	FA	1	Total 32	C 10	N 5	O 14	P 3	0
47	FC	1	Total 32	C 10	N 5	O 14	P 3	0
47	FE	1	Total 32	C 10	N 5	O 14	P 3	0
47	FG	1	Total 32	C 10	N 5	O 14	P 3	0
47	FI	1	Total 32	C 10	N 5	O 14	P 3	0
47	FK	1	Total 32	C 10	N 5	O 14	P 3	0
47	FM	1	Total 32	C 10	N 5	O 14	P 3	0
47	GA	1	Total 32	C 10	N 5	O 14	P 3	0
47	GC	1	Total 32	C 10	N 5	O 14	P 3	0
47	GE	1	Total 32	C 10	N 5	O 14	P 3	0
47	GG	1	Total 32	C 10	N 5	O 14	P 3	0
47	GI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
47	GK	1	Total 32	C 10	N 5	O 14	P 3	0
47	GM	1	Total 32	C 10	N 5	O 14	P 3	0
47	HA	1	Total 32	C 10	N 5	O 14	P 3	0
47	HC	1	Total 32	C 10	N 5	O 14	P 3	0
47	HE	1	Total 32	C 10	N 5	O 14	P 3	0
47	HG	1	Total 32	C 10	N 5	O 14	P 3	0
47	HI	1	Total 32	C 10	N 5	O 14	P 3	0
47	HK	1	Total 32	C 10	N 5	O 14	P 3	0
47	HM	1	Total 32	C 10	N 5	O 14	P 3	0
47	IA	1	Total 32	C 10	N 5	O 14	P 3	0
47	IC	1	Total 32	C 10	N 5	O 14	P 3	0
47	IE	1	Total 32	C 10	N 5	O 14	P 3	0
47	IG	1	Total 32	C 10	N 5	O 14	P 3	0
47	II	1	Total 32	C 10	N 5	O 14	P 3	0
47	IK	1	Total 32	C 10	N 5	O 14	P 3	0
47	IM	1	Total 32	C 10	N 5	O 14	P 3	0
47	JA	1	Total 32	C 10	N 5	O 14	P 3	0
47	JC	1	Total 32	C 10	N 5	O 14	P 3	0
47	JE	1	Total 32	C 10	N 5	O 14	P 3	0
47	JG	1	Total 32	C 10	N 5	O 14	P 3	0
47	JI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
47	JK	1	Total 32	C 10	N 5	O 14	P 3	0
47	JM	1	Total 32	C 10	N 5	O 14	P 3	0
47	KA	1	Total 32	C 10	N 5	O 14	P 3	0
47	KC	1	Total 32	C 10	N 5	O 14	P 3	0
47	KE	1	Total 32	C 10	N 5	O 14	P 3	0
47	KG	1	Total 32	C 10	N 5	O 14	P 3	0
47	KI	1	Total 32	C 10	N 5	O 14	P 3	0
47	KK	1	Total 32	C 10	N 5	O 14	P 3	0
47	KM	1	Total 32	C 10	N 5	O 14	P 3	0
47	LA	1	Total 32	C 10	N 5	O 14	P 3	0
47	LC	1	Total 32	C 10	N 5	O 14	P 3	0
47	LE	1	Total 32	C 10	N 5	O 14	P 3	0
47	LG	1	Total 32	C 10	N 5	O 14	P 3	0
47	LI	1	Total 32	C 10	N 5	O 14	P 3	0
47	LK	1	Total 32	C 10	N 5	O 14	P 3	0
47	LM	1	Total 32	C 10	N 5	O 14	P 3	0
47	MA	1	Total 32	C 10	N 5	O 14	P 3	0
47	MC	1	Total 32	C 10	N 5	O 14	P 3	0
47	ME	1	Total 32	C 10	N 5	O 14	P 3	0
47	MG	1	Total 32	C 10	N 5	O 14	P 3	0
47	MI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
47	MK	1	32	10	5	14	3	0
47	MM	1	32	10	5	14	3	0
47	NA	1	32	10	5	14	3	0
47	NC	1	32	10	5	14	3	0
47	NE	1	32	10	5	14	3	0
47	NG	1	32	10	5	14	3	0
47	NI	1	32	10	5	14	3	0
47	NK	1	32	10	5	14	3	0
47	NM	1	32	10	5	14	3	0
47	OA	1	32	10	5	14	3	0
47	OC	1	32	10	5	14	3	0
47	OF	1	32	10	5	14	3	0
47	OG	1	32	10	5	14	3	0
47	OI	1	32	10	5	14	3	0
47	OK	1	32	10	5	14	3	0
47	OM	1	32	10	5	14	3	0
47	PA	1	32	10	5	14	3	0
47	PD	1	32	10	5	14	3	0
47	PE	1	32	10	5	14	3	0
47	PG	1	32	10	5	14	3	0
47	PI	1	32	10	5	14	3	0

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Mol	Chain	Residues	Atoms					AltConf
47	PK	1	Total 32	C 10	N 5	O 14	P 3	0
47	PM	1	Total 32	C 10	N 5	O 14	P 3	0
47	QA	1	Total 32	C 10	N 5	O 14	P 3	0
47	QC	1	Total 32	C 10	N 5	O 14	P 3	0
47	QE	1	Total 32	C 10	N 5	O 14	P 3	0
47	QG	1	Total 32	C 10	N 5	O 14	P 3	0
47	QI	1	Total 32	C 10	N 5	O 14	P 3	0
47	QK	1	Total 32	C 10	N 5	O 14	P 3	0
47	QM	1	Total 32	C 10	N 5	O 14	P 3	0
47	RA	1	Total 32	C 10	N 5	O 14	P 3	0
47	RC	1	Total 32	C 10	N 5	O 14	P 3	0
47	RE	1	Total 32	C 10	N 5	O 14	P 3	0
47	RG	1	Total 32	C 10	N 5	O 14	P 3	0
47	RI	1	Total 32	C 10	N 5	O 14	P 3	0
47	RK	1	Total 32	C 10	N 5	O 14	P 3	0
47	RM	1	Total 32	C 10	N 5	O 14	P 3	0
47	SA	1	Total 32	C 10	N 5	O 14	P 3	0
47	SC	1	Total 32	C 10	N 5	O 14	P 3	0
47	SE	1	Total 32	C 10	N 5	O 14	P 3	0
47	SG	1	Total 32	C 10	N 5	O 14	P 3	0
47	SI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
47	SK	1	Total 32	C 10	N 5	O 14	P 3	0
47	SM	1	Total 32	C 10	N 5	O 14	P 3	0
47	TA	1	Total 32	C 10	N 5	O 14	P 3	0
47	TC	1	Total 32	C 10	N 5	O 14	P 3	0
47	TE	1	Total 32	C 10	N 5	O 14	P 3	0
47	TG	1	Total 32	C 10	N 5	O 14	P 3	0
47	TI	1	Total 32	C 10	N 5	O 14	P 3	0
47	TK	1	Total 32	C 10	N 5	O 14	P 3	0
47	TM	1	Total 32	C 10	N 5	O 14	P 3	0
47	UA	1	Total 32	C 10	N 5	O 14	P 3	0
47	UC	1	Total 32	C 10	N 5	O 14	P 3	0
47	UE	1	Total 32	C 10	N 5	O 14	P 3	0
47	UG	1	Total 32	C 10	N 5	O 14	P 3	0
47	UI	1	Total 32	C 10	N 5	O 14	P 3	0
47	UK	1	Total 32	C 10	N 5	O 14	P 3	0
47	UM	1	Total 32	C 10	N 5	O 14	P 3	0
47	VA	1	Total 32	C 10	N 5	O 14	P 3	0
47	VC	1	Total 32	C 10	N 5	O 14	P 3	0
47	VE	1	Total 32	C 10	N 5	O 14	P 3	0
47	VG	1	Total 32	C 10	N 5	O 14	P 3	0
47	VI	1	Total 32	C 10	N 5	O 14	P 3	0

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Mol	Chain	Residues	Atoms					AltConf
47	VK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	VM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WA	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WC	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WG	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WI	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WK	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	WM	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	CE	1	Total	C	N	O	P	0
			32	10	5	14	3	
47	DC	1	Total	C	N	O	P	0
			32	10	5	14	3	

- Molecule 48 is MAGNESIUM ION (three-letter code: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
48	AA	1	Total	Mg	0
			1	1	
48	AC	1	Total	Mg	0
			1	1	
48	AE	1	Total	Mg	0
			1	1	
48	AG	1	Total	Mg	0
			1	1	
48	AI	1	Total	Mg	0
			1	1	
48	AK	1	Total	Mg	0
			1	1	
48	AM	1	Total	Mg	0
			1	1	
48	BA	1	Total	Mg	0
			1	1	

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Mol	Chain	Residues	Atoms		AltConf
48	BC	1	Total 1	Mg 1	0
48	BE	1	Total 1	Mg 1	0
48	BG	1	Total 1	Mg 1	0
48	BI	1	Total 1	Mg 1	0
48	BK	1	Total 1	Mg 1	0
48	BM	1	Total 1	Mg 1	0
48	CA	1	Total 1	Mg 1	0
48	CC	1	Total 1	Mg 1	0
48	CG	1	Total 1	Mg 1	0
48	CI	1	Total 1	Mg 1	0
48	CK	1	Total 1	Mg 1	0
48	CM	1	Total 1	Mg 1	0
48	DA	1	Total 1	Mg 1	0
48	DE	1	Total 1	Mg 1	0
48	DG	1	Total 1	Mg 1	0
48	DI	1	Total 1	Mg 1	0
48	DK	1	Total 1	Mg 1	0
48	DM	1	Total 1	Mg 1	0
48	EA	1	Total 1	Mg 1	0
48	EC	1	Total 1	Mg 1	0
48	EE	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
48	EG	1	Total 1	Mg 1	0
48	EI	1	Total 1	Mg 1	0
48	EK	1	Total 1	Mg 1	0
48	EM	1	Total 1	Mg 1	0
48	FA	1	Total 1	Mg 1	0
48	FC	1	Total 1	Mg 1	0
48	FE	1	Total 1	Mg 1	0
48	FG	1	Total 1	Mg 1	0
48	FI	1	Total 1	Mg 1	0
48	FL	1	Total 1	Mg 1	0
48	FM	1	Total 1	Mg 1	0
48	GB	1	Total 1	Mg 1	0
48	GC	1	Total 1	Mg 1	0
48	GE	1	Total 1	Mg 1	0
48	GG	1	Total 1	Mg 1	0
48	GI	1	Total 1	Mg 1	0
48	GL	1	Total 1	Mg 1	0
48	GN	1	Total 1	Mg 1	0
48	HA	1	Total 1	Mg 1	0
48	HC	1	Total 1	Mg 1	0
48	HE	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
48	HG	1	Total 1	Mg 1	0
48	HI	1	Total 1	Mg 1	0
48	HK	1	Total 1	Mg 1	0
48	HM	1	Total 1	Mg 1	0
48	IA	1	Total 1	Mg 1	0
48	IC	1	Total 1	Mg 1	0
48	IE	1	Total 1	Mg 1	0
48	IG	1	Total 1	Mg 1	0
48	II	1	Total 1	Mg 1	0
48	IK	1	Total 1	Mg 1	0
48	IM	1	Total 1	Mg 1	0
48	JA	1	Total 1	Mg 1	0
48	JC	1	Total 1	Mg 1	0
48	JE	1	Total 1	Mg 1	0
48	JG	1	Total 1	Mg 1	0
48	JI	1	Total 1	Mg 1	0
48	JK	1	Total 1	Mg 1	0
48	JM	1	Total 1	Mg 1	0
48	KA	1	Total 1	Mg 1	0
48	KC	1	Total 1	Mg 1	0
48	KE	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
48	KG	1	Total 1	Mg 1	0
48	KI	1	Total 1	Mg 1	0
48	KK	1	Total 1	Mg 1	0
48	KM	1	Total 1	Mg 1	0
48	LA	1	Total 1	Mg 1	0
48	LC	1	Total 1	Mg 1	0
48	LE	1	Total 1	Mg 1	0
48	LG	1	Total 1	Mg 1	0
48	LI	1	Total 1	Mg 1	0
48	LK	1	Total 1	Mg 1	0
48	LM	1	Total 1	Mg 1	0
48	MA	1	Total 1	Mg 1	0
48	MC	1	Total 1	Mg 1	0
48	ME	1	Total 1	Mg 1	0
48	MG	1	Total 1	Mg 1	0
48	MI	1	Total 1	Mg 1	0
48	MK	1	Total 1	Mg 1	0
48	MM	1	Total 1	Mg 1	0
48	NA	1	Total 1	Mg 1	0
48	ND	1	Total 1	Mg 1	0
48	NE	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
48	NG	1	Total 1	Mg 1	0
48	NI	1	Total 1	Mg 1	0
48	NK	1	Total 1	Mg 1	0
48	NM	1	Total 1	Mg 1	0
48	OA	1	Total 1	Mg 1	0
48	OC	1	Total 1	Mg 1	0
48	OE	1	Total 1	Mg 1	0
48	OG	1	Total 1	Mg 1	0
48	OI	1	Total 1	Mg 1	0
48	OK	1	Total 1	Mg 1	0
48	OM	1	Total 1	Mg 1	0
48	PA	1	Total 1	Mg 1	0
48	PC	1	Total 1	Mg 1	0
48	PE	1	Total 1	Mg 1	0
48	PG	1	Total 1	Mg 1	0
48	PI	1	Total 1	Mg 1	0
48	PK	1	Total 1	Mg 1	0
48	PN	1	Total 1	Mg 1	0
48	QA	1	Total 1	Mg 1	0
48	QC	1	Total 1	Mg 1	0
48	QE	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
48	QG	1	Total 1	Mg 1	0
48	QI	1	Total 1	Mg 1	0
48	QK	1	Total 1	Mg 1	0
48	QM	1	Total 1	Mg 1	0
48	RA	1	Total 1	Mg 1	0
48	RC	1	Total 1	Mg 1	0
48	RD	1	Total 1	Mg 1	0
48	RG	1	Total 1	Mg 1	0
48	RI	1	Total 1	Mg 1	0
48	RK	1	Total 1	Mg 1	0
48	RM	1	Total 1	Mg 1	0
48	SA	1	Total 1	Mg 1	0
48	SC	1	Total 1	Mg 1	0
48	SE	1	Total 1	Mg 1	0
48	SG	1	Total 1	Mg 1	0
48	SI	1	Total 1	Mg 1	0
48	SK	1	Total 1	Mg 1	0
48	SM	1	Total 1	Mg 1	0
48	TA	1	Total 1	Mg 1	0
48	TB	1	Total 1	Mg 1	0
48	TE	1	Total 1	Mg 1	0

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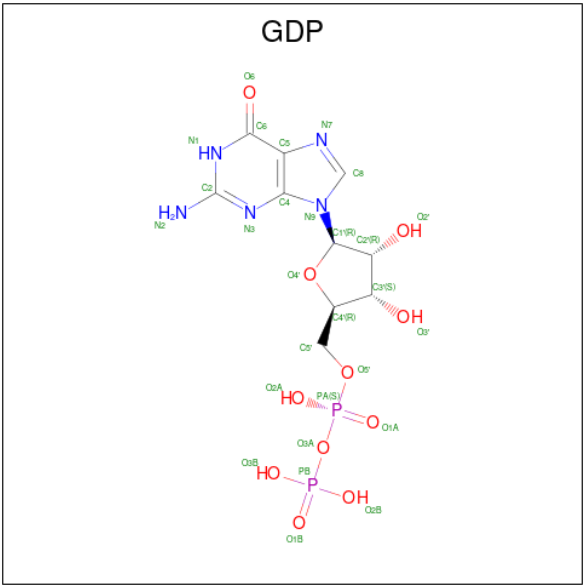
Mol	Chain	Residues	Atoms		AltConf
48	TF	1	Total 1	Mg 1	0
48	TI	1	Total 1	Mg 1	0
48	TK	1	Total 1	Mg 1	0
48	TL	1	Total 1	Mg 1	0
48	UA	1	Total 1	Mg 1	0
48	UC	1	Total 1	Mg 1	0
48	UE	1	Total 1	Mg 1	0
48	UG	1	Total 1	Mg 1	0
48	UI	1	Total 1	Mg 1	0
48	UK	1	Total 1	Mg 1	0
48	UM	1	Total 1	Mg 1	0
48	VA	1	Total 1	Mg 1	0
48	VC	1	Total 1	Mg 1	0
48	VE	1	Total 1	Mg 1	0
48	VG	1	Total 1	Mg 1	0
48	VI	1	Total 1	Mg 1	0
48	VK	1	Total 1	Mg 1	0
48	VM	1	Total 1	Mg 1	0
48	WA	1	Total 1	Mg 1	0
48	WC	1	Total 1	Mg 1	0
48	WE	1	Total 1	Mg 1	0

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Mol	Chain	Residues	Atoms		AltConf
48	WG	1	Total	Mg	0
			1	1	
48	WI	1	Total	Mg	0
			1	1	
48	WK	1	Total	Mg	0
			1	1	
48	WM	1	Total	Mg	0
			1	1	
48	CE	1	Total	Mg	0
			1	1	
48	DC	1	Total	Mg	0
			1	1	

- Molecule 49 is GUANOSINE-5'-DIPHOSPHATE (three-letter code: GDP) (formula: C₁₀H₁₅N₅O₁₁P₂) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
49	AB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	AD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	AF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	AH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	AJ	1	Total	C	N	O	P	0
			28	10	5	11	2	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	AL	1	28	10	5	11	2	0
49	AN	1	28	10	5	11	2	0
49	BB	1	28	10	5	11	2	0
49	BD	1	28	10	5	11	2	0
49	BF	1	28	10	5	11	2	0
49	BH	1	28	10	5	11	2	0
49	BJ	1	28	10	5	11	2	0
49	BL	1	28	10	5	11	2	0
49	BN	1	28	10	5	11	2	0
49	CB	1	28	10	5	11	2	0
49	CD	1	28	10	5	11	2	0
49	CF	1	28	10	5	11	2	0
49	CH	1	28	10	5	11	2	0
49	CJ	1	28	10	5	11	2	0
49	CL	1	28	10	5	11	2	0
49	CN	1	28	10	5	11	2	0
49	DB	1	28	10	5	11	2	0
49	DD	1	28	10	5	11	2	0
49	DF	1	28	10	5	11	2	0
49	DH	1	28	10	5	11	2	0
49	DJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	DL	1	28	10	5	11	2	0
49	DN	1	28	10	5	11	2	0
49	EB	1	28	10	5	11	2	0
49	ED	1	28	10	5	11	2	0
49	EF	1	28	10	5	11	2	0
49	EH	1	28	10	5	11	2	0
49	EJ	1	28	10	5	11	2	0
49	EL	1	28	10	5	11	2	0
49	EN	1	28	10	5	11	2	0
49	FB	1	28	10	5	11	2	0
49	FD	1	28	10	5	11	2	0
49	FF	1	28	10	5	11	2	0
49	FH	1	28	10	5	11	2	0
49	FJ	1	28	10	5	11	2	0
49	FL	1	28	10	5	11	2	0
49	FN	1	28	10	5	11	2	0
49	GB	1	28	10	5	11	2	0
49	GD	1	28	10	5	11	2	0
49	GF	1	28	10	5	11	2	0
49	GH	1	28	10	5	11	2	0
49	GJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
49	GL	1	Total 28	C 10	N 5	O 11	P 2	0
49	GN	1	Total 28	C 10	N 5	O 11	P 2	0
49	HB	1	Total 28	C 10	N 5	O 11	P 2	0
49	HD	1	Total 28	C 10	N 5	O 11	P 2	0
49	HF	1	Total 28	C 10	N 5	O 11	P 2	0
49	HH	1	Total 28	C 10	N 5	O 11	P 2	0
49	HJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	HL	1	Total 28	C 10	N 5	O 11	P 2	0
49	HN	1	Total 28	C 10	N 5	O 11	P 2	0
49	IB	1	Total 28	C 10	N 5	O 11	P 2	0
49	ID	1	Total 28	C 10	N 5	O 11	P 2	0
49	IF	1	Total 28	C 10	N 5	O 11	P 2	0
49	IH	1	Total 28	C 10	N 5	O 11	P 2	0
49	IJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	IL	1	Total 28	C 10	N 5	O 11	P 2	0
49	IN	1	Total 28	C 10	N 5	O 11	P 2	0
49	JB	1	Total 28	C 10	N 5	O 11	P 2	0
49	JD	1	Total 28	C 10	N 5	O 11	P 2	0
49	JF	1	Total 28	C 10	N 5	O 11	P 2	0
49	JH	1	Total 28	C 10	N 5	O 11	P 2	0
49	JJ	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
49	JL	1	Total 28	C 10	N 5	O 11	P 2	0
49	JN	1	Total 28	C 10	N 5	O 11	P 2	0
49	KB	1	Total 28	C 10	N 5	O 11	P 2	0
49	KD	1	Total 28	C 10	N 5	O 11	P 2	0
49	KF	1	Total 28	C 10	N 5	O 11	P 2	0
49	KH	1	Total 28	C 10	N 5	O 11	P 2	0
49	KJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	KL	1	Total 28	C 10	N 5	O 11	P 2	0
49	KN	1	Total 28	C 10	N 5	O 11	P 2	0
49	LB	1	Total 28	C 10	N 5	O 11	P 2	0
49	LD	1	Total 28	C 10	N 5	O 11	P 2	0
49	LF	1	Total 28	C 10	N 5	O 11	P 2	0
49	LH	1	Total 28	C 10	N 5	O 11	P 2	0
49	LJ	1	Total 28	C 10	N 5	O 11	P 2	0
49	LL	1	Total 28	C 10	N 5	O 11	P 2	0
49	LN	1	Total 28	C 10	N 5	O 11	P 2	0
49	MB	1	Total 28	C 10	N 5	O 11	P 2	0
49	MD	1	Total 28	C 10	N 5	O 11	P 2	0
49	MF	1	Total 28	C 10	N 5	O 11	P 2	0
49	MH	1	Total 28	C 10	N 5	O 11	P 2	0
49	MJ	1	Total 28	C 10	N 5	O 11	P 2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	ML	1	28	10	5	11	2	0
49	MN	1	28	10	5	11	2	0
49	NB	1	28	10	5	11	2	0
49	ND	1	28	10	5	11	2	0
49	NF	1	28	10	5	11	2	0
49	NH	1	28	10	5	11	2	0
49	NJ	1	28	10	5	11	2	0
49	NL	1	28	10	5	11	2	0
49	NN	1	28	10	5	11	2	0
49	OB	1	28	10	5	11	2	0
49	OD	1	28	10	5	11	2	0
49	OF	1	28	10	5	11	2	0
49	OH	1	28	10	5	11	2	0
49	OJ	1	28	10	5	11	2	0
49	OL	1	28	10	5	11	2	0
49	ON	1	28	10	5	11	2	0
49	PB	1	28	10	5	11	2	0
49	PD	1	28	10	5	11	2	0
49	PF	1	28	10	5	11	2	0
49	PH	1	28	10	5	11	2	0
49	PJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	PL	1	28	10	5	11	2	0
49	PN	1	28	10	5	11	2	0
49	QB	1	28	10	5	11	2	0
49	QD	1	28	10	5	11	2	0
49	QF	1	28	10	5	11	2	0
49	QH	1	28	10	5	11	2	0
49	QJ	1	28	10	5	11	2	0
49	QL	1	28	10	5	11	2	0
49	QN	1	28	10	5	11	2	0
49	RB	1	28	10	5	11	2	0
49	RD	1	28	10	5	11	2	0
49	RF	1	28	10	5	11	2	0
49	RH	1	28	10	5	11	2	0
49	RJ	1	28	10	5	11	2	0
49	RL	1	28	10	5	11	2	0
49	RN	1	28	10	5	11	2	0
49	SB	1	28	10	5	11	2	0
49	SD	1	28	10	5	11	2	0
49	SF	1	28	10	5	11	2	0
49	SH	1	28	10	5	11	2	0
49	SJ	1	28	10	5	11	2	0

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	N	O	P	
49	SL	1	28	10	5	11	2	0
49	SN	1	28	10	5	11	2	0
49	TB	1	28	10	5	11	2	0
49	TD	1	28	10	5	11	2	0
49	TF	1	28	10	5	11	2	0
49	TH	1	28	10	5	11	2	0
49	TJ	1	28	10	5	11	2	0
49	TL	1	28	10	5	11	2	0
49	TN	1	28	10	5	11	2	0
49	UB	1	28	10	5	11	2	0
49	UD	1	28	10	5	11	2	0
49	UF	1	28	10	5	11	2	0
49	UH	1	28	10	5	11	2	0
49	UJ	1	28	10	5	11	2	0
49	UL	1	28	10	5	11	2	0
49	UN	1	28	10	5	11	2	0
49	VB	1	28	10	5	11	2	0
49	VD	1	28	10	5	11	2	0
49	VF	1	28	10	5	11	2	0
49	VH	1	28	10	5	11	2	0
49	VJ	1	28	10	5	11	2	0

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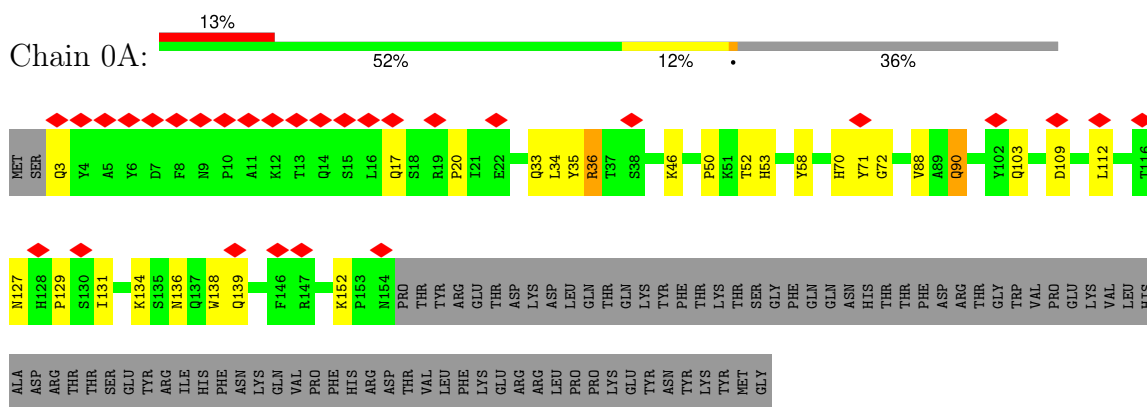
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Mol	Chain	Residues	Atoms					AltConf
49	VL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	VN	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WB	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WD	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WF	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WH	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WJ	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WL	1	Total	C	N	O	P	0
			28	10	5	11	2	
49	WN	1	Total	C	N	O	P	0
			28	10	5	11	2	

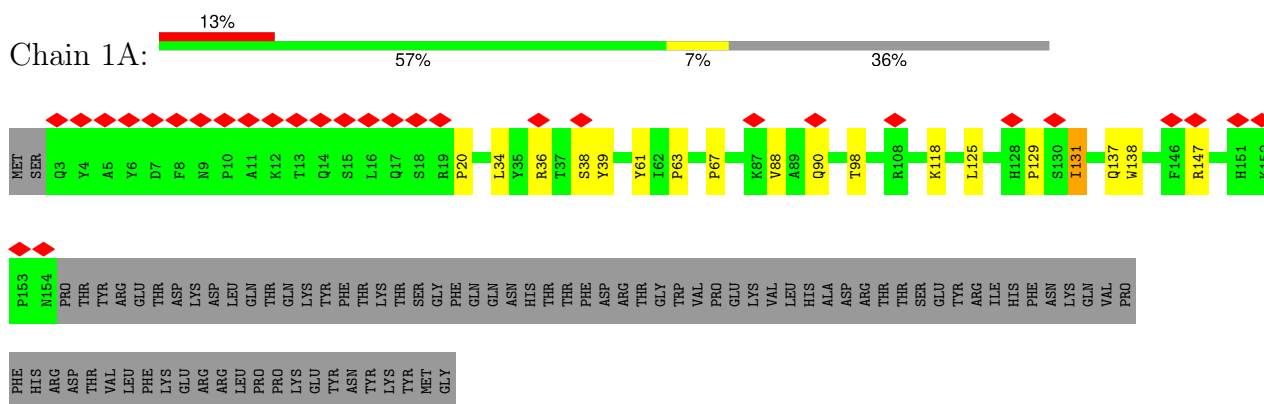
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

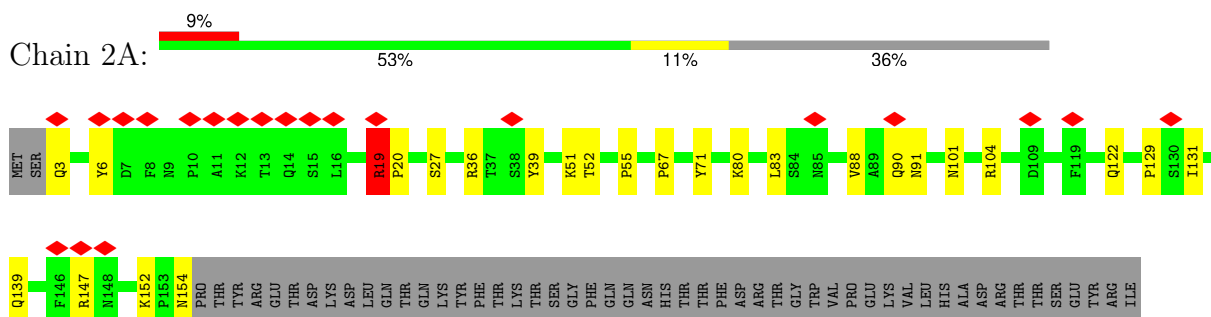
• Molecule 1: RIB27A



• Molecule 1: RIB27A



• Molecule 1: RIB27A



HIS
PHE
ASN
LYS
GLN
VAL
PRO
PHE
HIS
ASP
ARG
THR
VAL
LEU
PHE
LYS
GLU
ARG
ARG
LEU
PRO
PRO
LYS
GLY
TYR
ASN
TYR
LYS
MET
GLY

• Molecule 1: RIB27A

Chain 3A: 11% 55% 9% 36%

MET SER Q3 Y4 A5 Y6 D7 F8 N9 P10 A11 K12 T13 Q14 S15 L16 Q17 S18 P19 P20 Y35 R36 T37 S38 Y39 Q48 T52 Y71 G72 A73 V88 A89 Q90 N101 R104 L124 L125 H128 P129 S130 I131 K134 S135 N136 Q137 W138 F146 R147

K152 P153 N154 PRO THR ARG GLU THR ASP LYS ASP ASP LEU GLN THR GLN LYS TYR PHE THR LYS THR SER GLY PHE GLN ASN HIS THR THR PHE ASP ARG THR LYS TRP VAL PRO GLU LYS VAL LEU LEU HIS ALA ASP ARG THR THR SER TYR ARG ILE HIS PHE ASN LYS GLN VAL

PRO PHE HIS ARG ASP THR VAL PHE LEU PHE LYS ASP ARG LEU PRO PRO LYS GLU TYR ASN TYR LYS MET GLY

• Molecule 2: RIB38

Chain 0B: 5% 87% 11%

MET ALA GLN ALA C5 L12 E19 L22 A23 P24 N25 E30 K35 R38 E39 I44 S45 F46 D49 D49 ASN LYS L53 R58 T67 I71 F76 V82 D88 G99 D100 K143 E144 R145 M150 M171 K195 K196 G202 T203

N204 E205 V208 S212 T213 M215 E222 K223 I236 Q237 L241 P242 A247 N254 Q284 I288 I294 R304 R312 L320 I321 R322 K328 ARG

• Molecule 3: CFAM166B

Chain 0C: 8% 52% 8% 39%

MET TYR LEU GLN SER LYS THR THR ASN ASN ILE PRO GLY TYR THR GLY HIS ILE ILE PRO GLN GLU GLU HIS GLU ASP ILE LEU GLN ILE R31 I37 P38 Y43 I44 P45 R48 Y53 Y57 H69 H70 D74 L75 P76 P77 T84 V85 K86 Q92 V95

E99 I111 T112 S113 S114 G115 R122 Y125 ILE ASP PRO GLY SER ILE ILE ILE TYR LYS GLU LYS GLU ILE GLN PRO GLU CYS ASN TYR THR LEU THR TYR GLN P45 ALA CYS LYS TYR ALA TYR SER ASN

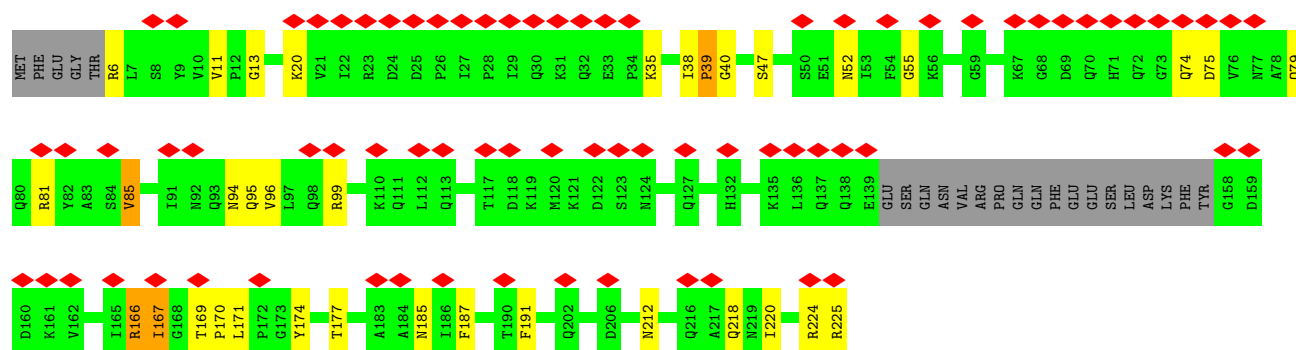
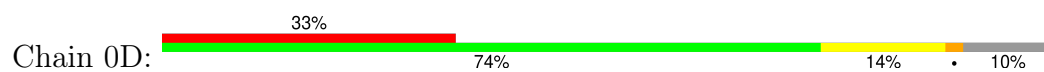
• Molecule 3: CFAM166B

Chain 1C: 8% 51% 10% 39%

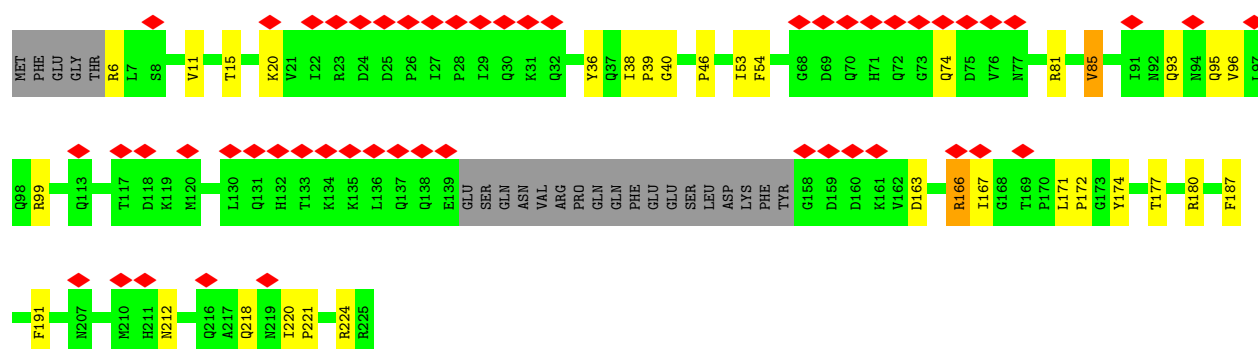
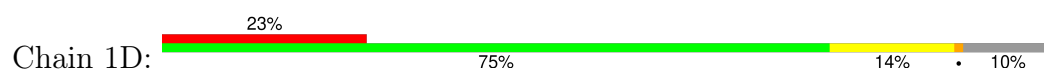
MET TYR LEU GLN SER LYS THR THR ASN ASN ILE PRO GLY TYR THR GLY HIS ILE ILE PRO GLN GLU GLU HIS GLU ASP ILE LEU GLN ILE R31 I37 I44 P45 R48 N51 N52 Y53 Y57 Y63 D74 R80 Y81 T82 S83 T84 T85 K86 K87 D91 Q92

K96 R102 A109 S114 G115 Y116 L121 R122 Y125 ILE ASP PRO GLY SER ILE ILE ILE TYR LYS GLU LYS GLU ILE GLN PRO GLU ALA PRO PRO GLU CYS ASN LEU TYR TYR GLN GLU ALA CYS LYS TYR ALA TYR SER ASN

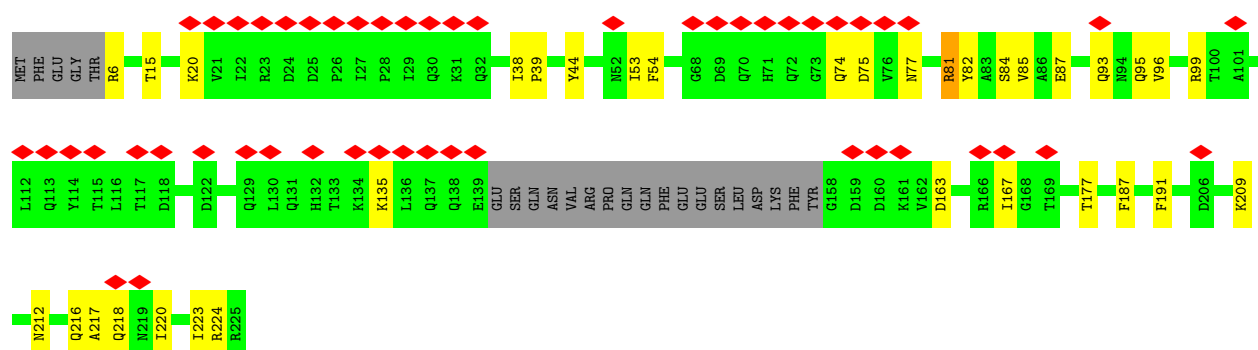
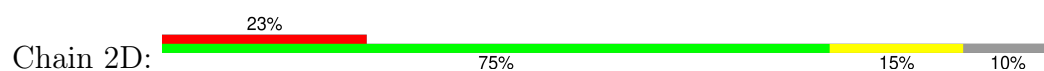
• Molecule 4: CFAM166A



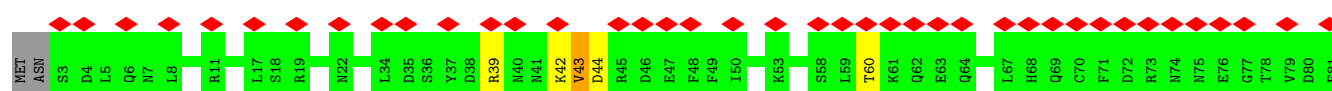
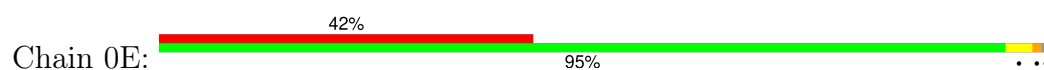
• Molecule 4: CFAM166A

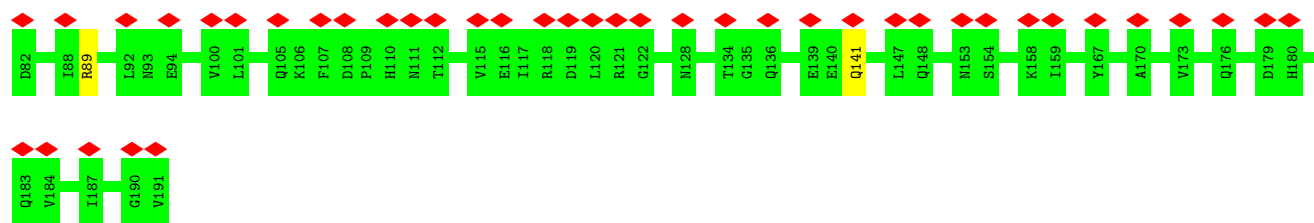


• Molecule 4: CFAM166A



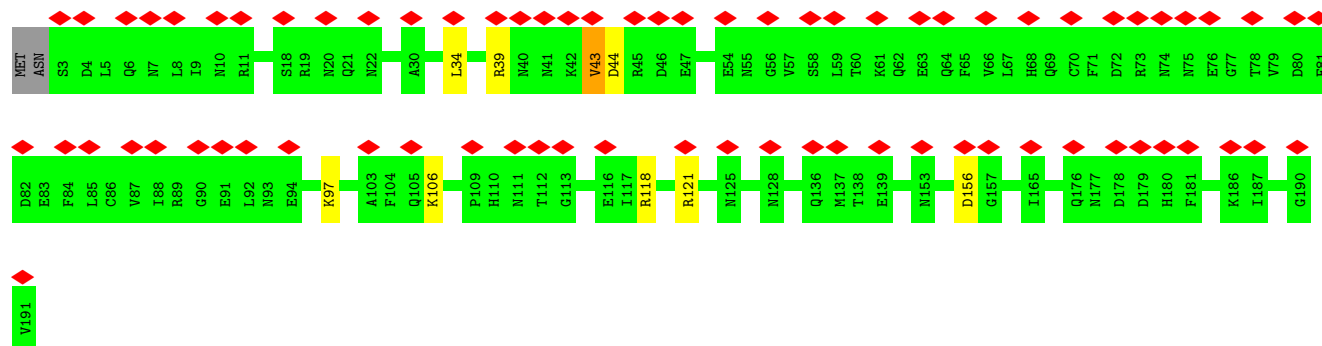
• Molecule 5: RIB22





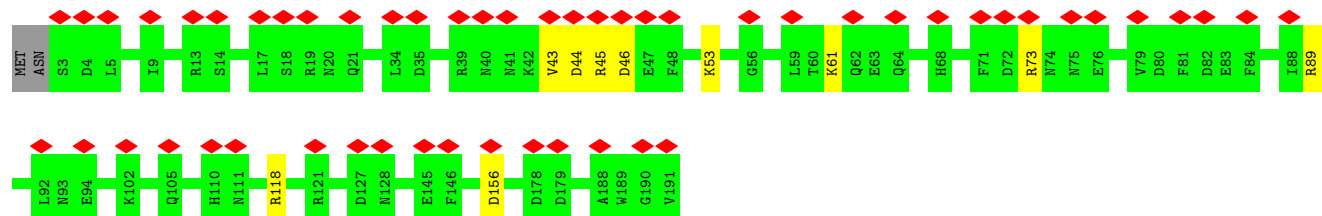
• Molecule 5: RIB22

Chain 1E: 38% 94%



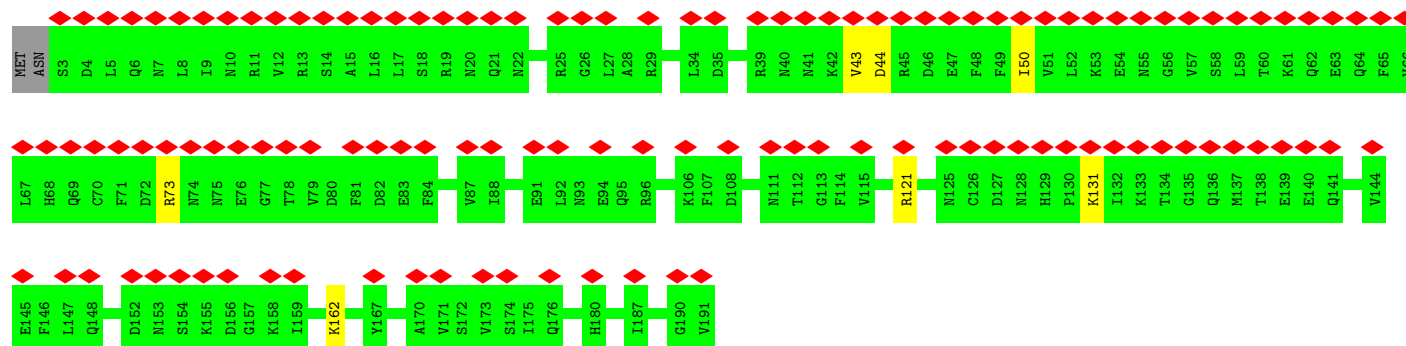
• Molecule 5: RIB22

Chain 2E: 28% 94% 5%



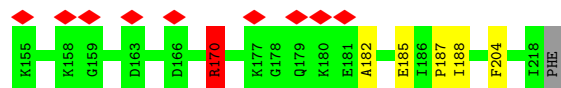
• Molecule 5: RIB22

Chain 3E: 64% 95%



• Molecule 6: CFAM166C

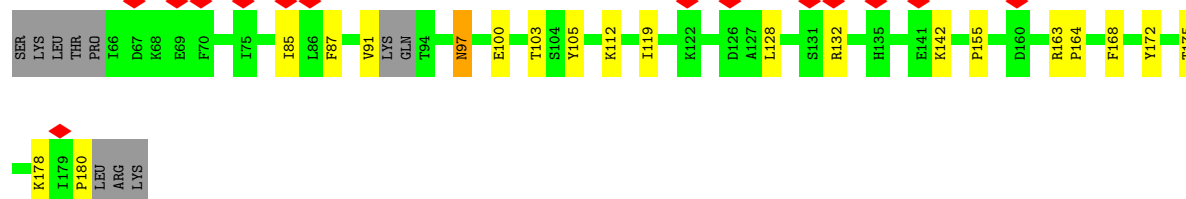
Chain 0F:



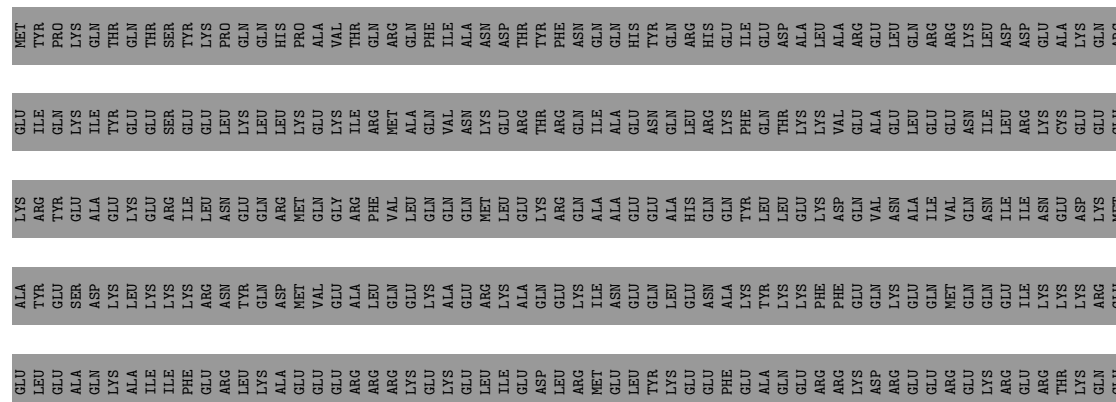
Chain 0G:



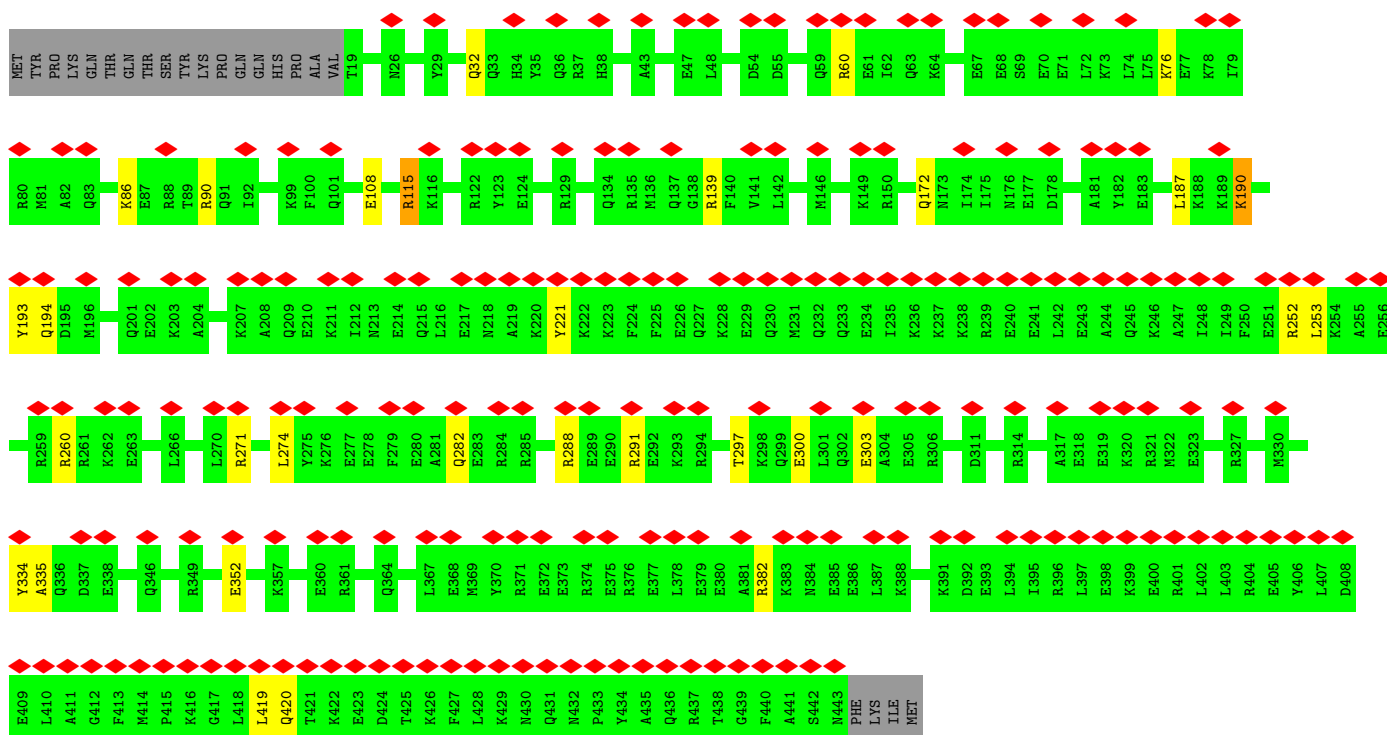
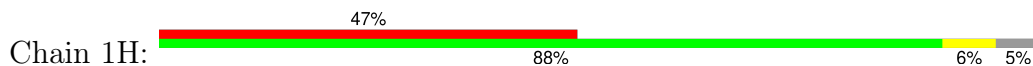
Chain 1G:



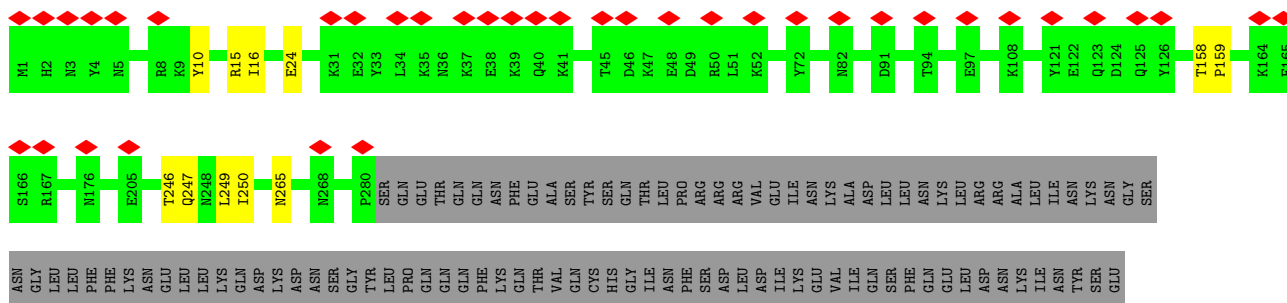
Chain 0H:

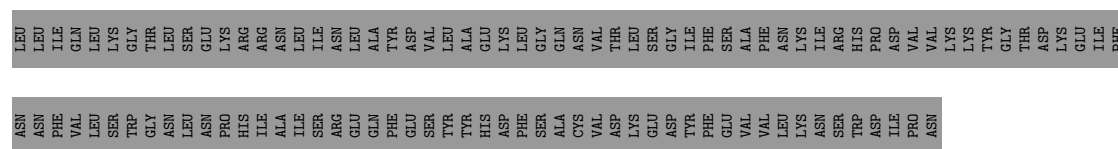


- Molecule 8: CFAP127

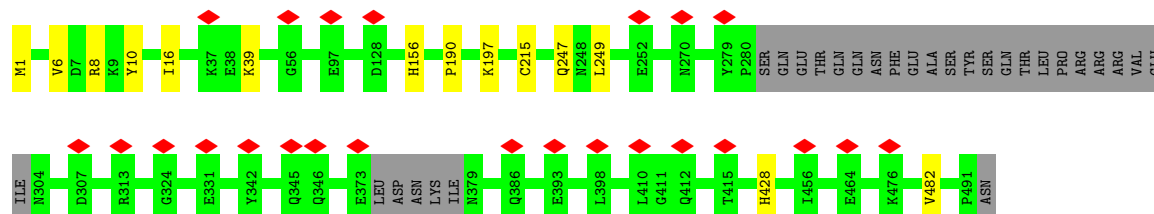
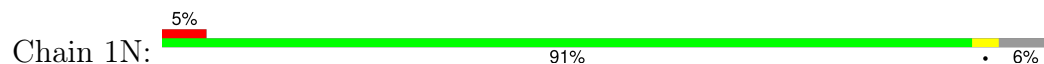


- Molecule 9: CFAP161A

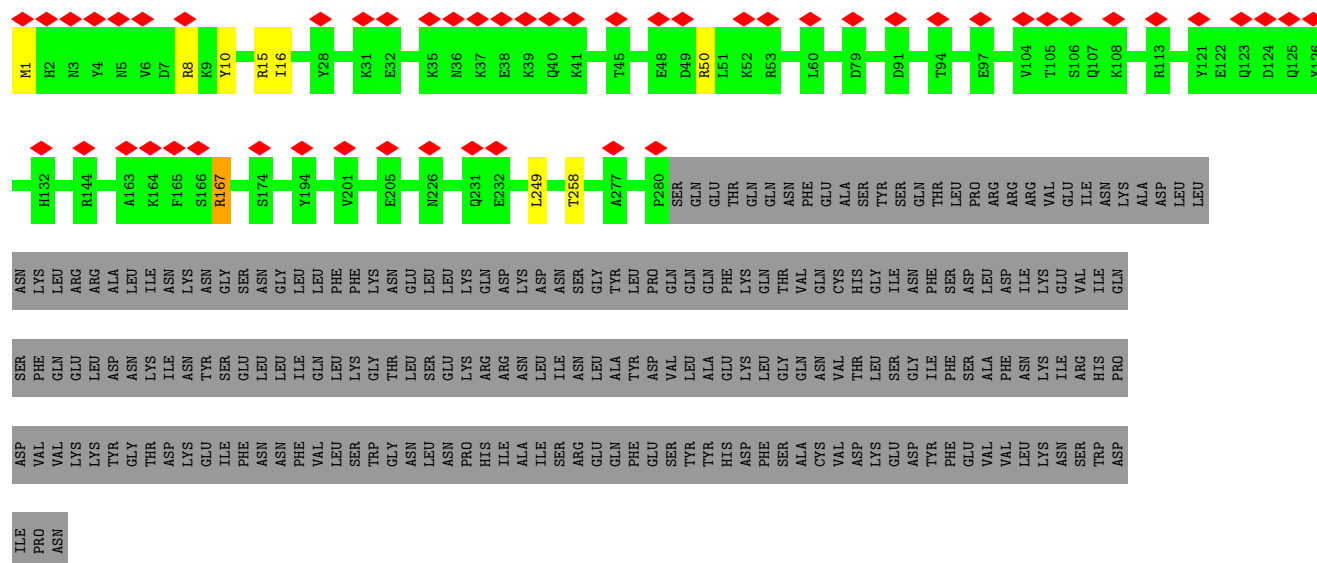




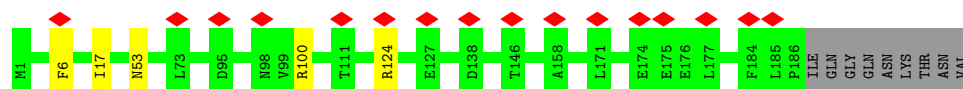
• Molecule 9: CFAP161A



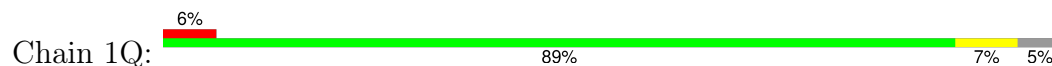
• Molecule 9: CFAP161A

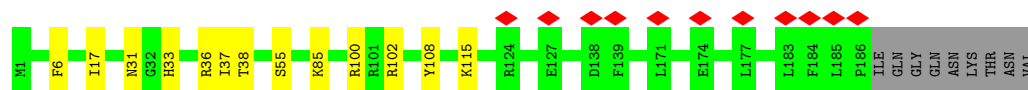


• Molecule 10: CFAP20

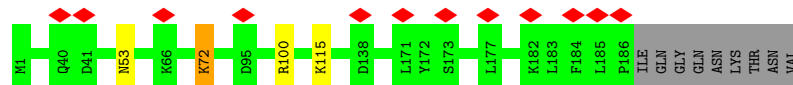
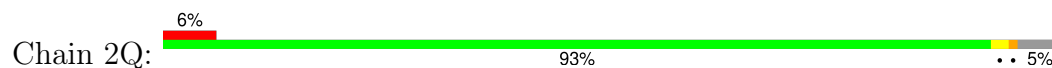


• Molecule 10: CFAP20





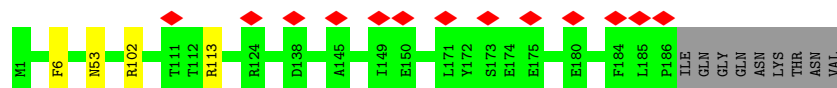
• Molecule 10: CFAP20



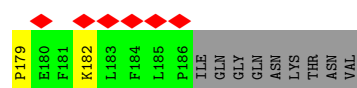
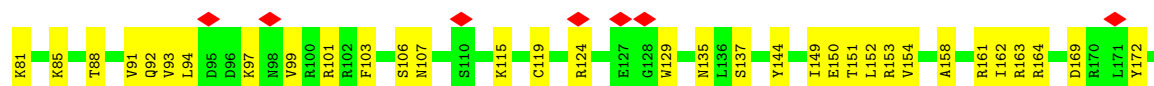
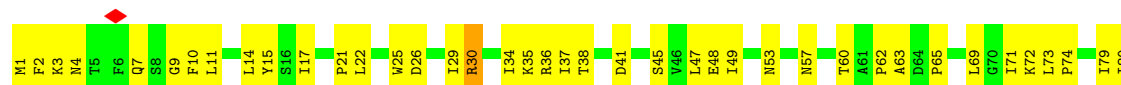
• Molecule 10: CFAP20



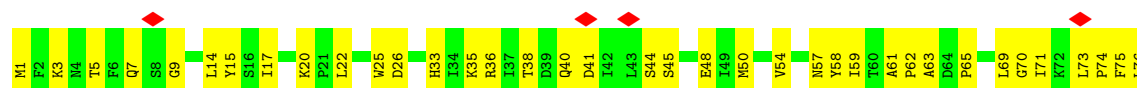
• Molecule 10: CFAP20

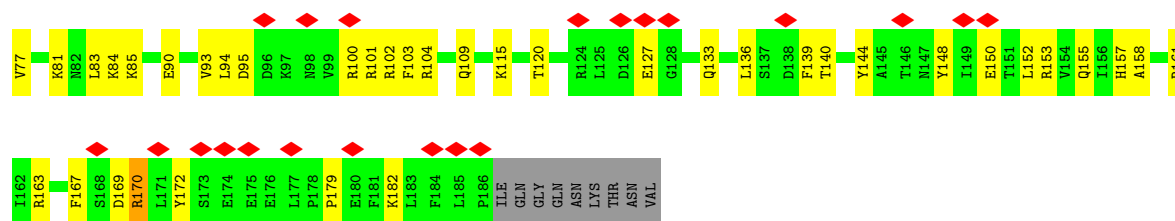


• Molecule 10: CFAP20

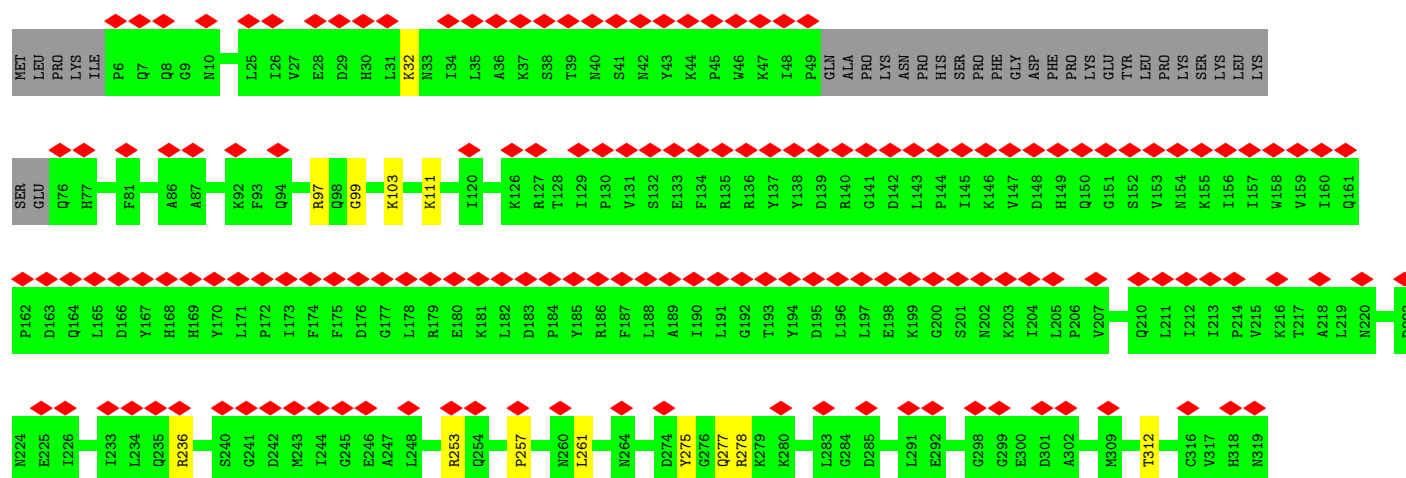
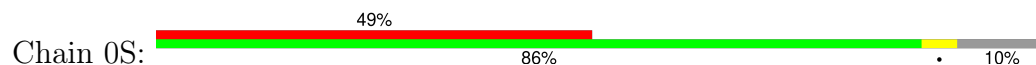


• Molecule 10: CFAP20

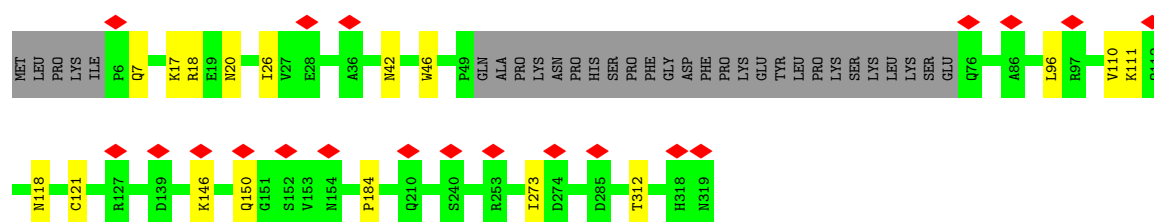
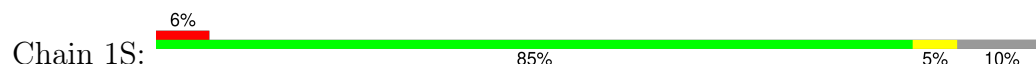




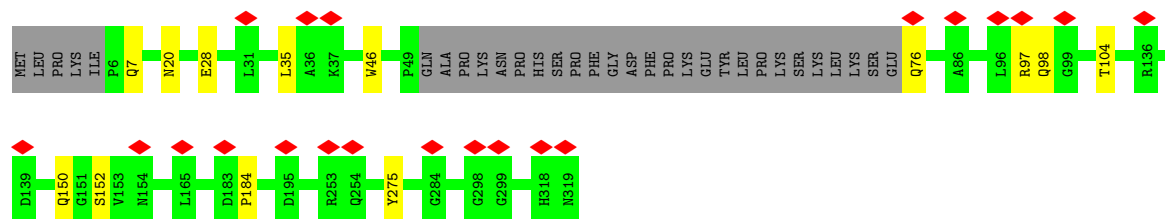
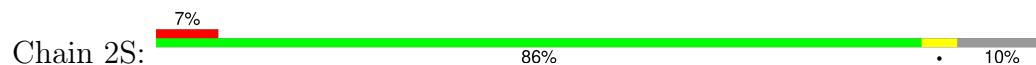
• Molecule 11: Parkin co-regulated protein PACRGA



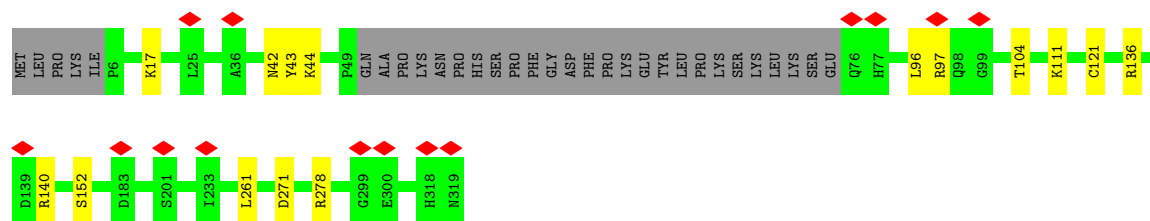
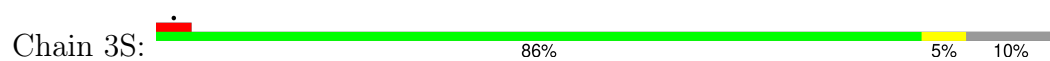
• Molecule 11: Parkin co-regulated protein PACRGA



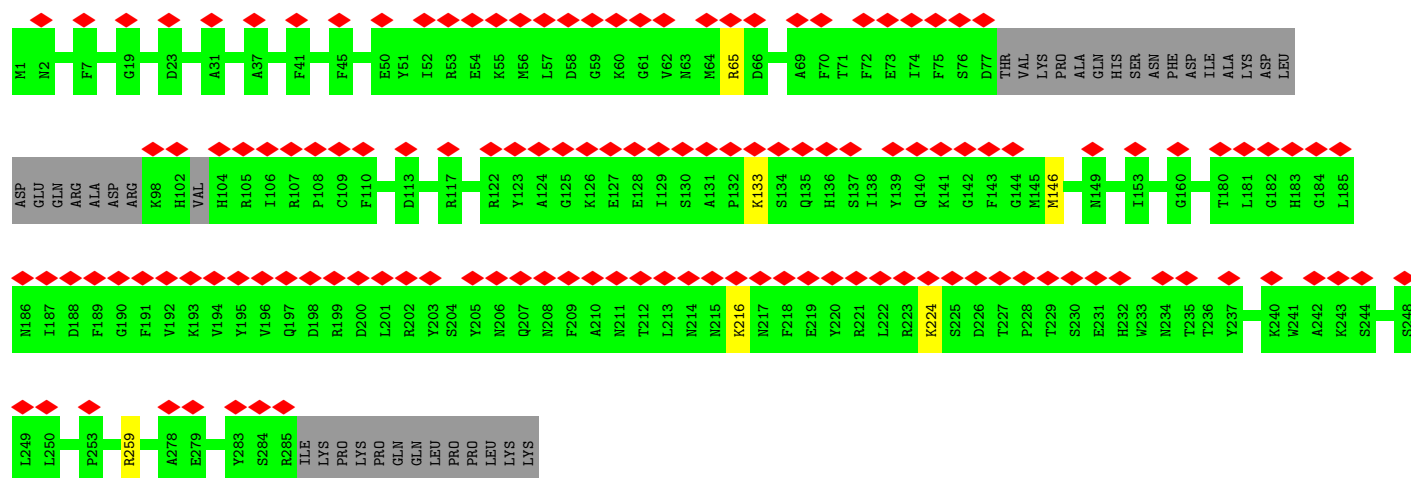
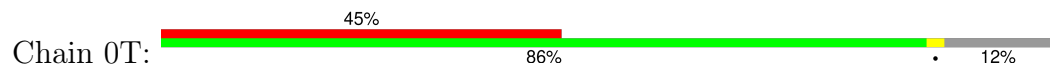
• Molecule 11: Parkin co-regulated protein PACRGA



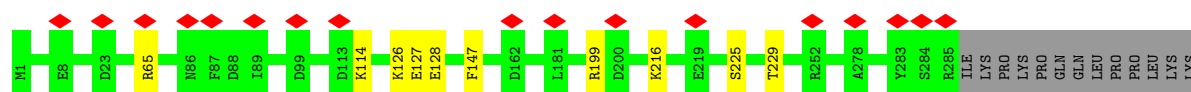
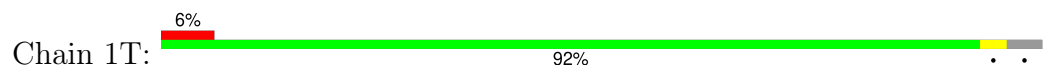
• Molecule 11: Parkin co-regulated protein PACRGA



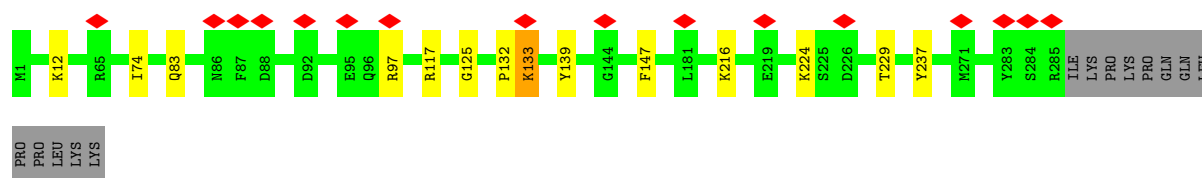
- Molecule 12: IJ34



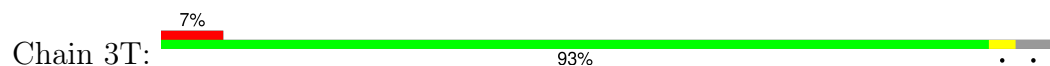
- Molecule 12: IJ34



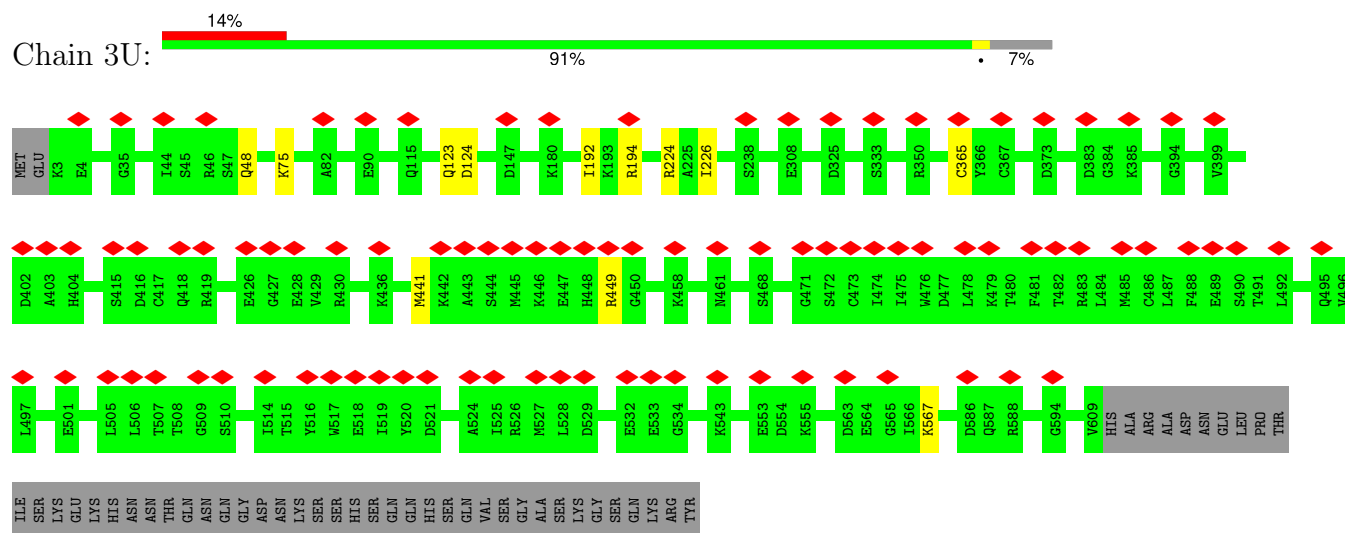
- Molecule 12: IJ34



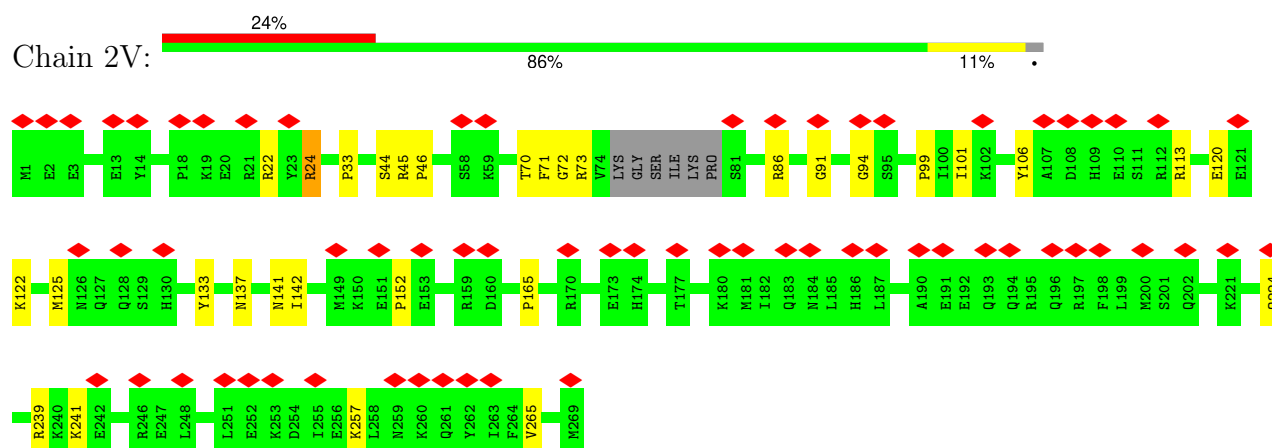
- Molecule 12: IJ34



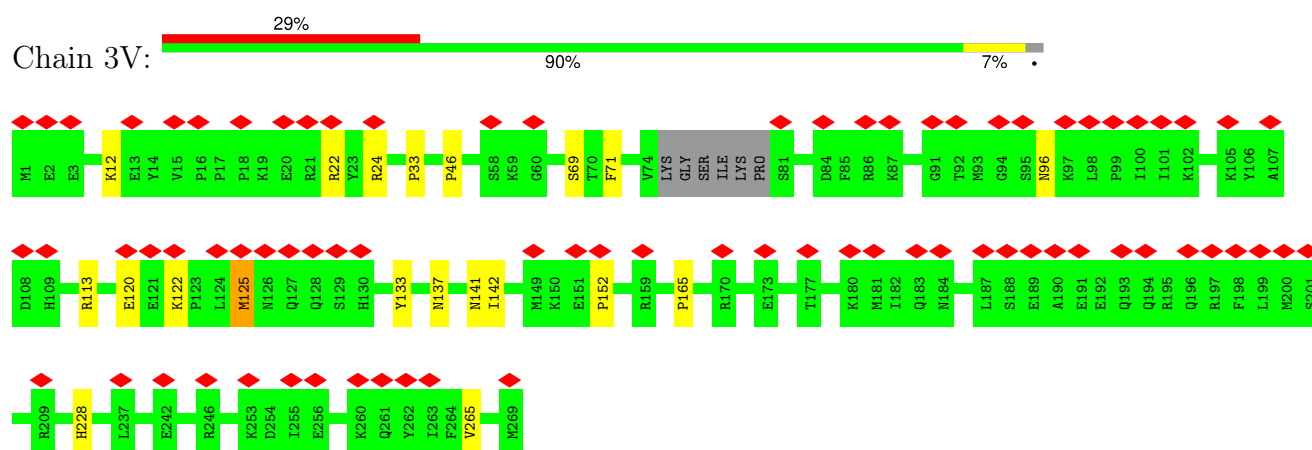
● Molecule 13: CFAP52A



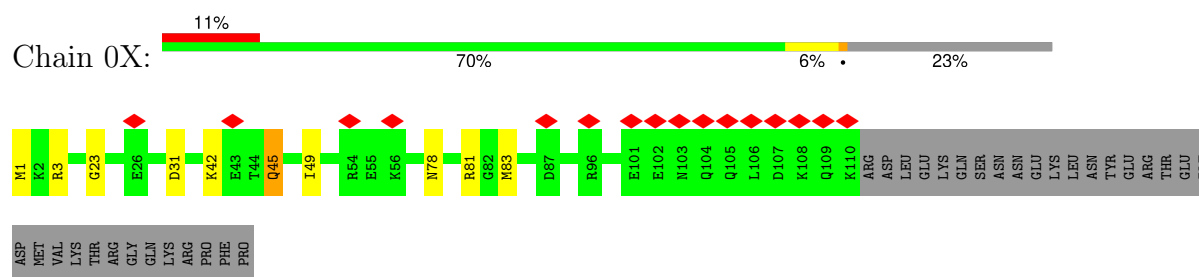
- Molecule 14: DNA polymerase delta C4-type zinc-finger protein



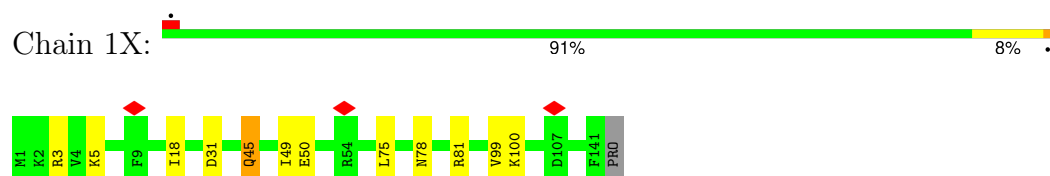
- Molecule 14: DNA polymerase delta C4-type zinc-finger protein



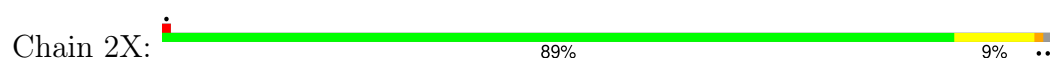
- Molecule 15: RIB43A protein

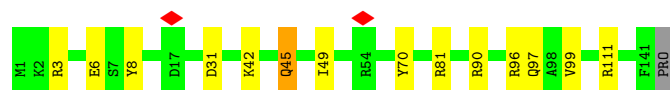


- Molecule 15: RIB43A protein

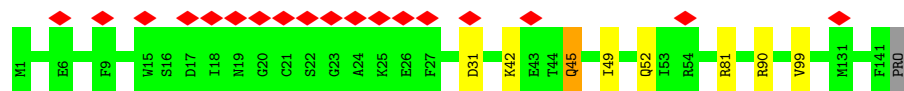


- Molecule 15: RIB43A protein

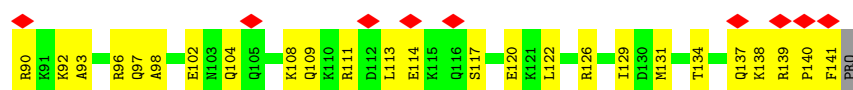




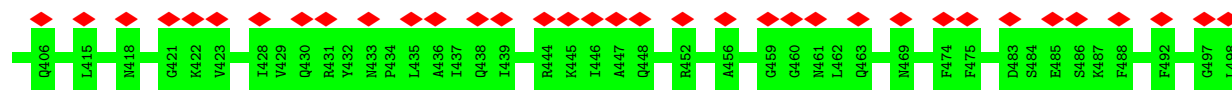
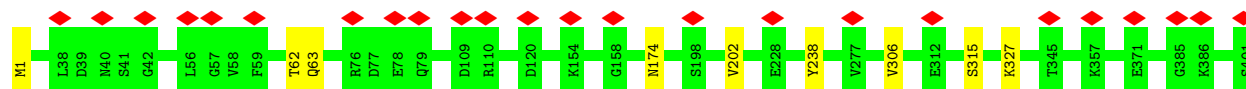
• Molecule 15: RIB43A protein



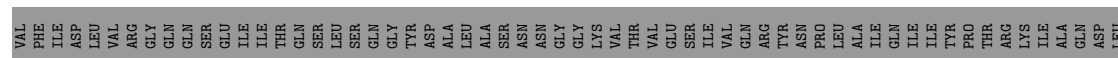
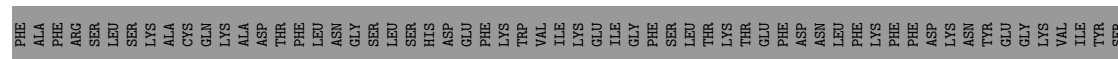
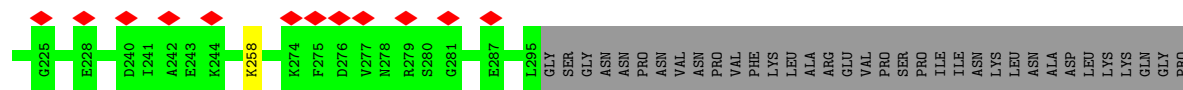
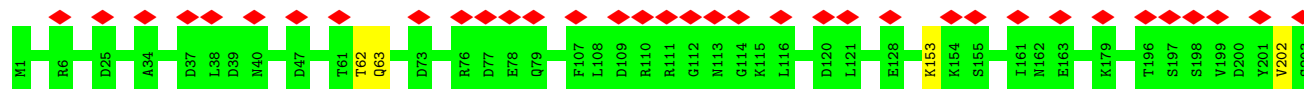
• Molecule 15: RIB43A protein



• Molecule 16: RIB57



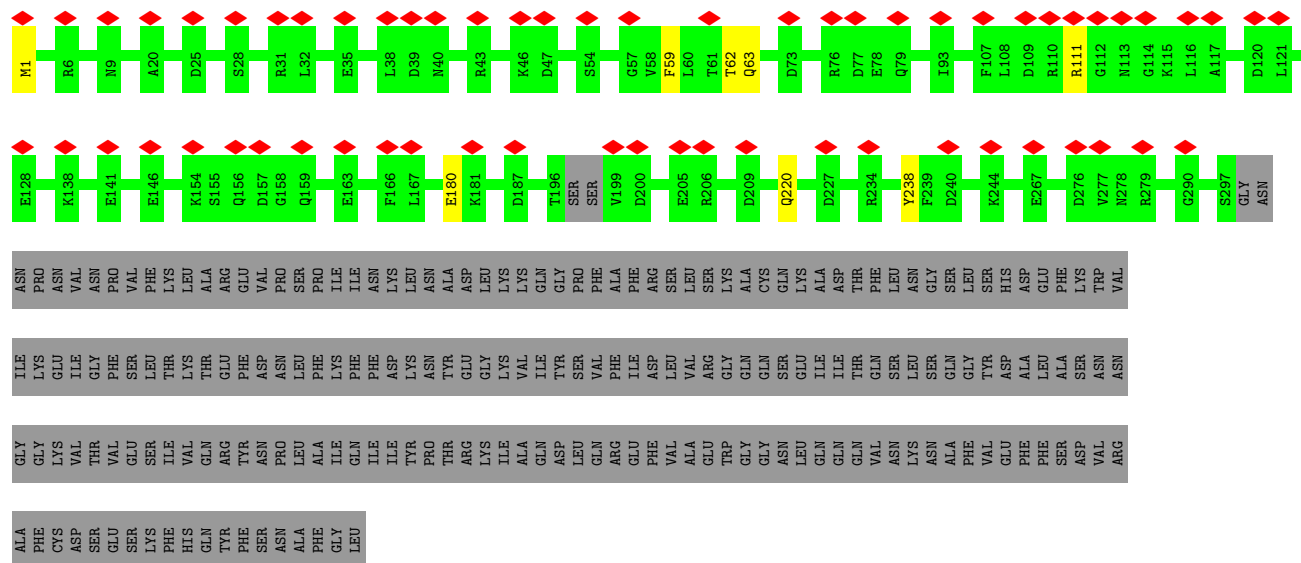
• Molecule 16: RIB57



GLN ARG
GLU PHE
VAL VAL
GLU GLU
TRP GLY
GLY GLY
ASN ASN
LEU LEU
GLN GLN
GLN GLN
VAL VAL
ASN ASN
LYS LYS
ASN ASN
ALA PHE
PHE VAL
GLU VAL
PHE PHE
PHE SER
SER ASP
VAL VAL
ARG ARG
ALA PHE
PHE CYS
ASP ASP
SER SER
GLU GLU
SER SER
LYS LYS
PHE PHE
HIS HIS
TYR TYR
PHE SER
SER ASN
ALA PHE
GLY GLY
LEU LEU

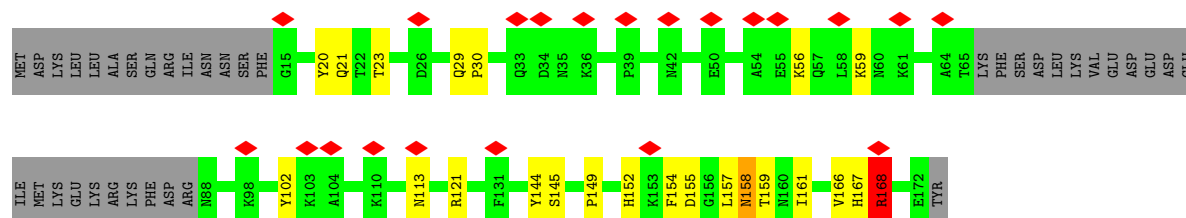
• Molecule 16: RIB57

Chain 3B: 12% 58% 41%



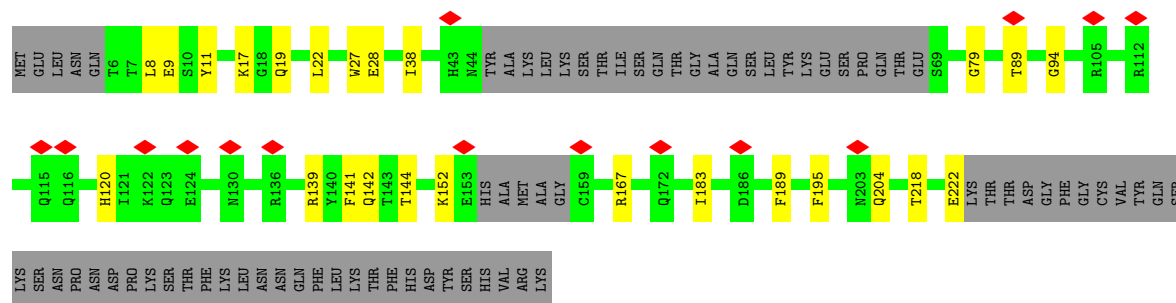
• Molecule 17: CFAP182A

Chain 1F: 12% 65% 12% 21%




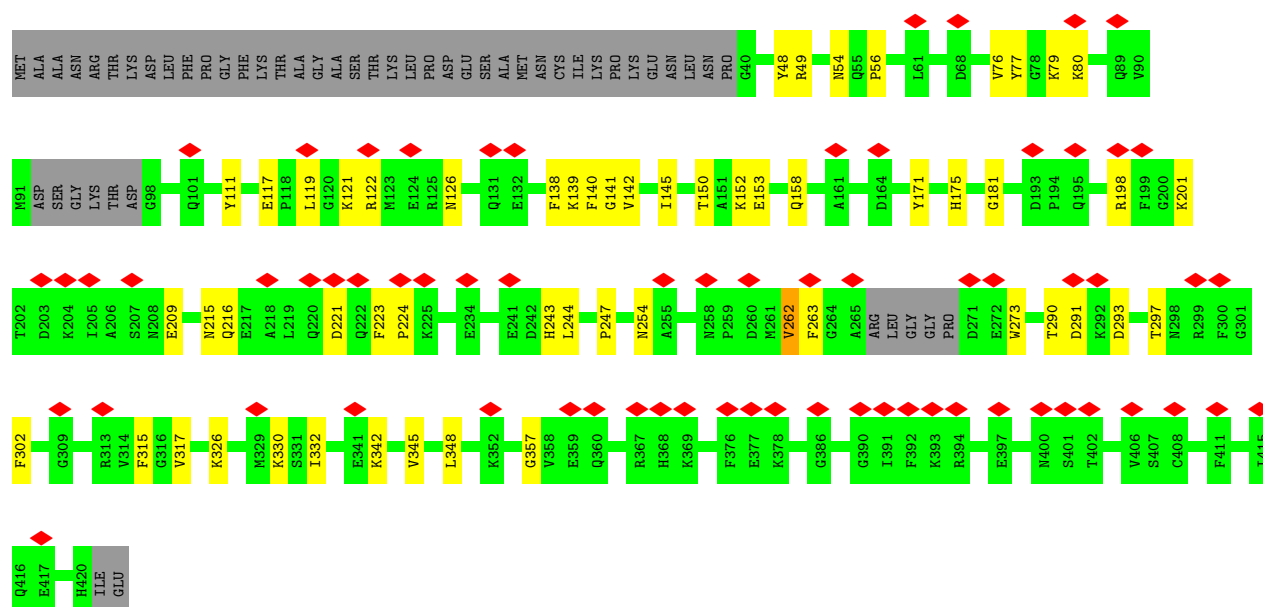
• Molecule 18: CFAP143

Chain 1I: 6% 62% 10% 29%



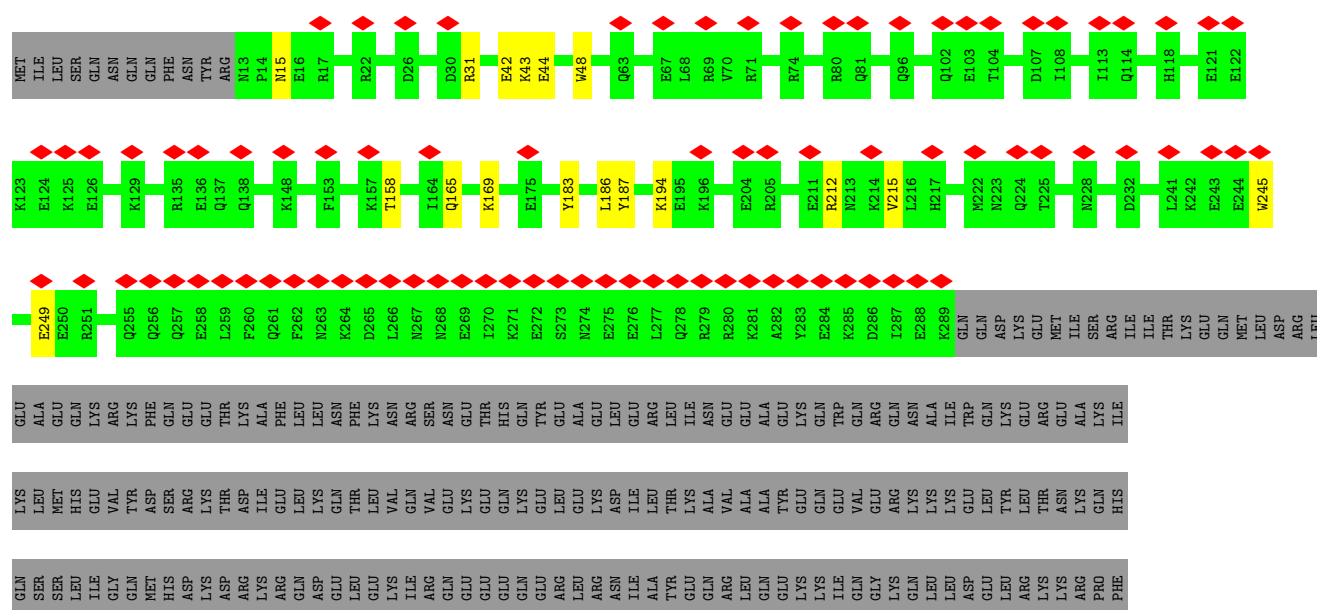
• Molecule 19: CFAP21A

Chain 1J: 



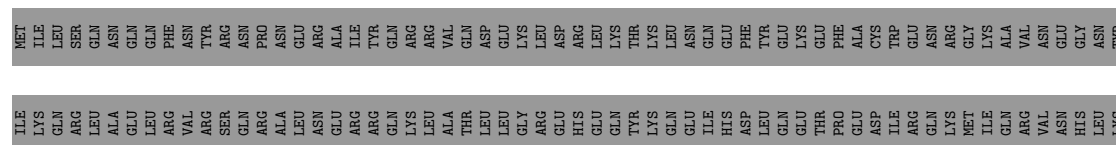
• Molecule 20: CFAP53

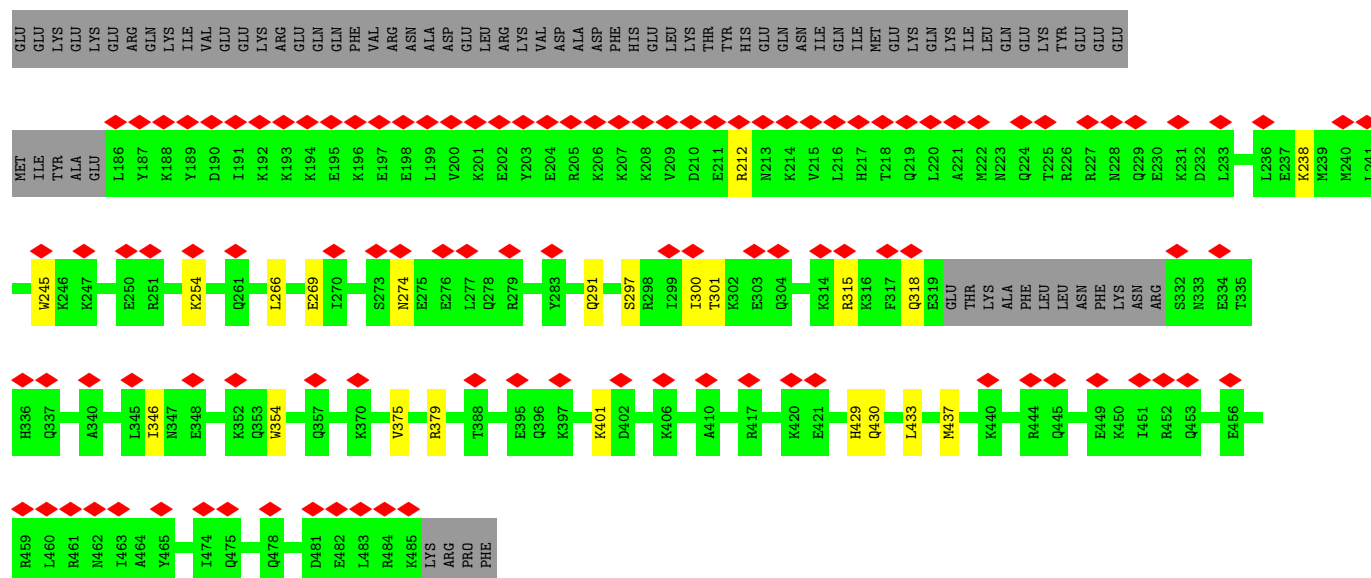
Chain 1K: 



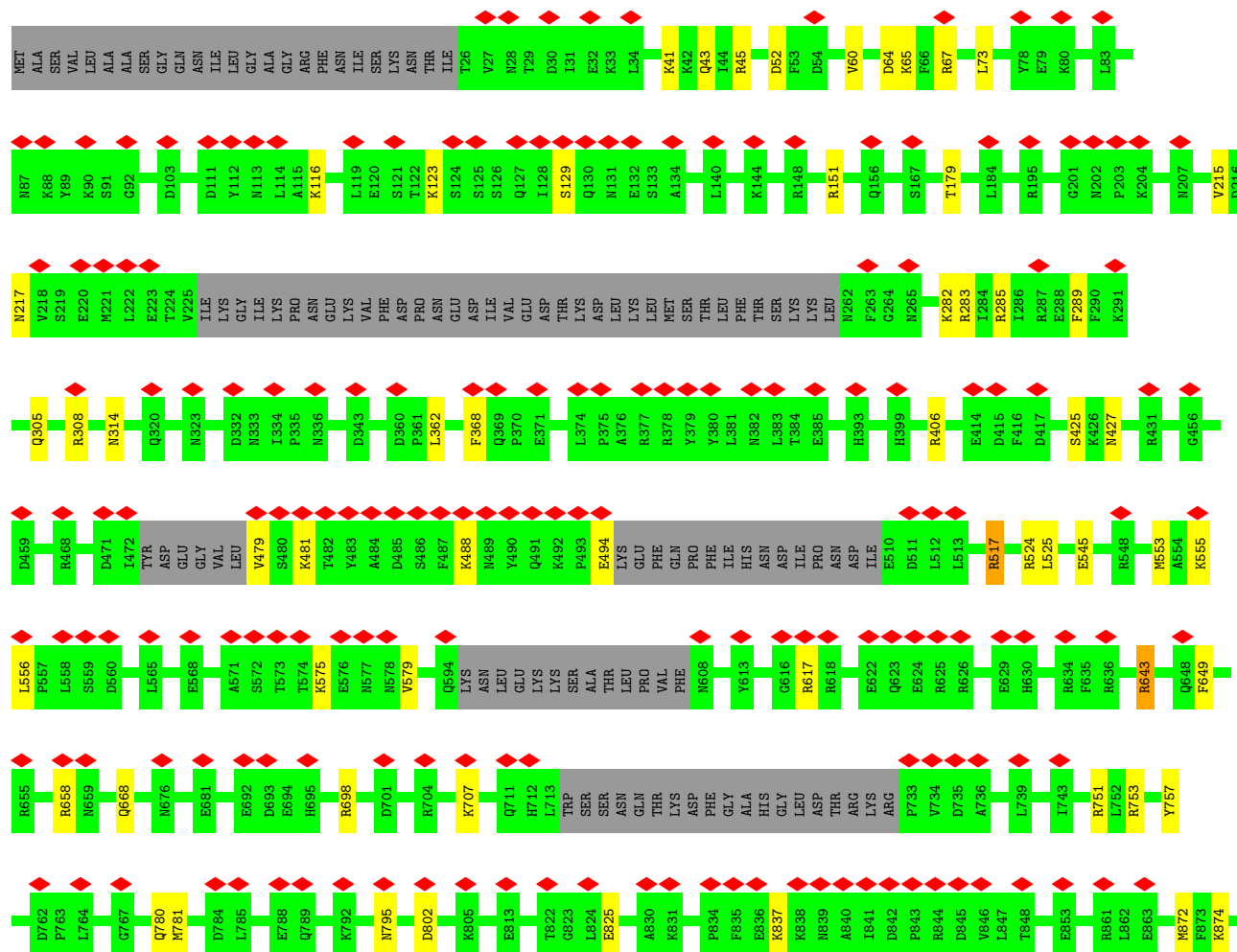
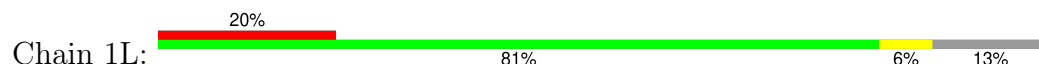
• Molecule 20: CFAP53

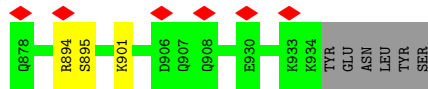
Chain 2K: 



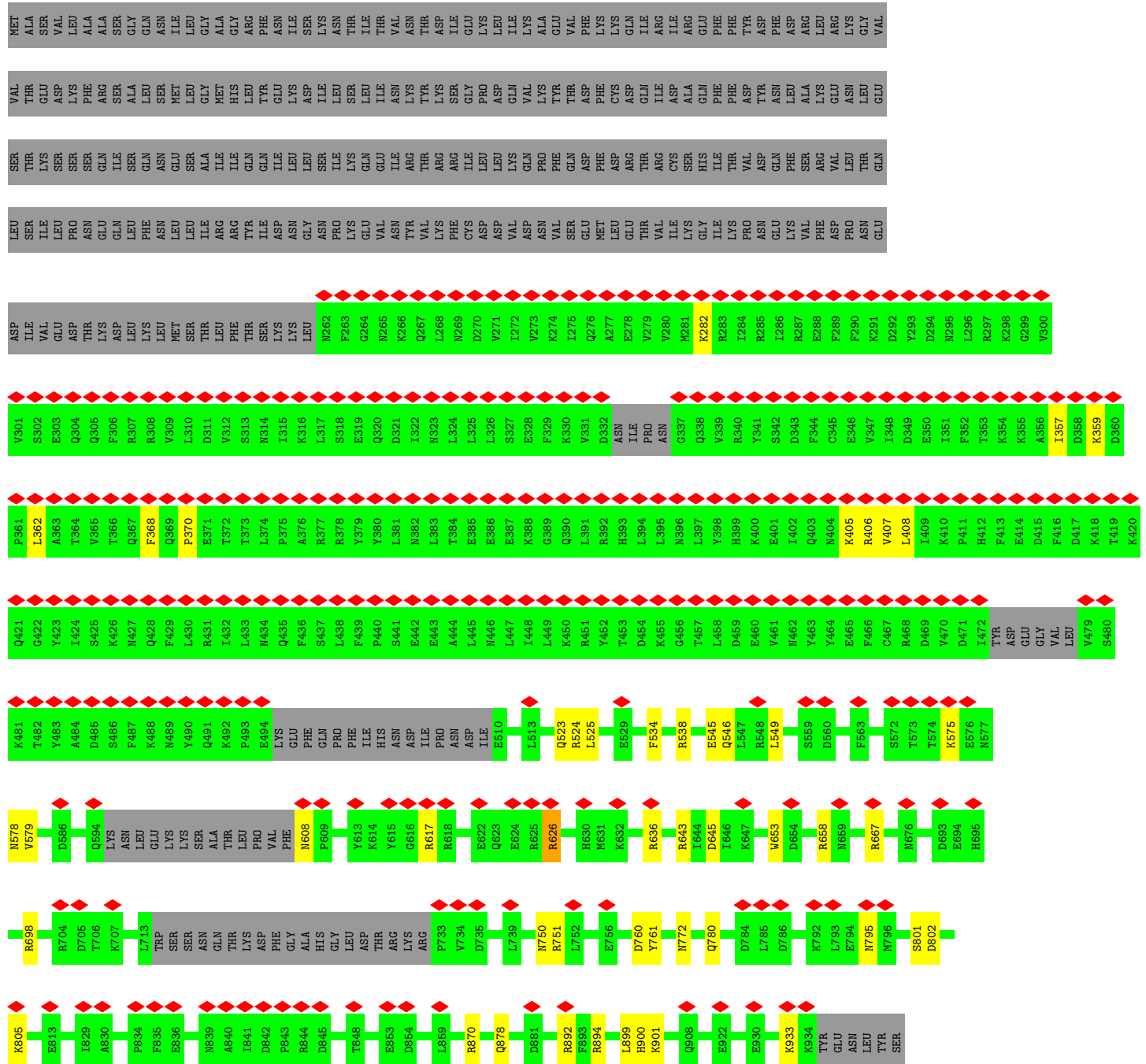


• Molecule 21: CFAP115





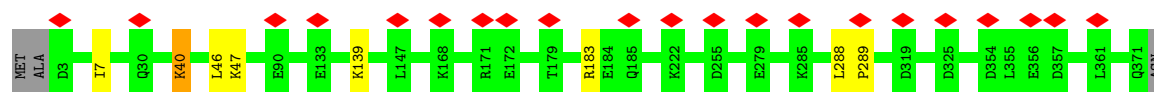
• Molecule 21: CFAP115



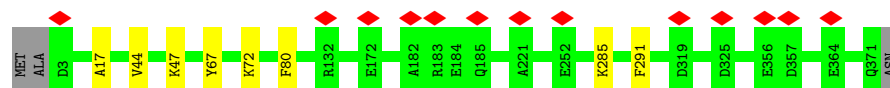
• Molecule 21: CFAP115



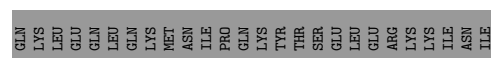
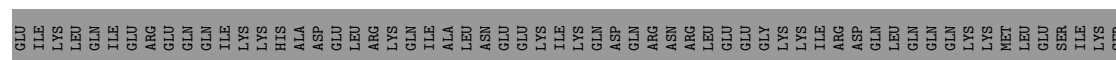
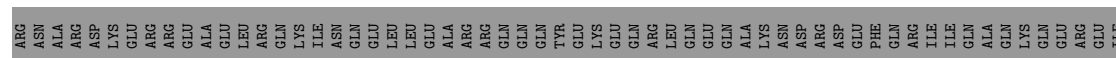
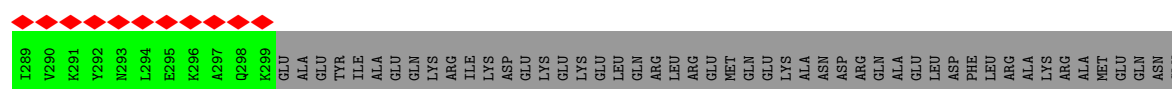
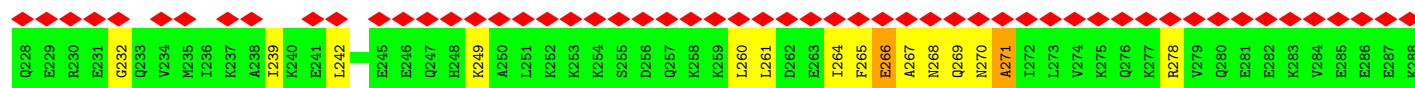
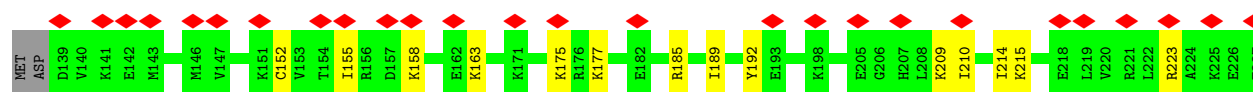
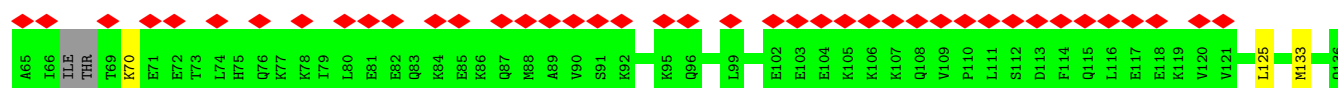
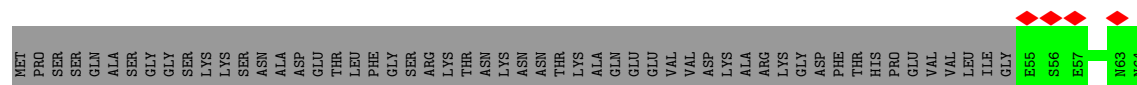
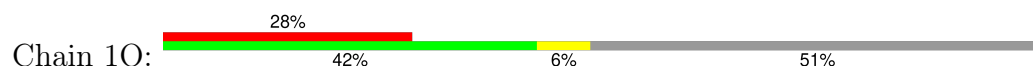




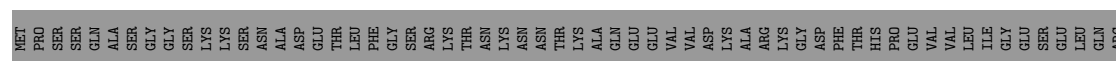
- Molecule 22: Nucleoside diphosphate kinase

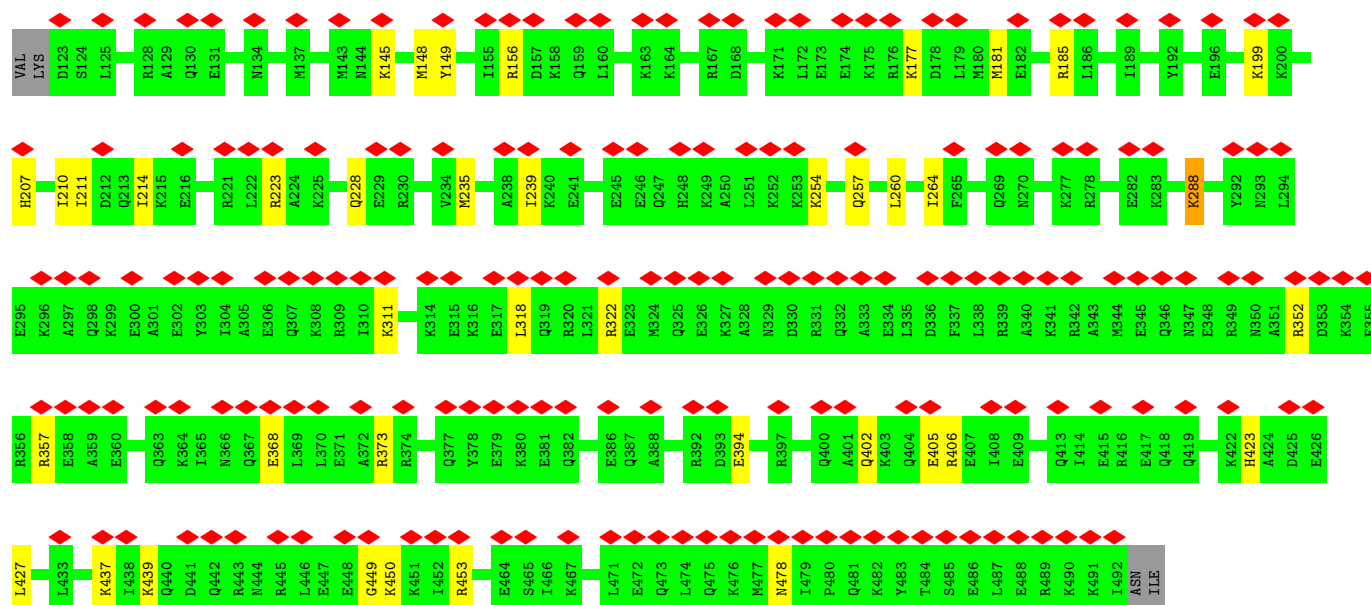


- Molecule 23: Cilia- and flagella-associated protein 45

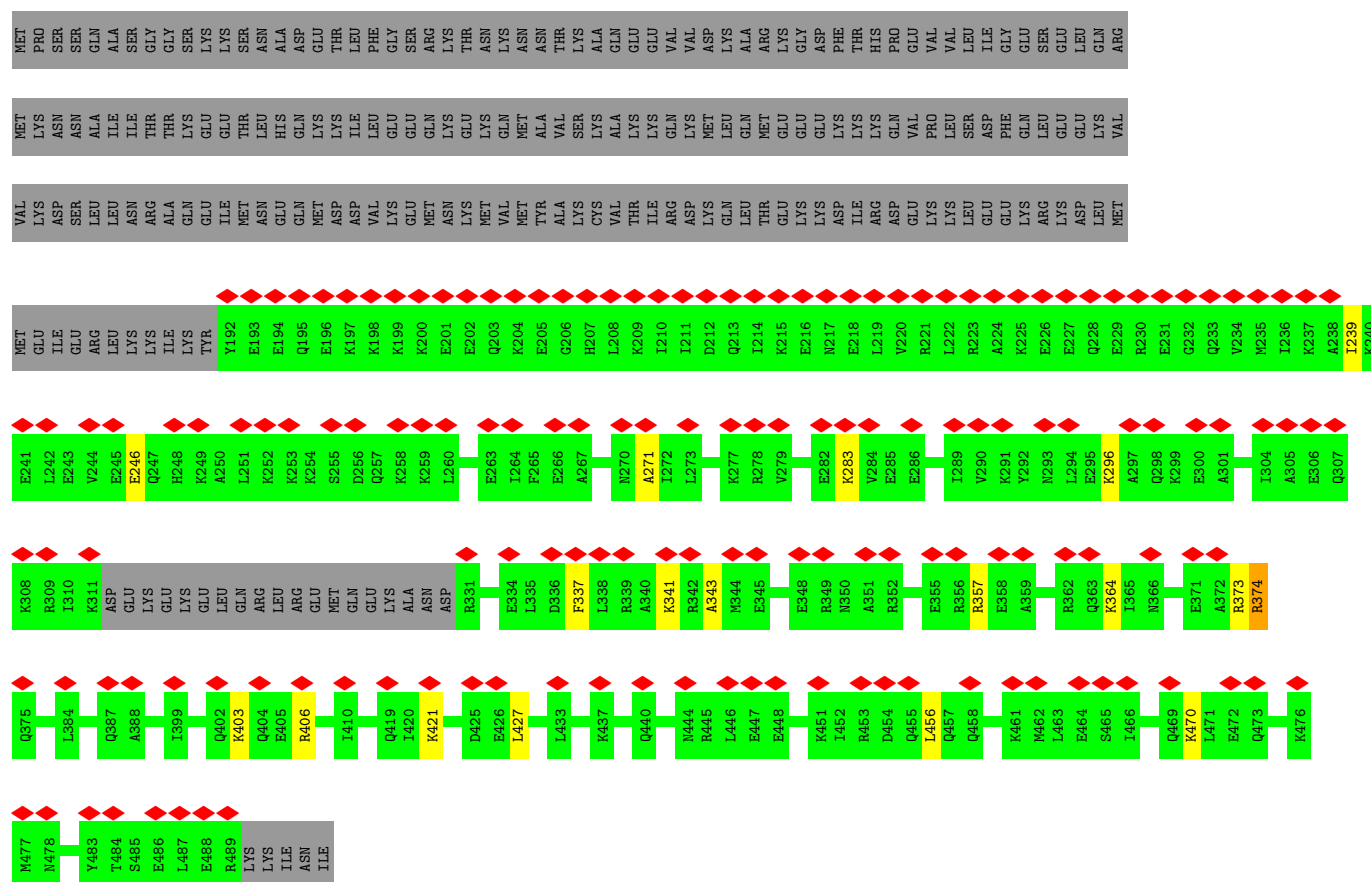


- Molecule 23: Cilia- and flagella-associated protein 45

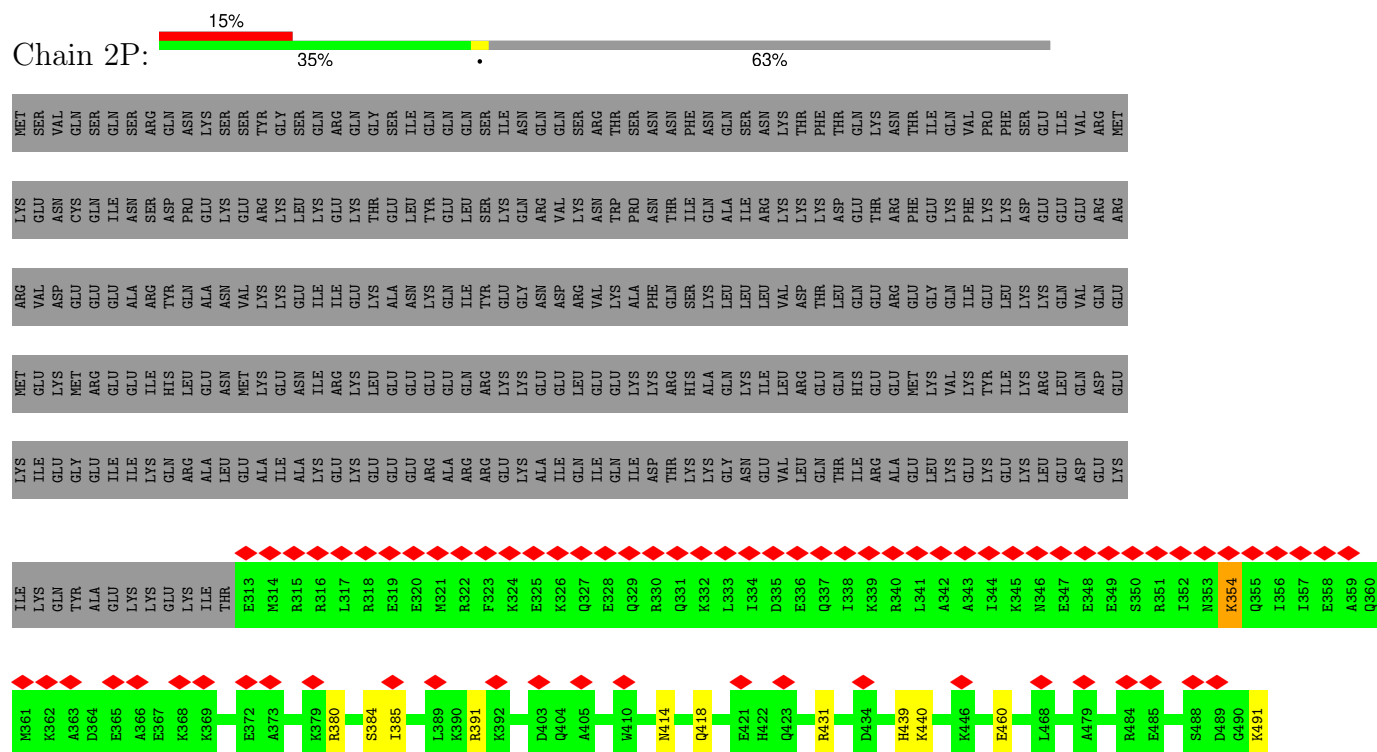


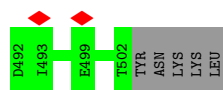


• Molecule 23: Cilia- and flagella-associated protein 45

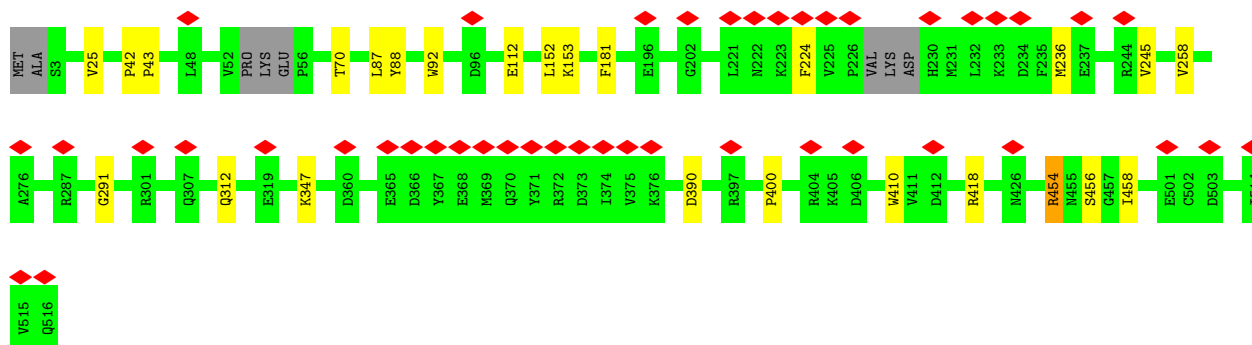


• Molecule 24: CFAP210

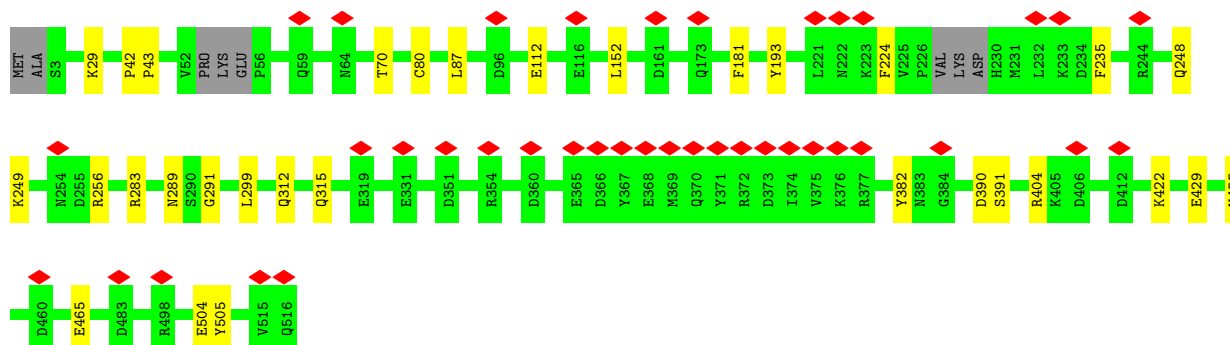
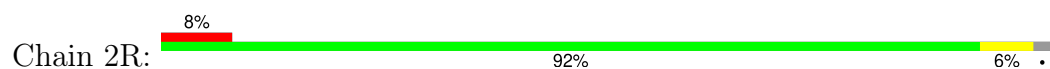




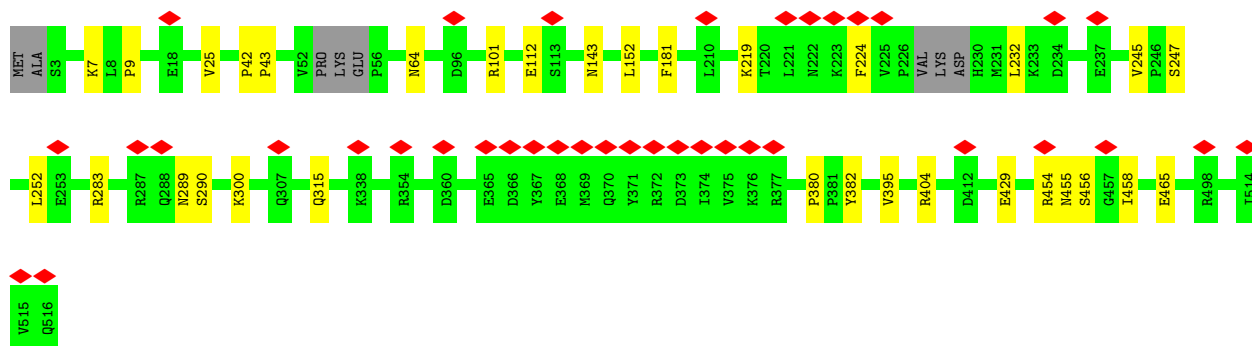
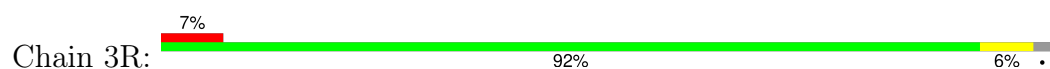
- Molecule 25: RIB72B



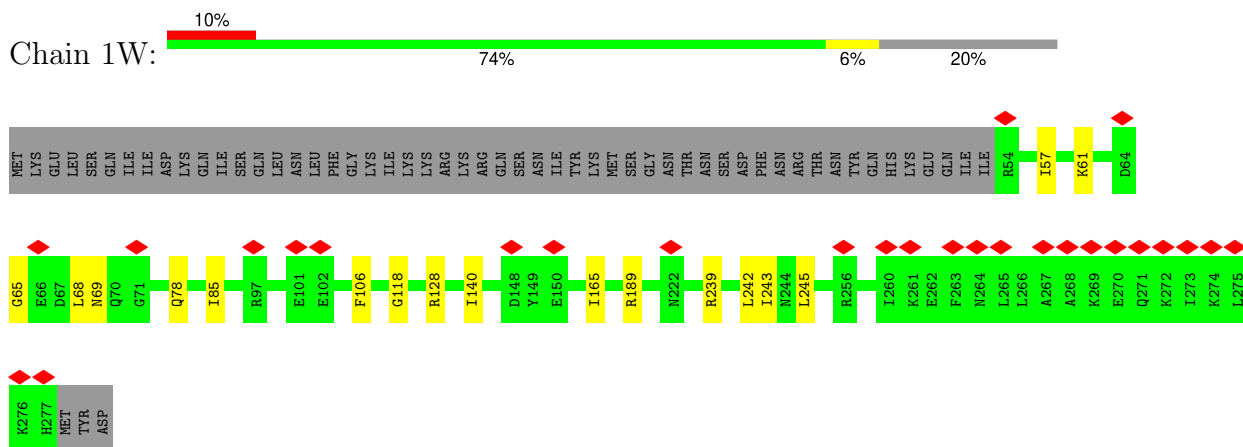
- Molecule 25: RIB72B



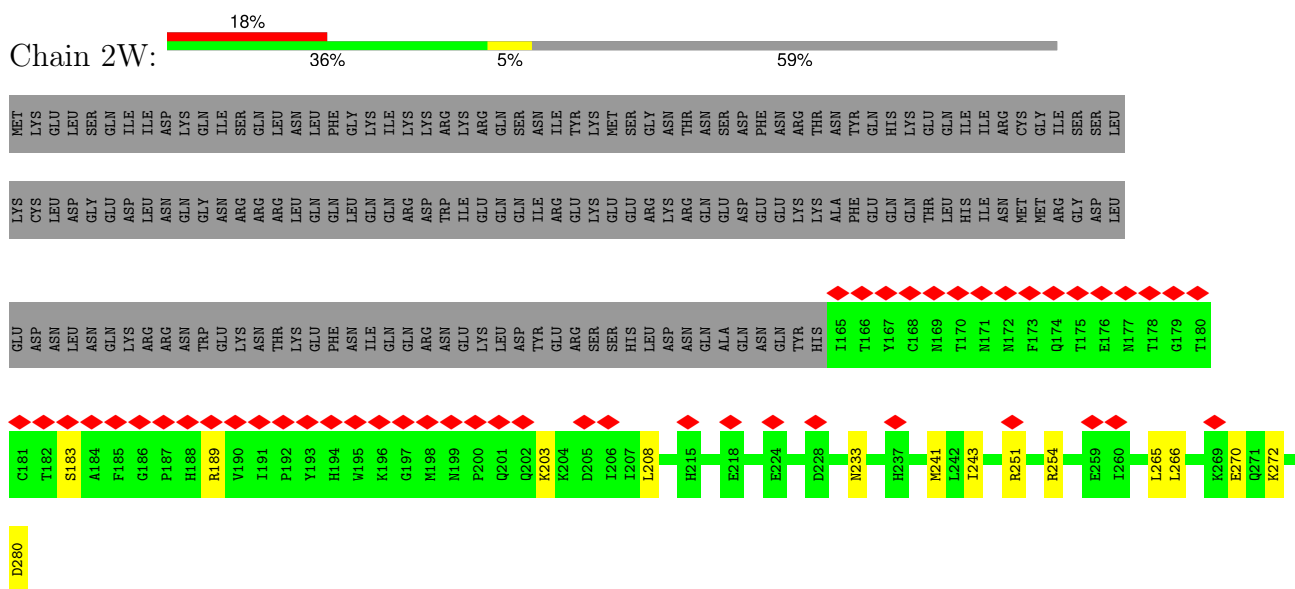
- Molecule 25: RIB72B



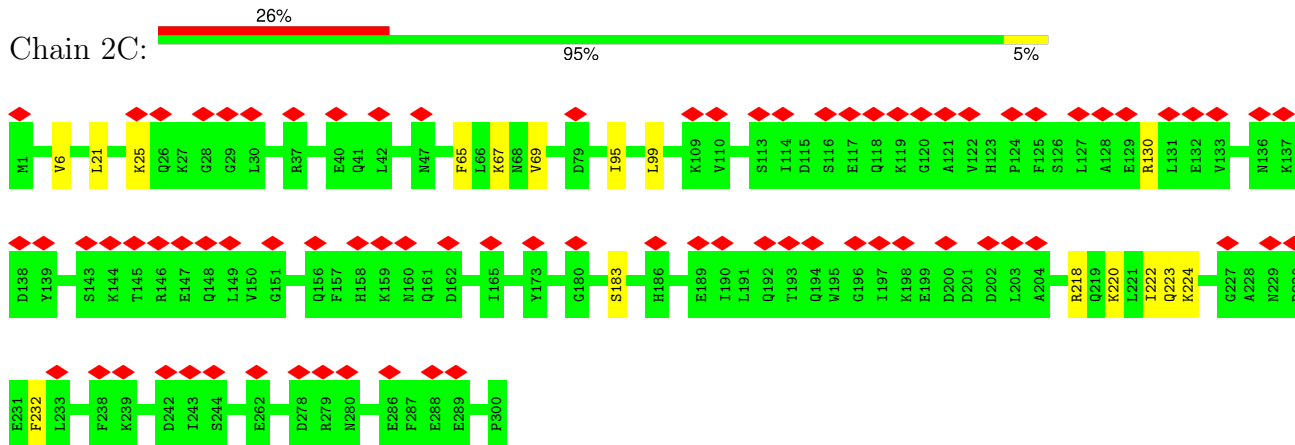
- Molecule 26: Protofilament ribbon protein



- Molecule 26: Protofilament ribbon protein



- Molecule 27: RIB35



- Molecule 27: RIB35

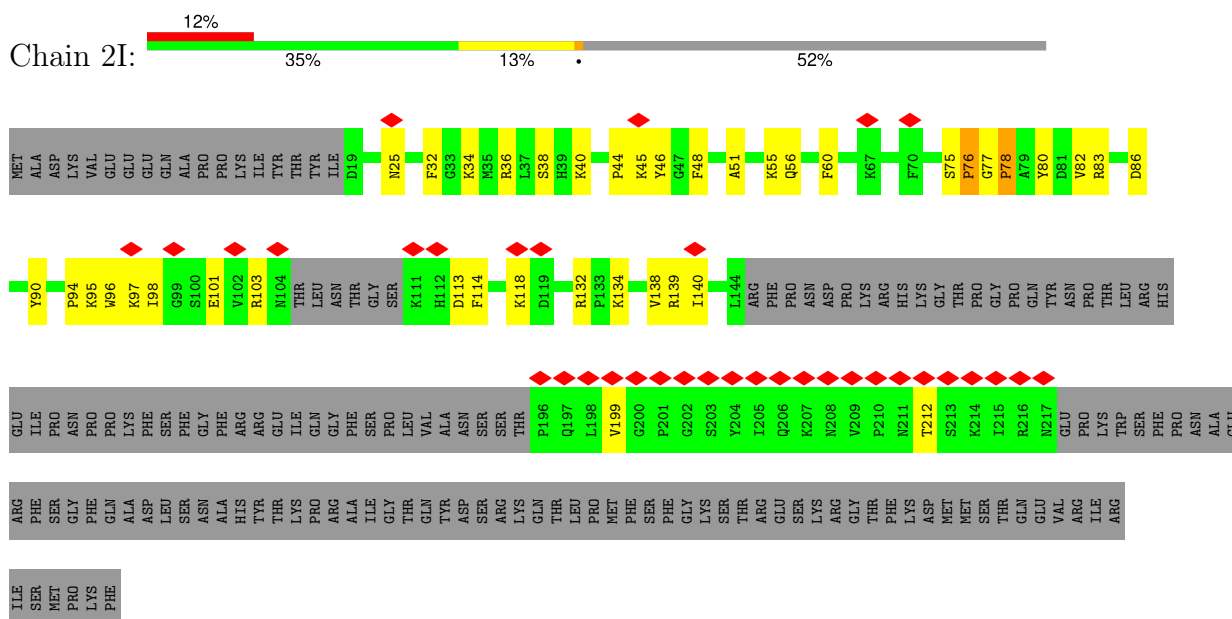


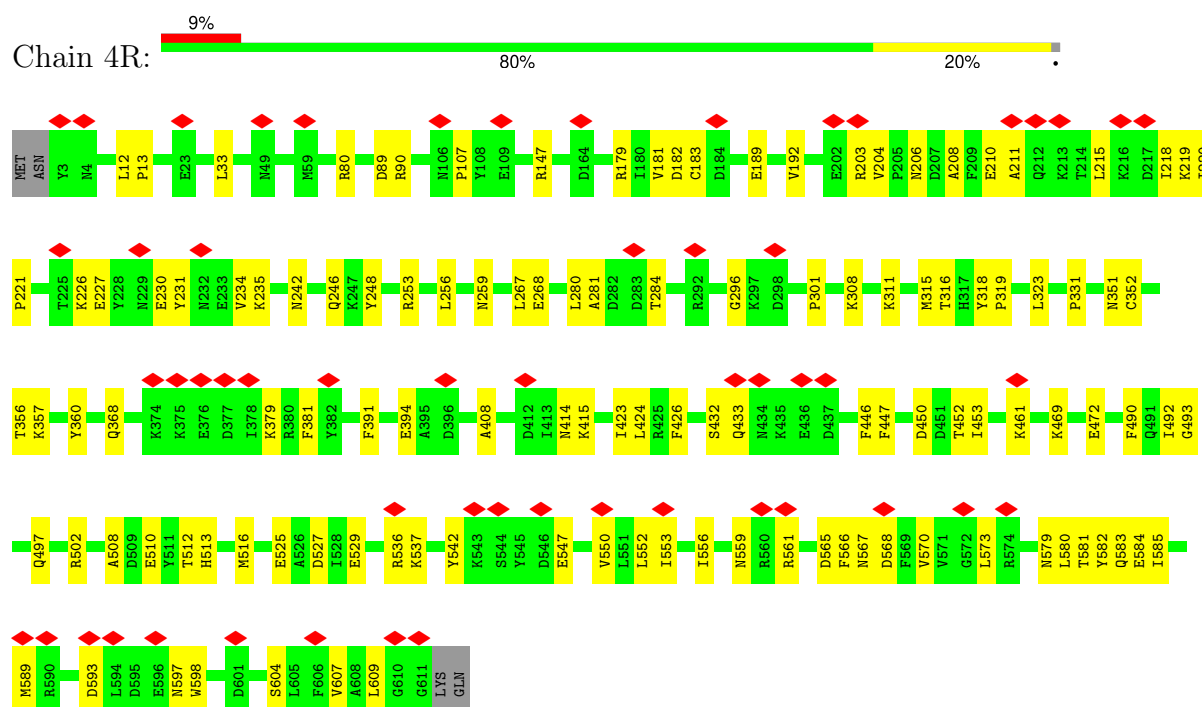
- Molecule 30: RIB27B

Chain 4H:

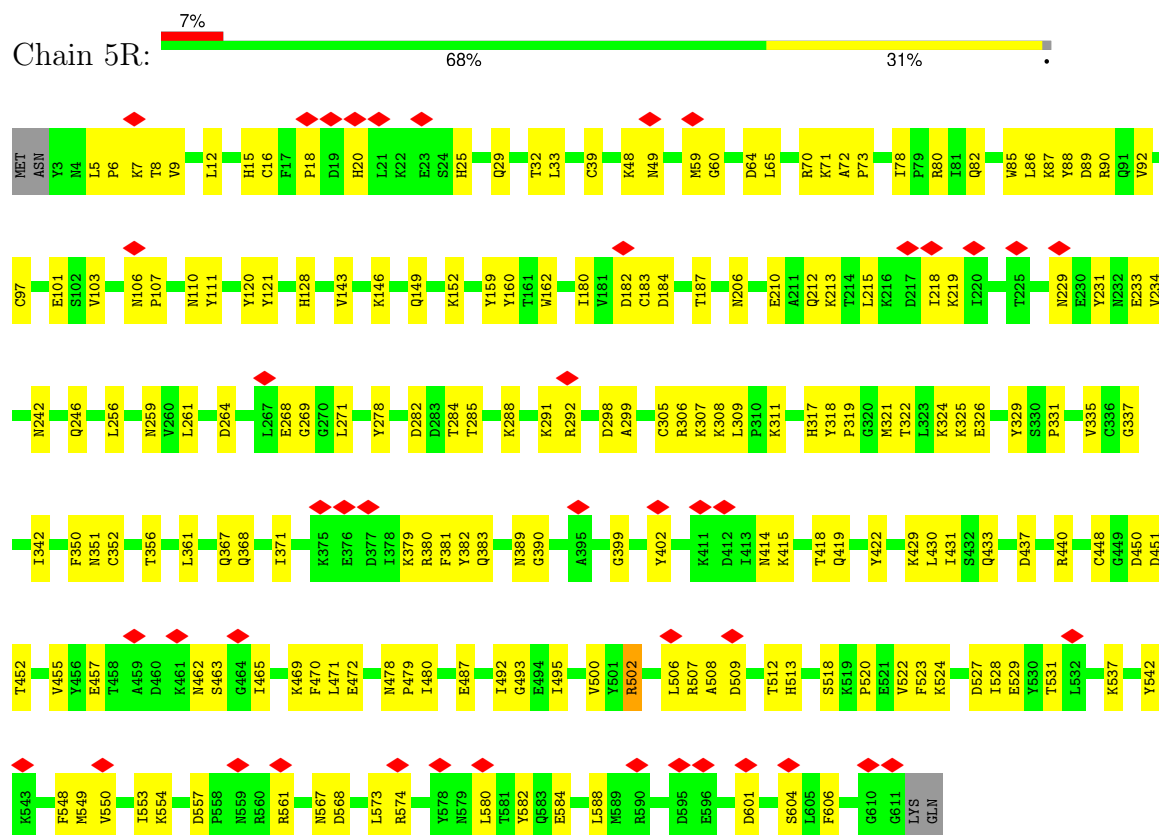
Amino Acid	Percentage
MET	5%
SER	24%
THR	5%
LEU	73%

- Molecule 31: STPG2

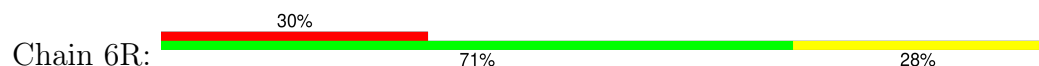


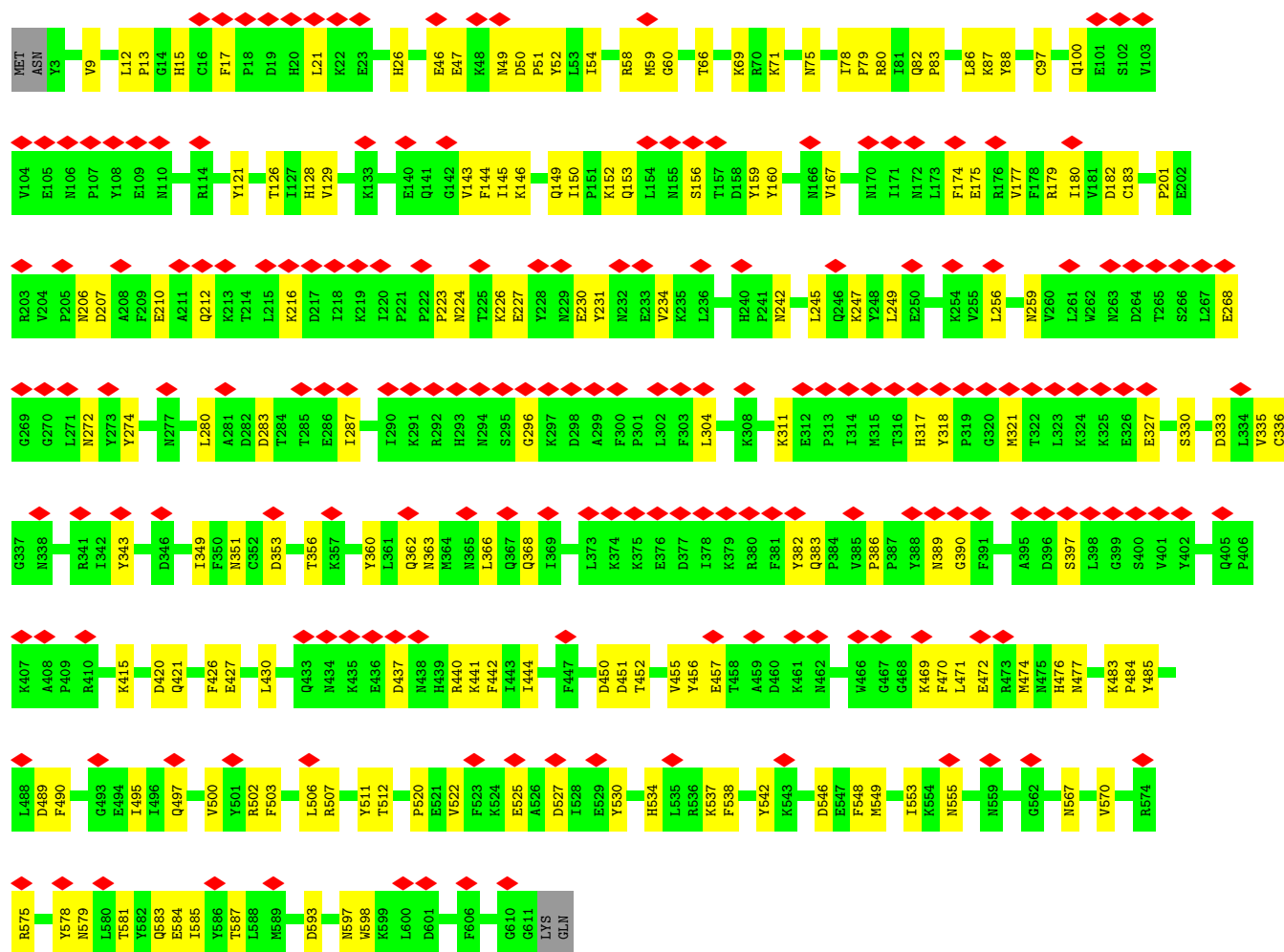


• Molecule 34: Flagellar microtubule protofilament ribbon protein

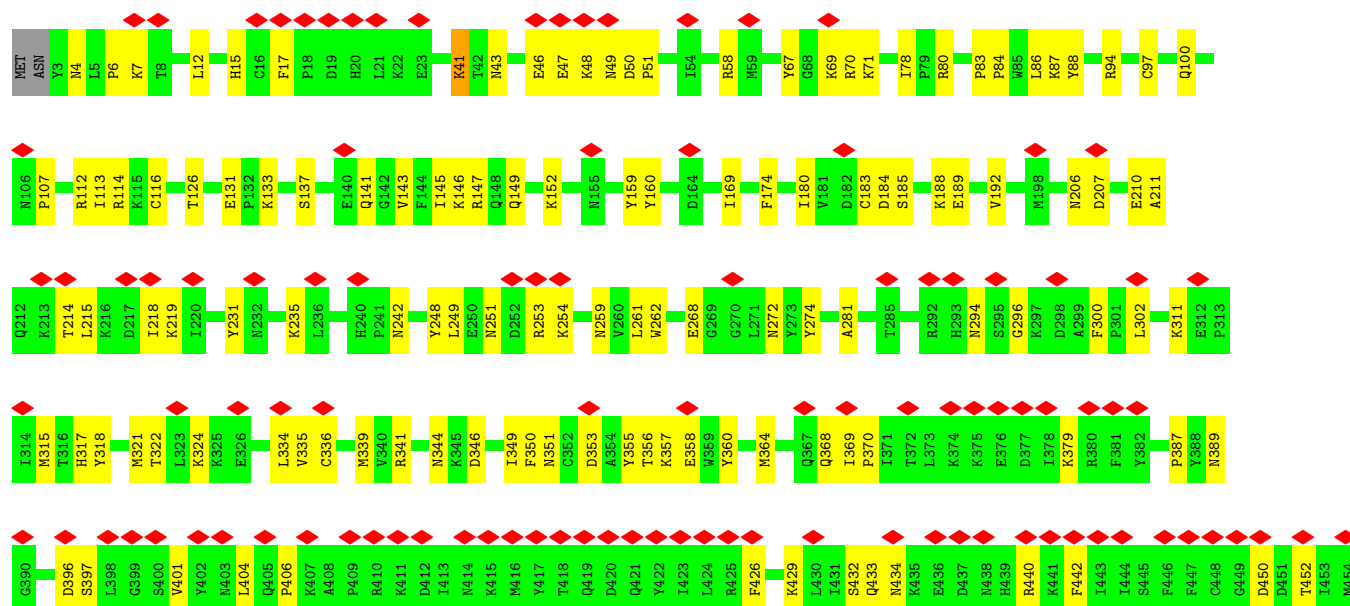


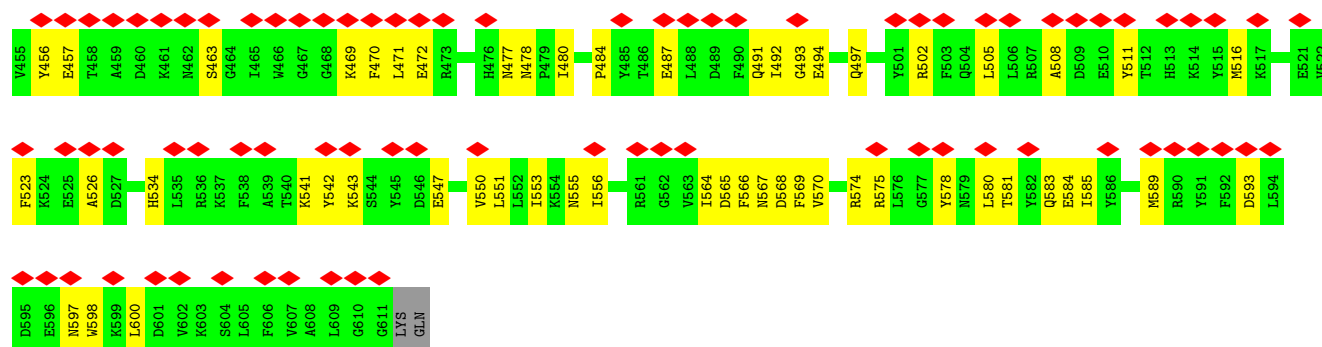
• Molecule 34: Flagellar microtubule protofilament ribbon protein



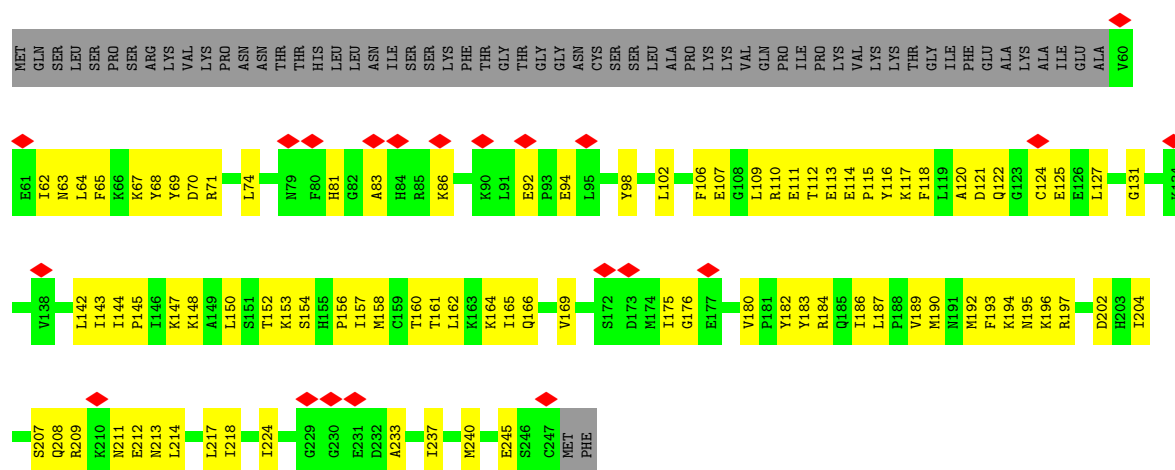


● Molecule 34: Flagellar microtubule protofilament ribbon protein

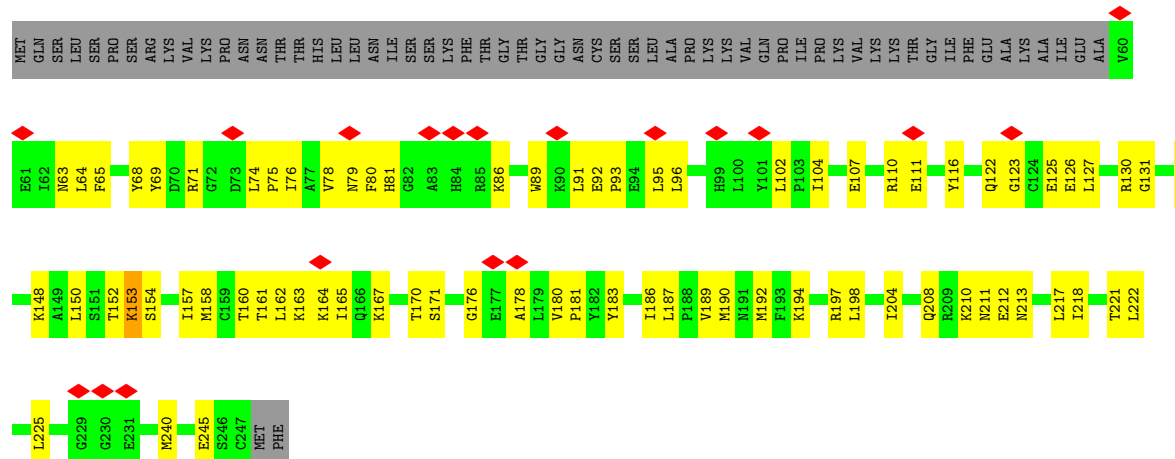




• Molecule 35: Parkin co-regulated protein PACRGB

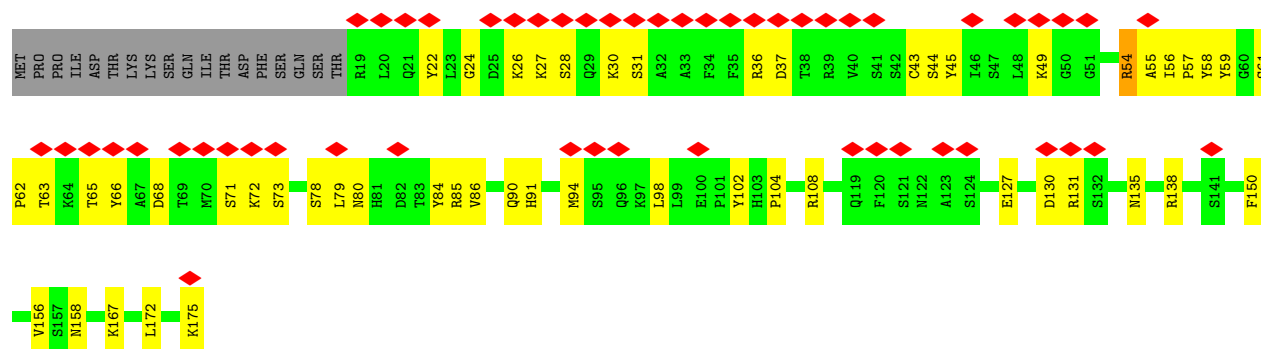


• Molecule 35: Parkin co-regulated protein PACRGB

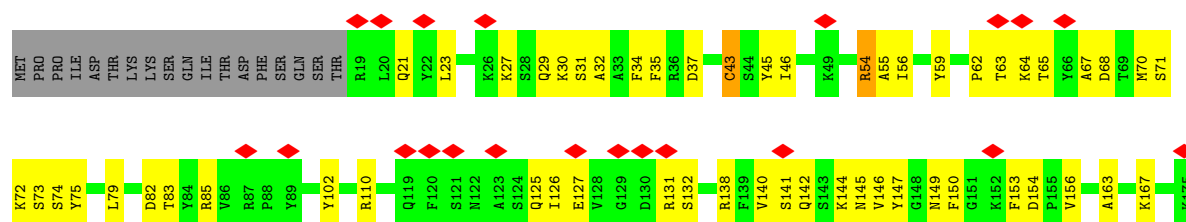


• Molecule 36: OJ2

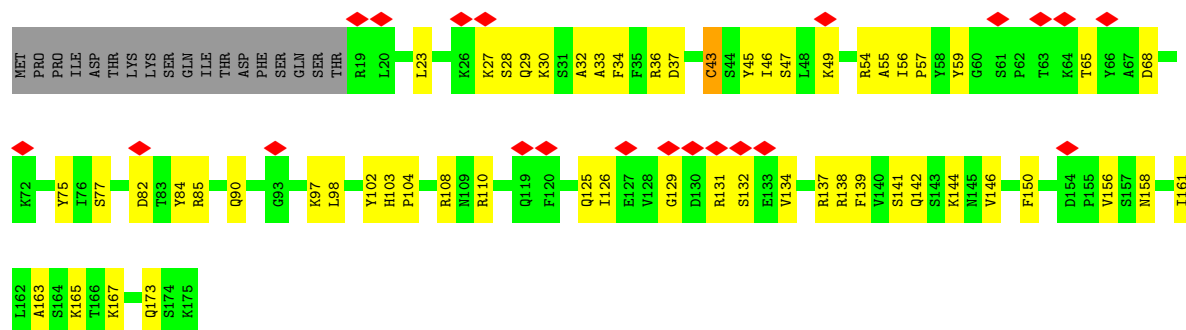




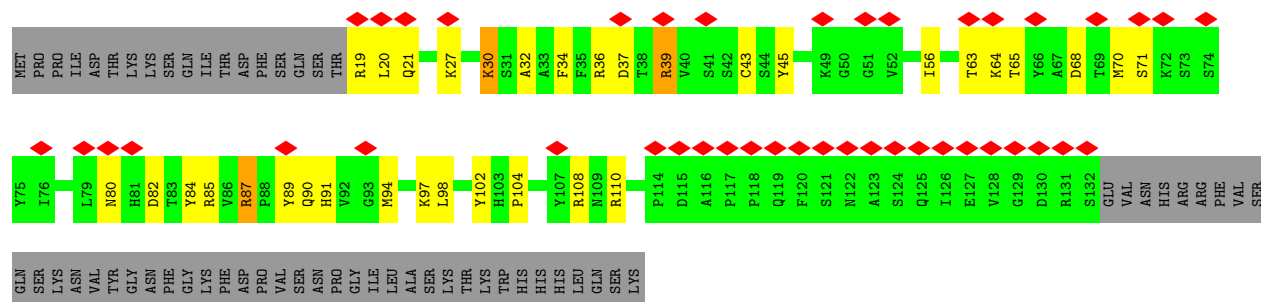
- Molecule 36: OJ2



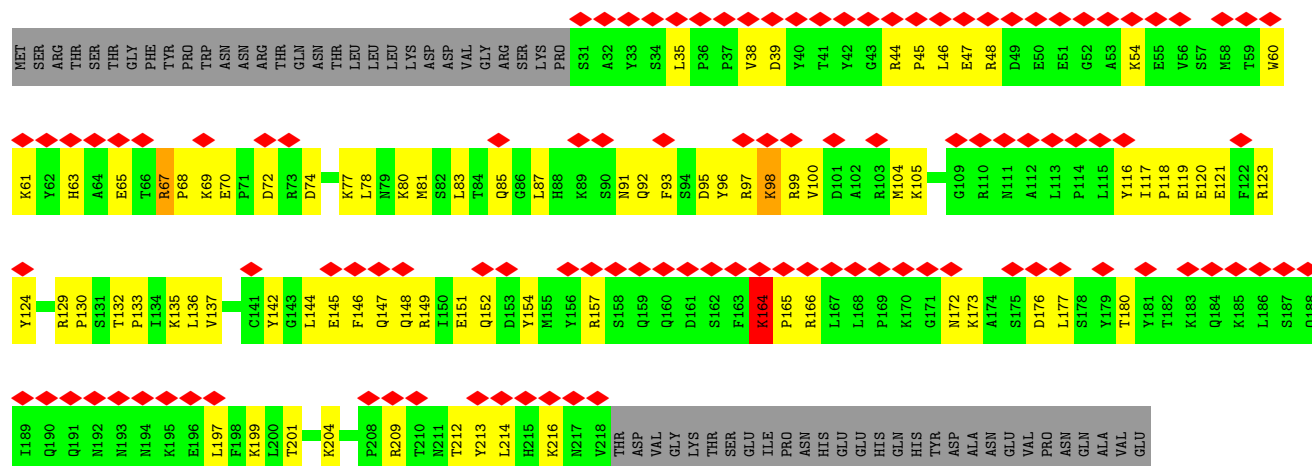
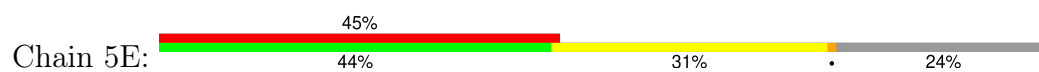
- Molecule 36: OJ2



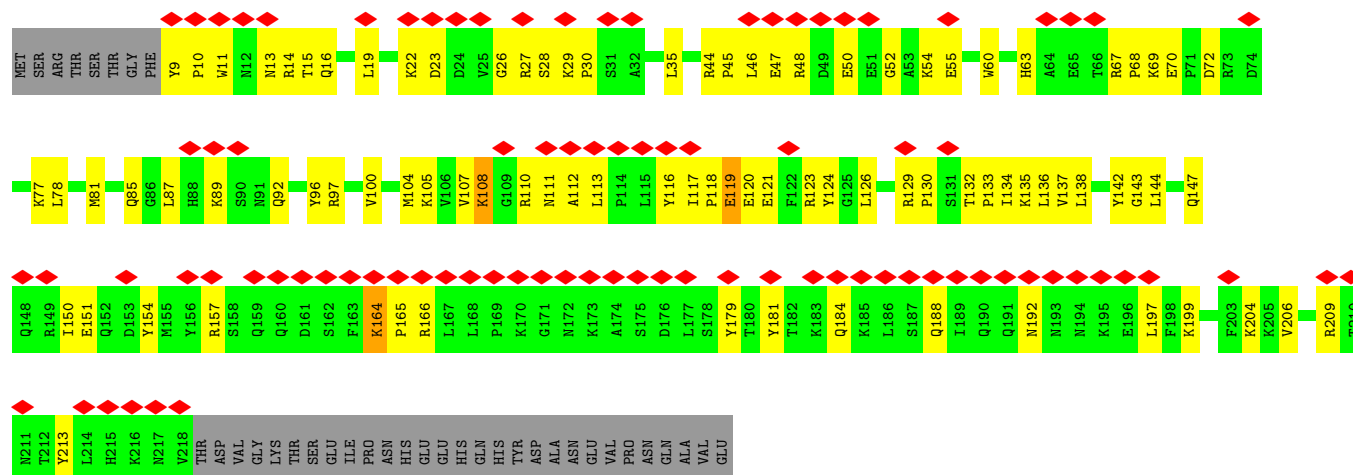
- Molecule 36: OJ2



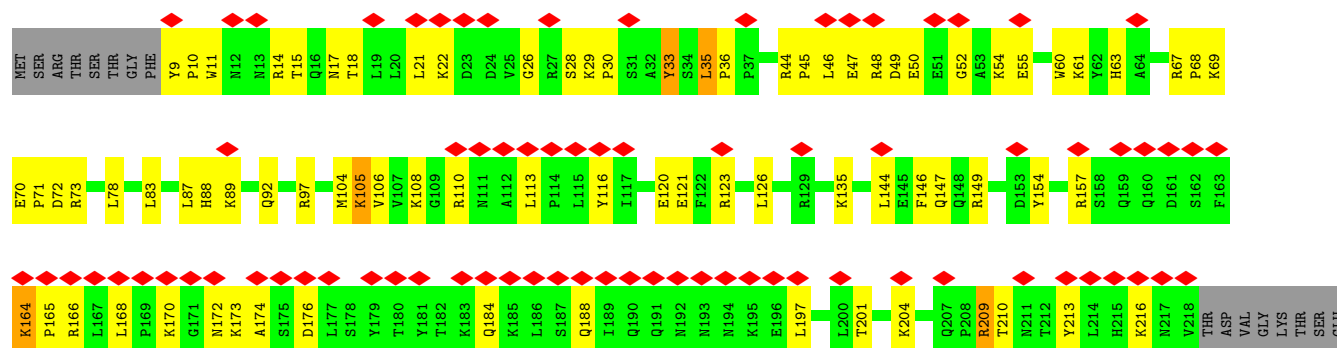
- Molecule 37: CFAP77A



• Molecule 37: CFAP77A



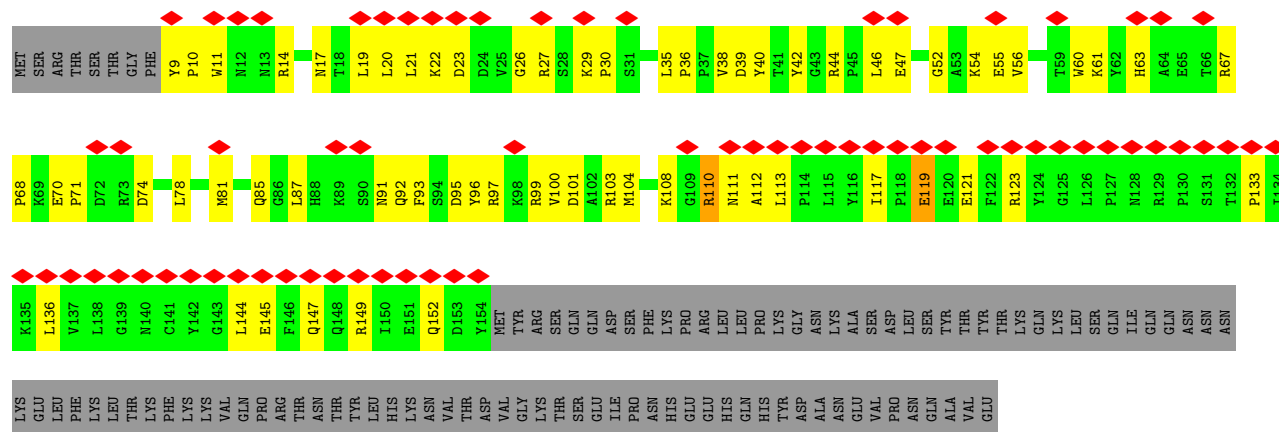
• Molecule 37: CFAP77A



ILE
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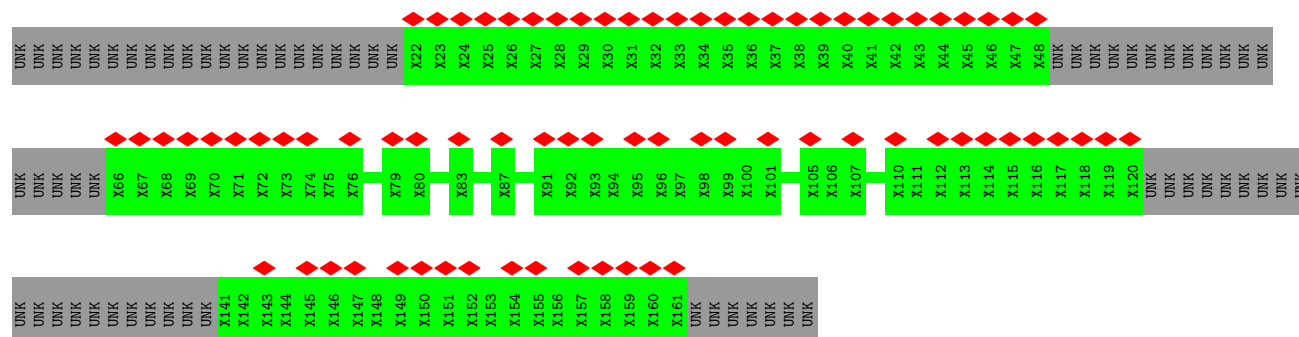
• Molecule 37: CFAP77A

Chain 5H: 28% 32% 26% 41%



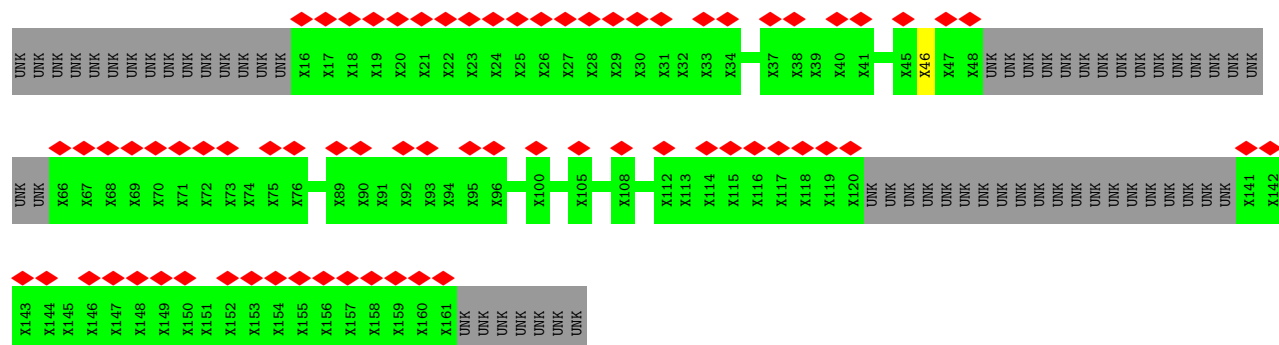
• Molecule 38: OJ3

Chain 5I: 45% 61% 39%




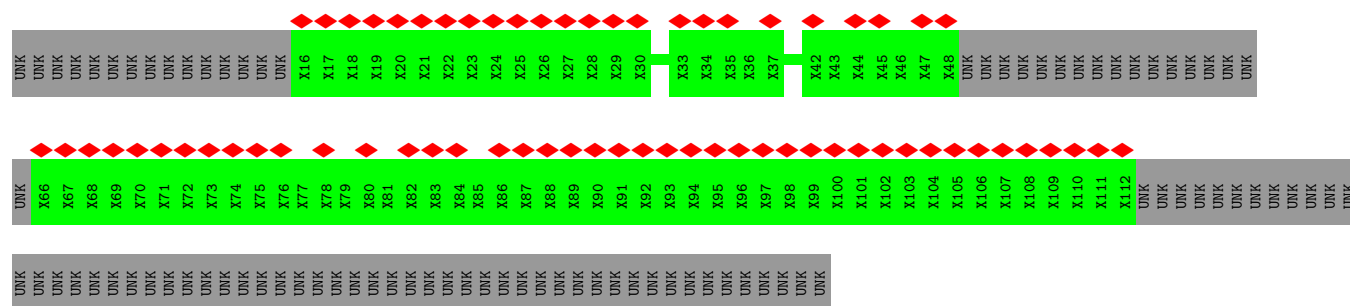
• Molecule 38: OJ3

Chain 5J: 42% 64% 35%



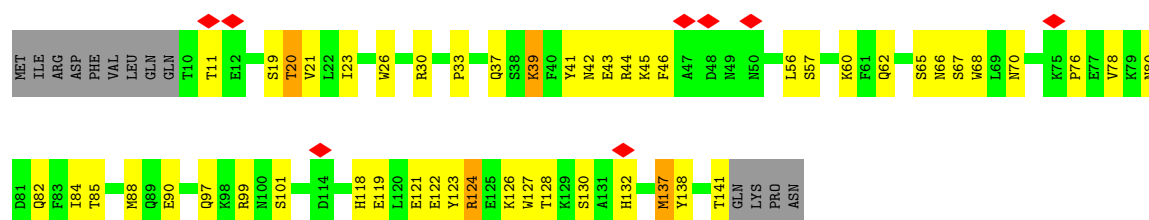
• Molecule 38: OJ3

Chain 5K: 




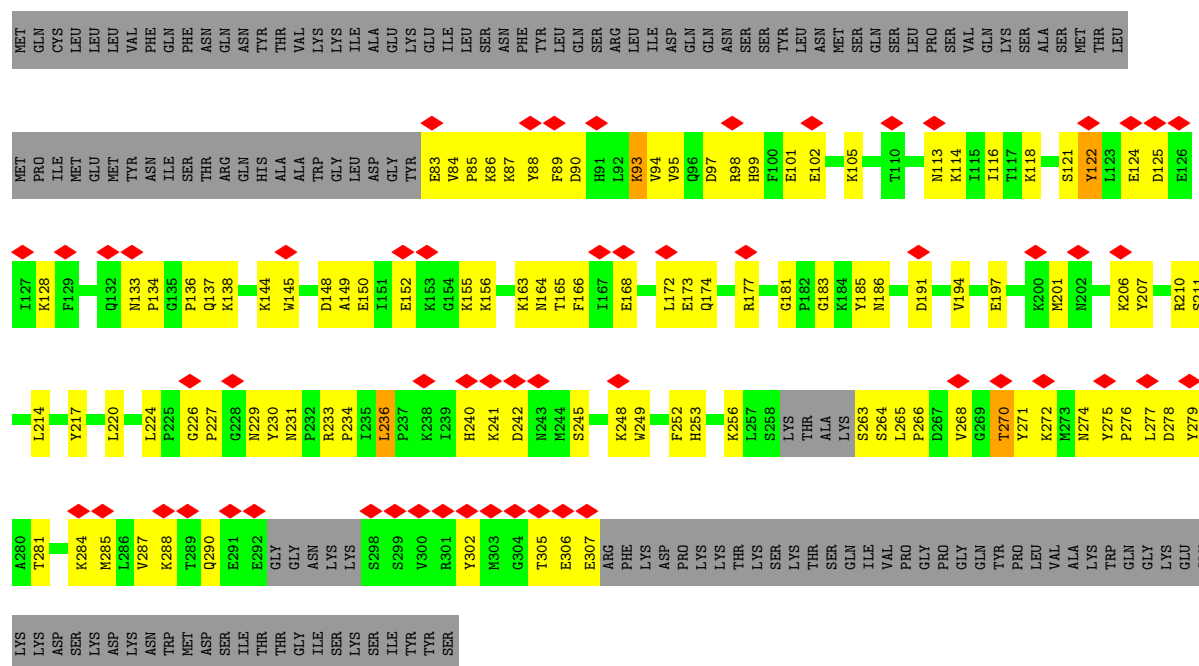
• Molecule 39: SB1

Chain 6F: 



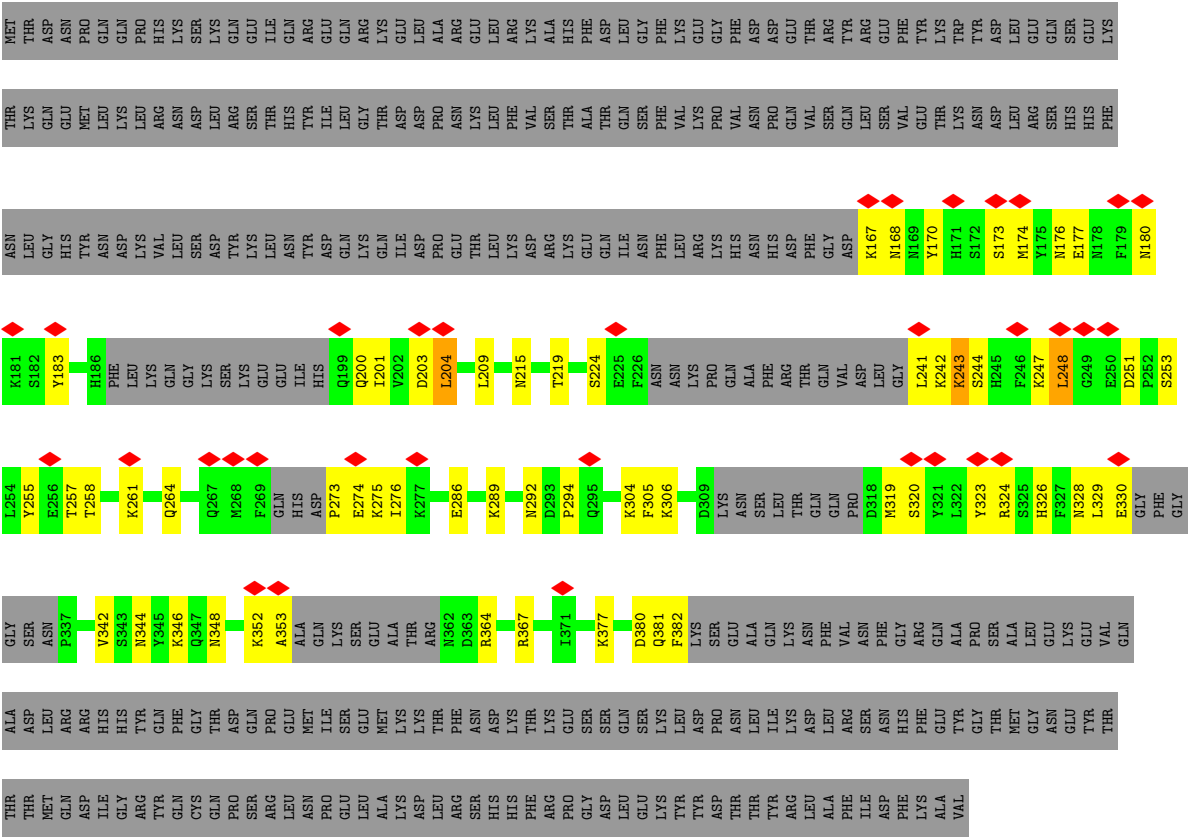
• Molecule 40: STPG1A

Chain 6G: 

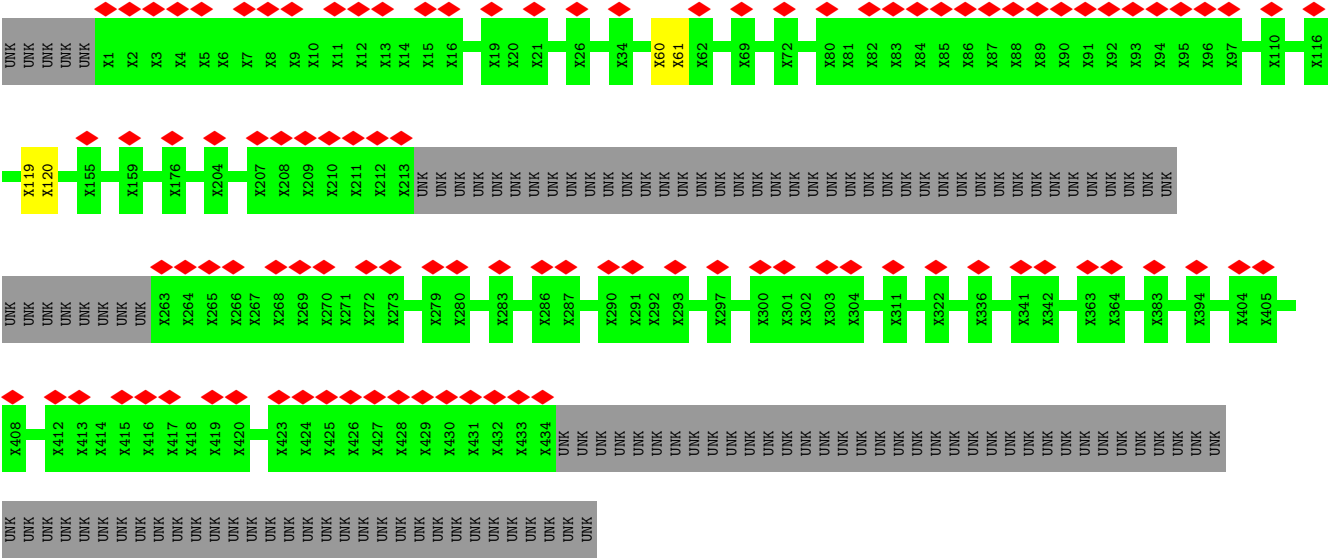
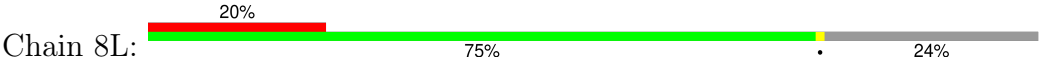


• Molecule 41: Nebulin

Chain 6H: 

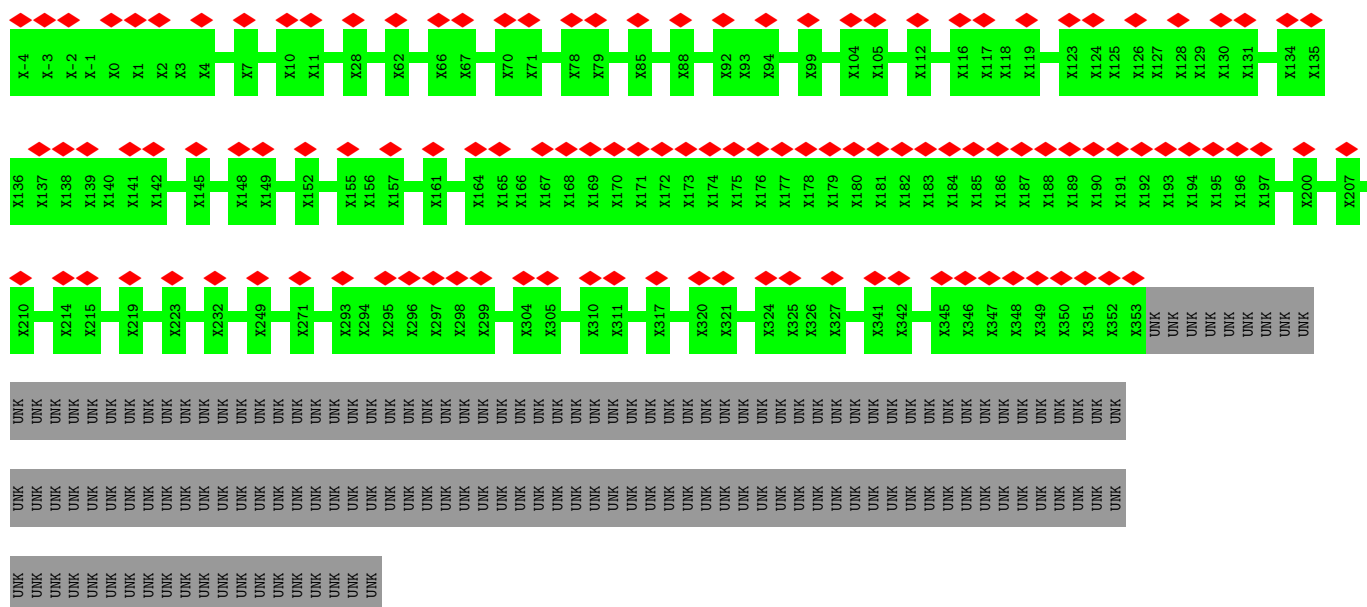


• Molecule 42: B5B6_fMIP

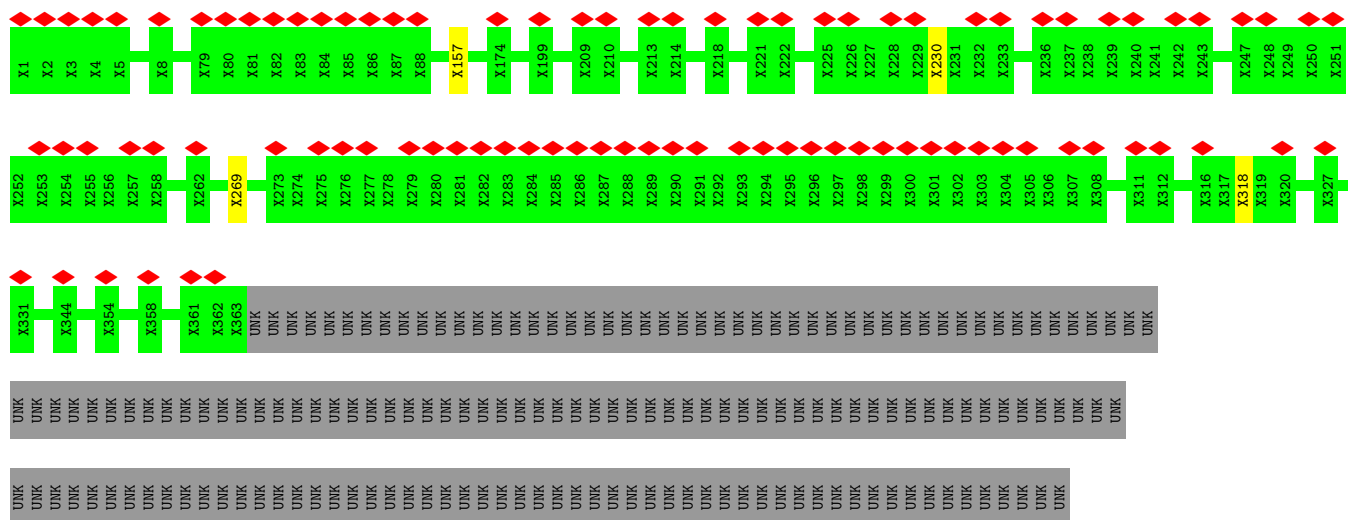


• Molecule 42: B5B6_fMIP



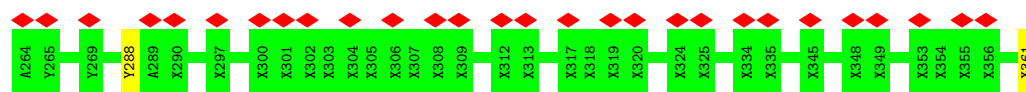


• Molecule 43: CFAP112A

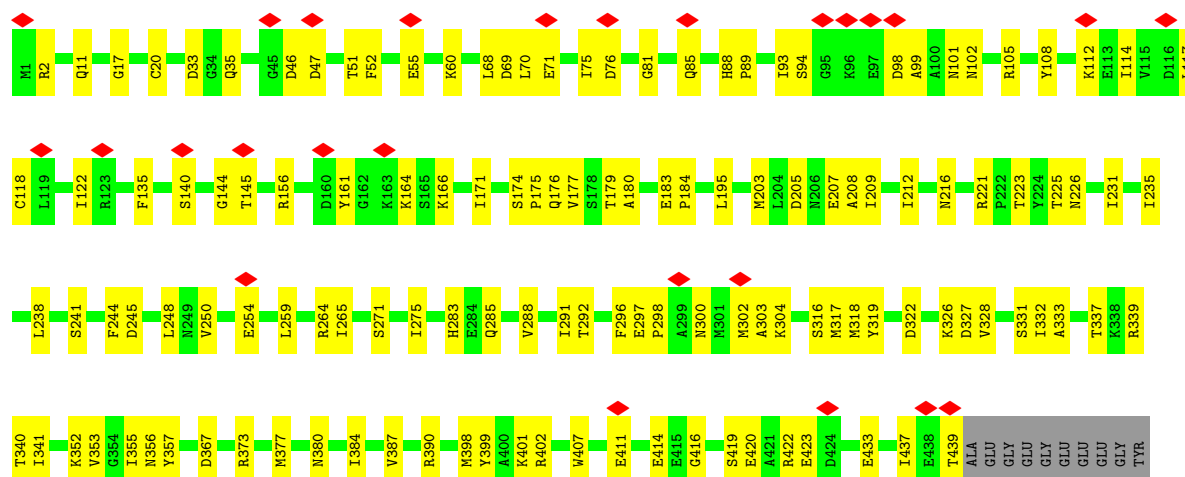


• Molecule 44: B2B3_fMIP

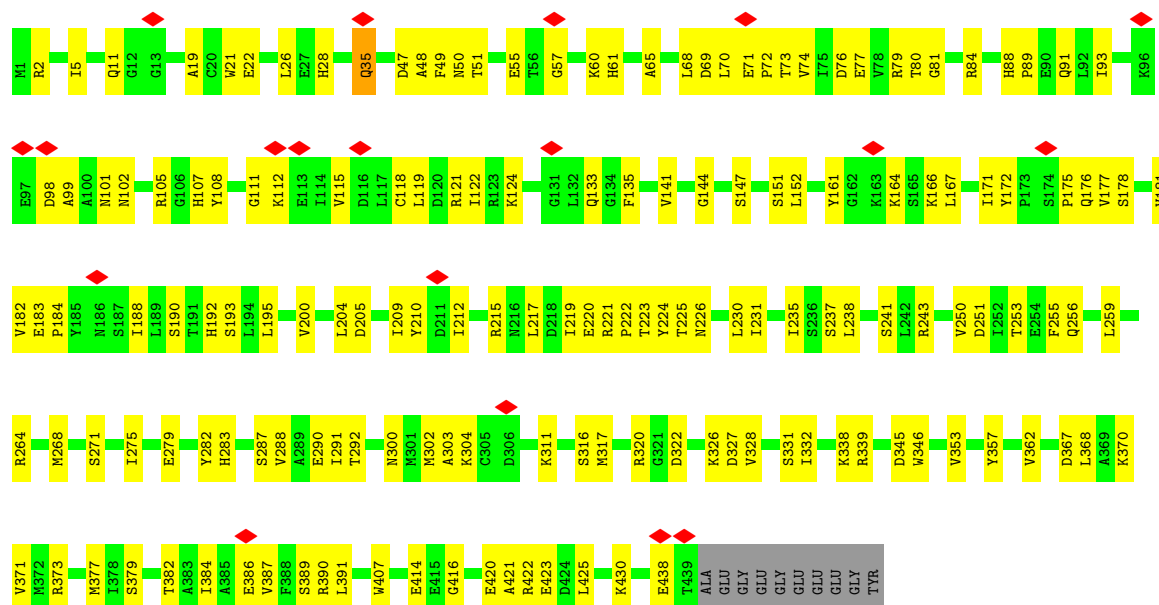




• Molecule 45: Tubulin alpha chain

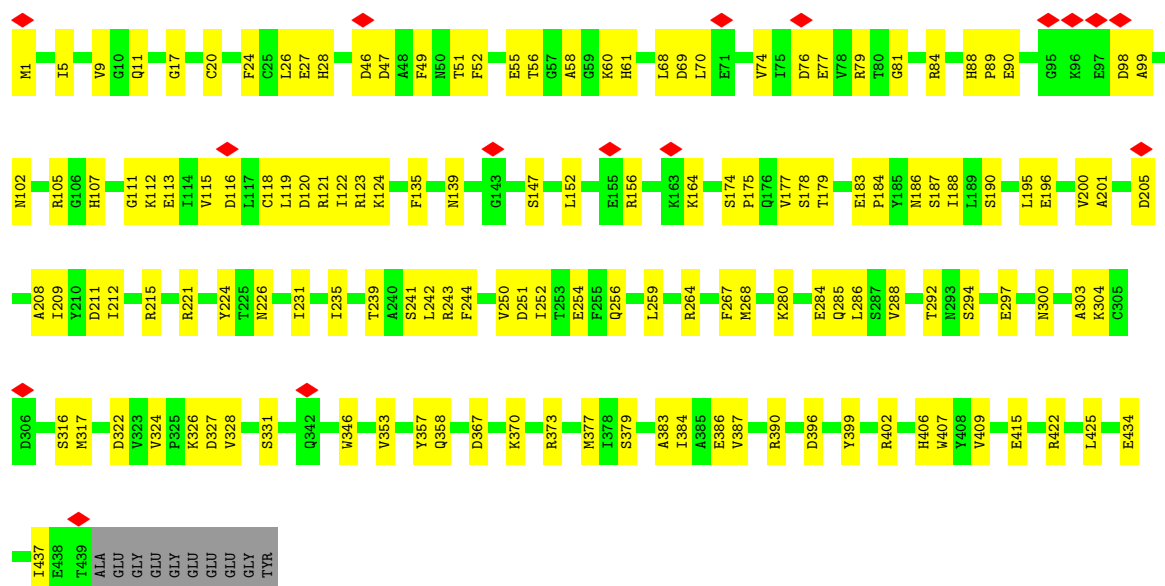


• Molecule 45: Tubulin alpha chain



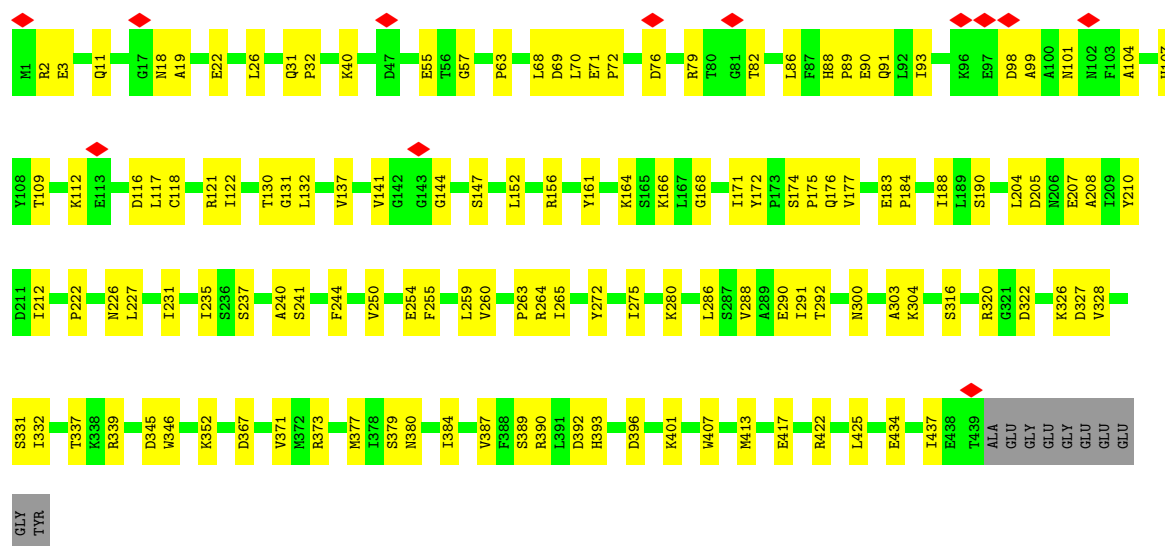
• Molecule 45: Tubulin alpha chain





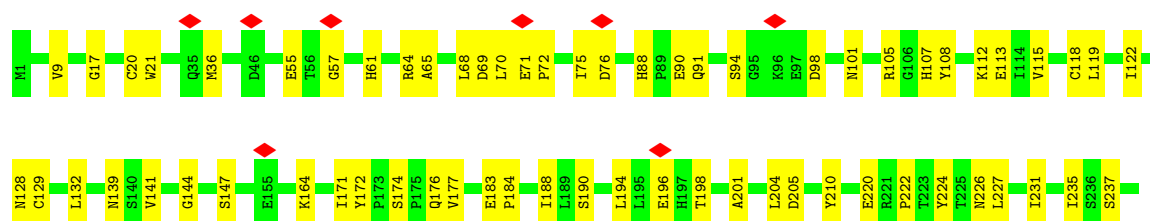
• Molecule 45: Tubulin alpha chain

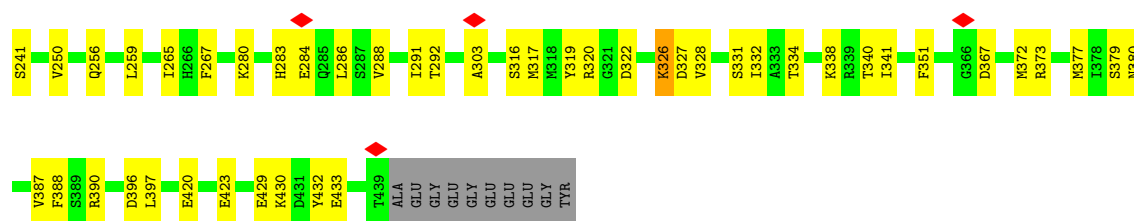
Chain AG: 69% 29% .



• Molecule 45: Tubulin alpha chain

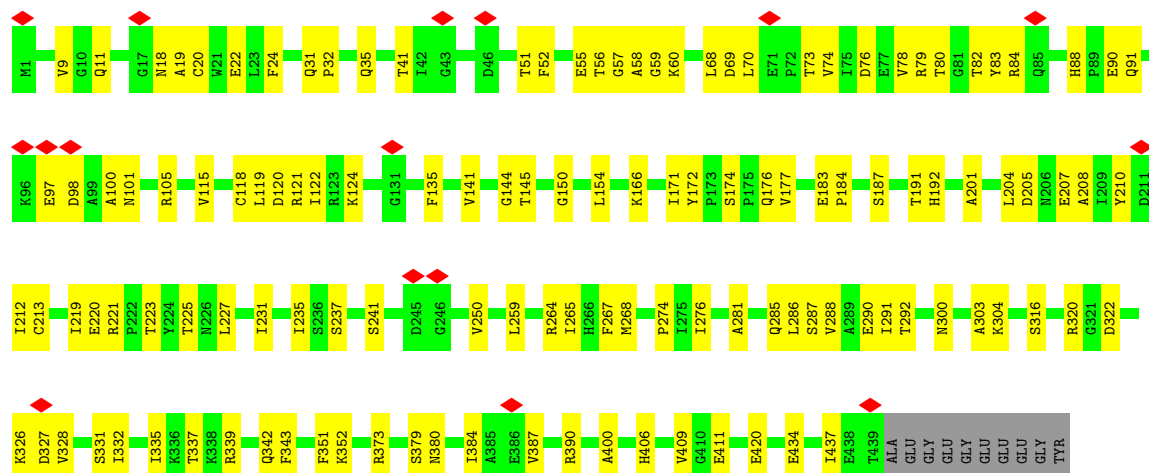
Chain AI: 73% 24% .





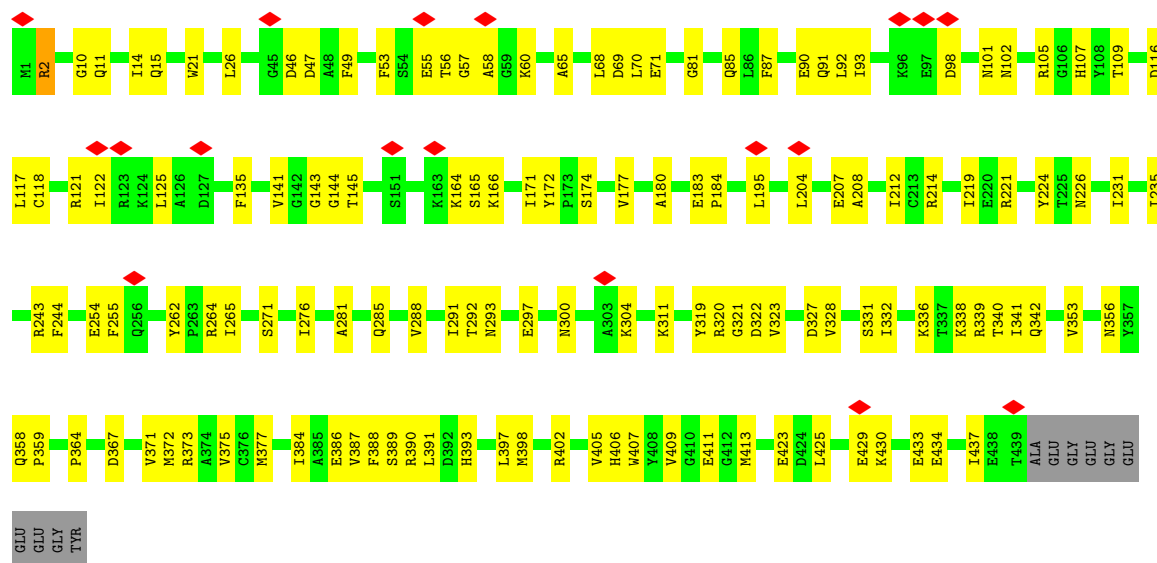
• Molecule 45: Tubulin alpha chain

Chain AK: 69% 29% .



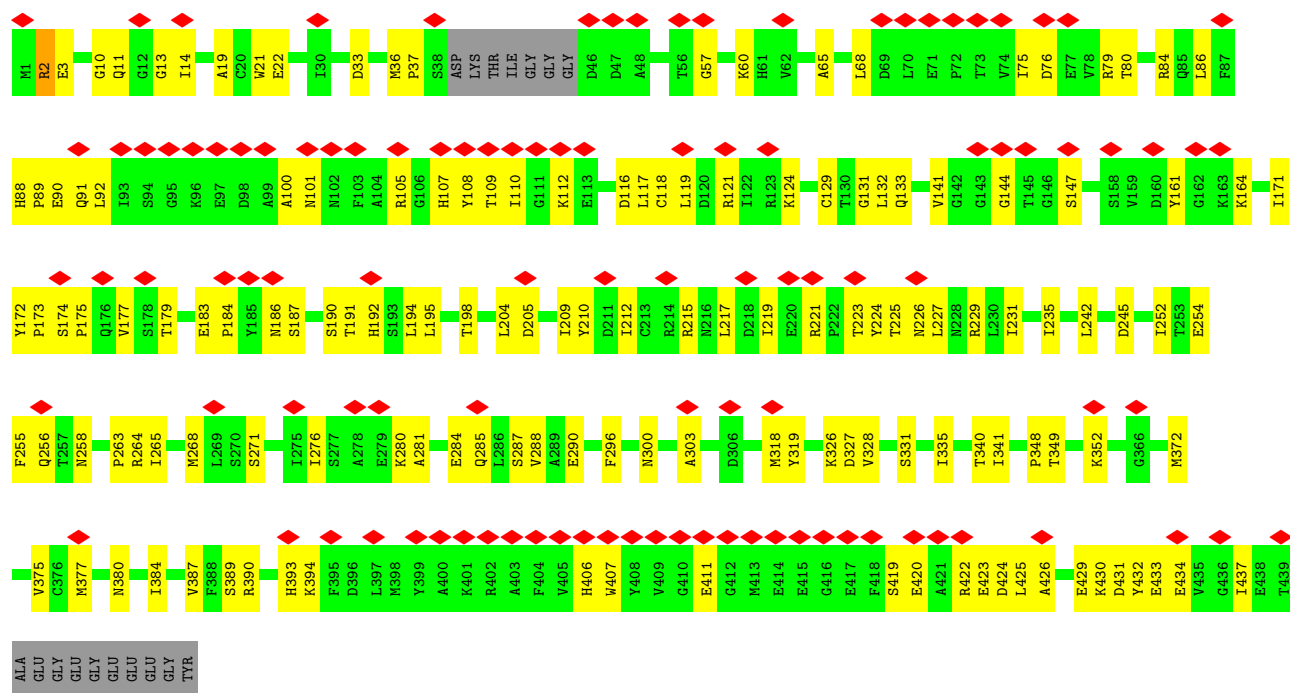
• Molecule 45: Tubulin alpha chain

Chain AM: 67% 30% .

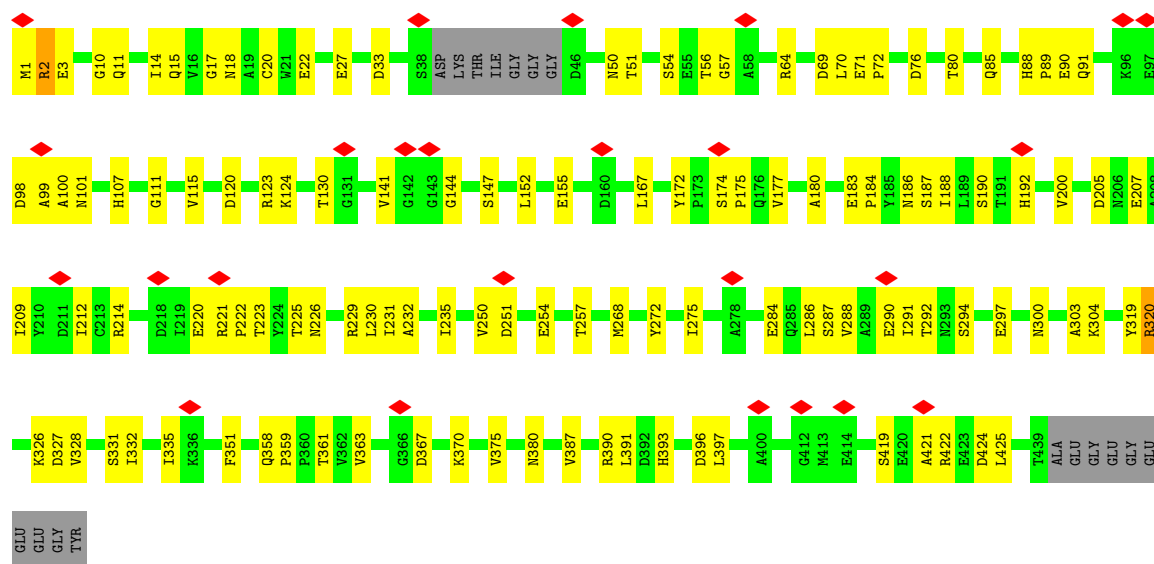


• Molecule 45: Tubulin alpha chain

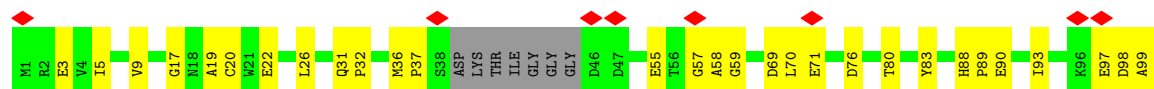
Chain BA: 24% 64% 32% .



• Molecule 45: Tubulin alpha chain



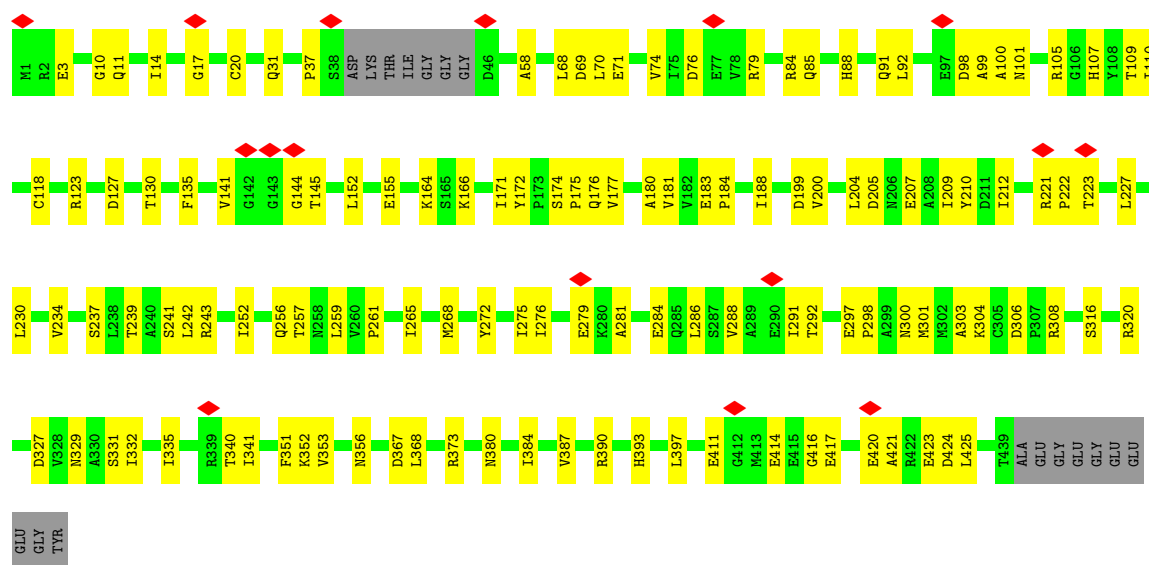
• Molecule 45: Tubulin alpha chain





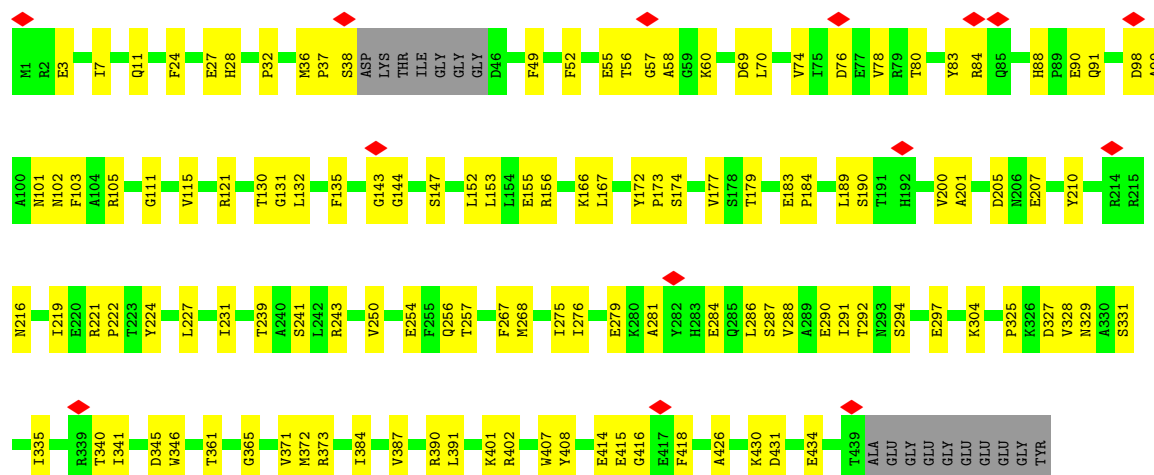
• Molecule 45: Tubulin alpha chain

Chain BG: 68% 28%

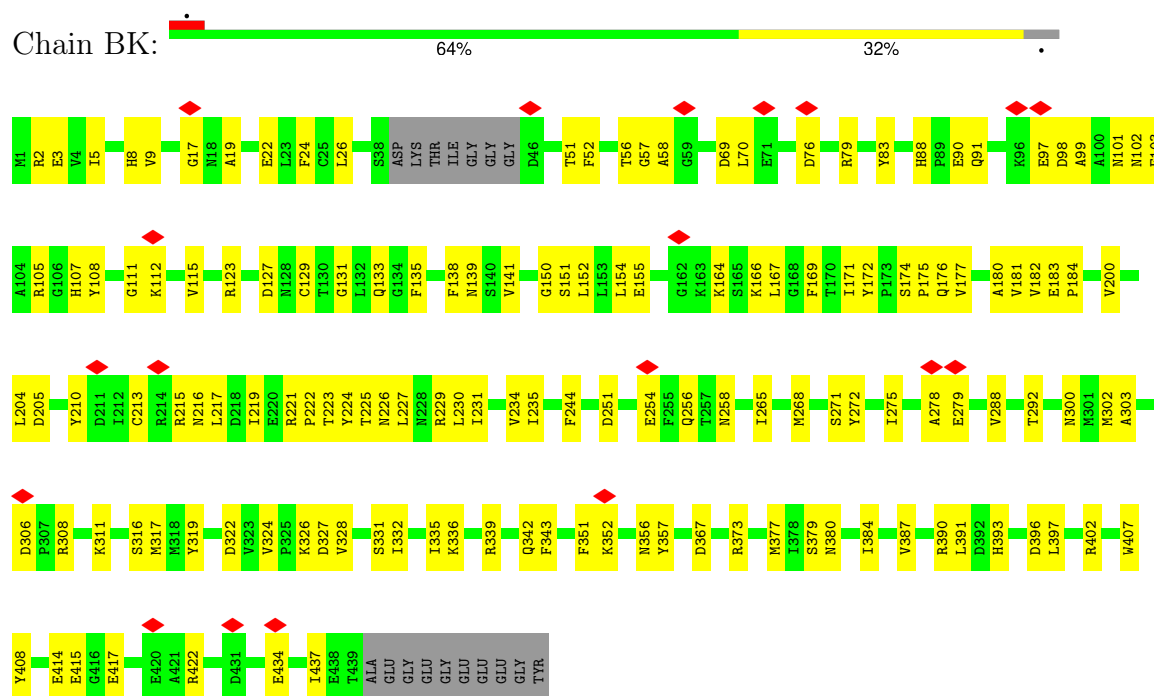


• Molecule 45: Tubulin alpha chain

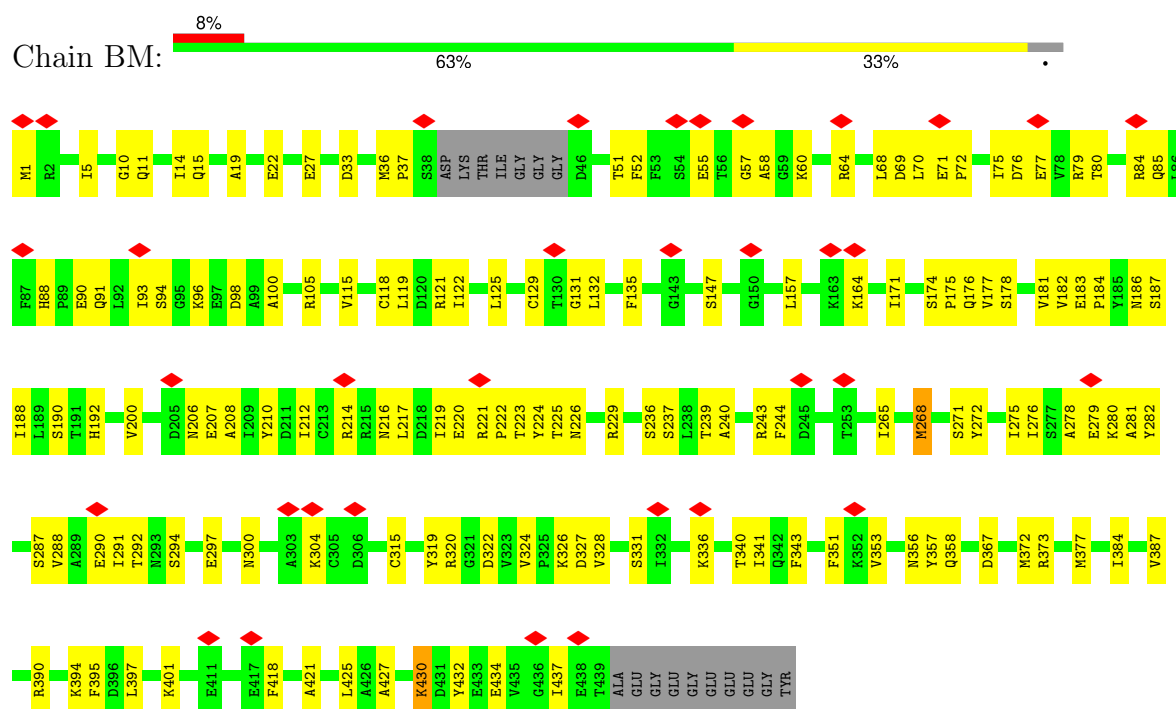
Chain BI: 68% 28%



- Molecule 45: Tubulin alpha chain

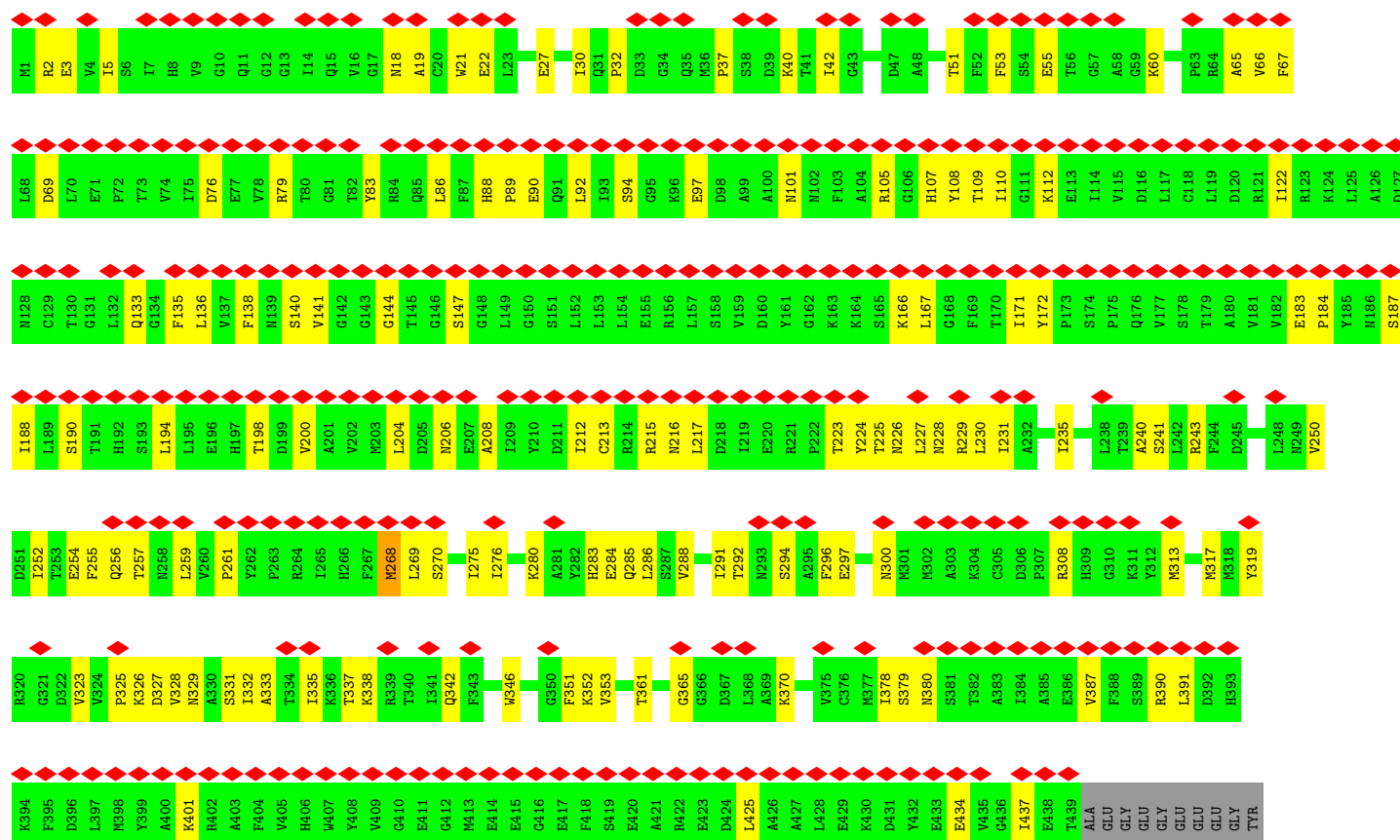


- Molecule 45: Tubulin alpha chain

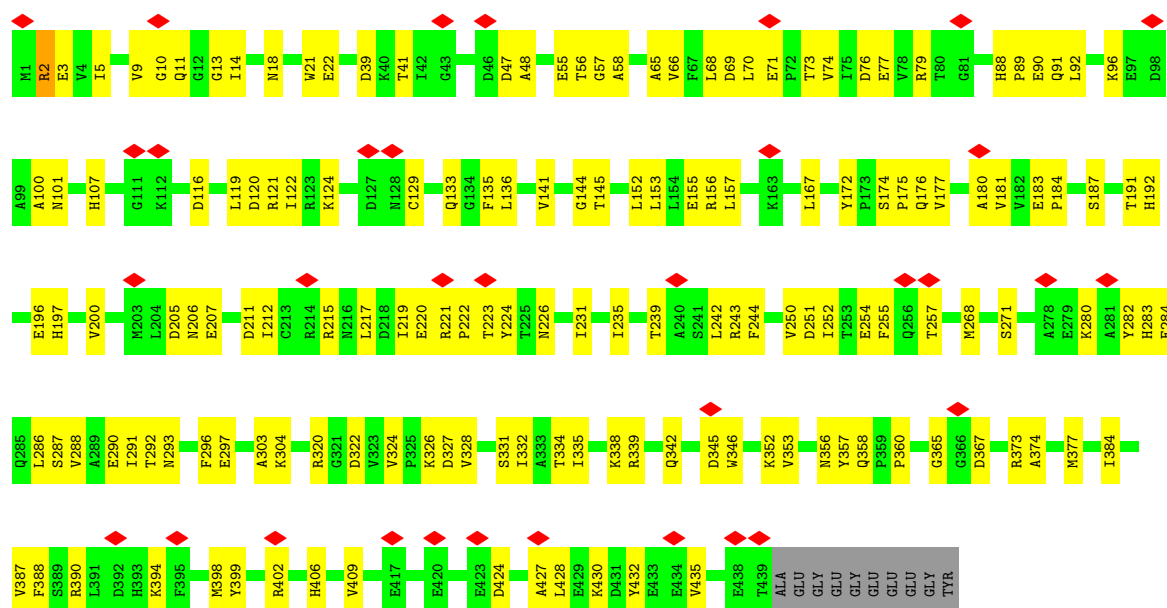


- Molecule 45: Tubulin alpha chain



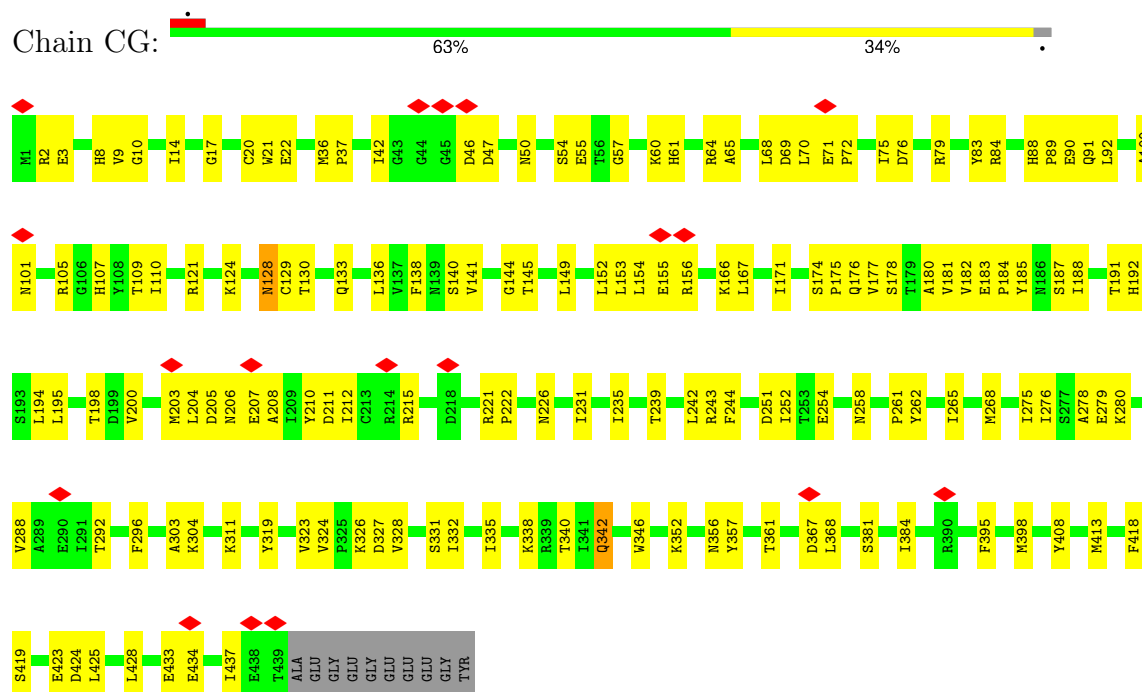


• Molecule 45: Tubulin alpha chain



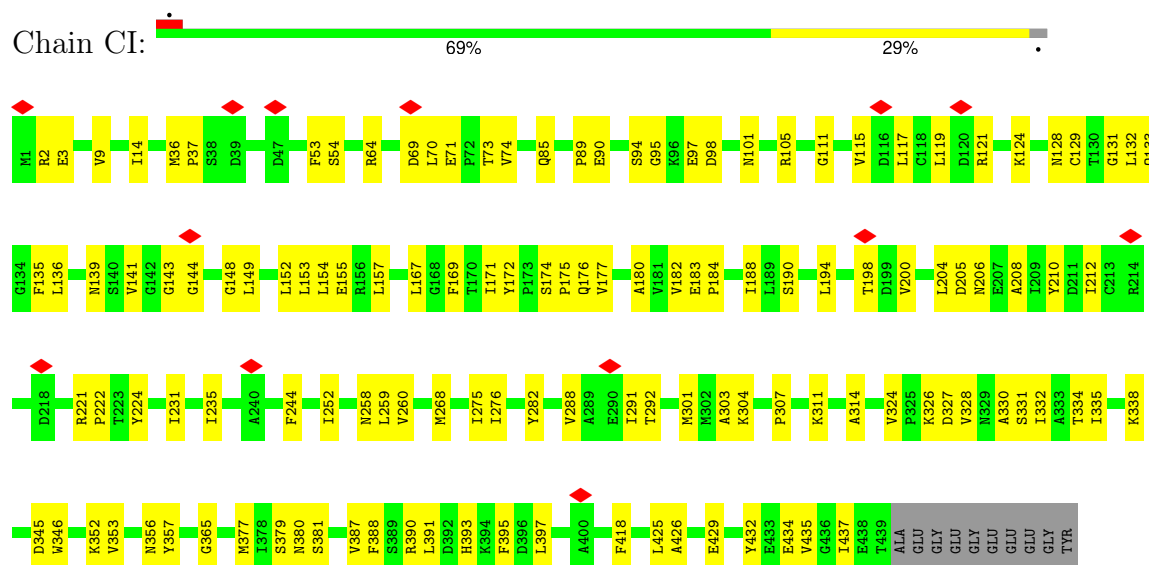
• Molecule 45: Tubulin alpha chain

Chain CG:



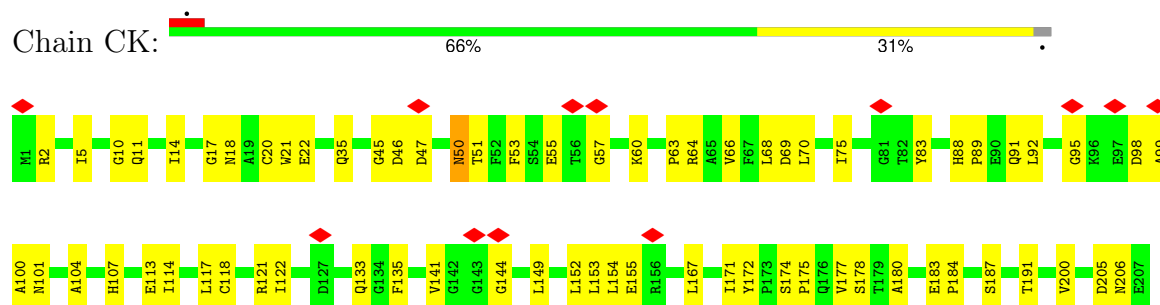
- Molecule 45: Tubulin alpha chain

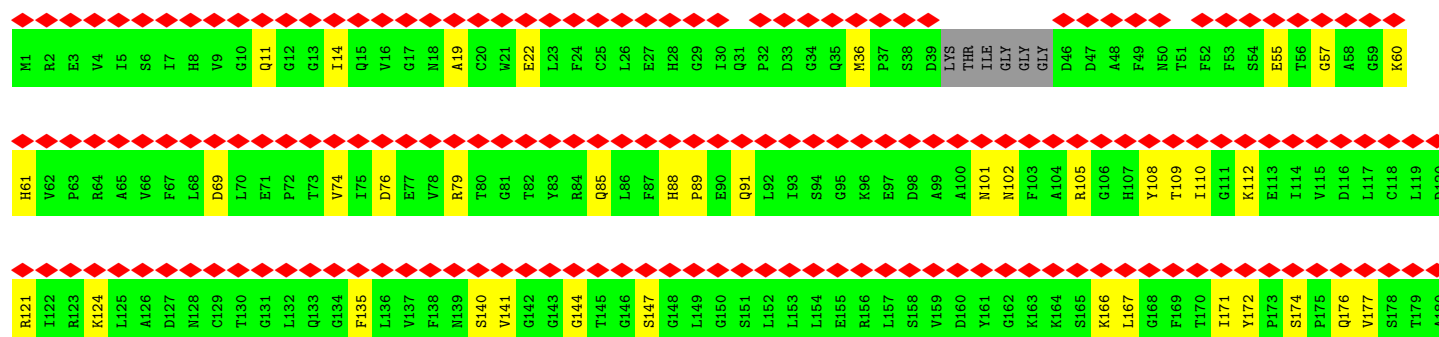
Chain CI:

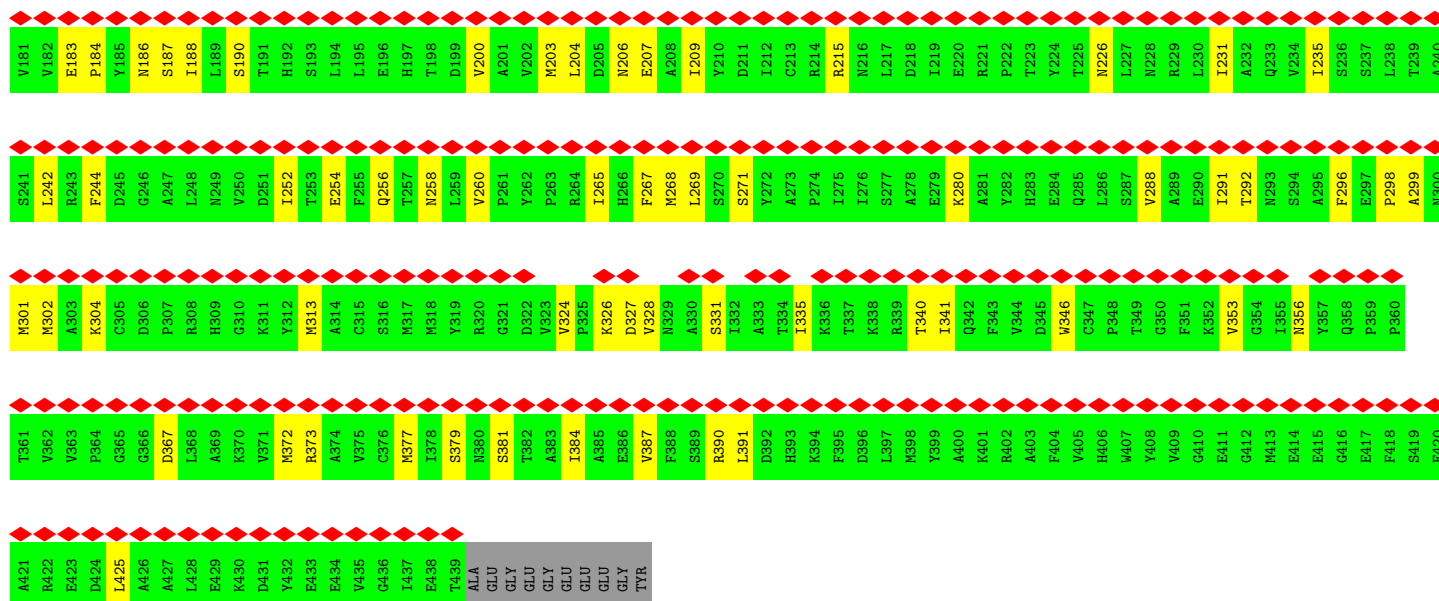


- Molecule 45: Tubulin alpha chain

Chain CK:

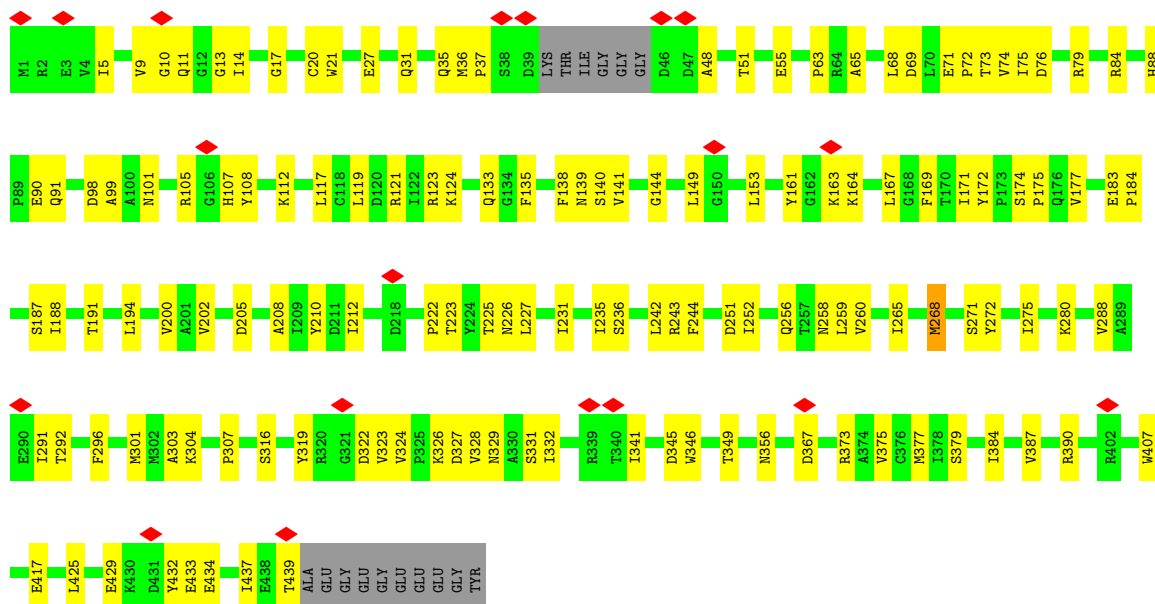






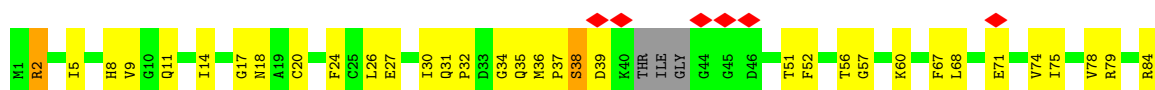
• Molecule 45: Tubulin alpha chain

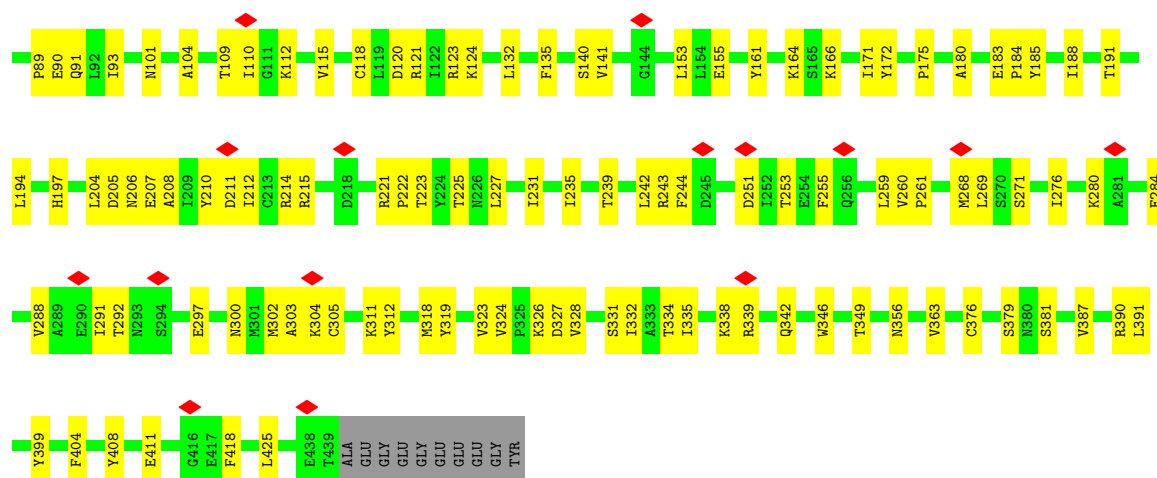
Chain DE: 65% 31%



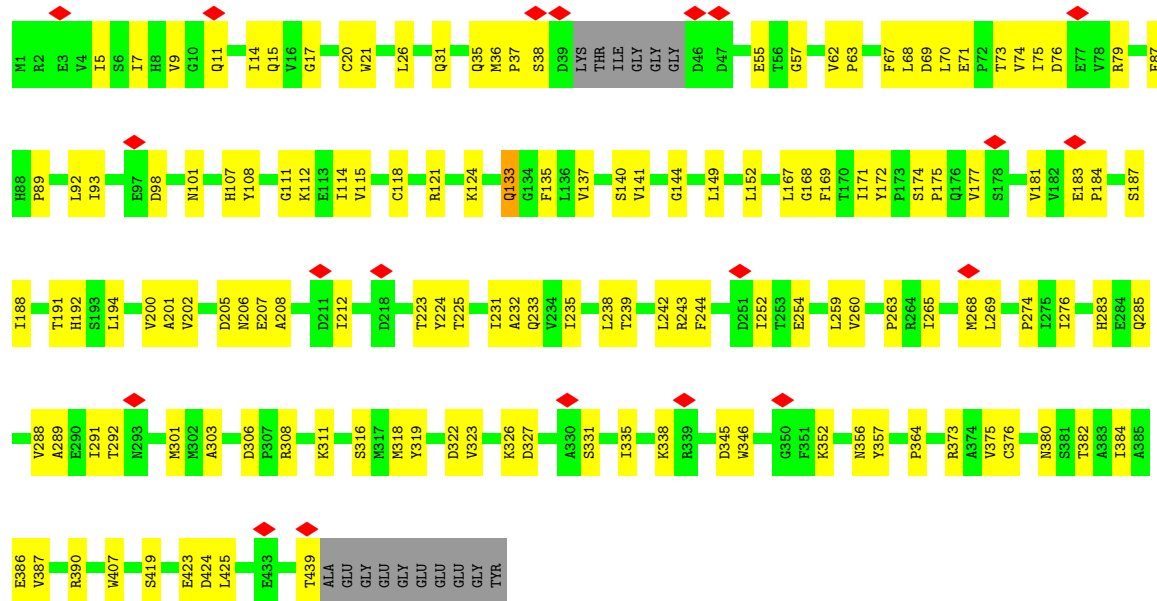
• Molecule 45: Tubulin alpha chain

Chain DG: 5% 65% 31%

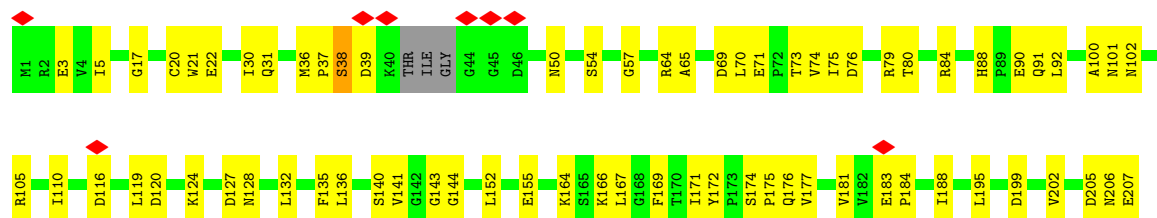


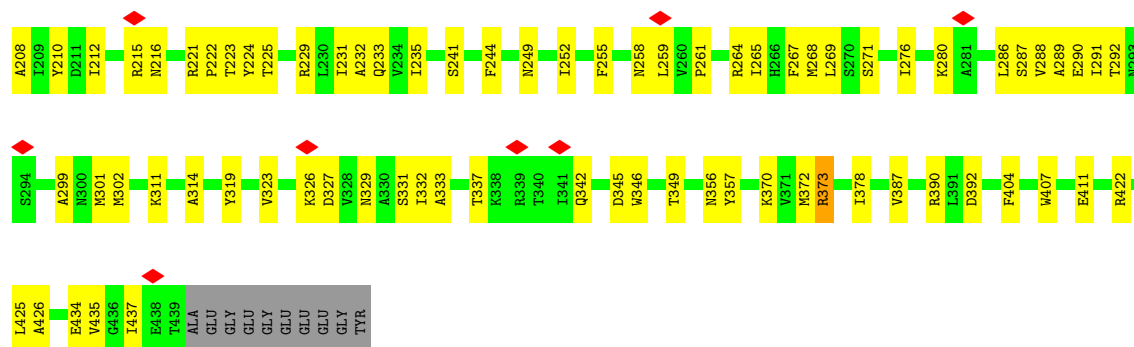


• Molecule 45: Tubulin alpha chain

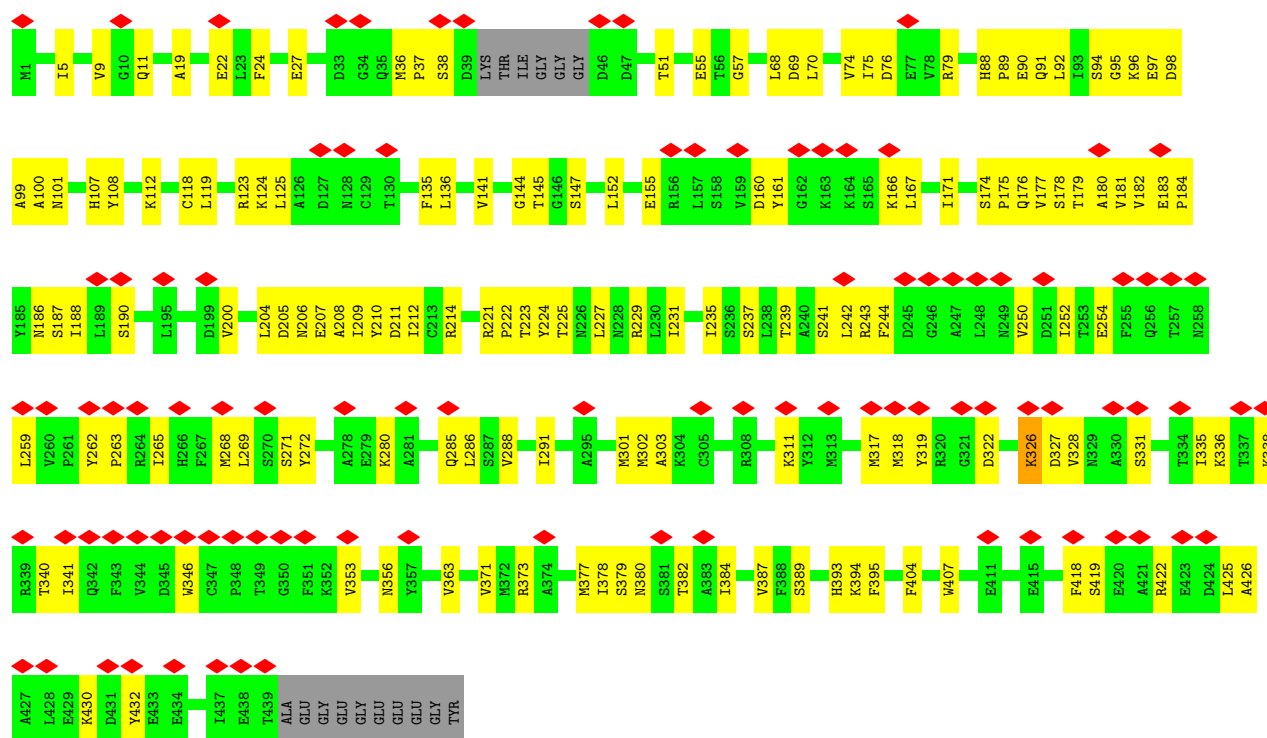


• Molecule 45: Tubulin alpha chain

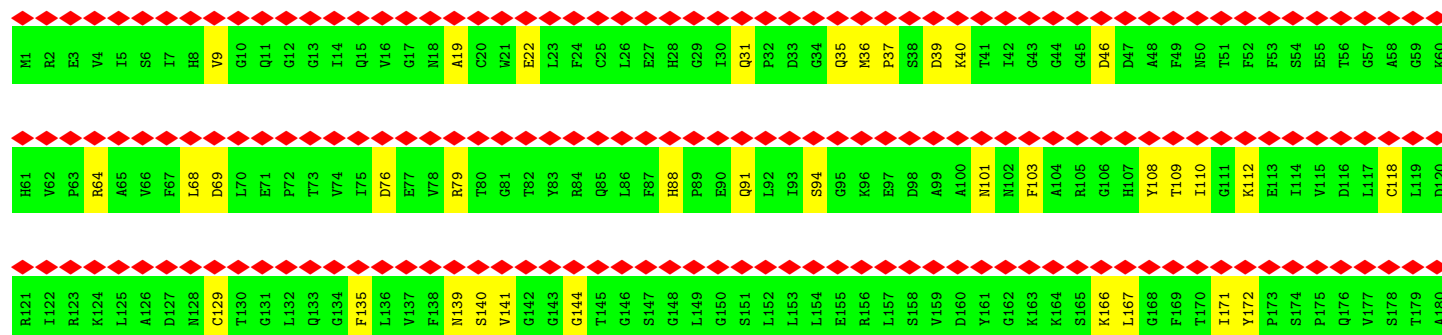
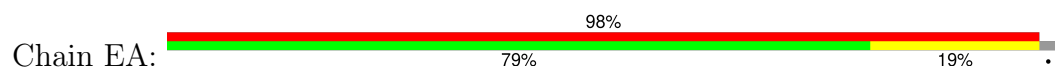


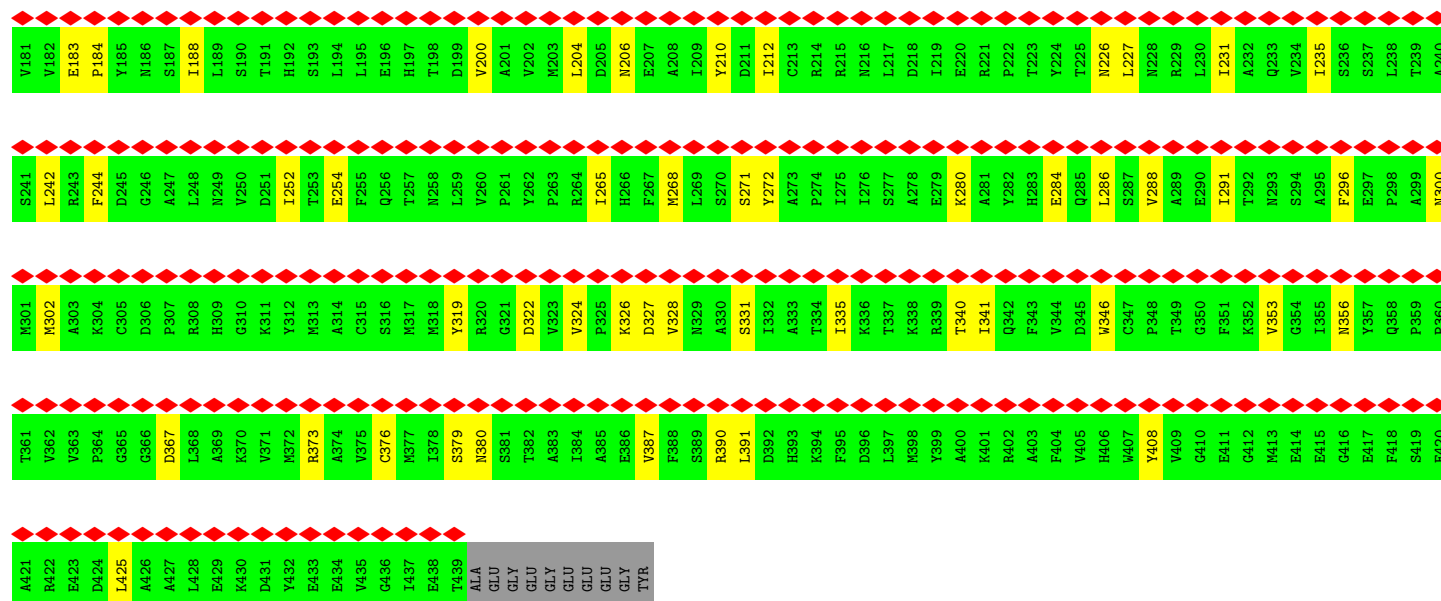


• Molecule 45: Tubulin alpha chain

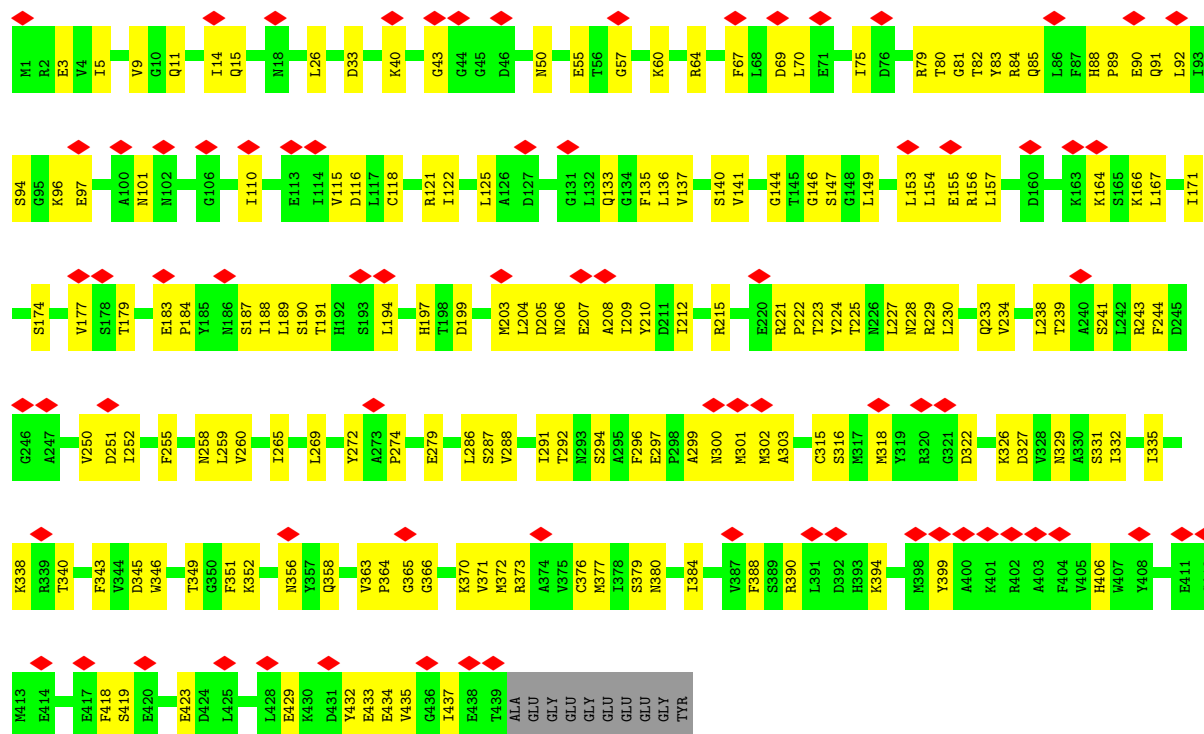


• Molecule 45: Tubulin alpha chain



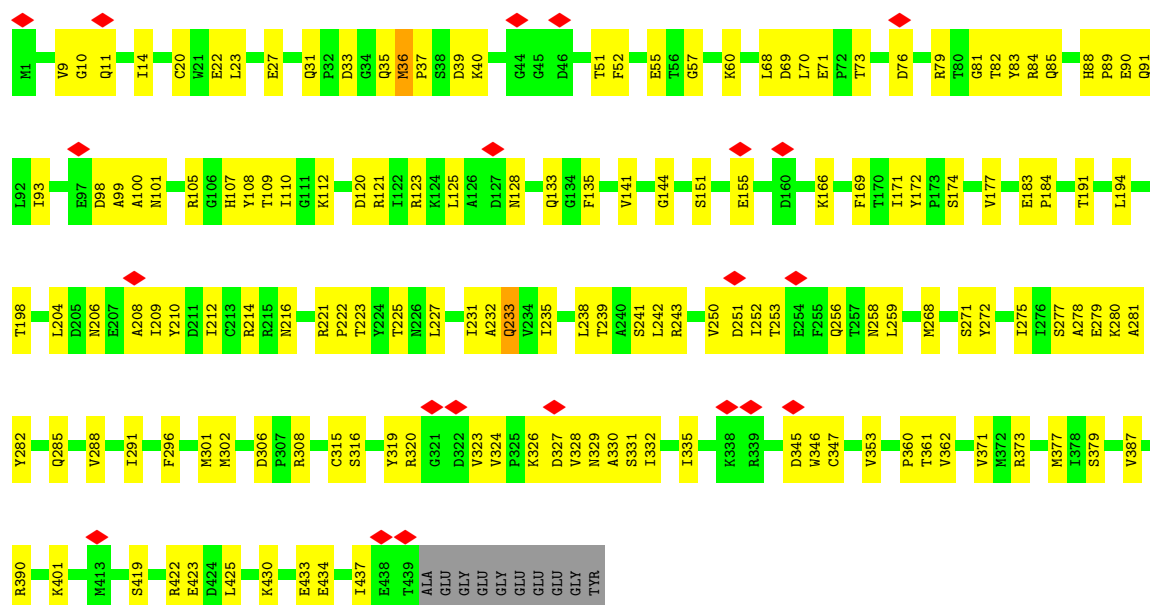


• Molecule 45: Tubulin alpha chain

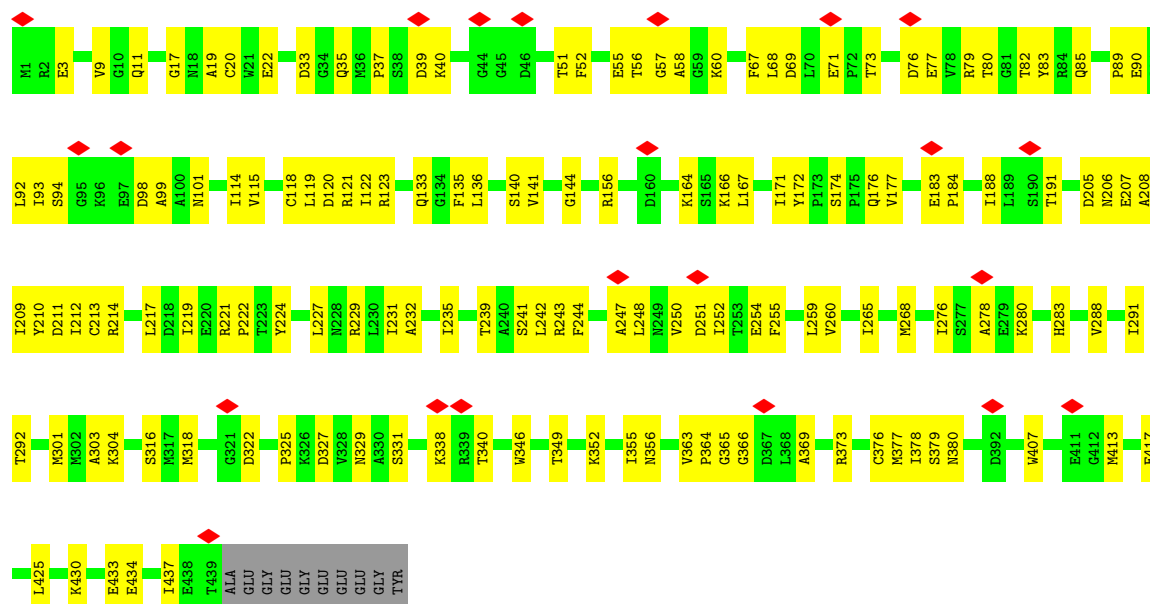


• Molecule 45: Tubulin alpha chain

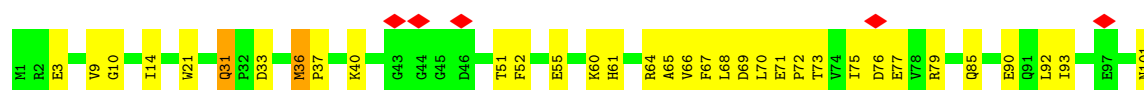


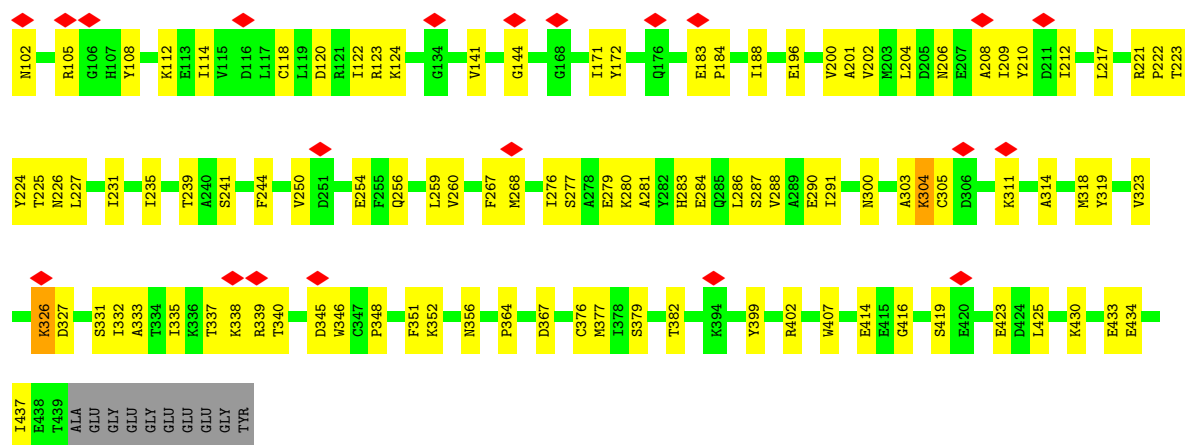


• Molecule 45: Tubulin alpha chain

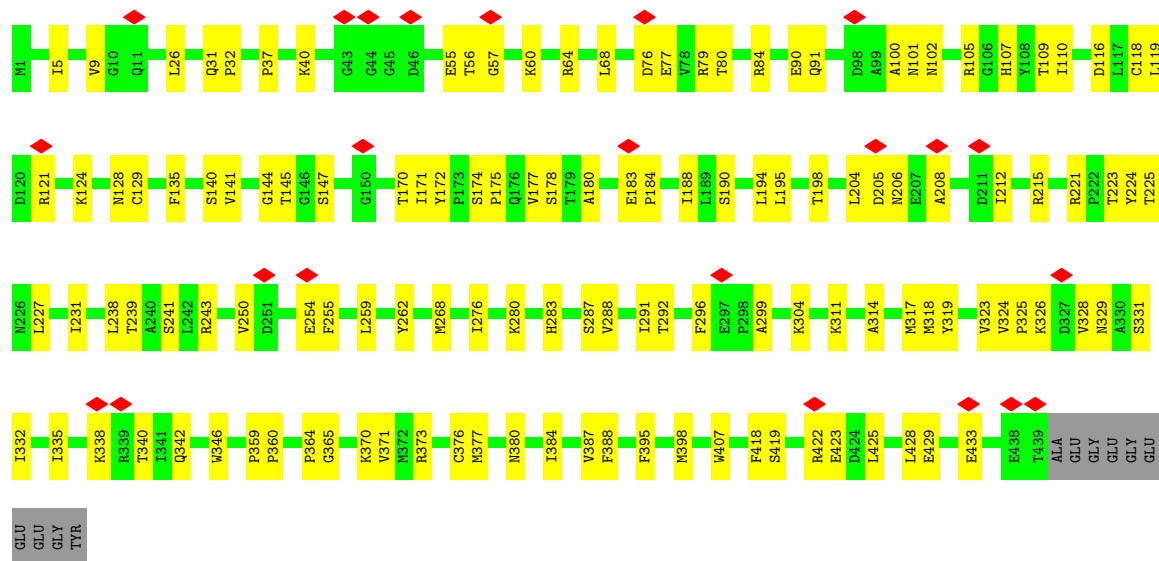


• Molecule 45: Tubulin alpha chain

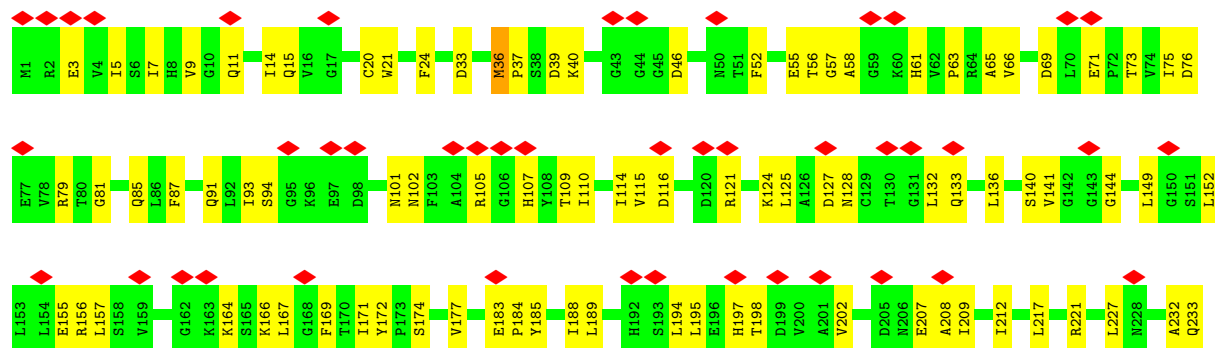


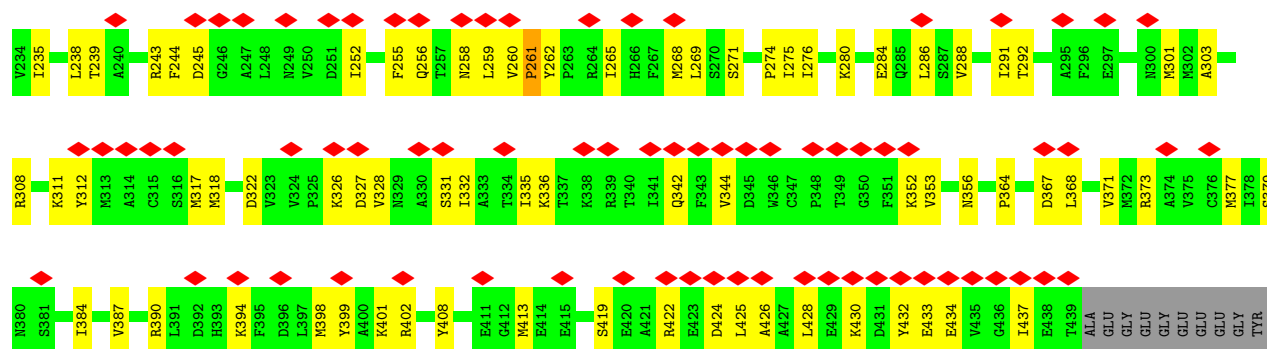


- Molecule 45: Tubulin alpha chain

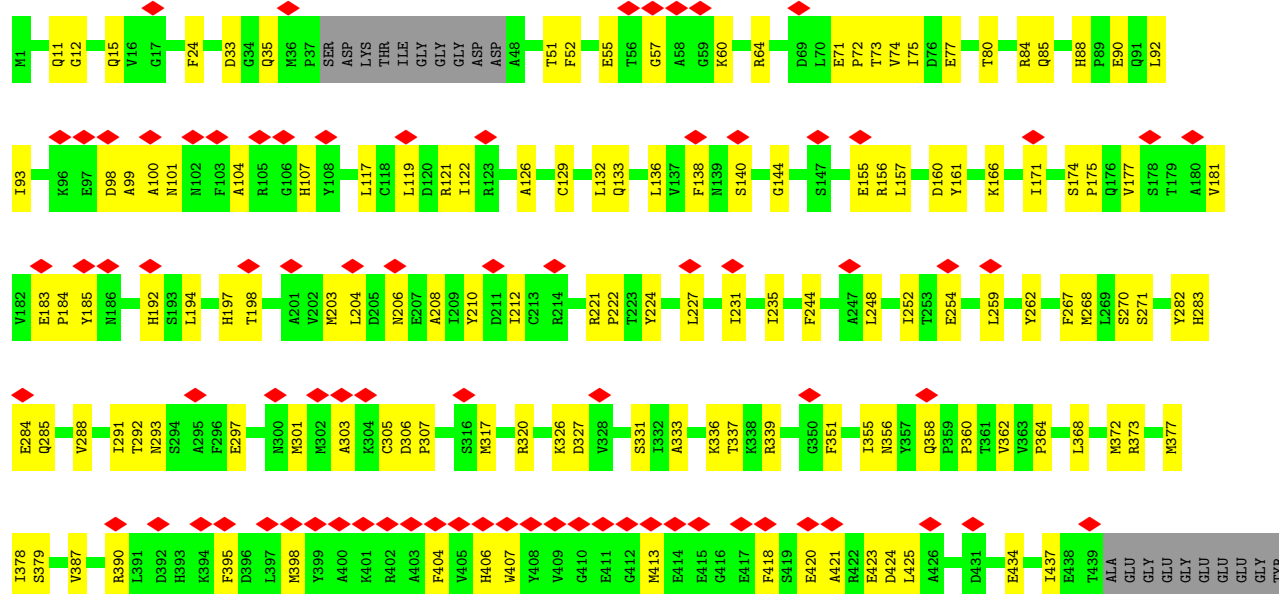


- Molecule 45: Tubulin alpha chain

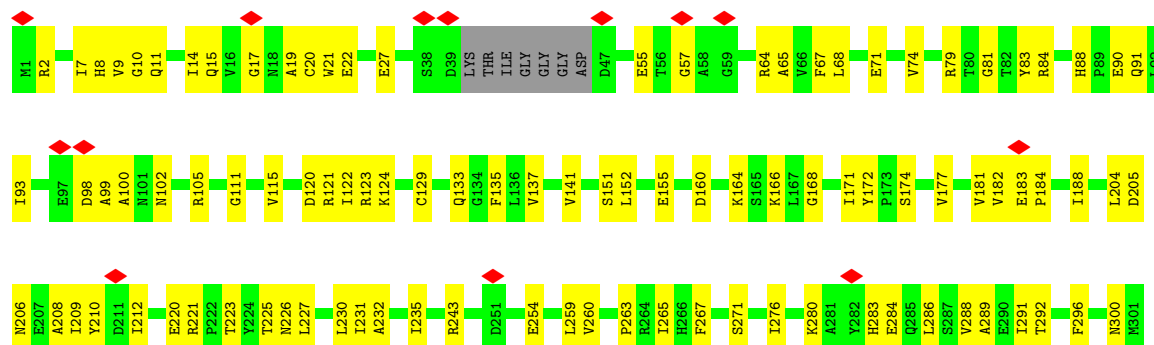




• Molecule 45: Tubulin alpha chain

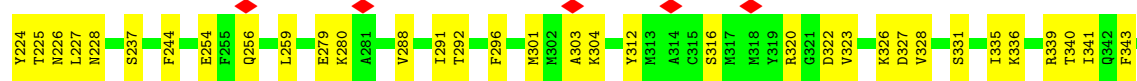
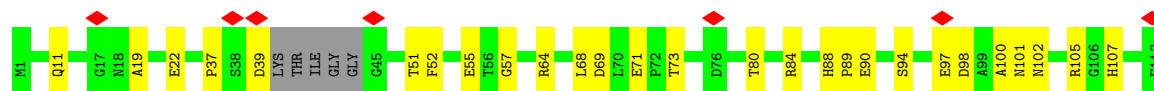


• Molecule 45: Tubulin alpha chain

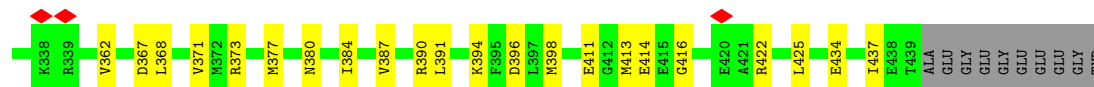
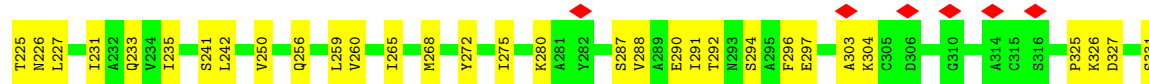
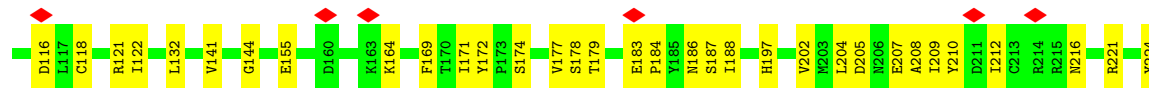
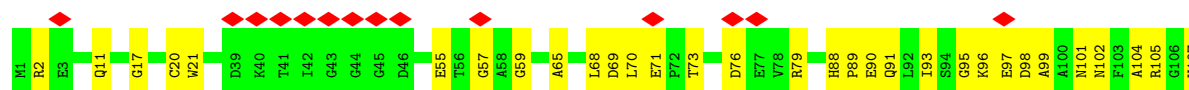
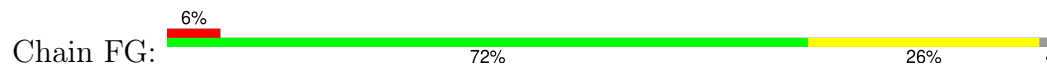




• Molecule 45: Tubulin alpha chain

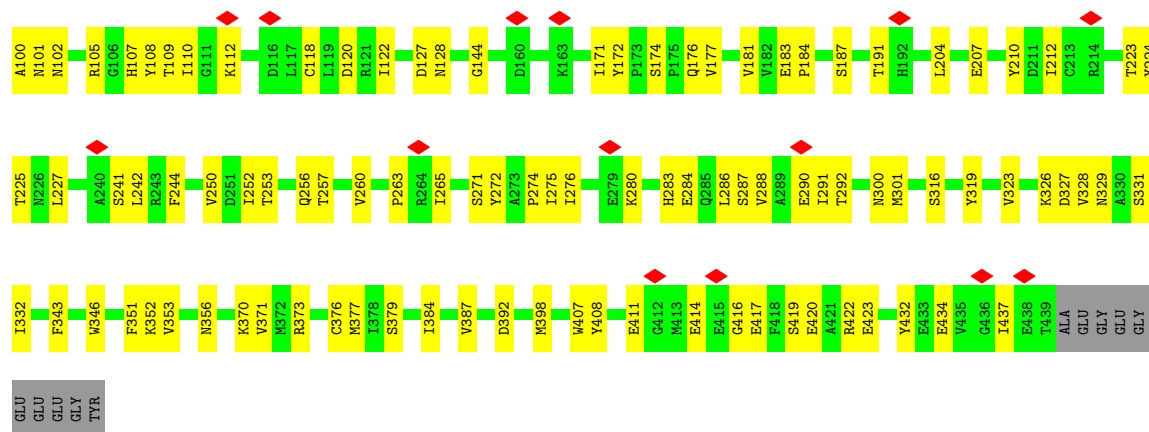


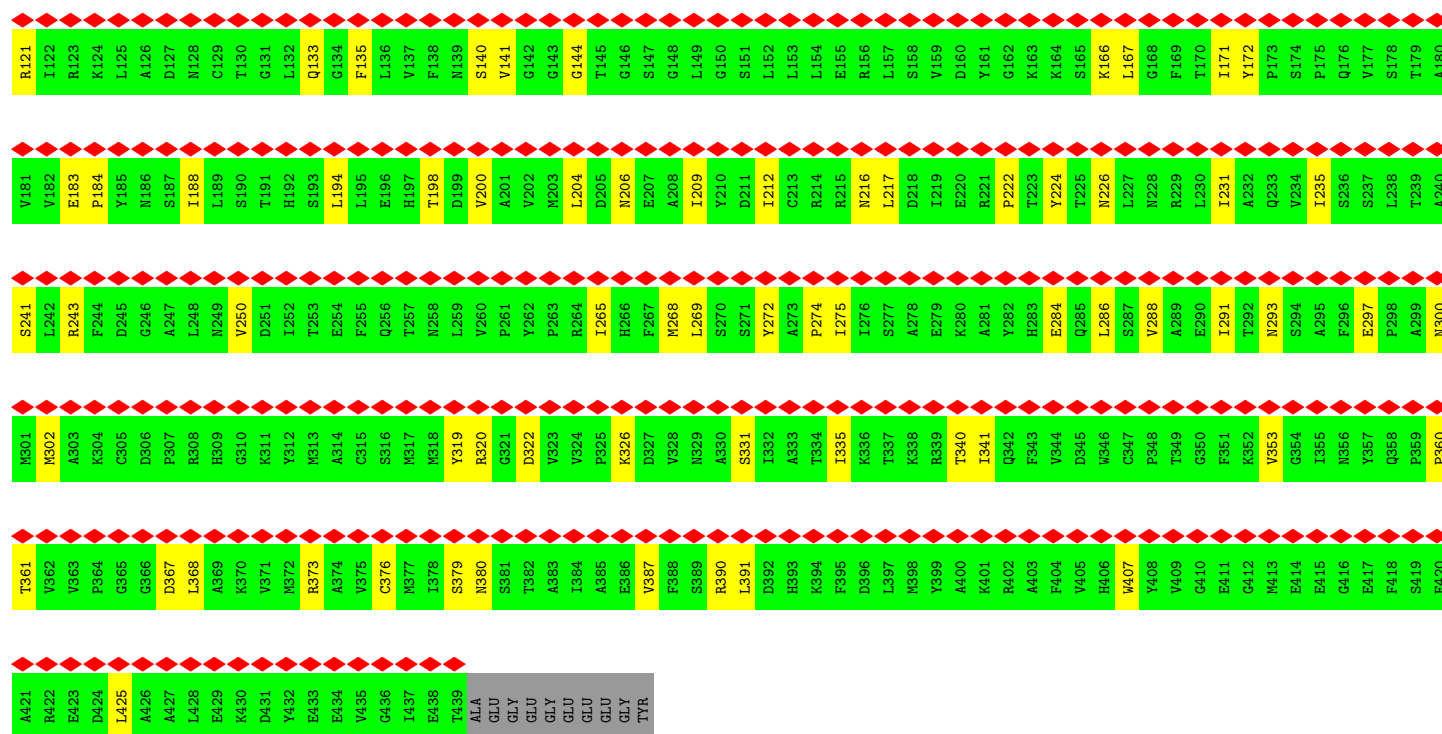
• Molecule 45: Tubulin alpha chain



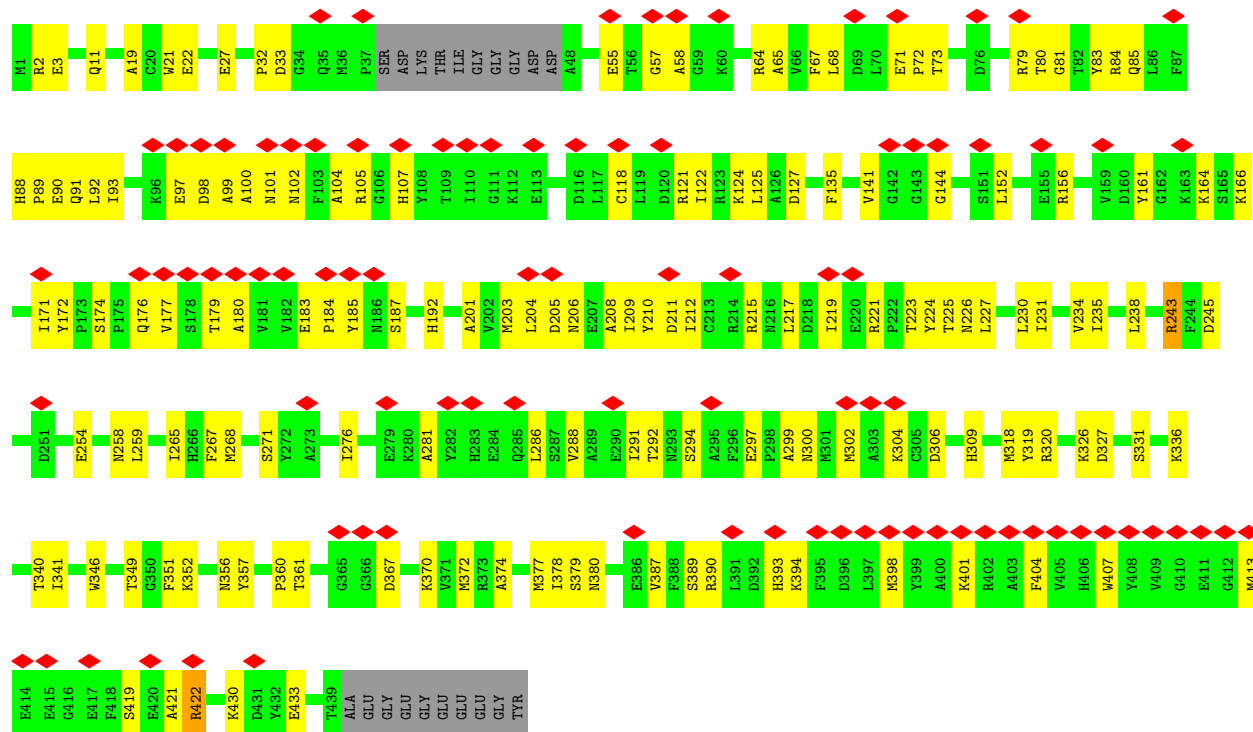
• Molecule 45: Tubulin alpha chain





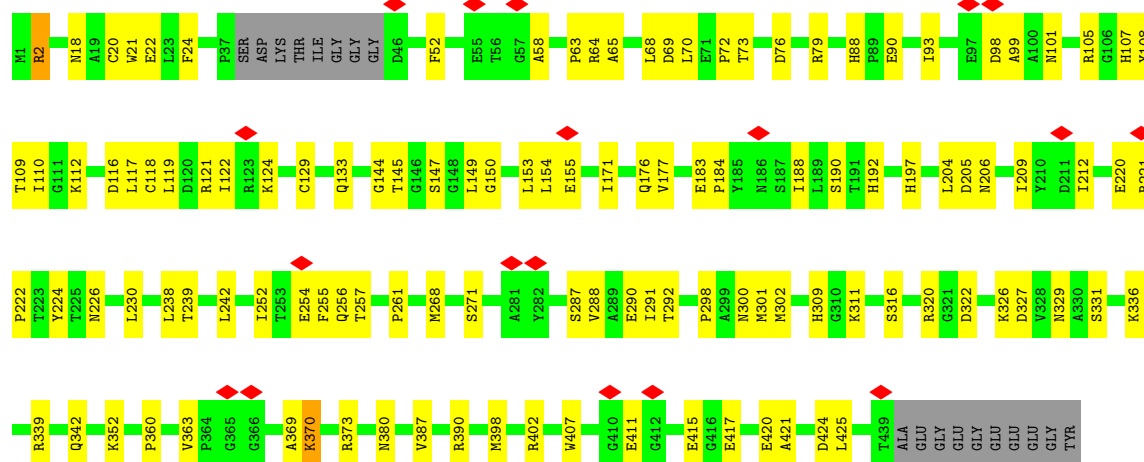


• Molecule 45: Tubulin alpha chain



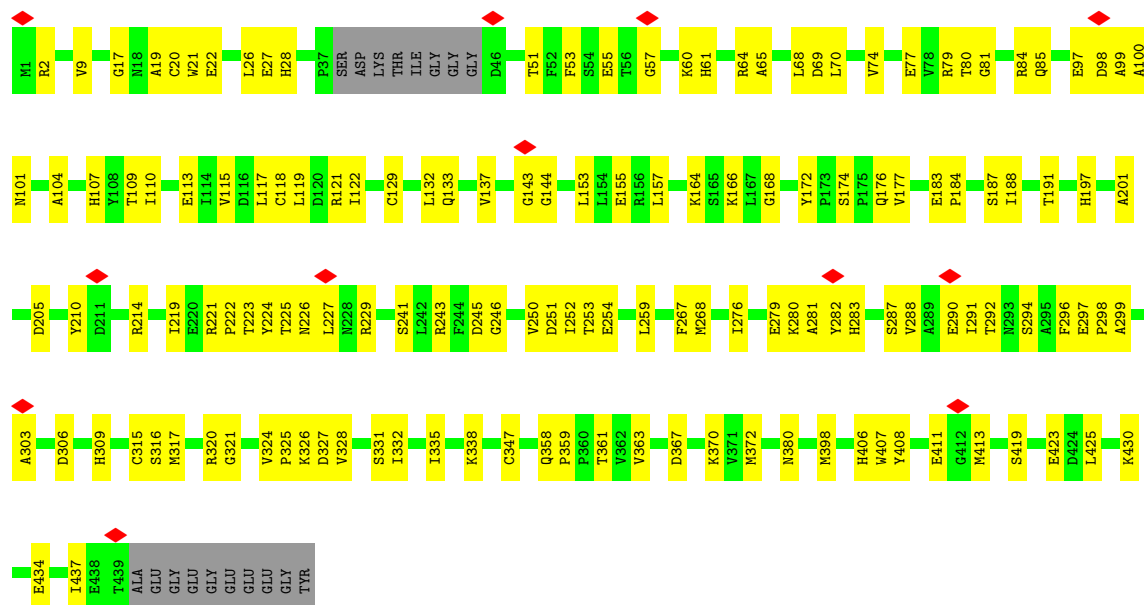
• Molecule 45: Tubulin alpha chain

Chain GC: 



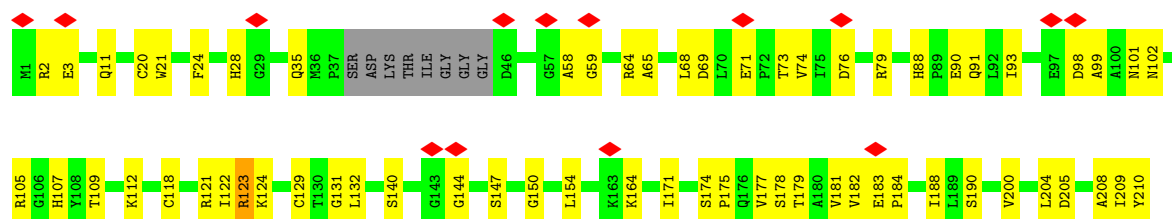
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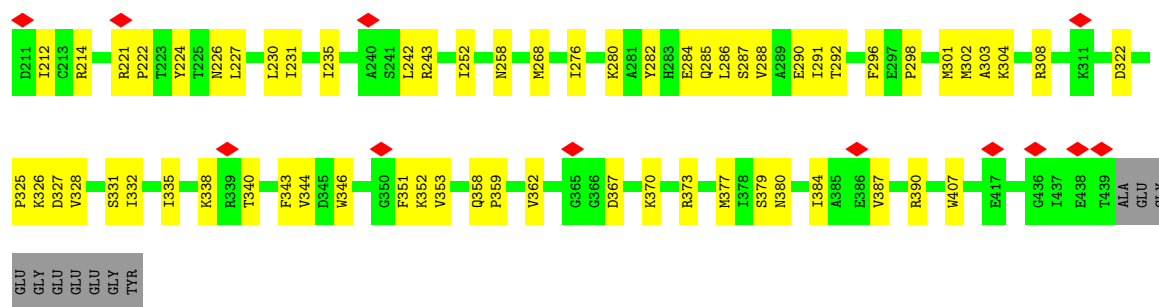
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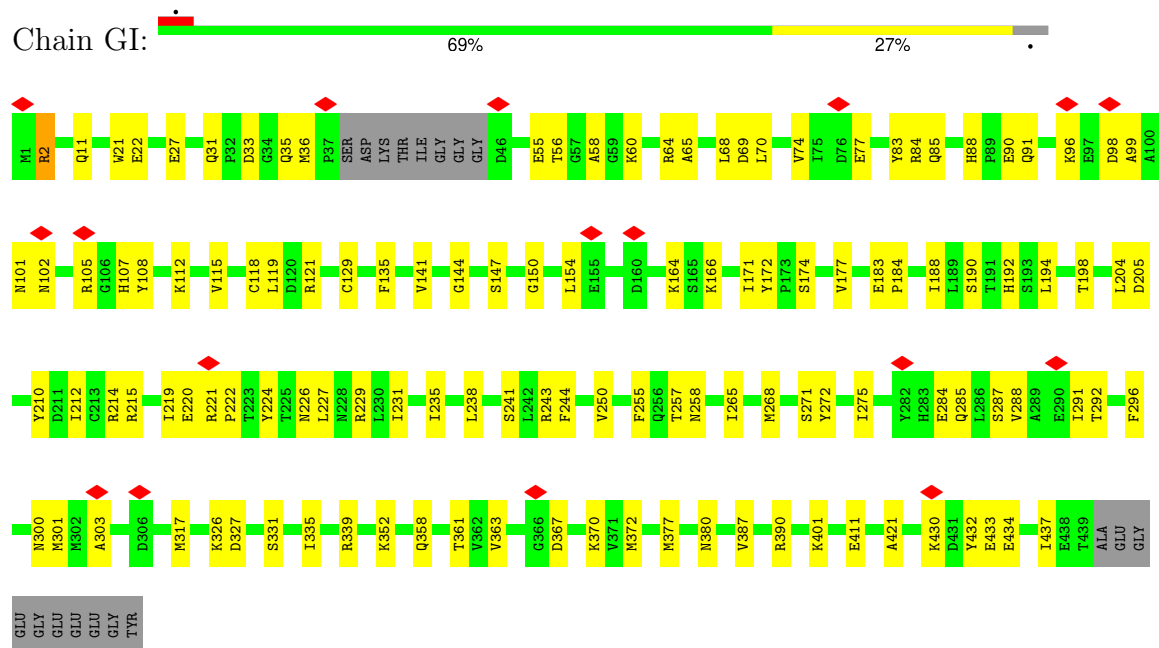
• Molecule 45: Tubulin alpha chain

Chain GG: 

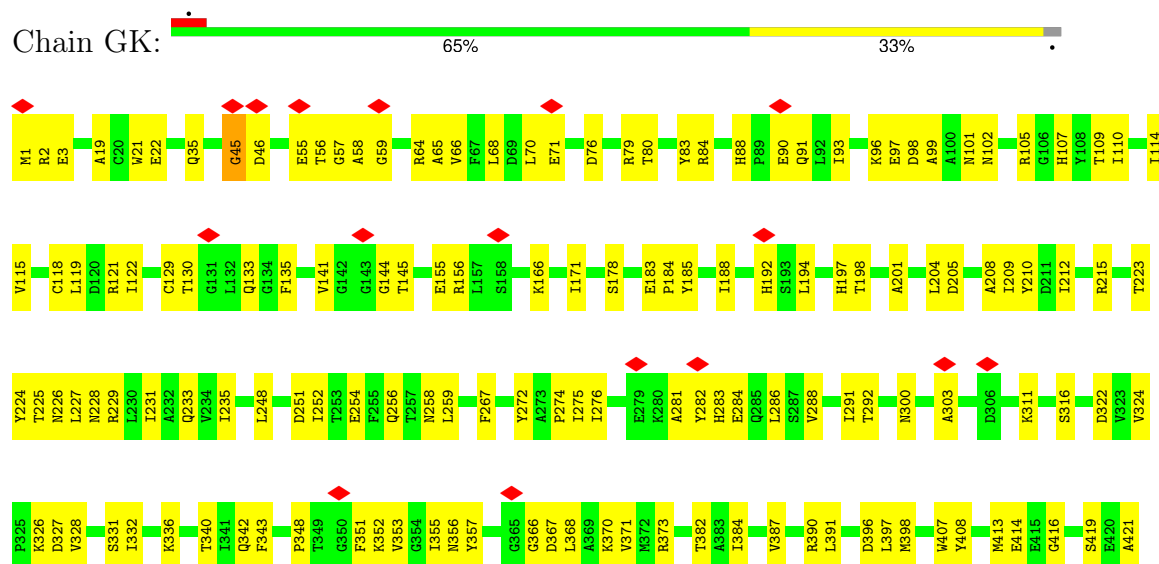


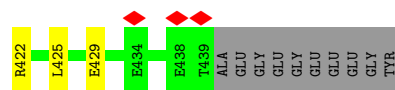


• Molecule 45: Tubulin alpha chain

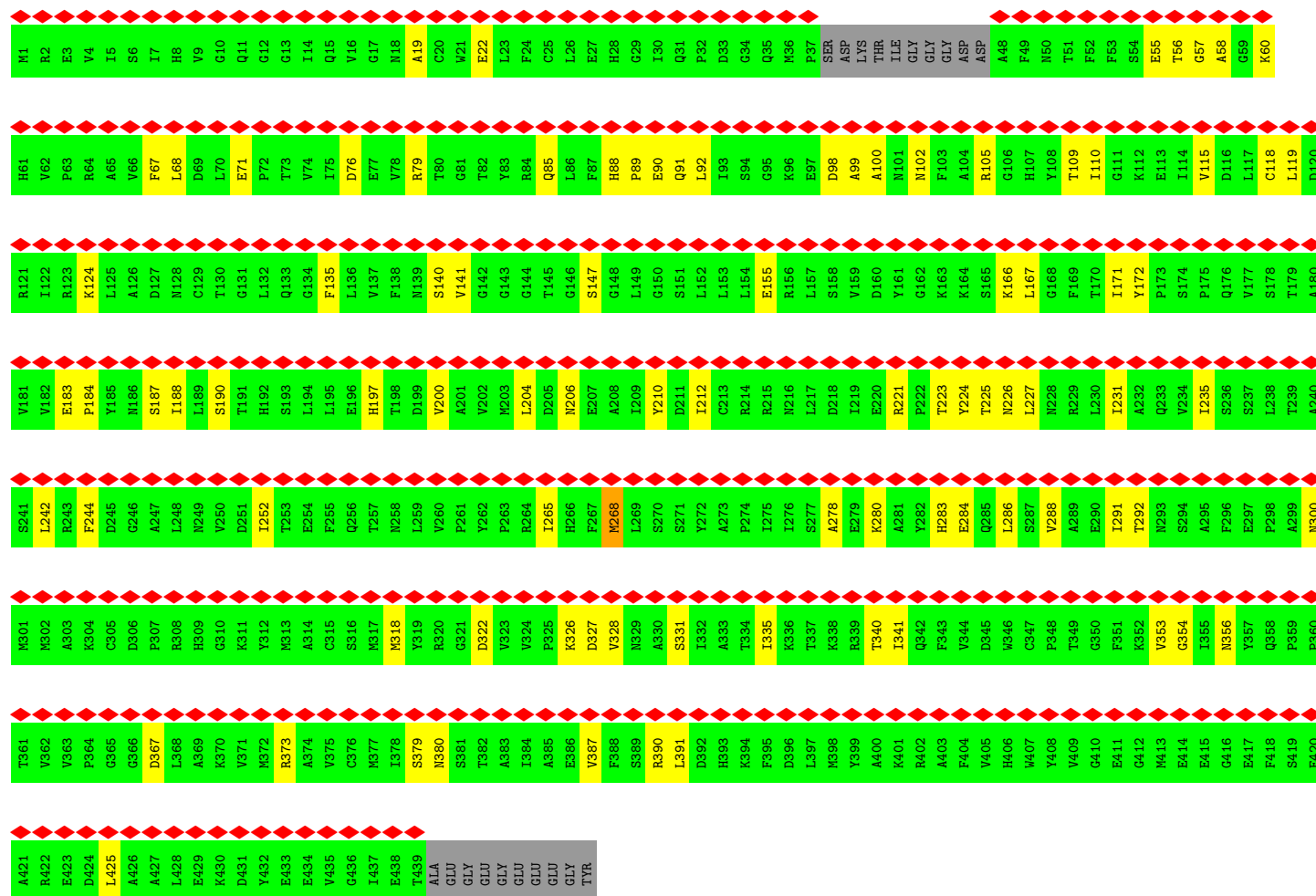
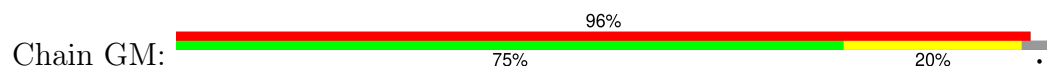


• Molecule 45: Tubulin alpha chain

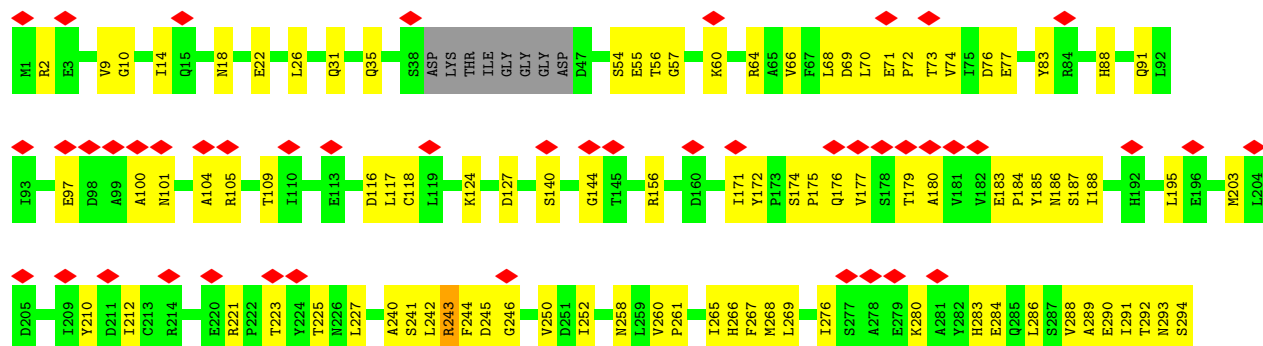


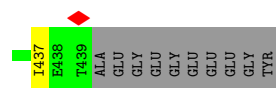


• Molecule 45: Tubulin alpha chain

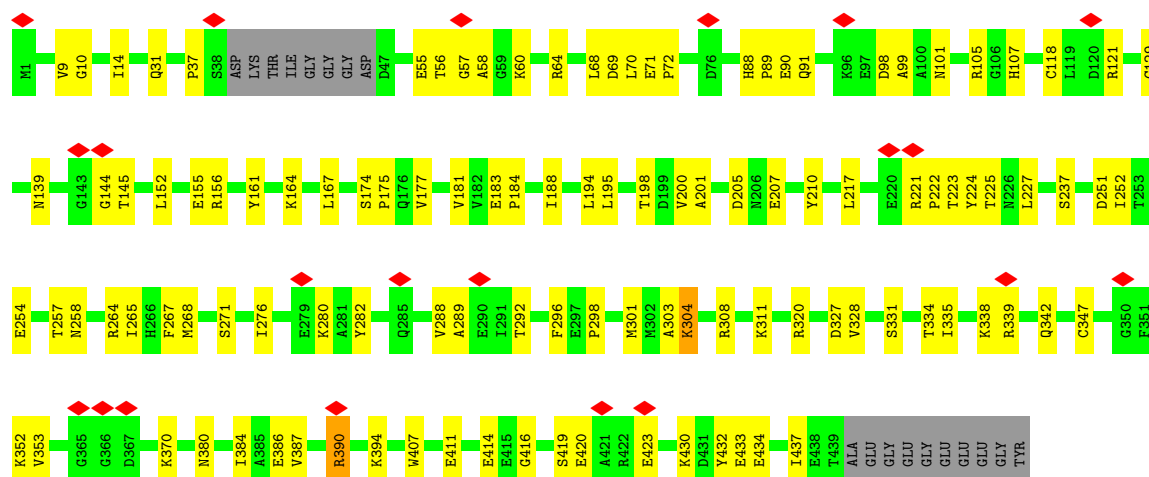
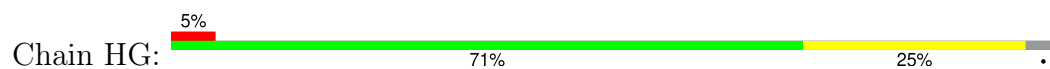


• Molecule 45: Tubulin alpha chain

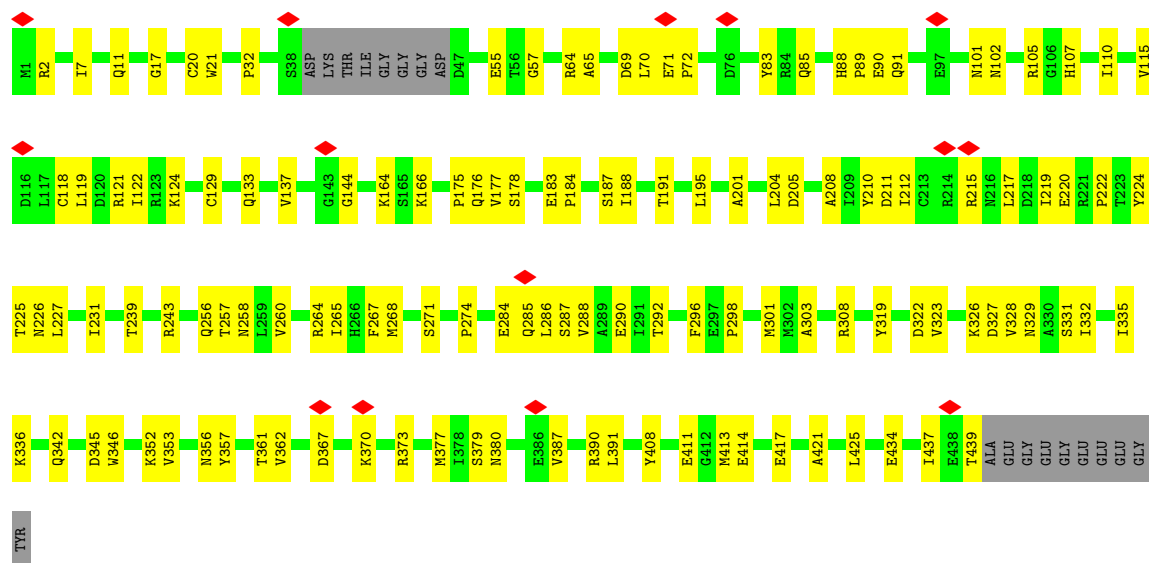




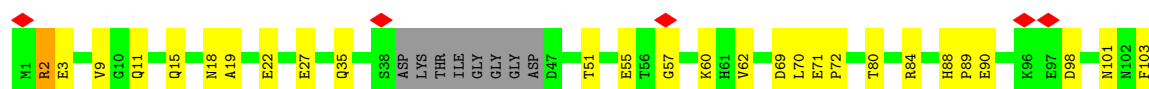
• Molecule 45: Tubulin alpha chain

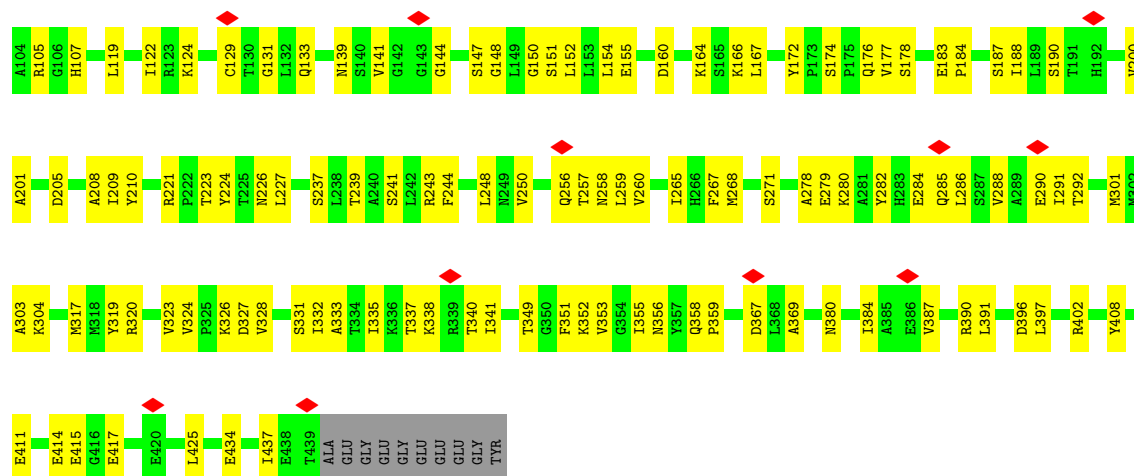


• Molecule 45: Tubulin alpha chain

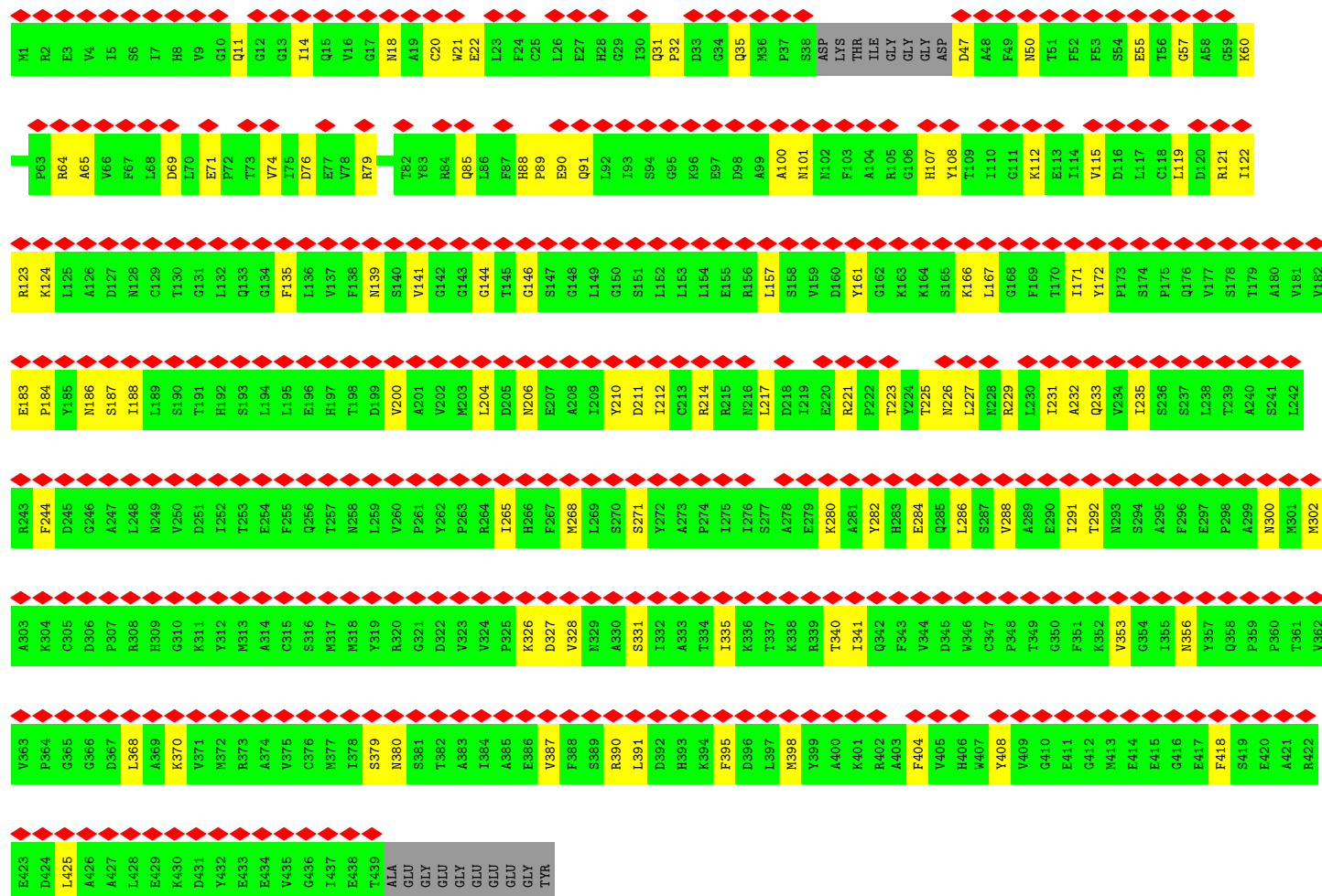
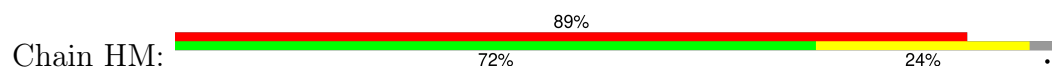


• Molecule 45: Tubulin alpha chain



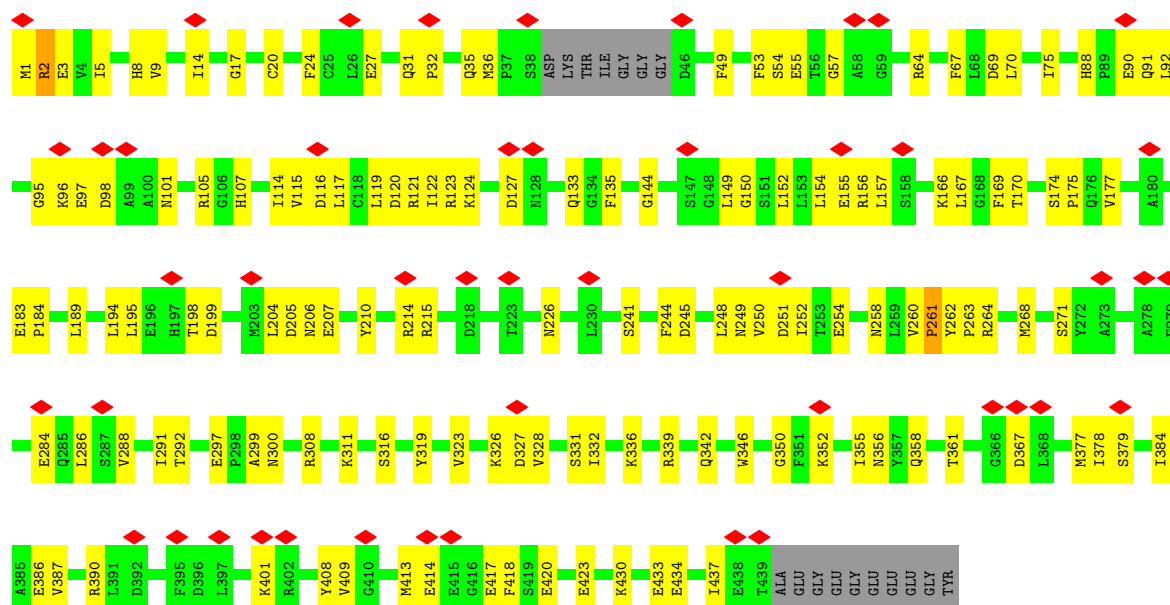


• Molecule 45: Tubulin alpha chain



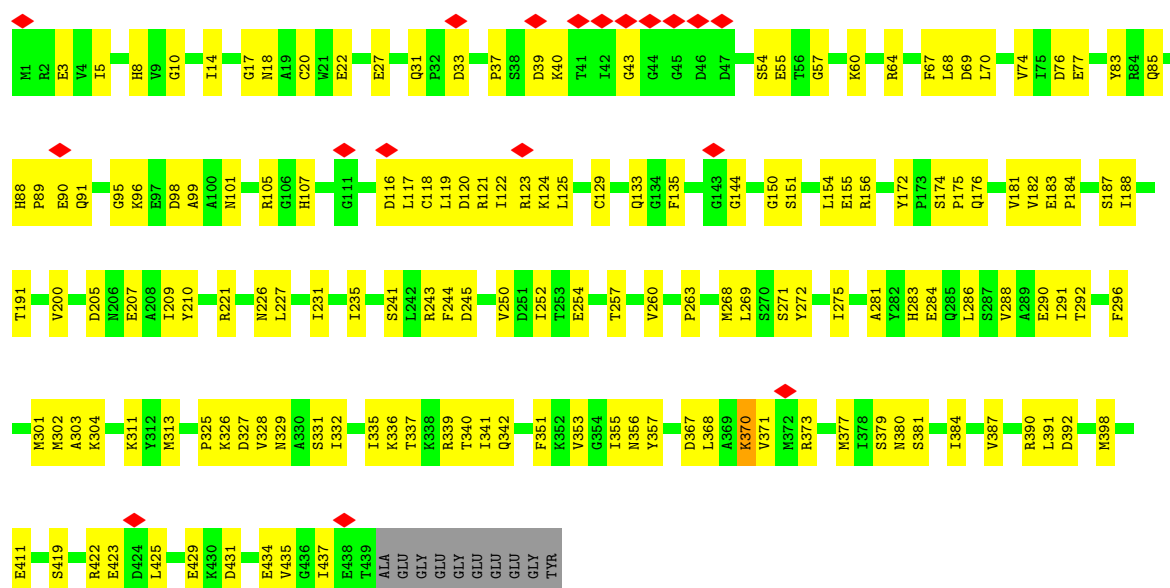
• Molecule 45: Tubulin alpha chain





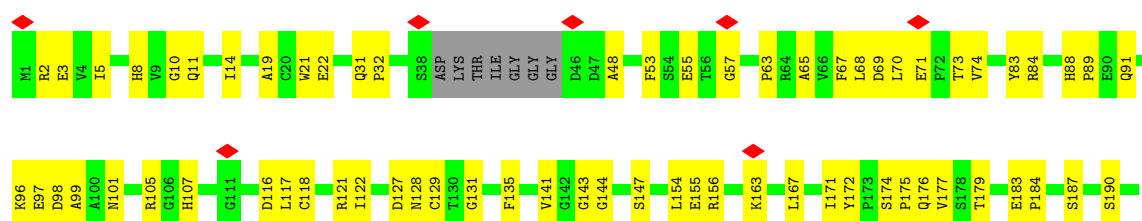
• Molecule 45: Tubulin alpha chain

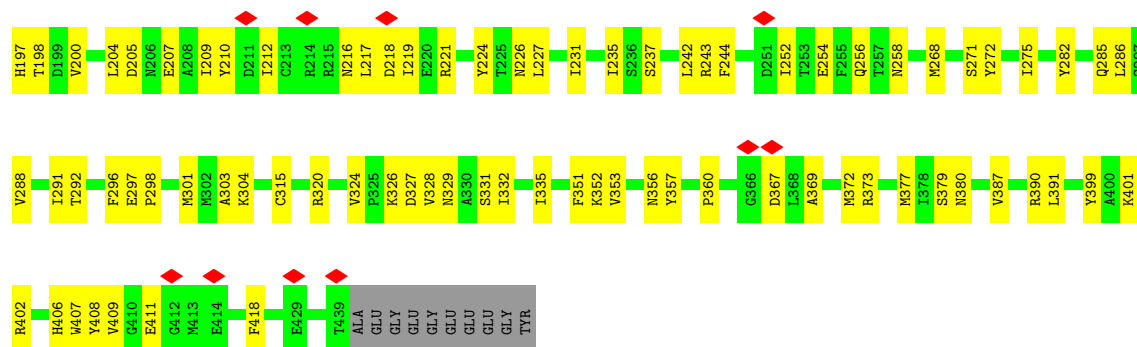
Chain IC: 63% 34%



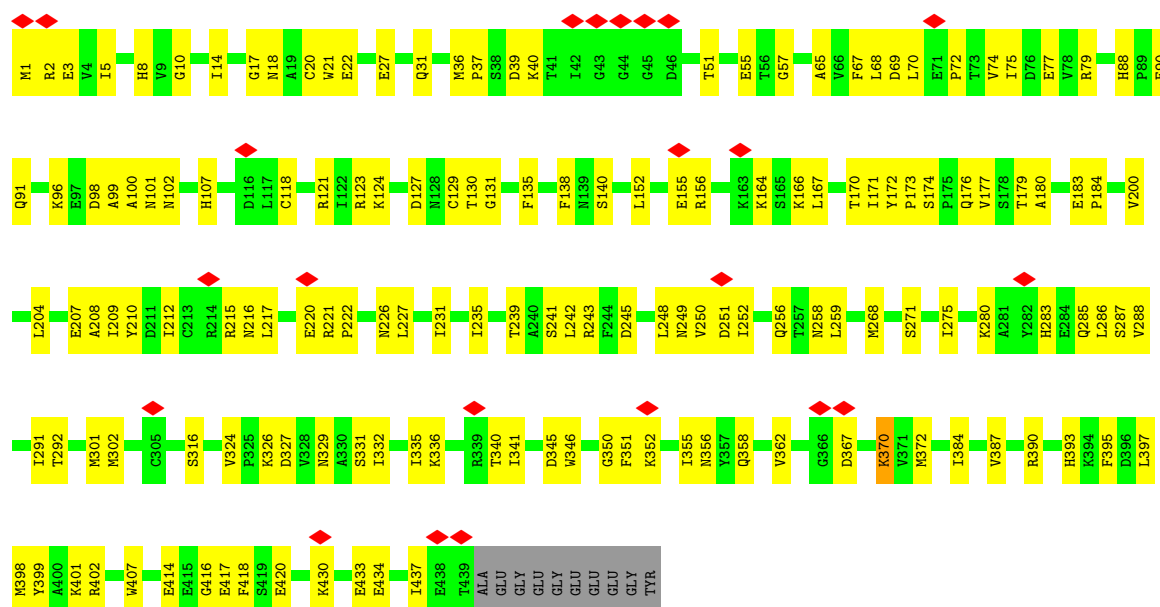
• Molecule 45: Tubulin alpha chain

Chain IE: 64% 32%

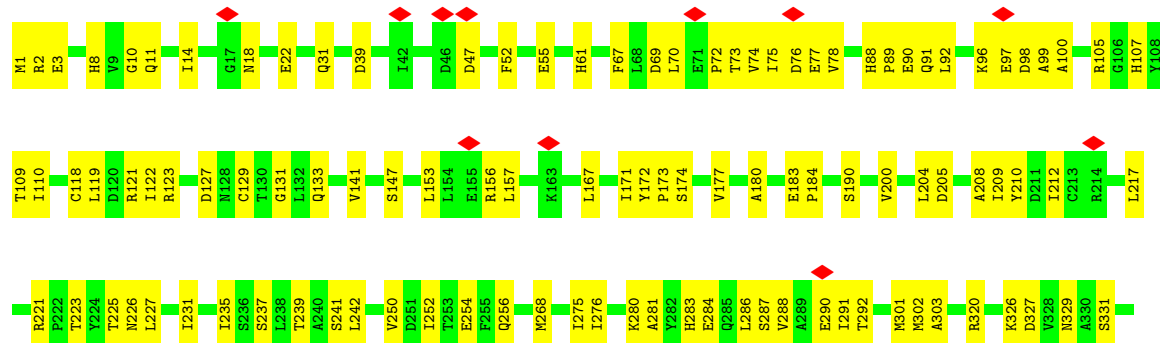


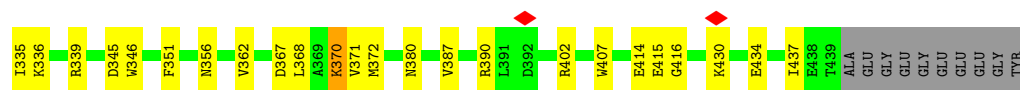


• Molecule 45: Tubulin alpha chain

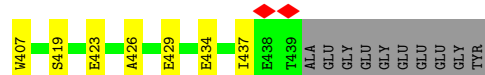
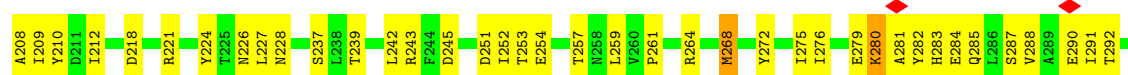
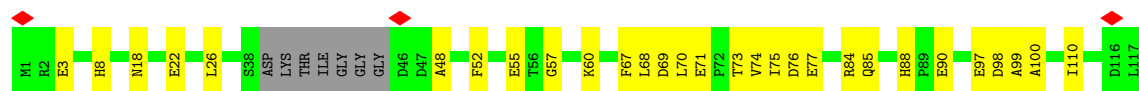


• Molecule 45: Tubulin alpha chain

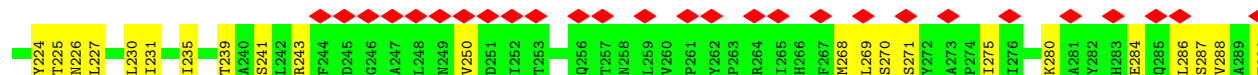
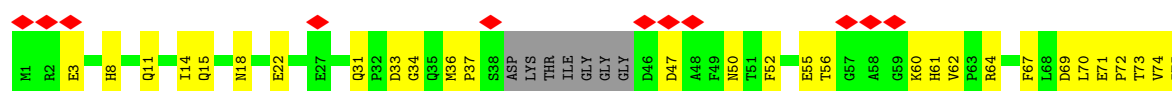


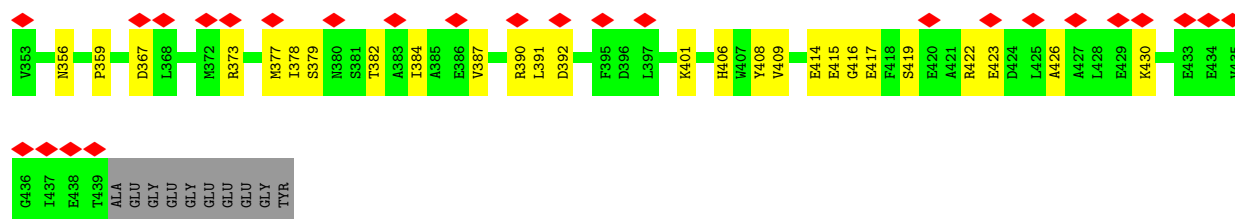


• Molecule 45: Tubulin alpha chain



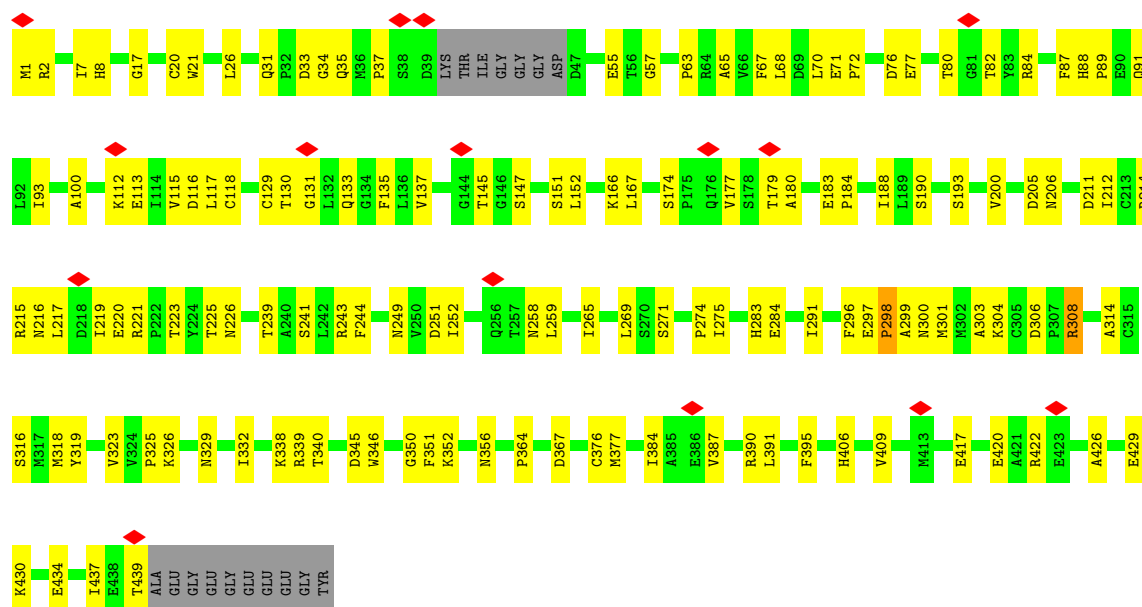
• Molecule 45: Tubulin alpha chain





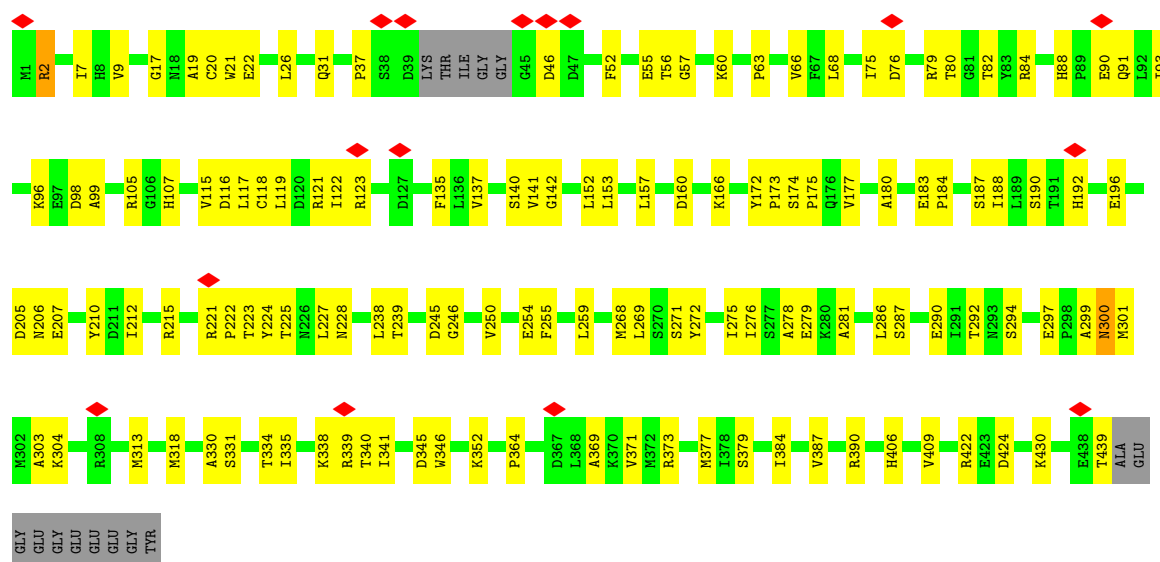
• Molecule 45: Tubulin alpha chain

Chain JA: 65% 31%

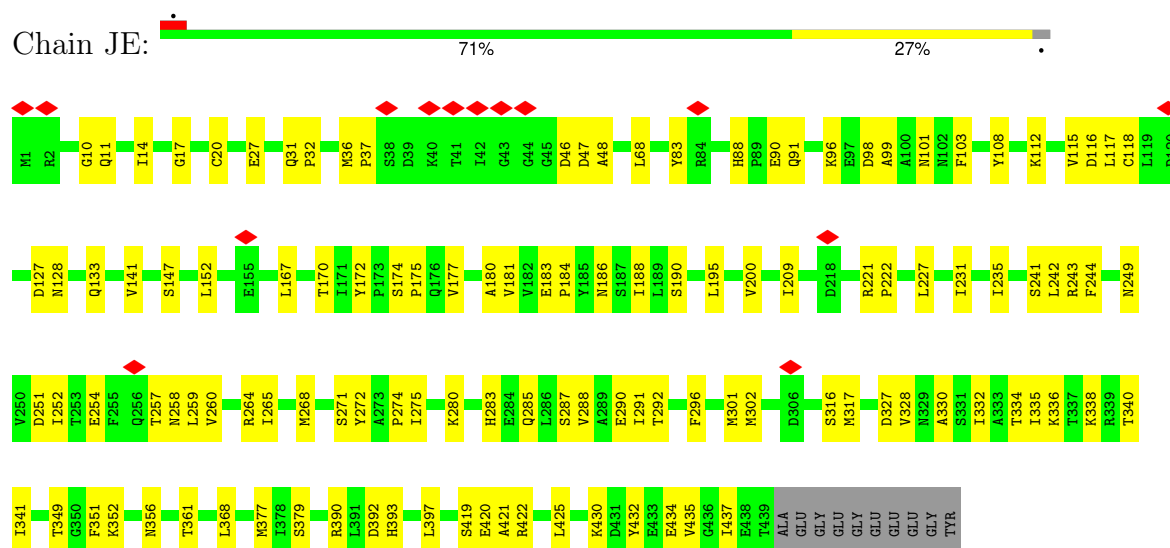


• Molecule 45: Tubulin alpha chain

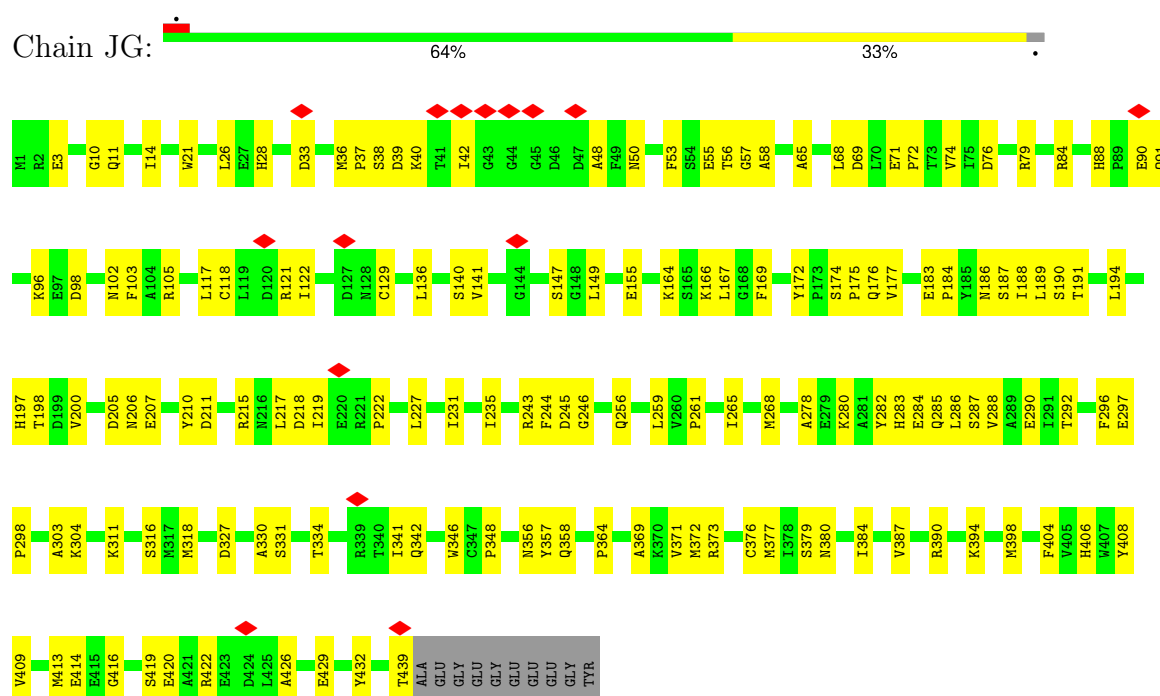
Chain JC: 67% 30%



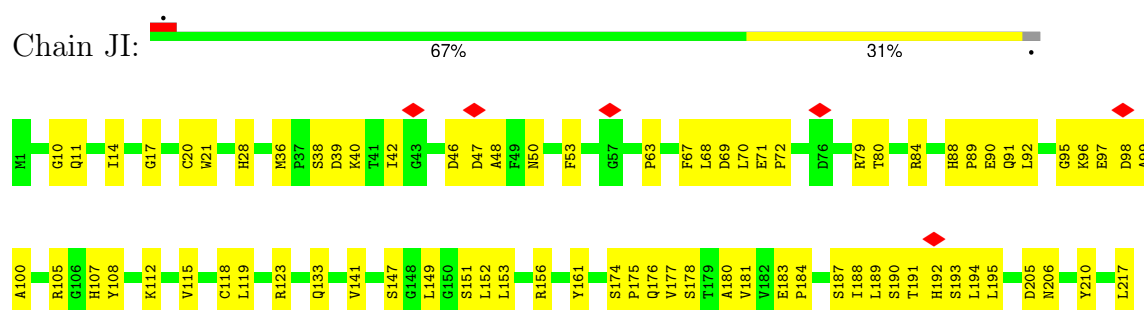
- Molecule 45: Tubulin alpha chain



- Molecule 45: Tubulin alpha chain



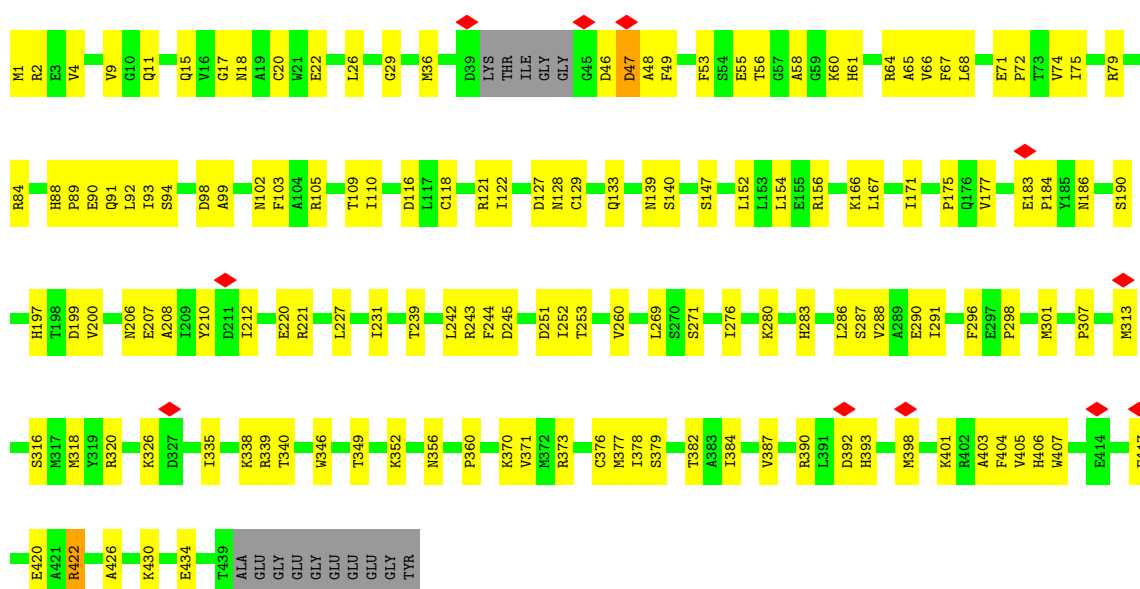
- Molecule 45: Tubulin alpha chain





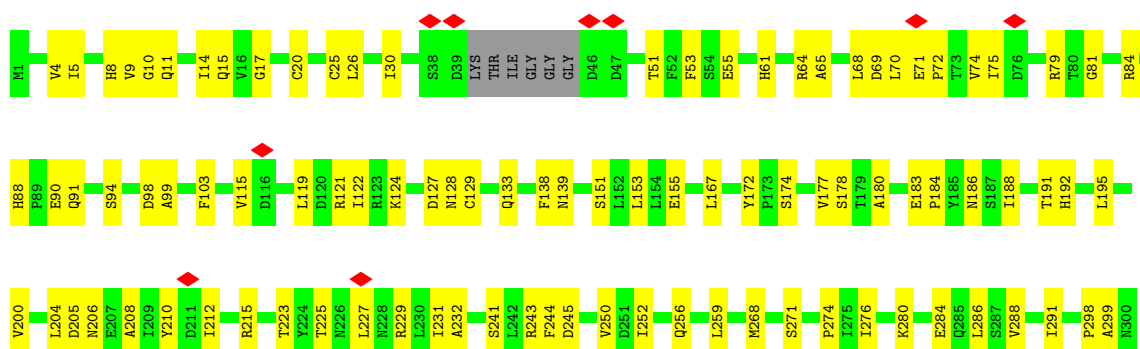
• Molecule 45: Tubulin alpha chain

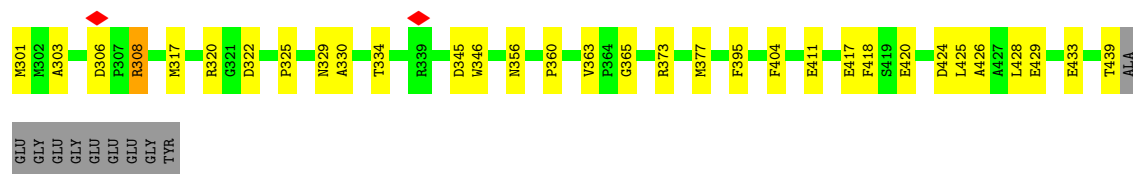
Chain KA: 64% 32%



• Molecule 45: Tubulin alpha chain

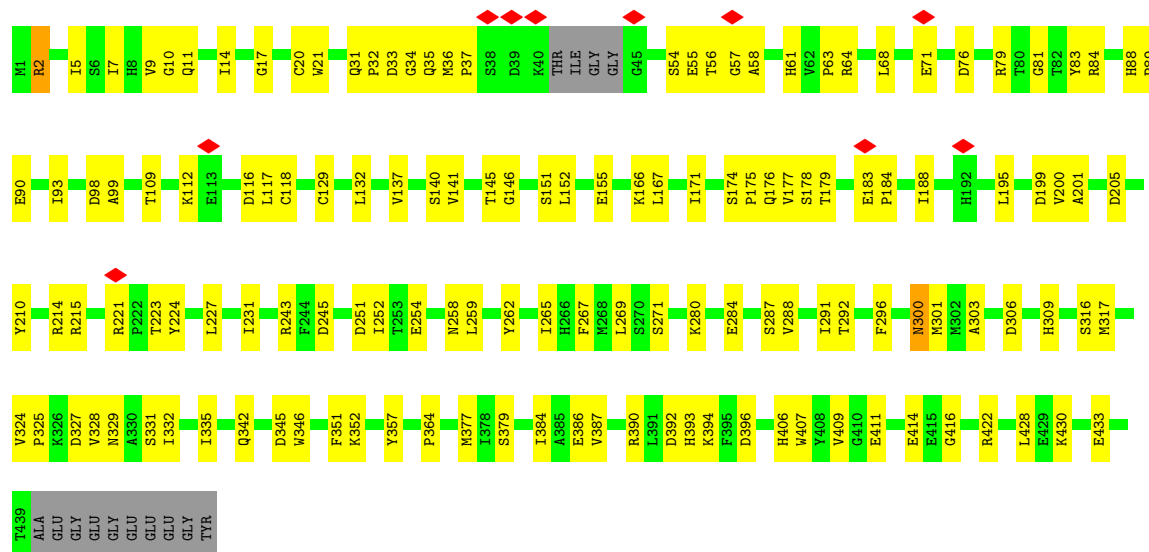
Chain KC: 68% 28%





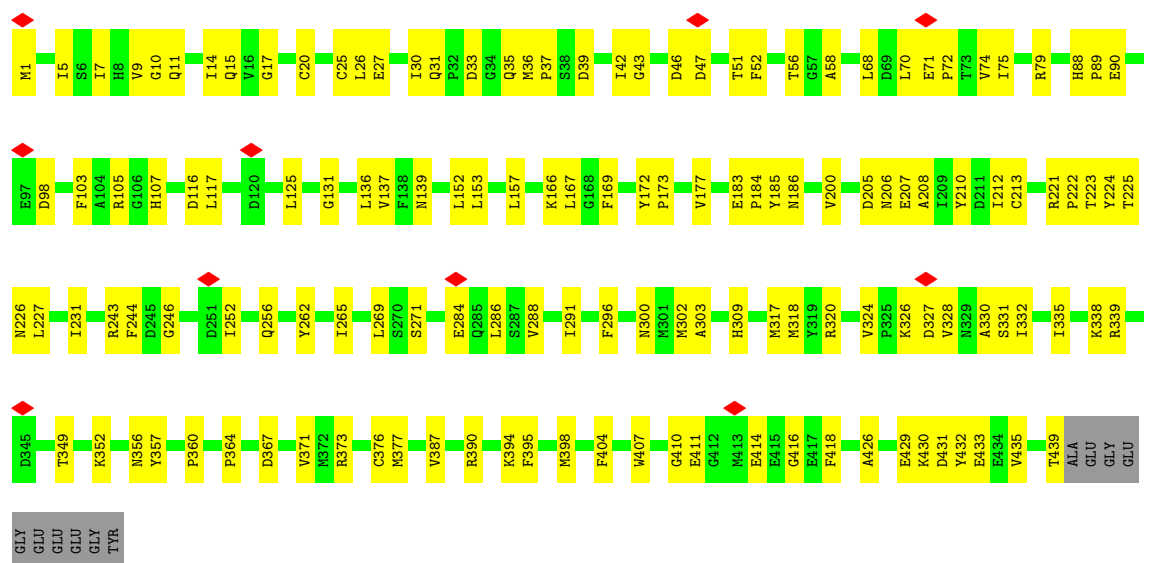
• Molecule 45: Tubulin alpha chain

Chain KE: 66% 31%

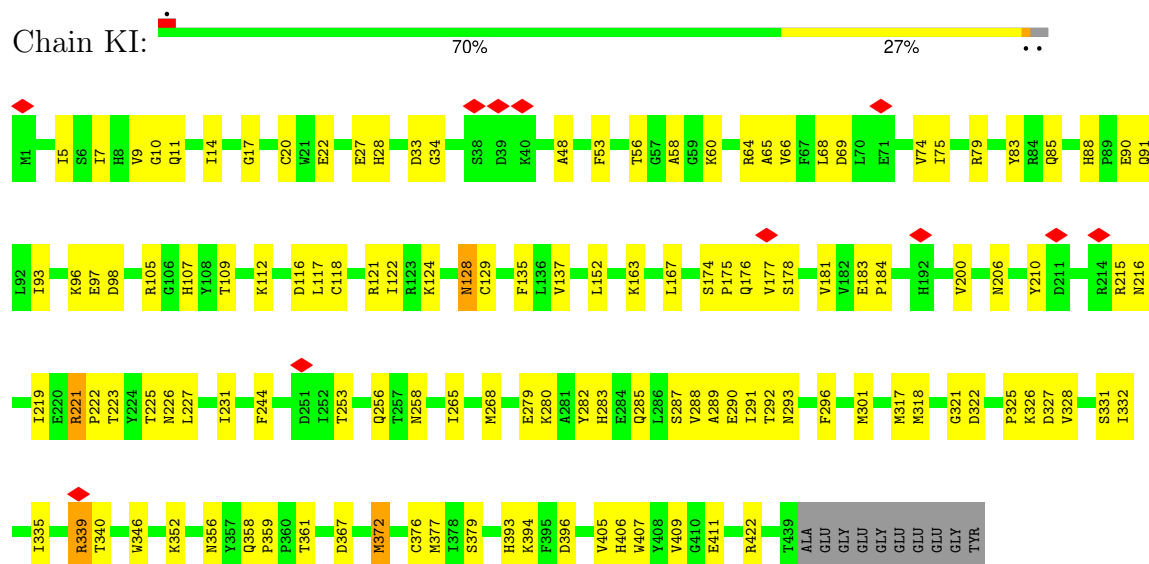


• Molecule 45: Tubulin alpha chain

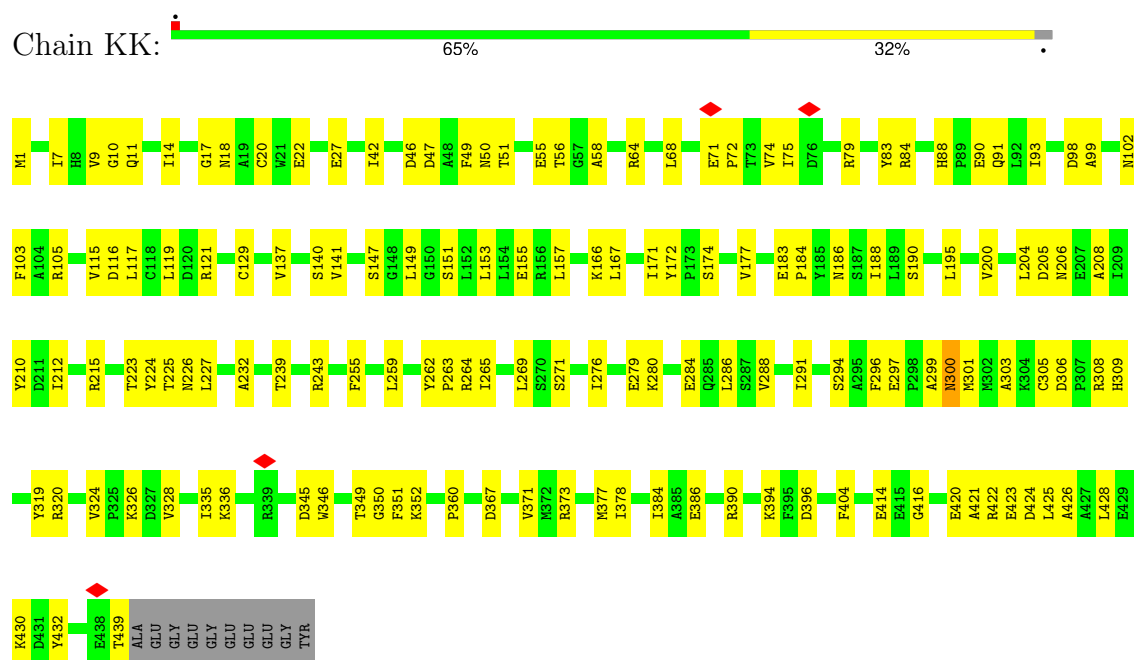
Chain KG: 67% 31%



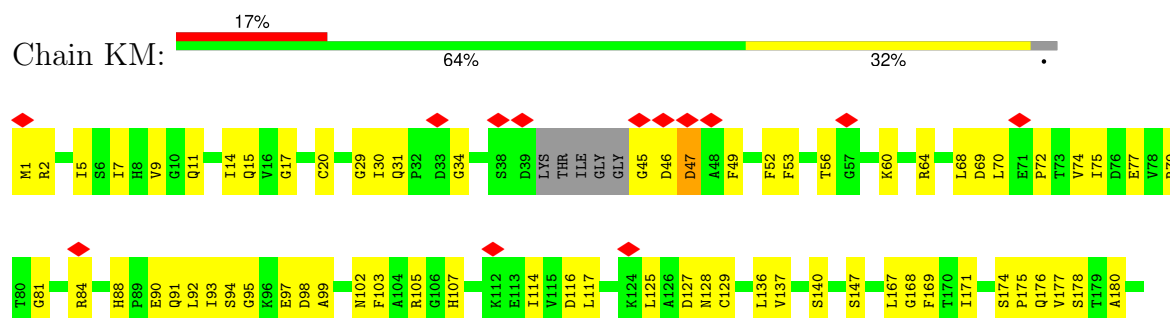
• Molecule 45: Tubulin alpha chain

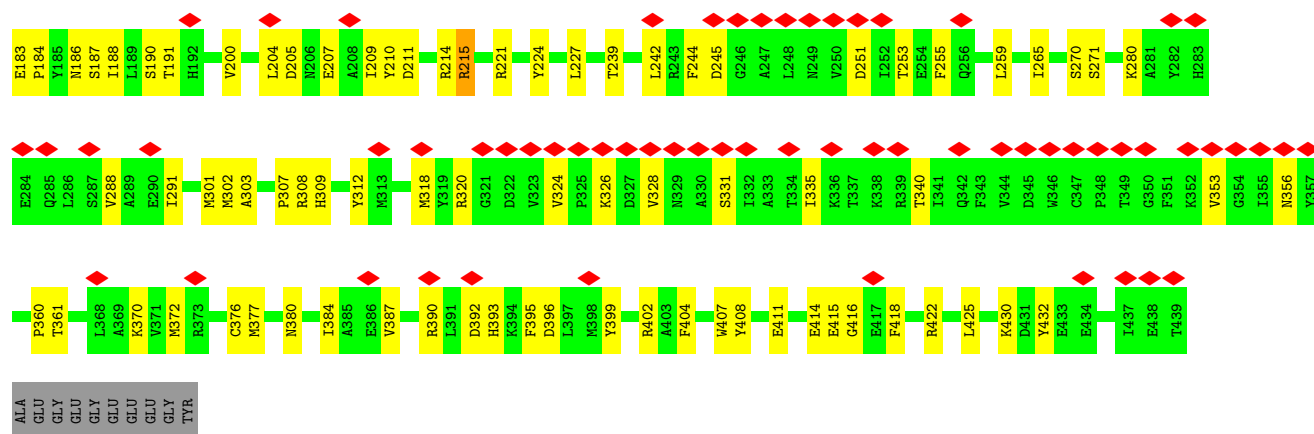


• Molecule 45: Tubulin alpha chain



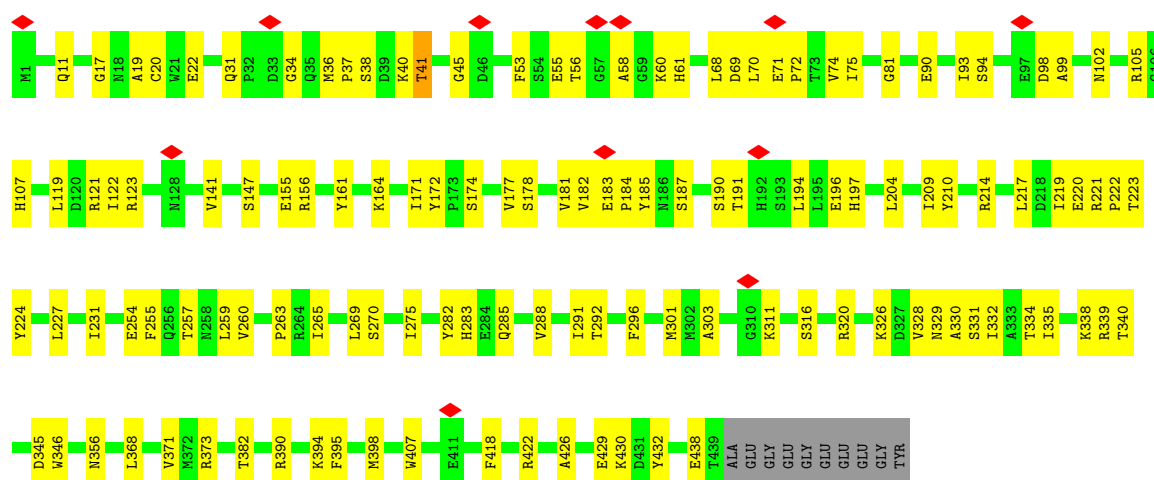
• Molecule 45: Tubulin alpha chain





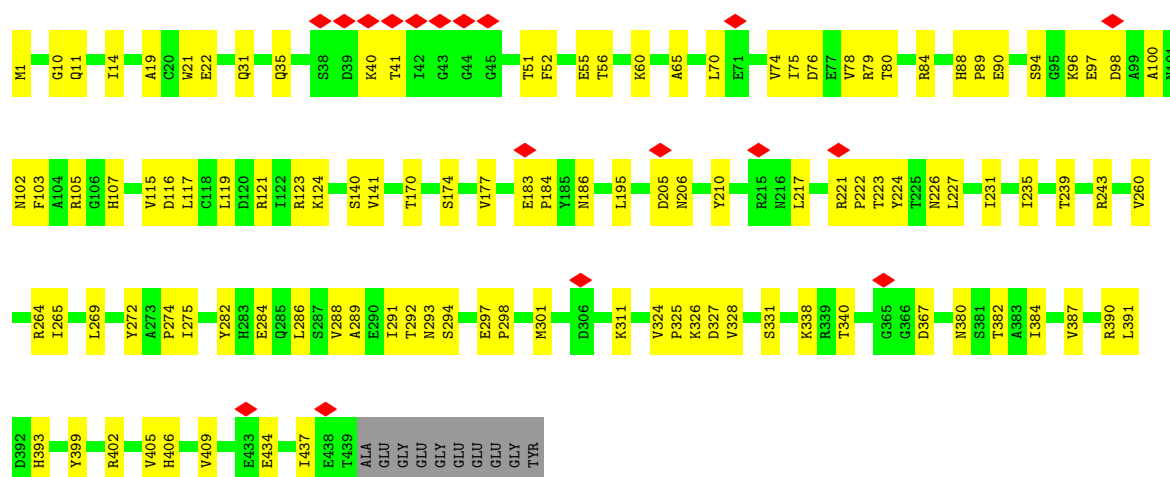
• Molecule 45: Tubulin alpha chain

Chain LA: 70% 28%



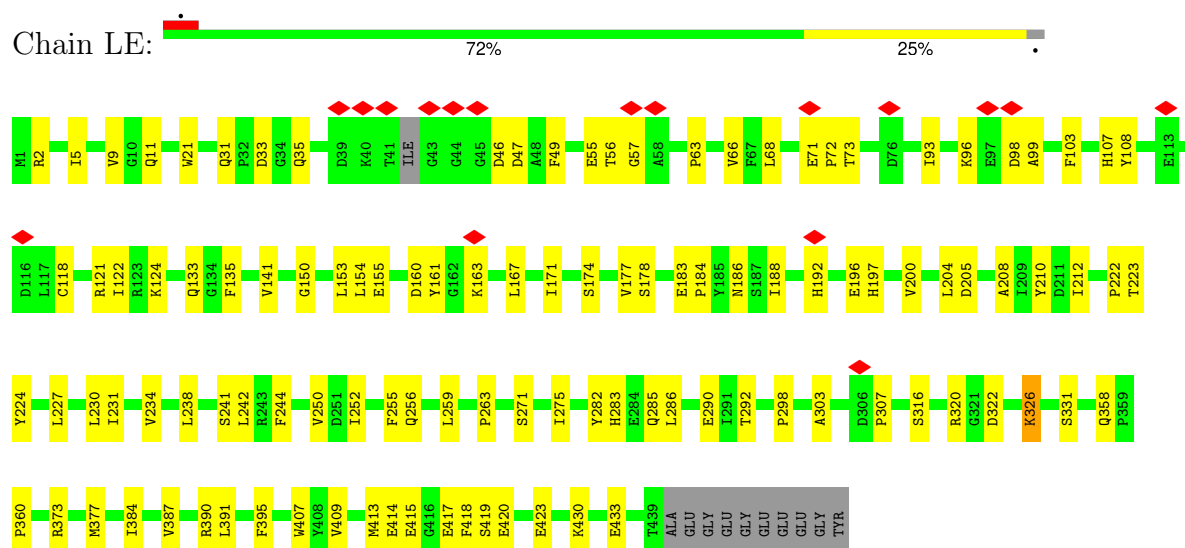
• Molecule 45: Tubulin alpha chain

Chain LC: 73% 24%



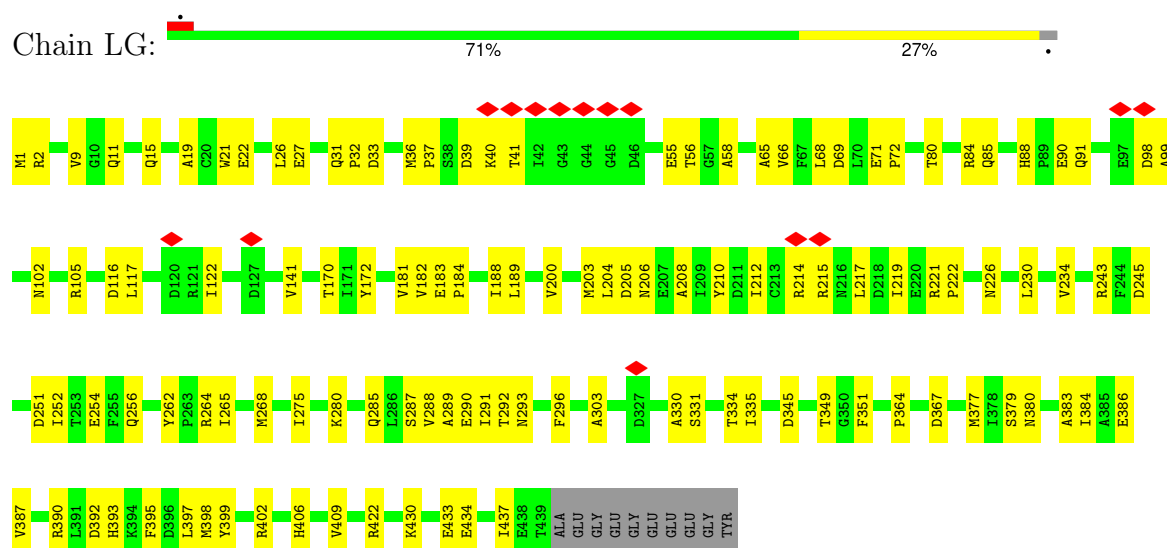
- Molecule 45: Tubulin alpha chain

Chain LE:



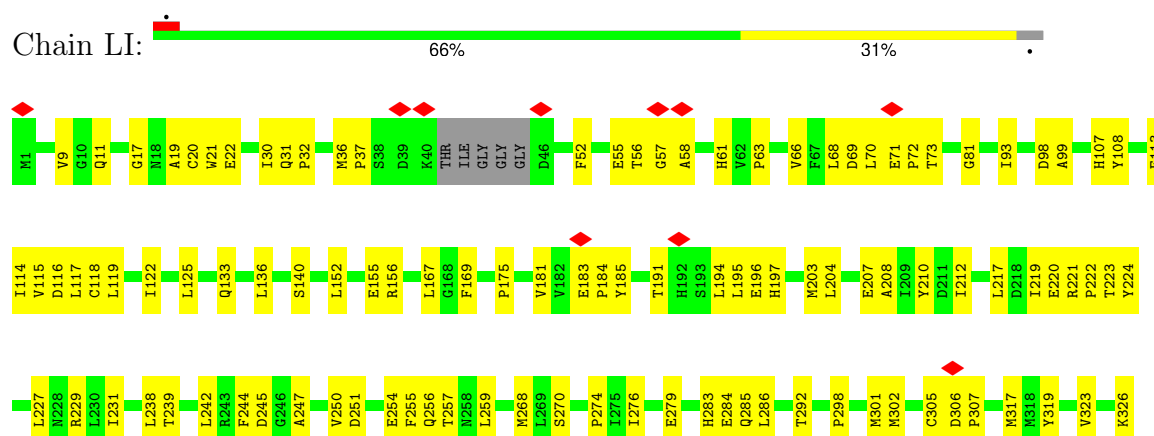
- Molecule 45: Tubulin alpha chain

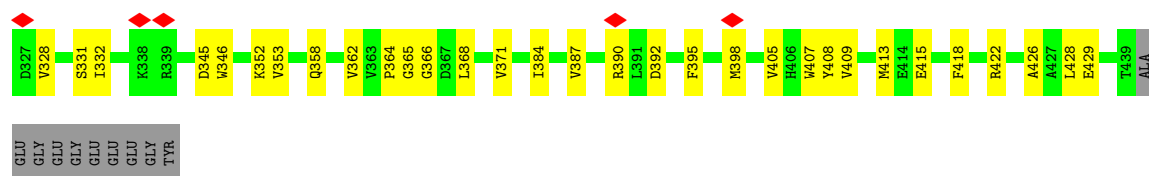
Chain LG:



- Molecule 45: Tubulin alpha chain

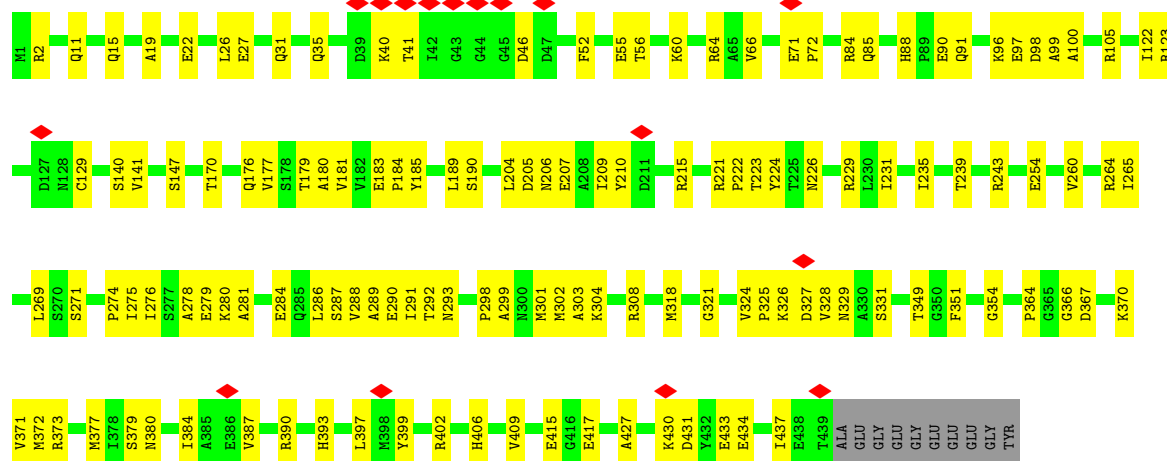
Chain LI:





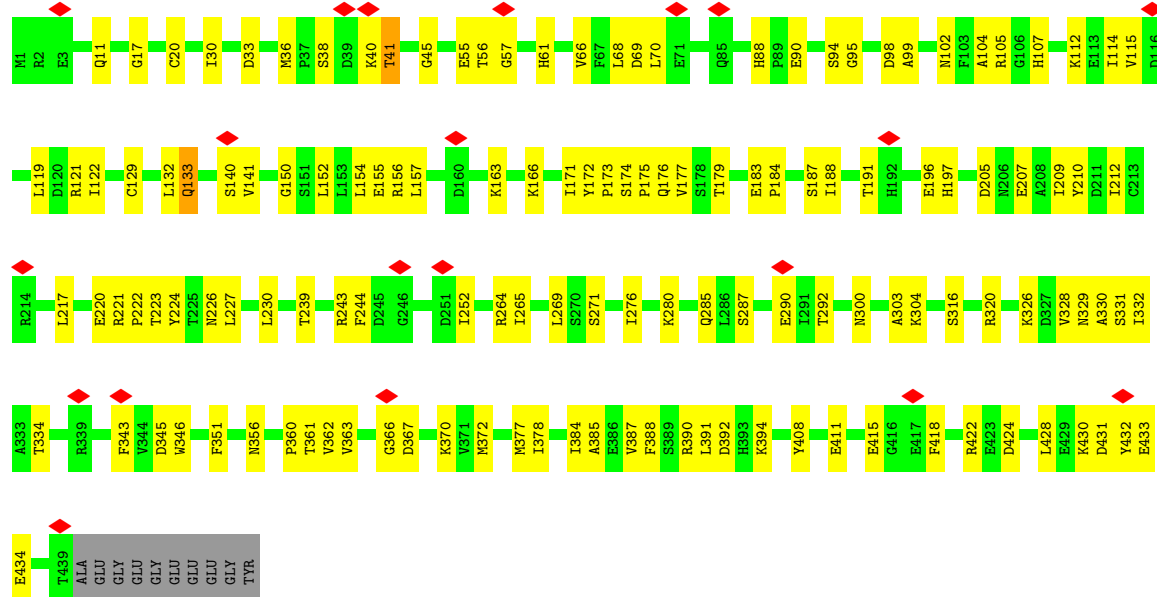
- Molecule 45: Tubulin alpha chain

Chain LK: 68% 30%



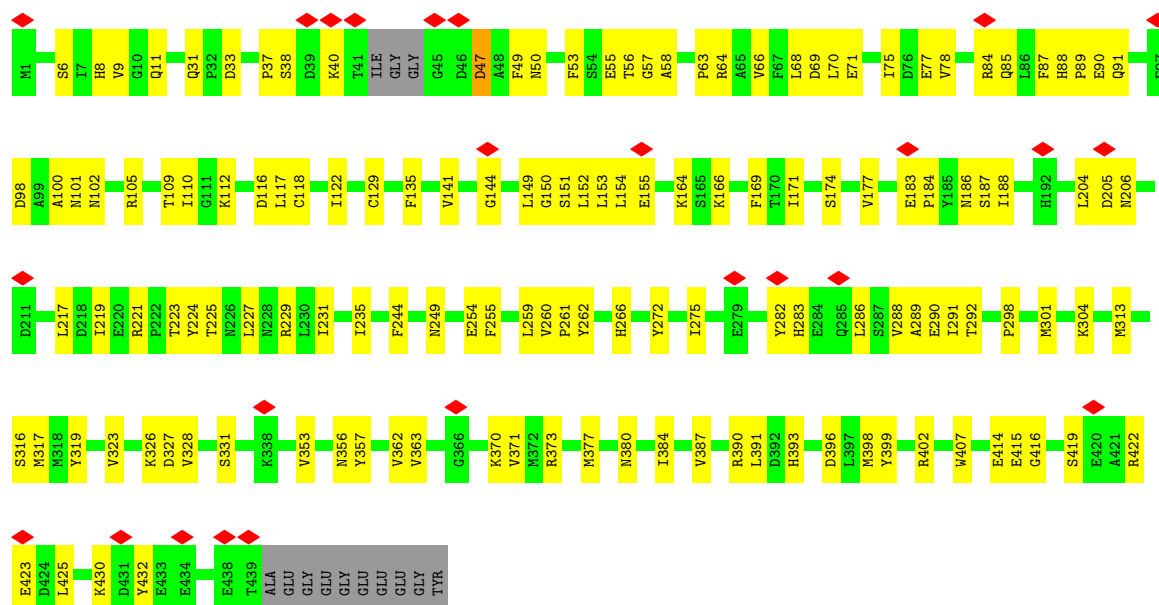
- Molecule 45: Tubulin alpha chain

Chain LM: 67% 30%



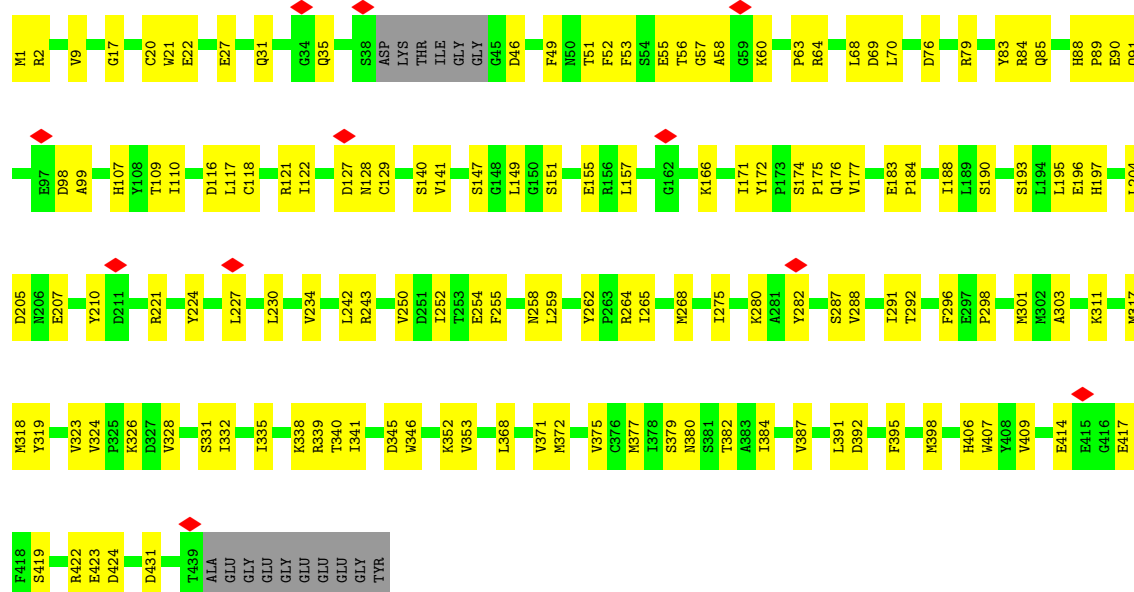
- Molecule 45: Tubulin alpha chain

Chain MA: 6% 66% 31%



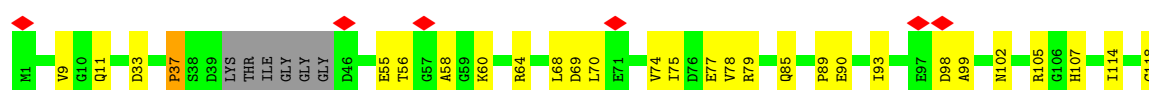
• Molecule 45: Tubulin alpha chain

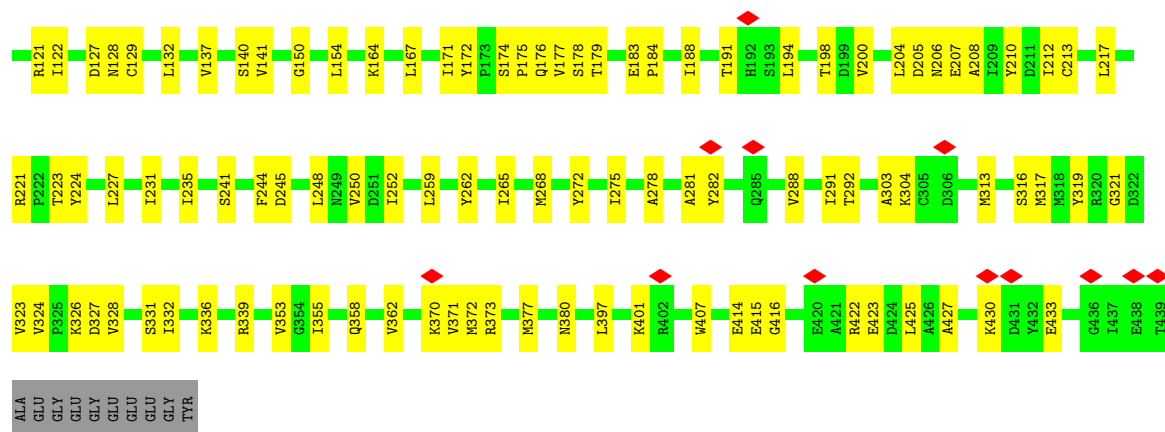
Chain MC: 64% 32%



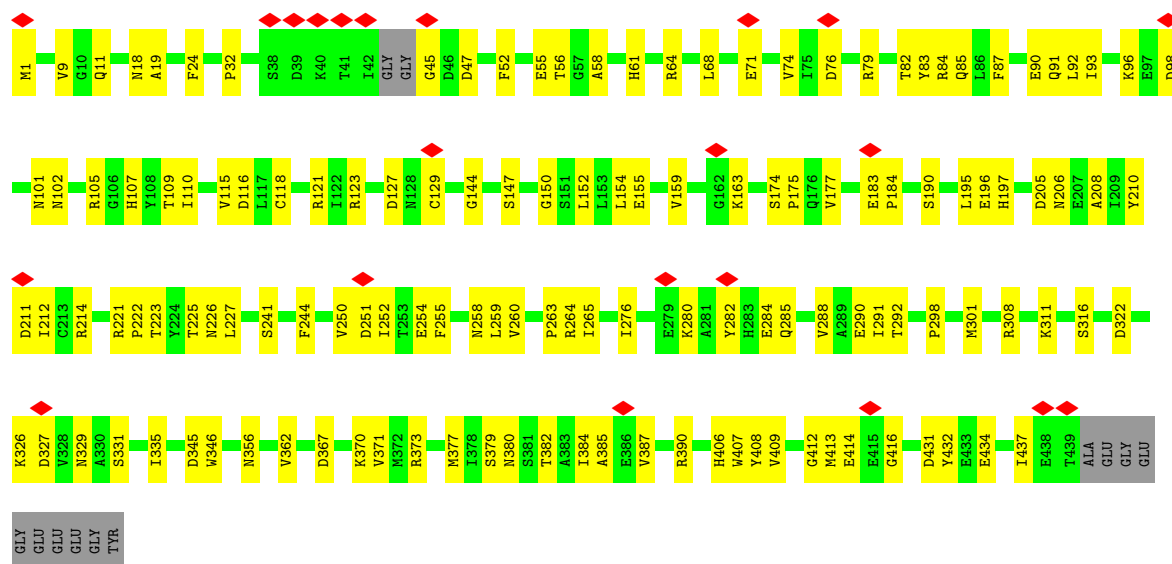
• Molecule 45: Tubulin alpha chain

Chain ME: 68% 28%

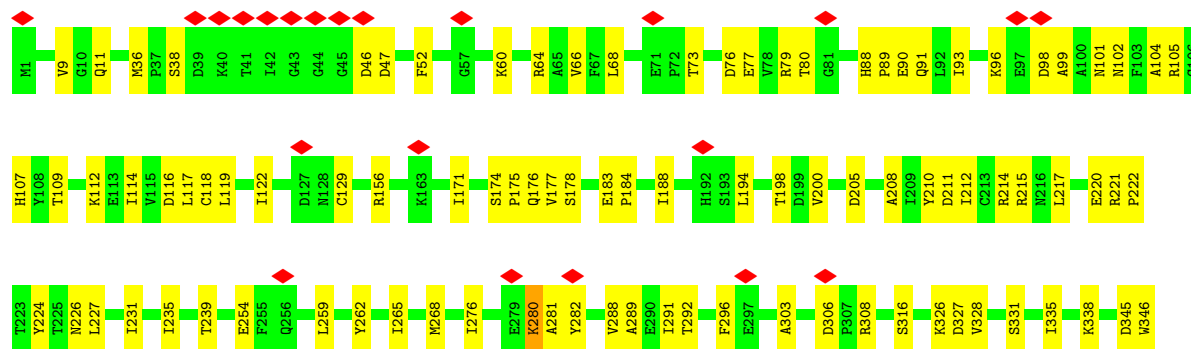




• Molecule 45: Tubulin alpha chain



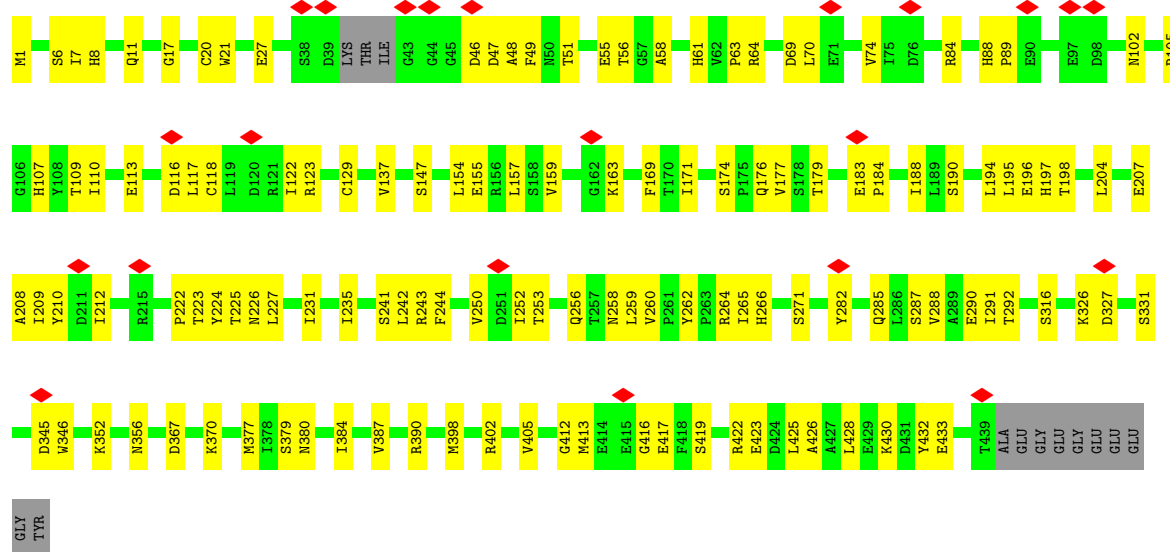
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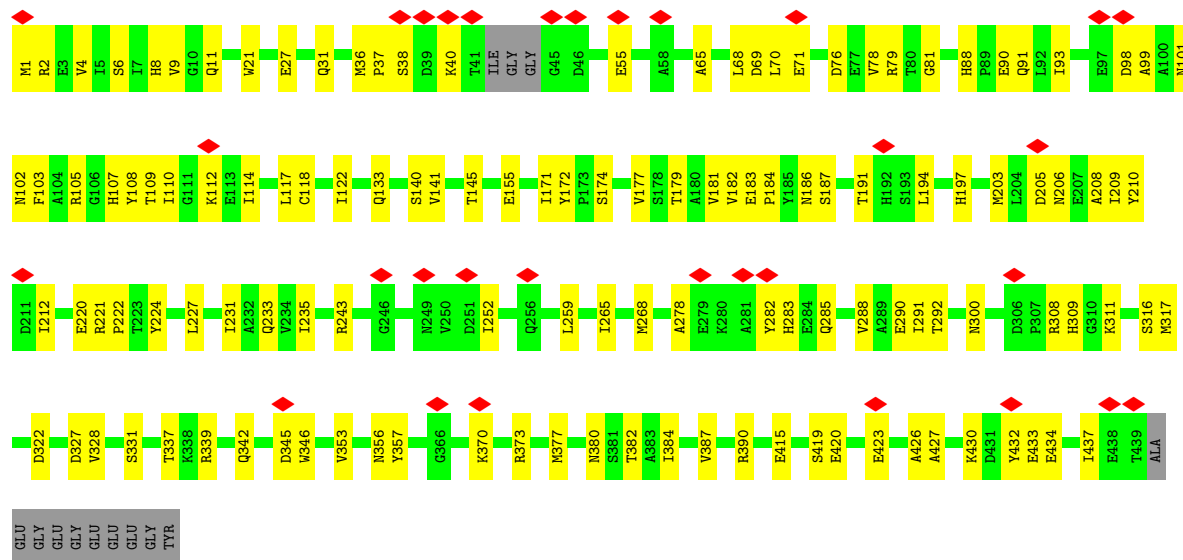
- Molecule 45: Tubulin alpha chain

Chain MK:



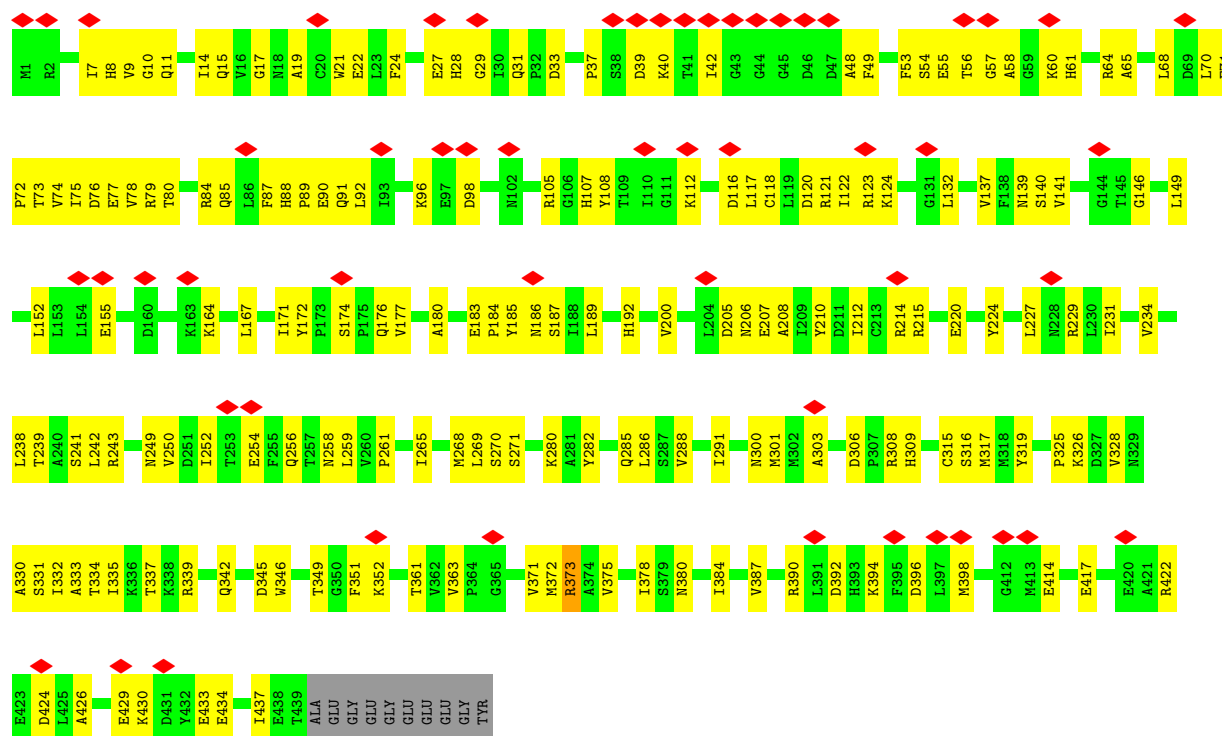
- Molecule 45: Tubulin alpha chain

Chain MM:

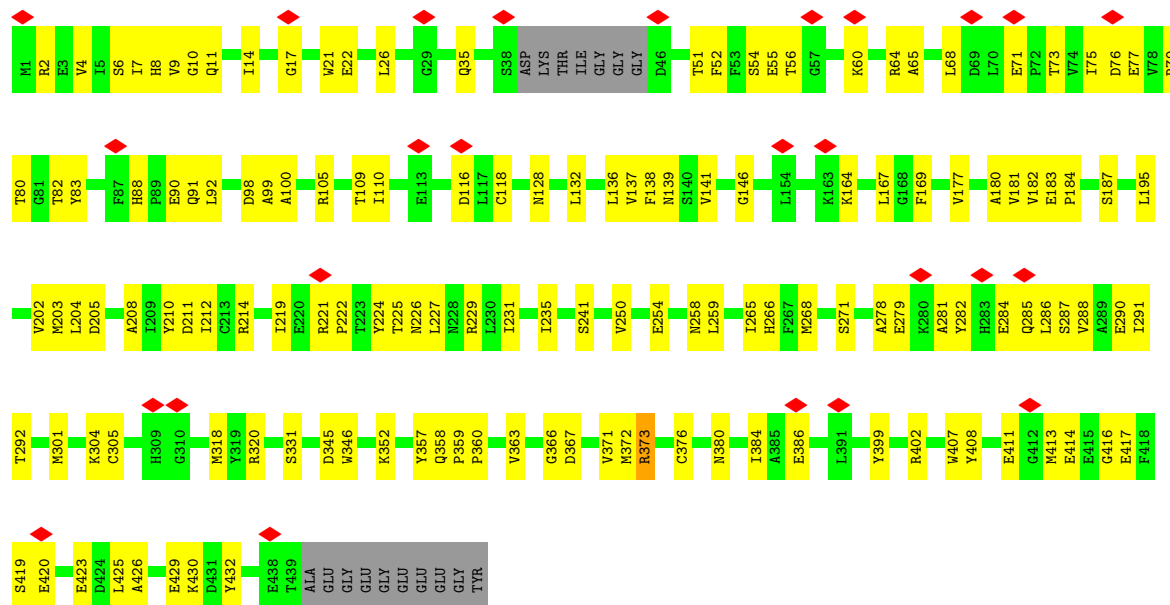


- Molecule 45: Tubulin alpha chain

Chain NA:

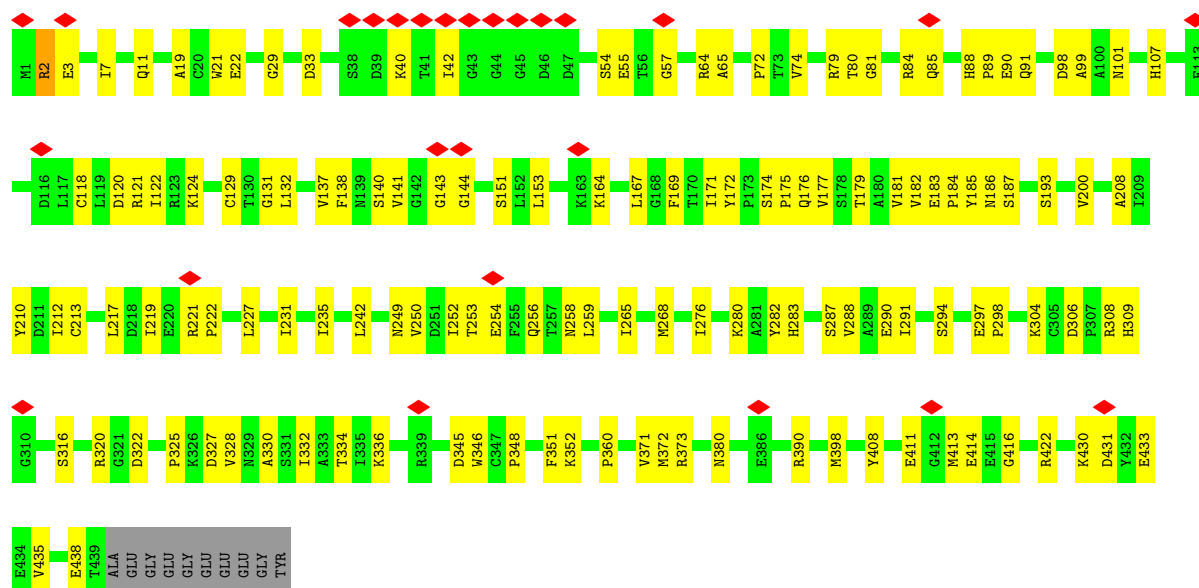


• Molecule 45: Tubulin alpha chain

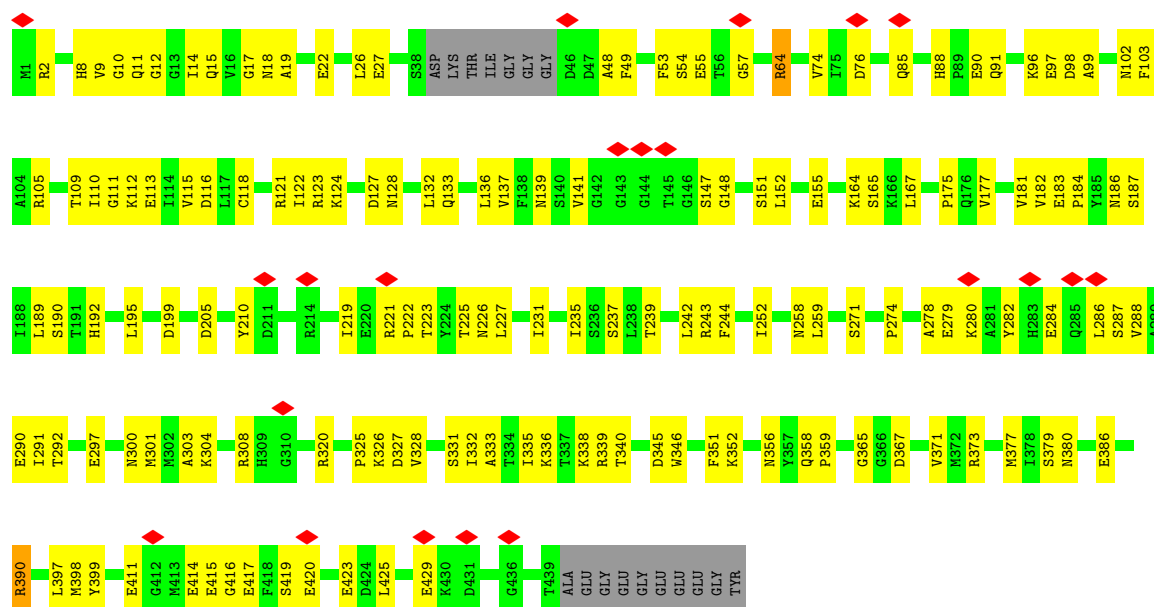


• Molecule 45: Tubulin alpha chain

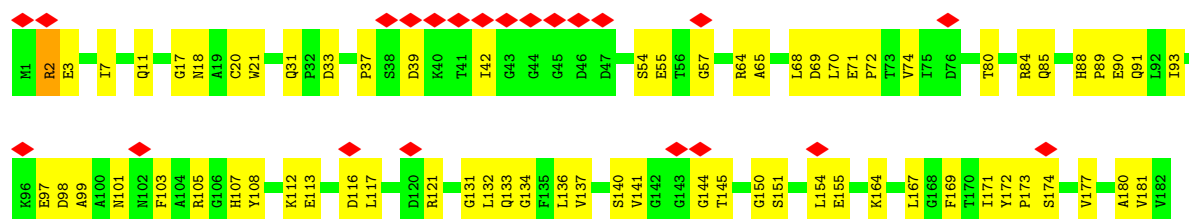


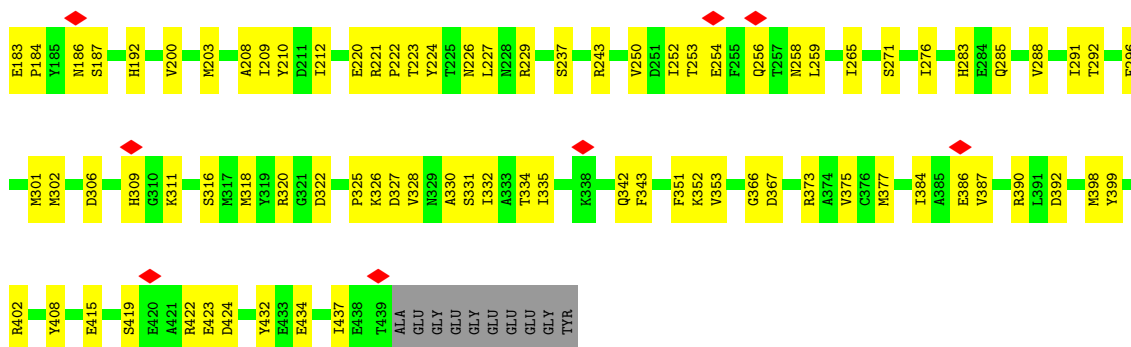


- Molecule 45: Tubulin alpha chain

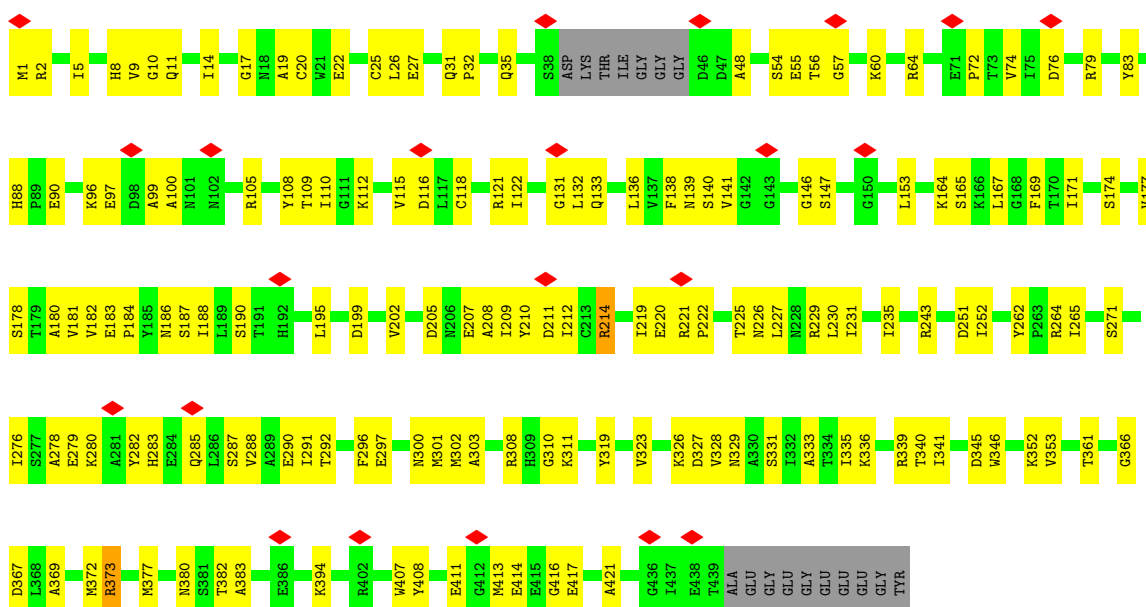


- Molecule 45: Tubulin alpha chain

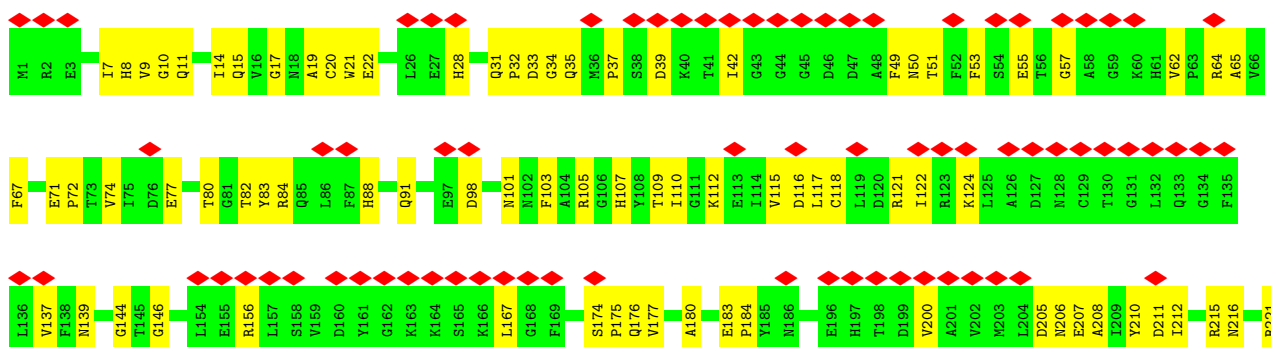


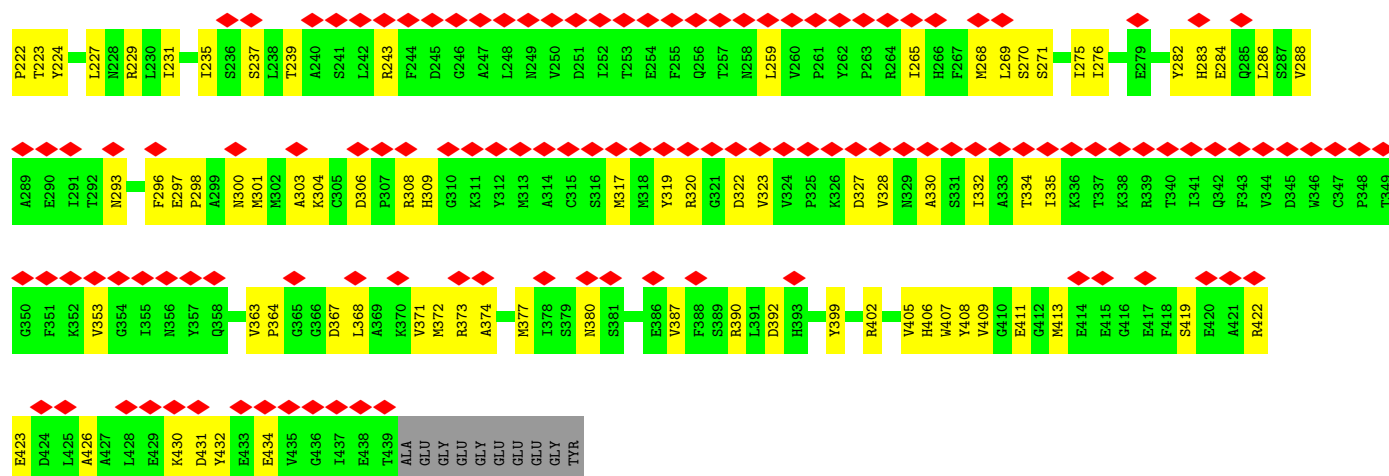


• Molecule 45: Tubulin alpha chain

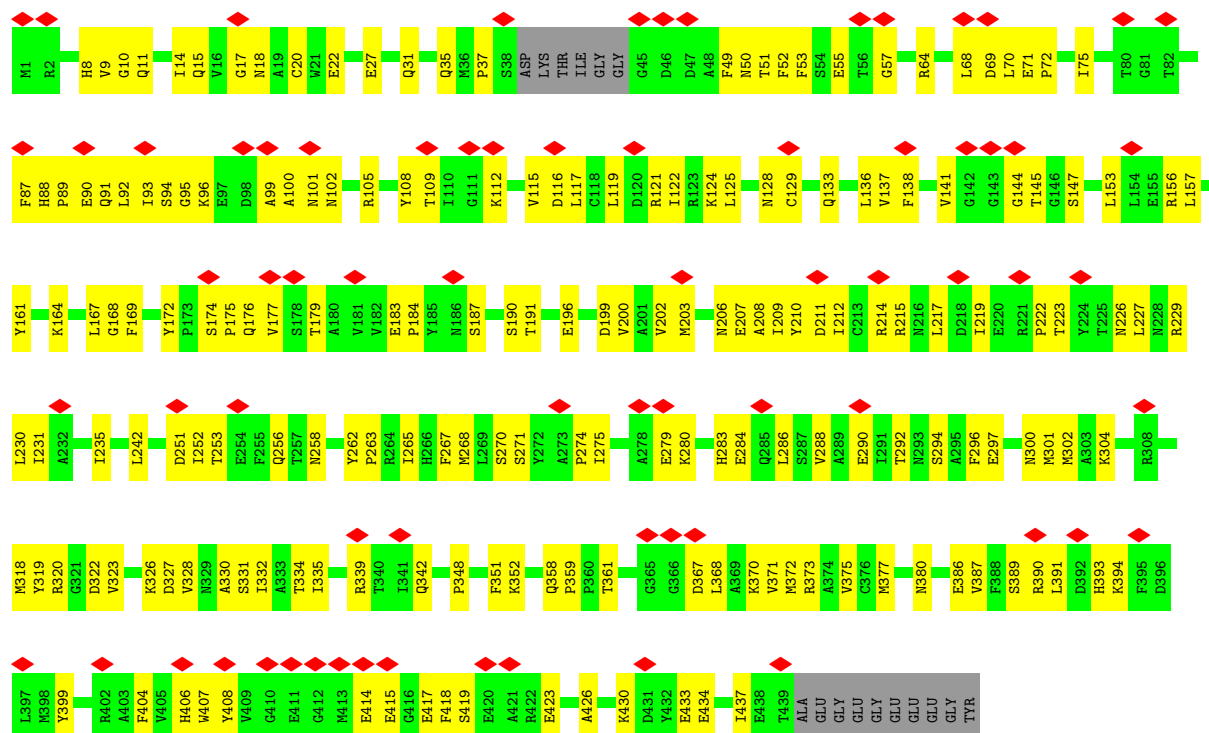


• Molecule 45: Tubulin alpha chain

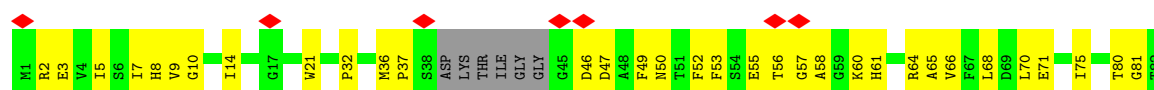


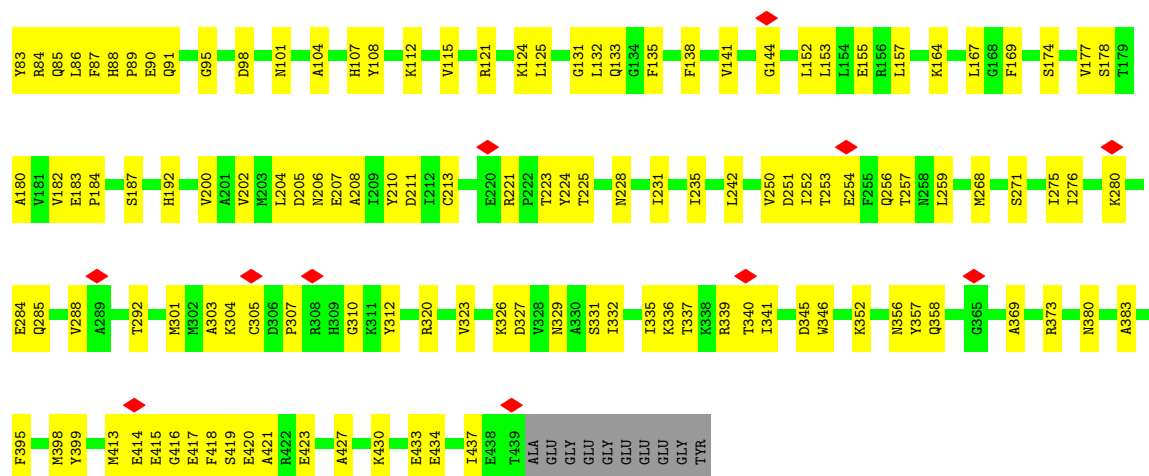


• Molecule 45: Tubulin alpha chain

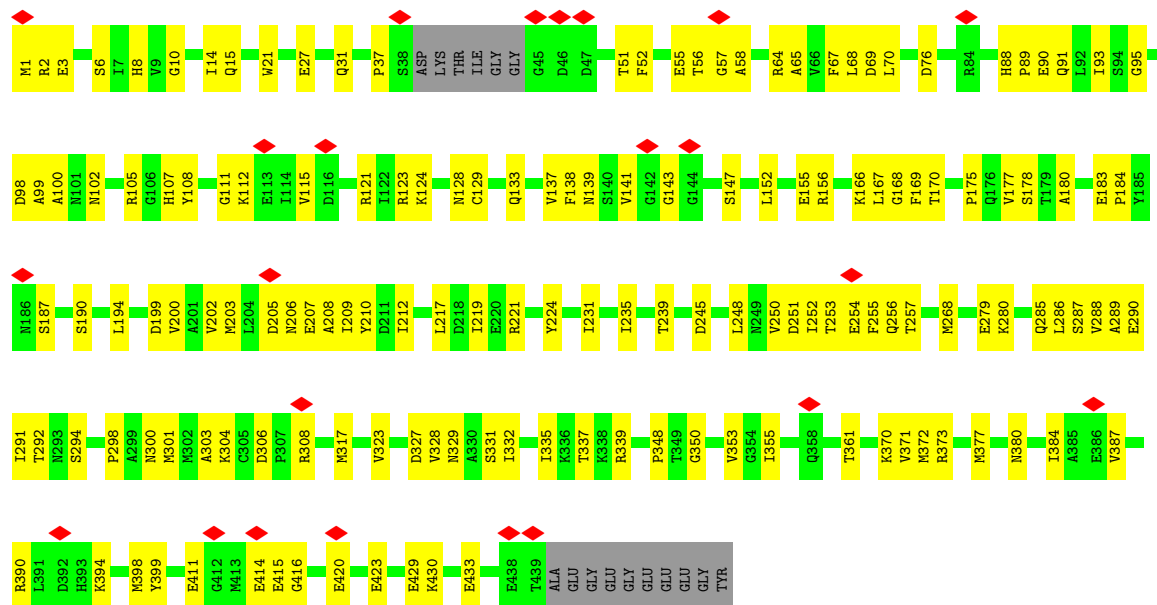


• Molecule 45: Tubulin alpha chain

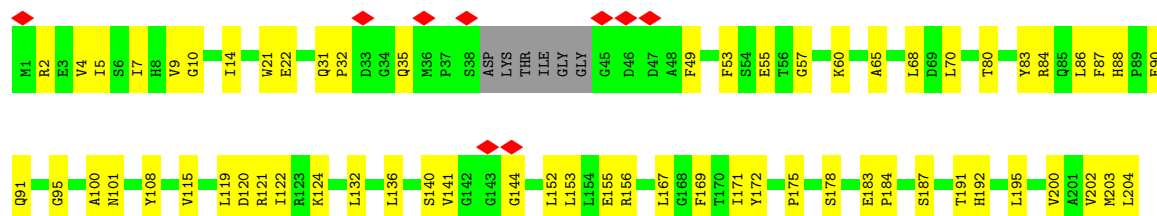


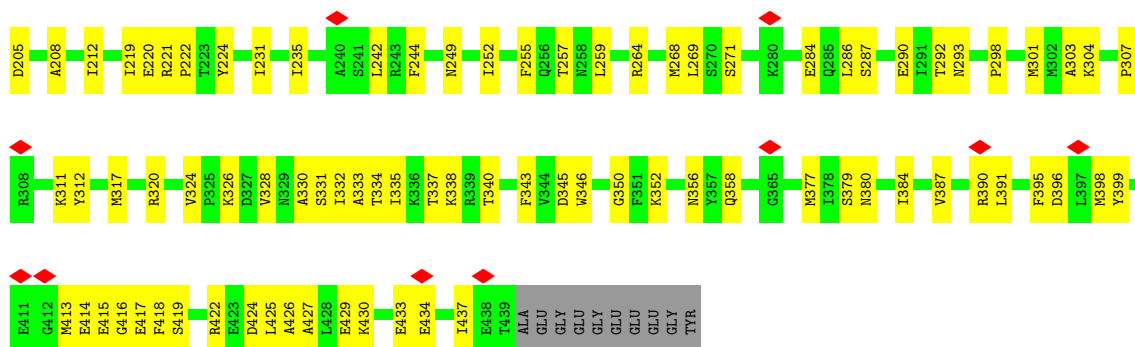


• Molecule 45: Tubulin alpha chain

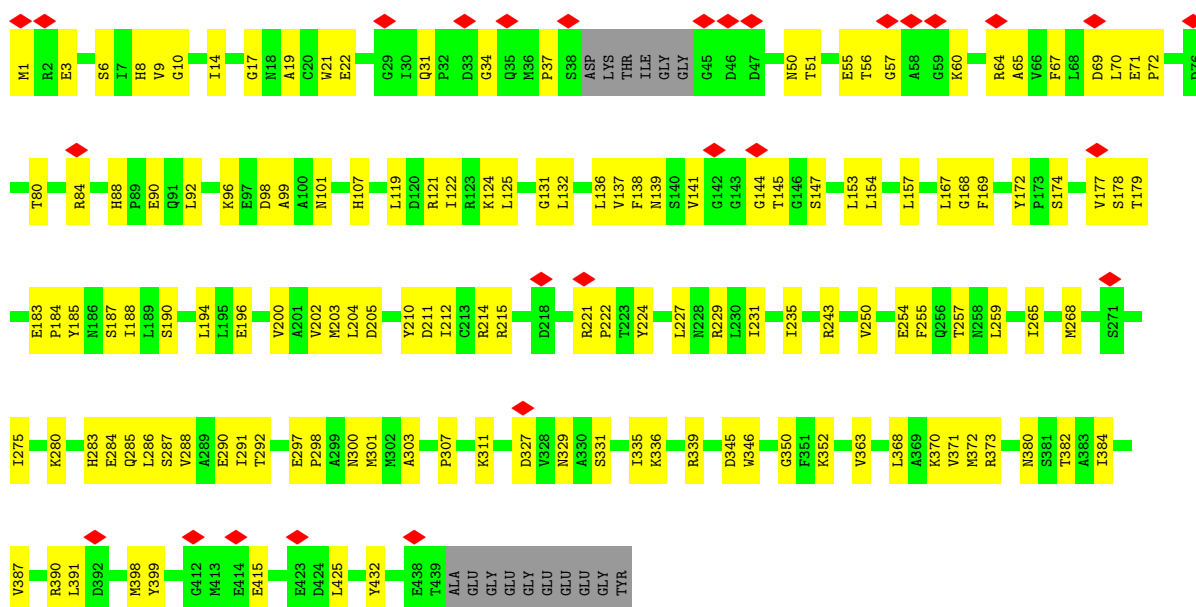


• Molecule 45: Tubulin alpha chain

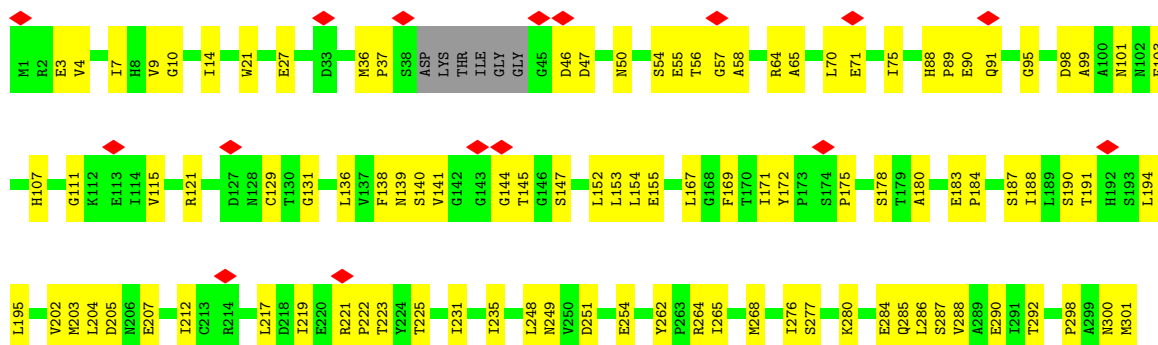


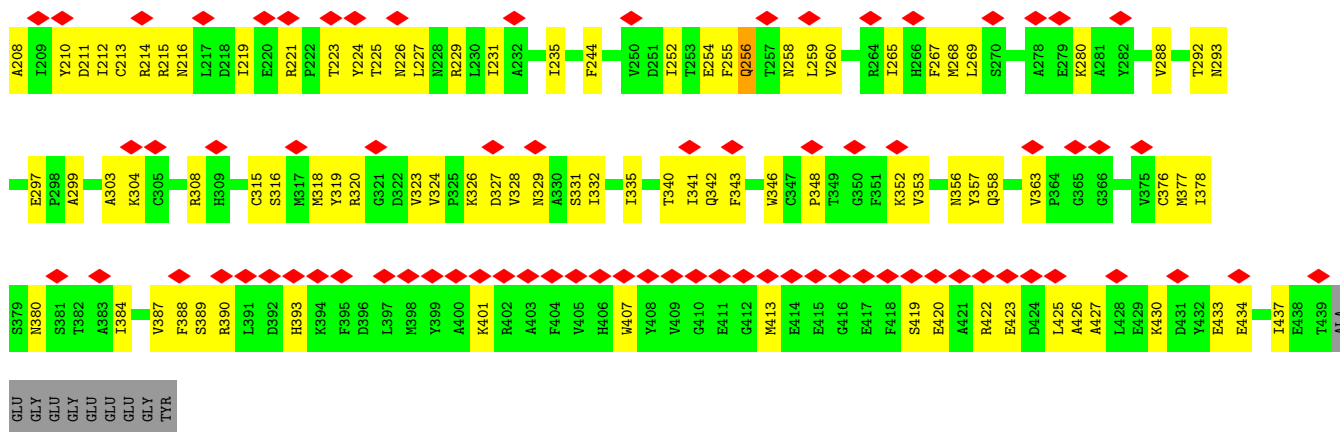


• Molecule 45: Tubulin alpha chain

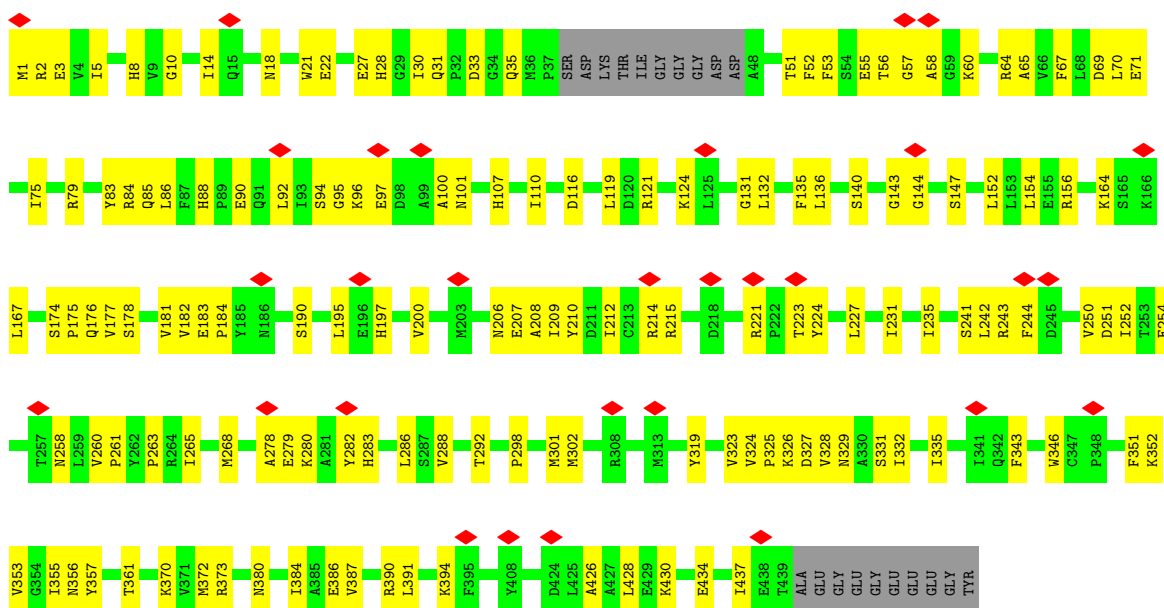


• Molecule 45: Tubulin alpha chain

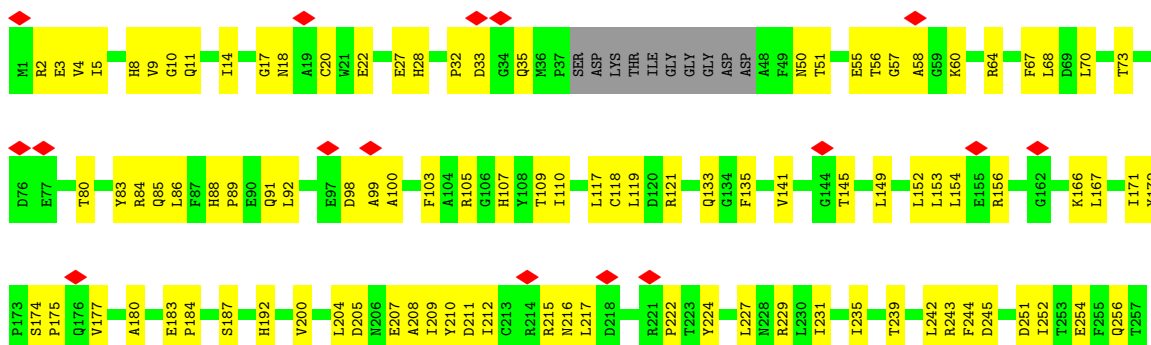


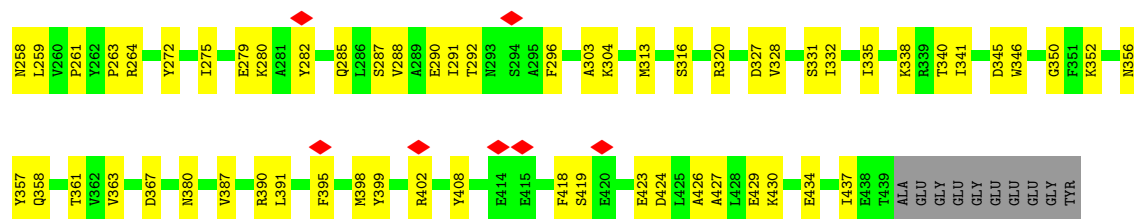


• Molecule 45: Tubulin alpha chain

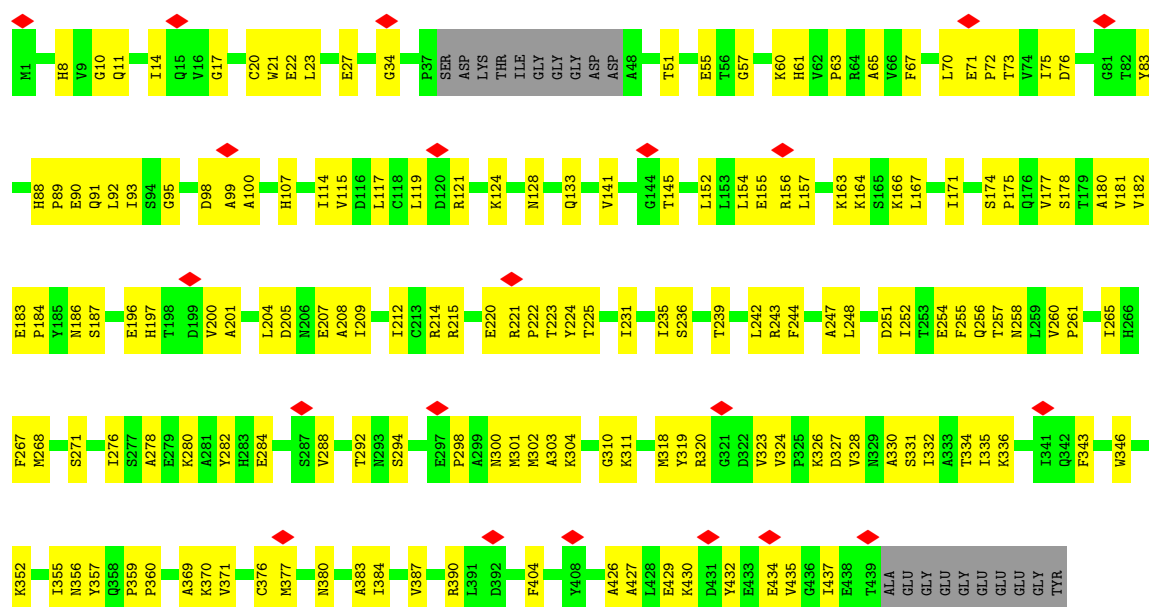


• Molecule 45: Tubulin alpha chain

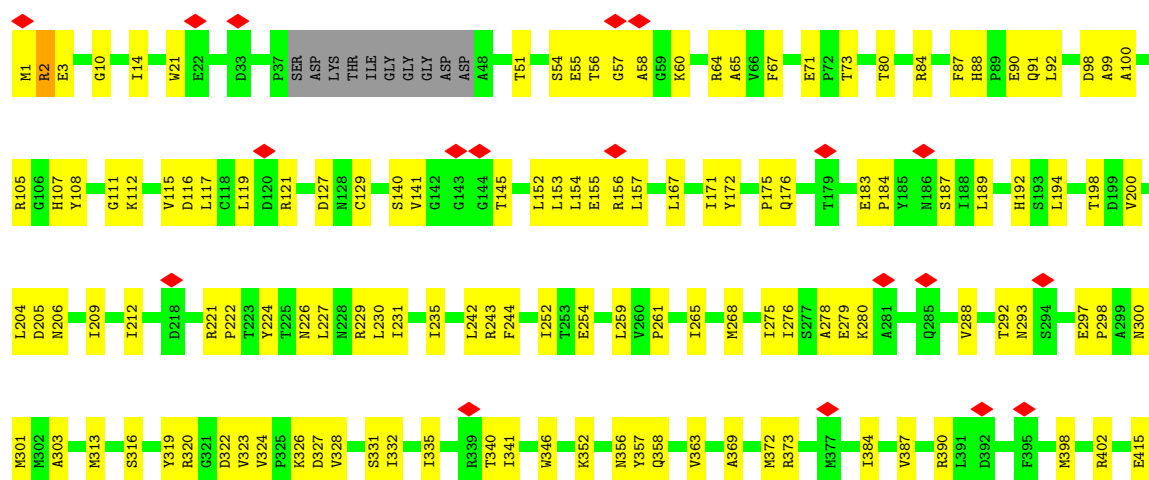




• Molecule 45: Tubulin alpha chain

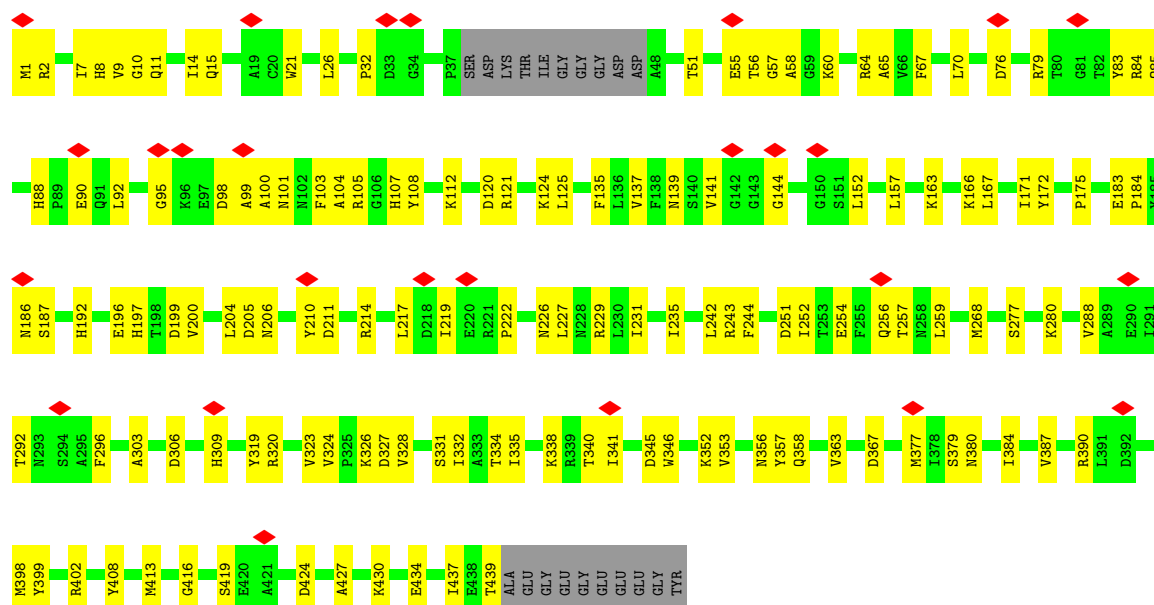


• Molecule 45: Tubulin alpha chain

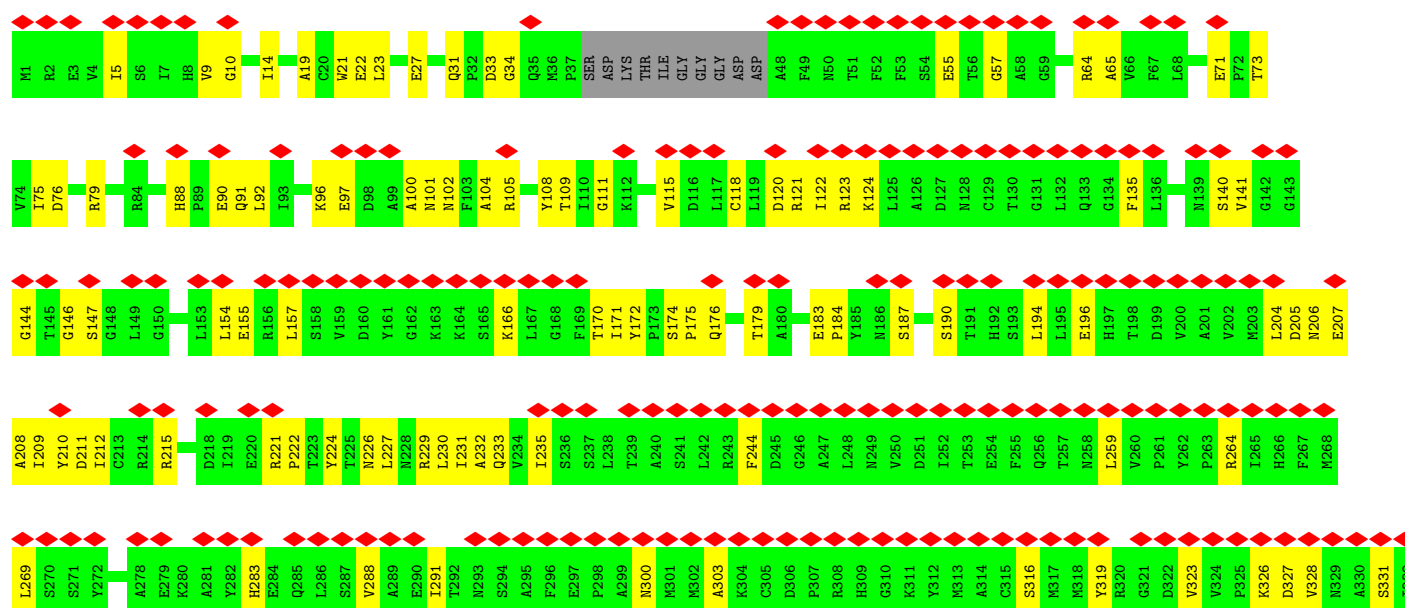
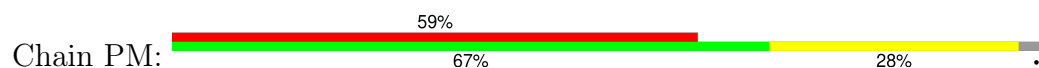


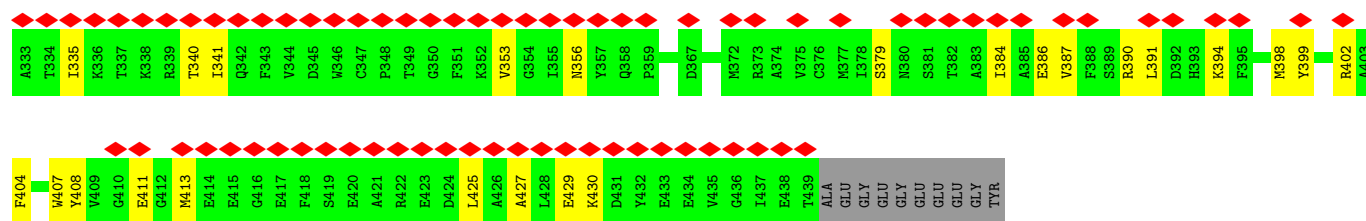


• Molecule 45: Tubulin alpha chain

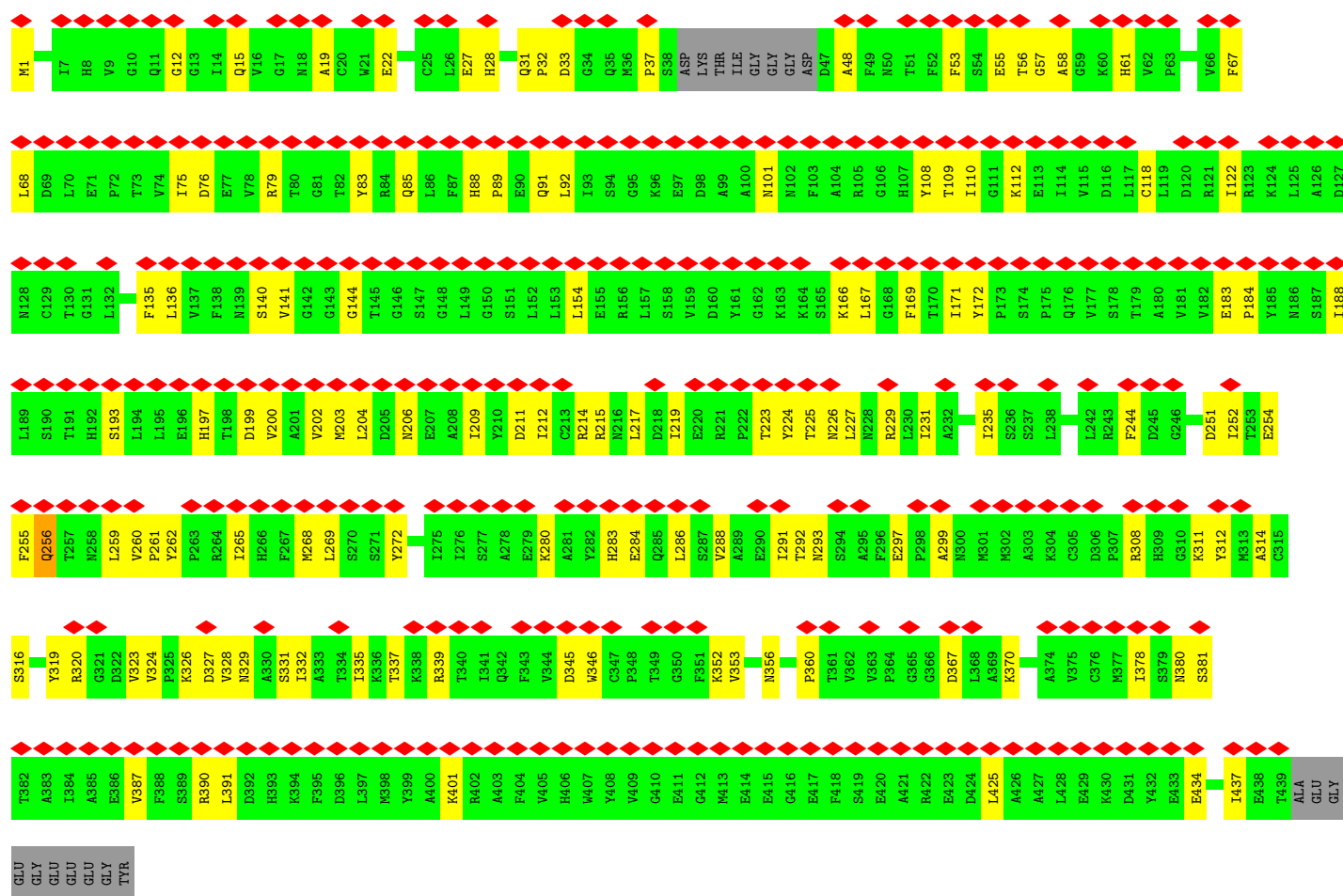
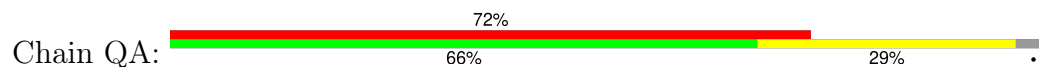


• Molecule 45: Tubulin alpha chain

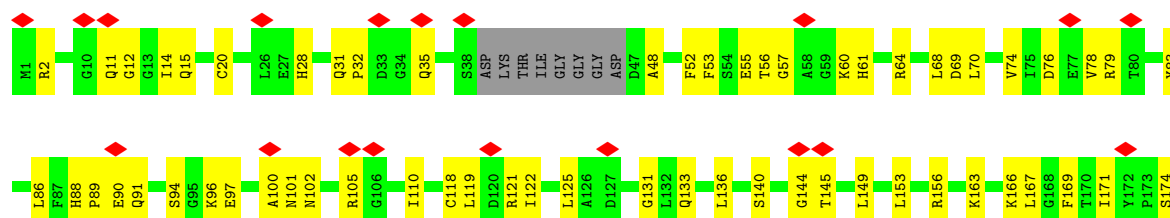


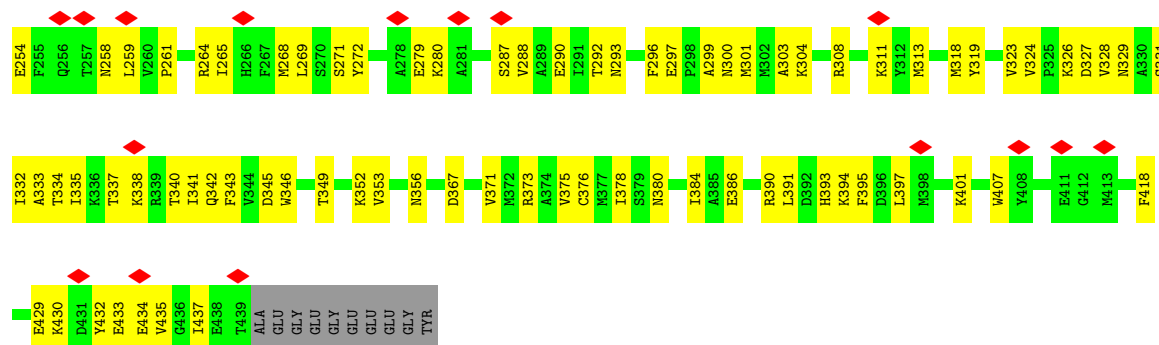


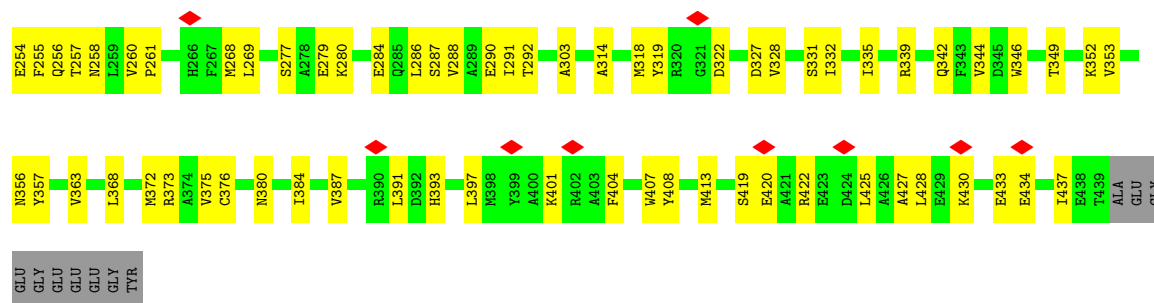
• Molecule 45: Tubulin alpha chain



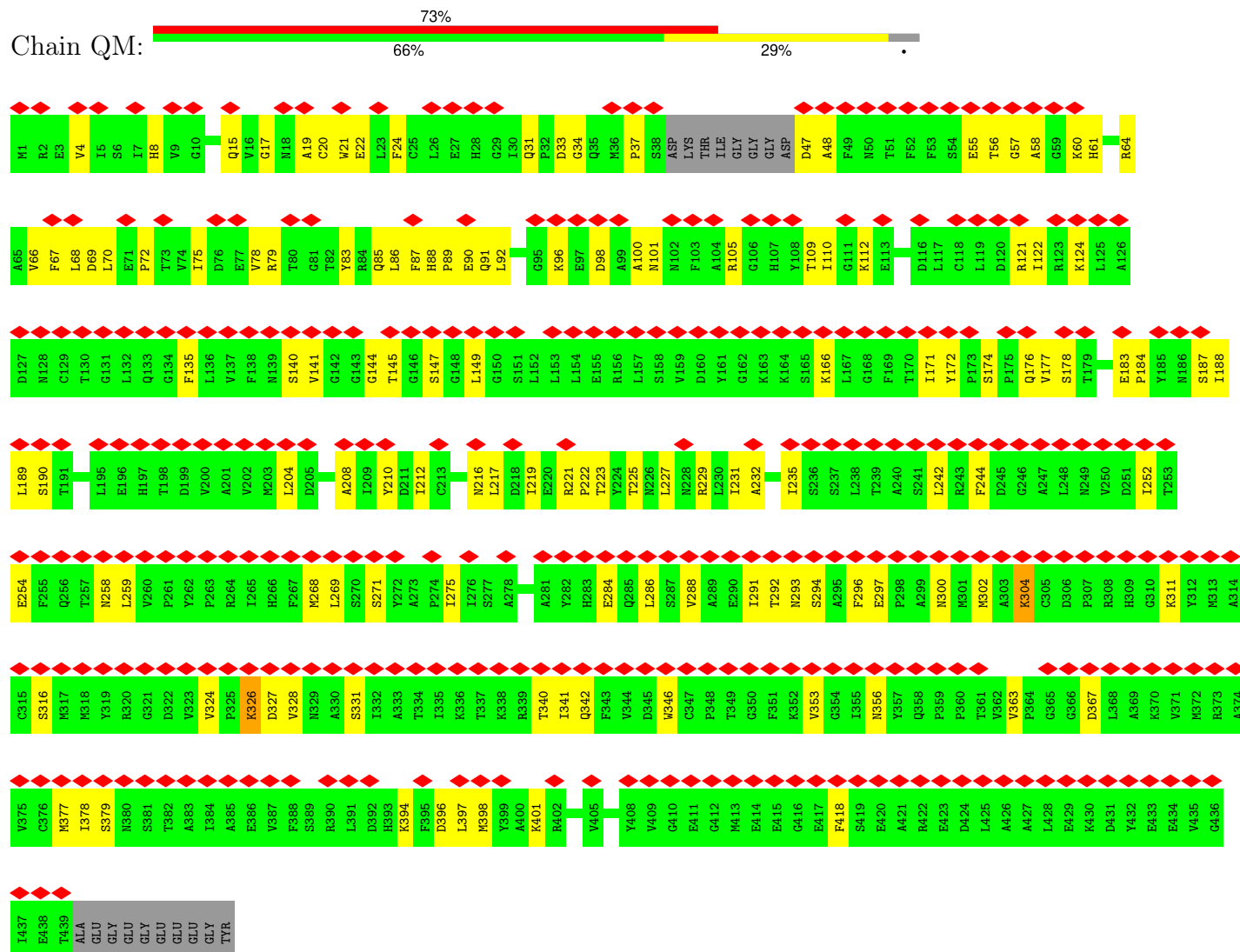
• Molecule 45: Tubulin alpha chain



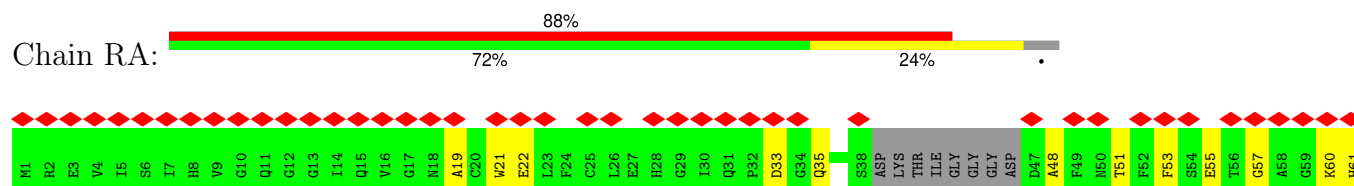


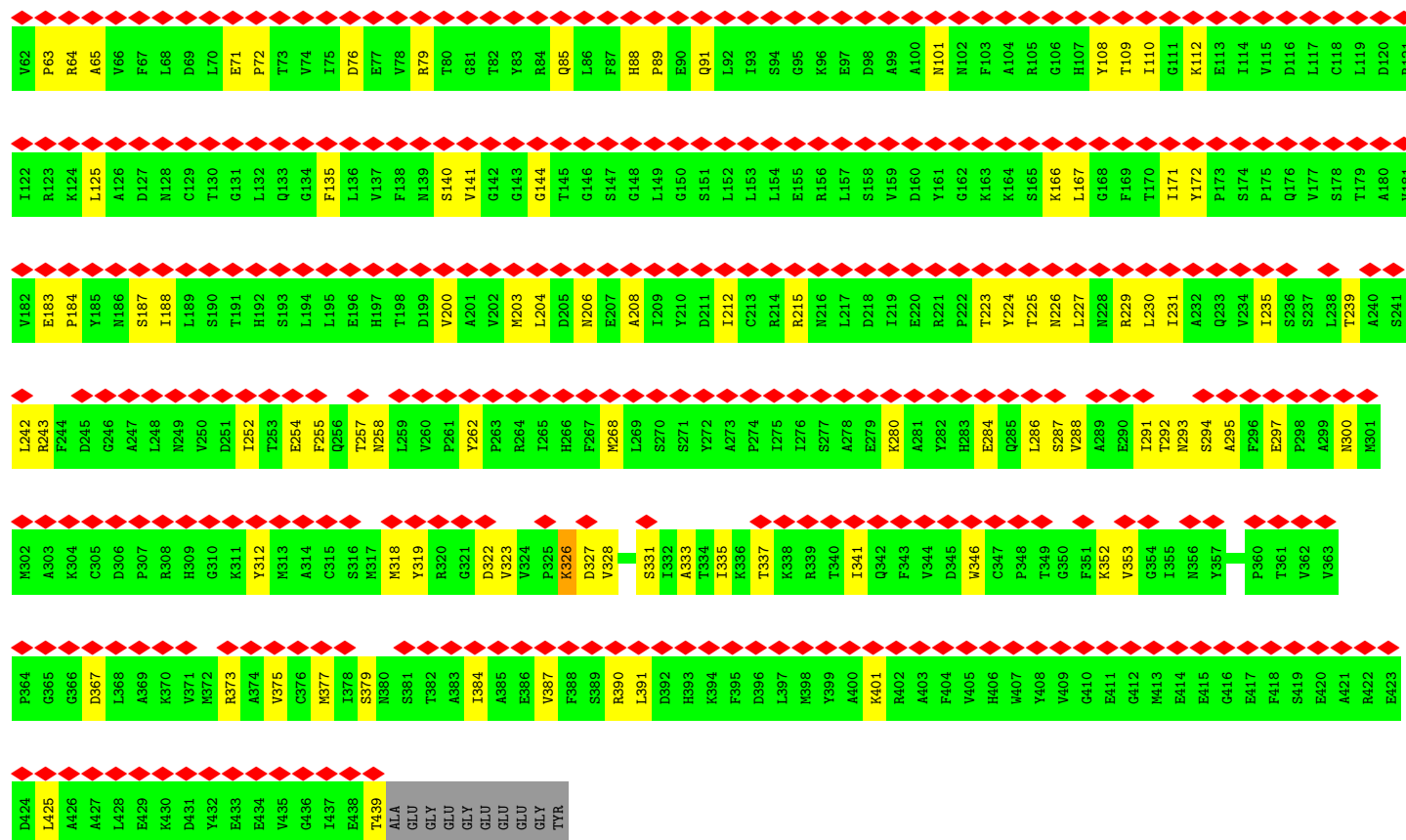


• Molecule 45: Tubulin alpha chain

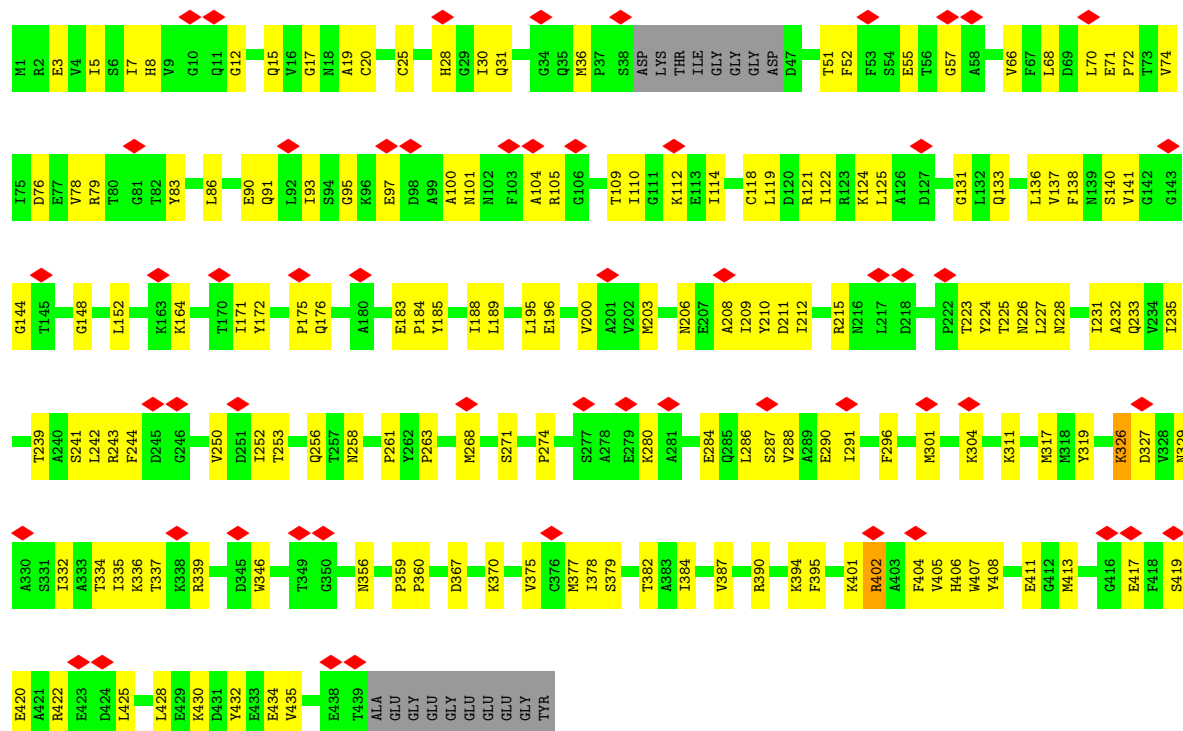


• Molecule 45: Tubulin alpha chain

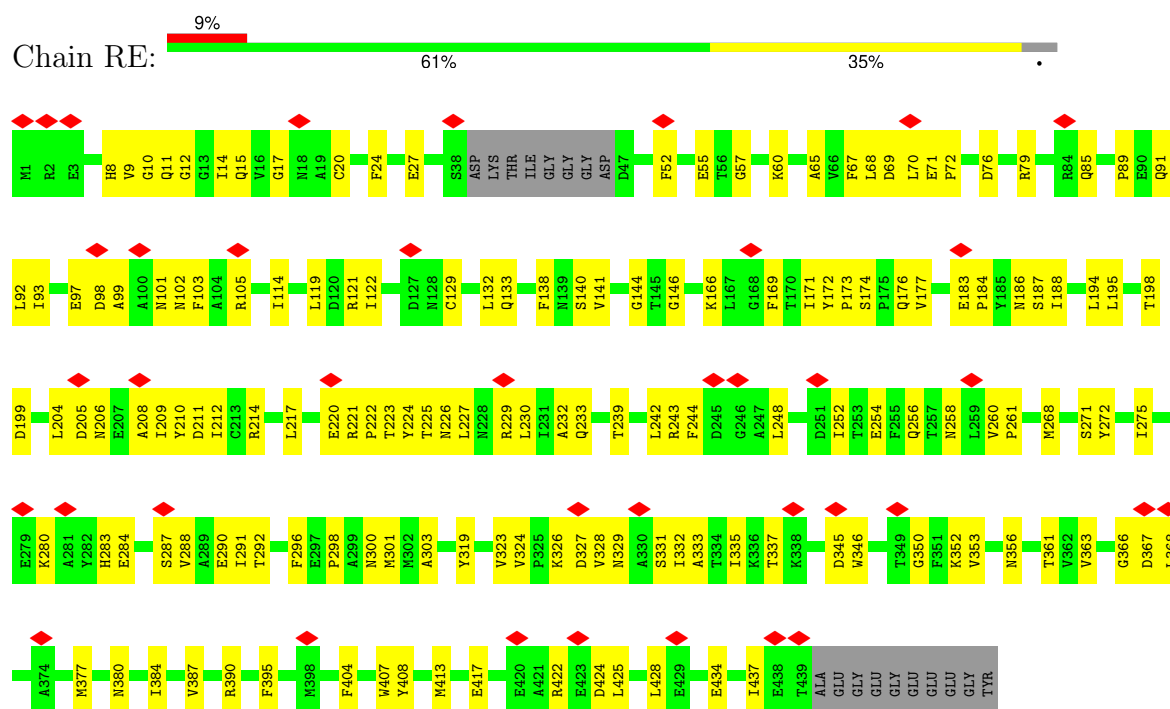




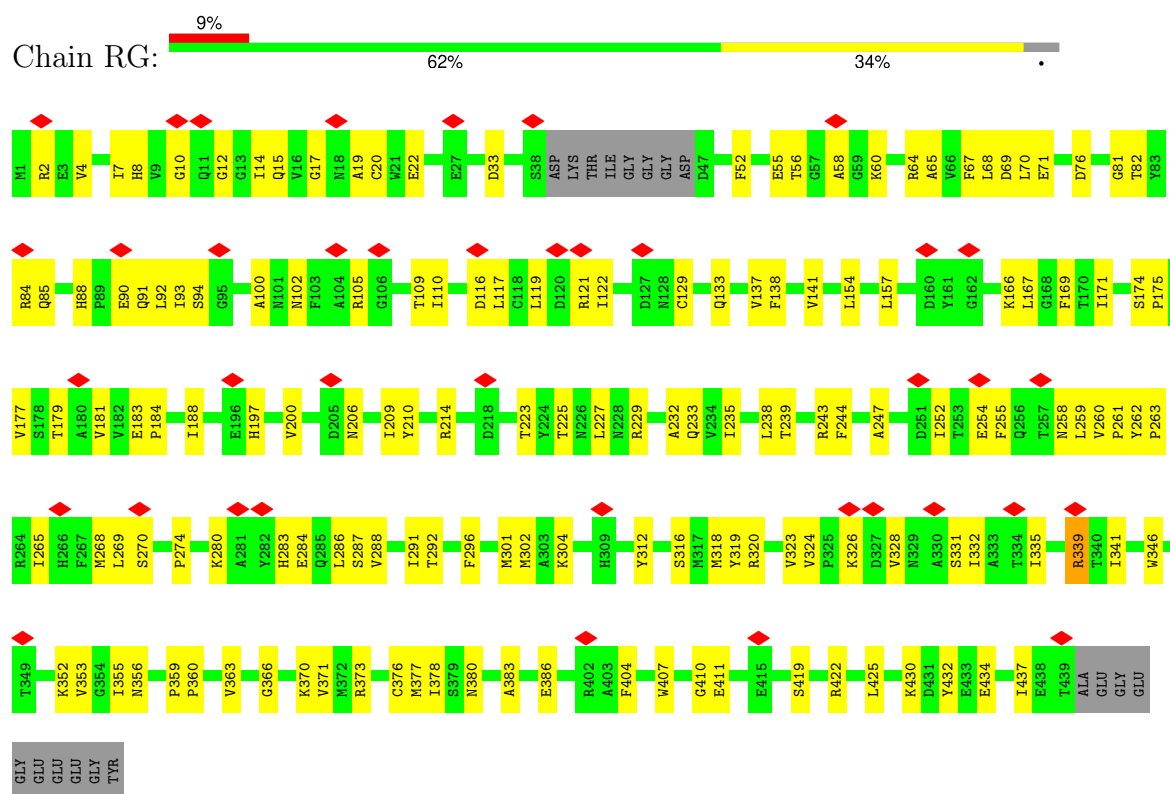
• Molecule 45: Tubulin alpha chain



- Molecule 45: Tubulin alpha chain

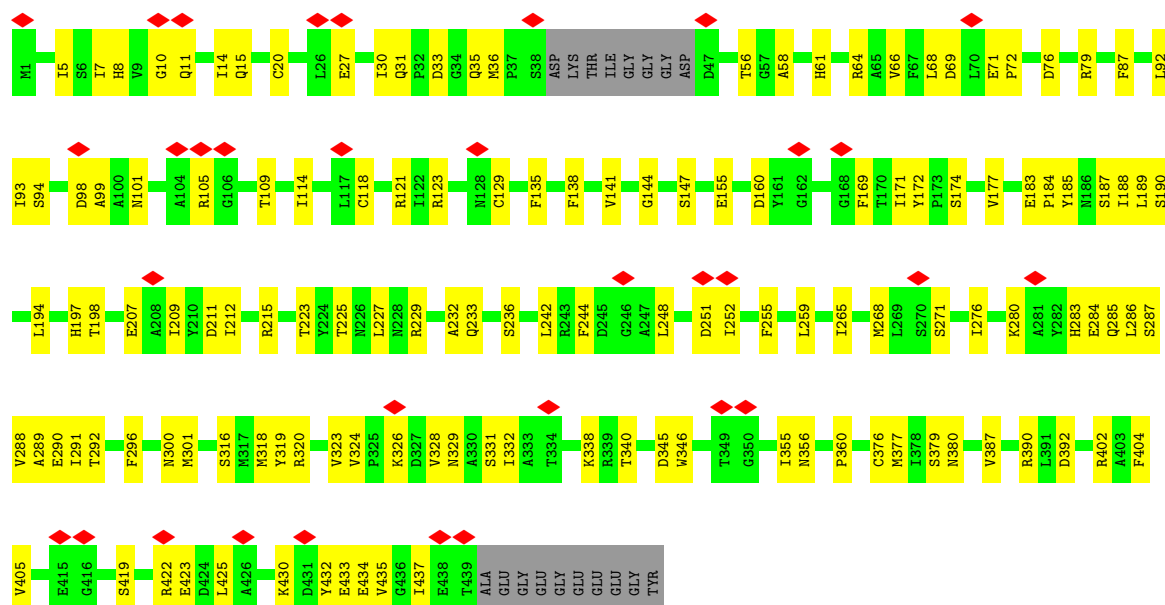


- Molecule 45: Tubulin alpha chain

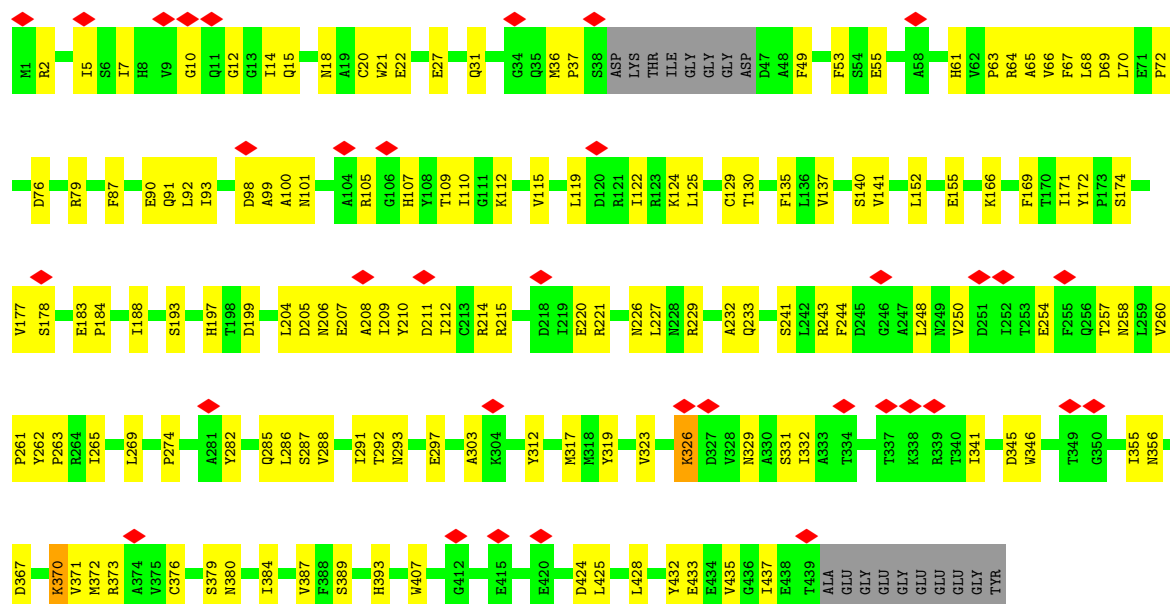


- Molecule 45: Tubulin alpha chain

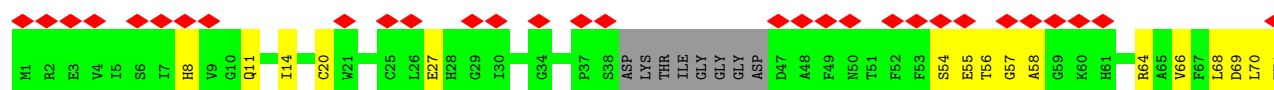


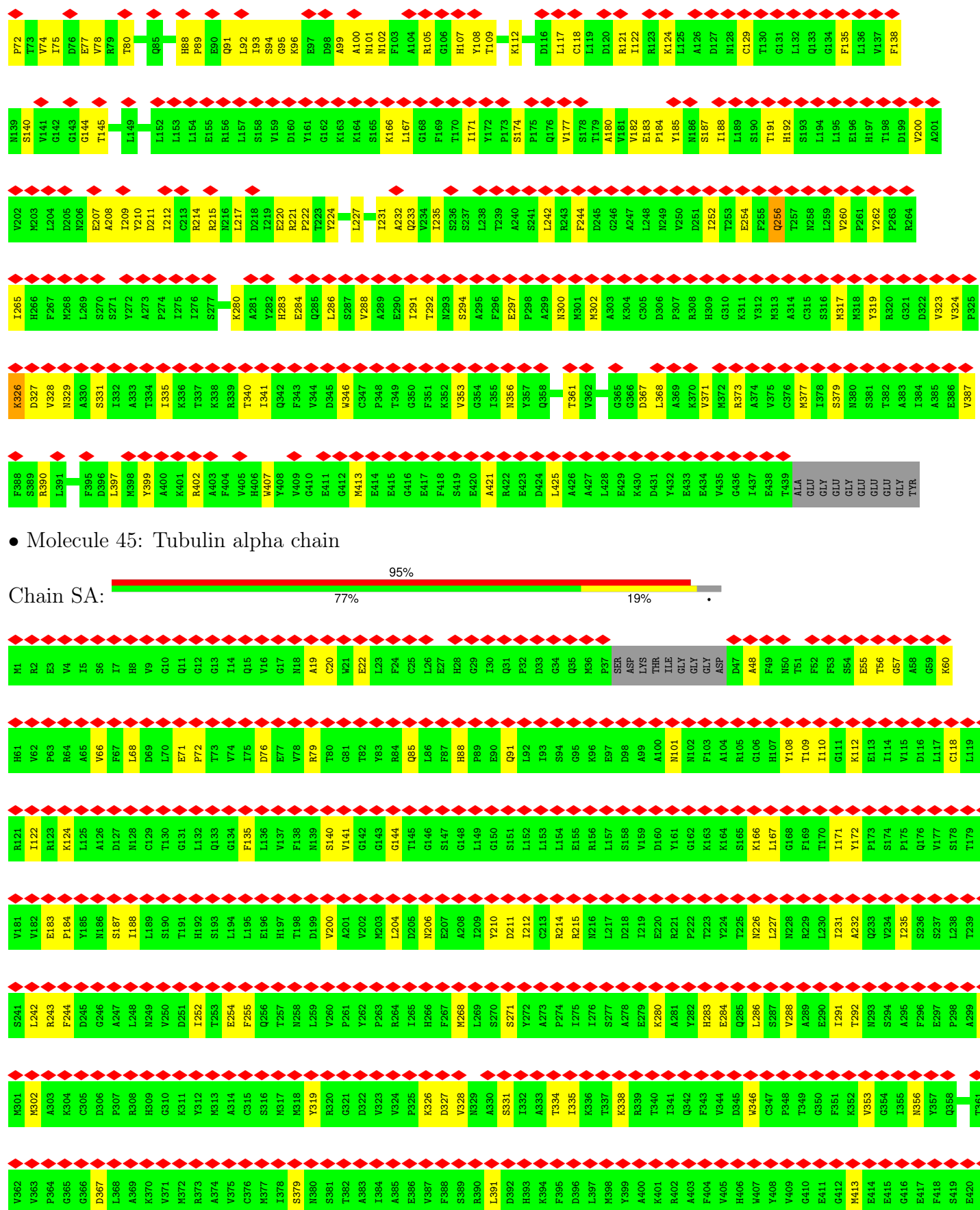


• Molecule 45: Tubulin alpha chain



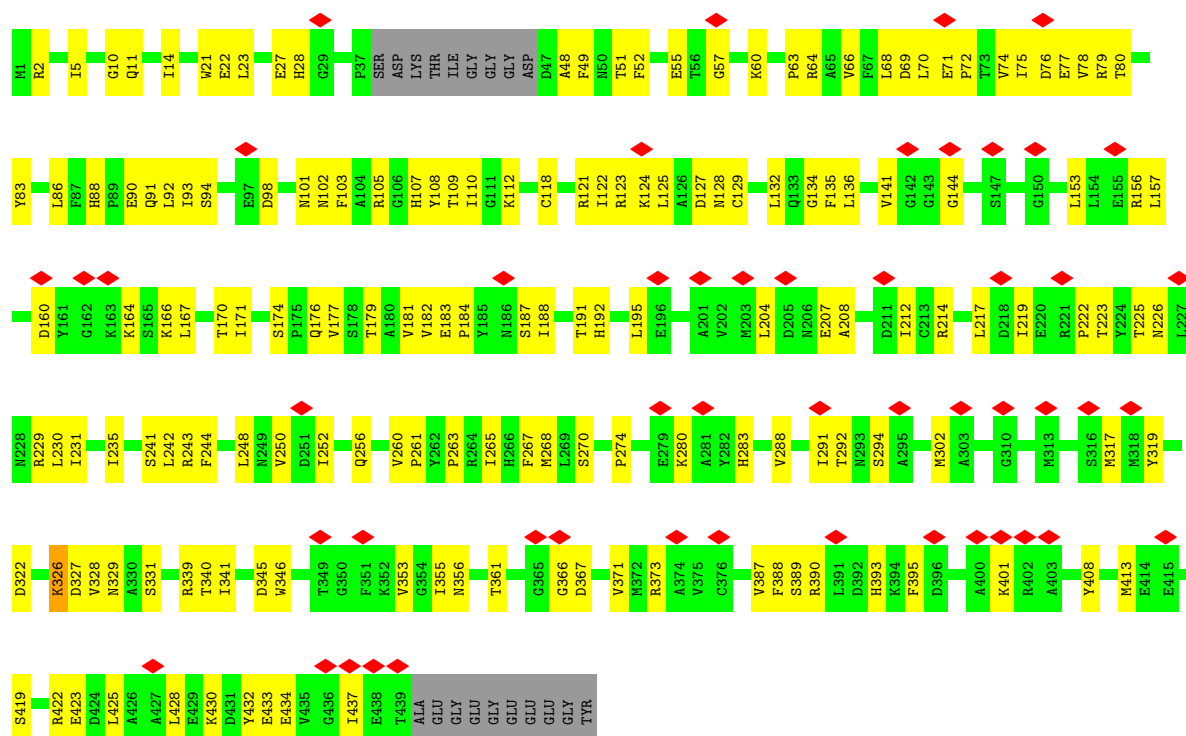
• Molecule 45: Tubulin alpha chain



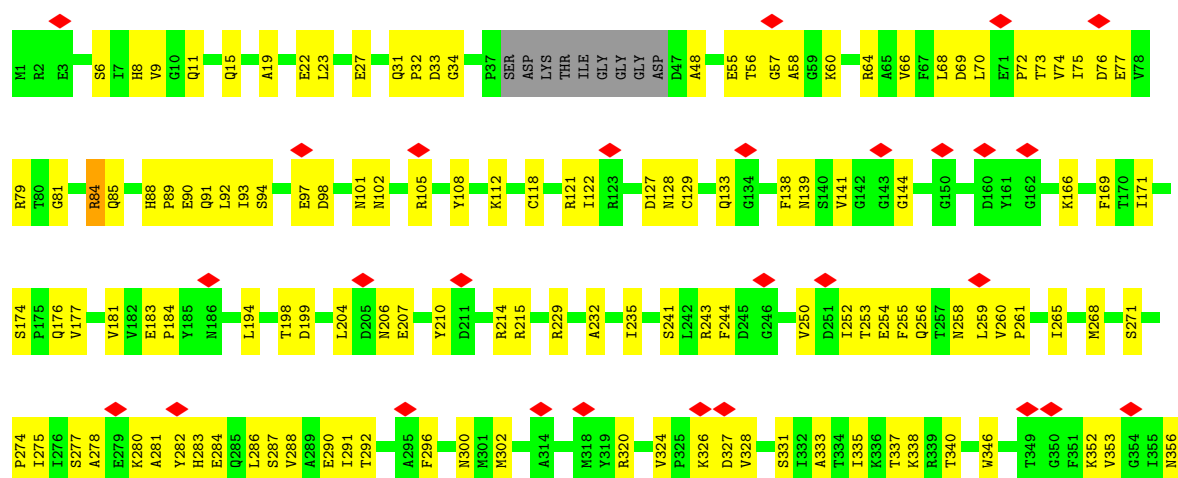


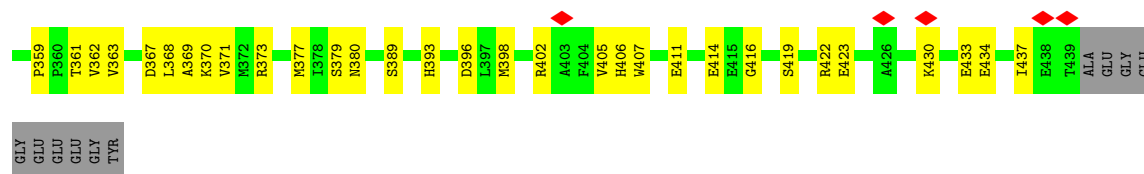


• Molecule 45: Tubulin alpha chain

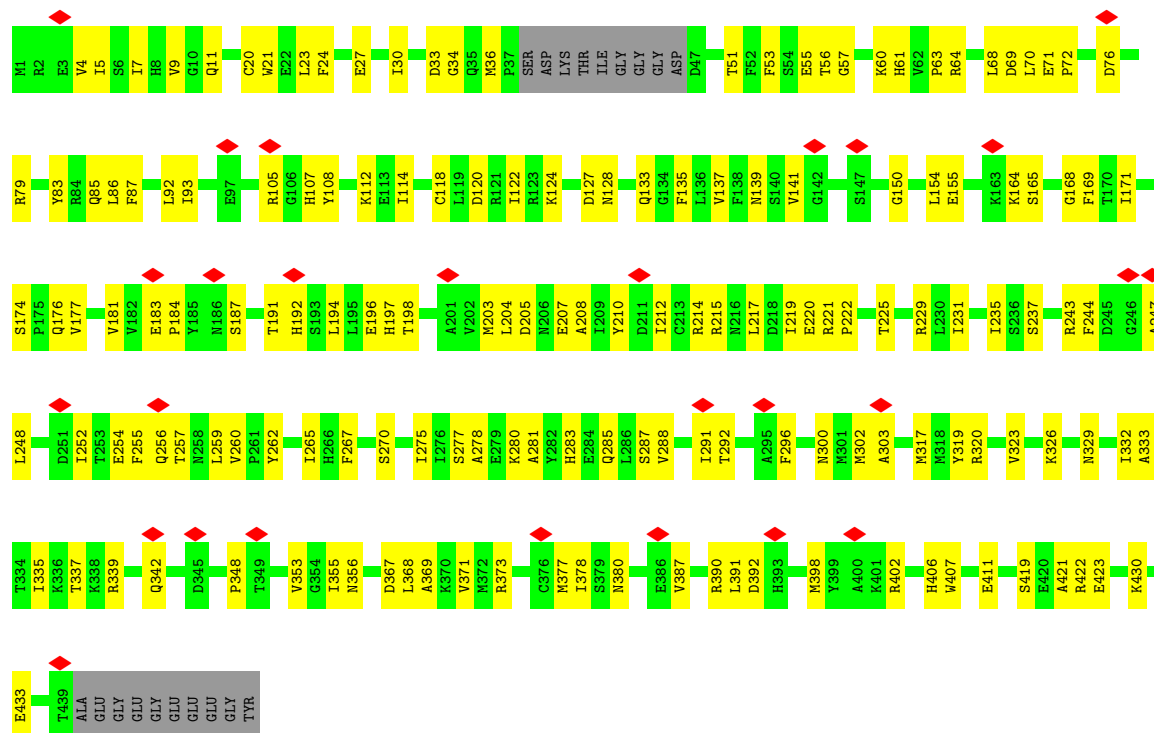


• Molecule 45: Tubulin alpha chain

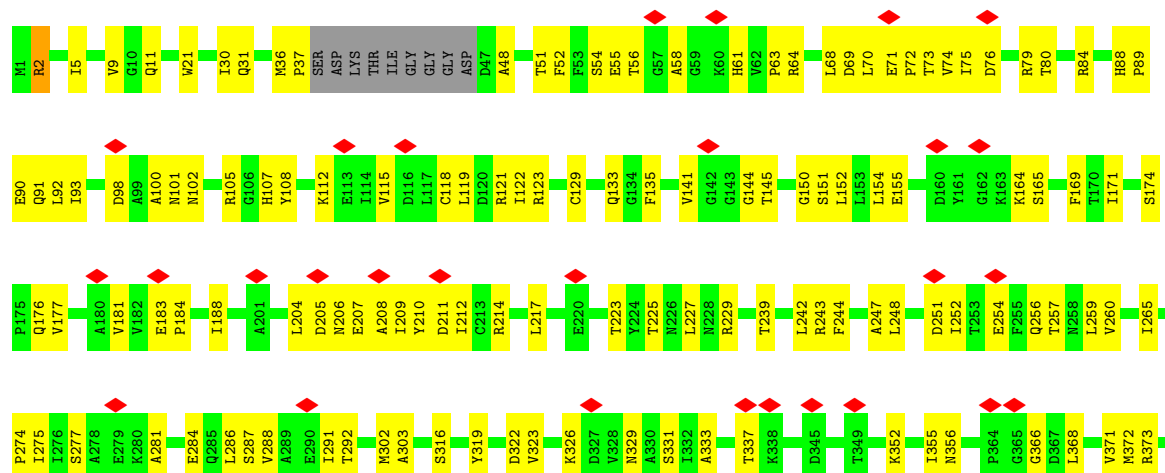


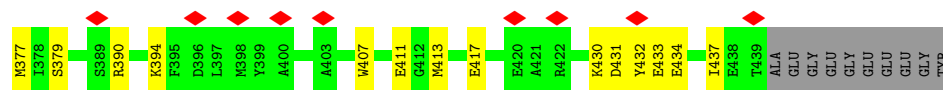


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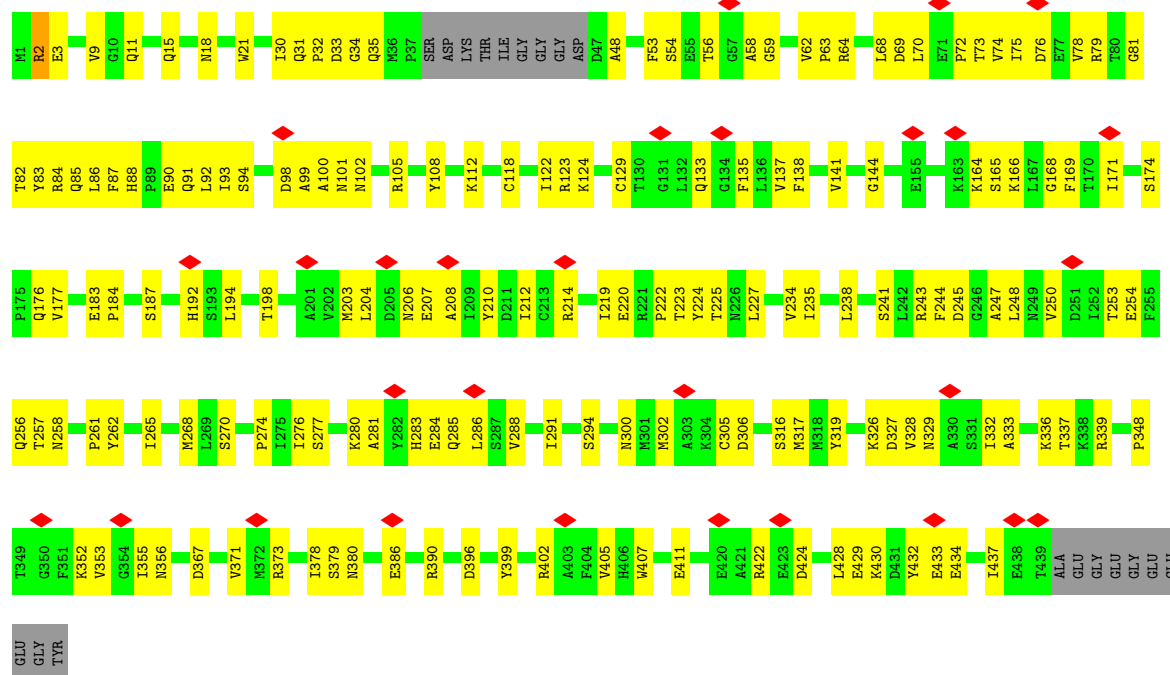


• Molecule 45: Tubulin alpha chain

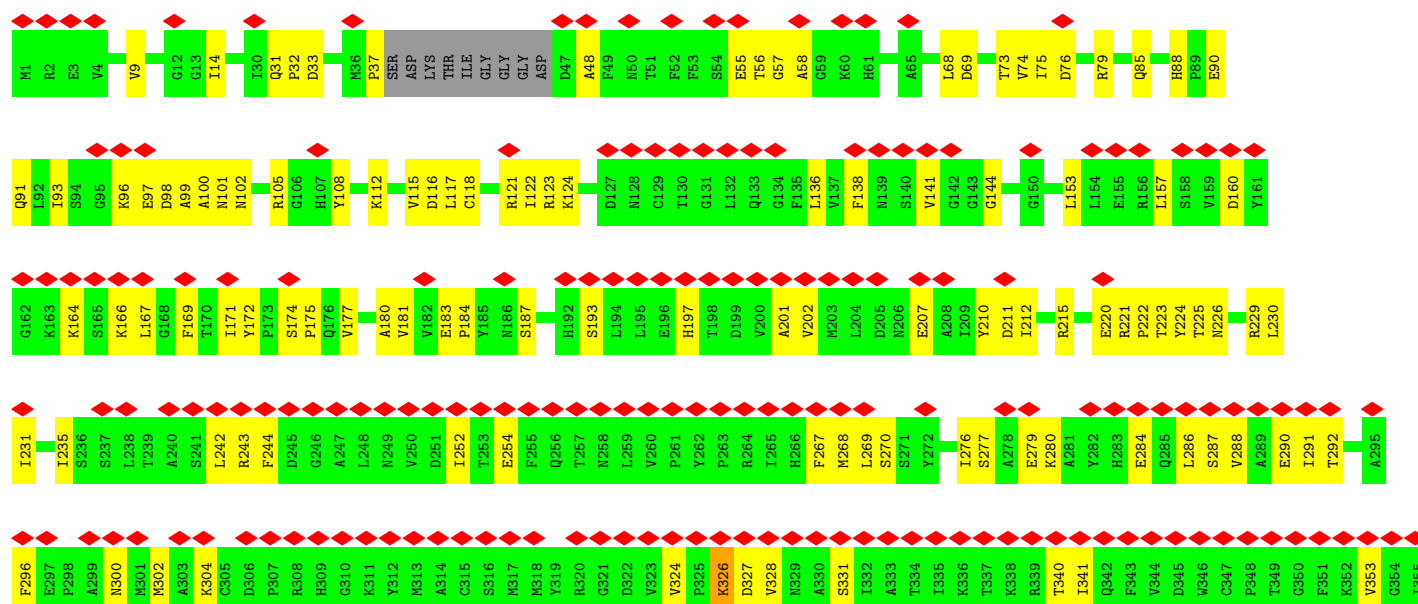


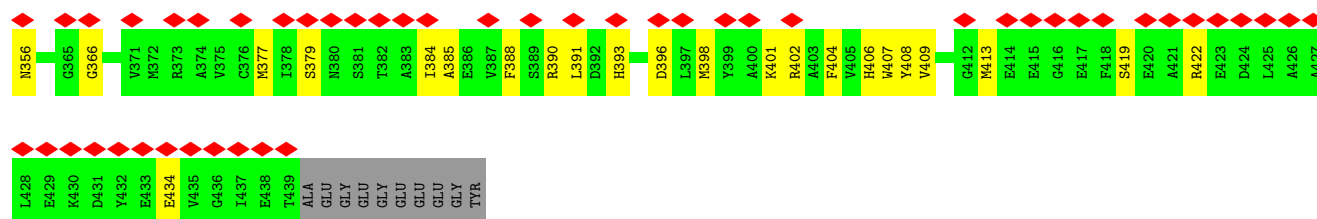


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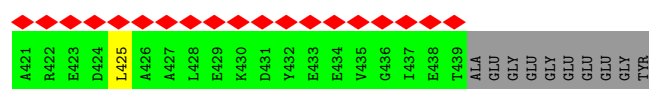
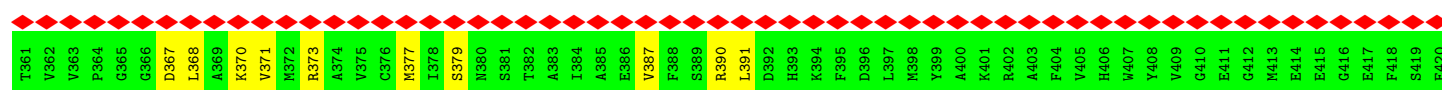
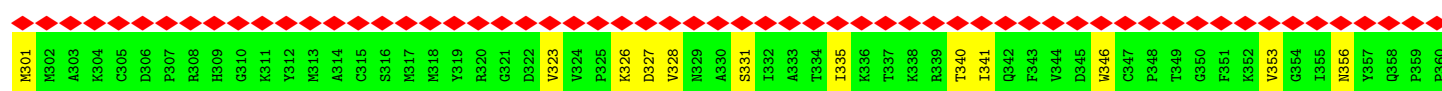
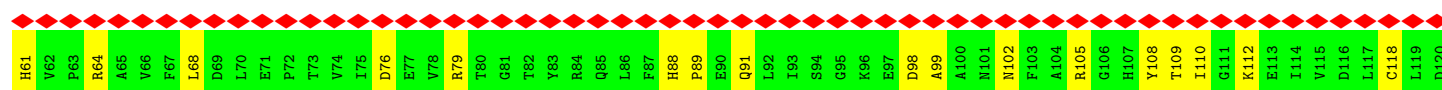
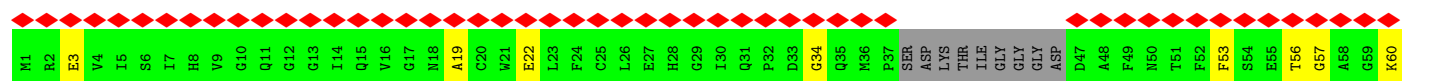
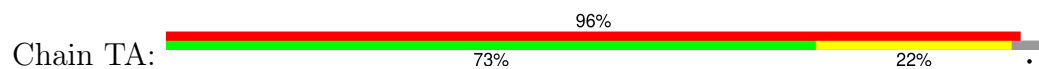


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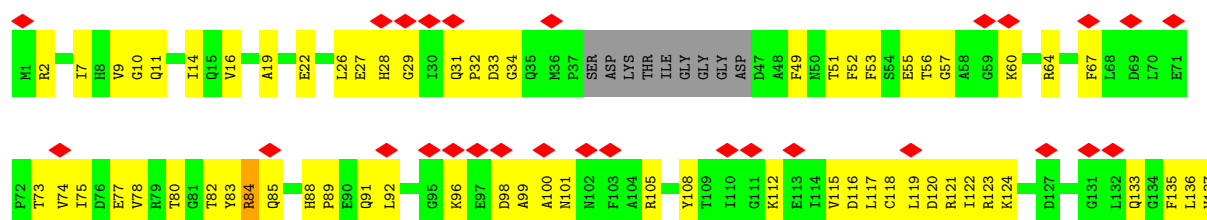


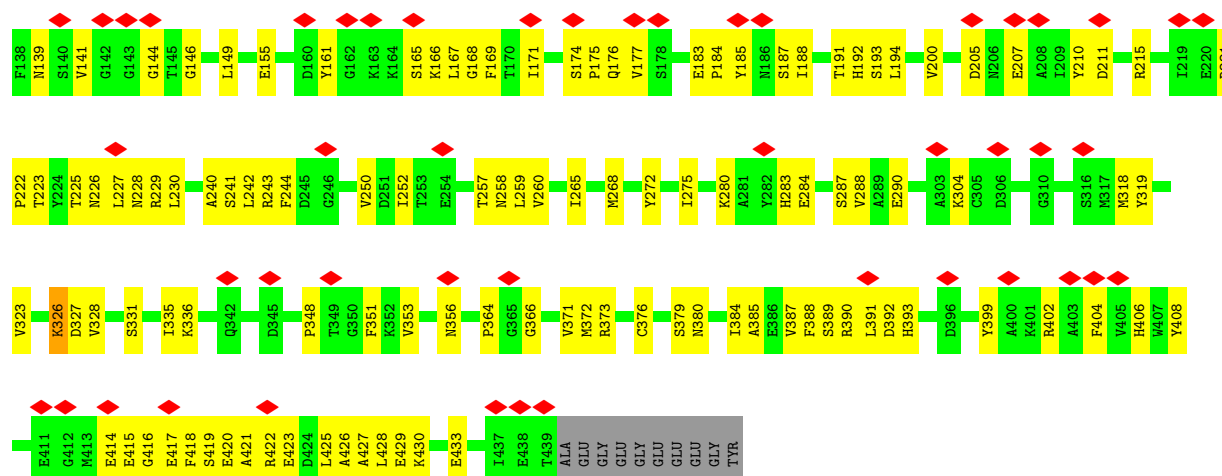


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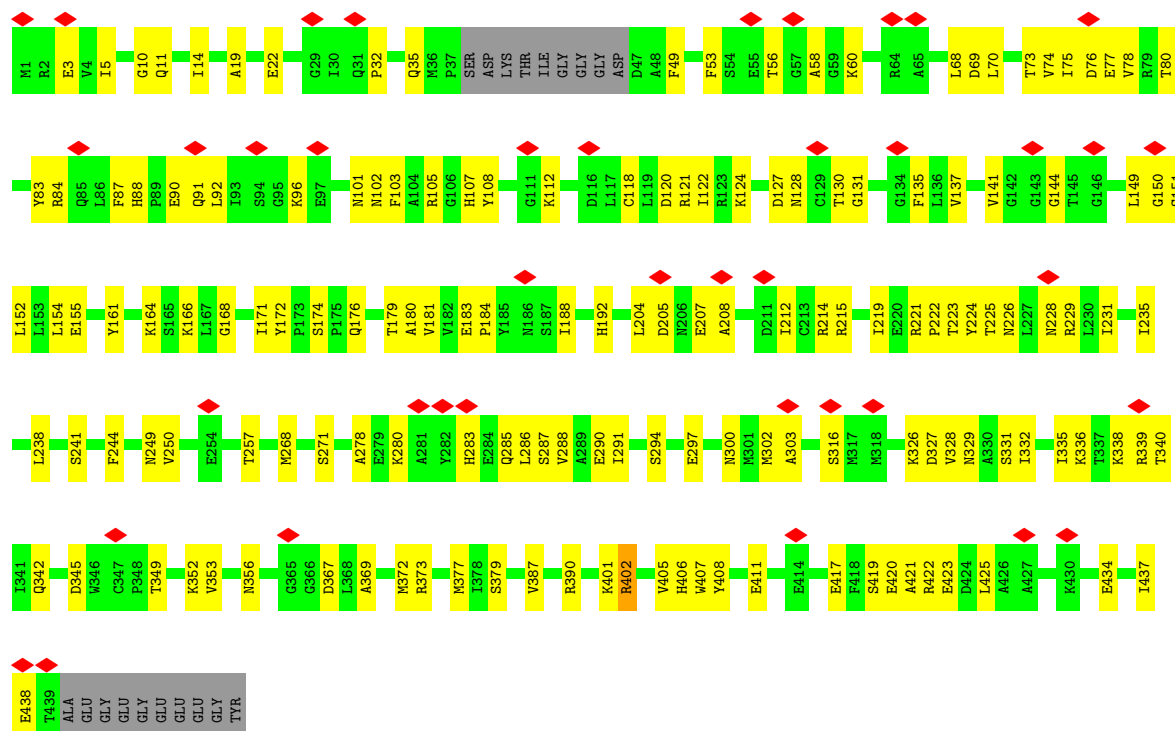


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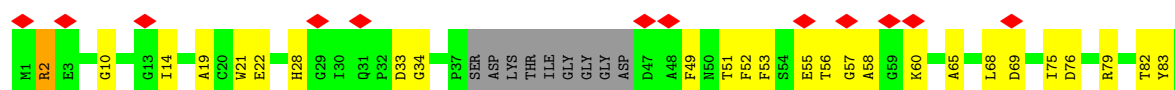


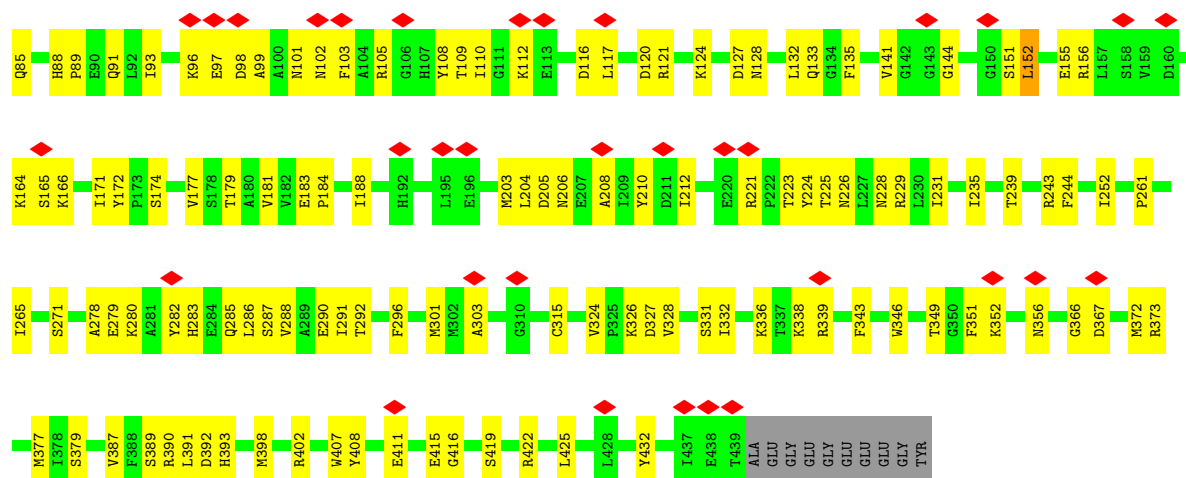


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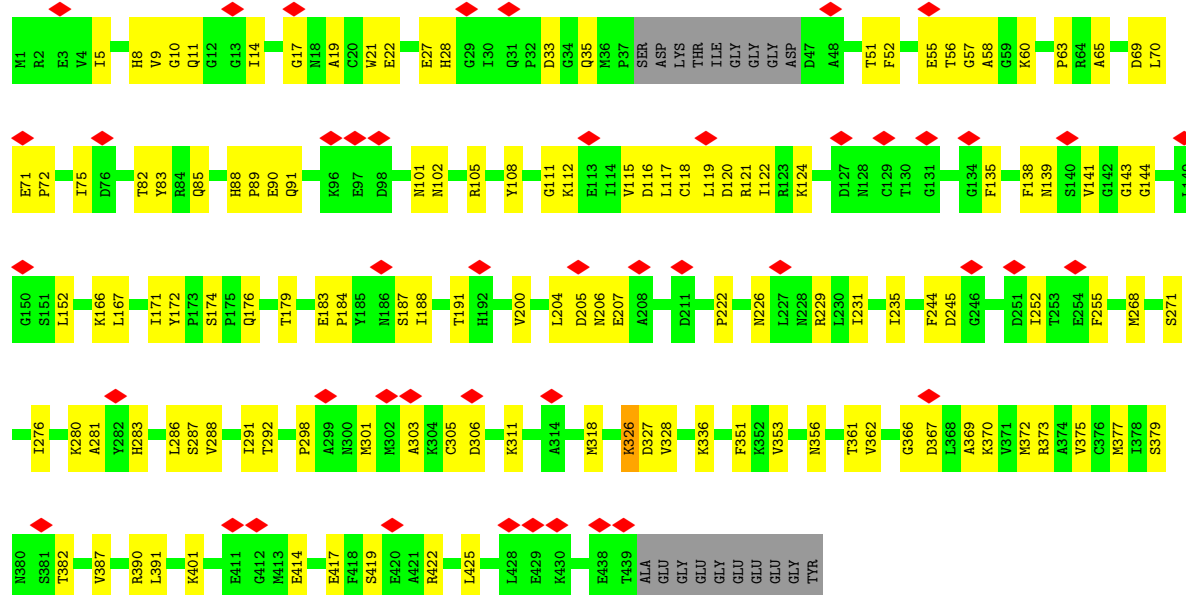


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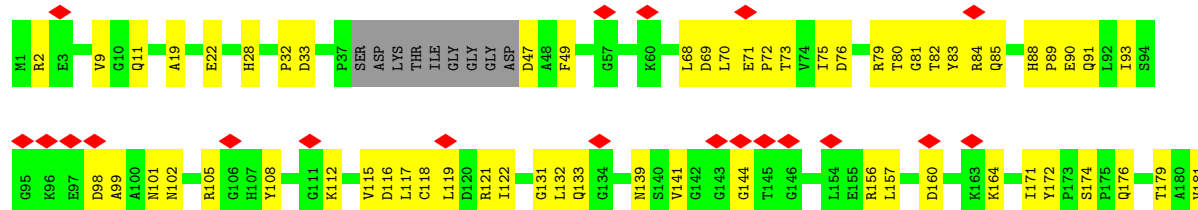


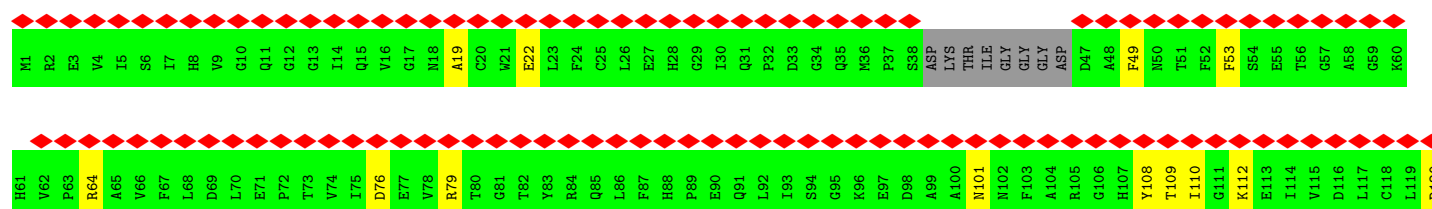


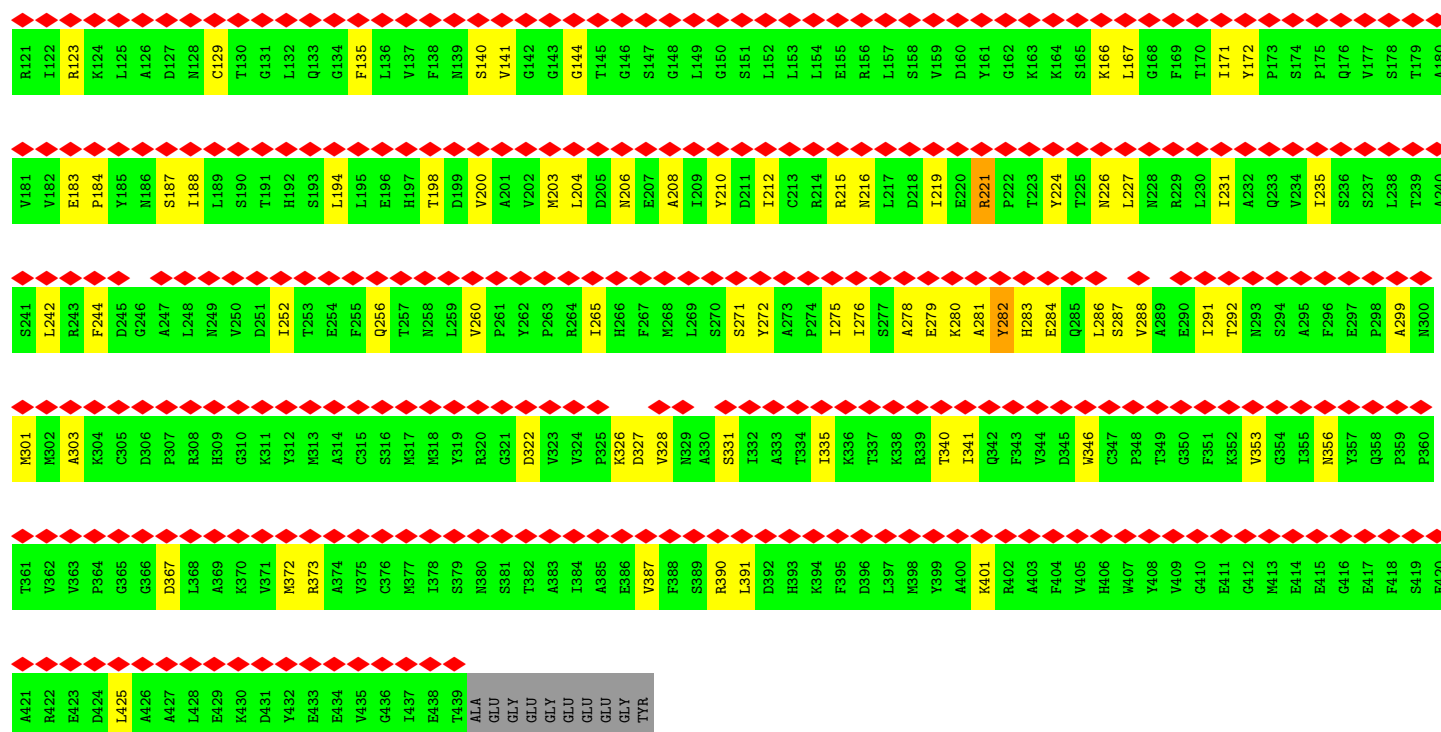
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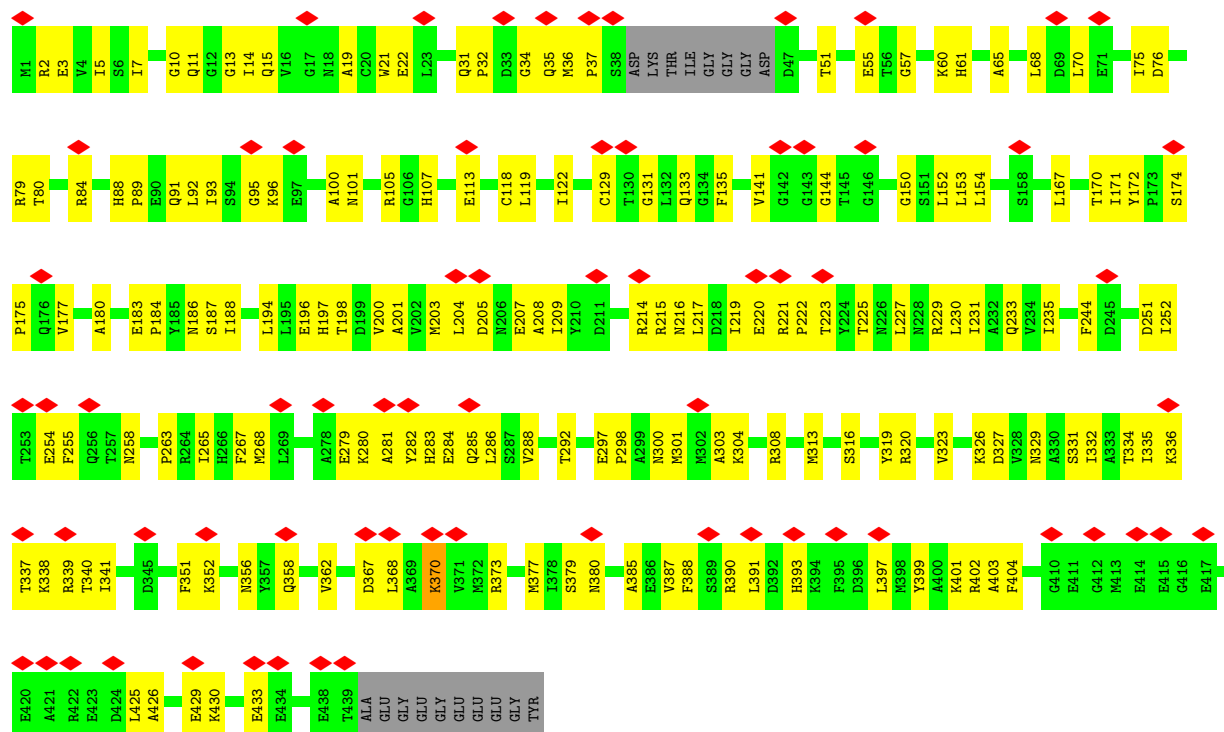
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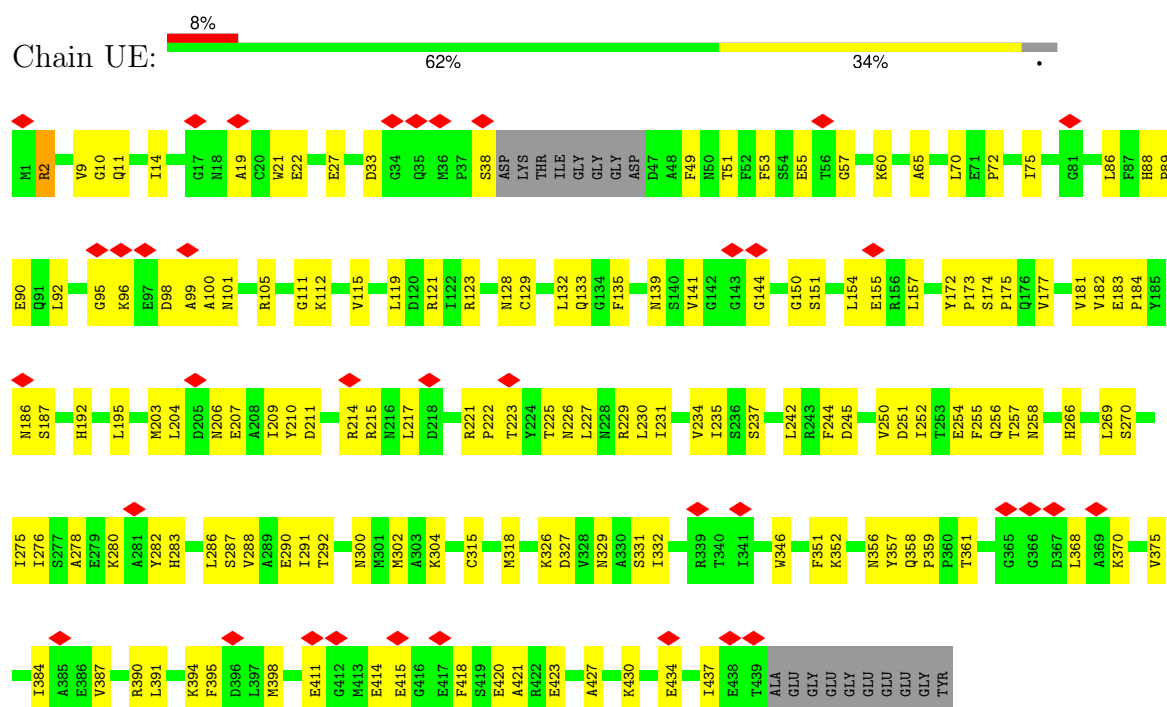




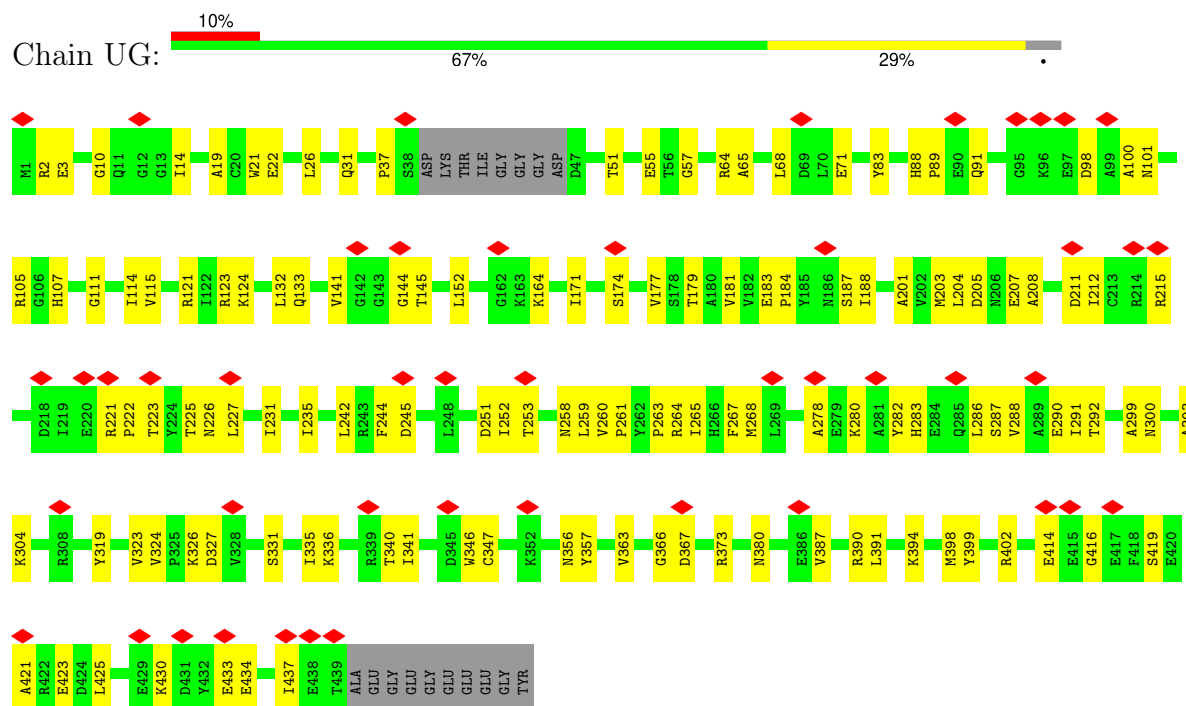
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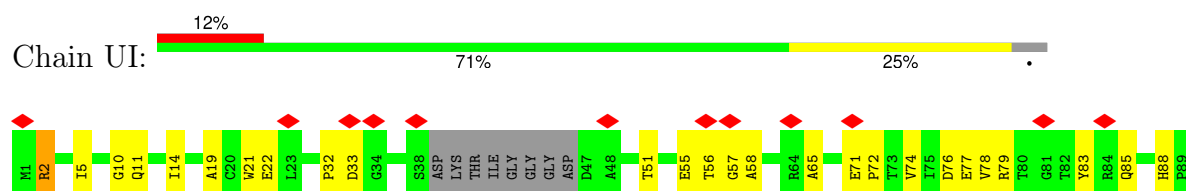
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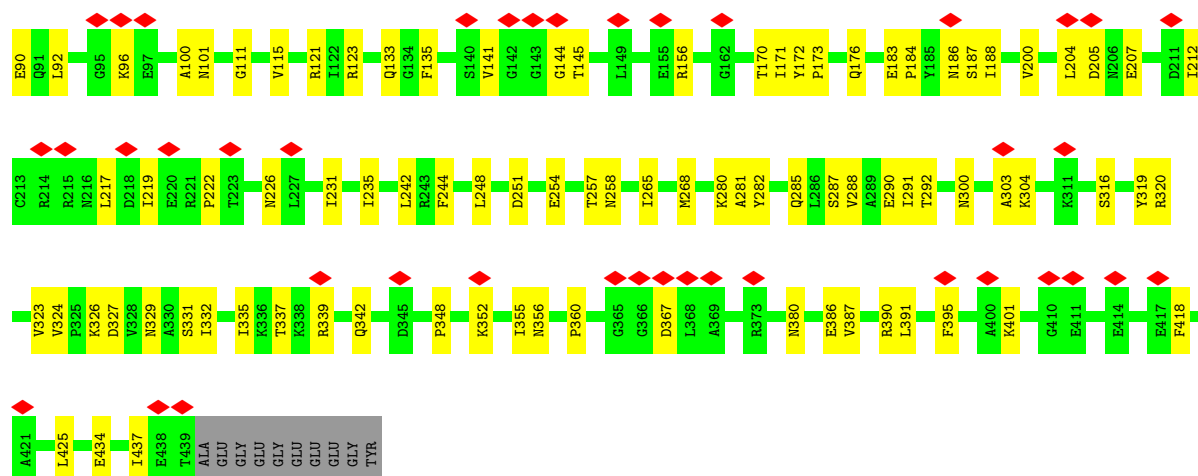


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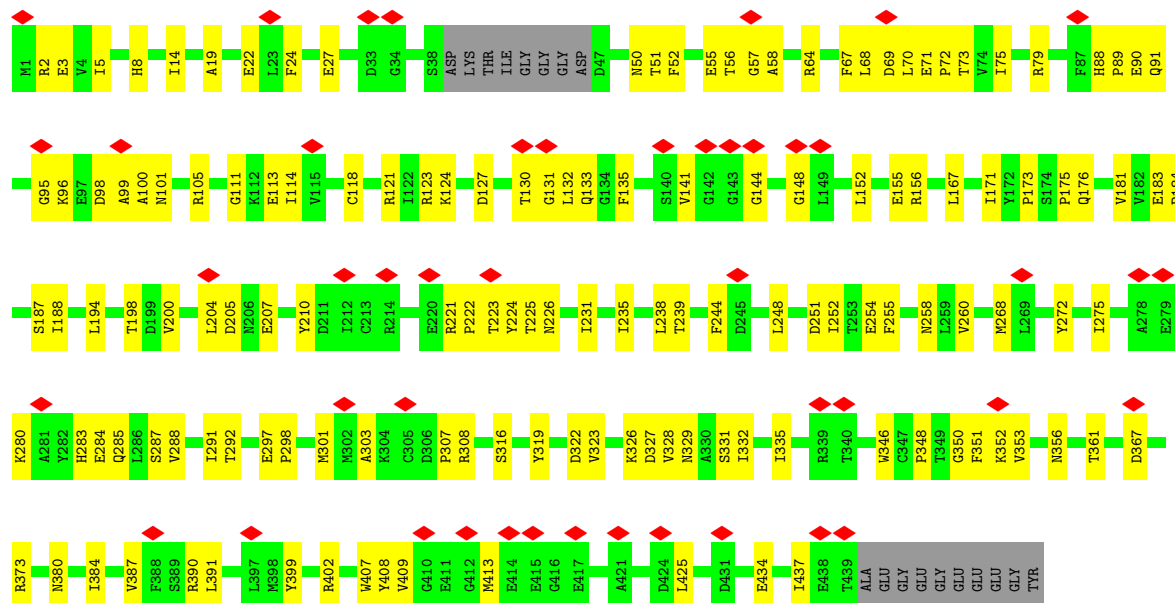


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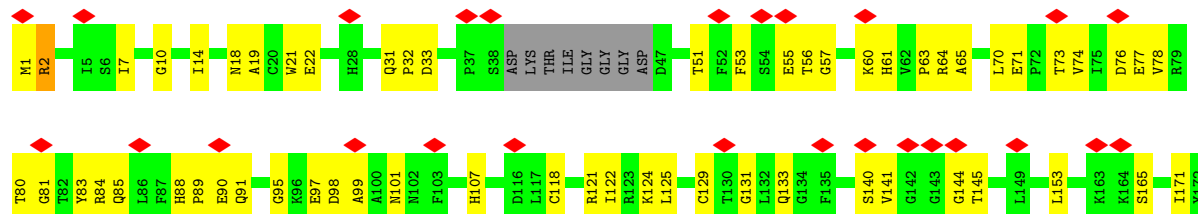


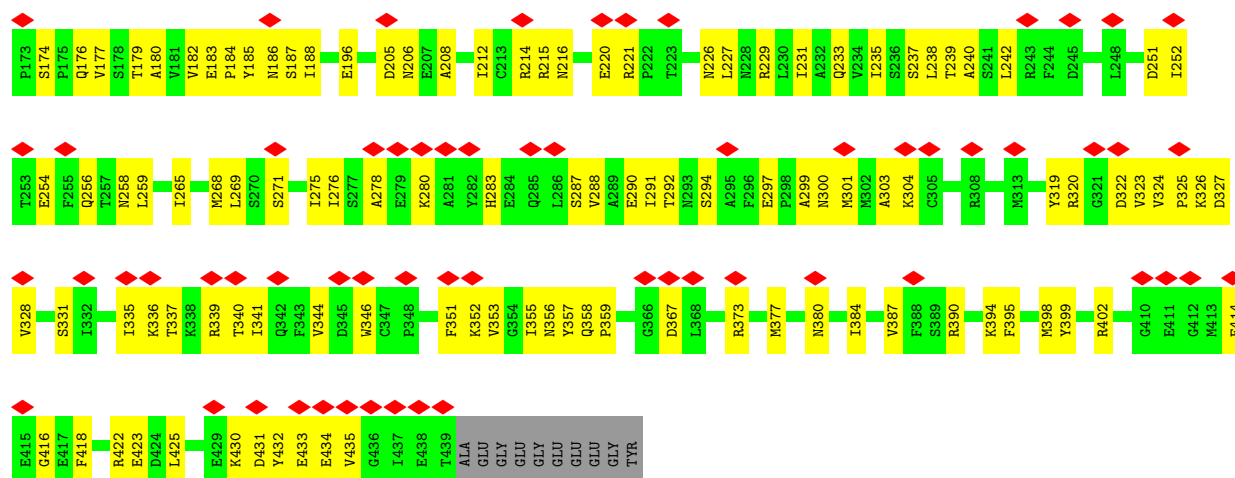


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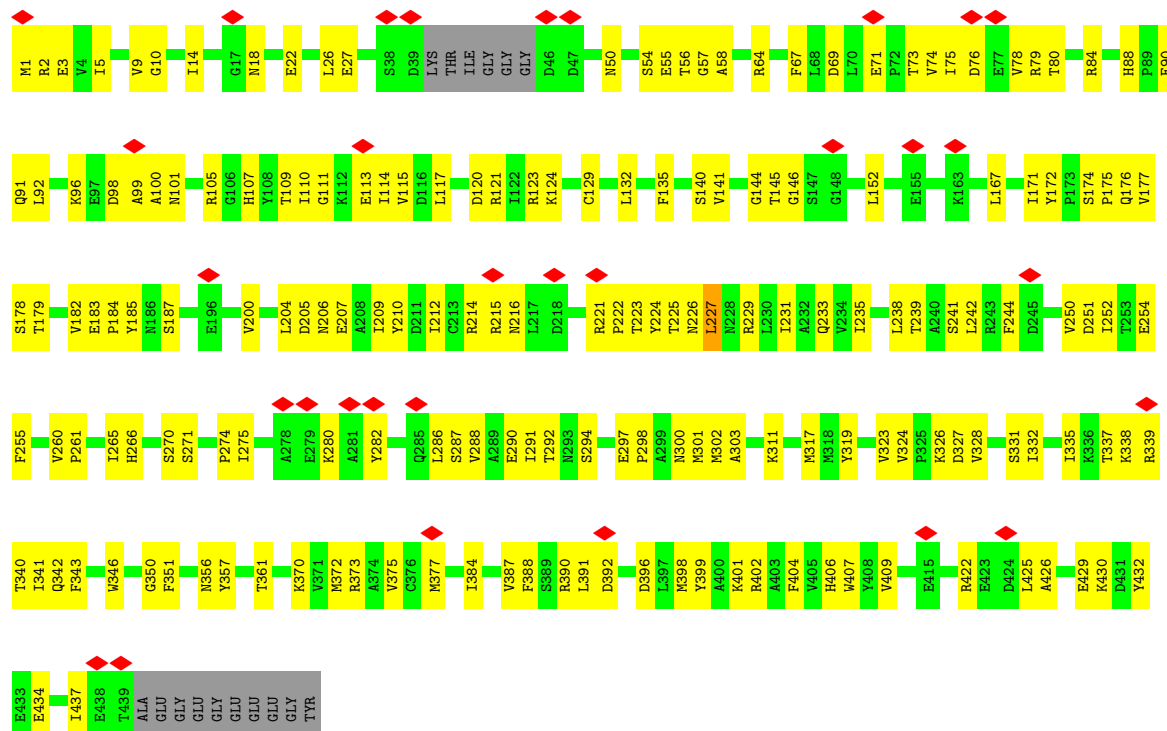


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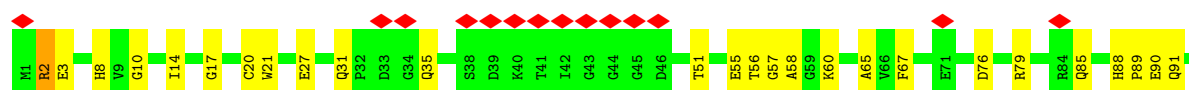


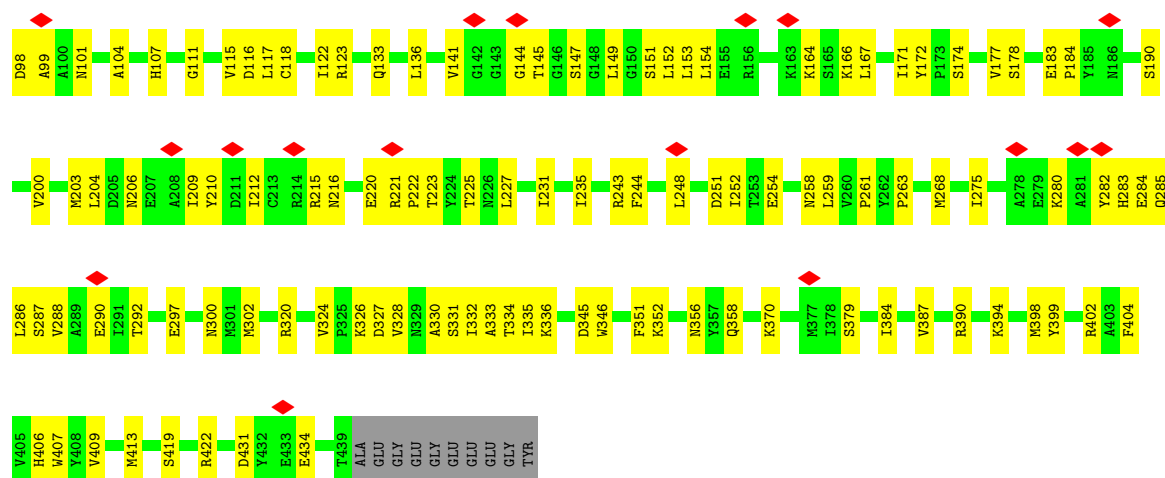


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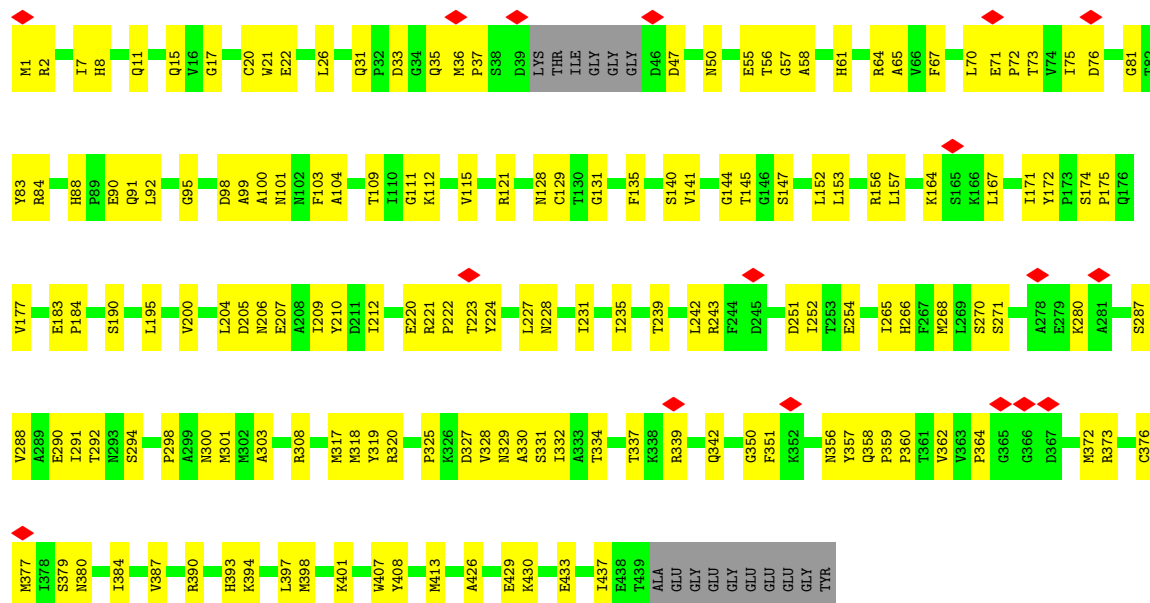
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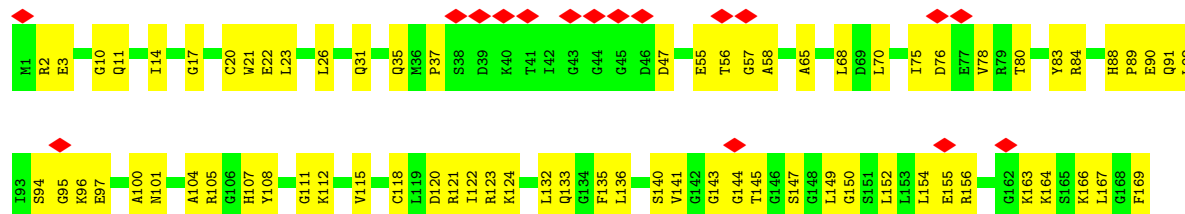
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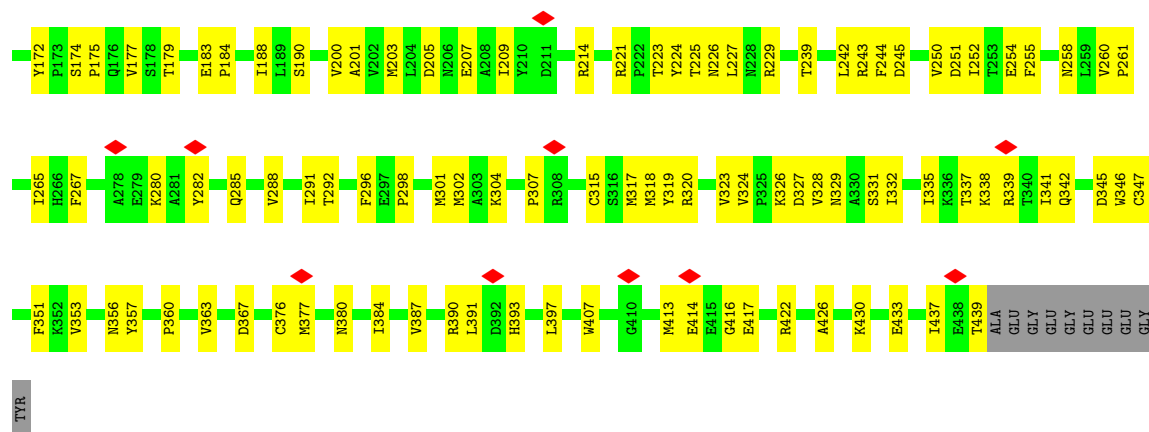
Chain VE: 61% 36%



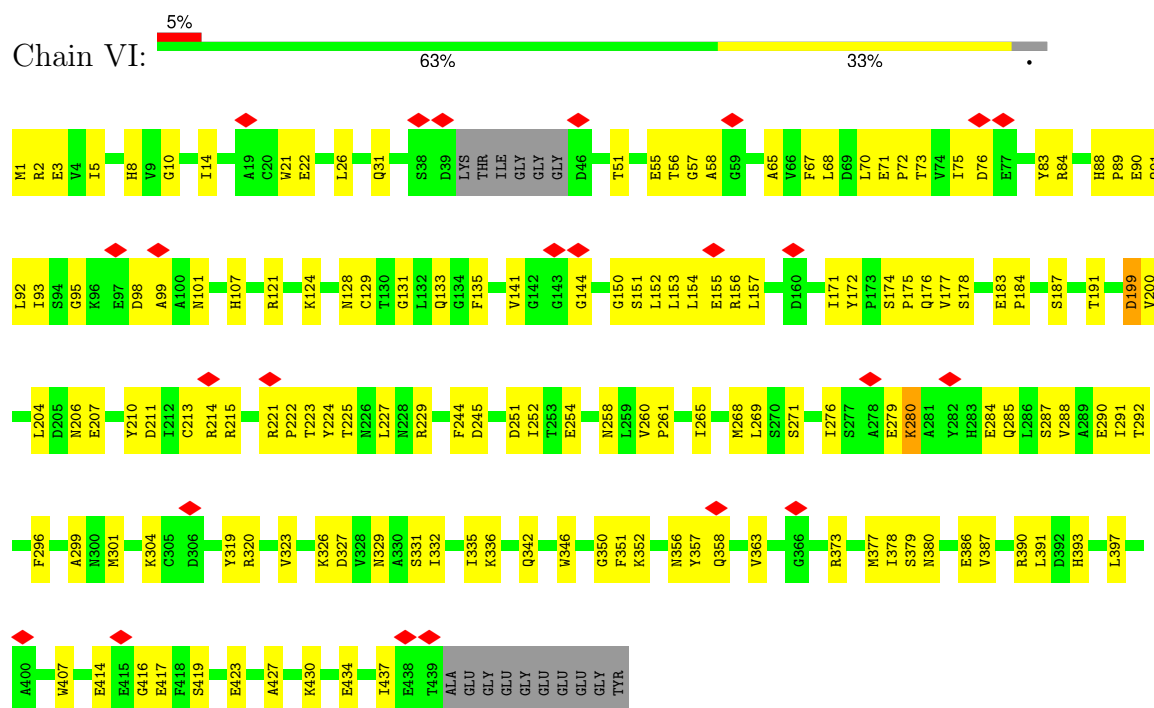
• Molecule 45: Tubulin alpha chain

Chain VG: 6% 59% 38%

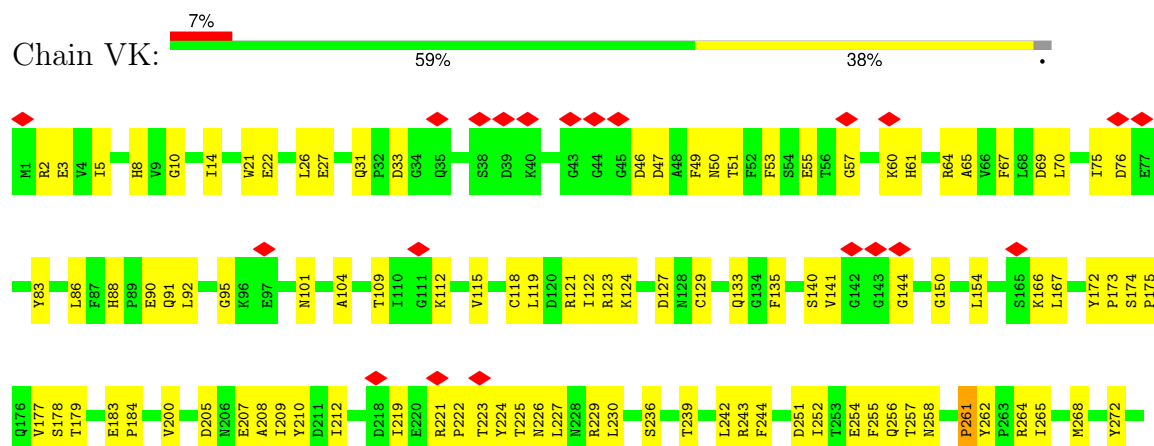


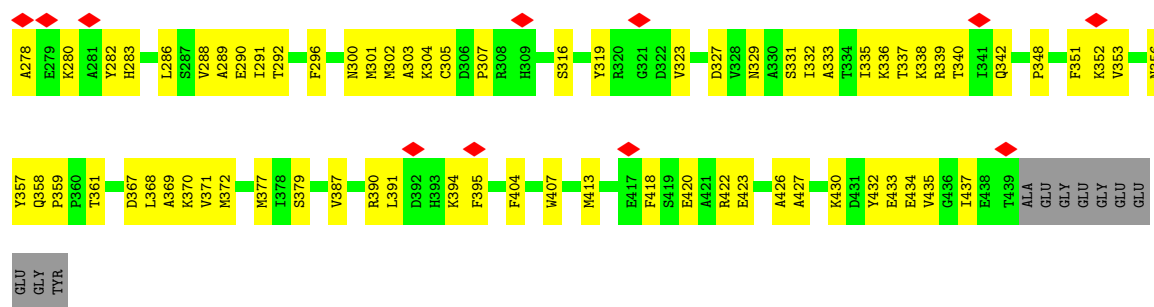


• Molecule 45: Tubulin alpha chain

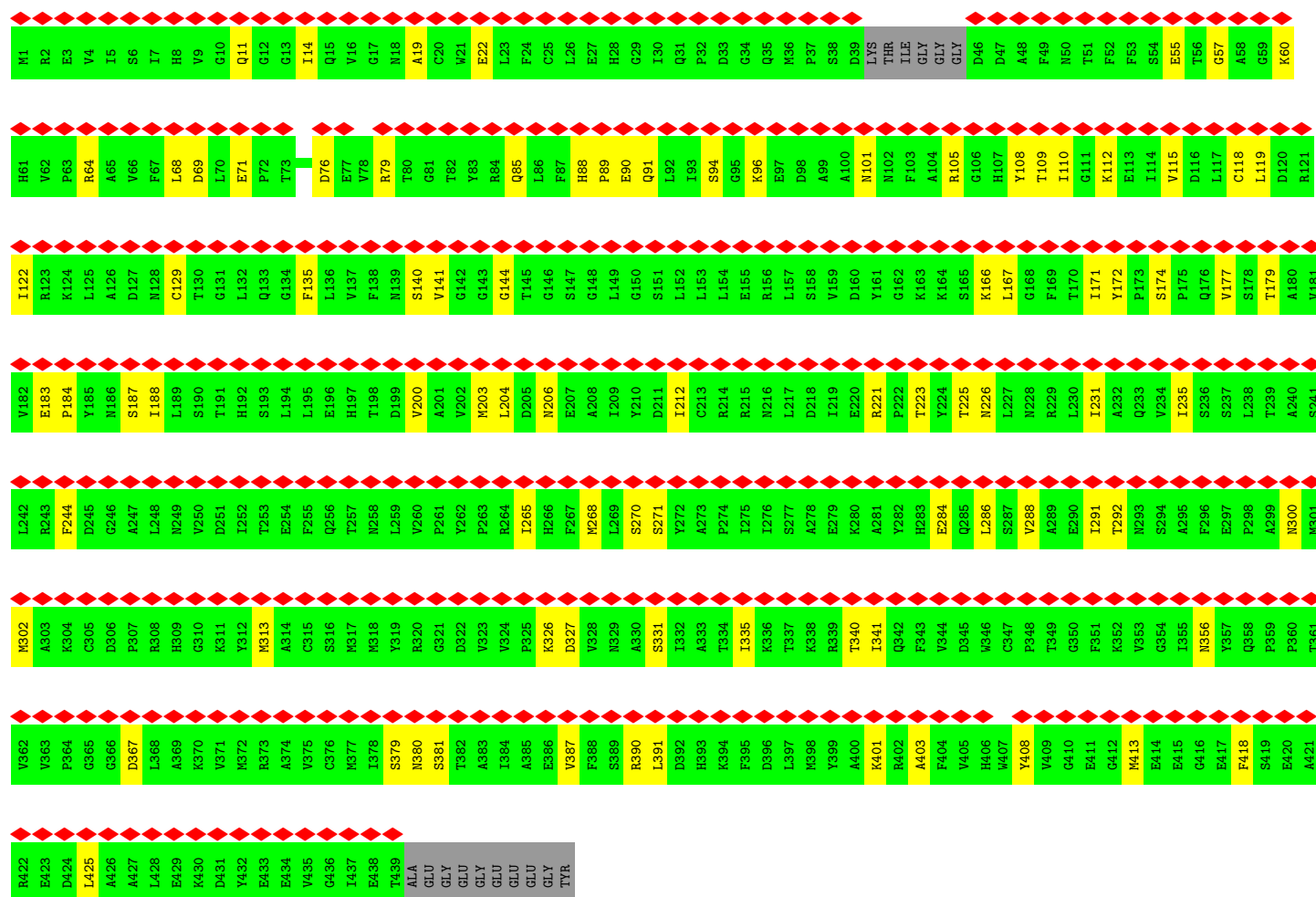
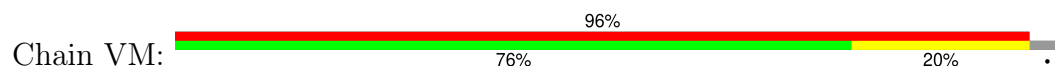


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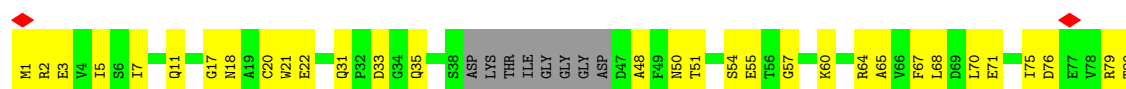


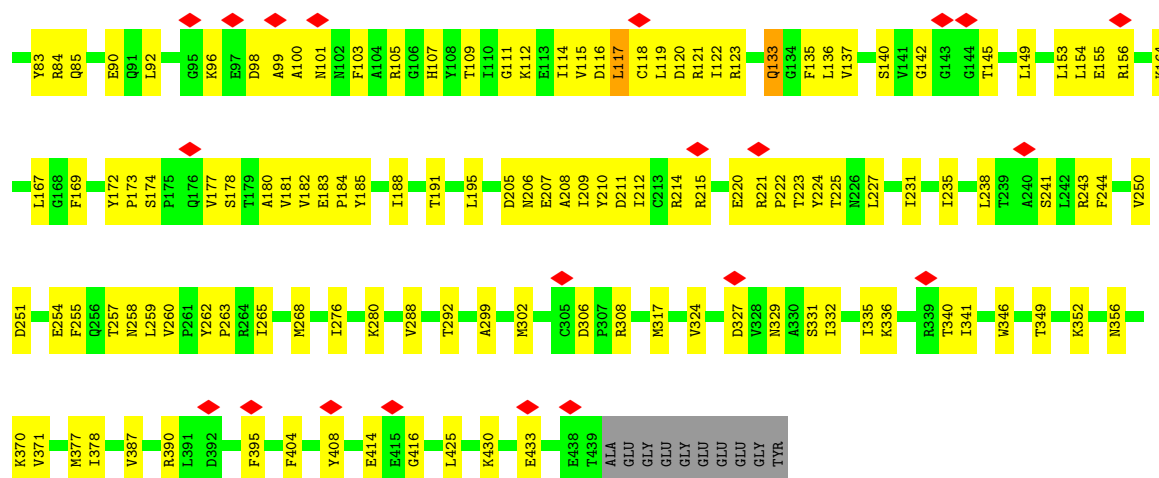


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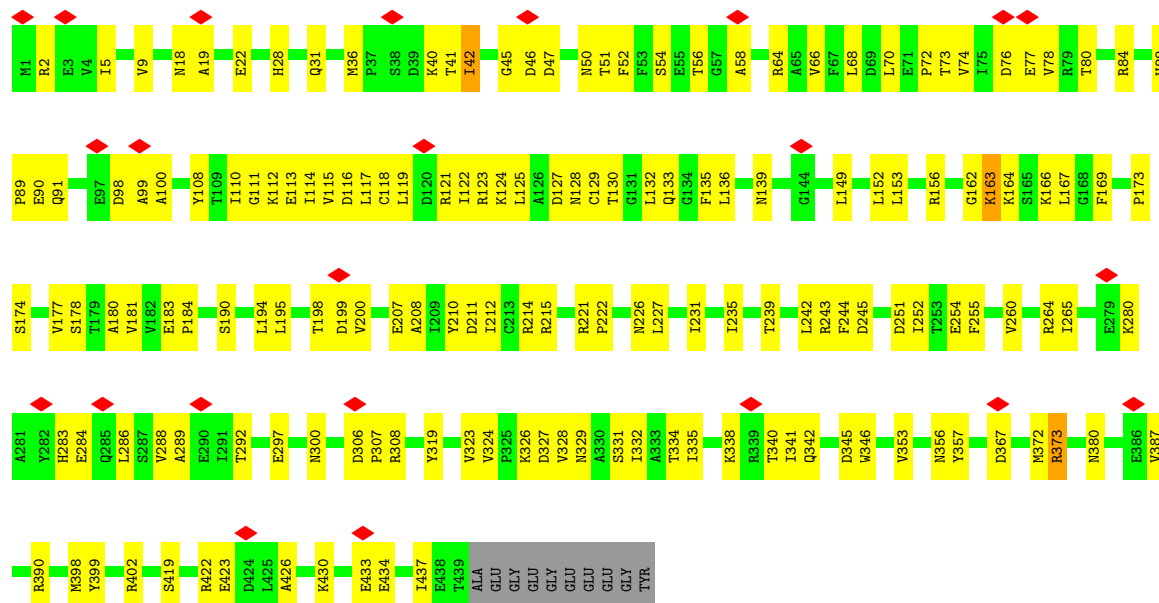


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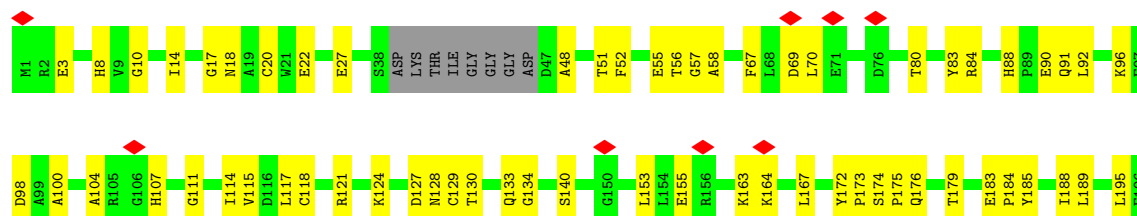


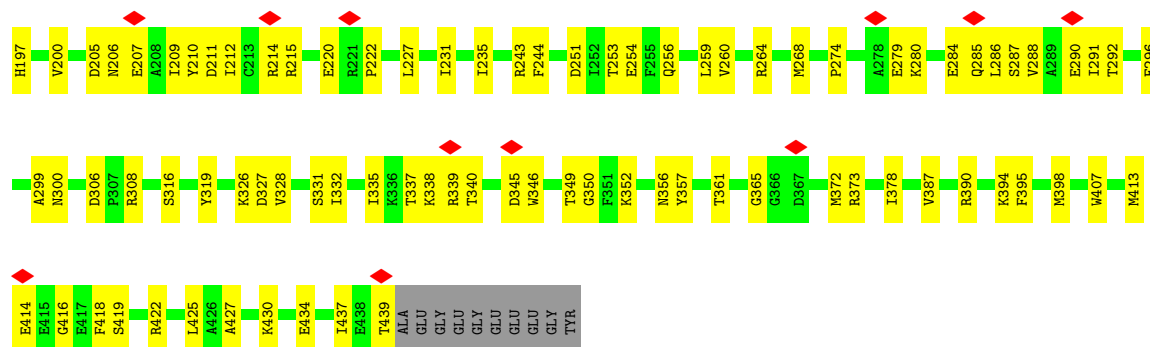


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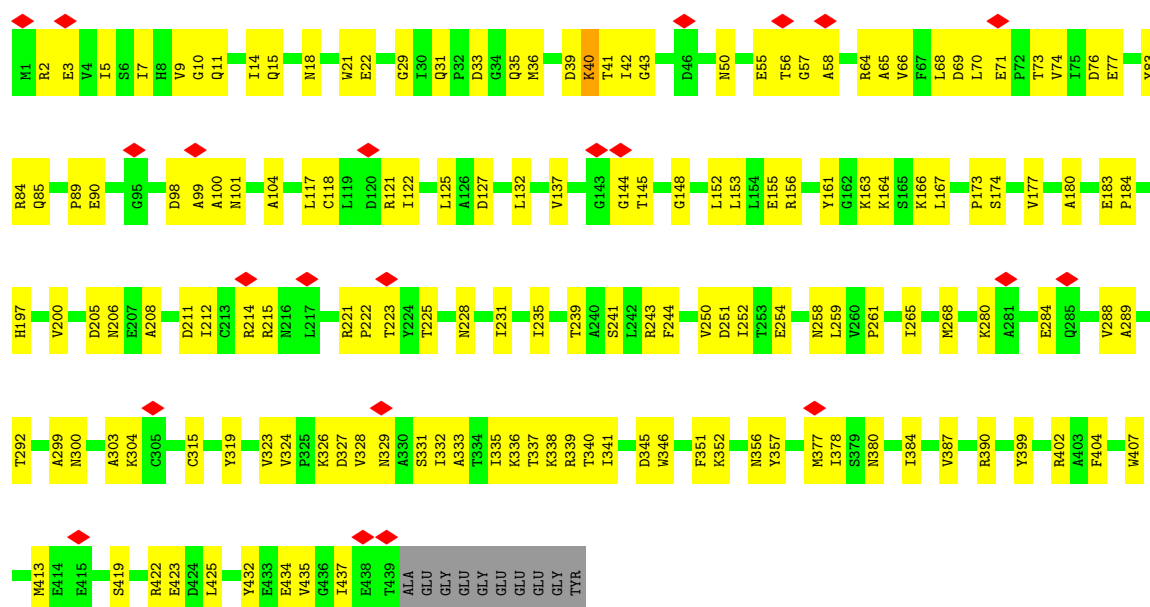


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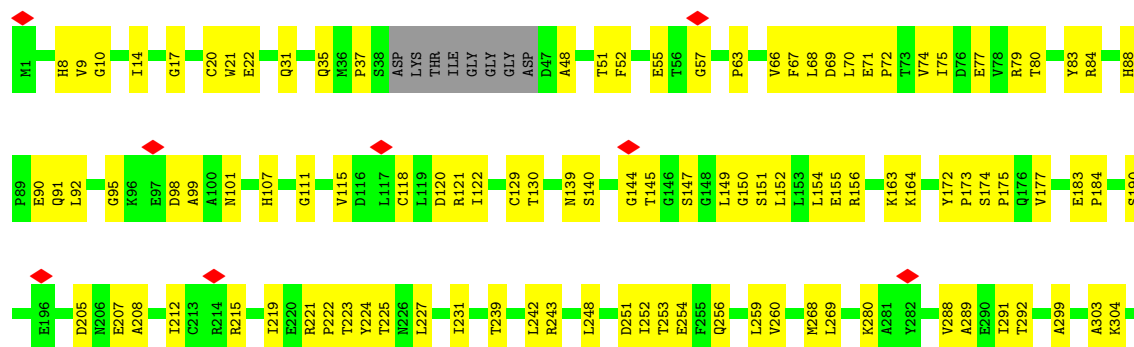




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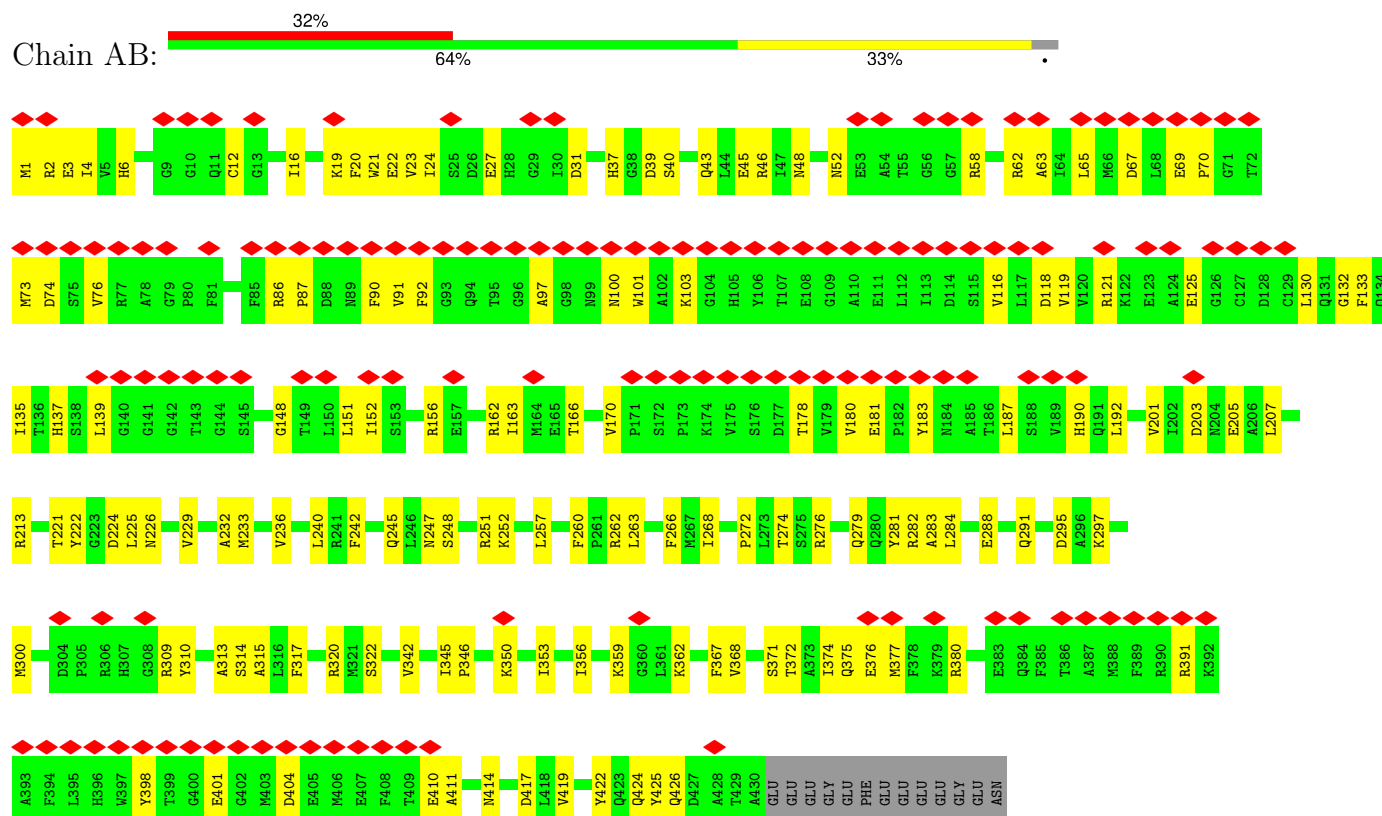


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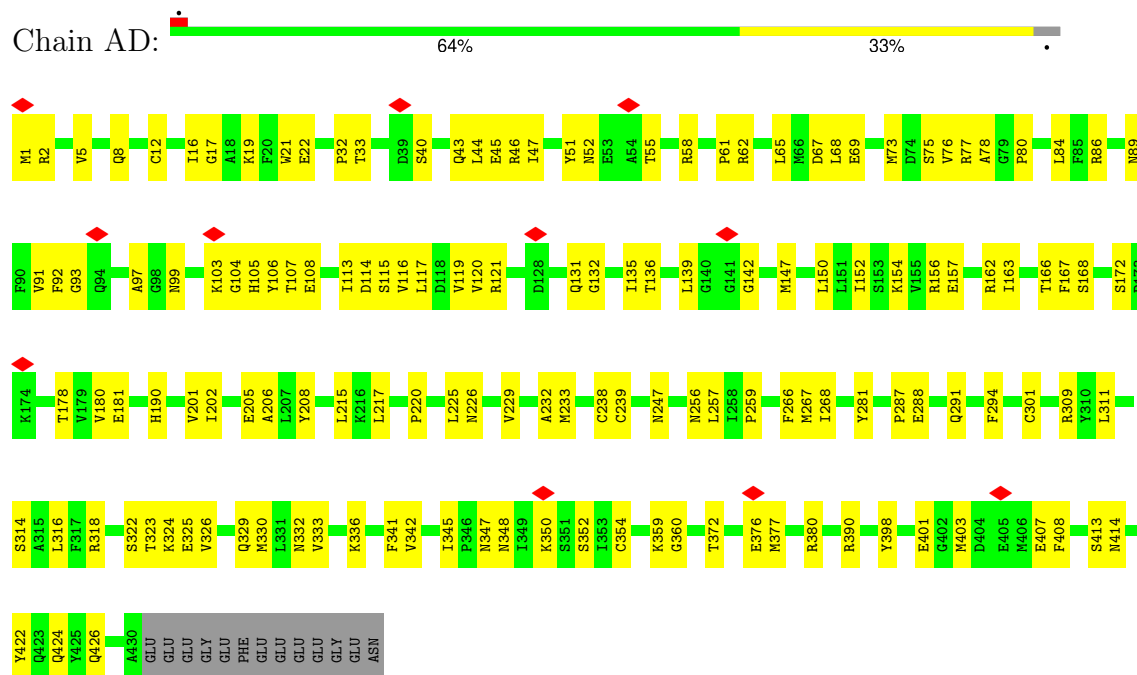
- Molecule 46: Tubulin beta chain

Chain AB:



- Molecule 46: Tubulin beta chain

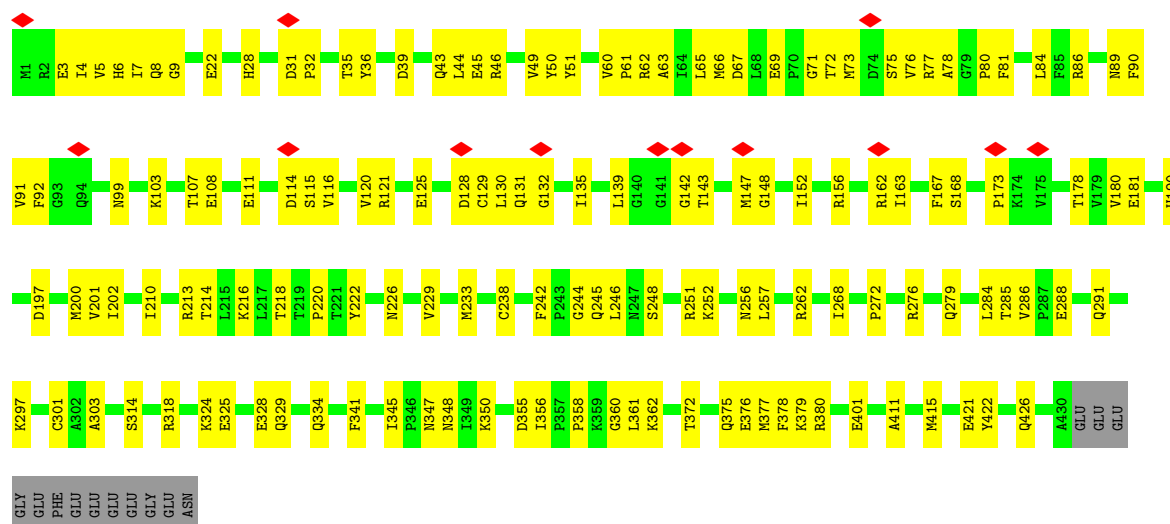
Chain AD:



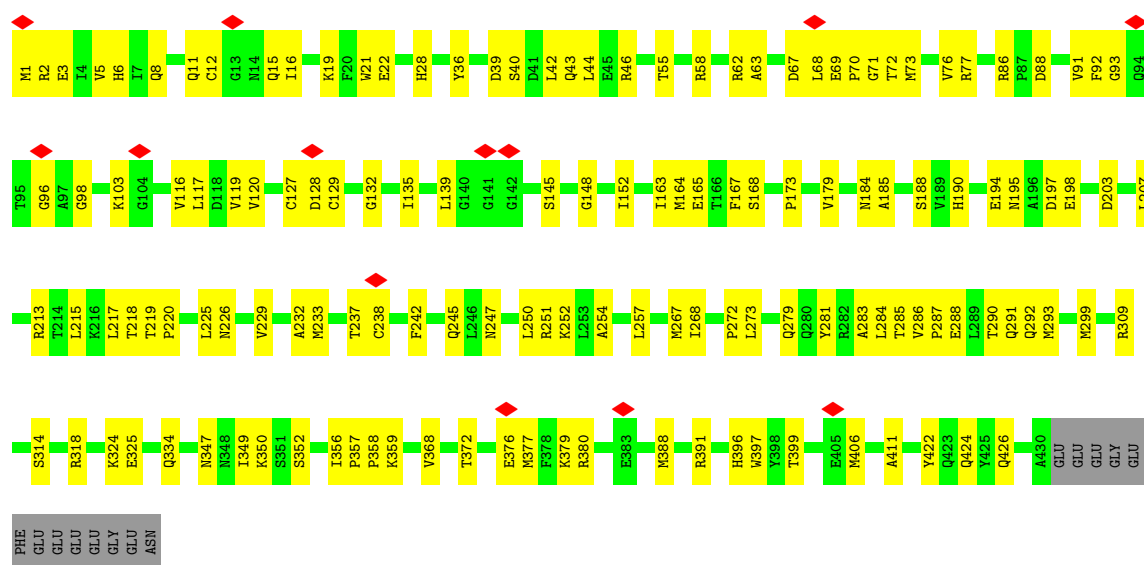
- Molecule 46: Tubulin beta chain

Chain AF:

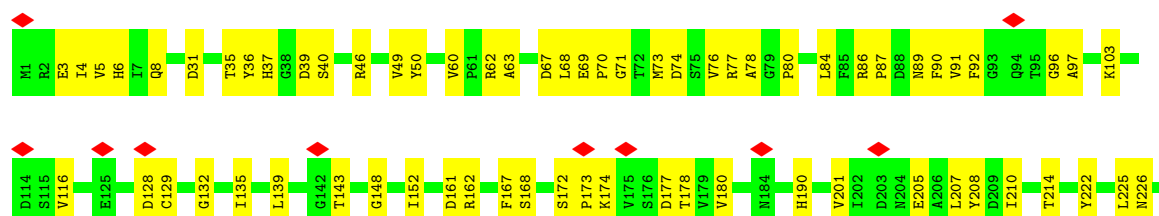


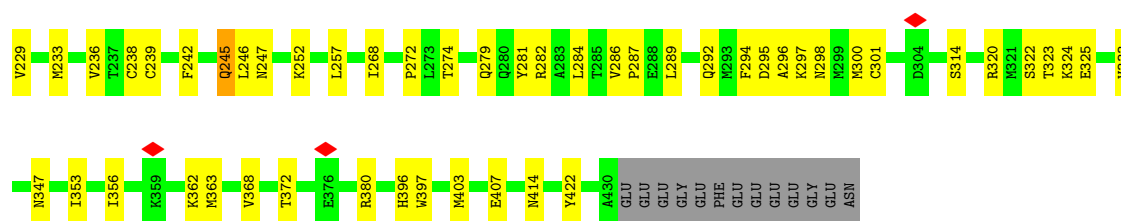


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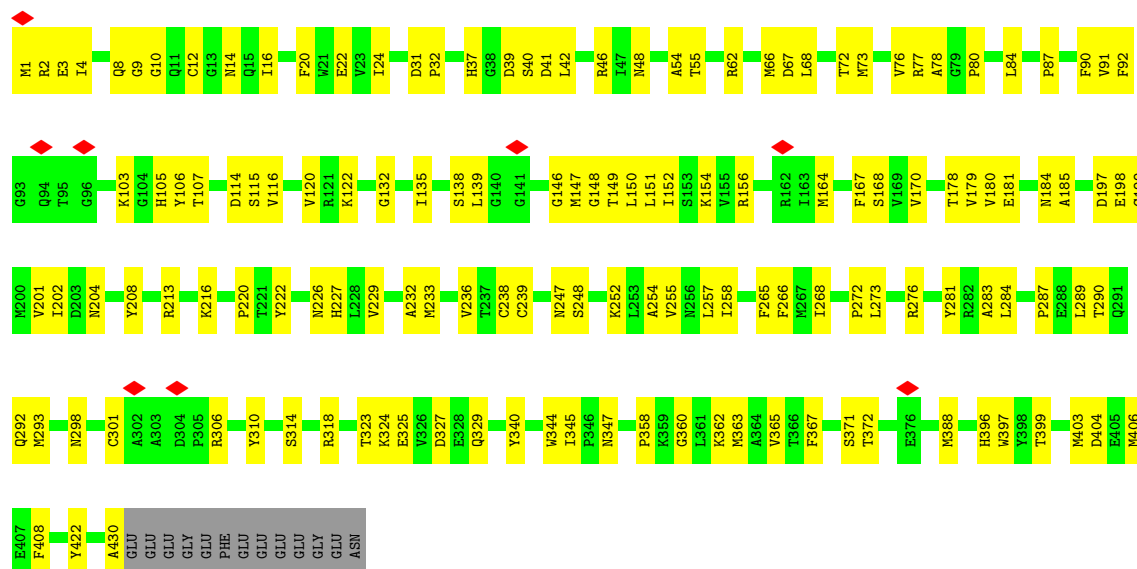


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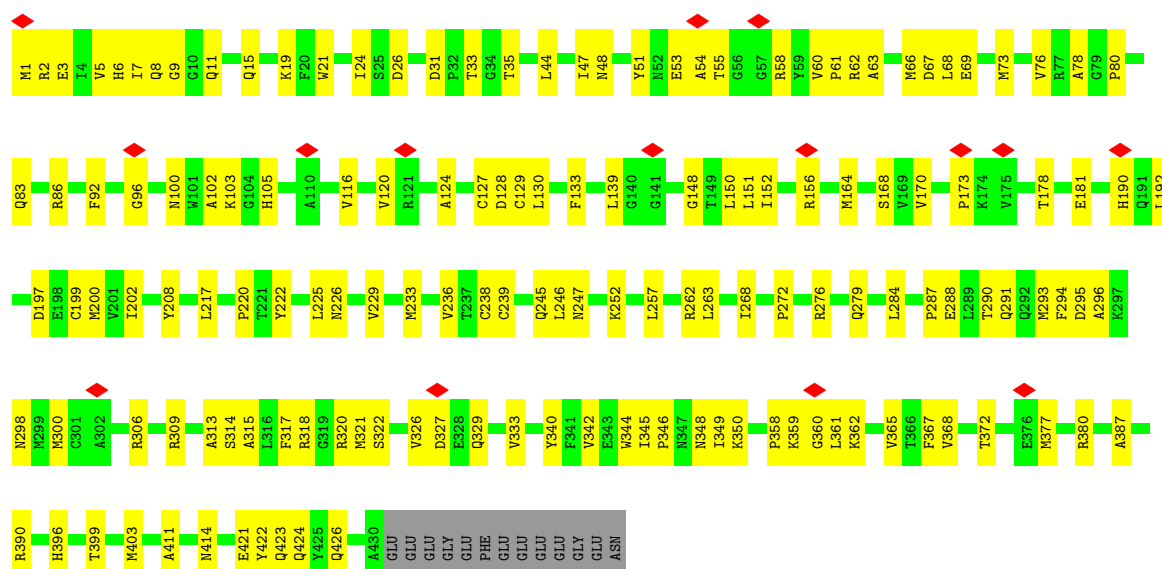




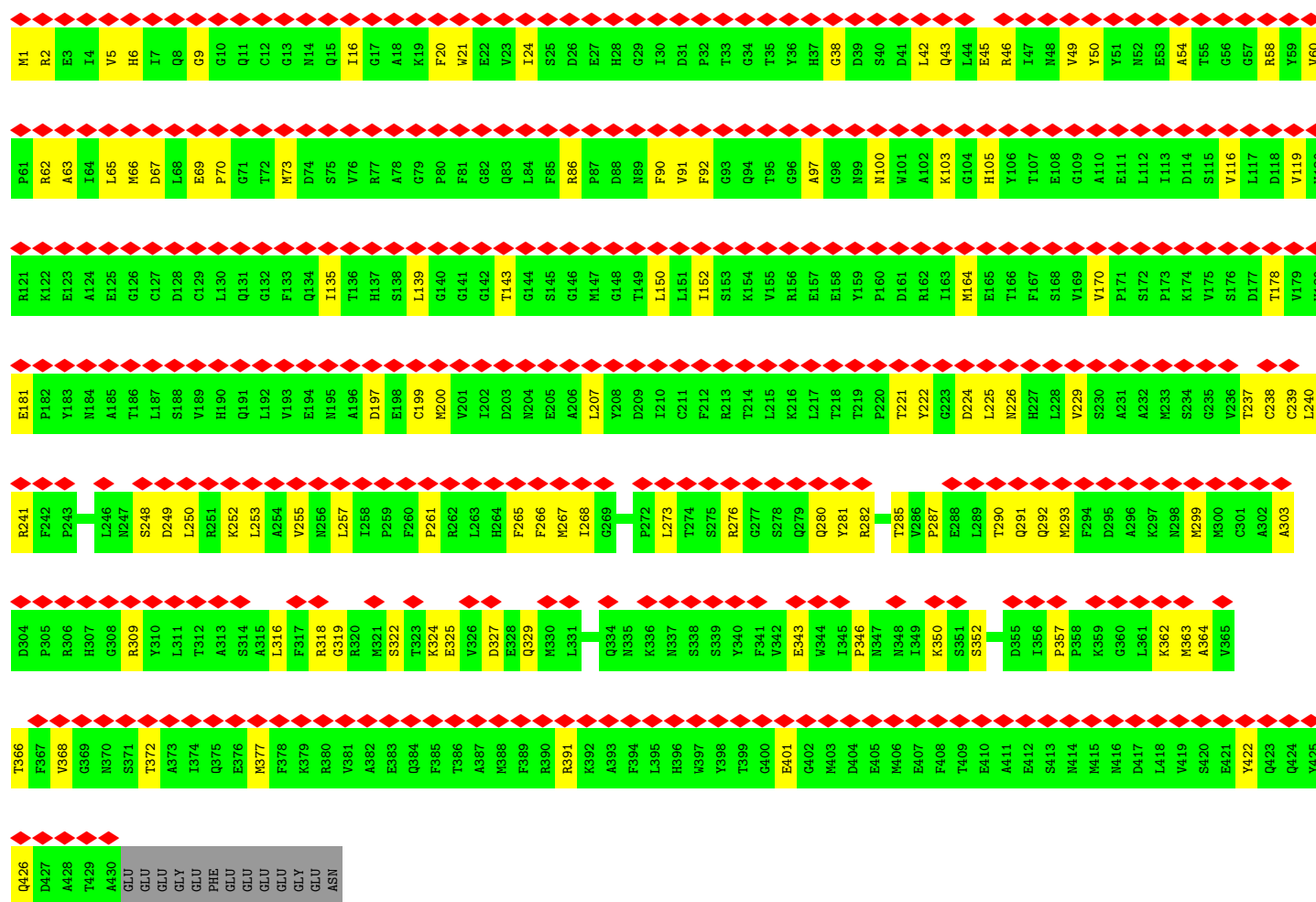
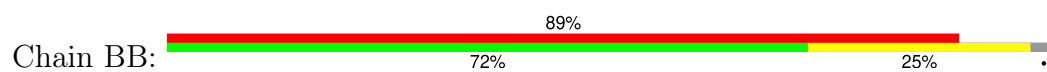
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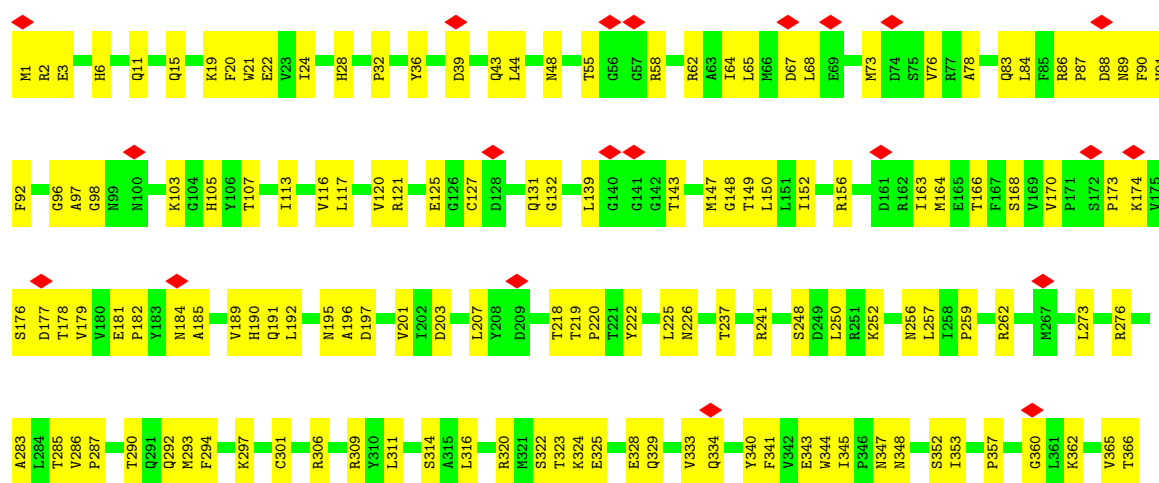
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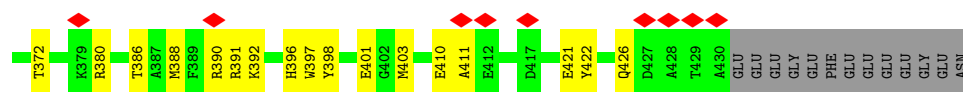


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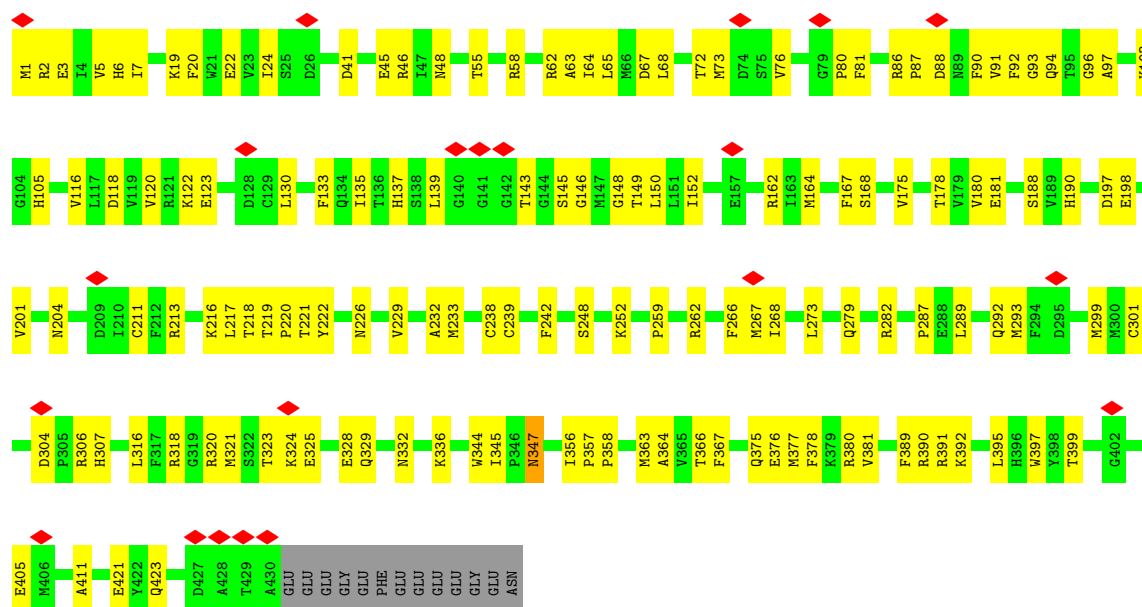


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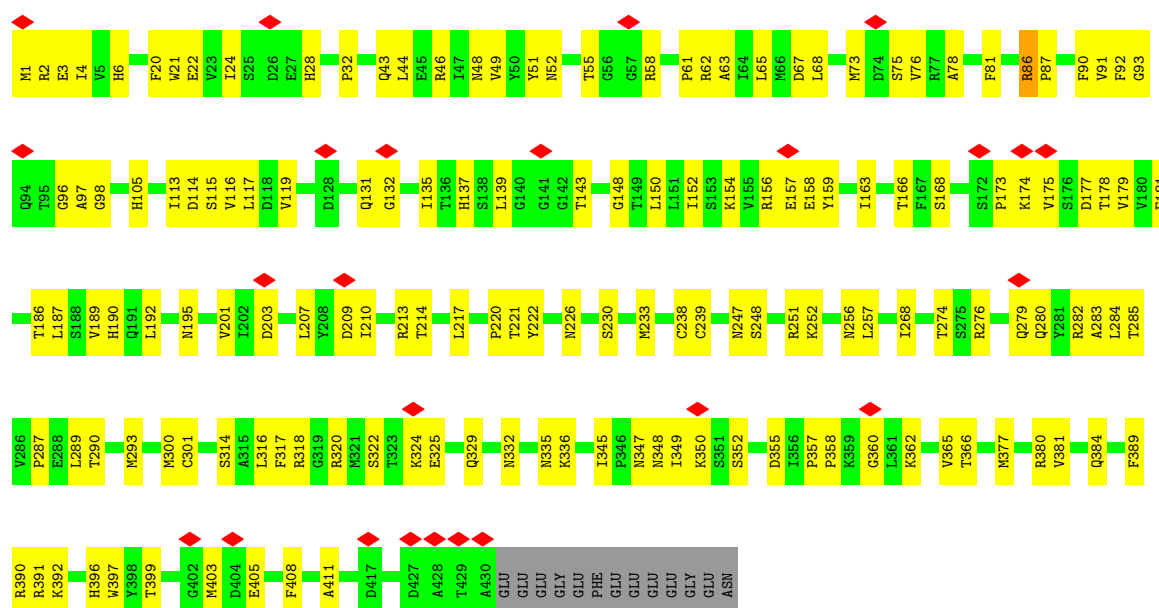




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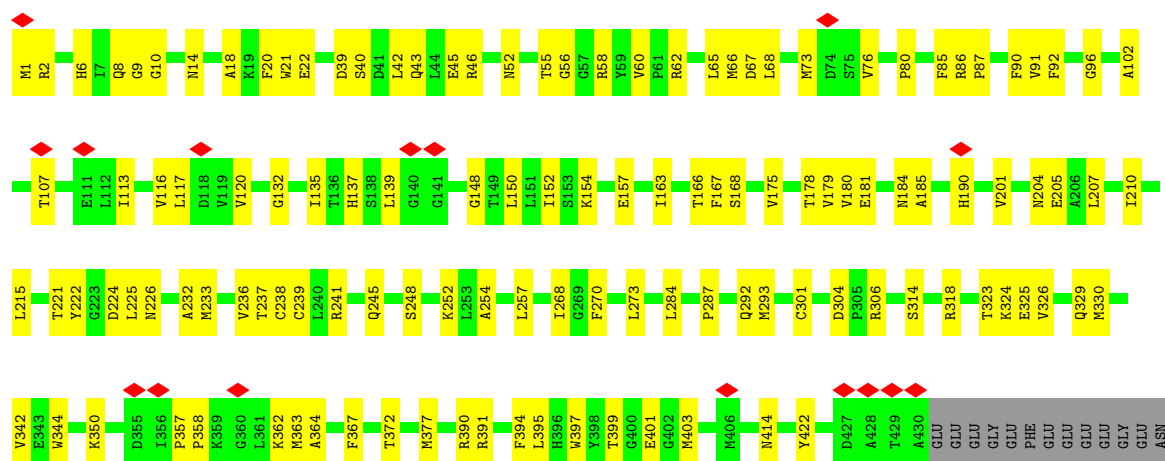


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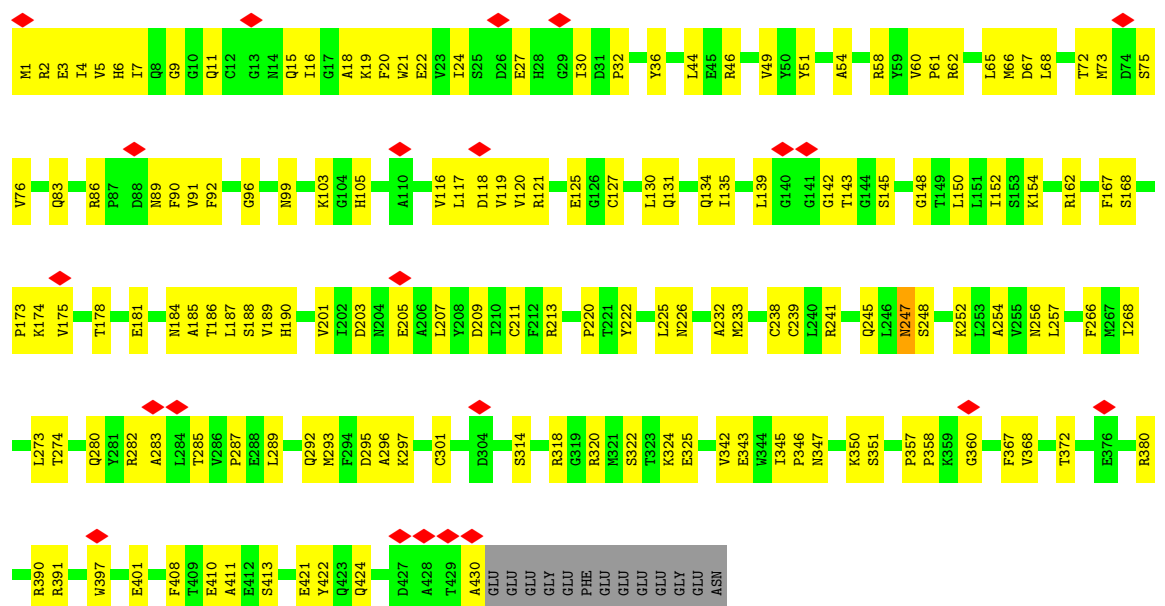


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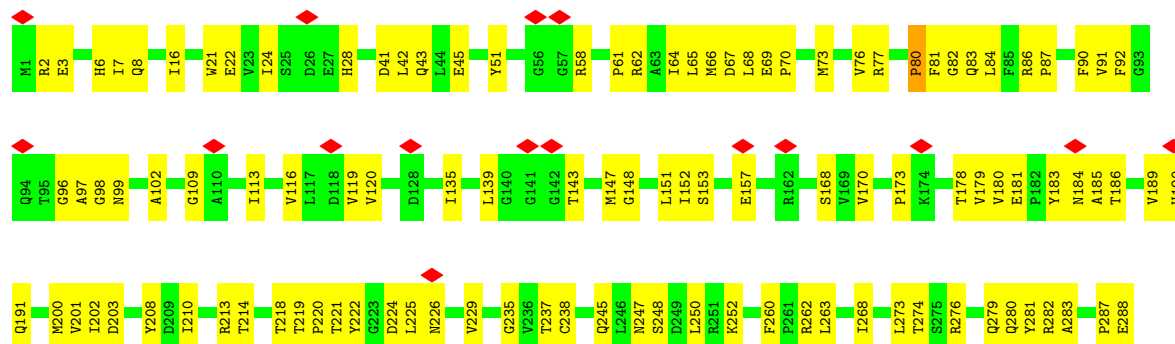


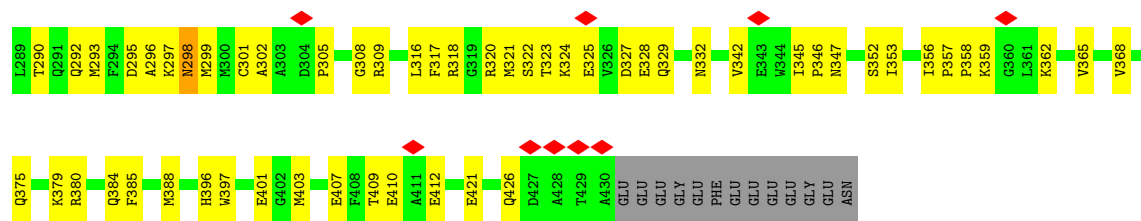


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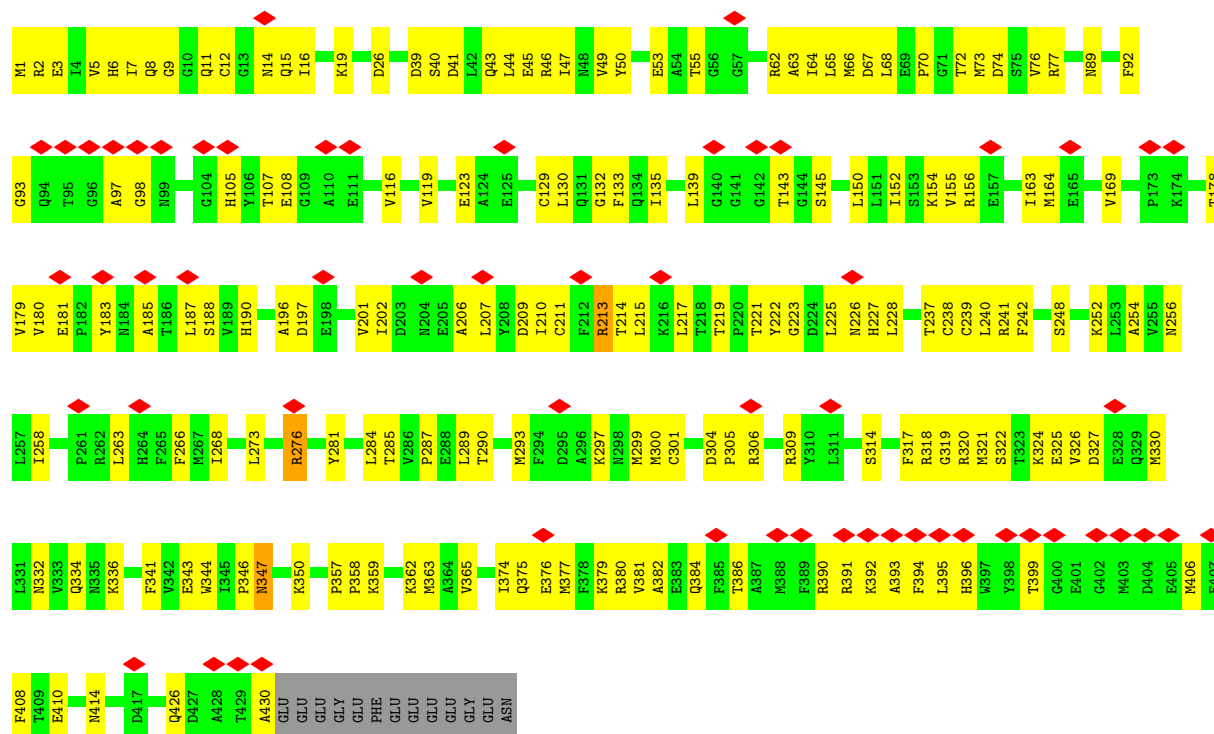


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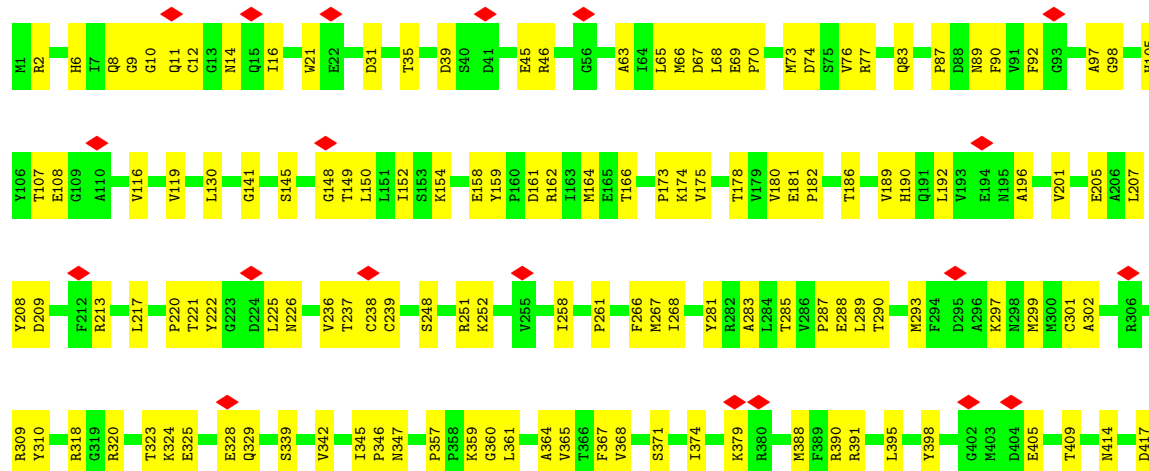


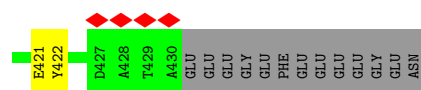


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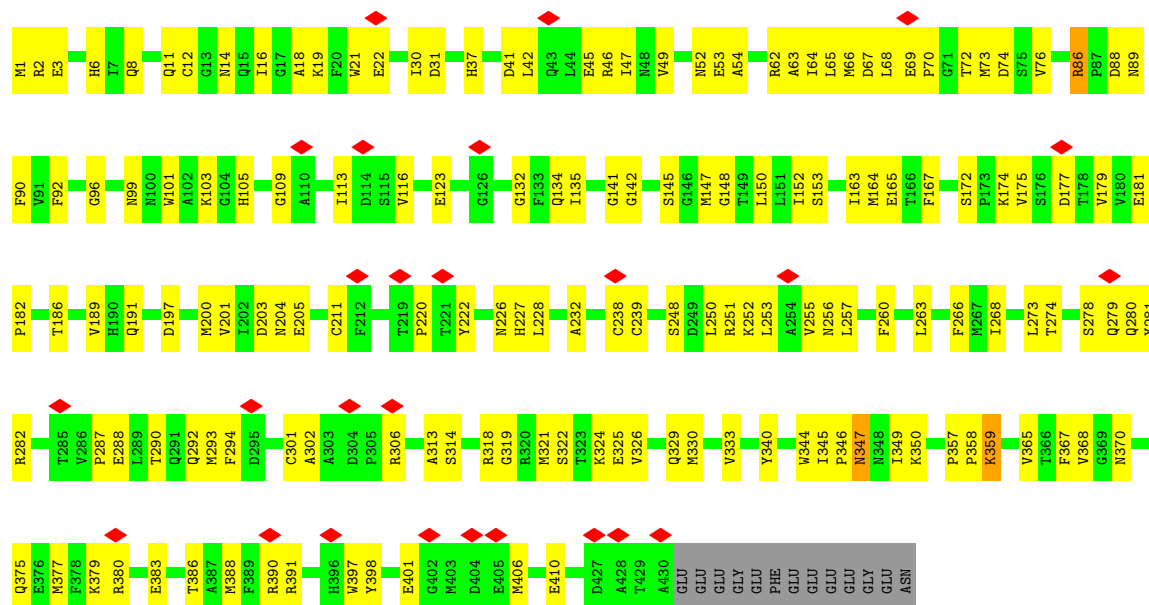


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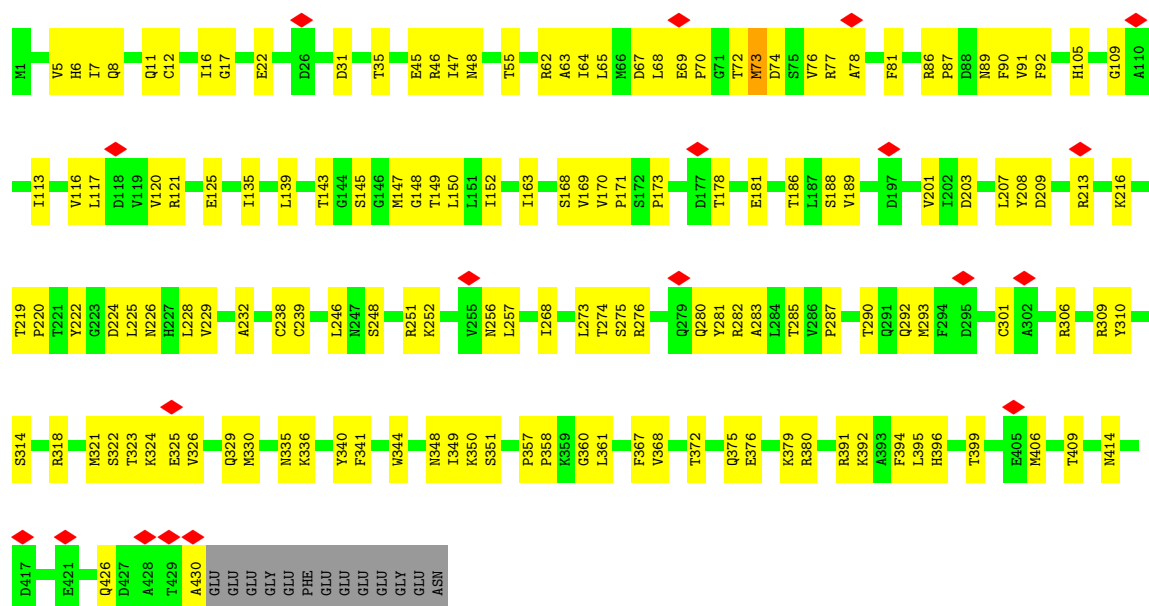




- Molecule 46: Tubulin beta chain

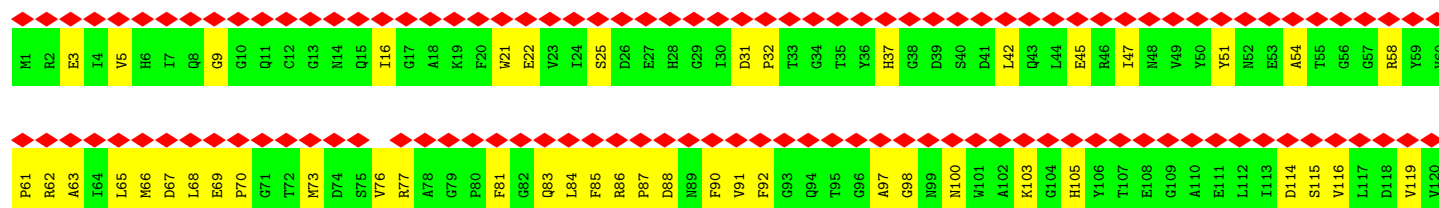


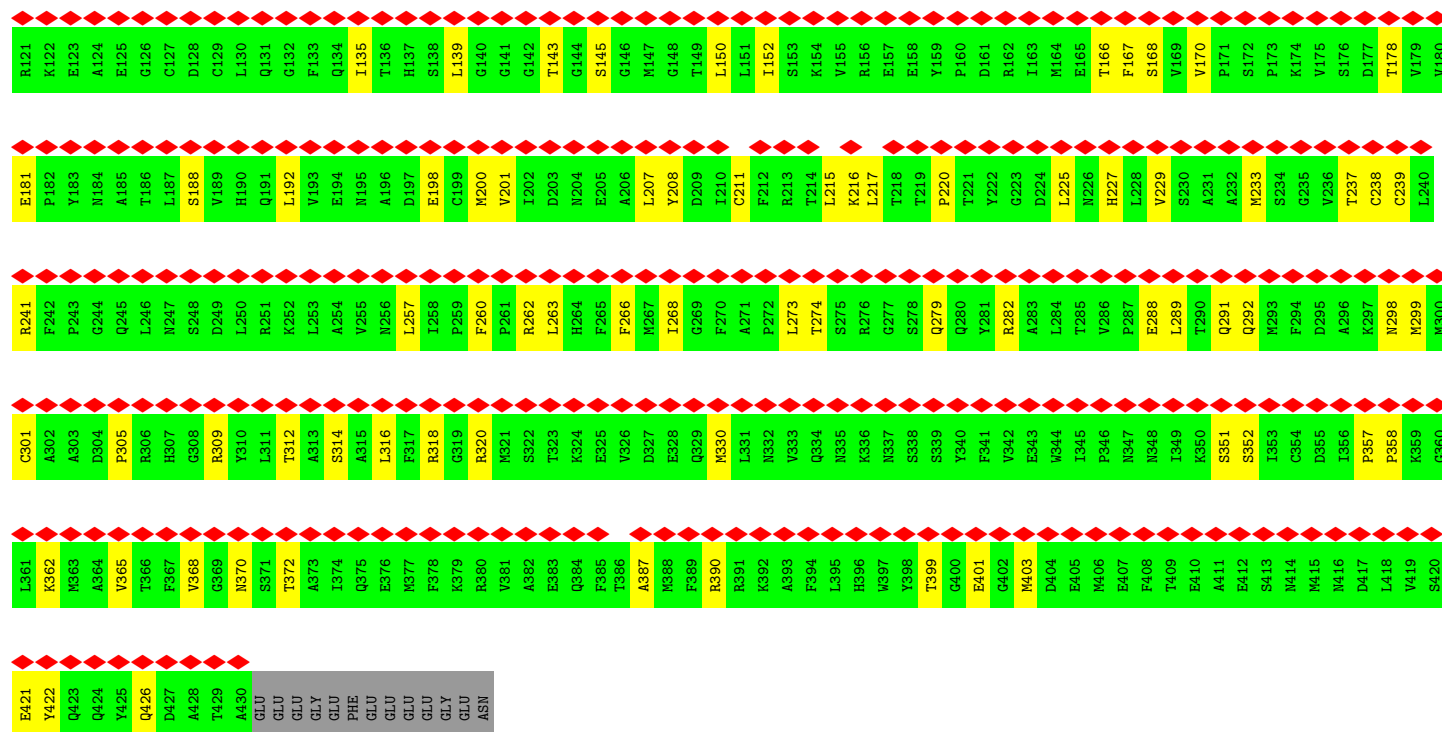
- Molecule 46: Tubulin beta chain



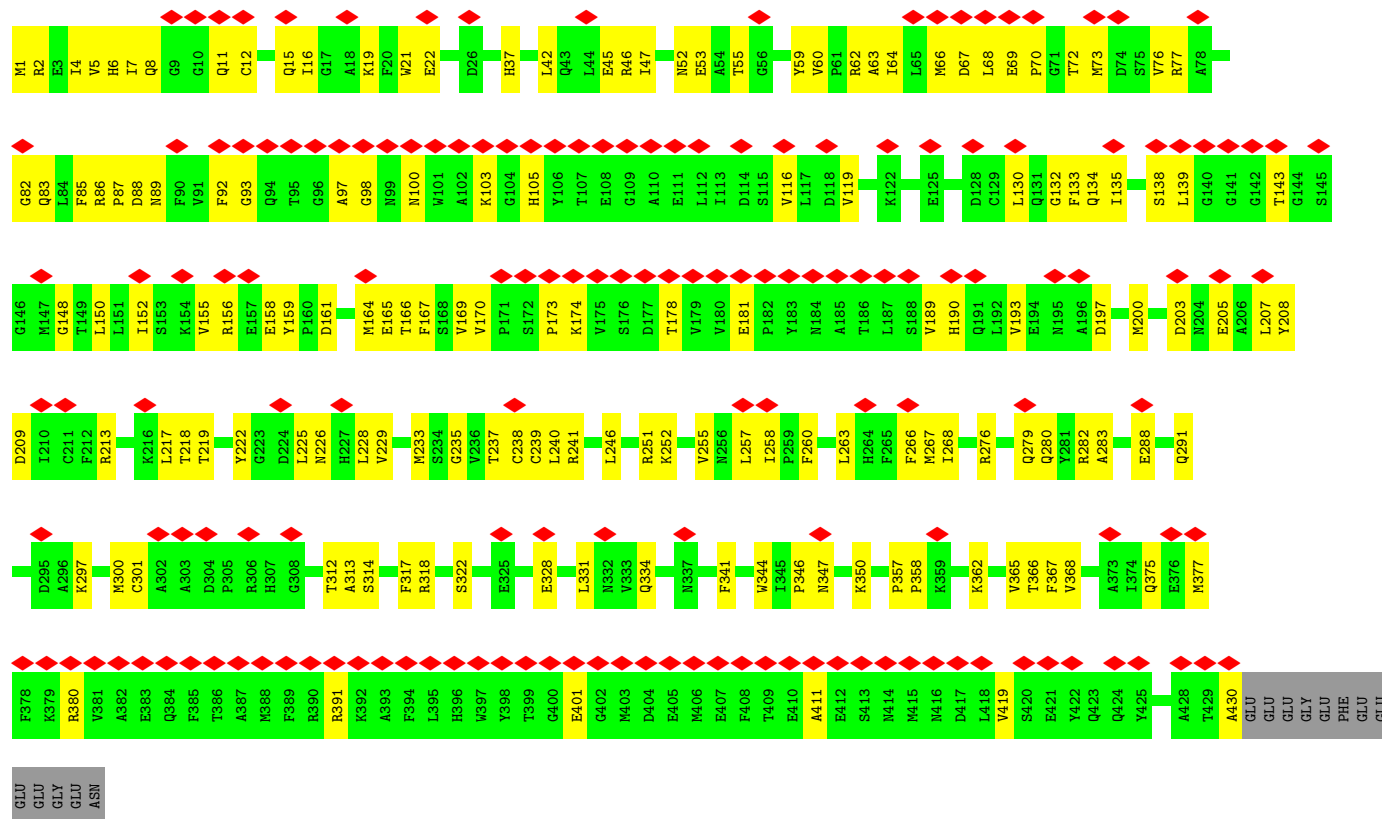
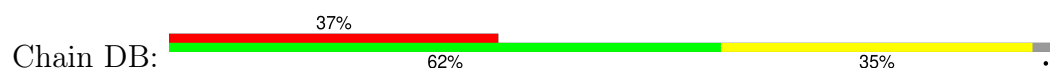
- Molecule 46: Tubulin beta chain





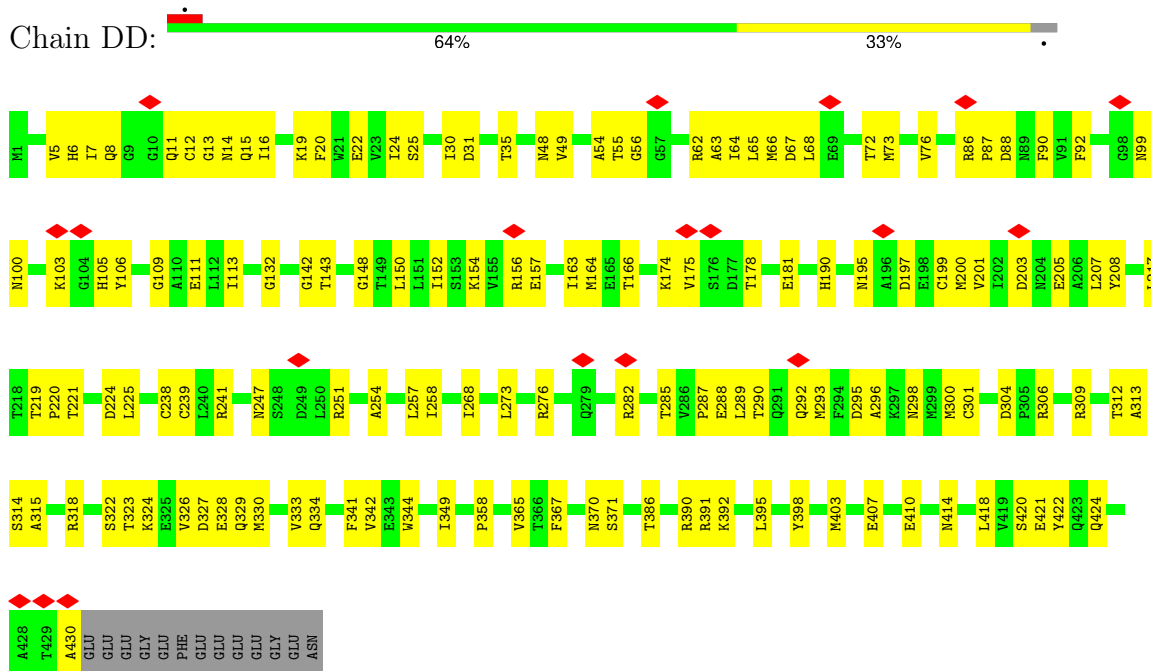


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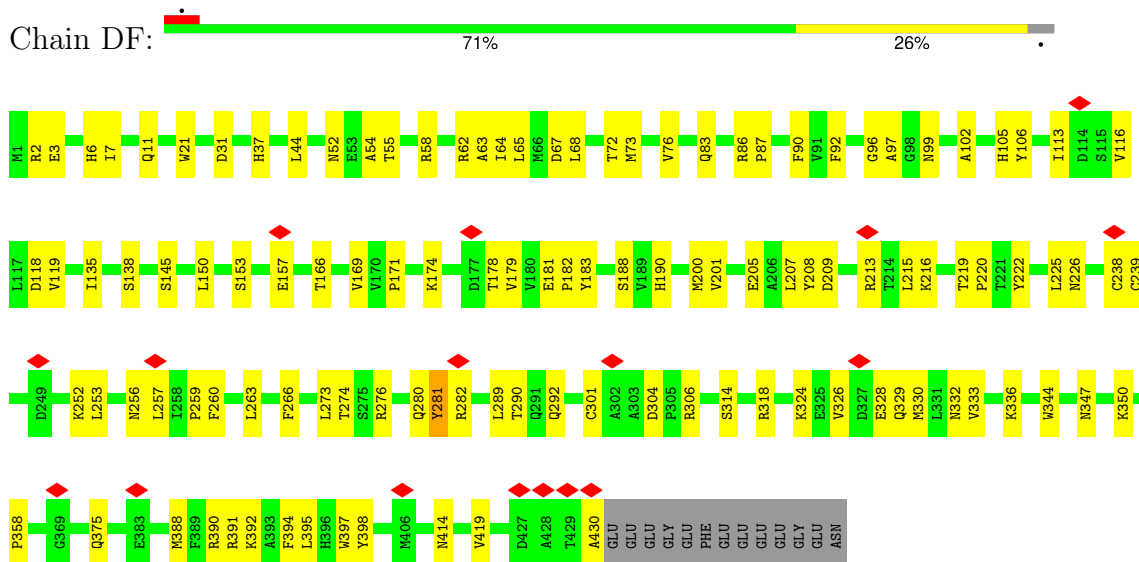
- Molecule 46: Tubulin beta chain

Chain DD:



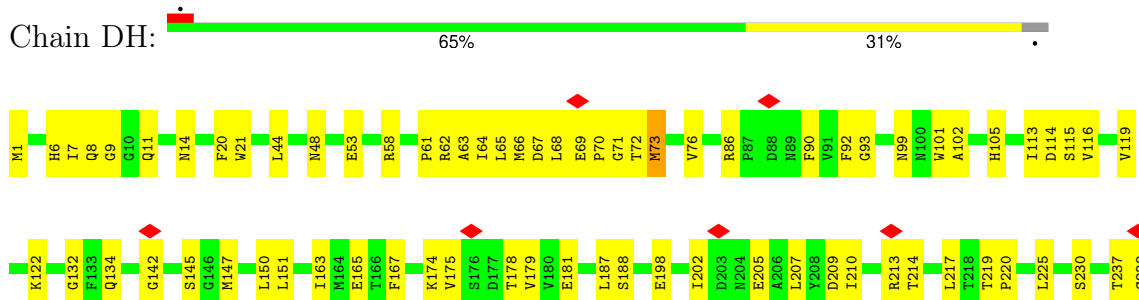
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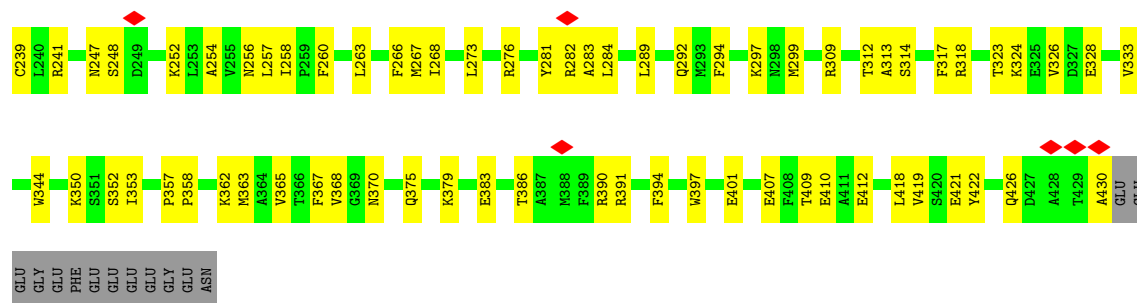
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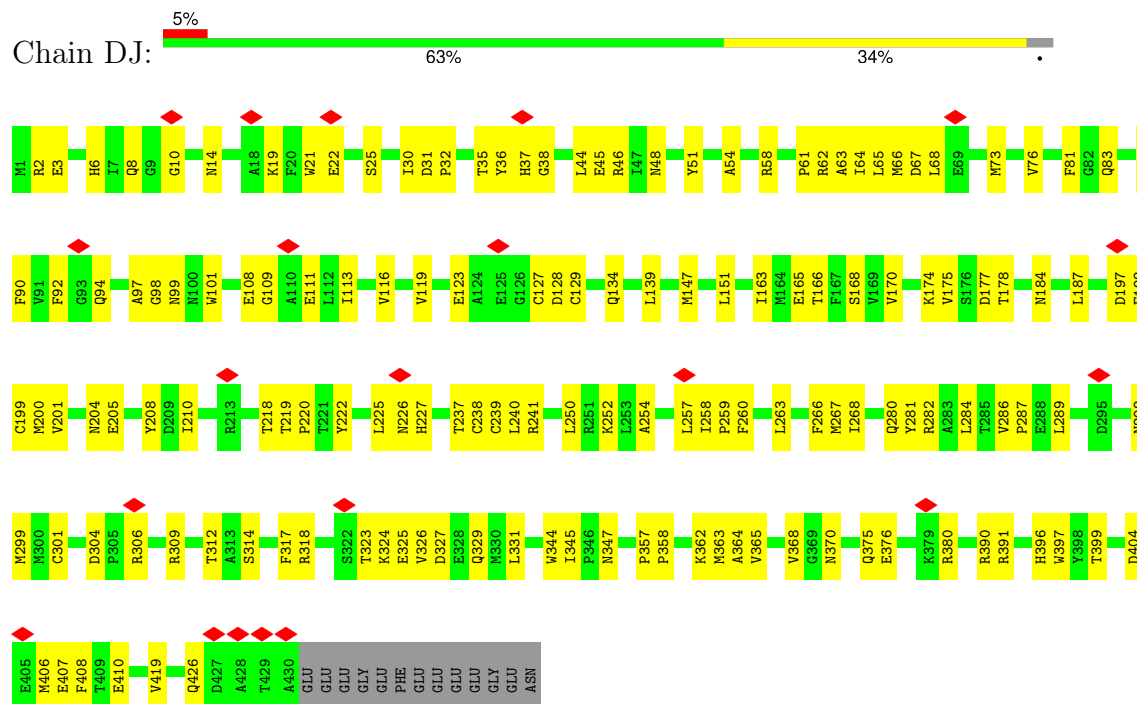
- Molecule 46: Tubulin beta chain

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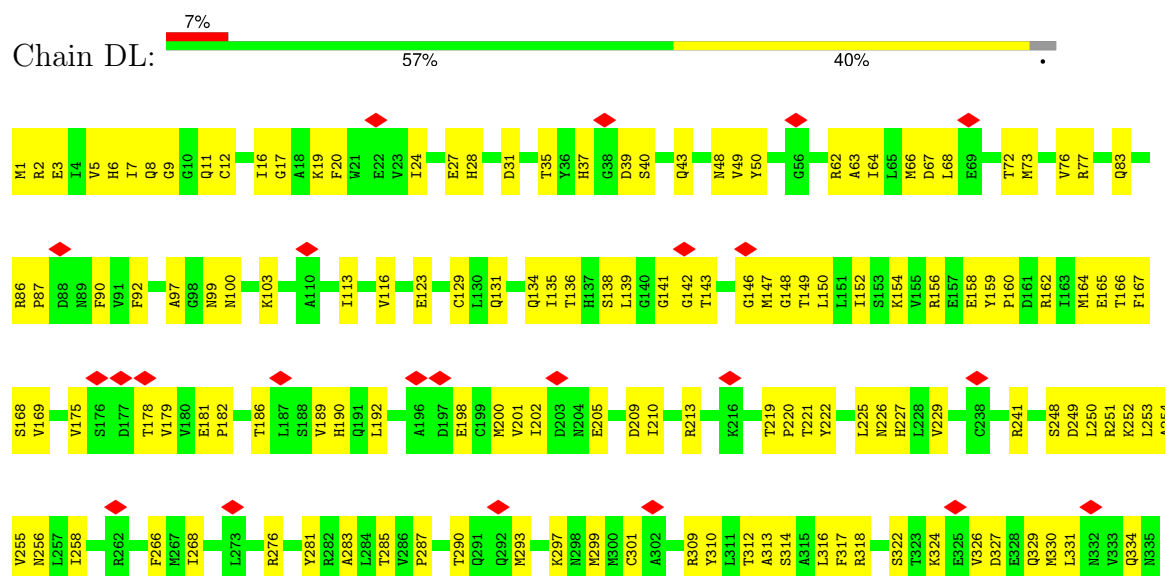


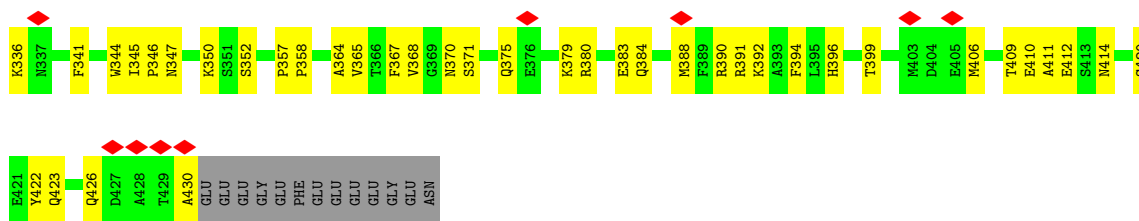


• Molecule 46: Tubulin beta chain

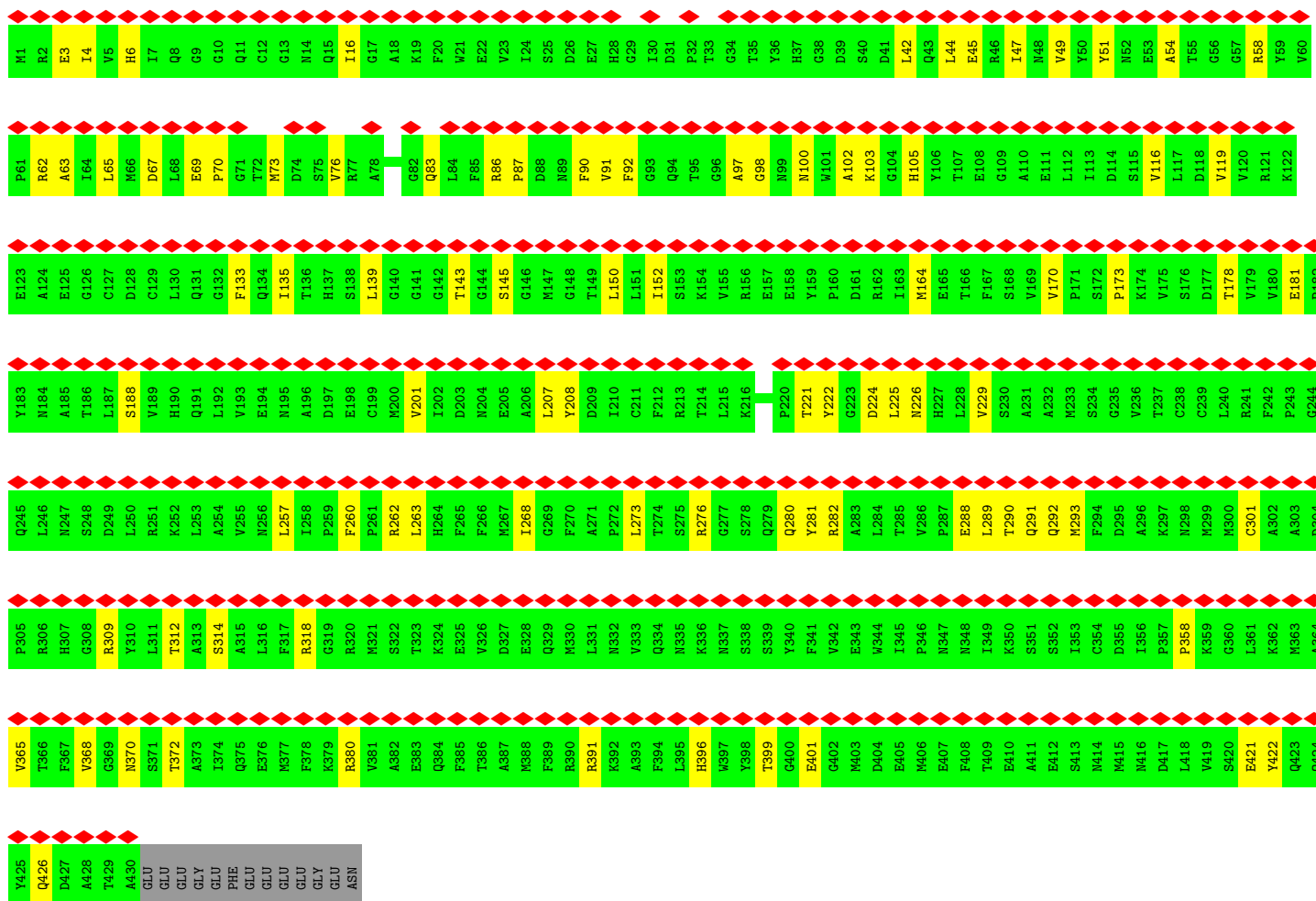
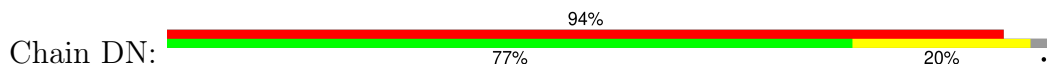


• Molecule 46: Tubulin beta chain

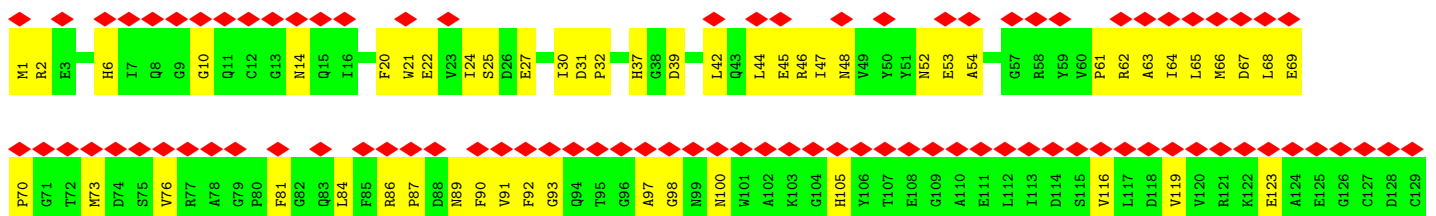


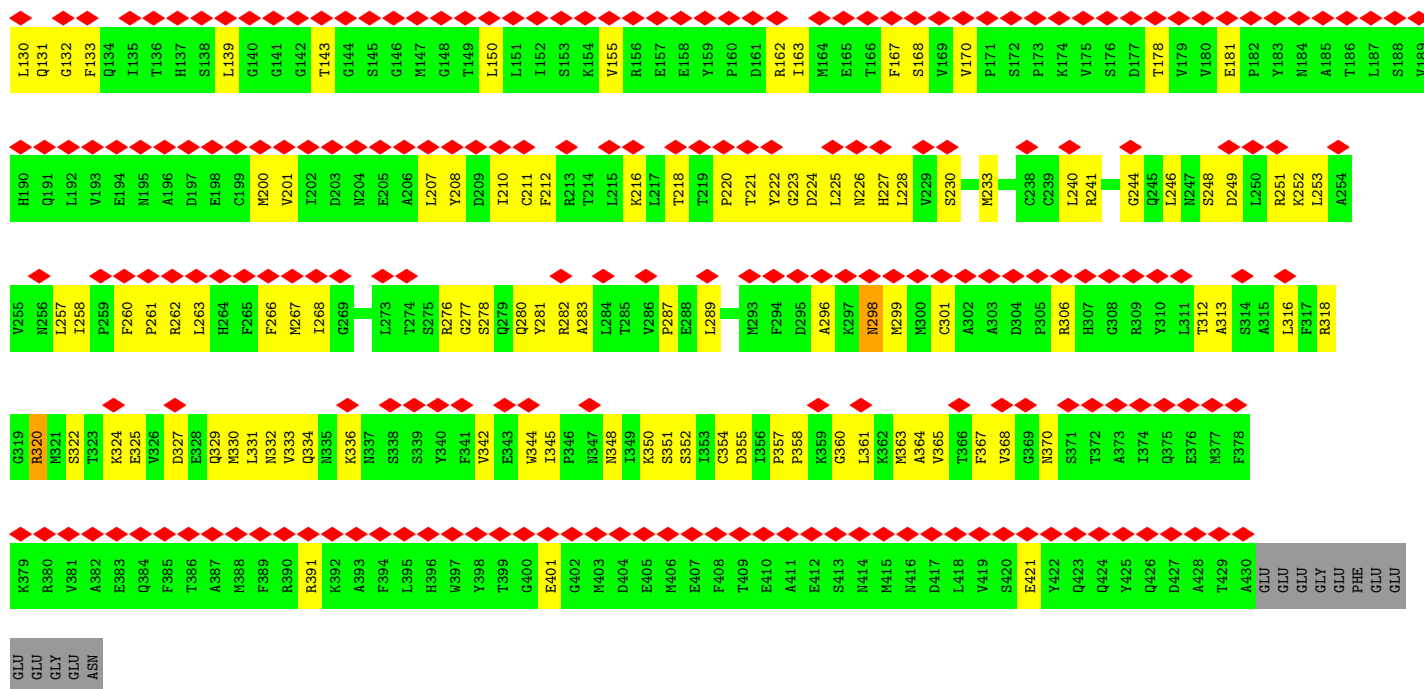


• Molecule 46: Tubulin beta chain

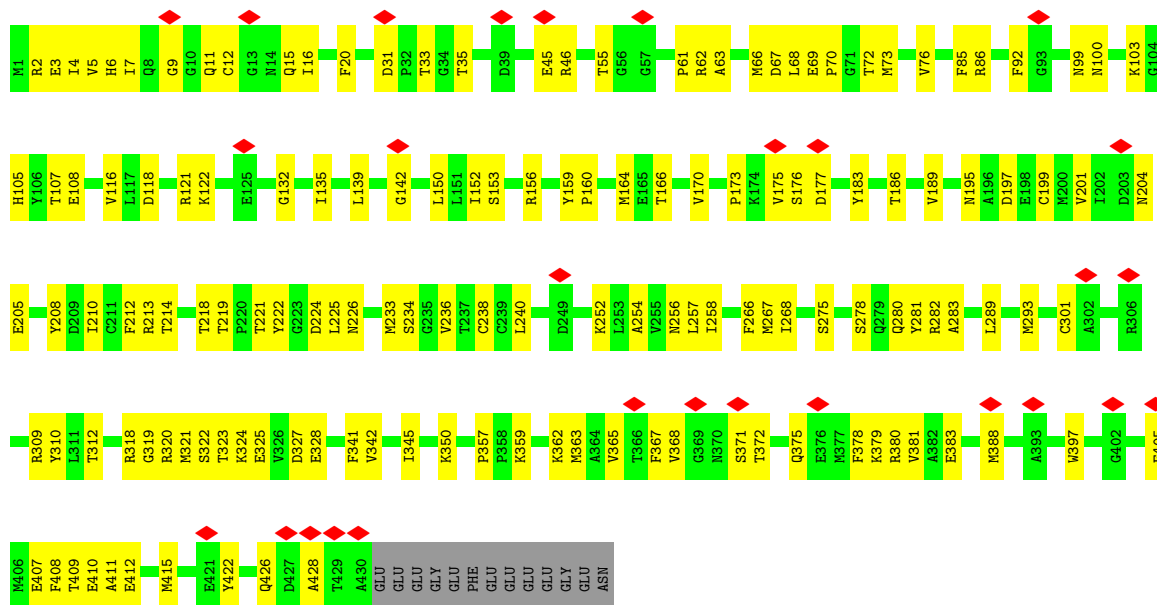


• Molecule 46: Tubulin beta chain



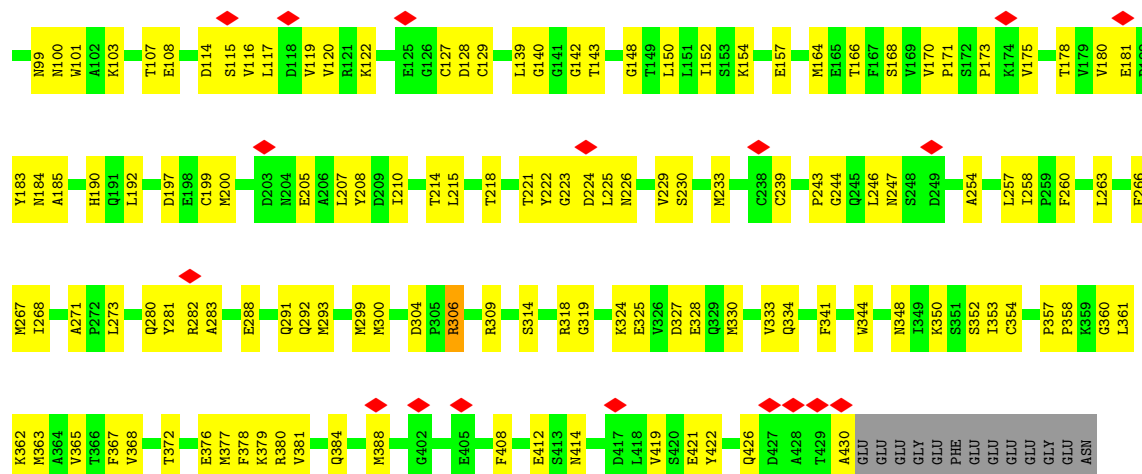


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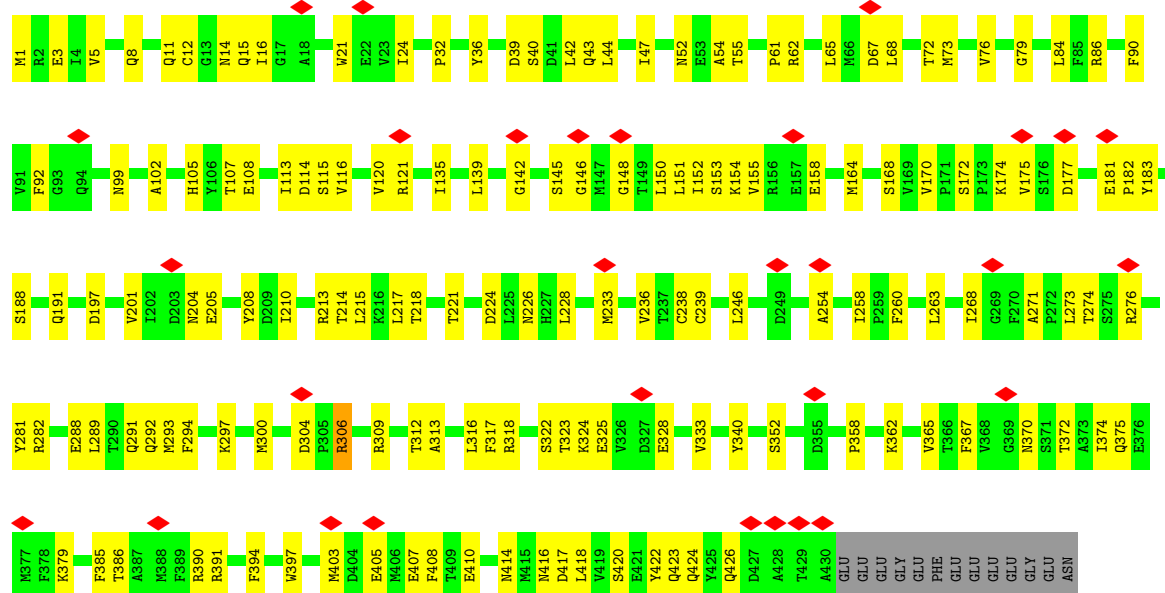


• Molecule 46: Tubulin beta chain

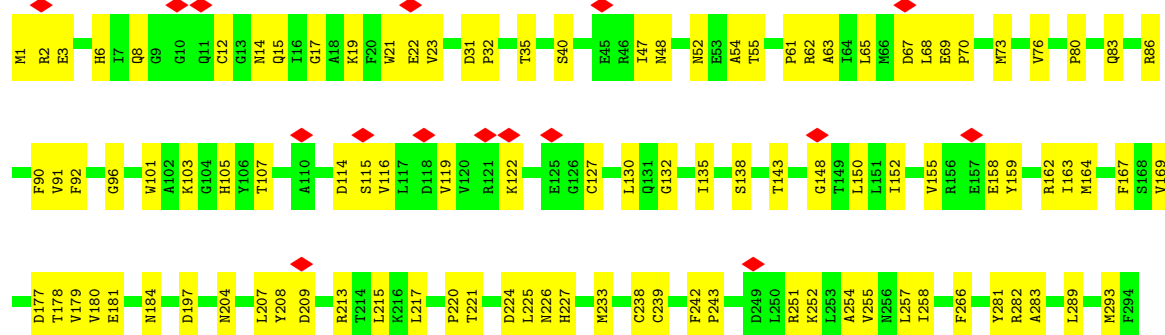


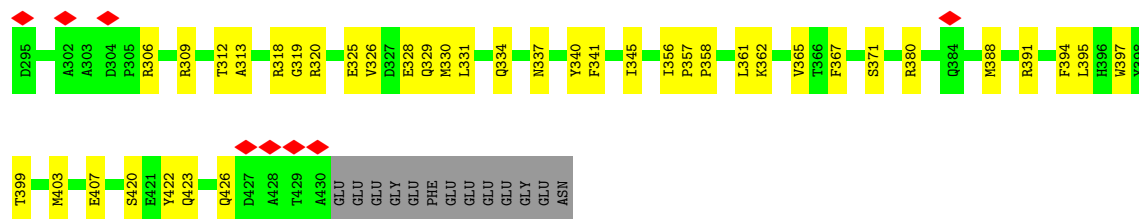


• Molecule 46: Tubulin beta chain

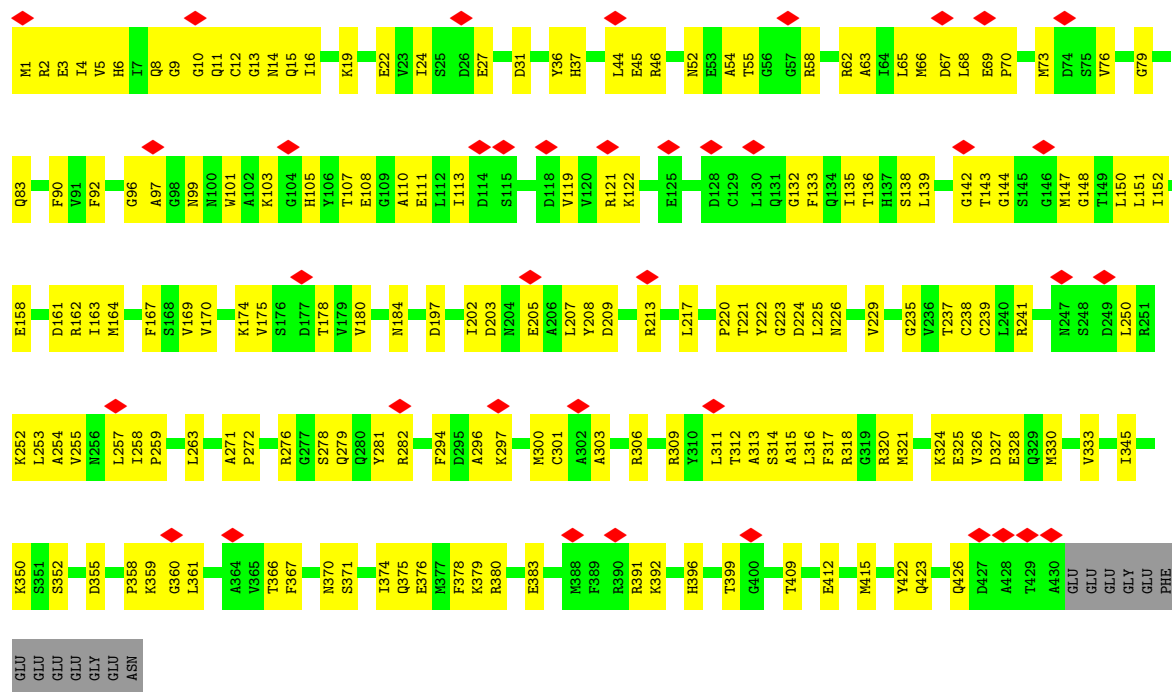


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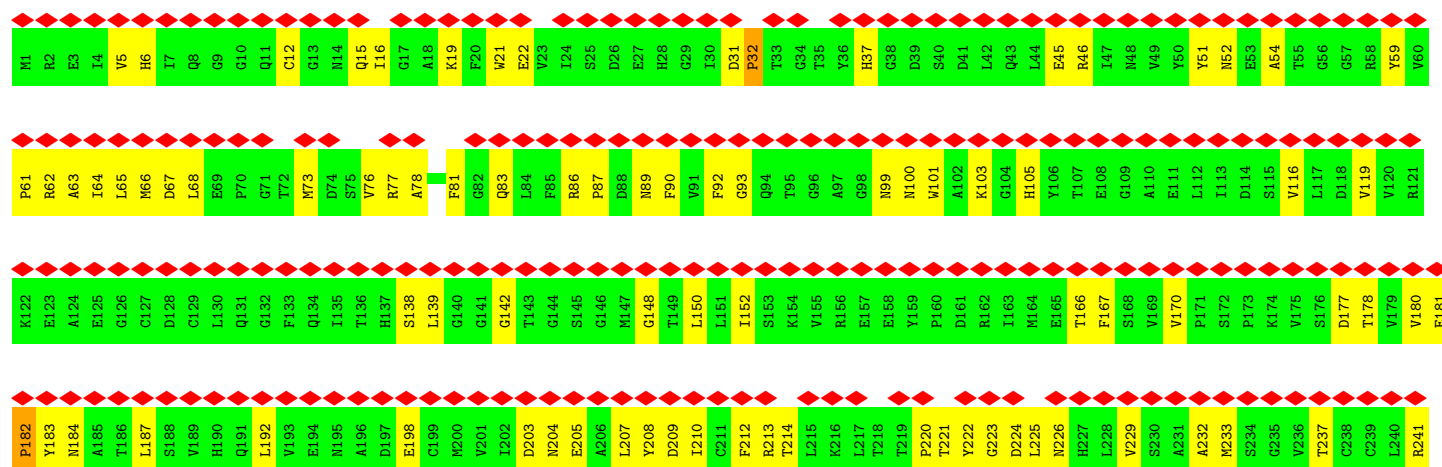




• Molecule 46: Tubulin beta chain

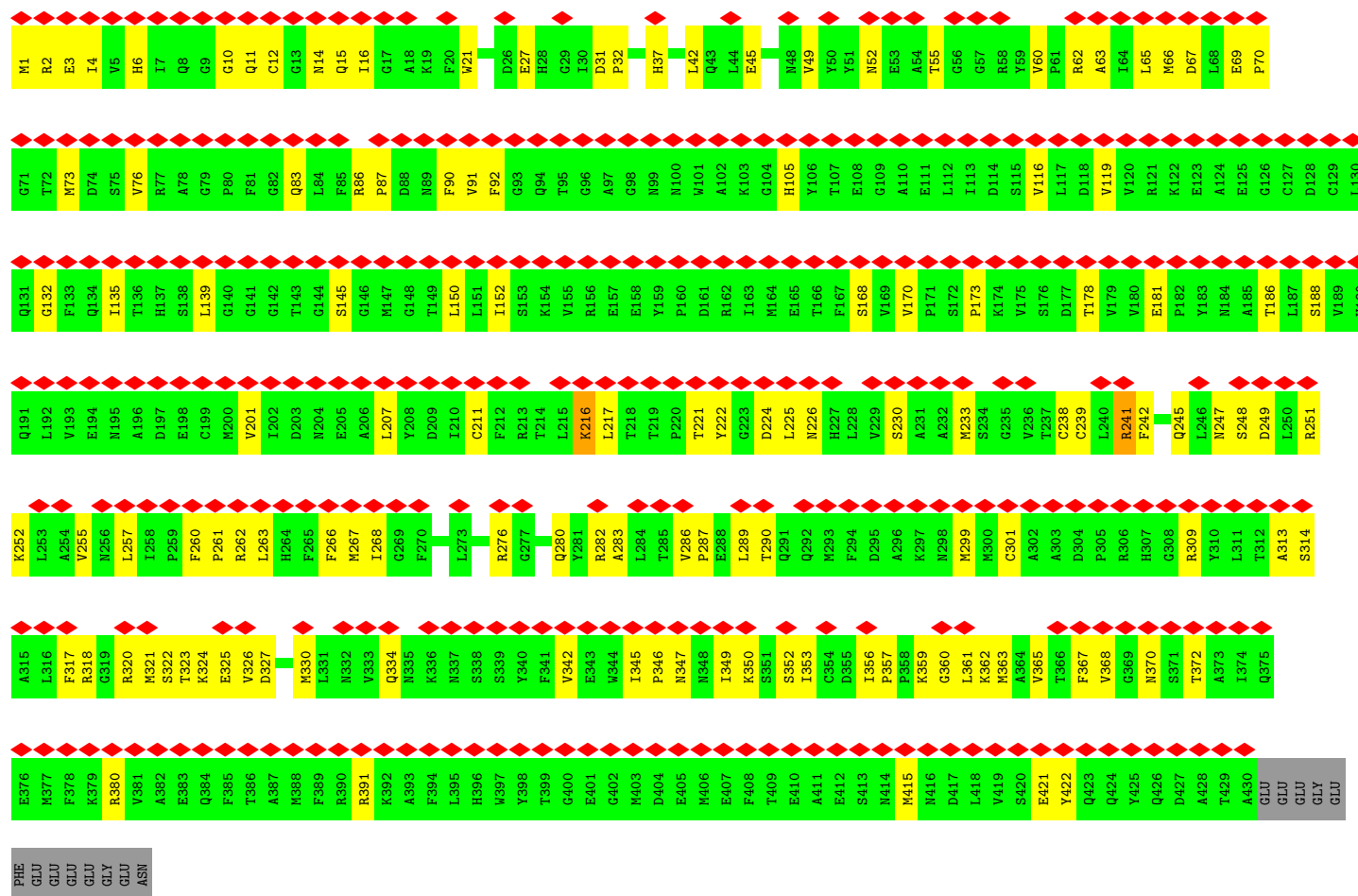
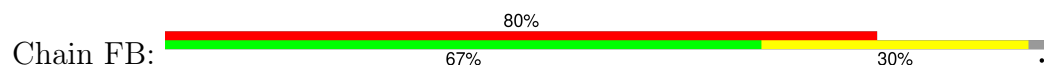


• Molecule 46: Tubulin beta chain



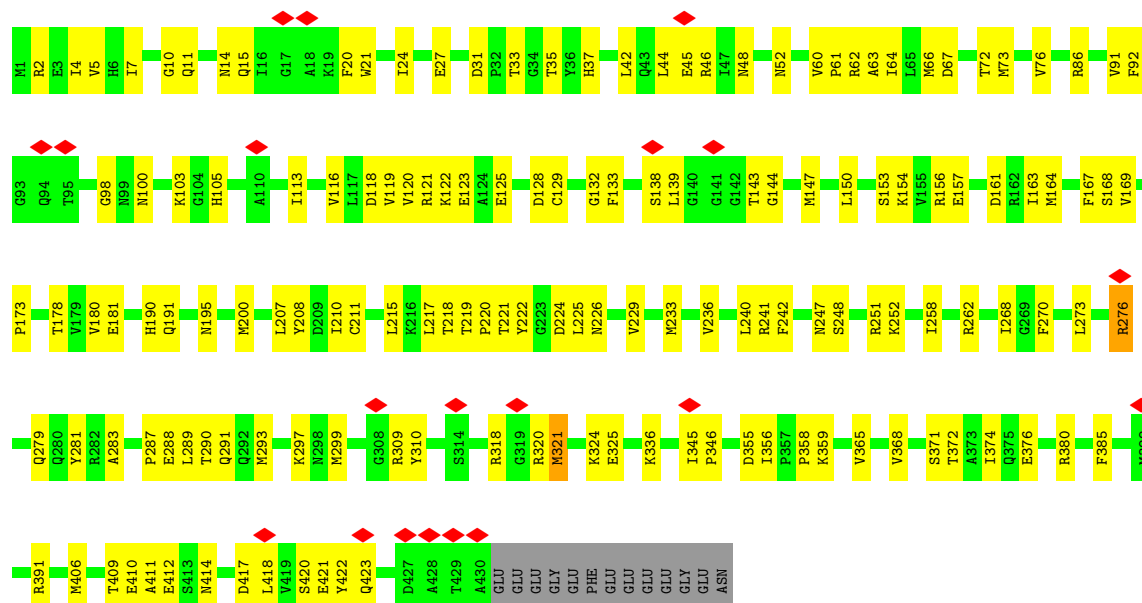


• Molecule 46: Tubulin beta chain

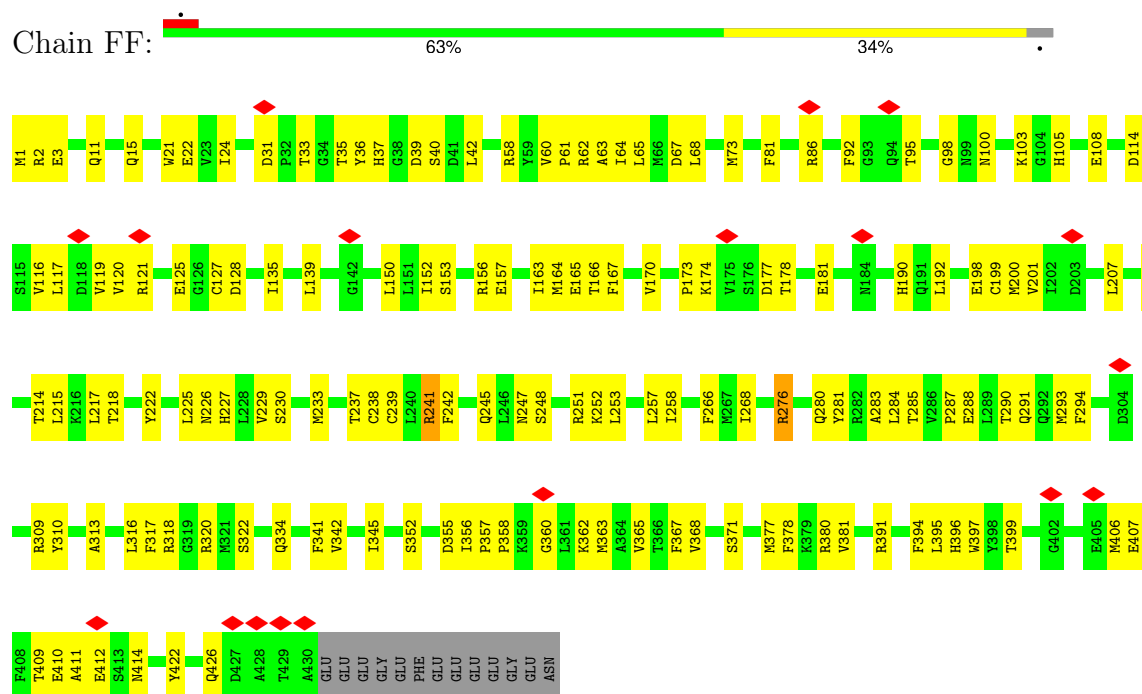


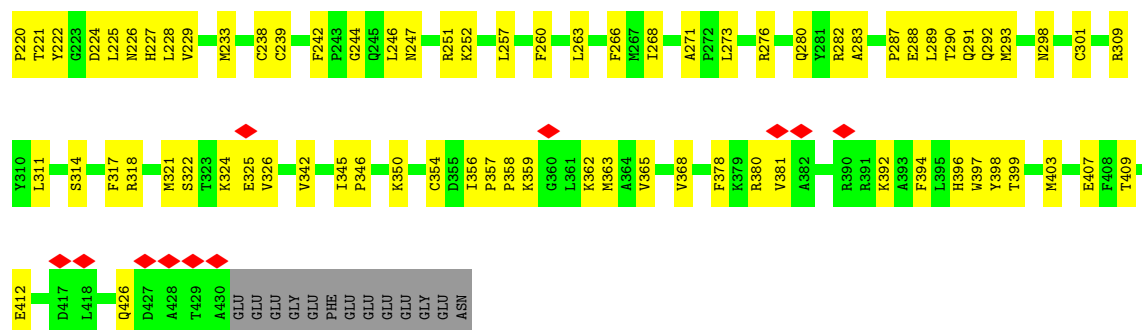
• Molecule 46: Tubulin beta chain





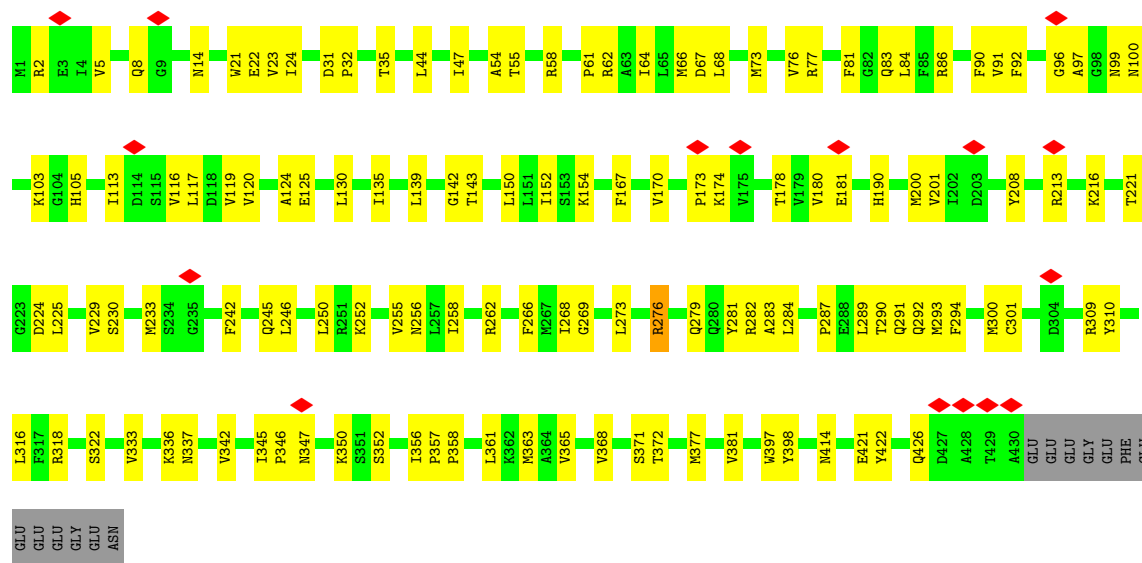
• Molecule 46: Tubulin beta chain





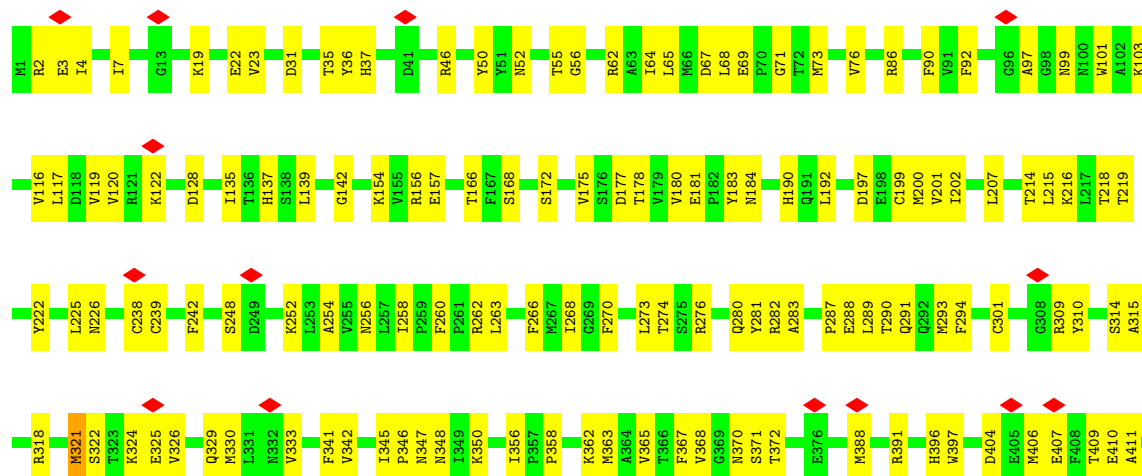
• Molecule 46: Tubulin beta chain

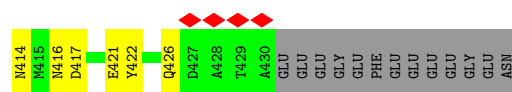
Chain FJ: 67% 30%



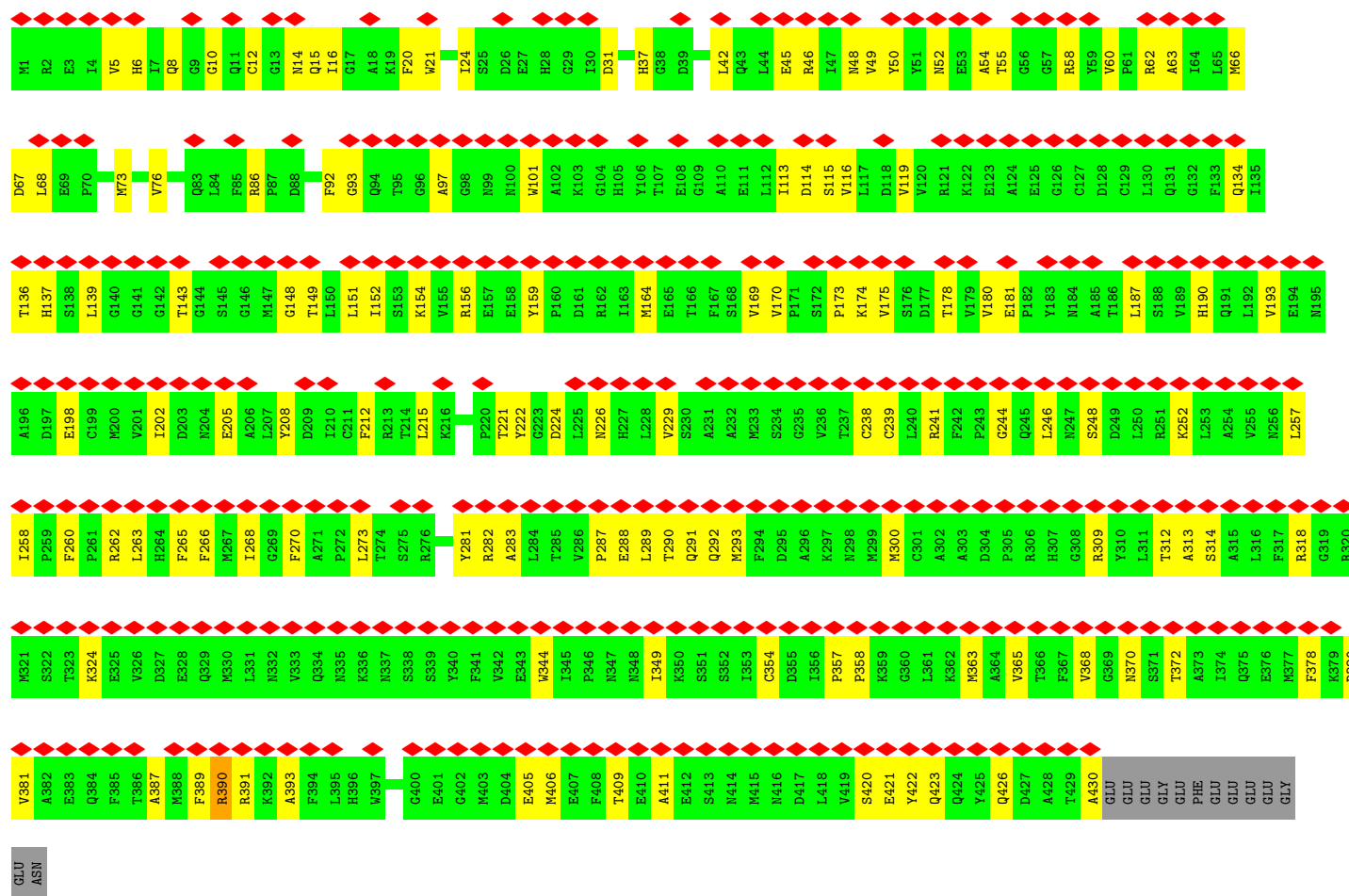
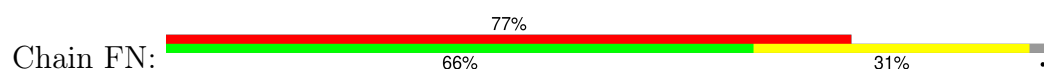
• Molecule 46: Tubulin beta chain

Chain FL: 64% 33%

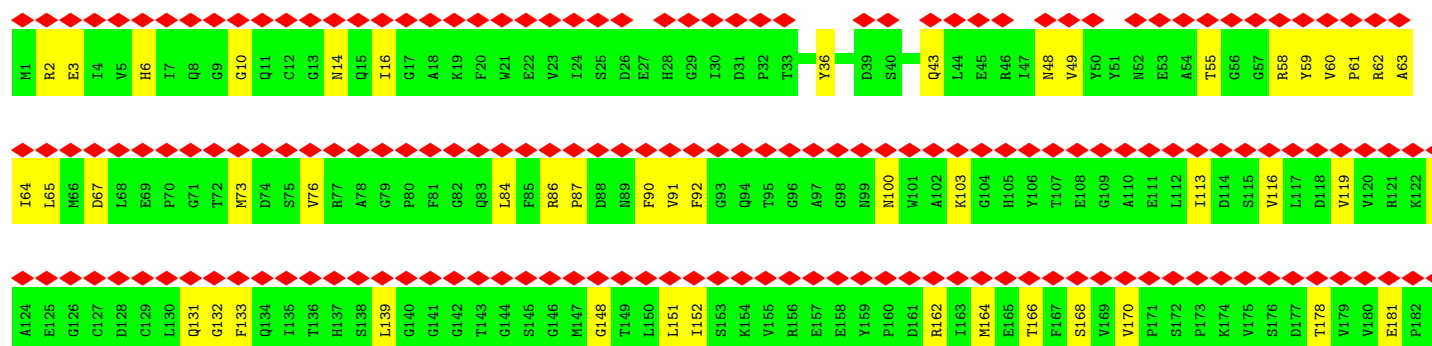
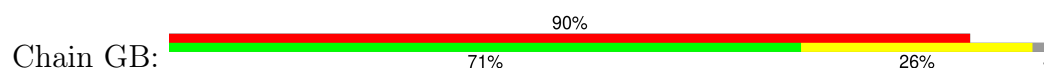


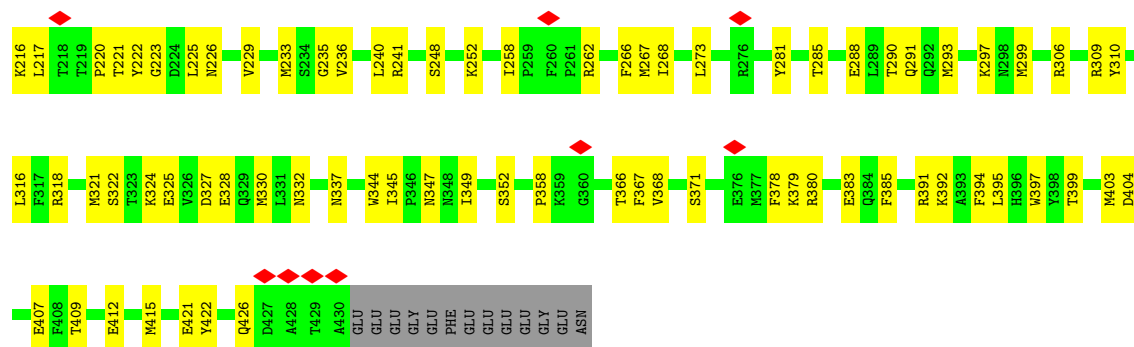


• Molecule 46: Tubulin beta chain



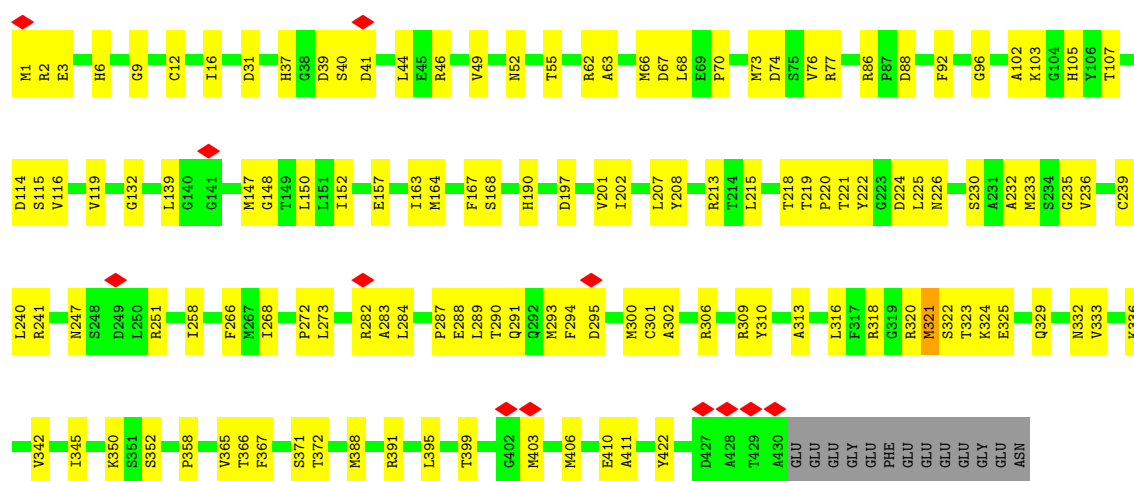
• Molecule 46: Tubulin beta chain





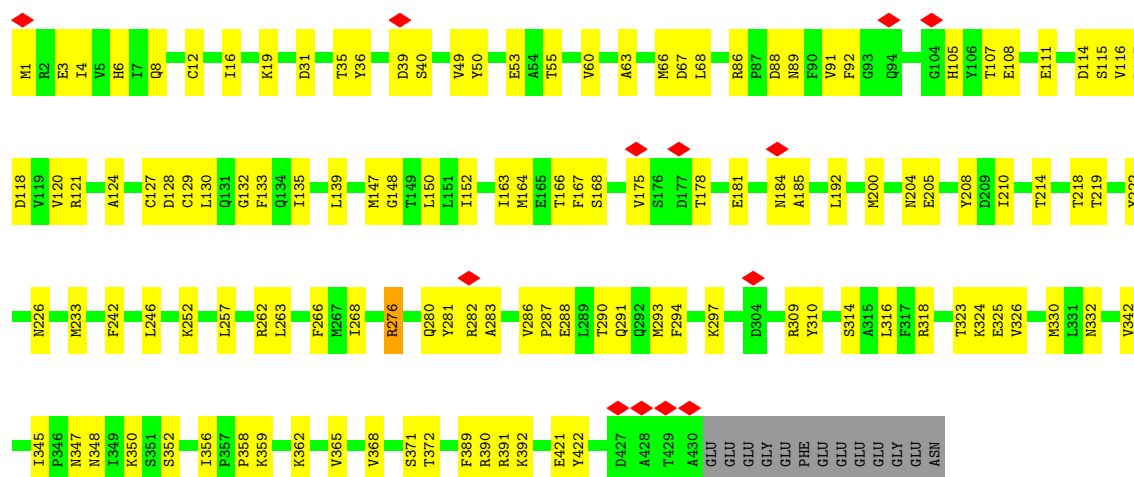
• Molecule 46: Tubulin beta chain

Chain GH: 68% 29% .



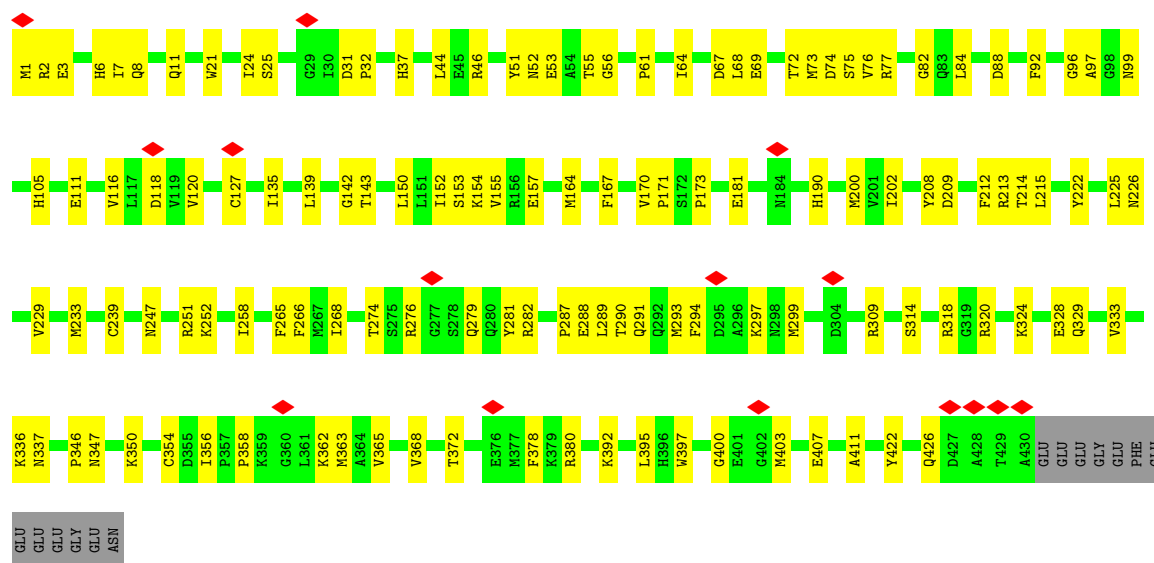
• Molecule 46: Tubulin beta chain

Chain GJ: 69% 28% .

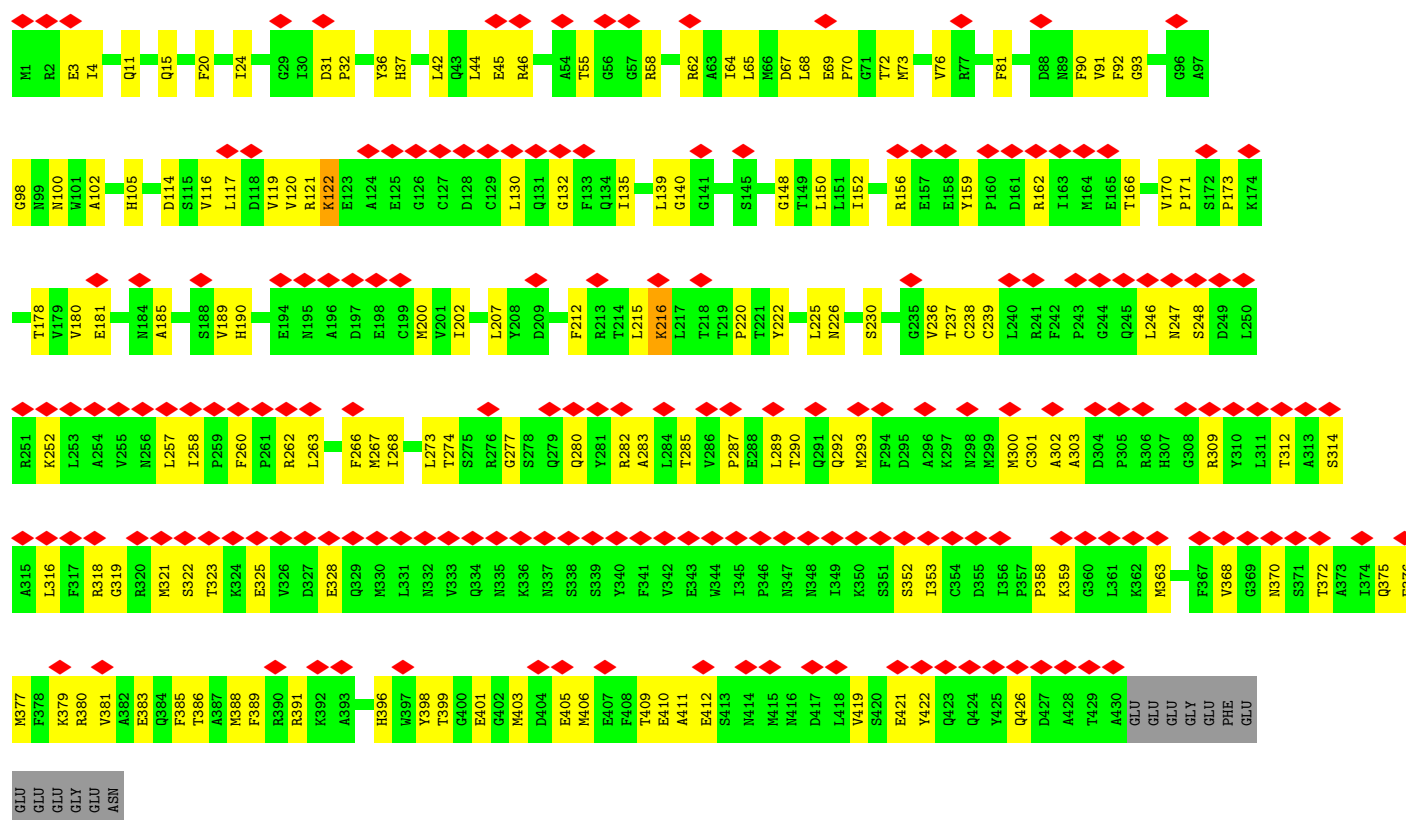
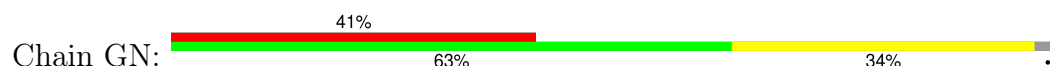


• Molecule 46: Tubulin beta chain

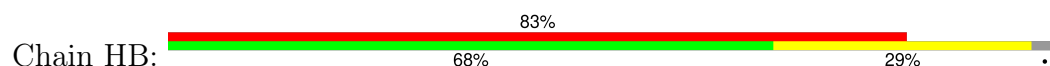
Chain GL: 68% 29% .



• Molecule 46: Tubulin beta chain

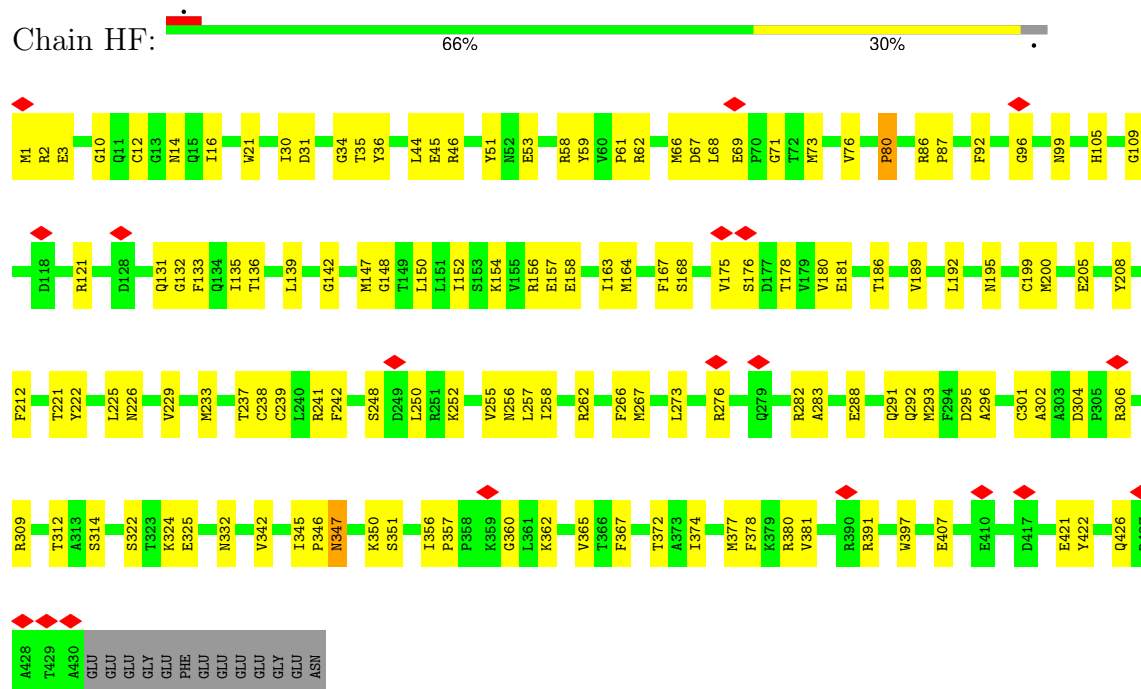


• Molecule 46: Tubulin beta chain



- Molecule 46: Tubulin beta chain

Chain HF:



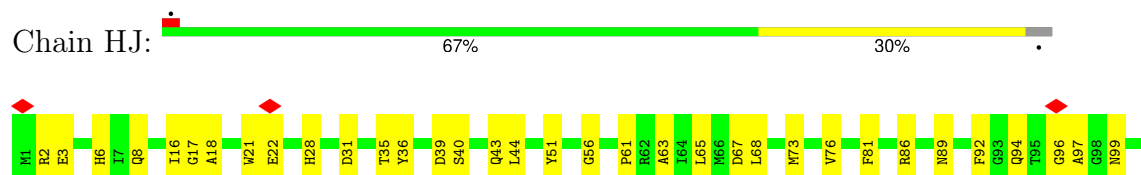
- Molecule 46: Tubulin beta chain

Chain HH:



- Molecule 46: Tubulin beta chain

Chain HJ:



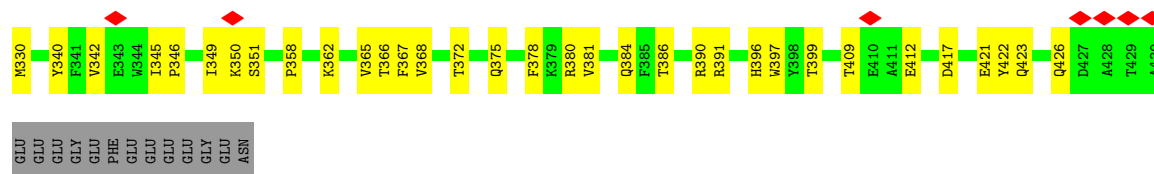


• Molecule 46: Tubulin beta chain

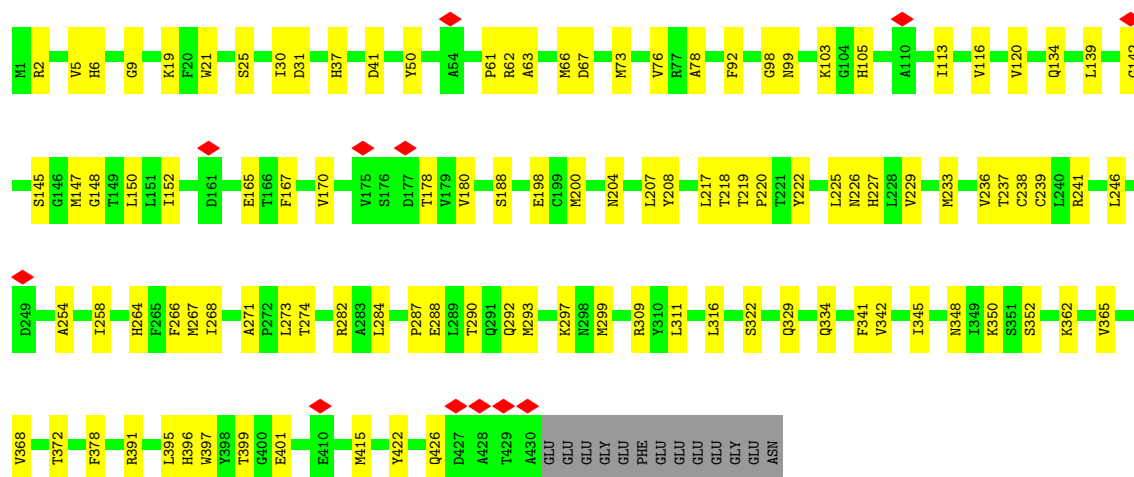


• Molecule 46: Tubulin beta chain

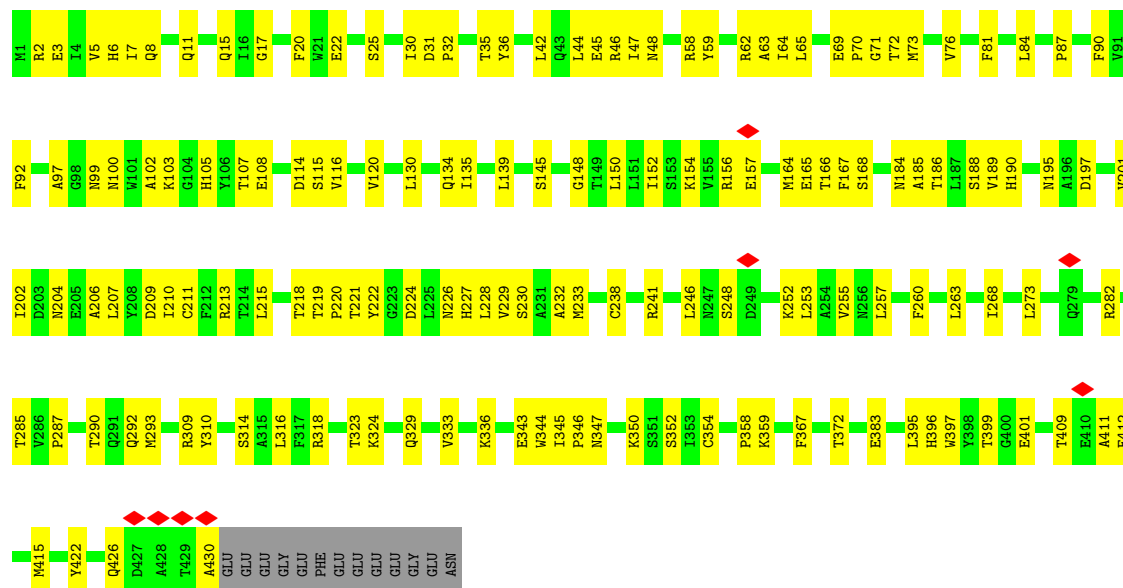




• Molecule 46: Tubulin beta chain

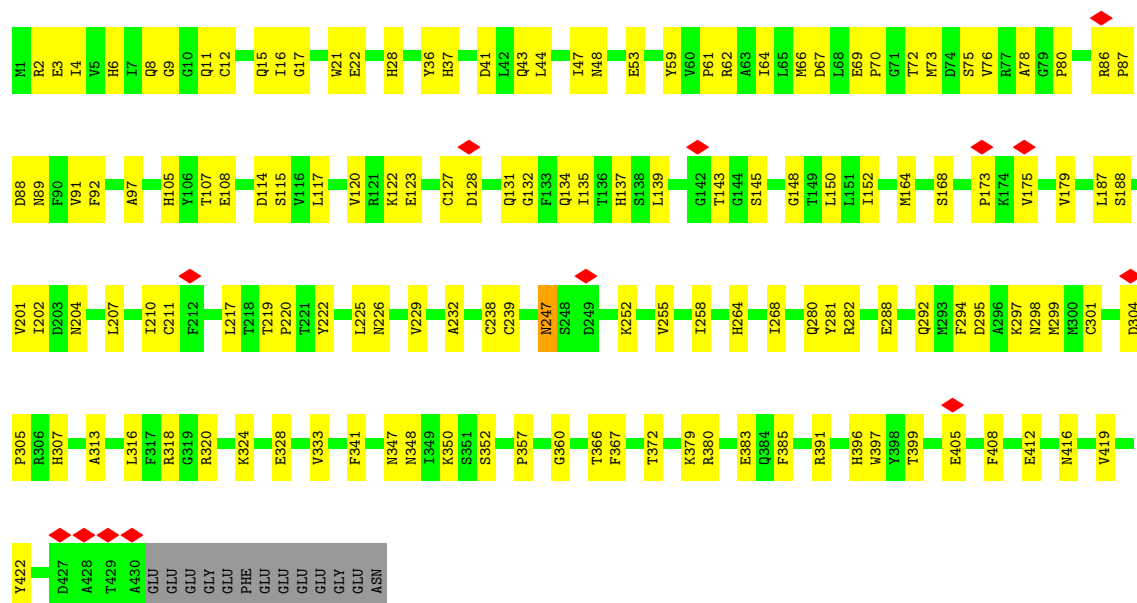


• Molecule 46: Tubulin beta chain



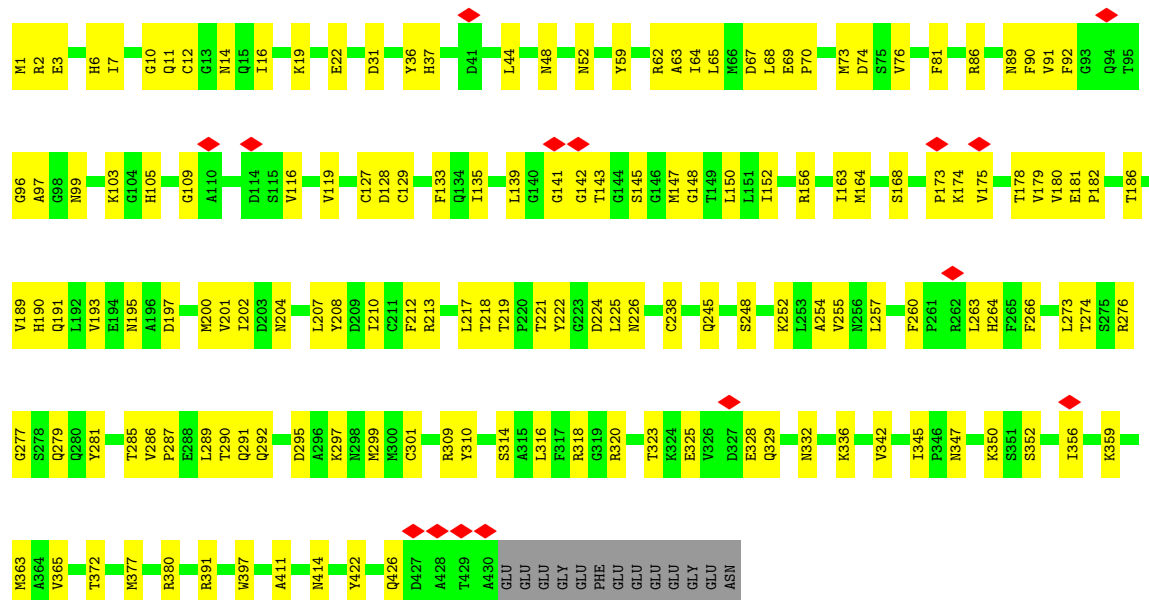
• Molecule 46: Tubulin beta chain





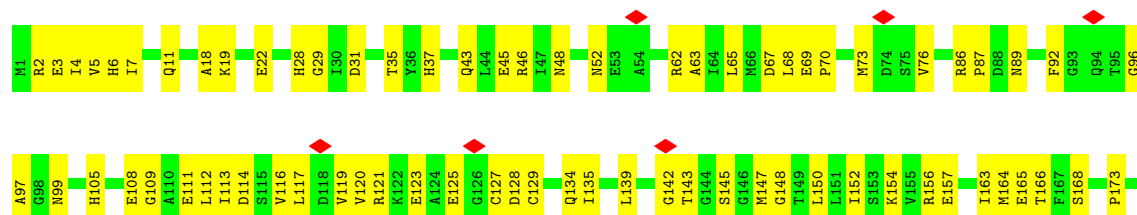
• Molecule 46: Tubulin beta chain

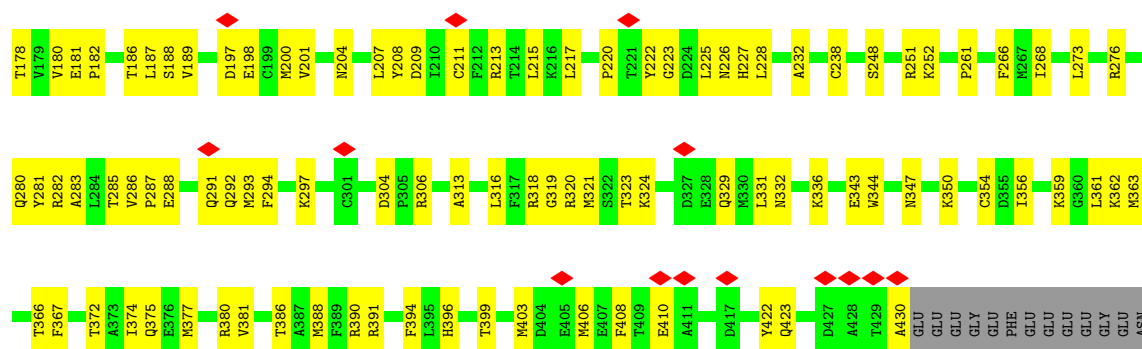
Chain IL: 63% 34%



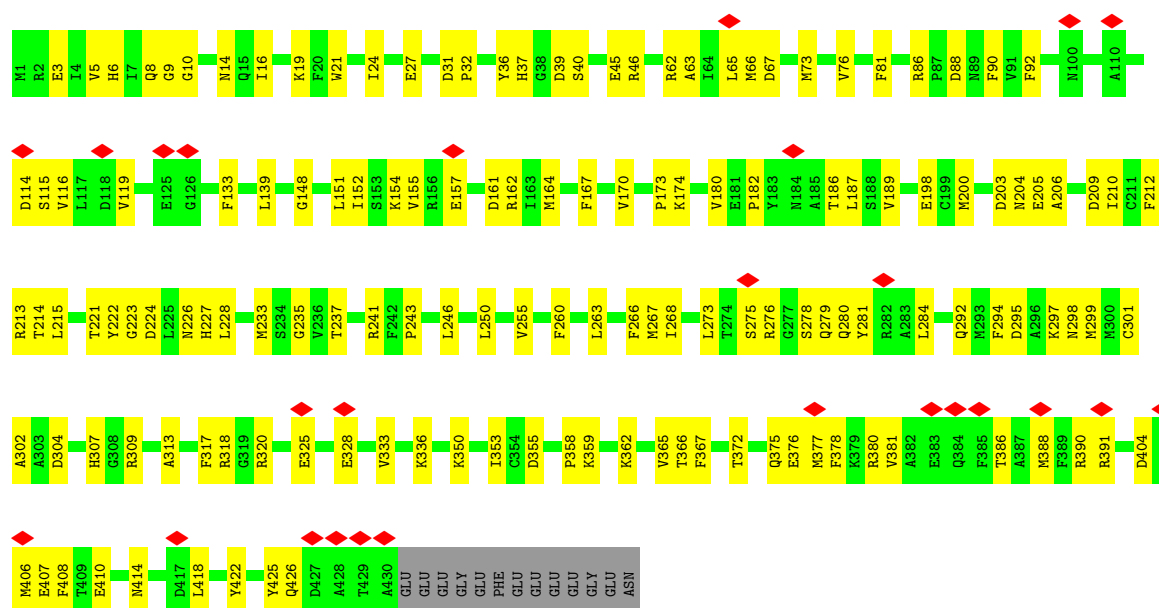
• Molecule 46: Tubulin beta chain

Chain IN: 5% 59% 38%

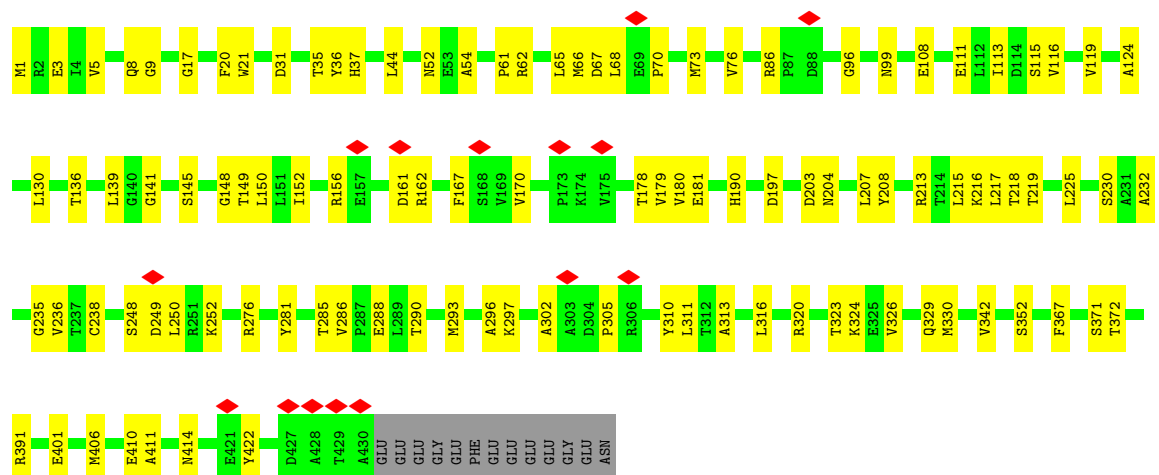
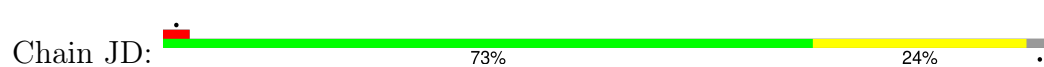




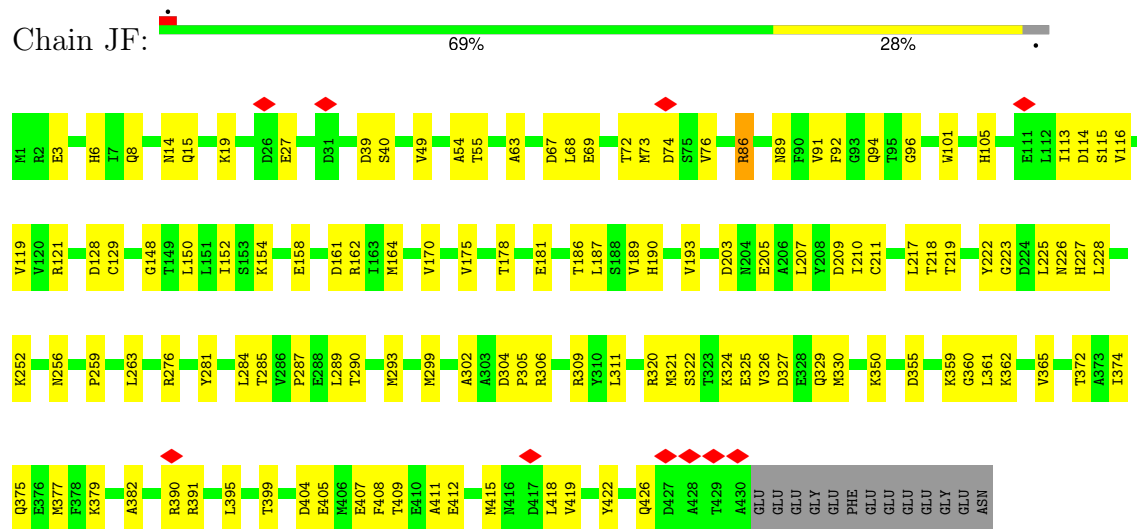
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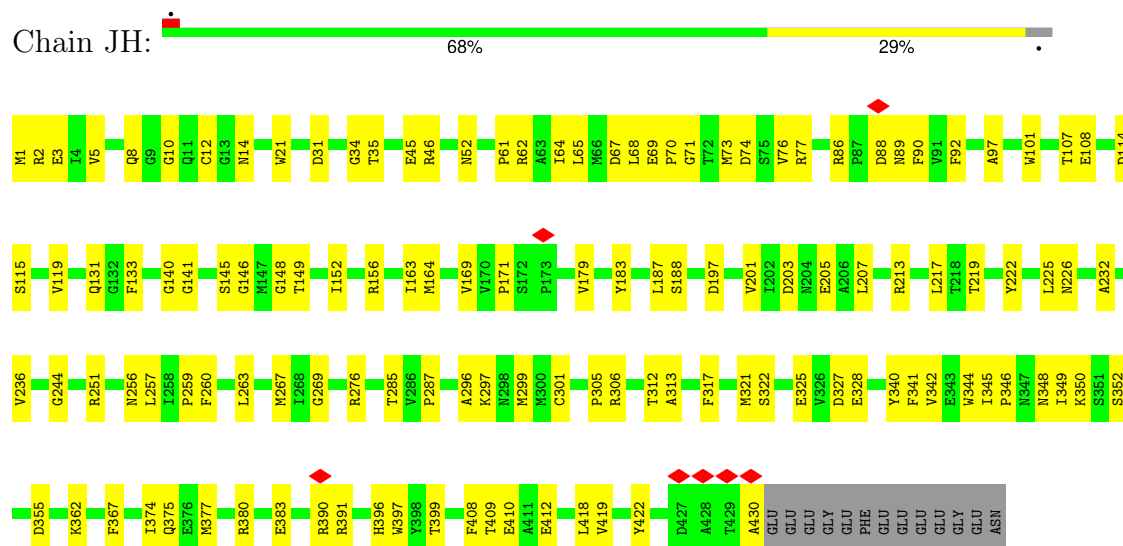
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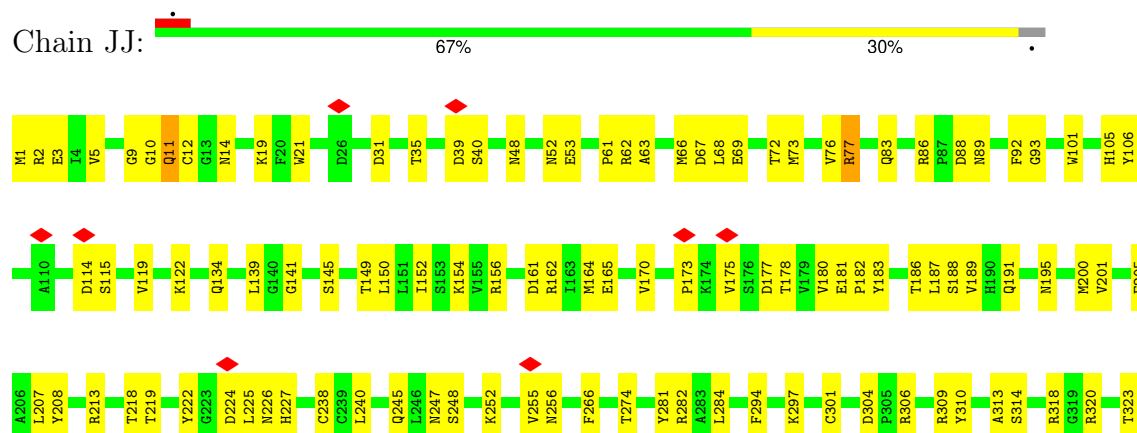
- Molecule 46: Tubulin beta chain

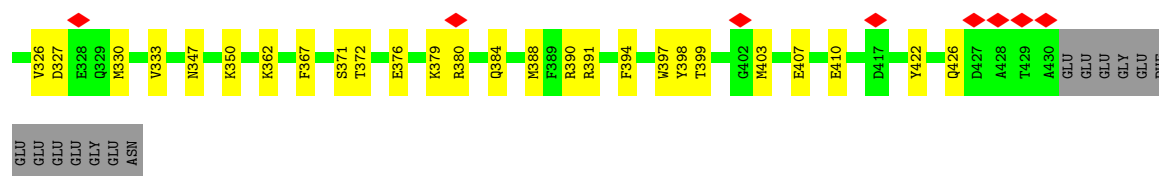


- Molecule 46: Tubulin beta chain

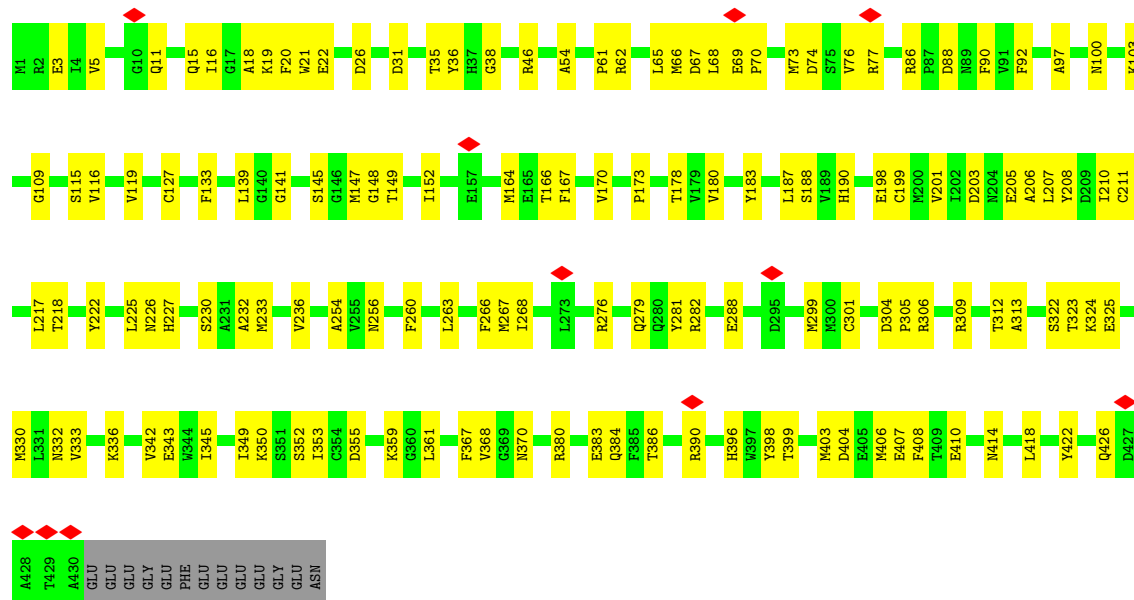


- Molecule 46: Tubulin beta chain

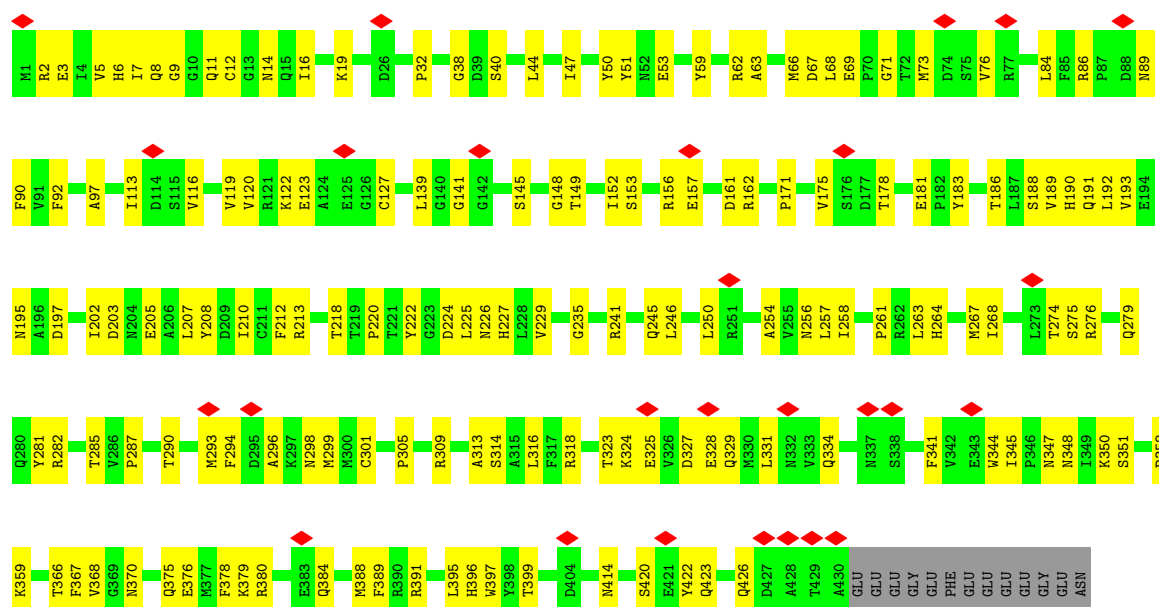




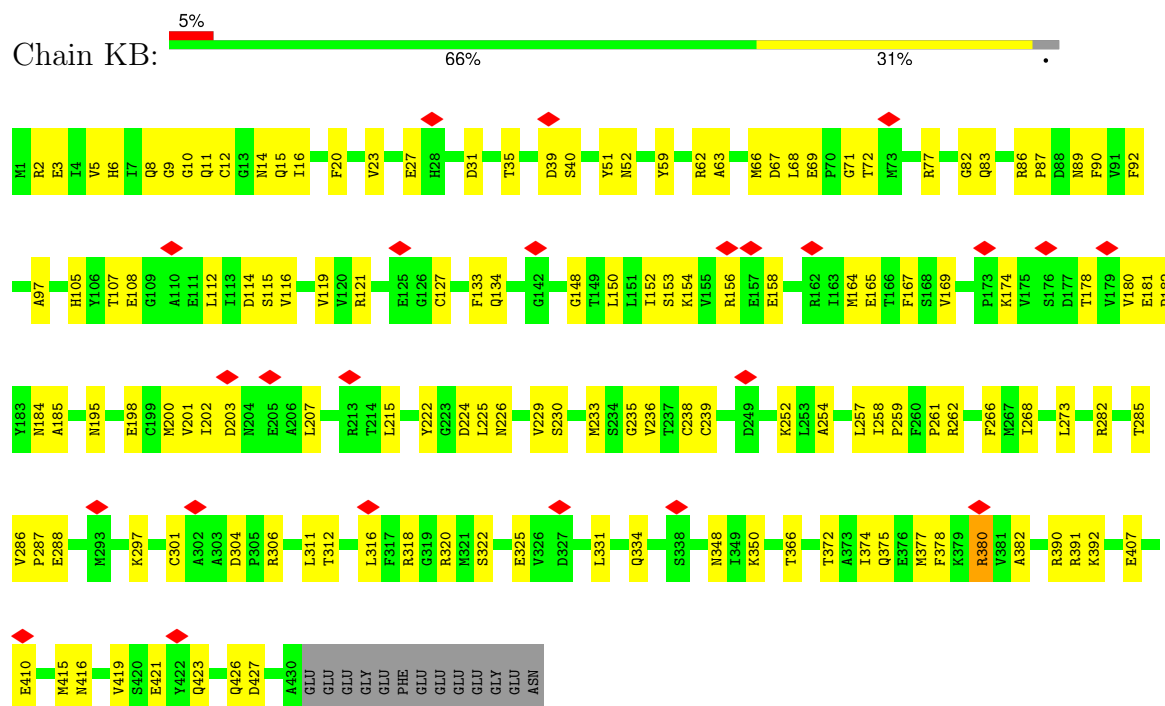
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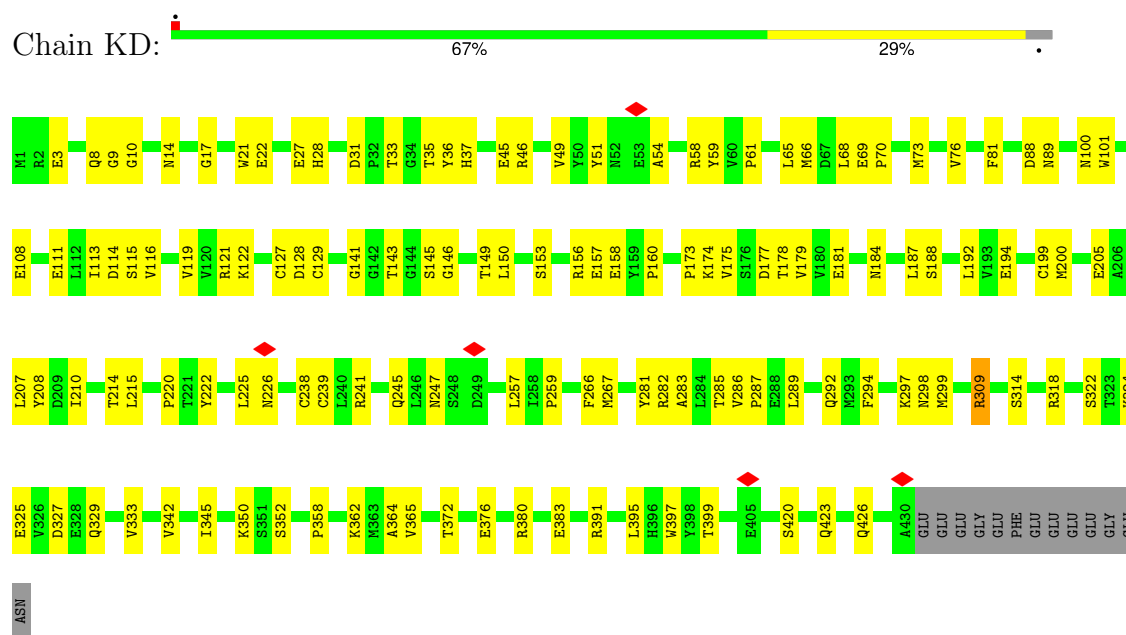
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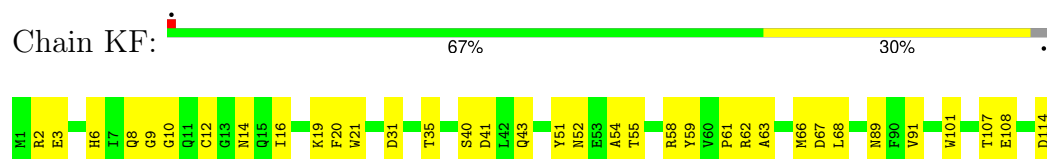
- Molecule 46: Tubulin beta chain

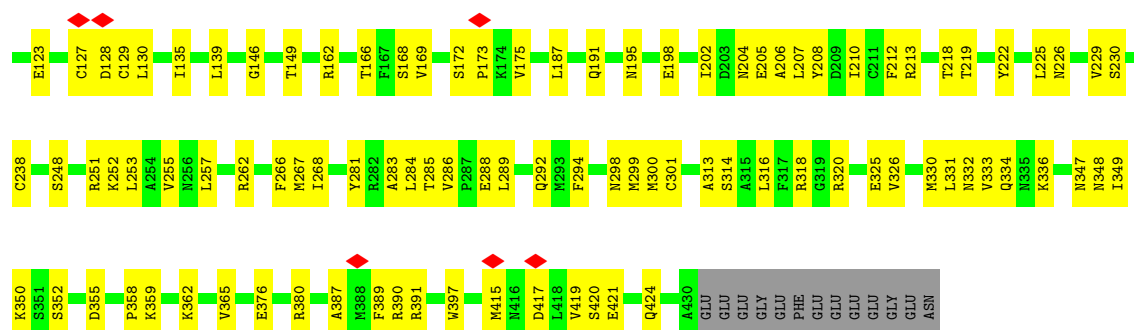


- Molecule 46: Tubulin beta chain

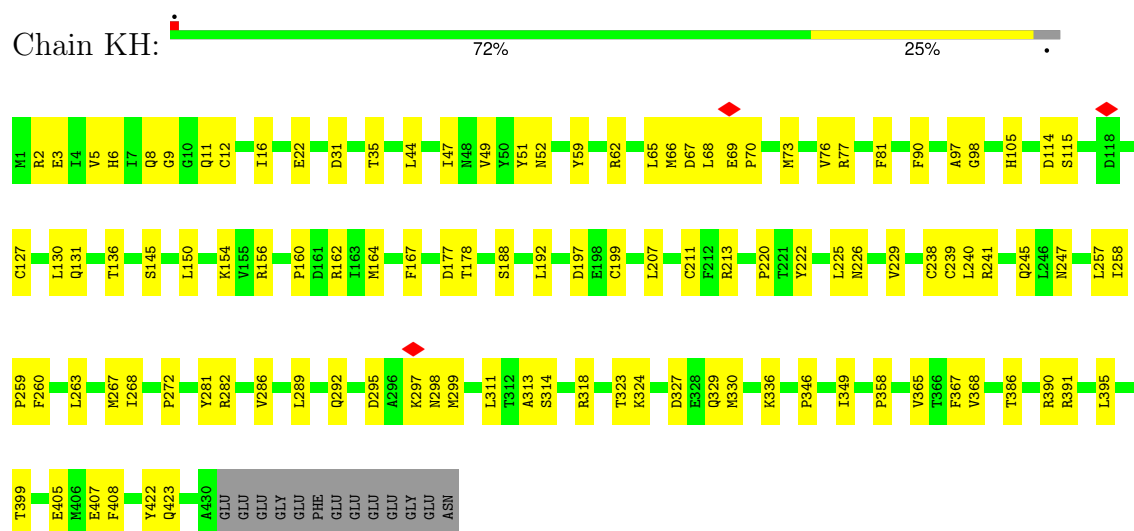


- Molecule 46: Tubulin beta chain

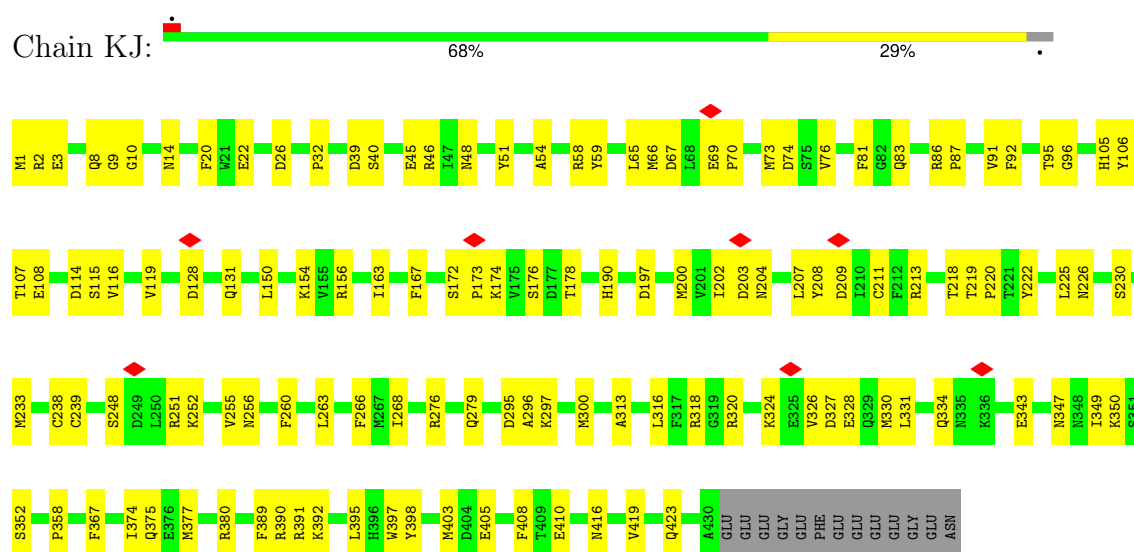




• Molecule 46: Tubulin beta chain

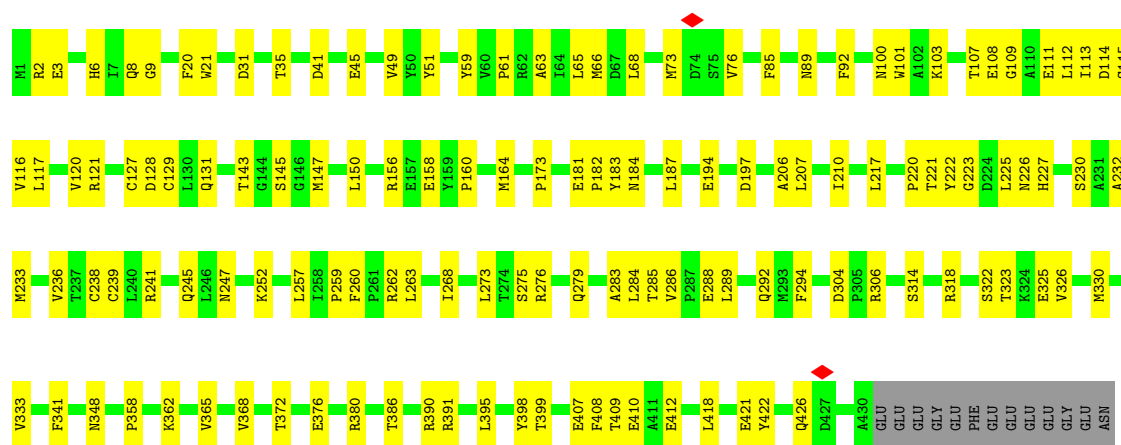


• Molecule 46: Tubulin beta chain



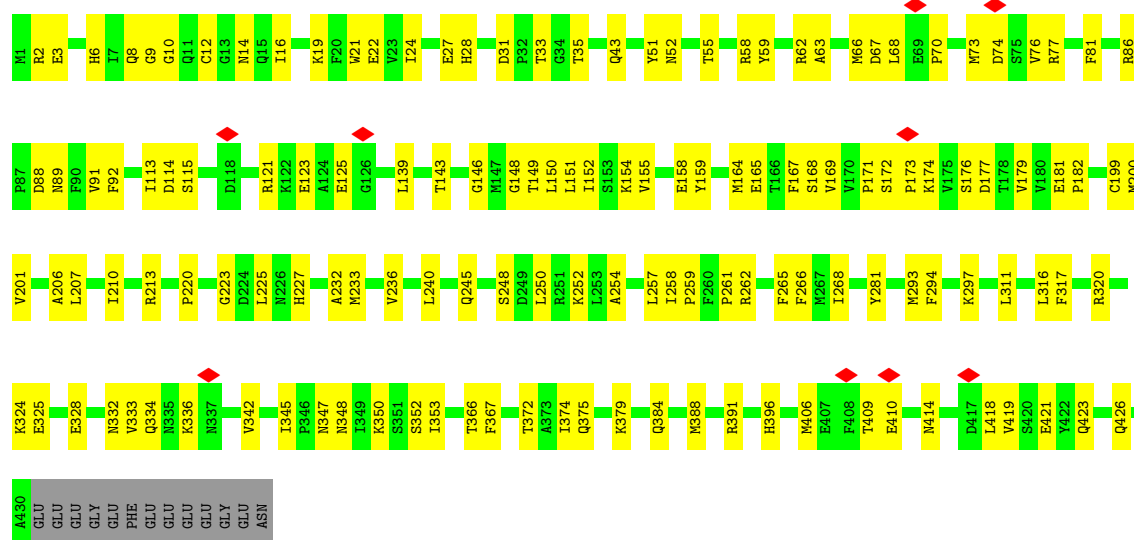
• Molecule 46: Tubulin beta chain





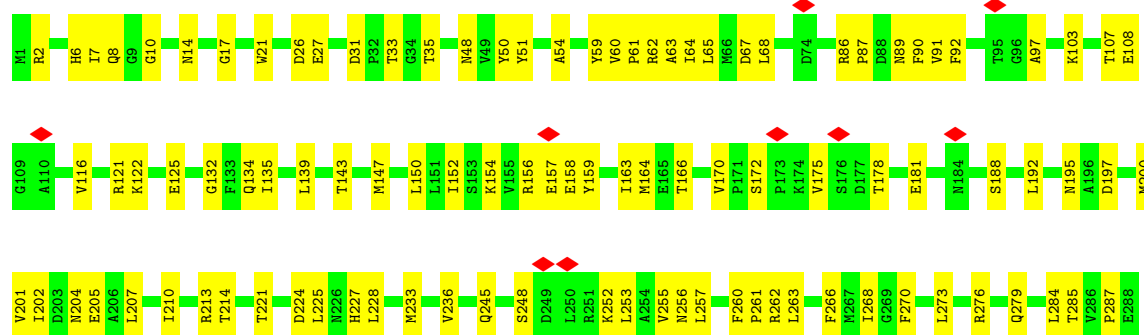
• Molecule 46: Tubulin beta chain

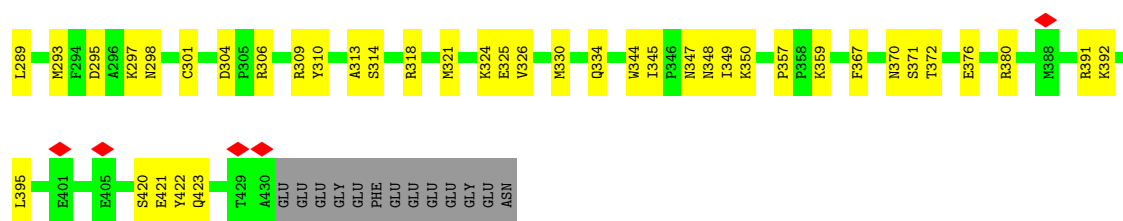
Chain KN: 65% 32%



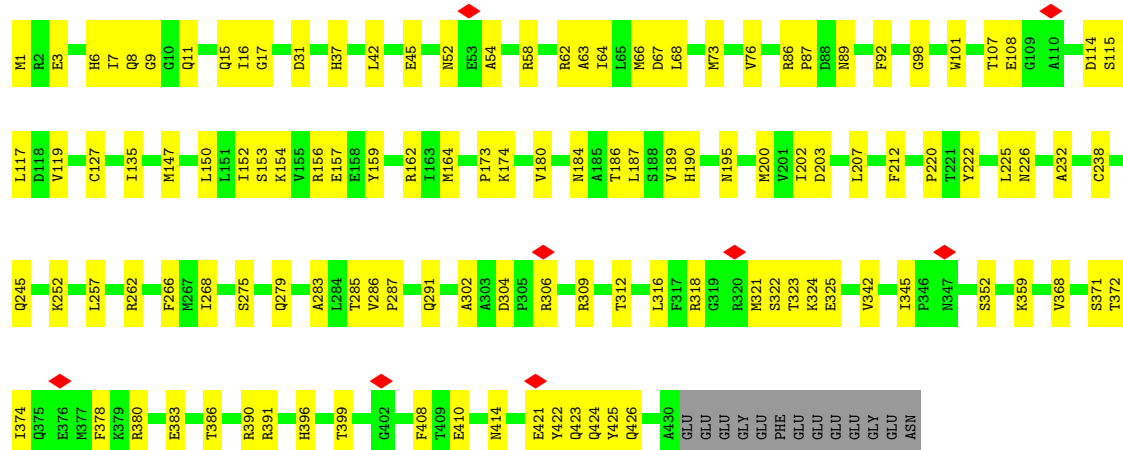
• Molecule 46: Tubulin beta chain

Chain LB: 65% 32%

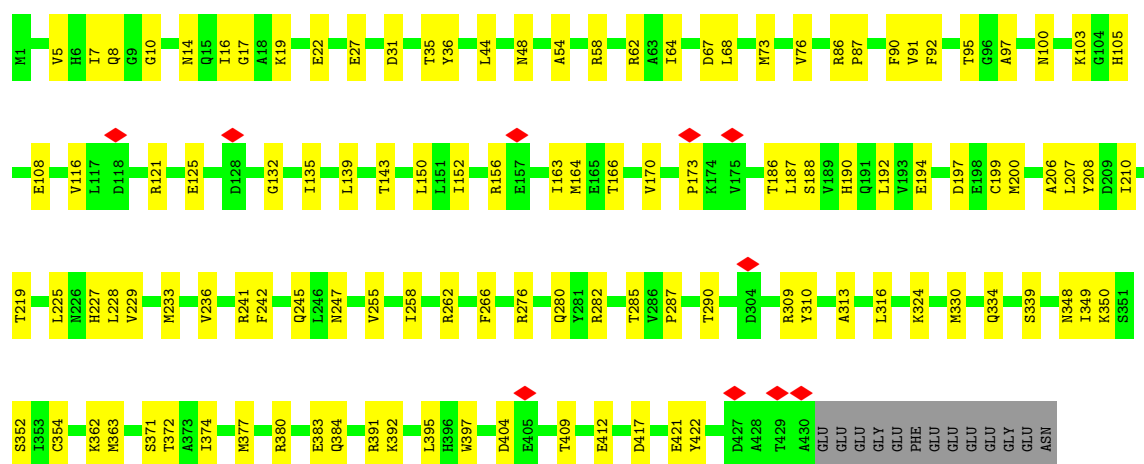




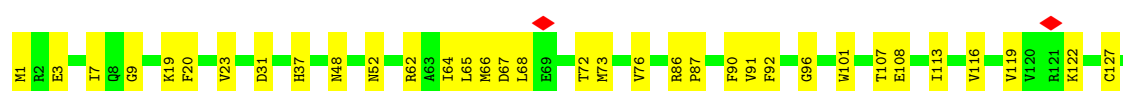
• Molecule 46: Tubulin beta chain



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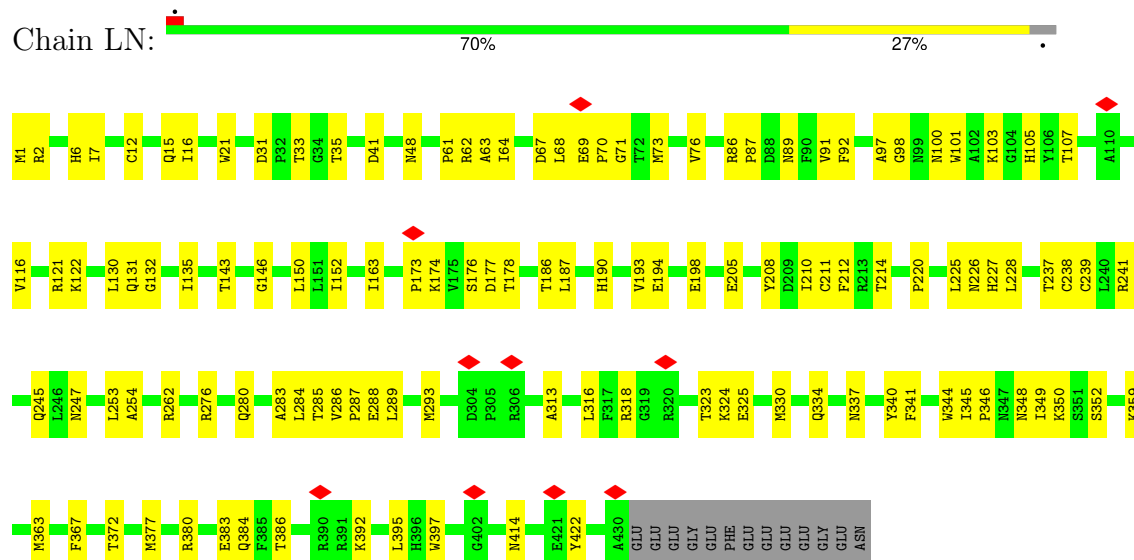
• Molecule 46: Tubulin beta chain





• Molecule 46: Tubulin beta chain

Chain LN:



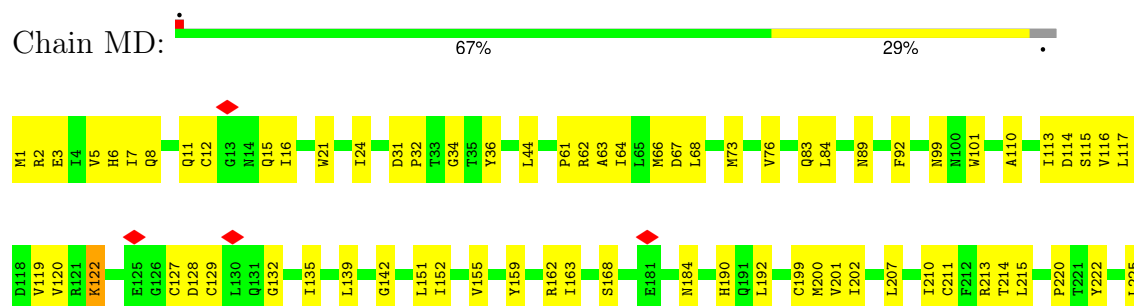
• Molecule 46: Tubulin beta chain

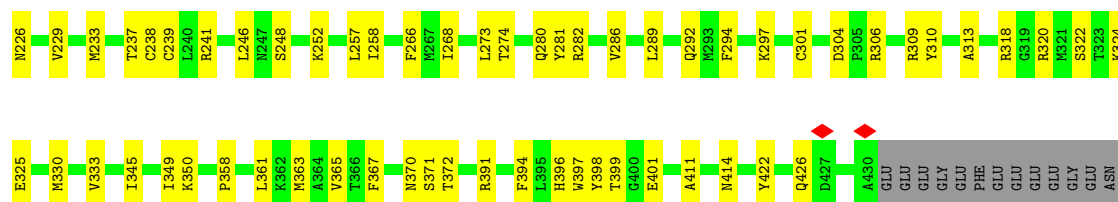
Chain MB:



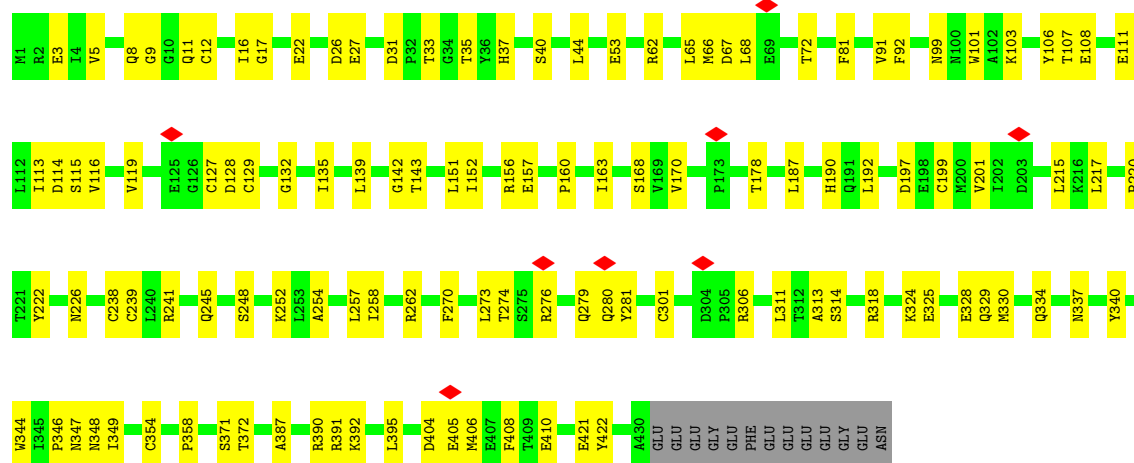
• Molecule 46: Tubulin beta chain

Chain MD:

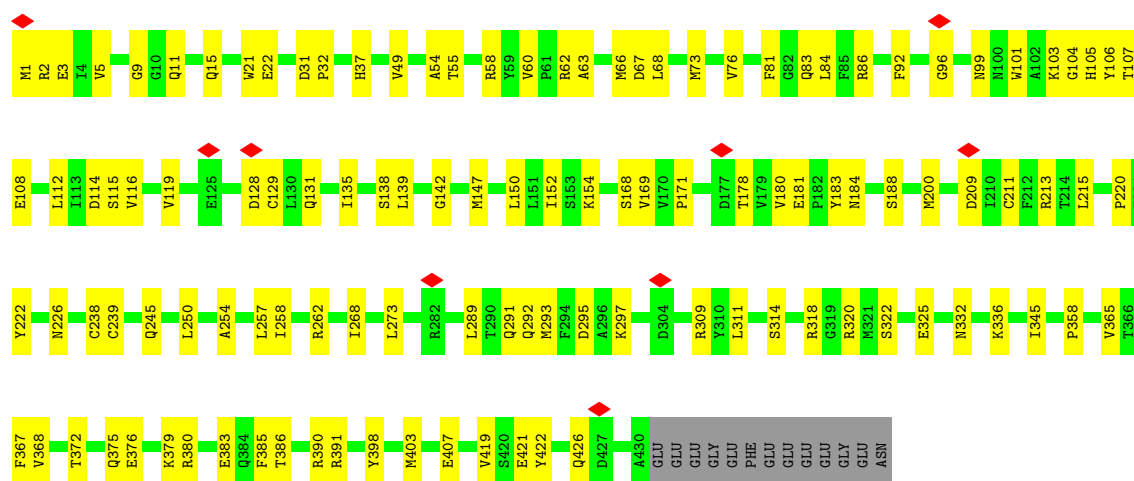




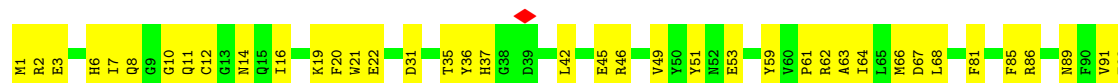
• Molecule 46: Tubulin beta chain

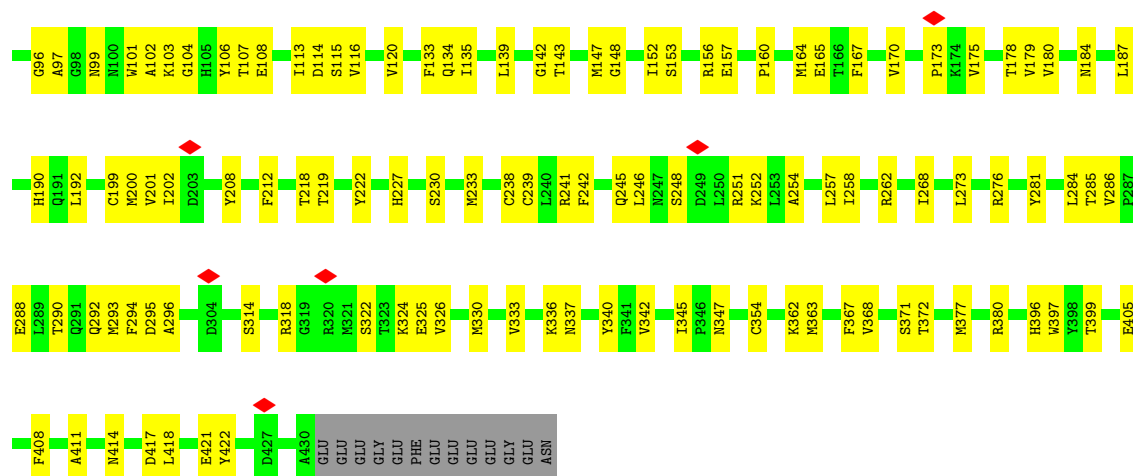


• Molecule 46: Tubulin beta chain



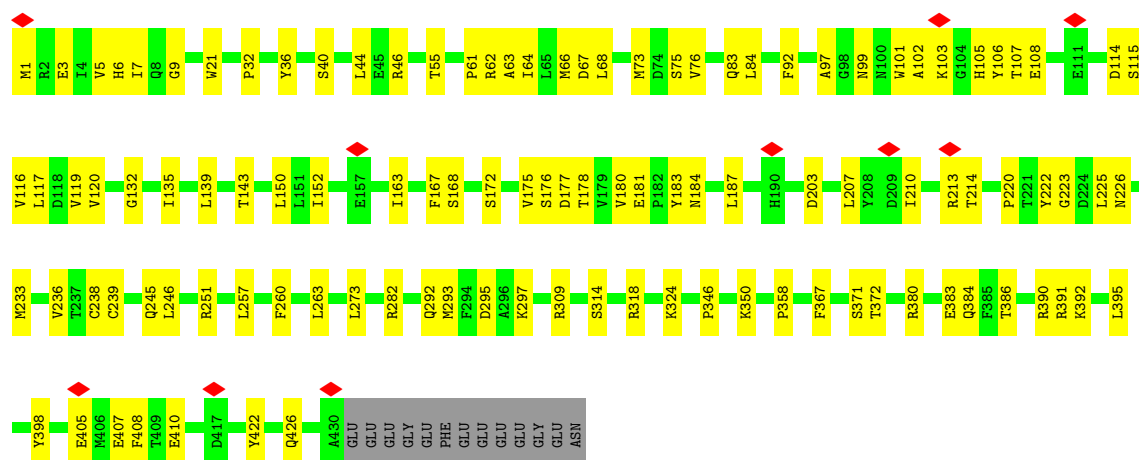
• Molecule 46: Tubulin beta chain





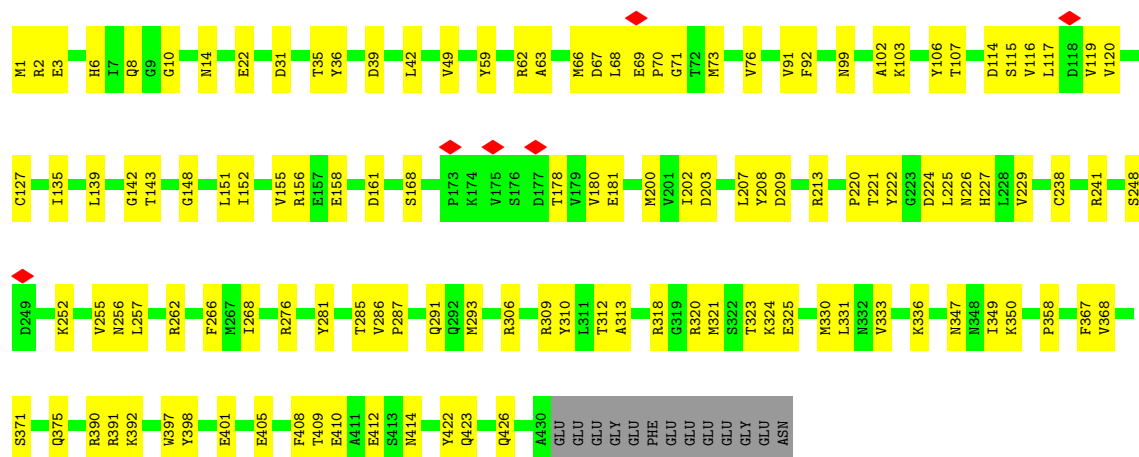
• Molecule 46: Tubulin beta chain

Chain ML: 72% 25% .

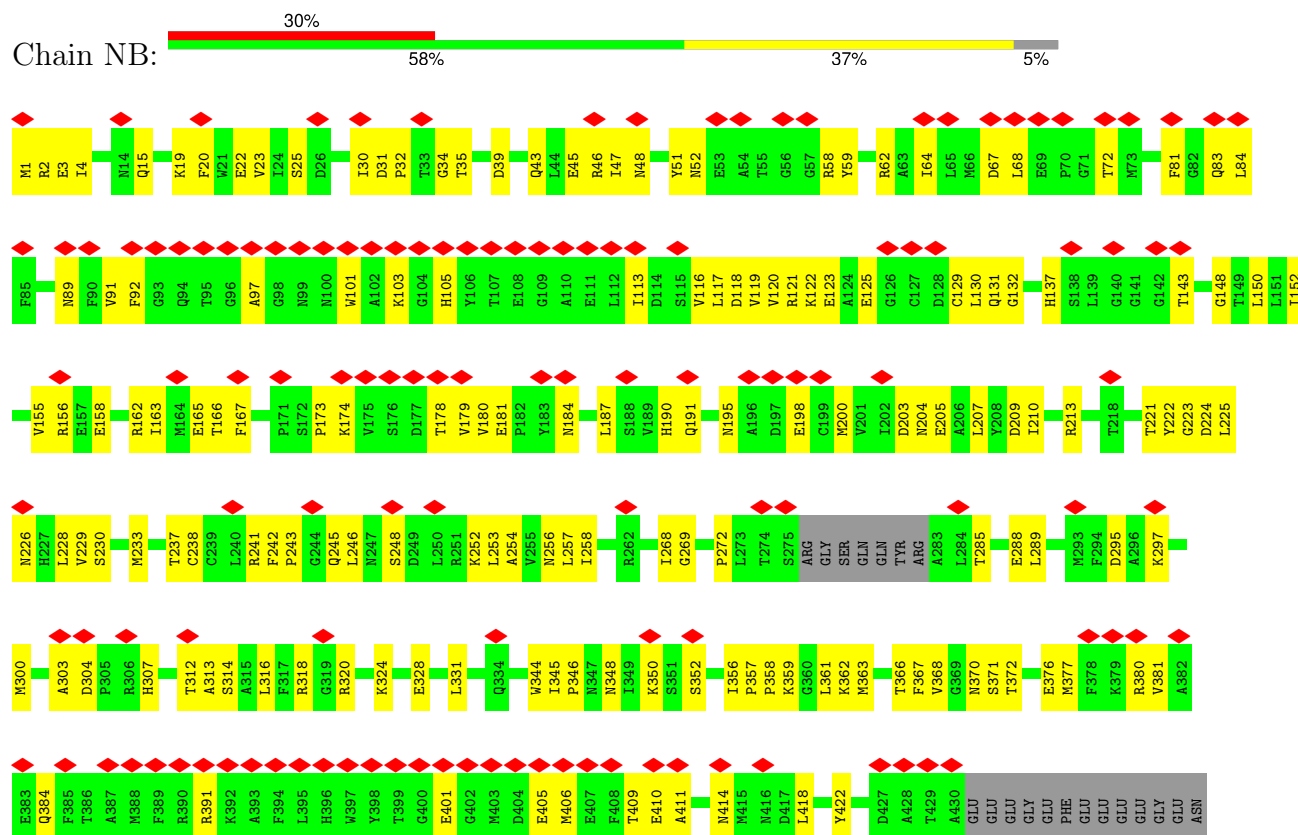


• Molecule 46: Tubulin beta chain

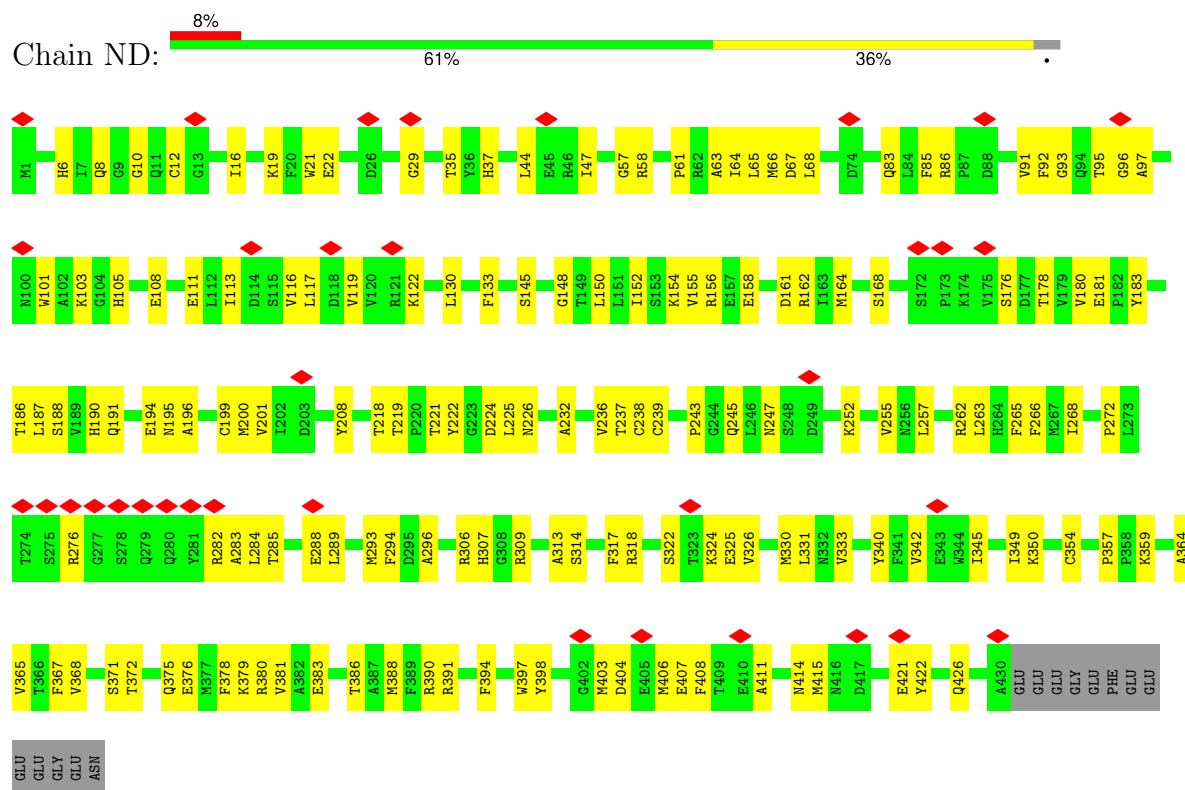
Chain MN: 69% 28% .



- Molecule 46: Tubulin beta chain

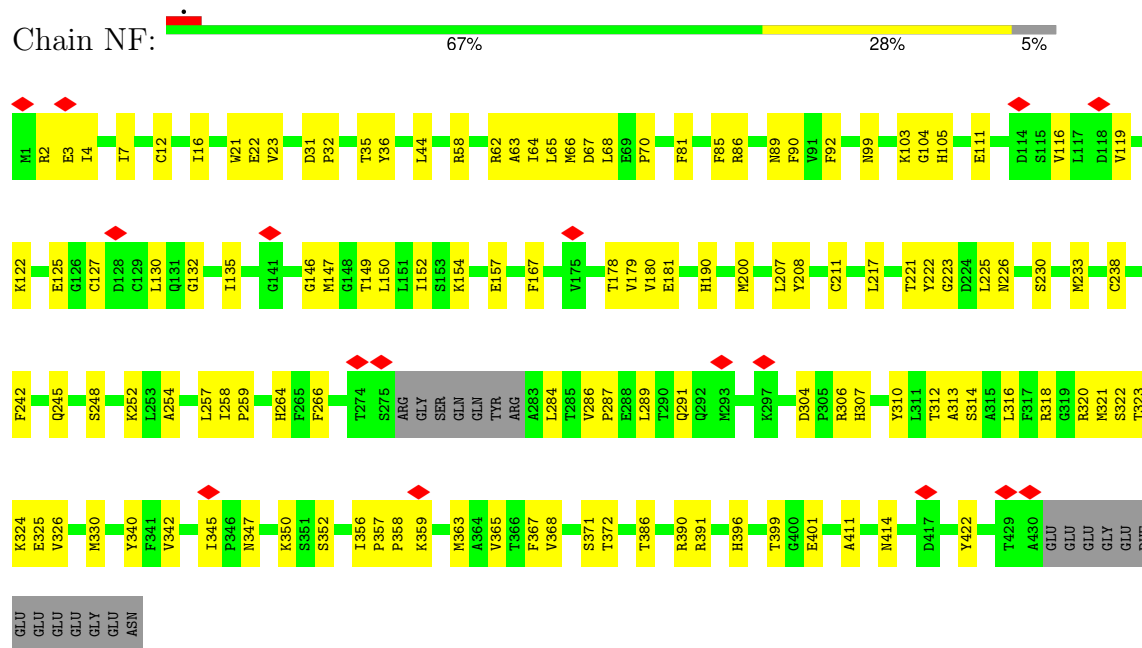


- Molecule 46: Tubulin beta chain



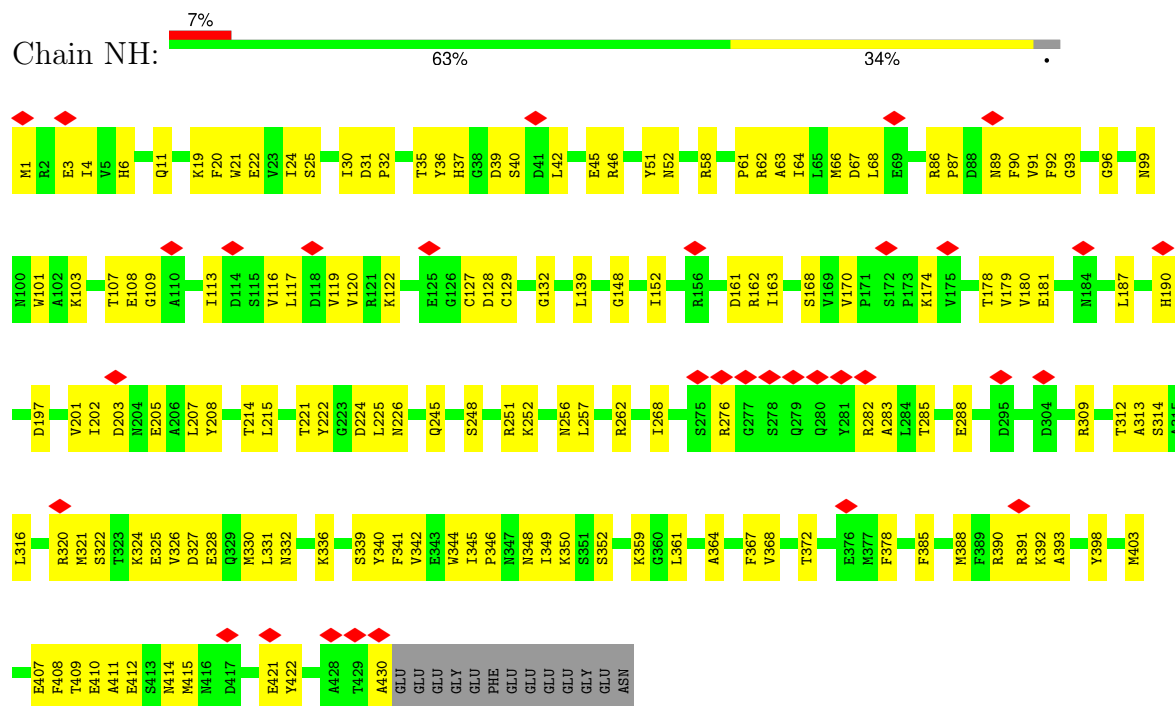
- Molecule 46: Tubulin beta chain

Chain NF:



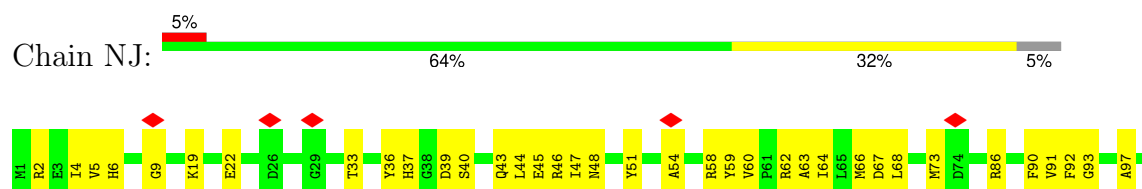
- Molecule 46: Tubulin beta chain

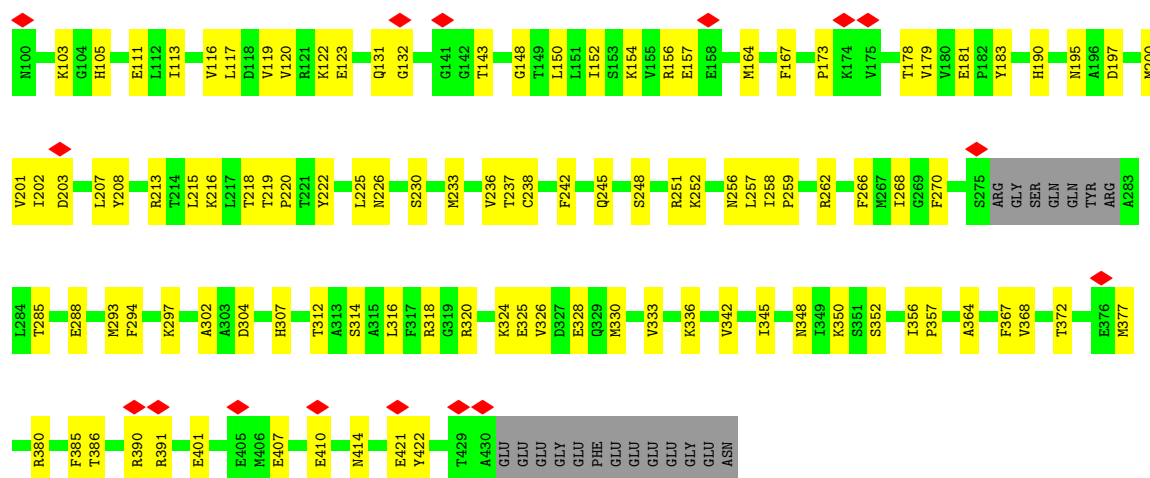
Chain NH:



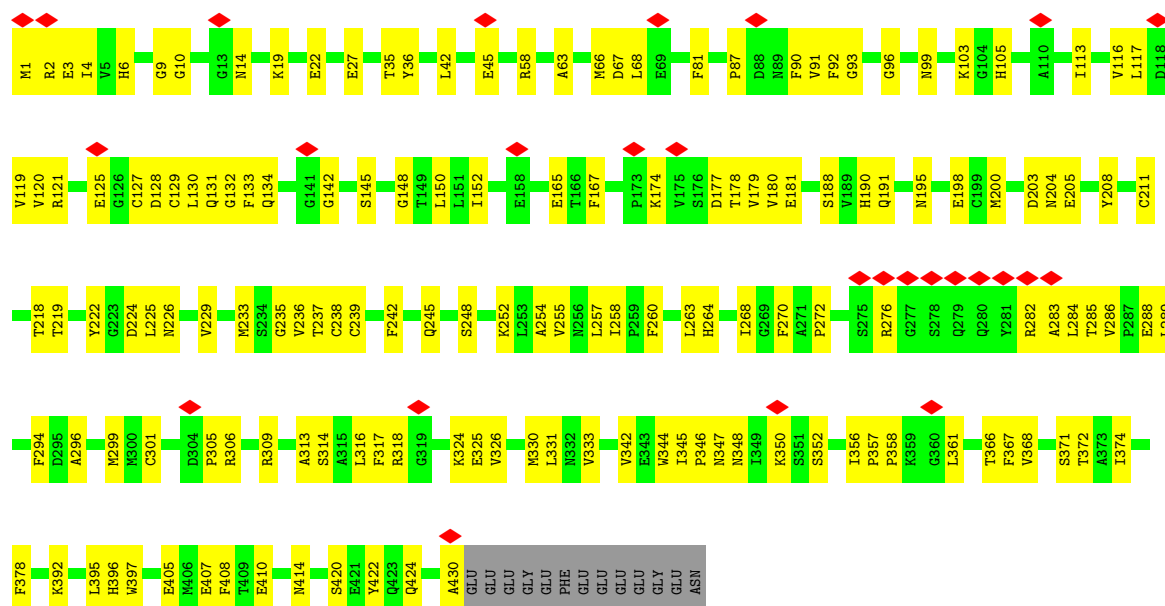
- Molecule 46: Tubulin beta chain

Chain NJ:

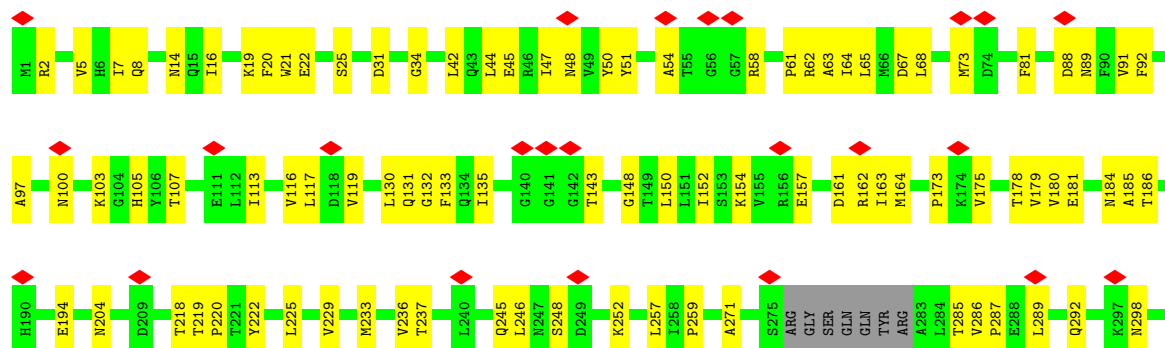


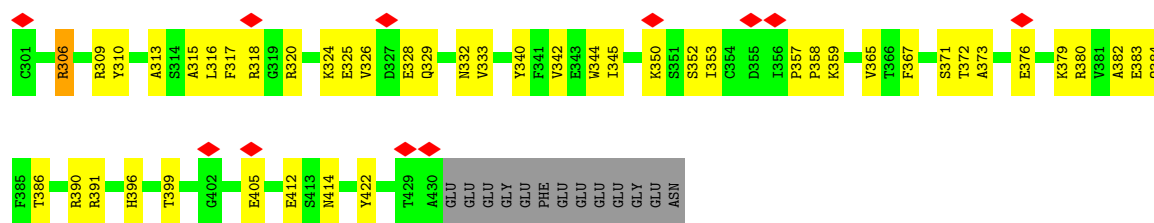


• Molecule 46: Tubulin beta chain



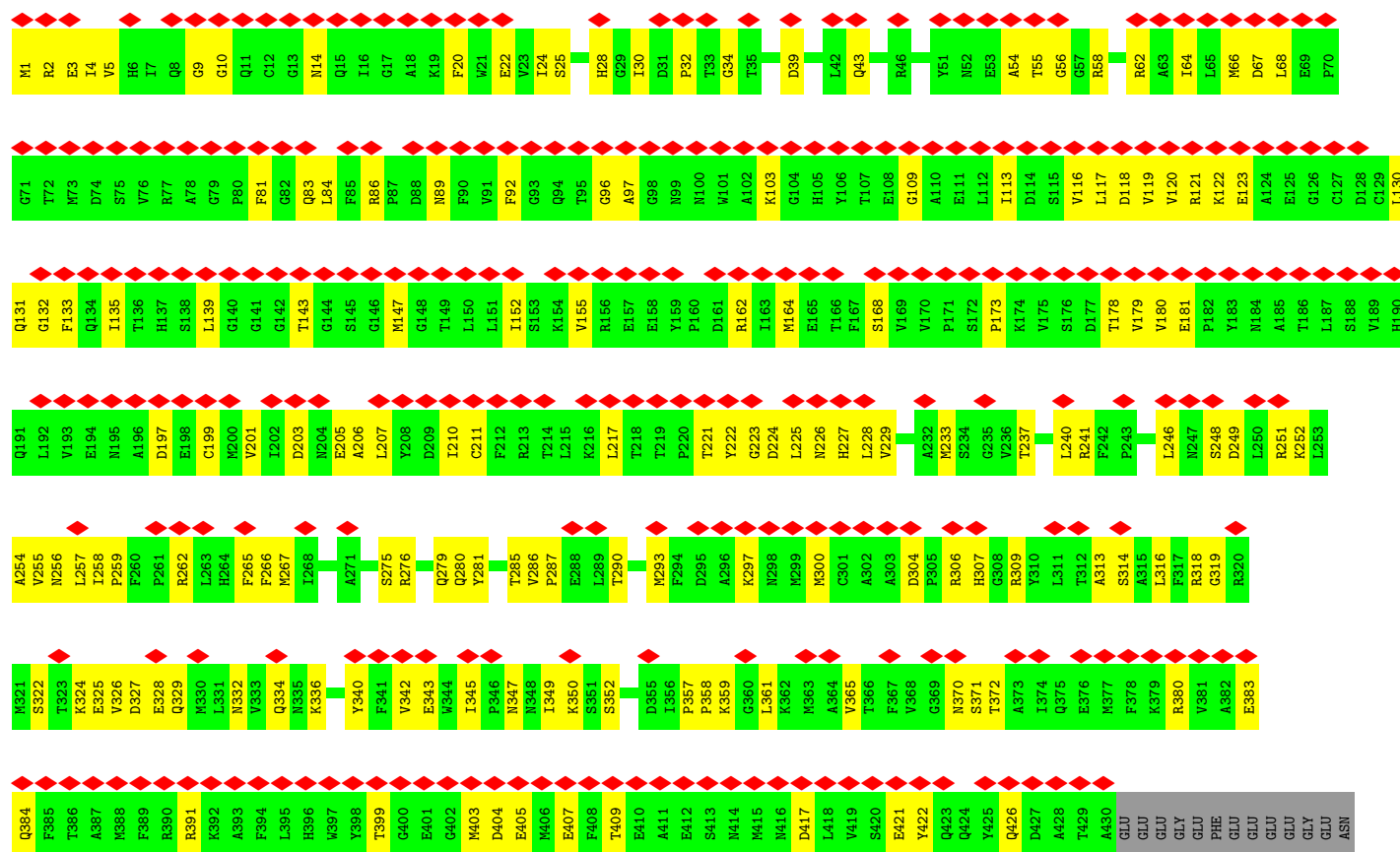
• Molecule 46: Tubulin beta chain





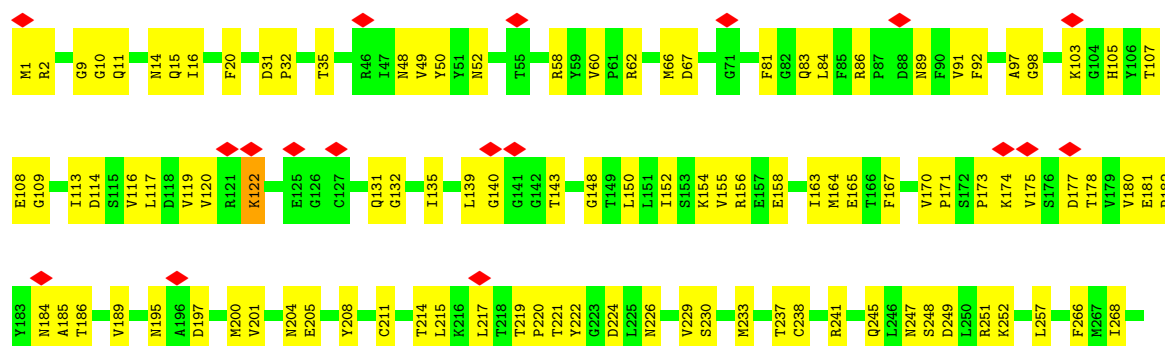
• Molecule 46: Tubulin beta chain

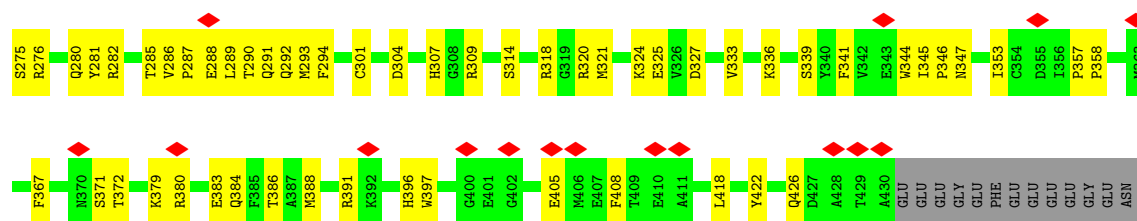
Chain OB:



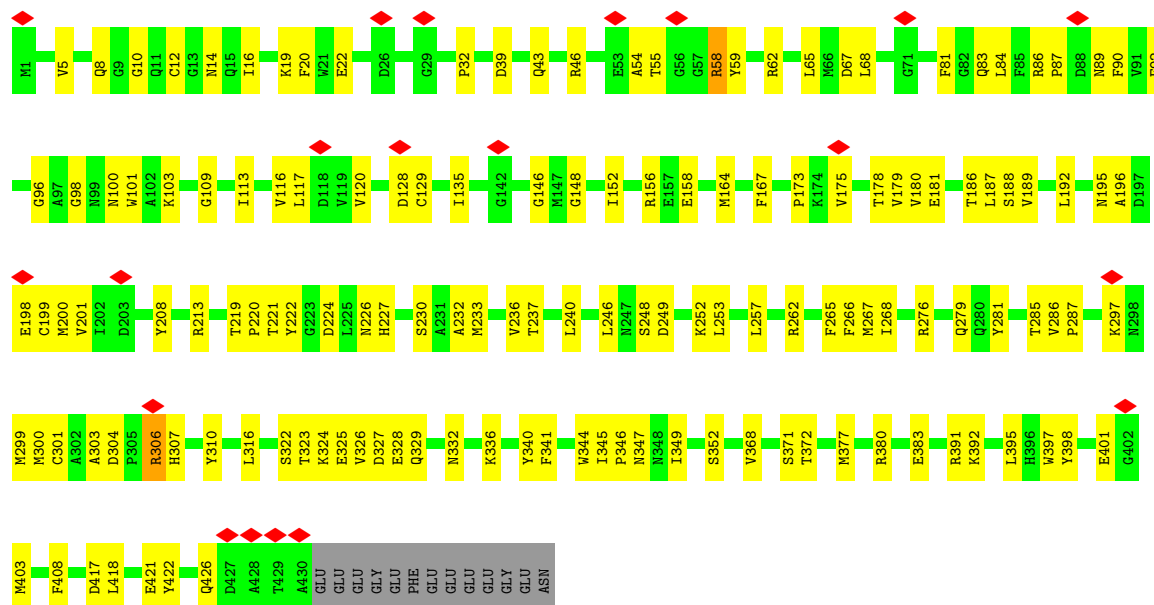
• Molecule 46: Tubulin beta chain

Chain OD:

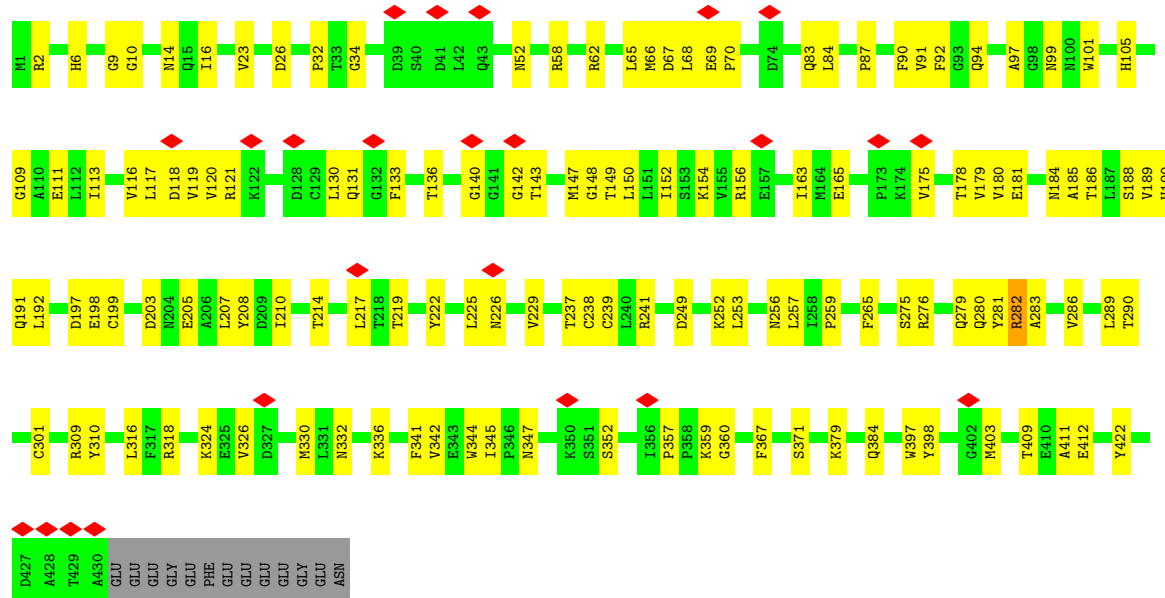




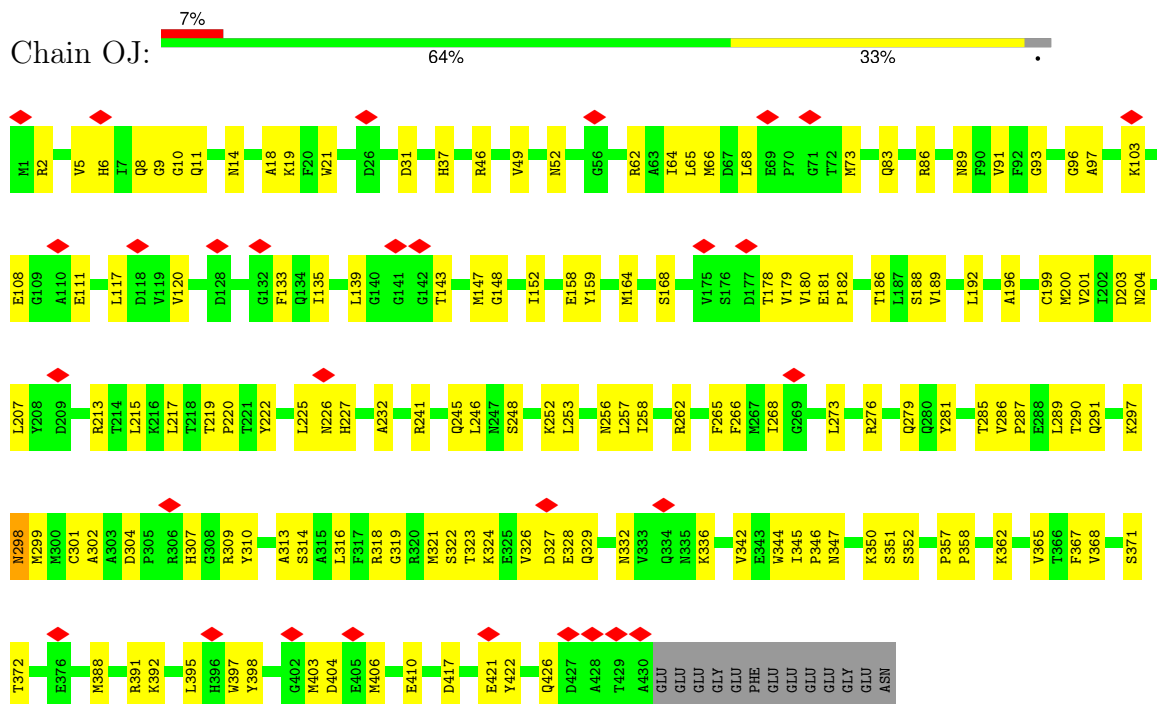
• Molecule 46: Tubulin beta chain



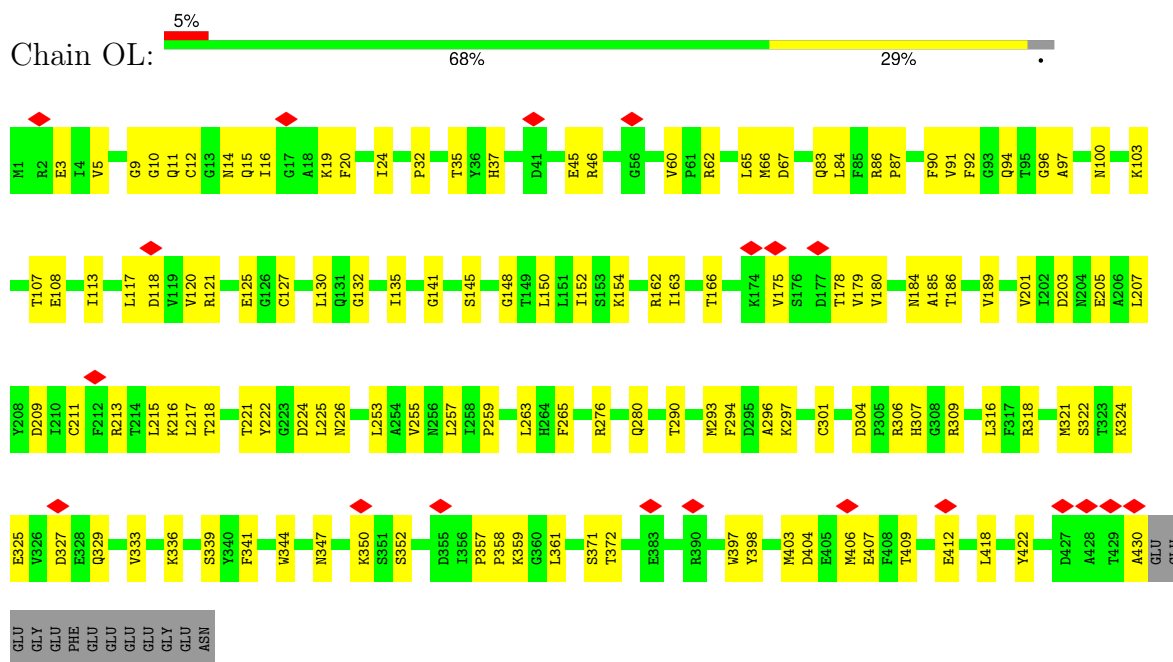
• Molecule 46: Tubulin beta chain



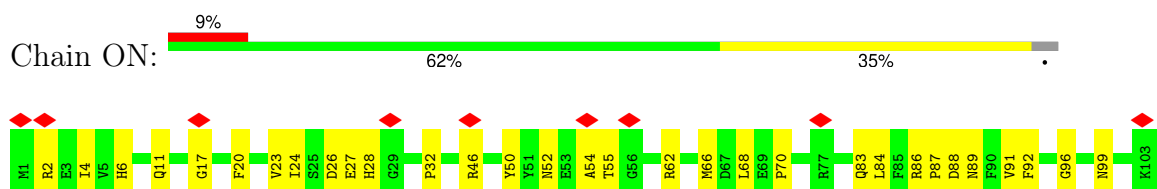
- Molecule 46: Tubulin beta chain

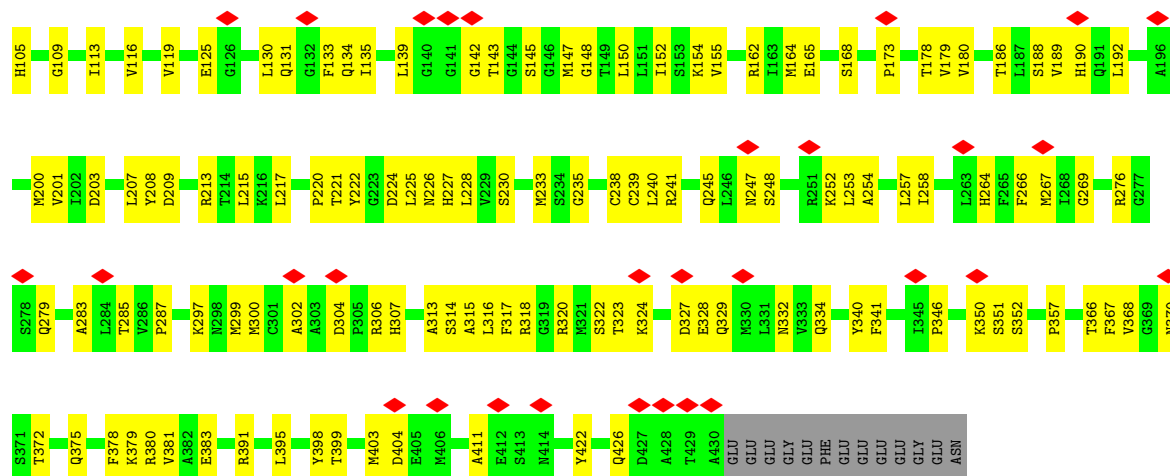


- Molecule 46: Tubulin beta chain

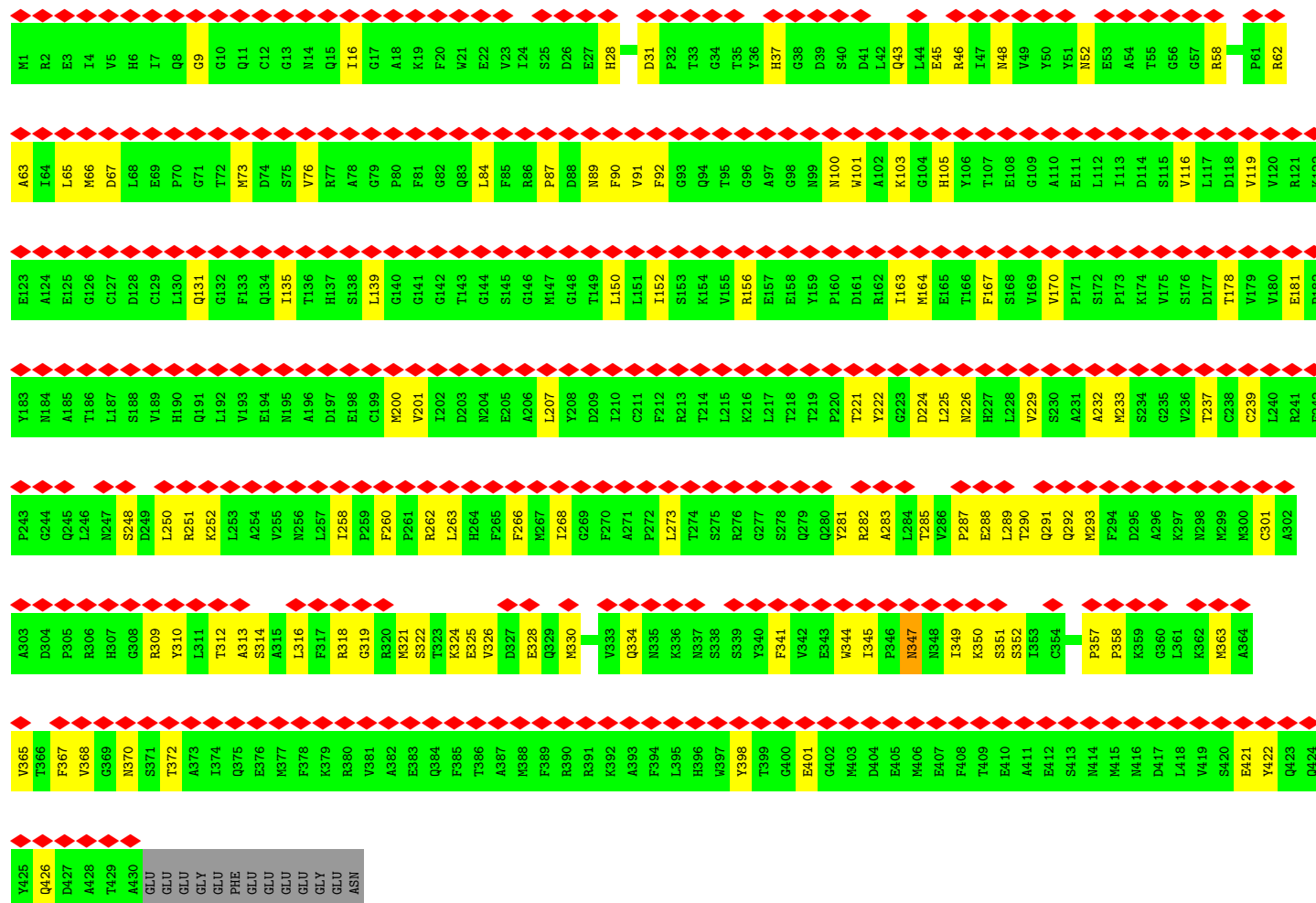
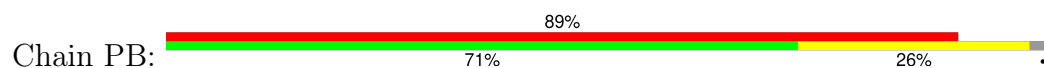


- Molecule 46: Tubulin beta chain



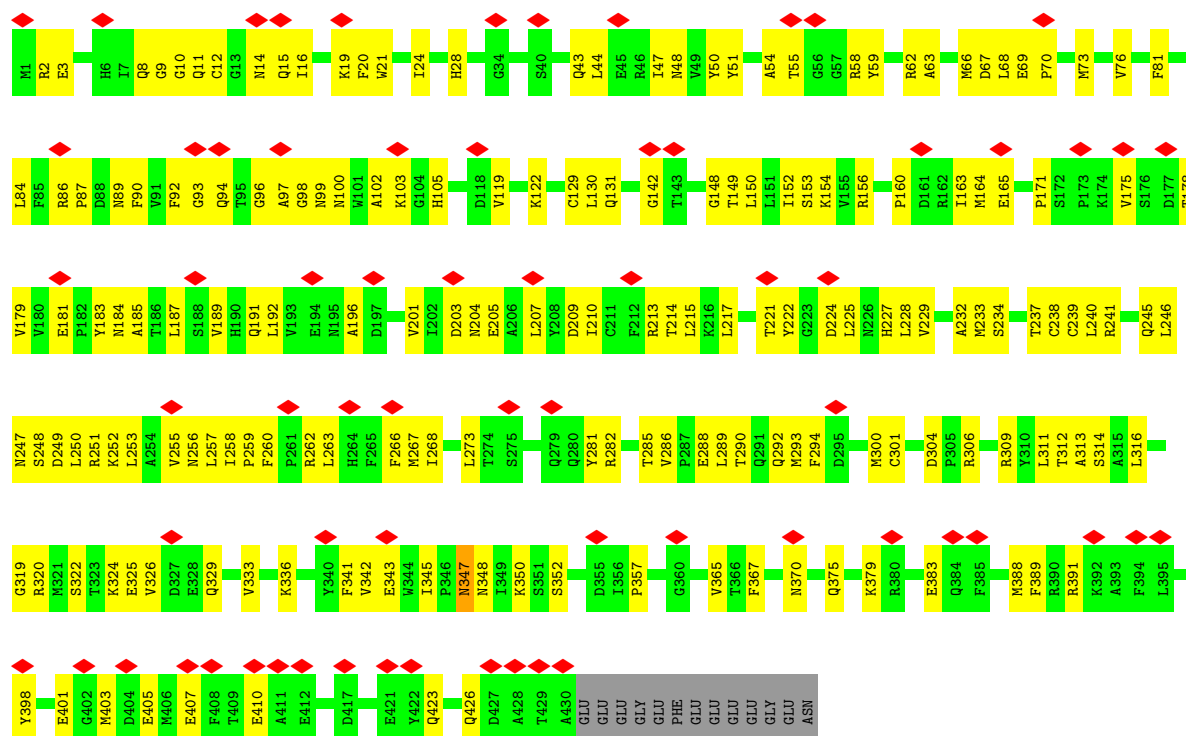


• Molecule 46: Tubulin beta chain

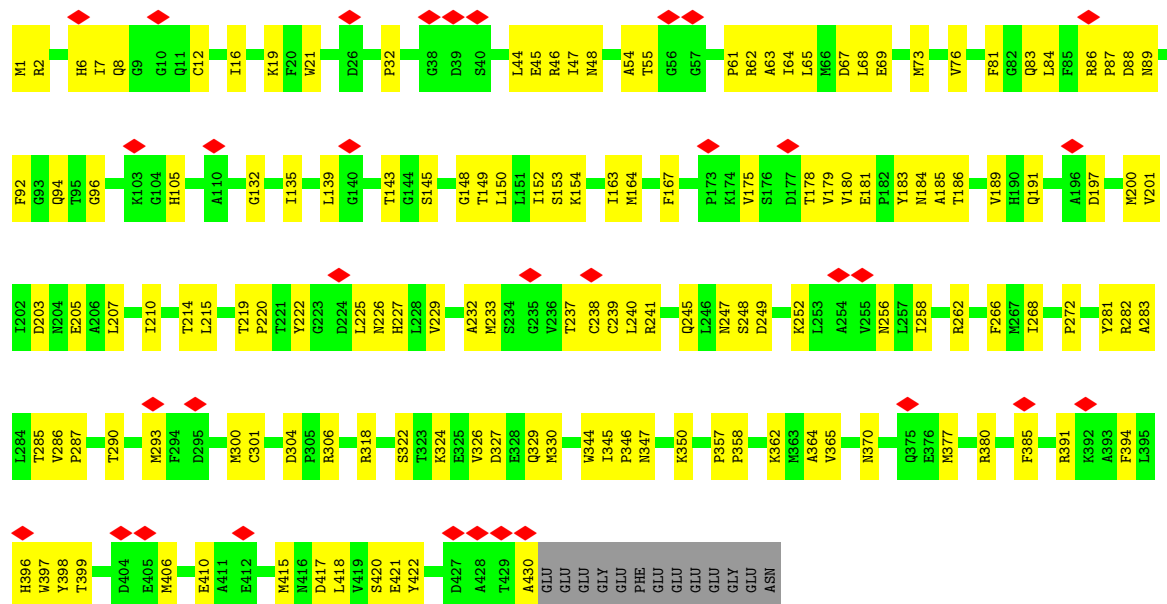


• Molecule 46: Tubulin beta chain

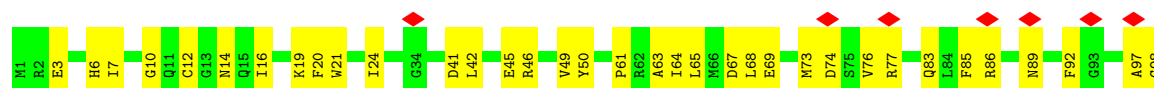


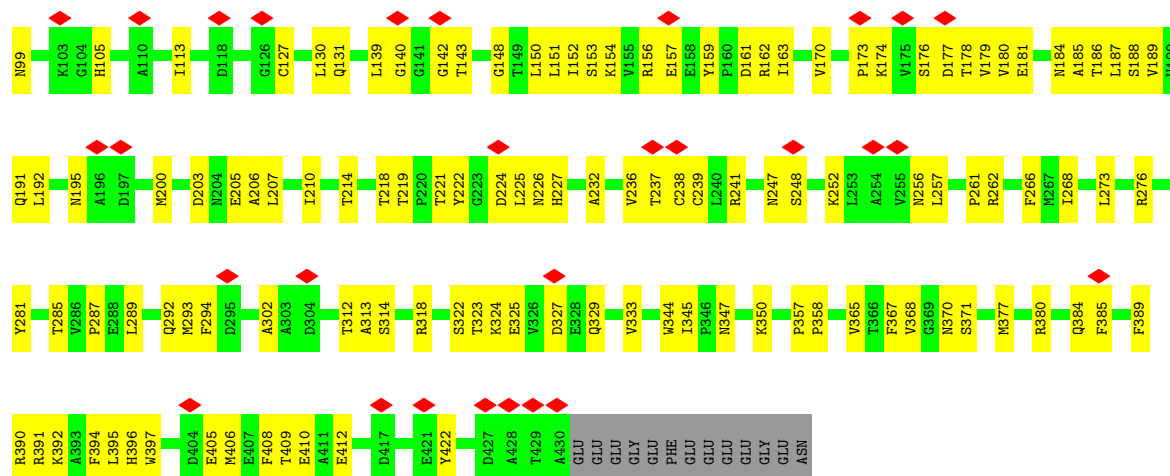


• Molecule 46: Tubulin beta chain

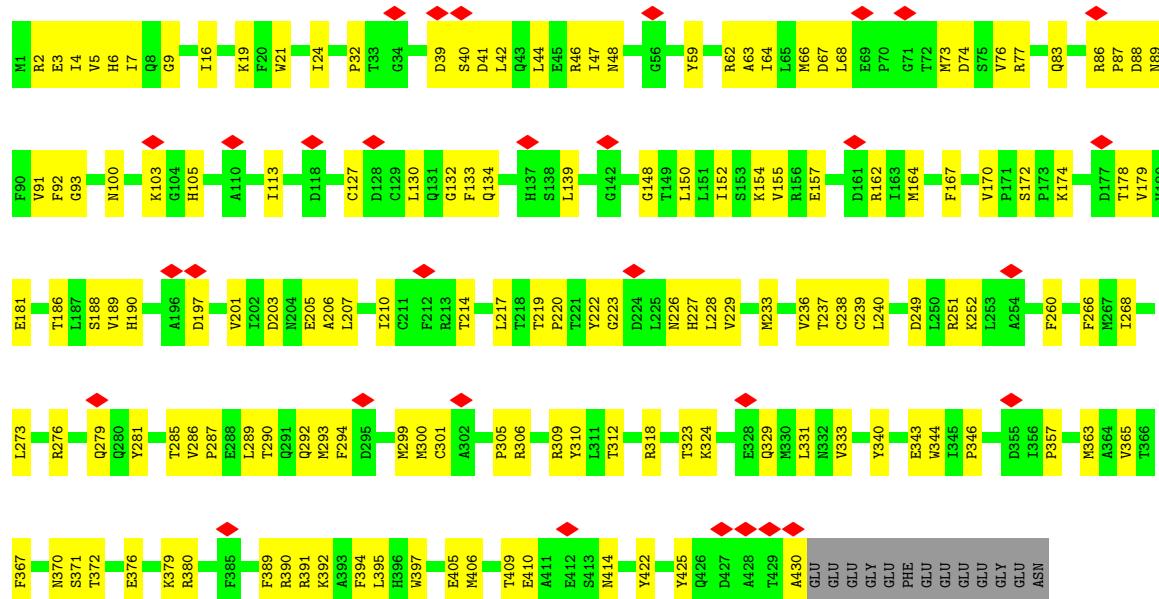


• Molecule 46: Tubulin beta chain

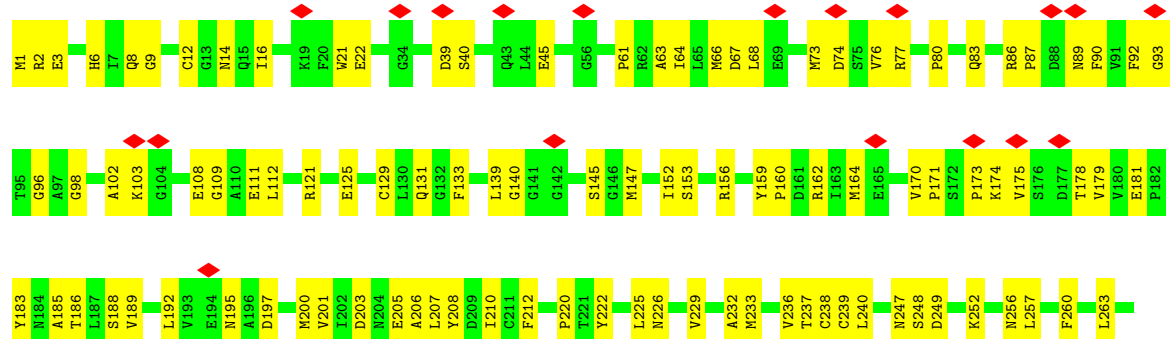


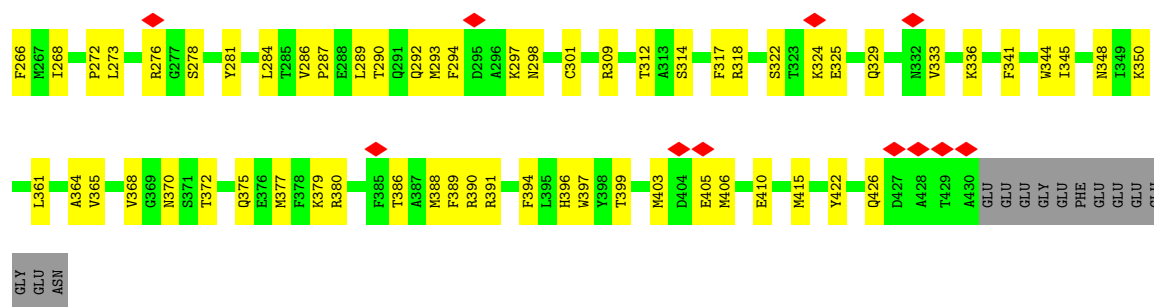


• Molecule 46: Tubulin beta chain

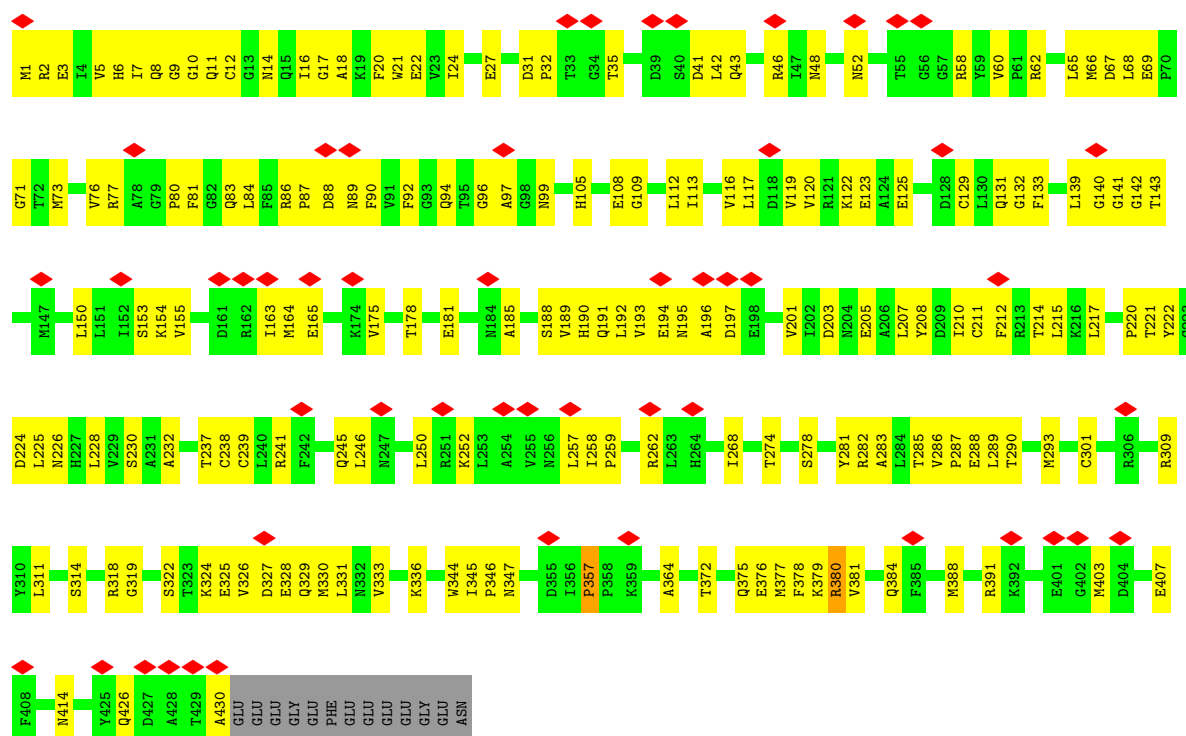


• Molecule 46: Tubulin beta chain

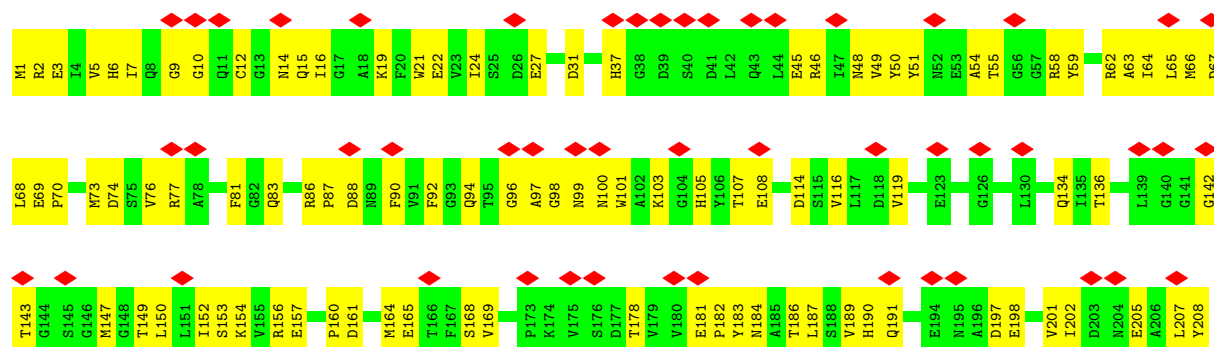


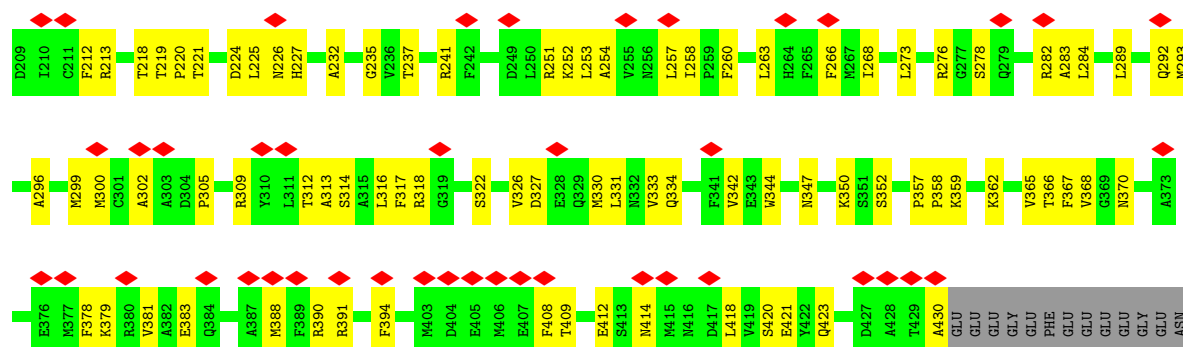


• Molecule 46: Tubulin beta chain

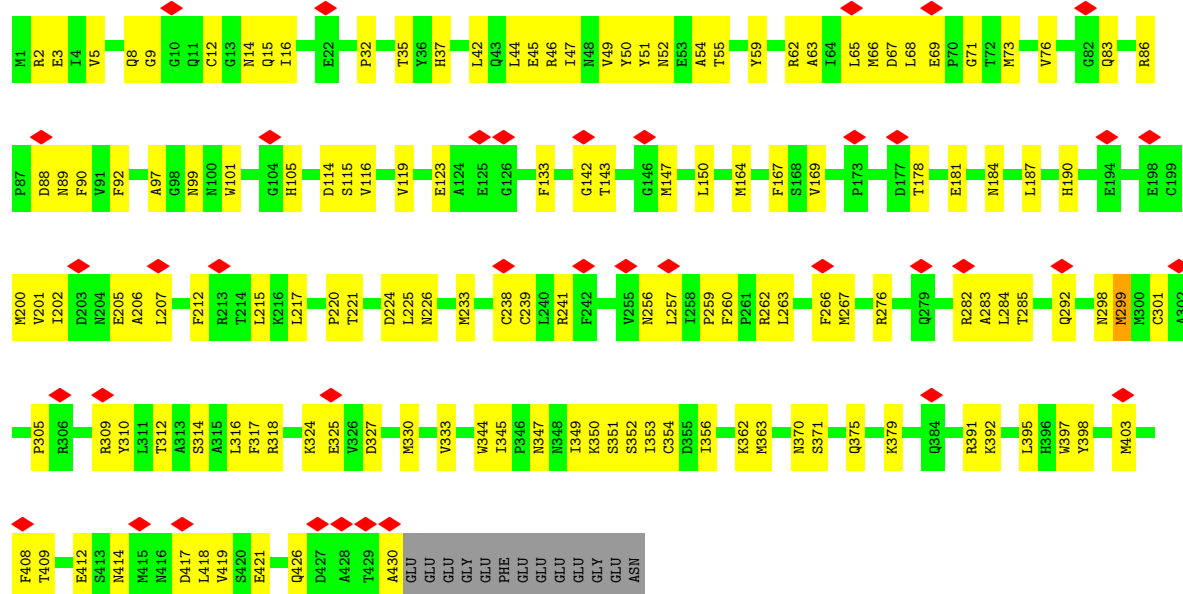


• Molecule 46: Tubulin beta chain

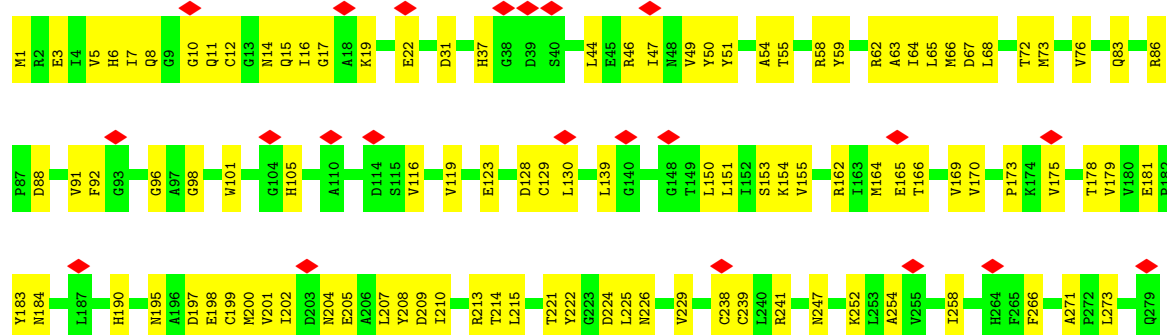


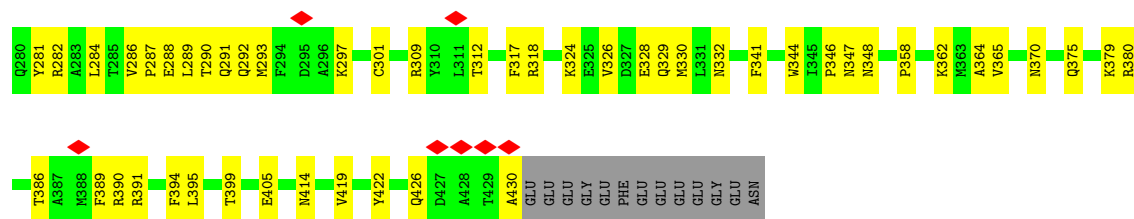


• Molecule 46: Tubulin beta chain

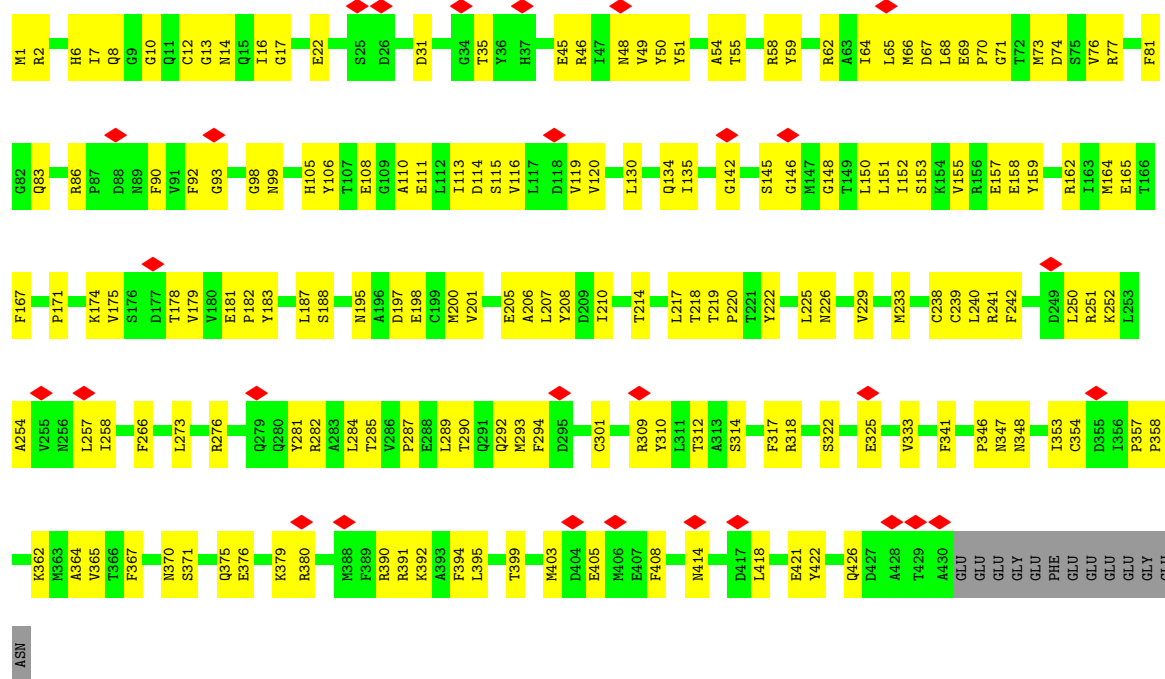


• Molecule 46: Tubulin beta chain

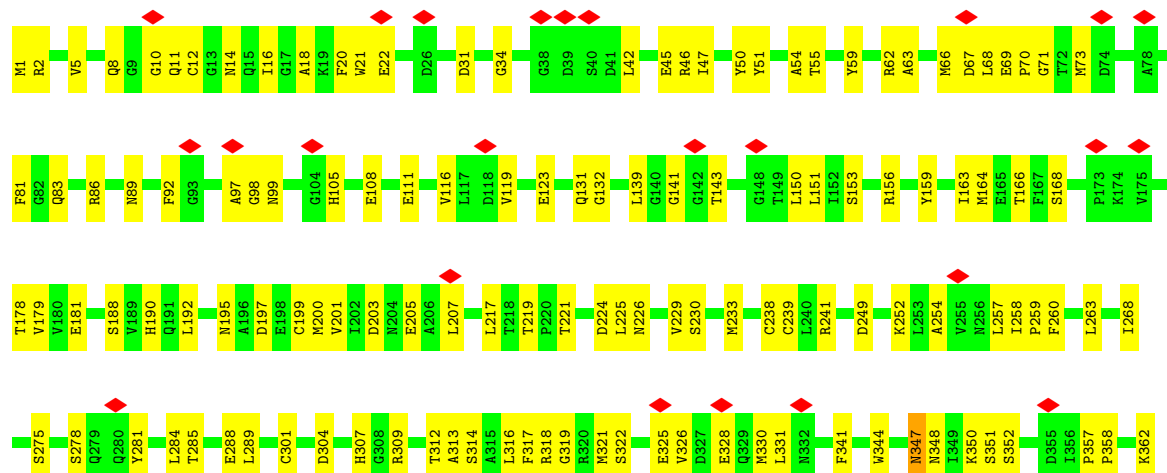


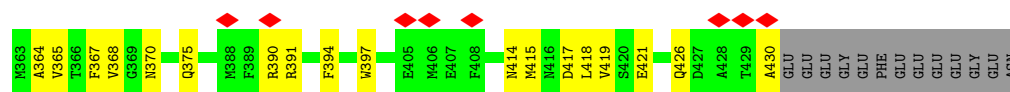


• Molecule 46: Tubulin beta chain

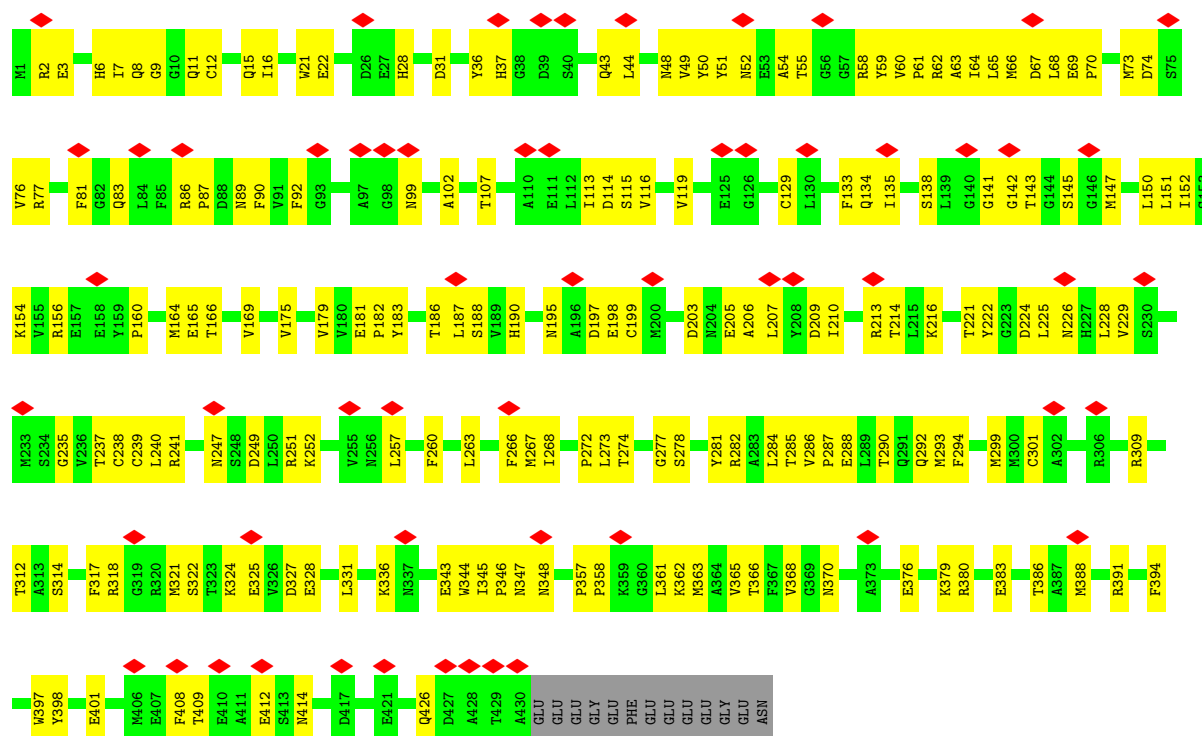


• Molecule 46: Tubulin beta chain

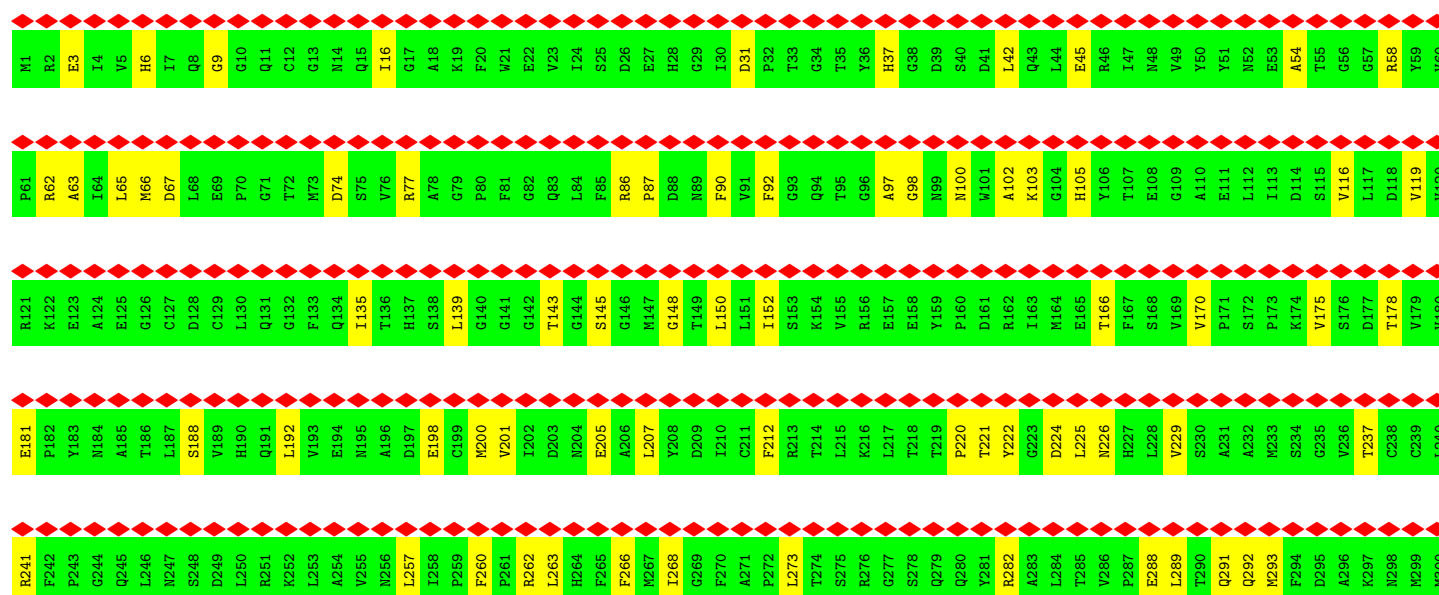
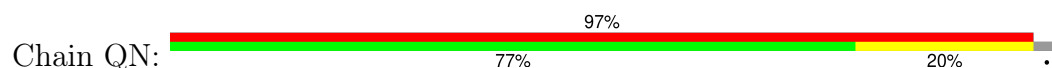


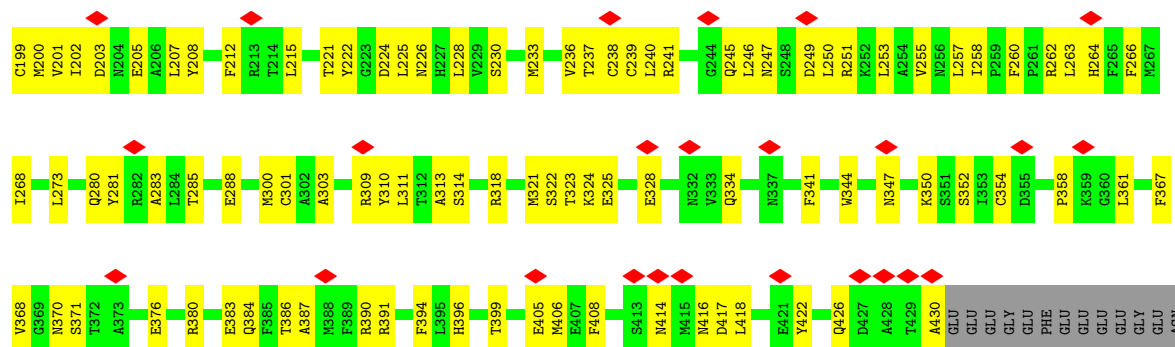


• Molecule 46: Tubulin beta chain

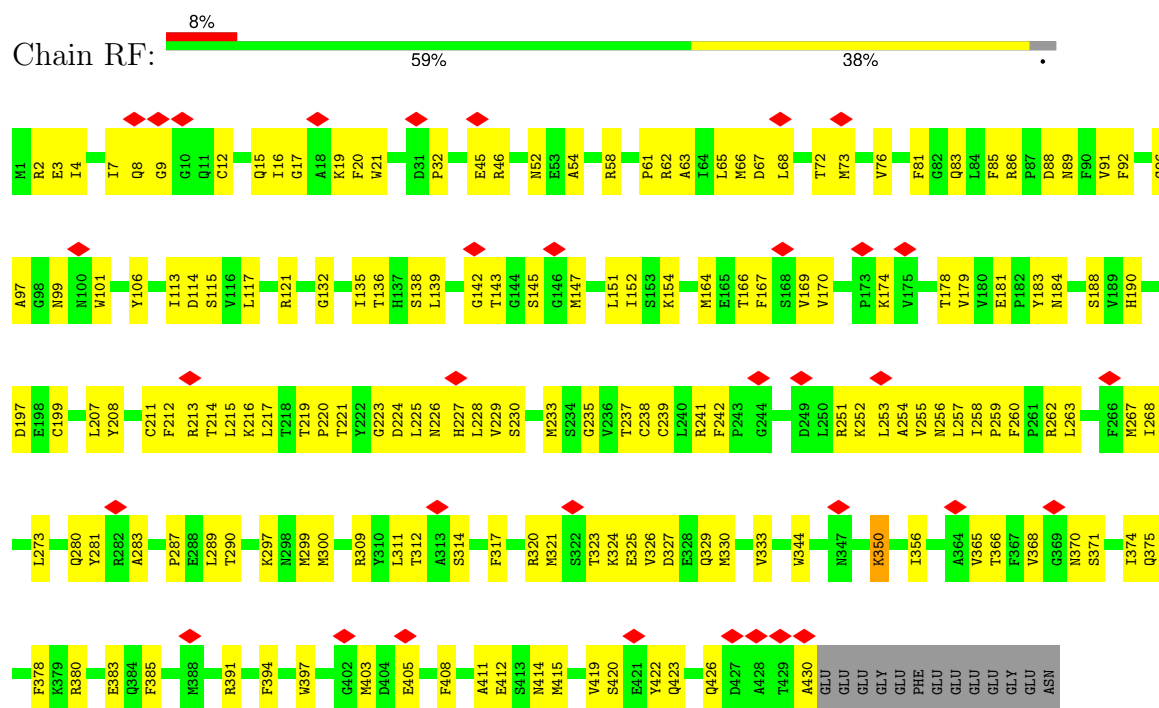


• Molecule 46: Tubulin beta chain

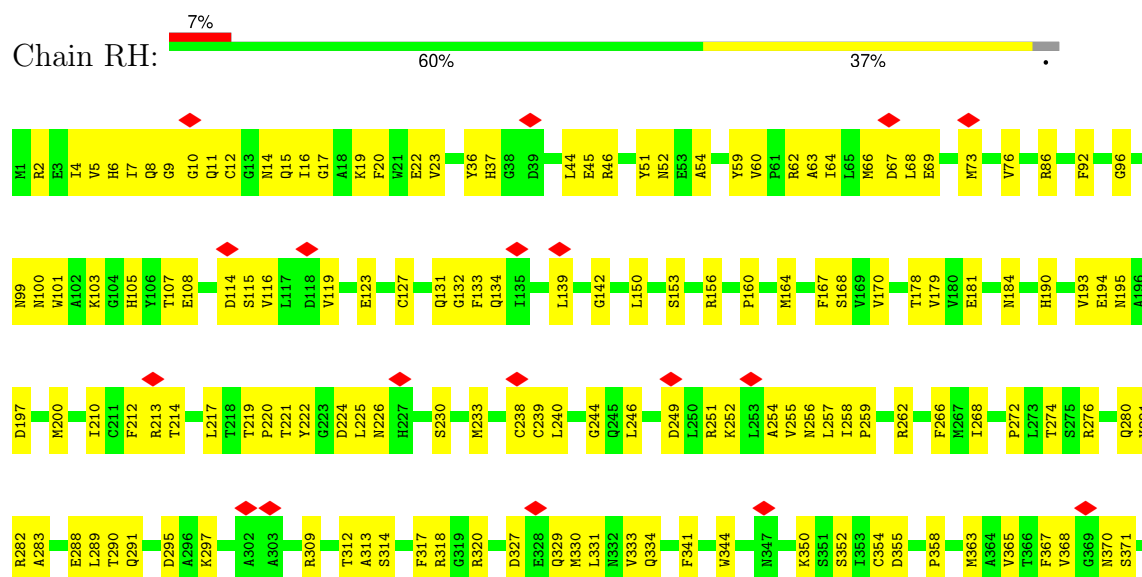


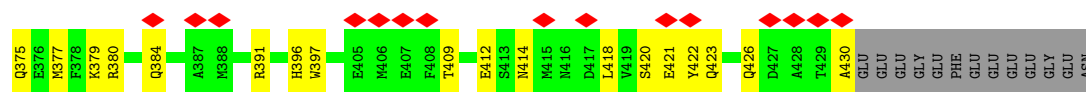


• Molecule 46: Tubulin beta chain

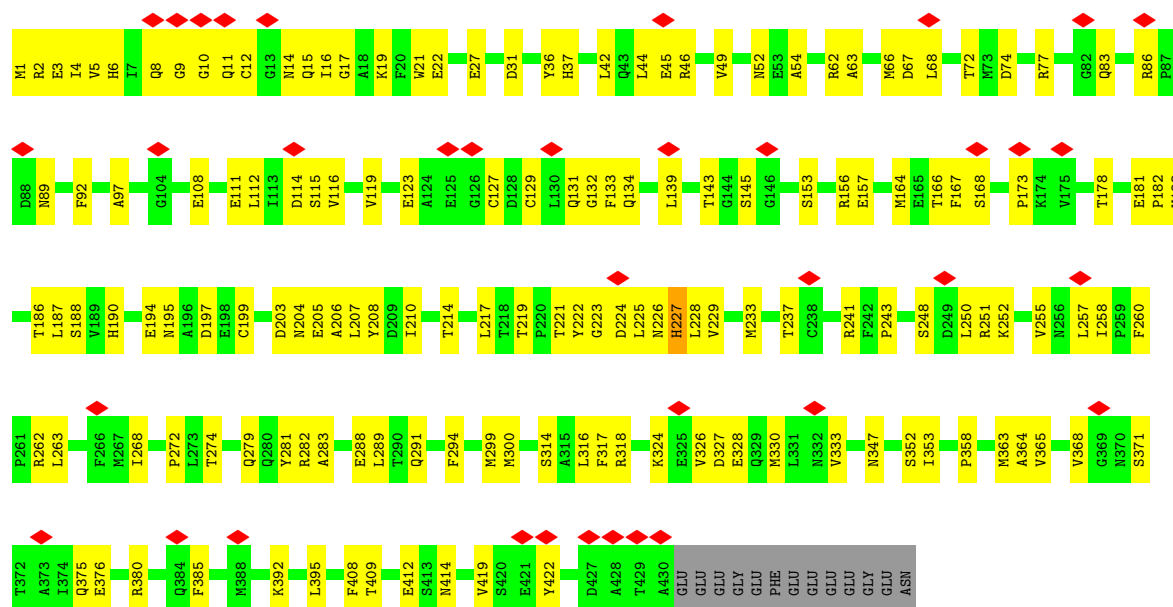


• Molecule 46: Tubulin beta chain

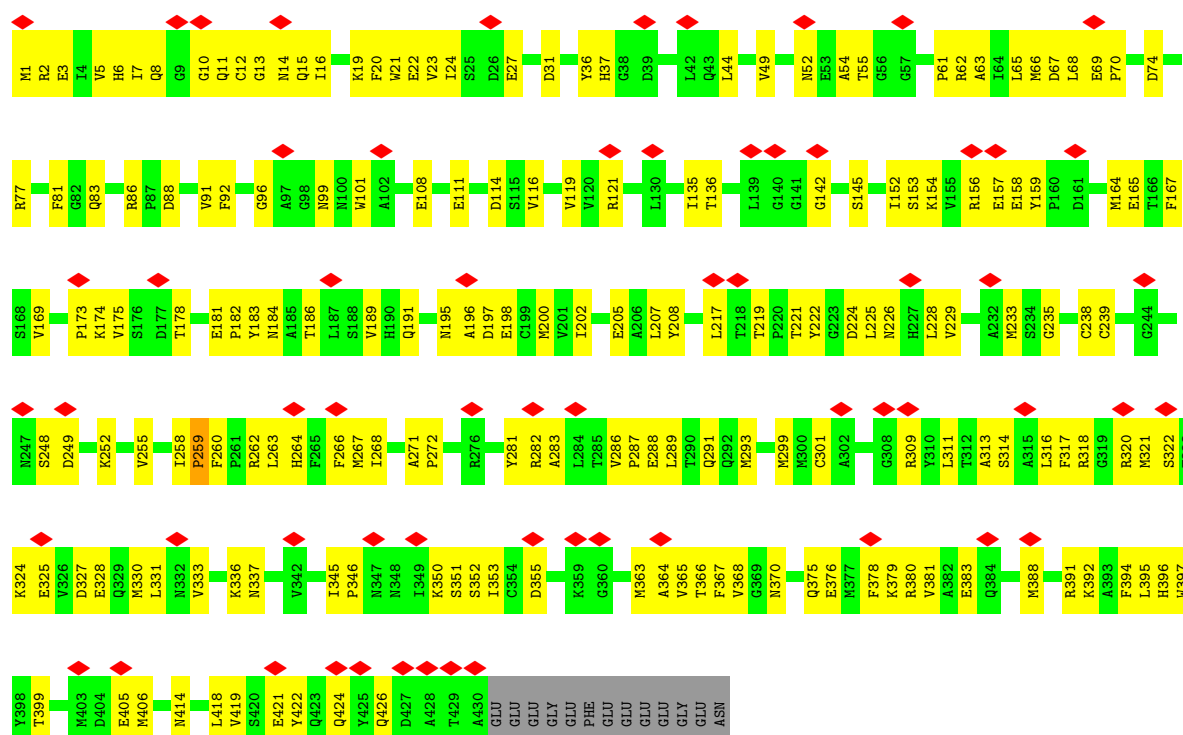


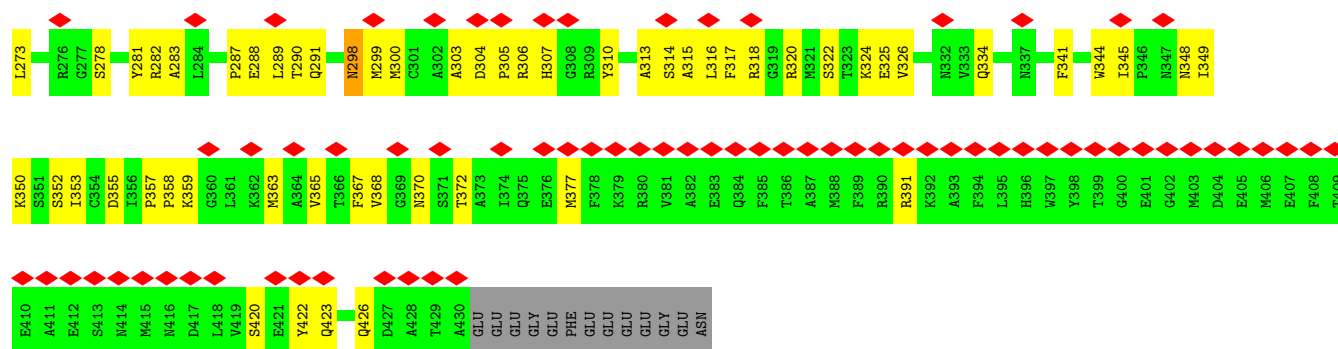


• Molecule 46: Tubulin beta chain

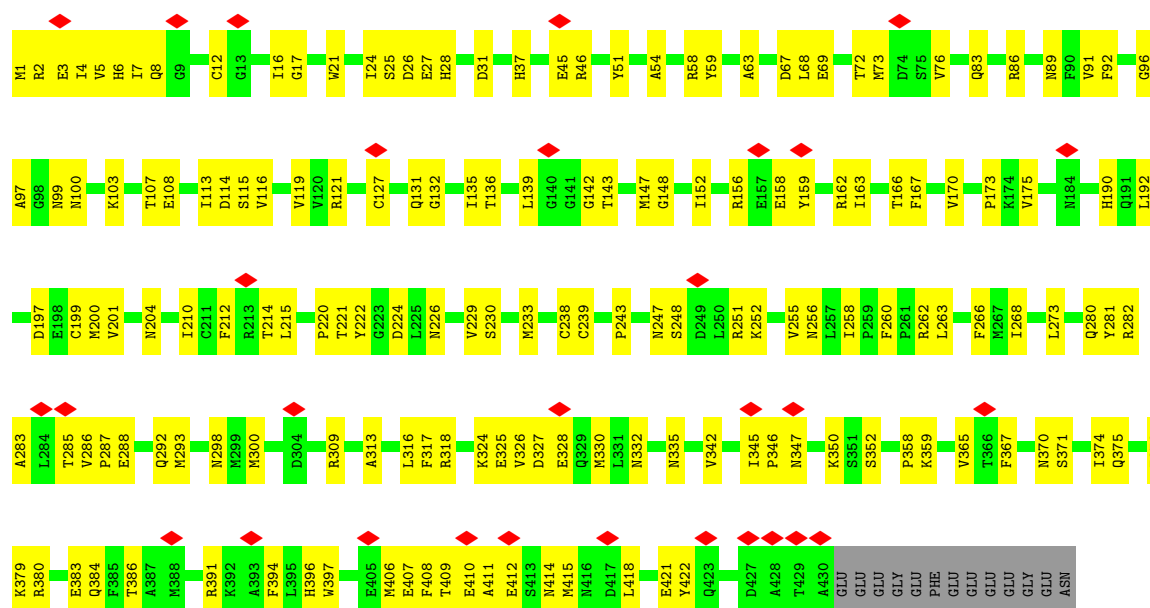


• Molecule 46: Tubulin beta chain

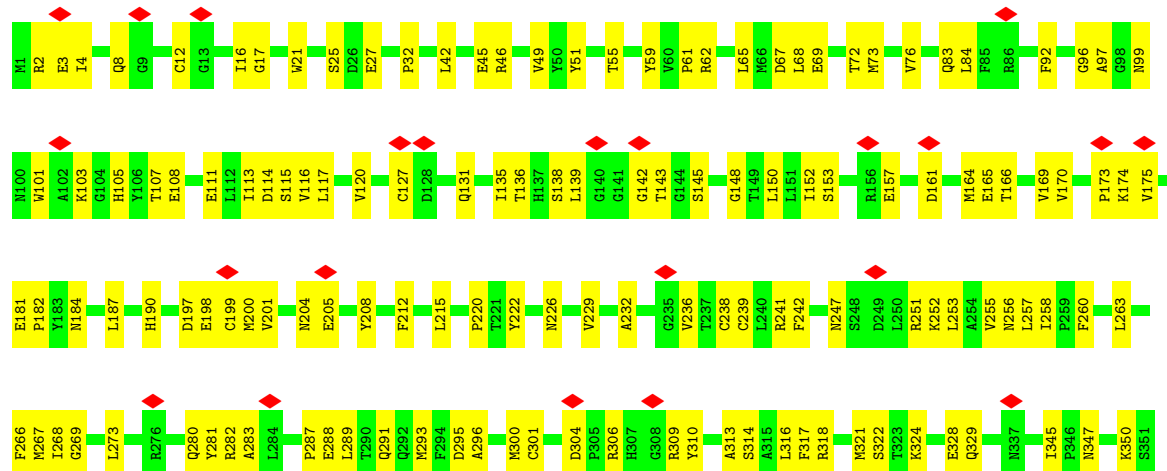


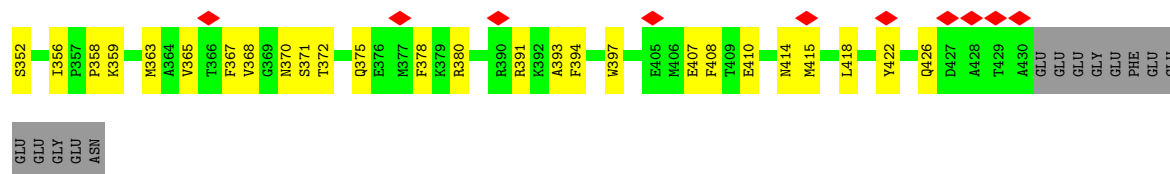


• Molecule 46: Tubulin beta chain

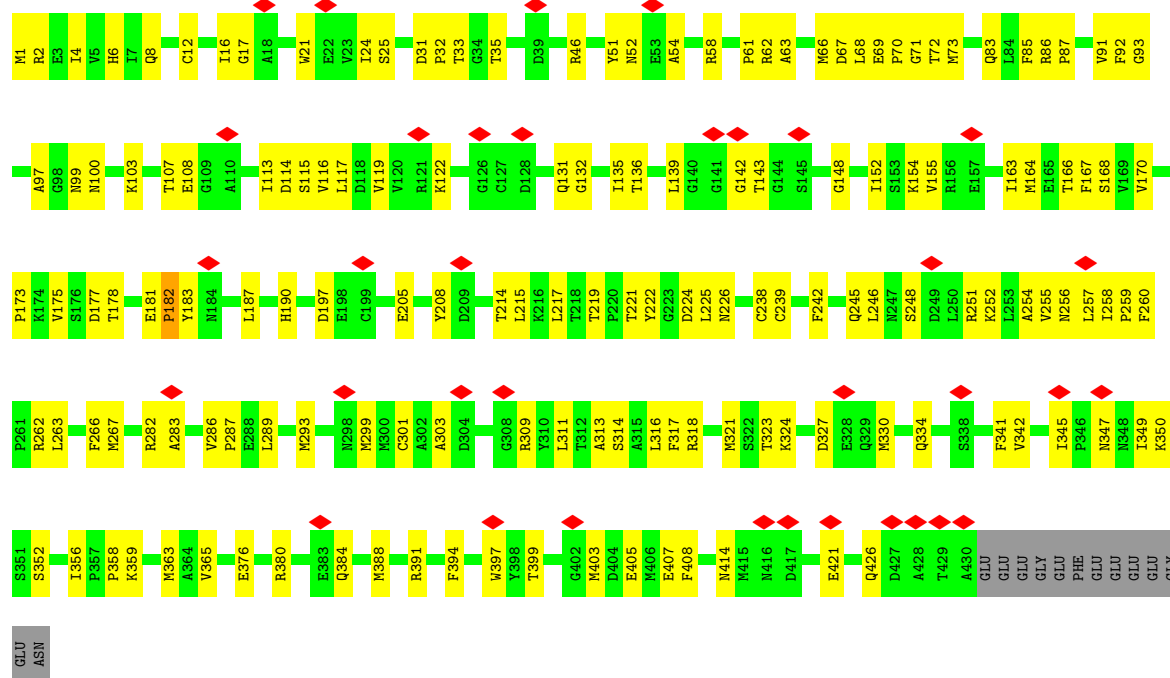


• Molecule 46: Tubulin beta chain

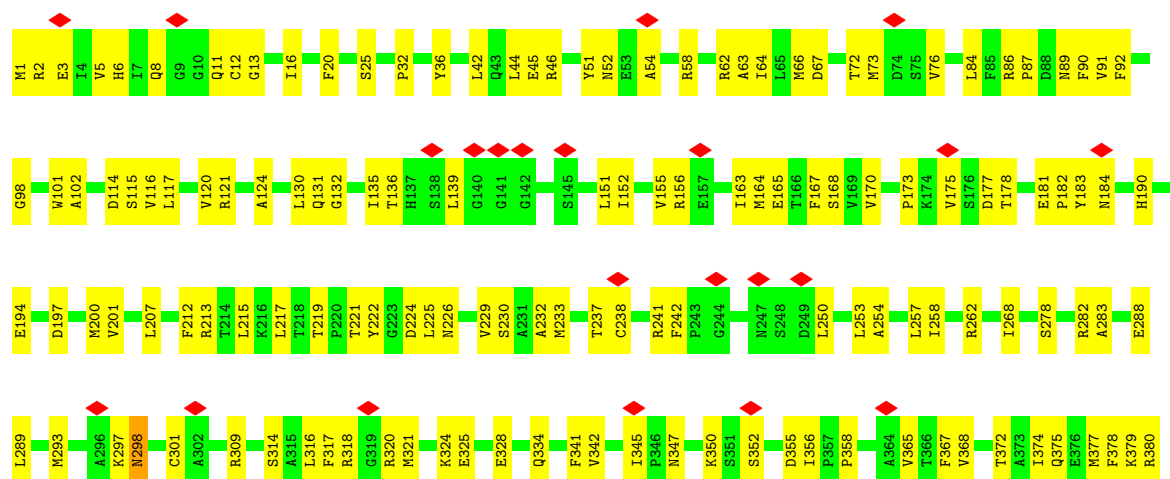


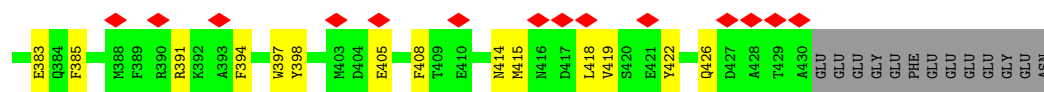


• Molecule 46: Tubulin beta chain

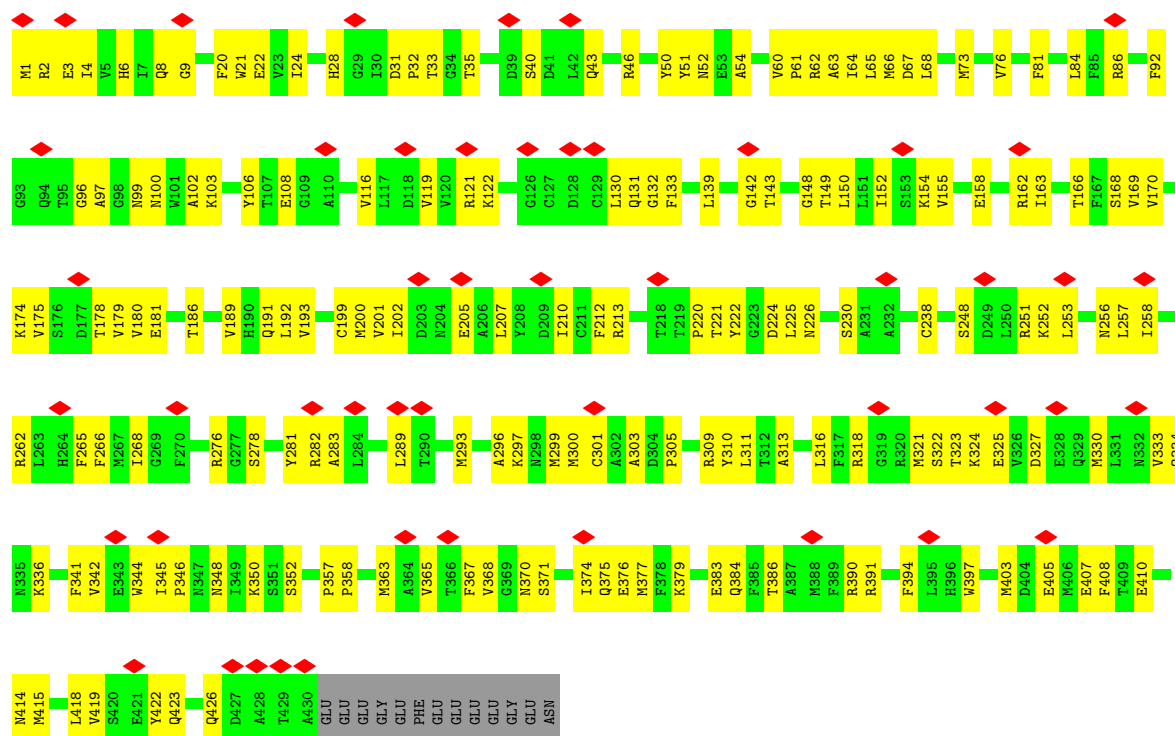


• Molecule 46: Tubulin beta chain

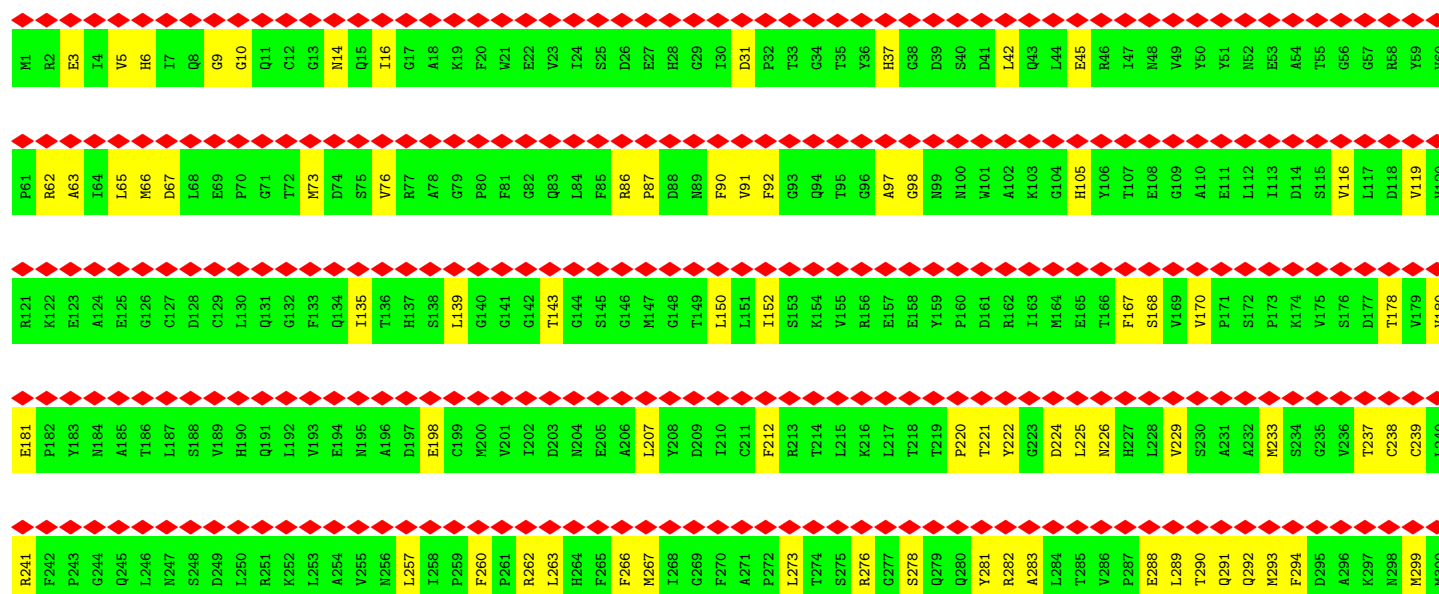
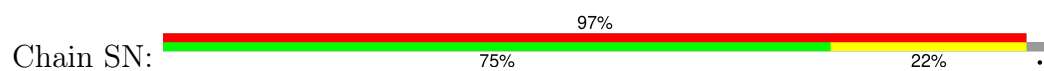


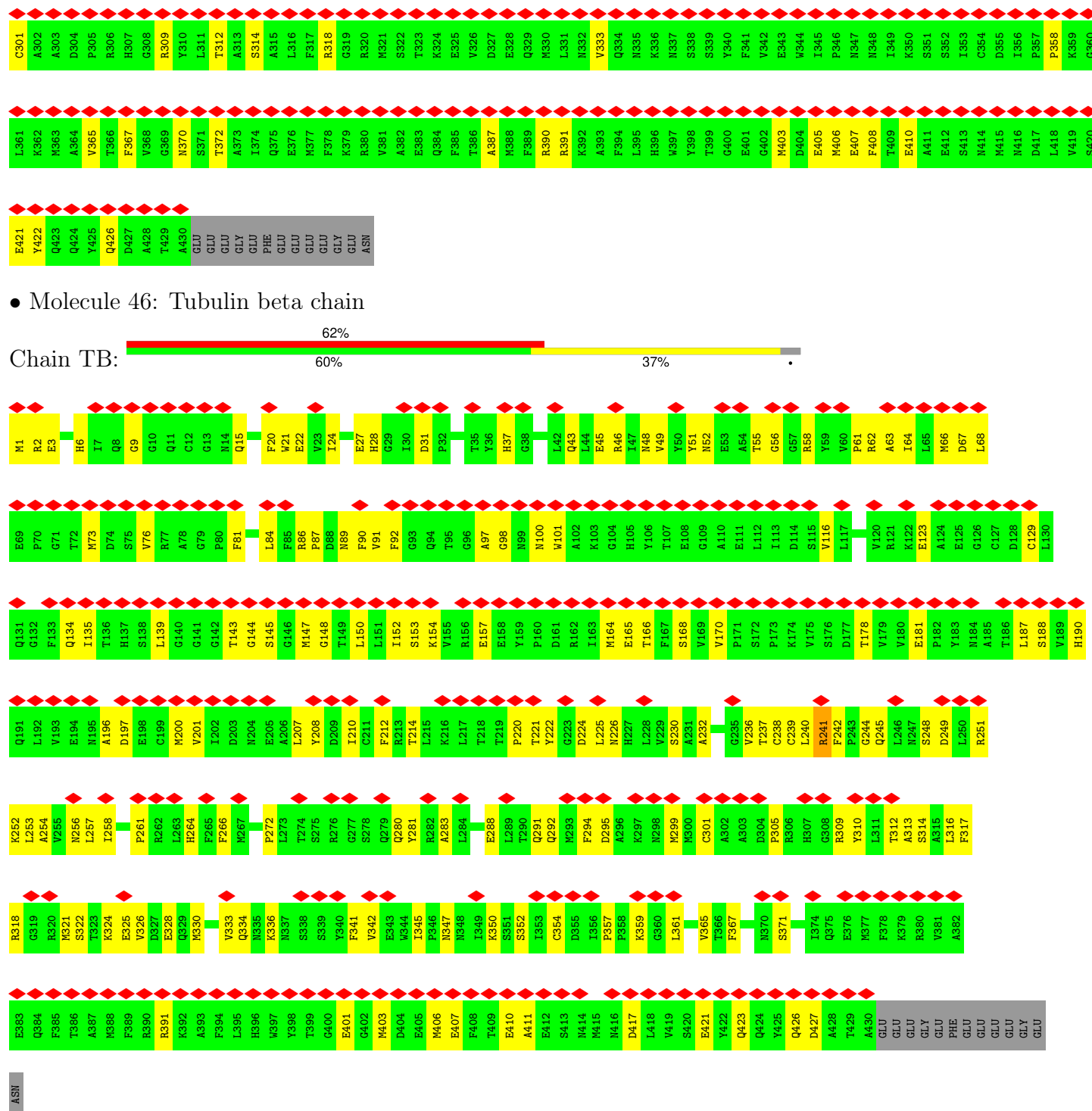


• Molecule 46: Tubulin beta chain

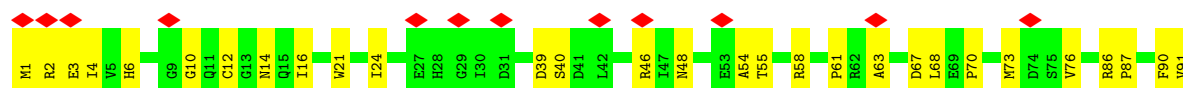


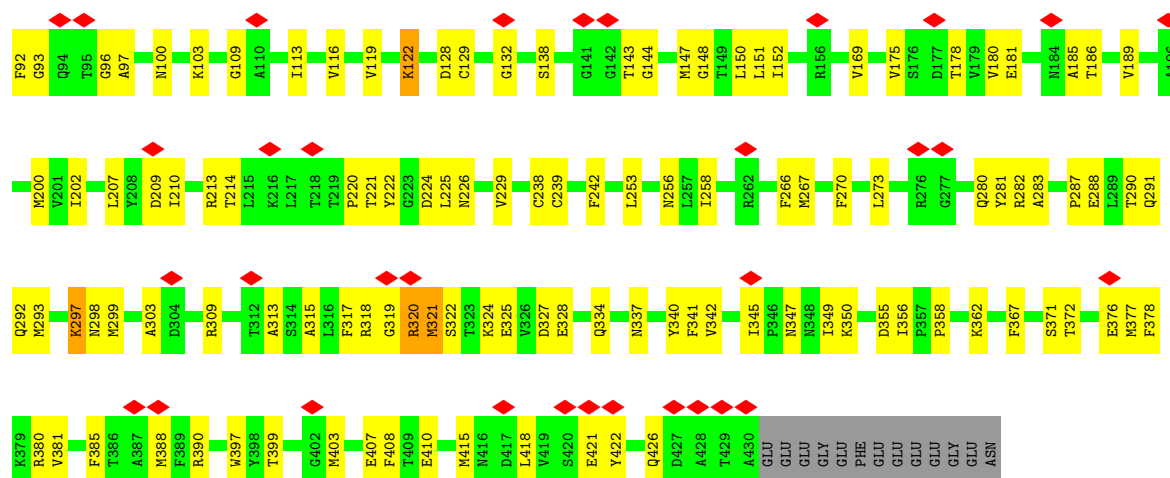
• Molecule 46: Tubulin beta chain



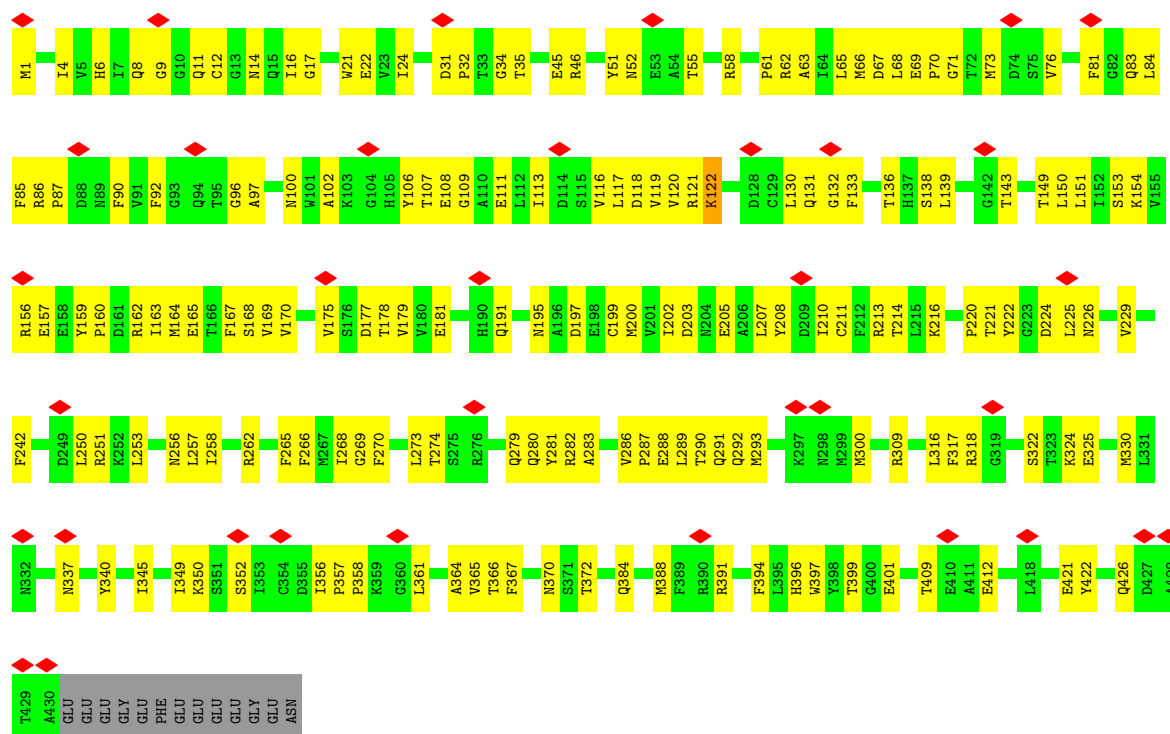


• Molecule 46: Tubulin beta chain

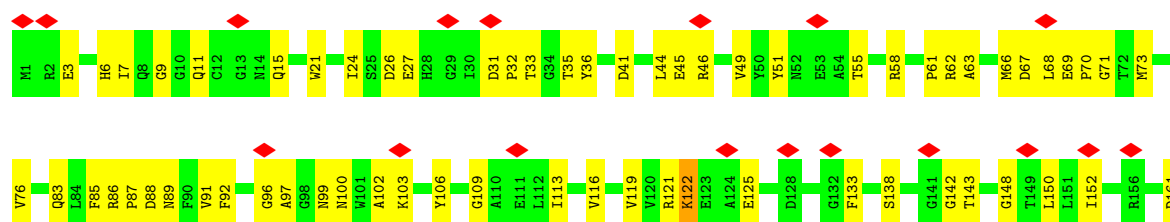


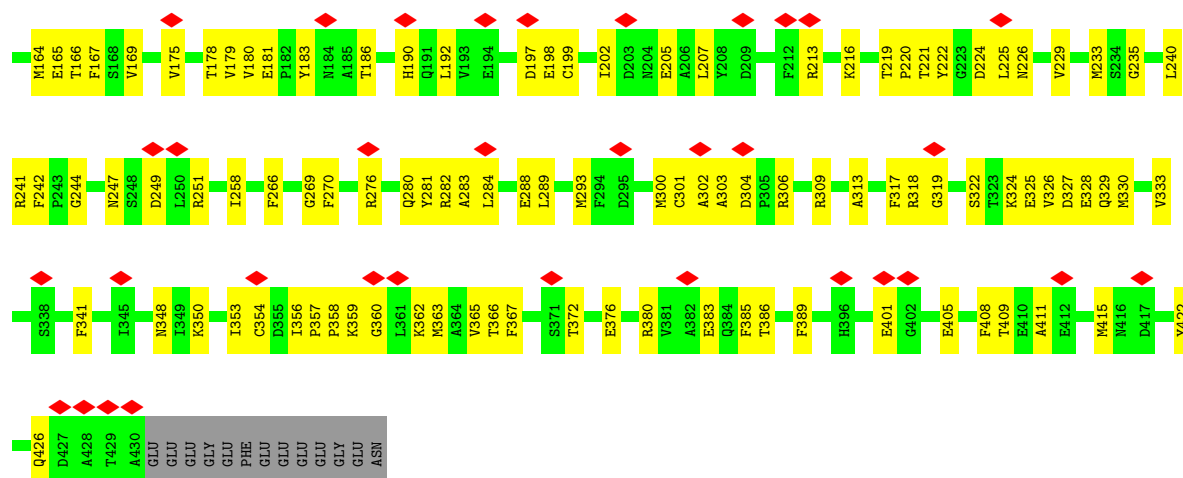


• Molecule 46: Tubulin beta chain

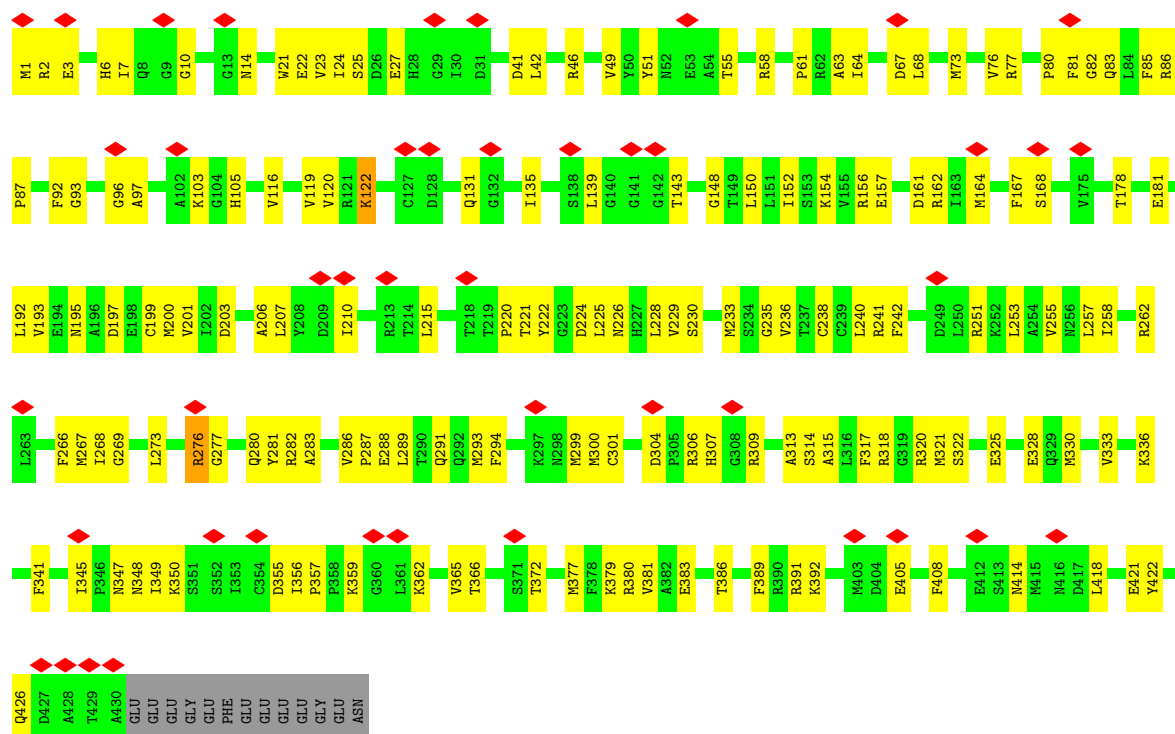


• Molecule 46: Tubulin beta chain

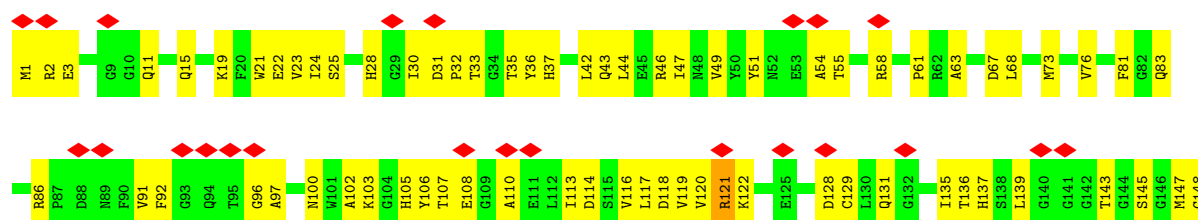


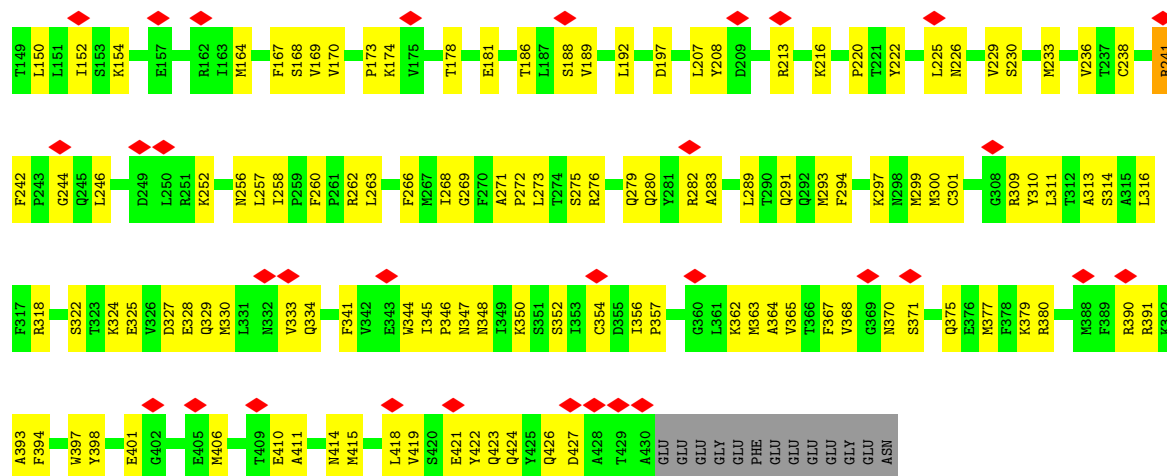


• Molecule 46: Tubulin beta chain

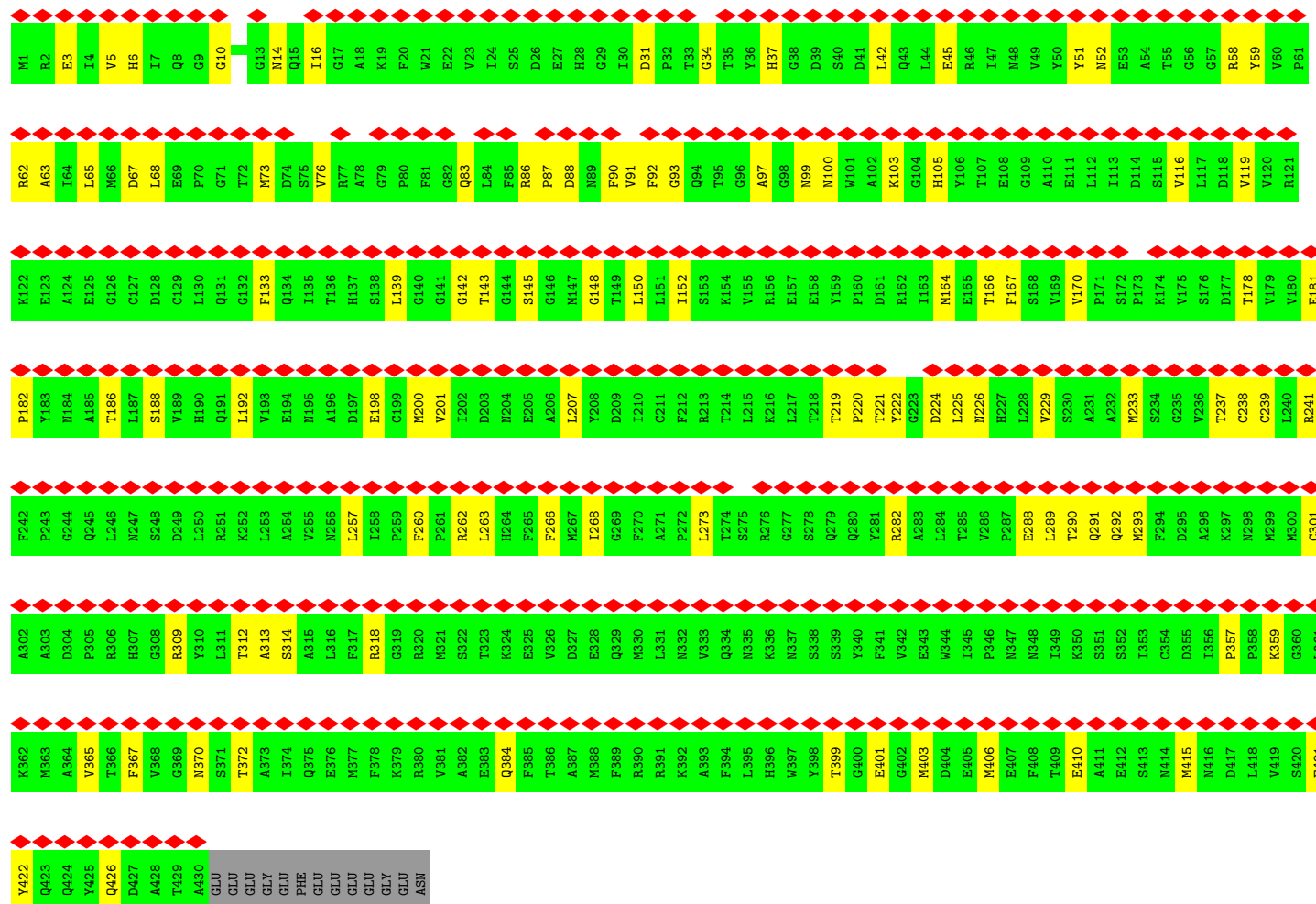
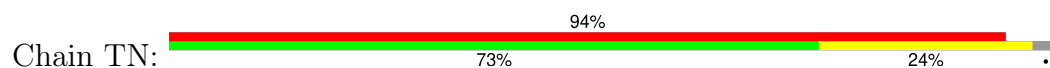


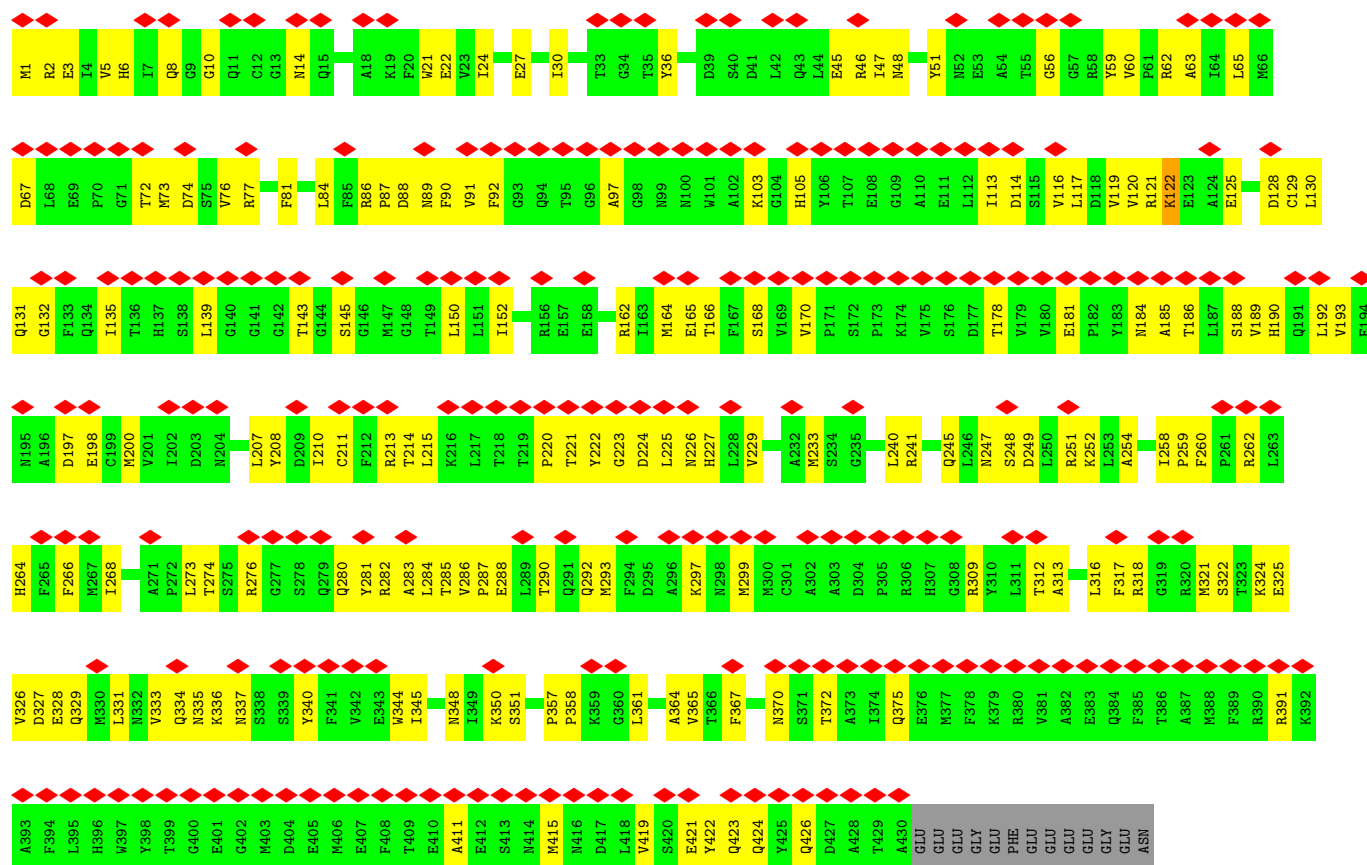
• Molecule 46: Tubulin beta chain



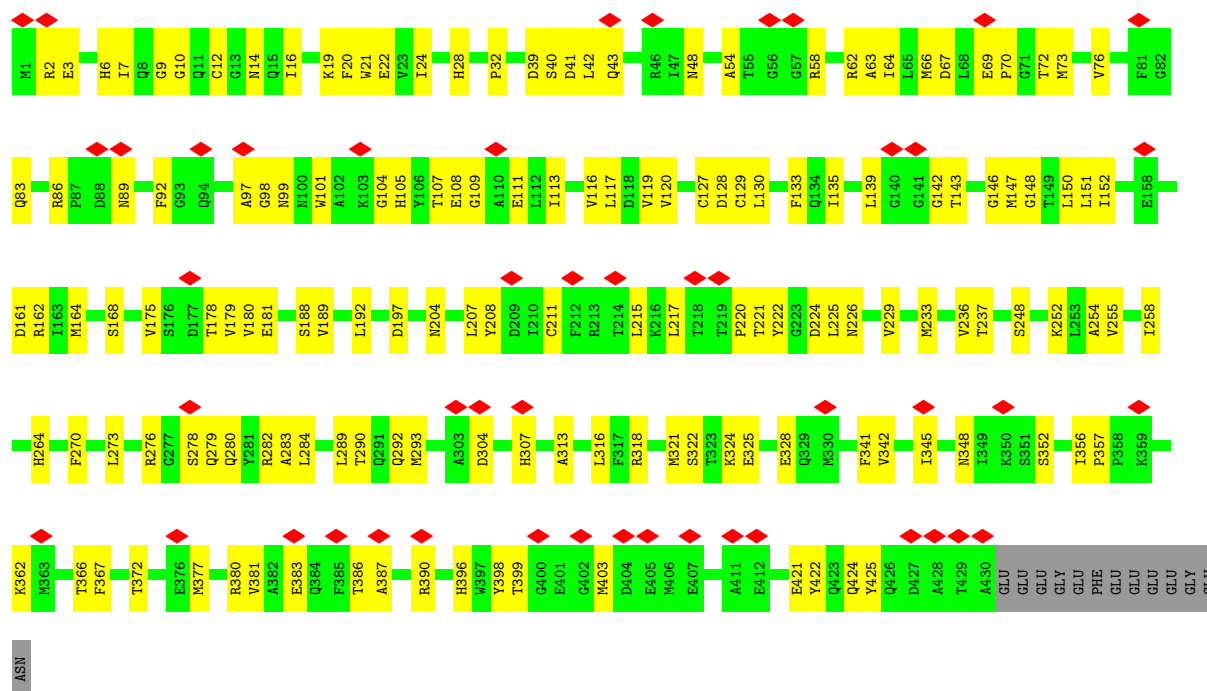


• Molecule 46: Tubulin beta chain

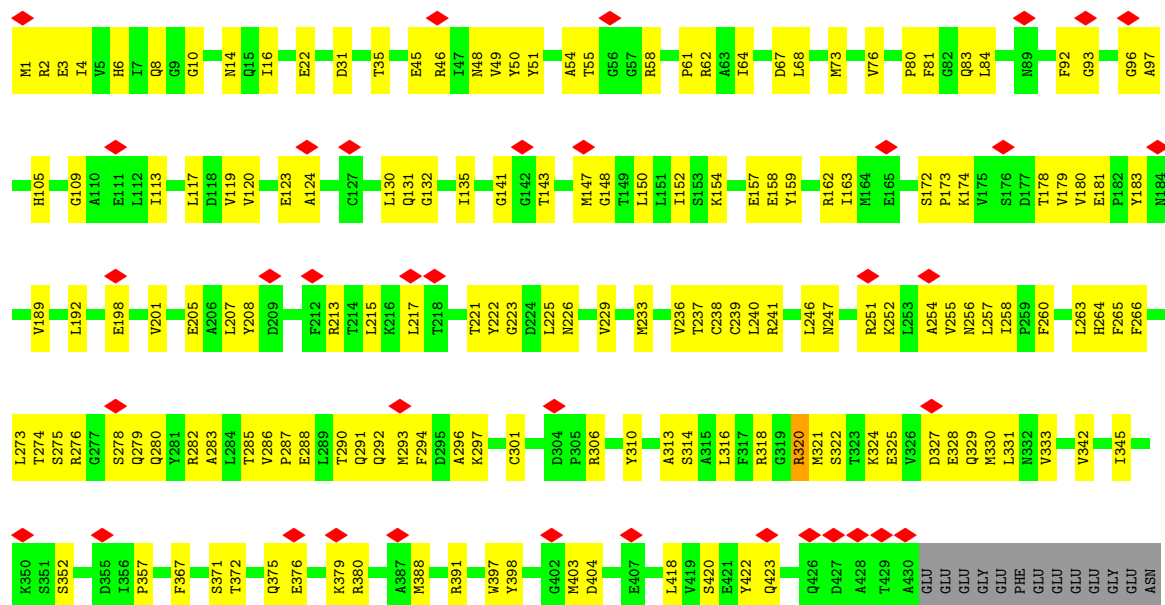




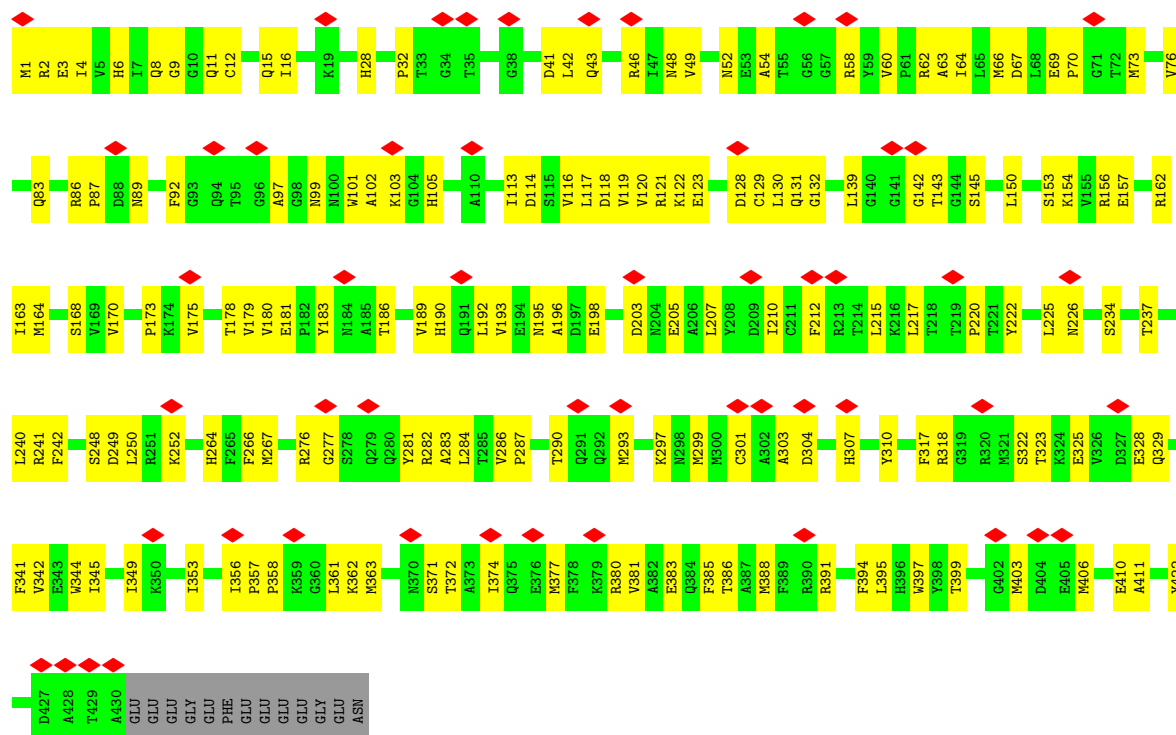
• Molecule 46: Tubulin beta chain



• Molecule 46: Tubulin beta chain

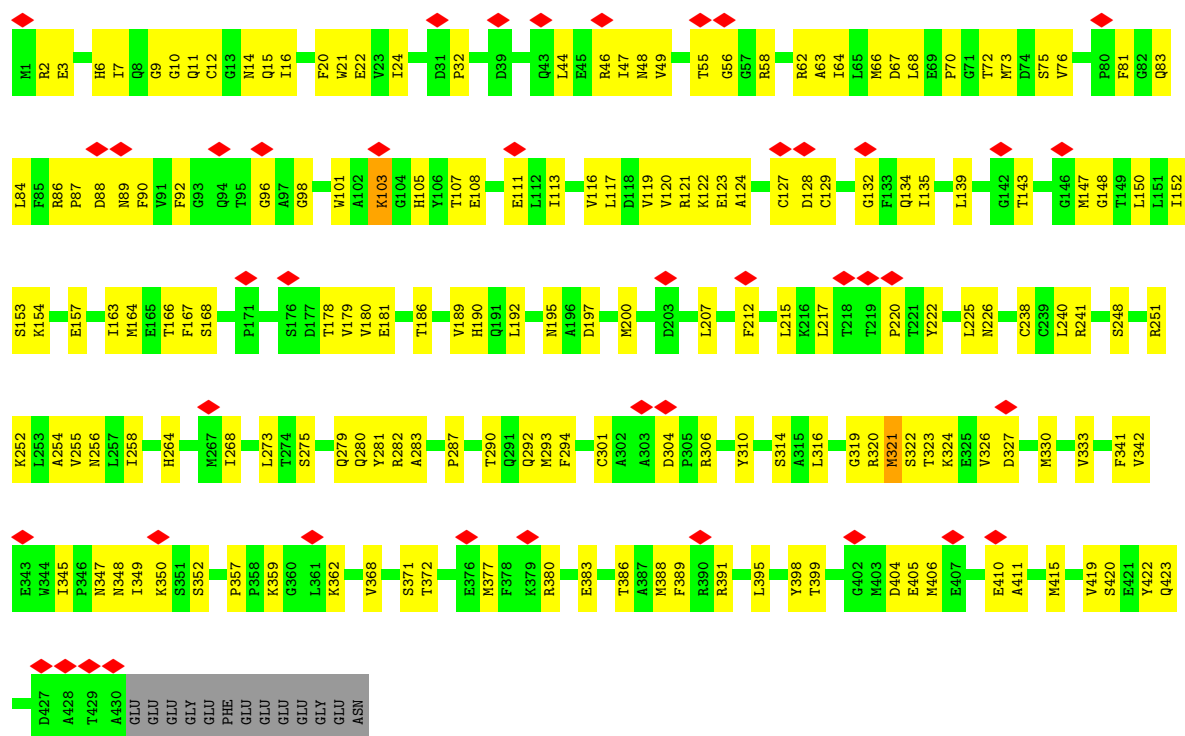
Chain UF: 

• Molecule 46: Tubulin beta chain

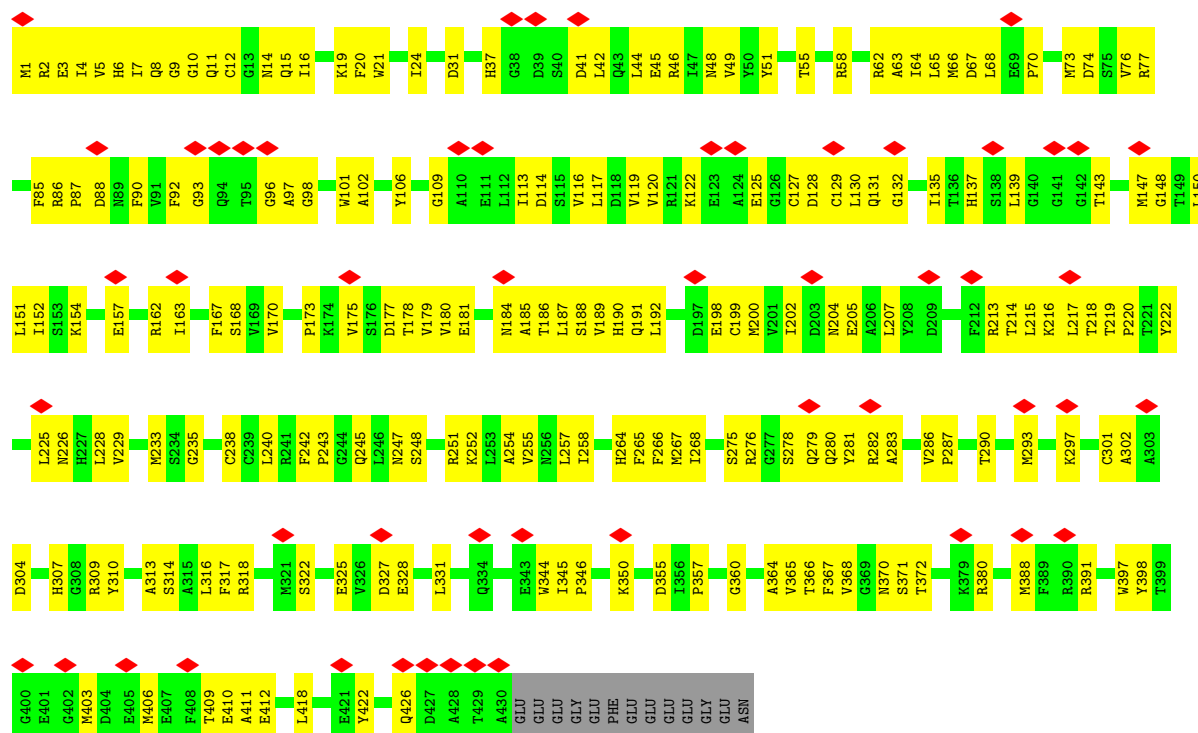
Chain UH: 

• Molecule 46: Tubulin beta chain

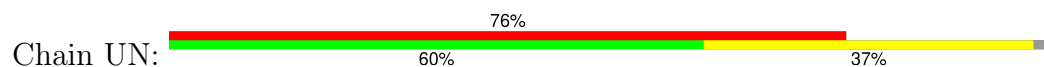
Chain UJ: 

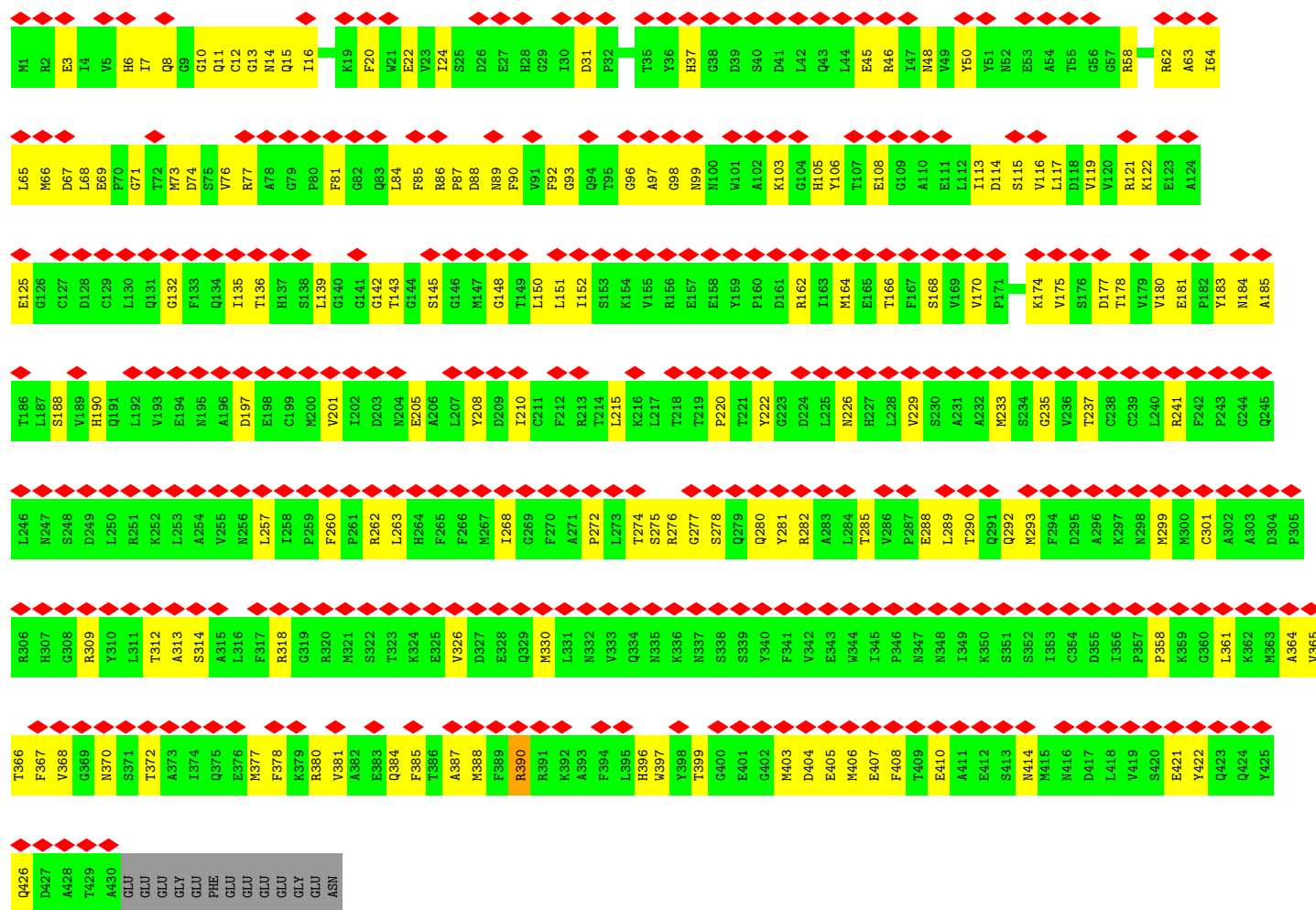


• Molecule 46: Tubulin beta chain

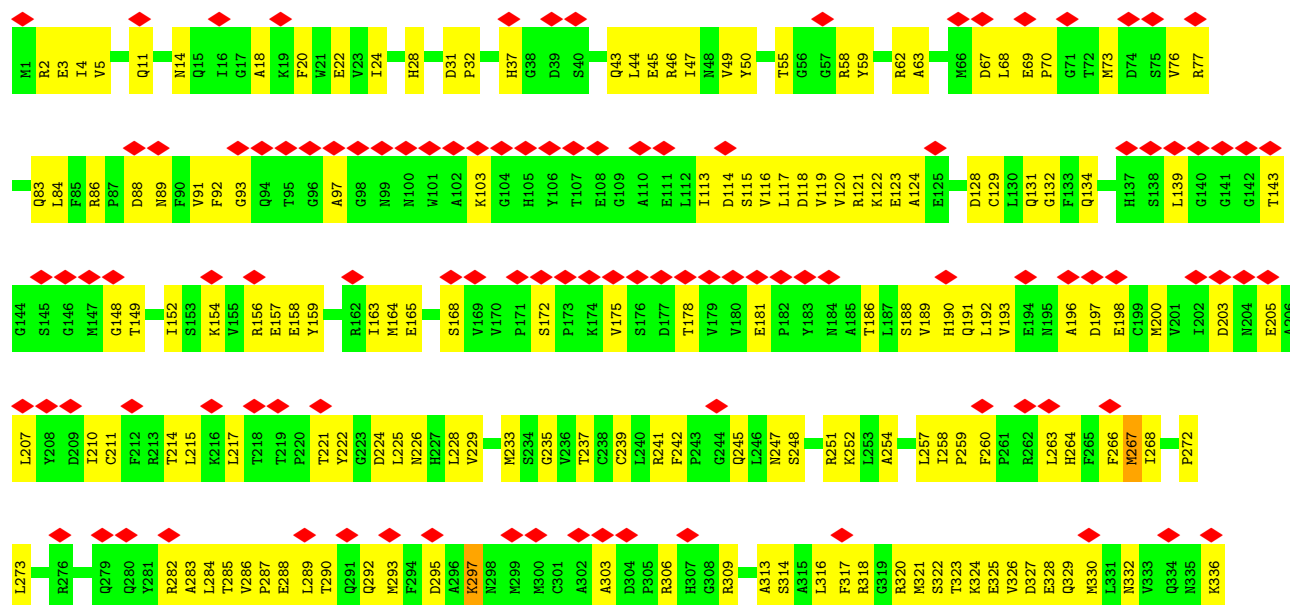
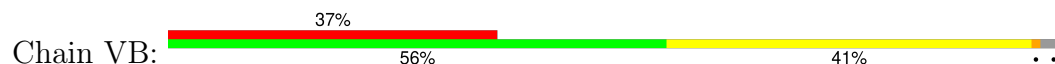


• Molecule 46: Tubulin beta chain

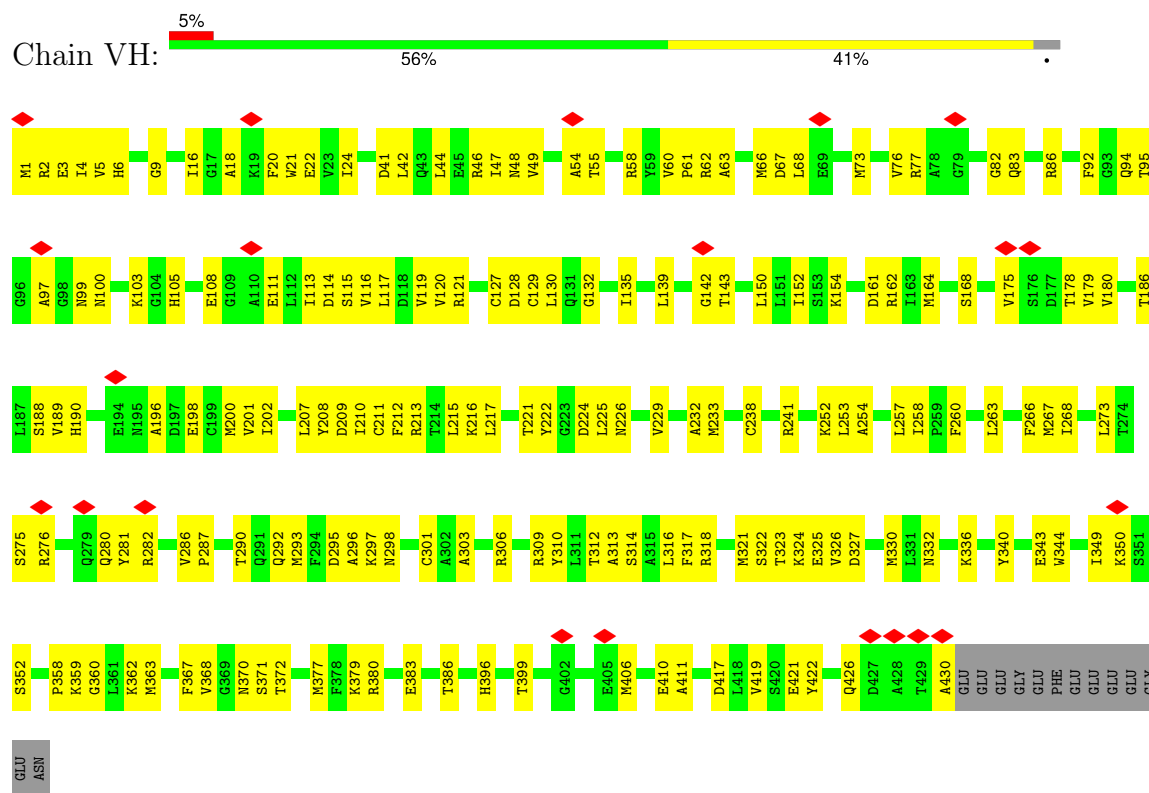




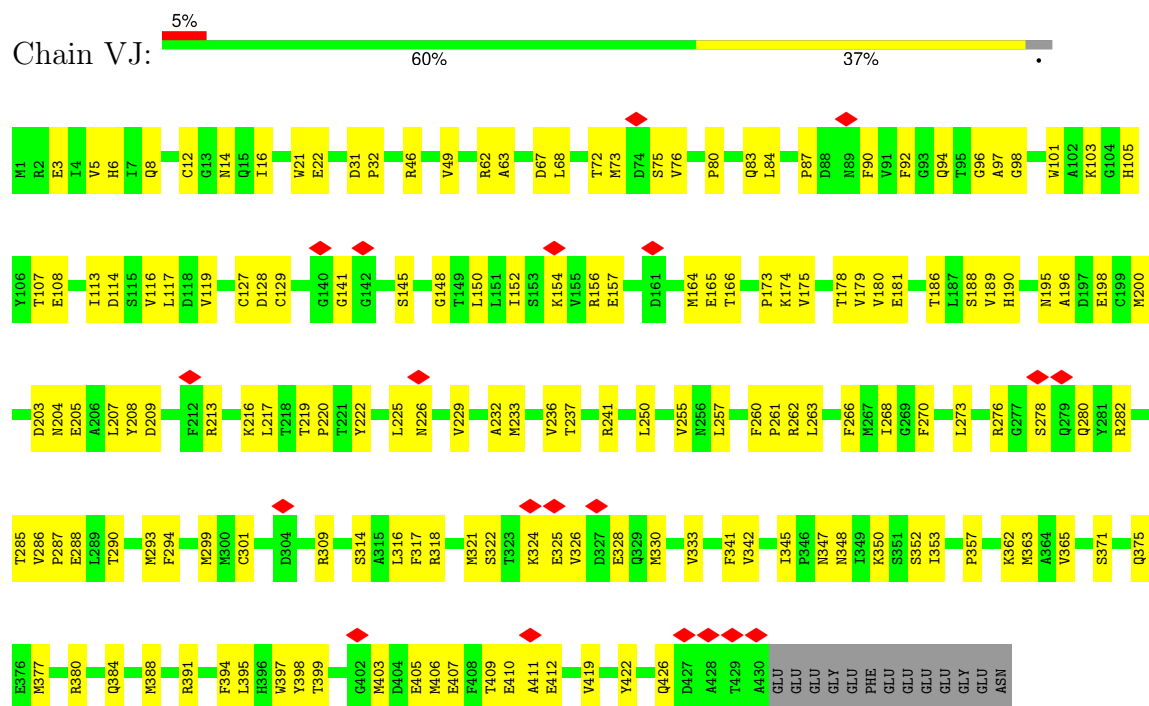
• Molecule 46: Tubulin beta chain



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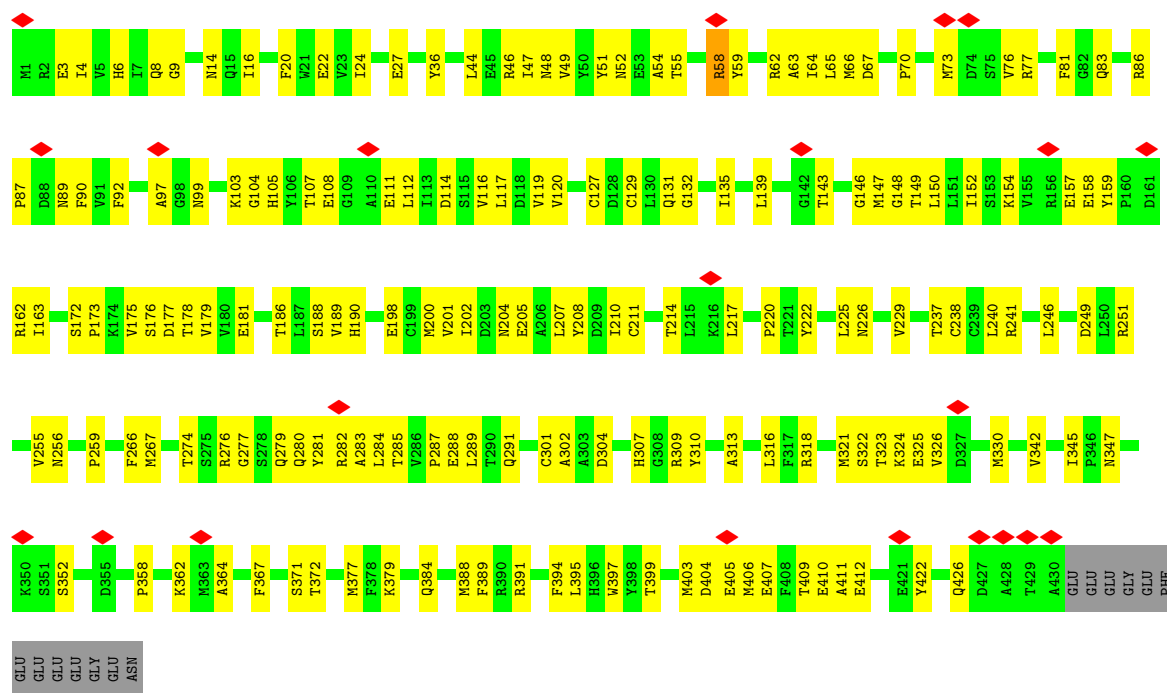


- Molecule 46: Tubulin beta chain

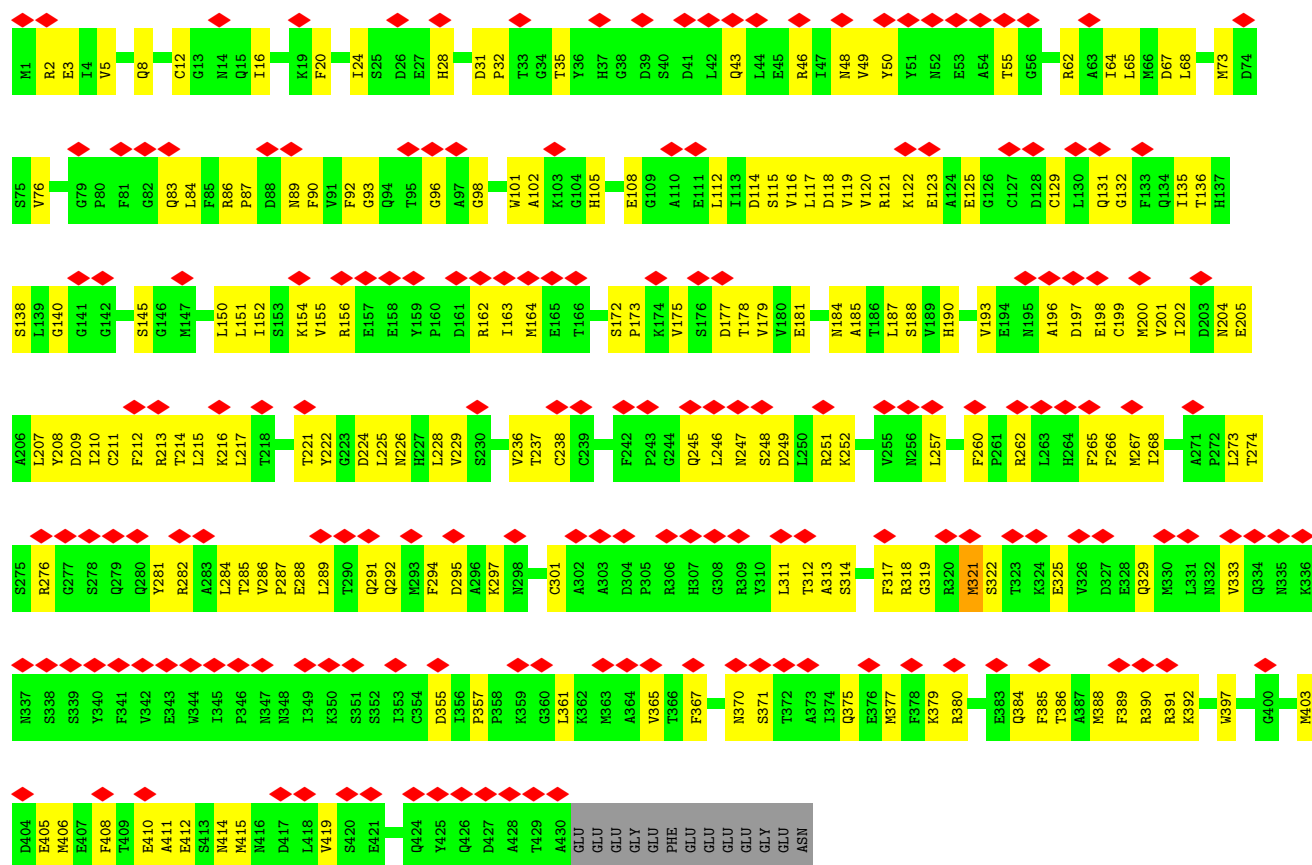
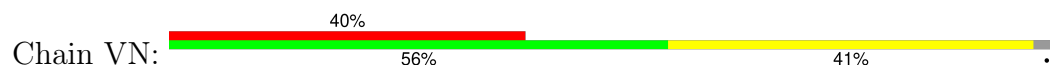


- Molecule 46: Tubulin beta chain

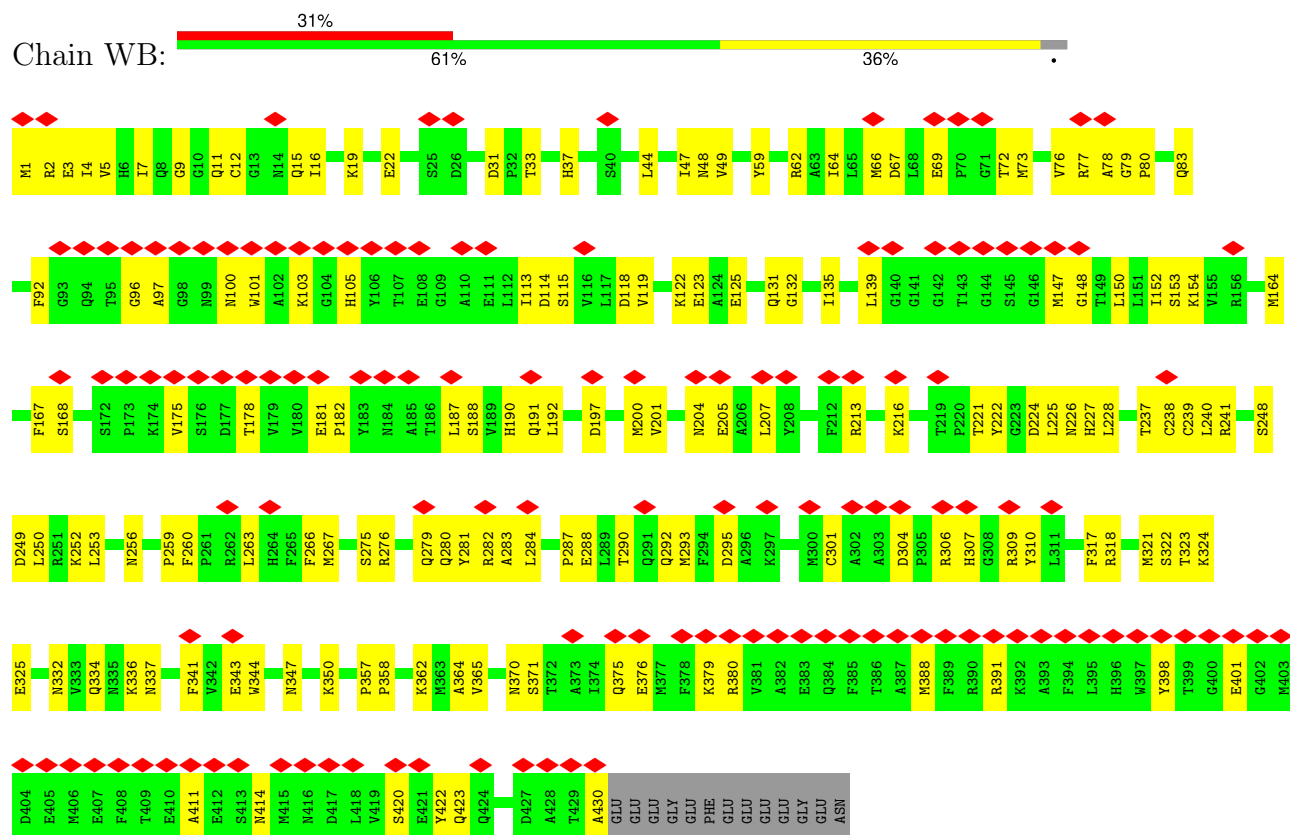




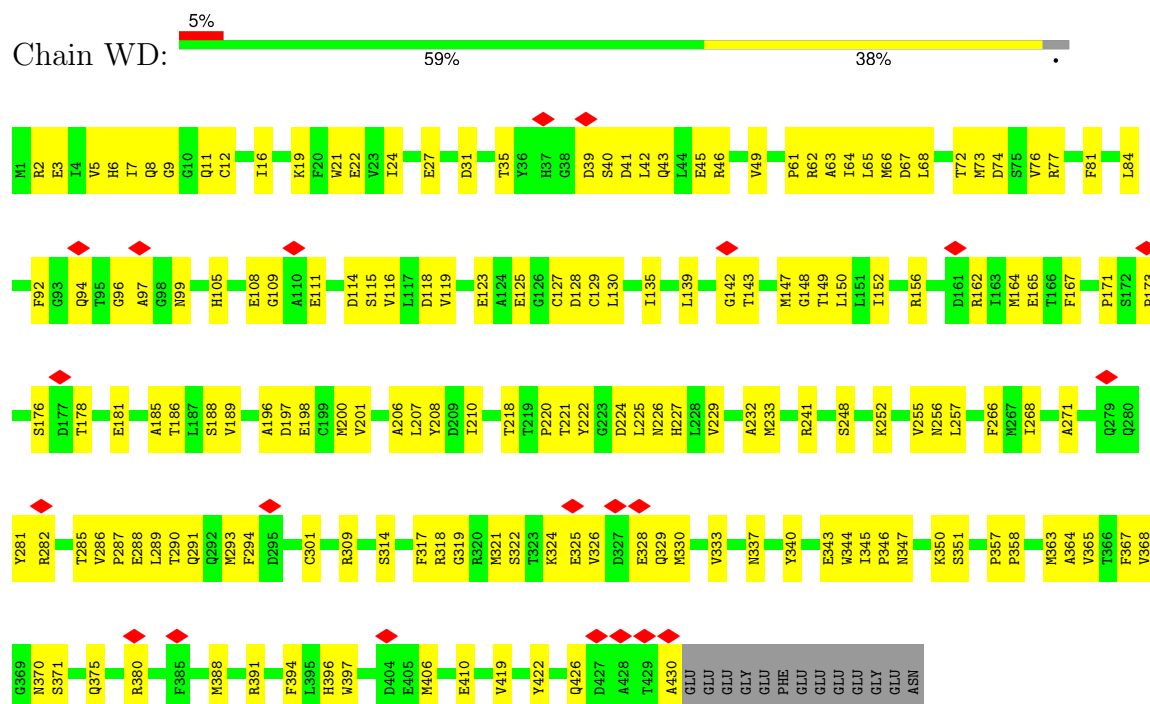
• Molecule 46: Tubulin beta chain



- Molecule 46: Tubulin beta chain

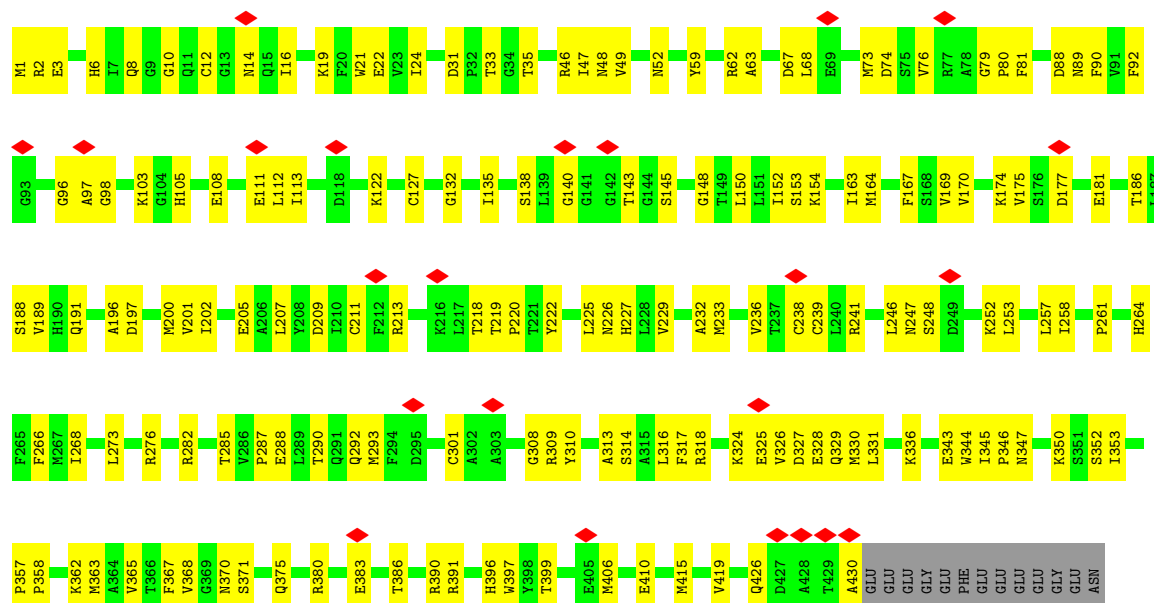


- Molecule 46: Tubulin beta chain

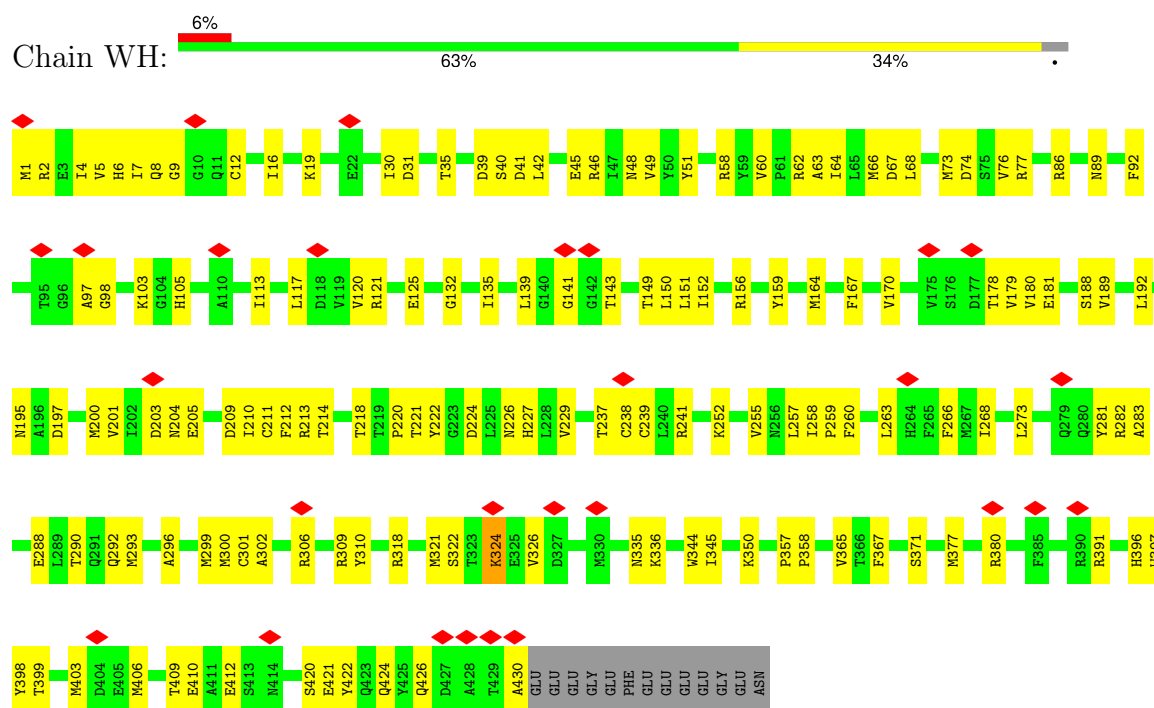


- Molecule 46: Tubulin beta chain

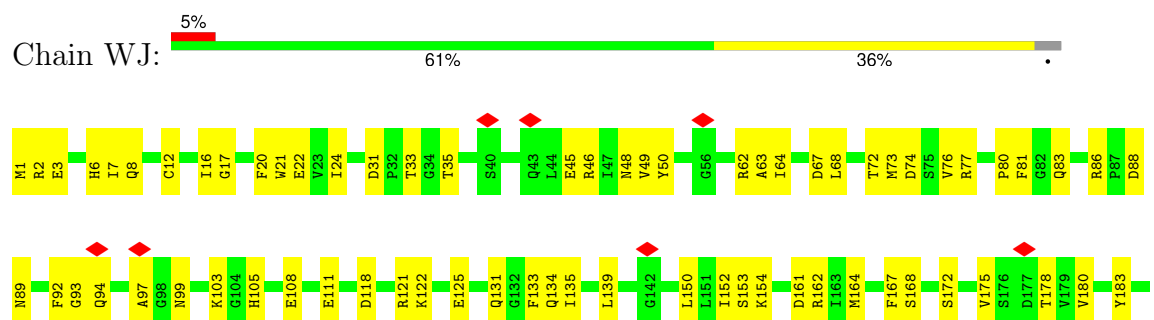


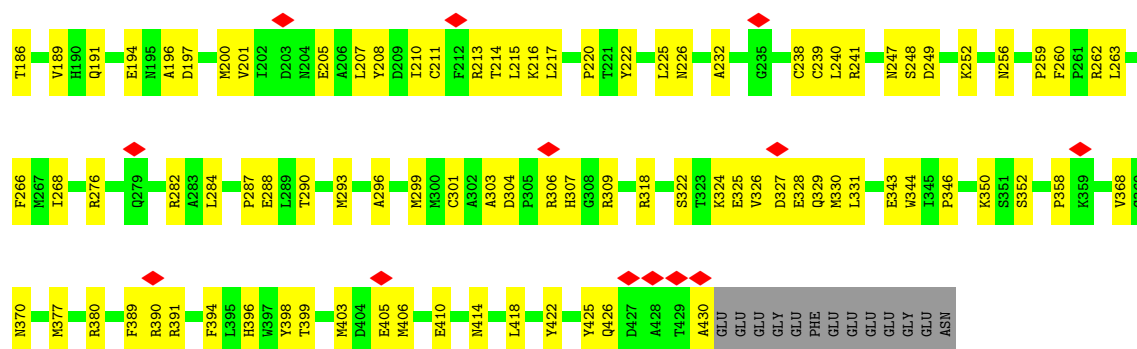


• Molecule 46: Tubulin beta chain

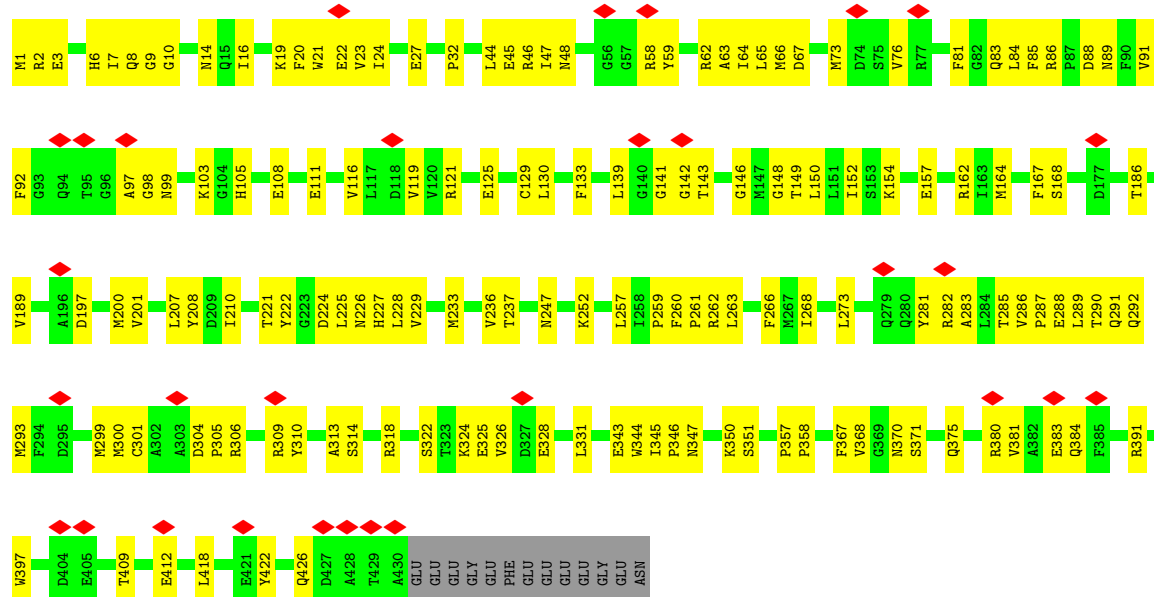


• Molecule 46: Tubulin beta chain

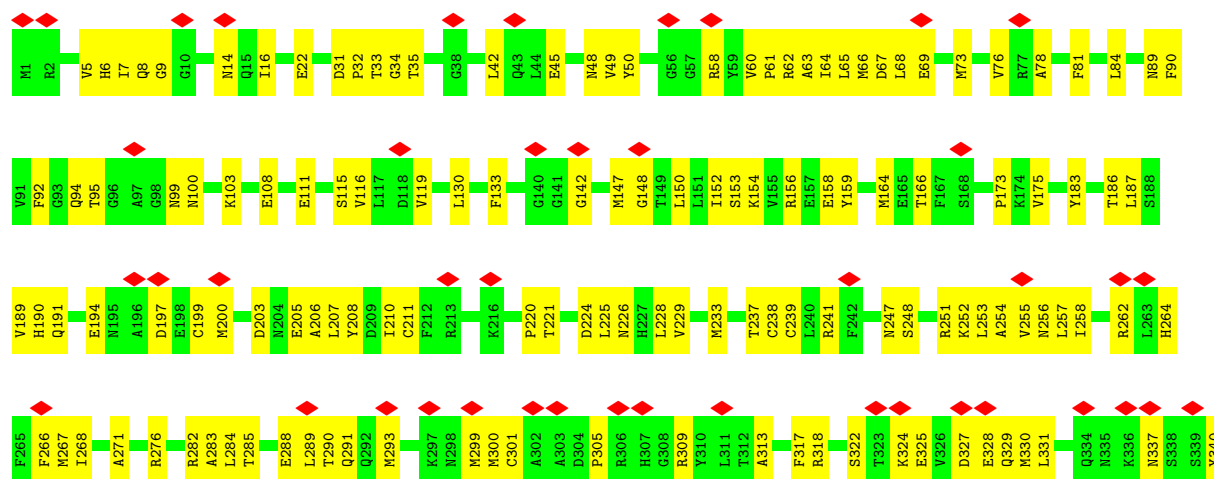


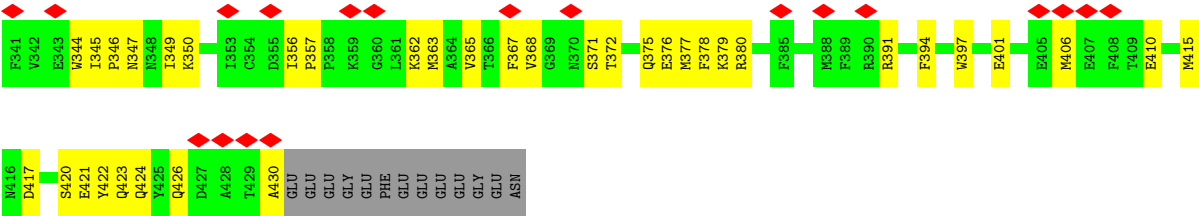


• Molecule 46: Tubulin beta chain



• Molecule 46: Tubulin beta chain





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	148365	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	45	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.356	Depositor
Minimum map value	-0.004	Depositor
Average map value	0.011	Depositor
Map value standard deviation	0.079	Depositor
Recommended contour level	0.15	Depositor
Map size (\AA)	701.44, 701.44, 701.44	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.37, 1.37, 1.37	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: GDP, MG, GTP

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	0A	0.29	0/1272	0.61	2/1730 (0.1%)
1	1A	0.29	0/1272	0.56	0/1730
1	2A	0.30	0/1272	0.62	1/1730 (0.1%)
1	3A	0.28	0/1272	0.56	0/1730
2	0B	0.28	0/2674	0.60	1/3619 (0.0%)
3	0C	0.29	0/764	0.69	1/1029 (0.1%)
3	1C	0.28	0/764	0.79	2/1029 (0.2%)
4	0D	0.28	0/1653	0.62	0/2238
4	1D	0.30	0/1653	0.64	1/2238 (0.0%)
4	2D	0.30	0/1653	0.67	0/2238
5	0E	0.29	0/1584	0.62	0/2133
5	1E	0.31	0/1584	0.64	1/2133 (0.0%)
5	2E	0.30	0/1584	0.63	1/2133 (0.0%)
5	3E	0.27	0/1584	0.57	0/2133
6	0F	0.31	0/1699	0.74	2/2294 (0.1%)
7	0G	0.28	0/1409	0.64	0/1895
7	1G	0.29	0/1136	0.65	0/1530
8	0H	0.35	0/1060	0.67	0/1404
8	1H	0.33	0/3741	0.68	2/4955 (0.0%)
9	0N	0.29	0/2355	0.53	0/3181
9	1N	0.28	0/3884	0.51	0/5240
9	2N	0.27	0/2355	0.52	0/3181
10	0Q	0.29	0/1583	0.63	0/2138
10	1Q	0.30	0/1583	0.63	0/2138
10	2Q	0.30	0/1583	0.61	0/2138
10	3Q	0.29	0/1583	0.61	0/2138
10	4Q	0.30	0/1583	0.62	0/2138
10	5Q	0.29	0/1583	0.61	0/2138
10	6Q	0.29	0/1583	0.63	0/2138
11	0S	0.26	0/2361	0.53	0/3199
11	1S	0.28	0/2361	0.56	0/3199
11	2S	0.29	0/2361	0.57	2/3199 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
11	3S	0.28	0/2361	0.54	0/3199
12	0T	0.28	0/2176	0.54	0/2931
12	1T	0.29	0/2379	0.55	0/3209
12	2T	0.30	0/2379	0.55	0/3209
12	3T	0.32	0/2379	0.55	0/3209
13	0U	0.27	0/4866	0.57	0/6583
13	1U	0.28	0/4866	0.57	1/6583 (0.0%)
13	2U	0.28	0/4866	0.58	0/6583
13	3U	0.27	0/4866	0.58	1/6583 (0.0%)
14	0V	0.25	0/1784	0.53	0/2393
14	1V	0.27	0/2213	0.59	2/2978 (0.1%)
14	2V	0.27	0/2213	0.58	1/2978 (0.0%)
14	3V	0.26	0/2213	0.55	0/2978
15	0X	0.35	0/946	0.70	1/1255 (0.1%)
15	1X	0.32	0/1216	0.66	2/1614 (0.1%)
15	2X	0.31	0/1216	0.63	1/1614 (0.1%)
15	3X	0.30	0/1216	0.60	1/1614 (0.1%)
15	4X	0.30	0/1216	0.61	0/1614
16	1B	0.29	0/4148	0.52	0/5587
16	2B	0.28	0/2483	0.54	0/3339
16	3B	0.28	0/2480	0.57	0/3333
17	1F	0.29	0/1119	0.71	1/1513 (0.1%)
18	1I	0.30	0/1574	0.63	0/2125
19	1J	0.29	0/3090	0.57	0/4148
20	1K	0.29	0/2454	0.56	0/3260
20	2K	0.30	0/2528	0.59	0/3351
21	1L	0.27	0/6961	0.59	2/9360 (0.0%)
21	2L	0.26	0/5243	0.57	2/7046 (0.0%)
21	3L	0.27	0/1685	0.61	0/2266
22	1M	0.29	0/3041	0.55	0/4100
22	2M	0.29	0/3041	0.54	0/4100
23	1O	0.46	1/2039 (0.0%)	0.66	4/2687 (0.1%)
23	2O	0.30	0/3185	0.62	0/4204
23	3O	0.29	0/2407	0.60	2/3180 (0.1%)
24	1P	0.31	0/3080	0.62	0/4069
24	2P	0.32	0/1649	0.65	0/2186
25	1R	0.28	0/4366	0.55	1/5904 (0.0%)
25	2R	0.28	0/4366	0.52	0/5904
25	3R	0.28	0/4366	0.54	0/5904
26	1W	0.29	0/1952	0.54	0/2606
26	2W	0.39	0/1008	0.74	1/1349 (0.1%)
27	2C	0.29	0/2511	0.56	0/3378
27	3C	0.27	0/2511	0.52	0/3378

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
27	4C	0.27	0/2511	0.53	0/3378
28	2F	0.31	0/766	0.60	1/1025 (0.1%)
29	2G	0.30	0/861	0.57	1/1146 (0.1%)
30	2H	0.26	0/507	0.58	0/672
30	3H	4.16	6/507 (1.2%)	0.71	2/672 (0.3%)
30	4H	0.26	0/507	0.56	0/672
31	2I	0.30	0/1178	0.60	0/1583
31	3I	0.29	0/729	0.69	0/975
32	3D	0.27	0/1878	0.49	0/2538
33	4F	0.28	0/1664	0.57	0/2251
34	4R	0.37	2/5205 (0.0%)	0.61	3/7042 (0.0%)
34	5R	0.28	0/5205	0.53	0/7042
34	6R	0.26	0/5205	0.49	0/7042
34	7R	0.26	0/5205	0.50	0/7042
35	4S	0.29	0/1572	0.53	0/2122
35	5S	0.28	0/1572	0.54	0/2122
36	5A	0.28	0/1299	0.63	1/1757 (0.1%)
36	5B	0.27	0/1299	0.61	1/1757 (0.1%)
36	5C	0.28	0/1299	0.59	1/1757 (0.1%)
36	5D	0.27	0/934	0.68	0/1265
37	5E	0.28	0/1603	0.59	0/2157
37	5F	0.30	0/1792	0.62	0/2415
37	5G	0.27	0/1792	0.57	0/2415
37	5H	0.27	0/1241	0.64	0/1677
39	6F	0.29	0/1170	0.55	0/1571
40	6G	0.30	0/1809	0.61	2/2426 (0.1%)
41	6H	0.28	0/1391	0.60	1/1858 (0.1%)
44	8R	0.39	0/1135	0.48	0/1581
45	AA	0.29	0/3480	0.54	1/4716 (0.0%)
45	AC	0.30	0/3480	0.55	1/4716 (0.0%)
45	AE	0.30	0/3480	0.53	0/4716
45	AG	0.29	0/3480	0.54	1/4716 (0.0%)
45	AI	0.29	0/3480	0.54	0/4716
45	AK	0.29	0/3480	0.53	0/4716
45	AM	0.28	0/3480	0.54	0/4716
45	BA	0.27	0/3435	0.53	0/4655
45	BC	0.29	0/3435	0.54	0/4655
45	BE	0.29	0/3435	0.55	0/4655
45	BG	0.29	0/3435	0.53	0/4655
45	BI	0.29	0/3435	0.54	0/4655
45	BK	0.29	0/3435	0.54	0/4655
45	BM	0.28	0/3435	0.54	0/4655
45	CA	0.26	0/3480	0.52	1/4716 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
45	CC	0.28	0/3480	0.54	0/4716
45	CE	0.30	0/3480	0.55	1/4716 (0.0%)
45	CG	0.29	0/3480	0.53	0/4716
45	CI	0.28	0/3480	0.54	0/4716
45	CK	0.28	0/3480	0.54	0/4716
45	CM	0.27	0/3480	0.53	0/4716
45	DA	0.25	0/3443	0.49	0/4666
45	DC	0.28	0/3460	0.56	1/4687 (0.0%)
45	DE	0.29	0/3443	0.53	0/4666
45	DG	0.28	0/3460	0.53	0/4687
45	DI	0.27	0/3443	0.52	0/4666
45	DK	0.28	0/3460	0.54	0/4687
45	DM	0.27	0/3443	0.53	0/4666
45	EA	0.25	0/3480	0.49	0/4716
45	EC	0.27	0/3480	0.54	0/4716
45	EE	0.27	0/3480	0.53	0/4716
45	EG	0.27	0/3480	0.51	0/4716
45	EI	0.26	0/3480	0.52	0/4716
45	EK	0.28	0/3480	0.54	0/4716
45	EM	0.28	0/3480	0.55	1/4716 (0.0%)
45	FA	0.27	0/3413	0.53	1/4625 (0.0%)
45	FC	0.29	0/3435	0.52	0/4655
45	FE	0.29	0/3447	0.52	0/4671
45	FG	0.29	0/3480	0.51	0/4716
45	FI	0.29	0/3443	0.51	0/4666
45	FK	0.27	0/3435	0.54	0/4655
45	FM	0.25	0/3413	0.50	0/4625
45	GA	0.27	0/3413	0.52	0/4625
45	GC	0.30	0/3429	0.54	0/4647
45	GE	0.31	0/3429	0.54	0/4647
45	GG	0.29	0/3429	0.51	0/4647
45	GI	0.30	0/3429	0.52	0/4647
45	GK	0.29	0/3480	0.54	1/4716 (0.0%)
45	GM	0.24	0/3413	0.49	0/4625
45	HA	0.28	0/3427	0.55	0/4644
45	HC	0.29	0/3427	0.51	0/4644
45	HE	0.30	0/3427	0.53	0/4644
45	HG	0.30	0/3427	0.52	0/4644
45	HI	0.30	0/3427	0.52	0/4644
45	HK	0.30	0/3427	0.54	0/4644
45	HM	0.25	0/3427	0.48	0/4644
45	IA	0.29	0/3435	0.55	1/4655 (0.0%)
45	IC	0.30	0/3480	0.55	0/4716

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
45	IE	0.30	0/3435	0.53	0/4655
45	IG	0.29	0/3480	0.54	0/4716
45	II	0.32	0/3480	0.54	0/4716
45	IK	0.30	0/3435	0.53	0/4655
45	IM	0.27	0/3435	0.53	0/4655
45	JA	0.29	0/3435	0.54	1/4655 (0.0%)
45	JC	0.29	0/3447	0.53	0/4671
45	JE	0.29	0/3480	0.52	0/4716
45	JG	0.29	0/3480	0.53	0/4716
45	JI	0.29	0/3476	0.53	0/4710
45	JK	0.30	0/3480	0.56	0/4716
45	JM	0.27	0/3435	0.54	0/4655
45	KA	0.27	0/3447	0.51	0/4671
45	KC	0.28	0/3443	0.53	0/4666
45	KE	0.29	0/3456	0.52	0/4682
45	KG	0.29	0/3480	0.53	0/4716
45	KI	0.30	0/3480	0.54	0/4716
45	KK	0.29	0/3480	0.54	0/4716
45	KM	0.27	0/3447	0.51	0/4671
45	LA	0.29	0/3480	0.54	0/4716
45	LC	0.28	0/3480	0.53	0/4716
45	LE	0.29	0/3471	0.53	0/4702
45	LG	0.28	0/3480	0.52	0/4716
45	LI	0.29	0/3452	0.52	0/4677
45	LK	0.29	0/3480	0.53	0/4716
45	LM	0.28	0/3480	0.52	0/4716
45	MA	0.29	0/3463	0.53	1/4692 (0.0%)
45	MC	0.30	0/3439	0.52	0/4660
45	ME	0.30	0/3443	0.53	0/4666
45	MG	0.29	0/3471	0.53	0/4703
45	MI	0.29	0/3480	0.53	0/4716
45	MK	0.30	0/3455	0.53	0/4681
45	MM	0.28	0/3463	0.52	0/4692
45	NA	0.28	0/3480	0.55	0/4716
45	NC	0.28	0/3435	0.53	0/4655
45	NE	0.28	0/3480	0.52	0/4716
45	NG	0.28	0/3435	0.51	0/4655
45	NI	0.28	0/3480	0.52	0/4716
45	NK	0.28	0/3435	0.54	0/4655
45	NM	0.27	0/3480	0.54	0/4716
45	OA	0.27	0/3439	0.54	0/4660
45	OC	0.29	0/3439	0.53	0/4660
45	OE	0.29	0/3439	0.54	0/4660

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
45	OG	0.27	0/3439	0.51	0/4660
45	OI	0.28	0/3439	0.53	0/4660
45	OK	0.28	0/3439	0.53	0/4660
45	OM	0.27	0/3439	0.55	0/4660
45	PA	0.27	0/3413	0.53	0/4625
45	PC	0.27	0/3413	0.53	0/4625
45	PE	0.28	0/3413	0.53	0/4625
45	PG	0.28	0/3413	0.53	0/4625
45	PI	0.28	0/3413	0.53	0/4625
45	PK	0.27	0/3413	0.52	0/4625
45	PM	0.28	0/3413	0.55	0/4625
45	QA	0.26	0/3427	0.53	1/4644 (0.0%)
45	QC	0.27	0/3427	0.53	0/4644
45	QE	0.27	0/3427	0.52	0/4644
45	QG	0.28	0/3427	0.55	0/4644
45	QI	0.28	0/3427	0.52	0/4644
45	QK	0.28	0/3427	0.53	0/4644
45	QM	0.26	0/3427	0.53	0/4644
45	RA	0.25	0/3427	0.50	0/4644
45	RC	0.27	0/3427	0.52	0/4644
45	RE	0.34	1/3427 (0.0%)	0.59	5/4644 (0.1%)
45	RG	0.27	0/3427	0.52	0/4644
45	RI	0.28	0/3427	0.51	0/4644
45	RK	0.28	0/3427	0.53	0/4644
45	RM	0.26	0/3427	0.53	0/4644
45	SA	0.25	0/3421	0.49	0/4636
45	SC	0.27	0/3421	0.52	0/4636
45	SE	0.28	0/3421	0.52	0/4636
45	SG	0.28	0/3421	0.53	0/4636
45	SI	0.28	0/3421	0.52	0/4636
45	SK	0.28	0/3421	0.53	0/4636
45	SM	0.26	0/3421	0.53	0/4636
45	TA	0.25	0/3421	0.48	0/4636
45	TC	0.28	0/3421	0.54	0/4636
45	TE	0.30	0/3421	0.55	0/4636
45	TG	0.27	0/3421	0.53	1/4636 (0.0%)
45	TI	0.28	0/3421	0.52	0/4636
45	TK	0.28	0/3421	0.52	0/4636
45	TM	0.28	0/3421	0.54	0/4636
45	UA	2.24	6/3427 (0.2%)	0.52	1/4644 (0.0%)
45	UC	0.27	0/3427	0.52	0/4644
45	UE	0.28	0/3427	0.54	0/4644
45	UG	0.27	0/3427	0.53	0/4644

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
45	UI	0.28	0/3427	0.55	0/4644
45	UK	0.28	0/3427	0.53	0/4644
45	UM	0.28	0/3427	0.54	0/4644
45	VA	0.28	0/3443	0.55	1/4666 (0.0%)
45	VC	0.28	0/3480	0.53	0/4716
45	VE	0.28	0/3443	0.52	0/4666
45	VG	0.29	0/3480	0.53	0/4716
45	VI	0.28	0/3443	0.55	1/4666 (0.0%)
45	VK	0.32	1/3480 (0.0%)	0.58	2/4716 (0.0%)
45	VM	0.25	0/3443	0.49	0/4666
45	WA	0.28	0/3427	0.57	1/4644 (0.0%)
45	WC	0.29	0/3480	0.54	0/4716
45	WE	0.28	0/3427	0.53	0/4644
45	WG	0.29	0/3480	0.54	0/4716
45	WI	0.29	0/3427	0.52	0/4644
45	WK	0.29	0/3480	0.56	0/4716
45	WM	0.26	0/3427	0.53	0/4644
46	AB	0.28	0/3439	0.53	0/4655
46	AD	0.30	0/3439	0.54	0/4655
46	AF	0.30	0/3439	0.53	0/4655
46	AH	0.30	0/3439	0.54	0/4655
46	AJ	0.30	0/3439	0.53	0/4655
46	AL	0.29	0/3439	0.52	0/4655
46	AN	0.29	0/3439	0.54	0/4655
46	BB	0.25	0/3439	0.50	0/4655
46	BD	0.29	0/3439	0.54	0/4655
46	BF	0.29	0/3439	0.53	0/4655
46	BH	0.31	0/3439	0.57	0/4655
46	BJ	0.30	0/3439	0.53	0/4655
46	BL	0.30	0/3439	0.56	0/4655
46	BN	0.29	0/3439	0.56	1/4655 (0.0%)
46	CB	0.29	0/3439	0.55	0/4655
46	CD	0.29	0/3439	0.55	0/4655
46	CF	0.42	2/3439 (0.1%)	0.66	3/4655 (0.1%)
46	CH	0.28	0/3439	0.54	0/4655
46	CJ	0.28	0/3439	0.52	0/4655
46	CL	0.29	0/3439	0.55	0/4655
46	CN	0.25	0/3439	0.48	0/4655
46	DB	0.27	0/3439	0.53	0/4655
46	DD	0.28	0/3439	0.56	0/4655
46	DF	1.98	6/3439 (0.2%)	0.56	0/4655
46	DH	0.27	0/3439	0.53	0/4655
46	DJ	0.28	0/3439	0.53	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
46	DL	0.28	0/3439	0.55	0/4655
46	DN	0.25	0/3439	0.48	0/4655
46	EB	0.26	0/3439	0.51	0/4655
46	ED	0.28	0/3439	0.55	0/4655
46	EF	0.28	0/3439	0.56	0/4655
46	EH	0.27	0/3439	0.54	0/4655
46	EJ	0.28	0/3439	0.53	0/4655
46	EL	0.29	0/3439	0.56	0/4655
46	EN	0.27	0/3439	0.54	3/4655 (0.1%)
46	FB	0.25	0/3439	0.51	0/4655
46	FD	0.30	0/3439	0.57	0/4655
46	FF	0.30	0/3439	0.54	0/4655
46	FH	0.29	0/3439	0.53	0/4655
46	FJ	0.30	0/3439	0.53	0/4655
46	FL	0.30	0/3439	0.55	0/4655
46	FN	0.26	0/3439	0.52	0/4655
46	GB	0.25	0/3439	0.51	0/4655
46	GD	0.29	0/3439	0.55	0/4655
46	GF	0.30	0/3439	0.53	0/4655
46	GH	0.33	0/3439	0.56	1/4655 (0.0%)
46	GJ	0.30	0/3439	0.53	0/4655
46	GL	0.30	0/3439	0.53	0/4655
46	GN	0.27	0/3439	0.54	0/4655
46	HB	0.25	0/3439	0.50	0/4655
46	HD	0.29	0/3439	0.53	0/4655
46	HF	0.32	0/3439	0.57	2/4655 (0.0%)
46	HH	0.30	0/3439	0.53	0/4655
46	HJ	0.31	0/3439	0.54	0/4655
46	HL	0.30	0/3439	0.53	0/4655
46	HN	0.27	0/3439	0.52	0/4655
46	IB	0.27	0/3439	0.54	1/4655 (0.0%)
46	ID	0.29	0/3439	0.53	0/4655
46	IF	0.29	0/3439	0.53	0/4655
46	IH	0.30	0/3439	0.53	0/4655
46	IJ	0.30	0/3439	0.53	0/4655
46	IL	0.29	0/3439	0.53	0/4655
46	IN	0.29	0/3439	0.56	0/4655
46	JB	0.28	0/3439	0.53	0/4655
46	JD	0.30	0/3439	0.53	0/4655
46	JF	0.30	0/3439	0.52	0/4655
46	JH	0.29	0/3439	0.53	0/4655
46	JJ	0.30	0/3439	0.54	0/4655
46	JL	0.29	0/3439	0.53	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
46	JN	0.29	0/3439	0.55	0/4655
46	KB	0.28	0/3439	0.54	0/4655
46	KD	0.28	0/3439	0.53	0/4655
46	KF	0.29	0/3439	0.53	0/4655
46	KH	0.30	0/3439	0.53	0/4655
46	KJ	0.29	0/3439	0.56	0/4655
46	KL	0.29	0/3439	0.54	0/4655
46	KN	0.29	0/3439	0.55	0/4655
46	LB	0.27	0/3439	0.51	0/4655
46	LD	0.28	0/3439	0.53	0/4655
46	LF	0.29	0/3439	0.55	0/4655
46	LH	0.28	0/3439	0.53	0/4655
46	LJ	0.30	0/3439	0.54	0/4655
46	LL	0.30	0/3439	0.54	0/4655
46	LN	0.29	0/3439	0.54	0/4655
46	MB	0.28	0/3439	0.53	0/4655
46	MD	0.30	0/3439	0.53	0/4655
46	MF	0.30	0/3439	0.54	0/4655
46	MH	0.29	0/3439	0.54	0/4655
46	MJ	0.31	0/3439	0.55	0/4655
46	ML	0.29	0/3439	0.52	0/4655
46	MN	0.29	0/3439	0.52	0/4655
46	NB	0.27	0/3375	0.56	0/4569
46	ND	0.29	0/3439	0.57	0/4655
46	NF	0.28	0/3375	0.53	0/4569
46	NH	0.28	0/3439	0.54	0/4655
46	NJ	0.28	0/3375	0.54	0/4569
46	NL	0.28	0/3439	0.55	0/4655
46	NN	0.28	0/3375	0.54	0/4569
46	OB	0.27	0/3439	0.53	0/4655
46	OD	0.29	0/3439	0.55	0/4655
46	OF	0.27	0/3439	0.54	0/4655
46	OH	0.28	0/3439	0.53	0/4655
46	OJ	0.28	0/3439	0.53	0/4655
46	OL	0.29	0/3439	0.54	0/4655
46	ON	0.27	0/3439	0.55	0/4655
46	PB	0.25	0/3439	0.49	0/4655
46	PD	0.27	0/3439	0.55	0/4655
46	PF	0.28	0/3439	0.53	0/4655
46	PH	0.29	0/3439	0.56	0/4655
46	PJ	0.27	0/3439	0.53	0/4655
46	PL	0.28	0/3439	0.54	0/4655
46	PN	0.29	0/3439	0.59	2/4655 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
46	QB	0.27	0/3439	0.53	0/4655
46	QD	0.27	0/3439	0.53	0/4655
46	QF	0.28	0/3439	0.54	0/4655
46	QH	0.28	0/3439	0.54	0/4655
46	QJ	0.28	0/3439	0.53	0/4655
46	QL	0.28	0/3439	0.55	0/4655
46	QN	0.24	0/3439	0.49	0/4655
46	RB	0.28	0/3439	0.54	0/4655
46	RD	0.28	0/3439	0.52	0/4655
46	RF	0.29	0/3439	0.54	0/4655
46	RH	0.28	0/3439	0.54	0/4655
46	RJ	0.28	0/3439	0.54	0/4655
46	RL	0.35	1/3439 (0.0%)	0.64	4/4655 (0.1%)
46	RN	0.25	0/3439	0.48	0/4655
46	SB	0.27	0/3439	0.55	0/4655
46	SD	0.31	0/3439	0.54	0/4655
46	SF	0.29	0/3439	0.53	0/4655
46	SH	0.29	0/3439	0.54	0/4655
46	SJ	0.29	0/3439	0.54	0/4655
46	SL	0.30	0/3439	0.56	0/4655
46	SN	0.25	0/3439	0.49	0/4655
46	TB	0.27	0/3439	0.55	0/4655
46	TD	0.28	0/3439	0.54	0/4655
46	TF	0.27	0/3439	0.53	0/4655
46	TH	0.27	0/3439	0.53	0/4655
46	TJ	0.28	0/3439	0.54	0/4655
46	TL	0.28	0/3439	0.55	0/4655
46	TN	0.25	0/3439	0.49	0/4655
46	UB	0.28	0/3439	0.54	0/4655
46	UD	0.28	0/3439	0.54	0/4655
46	UF	0.28	0/3439	0.53	0/4655
46	UH	0.29	0/3439	0.54	0/4655
46	UJ	0.29	0/3439	0.56	1/4655 (0.0%)
46	UL	0.28	0/3439	0.54	0/4655
46	UN	0.27	0/3439	0.54	0/4655
46	VB	0.28	0/3439	0.55	0/4655
46	VD	0.29	0/3439	0.55	0/4655
46	VF	0.29	0/3439	0.54	0/4655
46	VH	0.28	0/3439	0.55	0/4655
46	VJ	0.28	0/3439	0.54	0/4655
46	VL	0.28	0/3439	0.56	0/4655
46	VN	0.28	0/3439	0.54	0/4655
46	WB	0.27	0/3439	0.56	0/4655

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
46	WD	0.29	0/3439	0.55	0/4655
46	WF	0.29	0/3439	0.53	0/4655
46	WH	0.28	0/3439	0.55	0/4655
46	WJ	0.29	0/3439	0.56	0/4655
46	WL	0.30	0/3439	0.55	0/4655
46	WN	0.28	0/3439	0.55	0/4655
All	All	0.33	26/1335252 (0.0%)	0.54	95/1806584 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0A	0	1
1	1A	0	1
1	2A	0	1
1	3A	0	1
2	0B	0	3
4	1D	0	1
4	2D	0	1
5	0E	0	1
5	1E	0	1
6	0F	0	4
7	0G	0	2
7	1G	0	1
10	2Q	0	1
11	0S	0	1
13	0U	0	1
13	1U	0	1
13	3U	0	1
21	1L	0	2
21	2L	0	2
23	1O	0	1
25	1R	0	1
25	2R	0	1
25	3R	0	1
31	3I	0	1
33	4F	0	1
40	6G	0	2
44	8R	0	1
45	BI	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
45	EA	0	1
45	EE	0	1
45	EI	0	1
45	EM	0	1
45	PA	0	1
45	QA	0	1
45	RM	0	1
45	TA	0	1
46	BH	0	1
46	QD	0	1
46	UF	0	1
All	All	0	48

All (26) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	UA	282	TYR	CD2-CE2	82.47	2.63	1.39
46	DF	281	TYR	CD2-CE2	66.29	2.38	1.39
45	UA	282	TYR	CD1-CE1	61.55	2.31	1.39
46	DF	281	TYR	CD1-CE1	59.73	2.29	1.39
30	3H	174	PHE	CE1-CZ	46.67	2.26	1.37
45	UA	282	TYR	CE2-CZ	43.35	1.95	1.38
45	UA	282	TYR	CE1-CZ	43.20	1.94	1.38
30	3H	174	PHE	CE2-CZ	41.87	2.17	1.37
30	3H	174	PHE	CD1-CE1	40.95	2.21	1.39
30	3H	174	PHE	CD2-CE2	40.78	2.20	1.39
46	DF	281	TYR	CE1-CZ	40.58	1.91	1.38
46	DF	281	TYR	CE2-CZ	40.40	1.91	1.38
45	UA	282	TYR	CG-CD2	39.03	1.89	1.39
45	UA	282	TYR	CG-CD1	34.32	1.83	1.39
46	DF	281	TYR	CG-CD2	31.70	1.80	1.39
46	DF	281	TYR	CG-CD1	31.60	1.80	1.39
30	3H	174	PHE	CG-CD2	27.20	1.79	1.38
30	3H	174	PHE	CG-CD1	27.06	1.79	1.38
23	1O	266	GLU	CA-C	15.89	1.94	1.52
46	CF	86	ARG	CD-NE	14.10	1.70	1.46
34	4R	147	ARG	CD-NE	13.42	1.69	1.46
46	CF	86	ARG	NE-CZ	10.39	1.46	1.33
34	4R	147	ARG	NE-CZ	9.88	1.45	1.33
45	RE	89	PRO	CG-CD	-9.63	1.18	1.50
46	RL	173	PRO	CG-CD	-8.87	1.21	1.50
45	VK	261	PRO	CG-CD	-6.52	1.29	1.50

All (95) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
34	4R	147	ARG	CD-NE-CZ	21.71	153.99	123.60
46	CF	86	ARG	CD-NE-CZ	21.01	153.02	123.60
17	1F	29	GLN	C-N-CD	-14.46	88.80	120.60
3	1C	44	ILE	C-N-CD	-14.05	89.69	120.60
34	4R	147	ARG	NE-CZ-NH1	12.17	126.39	120.30
46	CF	86	ARG	NE-CZ-NH1	12.04	126.32	120.30
6	0F	32	ILE	C-N-CD	-11.70	94.86	120.60
45	VK	261	PRO	CA-N-CD	-11.69	95.14	111.50
46	RL	173	PRO	N-CD-CG	-11.58	85.83	103.20
45	RE	89	PRO	CA-N-CD	-11.21	95.81	111.50
45	RE	89	PRO	N-CD-CG	-11.15	86.48	103.20
46	HF	80	PRO	CA-N-CD	-9.86	97.69	111.50
23	1O	266	GLU	O-C-N	-9.58	107.37	122.70
45	UA	282	TYR	CZ-CE2-CD2	-9.40	111.34	119.80
45	IA	261	PRO	CA-N-CD	-9.08	98.79	111.50
45	VK	261	PRO	N-CD-CG	-8.99	89.72	103.20
23	1O	266	GLU	CB-CA-C	8.85	128.09	110.40
34	4R	147	ARG	CG-CD-NE	8.41	129.46	111.80
45	EM	261	PRO	CA-N-CD	-8.17	100.07	111.50
23	1O	266	GLU	N-CA-CB	-8.05	96.11	110.60
46	EN	182	PRO	CA-N-CD	-8.03	100.26	111.50
46	RL	259	PRO	CA-N-CD	-7.74	100.67	111.50
46	RL	173	PRO	CA-N-CD	-7.56	100.91	111.50
14	1V	45	ARG	C-N-CD	-6.96	105.29	120.60
8	1H	419	LEU	CA-CB-CG	6.80	130.93	115.30
40	6G	236	LEU	CA-CB-CG	6.75	130.83	115.30
46	EN	182	PRO	N-CD-CG	-6.58	93.34	103.20
23	3O	374	ARG	CA-CB-CG	6.55	127.80	113.40
1	2A	19	ARG	C-N-CD	-6.52	106.26	120.60
3	1C	45	PRO	CA-N-CD	-6.47	102.44	111.50
46	CF	86	ARG	CG-CD-NE	6.45	125.35	111.80
14	2V	45	ARG	C-N-CD	-6.37	106.59	120.60
4	1D	221	PRO	CA-N-CD	-6.30	102.68	111.50
45	CA	268	MET	CA-CB-CG	6.28	123.98	113.30
15	1X	45	GLN	CA-CB-CG	6.16	126.96	113.40
45	GK	45	GLY	C-N-CA	6.11	136.98	121.70
45	DC	273	ALA	C-N-CD	-6.09	107.19	120.60
45	RE	89	PRO	CA-CB-CG	-6.04	92.52	104.00
2	0B	320	LEU	CA-CB-CG	6.03	129.16	115.30
46	HF	80	PRO	N-CD-CG	-6.02	94.16	103.20
6	0F	170	ARG	CA-CB-CG	5.98	126.56	113.40
21	1L	556	LEU	CA-CB-CG	5.98	129.05	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	1X	50	GLU	CA-CB-CG	5.96	126.51	113.40
15	3X	45	GLN	CA-CB-CG	5.95	126.49	113.40
14	1V	164	VAL	C-N-CD	-5.89	107.64	120.60
30	3H	174	PHE	CD1-CG-CD2	5.84	125.89	118.30
30	3H	174	PHE	CB-CG-CD2	-5.83	116.72	120.80
45	JA	298	PRO	CA-N-CD	-5.80	103.38	111.50
8	1H	115	ARG	CB-CG-CD	-5.80	96.53	111.60
45	AG	89	PRO	CA-N-CD	-5.77	103.42	111.50
41	6H	204	LEU	CA-CB-CG	5.76	128.55	115.30
3	0C	44	ILE	C-N-CD	-5.74	107.98	120.60
46	EN	32	PRO	CA-N-CD	-5.74	103.47	111.50
11	2S	28	GLU	C-N-CA	5.71	135.98	121.70
45	VA	227	LEU	CA-CB-CG	5.71	128.44	115.30
21	2L	626	ARG	CA-CB-CG	5.70	125.94	113.40
15	0X	45	GLN	CA-CB-CG	5.63	125.79	113.40
45	AC	35	GLN	C-N-CA	-5.63	107.63	121.70
46	RL	173	PRO	CA-CB-CG	-5.55	93.46	104.00
21	2L	801	SER	C-N-CA	5.53	135.52	121.70
15	2X	45	GLN	CA-CB-CG	5.49	125.48	113.40
45	WA	117	LEU	CA-CB-CG	5.44	127.81	115.30
29	2G	68	ARG	CG-CD-NE	5.41	123.16	111.80
23	3O	283	LYS	CB-CG-CD	5.40	125.65	111.60
26	2W	272	LYS	CD-CE-NZ	-5.39	99.30	111.70
5	1E	34	LEU	C-N-CA	5.38	135.16	121.70
1	0A	112	LEU	CA-CB-CG	5.37	127.65	115.30
40	6G	121	SER	C-N-CA	5.35	135.08	121.70
1	0A	90	GLN	CA-CB-CG	5.35	125.16	113.40
45	TG	152	LEU	CA-CB-CG	5.32	127.55	115.30
11	2S	35	LEU	CA-CB-CG	5.30	127.49	115.30
46	BN	80	PRO	CA-N-CD	-5.29	104.09	111.50
46	UJ	321	MET	CA-CB-CG	5.29	122.28	113.30
46	GH	321	MET	CA-CB-CG	5.27	122.27	113.30
45	RE	248	LEU	CA-CB-CG	5.27	127.43	115.30
46	PN	380	ARG	CA-CB-CG	5.26	124.97	113.40
23	1O	266	GLU	CA-C-N	5.25	128.75	117.20
45	FA	307	PRO	CA-N-CD	-5.23	104.18	111.50
45	QA	154	LEU	CA-CB-CG	5.22	127.30	115.30
21	1L	73	LEU	CA-CB-CG	5.20	127.26	115.30
28	2F	30	ALA	C-N-CA	5.20	134.70	121.70
13	3U	365	CYS	CA-CB-SG	5.18	123.32	114.00
5	2E	156	ASP	CB-CG-OD1	5.15	122.94	118.30
45	CE	39	ASP	CB-CG-OD2	5.15	122.93	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
45	AA	35	GLN	C-N-CA	-5.15	108.83	121.70
45	RE	173	PRO	CA-N-CD	-5.12	104.33	111.50
36	5C	37	ASP	CB-CG-OD1	5.08	122.88	118.30
13	1U	125	ASP	CB-CG-OD1	5.08	122.87	118.30
46	PN	357	PRO	CA-N-CD	-5.08	104.39	111.50
45	MA	47	ASP	CB-CG-OD1	5.06	122.85	118.30
36	5A	37	ASP	CB-CG-OD1	5.05	122.85	118.30
36	5B	37	ASP	CB-CG-OD1	5.04	122.84	118.30
45	VI	199	ASP	CB-CG-OD1	5.02	122.82	118.30
25	1R	454	ARG	CB-CG-CD	5.02	124.65	111.60
46	IB	147	MET	CA-CB-CG	5.00	121.81	113.30

There are no chirality outliers.

All (48) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0A	70	HIS	Peptide
2	0B	222	GLU	Peptide
2	0B	223	LYS	Peptide
2	0B	322	ARG	Peptide
5	0E	43	VAL	Peptide
6	0F	170	ARG	Sidechain
6	0F	182	ALA	Peptide
6	0F	7	ILE	Peptide
6	0F	88	ASN	Peptide
7	0G	120	TYR	Peptide
7	0G	45	MET	Peptide
11	0S	236	ARG	Sidechain
13	0U	526	ARG	Peptide
1	1A	38	SER	Peptide
4	1D	38	ILE	Peptide
5	1E	43	VAL	Peptide
7	1G	97	ASN	Peptide
21	1L	517	ARG	Sidechain
21	1L	579	VAL	Peptide
23	1O	271	ALA	Peptide
25	1R	42	PRO	Peptide
13	1U	488	PHE	Peptide
1	2A	19	ARG	Peptide
4	2D	38	ILE	Peptide
21	2L	578	ASN	Peptide
21	2L	892	ARG	Sidechain

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Mol	Chain	Res	Type	Group
10	2Q	72	LYS	Peptide
25	2R	42	PRO	Peptide
1	3A	38	SER	Peptide
31	3I	220	LYS	Peptide
25	3R	42	PRO	Peptide
13	3U	441	MET	Peptide
33	4F	44	ASP	Peptide
40	6G	242	ASP	Peptide
40	6G	270	THR	Peptide
44	8R	89	UNK	Peptide
46	BH	86	ARG	Sidechain
45	BI	256	GLN	Peptide
45	EA	36	MET	Peptide
45	EE	36	MET	Peptide
45	EI	36	MET	Peptide
45	EM	36	MET	Peptide
45	PA	256	GLN	Peptide
45	QA	256	GLN	Peptide
46	QD	299	MET	Peptide
45	RM	256	GLN	Peptide
45	TA	256	GLN	Peptide
46	UF	322	SER	Peptide

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0A	1229	0	1156	31	0
1	1A	1229	0	1156	17	0
1	2A	1229	0	1156	25	0
1	3A	1229	0	1156	25	0
2	0B	2615	0	2539	31	0
3	0C	747	0	746	11	0
3	1C	747	0	746	17	0
4	0D	1619	0	1606	49	0
4	1D	1619	0	1606	36	0
4	2D	1619	0	1606	42	0
5	0E	1557	0	1513	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	1E	1557	0	1513	2	0
5	2E	1557	0	1513	7	0
5	3E	1557	0	1513	2	0
6	0F	1665	0	1658	24	0
7	0G	1378	0	1332	23	0
7	1G	1109	0	1072	25	0
8	0H	1046	0	1051	2	0
8	1H	3706	0	3719	37	0
9	0N	2305	0	2251	12	0
9	1N	3805	0	3734	13	0
9	2N	2305	0	2251	11	0
10	0Q	1548	0	1575	4	0
10	1Q	1548	0	1575	15	0
10	2Q	1548	0	1575	4	0
10	3Q	1548	0	1575	7	0
10	4Q	1548	0	1575	7	0
10	5Q	1548	0	1575	56	0
10	6Q	1548	0	1575	62	0
11	0S	2310	0	2349	16	0
11	1S	2310	0	2349	20	0
11	2S	2310	0	2349	14	0
11	3S	2310	0	2349	17	0
12	0T	2124	0	2067	3	0
12	1T	2321	0	2267	8	0
12	2T	2321	0	2267	16	0
12	3T	2321	0	2267	8	0
13	0U	4774	0	4750	3	0
13	1U	4774	0	4750	7	0
13	2U	4774	0	4750	7	0
13	3U	4774	0	4750	6	0
14	0V	1750	0	1740	18	0
14	1V	2168	0	2164	31	0
14	2V	2168	0	2164	33	0
14	3V	2168	0	2164	21	0
15	0X	935	0	911	13	0
15	1X	1202	0	1179	21	0
15	2X	1202	0	1179	14	0
15	3X	1202	0	1179	11	0
15	4X	1202	0	1179	56	0
16	1B	4066	0	4014	5	0
16	2B	2439	0	2418	4	0
16	3B	2437	0	2415	10	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
17	1F	1093	0	1080	21	0
18	1I	1546	0	1485	31	0
19	1J	3025	0	2936	74	0
20	1K	2425	0	2432	28	0
20	2K	2506	0	2541	30	0
21	1L	6842	0	6888	71	0
21	2L	5151	0	5185	51	0
21	3L	1660	0	1672	5	0
22	1M	2978	0	2957	4	0
22	2M	2978	0	2957	7	0
23	1O	2032	0	2152	71	0
23	2O	3173	0	3302	48	0
23	3O	2397	0	2483	16	0
24	1P	3060	0	3181	39	0
24	2P	1633	0	1646	15	0
25	1R	4244	0	4119	30	0
25	2R	4244	0	4119	39	0
25	3R	4244	0	4119	33	0
26	1W	1924	0	1867	20	0
26	2W	990	0	967	19	0
27	2C	2467	0	2457	16	0
27	3C	2467	0	2457	7	0
27	4C	2467	0	2457	9	0
28	2F	746	0	702	12	0
29	2G	848	0	871	5	0
30	2H	501	0	513	14	0
30	3H	501	0	513	15	0
30	4H	501	0	513	7	0
31	2I	1150	0	1150	60	0
31	3I	712	0	722	30	0
32	3D	1835	0	1817	2	0
33	4F	1618	0	1562	23	0
34	4R	5070	0	4976	100	0
34	5R	5070	0	4976	160	0
34	6R	5070	0	4976	141	0
34	7R	5070	0	4976	159	0
35	4S	1537	0	1565	90	0
35	5S	1537	0	1565	72	0
36	5A	1261	0	1230	49	0
36	5B	1261	0	1230	55	0
36	5C	1261	0	1230	50	0
36	5D	908	0	886	35	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
37	5E	1566	0	1570	74	0
37	5F	1750	0	1753	104	0
37	5G	1750	0	1753	83	0
37	5H	1210	0	1191	69	0
38	5I	515	0	109	0	0
38	5J	545	0	115	1	0
38	5K	400	0	84	0	0
39	6F	1140	0	1077	47	0
40	6G	1769	0	1772	121	0
41	6H	1362	0	1278	57	0
42	8L	1925	0	391	4	0
42	8N	1790	0	362	0	0
43	8P	1815	0	369	4	0
44	8R	2020	0	1200	23	0
45	AA	3408	0	3347	97	0
45	AC	3408	0	3347	125	0
45	AE	3408	0	3347	115	0
45	AG	3408	0	3347	93	0
45	AI	3408	0	3347	81	0
45	AK	3408	0	3347	89	0
45	AM	3408	0	3347	104	0
45	BA	3364	0	3302	131	0
45	BC	3364	0	3302	104	0
45	BE	3364	0	3302	113	0
45	BG	3364	0	3302	102	0
45	BI	3364	0	3302	101	0
45	BK	3364	0	3302	115	0
45	BM	3364	0	3302	123	0
45	CA	3408	0	3347	108	0
45	CC	3408	0	3347	134	0
45	CE	3408	0	3347	104	0
45	CG	3408	0	3347	135	0
45	CI	3408	0	3347	104	0
45	CK	3408	0	3347	107	0
45	CM	3408	0	3347	100	0
45	DA	3372	0	3305	66	0
45	DC	3389	0	3325	135	0
45	DE	3372	0	3306	116	0
45	DG	3389	0	3325	114	0
45	DI	3372	0	3306	110	0
45	DK	3389	0	3325	121	0
45	DM	3372	0	3306	130	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	EA	3408	0	3347	53	0
45	EC	3408	0	3347	161	0
45	EE	3408	0	3347	112	0
45	EG	3408	0	3347	115	0
45	EI	3408	0	3346	99	0
45	EK	3408	0	3347	104	0
45	EM	3408	0	3347	129	0
45	FA	3342	0	3289	107	0
45	FC	3364	0	3302	101	0
45	FE	3376	0	3309	83	0
45	FG	3408	0	3347	93	0
45	FI	3372	0	3306	94	0
45	FK	3364	0	3302	117	0
45	FM	3342	0	3289	55	0
45	GA	3342	0	3289	121	0
45	GC	3358	0	3297	90	0
45	GE	3358	0	3297	132	0
45	GG	3358	0	3297	111	0
45	GI	3358	0	3297	93	0
45	GK	3408	0	3347	110	0
45	GM	3342	0	3289	60	0
45	HA	3356	0	3298	101	0
45	HC	3356	0	3298	100	0
45	HE	3356	0	3298	111	0
45	HG	3356	0	3298	92	0
45	HI	3356	0	3298	103	0
45	HK	3356	0	3298	112	0
45	HM	3356	0	3298	74	0
45	IA	3364	0	3302	114	0
45	IC	3408	0	3347	114	0
45	IE	3364	0	3302	122	0
45	IG	3408	0	3347	136	0
45	II	3408	0	3347	104	0
45	IK	3364	0	3302	112	0
45	IM	3364	0	3302	128	0
45	JA	3364	0	3302	108	0
45	JC	3376	0	3309	104	0
45	JE	3408	0	3347	87	0
45	JG	3408	0	3347	109	0
45	JI	3404	0	3337	105	0
45	JK	3408	0	3347	115	0
45	JM	3364	0	3302	104	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	KA	3376	0	3309	117	0
45	KC	3372	0	3306	84	0
45	KE	3385	0	3322	108	0
45	KG	3408	0	3347	125	0
45	KI	3408	0	3347	96	0
45	KK	3408	0	3347	107	0
45	KM	3376	0	3309	126	0
45	LA	3408	0	3347	100	0
45	LC	3408	0	3347	98	0
45	LE	3400	0	3335	88	0
45	LG	3408	0	3347	95	0
45	LI	3381	0	3319	114	0
45	LK	3408	0	3347	107	0
45	LM	3408	0	3347	89	0
45	MA	3392	0	3329	104	0
45	MC	3368	0	3305	102	0
45	ME	3372	0	3306	109	0
45	MG	3400	0	3340	112	0
45	MI	3408	0	3347	100	0
45	MK	3384	0	3315	97	0
45	MM	3392	0	3329	99	0
45	NA	3408	0	3347	153	0
45	NC	3364	0	3302	109	0
45	NE	3408	0	3347	106	0
45	NG	3364	0	3302	119	0
45	NI	3408	0	3347	118	0
45	NK	3364	0	3302	129	0
45	NM	3408	0	3347	134	0
45	OA	3368	0	3305	166	0
45	OC	3368	0	3305	132	0
45	OE	3368	0	3305	133	0
45	OG	3368	0	3305	110	0
45	OI	3368	0	3305	112	0
45	OK	3368	0	3305	127	0
45	OM	3368	0	3305	112	0
45	PA	3342	0	3288	148	0
45	PC	3342	0	3289	132	0
45	PE	3342	0	3289	129	0
45	PG	3342	0	3289	140	0
45	PI	3342	0	3289	115	0
45	PK	3342	0	3289	110	0
45	PM	3342	0	3289	103	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	QA	3356	0	3298	102	0
45	QC	3356	0	3298	124	0
45	QE	3356	0	3298	116	0
45	QG	3356	0	3298	153	0
45	QI	3356	0	3298	140	0
45	QK	3356	0	3298	125	0
45	QM	3356	0	3298	115	0
45	RA	3356	0	3298	76	0
45	RC	3356	0	3298	122	0
45	RE	3356	0	3298	128	0
45	RG	3356	0	3298	144	0
45	RI	3356	0	3298	96	0
45	RK	3356	0	3298	110	0
45	RM	3356	0	3298	106	0
45	SA	3350	0	3293	56	0
45	SC	3350	0	3293	124	0
45	SE	3350	0	3293	122	0
45	SG	3350	0	3293	125	0
45	SI	3350	0	3293	110	0
45	SK	3350	0	3293	147	0
45	SM	3350	0	3293	111	0
45	TA	3350	0	3293	67	0
45	TC	3350	0	3293	149	0
45	TE	3350	0	3293	136	0
45	TG	3350	0	3293	117	0
45	TI	3350	0	3293	102	0
45	TK	3350	0	3293	116	0
45	TM	3350	0	3293	139	0
45	UA	3356	0	3298	108	0
45	UC	3356	0	3298	145	0
45	UE	3356	0	3298	130	0
45	UG	3356	0	3298	120	0
45	UI	3356	0	3298	102	0
45	UK	3356	0	3298	140	0
45	UM	3356	0	3298	135	0
45	VA	3372	0	3306	182	0
45	VC	3408	0	3347	112	0
45	VE	3372	0	3306	121	0
45	VG	3408	0	3347	156	0
45	VI	3372	0	3306	127	0
45	VK	3408	0	3347	152	0
45	VM	3372	0	3306	65	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
45	WA	3356	0	3297	134	0
45	WC	3408	0	3347	150	0
45	WE	3356	0	3298	120	0
45	WG	3408	0	3347	130	0
45	WI	3356	0	3298	102	0
45	WK	3408	0	3347	137	0
45	WM	3356	0	3298	89	0
46	AB	3366	0	3257	118	0
46	AD	3366	0	3257	122	0
46	AF	3366	0	3257	108	0
46	AH	3366	0	3257	105	0
46	AJ	3366	0	3257	91	0
46	AL	3366	0	3257	106	0
46	AN	3366	0	3257	119	0
46	BB	3366	0	3257	83	0
46	BD	3366	0	3257	138	0
46	BF	3366	0	3257	123	0
46	BH	3366	0	3257	142	0
46	BJ	3366	0	3257	106	0
46	BL	3366	0	3257	120	0
46	BN	3366	0	3257	160	0
46	CB	3366	0	3257	168	0
46	CD	3366	0	3257	112	0
46	CF	3366	0	3257	172	0
46	CH	3366	0	3257	111	0
46	CJ	3366	0	3257	123	0
46	CL	3366	0	3257	130	0
46	CN	3366	0	3257	91	0
46	DB	3366	0	3257	129	0
46	DD	3366	0	3257	118	0
46	DF	3366	0	3257	129	0
46	DH	3366	0	3257	114	0
46	DJ	3366	0	3257	124	0
46	DL	3366	0	3257	154	0
46	DN	3366	0	3257	63	0
46	EB	3366	0	3257	130	0
46	ED	3366	0	3257	121	0
46	EF	3366	0	3257	146	0
46	EH	3366	0	3257	128	0
46	EJ	3366	0	3257	119	0
46	EL	3366	0	3257	142	0
46	EN	3366	0	3257	102	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	FB	3366	0	3257	113	0
46	FD	3366	0	3257	132	0
46	FF	3366	0	3257	124	0
46	FH	3366	0	3257	126	0
46	FJ	3366	0	3257	113	0
46	FL	3366	0	3257	126	0
46	FN	3366	0	3257	98	0
46	GB	3366	0	3257	87	0
46	GD	3366	0	3257	126	0
46	GF	3366	0	3257	113	0
46	GH	3366	0	3257	106	0
46	GJ	3366	0	3257	101	0
46	GL	3366	0	3257	97	0
46	GN	3366	0	3257	113	0
46	HB	3366	0	3257	102	0
46	HD	3366	0	3257	121	0
46	HF	3366	0	3257	125	0
46	HH	3366	0	3257	116	0
46	HJ	3366	0	3257	105	0
46	HL	3366	0	3257	117	0
46	HN	3366	0	3257	127	0
46	IB	3366	0	3257	107	0
46	ID	3366	0	3257	118	0
46	IF	3366	0	3257	77	0
46	IH	3366	0	3257	122	0
46	IJ	3366	0	3257	123	0
46	IL	3366	0	3257	111	0
46	IN	3366	0	3257	133	0
46	JB	3366	0	3257	97	0
46	JD	3366	0	3257	77	0
46	JF	3366	0	3257	98	0
46	JH	3366	0	3257	99	0
46	JJ	3366	0	3257	106	0
46	JL	3366	0	3257	102	0
46	JN	3366	0	3257	137	0
46	KB	3366	0	3257	102	0
46	KD	3366	0	3257	90	0
46	KF	3366	0	3257	104	0
46	KH	3366	0	3257	94	0
46	KJ	3366	0	3257	105	0
46	KL	3366	0	3257	98	0
46	KN	3366	0	3257	115	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	LB	3366	0	3257	102	0
46	LD	3366	0	3257	101	0
46	LF	3366	0	3257	95	0
46	LH	3366	0	3257	100	0
46	LJ	3366	0	3257	107	0
46	LL	3366	0	3257	108	0
46	LN	3366	0	3257	96	0
46	MB	3366	0	3257	123	0
46	MD	3366	0	3257	102	0
46	MF	3366	0	3257	108	0
46	MH	3366	0	3257	90	0
46	MJ	3366	0	3257	139	0
46	ML	3366	0	3257	76	0
46	MN	3366	0	3257	101	0
46	NB	3304	0	3197	146	0
46	ND	3366	0	3257	140	0
46	NF	3304	0	3197	89	0
46	NH	3366	0	3257	130	0
46	NJ	3304	0	3197	120	0
46	NL	3366	0	3257	141	0
46	NN	3304	0	3197	113	0
46	OB	3366	0	3257	126	0
46	OD	3366	0	3257	142	0
46	OF	3366	0	3255	123	0
46	OH	3366	0	3257	101	0
46	OJ	3366	0	3257	118	0
46	OL	3366	0	3257	105	0
46	ON	3366	0	3257	150	0
46	PB	3366	0	3257	90	0
46	PD	3366	0	3255	152	0
46	PF	3366	0	3257	122	0
46	PH	3366	0	3257	122	0
46	PJ	3366	0	3257	124	0
46	PL	3366	0	3257	135	0
46	PN	3366	0	3257	158	0
46	QB	3366	0	3257	150	0
46	QD	3366	0	3257	112	0
46	QF	3366	0	3257	132	0
46	QH	3366	0	3257	142	0
46	QJ	3366	0	3257	121	0
46	QL	3366	0	3257	162	0
46	QN	3366	0	3257	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	RB	3366	0	3257	136	0
46	RD	3366	0	3257	129	0
46	RF	3366	0	3257	143	0
46	RH	3366	0	3257	130	0
46	RJ	3366	0	3257	125	0
46	RL	3366	0	3257	171	0
46	RN	3366	0	3257	66	0
46	SB	3366	0	3257	138	0
46	SD	3366	0	3257	139	0
46	SF	3366	0	3257	137	0
46	SH	3366	0	3257	125	0
46	SJ	3366	0	3257	134	0
46	SL	3366	0	3257	161	0
46	SN	3366	0	3257	66	0
46	TB	3366	0	3257	144	0
46	TD	3366	0	3257	130	0
46	TF	3366	0	3257	148	0
46	TH	3366	0	3257	125	0
46	TJ	3366	0	3257	135	0
46	TL	3366	0	3257	180	0
46	TN	3366	0	3257	75	0
46	UB	3366	0	3257	163	0
46	UD	3366	0	3257	132	0
46	UF	3366	0	3257	145	0
46	UH	3366	0	3257	136	0
46	UJ	3366	0	3257	161	0
46	UL	3366	0	3257	168	0
46	UN	3366	0	3257	120	0
46	VB	3366	0	3257	149	0
46	VD	3366	0	3257	147	0
46	VF	3366	0	3257	135	0
46	VH	3366	0	3257	150	0
46	VJ	3366	0	3257	129	0
46	VL	3366	0	3257	154	0
46	VN	3366	0	3257	159	0
46	WB	3366	0	3257	143	0
46	WD	3366	0	3257	144	0
46	WF	3366	0	3257	144	0
46	WH	3366	0	3257	117	0
46	WJ	3366	0	3257	126	0
46	WL	3366	0	3257	123	0
46	WN	3366	0	3257	148	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	AA	32	0	12	3	0
47	AC	32	0	12	1	0
47	AE	32	0	12	0	0
47	AG	32	0	12	1	0
47	AI	32	0	12	1	0
47	AK	32	0	12	1	0
47	AM	32	0	12	2	0
47	BA	32	0	12	1	0
47	BC	32	0	12	0	0
47	BE	32	0	12	4	0
47	BG	32	0	12	1	0
47	BI	32	0	12	3	0
47	BK	32	0	12	1	0
47	BM	32	0	12	1	0
47	CA	32	0	12	2	0
47	CC	32	0	12	1	0
47	CE	32	0	12	1	0
47	CG	32	0	12	2	0
47	CI	32	0	12	2	0
47	CK	32	0	12	1	0
47	CM	32	0	12	1	0
47	DA	32	0	12	2	0
47	DC	32	0	12	3	0
47	DE	32	0	12	2	0
47	DG	32	0	12	3	0
47	DI	32	0	12	4	0
47	DK	32	0	12	3	0
47	DM	32	0	12	2	0
47	EA	32	0	12	2	0
47	EC	32	0	12	3	0
47	EE	32	0	12	1	0
47	EG	32	0	12	2	0
47	EI	32	0	12	1	0
47	EK	32	0	12	3	0
47	EM	32	0	12	2	0
47	FA	32	0	12	3	0
47	FC	32	0	12	2	0
47	FE	32	0	12	1	0
47	FG	32	0	12	0	0
47	FI	32	0	12	0	0
47	FK	32	0	12	1	0
47	FM	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	GA	32	0	12	0	0
47	GC	32	0	12	1	0
47	GE	32	0	12	1	0
47	GG	32	0	12	1	0
47	GI	32	0	12	1	0
47	GK	32	0	12	1	0
47	GM	32	0	12	2	0
47	HA	32	0	12	1	0
47	HC	32	0	12	0	0
47	HE	32	0	12	2	0
47	HG	32	0	12	1	0
47	HI	32	0	12	0	0
47	HK	32	0	12	0	0
47	HM	32	0	12	1	0
47	IA	32	0	12	0	0
47	IC	32	0	12	0	0
47	IE	32	0	12	3	0
47	IG	32	0	12	2	0
47	II	32	0	12	0	0
47	IK	32	0	12	3	0
47	IM	32	0	12	3	0
47	JA	32	0	12	1	0
47	JC	32	0	12	2	0
47	JE	32	0	12	0	0
47	JG	32	0	12	2	0
47	JI	32	0	12	1	0
47	JK	32	0	12	2	0
47	JM	32	0	12	0	0
47	KA	32	0	12	2	0
47	KC	32	0	12	2	0
47	KE	32	0	12	2	0
47	KG	32	0	12	2	0
47	KI	32	0	12	1	0
47	KK	32	0	12	0	0
47	KM	32	0	12	3	0
47	LA	32	0	12	1	0
47	LC	32	0	12	3	0
47	LE	32	0	12	0	0
47	LG	32	0	12	2	0
47	LI	32	0	12	1	0
47	LK	32	0	12	2	0
47	LM	32	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	MA	32	0	12	0	0
47	MC	32	0	12	1	0
47	ME	32	0	12	1	0
47	MG	32	0	12	0	0
47	MI	32	0	12	0	0
47	MK	32	0	12	0	0
47	MM	32	0	12	4	0
47	NA	32	0	12	3	0
47	NC	32	0	12	0	0
47	NE	32	0	12	1	0
47	NG	32	0	12	1	0
47	NI	32	0	12	1	0
47	NK	32	0	12	1	0
47	NM	32	0	12	2	0
47	OA	32	0	12	0	0
47	OC	32	0	12	1	0
47	OF	32	0	12	4	0
47	OG	32	0	12	4	0
47	OI	32	0	12	3	0
47	OK	32	0	12	1	0
47	OM	32	0	12	1	0
47	PA	32	0	12	2	0
47	PD	32	0	12	3	0
47	PE	32	0	12	1	0
47	PG	32	0	12	3	0
47	PI	32	0	12	4	0
47	PK	32	0	12	4	0
47	PM	32	0	12	2	0
47	QA	32	0	12	2	0
47	QC	32	0	12	3	0
47	QE	32	0	12	4	0
47	QG	32	0	12	5	0
47	QI	32	0	12	3	0
47	QK	32	0	12	2	0
47	QM	32	0	12	2	0
47	RA	32	0	12	2	0
47	RC	32	0	12	3	0
47	RE	32	0	12	3	0
47	RG	32	0	12	2	0
47	RI	32	0	12	1	0
47	RK	32	0	12	3	0
47	RM	32	0	12	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	SA	32	0	12	2	0
47	SC	32	0	12	2	0
47	SE	32	0	12	2	0
47	SG	32	0	12	0	0
47	SI	32	0	12	1	0
47	SK	32	0	12	4	0
47	SM	32	0	12	1	0
47	TA	32	0	12	2	0
47	TC	32	0	12	3	0
47	TE	32	0	12	1	0
47	TG	32	0	12	1	0
47	TI	32	0	12	1	0
47	TK	32	0	12	2	0
47	TM	32	0	12	3	0
47	UA	32	0	12	2	0
47	UC	32	0	12	1	0
47	UE	32	0	12	3	0
47	UG	32	0	12	1	0
47	UI	32	0	12	3	0
47	UK	32	0	12	0	0
47	UM	32	0	12	1	0
47	VA	32	0	12	3	0
47	VC	32	0	12	3	0
47	VE	32	0	12	4	0
47	VG	32	0	12	4	0
47	VI	32	0	12	0	0
47	VK	32	0	12	1	0
47	VM	32	0	12	2	0
47	WA	32	0	12	3	0
47	WC	32	0	12	0	0
47	WE	32	0	12	1	0
47	WG	32	0	12	1	0
47	WI	32	0	12	3	0
47	WK	32	0	12	3	0
47	WM	32	0	12	1	0
48	AA	1	0	0	0	0
48	AC	1	0	0	0	0
48	AE	1	0	0	0	0
48	AG	1	0	0	0	0
48	AI	1	0	0	0	0
48	AK	1	0	0	0	0
48	AM	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	BA	1	0	0	0	0
48	BC	1	0	0	0	0
48	BE	1	0	0	0	0
48	BG	1	0	0	0	0
48	BI	1	0	0	0	0
48	BK	1	0	0	0	0
48	BM	1	0	0	0	0
48	CA	1	0	0	0	0
48	CC	1	0	0	0	0
48	CE	1	0	0	0	0
48	CG	1	0	0	0	0
48	CI	1	0	0	0	0
48	CK	1	0	0	0	0
48	CM	1	0	0	0	0
48	DA	1	0	0	0	0
48	DC	1	0	0	0	0
48	DE	1	0	0	0	0
48	DG	1	0	0	0	0
48	DI	1	0	0	0	0
48	DK	1	0	0	0	0
48	DM	1	0	0	0	0
48	EA	1	0	0	0	0
48	EC	1	0	0	0	0
48	EE	1	0	0	0	0
48	EG	1	0	0	0	0
48	EI	1	0	0	0	0
48	EK	1	0	0	0	0
48	EM	1	0	0	0	0
48	FA	1	0	0	0	0
48	FC	1	0	0	0	0
48	FE	1	0	0	0	0
48	FG	1	0	0	0	0
48	FI	1	0	0	0	0
48	FL	1	0	0	0	0
48	FM	1	0	0	0	0
48	GB	1	0	0	0	0
48	GC	1	0	0	0	0
48	GE	1	0	0	0	0
48	GG	1	0	0	0	0
48	GI	1	0	0	0	0
48	GL	1	0	0	0	0
48	GN	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	HA	1	0	0	0	0
48	HC	1	0	0	0	0
48	HE	1	0	0	0	0
48	HG	1	0	0	0	0
48	HI	1	0	0	0	0
48	HK	1	0	0	0	0
48	HM	1	0	0	0	0
48	IA	1	0	0	0	0
48	IC	1	0	0	0	0
48	IE	1	0	0	0	0
48	IG	1	0	0	0	0
48	II	1	0	0	0	0
48	IK	1	0	0	0	0
48	IM	1	0	0	0	0
48	JA	1	0	0	0	0
48	JC	1	0	0	0	0
48	JE	1	0	0	0	0
48	JG	1	0	0	0	0
48	JI	1	0	0	0	0
48	JK	1	0	0	0	0
48	JM	1	0	0	0	0
48	KA	1	0	0	0	0
48	KC	1	0	0	0	0
48	KE	1	0	0	0	0
48	KG	1	0	0	0	0
48	KI	1	0	0	0	0
48	KK	1	0	0	0	0
48	KM	1	0	0	0	0
48	LA	1	0	0	0	0
48	LC	1	0	0	0	0
48	LE	1	0	0	0	0
48	LG	1	0	0	0	0
48	LI	1	0	0	0	0
48	LK	1	0	0	0	0
48	LM	1	0	0	0	0
48	MA	1	0	0	0	0
48	MC	1	0	0	0	0
48	ME	1	0	0	0	0
48	MG	1	0	0	0	0
48	MI	1	0	0	0	0
48	MK	1	0	0	0	0
48	MM	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	NA	1	0	0	0	0
48	ND	1	0	0	0	0
48	NE	1	0	0	0	0
48	NG	1	0	0	0	0
48	NI	1	0	0	0	0
48	NK	1	0	0	0	0
48	NM	1	0	0	0	0
48	OA	1	0	0	0	0
48	OC	1	0	0	0	0
48	OE	1	0	0	0	0
48	OG	1	0	0	0	0
48	OI	1	0	0	0	0
48	OK	1	0	0	0	0
48	OM	1	0	0	0	0
48	PA	1	0	0	0	0
48	PC	1	0	0	0	0
48	PE	1	0	0	0	0
48	PG	1	0	0	0	0
48	PI	1	0	0	0	0
48	PK	1	0	0	0	0
48	PN	1	0	0	0	0
48	QA	1	0	0	0	0
48	QC	1	0	0	0	0
48	QE	1	0	0	0	0
48	QG	1	0	0	0	0
48	QI	1	0	0	0	0
48	QK	1	0	0	0	0
48	QM	1	0	0	0	0
48	RA	1	0	0	0	0
48	RC	1	0	0	0	0
48	RD	1	0	0	0	0
48	RG	1	0	0	0	0
48	RI	1	0	0	0	0
48	RK	1	0	0	0	0
48	RM	1	0	0	0	0
48	SA	1	0	0	0	0
48	SC	1	0	0	0	0
48	SE	1	0	0	0	0
48	SG	1	0	0	0	0
48	SI	1	0	0	0	0
48	SK	1	0	0	0	0
48	SM	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
48	TA	1	0	0	0	0
48	TB	1	0	0	0	0
48	TE	1	0	0	0	0
48	TF	1	0	0	0	0
48	TI	1	0	0	0	0
48	TK	1	0	0	0	0
48	TL	1	0	0	0	0
48	UA	1	0	0	0	0
48	UC	1	0	0	0	0
48	UE	1	0	0	0	0
48	UG	1	0	0	0	0
48	UI	1	0	0	0	0
48	UK	1	0	0	0	0
48	UM	1	0	0	0	0
48	VA	1	0	0	0	0
48	VC	1	0	0	0	0
48	VE	1	0	0	0	0
48	VG	1	0	0	0	0
48	VI	1	0	0	0	0
48	VK	1	0	0	0	0
48	VM	1	0	0	0	0
48	WA	1	0	0	0	0
48	WC	1	0	0	0	0
48	WE	1	0	0	0	0
48	WG	1	0	0	0	0
48	WI	1	0	0	0	0
48	WK	1	0	0	0	0
48	WM	1	0	0	0	0
49	AB	28	0	12	0	0
49	AD	28	0	12	0	0
49	AF	28	0	12	1	0
49	AH	28	0	12	2	0
49	AJ	28	0	12	2	0
49	AL	28	0	12	1	0
49	AN	28	0	12	1	0
49	BB	28	0	12	0	0
49	BD	28	0	12	2	0
49	BF	28	0	12	4	0
49	BH	28	0	12	2	0
49	BJ	28	0	12	2	0
49	BL	28	0	12	2	0
49	BN	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	CB	28	0	12	2	0
49	CD	28	0	12	2	0
49	CF	28	0	12	6	0
49	CH	28	0	12	1	0
49	CJ	28	0	12	4	0
49	CL	28	0	12	0	0
49	CN	28	0	12	0	0
49	DB	28	0	12	0	0
49	DD	28	0	12	2	0
49	DF	28	0	12	1	0
49	DH	28	0	12	2	0
49	DJ	28	0	12	2	0
49	DL	28	0	12	1	0
49	DN	28	0	12	1	0
49	EB	28	0	12	0	0
49	ED	28	0	12	1	0
49	EF	28	0	12	1	0
49	EH	28	0	12	4	0
49	EJ	28	0	12	0	0
49	EL	28	0	12	3	0
49	EN	28	0	12	5	0
49	FB	28	0	12	0	0
49	FD	28	0	12	0	0
49	FF	28	0	12	2	0
49	FH	28	0	12	4	0
49	FJ	28	0	12	1	0
49	FL	28	0	12	2	0
49	FN	28	0	12	1	0
49	GB	28	0	12	0	0
49	GD	28	0	12	2	0
49	GF	28	0	12	1	0
49	GH	28	0	12	0	0
49	GJ	28	0	12	1	0
49	GL	28	0	12	3	0
49	GN	28	0	12	1	0
49	HB	28	0	12	1	0
49	HD	28	0	12	1	0
49	HF	28	0	12	2	0
49	HH	28	0	12	2	0
49	HJ	28	0	12	2	0
49	HL	28	0	12	1	0
49	HN	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	IB	28	0	12	1	0
49	ID	28	0	12	0	0
49	IF	28	0	12	1	0
49	IH	28	0	12	3	0
49	IJ	28	0	12	3	0
49	IL	28	0	12	4	0
49	IN	28	0	12	3	0
49	JB	28	0	12	0	0
49	JD	28	0	12	1	0
49	JF	28	0	12	1	0
49	JH	28	0	12	1	0
49	JJ	28	0	12	2	0
49	JL	28	0	12	1	0
49	JN	28	0	12	1	0
49	KB	28	0	12	0	0
49	KD	28	0	12	0	0
49	KF	28	0	12	1	0
49	KH	28	0	12	1	0
49	KJ	28	0	12	0	0
49	KL	28	0	12	0	0
49	KN	28	0	12	0	0
49	LB	28	0	12	0	0
49	LD	28	0	12	0	0
49	LF	28	0	12	0	0
49	LH	28	0	12	0	0
49	LJ	28	0	12	2	0
49	LL	28	0	12	1	0
49	LN	28	0	12	2	0
49	MB	28	0	12	0	0
49	MD	28	0	12	0	0
49	MF	28	0	12	2	0
49	MH	28	0	12	1	0
49	MJ	28	0	12	3	0
49	ML	28	0	12	0	0
49	MN	28	0	12	0	0
49	NB	28	0	12	1	0
49	ND	28	0	12	0	0
49	NF	28	0	12	0	0
49	NH	28	0	12	0	0
49	NJ	28	0	12	1	0
49	NL	28	0	12	0	0
49	NN	28	0	12	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	OB	28	0	12	2	0
49	OD	28	0	12	2	0
49	OF	28	0	12	3	0
49	OH	28	0	12	0	0
49	OJ	28	0	12	2	0
49	OL	28	0	12	1	0
49	ON	28	0	12	2	0
49	PB	28	0	12	1	0
49	PD	28	0	12	0	0
49	PF	28	0	12	0	0
49	PH	28	0	12	2	0
49	PJ	28	0	12	1	0
49	PL	28	0	12	0	0
49	PN	28	0	12	3	0
49	QB	28	0	12	1	0
49	QD	28	0	12	1	0
49	QF	28	0	12	6	0
49	QH	28	0	12	1	0
49	QJ	28	0	12	3	0
49	QL	28	0	12	1	0
49	QN	28	0	12	1	0
49	RB	28	0	12	1	0
49	RD	28	0	12	0	0
49	RF	28	0	12	0	0
49	RH	28	0	12	1	0
49	RJ	28	0	12	3	0
49	RL	28	0	12	1	0
49	RN	28	0	12	1	0
49	SB	28	0	12	1	0
49	SD	28	0	12	0	0
49	SF	28	0	12	1	0
49	SH	28	0	12	0	0
49	SJ	28	0	12	1	0
49	SL	28	0	12	0	0
49	SN	28	0	12	1	0
49	TB	28	0	12	0	0
49	TD	28	0	12	1	0
49	TF	28	0	12	1	0
49	TH	28	0	12	1	0
49	TJ	28	0	12	1	0
49	TL	28	0	12	1	0
49	TN	28	0	12	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
49	UB	28	0	12	0	0
49	UD	28	0	12	2	0
49	UF	28	0	12	5	0
49	UH	28	0	12	1	0
49	UJ	28	0	12	3	0
49	UL	28	0	12	2	0
49	UN	28	0	12	1	0
49	VB	28	0	12	1	0
49	VD	28	0	12	1	0
49	VF	28	0	12	2	0
49	VH	28	0	12	2	0
49	VJ	28	0	12	4	0
49	VL	28	0	12	3	0
49	VN	28	0	12	2	0
49	WB	28	0	12	0	0
49	WD	28	0	12	3	0
49	WF	28	0	12	1	0
49	WH	28	0	12	2	0
49	WJ	28	0	12	0	0
49	WL	28	0	12	2	0
49	WN	28	0	12	0	0
All	All	1325153	0	1283777	35558	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 14.

All (35558) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:281:TYR:CD1	46:DF:281:TYR:CG	1.80	1.67
46:DF:281:TYR:CG	46:DF:281:TYR:CD2	1.80	1.65
45:UA:282:TYR:CD1	45:UA:282:TYR:CG	1.83	1.64
45:UA:282:TYR:CG	45:UA:282:TYR:CD2	1.89	1.60
46:DF:281:TYR:CE2	46:DF:281:TYR:CZ	1.91	1.57
45:UA:282:TYR:CE1	45:UA:282:TYR:CZ	1.94	1.55
46:CF:86:ARG:CD	46:CF:86:ARG:NE	1.70	1.54
46:DF:281:TYR:CZ	46:DF:281:TYR:CE1	1.91	1.54
45:UA:282:TYR:CZ	45:UA:282:TYR:CE2	1.94	1.53
46:CF:86:ARG:NE	46:DF:281:TYR:CE1	1.88	1.38
46:CF:86:ARG:NE	46:DF:281:TYR:CD1	1.93	1.33
23:1O:266:GLU:C	45:UA:282:TYR:CD2	2.03	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:86:ARG:NE	46:DF:281:TYR:CZ	1.98	1.32
23:1O:267:ALA:N	45:UA:282:TYR:CD1	2.00	1.30
23:1O:266:GLU:O	45:UA:282:TYR:CE2	1.89	1.24
46:CF:86:ARG:NE	46:DF:281:TYR:CE2	2.08	1.21
23:1O:266:GLU:CA	45:UA:282:TYR:CD2	2.23	1.21
46:DF:281:TYR:CD1	46:DF:281:TYR:CE1	2.28	1.21
23:1O:266:GLU:C	45:UA:282:TYR:CE2	2.14	1.18
45:UA:282:TYR:CD1	45:UA:282:TYR:CE1	2.31	1.18
23:1O:266:GLU:CA	45:UA:282:TYR:CE2	2.28	1.16
46:CF:86:ARG:NE	46:DF:281:TYR:CD2	2.14	1.15
46:CF:86:ARG:NE	46:DF:281:TYR:CG	2.14	1.15
46:CF:86:ARG:CD	46:DF:281:TYR:CD2	2.30	1.13
23:1O:266:GLU:C	45:UA:282:TYR:CZ	2.22	1.11
46:DF:281:TYR:CD2	46:DF:281:TYR:CE2	2.38	1.11
46:CF:86:ARG:HD3	46:DF:281:TYR:CE2	1.87	1.09
46:CH:70:PRO:O	46:CH:74:ASP:HB2	1.53	1.09
44:8R:87:UNK:O	44:8R:89:UNK:N	1.87	1.08
46:CF:86:ARG:CD	46:DF:281:TYR:CE2	2.38	1.06
23:1O:266:GLU:C	45:UA:282:TYR:CE1	2.29	1.05
23:1O:266:GLU:N	45:UA:282:TYR:CG	2.25	1.04
23:1O:266:GLU:C	45:UA:282:TYR:CG	2.29	1.04
45:GI:288:VAL:HG11	45:GI:327:ASP:HB3	1.40	1.04
45:KG:222:PRO:HD2	46:KH:324:LYS:HE2	1.36	1.03
16:3B:238:TYR:HA	45:JG:84:ARG:HH12	1.22	1.03
46:CF:86:ARG:CZ	46:DF:281:TYR:CD2	2.42	1.03
10:1Q:17:ILE:HD11	46:WD:125:GLU:HB3	1.40	1.02
23:1O:266:GLU:HA	45:UA:282:TYR:CD2	1.90	1.02
46:CF:86:ARG:CZ	46:DF:281:TYR:CE2	2.45	1.00
23:1O:266:GLU:HA	45:UA:282:TYR:CE2	1.54	1.00
23:1O:267:ALA:N	45:UA:282:TYR:CE1	2.30	1.00
23:1O:266:GLU:HB3	45:UA:282:TYR:CZ	1.95	0.99
45:GE:288:VAL:HG11	45:GE:327:ASP:HB3	1.39	0.99
46:BH:2:ARG:HB2	46:BH:131:GLN:HE22	1.26	0.98
27:2C:183:SER:HA	15:4X:54:ARG:HH22	1.29	0.98
46:RL:259:PRO:HD2	46:RL:260:PHE:H	1.29	0.98
37:5H:26:GLY:HA2	45:OK:221:ARG:HH11	1.28	0.97
23:1O:266:GLU:C	45:UA:282:TYR:CD1	2.37	0.97
35:4S:209:ARG:HH21	46:WD:119:VAL:HG13	1.28	0.97
46:KN:70:PRO:O	46:KN:74:ASP:HB2	1.65	0.96
45:GG:288:VAL:HG11	45:GG:327:ASP:HB3	1.45	0.96
46:QF:209:ASP:HA	46:QF:213:ARG:HH21	1.27	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1O:266:GLU:O	45:UA:282:TYR:CD2	2.19	0.94
19:1J:140:PHE:HE2	45:IE:369:ALA:HB1	1.30	0.94
45:VI:288:VAL:HG21	45:VI:327:ASP:HB3	1.48	0.94
46:CF:86:ARG:HD2	46:DF:281:TYR:CG	2.04	0.94
23:1O:269:GLN:H	45:UA:282:TYR:HD2	1.09	0.93
23:1O:266:GLU:CA	45:UA:282:TYR:CZ	2.51	0.93
21:1L:553:MET:O	46:BF:320:ARG:NH2	2.01	0.93
46:IN:362:LYS:HD3	46:IN:363:MET:HE2	1.50	0.93
45:LI:31:GLN:HG3	45:LI:37:PRO:HG3	1.47	0.93
20:1K:215:VAL:HG13	45:GA:370:LYS:HE3	1.47	0.93
45:FA:288:VAL:HG11	45:FA:327:ASP:HB3	1.51	0.93
45:RE:280:LYS:HZ3	45:RE:283:HIS:HB2	1.34	0.93
46:JJ:77:ARG:HH22	46:JJ:83:GLN:HG3	1.34	0.92
46:OB:86:ARG:HH12	46:PB:281:TYR:HB3	1.33	0.92
45:WI:288:VAL:HG11	45:WI:327:ASP:HB3	1.49	0.92
45:FI:329:ASN:HD21	46:FL:175:VAL:HG12	1.35	0.92
45:TC:91:GLN:HG3	45:TC:121:ARG:HD2	1.49	0.92
46:BN:318:ARG:HD2	46:BN:358:PRO:HD3	1.51	0.91
46:FL:190:HIS:HD2	46:FL:411:ALA:HA	1.34	0.91
46:LF:362:LYS:HG2	46:LF:363:MET:HG3	1.53	0.91
46:GF:290:THR:HA	46:GF:293:MET:HG2	1.53	0.91
46:IL:248:SER:HA	46:IL:252:LYS:HD3	1.53	0.91
45:WM:119:LEU:HD11	45:WM:156:ARG:HD3	1.51	0.91
11:1S:111:LYS:HZ1	46:MF:157:GLU:HG3	1.13	0.91
46:CF:86:ARG:CD	46:DF:281:TYR:CG	2.53	0.91
45:IA:288:VAL:HG11	45:IA:327:ASP:HB3	1.53	0.90
26:1W:189:ARG:HH12	45:LA:45:GLY:H	1.17	0.90
45:CK:352:LYS:HZ1	46:CL:178:THR:HA	1.37	0.90
45:IA:261:PRO:HD2	45:IA:262:TYR:H	1.33	0.90
46:QH:74:ASP:HA	46:QH:77:ARG:HE	1.36	0.90
41:6H:176:ASN:O	41:6H:180:ASN:HB2	1.71	0.90
45:PG:352:LYS:HZ3	46:PJ:179:VAL:H	1.16	0.90
46:UL:178:THR:HB	46:UL:181:GLU:HG3	1.54	0.90
46:CF:86:ARG:NH1	46:DF:281:TYR:CD2	2.40	0.89
45:UM:288:VAL:HG21	45:UM:327:ASP:HB3	1.55	0.89
46:QJ:321:MET:SD	45:QK:221:ARG:NH2	2.45	0.89
45:WA:288:VAL:HG21	45:WA:327:ASP:HB3	1.52	0.89
6:0F:70:VAL:HG23	46:ED:362:LYS:HZ2	1.34	0.89
23:1O:266:GLU:CA	45:UA:282:TYR:CG	2.54	0.89
45:FG:288:VAL:HG11	45:FG:327:ASP:HB3	1.53	0.89
46:DL:285:THR:HG22	46:DL:287:PRO:HD2	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:329:ASN:HD21	46:WF:175:VAL:HG12	1.38	0.89
46:QD:267:MET:HE3	46:QD:301:CYS:HB2	1.55	0.89
45:QG:352:LYS:HZ2	46:QH:179:VAL:H	1.18	0.89
23:1O:267:ALA:N	45:UA:282:TYR:CG	2.39	0.89
45:UM:254:GLU:HG2	46:UN:98:GLY:HA2	1.51	0.89
23:1O:266:GLU:CA	45:UA:282:TYR:CD1	2.56	0.89
46:CF:86:ARG:CZ	46:DF:281:TYR:CG	2.56	0.89
45:WC:178:SER:OG	46:WD:347:ASN:ND2	2.06	0.89
46:WB:332:ASN:OD1	46:WB:336:LYS:NZ	2.06	0.88
45:BK:326:LYS:HG3	46:BN:220:PRO:HD2	1.55	0.88
46:CJ:324:LYS:HZ1	45:CK:221:ARG:HA	1.37	0.88
46:RL:376:GLU:HB3	46:RL:380:ARG:HH12	1.37	0.88
45:DI:121:ARG:HH21	45:DI:124:LYS:HE2	1.38	0.88
46:CL:200:MET:HG2	46:CL:266:PHE:HB2	1.56	0.88
46:DB:347:ASN:ND2	45:DC:178:SER:OG	2.07	0.88
46:JD:406:MET:SD	46:ND:306:ARG:NH1	2.46	0.88
45:OM:397:LEU:HD11	46:ON:346:PRO:HD3	1.55	0.88
45:RG:352:LYS:HZ1	46:RH:179:VAL:H	1.19	0.88
46:SB:55:THR:HG23	46:TB:283:ALA:HA	1.55	0.88
46:VD:299:MET:HG3	46:VD:301:CYS:H	1.39	0.88
45:GI:210:TYR:HH	46:GJ:323:THR:HG1	1.15	0.88
46:RL:324:LYS:HG3	45:RM:210:TYR:HE1	1.38	0.88
11:OS:103:LYS:HE3	46:MB:261:PRO:HB3	1.55	0.87
45:HI:288:VAL:HG11	45:HI:327:ASP:HB3	1.54	0.87
45:PA:288:VAL:HG11	45:PA:327:ASP:HB3	1.54	0.87
45:QK:352:LYS:HZ1	46:QL:179:VAL:H	1.19	0.87
37:5H:121:GLU:OE1	45:OM:370:LYS:NZ	2.07	0.87
45:EM:261:PRO:HD2	45:EM:262:TYR:H	1.37	0.87
46:CF:86:ARG:CZ	46:DF:281:TYR:CZ	2.58	0.87
45:IE:258:ASN:HD22	45:IE:352:LYS:HD2	1.40	0.87
23:1O:266:GLU:CB	45:UA:282:TYR:CZ	2.58	0.87
46:AN:173:PRO:HG2	46:AN:380:ARG:HE	1.40	0.87
45:FK:90:GLU:HG3	45:FK:121:ARG:HH12	1.39	0.86
45:PI:288:VAL:HG21	45:PI:327:ASP:HB3	1.57	0.86
45:TC:211:ASP:HB3	45:TC:215:ARG:HH21	1.40	0.86
40:6G:93:LYS:HZ1	45:UK:114:ILE:HG13	1.40	0.86
46:CF:86:ARG:HD2	46:DF:281:TYR:CD2	2.10	0.86
46:DJ:325:GLU:H	45:DK:221:ARG:HH12	1.19	0.86
46:ED:323:THR:HG1	45:EE:210:TYR:HH	1.23	0.86
45:KA:286:LEU:HD21	45:KA:371:VAL:HG13	1.57	0.86
46:TJ:299:MET:HG3	46:TJ:301:CYS:H	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UJ:321:MET:HA	45:UK:221:ARG:HH22	1.38	0.86
46:VF:226:ASN:HD21	49:VF:501:GDP:HN1	1.22	0.86
1:0A:129:PRO:HD3	46:AB:362:LYS:HD2	1.55	0.86
45:GA:288:VAL:HG11	45:GA:327:ASP:HB3	1.55	0.86
46:NL:178:THR:HG22	46:NL:180:VAL:H	1.38	0.86
45:UA:282:TYR:CD2	45:UA:282:TYR:CE2	2.63	0.86
46:VB:132:GLY:HA3	46:VB:163:ILE:O	1.75	0.86
23:1O:266:GLU:CA	45:UA:282:TYR:CE1	2.59	0.86
46:CB:324:LYS:HE2	45:CC:222:PRO:HD2	1.58	0.86
46:NB:118:ASP:OD1	46:NB:122:LYS:NZ	2.09	0.86
46:UL:132:GLY:HA3	46:UL:163:ILE:O	1.74	0.86
46:HN:248:SER:HA	46:HN:252:LYS:HD3	1.55	0.86
45:LC:221:ARG:HH22	46:LD:321:MET:HA	1.39	0.86
45:NE:288:VAL:HG21	45:NE:327:ASP:HB3	1.58	0.86
46:OB:237:THR:HG23	46:OB:241:ARG:HH12	1.41	0.86
46:PD:248:SER:HA	46:PD:252:LYS:HD3	1.57	0.86
19:1J:119:LEU:HA	45:IE:221:ARG:HD2	1.56	0.86
45:OE:221:ARG:NH1	46:OF:325:GLU:OE1	2.07	0.86
45:WM:177:VAL:HG22	46:WN:331:LEU:HD11	1.57	0.86
4:2D:54:PHE:HA	45:EK:221:ARG:HH12	1.38	0.86
46:IL:200:MET:HG2	46:IL:266:PHE:HB2	1.58	0.86
45:AK:326:LYS:HE3	46:AN:220:PRO:HG2	1.56	0.86
45:GG:258:ASN:HD22	45:GG:352:LYS:HD2	1.38	0.85
46:NB:191:GLN:O	46:NB:195:ASN:ND2	2.09	0.85
46:OB:319:GLY:HA2	46:OB:357:PRO:HG3	1.57	0.85
45:BA:90:GLU:OE1	45:CA:280:LYS:NZ	2.09	0.85
7:0G:19:ILE:HD12	46:IL:48:ASN:HD22	1.41	0.85
46:MJ:7:ILE:HG22	46:MJ:64:ILE:HB	1.57	0.85
46:SB:15:GLN:OE1	46:SB:19:LYS:NZ	2.07	0.85
45:NA:349:THR:HG1	46:ND:176:SER:HG	1.24	0.85
46:RL:267:MET:HB2	46:RL:299:MET:HE1	1.59	0.85
46:TD:46:ARG:NH2	45:TE:76:ASP:OD2	2.08	0.85
46:CB:164:MET:HB3	46:CB:197:ASP:H	1.42	0.85
46:IJ:86:ARG:HH21	45:JG:284:GLU:HG2	1.42	0.85
45:MC:326:LYS:HD3	46:MF:220:PRO:HG2	1.58	0.85
45:VA:121:ARG:HH21	45:VA:124:LYS:HD2	1.42	0.85
45:QG:319:TYR:HB3	45:QG:323:VAL:HG11	1.56	0.85
45:JK:292:THR:HG21	45:JK:331:SER:HB2	1.58	0.85
31:2I:134:LYS:HZ3	46:GD:328:GLU:HG3	1.36	0.85
46:BB:273:LEU:H	46:BB:292:GLN:HE22	1.25	0.85
46:JD:8:GLN:HE21	46:JD:65:LEU:HD22	1.42	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UA:288:VAL:HG11	45:UA:327:ASP:HB3	1.58	0.85
45:CE:259:LEU:HB3	45:CE:268:MET:HE1	1.59	0.85
45:LA:123:ARG:HH22	45:LA:161:TYR:HE2	1.24	0.84
46:QH:2:ARG:HH12	45:QI:97:GLU:HA	1.40	0.84
45:WC:324:VAL:HG11	45:WC:326:LYS:HE2	1.58	0.84
46:CF:86:ARG:CZ	46:DF:281:TYR:CD1	2.61	0.84
45:PK:288:VAL:HG21	45:PK:327:ASP:HB3	1.59	0.84
45:TM:301:MET:HG3	45:TM:303:ALA:H	1.42	0.84
21:1L:781:MET:SD	46:BD:320:ARG:NH1	2.50	0.84
45:BG:123:ARG:NH1	45:BG:127:ASP:OD1	2.10	0.84
46:HJ:226:ASN:HD21	49:HJ:501:GDP:HN1	1.21	0.84
45:RM:69:ASP:HB3	45:RM:75:ILE:HD11	1.58	0.84
46:UJ:350:LYS:HZ3	45:UK:181:VAL:H	1.23	0.84
45:IG:36:MET:HG3	45:IG:37:PRO:HD2	1.57	0.84
46:UJ:226:ASN:HD21	49:UJ:501:GDP:HN1	1.21	0.84
14:2V:86:ARG:NH2	46:LF:190:HIS:O	2.10	0.84
45:BC:222:PRO:HD2	46:BD:324:LYS:HE3	1.58	0.84
45:OA:55:GLU:HG3	45:OA:57:GLY:H	1.42	0.84
46:OF:58:ARG:NH1	46:OF:59:TYR:O	2.10	0.84
45:SE:75:ILE:HD11	45:SE:92:LEU:HB3	1.58	0.84
46:WN:166:THR:OG1	46:WN:199:CYS:SG	2.35	0.84
35:4S:81:HIS:H	35:4S:86:LYS:HE2	1.42	0.84
46:EB:289:LEU:HD11	46:EB:363:MET:HB3	1.58	0.84
45:SE:280:LYS:HA	45:SE:283:HIS:HD2	1.41	0.84
46:TJ:67:ASP:O	46:TJ:92:PHE:HA	1.78	0.84
37:5F:154:TYR:HE1	46:NH:35:THR:HG23	1.43	0.84
46:NH:391:ARG:HE	46:NH:393:ALA:HB3	1.43	0.84
46:OB:226:ASN:HD21	49:OB:501:GDP:HN1	1.24	0.84
45:WC:239:THR:HG23	45:WC:243:ARG:HH12	1.43	0.84
46:AN:190:HIS:HD2	46:AN:411:ALA:HA	1.42	0.84
45:DK:69:ASP:HB3	45:DK:75:ILE:HD11	1.59	0.84
46:IB:273:LEU:H	46:IB:292:GLN:HE22	1.24	0.84
45:VE:288:VAL:HG21	45:VE:327:ASP:HB3	1.59	0.84
26:2W:189:ARG:HB2	45:KM:46:ASP:HA	1.57	0.84
45:BE:288:VAL:HG11	45:BE:327:ASP:HB3	1.57	0.84
46:PN:215:LEU:HD22	46:PN:217:LEU:HD23	1.58	0.84
45:VC:398:MET:HE1	46:VD:346:PRO:HD2	1.59	0.84
46:FD:262:ARG:NH2	46:FD:421:GLU:OE2	2.11	0.83
45:JM:406:HIS:HA	45:JM:409:VAL:HG22	1.60	0.83
45:PA:352:LYS:NZ	46:PD:178:THR:OG1	2.10	0.83
46:WF:73:MET:HA	46:WF:76:VAL:HG12	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EB:318:ARG:HB2	46:EB:364:ALA:HB3	1.59	0.83
46:FJ:242:PHE:HB3	46:FJ:356:ILE:HD13	1.60	0.83
46:SH:67:ASP:O	46:SH:92:PHE:HA	1.77	0.83
46:CN:86:ARG:HE	46:CN:87:PRO:HD2	1.42	0.83
46:EJ:318:ARG:HB3	46:EJ:357:PRO:HA	1.60	0.83
46:IB:86:ARG:HE	46:IB:87:PRO:HD2	1.41	0.83
45:VG:288:VAL:HG21	45:VG:327:ASP:HB3	1.60	0.83
26:2W:183:SER:HG	45:KM:45:GLY:N	1.74	0.83
46:BB:200:MET:HG2	46:BB:266:PHE:HB2	1.60	0.83
45:BC:288:VAL:HG11	45:BC:327:ASP:HB3	1.61	0.83
46:IH:6:HIS:O	46:IH:63:ALA:HA	1.78	0.83
45:LA:301:MET:HG3	45:LA:303:ALA:H	1.44	0.83
45:LE:259:LEU:HD21	45:LE:316:SER:HB2	1.61	0.83
45:MG:288:VAL:HG11	45:MG:327:ASP:HB3	1.58	0.83
46:RJ:324:LYS:HB2	45:RK:221:ARG:HH12	1.42	0.83
45:VG:320:ARG:HH12	45:VG:360:PRO:HA	1.41	0.83
45:CC:79:ARG:NH2	45:CC:92:LEU:O	2.11	0.83
46:CF:86:ARG:NH1	46:DF:281:TYR:CE2	2.47	0.83
46:EB:324:LYS:HD2	45:EC:210:TYR:HB3	1.61	0.83
45:IM:316:SER:HB3	45:IM:378:ILE:HB	1.59	0.83
19:1J:342:LYS:HZ3	46:IN:276:ARG:HB3	1.43	0.83
46:SB:54:ALA:HA	46:TB:283:ALA:HB2	1.60	0.83
36:5B:140:VAL:O	46:NH:320:ARG:NH2	2.11	0.83
46:AJ:242:PHE:HB3	46:AJ:356:ILE:HD13	1.59	0.83
45:BC:221:ARG:NH1	46:BD:322:SER:OG	2.12	0.83
46:UB:186:THR:HG22	46:UB:190:HIS:HE1	1.44	0.83
46:QL:273:LEU:H	46:QL:292:GLN:HE22	1.26	0.83
46:TH:166:THR:OG1	46:TH:199:CYS:SG	2.35	0.83
45:VA:74:VAL:HG23	45:VA:75:ILE:HD12	1.61	0.83
45:FC:280:LYS:HA	45:FC:283:HIS:HD2	1.42	0.83
46:ID:171:PRO:O	46:ID:380:ARG:NH2	2.11	0.83
45:AK:288:VAL:HG11	45:AK:327:ASP:HB3	1.61	0.83
45:RM:11:GLN:NE2	45:RM:71:GLU:OE2	2.10	0.83
46:UB:321:MET:HG3	45:UC:221:ARG:HH21	1.40	0.83
14:0V:86:ARG:NH2	46:LN:190:HIS:O	2.12	0.82
46:MB:299:MET:HG3	46:MB:301:CYS:H	1.44	0.82
45:NA:96:LYS:HZ2	46:NB:2:ARG:HD3	1.42	0.82
46:PL:207:LEU:HB3	46:PL:225:LEU:HD22	1.61	0.82
45:VE:2:ARG:HH21	45:VE:242:LEU:HD13	1.44	0.82
45:IA:96:LYS:NZ	46:IB:1:MET:SD	2.53	0.82
46:TJ:238:CYS:SG	46:TJ:318:ARG:NH1	2.52	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:221:ARG:NH2	46:WB:322:SER:OG	2.12	0.82
46:WL:273:LEU:H	46:WL:292:GLN:HE22	1.26	0.82
25:3R:382:TYR:HA	46:EL:276:ARG:HE	1.44	0.82
46:BD:226:ASN:HD21	49:BD:501:GDP:HN1	1.24	0.82
46:BF:87:PRO:HA	46:BF:90:PHE:HD2	1.42	0.82
45:QG:9:VAL:HG12	45:QG:68:LEU:HB2	1.61	0.82
46:TF:242:PHE:HB3	46:TF:356:ILE:HD13	1.61	0.82
46:TL:2:ARG:HE	45:TM:97:GLU:HA	1.45	0.82
2:0B:12:LEU:HD21	46:IH:48:ASN:HB3	1.59	0.82
23:1O:266:GLU:CB	45:UA:282:TYR:CE1	2.62	0.82
24:1P:144:GLN:HB3	46:TJ:80:PRO:HG3	1.62	0.82
46:SL:21:TRP:HA	46:SL:24:ILE:HG22	1.60	0.82
46:VD:73:MET:HA	46:VD:76:VAL:HG12	1.59	0.82
45:CM:338:LYS:NZ	45:CM:340:THR:OG1	2.12	0.82
46:GN:273:LEU:H	46:GN:292:GLN:HE22	1.21	0.82
46:WD:164:MET:HB3	46:WD:197:ASP:H	1.43	0.82
40:6G:186:ASN:HB3	45:VE:308:ARG:HH22	1.45	0.82
45:FA:259:LEU:HD23	45:FA:268:MET:HG2	1.61	0.82
45:NE:352:LYS:HE2	46:NH:178:THR:HA	1.59	0.82
46:UJ:319:GLY:HA2	46:UJ:357:PRO:HD3	1.62	0.82
45:BK:288:VAL:HG11	45:BK:327:ASP:HB3	1.62	0.82
45:DI:292:THR:HG21	45:DI:331:SER:HB2	1.62	0.82
45:PE:207:GLU:HA	45:PE:210:TYR:HD2	1.44	0.82
36:5B:54:ARG:NH1	36:5B:55:ALA:O	2.13	0.82
46:FL:242:PHE:HB3	46:FL:356:ILE:HD13	1.61	0.82
46:FN:273:LEU:H	46:FN:292:GLN:HE22	1.27	0.82
11:1S:42:ASN:ND2	45:WC:124:LYS:O	2.12	0.82
46:BH:248:SER:HA	46:BH:252:LYS:HE3	1.61	0.82
45:DM:301:MET:HG3	45:DM:303:ALA:H	1.44	0.82
46:FF:62:ARG:NH2	46:FF:127:CYS:SG	2.53	0.82
45:OK:222:PRO:O	46:OL:324:LYS:NZ	2.13	0.82
45:QG:69:ASP:HB3	45:QG:75:ILE:HD11	1.61	0.82
26:2W:183:SER:HB3	45:KM:46:ASP:HB2	1.59	0.82
46:GL:11:GLN:NE2	49:GL:502:GDP:O2A	2.13	0.82
46:UB:2:ARG:HB2	46:UB:131:GLN:HE21	1.44	0.82
46:CF:86:ARG:CD	46:DF:281:TYR:CZ	2.63	0.81
46:NJ:372:THR:HA	46:NJ:422:TYR:HE1	1.42	0.81
46:RJ:133:PHE:HB2	46:RJ:164:MET:HG2	1.62	0.81
45:JI:72:PRO:HD2	46:JJ:2:ARG:HH21	1.45	0.81
45:PI:326:LYS:HG2	46:PL:212:PHE:HZ	1.45	0.81
46:RF:242:PHE:HB3	46:RF:356:ILE:HD13	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WJ:215:LEU:HD22	46:WJ:217:LEU:HD23	1.61	0.81
19:1J:254:ASN:HB3	45:HI:85:GLN:HE22	1.44	0.81
45:BK:326:LYS:HE3	46:BN:220:PRO:HG2	1.61	0.81
46:CD:347:ASN:ND2	45:CE:178:SER:OG	2.13	0.81
45:DM:9:VAL:HG12	45:DM:68:LEU:HB2	1.62	0.81
46:GD:178:THR:HG22	46:GD:180:VAL:H	1.46	0.81
45:HK:55:GLU:HG3	45:HK:57:GLY:H	1.46	0.81
45:LC:40:LYS:HD3	45:LC:41:THR:N	1.96	0.81
45:PI:398:MET:HE3	46:PJ:346:PRO:HD2	1.62	0.81
46:RF:16:ILE:HD13	46:RF:136:THR:HG21	1.61	0.81
45:WA:292:THR:HG21	45:WA:331:SER:HB3	1.62	0.81
34:5R:305:CYS:SG	34:5R:307:LYS:NZ	2.53	0.81
46:ED:135:ILE:HG13	46:ED:152:ILE:HD11	1.62	0.81
46:LH:238:CYS:SG	46:LH:318:ARG:NH1	2.54	0.81
46:PD:273:LEU:H	46:PD:292:GLN:HE22	1.28	0.81
45:VA:387:VAL:HG12	45:VA:390:ARG:HH21	1.45	0.81
40:6G:201:MET:SD	46:VF:336:LYS:NZ	2.52	0.81
46:BD:1:MET:N	46:BD:48:ASN:OD1	2.14	0.81
46:DL:86:ARG:HH21	46:DL:87:PRO:HG2	1.45	0.81
46:FF:371:SER:O	46:FF:422:TYR:OH	1.99	0.81
46:HH:226:ASN:HD21	49:HH:501:GDP:HN1	1.28	0.81
46:VB:372:THR:O	46:VB:375:GLN:NE2	2.10	0.81
45:VE:31:GLN:HE22	45:VE:37:PRO:HG3	1.46	0.81
35:4S:209:ARG:NH2	46:WD:115:SER:O	2.14	0.81
34:6R:97:CYS:HB3	34:6R:180:ILE:HD13	1.61	0.81
46:NH:388:MET:HA	46:NH:391:ARG:HD3	1.62	0.81
45:UG:31:GLN:HE22	45:UG:37:PRO:HB3	1.43	0.81
46:LF:100:ASN:HB3	46:LF:103:LYS:HB2	1.62	0.81
45:NA:256:GLN:HG2	46:ND:397:TRP:HH2	1.46	0.81
46:SF:242:PHE:HB3	46:SF:356:ILE:HD13	1.60	0.81
46:VD:215:LEU:HB3	46:VD:217:LEU:HD23	1.62	0.81
45:OC:207:GLU:OE1	45:OC:304:LYS:NZ	2.12	0.81
46:RL:299:MET:HG3	46:RL:301:CYS:H	1.45	0.81
35:5S:110:ARG:HH21	35:5S:148:LYS:HD2	1.45	0.81
41:6H:261:LYS:O	41:6H:264:GLN:NE2	2.13	0.81
45:KE:55:GLU:O	45:LE:285:GLN:NE2	2.14	0.81
45:LA:90:GLU:HG2	45:LA:121:ARG:HH12	1.45	0.81
46:PN:318:ARG:HB2	46:PN:364:ALA:HB3	1.63	0.81
45:SK:2:ARG:HH21	45:SK:243:ARG:HA	1.46	0.81
21:2L:645:ASP:HB2	46:CL:362:LYS:HG2	1.62	0.81
46:JF:207:LEU:HB3	46:JF:225:LEU:HD22	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JK:55:GLU:HG3	45:JK:57:GLY:H	1.45	0.81
45:OM:288:VAL:HG11	45:OM:327:ASP:HB3	1.62	0.81
46:PF:135:ILE:HG13	46:PF:152:ILE:HD11	1.63	0.81
45:WI:31:GLN:HE22	45:WI:37:PRO:HD3	1.44	0.81
1:0A:152:LYS:NZ	34:7R:78:ILE:O	2.13	0.80
24:1P:340:ARG:HH21	45:TC:32:PRO:HD2	1.46	0.80
46:FJ:67:ASP:O	46:FJ:92:PHE:HA	1.81	0.80
45:KC:306:ASP:OD1	45:NC:282:TYR:OH	1.99	0.80
46:OL:213:ARG:O	46:OL:216:LYS:NZ	2.14	0.80
45:UI:288:VAL:HG21	45:UI:327:ASP:HB3	1.62	0.80
45:IK:288:VAL:HG21	45:IK:327:ASP:HB3	1.62	0.80
46:QL:347:ASN:ND2	45:QM:178:SER:OG	2.14	0.80
45:RG:258:ASN:HB3	45:RG:352:LYS:HD2	1.61	0.80
46:SH:6:HIS:CE1	46:SH:8:GLN:HE21	1.99	0.80
46:SL:67:ASP:O	46:SL:92:PHE:HA	1.80	0.80
46:TB:272:PRO:HD2	46:TB:361:LEU:HD21	1.63	0.80
46:AF:242:PHE:HB3	46:AF:356:ILE:HD13	1.62	0.80
46:ON:133:PHE:HB2	46:ON:164:MET:HG3	1.62	0.80
46:QJ:325:GLU:OE2	45:QK:221:ARG:NH1	2.14	0.80
46:TJ:242:PHE:HB3	46:TJ:356:ILE:HD13	1.63	0.80
46:UB:48:ASN:O	46:UB:62:ARG:NH1	2.14	0.80
46:UH:207:LEU:HB3	46:UH:225:LEU:HD22	1.63	0.80
8:1H:139:ARG:NH2	45:HI:370:LYS:O	2.14	0.80
40:6G:138:LYS:NZ	45:VG:296:PHE:O	2.13	0.80
45:BE:326:LYS:NZ	46:BH:220:PRO:HD2	1.96	0.80
46:BL:226:ASN:HD21	49:BL:501:GDP:HN1	1.27	0.80
46:BN:86:ARG:HE	46:BN:87:PRO:HD2	1.46	0.80
45:CC:88:HIS:HA	45:DC:280:LYS:HZ3	1.45	0.80
45:FK:108:TYR:HA	45:FK:112:LYS:HE3	1.63	0.80
46:GH:68:LEU:HB3	46:GH:96:GLY:HA2	1.62	0.80
45:OM:274:PRO:HG2	45:OM:371:VAL:HG21	1.63	0.80
36:5A:98:LEU:O	36:5A:108:ARG:NH1	2.14	0.80
40:6G:93:LYS:O	45:UK:96:LYS:NZ	2.15	0.80
46:CF:321:MET:HB2	45:CG:221:ARG:HH21	1.46	0.80
46:CL:67:ASP:O	46:CL:92:PHE:HA	1.82	0.80
45:EM:69:ASP:HB3	45:EM:75:ILE:HD11	1.62	0.80
46:HL:207:LEU:HB3	46:HL:225:LEU:HD22	1.61	0.80
46:JB:299:MET:HG3	46:JB:301:CYS:H	1.45	0.80
46:LB:213:ARG:HE	46:LB:297:LYS:HE2	1.46	0.80
45:QC:269:LEU:HD22	45:QC:384:ILE:HD11	1.64	0.80
45:SE:326:LYS:HD2	46:SF:220:PRO:HD2	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:1O:266:GLU:N	45:UA:282:TYR:CD1	2.50	0.80
46:JB:8:GLN:HE21	46:JB:14:ASN:HA	1.45	0.80
45:RE:268:MET:HG2	45:RE:380:ASN:HB2	1.62	0.80
46:RL:324:LYS:HG3	45:RM:210:TYR:CE1	2.15	0.80
46:UN:8:GLN:NE2	46:UN:13:GLY:O	2.15	0.80
46:UN:235:GLY:HA3	46:UN:366:THR:HG21	1.63	0.80
7:0G:14:ARG:NH1	46:IL:59:TYR:OH	2.14	0.80
46:AB:135:ILE:HG13	46:AB:152:ILE:HD11	1.64	0.80
46:EF:324:LYS:HE2	45:EG:222:PRO:HD2	1.64	0.80
45:JK:253:THR:O	45:JK:256:GLN:NE2	2.14	0.80
45:MK:402:ARG:HE	45:MK:405:VAL:HG21	1.44	0.80
46:RD:200:MET:HG3	46:RD:266:PHE:HB2	1.62	0.80
45:OE:178:SER:OG	46:OF:347:ASN:ND2	2.15	0.80
46:WD:281:TYR:HB3	46:WD:282:ARG:HH21	1.45	0.80
1:1A:129:PRO:HD3	46:AF:362:LYS:HD3	1.62	0.80
10:6Q:22:LEU:HB2	10:6Q:25:TRP:HB2	1.64	0.80
46:CJ:324:LYS:HE3	45:CK:222:PRO:HD2	1.63	0.80
45:DK:258:ASN:HD21	46:DL:178:THR:HG23	1.46	0.80
45:IG:256:GLN:HB2	46:IJ:397:TRP:HH2	1.47	0.80
46:JN:376:GLU:HB3	46:JN:380:ARG:HH12	1.45	0.80
45:PK:55:GLU:HG3	45:PK:57:GLY:H	1.46	0.80
30:2H:208:ASN:HD21	45:AC:26:LEU:HD21	1.44	0.80
37:5F:134:ILE:HA	37:5F:137:VAL:HG12	1.64	0.80
40:6G:105:LYS:HZ3	45:VI:176:GLN:HG2	1.45	0.80
46:AB:73:MET:HA	46:AB:76:VAL:HG12	1.61	0.80
46:DH:213:ARG:NH2	46:DH:297:LYS:O	2.14	0.80
45:HC:292:THR:HG21	45:HC:331:SER:HB3	1.62	0.80
45:II:123:ARG:NH1	45:II:127:ASP:OD1	2.14	0.80
46:NB:256:ASN:HB3	46:NB:350:LYS:HD3	1.62	0.80
46:ND:58:ARG:HH22	46:OD:280:GLN:HG3	1.47	0.80
45:PM:120:ASP:OD1	45:PM:123:ARG:NH2	2.14	0.80
45:UC:280:LYS:HZ3	45:UC:283:HIS:HB2	1.45	0.80
46:CH:325:GLU:OE1	45:CI:221:ARG:NH1	2.15	0.79
46:IH:218:THR:HG23	46:IH:219:THR:HG23	1.62	0.79
45:NM:288:VAL:HG11	45:NM:327:ASP:HB3	1.64	0.79
46:QJ:1:MET:HG2	46:QJ:2:ARG:H	1.46	0.79
46:RD:257:LEU:HD21	46:RD:314:SER:HB2	1.64	0.79
20:1K:194:LYS:HE2	46:GD:276:ARG:HB3	1.64	0.79
45:OA:292:THR:HG21	45:OA:331:SER:HB3	1.64	0.79
46:TD:207:LEU:HB3	46:TD:225:LEU:HD22	1.62	0.79
46:MJ:102:ALA:O	46:MJ:106:TYR:HB2	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:178:THR:HB	46:UD:181:GLU:HG3	1.61	0.79
46:UD:321:MET:HA	45:UE:221:ARG:HH22	1.46	0.79
46:VN:193:VAL:O	46:VN:262:ARG:NH2	2.15	0.79
45:WK:398:MET:HE1	46:WL:346:PRO:HD2	1.65	0.79
46:AD:67:ASP:O	46:AD:92:PHE:HA	1.83	0.79
45:OI:288:VAL:HG11	45:OI:327:ASP:HB3	1.65	0.79
23:IO:265:PHE:O	45:UA:282:TYR:CD2	2.34	0.79
37:5G:14:ARG:HG3	37:5G:15:THR:HG23	1.64	0.79
45:JG:72:PRO:HD2	46:JH:2:ARG:HH21	1.47	0.79
47:MM:501:GTP:O1G	46:MN:252:LYS:NZ	2.15	0.79
46:PB:319:GLY:HA2	46:PB:357:PRO:HG3	1.62	0.79
21:1L:494:GLU:HG3	34:4R:218:ILE:HD13	1.62	0.79
34:4R:581:THR:OG1	34:4R:584:GLU:OE1	2.01	0.79
46:BL:174:LYS:HE2	46:BL:205:GLU:HG2	1.62	0.79
45:CG:244:PHE:HB2	45:CG:356:ASN:HD21	1.44	0.79
45:JK:326:LYS:HE2	46:JN:220:PRO:HD2	1.65	0.79
45:LK:40:LYS:HG3	45:LK:41:THR:H	1.48	0.79
46:NJ:44:LEU:HA	46:NJ:47:ILE:HD11	1.63	0.79
45:OM:222:PRO:O	46:ON:324:LYS:NZ	2.16	0.79
45:SC:326:LYS:HD3	46:SD:212:PHE:HZ	1.48	0.79
46:SJ:242:PHE:HB3	46:SJ:356:ILE:HD13	1.63	0.79
2:0B:171:MET:O	46:JJ:320:ARG:NH1	2.16	0.79
4:2D:53:ILE:O	45:EK:221:ARG:NH2	2.16	0.79
37:5E:172:ASN:HB2	37:5E:176:ASP:HB3	1.65	0.79
46:CJ:322:SER:OG	45:CK:221:ARG:NH1	2.15	0.79
45:LI:115:VAL:HG11	45:LI:152:LEU:HD22	1.63	0.79
45:LM:292:THR:HG21	45:LM:331:SER:HB3	1.64	0.79
46:ON:55:THR:HG23	46:PN:283:ALA:HA	1.64	0.79
45:SC:229:ARG:HH12	45:SC:366:GLY:HA2	1.47	0.79
37:5G:209:ARG:NH1	45:LK:431:ASP:OD2	2.16	0.79
46:BL:32:PRO:O	46:BL:83:GLN:NE2	2.15	0.79
46:BN:67:ASP:O	46:BN:92:PHE:HA	1.83	0.79
46:BN:248:SER:HA	46:BN:252:LYS:HD3	1.65	0.79
45:HC:288:VAL:HG11	45:HC:327:ASP:HB3	1.64	0.79
45:OE:294:SER:O	45:OE:300:ASN:ND2	2.16	0.79
45:QI:352:LYS:HZ3	46:QJ:179:VAL:H	1.29	0.79
15:0X:42:LYS:NZ	45:LA:56:THR:O	2.16	0.79
46:AH:283:ALA:HB2	46:MH:54:ALA:HA	1.64	0.79
46:HN:73:MET:HA	46:HN:76:VAL:HG12	1.65	0.79
46:JL:207:LEU:HB3	46:JL:225:LEU:HD22	1.63	0.79
45:NA:55:GLU:HG3	45:NA:57:GLY:H	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NE:55:GLU:HG3	45:NE:57:GLY:H	1.46	0.79
45:OA:100:ALA:O	46:OB:251:ARG:NH1	2.16	0.79
45:PK:326:LYS:NZ	46:PN:220:PRO:O	2.11	0.79
45:SC:91:GLN:HE22	45:SC:125:LEU:HD21	1.46	0.79
45:UK:55:GLU:HG3	45:UK:57:GLY:H	1.48	0.79
45:WA:222:PRO:HD2	46:WB:324:LYS:HE2	1.63	0.79
7:1G:112:LYS:NZ	45:JA:364:PRO:O	2.14	0.79
4:2D:81:ARG:NH2	46:EJ:357:PRO:O	2.16	0.79
45:IA:69:ASP:HB3	45:IA:75:ILE:HD11	1.65	0.79
45:OA:253:THR:HA	45:OA:256:GLN:HE22	1.48	0.79
45:PC:69:ASP:O	45:PC:94:SER:HA	1.83	0.79
46:RH:68:LEU:HB3	46:RH:96:GLY:HA2	1.64	0.79
45:SG:280:LYS:HA	45:SG:283:HIS:HD2	1.47	0.79
4:2D:224:ARG:NH1	34:5R:493:GLY:HA3	1.98	0.78
46:BD:248:SER:HA	46:BD:252:LYS:HD2	1.62	0.78
46:HL:350:LYS:NZ	46:HL:352:SER:OG	2.17	0.78
46:IH:6:HIS:HD2	46:IH:134:GLN:HE22	1.31	0.78
45:LA:292:THR:HG21	45:LA:331:SER:HB3	1.64	0.78
46:ML:135:ILE:HG13	46:ML:152:ILE:HD11	1.65	0.78
45:NG:88:HIS:NE2	45:OG:284:GLU:OE2	2.17	0.78
46:OH:222:TYR:O	46:OH:226:ASN:ND2	2.16	0.78
46:ON:6:HIS:HD2	46:ON:134:GLN:HE21	1.29	0.78
45:SC:75:ILE:HD11	45:SC:92:LEU:HB3	1.65	0.78
45:WC:133:GLN:NE2	45:WC:251:ASP:OD1	2.16	0.78
45:WK:288:VAL:HG21	45:WK:327:ASP:HB3	1.63	0.78
15:1X:81:ARG:HH21	46:MF:276:ARG:HB2	1.49	0.78
12:3T:224:LYS:N	45:MK:196:GLU:OE1	2.17	0.78
34:4R:90:ARG:NH2	45:AE:26:LEU:O	2.16	0.78
37:5F:199:LYS:NZ	45:LG:392:ASP:OD1	2.16	0.78
45:EM:15:GLN:NE2	47:EM:501:GTP:O6	2.17	0.78
46:HH:207:LEU:HB3	46:HH:225:LEU:HD22	1.65	0.78
35:4S:118:PHE:O	35:4S:122:GLN:NE2	2.16	0.78
46:CF:86:ARG:CZ	46:DF:281:TYR:CE1	2.66	0.78
46:FB:27:GLU:OE2	46:FB:241:ARG:NH2	2.17	0.78
45:OI:90:GLU:OE2	45:OI:121:ARG:NH1	2.16	0.78
45:PI:298:PRO:HA	45:PI:301:MET:HE3	1.65	0.78
45:RC:119:LEU:HD13	45:RC:122:ILE:HD11	1.64	0.78
46:UL:48:ASN:O	46:UL:62:ARG:NH1	2.16	0.78
45:WI:31:GLN:NE2	45:WI:35:GLN:O	2.16	0.78
46:AB:242:PHE:HB3	46:AB:356:ILE:HD13	1.64	0.78
45:BK:101:ASN:OD1	46:BL:252:LYS:NZ	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:222:PRO:HG2	46:PF:324:LYS:HE2	1.63	0.78
46:PN:285:THR:N	46:PN:288:GLU:OE2	2.14	0.78
46:TH:282:ARG:HE	46:TH:283:ALA:H	1.32	0.78
45:VC:352:LYS:HZ3	46:VF:179:VAL:H	1.30	0.78
20:2K:379:ARG:HD2	45:GG:282:TYR:HD2	1.48	0.78
45:LG:349:THR:HG1	46:LJ:176:SER:HG	1.28	0.78
45:RC:55:GLU:HG3	45:RC:57:GLY:H	1.47	0.78
46:RF:54:ALA:HA	46:SF:283:ALA:HB2	1.65	0.78
46:UH:186:THR:HA	46:UH:189:VAL:HG12	1.66	0.78
10:3Q:85:LYS:NZ	35:5S:245:GLU:OE1	2.16	0.78
37:5F:44:ARG:NH2	45:NC:55:GLU:O	2.17	0.78
45:BI:288:VAL:HG11	45:BI:327:ASP:HB3	1.64	0.78
46:LF:135:ILE:HG13	46:LF:152:ILE:HD11	1.64	0.78
45:PE:55:GLU:HG3	45:PE:57:GLY:H	1.49	0.78
46:VF:73:MET:HA	46:VF:76:VAL:HG12	1.64	0.78
46:VL:86:ARG:HH11	46:VL:87:PRO:HD2	1.49	0.78
45:WC:41:THR:HG22	45:WC:42:ILE:H	1.47	0.78
26:1W:243:ILE:HG22	46:LB:276:ARG:HH21	1.47	0.78
46:BF:68:LEU:HB3	46:BF:96:GLY:HA2	1.65	0.78
46:CD:325:GLU:OE1	45:CE:221:ARG:NH1	2.15	0.78
45:DK:215:ARG:HH12	45:DK:299:ALA:HB1	1.47	0.78
46:JN:275:SER:O	46:JN:279:GLN:NE2	2.17	0.78
46:LF:371:SER:O	46:LF:422:TYR:OH	2.02	0.78
46:LH:200:MET:HG2	46:LH:266:PHE:HB2	1.65	0.78
45:MK:282:TYR:OH	45:MK:370:LYS:O	2.01	0.78
46:QD:347:ASN:ND2	45:QE:178:SER:OG	2.17	0.78
46:SF:62:ARG:HH22	46:SF:127:CYS:HB2	1.48	0.78
46:VJ:73:MET:HA	46:VJ:76:VAL:HG12	1.64	0.78
46:HF:356:ILE:HD12	46:HF:357:PRO:HD2	1.66	0.78
45:KI:326:LYS:NZ	46:KL:220:PRO:O	2.16	0.78
45:LM:157:LEU:HD22	45:LM:166:LYS:HD3	1.66	0.78
46:RH:272:PRO:HD3	46:RH:289:LEU:HD21	1.65	0.78
46:TD:324:LYS:NZ	45:TE:222:PRO:O	2.16	0.78
46:VB:242:PHE:HB3	46:VB:356:ILE:HD13	1.65	0.78
45:VG:221:ARG:NH2	46:VH:322:SER:O	2.16	0.78
46:BF:226:ASN:HD21	49:BF:501:GDP:HN1	1.31	0.78
46:DD:292:GLN:HG2	46:DD:298:ASN:HD21	1.46	0.78
45:NC:99:ALA:HA	45:NC:105:ARG:HD2	1.65	0.78
46:QB:237:THR:HG23	46:QB:241:ARG:HH21	1.48	0.78
46:QL:114:ASP:OD1	46:QL:115:SER:N	2.16	0.78
46:VH:273:LEU:H	46:VH:292:GLN:HE22	1.30	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AC:222:PRO:HD2	46:AD:324:LYS:HG3	1.64	0.78
45:BE:329:ASN:HD21	46:BH:175:VAL:HA	1.49	0.78
46:CB:14:ASN:HD22	46:CB:72:THR:HG22	1.49	0.78
46:ID:130:LEU:HB3	46:ID:162:ARG:HH12	1.46	0.78
45:LM:115:VAL:HG11	45:LM:152:LEU:HD22	1.64	0.78
46:MF:274:THR:OG1	46:MF:279:GLN:OE1	2.02	0.78
45:PG:326:LYS:HZ1	46:PJ:219:THR:HA	1.48	0.78
46:TD:385:PHE:HZ	46:TD:408:PHE:HD2	1.29	0.78
45:TM:271:SER:OG	45:TM:301:MET:SD	2.42	0.78
46:VL:54:ALA:HA	46:WL:283:ALA:HB2	1.66	0.78
8:1H:115:ARG:NH2	46:HL:280:GLN:H	1.81	0.77
31:3I:216:ARG:HH22	46:FL:128:ASP:HA	1.43	0.77
46:CL:325:GLU:HA	46:CL:328:GLU:HG2	1.65	0.77
46:FD:242:PHE:HB3	46:FD:356:ILE:HD13	1.66	0.77
45:PC:260:VAL:HB	46:PF:397:TRP:HH2	1.49	0.77
45:UC:288:VAL:HG21	45:UC:327:ASP:HB3	1.65	0.77
45:UG:89:PRO:HD2	45:VE:280:LYS:HE2	1.65	0.77
46:DN:273:LEU:H	46:DN:292:GLN:HE22	1.29	0.77
46:FH:67:ASP:O	46:FH:92:PHE:HA	1.83	0.77
45:HM:121:ARG:HA	45:HM:124:LYS:HE3	1.66	0.77
46:QN:200:MET:HE2	46:QN:268:ILE:HD13	1.65	0.77
46:SL:375:GLN:HE21	46:SL:422:TYR:HD2	1.31	0.77
45:TC:2:ARG:HD2	45:TC:133:GLN:HE22	1.49	0.77
46:VD:6:HIS:O	46:VD:63:ALA:HA	1.84	0.77
4:0D:187:PHE:HA	45:FA:221:ARG:HG3	1.66	0.77
24:1P:200:LEU:HD11	46:TH:276:ARG:HG2	1.64	0.77
36:5A:138:ARG:HH12	46:ND:357:PRO:HD2	1.49	0.77
44:8R:87:UNK:C	44:8R:89:UNK:N	2.44	0.77
46:AL:54:ALA:HA	46:BL:283:ALA:HB2	1.65	0.77
46:HB:49:VAL:O	46:HB:62:ARG:NH2	2.16	0.77
46:MJ:218:THR:HG23	46:MJ:219:THR:HG23	1.65	0.77
46:PB:273:LEU:H	46:PB:292:GLN:HE22	1.32	0.77
46:PL:273:LEU:H	46:PL:292:GLN:HE22	1.32	0.77
46:SL:6:HIS:O	46:SL:63:ALA:HA	1.83	0.77
46:TB:237:THR:HA	46:TB:240:LEU:HD13	1.67	0.77
46:VN:273:LEU:H	46:VN:292:GLN:HE22	1.29	0.77
45:WI:221:ARG:HA	46:WJ:324:LYS:HZ1	1.47	0.77
46:BD:73:MET:HA	46:BD:76:VAL:HG12	1.64	0.77
45:GI:90:GLU:OE1	45:GI:121:ARG:NH2	2.16	0.77
46:IL:6:HIS:O	46:IL:63:ALA:HA	1.85	0.77
45:OE:292:THR:HG21	45:OE:331:SER:HB3	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TH:247:ASN:OD1	45:TI:11:GLN:NE2	2.16	0.77
45:UC:292:THR:HG21	45:UC:331:SER:HB3	1.65	0.77
46:UL:68:LEU:HB3	46:UL:96:GLY:HA2	1.66	0.77
46:GJ:281:TYR:HB3	46:GJ:282:ARG:HH21	1.50	0.77
46:HJ:371:SER:O	46:HJ:422:TYR:OH	2.01	0.77
45:KI:178:SER:OG	46:KJ:347:ASN:ND2	2.17	0.77
46:PJ:273:LEU:H	46:PJ:292:GLN:HE22	1.32	0.77
46:QL:86:ARG:HH21	46:QL:87:PRO:HG2	1.48	0.77
45:SC:48:ALA:HB1	45:SC:243:ARG:HB2	1.65	0.77
46:VL:58:ARG:NH1	46:VL:59:TYR:O	2.18	0.77
46:WF:164:MET:HG3	46:WF:197:ASP:HB2	1.66	0.77
11:1S:20:ASN:ND2	46:WF:74:ASP:OD1	2.17	0.77
45:BE:88:HIS:NE2	45:CE:284:GLU:OE2	2.16	0.77
46:BH:86:ARG:HE	46:BH:87:PRO:HD2	1.48	0.77
46:FB:313:ALA:HB3	46:FB:349:ILE:HG22	1.66	0.77
46:GJ:242:PHE:HB3	46:GJ:356:ILE:HD13	1.67	0.77
46:GN:67:ASP:O	46:GN:92:PHE:HA	1.84	0.77
45:LI:71:GLU:OE2	46:LJ:2:ARG:NH2	2.17	0.77
45:NK:279:GLU:HG2	45:NK:280:LYS:H	1.49	0.77
45:PG:178:SER:OG	46:PH:347:ASN:ND2	2.17	0.77
46:PL:248:SER:HA	46:PL:252:LYS:HD3	1.66	0.77
46:UL:207:LEU:HB3	46:UL:225:LEU:HD22	1.66	0.77
46:VF:164:MET:HE3	46:VF:196:ALA:HA	1.67	0.77
45:WG:222:PRO:HD2	46:WH:324:LYS:HD2	1.65	0.77
45:EE:91:GLN:HE22	45:EE:125:LEU:HD21	1.49	0.77
46:FD:128:ASP:OD1	46:FD:129:CYS:N	2.18	0.77
45:LM:36:MET:HG3	45:LM:38:SER:H	1.48	0.77
46:PH:248:SER:HA	46:PH:252:LYS:HD2	1.67	0.77
45:QG:140:SER:OG	47:QG:501:GTP:O2B	2.03	0.77
46:QJ:257:LEU:HD11	46:QJ:314:SER:HB2	1.66	0.77
45:RG:33:ASP:HA	45:RG:85:GLN:HE21	1.49	0.77
46:TF:178:THR:HB	46:TF:181:GLU:HG3	1.67	0.77
39:6F:78:VAL:O	39:6F:82:GLN:HB2	1.84	0.77
45:BK:123:ARG:NH1	45:BK:127:ASP:OD2	2.18	0.77
45:HG:221:ARG:NH1	46:HH:325:GLU:OE1	2.18	0.77
46:KJ:70:PRO:O	46:KJ:74:ASP:HB2	1.84	0.77
45:OC:288:VAL:HG21	45:OC:327:ASP:HB3	1.66	0.77
45:OC:292:THR:HG21	45:OC:331:SER:HB3	1.67	0.77
45:PE:288:VAL:HG11	45:PE:327:ASP:HB3	1.66	0.77
46:PL:164:MET:HB3	46:PL:197:ASP:H	1.49	0.77
45:QK:140:SER:OG	47:QK:501:GTP:O2B	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:211:ASP:OD2	45:RK:215:ARG:NH1	2.16	0.77
46:SH:242:PHE:HB3	46:SH:356:ILE:HD13	1.67	0.77
46:SJ:54:ALA:HA	46:TJ:283:ALA:HB2	1.66	0.77
46:SL:207:LEU:HB3	46:SL:225:LEU:HD22	1.65	0.77
21:1L:525:LEU:HD13	46:BF:320:ARG:HB2	1.67	0.77
45:AG:288:VAL:HG11	45:AG:327:ASP:HB3	1.65	0.77
46:AJ:295:ASP:OD2	46:AJ:297:LYS:NZ	2.18	0.77
46:CB:346:PRO:HD2	45:CC:398:MET:HE3	1.67	0.77
45:CK:224:TYR:HA	45:CK:227:LEU:HD12	1.65	0.77
45:HK:271:SER:OG	45:HK:301:MET:SD	2.43	0.77
46:ID:7:ILE:HG23	46:ID:135:ILE:HG12	1.67	0.77
46:IH:73:MET:HA	46:IH:76:VAL:HG12	1.67	0.77
46:MN:135:ILE:HG13	46:MN:152:ILE:HD11	1.66	0.77
45:NA:394:LYS:HE3	46:NB:346:PRO:HG2	1.65	0.77
45:OG:242:LEU:HD11	45:OG:252:ILE:HD11	1.66	0.77
45:SG:217:LEU:HD11	45:SG:367:ASP:HB2	1.65	0.77
45:VK:209:ILE:HD11	45:VK:230:LEU:HD23	1.66	0.77
45:GI:285:GLN:HE22	45:GI:287:SER:HB2	1.50	0.77
46:IB:6:HIS:NE2	46:IB:8:GLN:OE1	2.18	0.77
45:JC:55:GLU:HG3	45:JC:57:GLY:H	1.49	0.77
45:LK:406:HIS:HA	45:LK:409:VAL:HG12	1.67	0.77
45:NK:180:ALA:HA	46:NL:350:LYS:NZ	2.00	0.77
46:NL:167:PHE:HE2	46:NL:233:MET:HG3	1.50	0.77
46:OD:178:THR:HG22	46:OD:180:VAL:H	1.48	0.77
45:PC:324:VAL:HG11	45:PC:326:LYS:HE2	1.67	0.77
46:SB:21:TRP:HA	46:SB:24:ILE:HG12	1.64	0.77
46:TB:48:ASN:O	46:TB:62:ARG:NH1	2.16	0.77
46:UJ:372:THR:HA	46:UJ:422:TYR:HE2	1.50	0.77
45:WG:40:LYS:HD2	45:WG:41:THR:HG23	1.66	0.77
11:0S:278:ARG:NH2	46:WB:115:SER:O	2.18	0.76
21:1L:481:LYS:NZ	46:CF:280:GLN:OE1	2.17	0.76
34:7R:112:ARG:HH12	46:BD:276:ARG:HD3	1.49	0.76
45:OA:100:ALA:HB1	46:OB:252:LYS:HG3	1.67	0.76
46:PD:224:ASP:HA	46:PD:227:HIS:HD2	1.48	0.76
45:TE:326:LYS:HE3	46:TF:220:PRO:HG2	1.65	0.76
8:1H:90:ARG:NH2	45:HK:278:ALA:O	2.17	0.76
19:1J:140:PHE:CE2	45:IE:369:ALA:HB1	2.19	0.76
10:1Q:38:THR:HG22	35:4S:208:GLN:HE22	1.48	0.76
37:5F:13:ASN:ND2	37:5F:22:LYS:O	2.18	0.76
41:6H:342:VAL:HG12	41:6H:344:ASN:H	1.51	0.76
46:DD:371:SER:O	46:DD:422:TYR:OH	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DL:200:MET:HG3	46:DL:266:PHE:HB2	1.67	0.76
45:EC:15:GLN:O	45:EC:228:ASN:ND2	2.17	0.76
46:GN:290:THR:HA	46:GN:293:MET:SD	2.26	0.76
45:IC:292:THR:HG21	45:IC:331:SER:HB3	1.66	0.76
45:LI:221:ARG:HA	46:LJ:324:LYS:HZ1	1.48	0.76
46:ND:156:ARG:NH1	46:ND:194:GLU:O	2.19	0.76
45:SE:91:GLN:HG2	45:SE:121:ARG:HE	1.50	0.76
45:SM:254:GLU:HG2	46:SN:98:GLY:HA2	1.68	0.76
46:TD:256:ASN:HD22	46:TD:350:LYS:HD3	1.49	0.76
46:TL:318:ARG:HB2	46:TL:364:ALA:HB3	1.65	0.76
45:VC:55:GLU:HG3	45:VC:57:GLY:H	1.48	0.76
8:1H:90:ARG:HH12	45:HK:279:GLU:HA	1.50	0.76
25:1R:312:GLN:NE2	46:CD:359:LYS:O	2.18	0.76
1:3A:152:LYS:NZ	34:6R:78:ILE:O	2.18	0.76
36:5B:102:TYR:OH	45:KE:390:ARG:NH2	2.19	0.76
45:AI:284:GLU:OE2	45:MI:88:HIS:NE2	2.17	0.76
46:BF:67:ASP:O	46:BF:92:PHE:HA	1.85	0.76
46:BN:86:ARG:NE	46:BN:87:PRO:HD2	2.00	0.76
45:HG:69:ASP:OD1	45:HG:70:LEU:N	2.18	0.76
46:JN:376:GLU:HA	46:JN:379:LYS:HE2	1.67	0.76
45:MC:258:ASN:HD22	45:MC:352:LYS:HD2	1.49	0.76
45:NI:271:SER:OG	45:NI:301:MET:SD	2.43	0.76
46:QH:200:MET:HG2	46:QH:266:PHE:HB2	1.66	0.76
45:UC:215:ARG:NH2	45:UC:300:ASN:OD1	2.19	0.76
46:WN:8:GLN:HE21	46:WN:65:LEU:HG	1.50	0.76
46:EB:31:ASP:OD2	46:EB:37:HIS:ND1	2.18	0.76
45:HC:326:LYS:HG2	46:HF:212:PHE:HE2	1.50	0.76
46:IB:287:PRO:O	46:IB:291:GLN:NE2	2.19	0.76
46:KL:260:PHE:HB2	46:KL:263:LEU:HD13	1.66	0.76
46:OL:215:LEU:HB3	46:OL:217:LEU:HD23	1.65	0.76
46:QH:67:ASP:O	46:QH:92:PHE:HA	1.85	0.76
46:QH:73:MET:HA	46:QH:76:VAL:HG12	1.68	0.76
46:SF:251:ARG:HD3	45:SG:105:ARG:HH12	1.51	0.76
46:UF:273:LEU:H	46:UF:292:GLN:HE22	1.32	0.76
46:VN:129:CYS:SG	46:VN:131:GLN:NE2	2.58	0.76
13:2U:226:ILE:HG23	45:WG:43:GLY:HA2	1.65	0.76
45:CC:9:VAL:HG12	45:CC:68:LEU:HB2	1.66	0.76
46:CF:86:ARG:CD	46:DF:281:TYR:CD1	2.67	0.76
46:RJ:257:LEU:HD21	46:RJ:314:SER:HB2	1.65	0.76
46:VN:248:SER:HA	46:VN:252:LYS:HD3	1.68	0.76
19:1J:171:TYR:OH	46:HH:54:ALA:O	2.03	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1L:151:ARG:NH2	46:CH:357:PRO:O	2.18	0.76
45:AE:297:GLU:OE2	45:AE:300:ASN:ND2	2.18	0.76
45:BM:288:VAL:HG11	45:BM:327:ASP:HB3	1.68	0.76
46:DF:83:GLN:O	46:EF:281:TYR:OH	2.03	0.76
46:FD:371:SER:O	46:FD:422:TYR:OH	2.02	0.76
45:JK:326:LYS:NZ	46:JN:218:THR:O	2.18	0.76
46:ML:107:THR:OG1	46:ML:108:GLU:OE1	2.03	0.76
45:PC:55:GLU:HG3	45:PC:57:GLY:H	1.49	0.76
45:QA:215:ARG:NH2	45:QA:299:ALA:O	2.19	0.76
45:QA:217:LEU:HD11	45:QA:367:ASP:HB3	1.67	0.76
46:QL:237:THR:HG23	46:QL:241:ARG:HH21	1.51	0.76
46:TL:46:ARG:HH22	45:TM:73:THR:HA	1.50	0.76
46:UD:324:LYS:HD2	45:UE:222:PRO:HG2	1.68	0.76
45:UE:215:ARG:NH2	45:UE:300:ASN:OD1	2.18	0.76
46:WD:11:GLN:NE2	49:WD:501:GDP:O1A	2.19	0.76
3:1C:37:ILE:HD11	45:DM:89:PRO:HG3	1.68	0.76
46:GF:215:LEU:HB3	46:GF:217:LEU:HD23	1.68	0.76
45:GK:288:VAL:HG21	45:GK:327:ASP:HB3	1.64	0.76
46:UJ:178:THR:HB	46:UJ:181:GLU:HG3	1.68	0.76
46:UN:135:ILE:HG13	46:UN:152:ILE:HD11	1.68	0.76
45:AC:326:LYS:HD3	46:AF:220:PRO:HD2	1.66	0.76
46:AN:139:LEU:HD11	46:AN:168:SER:HB3	1.67	0.76
45:DE:188:ILE:HD12	45:DE:425:LEU:HD11	1.67	0.76
45:EK:37:PRO:HG2	45:EK:40:LYS:HD3	1.67	0.76
45:FA:301:MET:HG3	45:FA:303:ALA:H	1.50	0.76
45:KI:177:VAL:HG22	46:KJ:331:LEU:HD11	1.66	0.76
45:QE:9:VAL:HG12	45:QE:68:LEU:HB2	1.68	0.76
37:5H:29:LYS:NZ	45:OK:217:LEU:O	2.18	0.76
46:DH:11:GLN:NE2	49:DH:501:GDP:O1A	2.19	0.76
46:FJ:371:SER:O	46:FJ:422:TYR:OH	2.04	0.76
45:FM:91:GLN:HG2	45:FM:121:ARG:HD2	1.67	0.76
45:HC:221:ARG:NH1	46:HD:322:SER:OG	2.19	0.76
45:HK:69:ASP:OD1	45:HK:70:LEU:N	2.18	0.76
46:LL:73:MET:HA	46:LL:76:VAL:HG12	1.65	0.76
46:MH:11:GLN:NE2	49:MH:501:GDP:O1A	2.19	0.76
46:MJ:103:LYS:HA	46:MJ:107:THR:HG22	1.68	0.76
45:NG:99:ALA:HA	45:NG:105:ARG:HD2	1.65	0.76
45:PC:319:TYR:HB3	45:PC:323:VAL:HG11	1.68	0.76
46:QL:166:THR:OG1	46:QL:199:CYS:SG	2.43	0.76
46:FF:285:THR:N	46:FF:288:GLU:OE2	2.19	0.76
46:JJ:67:ASP:O	46:JJ:92:PHE:HA	1.86	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LD:73:MET:HA	46:LD:76:VAL:HG12	1.66	0.76
46:MN:371:SER:O	46:MN:422:TYR:OH	2.02	0.76
45:OC:167:LEU:HD13	45:OC:200:VAL:HG21	1.68	0.76
46:VJ:209:ASP:OD2	46:VJ:213:ARG:NH1	2.20	0.76
46:WD:156:ARG:HH21	46:WD:164:MET:HB2	1.51	0.76
46:WF:350:LYS:NZ	46:WF:352:SER:OG	2.19	0.76
45:DC:258:ASN:HD22	45:DC:352:LYS:HE3	1.51	0.76
4:1D:40:GLY:O	45:DG:79:ARG:NH1	2.14	0.75
37:5G:83:LEU:HD21	45:KI:405:VAL:HB	1.67	0.75
39:6F:130:SER:H	46:IH:359:LYS:HZ1	1.32	0.75
34:6R:457:GLU:HB2	34:6R:470:PHE:HB2	1.68	0.75
45:BA:326:LYS:HD3	46:BD:220:PRO:HD2	1.68	0.75
46:BF:97:ALA:HB3	46:BF:143:THR:HG22	1.69	0.75
46:CH:73:MET:HA	46:CH:76:VAL:HG12	1.68	0.75
46:DF:7:ILE:HG22	46:DF:64:ILE:HG12	1.66	0.75
45:GA:161:TYR:HB3	45:GA:164:LYS:HD2	1.68	0.75
45:GK:254:GLU:HG2	46:GN:98:GLY:HA2	1.67	0.75
45:NI:11:GLN:NE2	46:NJ:245:GLN:O	2.19	0.75
46:QB:235:GLY:HA3	46:QB:366:THR:HG21	1.67	0.75
46:QN:273:LEU:H	46:QN:292:GLN:HE22	1.34	0.75
46:TD:282:ARG:HE	46:TD:283:ALA:H	1.34	0.75
46:UF:226:ASN:HD21	49:UF:501:GDP:HN1	1.33	0.75
8:1H:271:ARG:HH21	46:HF:362:LYS:HB2	1.49	0.75
30:4H:191:LEU:HD23	46:AL:360:GLY:HA2	1.68	0.75
46:DH:68:LEU:HD12	46:DH:93:GLY:HA3	1.68	0.75
46:EH:273:LEU:H	46:EH:292:GLN:HE22	1.34	0.75
45:EM:101:ASN:HA	45:EM:144:GLY:H	1.50	0.75
45:HE:352:LYS:HZ1	46:HH:179:VAL:H	1.32	0.75
45:JC:116:ASP:OD1	45:JC:117:LEU:N	2.20	0.75
45:MG:91:GLN:HG2	45:MG:121:ARG:HD2	1.68	0.75
45:PK:64:ARG:HG3	45:PK:125:LEU:HD11	1.67	0.75
46:QF:273:LEU:H	46:QF:292:GLN:HE22	1.33	0.75
46:SB:334:GLN:HA	46:SB:341:PHE:HE2	1.50	0.75
46:UD:130:LEU:HG	46:UD:162:ARG:HD2	1.69	0.75
46:UH:67:ASP:O	46:UH:92:PHE:HA	1.86	0.75
1:2A:3:GLN:NE2	34:5R:6:PRO:O	2.19	0.75
36:5A:167:LYS:NZ	45:NC:278:ALA:O	2.19	0.75
37:5E:123:ARG:HH22	45:OA:372:MET:HA	1.51	0.75
45:AE:328:VAL:HG11	45:AE:353:VAL:HG21	1.68	0.75
46:DF:11:GLN:NE2	49:DF:501:GDP:O2A	2.19	0.75
45:FA:192:HIS:NE2	45:FA:424:ASP:OD2	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HB:3:GLU:OE1	46:HB:62:ARG:NH1	2.19	0.75
46:HH:2:ARG:HD2	46:HH:240:LEU:HD11	1.68	0.75
45:KE:178:SER:OG	46:KF:347:ASN:ND2	2.19	0.75
45:NM:50:ASN:O	45:NM:64:ARG:NH2	2.18	0.75
45:OG:2:ARG:HH21	45:OG:242:LEU:HD23	1.50	0.75
45:SI:2:ARG:HH21	45:SI:243:ARG:HA	1.49	0.75
46:SN:273:LEU:H	46:SN:292:GLN:HE22	1.33	0.75
45:BE:221:ARG:HH22	46:BF:321:MET:HA	1.51	0.75
46:BF:135:ILE:HG13	46:BF:152:ILE:HD11	1.67	0.75
46:GD:139:LEU:HD12	46:GD:170:VAL:HG12	1.67	0.75
45:TE:224:TYR:O	45:TE:228:ASN:ND2	2.19	0.75
45:TK:260:VAL:HB	46:TL:397:TRP:HZ2	1.51	0.75
46:UJ:32:PRO:O	46:UJ:83:GLN:NE2	2.20	0.75
45:WM:55:GLU:HG3	45:WM:57:GLY:H	1.51	0.75
45:DC:167:LEU:HD22	45:DC:200:VAL:HB	1.69	0.75
34:5R:71:LYS:HD2	34:5R:72:ALA:N	2.02	0.75
35:5S:194:LYS:HA	35:5S:218:ILE:HD11	1.69	0.75
46:CF:386:THR:OG1	46:CF:390:ARG:NH1	2.19	0.75
46:DJ:222:TYR:HA	46:DJ:225:LEU:HD12	1.69	0.75
45:EE:288:VAL:HG11	45:EE:327:ASP:HB3	1.68	0.75
46:EF:8:GLN:NE2	46:EF:10:GLY:O	2.19	0.75
46:GD:226:ASN:HD21	49:GD:501:GDP:HN1	1.33	0.75
46:GH:290:THR:HA	46:GH:293:MET:SD	2.27	0.75
46:HF:226:ASN:HD21	49:HF:501:GDP:HN1	1.34	0.75
45:IA:261:PRO:HD2	45:IA:262:TYR:N	2.01	0.75
45:JI:288:VAL:HG21	45:JI:327:ASP:HB3	1.66	0.75
46:NJ:238:CYS:SG	46:NJ:318:ARG:NH1	2.58	0.75
45:PA:254:GLU:HG2	46:PD:98:GLY:HA2	1.69	0.75
46:QD:45:GLU:HG2	46:QD:46:ARG:HG2	1.67	0.75
45:QI:119:LEU:HG	45:QI:156:ARG:HE	1.49	0.75
46:RJ:318:ARG:HB2	46:RJ:364:ALA:HB3	1.68	0.75
46:RL:260:PHE:HB2	46:RL:263:LEU:HD13	1.66	0.75
46:VD:322:SER:OG	46:VD:325:GLU:OE1	2.04	0.75
46:WD:318:ARG:HB3	46:WD:364:ALA:HB3	1.68	0.75
45:BC:214:ARG:NH1	45:BC:220:GLU:OE1	2.18	0.75
45:FK:222:PRO:HD2	46:FL:324:LYS:HD2	1.66	0.75
45:FK:238:LEU:HA	45:FK:318:MET:HE1	1.69	0.75
45:GA:389:SER:O	45:GA:393:HIS:ND1	2.14	0.75
45:IC:392:ASP:OD2	45:IC:422:ARG:NH1	2.20	0.75
46:IF:73:MET:HA	46:IF:76:VAL:HG12	1.69	0.75
46:IJ:282:ARG:NH2	46:IJ:292:GLN:OE1	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LN:67:ASP:O	46:LN:92:PHE:HA	1.86	0.75
46:RN:86:ARG:HH11	46:SN:281:TYR:HB2	1.51	0.75
46:TL:67:ASP:O	46:TL:92:PHE:HA	1.86	0.75
24:1P:168:ARG:NH2	45:TI:370:LYS:O	2.19	0.75
35:4S:194:LYS:HA	35:4S:218:ILE:HD11	1.69	0.75
40:6G:268:VAL:HG12	40:6G:270:THR:H	1.49	0.75
46:EH:215:LEU:HD22	46:EH:217:LEU:HB2	1.68	0.75
46:FF:173:PRO:HG2	46:FF:380:ARG:HD2	1.69	0.75
46:HH:403:MET:HB3	46:HH:407:GLU:OE2	1.86	0.75
46:IH:287:PRO:HA	46:IH:329:GLN:HE22	1.49	0.75
46:NF:306:ARG:HA	46:NF:340:TYR:HE2	1.52	0.75
46:PL:83:GLN:O	46:QJ:281:TYR:OH	2.03	0.75
46:TL:242:PHE:HB3	46:TL:356:ILE:HD13	1.69	0.75
45:UM:71:GLU:HB2	45:UM:98:ASP:HB2	1.67	0.75
34:7R:185:SER:HA	34:7R:188:LYS:HD2	1.69	0.75
46:AH:67:ASP:O	46:AH:92:PHE:HA	1.86	0.75
46:BB:319:GLY:HA2	46:BB:357:PRO:HG3	1.68	0.75
46:FD:229:VAL:HG12	46:FD:233:MET:HE2	1.69	0.75
45:GI:55:GLU:O	45:HI:285:GLN:NE2	2.20	0.75
46:GL:268:ILE:HG22	46:GL:368:VAL:HG12	1.69	0.75
45:HG:257:THR:HA	46:HJ:397:TRP:CH2	2.22	0.75
45:LC:40:LYS:HD3	45:LC:41:THR:H	1.52	0.75
46:PJ:299:MET:HG3	46:PJ:305:PRO:HG3	1.69	0.75
46:PN:68:LEU:HB3	46:PN:96:GLY:HA2	1.68	0.75
46:QH:217:LEU:HD23	46:QH:219:THR:H	1.51	0.75
45:QK:55:GLU:HG3	45:QK:57:GLY:H	1.51	0.75
46:RD:163:ILE:HD11	46:RD:251:ARG:HH11	1.52	0.75
45:SK:33:ASP:HA	45:SK:85:GLN:HE21	1.51	0.75
45:TK:280:LYS:HA	45:TK:283:HIS:HD2	1.50	0.75
46:TL:289:LEU:HD11	46:TL:363:MET:HB3	1.69	0.75
45:WA:180:ALA:HA	46:WB:350:LYS:HZ3	1.52	0.75
46:WF:248:SER:HA	46:WF:252:LYS:HD3	1.68	0.75
7:0G:31:MET:SD	46:JL:279:GLN:NE2	2.59	0.75
46:GJ:67:ASP:O	46:GJ:92:PHE:HA	1.87	0.75
46:HB:3:GLU:O	46:HB:131:GLN:NE2	2.20	0.75
46:HH:242:PHE:HB3	46:HH:356:ILE:HD13	1.68	0.75
46:IH:222:TYR:O	46:IH:226:ASN:ND2	2.20	0.75
46:KF:207:LEU:HB3	46:KF:225:LEU:HD22	1.69	0.75
45:KK:27:GLU:OE2	45:KK:243:ARG:NH1	2.19	0.75
46:SL:371:SER:O	46:SL:422:TYR:OH	2.04	0.75
46:UN:74:ASP:HA	46:UN:77:ARG:HD2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:139:GLN:OE1	46:AJ:320:ARG:NH2	2.20	0.74
45:DE:387:VAL:HG12	45:DE:390:ARG:HH22	1.51	0.74
46:DH:73:MET:HA	46:DH:76:VAL:HG12	1.69	0.74
45:GK:91:GLN:HG2	45:GK:121:ARG:HD2	1.69	0.74
46:HH:178:THR:HG22	46:HH:180:VAL:H	1.52	0.74
46:HJ:135:ILE:HG13	46:HJ:152:ILE:HD11	1.69	0.74
46:JN:208:TYR:HE1	46:JN:225:LEU:HD11	1.50	0.74
45:OM:55:GLU:HG3	45:OM:57:GLY:H	1.51	0.74
45:QK:268:MET:HG2	45:QK:380:ASN:HB3	1.69	0.74
46:RF:235:GLY:HA3	46:RF:366:THR:HG21	1.69	0.74
45:SE:9:VAL:HG12	45:SE:68:LEU:HB2	1.67	0.74
46:UF:324:LYS:H	45:UG:221:ARG:HH22	1.34	0.74
46:UH:226:ASN:HD21	49:UH:501:GDP:HN1	1.33	0.74
45:UK:258:ASN:HB3	45:UK:352:LYS:HD2	1.68	0.74
18:1I:139:ARG:HH11	46:KF:359:LYS:HD3	1.49	0.74
36:5A:156:VAL:HG23	45:KC:433:GLU:HG2	1.68	0.74
40:6G:125:ASP:OD2	46:VJ:213:ARG:NH2	2.20	0.74
45:HK:326:LYS:HZ1	46:HN:219:THR:HA	1.49	0.74
46:HN:287:PRO:O	46:HN:291:GLN:NE2	2.19	0.74
45:JM:178:SER:OG	46:JN:347:ASN:ND2	2.20	0.74
46:JN:11:GLN:NE2	49:JN:501:GDP:O1A	2.20	0.74
45:NM:180:ALA:HB3	45:NM:183:GLU:HG3	1.70	0.74
46:PH:218:THR:HG23	46:PH:219:THR:HG23	1.68	0.74
46:RL:259:PRO:HD2	46:RL:260:PHE:N	2.02	0.74
46:RL:376:GLU:HB3	46:RL:380:ARG:NH1	2.01	0.74
45:SM:229:ARG:HH12	45:SM:366:GLY:HA2	1.51	0.74
45:TG:271:SER:OG	45:TG:301:MET:SD	2.45	0.74
46:VH:282:ARG:NH2	46:VH:292:GLN:OE1	2.20	0.74
45:CE:211:ASP:HB3	45:CE:215:ARG:NH2	2.02	0.74
8:1H:60:ARG:HH22	46:HN:33:THR:H	1.35	0.74
24:2P:354:LYS:HZ1	46:TN:359:LYS:HG2	1.48	0.74
46:CF:73:MET:HA	46:CF:76:VAL:HG12	1.69	0.74
45:GG:298:PRO:HB3	45:GG:308:ARG:HH12	1.53	0.74
45:HA:176:GLN:OE1	45:HA:304:LYS:NZ	2.20	0.74
46:IF:218:THR:HG23	46:IF:219:THR:HG23	1.69	0.74
45:JC:292:THR:HG21	45:JC:331:SER:HB2	1.67	0.74
45:KA:47:ASP:OD1	45:KA:48:ALA:N	2.17	0.74
46:NB:372:THR:HA	46:NB:422:TYR:HE1	1.53	0.74
45:PK:244:PHE:HB2	45:PK:356:ASN:HD21	1.52	0.74
46:RD:54:ALA:HA	46:SD:283:ALA:HB2	1.69	0.74
46:SJ:173:PRO:HG2	46:SJ:380:ARG:HE	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UH:242:PHE:HB3	46:UH:356:ILE:HD13	1.70	0.74
33:4F:160:THR:HA	46:IN:320:ARG:HH12	1.51	0.74
33:4F:172:LYS:HE2	45:IM:31:GLN:HG3	1.67	0.74
37:5E:173:LYS:HD2	46:KD:194:GLU:HA	1.69	0.74
37:5G:104:MET:HG3	37:5G:105:LYS:H	1.53	0.74
45:AM:46:ASP:OD1	45:AM:47:ASP:N	2.20	0.74
46:EL:235:GLY:HA3	46:EL:366:THR:HG21	1.68	0.74
45:GK:210:TYR:HE1	45:GK:227:LEU:HD11	1.51	0.74
46:JJ:73:MET:HA	46:JJ:76:VAL:HG12	1.69	0.74
45:KA:56:THR:HG23	45:KA:58:ALA:H	1.52	0.74
46:KJ:107:THR:OG1	46:KJ:108:GLU:OE2	2.03	0.74
45:NE:11:GLN:NE2	46:NF:245:GLN:O	2.20	0.74
46:NH:178:THR:HB	46:NH:181:GLU:HG3	1.69	0.74
46:PF:86:ARG:HD2	46:PF:87:PRO:HD2	1.68	0.74
45:RI:244:PHE:HB2	45:RI:356:ASN:HD21	1.50	0.74
45:WM:24:PHE:O	45:WM:28:HIS:ND1	2.18	0.74
7:1G:132:ARG:HH22	45:JA:82:THR:HA	1.50	0.74
46:AJ:322:SER:OG	46:AJ:325:GLU:OE1	2.06	0.74
45:BK:256:GLN:HB2	46:BN:397:TRP:CH2	2.22	0.74
46:CF:164:MET:HB3	46:CF:197:ASP:H	1.51	0.74
45:CG:22:GLU:OE1	45:CG:83:TYR:OH	2.04	0.74
46:EB:2:ARG:NH1	46:EB:131:GLN:OE1	2.20	0.74
46:KB:285:THR:HG23	46:KB:287:PRO:HD2	1.70	0.74
45:NK:285:GLN:HE22	45:NK:287:SER:HB2	1.50	0.74
45:QG:254:GLU:HG2	46:QH:98:GLY:HA2	1.68	0.74
46:SF:174:LYS:HE2	46:SF:205:GLU:HG2	1.67	0.74
45:VA:73:THR:OG1	46:VB:2:ARG:NH2	2.20	0.74
47:WI:501:GTP:O1G	46:WJ:252:LYS:NZ	2.20	0.74
30:2H:167:LYS:NZ	45:MA:55:GLU:OE2	2.19	0.74
15:4X:93:ALA:O	15:4X:97:GLN:NE2	2.21	0.74
37:5H:110:ARG:NH1	37:5H:111:ASN:OD1	2.20	0.74
45:BG:288:VAL:HG11	45:BG:327:ASP:HB3	1.70	0.74
46:CB:377:MET:HA	46:CB:380:ARG:HG2	1.69	0.74
45:EM:5:ILE:HD12	45:EM:125:LEU:HD13	1.68	0.74
45:II:276:ILE:HG21	45:II:281:ALA:HB2	1.69	0.74
46:JF:91:VAL:HG11	46:JF:116:VAL:HG12	1.69	0.74
45:MG:326:LYS:HZ3	46:MJ:208:TYR:HB3	1.53	0.74
46:TH:284:LEU:HD11	46:TH:363:MET:HB3	1.68	0.74
45:VA:324:VAL:HG11	45:VA:326:LYS:HZ2	1.52	0.74
46:VL:107:THR:OG1	46:VL:108:GLU:OE1	2.04	0.74
45:VM:221:ARG:NH1	46:VN:322:SER:OG	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WF:67:ASP:O	46:WF:92:PHE:HA	1.88	0.74
37:5F:44:ARG:NH1	45:OC:284:GLU:O	2.20	0.74
45:KK:336:LYS:HD3	45:KK:351:PHE:HE2	1.52	0.74
46:OB:207:LEU:HB3	46:OB:225:LEU:HD22	1.69	0.74
46:ON:54:ALA:HA	46:PN:283:ALA:HB2	1.68	0.74
46:PF:178:THR:HB	46:PF:181:GLU:HG2	1.70	0.74
46:SD:156:ARG:NH2	46:SD:159:TYR:O	2.21	0.74
46:VB:215:LEU:HB3	46:VB:217:LEU:HD23	1.69	0.74
45:WE:175:PRO:O	45:WE:390:ARG:NH2	2.19	0.74
5:2E:61:LYS:HE2	46:DJ:37:HIS:HA	1.69	0.74
12:2T:224:LYS:N	45:MG:196:GLU:OE1	2.18	0.74
46:FL:322:SER:OG	46:FL:325:GLU:OE1	2.04	0.74
46:ID:200:MET:HG3	46:ID:266:PHE:HB2	1.70	0.74
46:JF:73:MET:HA	46:JF:76:VAL:HG12	1.69	0.74
45:LG:9:VAL:HG12	45:LG:68:LEU:HB2	1.69	0.74
45:NK:221:ARG:NH1	46:NL:325:GLU:OE2	2.21	0.74
45:OC:207:GLU:HA	45:OC:210:TYR:HD1	1.53	0.74
45:PC:31:GLN:NE2	45:PC:35:GLN:O	2.21	0.74
46:UJ:73:MET:HA	46:UJ:76:VAL:HG12	1.69	0.74
46:WJ:1:MET:N	46:WJ:3:GLU:OE2	2.21	0.74
45:AC:386:GLU:OE2	45:AC:390:ARG:NH2	2.21	0.74
46:EF:377:MET:SD	46:EF:380:ARG:NH2	2.61	0.74
45:FE:224:TYR:O	45:FE:228:ASN:ND2	2.19	0.74
45:FK:345:ASP:OD2	46:FN:390:ARG:NH2	2.21	0.74
45:HG:55:GLU:HG3	45:HG:57:GLY:H	1.53	0.74
46:ID:73:MET:HA	46:ID:76:VAL:HG22	1.70	0.74
46:LL:62:ARG:NH1	46:LL:127:CYS:SG	2.61	0.74
45:OA:256:GLN:HG2	46:OD:397:TRP:HH2	1.51	0.74
45:OE:207:GLU:HA	45:OE:210:TYR:HB2	1.70	0.74
46:PB:58:ARG:HH22	46:PB:84:LEU:HA	1.52	0.74
45:QA:259:LEU:O	45:QA:380:ASN:ND2	2.19	0.74
45:WG:31:GLN:NE2	45:WG:35:GLN:O	2.21	0.74
46:FH:242:PHE:HB3	46:FH:356:ILE:HD13	1.68	0.74
46:FJ:135:ILE:HG13	46:FJ:152:ILE:HD11	1.70	0.74
46:LD:7:ILE:HG22	46:LD:64:ILE:HB	1.69	0.74
46:OB:248:SER:HA	46:OB:252:LYS:HD3	1.70	0.74
45:PE:244:PHE:HB2	45:PE:356:ASN:HD21	1.53	0.74
46:QJ:11:GLN:NE2	49:QJ:501:GDP:O1A	2.21	0.74
46:SN:290:THR:HA	46:SN:293:MET:HG3	1.69	0.74
46:TD:325:GLU:HG2	45:TE:221:ARG:NH1	2.03	0.74
46:UD:215:LEU:HB3	46:UD:217:LEU:HD23	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VN:48:ASN:O	46:VN:62:ARG:NH1	2.19	0.74
16:3B:180:GLU:HG2	15:4X:113:LEU:HD21	1.68	0.73
36:5D:19:ARG:HG2	36:5D:20:LEU:H	1.53	0.73
35:5S:183:TYR:HE1	35:5S:225:LEU:HD21	1.53	0.73
46:AF:67:ASP:OD2	46:AF:72:THR:OG1	2.06	0.73
45:CG:226:ASN:ND2	45:CG:367:ASP:OD2	2.21	0.73
45:DE:326:LYS:HE2	46:DF:220:PRO:HD2	1.70	0.73
46:DJ:166:THR:OG1	46:DJ:199:CYS:SG	2.45	0.73
46:EB:48:ASN:O	46:EB:62:ARG:NH1	2.20	0.73
46:IN:248:SER:HA	46:IN:252:LYS:HD2	1.69	0.73
46:LH:134:GLN:NE2	46:LH:233:MET:SD	2.60	0.73
46:NL:242:PHE:HB3	46:NL:356:ILE:HD13	1.69	0.73
46:OF:222:TYR:O	46:OF:226:ASN:ND2	2.16	0.73
45:OM:221:ARG:NH2	46:ON:322:SER:OG	2.19	0.73
45:PC:391:LEU:HG	45:PC:394:LYS:HZ2	1.52	0.73
45:TI:226:ASN:ND2	45:TI:367:ASP:OD2	2.21	0.73
45:UI:352:LYS:HZ1	46:UJ:178:THR:HA	1.53	0.73
27:2C:69:VAL:HG12	46:LJ:41:ASP:HB3	1.71	0.73
15:2X:42:LYS:HG2	45:LI:58:ALA:HB3	1.70	0.73
40:6G:144:LYS:NZ	40:6G:145:TRP:O	2.20	0.73
45:AC:288:VAL:HG11	45:AC:327:ASP:HB3	1.69	0.73
45:FC:11:GLN:NE2	46:FD:247:ASN:OD1	2.22	0.73
45:GA:55:GLU:HG3	45:GA:57:GLY:H	1.53	0.73
45:HK:326:LYS:NZ	46:HN:220:PRO:O	2.21	0.73
45:IG:100:ALA:HA	46:IH:252:LYS:HD3	1.71	0.73
45:IM:50:ASN:O	45:IM:64:ARG:NH2	2.18	0.73
46:IN:396:HIS:HA	46:IN:399:THR:HG22	1.70	0.73
46:JH:418:LEU:O	46:JH:422:TYR:HB2	1.87	0.73
46:JJ:86:ARG:HD3	46:JJ:88:ASP:HB2	1.70	0.73
46:JL:141:GLY:O	46:JL:145:SER:OG	2.05	0.73
46:JN:396:HIS:HA	46:JN:399:THR:HG22	1.68	0.73
46:KF:114:ASP:OD1	46:KF:115:SER:N	2.21	0.73
46:NF:322:SER:OG	46:NF:325:GLU:OE1	2.06	0.73
45:NK:180:ALA:HA	46:NL:350:LYS:HZ1	1.53	0.73
46:OF:8:GLN:HE21	46:OF:65:LEU:HG	1.52	0.73
45:OK:298:PRO:HG3	45:OK:308:ARG:HH12	1.51	0.73
46:RN:200:MET:HG2	46:RN:266:PHE:HB2	1.69	0.73
46:SH:54:ALA:HA	46:TH:283:ALA:HB2	1.70	0.73
45:TC:88:HIS:HB3	45:TC:91:GLN:OE1	1.88	0.73
45:TE:280:LYS:HA	45:TE:283:HIS:HD2	1.52	0.73
45:UG:55:GLU:HG3	45:UG:57:GLY:H	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UK:260:VAL:HB	46:UL:397:TRP:HZ2	1.53	0.73
34:4R:256:LEU:HD12	34:4R:356:THR:HG23	1.68	0.73
34:5R:12:LEU:HB2	34:5R:15:HIS:CD2	2.22	0.73
46:CF:293:MET:HE3	46:CF:367:PHE:HB2	1.70	0.73
45:CM:288:VAL:HG11	45:CM:327:ASP:HB3	1.70	0.73
46:GH:49:VAL:HG11	46:GH:241:ARG:HG2	1.68	0.73
45:GI:64:ARG:NH1	45:GI:129:CYS:SG	2.62	0.73
46:JJ:156:ARG:HG3	46:JJ:195:ASN:HB3	1.68	0.73
45:JK:256:GLN:HB2	46:JN:397:TRP:CZ3	2.23	0.73
45:QC:254:GLU:OE2	45:QC:258:ASN:ND2	2.19	0.73
45:QE:140:SER:OG	47:QE:501:GTP:O2B	2.05	0.73
46:QL:6:HIS:CD2	46:QL:134:GLN:HE22	2.06	0.73
46:VL:226:ASN:HD21	49:VL:501:GDP:HN1	1.33	0.73
23:IO:269:GLN:N	45:UA:282:TYR:CD2	2.56	0.73
44:8R:85:UNK:O	44:8R:87:UNK:O	2.06	0.73
46:AB:207:LEU:HB3	46:AB:225:LEU:HD22	1.70	0.73
46:BJ:67:ASP:O	46:BJ:92:PHE:HA	1.89	0.73
45:DI:11:GLN:NE2	47:DI:501:GTP:O3A	2.21	0.73
46:IN:65:LEU:HB3	46:IN:73:MET:HE2	1.71	0.73
45:KA:206:ASN:OD1	47:KA:501:GTP:N2	2.21	0.73
45:MC:157:LEU:HD22	45:MC:166:LYS:HD3	1.68	0.73
45:OK:178:SER:OG	46:OL:347:ASN:ND2	2.20	0.73
45:OM:50:ASN:O	45:OM:64:ARG:NH1	2.21	0.73
45:QA:268:MET:HG2	45:QA:380:ASN:HB3	1.70	0.73
45:RG:244:PHE:HB2	45:RG:356:ASN:HD21	1.54	0.73
46:RL:156:ARG:NH2	46:RL:159:TYR:O	2.22	0.73
46:TF:262:ARG:NH1	46:TF:421:GLU:OE1	2.22	0.73
46:VH:200:MET:HG3	46:VH:266:PHE:HB2	1.71	0.73
46:VN:68:LEU:HD12	46:VN:93:GLY:HA3	1.69	0.73
46:WJ:68:LEU:HD12	46:WJ:93:GLY:HA3	1.71	0.73
34:6R:546:ASP:HA	34:6R:549:MET:HG2	1.70	0.73
46:BF:222:TYR:O	46:BF:226:ASN:ND2	2.19	0.73
45:CC:88:HIS:HB3	45:CC:91:GLN:HE22	1.54	0.73
45:DK:175:PRO:HG3	45:DK:390:ARG:HH12	1.53	0.73
45:FE:132:LEU:O	45:FE:164:LYS:NZ	2.21	0.73
45:JA:319:TYR:HB3	45:JA:323:VAL:HG21	1.70	0.73
45:OA:326:LYS:HE3	46:OD:220:PRO:HG2	1.68	0.73
46:RB:262:ARG:NH1	46:RB:421:GLU:OE1	2.22	0.73
46:RL:83:GLN:O	46:SL:281:TYR:OH	2.07	0.73
46:SB:139:LEU:HD22	46:SB:170:VAL:HG12	1.69	0.73
46:SJ:318:ARG:HE	46:SJ:358:PRO:HG3	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:3S:121:CYS:SG	46:AN:423:GLN:NE2	2.59	0.73
34:4R:593:ASP:OD2	34:4R:598:TRP:N	2.21	0.73
45:AK:339:ARG:O	45:AK:342:GLN:NE2	2.22	0.73
46:AL:73:MET:HA	46:AL:76:VAL:HG22	1.69	0.73
46:BF:55:THR:HG23	46:CD:283:ALA:HA	1.71	0.73
45:BI:294:SER:HA	45:BI:297:GLU:HG3	1.71	0.73
46:CF:282:ARG:NE	46:CF:288:GLU:OE1	2.19	0.73
46:EB:330:MET:SD	46:EB:351:SER:OG	2.46	0.73
45:HA:288:VAL:HG11	45:HA:327:ASP:HB3	1.70	0.73
45:HG:352:LYS:NZ	45:HG:353:VAL:O	2.22	0.73
46:QF:46:ARG:NH2	45:QG:76:ASP:OD2	2.22	0.73
45:SC:260:VAL:HB	46:SD:397:TRP:HZ2	1.53	0.73
45:SE:215:ARG:NH2	45:SE:300:ASN:OD1	2.21	0.73
46:SF:113:ILE:HG12	46:SF:117:LEU:HD23	1.69	0.73
45:TI:91:GLN:HG2	45:TI:121:ARG:HD2	1.69	0.73
46:VN:213:ARG:HH12	46:VN:297:LYS:HG3	1.53	0.73
11:3S:97:ARG:NH2	46:MN:414:ASN:OD1	2.20	0.73
45:CI:175:PRO:HG3	45:CI:390:ARG:HH12	1.54	0.73
46:GJ:128:ASP:OD2	46:GJ:129:CYS:N	2.22	0.73
46:GL:190:HIS:HD2	46:GL:411:ALA:HA	1.54	0.73
45:HC:349:THR:HG1	46:HF:176:SER:HG	1.35	0.73
45:NE:221:ARG:HH11	45:NE:221:ARG:HA	1.53	0.73
46:NF:200:MET:HG3	46:NF:266:PHE:HB2	1.70	0.73
45:OA:108:TYR:O	45:OA:112:LYS:NZ	2.21	0.73
46:PJ:73:MET:HA	46:PJ:76:VAL:HG12	1.71	0.73
46:UH:282:ARG:HE	46:UH:283:ALA:H	1.35	0.73
46:VD:99:ASN:HA	46:VD:142:GLY:H	1.51	0.73
46:VJ:371:SER:O	46:VJ:422:TYR:OH	2.05	0.73
45:WM:101:ASN:HA	45:WM:144:GLY:H	1.51	0.73
10:1Q:115:LYS:HE2	45:AC:264:ARG:HH11	1.51	0.73
14:3V:125:MET:SD	46:LD:386:THR:OG1	2.46	0.73
15:3X:49:ILE:HD11	45:MM:282:TYR:CD2	2.22	0.73
37:5F:197:LEU:HD13	45:LG:393:HIS:HB2	1.70	0.73
10:5Q:60:THR:HG22	10:5Q:62:PRO:HD2	1.70	0.73
46:AJ:294:PHE:HD2	46:AJ:333:VAL:HG21	1.54	0.73
45:BC:221:ARG:HD2	46:BD:324:LYS:HZ1	1.54	0.73
45:BE:55:GLU:HG3	45:BE:57:GLY:H	1.54	0.73
45:CI:288:VAL:HG21	45:CI:327:ASP:HB3	1.70	0.73
46:CL:273:LEU:H	46:CL:292:GLN:HE22	1.37	0.73
45:DK:292:THR:HG21	45:DK:331:SER:HB3	1.70	0.73
45:FI:108:TYR:HA	45:FI:112:LYS:HE3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FM:55:GLU:HG3	45:FM:57:GLY:H	1.53	0.73
46:JJ:314:SER:HA	46:JJ:350:LYS:HB2	1.71	0.73
45:KE:224:TYR:HA	45:KE:227:LEU:HD12	1.70	0.73
46:LN:377:MET:SD	46:LN:380:ARG:NH2	2.61	0.73
46:NF:372:THR:HA	46:NF:422:TYR:HE1	1.52	0.73
45:OM:90:GLU:OE2	45:OM:121:ARG:NH1	2.21	0.73
45:RI:30:ILE:HD13	45:RI:36:MET:HE3	1.70	0.73
46:RJ:289:LEU:HD11	46:RJ:363:MET:HB3	1.71	0.73
46:SF:324:LYS:HE3	45:SG:214:ARG:HD2	1.70	0.73
46:TL:324:LYS:HD3	45:TM:222:PRO:HD2	1.70	0.73
46:UL:215:LEU:HB3	46:UL:217:LEU:HD23	1.69	0.73
45:VI:221:ARG:NH1	46:VJ:322:SER:OG	2.22	0.73
37:5G:126:LEU:O	45:OI:373:ARG:NH2	2.21	0.73
46:AN:73:MET:HA	46:AN:76:VAL:HG12	1.70	0.73
45:BC:320:ARG:NH1	45:BC:358:GLN:O	2.22	0.73
46:GF:67:ASP:O	46:GF:92:PHE:HA	1.89	0.73
46:JL:54:ALA:HA	46:KL:283:ALA:HB2	1.71	0.73
46:LL:135:ILE:HG13	46:LL:152:ILE:HD11	1.71	0.73
46:MH:1:MET:HG2	46:MH:2:ARG:H	1.52	0.73
46:NB:83:GLN:O	46:OB:281:TYR:OH	2.06	0.73
46:QB:7:ILE:HG12	46:QB:64:ILE:HD13	1.70	0.73
45:QK:141:VAL:HG11	45:QK:172:TYR:HD1	1.53	0.73
46:VD:135:ILE:HG13	46:VD:152:ILE:HD11	1.70	0.73
46:WH:7:ILE:HG22	46:WH:64:ILE:HB	1.70	0.73
46:DJ:2:ARG:HD2	46:DJ:240:LEU:HD11	1.71	0.73
45:FG:91:GLN:HG2	45:FG:121:ARG:HD2	1.70	0.73
45:HI:178:SER:OG	46:HJ:347:ASN:OD1	2.06	0.73
46:KL:114:ASP:OD2	46:KL:115:SER:N	2.22	0.73
45:MK:413:MET:HG3	45:MK:417:GLU:HG3	1.71	0.73
45:PG:221:ARG:NH2	46:PH:325:GLU:OE1	2.22	0.73
45:QK:9:VAL:HG12	45:QK:68:LEU:HB2	1.71	0.73
45:SI:76:ASP:OD1	45:SI:79:ARG:NH2	2.18	0.73
46:UL:68:LEU:HD13	46:UL:93:GLY:HA3	1.71	0.73
46:UL:213:ARG:HH12	46:UL:297:LYS:HB2	1.52	0.73
45:UM:297:GLU:OE2	45:UM:300:ASN:ND2	2.21	0.73
45:UM:326:LYS:HE2	46:UN:220:PRO:HD2	1.68	0.73
45:VC:116:ASP:OD1	45:VC:117:LEU:N	2.21	0.73
45:VG:209:ILE:HG21	45:VG:227:LEU:HG	1.71	0.73
45:WG:326:LYS:HE2	46:WJ:220:PRO:HD2	1.70	0.73
1:3A:129:PRO:HD3	46:AN:362:LYS:HE2	1.70	0.72
46:AJ:97:ALA:HB3	46:AJ:143:THR:HB	1.69	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:86:ARG:HH22	46:DF:280:GLN:HB2	1.54	0.72
46:CH:11:GLN:NE2	49:CH:501:GDP:O2A	2.21	0.72
45:CM:128:ASN:OD1	45:DM:285:GLN:NE2	2.20	0.72
46:EB:222:TYR:O	46:EB:226:ASN:ND2	2.22	0.72
45:EC:75:ILE:HD11	45:EC:92:LEU:HB2	1.71	0.72
45:EC:209:ILE:HG22	45:EC:302:MET:HB2	1.71	0.72
46:EL:73:MET:HA	46:EL:76:VAL:HG12	1.71	0.72
46:IL:73:MET:HA	46:IL:76:VAL:HG12	1.71	0.72
46:JJ:173:PRO:HG2	46:JJ:380:ARG:HD2	1.71	0.72
46:OJ:226:ASN:HD21	49:OJ:501:GDP:HN1	1.37	0.72
46:TH:226:ASN:HD21	49:TH:501:GDP:HN1	1.35	0.72
45:UG:288:VAL:HG13	45:UG:373:ARG:HH21	1.52	0.72
45:VK:178:SER:OG	45:VK:183:GLU:OE2	2.06	0.72
46:WB:4:ILE:HD11	46:WB:131:GLN:HB2	1.70	0.72
46:WJ:6:HIS:O	46:WJ:63:ALA:HA	1.89	0.72
46:WL:73:MET:HA	46:WL:76:VAL:HG12	1.71	0.72
33:4F:125:ASN:ND2	46:IL:245:GLN:OE1	2.21	0.72
45:AK:11:GLN:NE2	46:AL:247:ASN:OD1	2.22	0.72
46:CH:87:PRO:HA	46:CH:90:PHE:HD2	1.54	0.72
46:EB:258:ILE:HG13	46:EB:266:PHE:HZ	1.54	0.72
45:EC:274:PRO:HG3	45:EC:286:LEU:HD11	1.71	0.72
46:ED:323:THR:OG1	45:EE:210:TYR:OH	2.06	0.72
46:IH:156:ARG:NH1	46:IH:195:ASN:O	2.22	0.72
46:IL:109:GLY:HA2	46:IL:147:MET:HE2	1.70	0.72
46:NN:236:VAL:HG13	46:NN:237:THR:HG23	1.69	0.72
45:OC:90:GLU:OE2	45:OC:121:ARG:NH1	2.22	0.72
46:PH:207:LEU:HB3	46:PH:225:LEU:HD22	1.70	0.72
46:QB:2:ARG:HH21	45:QC:97:GLU:HB2	1.54	0.72
46:TH:86:ARG:HD2	46:TH:87:PRO:HD2	1.72	0.72
45:VI:1:MET:SD	45:VI:2:ARG:NH1	2.63	0.72
46:VJ:325:GLU:HA	46:VJ:328:GLU:HG3	1.72	0.72
34:7R:387:PRO:O	46:EB:276:ARG:NH1	2.22	0.72
46:BH:314:SER:HA	46:BH:350:LYS:HB2	1.72	0.72
45:DG:326:LYS:NZ	46:DH:220:PRO:O	2.20	0.72
45:FK:73:THR:HA	46:FL:46:ARG:HH22	1.53	0.72
46:KH:292:GLN:HG2	46:KH:298:ASN:HD22	1.54	0.72
46:KJ:313:ALA:HB3	46:KJ:349:ILE:HG22	1.68	0.72
45:QC:140:SER:OG	47:QC:501:GTP:O2B	2.06	0.72
45:TE:339:ARG:O	45:TE:342:GLN:NE2	2.23	0.72
45:TK:33:ASP:OD1	45:TK:85:GLN:NE2	2.22	0.72
46:UB:186:THR:HG22	46:UB:190:HIS:CE1	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:132:GLY:HA3	46:UF:163:ILE:O	1.88	0.72
46:UH:48:ASN:O	46:UH:62:ARG:NH1	2.21	0.72
45:VK:348:PRO:HD3	46:VN:388:MET:HE1	1.68	0.72
45:WC:116:ASP:OD1	45:WC:117:LEU:N	2.22	0.72
31:2I:46:TYR:HD2	46:GH:291:GLN:HB2	1.53	0.72
31:2I:139:ARG:NH2	46:GD:340:TYR:HB2	2.04	0.72
46:DD:86:ARG:HH21	46:ED:282:ARG:HG2	1.53	0.72
46:FH:213:ARG:O	46:FH:216:LYS:NZ	2.19	0.72
46:KB:156:ARG:HG3	46:KB:195:ASN:HB3	1.71	0.72
45:LA:36:MET:HG2	45:LA:38:SER:H	1.54	0.72
45:LM:287:SER:OG	45:LM:290:GLU:OE1	2.07	0.72
46:OB:135:ILE:HG13	46:OB:152:ILE:HD11	1.72	0.72
45:OE:256:GLN:HG2	46:OH:397:TRP:HH2	1.55	0.72
46:QD:215:LEU:HD22	46:QD:217:LEU:HD23	1.70	0.72
46:QL:6:HIS:HD2	46:QL:134:GLN:HE22	1.37	0.72
46:QL:7:ILE:HG22	46:QL:64:ILE:HB	1.70	0.72
46:SH:245:GLN:O	45:SI:11:GLN:NE2	2.22	0.72
46:UF:207:LEU:HB3	46:UF:225:LEU:HD22	1.71	0.72
46:UL:226:ASN:HD21	49:UL:501:GDP:HN1	1.36	0.72
45:WC:195:LEU:HD21	45:WC:264:ARG:HH21	1.54	0.72
45:WC:422:ARG:HH12	45:WC:426:ALA:HB2	1.53	0.72
46:CH:396:HIS:HA	46:CH:399:THR:HG22	1.70	0.72
45:FC:407:TRP:HZ2	46:FD:258:ILE:HD11	1.53	0.72
46:IB:19:LYS:NZ	46:IB:223:GLY:O	2.22	0.72
45:LK:278:ALA:HA	45:LK:281:ALA:HB3	1.71	0.72
45:PC:116:ASP:HA	45:PC:156:ARG:HH12	1.55	0.72
45:PG:214:ARG:HG2	45:PG:215:ARG:HH12	1.54	0.72
46:RB:15:GLN:NE2	49:RB:501:GDP:N7	2.36	0.72
46:SH:309:ARG:NH2	46:SH:426:GLN:O	2.20	0.72
46:SJ:11:GLN:NE2	46:SJ:12:CYS:SG	2.62	0.72
46:TJ:313:ALA:HB3	46:TJ:349:ILE:HG12	1.70	0.72
46:UB:200:MET:HG3	46:UB:266:PHE:HB2	1.71	0.72
45:VA:326:LYS:HZ1	46:VD:219:THR:HA	1.53	0.72
45:VK:69:ASP:HB3	45:VK:75:ILE:HD11	1.70	0.72
46:VL:207:LEU:HB3	46:VL:225:LEU:HD22	1.68	0.72
45:WG:55:GLU:HG3	45:WG:57:GLY:H	1.52	0.72
46:WJ:164:MET:HG3	46:WJ:197:ASP:HB2	1.72	0.72
14:2V:239:ARG:HH22	45:VE:55:GLU:HG2	1.52	0.72
25:3R:290:SER:O	46:DL:276:ARG:NH2	2.20	0.72
46:AH:58:ARG:HD2	46:BH:280:GLN:HE22	1.54	0.72
46:DD:86:ARG:CZ	46:ED:281:TYR:HB2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HE:258:ASN:HB3	45:HE:352:LYS:HD2	1.71	0.72
46:ID:8:GLN:HE21	46:ID:65:LEU:HG	1.53	0.72
45:OC:210:TYR:CD1	46:OD:324:LYS:HE3	2.24	0.72
45:PA:215:ARG:NH2	45:PA:299:ALA:O	2.23	0.72
46:RB:86:ARG:HH22	46:SB:282:ARG:HD2	1.53	0.72
46:SJ:135:ILE:HG13	46:SJ:152:ILE:HD11	1.71	0.72
46:UF:345:ILE:HA	45:UG:398:MET:HE1	1.71	0.72
46:UH:215:LEU:HB3	46:UH:217:LEU:HD23	1.72	0.72
46:UL:3:GLU:HG3	46:UL:49:VAL:HA	1.72	0.72
46:UL:135:ILE:HG13	46:UL:152:ILE:HD11	1.72	0.72
46:VF:100:ASN:HD22	46:VF:103:LYS:HG3	1.55	0.72
31:3I:197:GLN:NE2	45:FK:123:ARG:O	2.22	0.72
34:5R:12:LEU:HB2	34:5R:15:HIS:HD2	1.54	0.72
46:AF:73:MET:HA	46:AF:76:VAL:HG12	1.70	0.72
46:AF:372:THR:HA	46:AF:422:TYR:HE2	1.53	0.72
46:DL:350:LYS:HE3	45:DM:180:ALA:HA	1.71	0.72
45:FG:292:THR:HG21	45:FG:331:SER:HB3	1.70	0.72
45:FG:394:LYS:NZ	46:FH:346:PRO:O	2.23	0.72
45:HE:316:SER:HA	45:HE:352:LYS:HB2	1.72	0.72
45:HI:292:THR:HG21	45:HI:331:SER:HB3	1.71	0.72
45:HK:414:GLU:HB3	45:HK:417:GLU:HG2	1.71	0.72
45:IE:326:LYS:HD3	46:IH:220:PRO:HD2	1.71	0.72
46:KF:218:THR:HG23	46:KF:219:THR:HG23	1.72	0.72
45:KI:292:THR:HG21	45:KI:331:SER:HB3	1.69	0.72
45:NI:55:GLU:HG3	45:NI:57:GLY:H	1.55	0.72
46:NJ:213:ARG:HH22	46:NJ:297:LYS:HB3	1.52	0.72
45:NM:301:MET:HG3	45:NM:303:ALA:H	1.55	0.72
46:OH:178:THR:HG22	46:OH:180:VAL:H	1.55	0.72
46:QH:257:LEU:HD11	46:QH:314:SER:HB2	1.72	0.72
45:QI:244:PHE:HB2	45:QI:356:ASN:HD21	1.55	0.72
46:RJ:15:GLN:NE2	49:RJ:501:GDP:N7	2.37	0.72
45:TE:287:SER:N	45:TE:290:GLU:OE2	2.20	0.72
35:4S:209:ARG:HH22	46:WD:118:ASP:HB2	1.53	0.72
40:6G:136:PRO:O	45:UI:123:ARG:NH1	2.23	0.72
34:6R:296:GLY:HA3	46:DN:276:ARG:HB3	1.72	0.72
45:AA:288:VAL:HG11	45:AA:327:ASP:HB3	1.70	0.72
45:CA:288:VAL:HG11	45:CA:327:ASP:HB3	1.71	0.72
46:CD:248:SER:HA	46:CD:252:LYS:HD2	1.70	0.72
46:KH:260:PHE:HB2	46:KH:263:LEU:HD13	1.72	0.72
45:LI:292:THR:HG21	45:LI:331:SER:HB3	1.69	0.72
46:ND:178:THR:HB	46:ND:181:GLU:HG3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:292:THR:HG21	45:NG:331:SER:HB3	1.70	0.72
46:NJ:236:VAL:HG23	46:NJ:237:THR:HG23	1.72	0.72
46:PD:319:GLY:HA2	46:PD:357:PRO:HG3	1.71	0.72
46:PJ:217:LEU:HD23	46:PJ:219:THR:H	1.54	0.72
45:PK:1:MET:SD	46:PN:94:GLN:NE2	2.63	0.72
45:PK:15:GLN:NE2	47:PK:501:GTP:O6	2.22	0.72
46:RD:322:SER:OG	46:RD:325:GLU:OE1	2.07	0.72
46:RH:12:CYS:HA	46:RH:15:GLN:HE21	1.53	0.72
45:TE:288:VAL:HG11	45:TE:327:ASP:HB3	1.71	0.72
46:TL:42:LEU:HB3	46:TL:242:PHE:HE1	1.55	0.72
46:UF:215:LEU:HB3	46:UF:217:LEU:HD23	1.70	0.72
46:WF:218:THR:HG23	46:WF:219:THR:HG23	1.71	0.72
17:1F:158:ASN:ND2	46:HL:337:ASN:OD1	2.22	0.72
1:2A:129:PRO:HD3	46:AJ:362:LYS:HG2	1.70	0.72
16:2B:62:THR:HA	45:LK:84:ARG:HH22	1.53	0.72
37:5E:120:GLU:HG2	37:5E:121:GLU:H	1.54	0.72
46:CH:330:MET:HB3	46:CH:349:ILE:HD12	1.72	0.72
45:FG:76:ASP:OD1	45:FG:79:ARG:NH2	2.22	0.72
46:HH:73:MET:HA	46:HH:76:VAL:HG12	1.72	0.72
45:MA:47:ASP:OD1	45:MA:50:ASN:ND2	2.23	0.72
45:MC:292:THR:HG21	45:MC:331:SER:HB2	1.71	0.72
45:MG:406:HIS:HA	45:MG:409:VAL:HG12	1.70	0.72
46:ML:73:MET:HA	46:ML:76:VAL:HG12	1.70	0.72
45:MM:282:TYR:OH	45:MM:370:LYS:O	2.07	0.72
45:PE:11:GLN:NE2	46:PF:247:ASN:OD1	2.22	0.72
45:VK:261:PRO:HD2	45:VK:262:TYR:N	2.04	0.72
45:WE:256:GLN:HG2	45:WE:260:VAL:HB	1.72	0.72
45:WG:9:VAL:HG12	45:WG:68:LEU:HB2	1.70	0.72
46:WJ:135:ILE:HG13	46:WJ:152:ILE:HD11	1.72	0.72
45:DC:140:SER:OG	47:DC:501:GTP:O2B	2.08	0.72
36:5D:87:ARG:NH2	45:NM:364:PRO:O	2.23	0.72
46:AJ:178:THR:HG22	46:AJ:180:VAL:H	1.52	0.72
46:AN:148:GLY:O	46:AN:152:ILE:HG12	1.90	0.72
46:CB:49:VAL:HG13	46:CB:50:TYR:HD2	1.54	0.72
46:CD:207:LEU:HB3	46:CD:225:LEU:HD22	1.72	0.72
45:DI:141:VAL:HG11	45:DI:172:TYR:HD1	1.54	0.72
45:GC:311:LYS:NZ	45:GC:342:GLN:OE1	2.20	0.72
46:GF:285:THR:N	46:GF:288:GLU:OE2	2.23	0.72
45:JA:220:GLU:HG3	45:JA:221:ARG:HG2	1.70	0.72
45:JC:90:GLU:HG3	45:JC:121:ARG:HH12	1.55	0.72
46:KN:213:ARG:HH12	46:KN:297:LYS:HE2	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LN:285:THR:OG1	46:LN:288:GLU:OE1	2.08	0.72
45:NA:73:THR:OG1	46:NB:46:ARG:NH2	2.22	0.72
45:NE:141:VAL:HG11	45:NE:172:TYR:HD1	1.55	0.72
46:PF:8:GLN:HE21	46:PF:65:LEU:HD22	1.53	0.72
46:TF:258:ILE:HD11	45:TG:407:TRP:HZ2	1.54	0.72
45:TK:288:VAL:HG21	45:TK:327:ASP:HB3	1.70	0.72
45:VI:22:GLU:OE1	45:VI:83:TYR:OH	2.07	0.72
45:WK:41:THR:HG22	45:WK:42:ILE:H	1.54	0.72
11:3S:140:ARG:CZ	10:5Q:72:LYS:HD2	2.20	0.71
45:JA:115:VAL:HG11	45:JA:152:LEU:HD22	1.72	0.71
46:LB:86:ARG:HD3	46:LB:87:PRO:HD2	1.70	0.71
45:NC:271:SER:OG	45:NC:301:MET:SD	2.47	0.71
45:NC:292:THR:HG21	45:NC:331:SER:HB3	1.72	0.71
46:OB:276:ARG:NH2	46:OB:279:GLN:OE1	2.22	0.71
46:QB:86:ARG:HE	46:QB:87:PRO:HD2	1.54	0.71
46:QF:207:LEU:HB3	46:QF:225:LEU:HD22	1.70	0.71
45:QG:195:LEU:HD21	45:QG:264:ARG:HE	1.55	0.71
46:SJ:163:ILE:HD12	46:SJ:250:LEU:HD22	1.71	0.71
45:UK:2:ARG:HH12	46:UL:70:PRO:HD2	1.54	0.71
45:WI:326:LYS:HD2	46:WL:208:TYR:HB3	1.71	0.71
33:4F:198:LYS:NZ	45:IM:217:LEU:O	2.23	0.71
34:5R:284:THR:HG22	34:5R:308:LYS:HG2	1.71	0.71
45:AA:69:ASP:OD1	45:AA:71:GLU:N	2.23	0.71
46:CB:11:GLN:NE2	49:CB:501:GDP:O1A	2.22	0.71
46:CB:135:ILE:HG13	46:CB:152:ILE:HD11	1.72	0.71
45:CG:212:ILE:HD13	45:CG:215:ARG:HH22	1.55	0.71
45:DI:288:VAL:HG11	45:DI:327:ASP:HB3	1.71	0.71
46:DL:83:GLN:O	46:EL:281:TYR:OH	2.08	0.71
46:EB:1:MET:O	46:EB:46:ARG:NH2	2.22	0.71
46:HN:304:ASP:HB3	46:HN:307:HIS:CE1	2.24	0.71
45:NK:54:SER:HB3	45:NK:64:ARG:HE	1.54	0.71
45:NM:55:GLU:HG3	45:NM:57:GLY:H	1.53	0.71
46:PD:11:GLN:O	46:PD:15:GLN:NE2	2.23	0.71
46:UB:258:ILE:HD12	46:UB:264:HIS:HB3	1.72	0.71
45:WI:292:THR:HG21	45:WI:331:SER:HB3	1.73	0.71
3:0C:37:ILE:HD11	45:DI:79:ARG:HB2	1.72	0.71
37:5E:69:LYS:NZ	37:5E:70:GLU:O	2.22	0.71
37:5F:147:GLN:HA	37:5F:150:ILE:HG22	1.70	0.71
34:7R:137:SER:HA	46:BD:276:ARG:HH21	1.55	0.71
45:AE:178:SER:OG	46:AF:347:ASN:ND2	2.23	0.71
46:CD:318:ARG:HB2	46:CD:364:ALA:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FA:157:LEU:HD22	45:FA:166:LYS:HD3	1.71	0.71
46:JB:200:MET:HG2	46:JB:266:PHE:HB2	1.71	0.71
45:JE:31:GLN:HE22	45:JE:37:PRO:HG3	1.55	0.71
45:KA:15:GLN:NE2	47:KA:501:GTP:O6	2.23	0.71
45:KA:64:ARG:NH1	45:KA:129:CYS:SG	2.63	0.71
46:LB:257:LEU:HD21	46:LB:314:SER:HB2	1.72	0.71
45:LC:11:GLN:NE2	46:LD:245:GLN:O	2.24	0.71
45:MK:259:LEU:HD21	45:MK:316:SER:HB3	1.73	0.71
46:NB:187:LEU:O	46:NB:191:GLN:NE2	2.23	0.71
46:PH:207:LEU:HD13	46:PH:225:LEU:HB3	1.71	0.71
46:QB:169:VAL:HG12	46:QB:202:ILE:HB	1.73	0.71
46:QL:6:HIS:CD2	46:QL:8:GLN:HE22	2.07	0.71
45:QM:21:TRP:HA	45:QM:24:PHE:HB2	1.70	0.71
45:RM:227:LEU:HD11	47:RM:501:GTP:HN1	1.56	0.71
46:TB:334:GLN:HA	46:TB:341:PHE:HE2	1.56	0.71
45:TK:131:GLY:O	45:TK:133:GLN:NE2	2.23	0.71
46:TN:100:ASN:ND2	46:TN:401:GLU:OE1	2.23	0.71
46:VN:83:GLN:HE21	46:VN:84:LEU:HD22	1.55	0.71
46:WB:276:ARG:O	46:WB:279:GLN:NE2	2.23	0.71
2:OB:223:LYS:HE2	45:JI:357:TYR:CD2	2.26	0.71
25:2R:312:GLN:HE22	46:CH:361:LEU:N	1.88	0.71
10:3Q:36:ARG:HG3	35:5S:204:ILE:HD13	1.72	0.71
25:3R:380:PRO:HB2	46:EL:279:GLN:HE21	1.54	0.71
45:BC:326:LYS:HE3	46:BF:219:THR:HA	1.72	0.71
45:BK:219:ILE:HG22	45:BK:222:PRO:HD3	1.70	0.71
46:CB:73:MET:HA	46:CB:76:VAL:HG12	1.72	0.71
46:CF:222:TYR:O	46:CF:226:ASN:ND2	2.21	0.71
45:GE:60:LYS:NZ	45:GE:85:GLN:O	2.22	0.71
45:HE:244:PHE:HB2	45:HE:356:ASN:HD21	1.55	0.71
46:IL:213:ARG:HD2	46:IL:297:LYS:HD3	1.72	0.71
45:JG:65:ALA:O	45:JG:91:GLN:NE2	2.24	0.71
46:LD:309:ARG:NH1	46:LD:426:GLN:O	2.23	0.71
46:LF:200:MET:HG2	46:LF:266:PHE:HB2	1.70	0.71
46:LJ:207:LEU:HB3	46:LJ:225:LEU:HD22	1.72	0.71
46:NB:318:ARG:HG2	46:NB:357:PRO:HA	1.71	0.71
45:OA:207:GLU:HB2	45:OA:304:LYS:HD3	1.71	0.71
45:QG:119:LEU:HG	45:QG:156:ARG:HE	1.54	0.71
45:QI:9:VAL:HG12	45:QI:68:LEU:HB2	1.72	0.71
45:QK:258:ASN:HB3	45:QK:352:LYS:HD2	1.71	0.71
46:RH:5:VAL:HG12	46:RH:62:ARG:HD3	1.72	0.71
46:SL:6:HIS:HE1	46:SL:8:GLN:HB3	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:149:THR:OG1	46:TF:191:GLN:OE1	2.08	0.71
46:TL:119:VAL:HA	46:TL:122:LYS:HE3	1.72	0.71
45:WA:258:ASN:HD21	45:WA:352:LYS:HE3	1.53	0.71
46:WD:49:VAL:HG11	46:WD:241:ARG:HG2	1.71	0.71
20:1K:212:ARG:NH1	45:GA:372:MET:SD	2.62	0.71
23:2O:406:ARG:HG3	46:VD:276:ARG:NH2	2.06	0.71
25:3R:300:LYS:NZ	46:CL:79:GLY:HA2	2.06	0.71
11:3S:17:LYS:HE3	46:WN:92:PHE:HE2	1.54	0.71
45:AE:259:LEU:HD11	45:AE:316:SER:HB3	1.70	0.71
45:BI:292:THR:HG21	45:BI:331:SER:HB3	1.73	0.71
46:ED:73:MET:HA	46:ED:76:VAL:HG12	1.72	0.71
45:EM:271:SER:OG	45:EM:301:MET:SD	2.49	0.71
45:HK:27:GLU:OE1	45:HK:243:ARG:NH1	2.23	0.71
45:JI:90:GLU:HG3	45:KI:280:LYS:HZ1	1.55	0.71
45:KI:128:ASN:C	45:KI:128:ASN:HD22	1.93	0.71
45:MI:96:LYS:NZ	46:MJ:1:MET:SD	2.62	0.71
46:ON:215:LEU:HB3	46:ON:217:LEU:HD23	1.71	0.71
46:PN:257:LEU:HD11	46:PN:314:SER:HB3	1.72	0.71
45:RE:254:GLU:OE2	45:RE:258:ASN:ND2	2.23	0.71
46:RN:139:LEU:HD22	46:RN:170:VAL:HG12	1.73	0.71
45:SI:169:PHE:HB3	45:SI:204:LEU:HD11	1.72	0.71
46:TD:68:LEU:HD13	46:TD:93:GLY:HA3	1.72	0.71
46:UB:223:GLY:O	46:UB:227:HIS:ND1	2.23	0.71
45:VI:326:LYS:HG2	46:VL:220:PRO:HG2	1.72	0.71
45:WE:215:ARG:HH12	45:WE:299:ALA:HB1	1.55	0.71
46:WH:16:ILE:HD12	46:WH:229:VAL:HG11	1.73	0.71
35:4S:109:LEU:HD21	35:4S:164:LYS:HG3	1.70	0.71
37:5E:83:LEU:HD11	45:KA:405:VAL:HB	1.73	0.71
46:BH:4:ILE:HD11	46:BH:131:GLN:HB2	1.73	0.71
46:DJ:281:TYR:HB3	46:DJ:282:ARG:HH21	1.55	0.71
46:DL:371:SER:O	46:DL:422:TYR:OH	2.07	0.71
45:GA:254:GLU:HG2	46:GD:98:GLY:HA2	1.72	0.71
45:IK:175:PRO:HA	45:IK:390:ARG:NH1	2.04	0.71
46:IN:68:LEU:HB3	46:IN:96:GLY:HA2	1.72	0.71
46:LD:107:THR:OG1	46:LD:108:GLU:OE1	2.09	0.71
46:MB:73:MET:HA	46:MB:76:VAL:HG12	1.73	0.71
45:NI:72:PRO:HD2	46:NJ:2:ARG:HH21	1.55	0.71
46:OD:164:MET:SD	46:OD:197:ASP:N	2.61	0.71
45:OM:174:SER:OG	45:OM:206:ASN:OD1	2.09	0.71
46:QB:299:MET:HE3	46:QB:305:PRO:HD3	1.70	0.71
46:QD:200:MET:HE2	46:QD:266:PHE:HB2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QI:2:ARG:NH1	46:QJ:69:GLU:OE2	2.23	0.71
46:TF:226:ASN:HD21	49:TF:501:GDP:HN1	1.37	0.71
46:VB:91:VAL:HG21	46:VB:116:VAL:HG12	1.72	0.71
45:VE:287:SER:N	45:VE:290:GLU:OE2	2.23	0.71
36:5D:89:TYR:HD2	45:NM:364:PRO:HB3	1.54	0.71
36:5D:90:GLN:HE21	36:5D:98:LEU:HG	1.55	0.71
40:6G:173:GLU:OE1	40:6G:177:ARG:NH1	2.23	0.71
34:6R:474:MET:SD	34:6R:476:HIS:ND1	2.64	0.71
46:DJ:200:MET:HG3	46:DJ:266:PHE:HB2	1.70	0.71
45:SM:220:GLU:OE2	45:SM:221:ARG:NH1	2.24	0.71
45:TK:188:ILE:HD12	45:TK:425:LEU:HD11	1.72	0.71
45:VK:76:ASP:OD2	46:VL:46:ARG:NH2	2.23	0.71
45:VK:173:PRO:O	45:VK:390:ARG:NH2	2.24	0.71
46:WN:66:MET:HE1	46:WN:147:MET:HG2	1.73	0.71
45:AA:69:ASP:OD1	45:AA:70:LEU:N	2.24	0.71
45:AA:101:ASN:HA	45:AA:144:GLY:H	1.56	0.71
46:AB:100:ASN:ND2	46:AB:401:GLU:OE1	2.24	0.71
46:BD:222:TYR:O	46:BD:226:ASN:ND2	2.20	0.71
46:BH:276:ARG:HA	46:BH:279:GLN:HG2	1.72	0.71
45:BI:55:GLU:HG3	45:BI:57:GLY:H	1.55	0.71
45:BK:210:TYR:HE1	45:BK:227:LEU:HD11	1.55	0.71
46:CD:371:SER:O	46:CD:422:TYR:OH	2.09	0.71
45:CK:244:PHE:HB2	45:CK:356:ASN:HD21	1.55	0.71
45:EM:377:MET:HE1	45:EM:379:SER:HB3	1.73	0.71
45:FK:288:VAL:HG11	45:FK:327:ASP:HB3	1.72	0.71
45:GC:109:THR:HG22	45:GC:110:ILE:HG23	1.72	0.71
46:GH:68:LEU:HD21	46:GH:147:MET:HE3	1.70	0.71
45:GM:221:ARG:NH1	46:GN:322:SER:OG	2.23	0.71
46:JF:54:ALA:HA	46:KF:283:ALA:HB2	1.72	0.71
45:KM:414:GLU:HG2	45:KM:416:GLY:H	1.55	0.71
46:LN:135:ILE:HG13	46:LN:152:ILE:HD11	1.70	0.71
46:NN:130:LEU:HD22	46:NN:162:ARG:HG3	1.73	0.71
46:OF:83:GLN:O	46:PF:281:TYR:OH	2.07	0.71
45:PA:51:THR:O	45:PA:64:ARG:NH1	2.22	0.71
46:PD:86:ARG:HH21	46:PD:87:PRO:HG2	1.56	0.71
46:QH:322:SER:OG	46:QH:325:GLU:OE1	2.07	0.71
45:VA:399:TYR:O	45:VA:402:ARG:NH1	2.23	0.71
11:OS:278:ARG:HH22	46:WB:119:VAL:HG13	1.53	0.71
14:2V:91:GLY:HA3	46:LF:194:GLU:HB3	1.73	0.71
36:5C:68:ASP:OD1	37:5G:69:LYS:NZ	2.19	0.71
40:6G:166:PHE:CE2	46:VH:212:PHE:HB3	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:221:ARG:NH1	46:GH:325:GLU:OE2	2.24	0.71
45:HI:2:ARG:HB3	45:HI:133:GLN:HE22	1.55	0.71
45:IG:121:ARG:HH12	45:IG:124:LYS:HE3	1.56	0.71
45:IM:11:GLN:NE2	47:IM:501:GTP:O3A	2.24	0.71
46:JH:217:LEU:HD23	46:JH:219:THR:H	1.56	0.71
45:JK:406:HIS:HA	45:JK:409:VAL:HG12	1.73	0.71
46:KL:207:LEU:HB3	46:KL:225:LEU:HD22	1.72	0.71
45:OI:1:MET:SD	46:OL:94:GLN:NE2	2.64	0.71
45:RA:215:ARG:NH2	45:RA:300:ASN:OD1	2.23	0.71
46:SF:268:ILE:HG22	46:SF:368:VAL:HG22	1.73	0.71
45:UI:88:HIS:CE1	45:UI:90:GLU:HG2	2.26	0.71
45:UK:352:LYS:HZ1	46:UL:178:THR:HA	1.55	0.71
45:UM:101:ASN:HA	45:UM:144:GLY:H	1.55	0.71
46:WB:48:ASN:O	46:WB:62:ARG:NH1	2.22	0.71
11:1S:184:PRO:HG3	45:WC:127:ASP:HB3	1.72	0.71
21:2L:658:ARG:NH2	46:BN:41:ASP:O	2.24	0.71
45:AM:55:GLU:HG3	45:AM:57:GLY:H	1.54	0.71
45:CI:180:ALA:HB3	45:CI:183:GLU:HG3	1.73	0.71
46:CJ:325:GLU:OE2	45:CK:221:ARG:NH1	2.23	0.71
46:DH:6:HIS:O	46:DH:63:ALA:HA	1.91	0.71
46:DH:67:ASP:O	46:DH:92:PHE:HA	1.91	0.71
46:DL:350:LYS:HZ1	45:DM:181:VAL:H	1.39	0.71
46:EH:11:GLN:NE2	49:EH:501:GDP:O1A	2.23	0.71
45:IG:242:LEU:HD11	45:IG:252:ILE:HD11	1.73	0.71
46:ND:262:ARG:NH2	46:ND:414:ASN:OD1	2.24	0.71
45:PA:352:LYS:HE2	46:PD:179:VAL:HG22	1.73	0.71
45:PK:326:LYS:HE2	46:PN:220:PRO:HD2	1.72	0.71
45:RE:387:VAL:HG12	45:RE:390:ARG:HH22	1.55	0.71
46:RF:223:GLY:O	46:RF:227:HIS:ND1	2.23	0.71
46:TF:32:PRO:O	46:TF:83:GLN:NE2	2.22	0.71
45:TG:392:ASP:OD1	45:TG:422:ARG:NH1	2.24	0.71
46:TL:271:ALA:HB3	46:TL:365:VAL:HB	1.73	0.71
45:VA:221:ARG:NH1	46:VB:325:GLU:OE2	2.24	0.71
45:WA:11:GLN:NE2	45:WA:71:GLU:OE2	2.24	0.71
45:WE:288:VAL:HG11	45:WE:327:ASP:HB3	1.70	0.71
45:WG:292:THR:HG21	45:WG:331:SER:HB3	1.71	0.71
17:1F:21:GLN:HE22	46:HL:320:ARG:HD3	1.55	0.70
19:1J:315:PHE:HB2	45:IK:282:TYR:CE2	2.26	0.70
20:2K:318:GLN:OE1	45:GI:370:LYS:NZ	2.24	0.70
35:5S:126:GLU:OE1	35:5S:130:ARG:NH2	2.21	0.70
34:6R:455:VAL:HB	34:6R:471:LEU:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BG:31:GLN:HE22	45:BG:37:PRO:HG3	1.55	0.70
45:EM:65:ALA:O	45:EM:121:ARG:NH2	2.22	0.70
45:FK:132:LEU:HD23	45:FK:164:LYS:HE2	1.73	0.70
46:HJ:68:LEU:HB3	46:HJ:96:GLY:HA2	1.73	0.70
45:IG:288:VAL:HG21	45:IG:327:ASP:HB3	1.73	0.70
46:IJ:6:HIS:CD2	46:IJ:134:GLN:HE22	2.08	0.70
46:IJ:135:ILE:HG13	46:IJ:152:ILE:HD11	1.73	0.70
46:MD:73:MET:HA	46:MD:76:VAL:HG12	1.73	0.70
45:OA:184:PRO:HB3	45:OA:394:LYS:HG3	1.72	0.70
45:PK:175:PRO:HG3	45:PK:390:ARG:HH12	1.56	0.70
46:QH:83:GLN:O	46:RH:281:TYR:OH	2.08	0.70
45:TC:260:VAL:HB	46:TD:397:TRP:HZ2	1.54	0.70
45:UI:292:THR:HG21	45:UI:331:SER:HB3	1.73	0.70
46:UJ:350:LYS:HZ3	45:UK:181:VAL:N	1.88	0.70
46:WF:273:LEU:H	46:WF:292:GLN:HE22	1.39	0.70
45:WK:292:THR:HG21	45:WK:331:SER:HB3	1.70	0.70
46:WN:187:LEU:O	46:WN:191:GLN:NE2	2.24	0.70
34:4R:450:ASP:OD2	34:4R:452:THR:OG1	2.07	0.70
37:5F:123:ARG:HA	45:OE:370:LYS:HE2	1.73	0.70
46:AF:77:ARG:HH12	46:AF:90:PHE:HE2	1.39	0.70
45:BA:76:ASP:OD2	46:BB:46:ARG:NH2	2.23	0.70
46:BL:73:MET:HA	46:BL:76:VAL:HG12	1.73	0.70
46:CJ:222:TYR:O	46:CJ:226:ASN:ND2	2.24	0.70
46:DL:252:LYS:O	46:DL:256:ASN:HB2	1.92	0.70
45:DM:271:SER:OG	45:DM:301:MET:SD	2.49	0.70
46:IF:273:LEU:H	46:IF:292:GLN:HE22	1.36	0.70
45:II:210:TYR:CE1	46:IJ:324:LYS:HD3	2.26	0.70
46:JL:396:HIS:HA	46:JL:399:THR:HG22	1.71	0.70
46:KJ:334:GLN:HE21	46:KJ:349:ILE:HG12	1.55	0.70
46:KL:49:VAL:HG11	46:KL:241:ARG:HG2	1.72	0.70
45:LM:140:SER:OG	47:LM:501:GTP:O2B	2.08	0.70
46:MH:209:ASP:OD1	46:MH:213:ARG:NH1	2.24	0.70
45:MI:11:GLN:NE2	46:MJ:245:GLN:O	2.23	0.70
46:MJ:11:GLN:NE2	46:MJ:12:CYS:SG	2.64	0.70
45:PM:210:TYR:CE2	46:PN:324:LYS:HG3	2.26	0.70
46:QH:135:ILE:HG13	46:QH:152:ILE:HD11	1.72	0.70
45:RM:108:TYR:HA	45:RM:112:LYS:HE3	1.71	0.70
46:UL:187:LEU:O	46:UL:191:GLN:NE2	2.23	0.70
45:VG:326:LYS:HZ3	46:VJ:220:PRO:HD2	1.55	0.70
45:WC:114:ILE:HD12	45:WC:117:LEU:HD13	1.73	0.70
46:WD:319:GLY:HA2	46:WD:357:PRO:HD3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2A:101:ASN:ND2	34:5R:60:GLY:O	2.20	0.70
25:3R:454:ARG:HH21	46:FL:218:THR:HB	1.53	0.70
45:BA:79:ARG:HH21	45:BA:92:LEU:HB2	1.55	0.70
46:DF:347:ASN:ND2	45:DG:180:ALA:O	2.25	0.70
46:EL:19:LYS:HG3	46:EL:226:ASN:HB3	1.71	0.70
45:GC:288:VAL:HG11	45:GC:327:ASP:HB3	1.71	0.70
45:IE:89:PRO:HD3	46:JF:281:TYR:HD1	1.55	0.70
46:IF:222:TYR:O	46:IF:226:ASN:ND2	2.20	0.70
46:JJ:248:SER:HA	46:JJ:252:LYS:HD3	1.72	0.70
45:JM:216:ASN:ND2	45:JM:275:ILE:O	2.23	0.70
45:LG:406:HIS:HA	45:LG:409:VAL:HG12	1.73	0.70
45:MG:285:GLN:NE2	45:MG:290:GLU:OE1	2.25	0.70
46:RB:8:GLN:HE21	46:RB:65:LEU:HG	1.56	0.70
45:TI:60:LYS:HZ1	45:UI:282:TYR:HD1	1.39	0.70
46:UL:6:HIS:NE2	46:UL:8:GLN:OE1	2.22	0.70
46:VJ:207:LEU:HB3	46:VJ:225:LEU:HD22	1.73	0.70
4:0D:55:GLY:H	45:EC:221:ARG:HE	1.37	0.70
16:1B:62:THR:HA	45:LC:84:ARG:HH22	1.55	0.70
24:1P:200:LEU:HD21	46:TH:276:ARG:HD3	1.71	0.70
23:2O:453:ARG:HH12	46:UB:56:GLY:HA3	1.55	0.70
31:3I:260:MET:N	46:FJ:125:GLU:OE2	2.21	0.70
34:5R:306:ARG:NH2	34:5R:307:LYS:O	2.24	0.70
46:DD:49:VAL:HG21	46:DD:241:ARG:HG2	1.73	0.70
46:DD:99:ASN:HD21	45:DC:258:ASN:HD21	1.37	0.70
46:EB:331:LEU:HD12	46:EB:334:GLN:HE21	1.56	0.70
45:JM:396:ASP:HA	45:JM:399:TYR:HB3	1.73	0.70
46:JN:344:TRP:HD1	46:JN:345:ILE:HG23	1.55	0.70
46:KL:61:PRO:HG2	46:KL:85:PHE:HD1	1.57	0.70
46:NL:218:THR:HG23	46:NL:219:THR:HG23	1.72	0.70
45:NM:221:ARG:HA	46:NN:324:LYS:HZ1	1.57	0.70
46:PH:273:LEU:H	46:PH:292:GLN:HE22	1.38	0.70
46:QF:139:LEU:HD22	46:QF:170:VAL:HG12	1.72	0.70
46:QN:330:MET:HE2	46:QN:349:ILE:HD13	1.73	0.70
46:RJ:12:CYS:O	46:RJ:16:ILE:HG13	1.91	0.70
45:TI:27:GLU:HB3	45:TI:361:THR:HG21	1.72	0.70
45:VI:326:LYS:HG3	46:VL:208:TYR:CE2	2.26	0.70
45:WK:120:ASP:OD2	45:WK:121:ARG:NH2	2.24	0.70
45:WK:244:PHE:HB2	45:WK:356:ASN:HD21	1.55	0.70
46:WL:288:GLU:HA	46:WL:291:GLN:HG3	1.73	0.70
1:3A:124:LEU:HB3	46:AN:279:GLN:HE22	1.53	0.70
46:BN:87:PRO:HA	46:BN:90:PHE:HD2	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:422:ARG:HH12	45:DK:426:ALA:HB2	1.56	0.70
45:JC:140:SER:OG	47:JC:501:GTP:O2B	2.10	0.70
46:JF:190:HIS:HD2	46:JF:411:ALA:HA	1.56	0.70
46:JL:66:MET:HE3	46:JL:116:VAL:HG21	1.74	0.70
45:ME:282:TYR:OH	45:ME:370:LYS:O	2.08	0.70
46:NB:119:VAL:HA	46:NB:122:LYS:HE2	1.74	0.70
46:NB:229:VAL:O	46:NB:233:MET:HG3	1.91	0.70
45:NE:221:ARG:NH1	46:NF:325:GLU:OE2	2.25	0.70
45:NM:371:VAL:HG12	45:NM:373:ARG:H	1.56	0.70
45:PA:11:GLN:O	45:PA:15:GLN:NE2	2.24	0.70
46:QB:51:TYR:HB3	46:QB:59:TYR:HB3	1.73	0.70
46:SD:173:PRO:HG2	46:SD:380:ARG:HE	1.56	0.70
45:SM:202:VAL:HG12	45:SM:268:MET:HB2	1.74	0.70
46:UN:10:GLY:O	46:UN:14:ASN:ND2	2.24	0.70
45:VE:145:THR:OG1	47:VE:501:GTP:O1B	2.09	0.70
46:VH:135:ILE:HG13	46:VH:152:ILE:HD11	1.72	0.70
46:VN:73:MET:HA	46:VN:76:VAL:HG12	1.74	0.70
20:1K:15:ASN:ND2	45:NC:357:TYR:O	2.25	0.70
34:4R:33:LEU:HB2	46:LF:92:PHE:HE2	1.55	0.70
46:BH:73:MET:HA	46:BH:76:VAL:HG12	1.73	0.70
46:CD:285:THR:N	46:CD:288:GLU:OE2	2.19	0.70
46:EF:166:THR:OG1	46:EF:199:CYS:SG	2.47	0.70
46:EL:350:LYS:NZ	46:EL:352:SER:OG	2.24	0.70
45:FA:203:MET:HE3	45:FA:267:PHE:HB3	1.73	0.70
46:FF:67:ASP:O	46:FF:92:PHE:HA	1.89	0.70
46:GF:49:VAL:HG11	46:GF:241:ARG:HG2	1.74	0.70
45:HK:226:ASN:ND2	45:HK:367:ASP:OD2	2.25	0.70
45:JC:269:LEU:HD22	45:JC:384:ILE:HD11	1.73	0.70
45:MA:402:ARG:NH2	45:MA:415:GLU:OE2	2.23	0.70
45:MK:11:GLN:NE2	46:ML:245:GLN:O	2.23	0.70
47:OG:501:GTP:O1G	46:OH:252:LYS:NZ	2.24	0.70
46:PD:50:TYR:HE2	46:PD:241:ARG:HD3	1.56	0.70
46:PH:226:ASN:HD21	49:PH:501:GDP:HN1	1.37	0.70
45:QG:76:ASP:OD1	45:QG:79:ARG:NH2	2.25	0.70
46:QL:54:ALA:HA	46:RL:283:ALA:HB2	1.74	0.70
46:SD:67:ASP:O	46:SD:92:PHE:HA	1.91	0.70
46:TD:321:MET:HB2	45:TE:221:ARG:NH2	2.07	0.70
46:UH:3:GLU:HG3	46:UH:49:VAL:HA	1.74	0.70
45:VK:261:PRO:HD2	45:VK:262:TYR:H	1.55	0.70
45:WA:55:GLU:HG3	45:WA:57:GLY:H	1.56	0.70
46:WB:77:ARG:HH21	46:WB:83:GLN:HE22	1.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WC:319:TYR:HB3	45:WC:323:VAL:HG11	1.74	0.70
40:6G:93:LYS:NZ	45:UK:113:GLU:OE2	2.24	0.70
45:AC:210:TYR:OH	46:AD:323:THR:OG1	2.06	0.70
46:CB:386:THR:OG1	46:CB:390:ARG:NH1	2.24	0.70
46:CD:324:LYS:HG2	45:CE:222:PRO:HG2	1.73	0.70
46:CH:273:LEU:H	46:CH:292:GLN:HE22	1.40	0.70
45:EK:64:ARG:NH1	45:EK:129:CYS:SG	2.65	0.70
45:EK:76:ASP:OD1	45:EK:79:ARG:NH2	2.25	0.70
46:FN:282:ARG:NH2	46:FN:292:GLN:OE1	2.24	0.70
46:IF:282:ARG:NE	46:IF:288:GLU:OE2	2.25	0.70
46:KD:350:LYS:NZ	46:KD:352:SER:OG	2.23	0.70
46:KN:114:ASP:OD1	46:KN:115:SER:N	2.25	0.70
45:LA:222:PRO:HD2	46:LB:324:LYS:HZ2	1.55	0.70
46:LL:371:SER:O	46:LL:422:TYR:OH	2.10	0.70
45:PI:352:LYS:HZ3	46:PL:179:VAL:H	1.36	0.70
46:PL:171:PRO:O	46:PL:380:ARG:NH2	2.25	0.70
45:QG:258:ASN:HB3	45:QG:352:LYS:HE2	1.73	0.70
46:RN:100:ASN:ND2	46:RN:401:GLU:OE1	2.25	0.70
46:RN:207:LEU:HD13	46:RN:225:LEU:HB3	1.74	0.70
46:SB:200:MET:HE2	46:SB:268:ILE:HD13	1.73	0.70
46:UH:130:LEU:O	46:UH:162:ARG:NH1	2.23	0.70
45:VK:339:ARG:O	45:VK:342:GLN:NE2	2.25	0.70
45:CE:288:VAL:HG21	45:CE:327:ASP:HB3	1.73	0.70
20:1K:212:ARG:HH21	45:GA:370:LYS:HG3	1.56	0.70
12:1T:128:GLU:HA	45:AC:339:ARG:HH22	1.55	0.70
25:2R:289:ASN:ND2	46:DH:219:THR:OG1	2.24	0.70
46:BJ:178:THR:HB	46:BJ:181:GLU:HG3	1.73	0.70
46:CD:11:GLN:NE2	49:CD:501:GDP:O2A	2.24	0.70
46:DF:73:MET:HA	46:DF:76:VAL:HG12	1.74	0.70
45:IC:336:LYS:O	45:IC:339:ARG:NH2	2.24	0.70
45:KG:288:VAL:HA	45:KG:291:ILE:HG12	1.72	0.70
45:MG:298:PRO:HG3	45:MG:308:ARG:HE	1.56	0.70
46:ND:191:GLN:O	46:ND:195:ASN:ND2	2.22	0.70
46:QF:5:VAL:HG12	46:QF:62:ARG:HE	1.55	0.70
45:TE:278:ALA:HB2	45:TE:369:ALA:HB2	1.74	0.70
45:TG:69:ASP:HB3	45:TG:75:ILE:HD11	1.72	0.70
45:TI:69:ASP:HB3	45:TI:75:ILE:HD11	1.74	0.70
46:TL:258:ILE:HB	45:TM:407:TRP:HZ2	1.56	0.70
46:VB:237:THR:HG23	46:VB:241:ARG:HH21	1.56	0.70
19:1J:126:ASN:O	45:HE:84:ARG:NH2	2.24	0.70
19:1J:315:PHE:HB2	45:IK:282:TYR:HE2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AJ:281:TYR:HD1	46:MJ:86:ARG:HG3	1.57	0.70
45:BK:221:ARG:HA	46:BL:324:LYS:HZ1	1.57	0.70
46:CJ:73:MET:HA	46:CJ:76:VAL:HG12	1.74	0.70
45:DI:206:ASN:OD1	47:DI:501:GTP:N2	2.23	0.70
45:FI:88:HIS:NE2	45:GI:284:GLU:OE2	2.23	0.70
46:HD:135:ILE:HG13	46:HD:152:ILE:HD11	1.73	0.70
46:HD:213:ARG:HH22	46:HD:297:LYS:HG3	1.55	0.70
45:IG:164:LYS:O	45:IG:166:LYS:NZ	2.25	0.70
46:JN:290:THR:OG1	46:JN:329:GLN:NE2	2.25	0.70
45:NI:387:VAL:HG12	45:NI:390:ARG:HH22	1.56	0.70
45:PI:108:TYR:O	45:PI:112:LYS:NZ	2.25	0.70
45:RA:48:ALA:HB1	45:RA:243:ARG:HB2	1.72	0.70
46:SJ:67:ASP:O	46:SJ:92:PHE:HA	1.92	0.70
46:TJ:135:ILE:HG13	46:TJ:152:ILE:HD11	1.73	0.70
46:UF:213:ARG:NH2	46:UF:297:LYS:O	2.25	0.70
46:UJ:48:ASN:O	46:UJ:62:ARG:NH1	2.25	0.70
45:VC:292:THR:HG21	45:VC:331:SER:HB3	1.72	0.70
46:WN:49:VAL:HG21	46:WN:241:ARG:HG2	1.71	0.70
4:1D:224:ARG:HH22	34:4R:583:GLN:HA	1.55	0.70
17:1F:159:THR:HG22	46:HL:333:VAL:HG22	1.73	0.70
5:2E:61:LYS:NZ	46:DJ:38:GLY:O	2.18	0.70
20:2K:212:ARG:NH2	45:GM:278:ALA:O	2.25	0.70
10:5Q:71:ILE:N	10:5Q:150:GLU:OE2	2.25	0.70
34:6R:386:PRO:HB3	46:EN:280:GLN:HG3	1.72	0.70
45:AK:31:GLN:OE1	45:AK:32:PRO:HD2	1.91	0.70
46:AN:58:ARG:NH1	46:BN:280:GLN:OE1	2.23	0.70
45:BM:222:PRO:HD2	46:BN:324:LYS:HE3	1.74	0.70
45:CM:207:GLU:HG2	45:CM:304:LYS:HD3	1.73	0.70
46:DN:139:LEU:HD22	46:DN:170:VAL:HG12	1.74	0.70
45:EK:360:PRO:O	45:EK:370:LYS:NZ	2.25	0.70
46:EL:11:GLN:O	46:EL:15:GLN:HG2	1.92	0.70
46:FB:139:LEU:HD22	46:FB:170:VAL:HG12	1.73	0.70
46:FL:190:HIS:CD2	46:FL:411:ALA:HA	2.24	0.70
46:GD:135:ILE:HG13	46:GD:152:ILE:HD11	1.73	0.70
45:KI:407:TRP:CZ3	46:KJ:255:VAL:HA	2.26	0.70
45:KK:88:HIS:NE2	45:LK:284:GLU:OE2	2.24	0.70
45:MA:407:TRP:HZ2	46:MB:258:ILE:HD11	1.56	0.70
46:NL:260:PHE:HB2	46:NL:263:LEU:HD12	1.71	0.70
46:OH:309:ARG:NH2	46:OH:341:PHE:O	2.25	0.70
46:RD:167:PHE:HE2	46:RD:233:MET:HB2	1.57	0.70
45:RE:119:LEU:HD13	45:RE:122:ILE:HD11	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VM:108:TYR:HA	45:VM:112:LYS:HE3	1.74	0.70
45:WA:349:THR:HG1	46:WD:176:SER:HG	1.34	0.70
46:WF:8:GLN:NE2	46:WF:10:GLY:O	2.25	0.70
4:0D:13:GLY:O	45:CC:79:ARG:NH1	2.25	0.69
14:2V:24:ARG:HH22	45:ME:433:GLU:HB2	1.56	0.69
40:6G:181:GLY:O	45:UG:123:ARG:NH1	2.25	0.69
40:6G:274:ASN:O	45:VA:215:ARG:NH2	2.25	0.69
45:AC:175:PRO:HG2	45:AC:304:LYS:HD2	1.74	0.69
46:AJ:128:ASP:OD2	46:AJ:129:CYS:N	2.23	0.69
46:AL:396:HIS:HA	46:AL:399:THR:HG22	1.74	0.69
46:AN:178:THR:HB	46:AN:181:GLU:HG3	1.73	0.69
46:BB:20:PHE:O	46:BB:24:ILE:HD12	1.92	0.69
45:BI:221:ARG:NH1	46:BJ:325:GLU:OE1	2.24	0.69
46:CB:213:ARG:NH2	46:CB:297:LYS:O	2.24	0.69
45:EE:326:LYS:NZ	46:EF:208:TYR:HB3	2.06	0.69
46:EJ:215:LEU:HD22	46:EJ:217:LEU:HD23	1.73	0.69
45:JA:215:ARG:HH22	45:JA:300:ASN:HA	1.55	0.69
45:JC:88:HIS:NE2	45:KC:284:GLU:OE2	2.24	0.69
45:JG:55:GLU:HG3	45:JG:57:GLY:H	1.57	0.69
46:KF:334:GLN:HE22	46:KF:348:ASN:H	1.40	0.69
46:KJ:209:ASP:OD1	46:KJ:213:ARG:NH1	2.25	0.69
45:LC:288:VAL:HA	45:LC:291:ILE:HG12	1.74	0.69
46:MB:262:ARG:HH12	46:MB:421:GLU:HG2	1.57	0.69
46:NF:67:ASP:O	46:NF:92:PHE:HA	1.91	0.69
45:NI:71:GLU:OE1	46:NJ:2:ARG:NH2	2.25	0.69
46:TF:107:THR:OG1	46:TF:108:GLU:OE1	2.09	0.69
46:TJ:207:LEU:HB3	46:TJ:225:LEU:HD22	1.74	0.69
46:UB:135:ILE:HG13	46:UB:152:ILE:HD11	1.74	0.69
45:UC:170:THR:O	45:UC:204:LEU:HB2	1.91	0.69
46:UF:68:LEU:HD13	46:UF:93:GLY:HA3	1.73	0.69
46:VB:45:GLU:HG3	46:VB:46:ARG:HG2	1.73	0.69
45:VC:326:LYS:HZ2	46:VF:219:THR:HA	1.55	0.69
46:VF:222:TYR:O	46:VF:226:ASN:ND2	2.18	0.69
46:WD:68:LEU:HB3	46:WD:96:GLY:HA2	1.74	0.69
46:WF:3:GLU:OE2	46:WF:48:ASN:ND2	2.25	0.69
46:WN:268:ILE:HG13	46:WN:300:MET:HG3	1.73	0.69
8:1H:274:LEU:HB3	46:HF:360:GLY:HA2	1.73	0.69
23:2O:156:ARG:NH2	45:VK:367:ASP:O	2.24	0.69
23:3O:427:LEU:HD23	45:UG:282:TYR:HB3	1.73	0.69
39:6F:68:TRP:HH2	46:JF:228:LEU:HG	1.56	0.69
45:BM:69:ASP:HB3	45:BM:75:ILE:HD11	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CC:399:TYR:O	45:CC:402:ARG:NH1	2.24	0.69
46:GD:372:THR:HA	46:GD:422:TYR:HE2	1.57	0.69
46:GL:73:MET:HA	46:GL:76:VAL:HG12	1.74	0.69
45:HK:69:ASP:OD1	45:HK:71:GLU:N	2.23	0.69
46:JB:222:TYR:O	46:JB:226:ASN:ND2	2.20	0.69
45:JG:348:PRO:HG2	46:JJ:384:GLN:HG3	1.72	0.69
46:JJ:200:MET:HG2	46:JJ:266:PHE:HB2	1.73	0.69
45:LG:387:VAL:HG12	45:LG:390:ARG:HH22	1.57	0.69
45:NG:377:MET:SD	45:NG:379:SER:OG	2.48	0.69
46:OL:83:GLN:O	46:PL:281:TYR:OH	2.09	0.69
45:PA:100:ALA:HB3	46:PB:251:ARG:HH21	1.58	0.69
46:PN:188:SER:O	46:PN:191:GLN:NE2	2.25	0.69
46:QH:273:LEU:H	46:QH:292:GLN:HE22	1.40	0.69
46:TL:96:GLY:O	46:TL:103:LYS:NZ	2.25	0.69
45:VM:221:ARG:NH1	46:VN:325:GLU:OE2	2.25	0.69
36:5A:138:ARG:NH2	46:ND:357:PRO:O	2.25	0.69
10:5Q:30:ARG:HH22	46:AL:430:ALA:HB1	1.57	0.69
41:6H:248:LEU:O	46:FF:276:ARG:NH2	2.26	0.69
45:AE:211:ASP:OD2	45:AE:215:ARG:NH1	2.25	0.69
45:AK:221:ARG:NH1	46:AL:325:GLU:OE2	2.25	0.69
46:BH:318:ARG:HB3	46:BH:357:PRO:HA	1.75	0.69
45:CA:224:TYR:O	45:CA:228:ASN:ND2	2.25	0.69
45:DE:319:TYR:HB3	45:DE:323:VAL:HG11	1.74	0.69
46:HD:68:LEU:HB3	46:HD:96:GLY:HA2	1.74	0.69
46:HH:100:ASN:HD22	46:HH:103:LYS:HB2	1.57	0.69
46:LD:222:TYR:O	46:LD:226:ASN:ND2	2.22	0.69
46:LH:86:ARG:HD2	46:LH:87:PRO:HD2	1.75	0.69
46:NH:178:THR:HG22	46:NH:180:VAL:H	1.57	0.69
45:RG:175:PRO:HG2	45:RG:304:LYS:HD2	1.72	0.69
45:VI:55:GLU:HG3	45:VI:57:GLY:H	1.57	0.69
45:WK:56:THR:HG23	45:WK:58:ALA:H	1.56	0.69
30:3H:205:GLN:HE22	45:AG:82:THR:HB	1.57	0.69
37:5F:87:LEU:HD13	37:5F:92:GLN:HB3	1.74	0.69
34:7R:268:GLU:HG3	46:DB:276:ARG:HH12	1.58	0.69
45:AA:226:ASN:ND2	45:AA:367:ASP:OD2	2.26	0.69
45:AE:76:ASP:OD1	45:AE:79:ARG:NH2	2.25	0.69
45:BC:229:ARG:HD3	45:BC:363:VAL:HG11	1.74	0.69
45:BE:292:THR:HG21	45:BE:331:SER:HB3	1.72	0.69
46:CB:319:GLY:HA2	46:CB:357:PRO:HG3	1.74	0.69
46:CD:73:MET:HA	46:CD:76:VAL:HG12	1.74	0.69
46:DB:86:ARG:HD2	46:EB:281:TYR:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:326:VAL:O	46:DF:330:MET:HG2	1.91	0.69
45:FM:222:PRO:HD2	46:FN:324:LYS:HD3	1.74	0.69
46:IL:22:GLU:HG2	46:IL:81:PHE:HD1	1.57	0.69
45:JC:210:TYR:HH	46:JD:323:THR:HG1	1.39	0.69
46:OD:139:LEU:HD12	46:OD:170:VAL:HG12	1.73	0.69
46:OJ:222:TYR:O	46:OJ:226:ASN:ND2	2.18	0.69
45:PE:256:GLN:OE1	46:PH:397:TRP:NE1	2.26	0.69
45:RM:140:SER:OG	47:RM:501:GTP:O2B	2.10	0.69
46:SF:27:GLU:HA	46:SF:359:LYS:HD2	1.74	0.69
46:SJ:258:ILE:HD11	45:SK:407:TRP:HZ2	1.57	0.69
45:SK:75:ILE:HD11	45:SK:92:LEU:HB3	1.73	0.69
46:TD:242:PHE:HB3	46:TD:356:ILE:HD13	1.75	0.69
46:UB:273:LEU:O	46:UB:292:GLN:NE2	2.25	0.69
46:VN:318:ARG:HG2	46:VN:357:PRO:HA	1.73	0.69
45:WE:188:ILE:HD12	45:WE:425:LEU:HD11	1.74	0.69
20:1K:48:TRP:NE1	46:JF:74:ASP:OD1	2.24	0.69
23:1O:268:ASN:N	45:UA:282:TYR:CD2	2.61	0.69
11:1S:121:CYS:SG	46:AF:426:GLN:NE2	2.65	0.69
9:2N:167:ARG:NH2	46:KB:224:ASP:OD1	2.24	0.69
31:3I:272:ARG:NH2	46:FJ:90:PHE:O	2.24	0.69
34:7R:146:LYS:NZ	46:AD:75:SER:O	2.25	0.69
45:BC:221:ARG:HH11	46:BD:324:LYS:HZ3	1.38	0.69
46:BD:139:LEU:HD22	46:BD:170:VAL:HG12	1.74	0.69
45:BE:326:LYS:HZ2	46:BH:220:PRO:HD2	1.58	0.69
46:BL:318:ARG:HB3	46:BL:357:PRO:HA	1.75	0.69
45:CC:288:VAL:HG11	45:CC:327:ASP:HB3	1.74	0.69
45:CK:89:PRO:HG2	45:DK:280:LYS:HD3	1.75	0.69
45:FI:292:THR:HG21	45:FI:331:SER:HB3	1.74	0.69
46:GD:67:ASP:O	46:GD:92:PHE:HA	1.92	0.69
45:GE:221:ARG:NH1	46:GF:322:SER:OG	2.25	0.69
46:IH:45:GLU:OE1	46:IH:46:ARG:HG2	1.93	0.69
46:JF:67:ASP:O	46:JF:92:PHE:HA	1.92	0.69
46:MD:248:SER:HA	46:MD:252:LYS:HD3	1.75	0.69
46:MH:73:MET:HA	46:MH:76:VAL:HG12	1.74	0.69
46:MN:262:ARG:NH2	46:MN:414:ASN:OD1	2.26	0.69
45:OI:224:TYR:HB2	46:OJ:245:GLN:HE21	1.56	0.69
46:PN:87:PRO:HA	46:PN:90:PHE:HD2	1.56	0.69
46:PN:237:THR:HG23	46:PN:241:ARG:HH21	1.57	0.69
46:QH:218:THR:HG23	46:QH:219:THR:HG23	1.74	0.69
46:QH:371:SER:O	46:QH:422:TYR:OH	2.10	0.69
46:QN:139:LEU:HD22	46:QN:170:VAL:HG12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RE:65:ALA:O	45:RE:91:GLN:NE2	2.25	0.69
45:VG:22:GLU:OE2	45:VG:83:TYR:OH	2.11	0.69
45:WA:70:LEU:O	46:WB:2:ARG:NH2	2.25	0.69
45:WC:108:TYR:O	45:WC:112:LYS:NZ	2.23	0.69
11:OS:278:ARG:HH21	46:WB:118:ASP:HB2	1.56	0.69
15:1X:78:ASN:HD22	46:MF:280:GLN:HG3	1.55	0.69
23:2O:156:ARG:HD2	45:VK:278:ALA:HB3	1.72	0.69
37:5H:71:PRO:HB3	37:5H:104:MET:HB2	1.74	0.69
46:AJ:86:ARG:NE	46:AJ:86:ARG:HA	2.07	0.69
46:CB:376:GLU:HA	46:CB:379:LYS:HZ3	1.56	0.69
45:DK:140:SER:OG	47:DK:501:GTP:O2B	2.10	0.69
45:FI:98:ASP:O	45:FI:105:ARG:NH2	2.25	0.69
46:GJ:178:THR:HB	46:GJ:181:GLU:HG3	1.73	0.69
45:IE:89:PRO:HD3	46:JF:281:TYR:CD1	2.27	0.69
46:KH:31:ASP:OD1	46:KH:35:THR:N	2.25	0.69
46:LD:86:ARG:HH12	46:MD:281:TYR:HB3	1.56	0.69
46:NB:97:ALA:HA	46:NB:103:LYS:HD2	1.75	0.69
46:SF:309:ARG:NH2	46:SF:426:GLN:O	2.26	0.69
46:TB:251:ARG:NE	45:TC:105:ARG:HH22	1.91	0.69
46:UD:273:LEU:H	46:UD:292:GLN:HE22	1.38	0.69
45:UI:11:GLN:NE2	47:UI:501:GTP:O3A	2.26	0.69
46:UN:222:TYR:O	46:UN:226:ASN:ND2	2.24	0.69
45:WA:180:ALA:HB3	45:WA:183:GLU:HB2	1.73	0.69
46:WB:73:MET:HA	46:WB:76:VAL:HG12	1.75	0.69
46:WD:73:MET:HA	46:WD:76:VAL:HG12	1.75	0.69
46:WL:375:GLN:HE21	46:WL:422:TYR:HD2	1.39	0.69
19:1J:345:VAL:HG12	46:IN:227:HIS:ND1	2.06	0.69
36:5A:80:ASN:O	36:5A:84:TYR:HB2	1.93	0.69
36:5B:125:GLN:O	46:NH:276:ARG:NH1	2.26	0.69
37:5F:52:GLY:N	37:5F:55:GLU:OE2	2.25	0.69
45:AM:371:VAL:HG12	45:AM:373:ARG:H	1.58	0.69
45:BC:72:PRO:HD2	46:BD:2:ARG:HH21	1.57	0.69
46:EB:65:LEU:HB2	46:EB:90:PHE:HD1	1.55	0.69
45:EI:9:VAL:HG12	45:EI:68:LEU:HB2	1.73	0.69
45:EK:31:GLN:HE21	45:EK:37:PRO:HB3	1.58	0.69
46:HD:164:MET:HB2	46:HD:197:ASP:H	1.58	0.69
46:HD:274:THR:HB	46:HD:282:ARG:HH21	1.58	0.69
46:IN:73:MET:HA	46:IN:76:VAL:HG12	1.75	0.69
45:JA:212:ILE:HG12	45:JA:215:ARG:HH21	1.58	0.69
46:KJ:173:PRO:HG2	46:KJ:380:ARG:HD3	1.75	0.69
45:MG:205:ASP:OD2	45:MG:206:ASN:N	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:89:PRO:HD3	45:PC:280:LYS:HE3	1.73	0.69
46:PH:86:ARG:HH22	46:QF:282:ARG:HA	1.57	0.69
46:PJ:6:HIS:O	46:PJ:63:ALA:HA	1.91	0.69
46:QH:68:LEU:HD12	46:QH:93:GLY:HA3	1.75	0.69
46:QJ:260:PHE:HB2	46:QJ:263:LEU:HD13	1.75	0.69
46:RB:371:SER:O	46:RB:422:TYR:OH	2.10	0.69
46:TD:67:ASP:O	46:TD:92:PHE:HA	1.92	0.69
45:TI:89:PRO:HG2	45:UI:280:LYS:HZ2	1.56	0.69
45:UG:288:VAL:HG21	45:UG:327:ASP:HB3	1.74	0.69
46:WB:64:ILE:HD11	46:WB:123:GLU:HG3	1.73	0.69
45:WE:352:LYS:NZ	46:WH:178:THR:HA	2.07	0.69
46:WH:209:ASP:HB3	46:WH:213:ARG:NH2	2.08	0.69
45:WM:222:PRO:HD2	46:WN:324:LYS:HE3	1.73	0.69
4:1D:6:ARG:NH1	46:CF:45:GLU:OE1	2.25	0.69
23:1O:268:ASN:HB3	45:UA:282:TYR:HB2	1.74	0.69
13:3U:226:ILE:HG23	45:WK:43:GLY:HA2	1.75	0.69
40:6G:144:LYS:HD3	45:VG:214:ARG:HH22	1.57	0.69
46:AF:285:THR:OG1	46:AF:288:GLU:OE1	2.11	0.69
45:BC:175:PRO:HG2	45:BC:304:LYS:HD2	1.75	0.69
46:BN:403:MET:HB3	46:BN:407:GLU:OE2	1.92	0.69
45:CC:145:THR:OG1	47:CC:501:GTP:O1B	2.10	0.69
46:CH:45:GLU:OE2	46:CH:46:ARG:NH1	2.25	0.69
45:DK:288:VAL:HG11	45:DK:327:ASP:HB3	1.73	0.69
46:EF:164:MET:HB2	46:EF:197:ASP:H	1.57	0.69
45:EI:60:LYS:NZ	45:EI:85:GLN:O	2.25	0.69
45:EI:120:ASP:OD2	45:EI:123:ARG:NH2	2.26	0.69
46:EJ:73:MET:HA	46:EJ:76:VAL:HG12	1.75	0.69
46:EJ:325:GLU:HG2	45:EK:221:ARG:HG2	1.75	0.69
45:FE:407:TRP:HZ2	46:FF:258:ILE:HD11	1.58	0.69
46:FJ:208:TYR:HE2	46:FJ:225:LEU:HD11	1.58	0.69
46:GD:203:ASP:OD2	46:GD:302:ALA:N	2.20	0.69
46:GL:362:LYS:HG3	46:GL:363:MET:SD	2.33	0.69
45:HK:62:VAL:HG11	45:IK:283:HIS:HB3	1.75	0.69
45:MI:9:VAL:HG12	45:MI:68:LEU:HB2	1.75	0.69
45:MM:9:VAL:HG12	45:MM:68:LEU:HB2	1.74	0.69
45:OK:326:LYS:HE2	46:ON:220:PRO:HB2	1.73	0.69
45:PE:27:GLU:HB3	45:PE:361:THR:HG21	1.73	0.69
46:QL:87:PRO:HA	46:QL:90:PHE:HD2	1.57	0.69
46:QL:260:PHE:HB2	46:QL:263:LEU:HD13	1.75	0.69
46:RB:2:ARG:NH1	45:RC:72:PRO:HD2	2.07	0.69
46:RF:420:SER:HA	46:RF:423:GLN:HE21	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RN:87:PRO:HA	46:RN:90:PHE:HD2	1.58	0.69
45:SA:254:GLU:HG2	46:SB:98:GLY:HA2	1.75	0.69
46:SL:289:LEU:HD13	46:SL:365:VAL:HG23	1.73	0.69
45:SM:157:LEU:HD11	45:SM:166:LYS:HD3	1.74	0.69
46:TB:46:ARG:HH22	45:TC:73:THR:HG23	1.56	0.69
46:TF:117:LEU:HD21	46:TF:154:LYS:HE2	1.73	0.69
45:TK:88:HIS:NE2	45:UK:284:GLU:OE2	2.26	0.69
45:UK:352:LYS:HZ1	46:UL:179:VAL:H	1.41	0.69
45:VA:244:PHE:HB2	45:VA:356:ASN:HD21	1.57	0.69
46:VB:207:LEU:HD22	46:VB:228:LEU:HD11	1.74	0.69
45:VG:221:ARG:NH2	46:VH:325:GLU:HG2	2.08	0.69
46:VN:67:ASP:O	46:VN:92:PHE:HA	1.92	0.69
45:WM:105:ARG:HH21	45:WM:109:THR:HG21	1.57	0.69
7:0G:53:ASN:HA	45:JK:364:PRO:HG2	1.73	0.69
37:5F:154:TYR:CE1	46:NH:35:THR:HG23	2.26	0.69
46:AN:377:MET:SD	46:AN:380:ARG:NH2	2.66	0.69
46:CB:129:CYS:HB2	45:CC:96:LYS:HE2	1.75	0.69
46:CN:73:MET:HA	46:CN:76:VAL:HG12	1.75	0.69
45:GG:387:VAL:HG12	45:GG:390:ARG:HH22	1.58	0.69
45:GI:226:ASN:ND2	45:GI:367:ASP:OD2	2.26	0.69
46:IF:267:MET:HE3	46:IF:299:MET:HG2	1.75	0.69
46:JN:376:GLU:HB3	46:JN:380:ARG:NH1	2.08	0.69
46:NF:287:PRO:O	46:NF:291:GLN:NE2	2.25	0.69
45:PC:1:MET:SD	46:PF:94:GLN:NE2	2.66	0.69
46:QD:54:ALA:HA	46:RD:283:ALA:HB2	1.73	0.69
46:RJ:67:ASP:O	46:RJ:92:PHE:HA	1.93	0.69
46:SD:166:THR:OG1	46:SD:199:CYS:SG	2.48	0.69
45:SG:214:ARG:NH2	45:SG:219:ILE:O	2.26	0.69
46:TJ:68:LEU:HB3	46:TJ:96:GLY:HA2	1.75	0.69
46:UD:48:ASN:O	46:UD:62:ARG:NH1	2.25	0.69
45:UG:211:ASP:OD2	45:UG:215:ARG:NH1	2.25	0.69
45:UI:145:THR:OG1	47:UI:501:GTP:O1B	2.10	0.69
46:UN:237:THR:HG23	46:UN:241:ARG:HH21	1.57	0.69
45:WA:116:ASP:OD1	45:WA:117:LEU:N	2.26	0.69
23:1O:269:GLN:N	45:UA:282:TYR:HD2	1.85	0.69
1:3A:101:ASN:ND2	34:6R:60:GLY:O	2.26	0.69
10:5Q:93:VAL:HA	10:5Q:151:THR:HA	1.74	0.69
45:CI:260:VAL:HG23	46:CJ:397:TRP:HE1	1.57	0.69
46:CN:207:LEU:HB3	46:CN:225:LEU:HD22	1.72	0.69
45:DI:188:ILE:HD12	45:DI:425:LEU:HD11	1.75	0.69
46:HF:132:GLY:HA3	46:HF:163:ILE:HG13	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HL:318:ARG:HB3	46:HL:357:PRO:HA	1.73	0.69
45:JA:406:HIS:HA	45:JA:409:VAL:HG12	1.74	0.69
45:JM:47:ASP:OD1	45:JM:50:ASN:ND2	2.26	0.69
46:KF:313:ALA:HB3	46:KF:349:ILE:HG12	1.75	0.69
46:LD:322:SER:OG	46:LD:325:GLU:OE1	2.11	0.69
46:LH:309:ARG:NH1	46:LH:426:GLN:O	2.26	0.69
45:NA:88:HIS:ND1	45:NA:91:GLN:OE1	2.26	0.69
46:QF:166:THR:OG1	46:QF:199:CYS:SG	2.51	0.69
45:SM:157:LEU:HA	45:SM:160:ASP:HB2	1.75	0.69
46:TJ:258:ILE:HB	45:TK:407:TRP:CH2	2.28	0.69
46:UD:236:VAL:HG13	46:UD:237:THR:HG23	1.75	0.69
33:4F:158:GLY:O	46:IN:320:ARG:NH2	2.25	0.68
41:6H:173:SER:HB3	41:6H:176:ASN:OD1	1.93	0.68
46:BL:67:ASP:O	46:BL:92:PHE:HA	1.93	0.68
46:CL:68:LEU:HB3	46:CL:96:GLY:HA2	1.74	0.68
46:DD:208:TYR:HB3	45:DC:326:LYS:NZ	2.09	0.68
45:DK:326:LYS:HE2	46:DL:220:PRO:HD2	1.75	0.68
45:LC:406:HIS:HA	45:LC:409:VAL:HG12	1.75	0.68
46:MB:148:GLY:O	46:MB:152:ILE:HG12	1.92	0.68
45:MM:1:MET:SD	45:MM:2:ARG:NH2	2.66	0.68
45:NA:430:LYS:O	45:NA:433:GLU:HG3	1.93	0.68
45:OM:274:PRO:HD2	45:OM:374:ALA:HA	1.75	0.68
45:PI:244:PHE:HB2	45:PI:356:ASN:HD21	1.57	0.68
46:QF:200:MET:HG3	46:QF:266:PHE:HB2	1.75	0.68
46:RB:166:THR:OG1	46:RB:199:CYS:SG	2.51	0.68
45:RE:60:LYS:NZ	45:RE:85:GLN:O	2.25	0.68
46:RF:290:THR:HG21	46:RF:329:GLN:HG2	1.76	0.68
45:SE:254:GLU:OE2	46:SF:99:ASN:ND2	2.26	0.68
46:WB:256:ASN:HB3	46:WB:350:LYS:HE3	1.76	0.68
45:WC:292:THR:HG21	45:WC:331:SER:HB3	1.75	0.68
21:1L:283:ARG:NH2	46:BH:358:PRO:O	2.24	0.68
14:1V:22:ARG:HH22	45:MI:422:ARG:HH12	1.42	0.68
34:6R:469:LYS:H	46:EN:77:ARG:HH21	1.41	0.68
46:BH:156:ARG:NH1	46:BH:195:ASN:O	2.27	0.68
46:CN:318:ARG:HB3	46:CN:357:PRO:HA	1.75	0.68
46:EJ:8:GLN:HE22	46:EJ:17:GLY:HA3	1.58	0.68
45:EM:261:PRO:HD2	45:EM:262:TYR:N	2.06	0.68
45:FA:336:LYS:O	45:FA:339:ARG:NH2	2.27	0.68
45:GK:326:LYS:HE2	46:GN:220:PRO:HD2	1.73	0.68
45:HG:210:TYR:HE1	45:HG:227:LEU:HD11	1.57	0.68
46:HH:135:ILE:HG13	46:HH:152:ILE:HD11	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IN:222:TYR:O	46:IN:226:ASN:ND2	2.20	0.68
46:JJ:191:GLN:O	46:JJ:195:ASN:ND2	2.23	0.68
45:KG:284:GLU:HG3	45:KG:286:LEU:HG	1.75	0.68
46:MH:295:ASP:OD2	46:MH:297:LYS:NZ	2.25	0.68
46:MN:62:ARG:NH1	46:MN:127:CYS:SG	2.66	0.68
45:OE:288:VAL:HG11	45:OE:327:ASP:HB3	1.74	0.68
45:PG:288:VAL:HG21	45:PG:327:ASP:HB3	1.73	0.68
46:QF:221:THR:HG23	46:QF:224:ASP:H	1.58	0.68
45:RG:2:ARG:NH2	46:RH:69:GLU:OE2	2.25	0.68
45:SG:256:GLN:HE22	46:SH:397:TRP:HE1	1.40	0.68
45:SK:284:GLU:HG2	45:SK:286:LEU:HD22	1.75	0.68
46:UB:86:ARG:NH2	46:UB:89:ASN:OD1	2.26	0.68
46:VB:49:VAL:O	46:VB:62:ARG:NH2	2.26	0.68
46:VN:3:GLU:HA	46:VN:49:VAL:HG13	1.74	0.68
11:OS:278:ARG:NH2	46:WB:119:VAL:HG13	2.08	0.68
14:OV:96:ASN:HD21	46:LN:262:ARG:H	1.41	0.68
34:7R:593:ASP:OD2	34:7R:598:TRP:N	2.25	0.68
46:GH:235:GLY:HA3	46:GH:366:THR:HG21	1.73	0.68
46:GN:226:ASN:HD21	49:GN:502:GDP:HN1	1.41	0.68
46:GN:282:ARG:NH2	46:GN:292:GLN:OE1	2.25	0.68
46:HN:67:ASP:O	46:HN:92:PHE:HA	1.93	0.68
46:IJ:73:MET:HA	46:IJ:76:VAL:HG12	1.74	0.68
45:JE:27:GLU:OE1	45:JE:243:ARG:NH1	2.26	0.68
46:JJ:247:ASN:O	46:JJ:252:LYS:NZ	2.26	0.68
45:KI:317:MET:HG2	45:KI:377:MET:HG2	1.74	0.68
45:ME:259:LEU:HD21	45:ME:316:SER:HB2	1.75	0.68
46:ML:67:ASP:O	46:ML:92:PHE:HA	1.92	0.68
45:OE:55:GLU:HG3	45:OE:57:GLY:H	1.58	0.68
45:PC:221:ARG:NE	46:PD:322:SER:OG	2.18	0.68
45:PM:55:GLU:HG3	45:PM:57:GLY:H	1.59	0.68
45:QM:33:ASP:HA	45:QM:85:GLN:HE21	1.58	0.68
45:SG:33:ASP:HA	45:SG:85:GLN:HE21	1.59	0.68
46:TB:58:ARG:HH22	46:TB:84:LEU:HA	1.58	0.68
46:UF:213:ARG:HE	46:UF:297:LYS:HB3	1.58	0.68
45:UM:336:LYS:O	45:UM:339:ARG:NH2	2.26	0.68
45:VK:288:VAL:HG11	45:VK:327:ASP:HB3	1.75	0.68
46:VL:372:THR:HA	46:VL:422:TYR:HE2	1.57	0.68
45:WE:254:GLU:HG2	46:WH:98:GLY:HA2	1.74	0.68
19:1J:122:ARG:NH2	45:IE:218:ASP:O	2.26	0.68
23:1O:266:GLU:N	45:UA:282:TYR:CD2	2.61	0.68
36:5A:71:SER:O	46:NB:359:LYS:NZ	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AL:318:ARG:HE	46:AL:358:PRO:HG3	1.59	0.68
45:BA:387:VAL:HA	45:BA:390:ARG:HD3	1.74	0.68
46:CL:173:PRO:HD2	46:CL:380:ARG:CZ	2.24	0.68
46:DB:86:ARG:HG2	46:EB:282:ARG:HH12	1.57	0.68
46:DB:246:LEU:HD11	45:DC:224:TYR:HE2	1.58	0.68
45:DE:326:LYS:NZ	46:DF:220:PRO:O	2.22	0.68
45:DK:120:ASP:OD2	45:DK:124:LYS:NZ	2.26	0.68
45:DK:188:ILE:HD12	45:DK:425:LEU:HD11	1.76	0.68
46:EN:178:THR:HB	46:EN:181:GLU:HG3	1.74	0.68
45:FC:7:ILE:HD11	45:FC:122:ILE:HD11	1.75	0.68
45:FC:221:ARG:NH1	46:FD:325:GLU:OE1	2.27	0.68
45:GA:33:ASP:OD1	45:GA:85:GLN:NE2	2.26	0.68
45:GA:101:ASN:HA	45:GA:144:GLY:H	1.57	0.68
46:HB:58:ARG:HH22	46:IB:281:TYR:HA	1.58	0.68
45:HE:101:ASN:HD22	46:HF:256:ASN:HD21	1.41	0.68
46:IL:68:LEU:HB3	46:IL:96:GLY:HA2	1.76	0.68
46:IL:372:THR:HA	46:IL:422:TYR:HE2	1.58	0.68
45:KK:345:ASP:OD2	45:KK:346:TRP:N	2.27	0.68
46:MD:135:ILE:HG13	46:MD:152:ILE:HD11	1.74	0.68
45:MG:211:ASP:OD1	45:MG:214:ARG:NH2	2.26	0.68
46:MH:135:ILE:HG13	46:MH:152:ILE:HD11	1.76	0.68
46:NH:107:THR:OG1	46:NH:108:GLU:OE1	2.11	0.68
45:NI:352:LYS:HE3	46:NL:179:VAL:H	1.57	0.68
45:NM:31:GLN:NE2	45:NM:35:GLN:O	2.26	0.68
46:PB:139:LEU:HD22	46:PB:170:VAL:HG12	1.75	0.68
45:PG:89:PRO:HD2	45:QG:280:LYS:HZ3	1.59	0.68
46:QH:222:TYR:O	46:QH:226:ASN:ND2	2.23	0.68
46:SJ:375:GLN:HB2	46:SJ:379:LYS:HZ2	1.56	0.68
45:SK:48:ALA:HB1	45:SK:243:ARG:HB2	1.75	0.68
45:SM:211:ASP:OD2	45:SM:215:ARG:NH1	2.27	0.68
45:TE:91:GLN:HG3	45:TE:121:ARG:HD2	1.75	0.68
45:UE:128:ASN:OD1	45:VC:285:GLN:NE2	2.26	0.68
45:UK:133:GLN:HB3	45:UK:252:ILE:HD11	1.74	0.68
46:VF:236:VAL:HG13	46:VF:237:THR:HG23	1.75	0.68
46:WB:370:ASN:OD1	46:WB:422:TYR:OH	2.11	0.68
46:WH:49:VAL:HG11	46:WH:241:ARG:HG2	1.76	0.68
32:3D:6:LYS:NZ	46:KD:36:TYR:O	2.25	0.68
45:BE:221:ARG:NH2	46:BF:321:MET:HA	2.09	0.68
45:EM:399:TYR:O	45:EM:402:ARG:NH1	2.26	0.68
45:FA:271:SER:OG	45:FA:301:MET:SD	2.52	0.68
45:GA:88:HIS:HA	45:HA:283:HIS:HE1	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:224:TYR:HE2	46:GB:246:LEU:HD11	1.59	0.68
45:HG:292:THR:HG21	45:HG:331:SER:HB3	1.74	0.68
45:HI:257:THR:HA	46:HL:397:TRP:HZ3	1.59	0.68
45:NE:219:ILE:HG13	45:NE:221:ARG:H	1.59	0.68
45:PA:254:GLU:O	45:PA:258:ASN:ND2	2.27	0.68
45:PK:107:HIS:HA	45:PK:152:LEU:HD11	1.75	0.68
45:QK:287:SER:OG	45:QK:290:GLU:OE2	2.10	0.68
45:RI:392:ASP:HA	45:RI:422:ARG:HH12	1.58	0.68
45:SK:21:TRP:CZ3	45:SK:63:PRO:HB3	2.29	0.68
45:TE:285:GLN:NE2	45:TE:290:GLU:OE2	2.26	0.68
46:TF:156:ARG:NH1	46:TF:159:TYR:O	2.27	0.68
45:TK:115:VAL:HG11	45:TK:156:ARG:HH12	1.59	0.68
14:OV:71:PHE:HB2	46:MN:306:ARG:HH21	1.59	0.68
11:3S:136:ARG:HH22	10:5Q:72:LYS:NZ	1.90	0.68
37:5H:19:LEU:HA	37:5H:22:LYS:HG2	1.75	0.68
34:6R:256:LEU:HD12	34:6R:356:THR:HG23	1.76	0.68
46:CD:2:ARG:NH2	45:CE:71:GLU:OE2	2.27	0.68
46:CF:86:ARG:HD3	46:DF:281:TYR:CD2	2.24	0.68
45:CG:88:HIS:CD2	45:CG:91:GLN:HG3	2.27	0.68
45:CG:89:PRO:HG2	45:DG:280:LYS:HD3	1.75	0.68
45:DE:69:ASP:HB3	45:DE:75:ILE:HD11	1.75	0.68
45:DM:69:ASP:HB3	45:DM:75:ILE:HD11	1.76	0.68
45:FC:226:ASN:ND2	45:FC:367:ASP:OD2	2.27	0.68
46:FH:143:THR:O	46:FH:147:MET:HG2	1.93	0.68
45:GA:226:ASN:ND2	45:GA:367:ASP:OD2	2.26	0.68
46:IL:181:GLU:OE1	46:IL:182:PRO:HD3	1.93	0.68
46:IN:86:ARG:NH1	46:IN:89:ASN:OD1	2.24	0.68
46:NB:130:LEU:O	46:NB:162:ARG:NH1	2.27	0.68
45:OI:121:ARG:HD2	45:OI:124:LYS:HZ3	1.57	0.68
46:ON:222:TYR:O	46:ON:226:ASN:ND2	2.22	0.68
46:PD:73:MET:HA	46:PD:76:VAL:HG12	1.76	0.68
45:PG:244:PHE:HB2	45:PG:356:ASN:HD21	1.59	0.68
45:RM:101:ASN:HA	45:RM:144:GLY:H	1.58	0.68
45:SC:101:ASN:HA	45:SC:144:GLY:H	1.58	0.68
46:SF:99:ASN:HA	46:SF:142:GLY:H	1.57	0.68
45:TC:55:GLU:HG3	45:TC:57:GLY:H	1.59	0.68
45:UM:55:GLU:HG3	45:UM:57:GLY:H	1.58	0.68
45:VA:90:GLU:HG3	45:WA:280:LYS:HZ3	1.59	0.68
3:1C:51:ASN:HA	45:EM:221:ARG:HH22	1.57	0.68
20:1K:43:LYS:HD2	46:KF:212:PHE:CZ	2.26	0.68
20:2K:291:GLN:NE2	46:FL:55:THR:HB	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5G:108:LYS:HG3	37:5G:110:ARG:HH12	1.58	0.68
37:5H:52:GLY:N	37:5H:55:GLU:OE2	2.25	0.68
46:AH:272:PRO:HG3	46:AH:284:LEU:HD11	1.74	0.68
45:AK:80:THR:O	45:AK:84:ARG:NH2	2.27	0.68
46:AL:293:MET:HE3	46:AL:367:PHE:HB2	1.76	0.68
45:CA:3:GLU:O	45:CA:133:GLN:N	2.23	0.68
46:CB:318:ARG:NH1	46:CB:358:PRO:HG3	2.08	0.68
45:DE:208:ALA:O	45:DE:212:ILE:HG12	1.94	0.68
45:GE:2:ARG:HB3	45:GE:133:GLN:HE22	1.59	0.68
46:GL:67:ASP:O	46:GL:92:PHE:HA	1.93	0.68
46:IL:274:THR:OG1	46:IL:279:GLN:OE1	2.11	0.68
46:JB:187:LEU:HD21	46:JB:408:PHE:HE2	1.59	0.68
46:JD:124:ALA:HB1	46:JD:130:LEU:HD11	1.74	0.68
45:KG:11:GLN:NE2	45:KG:15:GLN:OE1	2.27	0.68
46:LF:262:ARG:NH1	46:LF:421:GLU:OE2	2.27	0.68
45:MC:407:TRP:HZ2	46:MD:258:ILE:HD11	1.58	0.68
46:ML:67:ASP:OD2	46:ML:68:LEU:N	2.27	0.68
45:NA:11:GLN:NE2	46:NB:245:GLN:O	2.26	0.68
45:OA:75:ILE:HD13	45:OA:94:SER:HB2	1.74	0.68
45:OI:292:THR:HG21	45:OI:331:SER:HB3	1.74	0.68
46:PD:207:LEU:HD13	46:PD:228:LEU:HD11	1.76	0.68
46:QJ:45:GLU:OE1	46:QJ:46:ARG:NH1	2.25	0.68
46:RJ:376:GLU:OE2	46:RJ:380:ARG:NH1	2.27	0.68
45:RM:244:PHE:HB2	45:RM:356:ASN:HD21	1.59	0.68
45:SC:88:HIS:HB3	45:SC:91:GLN:HG2	1.75	0.68
46:UH:299:MET:HG3	46:UH:301:CYS:H	1.59	0.68
46:VB:260:PHE:HB2	46:VB:263:LEU:HD13	1.74	0.68
45:VM:226:ASN:ND2	45:VM:367:ASP:OD2	2.26	0.68
31:2I:44:PRO:HD2	46:GH:329:GLN:HE22	1.57	0.68
36:5A:28:SER:O	36:5A:36:ARG:NH2	2.26	0.68
46:BB:318:ARG:HB2	46:BB:364:ALA:HB3	1.75	0.68
46:CF:11:GLN:HB3	46:CF:72:THR:HG21	1.74	0.68
45:CK:316:SER:HA	45:CK:352:LYS:HB2	1.76	0.68
46:ED:45:GLU:OE2	46:ED:46:ARG:NH1	2.26	0.68
46:HH:218:THR:HG23	46:HH:219:THR:HG23	1.74	0.68
45:II:288:VAL:HG11	45:II:327:ASP:HB3	1.75	0.68
46:JH:350:LYS:NZ	46:JH:352:SER:OG	2.26	0.68
45:KK:9:VAL:HG12	45:KK:68:LEU:HB2	1.75	0.68
46:LB:7:ILE:HG22	46:LB:64:ILE:HB	1.75	0.68
46:LH:257:LEU:HD21	46:LH:314:SER:HB2	1.74	0.68
45:LI:55:GLU:HG3	45:LI:57:GLY:H	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ON:226:ASN:HD21	49:ON:501:GDP:HN1	1.41	0.68
45:PC:96:LYS:NZ	45:PC:97:GLU:OE2	2.25	0.68
46:QF:73:MET:HA	46:QF:76:VAL:HG12	1.75	0.68
45:QM:326:LYS:HD3	46:QN:212:PHE:HZ	1.59	0.68
45:RK:65:ALA:O	45:RK:91:GLN:NE2	2.27	0.68
46:SD:371:SER:O	46:SD:422:TYR:OH	2.10	0.68
45:SK:31:GLN:HG3	45:SK:32:PRO:HD2	1.74	0.68
46:TB:252:LYS:HE2	45:TC:100:ALA:HA	1.75	0.68
46:TD:178:THR:HB	46:TD:181:GLU:HG3	1.76	0.68
46:UD:178:THR:HG22	46:UD:180:VAL:H	1.59	0.68
45:VI:207:GLU:HA	45:VI:210:TYR:HD2	1.59	0.68
45:VI:254:GLU:OE1	46:VL:99:ASN:ND2	2.27	0.68
46:VN:222:TYR:O	46:VN:226:ASN:ND2	2.24	0.68
45:WC:328:VAL:HG11	45:WC:353:VAL:HG21	1.75	0.68
46:WH:293:MET:HE2	46:WH:367:PHE:HB2	1.74	0.68
18:1I:152:LYS:NZ	45:KE:364:PRO:O	2.26	0.68
21:2L:524:ARG:NH2	46:BN:357:PRO:O	2.26	0.68
10:5Q:107:ASN:O	10:5Q:124:ARG:NH2	2.26	0.68
45:BC:326:LYS:NZ	46:BF:220:PRO:O	2.27	0.68
46:CL:309:ARG:NH1	46:CL:343:GLU:OE1	2.27	0.68
46:DL:327:ASP:HA	46:DL:330:MET:HE1	1.76	0.68
46:ED:12:CYS:HA	46:ED:15:GLN:HE21	1.57	0.68
46:ED:238:CYS:SG	46:ED:318:ARG:NE	2.66	0.68
46:FD:48:ASN:O	46:FD:62:ARG:NH1	2.26	0.68
46:GF:226:ASN:HD21	49:GF:501:GDP:HN1	1.42	0.68
45:GG:325:PRO:HA	45:GG:328:VAL:HG12	1.74	0.68
46:IJ:222:TYR:O	46:IJ:226:ASN:ND2	2.23	0.68
45:IM:239:THR:HG23	45:IM:243:ARG:HH12	1.59	0.68
45:KG:9:VAL:HG12	45:KG:68:LEU:HB2	1.74	0.68
45:MA:282:TYR:OH	45:MA:370:LYS:O	2.12	0.68
45:MK:241:SER:OG	45:MK:250:VAL:O	2.11	0.68
46:NB:213:ARG:NH2	46:NB:297:LYS:O	2.27	0.68
46:ND:218:THR:HG23	46:ND:219:THR:HG23	1.74	0.68
45:NG:27:GLU:OE1	45:NG:243:ARG:NH1	2.27	0.68
45:OA:339:ARG:O	45:OA:342:GLN:NE2	2.27	0.68
46:OJ:276:ARG:NH2	46:OJ:279:GLN:OE1	2.27	0.68
45:PA:244:PHE:HB2	45:PA:356:ASN:HD21	1.57	0.68
46:QL:2:ARG:HH12	45:QM:98:ASP:H	1.42	0.68
45:RG:55:GLU:O	45:SG:285:GLN:NE2	2.26	0.68
46:SH:405:GLU:HA	46:SH:408:PHE:HD2	1.58	0.68
46:TF:6:HIS:NE2	46:TF:8:GLN:OE1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:251:ARG:NH1	45:TG:97:GLU:OE2	2.27	0.68
46:VH:73:MET:HA	46:VH:76:VAL:HG12	1.76	0.68
45:WI:140:SER:OG	47:WI:501:GTP:O2B	2.12	0.68
46:WJ:396:HIS:HA	46:WJ:399:THR:HG22	1.74	0.68
17:1F:168:ARG:H	45:GK:96:LYS:HE3	1.58	0.68
35:5S:192:MET:HG2	46:AH:424:GLN:HG3	1.76	0.68
45:AC:188:ILE:HD12	45:AC:425:LEU:HD11	1.75	0.68
46:BB:139:LEU:HD22	46:BB:170:VAL:HG12	1.76	0.68
46:CF:70:PRO:O	46:CF:74:ASP:HB2	1.94	0.68
46:CF:86:ARG:CD	46:DF:281:TYR:CE1	2.77	0.68
46:EB:139:LEU:HD22	46:EB:170:VAL:HG12	1.76	0.68
46:FJ:73:MET:HA	46:FJ:76:VAL:HG22	1.75	0.68
46:FJ:200:MET:HG3	46:FJ:266:PHE:HB2	1.76	0.68
46:FL:178:THR:HB	46:FL:181:GLU:HG3	1.75	0.68
46:FL:222:TYR:O	46:FL:226:ASN:ND2	2.23	0.68
46:FL:372:THR:HA	46:FL:422:TYR:HE1	1.57	0.68
45:GC:64:ARG:NH1	45:GC:129:CYS:SG	2.67	0.68
45:HI:326:LYS:NZ	46:HL:208:TYR:HB3	2.09	0.68
45:HM:50:ASN:O	45:HM:64:ARG:NH1	2.27	0.68
46:IH:100:ASN:ND2	46:IH:401:GLU:OE1	2.27	0.68
45:JM:112:LYS:HA	45:JM:115:VAL:HG12	1.76	0.68
45:KM:64:ARG:NH1	45:KM:129:CYS:SG	2.67	0.68
46:MH:372:THR:HA	46:MH:422:TYR:HE2	1.59	0.68
46:ML:6:HIS:O	46:ML:63:ALA:HA	1.93	0.68
46:OJ:328:GLU:O	46:OJ:332:ASN:ND2	2.27	0.68
46:PN:11:GLN:NE2	49:PN:502:GDP:O1A	2.27	0.68
46:QL:67:ASP:O	46:QL:92:PHE:HA	1.93	0.68
46:RD:51:TYR:HB3	46:RD:59:TYR:HB3	1.75	0.68
46:SH:83:GLN:O	46:TH:281:TYR:OH	2.11	0.68
45:SK:326:LYS:NZ	45:SK:327:ASP:OD1	2.27	0.68
46:TJ:257:LEU:HD11	46:TJ:314:SER:HB3	1.76	0.68
45:UI:79:ARG:HH21	45:UI:92:LEU:HB2	1.59	0.68
45:WI:222:PRO:HD2	46:WJ:324:LYS:HE3	1.77	0.68
21:2L:643:ARG:NH2	46:CL:357:PRO:O	2.26	0.67
10:2Q:115:LYS:HE3	45:AE:264:ARG:HE	1.57	0.67
36:5D:39:ARG:NH2	45:KK:424:ASP:OD2	2.26	0.67
34:5R:450:ASP:OD2	34:5R:452:THR:OG1	2.11	0.67
44:8R:251:ALA:HB1	46:PF:362:LYS:HE2	1.75	0.67
45:AE:27:GLU:OE2	45:AE:243:ARG:NH2	2.27	0.67
46:BJ:226:ASN:HD21	49:BJ:501:GDP:HN1	1.41	0.67
46:CF:248:SER:HA	46:CF:252:LYS:HD2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:268:ILE:HG22	46:CJ:368:VAL:HG12	1.74	0.67
46:DB:86:ARG:NH1	46:EB:281:TYR:H	1.92	0.67
46:DB:237:THR:HG23	46:DB:241:ARG:HH21	1.59	0.67
46:DF:6:HIS:O	46:DF:63:ALA:HA	1.94	0.67
45:DI:140:SER:OG	47:DI:501:GTP:O2B	2.11	0.67
45:DM:210:TYR:HE1	45:DM:227:LEU:HD11	1.57	0.67
45:EG:247:ALA:HB3	45:EG:355:ILE:HD11	1.76	0.67
45:HK:292:THR:HG21	45:HK:331:SER:HB3	1.75	0.67
46:IB:156:ARG:NH1	46:IB:162:ARG:O	2.26	0.67
45:KC:65:ALA:O	45:KC:91:GLN:NE2	2.27	0.67
45:KG:210:TYR:CE1	46:KH:324:LYS:HB3	2.29	0.67
45:KG:226:ASN:ND2	45:KG:367:ASP:OD2	2.26	0.67
45:MG:282:TYR:OH	45:MG:370:LYS:O	2.11	0.67
45:NA:271:SER:OG	45:NA:301:MET:SD	2.52	0.67
45:NI:250:VAL:HG13	45:NI:254:GLU:HB2	1.76	0.67
45:OG:244:PHE:HB2	45:OG:356:ASN:HD21	1.59	0.67
45:PC:140:SER:OG	47:PD:501:GTP:O2B	2.12	0.67
46:PN:32:PRO:O	46:PN:83:GLN:NE2	2.27	0.67
46:RH:62:ARG:NH1	46:RH:127:CYS:SG	2.67	0.67
45:SA:108:TYR:HA	45:SA:112:LYS:HE3	1.75	0.67
46:TF:191:GLN:NE2	46:TF:195:ASN:OD1	2.27	0.67
45:TK:69:ASP:HB3	45:TK:75:ILE:HD11	1.75	0.67
45:TK:371:VAL:HG12	45:TK:373:ARG:H	1.59	0.67
45:UC:172:TYR:HE1	45:UC:203:MET:HA	1.59	0.67
46:UD:252:LYS:NZ	47:UE:501:GTP:O1G	2.26	0.67
45:UE:292:THR:HG21	45:UE:331:SER:HB3	1.76	0.67
46:UF:372:THR:HA	46:UF:422:TYR:HE2	1.57	0.67
46:VF:273:LEU:H	46:VF:292:GLN:HE22	1.42	0.67
46:VL:304:ASP:OD2	46:VL:307:HIS:ND1	2.25	0.67
46:WF:247:ASN:O	46:WF:252:LYS:NZ	2.27	0.67
45:WK:399:TYR:O	45:WK:402:ARG:NH1	2.27	0.67
45:DC:224:TYR:HD1	45:DC:227:LEU:HD12	1.60	0.67
45:DC:317:MET:HG3	45:DC:377:MET:HB3	1.75	0.67
24:1P:248:LYS:NZ	46:TF:280:GLN:OE1	2.27	0.67
25:1R:458:ILE:HG12	46:FD:276:ARG:HH12	1.57	0.67
14:1V:96:ASN:HD21	46:LJ:262:ARG:HB2	1.57	0.67
25:3R:456:SER:O	46:FL:276:ARG:NH1	2.28	0.67
35:4S:207:SER:OG	35:4S:212:GLU:OE2	2.12	0.67
40:6G:185:TYR:OH	45:UG:123:ARG:NH2	2.27	0.67
34:7R:242:ASN:HB2	45:BA:57:GLY:HA3	1.76	0.67
46:CJ:211:CYS:HA	46:CJ:215:LEU:HD12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:290:THR:HA	46:CJ:293:MET:HG2	1.76	0.67
46:DL:31:ASP:OD1	46:DL:35:THR:N	2.28	0.67
46:EF:282:ARG:HE	46:EF:283:ALA:H	1.40	0.67
45:EM:66:VAL:HB	45:EM:121:ARG:NH1	2.09	0.67
46:HB:271:ALA:HB2	46:HB:293:MET:HE3	1.75	0.67
46:KJ:318:ARG:HH12	46:KJ:358:PRO:HG3	1.59	0.67
46:LF:392:LYS:HG3	46:LF:395:LEU:HD22	1.76	0.67
46:ND:372:THR:HB	46:ND:426:GLN:HE21	1.60	0.67
46:OL:16:ILE:HD13	46:OL:226:ASN:HD22	1.60	0.67
45:OM:120:ASP:OD1	45:OM:123:ARG:NH2	2.25	0.67
46:QH:390:ARG:HD2	46:QH:391:ARG:HG2	1.76	0.67
45:RE:260:VAL:HG23	46:RF:397:TRP:HZ2	1.59	0.67
46:RF:45:GLU:HG2	46:RF:46:ARG:HG2	1.76	0.67
45:SG:339:ARG:O	45:SG:342:GLN:NE2	2.27	0.67
46:TH:372:THR:HA	46:TH:422:TYR:HE2	1.59	0.67
46:TJ:2:ARG:HH12	45:TK:71:GLU:HG2	1.58	0.67
45:VA:229:ARG:O	45:VA:233:GLN:NE2	2.27	0.67
45:VC:209:ILE:HD11	45:VC:302:MET:HG3	1.76	0.67
45:VG:55:GLU:HG3	45:VG:57:GLY:H	1.59	0.67
45:VG:339:ARG:O	45:VG:342:GLN:NE2	2.26	0.67
46:VN:215:LEU:HB3	46:VN:217:LEU:HD23	1.74	0.67
45:WC:133:GLN:HE22	45:WC:242:LEU:HD21	1.58	0.67
45:WC:174:SER:OG	45:WC:207:GLU:OE1	2.11	0.67
45:DC:109:THR:O	45:DC:112:LYS:NZ	2.27	0.67
8:1H:282:GLN:O	46:HF:276:ARG:NH2	2.26	0.67
19:1J:201:LYS:HB3	45:HG:57:GLY:HA3	1.75	0.67
34:5R:242:ASN:HB2	45:BI:57:GLY:HA3	1.74	0.67
46:AD:135:ILE:HG13	46:AD:152:ILE:HD11	1.76	0.67
45:CA:333:ALA:O	45:CA:337:THR:HG23	1.95	0.67
45:DM:211:ASP:OD1	45:DM:214:ARG:NH2	2.27	0.67
45:EE:76:ASP:OD1	45:EE:79:ARG:NH2	2.21	0.67
46:GD:396:HIS:HA	46:GD:399:THR:HG22	1.75	0.67
46:GH:132:GLY:HA3	46:GH:163:ILE:HG22	1.77	0.67
45:KI:396:ASP:OD1	45:KI:422:ARG:NH1	2.26	0.67
45:KK:49:PHE:HE1	45:KK:55:GLU:HB2	1.59	0.67
45:KM:70:LEU:HD13	45:KM:95:GLY:HA3	1.77	0.67
46:NN:91:VAL:HG21	46:NN:116:VAL:HG12	1.76	0.67
46:PH:256:ASN:ND2	46:PH:350:LYS:HE3	2.10	0.67
45:QE:11:GLN:NE2	47:QE:501:GTP:O1B	2.27	0.67
46:RL:54:ALA:HA	46:SL:283:ALA:HB2	1.74	0.67
46:SB:61:PRO:HG2	46:SB:85:PHE:HA	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:200:MET:HG2	46:SF:266:PHE:HB2	1.77	0.67
45:TC:328:VAL:HG11	45:TC:353:VAL:HG21	1.77	0.67
46:TH:178:THR:HB	46:TH:181:GLU:HG3	1.76	0.67
45:VA:221:ARG:NH1	46:VB:322:SER:OG	2.27	0.67
45:VG:76:ASP:OD2	46:VH:46:ARG:NH2	2.28	0.67
46:WH:273:LEU:H	46:WH:292:GLN:HE22	1.40	0.67
19:1J:49:ARG:NH2	46:HD:54:ALA:O	2.28	0.67
20:1K:187:TYR:OH	46:GD:279:GLN:O	2.06	0.67
26:2W:270:GLU:OE1	45:LK:279:GLU:N	2.26	0.67
40:6G:210:ARG:NH2	46:VF:301:CYS:O	2.27	0.67
45:AG:55:GLU:HG3	45:AG:57:GLY:H	1.59	0.67
46:AJ:73:MET:HA	46:AJ:76:VAL:HG12	1.75	0.67
46:AN:48:ASN:O	46:AN:62:ARG:NH1	2.26	0.67
45:BA:33:ASP:O	45:BA:60:LYS:NZ	2.27	0.67
46:BB:309:ARG:NH1	46:BB:343:GLU:OE1	2.27	0.67
46:CF:268:ILE:HG22	46:CF:368:VAL:HG12	1.75	0.67
45:DE:329:ASN:HA	45:DE:332:ILE:HD12	1.76	0.67
45:DI:15:GLN:NE2	47:DI:501:GTP:O6	2.27	0.67
45:EC:225:THR:HB	45:EC:229:ARG:HH12	1.58	0.67
46:EJ:309:ARG:NH2	46:EJ:426:GLN:O	2.25	0.67
45:FC:271:SER:HA	45:FC:302:MET:HG2	1.75	0.67
45:FK:60:LYS:NZ	45:FK:85:GLN:O	2.26	0.67
46:GD:318:ARG:HB3	46:GD:357:PRO:HA	1.77	0.67
45:JC:9:VAL:HG12	45:JC:68:LEU:HB2	1.76	0.67
46:JJ:139:LEU:HD12	46:JJ:170:VAL:HG12	1.77	0.67
45:KM:308:ARG:NH1	45:KM:340:THR:OG1	2.25	0.67
46:LH:7:ILE:HG22	46:LH:64:ILE:HB	1.76	0.67
45:NI:210:TYR:HE1	45:NI:227:LEU:HD11	1.57	0.67
46:OD:247:ASN:OD1	46:OD:252:LYS:NZ	2.28	0.67
46:PH:200:MET:HG2	46:PH:266:PHE:HB2	1.76	0.67
46:PH:371:SER:O	46:PH:422:TYR:OH	2.12	0.67
45:RC:242:LEU:HD11	45:RC:252:ILE:HD11	1.77	0.67
46:RD:5:VAL:HG12	46:RD:62:ARG:HD3	1.74	0.67
46:SJ:194:GLU:OE2	46:SJ:262:ARG:NH2	2.28	0.67
46:UH:198:GLU:HG2	46:UH:266:PHE:HE2	1.57	0.67
45:UK:123:ARG:HH12	45:UK:127:ASP:HB3	1.59	0.67
46:UN:96:GLY:O	46:UN:103:LYS:NZ	2.27	0.67
45:WA:31:GLN:OE1	45:WA:31:GLN:N	2.27	0.67
45:WC:90:GLU:OE1	45:WC:121:ARG:NH2	2.27	0.67
14:1V:228:HIS:CD2	46:VL:87:PRO:HB3	2.30	0.67
34:7R:470:PHE:HD2	34:7R:471:LEU:HG	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:33:THR:O	46:AD:58:ARG:NH1	2.27	0.67
45:AG:260:VAL:HB	46:AJ:397:TRP:CZ2	2.30	0.67
46:AH:73:MET:HA	46:AH:76:VAL:HG12	1.76	0.67
45:AK:406:HIS:HA	45:AK:409:VAL:HG22	1.76	0.67
46:DB:235:GLY:HA3	46:DB:366:THR:HG21	1.75	0.67
46:DB:314:SER:HA	46:DB:350:LYS:HB2	1.76	0.67
45:DE:140:SER:OG	47:DE:501:GTP:O2B	2.13	0.67
45:DG:244:PHE:HB2	45:DG:356:ASN:HD21	1.59	0.67
46:DL:290:THR:HA	46:DL:293:MET:HG2	1.76	0.67
46:EF:54:ALA:HA	46:FF:283:ALA:HB2	1.77	0.67
45:EM:157:LEU:HD22	45:EM:166:LYS:HD3	1.76	0.67
46:GN:316:LEU:HG	46:GN:352:SER:HB2	1.76	0.67
46:HB:139:LEU:HD22	46:HB:170:VAL:HG12	1.76	0.67
46:HB:272:PRO:HD2	46:HB:361:LEU:HD13	1.77	0.67
45:HG:328:VAL:HG11	45:HG:353:VAL:HG21	1.76	0.67
46:HJ:194:GLU:OE2	46:HJ:195:ASN:ND2	2.28	0.67
45:IC:326:LYS:HZ1	46:IF:220:PRO:C	1.98	0.67
46:IJ:8:GLN:HE22	46:IJ:17:GLY:HA3	1.59	0.67
46:IL:222:TYR:O	46:IL:226:ASN:ND2	2.20	0.67
46:JJ:207:LEU:HB3	46:JJ:225:LEU:HD22	1.75	0.67
46:JN:375:GLN:HA	46:JN:378:PHE:HD2	1.58	0.67
45:KK:140:SER:HA	45:KK:171:ILE:HB	1.74	0.67
45:LA:31:GLN:HG3	45:LA:37:PRO:HD3	1.76	0.67
46:OB:309:ARG:NH1	46:OB:343:GLU:OE1	2.28	0.67
45:OC:2:ARG:HH21	45:OC:242:LEU:HA	1.60	0.67
45:OC:224:TYR:O	45:OC:228:ASN:ND2	2.25	0.67
46:RD:405:GLU:HA	46:RD:408:PHE:HD2	1.59	0.67
45:RE:326:LYS:NZ	46:RF:208:TYR:HB3	2.09	0.67
46:RJ:52:ASN:OD1	46:RJ:62:ARG:NH2	2.28	0.67
46:SJ:58:ARG:NH2	46:TJ:280:GLN:O	2.28	0.67
45:SM:9:VAL:HG12	45:SM:68:LEU:HB2	1.76	0.67
46:TD:68:LEU:HB3	46:TD:96:GLY:HA2	1.75	0.67
46:UF:324:LYS:N	45:UG:221:ARG:HH22	1.91	0.67
46:UL:139:LEU:HD13	46:UL:168:SER:HB3	1.77	0.67
45:UM:430:LYS:O	45:UM:433:GLU:HG3	1.94	0.67
46:VD:49:VAL:HG11	46:VD:241:ARG:HG2	1.76	0.67
45:VI:76:ASP:OD2	46:VJ:46:ARG:NH2	2.28	0.67
46:VN:375:GLN:HB2	46:VN:379:LYS:HE2	1.77	0.67
4:2D:99:ARG:HH22	45:EK:364:PRO:HA	1.58	0.67
37:5G:71:PRO:HG3	37:5G:106:VAL:HG13	1.77	0.67
45:BE:135:PHE:HB2	45:BE:166:LYS:HG3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:9:VAL:HG12	45:CG:68:LEU:HB3	1.76	0.67
45:DE:292:THR:HG21	45:DE:331:SER:HB2	1.76	0.67
46:EF:183:TYR:HE2	46:EF:388:MET:HB3	1.59	0.67
46:EF:318:ARG:O	46:EF:363:MET:HA	1.95	0.67
46:EL:316:LEU:HG	46:EL:352:SER:HB2	1.76	0.67
45:FM:226:ASN:ND2	45:FM:367:ASP:OD2	2.25	0.67
45:JC:259:LEU:HB3	45:JC:268:MET:HE1	1.76	0.67
45:JE:181:VAL:H	46:JF:350:LYS:HZ3	1.43	0.67
45:JE:254:GLU:OE2	45:JE:352:LYS:NZ	2.27	0.67
46:JL:313:ALA:HB3	46:JL:349:ILE:HG22	1.76	0.67
46:KJ:95:THR:HG21	46:KJ:108:GLU:HG2	1.77	0.67
45:KM:9:VAL:HG12	45:KM:68:LEU:HB2	1.74	0.67
46:MD:286:VAL:HG21	46:MD:325:GLU:HG3	1.76	0.67
45:ME:326:LYS:NZ	46:MH:220:PRO:O	2.26	0.67
45:MK:64:ARG:NH1	45:MK:129:CYS:SG	2.68	0.67
46:NL:326:VAL:O	46:NL:330:MET:HG2	1.94	0.67
45:OI:121:ARG:HD2	45:OI:124:LYS:NZ	2.10	0.67
45:PM:174:SER:OG	45:PM:206:ASN:OD1	2.11	0.67
46:QB:83:GLN:O	46:RB:281:TYR:OH	2.13	0.67
45:RK:124:LYS:NZ	45:SK:294:SER:OG	2.26	0.67
45:SE:371:VAL:HG12	45:SE:373:ARG:H	1.59	0.67
45:TC:133:GLN:HB3	45:TC:252:ILE:HD11	1.77	0.67
46:TF:268:ILE:HG13	46:TF:300:MET:HG3	1.76	0.67
45:TG:326:LYS:HZ1	46:TH:219:THR:HA	1.58	0.67
45:TM:226:ASN:ND2	45:TM:367:ASP:OD1	2.28	0.67
46:UB:210:ILE:HA	46:UB:297:LYS:NZ	2.09	0.67
46:UH:178:THR:HB	46:UH:181:GLU:HG3	1.77	0.67
45:VG:422:ARG:HH12	45:VG:426:ALA:HB2	1.58	0.67
37:5F:179:TYR:HD1	45:KG:410:GLY:HA2	1.59	0.67
45:AA:292:THR:HG21	45:AA:331:SER:HB3	1.75	0.67
45:AI:288:VAL:HG11	45:AI:327:ASP:HB3	1.74	0.67
45:CA:292:THR:HG21	45:CA:331:SER:HB3	1.77	0.67
46:CB:321:MET:HB2	45:CC:221:ARG:HH21	1.59	0.67
45:CK:70:LEU:HD13	45:CK:95:GLY:HA3	1.77	0.67
45:CM:254:GLU:HG2	46:CN:98:GLY:HA2	1.77	0.67
45:DE:141:VAL:HG11	45:DE:172:TYR:HD1	1.60	0.67
45:EM:276:ILE:HG13	45:EM:280:LYS:HE3	1.76	0.67
46:FN:67:ASP:O	46:FN:92:PHE:HA	1.95	0.67
46:FN:257:LEU:HD11	46:FN:314:SER:HB2	1.76	0.67
46:HF:267:MET:HE3	46:HF:374:ILE:HG22	1.76	0.67
45:IE:292:THR:HG21	45:IE:331:SER:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IJ:226:ASN:HD21	49:IJ:501:GDP:HN1	1.42	0.67
46:JN:276:ARG:HA	46:JN:279:GLN:HE22	1.59	0.67
46:KB:52:ASN:OD1	46:KB:62:ARG:NH2	2.28	0.67
46:KD:322:SER:OG	46:KD:325:GLU:OE1	2.13	0.67
46:KN:31:ASP:OD1	46:KN:35:THR:N	2.27	0.67
45:MA:292:THR:HG21	45:MA:331:SER:HB2	1.76	0.67
45:MG:292:THR:HG21	45:MG:331:SER:HB3	1.75	0.67
45:OA:288:VAL:HG21	45:OA:327:ASP:HB3	1.77	0.67
46:OD:1:MET:N	46:OD:48:ASN:OD1	2.27	0.67
46:OD:285:THR:HG23	46:OD:287:PRO:HD2	1.76	0.67
45:OE:286:LEU:N	45:OE:290:GLU:OE2	2.27	0.67
45:PA:221:ARG:NH1	46:PB:322:SER:OG	2.27	0.67
46:PH:236:VAL:HG13	46:PH:237:THR:HG23	1.75	0.67
46:QF:49:VAL:HG23	46:QF:50:TYR:HD1	1.60	0.67
45:SG:164:LYS:HD3	45:SG:165:SER:H	1.59	0.67
46:UF:48:ASN:O	46:UF:62:ARG:NH1	2.25	0.67
46:UJ:49:VAL:HG11	46:UJ:241:ARG:HG2	1.75	0.67
45:UK:88:HIS:NE2	45:VI:284:GLU:OE2	2.28	0.67
46:VH:77:ARG:NH1	46:VH:82:GLY:O	2.27	0.67
45:VK:140:SER:OG	47:VK:501:GTP:O2B	2.13	0.67
46:WN:73:MET:HA	46:WN:76:VAL:HG12	1.77	0.67
19:1J:77:TYR:HB2	45:IC:371:VAL:HG12	1.77	0.67
39:6F:124:ARG:O	39:6F:128:THR:N	2.28	0.67
40:6G:241:LYS:HE3	46:VD:336:LYS:HD2	1.77	0.67
10:6Q:71:ILE:HG22	10:6Q:73:LEU:H	1.60	0.67
45:AA:108:TYR:O	45:AA:112:LYS:NZ	2.25	0.67
45:AK:387:VAL:HG12	45:AK:390:ARG:HH12	1.60	0.67
46:CB:314:SER:HA	46:CB:350:LYS:HB2	1.77	0.67
46:CH:252:LYS:O	46:CH:256:ASN:ND2	2.28	0.67
45:CI:141:VAL:HG11	45:CI:172:TYR:HD1	1.60	0.67
46:EL:207:LEU:HB3	46:EL:225:LEU:HD22	1.75	0.67
45:FC:9:VAL:HG12	45:FC:68:LEU:HB2	1.75	0.67
46:FF:64:ILE:HD13	46:FF:119:VAL:HG13	1.77	0.67
45:GI:108:TYR:HA	45:GI:112:LYS:HE3	1.76	0.67
45:GK:76:ASP:OD1	45:GK:79:ARG:NH2	2.28	0.67
46:IB:222:TYR:O	46:IB:226:ASN:ND2	2.24	0.67
46:IF:200:MET:HG3	46:IF:266:PHE:HB2	1.76	0.67
45:IG:121:ARG:HH11	45:IG:121:ARG:HA	1.60	0.67
45:IG:176:GLN:HG2	45:IG:177:VAL:HG23	1.77	0.67
46:JN:141:GLY:O	46:JN:145:SER:OG	2.08	0.67
45:KK:11:GLN:HG3	45:KK:74:VAL:HG21	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KK:226:ASN:ND2	45:KK:367:ASP:OD2	2.27	0.67
46:LD:62:ARG:NH1	46:LD:127:CYS:SG	2.68	0.67
45:LI:223:THR:HG22	45:LI:224:TYR:H	1.59	0.67
45:OA:90:GLU:OE2	45:OA:121:ARG:NH1	2.28	0.67
46:OF:198:GLU:HG2	46:OF:266:PHE:HE2	1.59	0.67
45:OK:399:TYR:OH	45:OK:415:GLU:OE2	2.13	0.67
45:SE:64:ARG:NH1	45:SE:129:CYS:SG	2.68	0.67
46:SF:371:SER:O	46:SF:422:TYR:OH	2.13	0.67
46:TB:251:ARG:NH2	45:TC:98:ASP:O	2.28	0.67
46:UB:333:VAL:HA	46:UB:336:LYS:HZ2	1.59	0.67
45:UE:288:VAL:HG11	45:UE:327:ASP:HB3	1.75	0.67
45:UI:33:ASP:HA	45:UI:85:GLN:HE21	1.59	0.67
46:UL:67:ASP:O	46:UL:92:PHE:HA	1.94	0.67
45:UM:229:ARG:O	45:UM:233:GLN:NE2	2.28	0.67
46:VB:273:LEU:N	46:VB:292:GLN:OE1	2.27	0.67
46:VD:222:TYR:O	46:VD:226:ASN:ND2	2.22	0.67
45:VG:292:THR:HG21	45:VG:331:SER:HB3	1.75	0.67
45:VK:292:THR:HG21	45:VK:331:SER:HB3	1.74	0.67
45:WA:1:MET:SD	46:WD:94:GLN:NE2	2.66	0.67
46:WD:7:ILE:HG13	46:WD:135:ILE:HG13	1.77	0.67
20:1K:186:LEU:HB3	46:GD:362:LYS:HZ1	1.59	0.67
45:EE:60:LYS:NZ	45:EE:85:GLN:O	2.28	0.67
45:EK:188:ILE:HD12	45:EK:425:LEU:HD11	1.76	0.67
45:FA:206:ASN:OD1	47:FA:501:GTP:N2	2.27	0.67
45:FK:120:ASP:OD1	45:FK:123:ARG:NH2	2.26	0.67
46:ID:130:LEU:O	46:ID:162:ARG:NH1	2.28	0.67
45:IE:55:GLU:HG3	45:IE:57:GLY:H	1.60	0.67
46:IH:207:LEU:HD22	46:IH:228:LEU:HD11	1.75	0.67
45:JC:141:VAL:HG11	45:JC:172:TYR:HD1	1.60	0.67
46:LJ:362:LYS:HG2	46:LJ:363:MET:HG3	1.76	0.67
45:MK:326:LYS:HZ3	46:MN:208:TYR:HB3	1.60	0.67
46:PF:207:LEU:HB3	46:PF:225:LEU:HD22	1.76	0.67
46:PF:237:THR:HG23	46:PF:241:ARG:HH21	1.59	0.67
45:PK:242:LEU:HD11	45:PK:252:ILE:HG12	1.77	0.67
46:QD:73:MET:HA	46:QD:76:VAL:HG12	1.77	0.67
45:QI:188:ILE:HD12	45:QI:425:LEU:HD11	1.77	0.67
45:RM:55:GLU:HG3	45:RM:57:GLY:H	1.60	0.67
45:SC:134:GLY:HA2	45:SC:164:LYS:HE2	1.76	0.67
45:SG:402:ARG:HH22	45:SG:406:HIS:HB3	1.59	0.67
46:SH:139:LEU:HD22	46:SH:170:VAL:HG12	1.77	0.67
45:TG:226:ASN:ND2	45:TG:367:ASP:OD2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TJ:1:MET:N	46:TJ:3:GLU:OE1	2.28	0.67
45:TM:399:TYR:O	45:TM:402:ARG:NH2	2.28	0.67
45:VA:271:SER:HA	45:VA:302:MET:HG2	1.76	0.67
46:VJ:16:ILE:HD12	46:VJ:229:VAL:HG11	1.77	0.67
45:WM:90:GLU:OE1	45:WM:121:ARG:NH1	2.28	0.67
37:5G:173:LYS:HD3	46:KL:194:GLU:HA	1.76	0.67
46:AF:286:VAL:HG21	46:AF:325:GLU:HB3	1.76	0.67
45:AM:406:HIS:HA	45:AM:409:VAL:HG12	1.77	0.67
46:BJ:135:ILE:HG13	46:BJ:152:ILE:HD11	1.77	0.67
46:BN:90:PHE:HB3	46:BN:92:PHE:HE2	1.60	0.67
46:DD:86:ARG:NH1	46:ED:281:TYR:HB2	2.10	0.67
45:DE:345:ASP:OD1	46:DF:390:ARG:NH2	2.26	0.67
46:EB:223:GLY:O	46:EB:227:HIS:ND1	2.28	0.67
45:EG:89:PRO:HG2	45:FE:280:LYS:HE2	1.76	0.67
45:EM:63:PRO:HG2	45:EM:87:PHE:HD1	1.60	0.67
45:EM:301:MET:HG3	45:EM:303:ALA:H	1.59	0.67
45:GC:101:ASN:HA	45:GC:144:GLY:H	1.60	0.67
45:IE:406:HIS:HA	45:IE:409:VAL:HG12	1.77	0.67
45:JG:296:PHE:HD2	45:JG:341:ILE:HD13	1.60	0.67
45:KI:65:ALA:O	45:KI:91:GLN:NE2	2.27	0.67
45:MC:255:PHE:HA	45:MC:259:LEU:HD23	1.76	0.67
45:MG:226:ASN:ND2	45:MG:367:ASP:OD2	2.28	0.67
46:MH:31:ASP:OD1	46:MH:37:HIS:ND1	2.28	0.67
46:MJ:284:LEU:HD21	46:MJ:363:MET:HB2	1.75	0.67
46:NB:221:THR:HG23	46:NB:223:GLY:H	1.58	0.67
45:PA:55:GLU:HG3	45:PA:57:GLY:H	1.59	0.67
45:PG:387:VAL:HA	45:PG:390:ARG:HD3	1.76	0.67
46:PN:108:GLU:HG3	46:PN:112:LEU:HD23	1.76	0.67
45:QK:108:TYR:O	45:QK:112:LYS:NZ	2.28	0.67
46:RD:257:LEU:O	46:RD:370:ASN:ND2	2.28	0.67
46:RF:12:CYS:HA	46:RF:15:GLN:HE21	1.60	0.67
46:RL:6:HIS:CD2	46:RL:8:GLN:HE22	2.13	0.67
45:SC:387:VAL:HG12	45:SC:390:ARG:HH22	1.59	0.67
46:SL:60:VAL:HG21	46:SL:86:ARG:HG2	1.76	0.67
46:SL:200:MET:HE1	46:SL:266:PHE:HB2	1.76	0.67
46:TB:324:LYS:HG2	45:TC:222:PRO:HG2	1.77	0.67
45:TE:316:SER:HA	45:TE:352:LYS:HB2	1.76	0.67
46:TJ:372:THR:HA	46:TJ:422:TYR:HE2	1.60	0.67
46:TL:2:ARG:HH12	45:TM:71:GLU:HG2	1.60	0.67
46:UD:258:ILE:HD12	46:UD:264:HIS:HB3	1.76	0.67
46:UJ:96:GLY:O	46:UJ:103:LYS:NZ	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WJ:6:HIS:NE2	46:WJ:8:GLN:OE1	2.28	0.67
19:1J:330:LYS:O	46:HN:77:ARG:NH2	2.28	0.66
33:4F:229:ARG:NH1	46:HN:41:ASP:OD2	2.28	0.66
46:AB:309:ARG:H	46:AB:426:GLN:HE22	1.43	0.66
45:EE:209:ILE:HD12	45:EE:227:LEU:HB3	1.77	0.66
45:EE:296:PHE:HE2	45:EE:377:MET:HG3	1.60	0.66
45:HA:221:ARG:NH1	46:HB:322:SER:OG	2.28	0.66
46:IB:83:GLN:HE21	46:IB:84:LEU:HD22	1.59	0.66
47:IG:501:GTP:O1G	46:IH:252:LYS:NZ	2.29	0.66
46:IJ:86:ARG:CZ	45:JG:283:HIS:HB2	2.25	0.66
46:KD:31:ASP:OD1	46:KD:35:THR:N	2.27	0.66
45:KE:407:TRP:CZ3	46:KF:255:VAL:HA	2.30	0.66
46:MB:420:SER:O	46:MB:424:GLN:NE2	2.28	0.66
46:NH:390:ARG:O	46:NH:392:LYS:NZ	2.27	0.66
46:PF:178:THR:HG22	46:PF:180:VAL:H	1.58	0.66
45:PG:260:VAL:HG23	46:PJ:397:TRP:HE1	1.60	0.66
45:RA:326:LYS:HD3	46:RB:212:PHE:HZ	1.59	0.66
45:SE:76:ASP:OD1	45:SE:79:ARG:NH2	2.28	0.66
45:TA:226:ASN:ND2	45:TA:367:ASP:OD2	2.28	0.66
46:TD:293:MET:SD	46:TD:367:PHE:HB2	2.34	0.66
45:TG:288:VAL:HG11	45:TG:327:ASP:HB3	1.76	0.66
46:UD:282:ARG:NH2	46:UD:292:GLN:OE1	2.28	0.66
45:VA:222:PRO:HD2	46:VB:324:LYS:HE3	1.77	0.66
45:VK:101:ASN:HA	45:VK:144:GLY:H	1.60	0.66
1:0A:139:GLN:OE1	46:AB:320:ARG:NH1	2.28	0.66
15:0X:42:LYS:HG2	45:LA:58:ALA:HB3	1.76	0.66
34:6R:182:ASP:OD1	34:6R:183:CYS:N	2.27	0.66
45:AI:259:LEU:HD11	45:AI:316:SER:HB3	1.77	0.66
45:BI:241:SER:OG	45:BI:250:VAL:O	2.12	0.66
46:CD:346:PRO:HD2	45:CE:398:MET:HE3	1.76	0.66
46:DD:324:LYS:HE3	45:DE:210:TYR:CG	2.31	0.66
46:DN:282:ARG:NH2	46:DN:292:GLN:OE1	2.28	0.66
46:EB:42:LEU:HA	46:EB:45:GLU:HG3	1.76	0.66
45:EC:288:VAL:HA	45:EC:291:ILE:HG12	1.76	0.66
46:FL:67:ASP:O	46:FL:92:PHE:HA	1.94	0.66
46:GJ:262:ARG:NH1	46:GJ:421:GLU:OE2	2.27	0.66
45:HK:402:ARG:NH2	45:HK:415:GLU:OE1	2.28	0.66
45:II:210:TYR:CZ	45:II:227:LEU:HD11	2.29	0.66
46:LF:334:GLN:HE22	46:LF:348:ASN:H	1.43	0.66
45:LG:88:HIS:NE2	45:MG:284:GLU:OE2	2.28	0.66
46:MB:49:VAL:HG21	46:MB:241:ARG:HG2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NL:318:ARG:HG2	46:NL:357:PRO:HA	1.77	0.66
46:QB:218:THR:HG23	46:QB:219:THR:HG23	1.76	0.66
46:QF:287:PRO:HA	46:QF:329:GLN:HE22	1.59	0.66
46:QJ:344:TRP:HB3	46:QJ:430:ALA:HB2	1.76	0.66
46:RD:139:LEU:HD22	46:RD:170:VAL:HG12	1.77	0.66
46:RJ:272:PRO:HG3	46:RJ:289:LEU:HD21	1.77	0.66
46:SH:107:THR:OG1	46:SH:108:GLU:OE1	2.13	0.66
45:TC:174:SER:HB2	45:TC:177:VAL:HB	1.76	0.66
46:UH:267:MET:HB3	46:UH:299:MET:HE2	1.77	0.66
45:UK:226:ASN:ND2	45:UK:367:ASP:OD2	2.28	0.66
46:VB:67:ASP:O	46:VB:92:PHE:HA	1.95	0.66
46:VF:285:THR:HB	46:VF:287:PRO:HD2	1.77	0.66
46:WH:48:ASN:O	46:WH:62:ARG:NH1	2.28	0.66
23:2O:257:GLN:HG2	45:UI:58:ALA:HB3	1.75	0.66
27:4C:295:VAL:O	46:KN:320:ARG:NH2	2.27	0.66
39:6F:11:THR:O	45:IE:96:LYS:NZ	2.29	0.66
46:AF:222:TYR:O	46:AF:226:ASN:ND2	2.24	0.66
45:BC:101:ASN:HA	45:BC:144:GLY:H	1.58	0.66
46:BH:209:ASP:OD1	46:BH:213:ARG:NH2	2.28	0.66
45:BK:254:GLU:OE1	46:BN:99:ASN:ND2	2.28	0.66
45:CI:292:THR:HG21	45:CI:331:SER:HB3	1.78	0.66
45:DM:288:VAL:HG11	45:DM:327:ASP:HB3	1.78	0.66
46:FD:31:ASP:OD1	46:FD:35:THR:N	2.24	0.66
45:GG:338:LYS:HZ2	45:GG:340:THR:H	1.41	0.66
46:HL:7:ILE:HB	46:HL:135:ILE:HG12	1.77	0.66
46:IJ:372:THR:HA	46:IJ:422:TYR:HE1	1.60	0.66
45:IK:254:GLU:OE2	45:IK:257:THR:OG1	2.14	0.66
45:KE:407:TRP:HZ3	46:KF:255:VAL:HA	1.60	0.66
46:KN:52:ASN:OD1	46:KN:62:ARG:NH2	2.29	0.66
46:OB:222:TYR:O	46:OB:226:ASN:ND2	2.28	0.66
45:OK:136:LEU:HD13	45:OK:167:LEU:HB2	1.77	0.66
46:PJ:276:ARG:HA	46:PJ:279:GLN:HE22	1.60	0.66
46:RL:207:LEU:HB3	46:RL:225:LEU:HD22	1.76	0.66
45:RM:254:GLU:HG2	46:RN:98:GLY:HA2	1.76	0.66
46:RN:207:LEU:HB3	46:RN:225:LEU:HD22	1.75	0.66
46:SH:61:PRO:HG2	46:SH:85:PHE:HA	1.76	0.66
45:TC:136:LEU:HD22	45:TC:169:PHE:HE2	1.61	0.66
46:TH:67:ASP:O	46:TH:92:PHE:HA	1.96	0.66
45:UK:352:LYS:NZ	46:UL:178:THR:HA	2.10	0.66
46:UL:331:LEU:HD22	45:UM:176:GLN:HE22	1.60	0.66
46:VH:396:HIS:HA	46:VH:399:THR:HG22	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:54:SER:HB3	45:WA:64:ARG:HE	1.61	0.66
46:WB:182:PRO:HB2	46:WB:388:MET:HE1	1.76	0.66
27:3C:218:ARG:HD3	46:KB:320:ARG:HH11	1.60	0.66
37:5F:63:HIS:CD2	46:NF:58:ARG:HD3	2.30	0.66
35:5S:150:LEU:HB3	35:5S:189:VAL:HG11	1.76	0.66
34:7R:389:ASN:H	46:EB:276:ARG:HH22	1.43	0.66
45:AG:326:LYS:HD3	46:AJ:208:TYR:HD1	1.60	0.66
46:CJ:316:LEU:HD13	46:CJ:352:SER:HB2	1.76	0.66
45:CM:33:ASP:HA	45:CM:85:GLN:HE21	1.58	0.66
46:DF:207:LEU:HB3	46:DF:225:LEU:HD22	1.76	0.66
45:DM:174:SER:OG	45:DM:206:ASN:ND2	2.28	0.66
45:EC:229:ARG:HG2	45:EC:363:VAL:HG11	1.76	0.66
45:EE:258:ASN:HD21	46:EF:178:THR:HG23	1.60	0.66
45:HE:56:THR:HG23	45:HE:58:ALA:H	1.61	0.66
46:HN:273:LEU:H	46:HN:292:GLN:HE22	1.43	0.66
46:JJ:372:THR:HA	46:JJ:422:TYR:HE2	1.60	0.66
45:JM:67:PHE:HD2	45:JM:92:LEU:HG	1.61	0.66
45:NK:292:THR:HG21	45:NK:331:SER:HB3	1.77	0.66
46:OH:207:LEU:HB3	46:OH:225:LEU:HD22	1.77	0.66
46:OL:309:ARG:NH2	46:OL:341:PHE:O	2.28	0.66
45:PE:5:ILE:HD11	45:PE:135:PHE:HE2	1.60	0.66
45:QG:211:ASP:HA	45:QG:214:ARG:HE	1.60	0.66
46:RB:99:ASN:HA	46:RB:142:GLY:H	1.60	0.66
46:RF:207:LEU:HB3	46:RF:225:LEU:HD22	1.77	0.66
46:RF:371:SER:O	46:RF:422:TYR:OH	2.13	0.66
46:RJ:289:LEU:HD13	46:RJ:365:VAL:HG23	1.75	0.66
45:RK:7:ILE:HG22	45:RK:66:VAL:HG12	1.77	0.66
46:TB:21:TRP:HA	46:TB:24:ILE:HG22	1.76	0.66
46:TF:67:ASP:O	46:TF:92:PHE:HA	1.96	0.66
45:TM:121:ARG:HH11	45:TM:124:LYS:HE2	1.59	0.66
45:UI:258:ASN:HB3	45:UI:352:LYS:HD2	1.77	0.66
46:UL:238:CYS:SG	46:UL:318:ARG:NH1	2.68	0.66
45:VG:120:ASP:OD1	45:VG:123:ARG:NH2	2.29	0.66
46:WB:334:GLN:HA	46:WB:341:PHE:HE2	1.61	0.66
46:WJ:322:SER:OG	46:WJ:325:GLU:OE1	2.14	0.66
45:CE:211:ASP:HB3	45:CE:215:ARG:HH22	1.59	0.66
4:1D:11:VAL:HG21	45:CG:79:ARG:HD2	1.76	0.66
21:1L:751:ARG:NH2	46:BD:357:PRO:O	2.27	0.66
28:2F:94:HIS:ND1	45:HE:297:GLU:OE2	2.29	0.66
36:5A:79:LEU:HD21	46:NB:245:GLN:HE22	1.60	0.66
45:AK:118:CYS:O	45:AK:122:ILE:HG12	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:100:ASN:ND2	46:CN:401:GLU:OE1	2.28	0.66
45:EG:55:GLU:HG3	45:EG:57:GLY:H	1.61	0.66
45:EK:140:SER:OG	47:EK:501:GTP:O2B	2.14	0.66
46:EL:83:GLN:O	46:FL:281:TYR:OH	2.13	0.66
45:EM:353:VAL:HG12	46:EN:177:ASP:HA	1.78	0.66
46:FD:67:ASP:O	46:FD:92:PHE:HA	1.94	0.66
46:GN:222:TYR:O	46:GN:226:ASN:ND2	2.25	0.66
45:HG:145:THR:OG1	47:HG:501:GTP:O1B	2.13	0.66
45:IA:292:THR:HG21	45:IA:331:SER:HB3	1.76	0.66
45:IK:326:LYS:NZ	46:IN:220:PRO:O	2.27	0.66
46:IN:148:GLY:O	46:IN:152:ILE:HG12	1.96	0.66
46:JB:278:SER:HA	46:JB:281:TYR:HB2	1.77	0.66
46:JD:316:LEU:HD13	46:JD:352:SER:HB2	1.76	0.66
45:JK:116:ASP:OD1	45:JK:117:LEU:N	2.28	0.66
45:KC:206:ASN:OD1	47:KC:501:GTP:N2	2.28	0.66
46:KD:49:VAL:HG11	46:KD:241:ARG:HG2	1.76	0.66
46:KD:309:ARG:NH2	46:KD:426:GLN:O	2.28	0.66
45:KK:157:LEU:HD11	45:KK:166:LYS:HD3	1.76	0.66
45:LG:399:TYR:O	45:LG:402:ARG:NH1	2.28	0.66
46:MH:67:ASP:O	46:MH:92:PHE:HA	1.95	0.66
45:NI:80:THR:O	45:NI:84:ARG:NH2	2.28	0.66
45:OG:70:LEU:HD13	45:OG:95:GLY:HA3	1.76	0.66
45:OK:90:GLU:OE1	45:OK:121:ARG:NH1	2.28	0.66
45:OM:220:GLU:O	45:OM:221:ARG:NH1	2.29	0.66
46:PD:260:PHE:HB2	46:PD:263:LEU:HD13	1.77	0.66
46:PJ:164:MET:HB3	46:PJ:197:ASP:H	1.59	0.66
45:PK:326:LYS:HD3	46:PN:212:PHE:HZ	1.60	0.66
46:RF:215:LEU:HD11	46:RF:273:LEU:HD12	1.78	0.66
46:RL:31:ASP:OD2	46:RL:37:HIS:ND1	2.28	0.66
46:SL:238:CYS:HB3	46:SL:318:ARG:NH1	2.11	0.66
45:TI:141:VAL:HG11	45:TI:172:TYR:HD1	1.61	0.66
46:WB:248:SER:HA	46:WB:252:LYS:HG3	1.76	0.66
45:WK:145:THR:OG1	47:WK:501:GTP:O1B	2.13	0.66
37:5H:71:PRO:HB2	37:5H:103:ARG:HB3	1.78	0.66
34:5R:20:HIS:O	34:5R:25:HIS:NE2	2.26	0.66
34:7R:556:ILE:HD11	34:7R:569:PHE:HA	1.78	0.66
45:AE:285:GLN:HE22	45:ME:56:THR:HA	1.60	0.66
45:AE:326:LYS:HZ3	46:AH:219:THR:HG22	1.60	0.66
45:CA:212:ILE:HD13	45:CA:215:ARG:HH12	1.60	0.66
46:CF:256:ASN:HB3	46:CF:350:LYS:HE3	1.78	0.66
46:CL:236:VAL:HG13	46:CL:237:THR:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:313:MET:HG2	45:DA:381:SER:HA	1.77	0.66
46:DB:5:VAL:HG12	46:DB:62:ARG:HD3	1.78	0.66
46:EH:73:MET:HA	46:EH:76:VAL:HG12	1.78	0.66
45:EM:209:ILE:HD12	45:EM:227:LEU:HB3	1.77	0.66
46:HB:167:PHE:CE2	46:HB:233:MET:HG2	2.31	0.66
45:HC:64:ARG:NH1	45:HC:129:CYS:SG	2.69	0.66
46:HH:178:THR:HB	46:HH:181:GLU:HG3	1.77	0.66
46:HL:121:ARG:NH1	46:HL:158:GLU:OE2	2.29	0.66
46:ID:386:THR:OG1	46:ID:390:ARG:NH1	2.29	0.66
46:KL:322:SER:OG	46:KL:325:GLU:OE1	2.13	0.66
45:MA:288:VAL:HG11	45:MA:327:ASP:HB3	1.77	0.66
45:NG:221:ARG:NH1	46:NH:325:GLU:OE2	2.28	0.66
46:OJ:200:MET:SD	46:OJ:266:PHE:HB2	2.36	0.66
45:PA:2:ARG:HH22	46:PD:69:GLU:HG2	1.61	0.66
46:PL:389:PHE:HZ	46:PL:405:GLU:HG3	1.59	0.66
45:QA:33:ASP:HA	45:QA:85:GLN:HE21	1.61	0.66
46:QB:207:LEU:HD13	46:QB:225:LEU:HB3	1.77	0.66
45:QM:140:SER:OG	47:QM:501:GTP:O2B	2.13	0.66
46:RD:83:GLN:O	46:SD:281:TYR:OH	2.10	0.66
46:RF:166:THR:OG1	46:RF:199:CYS:SG	2.53	0.66
45:SC:170:THR:O	45:SC:204:LEU:HB2	1.96	0.66
46:SL:52:ASN:OD1	46:SL:62:ARG:NH2	2.29	0.66
46:TH:100:ASN:HD22	46:TH:103:LYS:HG2	1.61	0.66
46:UD:67:ASP:O	46:UD:92:PHE:HA	1.95	0.66
46:UF:135:ILE:HG13	46:UF:152:ILE:HD11	1.77	0.66
45:VI:292:THR:HG21	45:VI:331:SER:HB3	1.77	0.66
46:WB:260:PHE:HB2	46:WB:263:LEU:HD13	1.77	0.66
46:WD:173:PRO:HA	46:WD:176:SER:HB3	1.77	0.66
46:WL:1:MET:N	46:WL:3:GLU:OE2	2.27	0.66
36:5D:70:MET:O	46:NN:359:LYS:NZ	2.25	0.66
34:7R:49:ASN:OD1	34:7R:50:ASP:N	2.29	0.66
45:AE:326:LYS:HD3	46:AH:220:PRO:HD2	1.78	0.66
45:AI:55:GLU:HG3	45:AI:57:GLY:H	1.60	0.66
46:BD:83:GLN:O	46:CB:281:TYR:OH	2.12	0.66
45:BK:352:LYS:HZ3	46:BN:178:THR:HA	1.59	0.66
46:CB:290:THR:HA	46:CB:293:MET:HG2	1.77	0.66
45:CC:324:VAL:HG12	45:CC:326:LYS:HG2	1.77	0.66
46:CF:135:ILE:HG13	46:CF:152:ILE:HD11	1.78	0.66
46:CF:330:MET:HE2	46:CF:349:ILE:HG21	1.77	0.66
46:FH:309:ARG:NH2	46:FH:426:GLN:O	2.28	0.66
45:FM:27:GLU:HB2	45:FM:361:THR:HG21	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FM:51:THR:O	45:FM:64:ARG:NH1	2.28	0.66
45:HM:100:ALA:HA	46:HN:252:LYS:HG2	1.78	0.66
45:JG:292:THR:HG21	45:JG:331:SER:HB2	1.78	0.66
46:LF:334:GLN:NE2	46:LF:348:ASN:OD1	2.29	0.66
45:LK:2:ARG:HH21	46:LN:71:GLY:HA2	1.61	0.66
45:MG:260:VAL:HB	46:MJ:397:TRP:CZ2	2.30	0.66
46:NL:68:LEU:HB3	46:NL:96:GLY:HA2	1.78	0.66
45:QC:292:THR:HG21	45:QC:331:SER:HB2	1.78	0.66
45:QG:15:GLN:NE2	47:QG:501:GTP:O6	2.28	0.66
45:QG:244:PHE:HB2	45:QG:356:ASN:HD21	1.59	0.66
46:TB:91:VAL:HG21	46:TB:116:VAL:HB	1.76	0.66
45:TC:399:TYR:O	45:TC:402:ARG:NH2	2.28	0.66
45:UG:260:VAL:HB	46:UH:397:TRP:CZ2	2.31	0.66
46:VH:67:ASP:O	46:VH:92:PHE:HA	1.96	0.66
16:3B:220:GLN:HA	45:KG:221:ARG:HB2	1.77	0.66
37:5F:157:ARG:NH2	46:NH:37:HIS:HA	2.11	0.66
45:AA:328:VAL:HG11	45:AA:353:VAL:HG21	1.78	0.66
45:AM:288:VAL:HG11	45:AM:327:ASP:HB3	1.77	0.66
45:CK:402:ARG:NH2	45:CK:415:GLU:OE2	2.29	0.66
45:EK:80:THR:O	45:EK:84:ARG:NH2	2.27	0.66
45:EM:140:SER:OG	47:EM:501:GTP:O2B	2.14	0.66
46:ID:396:HIS:HA	46:ID:399:THR:HG22	1.77	0.66
45:KC:11:GLN:NE2	46:KD:245:GLN:O	2.29	0.66
46:LD:200:MET:HG2	46:LD:266:PHE:HB2	1.77	0.66
46:ND:178:THR:HG22	46:ND:180:VAL:H	1.60	0.66
46:NH:67:ASP:O	46:NH:92:PHE:HA	1.96	0.66
45:OI:121:ARG:HA	45:OI:124:LYS:HZ3	1.60	0.66
46:PB:314:SER:HA	46:PB:350:LYS:HB2	1.77	0.66
46:PD:11:GLN:HA	46:PD:14:ASN:HD22	1.61	0.66
46:QB:266:PHE:HE1	46:QB:370:ASN:HB2	1.61	0.66
45:RE:206:ASN:OD1	47:RE:501:GTP:N2	2.27	0.66
46:RN:273:LEU:H	46:RN:292:GLN:HE22	1.44	0.66
45:TK:108:TYR:O	45:TK:112:LYS:NZ	2.29	0.66
45:UK:101:ASN:HA	45:UK:144:GLY:H	1.60	0.66
46:UL:322:SER:OG	46:UL:325:GLU:OE2	2.12	0.66
46:VH:94:GLN:HG2	46:VH:95:THR:HG23	1.78	0.66
45:WC:244:PHE:HB2	45:WC:356:ASN:HD21	1.60	0.66
46:WN:48:ASN:O	46:WN:62:ARG:NH1	2.27	0.66
4:0D:6:ARG:HD3	46:CB:41:ASP:HB3	1.77	0.66
6:0F:75:ARG:NH2	46:ED:357:PRO:O	2.29	0.66
21:2L:545:GLU:HG3	45:BM:278:ALA:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:406:ARG:HG3	46:VD:276:ARG:HH21	1.60	0.66
36:5C:167:LYS:NZ	45:NK:278:ALA:O	2.27	0.66
37:5G:113:LEU:HD11	45:NI:84:ARG:HE	1.61	0.66
10:5Q:74:PRO:HD2	10:5Q:169:ASP:HA	1.78	0.66
34:5R:573:LEU:HD21	34:5R:580:LEU:HD13	1.76	0.66
46:AH:309:ARG:NH2	46:AH:426:GLN:O	2.24	0.66
46:AL:32:PRO:HA	46:AL:84:LEU:HD11	1.78	0.66
45:BE:328:VAL:HG11	45:BE:353:VAL:HG21	1.76	0.66
45:BM:71:GLU:OE2	46:BN:2:ARG:NH2	2.29	0.66
46:DB:100:ASN:ND2	46:DB:401:GLU:OE1	2.29	0.66
46:DL:73:MET:HA	46:DL:76:VAL:HG12	1.78	0.66
46:EJ:209:ASP:OD1	46:EJ:213:ARG:NE	2.29	0.66
46:FD:42:LEU:HA	46:FD:45:GLU:HG3	1.78	0.66
46:GN:318:ARG:HE	46:GN:358:PRO:HG3	1.61	0.66
45:HC:402:ARG:NH2	45:HC:415:GLU:OE1	2.29	0.66
45:HK:288:VAL:HG11	45:HK:327:ASP:HB3	1.77	0.66
45:IA:352:LYS:HZ1	46:ID:179:VAL:H	1.42	0.66
45:IC:288:VAL:HG11	45:IC:327:ASP:HB3	1.77	0.66
45:JE:181:VAL:N	46:JF:350:LYS:HZ3	1.94	0.66
45:JK:222:PRO:HD2	46:JL:324:LYS:NZ	2.11	0.66
45:KA:75:ILE:HD11	45:KA:92:LEU:HB3	1.78	0.66
46:KL:73:MET:HA	46:KL:76:VAL:HG12	1.76	0.66
45:LI:9:VAL:HG12	45:LI:68:LEU:HB2	1.76	0.66
45:LK:325:PRO:HA	45:LK:328:VAL:HG12	1.78	0.66
45:MC:224:TYR:HE2	46:MD:246:LEU:HD11	1.61	0.66
46:MH:96:GLY:O	46:MH:103:LYS:NZ	2.29	0.66
45:NA:210:TYR:HE2	46:NB:324:LYS:HB2	1.61	0.66
46:NF:178:THR:HB	46:NF:181:GLU:HG3	1.78	0.66
45:OA:101:ASN:HA	45:OA:144:GLY:H	1.61	0.66
45:OE:1:MET:SD	46:OH:94:GLN:NE2	2.69	0.66
45:OK:169:PHE:HA	45:OK:202:VAL:HG22	1.78	0.66
46:PF:164:MET:HB3	46:PF:197:ASP:H	1.58	0.66
45:PG:89:PRO:HG2	45:QG:280:LYS:HD2	1.77	0.66
46:PN:119:VAL:O	46:PN:122:LYS:HG2	1.95	0.66
45:QK:121:ARG:HH22	45:QK:124:LYS:HG2	1.60	0.66
45:SC:389:SER:O	45:SC:393:HIS:ND1	2.28	0.66
45:TE:352:LYS:HZ3	46:TF:178:THR:HA	1.60	0.66
46:TF:200:MET:HE2	46:TF:268:ILE:HD13	1.77	0.66
45:UI:56:THR:HA	45:VG:285:GLN:HE22	1.60	0.66
46:WN:5:VAL:HG12	46:WN:62:ARG:HD3	1.77	0.66
31:2I:36:ARG:HH22	45:FG:96:LYS:HB2	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:3I:216:ARG:NH2	46:FL:128:ASP:HA	2.11	0.66
46:AF:377:MET:SD	46:AF:380:ARG:NH1	2.64	0.66
45:BA:161:TYR:HB3	45:BA:164:LYS:HE2	1.78	0.66
45:BC:50:ASN:O	45:BC:64:ARG:NH1	2.28	0.66
45:DM:209:ILE:HG13	45:DM:302:MET:HG3	1.78	0.66
45:GE:219:ILE:HG22	45:GE:221:ARG:H	1.61	0.66
46:GH:67:ASP:O	46:GH:92:PHE:HA	1.96	0.66
46:GJ:107:THR:OG1	46:GJ:108:GLU:OE1	2.14	0.66
46:IF:67:ASP:O	46:IF:92:PHE:HA	1.95	0.66
45:II:74:VAL:HG23	45:II:75:ILE:HD12	1.77	0.66
45:IM:71:GLU:OE2	46:IN:2:ARG:NH2	2.29	0.66
45:JG:96:LYS:NZ	46:JH:1:MET:SD	2.67	0.66
46:KJ:350:LYS:NZ	46:KJ:352:SER:OG	2.28	0.66
45:KM:399:TYR:OH	45:KM:415:GLU:OE2	2.14	0.66
46:LB:295:ASP:HB3	46:LB:298:ASN:HB2	1.77	0.66
46:MH:222:TYR:O	46:MH:226:ASN:ND2	2.23	0.66
46:NF:135:ILE:HD12	46:NF:152:ILE:HD11	1.77	0.66
45:OE:210:TYR:HE2	46:OF:324:LYS:HA	1.61	0.66
45:OG:121:ARG:HD2	45:OG:124:LYS:HZ1	1.61	0.66
45:OM:210:TYR:CD1	46:ON:324:LYS:HE3	2.31	0.66
46:PF:183:TYR:HA	46:PF:385:PHE:HE1	1.61	0.66
45:PM:224:TYR:HA	45:PM:227:LEU:HD12	1.77	0.66
45:QI:70:LEU:HD13	45:QI:95:GLY:HA3	1.78	0.66
46:RB:2:ARG:HH12	45:RC:72:PRO:HD2	1.61	0.66
46:RD:121:ARG:NH2	46:RD:158:GLU:OE2	2.28	0.66
45:RK:174:SER:HB3	45:RK:177:VAL:O	1.94	0.66
45:TM:244:PHE:HB2	45:TM:356:ASN:HD21	1.60	0.66
46:TN:273:LEU:H	46:TN:292:GLN:HE22	1.44	0.66
46:UB:74:ASP:HA	46:UB:77:ARG:HG2	1.77	0.66
46:VN:8:GLN:NE2	46:VN:136:THR:OG1	2.29	0.66
46:WB:47:ILE:HD12	46:WB:59:TYR:HE1	1.59	0.66
45:WK:53:PHE:O	45:WK:64:ARG:NH1	2.28	0.66
45:WM:180:ALA:HA	46:WN:350:LYS:HZ2	1.60	0.66
46:WN:67:ASP:O	46:WN:92:PHE:HA	1.95	0.66
46:WN:330:MET:HB3	46:WN:349:ILE:HD12	1.77	0.66
2:OB:24:PRO:HD3	46:JH:276:ARG:HH12	1.60	0.65
45:AE:239:THR:HG23	45:AE:243:ARG:HH12	1.61	0.65
45:BC:33:ASP:HA	45:BC:85:GLN:HE21	1.61	0.65
45:BI:36:MET:HE3	45:BI:37:PRO:HD2	1.78	0.65
46:DB:276:ARG:NH1	46:DB:279:GLN:OE1	2.29	0.65
46:DD:113:ILE:HG21	46:DD:150:LEU:HD22	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:293:MET:HE2	46:EF:367:PHE:HD1	1.61	0.65
46:EH:135:ILE:HG13	46:EH:152:ILE:HD11	1.78	0.65
45:EM:317:MET:O	45:EM:353:VAL:HA	1.95	0.65
45:EM:352:LYS:HE2	46:EN:178:THR:HA	1.78	0.65
46:EN:213:ARG:NH2	46:EN:297:LYS:O	2.21	0.65
46:FD:161:ASP:O	46:FD:251:ARG:NH2	2.27	0.65
45:GC:76:ASP:OD1	45:GC:79:ARG:NH2	2.29	0.65
45:GE:221:ARG:HH22	46:GF:321:MET:HB3	1.61	0.65
45:HK:71:GLU:OE1	46:HL:247:ASN:ND2	2.28	0.65
46:HN:226:ASN:HD21	49:HN:501:GDP:HN1	1.42	0.65
45:IK:242:LEU:HD21	45:IK:251:ASP:HA	1.78	0.65
46:JB:215:LEU:HD21	46:JB:273:LEU:HD12	1.77	0.65
45:KE:251:ASP:HB3	45:KE:254:GLU:HG2	1.78	0.65
46:KF:238:CYS:SG	46:KF:318:ARG:NH1	2.69	0.65
45:LA:275:ILE:HD12	45:LA:368:LEU:HD11	1.77	0.65
46:LB:334:GLN:NE2	46:LB:348:ASN:OD1	2.29	0.65
46:NB:313:ALA:HB1	46:NB:367:PHE:HE1	1.61	0.65
45:OA:212:ILE:HD11	45:OA:300:ASN:HA	1.78	0.65
46:PD:221:THR:HG23	46:PD:224:ASP:H	1.61	0.65
46:PH:49:VAL:HG21	46:PH:241:ARG:HG2	1.77	0.65
46:RJ:194:GLU:OE2	46:RJ:414:ASN:ND2	2.24	0.65
46:TL:258:ILE:HB	45:TM:407:TRP:CZ2	2.31	0.65
45:WE:292:THR:HG21	45:WE:331:SER:HB3	1.76	0.65
45:WK:51:THR:HG21	45:WK:243:ARG:HB3	1.77	0.65
45:WK:176:GLN:HG2	45:WK:177:VAL:HG23	1.78	0.65
46:WN:282:ARG:HH22	46:WN:289:LEU:HD22	1.61	0.65
17:1F:149:PRO:HB2	46:HL:213:ARG:HH21	1.60	0.65
31:3I:287:ARG:HH22	45:FG:59:GLY:N	1.91	0.65
37:5E:201:THR:HA	37:5E:204:LYS:HE2	1.78	0.65
37:5H:61:LYS:NZ	46:ON:276:ARG:HH21	1.95	0.65
34:5R:455:VAL:HB	34:5R:471:LEU:HB2	1.77	0.65
40:6G:95:VAL:O	40:6G:99:HIS:ND1	2.30	0.65
46:BD:32:PRO:O	46:BD:83:GLN:NE2	2.29	0.65
46:CJ:256:ASN:HD22	46:CJ:350:LYS:HD2	1.60	0.65
46:DJ:257:LEU:HD11	46:DJ:314:SER:HB2	1.77	0.65
46:DN:49:VAL:O	46:DN:62:ARG:NH2	2.29	0.65
46:EB:54:ALA:HA	46:FB:283:ALA:HB2	1.78	0.65
45:EM:311:LYS:HE2	45:EM:342:GLN:HG3	1.77	0.65
46:JJ:309:ARG:NH2	46:JJ:426:GLN:O	2.29	0.65
45:KE:292:THR:HG21	45:KE:331:SER:HB2	1.77	0.65
45:LG:181:VAL:HG13	45:LG:182:VAL:HG13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MM:259:LEU:HD21	45:MM:316:SER:HB2	1.78	0.65
45:NA:265:ILE:HG22	45:NA:380:ASN:HD21	1.61	0.65
45:NI:292:THR:HG21	45:NI:331:SER:HB3	1.78	0.65
46:OB:178:THR:HB	46:OB:181:GLU:HG3	1.78	0.65
45:OE:203:MET:HG3	45:OE:384:ILE:HD11	1.78	0.65
45:PA:211:ASP:HA	45:PA:214:ARG:HG2	1.78	0.65
46:PN:194:GLU:HA	46:PN:262:ARG:HH12	1.61	0.65
45:QC:101:ASN:HA	45:QC:144:GLY:H	1.61	0.65
45:RG:225:THR:O	45:RG:229:ARG:HG3	1.96	0.65
46:SB:136:THR:O	46:SB:137:HIS:ND1	2.30	0.65
46:UJ:320:ARG:HH22	45:UK:221:ARG:HH21	1.44	0.65
46:UJ:326:VAL:O	46:UJ:330:MET:HG2	1.96	0.65
46:UL:46:ARG:NH2	45:UM:76:ASP:OD2	2.28	0.65
45:UM:60:LYS:NZ	45:UM:61:HIS:O	2.29	0.65
46:VH:48:ASN:O	46:VH:62:ARG:NH1	2.28	0.65
45:VK:254:GLU:O	45:VK:258:ASN:ND2	2.29	0.65
16:1B:238:TYR:O	45:JC:84:ARG:NH1	2.26	0.65
23:3O:456:LEU:HD11	46:UF:276:ARG:HH21	1.61	0.65
25:3R:315:GLN:HG3	46:CL:276:ARG:HG2	1.77	0.65
30:4H:205:GLN:HE22	45:AK:82:THR:H	1.42	0.65
34:7R:12:LEU:C	46:LB:227:HIS:HE1	1.99	0.65
45:AC:292:THR:HG21	45:AC:331:SER:HB3	1.78	0.65
46:BN:116:VAL:O	46:BN:120:VAL:HG23	1.97	0.65
45:CG:180:ALA:HB3	45:CG:183:GLU:HG3	1.78	0.65
46:DF:67:ASP:O	46:DF:92:PHE:HA	1.97	0.65
46:DH:207:LEU:HB3	46:DH:225:LEU:HD22	1.77	0.65
46:DJ:83:GLN:O	46:EJ:281:TYR:OH	2.14	0.65
46:EB:289:LEU:HD13	46:EB:365:VAL:HG23	1.76	0.65
45:GE:101:ASN:HA	45:GE:144:GLY:H	1.61	0.65
46:GJ:263:LEU:HD22	46:GJ:422:TYR:HD1	1.62	0.65
45:HG:352:LYS:HZ2	45:HG:353:VAL:H	1.44	0.65
45:JI:97:GLU:OE1	45:JI:105:ARG:NH2	2.26	0.65
45:JI:241:SER:OG	45:JI:249:ASN:OD1	2.15	0.65
45:JM:63:PRO:HG2	45:JM:87:PHE:HA	1.77	0.65
45:KM:15:GLN:NE2	47:KM:501:GTP:O6	2.28	0.65
45:KM:395:PHE:HB3	45:KM:422:ARG:HH21	1.61	0.65
45:LC:325:PRO:HA	45:LC:328:VAL:HG12	1.79	0.65
45:MC:406:HIS:HA	45:MC:409:VAL:HG12	1.78	0.65
46:MF:257:LEU:HD21	46:MF:314:SER:HB2	1.77	0.65
45:MI:174:SER:HB3	45:MI:177:VAL:O	1.96	0.65
45:OC:207:GLU:HA	45:OC:210:TYR:CD1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:10:GLY:O	46:OJ:14:ASN:ND2	2.30	0.65
45:OM:399:TYR:O	45:OM:402:ARG:NH1	2.30	0.65
46:ON:328:GLU:O	46:ON:332:ASN:ND2	2.29	0.65
45:PC:101:ASN:HA	45:PC:144:GLY:H	1.59	0.65
46:QJ:318:ARG:HB2	46:QJ:364:ALA:HB3	1.78	0.65
45:RG:119:LEU:HD13	45:RG:122:ILE:HD11	1.78	0.65
45:SC:288:VAL:HG11	45:SC:327:ASP:HB3	1.77	0.65
45:SI:248:LEU:HB2	45:SI:355:ILE:HG12	1.79	0.65
45:SM:33:ASP:HA	45:SM:85:GLN:HE21	1.61	0.65
46:TH:68:LEU:HB3	46:TH:96:GLY:HA2	1.78	0.65
45:TM:132:LEU:HD22	45:TM:164:LYS:HD2	1.78	0.65
46:UL:372:THR:HA	46:UL:422:TYR:HE2	1.60	0.65
46:VF:3:GLU:OE2	46:VF:62:ARG:HD2	1.97	0.65
46:VF:49:VAL:HG21	46:VF:241:ARG:HG2	1.77	0.65
45:VK:210:TYR:OH	46:VL:323:THR:OG1	2.10	0.65
45:WC:129:CYS:SG	45:WC:130:THR:N	2.69	0.65
46:WL:309:ARG:NH2	46:WL:426:GLN:O	2.27	0.65
45:WM:51:THR:O	45:WM:64:ARG:NH2	2.29	0.65
21:2L:653:TRP:HH2	45:CM:219:ILE:HG23	1.62	0.65
45:AE:90:GLU:HG3	45:AE:121:ARG:HH22	1.62	0.65
46:AN:67:ASP:OD1	46:AN:68:LEU:N	2.30	0.65
45:CA:215:ARG:NH2	45:CA:300:ASN:OD1	2.30	0.65
46:CB:67:ASP:O	46:CB:92:PHE:HA	1.96	0.65
46:CF:290:THR:HA	46:CF:293:MET:HG2	1.79	0.65
46:CH:11:GLN:HA	46:CH:72:THR:HG21	1.78	0.65
45:DG:175:PRO:HG2	45:DG:304:LYS:HD2	1.79	0.65
46:EH:271:ALA:HB3	46:EH:365:VAL:HB	1.78	0.65
46:HB:73:MET:HA	46:HB:76:VAL:HG12	1.77	0.65
45:HE:76:ASP:OD2	46:HF:46:ARG:NH2	2.30	0.65
46:IB:139:LEU:HD22	46:IB:170:VAL:HG12	1.78	0.65
45:IK:239:THR:HG22	45:IK:243:ARG:HE	1.61	0.65
45:IM:187:SER:O	45:IM:191:THR:HG23	1.96	0.65
45:JE:221:ARG:HA	46:JF:324:LYS:HZ1	1.61	0.65
45:JM:195:LEU:HD12	45:JM:196:GLU:HG2	1.77	0.65
46:KD:22:GLU:HG2	46:KD:81:PHE:HD1	1.62	0.65
46:KF:16:ILE:HD12	46:KF:229:VAL:HG11	1.79	0.65
46:KH:51:TYR:HB3	46:KH:59:TYR:HB3	1.79	0.65
46:KN:3:GLU:HG3	46:KN:62:ARG:NH1	2.12	0.65
45:LI:284:GLU:HG3	45:LI:286:LEU:HD22	1.78	0.65
45:MC:116:ASP:OD2	45:MC:117:LEU:N	2.29	0.65
45:MK:27:GLU:OE1	45:MK:243:ARG:NH1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NB:314:SER:HA	46:NB:350:LYS:HB2	1.77	0.65
46:ND:19:LYS:HE2	46:ND:22:GLU:OE2	1.97	0.65
46:NL:317:PHE:HE2	46:NL:326:VAL:HG13	1.62	0.65
45:NM:91:GLN:HG3	45:NM:121:ARG:HE	1.61	0.65
46:OJ:262:ARG:NH1	46:OJ:421:GLU:OE1	2.29	0.65
46:PD:100:ASN:ND2	46:PD:401:GLU:OE1	2.29	0.65
45:PE:9:VAL:HG12	45:PE:68:LEU:HB3	1.76	0.65
45:RA:224:TYR:HD1	45:RA:227:LEU:HD12	1.62	0.65
45:RC:360:PRO:O	45:RC:370:LYS:NZ	2.26	0.65
45:UG:101:ASN:HA	45:UG:144:GLY:H	1.61	0.65
46:VD:128:ASP:OD1	46:VD:129:CYS:N	2.30	0.65
45:VE:70:LEU:HD13	45:VE:95:GLY:HA3	1.78	0.65
45:VG:70:LEU:HD13	45:VG:95:GLY:HA3	1.78	0.65
45:VI:175:PRO:HA	45:VI:390:ARG:CZ	2.26	0.65
45:CE:292:THR:HG21	45:CE:331:SER:HB3	1.77	0.65
31:2I:118:LYS:NZ	45:GC:339:ARG:O	2.26	0.65
1:3A:35:TYR:HD2	46:MN:320:ARG:HH12	1.42	0.65
31:3I:217:ASN:OD1	45:FK:96:LYS:NZ	2.29	0.65
46:AN:306:ARG:HB2	46:AN:340:TYR:HE1	1.61	0.65
45:BE:276:ILE:HD12	45:BE:281:ALA:HA	1.78	0.65
46:DH:268:ILE:HG22	46:DH:368:VAL:HG12	1.77	0.65
45:EG:338:LYS:NZ	45:EG:340:THR:H	1.94	0.65
45:GG:76:ASP:OD2	46:GH:46:ARG:NH2	2.30	0.65
45:HC:238:LEU:HA	45:HC:318:MET:HE1	1.78	0.65
45:HK:88:HIS:NE2	45:HK:90:GLU:HG2	2.12	0.65
46:HL:109:GLY:HA2	46:HL:147:MET:HE2	1.78	0.65
45:IC:27:GLU:OE1	45:IC:243:ARG:NH1	2.28	0.65
45:IE:271:SER:OG	45:IE:301:MET:SD	2.54	0.65
45:JG:164:LYS:O	45:JG:166:LYS:NZ	2.30	0.65
45:JK:140:SER:OG	47:JK:501:GTP:O2B	2.15	0.65
46:KF:31:ASP:OD1	46:KF:35:THR:N	2.29	0.65
45:LK:288:VAL:HA	45:LK:291:ILE:HG12	1.76	0.65
46:MF:262:ARG:NH1	46:MF:421:GLU:OE1	2.28	0.65
45:OE:56:THR:HG23	45:OE:58:ALA:H	1.62	0.65
46:ON:52:ASN:OD1	46:ON:62:ARG:NH2	2.30	0.65
45:PA:320:ARG:HG3	45:PA:356:ASN:HB3	1.79	0.65
46:PH:83:GLN:O	46:QF:281:TYR:OH	2.14	0.65
46:QB:257:LEU:HD11	46:QB:314:SER:HB2	1.79	0.65
45:QI:339:ARG:O	45:QI:342:GLN:NE2	2.28	0.65
46:RB:100:ASN:ND2	46:RB:401:GLU:OE1	2.29	0.65
45:SE:101:ASN:HA	45:SE:144:GLY:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SM:406:HIS:HA	45:SM:409:VAL:HG12	1.79	0.65
45:TC:258:ASN:HD21	46:TD:178:THR:HG23	1.60	0.65
45:TC:392:ASP:OD2	45:TC:422:ARG:NH1	2.30	0.65
46:TD:377:MET:SD	46:TD:380:ARG:NH1	2.70	0.65
45:TE:271:SER:HA	45:TE:302:MET:HG2	1.79	0.65
46:TH:235:GLY:HA3	46:TH:366:THR:HG21	1.78	0.65
46:TJ:55:THR:HG23	46:UJ:283:ALA:HA	1.79	0.65
46:TL:100:ASN:ND2	46:TL:401:GLU:OE2	2.24	0.65
45:UC:55:GLU:HG3	45:UC:57:GLY:H	1.61	0.65
46:VB:4:ILE:HD11	46:VB:131:GLN:HB2	1.77	0.65
45:VE:320:ARG:HH11	45:VE:360:PRO:HA	1.62	0.65
45:VK:109:THR:O	45:VK:112:LYS:NZ	2.30	0.65
46:VL:200:MET:HG3	46:VL:266:PHE:HB2	1.78	0.65
11:1S:146:LYS:HA	45:WC:123:ARG:NH2	2.12	0.65
31:2I:77:GLY:HA2	45:FE:123:ARG:HD2	1.77	0.65
46:BD:372:THR:HA	46:BD:422:TYR:HE2	1.61	0.65
46:CF:397:TRP:HE1	45:CE:260:VAL:HG23	1.62	0.65
46:CL:322:SER:OG	45:CM:221:ARG:NH1	2.30	0.65
46:DJ:45:GLU:HG2	46:DJ:46:ARG:HG2	1.78	0.65
45:DK:90:GLU:OE2	45:EK:280:LYS:NZ	2.26	0.65
45:EE:125:LEU:O	45:EE:128:ASN:ND2	2.30	0.65
46:EL:8:GLN:NE2	46:EL:14:ASN:OD1	2.30	0.65
46:EL:31:ASP:OD1	46:EL:37:HIS:ND1	2.29	0.65
45:FC:141:VAL:HG11	45:FC:172:TYR:HD1	1.62	0.65
45:FG:71:GLU:OE2	46:FH:2:ARG:NH2	2.30	0.65
45:FG:210:TYR:HD1	46:FH:324:LYS:HZ2	1.45	0.65
45:FK:292:THR:HG21	45:FK:331:SER:HB3	1.78	0.65
46:FN:190:HIS:CD2	46:FN:411:ALA:HA	2.32	0.65
46:GL:135:ILE:HG13	46:GL:152:ILE:HD11	1.79	0.65
45:HA:276:ILE:HD11	45:HA:280:LYS:HG3	1.78	0.65
45:JE:244:PHE:HB2	45:JE:356:ASN:HD21	1.62	0.65
45:KG:15:GLN:NE2	47:KG:501:GTP:O6	2.29	0.65
46:LN:237:THR:HG23	46:LN:241:ARG:HH21	1.62	0.65
45:NG:54:SER:HB3	45:NG:64:ARG:HE	1.60	0.65
45:NK:331:SER:O	45:NK:335:ILE:HG12	1.96	0.65
45:NK:394:LYS:NZ	46:NL:346:PRO:HG2	2.12	0.65
46:NL:191:GLN:O	46:NL:195:ASN:ND2	2.28	0.65
45:NM:98:ASP:O	45:NM:105:ARG:NH2	2.29	0.65
46:OF:226:ASN:HD21	49:OF:502:GDP:HN1	1.45	0.65
46:QJ:83:GLN:O	46:RJ:281:TYR:OH	2.13	0.65
45:SE:33:ASP:HA	45:SE:85:GLN:HE21	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UC:254:GLU:HG2	46:UD:98:GLY:HA2	1.78	0.65
45:UE:244:PHE:HB2	45:UE:356:ASN:HD21	1.61	0.65
46:UF:154:LYS:NZ	46:UF:157:GLU:OE2	2.22	0.65
46:VL:240:LEU:HD11	46:VL:249:ASP:HA	1.79	0.65
45:CE:129:CYS:SG	45:CE:130:THR:N	2.70	0.65
6:OF:32:ILE:HD11	45:DE:79:ARG:HB2	1.77	0.65
9:1N:156:HIS:ND1	46:KJ:26:ASP:OD2	2.30	0.65
26:2W:208:LEU:HD22	45:LM:372:MET:SD	2.37	0.65
36:5B:27:LYS:HE2	36:5B:30:LYS:HE2	1.79	0.65
10:5Q:62:PRO:HB3	10:5Q:69:LEU:HD21	1.78	0.65
45:AA:11:GLN:NE2	46:AB:247:ASN:OD1	2.30	0.65
46:AD:73:MET:HA	46:AD:76:VAL:HG12	1.78	0.65
46:AJ:68:LEU:HB3	46:AJ:96:GLY:HA2	1.78	0.65
46:BD:48:ASN:O	46:BD:62:ARG:NH1	2.30	0.65
45:BE:173:PRO:O	45:BE:390:ARG:NH2	2.30	0.65
45:BI:91:GLN:HG2	45:BI:121:ARG:HH12	1.61	0.65
45:BM:397:LEU:HD23	46:BN:346:PRO:HD3	1.77	0.65
46:DL:268:ILE:HG22	46:DL:368:VAL:HG22	1.77	0.65
45:EM:311:LYS:HZ1	45:EM:344:VAL:N	1.94	0.65
46:FB:222:TYR:O	46:FB:226:ASN:ND2	2.26	0.65
45:HI:11:GLN:NE2	46:HJ:245:GLN:O	2.29	0.65
45:IM:101:ASN:HA	45:IM:144:GLY:H	1.62	0.65
46:KD:222:TYR:O	46:KD:226:ASN:ND2	2.24	0.65
45:KK:205:ASP:OD1	45:KK:206:ASN:N	2.29	0.65
46:LB:392:LYS:HD2	46:LB:395:LEU:HD22	1.79	0.65
46:LH:294:PHE:HD2	46:LH:333:VAL:HG21	1.61	0.65
46:LJ:2:ARG:HD2	46:LJ:240:LEU:HD11	1.79	0.65
45:NI:311:LYS:HG2	45:NI:342:GLN:HE22	1.59	0.65
46:OF:268:ILE:HG22	46:OF:368:VAL:HG22	1.76	0.65
46:PL:257:LEU:HD11	46:PL:314:SER:HB3	1.79	0.65
46:QH:8:GLN:NE2	46:QH:13:GLY:O	2.29	0.65
46:QL:83:GLN:O	46:RL:281:TYR:OH	2.14	0.65
46:TD:129:CYS:SG	45:TE:96:LYS:NZ	2.59	0.65
45:TG:332:ILE:HG23	45:TG:351:PHE:HD2	1.62	0.65
45:UG:326:LYS:NZ	46:UH:220:PRO:O	2.29	0.65
46:UL:318:ARG:HG2	46:UL:357:PRO:HA	1.79	0.65
46:WF:282:ARG:HH21	46:WF:288:GLU:HB3	1.61	0.65
46:WJ:344:TRP:HB3	46:WJ:430:ALA:HB2	1.78	0.65
46:WN:200:MET:HG3	46:WN:266:PHE:HB2	1.78	0.65
2:OB:242:PRO:HB3	46:JL:361:LEU:HD13	1.78	0.65
31:2I:48:PHE:HE2	46:GH:294:PHE:HB3	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:2I:56:GLN:OE1	46:GH:213:ARG:NH1	2.27	0.65
45:BA:91:GLN:HB3	45:BA:121:ARG:HH21	1.61	0.65
45:BG:98:ASP:OD1	45:BG:99:ALA:N	2.30	0.65
46:DJ:200:MET:HG2	46:DJ:268:ILE:HG23	1.78	0.65
46:FF:31:ASP:OD1	46:FF:35:THR:N	2.29	0.65
45:GK:98:ASP:O	45:GK:105:ARG:NH1	2.30	0.65
45:HA:172:TYR:CE2	45:HA:203:MET:HG3	2.31	0.65
45:HI:271:SER:OG	45:HI:301:MET:SD	2.55	0.65
45:JG:71:GLU:HB3	45:JG:98:ASP:HB2	1.79	0.65
45:JG:167:LEU:HG	45:JG:200:VAL:HB	1.78	0.65
46:LD:101:TRP:HB2	46:LD:184:ASN:HB3	1.77	0.65
46:LL:190:HIS:HE1	46:LL:414:ASN:ND2	1.95	0.65
45:MK:195:LEU:O	45:MK:266:HIS:NE2	2.27	0.65
45:NK:271:SER:OG	45:NK:301:MET:SD	2.55	0.65
45:NM:55:GLU:O	45:OM:285:GLN:NE2	2.30	0.65
45:OE:76:ASP:OD2	46:OF:46:ARG:NH2	2.30	0.65
45:PA:258:ASN:HB3	45:PA:352:LYS:HG3	1.79	0.65
45:PK:167:LEU:HG	45:PK:200:VAL:HB	1.79	0.65
46:SF:73:MET:HA	46:SF:76:VAL:HG12	1.78	0.65
46:TN:73:MET:HA	46:TN:76:VAL:HG12	1.79	0.65
45:UC:214:ARG:HH12	45:UC:220:GLU:HA	1.61	0.65
45:UK:316:SER:HA	45:UK:352:LYS:HB2	1.79	0.65
45:UM:180:ALA:HB3	45:UM:183:GLU:HG3	1.78	0.65
45:VA:241:SER:OG	45:VA:250:VAL:O	2.14	0.65
45:VG:31:GLN:NE2	45:VG:35:GLN:O	2.30	0.65
45:VI:221:ARG:NH2	46:VJ:321:MET:HB2	2.12	0.65
45:WA:173:PRO:O	45:WA:390:ARG:NH2	2.30	0.65
45:WC:251:ASP:OD1	45:WC:252:ILE:N	2.30	0.65
46:WF:153:SER:HB2	46:WF:191:GLN:HE21	1.62	0.65
46:WJ:260:PHE:HB2	46:WJ:263:LEU:HD13	1.79	0.65
23:1O:125:LEU:HD21	46:UF:83:GLN:HG3	1.79	0.65
15:4X:10:ARG:NH2	15:4X:28:GLU:OE1	2.29	0.65
36:5C:27:LYS:HE2	36:5C:30:LYS:HE2	1.79	0.65
45:AA:271:SER:HA	45:AA:302:MET:HG2	1.77	0.65
45:AM:101:ASN:HA	45:AM:144:GLY:H	1.61	0.65
46:BN:73:MET:HA	46:BN:76:VAL:HG12	1.79	0.65
45:CC:226:ASN:ND2	45:CC:367:ASP:OD2	2.30	0.65
46:CF:67:ASP:O	46:CF:92:PHE:HA	1.97	0.65
46:CH:67:ASP:O	46:CH:92:PHE:HA	1.94	0.65
46:DB:156:ARG:NH1	46:DB:159:TYR:O	2.29	0.65
46:DJ:267:MET:HG3	46:DJ:299:MET:HE2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:371:VAL:HG12	45:EE:373:ARG:H	1.61	0.65
46:EJ:15:GLN:O	46:EJ:226:ASN:ND2	2.30	0.65
46:EN:73:MET:HA	46:EN:76:VAL:HG12	1.79	0.65
46:EN:257:LEU:HD11	46:EN:314:SER:HB2	1.76	0.65
46:HB:222:TYR:O	46:HB:226:ASN:ND2	2.26	0.65
45:HE:257:THR:HA	46:HH:397:TRP:CH2	2.32	0.65
45:II:11:GLN:HG3	45:II:74:VAL:HG11	1.79	0.65
45:JE:254:GLU:OE1	45:JE:257:THR:OG1	2.11	0.65
45:LI:116:ASP:OD1	45:LI:117:LEU:N	2.29	0.65
46:MH:128:ASP:OD1	46:MH:129:CYS:N	2.29	0.65
45:MK:430:LYS:HA	45:MK:433:GLU:OE1	1.96	0.65
45:MM:140:SER:OG	47:MM:501:GTP:O2B	2.15	0.65
45:NI:223:THR:HG22	45:NI:224:TYR:H	1.61	0.65
46:NL:344:TRP:HB3	46:NL:430:ALA:HB2	1.79	0.65
45:NM:71:GLU:HG3	45:NM:98:ASP:HB2	1.79	0.65
45:OA:320:ARG:NH2	45:OA:358:GLN:OE1	2.30	0.65
46:PB:222:TYR:O	46:PB:226:ASN:ND2	2.27	0.65
45:QG:203:MET:HG3	45:QG:384:ILE:HD11	1.79	0.65
45:QG:335:ILE:HA	45:QG:338:LYS:HE3	1.78	0.65
45:RA:229:ARG:NH2	45:RA:367:ASP:OD2	2.29	0.65
46:RF:289:LEU:HD13	46:RF:365:VAL:HG23	1.78	0.65
46:SL:324:LYS:HD3	45:SM:222:PRO:HD2	1.79	0.65
45:SM:326:LYS:HD3	46:SN:212:PHE:HZ	1.61	0.65
46:TH:97:ALA:HB3	46:TH:143:THR:HB	1.78	0.65
46:TL:226:ASN:HD21	49:TL:501:GDP:HN1	1.45	0.65
45:UG:226:ASN:ND2	45:UG:367:ASP:OD2	2.30	0.65
45:UK:188:ILE:HD12	45:UK:425:LEU:HD11	1.78	0.65
45:WC:326:LYS:HD2	46:WF:220:PRO:HD2	1.78	0.65
19:1J:198:ARG:HG3	45:IG:372:MET:SD	2.36	0.65
19:1J:291:ASP:OD2	45:IK:221:ARG:NH1	2.30	0.65
30:4H:205:GLN:HE22	45:AK:82:THR:N	1.94	0.65
37:5G:11:TRP:HE3	37:5G:14:ARG:HE	1.44	0.65
45:AC:345:ASP:OD1	45:AC:346:TRP:N	2.30	0.65
46:AF:3:GLU:HG3	46:AF:49:VAL:HA	1.78	0.65
46:AL:213:ARG:O	46:AL:216:LYS:NZ	2.24	0.65
45:BI:135:PHE:HB2	45:BI:166:LYS:HG3	1.78	0.65
45:BK:292:THR:HG21	45:BK:331:SER:HB3	1.79	0.65
46:DB:257:LEU:HD12	46:DB:312:THR:HG23	1.79	0.65
46:DH:7:ILE:HG22	46:DH:64:ILE:HG12	1.79	0.65
45:DK:36:MET:HG3	45:DK:38:SER:H	1.60	0.65
46:EB:67:ASP:O	46:EB:92:PHE:HA	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EG:120:ASP:OD1	45:EG:123:ARG:NH2	2.28	0.65
45:EG:140:SER:OG	47:EG:501:GTP:O2B	2.15	0.65
45:EK:128:ASN:ND2	45:FI:290:GLU:OE2	2.29	0.65
46:EL:68:LEU:HB3	46:EL:96:GLY:HA2	1.78	0.65
46:EL:164:MET:HB3	46:EL:197:ASP:H	1.62	0.65
46:GJ:286:VAL:HG21	46:GJ:325:GLU:HG3	1.78	0.65
46:HF:80:PRO:HD2	46:HF:80:PRO:O	1.97	0.65
45:MI:119:LEU:HD11	45:MI:156:ARG:HG2	1.78	0.65
45:NI:352:LYS:HZ2	46:NL:179:VAL:HG13	1.61	0.65
45:NI:402:ARG:NH2	45:NI:415:GLU:OE2	2.30	0.65
45:OC:352:LYS:NZ	46:OF:178:THR:HA	2.12	0.65
46:OL:371:SER:O	46:OL:422:TYR:OH	2.13	0.65
46:QF:150:LEU:O	46:QF:154:LYS:HG2	1.97	0.65
45:QI:108:TYR:O	45:QI:112:LYS:NZ	2.28	0.65
46:QL:309:ARG:NH1	46:QL:343:GLU:OE2	2.28	0.65
45:RG:352:LYS:HZ1	46:RH:179:VAL:N	1.92	0.65
46:RJ:5:VAL:HG12	46:RJ:62:ARG:HD3	1.79	0.65
45:RK:90:GLU:OE2	45:SK:280:LYS:NZ	2.26	0.65
46:RL:12:CYS:HA	46:RL:15:GLN:HE21	1.61	0.65
45:SI:48:ALA:HB1	45:SI:243:ARG:HB2	1.79	0.65
45:SK:75:ILE:HD13	45:SK:94:SER:HB2	1.79	0.65
46:SL:313:ALA:HB1	46:SL:367:PHE:HE1	1.61	0.65
45:TK:192:HIS:HD2	45:TK:421:ALA:HA	1.62	0.65
45:UC:2:ARG:HH21	46:UD:70:PRO:HD2	1.61	0.65
45:VI:174:SER:HB2	45:VI:177:VAL:HB	1.78	0.65
45:WI:398:MET:HE3	46:WJ:346:PRO:HD2	1.78	0.65
46:WL:268:ILE:HG22	46:WL:368:VAL:HG12	1.79	0.65
14:2V:22:ARG:NH1	45:ME:423:GLU:OE2	2.30	0.64
36:5B:27:LYS:HE2	36:5B:30:LYS:HB2	1.79	0.64
40:6G:93:LYS:NZ	45:UK:114:ILE:HG13	2.10	0.64
34:7R:541:LYS:HD2	34:7R:541:LYS:H	1.62	0.64
45:BI:276:ILE:HD12	45:BI:281:ALA:HA	1.79	0.64
46:BL:175:VAL:N	46:BL:205:GLU:OE2	2.30	0.64
46:CJ:68:LEU:HB3	46:CJ:96:GLY:HA2	1.77	0.64
46:CJ:207:LEU:HB3	46:CJ:225:LEU:HD22	1.78	0.64
45:DA:11:GLN:HG3	45:DA:74:VAL:HG11	1.80	0.64
46:DB:67:ASP:O	46:DB:92:PHE:HA	1.97	0.64
46:DD:6:HIS:O	46:DD:63:ALA:HA	1.97	0.64
45:DE:244:PHE:HB2	45:DE:356:ASN:HD21	1.61	0.64
46:DJ:324:LYS:HG3	45:DK:222:PRO:HG2	1.77	0.64
45:DM:75:ILE:HG22	45:DM:79:ARG:HE	1.59	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DM:335:ILE:HA	45:DM:338:LYS:HZ2	1.62	0.64
45:EC:209:ILE:HD12	45:EC:227:LEU:HB3	1.77	0.64
46:EN:182:PRO:HD2	46:EN:183:TYR:H	1.61	0.64
45:FA:398:MET:HE1	46:FB:346:PRO:HD2	1.79	0.64
46:FJ:309:ARG:NH2	46:FJ:426:GLN:O	2.29	0.64
45:HM:288:VAL:HG11	45:HM:327:ASP:HB3	1.77	0.64
46:IN:173:PRO:HD2	46:IN:380:ARG:HH21	1.61	0.64
45:JK:399:TYR:OH	45:JK:402:ARG:NH1	2.30	0.64
45:JM:244:PHE:HB2	45:JM:356:ASN:HD21	1.60	0.64
45:KE:56:THR:HG23	45:KE:58:ALA:H	1.62	0.64
45:KI:98:ASP:O	45:KI:105:ARG:NH2	2.30	0.64
45:KM:244:PHE:HB2	45:KM:356:ASN:HD21	1.62	0.64
46:OB:86:ARG:NH1	46:PB:281:TYR:HB3	2.09	0.64
45:OG:167:LEU:HD13	45:OG:200:VAL:HG21	1.79	0.64
45:OI:265:ILE:HG12	45:OI:432:TYR:HE1	1.63	0.64
46:PD:215:LEU:HB3	46:PD:217:LEU:HD23	1.79	0.64
45:QE:311:LYS:HE3	45:QE:342:GLN:HB3	1.79	0.64
45:QI:251:ASP:HB3	45:QI:253:THR:HG22	1.78	0.64
46:QJ:164:MET:HB3	46:QJ:197:ASP:H	1.62	0.64
45:RA:258:ASN:HD21	46:RB:178:THR:HG23	1.62	0.64
45:RC:206:ASN:OD1	47:RC:501:GTP:N2	2.30	0.64
46:RF:324:LYS:HE3	45:RG:214:ARG:HD3	1.79	0.64
46:RH:67:ASP:O	46:RH:92:PHE:HA	1.95	0.64
45:RI:248:LEU:HB2	45:RI:355:ILE:HG22	1.77	0.64
46:RJ:248:SER:HB3	46:RJ:252:LYS:HG2	1.80	0.64
46:SH:21:TRP:HA	46:SH:24:ILE:HG22	1.78	0.64
46:SH:324:LYS:HD2	45:SI:210:TYR:CD2	2.33	0.64
45:SI:108:TYR:HA	45:SI:112:LYS:HE3	1.79	0.64
45:SK:78:VAL:HA	45:SK:84:ARG:HH21	1.62	0.64
46:TD:322:SER:OG	45:TE:221:ARG:NH1	2.29	0.64
46:UD:284:LEU:HD12	46:UD:289:LEU:HD21	1.79	0.64
45:VG:337:THR:O	45:VG:339:ARG:NH1	2.29	0.64
45:VI:141:VAL:HG11	45:VI:172:TYR:HD1	1.62	0.64
45:WA:222:PRO:HD2	46:WB:324:LYS:CE	2.27	0.64
45:WC:251:ASP:HB3	45:WC:254:GLU:HG3	1.79	0.64
46:WL:290:THR:HA	46:WL:293:MET:HG2	1.79	0.64
7:OG:21:ASN:ND2	46:JL:218:THR:OG1	2.29	0.64
4:ID:95:GLN:HE22	45:EG:364:PRO:HB2	1.61	0.64
23:IO:268:ASN:CB	45:UA:282:TYR:HB2	2.28	0.64
45:BK:164:LYS:O	45:BK:166:LYS:NZ	2.30	0.64
45:BK:352:LYS:HE3	46:BN:179:VAL:HG13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CF:203:ASP:OD2	46:CF:302:ALA:N	2.26	0.64
46:CH:322:SER:OG	45:CI:222:PRO:O	2.14	0.64
46:CL:274:THR:HG21	46:CL:282:ARG:HD2	1.77	0.64
46:DD:190:HIS:CE1	46:DD:414:ASN:HD22	2.16	0.64
46:DF:54:ALA:HA	46:EF:283:ALA:HB2	1.80	0.64
45:DG:276:ILE:HD11	45:DG:280:LYS:HG3	1.78	0.64
45:DG:288:VAL:HG21	45:DG:327:ASP:HB3	1.78	0.64
46:DL:150:LEU:HB2	46:DL:154:LYS:HZ3	1.60	0.64
46:ED:325:GLU:H	45:EE:221:ARG:NH2	1.95	0.64
46:FJ:256:ASN:HD22	46:FJ:350:LYS:HD2	1.62	0.64
46:HJ:222:TYR:O	46:HJ:226:ASN:ND2	2.19	0.64
45:IA:260:VAL:HB	46:ID:397:TRP:CZ2	2.32	0.64
45:IC:31:GLN:HE22	45:IC:37:PRO:HD3	1.61	0.64
46:ID:114:ASP:OD1	46:ID:115:SER:N	2.29	0.64
46:IH:290:THR:OG1	46:IH:329:GLN:NE2	2.29	0.64
46:JN:344:TRP:CD1	46:JN:345:ILE:HG23	2.31	0.64
46:MF:313:ALA:HB3	46:MF:349:ILE:HG12	1.78	0.64
46:OB:113:ILE:HG12	46:OB:117:LEU:HD23	1.79	0.64
46:ON:318:ARG:HB3	46:ON:357:PRO:HA	1.79	0.64
46:SB:161:ASP:O	46:SB:251:ARG:NH2	2.30	0.64
46:TB:3:GLU:HG2	46:TB:49:VAL:HA	1.80	0.64
46:TN:83:GLN:O	46:UN:281:TYR:OH	2.14	0.64
45:UE:207:GLU:HA	45:UE:210:TYR:CD2	2.32	0.64
45:UI:352:LYS:HZ1	46:UJ:179:VAL:H	1.44	0.64
46:UJ:222:TYR:O	46:UJ:226:ASN:ND2	2.27	0.64
46:UL:318:ARG:HB3	46:UL:364:ALA:HB3	1.79	0.64
46:VD:86:ARG:HD2	46:VD:88:ASP:H	1.62	0.64
45:CE:175:PRO:HG3	45:CE:390:ARG:NH1	2.12	0.64
24:1P:341:LEU:HD22	45:TC:364:PRO:HG3	1.78	0.64
25:1R:454:ARG:HH22	46:FD:218:THR:HG22	1.61	0.64
37:5E:197:LEU:HD13	45:LC:393:HIS:HB2	1.79	0.64
46:AB:281:TYR:HD1	46:MB:86:ARG:HG3	1.63	0.64
45:AM:90:GLU:HG2	45:BM:280:LYS:HZ1	1.62	0.64
46:BB:60:VAL:HG21	46:BB:86:ARG:HG2	1.80	0.64
45:BE:101:ASN:HA	45:BE:144:GLY:H	1.60	0.64
46:CB:178:THR:HB	46:CB:181:GLU:HG3	1.78	0.64
46:CH:321:MET:HB2	45:CI:221:ARG:HH21	1.62	0.64
45:CI:268:MET:HG3	45:CI:380:ASN:HB3	1.79	0.64
46:CN:207:LEU:HD13	46:CN:225:LEU:HB3	1.78	0.64
45:DG:26:LEU:HD13	45:DG:363:VAL:HG12	1.78	0.64
46:EB:86:ARG:HH12	46:FB:282:ARG:HA	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EH:8:GLN:NE2	46:EH:14:ASN:HA	2.13	0.64
46:FJ:268:ILE:HG13	46:FJ:300:MET:HE3	1.78	0.64
46:HF:67:ASP:OD1	46:HF:68:LEU:N	2.31	0.64
45:IA:254:GLU:OE2	46:ID:99:ASN:ND2	2.30	0.64
45:KK:349:THR:OG1	46:KN:176:SER:OG	2.16	0.64
45:MK:253:THR:HA	45:MK:256:GLN:HE22	1.61	0.64
46:NF:86:ARG:NH2	46:OF:281:TYR:O	2.30	0.64
45:OI:212:ILE:HD11	45:OI:300:ASN:HA	1.78	0.64
46:OJ:215:LEU:HD21	46:OJ:273:LEU:HD12	1.79	0.64
45:OK:99:ALA:HB3	45:OK:145:THR:HB	1.79	0.64
45:PI:326:LYS:HG2	46:PL:212:PHE:CZ	2.30	0.64
46:QB:268:ILE:HG22	46:QB:368:VAL:HG22	1.79	0.64
45:RC:70:LEU:HD12	45:RC:95:GLY:HA3	1.80	0.64
46:RH:375:GLN:HB2	46:RH:379:LYS:HZ2	1.63	0.64
45:SC:98:ASP:O	45:SC:105:ARG:NH2	2.28	0.64
46:SJ:139:LEU:HD13	46:SJ:168:SER:HB2	1.79	0.64
46:SN:139:LEU:HD22	46:SN:170:VAL:HG12	1.80	0.64
46:TB:100:ASN:ND2	46:TB:401:GLU:OE1	2.30	0.64
46:TF:97:ALA:HB3	46:TF:143:THR:HB	1.79	0.64
46:TH:222:TYR:O	46:TH:226:ASN:ND2	2.29	0.64
46:TL:58:ARG:HD2	46:UL:280:GLN:HE22	1.62	0.64
46:UB:65:LEU:HD22	46:UB:90:PHE:HE1	1.62	0.64
46:WD:325:GLU:HA	46:WD:328:GLU:HG3	1.79	0.64
46:WF:135:ILE:HG13	46:WF:152:ILE:HD11	1.79	0.64
4:1D:81:ARG:NH2	46:EF:358:PRO:O	2.30	0.64
7:1G:142:LYS:HE3	45:JA:84:ARG:HD2	1.79	0.64
23:1O:268:ASN:N	45:UA:282:TYR:CG	2.61	0.64
11:1S:17:LYS:NZ	46:WF:90:PHE:O	2.30	0.64
11:1S:150:GLN:HE22	45:WC:163:LYS:H	1.42	0.64
34:4R:242:ASN:HB2	45:BE:57:GLY:HA3	1.78	0.64
34:5R:415:LYS:NZ	34:5R:451:ASP:OD2	2.28	0.64
46:AF:7:ILE:HB	46:AF:135:ILE:HG12	1.78	0.64
45:AK:76:ASP:OD2	45:AK:79:ARG:NH2	2.30	0.64
45:AK:288:VAL:HA	45:AK:291:ILE:HG12	1.78	0.64
45:BA:288:VAL:HG11	45:BA:327:ASP:HB3	1.79	0.64
46:CD:45:GLU:HG3	46:CD:46:ARG:HD2	1.77	0.64
45:EC:326:LYS:HG2	46:ED:212:PHE:CE2	2.33	0.64
45:GC:177:VAL:HG22	46:GD:331:LEU:HD11	1.78	0.64
46:GD:385:PHE:HE2	46:GD:412:GLU:HB2	1.63	0.64
46:GH:52:ASN:OD1	46:GH:62:ARG:NH2	2.30	0.64
46:GN:55:THR:HG23	46:HN:283:ALA:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:100:ASN:ND2	46:GN:401:GLU:OE1	2.31	0.64
46:HH:301:CYS:SG	46:HH:302:ALA:N	2.71	0.64
46:IB:151:LEU:HA	46:IB:154:LYS:HG2	1.80	0.64
45:JE:36:MET:HG3	45:JE:37:PRO:HD2	1.80	0.64
46:KD:292:GLN:HG2	46:KD:298:ASN:HD22	1.62	0.64
46:KJ:108:GLU:OE2	46:KJ:108:GLU:N	2.30	0.64
45:LA:259:LEU:HD21	45:LA:316:SER:HB2	1.79	0.64
46:LL:372:THR:HG21	46:LL:426:GLN:HB2	1.77	0.64
45:MC:76:ASP:OD1	45:MC:79:ARG:NH2	2.31	0.64
46:MN:178:THR:HB	46:MN:181:GLU:HG3	1.78	0.64
45:NA:89:PRO:HD2	45:OA:280:LYS:NZ	2.13	0.64
46:NB:113:ILE:HG12	46:NB:117:LEU:HD23	1.80	0.64
46:NL:257:LEU:HD21	46:NL:314:SER:HB3	1.78	0.64
45:QA:55:GLU:HG3	45:QA:57:GLY:H	1.63	0.64
46:QD:350:LYS:NZ	46:QD:352:SER:OG	2.31	0.64
46:QF:1:MET:N	46:QF:3:GLU:OE2	2.30	0.64
46:QF:68:LEU:HB3	46:QF:96:GLY:HA2	1.77	0.64
45:QG:101:ASN:HA	45:QG:144:GLY:H	1.62	0.64
46:QJ:304:ASP:OD2	46:QJ:307:HIS:ND1	2.29	0.64
45:RA:60:LYS:NZ	45:RA:85:GLN:O	2.30	0.64
45:RE:292:THR:HG21	45:RE:331:SER:HB2	1.80	0.64
46:RJ:49:VAL:HG21	46:RJ:241:ARG:HG2	1.78	0.64
45:TG:389:SER:O	45:TG:393:HIS:ND1	2.31	0.64
46:TJ:164:MET:HB2	46:TJ:197:ASP:H	1.62	0.64
45:TM:265:ILE:HG22	45:TM:380:ASN:HD21	1.63	0.64
45:UG:188:ILE:HD12	45:UG:425:LEU:HD11	1.80	0.64
45:UI:348:PRO:HD3	46:UJ:388:MET:HE1	1.79	0.64
46:UJ:2:ARG:HH12	46:UJ:240:LEU:HG	1.61	0.64
46:UL:86:ARG:HE	46:UL:87:PRO:HD2	1.62	0.64
46:VN:226:ASN:HD21	49:VN:501:GDP:HN1	1.46	0.64
46:WB:119:VAL:HA	46:WB:122:LYS:HD3	1.78	0.64
45:WM:221:ARG:NH1	46:WN:322:SER:OG	2.29	0.64
45:DC:36:MET:SD	45:DC:37:PRO:HD2	2.37	0.64
1:0A:138:TRP:CZ3	45:AA:81:GLY:HA2	2.32	0.64
21:1L:524:ARG:NH2	46:BF:357:PRO:O	2.25	0.64
10:1Q:38:THR:HG22	35:4S:208:GLN:NE2	2.07	0.64
9:2N:15:ARG:NH1	46:IB:45:GLU:OE1	2.30	0.64
34:5R:567:ASN:OD1	34:5R:568:ASP:N	2.31	0.64
34:6R:430:LEU:HD22	34:6R:442:PHE:HE1	1.61	0.64
46:AB:309:ARG:NH2	46:AB:426:GLN:O	2.23	0.64
45:AE:118:CYS:O	45:AE:122:ILE:HG12	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AH:396:HIS:HA	46:AH:399:THR:HG22	1.78	0.64
46:AJ:257:LEU:HD11	46:AJ:314:SER:HB2	1.79	0.64
45:AM:226:ASN:ND2	45:AM:367:ASP:OD2	2.29	0.64
46:AN:44:LEU:HA	46:AN:47:ILE:HD11	1.80	0.64
46:BN:178:THR:HB	46:BN:181:GLU:HG3	1.79	0.64
46:CD:236:VAL:HG23	46:CD:237:THR:HG23	1.79	0.64
46:CF:182:PRO:HD2	46:CF:388:MET:HE1	1.79	0.64
46:CH:375:GLN:HG3	46:CH:379:LYS:NZ	2.12	0.64
46:CL:91:VAL:HG21	46:CL:116:VAL:HB	1.80	0.64
46:CL:324:LYS:HG2	45:CM:222:PRO:HG2	1.78	0.64
45:DI:244:PHE:HB2	45:DI:356:ASN:HD21	1.62	0.64
46:DN:100:ASN:HD22	46:DN:103:LYS:HG3	1.63	0.64
46:EB:358:PRO:HB2	46:EB:361:LEU:HD13	1.79	0.64
45:EE:9:VAL:HG12	45:EE:68:LEU:HB2	1.78	0.64
45:FE:64:ARG:NH1	45:FE:129:CYS:SG	2.70	0.64
46:FJ:293:MET:SD	46:FJ:365:VAL:HG11	2.38	0.64
45:GC:287:SER:N	45:GC:290:GLU:OE2	2.26	0.64
45:GG:407:TRP:HZ2	46:GH:258:ILE:HD11	1.60	0.64
46:GH:215:LEU:HD21	46:GH:273:LEU:HD12	1.79	0.64
46:GN:246:LEU:HD13	46:GN:353:ILE:HD13	1.78	0.64
45:HG:64:ARG:NH1	45:HG:129:CYS:SG	2.71	0.64
45:HM:188:ILE:HD12	45:HM:425:LEU:HD11	1.80	0.64
46:HN:215:LEU:HB3	46:HN:217:LEU:HD13	1.80	0.64
45:IG:55:GLU:HG3	45:IG:57:GLY:H	1.61	0.64
45:IK:272:TYR:HB3	45:IK:275:ILE:HD11	1.79	0.64
45:JK:222:PRO:HD2	46:JL:324:LYS:HZ2	1.61	0.64
45:JK:308:ARG:HH11	45:JK:340:THR:HG22	1.62	0.64
46:JL:350:LYS:NZ	46:JL:352:SER:OG	2.30	0.64
45:JM:71:GLU:HB2	46:JN:2:ARG:HH12	1.62	0.64
45:KA:288:VAL:HA	45:KA:291:ILE:HG12	1.79	0.64
45:LE:292:THR:HG21	45:LE:331:SER:HB2	1.78	0.64
45:MC:254:GLU:OE1	46:MF:99:ASN:ND2	2.30	0.64
46:NB:1:MET:N	46:NB:3:GLU:OE1	2.25	0.64
45:NC:73:THR:O	45:NC:77:GLU:HG2	1.97	0.64
45:OK:276:ILE:HG23	45:OK:280:LYS:HE2	1.78	0.64
46:PJ:100:ASN:HB3	46:PJ:103:LYS:HB2	1.80	0.64
45:PM:244:PHE:HB2	45:PM:356:ASN:HD21	1.61	0.64
45:QA:188:ILE:HD12	45:QA:425:LEU:HD11	1.79	0.64
46:QF:346:PRO:O	45:QG:394:LYS:NZ	2.29	0.64
46:QH:165:GLU:HG3	46:QH:250:LEU:HD11	1.77	0.64
46:QJ:322:SER:O	45:QK:221:ARG:NH2	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RM:288:VAL:HG11	45:RM:327:ASP:HB3	1.79	0.64
46:SD:121:ARG:NH2	46:SD:158:GLU:OE1	2.31	0.64
46:SL:139:LEU:HD22	46:SL:170:VAL:HG12	1.79	0.64
46:SL:186:THR:HG23	46:SL:415:MET:HE1	1.80	0.64
45:TC:2:ARG:HH21	46:TD:70:PRO:HD3	1.62	0.64
45:TM:80:THR:O	45:TM:84:ARG:NH2	2.27	0.64
46:UD:372:THR:HA	46:UD:422:TYR:HE2	1.63	0.64
45:UM:214:ARG:HH12	45:UM:220:GLU:HG2	1.61	0.64
45:VI:260:VAL:HB	46:VL:397:TRP:CZ2	2.32	0.64
46:WB:11:GLN:OE1	46:WB:15:GLN:NE2	2.24	0.64
45:WK:173:PRO:O	45:WK:390:ARG:NH2	2.30	0.64
45:WM:181:VAL:HG13	46:WN:350:LYS:HZ3	1.62	0.64
19:1J:122:ARG:HH22	45:IE:218:ASP:HB3	1.63	0.64
4:2D:187:PHE:HB2	46:FJ:322:SER:HB3	1.78	0.64
23:2O:239:ILE:HG13	46:VJ:276:ARG:HH12	1.62	0.64
35:4S:193:PHE:HB3	35:4S:214:LEU:HD12	1.78	0.64
40:6G:201:MET:O	46:VF:336:LYS:NZ	2.30	0.64
45:AC:76:ASP:OD1	45:AC:79:ARG:NH2	2.31	0.64
45:AE:115:VAL:HG11	45:AE:152:LEU:HD23	1.79	0.64
45:BA:101:ASN:HA	45:BA:144:GLY:H	1.62	0.64
45:BM:287:SER:N	45:BM:290:GLU:OE1	2.29	0.64
46:DB:268:ILE:HG13	46:DB:300:MET:HG3	1.80	0.64
46:DJ:376:GLU:OE1	46:DJ:380:ARG:NH2	2.30	0.64
46:DL:309:ARG:NH2	46:DL:426:GLN:O	2.28	0.64
46:DN:73:MET:HA	46:DN:76:VAL:HG12	1.79	0.64
45:EC:11:GLN:NE2	47:EC:501:GTP:O3A	2.29	0.64
45:EG:338:LYS:HZ2	45:EG:340:THR:H	1.45	0.64
45:EI:226:ASN:ND2	45:EI:367:ASP:OD2	2.29	0.64
46:FF:242:PHE:HB3	46:FF:356:ILE:HD13	1.80	0.64
46:FH:289:LEU:HD13	46:FH:365:VAL:HG23	1.78	0.64
46:GF:371:SER:O	46:GF:422:TYR:OH	2.15	0.64
45:GK:328:VAL:HG11	45:GK:353:VAL:HG21	1.79	0.64
45:IG:121:ARG:NH1	45:IG:124:LYS:HE3	2.12	0.64
46:JH:31:ASP:OD1	46:JH:35:THR:N	2.27	0.64
45:LC:206:ASN:OD1	47:LC:501:GTP:N2	2.31	0.64
46:LF:166:THR:OG1	46:LF:199:CYS:SG	2.55	0.64
45:MC:91:GLN:HG2	45:MC:121:ARG:HD2	1.80	0.64
45:ME:60:LYS:NZ	45:ME:85:GLN:O	2.28	0.64
46:NH:68:LEU:HD13	46:NH:93:GLY:HA3	1.79	0.64
46:OD:154:LYS:HA	46:OD:154:LYS:HE3	1.80	0.64
46:PD:293:MET:HG2	46:PD:365:VAL:HG11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QD:260:PHE:HB2	46:QD:263:LEU:HD13	1.79	0.64
46:QD:284:LEU:HD11	46:QD:362:LYS:HG2	1.80	0.64
46:QF:86:ARG:NH2	46:RF:281:TYR:O	2.31	0.64
46:RB:5:VAL:HG12	46:RB:62:ARG:HD3	1.79	0.64
46:TH:284:LEU:HD12	46:TH:289:LEU:HD11	1.78	0.64
46:TL:97:ALA:HA	46:TL:103:LYS:NZ	2.13	0.64
46:TL:258:ILE:H	45:TM:407:TRP:HH2	1.45	0.64
45:UC:75:ILE:HD12	45:UC:92:LEU:HB3	1.78	0.64
46:VB:318:ARG:HG2	46:VB:357:PRO:HA	1.80	0.64
45:VK:209:ILE:HD13	45:VK:302:MET:HG3	1.77	0.64
45:VK:256:GLN:O	46:VN:397:TRP:NE1	2.29	0.64
46:WH:178:THR:HG22	46:WH:180:VAL:H	1.63	0.64
45:WK:140:SER:OG	47:WK:501:GTP:O2B	2.16	0.64
35:4S:150:LEU:HB3	35:4S:189:VAL:HG11	1.80	0.64
37:5G:172:ASN:HB2	37:5G:176:ASP:HB3	1.78	0.64
37:5H:111:ASN:HB3	46:NN:44:LEU:HD13	1.78	0.64
10:6Q:41:ASP:OD2	10:6Q:81:LYS:NZ	2.31	0.64
34:6R:256:LEU:HD23	34:6R:280:LEU:HD23	1.80	0.64
34:6R:415:LYS:NZ	34:6R:451:ASP:OD2	2.28	0.64
44:8R:154:ALA:HA	44:8R:157:TYR:CE1	2.31	0.64
45:AA:145:THR:OG1	47:AA:501:GTP:O1B	2.16	0.64
46:AF:167:PHE:CE1	46:AF:233:MET:HG2	2.32	0.64
45:AG:226:ASN:ND2	45:AG:367:ASP:OD2	2.30	0.64
46:AL:222:TYR:O	46:AL:226:ASN:ND2	2.20	0.64
46:BN:274:THR:HB	46:BN:282:ARG:HH11	1.63	0.64
46:CL:274:THR:OG1	46:CL:279:GLN:OE1	2.15	0.64
46:DD:73:MET:HA	46:DD:76:VAL:HG12	1.80	0.64
46:EL:97:ALA:HB3	46:EL:143:THR:HG22	1.79	0.64
45:FE:336:LYS:O	45:FE:339:ARG:NH2	2.31	0.64
46:GH:1:MET:HE2	46:GH:2:ARG:H	1.63	0.64
46:GL:202:ILE:HD11	46:GL:268:ILE:HD11	1.78	0.64
46:GN:260:PHE:HB2	46:GN:263:LEU:HD13	1.79	0.64
46:HN:203:ASP:OD2	46:HN:302:ALA:N	2.24	0.64
46:IF:372:THR:HA	46:IF:422:TYR:HE2	1.62	0.64
45:IK:175:PRO:HG2	45:IK:304:LYS:HG2	1.80	0.64
46:IL:174:LYS:HA	46:IL:174:LYS:HE3	1.79	0.64
45:JI:254:GLU:OE1	45:JI:352:LYS:NZ	2.30	0.64
46:KH:156:ARG:NH1	46:KH:197:ASP:OD2	2.30	0.64
45:KK:51:THR:HG21	45:KK:243:ARG:HD3	1.77	0.64
46:MN:103:LYS:HA	46:MN:107:THR:HG22	1.79	0.64
46:NB:178:THR:HB	46:NB:181:GLU:HG3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:117:LEU:HD21	46:ND:154:LYS:HE2	1.78	0.64
46:NH:344:TRP:HB3	46:NH:430:ALA:HB2	1.80	0.64
45:OA:294:SER:O	45:OA:300:ASN:ND2	2.28	0.64
46:OD:286:VAL:HG23	46:OD:287:PRO:HD3	1.80	0.64
46:PD:282:ARG:NH2	46:PD:292:GLN:OE1	2.29	0.64
45:QC:224:TYR:HD1	45:QC:227:LEU:HD12	1.63	0.64
45:QM:304:LYS:HD2	45:QM:304:LYS:O	1.97	0.64
46:RB:139:LEU:HD22	46:RB:170:VAL:HG12	1.78	0.64
45:SE:280:LYS:HA	45:SE:283:HIS:CD2	2.30	0.64
45:SI:64:ARG:NH1	45:SI:129:CYS:SG	2.71	0.64
45:TG:98:ASP:O	45:TG:105:ARG:NH1	2.30	0.64
46:TJ:253:LEU:HA	46:TJ:350:LYS:HZ1	1.63	0.64
46:UB:251:ARG:HE	45:UC:105:ARG:HH22	1.45	0.64
45:UC:316:SER:HA	45:UC:352:LYS:HB3	1.79	0.64
46:UJ:86:ARG:HB3	46:UJ:89:ASN:ND2	2.12	0.64
46:VB:148:GLY:O	46:VB:152:ILE:HG12	1.97	0.64
46:VD:273:LEU:H	46:VD:292:GLN:HE22	1.46	0.64
46:VD:372:THR:HA	46:VD:422:TYR:HE2	1.61	0.64
46:VF:16:ILE:HD12	46:VF:229:VAL:HG11	1.80	0.64
46:VH:143:THR:OG1	49:VH:501:GDP:O1B	2.16	0.64
45:WG:212:ILE:HD11	45:WG:300:ASN:HA	1.78	0.64
4:OD:224:ARG:NH2	34:7R:492:ILE:O	2.30	0.64
7:OG:155:PRO:HB2	45:KM:29:GLY:HA2	1.78	0.64
1:2A:36:ARG:HD2	46:MJ:42:LEU:HD11	1.79	0.64
20:2K:266:LEU:HD13	45:GK:370:LYS:HE3	1.79	0.64
1:3A:138:TRP:CZ3	45:AM:81:GLY:HA2	2.32	0.64
23:3O:337:PHE:HD1	46:UJ:362:LYS:HZ1	1.42	0.64
37:5F:206:VAL:O	45:LG:430:LYS:NZ	2.30	0.64
46:AB:58:ARG:HH22	46:BB:281:TYR:HA	1.62	0.64
46:AF:210:ILE:O	46:AF:214:THR:OG1	2.12	0.64
46:AH:96:GLY:O	46:AH:103:LYS:NZ	2.31	0.64
46:BF:318:ARG:HB3	46:BF:357:PRO:HA	1.78	0.64
46:DD:8:GLN:NE2	46:DD:14:ASN:OD1	2.31	0.64
46:EB:2:ARG:NH2	45:EC:96:LYS:O	2.30	0.64
46:EJ:1:MET:HG3	46:EJ:2:ARG:HG3	1.79	0.64
46:EL:237:THR:HG23	46:EL:241:ARG:HH21	1.61	0.64
45:IC:336:LYS:HD3	45:IC:351:PHE:HE2	1.62	0.64
46:JB:235:GLY:HA3	46:JB:366:THR:HG21	1.77	0.64
45:JE:88:HIS:CE1	45:JE:90:GLU:HG2	2.33	0.64
45:JM:123:ARG:NH2	45:JM:161:TYR:OH	2.30	0.64
45:LC:269:LEU:HD22	45:LC:384:ILE:HD11	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:6:HIS:NE2	46:LJ:8:GLN:OE1	2.29	0.64
46:LL:207:LEU:HD23	46:LL:225:LEU:HB3	1.80	0.64
46:MB:222:TYR:O	46:MB:226:ASN:ND2	2.26	0.64
46:MB:267:MET:HB2	46:MB:299:MET:CE	2.28	0.64
46:MJ:257:LEU:HD21	46:MJ:314:SER:HB2	1.79	0.64
45:NK:219:ILE:HG13	45:NK:221:ARG:H	1.63	0.64
45:OC:307:PRO:HB3	45:OC:312:TYR:HE1	1.62	0.64
45:OG:292:THR:HG21	45:OG:331:SER:HB3	1.80	0.64
46:ON:254:ALA:O	46:ON:258:ILE:HG22	1.98	0.64
45:QC:55:GLU:HG3	45:QC:57:GLY:H	1.62	0.64
45:QC:400:ALA:O	45:QC:402:ARG:NH1	2.31	0.64
46:RJ:207:LEU:HD13	46:RJ:225:LEU:HB2	1.80	0.64
46:TH:242:PHE:HB3	46:TH:356:ILE:HD13	1.80	0.64
46:TL:322:SER:OG	45:TM:221:ARG:NH2	2.31	0.64
45:VA:216:ASN:ND2	45:VA:275:ILE:O	2.31	0.64
45:VK:133:GLN:HB3	45:VK:252:ILE:HD11	1.80	0.64
46:VL:222:TYR:O	46:VL:226:ASN:ND2	2.24	0.64
4:0D:81:ARG:HH12	46:EB:360:GLY:H	1.44	0.64
4:1D:46:PRO:HG3	46:DF:44:LEU:HD21	1.78	0.64
19:1J:342:LYS:NZ	46:IN:276:ARG:HB3	2.10	0.64
36:5C:125:GLN:O	46:NL:276:ARG:NH1	2.31	0.64
36:5D:43:CYS:SG	46:KN:391:ARG:NE	2.71	0.64
34:6R:128:HIS:HE1	34:6R:143:VAL:HG23	1.62	0.64
45:BC:88:HIS:CD2	45:CC:280:LYS:HZ1	2.16	0.64
45:BI:329:ASN:HD21	46:BL:175:VAL:HG12	1.63	0.64
46:BJ:67:ASP:OD1	46:BJ:68:LEU:N	2.28	0.64
45:BM:64:ARG:NH1	45:BM:129:CYS:SG	2.71	0.64
46:CH:287:PRO:HA	46:CH:329:GLN:HE22	1.62	0.64
45:CM:284:GLU:HG2	45:CM:286:LEU:HD22	1.79	0.64
45:DG:36:MET:HG3	45:DG:38:SER:H	1.62	0.64
45:EG:363:VAL:HG13	45:EG:366:GLY:HA3	1.79	0.64
45:EM:284:GLU:HG2	45:EM:286:LEU:HD12	1.80	0.64
46:FH:16:ILE:HD12	46:FH:229:VAL:HG11	1.79	0.64
46:GF:207:LEU:HB3	46:GF:225:LEU:HD22	1.79	0.64
45:GI:221:ARG:NH1	46:GJ:325:GLU:OE1	2.31	0.64
45:HE:398:MET:HE1	46:HF:346:PRO:HD2	1.79	0.64
46:HH:309:ARG:NH1	46:HH:339:SER:O	2.31	0.64
45:IG:258:ASN:ND2	45:IG:352:LYS:HE3	2.13	0.64
45:KA:387:VAL:HG12	45:KA:390:ARG:HH22	1.63	0.64
46:KB:62:ARG:NH1	46:KB:127:CYS:SG	2.70	0.64
45:KE:116:ASP:OD1	45:KE:117:LEU:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:67:ASP:O	46:LJ:92:PHE:HA	1.97	0.64
46:ND:318:ARG:HB3	46:ND:357:PRO:HA	1.77	0.64
46:OJ:232:ALA:HB1	46:OJ:268:ILE:HG21	1.80	0.64
45:PI:90:GLU:OE2	45:PI:121:ARG:NH2	2.31	0.64
45:QK:167:LEU:HD22	45:QK:200:VAL:HB	1.78	0.64
45:RA:188:ILE:HD12	45:RA:425:LEU:HD11	1.80	0.64
46:RH:73:MET:HA	46:RH:76:VAL:HG22	1.78	0.64
45:RM:8:HIS:CE1	45:RM:138:PHE:HD2	2.16	0.64
46:SF:347:ASN:ND2	45:SG:176:GLN:O	2.31	0.64
46:UD:32:PRO:O	46:UD:83:GLN:NE2	2.31	0.64
45:UE:33:ASP:O	45:UE:60:LYS:NZ	2.27	0.64
45:UE:276:ILE:HD11	45:UE:280:LYS:HG3	1.79	0.64
46:UL:214:THR:O	46:UL:216:LYS:NZ	2.30	0.64
45:WG:288:VAL:HG11	45:WG:327:ASP:HB3	1.80	0.64
45:WI:55:GLU:HG3	45:WI:57:GLY:H	1.63	0.64
2:0B:284:GLN:O	46:KL:276:ARG:NH2	2.30	0.64
4:1D:81:ARG:HH21	46:EF:357:PRO:HG2	1.63	0.64
19:1J:244:LEU:HD22	45:II:221:ARG:HD3	1.79	0.64
14:2V:141:ASN:ND2	45:LG:402:ARG:O	2.31	0.64
14:3V:228:HIS:CE1	46:VD:77:ARG:HG3	2.33	0.64
37:5H:110:ARG:HD3	37:5H:112:ALA:H	1.63	0.64
10:6Q:74:PRO:HB3	10:6Q:148:TYR:CE2	2.33	0.64
34:6R:153:GLN:HE21	34:6R:156:SER:HB2	1.63	0.64
45:AE:179:THR:HG21	46:AF:246:LEU:HD22	1.79	0.64
45:AE:288:VAL:HG11	45:AE:327:ASP:HB3	1.80	0.64
46:CL:47:ILE:HD12	46:CL:59:TYR:HE2	1.63	0.64
45:EC:294:SER:O	45:EC:300:ASN:ND2	2.29	0.64
45:EC:301:MET:HG3	45:EC:303:ALA:H	1.62	0.64
45:EK:9:VAL:HG12	45:EK:68:LEU:HB2	1.78	0.64
46:FJ:213:ARG:O	46:FJ:216:LYS:NZ	2.23	0.64
46:GD:118:ASP:OD1	46:GD:121:ARG:NH2	2.31	0.64
46:GF:77:ARG:NH2	46:GF:83:GLN:OE1	2.30	0.64
45:HG:88:HIS:HA	45:IG:280:LYS:NZ	2.13	0.64
46:JL:268:ILE:HG22	46:JL:368:VAL:HG12	1.78	0.64
46:KB:235:GLY:HA3	46:KB:366:THR:HG21	1.80	0.64
45:KE:167:LEU:HD23	45:KE:200:VAL:HB	1.81	0.64
46:KN:262:ARG:NH2	46:KN:414:ASN:OD1	2.31	0.64
45:LK:207:GLU:HA	45:LK:210:TYR:HD2	1.63	0.64
45:ME:371:VAL:HG12	45:ME:373:ARG:H	1.62	0.64
45:MI:226:ASN:ND2	45:MI:367:ASP:OD2	2.31	0.64
46:NH:163:ILE:HD13	46:NH:251:ARG:HG2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:414:GLU:OE1	45:NK:416:GLY:N	2.25	0.64
46:NL:67:ASP:O	46:NL:92:PHE:HA	1.98	0.64
45:OC:268:MET:HG3	45:OC:380:ASN:HB2	1.80	0.64
46:PH:12:CYS:O	46:PH:16:ILE:HG12	1.98	0.64
45:QM:294:SER:O	45:QM:300:ASN:ND2	2.31	0.64
46:QN:100:ASN:ND2	46:QN:401:GLU:OE1	2.31	0.64
45:RM:121:ARG:HH12	45:RM:124:LYS:HE2	1.62	0.64
46:SJ:121:ARG:HH12	46:TJ:336:LYS:HZ3	1.44	0.64
46:SJ:374:ILE:HG12	46:SJ:378:PHE:HE2	1.62	0.64
46:VF:5:VAL:HG12	46:VF:62:ARG:HD3	1.80	0.64
45:VK:337:THR:O	45:VK:339:ARG:NH1	2.31	0.64
46:WD:45:GLU:HG3	46:WD:46:ARG:HG2	1.78	0.64
6:0F:122:LEU:HD22	41:6H:224:SER:HB3	1.81	0.63
17:1F:145:SER:OG	46:GL:74:ASP:OD1	2.15	0.63
27:2C:6:VAL:HG11	15:4X:69:ALA:HB1	1.79	0.63
21:2L:751:ARG:NH2	46:BL:357:PRO:O	2.30	0.63
25:2R:429:GLU:HG3	46:FH:280:GLN:HE21	1.62	0.63
35:4S:213:ASN:OD1	35:4S:214:LEU:N	2.31	0.63
37:5G:209:ARG:NH2	45:LK:264:ARG:HE	1.96	0.63
35:5S:183:TYR:CE1	35:5S:225:LEU:HD21	2.34	0.63
34:6R:593:ASP:OD2	34:6R:598:TRP:N	2.30	0.63
45:AI:430:LYS:HA	45:AI:433:GLU:HG3	1.81	0.63
46:BL:257:LEU:HD11	46:BL:314:SER:HB2	1.80	0.63
45:CG:140:SER:OG	47:CG:501:GTP:O2B	2.16	0.63
46:CH:67:ASP:OD1	46:CH:68:LEU:N	2.29	0.63
45:CK:352:LYS:HE3	46:CL:179:VAL:HG13	1.80	0.63
45:DA:254:GLU:HG2	46:DB:98:GLY:HA2	1.80	0.63
45:EM:269:LEU:HB3	45:EM:301:MET:HE2	1.80	0.63
46:FL:362:LYS:HG3	46:FL:363:MET:SD	2.38	0.63
46:GB:248:SER:HA	46:GB:252:LYS:HG3	1.79	0.63
45:HG:257:THR:HA	46:HJ:397:TRP:HH2	1.62	0.63
46:IL:67:ASP:OD2	46:IL:68:LEU:N	2.30	0.63
45:KC:271:SER:HB2	45:KC:301:MET:HE3	1.79	0.63
45:KG:157:LEU:HD11	45:KG:166:LYS:HD3	1.80	0.63
45:KG:210:TYR:HE1	46:KH:324:LYS:HB3	1.63	0.63
46:KN:55:THR:HG23	46:LN:283:ALA:HA	1.79	0.63
45:MG:265:ILE:HG12	45:MG:432:TYR:HE2	1.61	0.63
45:NI:256:GLN:HG2	46:NL:397:TRP:HH2	1.64	0.63
45:OA:271:SER:HB2	45:OA:377:MET:HB3	1.80	0.63
45:PC:30:ILE:HG21	45:PC:53:PHE:HE2	1.62	0.63
45:PE:88:HIS:CD2	45:QE:280:LYS:HE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:292:THR:HG21	45:PI:331:SER:HB3	1.78	0.63
46:QB:190:HIS:CE1	46:QB:414:ASN:HD22	2.16	0.63
46:QD:350:LYS:HD3	45:QE:180:ALA:HA	1.80	0.63
46:RD:250:LEU:HA	46:RD:253:LEU:HD12	1.80	0.63
45:SC:11:GLN:NE2	47:SC:501:GTP:O3A	2.31	0.63
45:SC:214:ARG:HH11	45:SC:214:ARG:HA	1.61	0.63
45:SE:48:ALA:HB1	45:SE:243:ARG:HB2	1.80	0.63
45:SG:155:GLU:OE1	45:SG:197:HIS:NE2	2.31	0.63
46:SL:32:PRO:HG3	46:SL:81:PHE:HE1	1.63	0.63
46:SL:258:ILE:HG13	45:SM:407:TRP:HZ2	1.61	0.63
46:TL:222:TYR:O	46:TL:226:ASN:ND2	2.27	0.63
45:UA:271:SER:OG	45:UA:301:MET:SD	2.56	0.63
45:VA:96:LYS:NZ	46:VB:129:CYS:SG	2.69	0.63
45:VE:221:ARG:NH2	46:VF:322:SER:H	1.96	0.63
46:VF:389:PHE:HZ	46:VF:405:GLU:HG3	1.62	0.63
45:VI:211:ASP:OD1	45:VI:214:ARG:NH2	2.31	0.63
46:WD:109:GLY:HA2	46:WD:147:MET:HE2	1.79	0.63
8:1H:60:ARG:HH12	46:HN:32:PRO:HB2	1.62	0.63
21:1L:289:PHE:HE1	45:BG:221:ARG:HE	1.44	0.63
34:4R:357:LYS:NZ	34:4R:368:GLN:O	2.30	0.63
35:4S:184:ARG:HG2	35:4S:240:MET:HE1	1.79	0.63
37:5G:135:LYS:HA	37:5G:135:LYS:HE3	1.80	0.63
38:5J:46:UNK:O	45:JE:430:LYS:NZ	2.31	0.63
45:AC:371:VAL:HG12	45:AC:373:ARG:H	1.63	0.63
46:AJ:167:PHE:CE2	46:AJ:233:MET:HG2	2.34	0.63
46:BB:237:THR:HG23	46:BB:241:ARG:HH21	1.64	0.63
46:BF:273:LEU:H	46:BF:292:GLN:HE22	1.45	0.63
45:BI:111:GLY:O	45:BI:115:VAL:HG13	1.98	0.63
45:CA:135:PHE:HB2	45:CA:166:LYS:HG2	1.80	0.63
46:CF:226:ASN:HD21	49:CF:501:GDP:HN1	1.46	0.63
46:CF:325:GLU:OE1	45:CG:221:ARG:NH1	2.30	0.63
46:CJ:95:THR:OG1	46:CJ:108:GLU:OE1	2.15	0.63
45:DA:209:ILE:HG12	45:DA:302:MET:SD	2.38	0.63
45:DG:205:ASP:OD1	45:DG:303:ALA:HA	1.98	0.63
46:EF:139:LEU:HD22	46:EF:170:VAL:HG12	1.80	0.63
46:EH:304:ASP:OD1	46:EH:306:ARG:NH1	2.31	0.63
46:EN:294:PHE:CD2	46:EN:333:VAL:HG11	2.32	0.63
46:FJ:316:LEU:HG	46:FJ:352:SER:HB2	1.80	0.63
46:GB:207:LEU:HB3	46:GB:225:LEU:HD22	1.80	0.63
46:IH:226:ASN:HD21	49:IH:501:GDP:HN1	1.45	0.63
45:KC:64:ARG:NH1	45:KC:129:CYS:SG	2.72	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KM:308:ARG:HG3	45:NM:282:TYR:OH	1.99	0.63
45:LC:294:SER:HA	45:LC:297:GLU:HG2	1.80	0.63
45:LE:286:LEU:N	45:LE:290:GLU:OE2	2.30	0.63
46:NL:285:THR:N	46:NL:288:GLU:OE2	2.31	0.63
45:NM:265:ILE:HG22	45:NM:380:ASN:HD21	1.62	0.63
45:OA:210:TYR:HB3	45:OA:214:ARG:HH22	1.63	0.63
45:OE:208:ALA:HB2	45:OE:304:LYS:HG3	1.80	0.63
46:OJ:19:LYS:HG3	46:OJ:226:ASN:HB3	1.80	0.63
46:OJ:318:ARG:HB3	46:OJ:357:PRO:HA	1.79	0.63
46:PN:48:ASN:O	46:PN:62:ARG:NH1	2.32	0.63
46:RF:61:PRO:HG2	46:RF:85:PHE:HA	1.80	0.63
45:RK:7:ILE:HD11	45:RK:137:VAL:HG12	1.79	0.63
46:SF:256:ASN:HD22	46:SF:350:LYS:HD2	1.63	0.63
46:SL:222:TYR:O	46:SL:226:ASN:ND2	2.26	0.63
46:TH:113:ILE:HG21	46:TH:150:LEU:HD22	1.80	0.63
46:TL:31:ASP:OD1	46:TL:35:THR:N	2.25	0.63
46:UL:258:ILE:HD12	46:UL:264:HIS:HB3	1.80	0.63
46:VH:77:ARG:NH2	46:VH:83:GLN:OE1	2.31	0.63
46:VN:46:ARG:HH21	46:VN:48:ASN:HB3	1.62	0.63
46:WH:222:TYR:O	46:WH:226:ASN:ND2	2.24	0.63
31:3I:273:GLY:H	46:FJ:92:PHE:HE2	1.44	0.63
34:4R:318:TYR:OH	46:CF:274:THR:N	2.30	0.63
15:4X:126:ARG:HA	15:4X:129:ILE:HG12	1.81	0.63
36:5C:150:PHE:HE1	45:NK:26:LEU:HD11	1.63	0.63
34:7R:397:SER:HG	46:EB:276:ARG:HE	1.45	0.63
46:BF:130:LEU:HB3	46:BF:162:ARG:HE	1.62	0.63
45:BI:210:TYR:CG	46:BJ:324:LYS:HE3	2.33	0.63
46:BL:245:GLN:HE21	46:BL:245:GLN:HA	1.63	0.63
46:DD:178:THR:HB	46:DD:181:GLU:HG3	1.80	0.63
45:FC:254:GLU:HG2	46:FF:98:GLY:HA2	1.79	0.63
45:GE:324:VAL:HG12	45:GE:326:LYS:H	1.63	0.63
45:IC:226:ASN:ND2	45:IC:367:ASP:OD2	2.31	0.63
45:IG:91:GLN:HB3	45:IG:121:ARG:HH21	1.63	0.63
46:IH:164:MET:HB3	46:IH:197:ASP:H	1.63	0.63
45:IK:173:PRO:O	45:IK:390:ARG:NH2	2.31	0.63
46:JN:202:ILE:HD11	46:JN:268:ILE:HD11	1.80	0.63
45:KA:11:GLN:HG3	45:KA:74:VAL:HG11	1.79	0.63
45:KA:36:MET:HB2	45:KA:61:HIS:HE1	1.63	0.63
45:KE:288:VAL:HG11	45:KE:327:ASP:HB3	1.80	0.63
46:KF:284:LEU:HD11	46:KF:362:LYS:HB2	1.79	0.63
45:KI:116:ASP:OD1	45:KI:117:LEU:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:262:ARG:NH1	46:LB:421:GLU:OE2	2.30	0.63
45:NM:210:TYR:CE2	46:NN:324:LYS:HB3	2.33	0.63
45:OA:50:ASN:O	45:OA:64:ARG:NH1	2.20	0.63
45:PG:121:ARG:HE	45:PG:124:LYS:HE2	1.64	0.63
46:PJ:236:VAL:HG23	46:PJ:237:THR:HG23	1.79	0.63
45:PM:288:VAL:HG21	45:PM:327:ASP:HB3	1.80	0.63
46:QF:49:VAL:HG23	46:QF:50:TYR:CD1	2.33	0.63
45:QI:271:SER:HA	45:QI:302:MET:HG3	1.80	0.63
46:QJ:22:GLU:HG2	46:QJ:81:PHE:HD1	1.63	0.63
46:QJ:54:ALA:HA	46:RJ:283:ALA:HB2	1.80	0.63
45:RA:226:ASN:OD1	45:RA:229:ARG:NH2	2.23	0.63
46:RL:314:SER:HA	46:RL:350:LYS:O	1.97	0.63
46:SH:259:PRO:HG2	46:SH:311:LEU:HD21	1.80	0.63
46:TL:2:ARG:HH22	45:TM:71:GLU:HA	1.64	0.63
45:UC:286:LEU:O	45:UC:373:ARG:NH2	2.31	0.63
46:UJ:139:LEU:HD13	46:UJ:168:SER:HB3	1.79	0.63
45:UM:269:LEU:HD11	45:UM:384:ILE:HD13	1.79	0.63
46:WD:2:ARG:H	46:WD:129:CYS:HB3	1.61	0.63
45:WE:284:GLU:HG2	45:WE:286:LEU:HD22	1.80	0.63
46:WF:396:HIS:HA	46:WF:399:THR:HG22	1.81	0.63
45:WG:319:TYR:HB3	45:WG:323:VAL:HG11	1.79	0.63
45:DC:2:ARG:NH1	45:DC:242:LEU:O	2.31	0.63
14:OV:24:ARG:HH22	45:MM:433:GLU:HB2	1.61	0.63
26:2W:265:LEU:HD22	45:LK:370:LYS:NZ	2.13	0.63
25:3R:300:LYS:HZ1	46:CL:79:GLY:HA2	1.64	0.63
12:3T:132:PRO:HD3	45:MK:123:ARG:HH12	1.64	0.63
37:5H:20:LEU:HD22	46:NL:45:GLU:HB3	1.80	0.63
34:5R:33:LEU:H	45:LG:1:MET:HE1	1.62	0.63
40:6G:210:ARG:NH1	46:VF:296:ALA:O	2.32	0.63
46:AB:372:THR:OG1	46:AB:426:GLN:NE2	2.31	0.63
46:AD:68:LEU:HD12	46:AD:93:GLY:HA3	1.79	0.63
46:AJ:67:ASP:O	46:AJ:92:PHE:HA	1.96	0.63
45:BC:297:GLU:OE2	45:BC:300:ASN:ND2	2.32	0.63
45:BI:222:PRO:HG2	46:BJ:324:LYS:HE2	1.79	0.63
45:BM:276:ILE:HD12	45:BM:281:ALA:HA	1.80	0.63
46:CF:31:ASP:OD2	46:CF:37:HIS:ND1	2.31	0.63
46:DD:323:THR:HG1	45:DE:210:TYR:HH	1.44	0.63
46:EJ:394:PHE:HA	46:EJ:397:TRP:HZ3	1.63	0.63
45:EM:256:GLN:HG3	46:EN:397:TRP:HE1	1.63	0.63
45:FA:254:GLU:HG2	46:FD:98:GLY:HA2	1.81	0.63
46:FB:245:GLN:HB2	46:FB:353:ILE:HB	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GI:221:ARG:NH1	45:GI:221:ARG:HA	2.13	0.63
46:GN:173:PRO:HG2	46:GN:380:ARG:HD3	1.80	0.63
46:HB:207:LEU:HB3	46:HB:225:LEU:HD22	1.81	0.63
45:HE:352:LYS:NZ	46:HH:179:VAL:H	1.96	0.63
46:IB:318:ARG:HE	46:IB:358:PRO:HG3	1.63	0.63
46:ID:67:ASP:OD2	46:ID:72:THR:OG1	2.16	0.63
45:JA:298:PRO:HD2	45:JA:299:ALA:H	1.63	0.63
46:JN:256:ASN:ND2	46:JN:350:LYS:HE3	2.13	0.63
45:KG:56:THR:HG23	45:KG:58:ALA:H	1.63	0.63
45:LA:11:GLN:NE2	46:LB:245:GLN:O	2.31	0.63
45:LG:98:ASP:OD1	45:LG:99:ALA:N	2.32	0.63
45:MA:9:VAL:HG12	45:MA:68:LEU:HB2	1.81	0.63
46:MF:405:GLU:HA	46:MF:408:PHE:HD2	1.62	0.63
45:MK:48:ALA:HB1	45:MK:243:ARG:HB2	1.81	0.63
46:OB:328:GLU:O	46:OB:332:ASN:ND2	2.32	0.63
46:OD:182:PRO:HG3	46:OD:384:GLN:HG3	1.80	0.63
45:OI:31:GLN:HG2	45:OI:37:PRO:HG3	1.81	0.63
45:PC:107:HIS:HA	45:PC:152:LEU:HD11	1.81	0.63
45:QE:88:HIS:HE1	45:QE:90:GLU:HB2	1.64	0.63
46:QF:309:ARG:NH2	46:QF:426:GLN:O	2.26	0.63
45:RC:244:PHE:HB2	45:RC:356:ASN:HD21	1.63	0.63
45:RG:254:GLU:OE2	45:RG:258:ASN:ND2	2.32	0.63
45:RK:244:PHE:HB2	45:RK:356:ASN:HD21	1.63	0.63
46:TB:86:ARG:NH1	46:TB:89:ASN:OD1	2.32	0.63
45:TC:241:SER:OG	45:TC:250:VAL:O	2.17	0.63
45:TC:389:SER:O	45:TC:393:HIS:ND1	2.28	0.63
45:TM:136:LEU:HD12	45:TM:169:PHE:HE2	1.64	0.63
45:UA:188:ILE:HD12	45:UA:425:LEU:HD11	1.80	0.63
46:UB:207:LEU:HB3	46:UB:225:LEU:HD22	1.80	0.63
46:UF:316:LEU:HD13	46:UF:352:SER:HB2	1.79	0.63
46:UJ:64:ILE:HD13	46:UJ:119:VAL:HG13	1.79	0.63
45:UM:358:GLN:NE2	45:UM:359:PRO:O	2.31	0.63
46:VF:293:MET:HE2	46:VF:367:PHE:HB2	1.81	0.63
46:VL:285:THR:HB	46:VL:287:PRO:HD2	1.80	0.63
45:WA:188:ILE:HD12	45:WA:425:LEU:HD11	1.79	0.63
46:WB:318:ARG:HB3	46:WB:357:PRO:HA	1.80	0.63
46:WL:236:VAL:HG13	46:WL:237:THR:HG23	1.79	0.63
36:5A:43:CYS:HA	36:5A:57:PRO:HA	1.79	0.63
34:5R:80:ARG:NH1	45:MI:38:SER:OG	2.30	0.63
41:6H:167:LYS:HE3	46:FB:361:LEU:HA	1.81	0.63
46:AJ:222:TYR:O	46:AJ:226:ASN:ND2	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AM:402:ARG:HD3	45:AM:405:VAL:HG21	1.79	0.63
46:BF:143:THR:OG1	49:BF:501:GDP:O1B	2.17	0.63
46:BL:58:ARG:HD2	46:CJ:280:GLN:HE22	1.63	0.63
46:BL:248:SER:HA	46:BL:252:LYS:HG3	1.81	0.63
46:CF:153:SER:HB2	46:CF:191:GLN:HE21	1.62	0.63
46:DH:267:MET:HG3	46:DH:299:MET:HE1	1.81	0.63
46:DJ:268:ILE:HG22	46:DJ:368:VAL:HG22	1.81	0.63
45:DK:88:HIS:ND1	45:DK:91:GLN:OE1	2.30	0.63
45:DK:255:PHE:O	45:DK:259:LEU:HB2	1.97	0.63
46:DN:222:TYR:O	46:DN:226:ASN:ND2	2.27	0.63
46:EN:83:GLN:O	46:FN:281:TYR:OH	2.16	0.63
46:FD:211:CYS:HB2	46:FD:217:LEU:HD21	1.79	0.63
45:GC:90:GLU:OE1	45:GC:121:ARG:NH2	2.31	0.63
45:HI:102:ASN:HB3	45:HI:105:ARG:HG3	1.80	0.63
46:IF:148:GLY:O	46:IF:152:ILE:HG12	1.99	0.63
46:LB:31:ASP:OD1	46:LB:35:THR:N	2.31	0.63
47:LC:501:GTP:O1G	46:LD:252:LYS:NZ	2.32	0.63
46:LD:316:LEU:HD13	46:LD:352:SER:HB2	1.81	0.63
46:MF:67:ASP:O	46:MF:92:PHE:HA	1.99	0.63
46:ND:257:LEU:HD21	46:ND:314:SER:HB3	1.80	0.63
46:OF:86:ARG:HD3	46:OF:87:PRO:HD2	1.81	0.63
45:OG:399:TYR:OH	45:OG:415:GLU:OE2	2.16	0.63
45:OM:387:VAL:HA	45:OM:390:ARG:HG2	1.80	0.63
45:PG:248:LEU:HB3	45:PG:355:ILE:HG12	1.81	0.63
46:QB:266:PHE:CE1	46:QB:370:ASN:HB2	2.34	0.63
46:QH:208:TYR:HE1	46:QH:225:LEU:HD11	1.62	0.63
45:QK:26:LEU:HD13	45:QK:363:VAL:HG12	1.78	0.63
46:RD:387:ALA:HA	46:RD:390:ARG:HE	1.63	0.63
46:RF:297:LYS:HE3	46:RF:297:LYS:HA	1.81	0.63
46:TB:257:LEU:HD11	46:TB:314:SER:HB3	1.79	0.63
45:TK:89:PRO:HD2	45:UK:280:LYS:HZ2	1.63	0.63
45:TK:226:ASN:ND2	45:TK:367:ASP:OD2	2.31	0.63
45:UA:272:TYR:HB3	45:UA:275:ILE:HD11	1.79	0.63
46:UB:318:ARG:HG2	46:UB:357:PRO:HA	1.80	0.63
45:UC:101:ASN:HA	45:UC:144:GLY:H	1.62	0.63
46:UF:68:LEU:HB3	46:UF:96:GLY:HA2	1.81	0.63
46:UH:189:VAL:HA	46:UH:192:LEU:HB2	1.79	0.63
46:UH:222:TYR:O	46:UH:226:ASN:ND2	2.26	0.63
46:VH:1:MET:HG2	46:VH:2:ARG:H	1.61	0.63
46:VH:207:LEU:HB3	46:VH:225:LEU:HD22	1.81	0.63
45:WA:258:ASN:ND2	45:WA:352:LYS:HE3	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WL:207:LEU:HD13	46:WL:225:LEU:HB2	1.80	0.63
4:2D:81:ARG:NH1	46:EJ:357:PRO:HD2	2.14	0.63
9:2N:1:MET:H3	45:IA:95:GLY:HA2	1.61	0.63
37:5E:120:GLU:HG2	37:5E:121:GLU:N	2.13	0.63
34:7R:570:VAL:HG12	34:7R:585:ILE:HD13	1.80	0.63
45:AA:98:ASP:O	45:AA:105:ARG:NH1	2.32	0.63
46:BD:156:ARG:NH1	46:BD:195:ASN:O	2.32	0.63
45:BM:98:ASP:O	45:BM:105:ARG:NH1	2.32	0.63
46:CL:316:LEU:HD13	46:CL:352:SER:HB2	1.81	0.63
45:DE:163:LYS:HA	45:DE:163:LYS:HE3	1.81	0.63
46:DL:256:ASN:ND2	46:DL:350:LYS:HE2	2.13	0.63
46:DN:290:THR:HA	46:DN:293:MET:HG2	1.81	0.63
46:EJ:31:ASP:OD1	46:EJ:35:THR:N	2.32	0.63
46:FN:156:ARG:NH1	46:FN:164:MET:SD	2.72	0.63
46:HH:213:ARG:HH21	46:HH:297:LYS:HB3	1.64	0.63
45:IM:34:GLY:HA3	45:IM:60:LYS:HG3	1.79	0.63
46:IN:152:ILE:HA	46:IN:164:MET:HE1	1.78	0.63
46:MN:209:ASP:OD2	46:MN:213:ARG:NH1	2.31	0.63
46:ND:86:ARG:HA	46:OD:281:TYR:HD2	1.62	0.63
46:NN:16:ILE:HD11	46:NN:229:VAL:HG11	1.81	0.63
45:OK:27:GLU:OE2	45:OK:320:ARG:NH2	2.32	0.63
45:QE:224:TYR:HD1	45:QE:227:LEU:HD12	1.64	0.63
45:QE:345:ASP:OD2	45:QE:346:TRP:N	2.31	0.63
45:QG:328:VAL:HG11	45:QG:353:VAL:HG21	1.80	0.63
45:RM:188:ILE:HG12	45:RM:421:ALA:HB1	1.80	0.63
45:RM:326:LYS:HE2	46:RN:220:PRO:HD2	1.80	0.63
45:SC:108:TYR:HA	45:SC:112:LYS:HE3	1.81	0.63
45:SG:87:PHE:HD1	45:SG:92:LEU:HD11	1.62	0.63
46:TB:139:LEU:HD22	46:TB:170:VAL:HG12	1.81	0.63
46:TJ:97:ALA:HB3	46:TJ:143:THR:HB	1.80	0.63
46:UH:372:THR:HA	46:UH:422:TYR:HE2	1.63	0.63
45:VA:387:VAL:HA	45:VA:390:ARG:NE	2.13	0.63
46:VH:6:HIS:O	46:VH:63:ALA:HA	1.97	0.63
46:VH:139:LEU:HD21	46:VH:168:SER:HB3	1.81	0.63
45:VI:68:LEU:HD13	45:VI:93:ILE:HB	1.81	0.63
45:WC:221:ARG:NH1	46:WD:322:SER:OG	2.32	0.63
46:WH:309:ARG:NH2	46:WH:426:GLN:O	2.28	0.63
26:1W:165:ILE:HD13	46:LD:279:GLN:HE22	1.62	0.63
4:2D:99:ARG:HH12	45:EK:364:PRO:HA	1.64	0.63
14:2V:73:ARG:HG2	46:LF:121:ARG:HH12	1.64	0.63
41:6H:258:THR:N	46:FF:320:ARG:HH22	1.97	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6R:321:MET:O	46:CN:279:GLN:NE2	2.30	0.63
46:AD:190:HIS:CD2	46:AD:414:ASN:HD22	2.17	0.63
45:AI:76:ASP:OD2	46:AJ:46:ARG:NH2	2.32	0.63
46:BN:135:ILE:HG13	46:BN:152:ILE:HD11	1.79	0.63
46:CB:318:ARG:HH12	46:CB:358:PRO:HG3	1.60	0.63
45:CC:339:ARG:O	45:CC:342:GLN:NE2	2.31	0.63
46:DL:256:ASN:HD21	46:DL:350:LYS:HE2	1.61	0.63
45:EC:260:VAL:HB	46:ED:397:TRP:HZ2	1.63	0.63
46:FJ:58:ARG:HH12	46:GJ:280:GLN:HE22	1.44	0.63
46:GN:178:THR:HG22	46:GN:180:VAL:H	1.63	0.63
45:HA:294:SER:O	45:HA:300:ASN:ND2	2.24	0.63
45:II:98:ASP:OD1	45:II:99:ALA:N	2.32	0.63
46:IL:11:GLN:NE2	49:IL:501:GDP:O1A	2.32	0.63
45:IM:288:VAL:HG11	45:IM:327:ASP:HB3	1.80	0.63
45:JI:206:ASN:OD1	47:JI:501:GTP:N2	2.27	0.63
45:KC:127:ASP:OD1	45:KC:128:ASN:N	2.31	0.63
45:KI:9:VAL:HG12	45:KI:68:LEU:HB2	1.80	0.63
45:LE:163:LYS:HA	45:LE:163:LYS:HE3	1.81	0.63
45:NM:174:SER:OG	45:NM:206:ASN:OD1	2.16	0.63
45:QA:56:THR:HG23	45:QA:58:ALA:H	1.64	0.63
46:QD:12:CYS:HA	46:QD:15:GLN:HE21	1.63	0.63
46:QD:86:ARG:HH11	46:QD:88:ASP:HB3	1.64	0.63
45:QM:101:ASN:HA	45:QM:144:GLY:H	1.63	0.63
46:RB:169:VAL:HG12	46:RB:202:ILE:HB	1.80	0.63
46:RH:371:SER:O	46:RH:422:TYR:OH	2.13	0.63
45:RI:284:GLU:HG2	45:RI:286:LEU:HD22	1.81	0.63
45:SC:292:THR:HG21	45:SC:331:SER:HB2	1.81	0.63
46:SL:322:SER:OG	46:SL:325:GLU:OE1	2.17	0.63
45:SM:75:ILE:HG22	45:SM:79:ARG:HE	1.64	0.63
45:SM:193:SER:O	45:SM:197:HIS:ND1	2.30	0.63
45:TE:120:ASP:O	45:TE:124:LYS:HG2	1.98	0.63
45:TI:328:VAL:HG11	45:TI:353:VAL:HG21	1.80	0.63
46:VJ:6:HIS:O	46:VJ:63:ALA:HA	1.98	0.63
46:VL:73:MET:HA	46:VL:76:VAL:HG12	1.80	0.63
46:WH:7:ILE:HG13	46:WH:135:ILE:HG13	1.80	0.63
45:WM:212:ILE:HD11	45:WM:300:ASN:HA	1.80	0.63
11:IS:96:LEU:HD11	46:MF:190:HIS:HE1	1.62	0.63
34:4R:268:GLU:HG3	46:DF:280:GLN:HG3	1.80	0.63
37:5G:209:ARG:HD2	45:LK:427:ALA:HB1	1.81	0.63
34:7R:341:ARG:HH12	34:7R:344:ASN:HA	1.63	0.63
46:AN:396:HIS:HA	46:AN:399:THR:HG22	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CA:206:ASN:OD1	47:CA:501:GTP:N2	2.32	0.63
46:CF:226:ASN:ND2	49:CF:501:GDP:HN1	1.96	0.63
46:DB:135:ILE:HG21	46:DB:152:ILE:HD11	1.81	0.63
46:DL:178:THR:HB	46:DL:181:GLU:HG3	1.80	0.63
45:DM:174:SER:OG	45:DM:207:GLU:OE1	2.14	0.63
46:EB:27:GLU:OE2	46:EB:241:ARG:NH1	2.30	0.63
46:FF:178:THR:HB	46:FF:181:GLU:HG3	1.81	0.63
45:FK:439:THR:HG21	46:FN:390:ARG:HE	1.63	0.63
45:GA:104:ALA:HB2	45:GA:413:MET:HE3	1.79	0.63
45:GK:178:SER:HB2	46:GL:347:ASN:ND2	2.13	0.63
46:HB:86:ARG:HH21	46:HB:87:PRO:HG2	1.64	0.63
46:HJ:22:GLU:HG2	46:HJ:81:PHE:HD1	1.64	0.63
45:IC:174:SER:OG	45:IC:207:GLU:OE1	2.16	0.63
45:IG:326:LYS:NZ	46:IJ:220:PRO:O	2.31	0.63
46:JD:296:ALA:HB1	46:JD:305:PRO:HD2	1.81	0.63
45:JE:195:LEU:HD21	45:JE:264:ARG:HE	1.64	0.63
45:JG:406:HIS:HA	45:JG:409:VAL:HG12	1.81	0.63
45:KA:60:LYS:HD3	45:LA:282:TYR:HE1	1.62	0.63
46:KL:51:TYR:HB3	46:KL:59:TYR:HB3	1.80	0.63
46:LH:316:LEU:HD13	46:LH:352:SER:HB2	1.81	0.63
46:MF:103:LYS:HA	46:MF:107:THR:HG22	1.81	0.63
46:MF:215:LEU:HD21	46:MF:273:LEU:HD12	1.79	0.63
45:MI:292:THR:HG21	45:MI:331:SER:HB2	1.79	0.63
45:MM:31:GLN:HG3	45:MM:37:PRO:HA	1.80	0.63
45:MM:172:TYR:CE2	45:MM:203:MET:HG3	2.34	0.63
45:NA:192:HIS:CE1	45:NA:424:ASP:OD2	2.51	0.63
45:NE:221:ARG:HA	45:NE:221:ARG:NH1	2.13	0.63
46:OD:309:ARG:NH2	46:OD:341:PHE:O	2.31	0.63
45:OE:337:THR:O	45:OE:339:ARG:NH1	2.32	0.63
45:OI:284:GLU:HG2	45:OI:286:LEU:HD22	1.79	0.63
46:QB:273:LEU:H	46:QB:292:GLN:HE22	1.46	0.63
46:QB:327:ASP:HA	46:QB:330:MET:HE1	1.79	0.63
45:QI:204:LEU:HD23	45:QI:231:ILE:HD12	1.81	0.63
45:RG:259:LEU:HB3	45:RG:268:MET:HE3	1.80	0.63
46:RH:114:ASP:OD1	46:RH:115:SER:N	2.32	0.63
45:RK:109:THR:HG22	45:RK:110:ILE:HG23	1.81	0.63
45:SG:108:TYR:HA	45:SG:112:LYS:HE3	1.81	0.63
46:SH:31:ASP:OD1	46:SH:35:THR:N	2.30	0.63
45:TK:91:GLN:HG2	45:TK:121:ARG:HD2	1.81	0.63
45:VA:326:LYS:NZ	46:VD:219:THR:HA	2.13	0.63
46:WD:74:ASP:HA	46:WD:77:ARG:HE	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WD:222:TYR:O	46:WD:226:ASN:ND2	2.26	0.63
46:WH:260:PHE:HB2	46:WH:263:LEU:HD13	1.81	0.63
46:WJ:7:ILE:HG22	46:WJ:64:ILE:HB	1.79	0.63
46:WN:284:LEU:HD11	46:WN:362:LYS:HB3	1.81	0.63
4:2D:224:ARG:NH2	34:5R:492:ILE:HG23	2.14	0.63
36:5B:147:TYR:HE2	45:NG:18:ASN:HB3	1.63	0.63
36:5C:138:ARG:NH2	46:NL:357:PRO:O	2.32	0.63
34:5R:71:LYS:HD2	34:5R:72:ALA:H	1.64	0.63
45:BA:348:PRO:HD3	46:BD:388:MET:HE1	1.80	0.63
46:BD:67:ASP:O	46:BD:92:PHE:HA	1.99	0.63
46:CB:406:MET:O	46:CB:410:GLU:HG2	1.99	0.63
45:DE:108:TYR:O	45:DE:112:LYS:NZ	2.30	0.63
45:EG:259:LEU:HD21	45:EG:316:SER:HB3	1.81	0.63
45:FI:271:SER:OG	45:FI:301:MET:SD	2.57	0.63
46:HF:135:ILE:HG13	46:HF:152:ILE:HD11	1.81	0.63
46:IN:86:ARG:NH2	45:JK:284:GLU:OE2	2.28	0.63
46:JD:108:GLU:HA	46:JD:111:GLU:HG3	1.81	0.63
45:JI:192:HIS:NE2	45:JI:420:GLU:OE2	2.31	0.63
45:JM:151:SER:O	45:JM:154:LEU:HG	1.98	0.63
45:LE:11:GLN:NE2	46:LF:245:GLN:O	2.32	0.63
46:MJ:135:ILE:HG13	46:MJ:152:ILE:HD11	1.81	0.63
45:NI:222:PRO:O	46:NJ:324:LYS:NZ	2.32	0.63
45:NI:328:VAL:HG11	45:NI:353:VAL:HG21	1.79	0.63
46:OF:328:GLU:O	46:OF:332:ASN:ND2	2.32	0.63
45:OG:222:PRO:O	46:OH:324:LYS:NZ	2.25	0.63
45:OI:203:MET:HG3	45:OI:384:ILE:HD11	1.80	0.63
46:OL:294:PHE:HE2	46:OL:333:VAL:HG11	1.64	0.63
45:PA:389:SER:O	45:PA:393:HIS:ND1	2.27	0.63
45:PG:326:LYS:NZ	46:PJ:219:THR:HA	2.14	0.63
46:QD:266:PHE:CE1	46:QD:370:ASN:HB2	2.34	0.63
46:QH:31:ASP:OD2	46:QH:35:THR:N	2.31	0.63
45:RC:121:ARG:HH12	45:RC:124:LYS:HG3	1.63	0.63
45:RE:326:LYS:HZ1	46:RF:208:TYR:HB3	1.63	0.63
46:RH:194:GLU:OE1	46:RH:414:ASN:ND2	2.29	0.63
46:SB:317:PHE:HB3	46:SB:363:MET:HE1	1.81	0.63
46:SD:318:ARG:HE	46:SD:358:PRO:HG3	1.63	0.63
45:SI:209:ILE:HD12	45:SI:227:LEU:HD22	1.81	0.63
46:SL:375:GLN:HE22	46:SL:423:GLN:HB2	1.64	0.63
46:TD:1:MET:HG3	46:TD:2:ARG:HH11	1.63	0.63
45:TG:156:ARG:HG3	45:TG:156:ARG:HH11	1.63	0.63
46:TL:46:ARG:NH2	45:TM:76:ASP:OD2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:139:LEU:HD22	46:TN:170:VAL:HG12	1.79	0.63
46:UF:282:ARG:NH2	46:UF:292:GLN:OE1	2.32	0.63
46:UJ:86:ARG:HH22	46:VJ:278:SER:HA	1.63	0.63
46:VD:309:ARG:NH2	46:VD:426:GLN:O	2.31	0.63
45:VK:254:GLU:HG2	46:VN:98:GLY:HA2	1.81	0.63
21:1L:41:LYS:NZ	46:BJ:39:ASP:O	2.32	0.62
25:1R:454:ARG:HH21	46:FD:219:THR:HG22	1.62	0.62
31:2I:95:LYS:N	46:FF:125:GLU:OE2	2.27	0.62
21:2L:525:LEU:HD12	46:BN:320:ARG:HG2	1.80	0.62
15:2X:42:LYS:NZ	45:LI:56:THR:O	2.24	0.62
41:6H:274:GLU:HG2	41:6H:275:LYS:HD3	1.81	0.62
46:AF:200:MET:HE3	46:AF:268:ILE:HG21	1.81	0.62
45:BA:105:ARG:NH2	45:BA:109:THR:OG1	2.23	0.62
45:BA:173:PRO:O	45:BA:390:ARG:NH2	2.32	0.62
46:BF:262:ARG:NH1	46:BF:421:GLU:OE2	2.32	0.62
45:CA:27:GLU:HB3	45:CA:361:THR:HG21	1.81	0.62
46:DD:31:ASP:OD1	46:DD:35:THR:N	2.29	0.62
46:DF:215:LEU:HD21	46:DF:273:LEU:HD12	1.81	0.62
46:EB:100:ASN:ND2	46:EB:401:GLU:OE1	2.31	0.62
46:ED:166:THR:OG1	46:ED:199:CYS:SG	2.55	0.62
46:EJ:86:ARG:HH22	46:FJ:282:ARG:HA	1.63	0.62
45:FA:398:MET:HE3	46:FB:345:ILE:HD12	1.80	0.62
45:FC:151:SER:O	45:FC:155:GLU:HG3	1.99	0.62
45:FC:210:TYR:CG	46:FD:324:LYS:HD3	2.34	0.62
46:FL:190:HIS:CE1	46:FL:414:ASN:HD22	2.16	0.62
46:GJ:226:ASN:HD21	49:GJ:501:GDP:HN1	1.45	0.62
46:GL:31:ASP:OD2	46:GL:37:HIS:ND1	2.32	0.62
45:HI:121:ARG:HH12	45:HI:124:LYS:HD2	1.64	0.62
45:HI:329:ASN:ND2	46:HL:175:VAL:HG12	2.14	0.62
45:IE:71:GLU:OE2	46:IF:2:ARG:NH2	2.31	0.62
46:IF:287:PRO:HA	46:IF:329:GLN:HE22	1.63	0.62
46:IH:97:ALA:HA	46:IH:103:LYS:HD2	1.80	0.62
45:JA:116:ASP:OD1	45:JA:117:LEU:N	2.31	0.62
45:JI:259:LEU:HD21	45:JI:316:SER:HB2	1.80	0.62
45:OG:221:ARG:HA	46:OH:324:LYS:HZ1	1.64	0.62
45:OM:9:VAL:HG12	45:OM:68:LEU:HB2	1.80	0.62
46:QH:6:HIS:CD2	46:QH:8:GLN:HB2	2.34	0.62
46:RF:268:ILE:HG13	46:RF:300:MET:HE2	1.81	0.62
46:RF:323:THR:HG1	45:RG:210:TYR:HH	1.46	0.62
46:RH:134:GLN:NE2	46:RH:233:MET:SD	2.69	0.62
46:RJ:324:LYS:HB2	45:RK:221:ARG:NH1	2.10	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:52:ASN:OD1	46:RL:62:ARG:NH2	2.32	0.62
45:SE:108:TYR:HA	45:SE:112:LYS:HE3	1.80	0.62
46:SF:107:THR:OG1	46:SF:108:GLU:OE1	2.17	0.62
45:TI:287:SER:HA	45:TI:373:ARG:HH12	1.63	0.62
46:TN:145:SER:HB2	46:TN:188:SER:HB3	1.81	0.62
45:VA:396:ASP:OD1	45:VA:422:ARG:NH1	2.32	0.62
45:VE:55:GLU:HG3	45:VE:57:GLY:H	1.64	0.62
45:VE:239:THR:HG23	45:VE:243:ARG:HH21	1.64	0.62
45:VI:223:THR:HG23	45:VI:225:THR:H	1.64	0.62
45:VM:403:ALA:HA	46:VN:260:PHE:HE1	1.63	0.62
45:WC:306:ASP:OD1	45:WC:308:ARG:NH2	2.32	0.62
46:WD:221:THR:HG23	46:WD:224:ASP:H	1.63	0.62
8:1H:187:LEU:HG	45:GG:58:ALA:HB1	1.80	0.62
31:2I:101:GLU:O	46:GF:306:ARG:NH2	2.32	0.62
37:5G:173:LYS:HG3	37:5G:174:ALA:H	1.63	0.62
46:BD:87:PRO:HA	46:BD:90:PHE:HD2	1.64	0.62
46:BF:91:VAL:HG21	46:BF:116:VAL:HB	1.80	0.62
45:BI:69:ASP:OD1	45:BI:70:LEU:N	2.31	0.62
45:DM:55:GLU:HG3	45:DM:57:GLY:H	1.64	0.62
46:EF:258:ILE:HD11	45:EG:407:TRP:HZ2	1.64	0.62
46:EH:316:LEU:HD13	46:EH:352:SER:HB2	1.80	0.62
45:FC:2:ARG:HB3	45:FC:133:GLN:HE21	1.64	0.62
45:FI:407:TRP:HZ2	46:FJ:258:ILE:HD11	1.63	0.62
45:FK:244:PHE:HB2	45:FK:356:ASN:HD21	1.65	0.62
45:FK:407:TRP:HZ2	46:FL:258:ILE:HD11	1.64	0.62
46:GB:100:ASN:ND2	46:GB:401:GLU:OE1	2.32	0.62
46:GB:139:LEU:HD22	46:GB:170:VAL:HG12	1.80	0.62
45:GI:69:ASP:OD1	45:GI:70:LEU:N	2.32	0.62
46:GL:200:MET:HG2	46:GL:266:PHE:HB2	1.80	0.62
46:HD:175:VAL:HG12	46:HD:205:GLU:HG2	1.81	0.62
45:HE:352:LYS:HZ1	46:HH:179:VAL:N	1.96	0.62
46:HL:226:ASN:HD21	49:HL:501:GDP:HN1	1.46	0.62
45:IK:71:GLU:OE2	46:IL:2:ARG:NH2	2.32	0.62
45:KA:326:LYS:HE2	46:KD:220:PRO:HG2	1.81	0.62
46:KL:222:TYR:O	46:KL:226:ASN:ND2	2.24	0.62
45:MG:64:ARG:NH1	45:MG:129:CYS:SG	2.72	0.62
46:NN:7:ILE:HG23	46:NN:135:ILE:HG12	1.82	0.62
46:ON:139:LEU:HD13	46:ON:168:SER:HB3	1.81	0.62
45:PI:80:THR:O	45:PI:84:ARG:NH2	2.32	0.62
46:PJ:222:TYR:O	46:PJ:226:ASN:ND2	2.21	0.62
46:PN:83:GLN:O	46:QL:281:TYR:OH	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:68:LEU:HB3	46:RD:96:GLY:HA2	1.81	0.62
46:RD:166:THR:HG1	46:RD:199:CYS:HG	1.36	0.62
45:RG:65:ALA:O	45:RG:91:GLN:NE2	2.31	0.62
45:RM:280:LYS:HE2	45:RM:283:HIS:HD2	1.63	0.62
46:TD:309:ARG:NH2	46:TD:426:GLN:O	2.26	0.62
45:TE:108:TYR:HA	45:TE:112:LYS:HE3	1.81	0.62
45:TE:402:ARG:HH12	45:TE:406:HIS:H	1.48	0.62
46:TL:309:ARG:NH2	46:TL:426:GLN:O	2.29	0.62
46:TN:207:LEU:HB3	46:TN:225:LEU:HD22	1.81	0.62
46:UN:282:ARG:NH2	46:UN:292:GLN:OE1	2.32	0.62
45:VG:221:ARG:NH1	46:VH:324:LYS:HG2	2.14	0.62
45:VG:258:ASN:HD22	46:VJ:179:VAL:HG22	1.63	0.62
46:VJ:148:GLY:O	46:VJ:152:ILE:HG12	2.00	0.62
45:VK:90:GLU:OE1	45:VK:121:ARG:NH1	2.32	0.62
46:WB:135:ILE:HG13	46:WB:152:ILE:HD11	1.80	0.62
46:WL:143:THR:OG1	49:WL:501:GDP:O1B	2.17	0.62
4:1D:187:PHE:HB2	46:FF:322:SER:HB3	1.80	0.62
31:2I:140:ILE:HD11	46:FD:118:ASP:HB3	1.81	0.62
26:2W:251:ARG:NH1	34:6R:17:PHE:O	2.30	0.62
15:4X:1:MET:SD	15:4X:1:MET:N	2.67	0.62
37:5F:116:TYR:CE1	45:NE:85:GLN:HA	2.34	0.62
45:AM:91:GLN:HG2	45:AM:121:ARG:HD2	1.81	0.62
45:BC:396:ASP:OD1	45:BC:422:ARG:NH1	2.32	0.62
46:BH:290:THR:HA	46:BH:293:MET:HG2	1.82	0.62
46:DB:86:ARG:NH2	46:EB:277:GLY:O	2.32	0.62
46:DD:7:ILE:HG22	46:DD:64:ILE:HG12	1.81	0.62
46:DD:164:MET:HB2	46:DD:197:ASP:H	1.64	0.62
45:DI:108:TYR:O	45:DI:112:LYS:NZ	2.30	0.62
46:EN:19:LYS:NZ	46:EN:223:GLY:O	2.33	0.62
45:FK:184:PRO:O	45:FK:188:ILE:HG12	1.99	0.62
46:GF:135:ILE:HG13	46:GF:152:ILE:HD11	1.81	0.62
46:GF:392:LYS:HA	46:GF:395:LEU:HD12	1.80	0.62
46:GJ:371:SER:O	46:GJ:422:TYR:OH	2.17	0.62
46:GL:372:THR:HA	46:GL:422:TYR:HE2	1.63	0.62
45:IC:419:SER:O	45:IC:423:GLU:HG2	1.99	0.62
46:JB:376:GLU:O	46:JB:380:ARG:HG2	1.98	0.62
45:JG:188:ILE:HG23	45:JG:189:LEU:HD12	1.80	0.62
45:LG:84:ARG:HG3	45:LG:85:GLN:HG2	1.81	0.62
45:LK:215:ARG:NH2	45:LK:299:ALA:O	2.32	0.62
46:MH:1:MET:HG2	46:MH:2:ARG:N	2.14	0.62
46:MH:178:THR:HG22	46:MH:180:VAL:H	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NB:362:LYS:HE3	46:NB:363:MET:SD	2.38	0.62
46:ND:324:LYS:HG3	46:ND:325:GLU:N	2.15	0.62
45:NE:294:SER:HA	45:NE:297:GLU:OE1	2.00	0.62
45:NG:352:LYS:HE2	46:NJ:179:VAL:H	1.64	0.62
45:NI:226:ASN:ND2	45:NI:367:ASP:OD2	2.32	0.62
45:NI:352:LYS:HE3	46:NL:178:THR:HA	1.81	0.62
45:OG:120:ASP:OD2	45:OG:124:LYS:NZ	2.32	0.62
46:PF:248:SER:HA	46:PF:252:LYS:HD2	1.82	0.62
46:QF:258:ILE:HG13	45:QG:407:TRP:HE1	1.64	0.62
46:QF:318:ARG:HB2	46:QF:364:ALA:HB3	1.81	0.62
45:RA:33:ASP:HB2	45:RA:35:GLN:HE22	1.64	0.62
46:RF:183:TYR:HA	46:RF:385:PHE:HE1	1.63	0.62
46:RH:190:HIS:CE1	46:RH:414:ASN:HD22	2.17	0.62
46:RH:246:LEU:HA	45:RI:11:GLN:HE22	1.65	0.62
46:RH:257:LEU:HD11	46:RH:314:SER:HB2	1.80	0.62
46:SF:304:ASP:OD2	46:SF:306:ARG:NH1	2.33	0.62
45:UM:399:TYR:O	45:UM:402:ARG:NH1	2.32	0.62
46:VB:235:GLY:HA3	46:VB:366:THR:HG21	1.81	0.62
46:VH:20:PHE:CZ	46:VH:24:ILE:HD11	2.34	0.62
45:VK:55:GLU:HG3	45:VK:57:GLY:H	1.63	0.62
45:VM:60:LYS:NZ	45:VM:85:GLN:O	2.28	0.62
46:WH:212:PHE:HD1	46:WH:213:ARG:HD3	1.64	0.62
46:WJ:6:HIS:CD2	46:WJ:134:GLN:HE22	2.16	0.62
45:WK:174:SER:OG	45:WK:207:GLU:OE1	2.12	0.62
20:2K:430:GLN:HA	45:GE:282:TYR:HD2	1.63	0.62
12:2T:229:THR:OG1	45:MG:431:ASP:OD2	2.17	0.62
23:3O:246:GLU:HB2	46:UN:276:ARG:NH2	2.13	0.62
35:5S:74:LEU:HB3	35:5S:76:ILE:HG12	1.80	0.62
45:AA:285:GLN:NE2	45:MA:55:GLU:O	2.32	0.62
45:AI:226:ASN:ND2	45:AI:367:ASP:OD2	2.31	0.62
45:AM:11:GLN:HE21	45:AM:15:GLN:HE22	1.48	0.62
45:BC:221:ARG:HA	46:BD:324:LYS:HZ1	1.63	0.62
46:BJ:68:LEU:HB3	46:BJ:96:GLY:HA2	1.81	0.62
46:CD:213:ARG:HH21	46:CD:297:LYS:HB3	1.64	0.62
46:CL:73:MET:HA	46:CL:76:VAL:HG12	1.82	0.62
45:DK:326:LYS:NZ	46:DL:220:PRO:O	2.29	0.62
45:EI:210:TYR:HE1	45:EI:227:LEU:HD11	1.64	0.62
46:EL:136:THR:HG22	46:EL:167:PHE:HD1	1.64	0.62
46:FH:207:LEU:HB3	46:FH:225:LEU:HD22	1.82	0.62
46:GD:322:SER:OG	46:GD:325:GLU:OE1	2.16	0.62
45:GI:292:THR:HG21	45:GI:331:SER:HB3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:200:MET:HG3	46:GN:266:PHE:HB2	1.81	0.62
46:IH:6:HIS:CD2	46:IH:134:GLN:HE22	2.15	0.62
45:II:210:TYR:CZ	46:IJ:324:LYS:HD3	2.34	0.62
46:JB:386:THR:HB	46:JB:390:ARG:HH12	1.64	0.62
46:KF:3:GLU:HG3	46:KF:62:ARG:NH1	2.15	0.62
46:KH:16:ILE:HD12	46:KH:229:VAL:HG11	1.81	0.62
45:KK:56:THR:HG23	45:KK:58:ALA:H	1.64	0.62
45:LA:338:LYS:HZ2	45:LA:340:THR:H	1.47	0.62
46:LJ:135:ILE:HG13	46:LJ:152:ILE:HD11	1.80	0.62
46:MB:114:ASP:OD1	46:MB:115:SER:N	2.33	0.62
46:NB:58:ARG:NH2	46:OB:280:GLN:O	2.33	0.62
46:NL:420:SER:O	46:NL:424:GLN:NE2	2.33	0.62
46:NN:48:ASN:O	46:NN:62:ARG:NH1	2.29	0.62
46:PH:130:LEU:HG	46:PH:162:ARG:HD2	1.82	0.62
45:PK:108:TYR:O	45:PK:112:LYS:NZ	2.29	0.62
46:PN:376:GLU:HA	46:PN:379:LYS:HG2	1.81	0.62
46:QN:222:TYR:O	46:QN:226:ASN:ND2	2.29	0.62
45:RK:31:GLN:HE22	45:RK:37:PRO:HG3	1.62	0.62
45:RM:402:ARG:HD2	45:RM:402:ARG:O	1.99	0.62
46:SF:46:ARG:NH2	45:SG:76:ASP:OD2	2.32	0.62
45:SM:32:PRO:O	45:SM:85:GLN:NE2	2.33	0.62
46:TF:32:PRO:HG3	46:TF:81:PHE:HE1	1.64	0.62
46:UB:67:ASP:O	46:UB:92:PHE:HA	1.99	0.62
45:UE:55:GLU:HG3	45:UE:57:GLY:H	1.64	0.62
46:UF:4:ILE:HD11	46:UF:131:GLN:HB2	1.80	0.62
46:UN:68:LEU:HD12	46:UN:93:GLY:HA3	1.81	0.62
45:VA:207:GLU:HA	45:VA:210:TYR:HD2	1.63	0.62
46:VB:68:LEU:HD12	46:VB:93:GLY:HA3	1.80	0.62
45:VC:27:GLU:OE1	45:VC:243:ARG:NH1	2.33	0.62
46:WF:207:LEU:HB3	46:WF:225:LEU:HD22	1.82	0.62
19:IJ:158:GLN:OE1	39:6F:127:TRP:NE1	2.31	0.62
21:2L:901:LYS:HD2	46:CJ:320:ARG:HH22	1.64	0.62
13:3U:124:ASP:OD1	46:WN:276:ARG:NH2	2.32	0.62
37:5E:123:ARG:NH2	45:OA:372:MET:HA	2.13	0.62
34:6R:259:ASN:HB2	34:6R:351:ASN:HB2	1.80	0.62
34:6R:469:LYS:HG3	46:EN:78:ALA:HB2	1.80	0.62
34:7R:493:GLY:N	34:7R:505:LEU:O	2.26	0.62
46:AD:44:LEU:HA	46:AD:47:ILE:HB	1.81	0.62
46:AL:135:ILE:HG13	46:AL:152:ILE:HD11	1.81	0.62
46:AL:372:THR:HA	46:AL:422:TYR:HE2	1.61	0.62
46:BD:67:ASP:OD1	46:BD:68:LEU:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:321:MET:HB2	45:CK:221:ARG:HH22	1.64	0.62
45:DA:36:MET:HB3	45:DA:61:HIS:HE1	1.63	0.62
46:DD:5:VAL:HG12	46:DD:62:ARG:HD3	1.80	0.62
46:DD:292:GLN:O	46:DD:298:ASN:ND2	2.33	0.62
45:DE:258:ASN:HD21	46:DF:178:THR:HG23	1.64	0.62
46:DL:86:ARG:HH12	46:EL:278:SER:HA	1.63	0.62
46:DL:396:HIS:HA	46:DL:399:THR:HG22	1.81	0.62
46:ED:67:ASP:O	46:ED:92:PHE:HA	1.98	0.62
46:EF:73:MET:HA	46:EF:76:VAL:HG12	1.82	0.62
46:EF:273:LEU:H	46:EF:292:GLN:HE22	1.46	0.62
46:EN:209:ASP:O	46:EN:213:ARG:HG2	1.99	0.62
45:FG:55:GLU:HG3	45:FG:57:GLY:H	1.64	0.62
45:HE:69:ASP:OD1	45:HE:70:LEU:N	2.32	0.62
46:IH:248:SER:HA	46:IH:252:LYS:HG3	1.80	0.62
46:KD:294:PHE:HD1	46:KD:333:VAL:HG21	1.65	0.62
45:KG:71:GLU:OE1	46:KH:247:ASN:ND2	2.33	0.62
46:KJ:73:MET:HA	46:KJ:76:VAL:HG12	1.81	0.62
45:KK:384:ILE:HB	45:KK:432:TYR:HE2	1.64	0.62
46:KL:273:LEU:H	46:KL:292:GLN:HE22	1.45	0.62
45:LA:123:ARG:NH2	45:LA:161:TYR:HE2	1.96	0.62
45:LC:90:GLU:OE2	45:LC:121:ARG:NH1	2.33	0.62
45:LC:210:TYR:HH	46:LD:323:THR:HG1	1.47	0.62
45:LE:93:ILE:HD11	45:LE:121:ARG:HG3	1.81	0.62
45:NK:96:LYS:HB3	46:NL:2:ARG:HH12	1.63	0.62
45:NK:285:GLN:O	45:NK:373:ARG:NH2	2.28	0.62
45:NM:222:PRO:HD2	46:NN:324:LYS:HE3	1.81	0.62
46:OD:214:THR:O	46:OD:275:SER:OG	2.18	0.62
46:OD:371:SER:O	46:OD:422:TYR:OH	2.13	0.62
45:OE:2:ARG:HB2	45:OE:133:GLN:HE22	1.65	0.62
46:OJ:143:THR:O	46:OJ:147:MET:HG2	1.99	0.62
45:OK:221:ARG:HH21	46:OL:322:SER:N	1.97	0.62
46:PF:48:ASN:O	46:PF:62:ARG:NH1	2.32	0.62
46:PN:125:GLU:OE1	46:QL:336:LYS:NZ	2.30	0.62
45:RG:360:PRO:O	45:RG:370:LYS:NZ	2.31	0.62
46:RH:99:ASN:HA	46:RH:142:GLY:H	1.63	0.62
45:SC:244:PHE:HB2	45:SC:356:ASN:HD21	1.64	0.62
46:SD:58:ARG:NH2	46:TD:280:GLN:OE1	2.33	0.62
46:SF:42:LEU:HA	46:SF:45:GLU:HG3	1.81	0.62
46:SH:51:TYR:O	46:SH:62:ARG:NH2	2.32	0.62
45:SI:90:GLU:O	45:SI:121:ARG:NH2	2.33	0.62
45:SM:284:GLU:HG2	45:SM:286:LEU:HD22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TE:161:TYR:HB3	45:TE:164:LYS:HE2	1.80	0.62
45:TK:116:ASP:OD1	45:TK:117:LEU:N	2.33	0.62
46:UB:285:THR:HB	46:UB:287:PRO:HD2	1.81	0.62
46:UF:222:TYR:O	46:UF:226:ASN:ND2	2.27	0.62
45:VC:133:GLN:HB3	45:VC:252:ILE:HD11	1.81	0.62
45:VG:11:GLN:NE2	47:VG:501:GTP:O3A	2.31	0.62
45:VK:435:VAL:HA	46:VN:391:ARG:NH2	2.14	0.62
45:WA:111:GLY:O	45:WA:115:VAL:HG13	1.99	0.62
46:WF:1:MET:N	46:WF:3:GLU:OE2	2.29	0.62
46:WJ:49:VAL:HG11	46:WJ:241:ARG:HG2	1.81	0.62
5:OE:141:GLN:OE1	34:7R:497:GLN:NE2	2.32	0.62
26:1W:239:ARG:HG2	46:LB:279:GLN:HE21	1.63	0.62
45:AE:251:ASP:OD1	45:AE:252:ILE:N	2.32	0.62
46:AF:114:ASP:OD1	46:AF:115:SER:N	2.32	0.62
46:AH:226:ASN:HD21	49:AH:501:GDP:HN1	1.46	0.62
45:AK:145:THR:OG1	47:AK:501:GTP:O1B	2.17	0.62
46:AL:48:ASN:O	46:AL:62:ARG:NH1	2.32	0.62
45:BG:181:VAL:N	46:BH:350:LYS:HZ1	1.97	0.62
46:CD:309:ARG:HE	46:CD:342:VAL:HA	1.64	0.62
46:CF:174:LYS:HE3	46:CF:174:LYS:HA	1.81	0.62
45:CG:207:GLU:HA	45:CG:210:TYR:HB2	1.80	0.62
46:DF:273:LEU:H	46:DF:292:GLN:HE22	1.47	0.62
46:FH:222:TYR:O	46:FH:226:ASN:ND2	2.26	0.62
45:GG:132:LEU:O	45:GG:164:LYS:NZ	2.31	0.62
46:IB:97:ALA:HB3	46:IB:143:THR:HB	1.82	0.62
46:JB:133:PHE:HB2	46:JB:164:MET:HG2	1.80	0.62
45:JG:439:THR:HG21	46:JJ:390:ARG:HH22	1.65	0.62
46:KD:113:ILE:HD13	46:KD:150:LEU:HD22	1.81	0.62
46:KH:272:PRO:HB2	46:KH:282:ARG:HH12	1.64	0.62
45:KI:288:VAL:HG11	45:KI:327:ASP:HB3	1.81	0.62
45:LE:124:LYS:HE3	45:LE:124:LYS:HA	1.81	0.62
45:NA:88:HIS:NE2	45:OA:284:GLU:OE2	2.33	0.62
46:OH:237:THR:OG1	46:OH:241:ARG:NH2	2.32	0.62
45:PA:133:GLN:HB3	45:PA:252:ILE:HG21	1.82	0.62
45:PC:206:ASN:OD1	47:PD:501:GTP:N2	2.32	0.62
46:PF:1:MET:HG2	46:PF:2:ARG:H	1.65	0.62
46:PL:68:LEU:HB3	46:PL:96:GLY:HA2	1.80	0.62
46:RD:309:ARG:NH2	46:RD:426:GLN:O	2.22	0.62
46:RL:19:LYS:O	46:RL:22:GLU:HG3	1.99	0.62
46:SD:221:THR:HG23	46:SD:224:ASP:H	1.65	0.62
46:SH:21:TRP:CZ3	46:SH:61:PRO:HB3	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TF:156:ARG:HG3	46:TF:195:ASN:HB3	1.80	0.62
46:TF:322:SER:HB3	45:TG:221:ARG:HG3	1.81	0.62
45:TM:348:PRO:HG2	46:TN:384:GLN:HG3	1.79	0.62
46:UD:226:ASN:HD21	49:UD:501:GDP:HN1	1.46	0.62
45:UI:248:LEU:HD13	45:UI:355:ILE:HD13	1.81	0.62
46:UN:113:ILE:HD11	46:UN:151:LEU:HB3	1.81	0.62
46:VB:200:MET:HG3	46:VB:266:PHE:HB2	1.81	0.62
46:VN:135:ILE:HG13	46:VN:152:ILE:HD11	1.80	0.62
46:WL:285:THR:N	46:WL:288:GLU:OE2	2.31	0.62
45:DC:101:ASN:HA	45:DC:144:GLY:H	1.63	0.62
2:OB:241:LEU:CD1	46:JL:227:HIS:HE1	2.13	0.62
22:1M:288:LEU:HG	39:6F:56:LEU:HD22	1.81	0.62
25:1R:418:ARG:HG3	45:EC:40:LYS:HE2	1.80	0.62
15:1X:81:ARG:NE	46:MF:276:ARG:HE	1.97	0.62
31:2I:138:VAL:H	46:FD:121:ARG:HH12	1.47	0.62
20:2K:291:GLN:HE22	46:FL:55:THR:HB	1.62	0.62
46:AB:257:LEU:HD11	46:AB:314:SER:HB3	1.80	0.62
46:AH:135:ILE:HG13	46:AH:152:ILE:HD11	1.81	0.62
45:BE:204:LEU:HD13	45:BE:231:ILE:HD12	1.82	0.62
45:CC:271:SER:HB2	45:CC:377:MET:HG2	1.80	0.62
45:CG:324:VAL:HG11	45:CG:326:LYS:HE2	1.82	0.62
46:ED:31:ASP:OD1	46:ED:35:THR:N	2.28	0.62
45:FE:244:PHE:HB2	45:FE:356:ASN:HD21	1.64	0.62
46:FJ:113:ILE:HD13	46:FJ:154:LYS:HZ2	1.64	0.62
46:GJ:31:ASP:OD1	46:GJ:35:THR:N	2.29	0.62
46:GN:139:LEU:HD22	46:GN:170:VAL:HG12	1.82	0.62
46:JD:410:GLU:OE1	46:ND:340:TYR:OH	2.16	0.62
46:JJ:63:ALA:O	46:JJ:89:ASN:ND2	2.33	0.62
45:JK:253:THR:OG1	45:JK:256:GLN:NE2	2.32	0.62
45:JM:69:ASP:HB3	45:JM:75:ILE:HD11	1.80	0.62
46:JN:235:GLY:HA3	46:JN:366:THR:HG21	1.81	0.62
45:KM:11:GLN:NE2	46:KN:245:GLN:O	2.32	0.62
46:MJ:114:ASP:OD1	46:MJ:115:SER:N	2.33	0.62
46:ML:392:LYS:HD3	46:ML:395:LEU:HD23	1.81	0.62
46:NF:12:CYS:O	46:NF:16:ILE:HG12	1.99	0.62
46:NH:207:LEU:HD12	46:NH:225:LEU:HD23	1.82	0.62
46:OJ:135:ILE:HG13	46:OJ:152:ILE:HD11	1.82	0.62
46:PH:63:ALA:O	46:PH:89:ASN:ND2	2.32	0.62
46:PL:236:VAL:HG13	46:PL:237:THR:HG23	1.81	0.62
45:PM:31:GLN:NE2	45:PM:33:ASP:OD1	2.32	0.62
45:QA:31:GLN:HG3	45:QA:37:PRO:HD3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QC:326:LYS:NZ	46:QD:220:PRO:O	2.30	0.62
45:RA:51:THR:HG21	45:RA:243:ARG:HH21	1.64	0.62
45:RG:188:ILE:HD12	45:RG:425:LEU:HD11	1.80	0.62
45:SE:284:GLU:HG2	45:SE:286:LEU:HD12	1.81	0.62
46:SH:313:ALA:HB3	46:SH:349:ILE:HG12	1.81	0.62
45:SI:277:SER:O	45:SI:281:ALA:N	2.33	0.62
45:TE:11:GLN:NE2	47:TE:501:GTP:O3A	2.33	0.62
45:TK:328:VAL:HG11	45:TK:353:VAL:HG21	1.81	0.62
45:UC:352:LYS:HZ3	46:UD:178:THR:HA	1.63	0.62
45:VE:64:ARG:NH1	45:VE:129:CYS:SG	2.73	0.62
45:VG:167:LEU:HD13	45:VG:200:VAL:HB	1.81	0.62
46:VJ:113:ILE:HD13	46:VJ:150:LEU:HD22	1.81	0.62
46:WF:68:LEU:HB3	46:WF:96:GLY:HA2	1.82	0.62
45:WG:326:LYS:NZ	46:WJ:220:PRO:O	2.24	0.62
46:WJ:88:ASP:OD1	46:WJ:89:ASN:N	2.33	0.62
46:WN:31:ASP:OD2	46:WN:33:THR:OG1	2.17	0.62
19:1J:273:TRP:HE1	46:IL:276:ARG:HH21	1.48	0.62
21:1L:524:ARG:NH1	46:BF:358:PRO:O	2.32	0.62
26:1W:118:GLY:HA2	46:LF:276:ARG:HE	1.64	0.62
15:1X:78:ASN:HA	46:MF:276:ARG:HD2	1.82	0.62
30:2H:196:SER:HB3	46:AD:40:SER:HB2	1.81	0.62
34:6R:318:TYR:HE2	46:CN:273:LEU:HA	1.64	0.62
45:AM:98:ASP:O	45:AM:105:ARG:NH1	2.32	0.62
45:BC:111:GLY:O	45:BC:115:VAL:HG13	1.98	0.62
45:BC:223:THR:HG23	45:BC:225:THR:H	1.65	0.62
46:BD:309:ARG:NH1	46:BD:343:GLU:OE1	2.33	0.62
46:BH:135:ILE:HG13	46:BH:152:ILE:HD11	1.82	0.62
45:BI:27:GLU:OE2	45:BI:361:THR:OG1	2.13	0.62
46:BN:143:THR:O	46:BN:147:MET:HG2	1.98	0.62
46:CD:67:ASP:O	46:CD:92:PHE:HA	2.00	0.62
45:CM:244:PHE:HB2	45:CM:356:ASN:HD21	1.63	0.62
45:DM:259:LEU:O	45:DM:380:ASN:ND2	2.33	0.62
46:EJ:54:ALA:HA	46:FJ:283:ALA:HB2	1.81	0.62
46:FH:292:GLN:HG2	46:FH:298:ASN:HD22	1.65	0.62
45:FK:262:TYR:HB2	45:FK:265:ILE:HG22	1.81	0.62
46:FN:48:ASN:O	46:FN:62:ARG:NH1	2.31	0.62
45:GG:298:PRO:HB3	45:GG:308:ARG:NH1	2.14	0.62
46:HB:135:ILE:HG13	46:HB:152:ILE:HD11	1.81	0.62
45:IA:251:ASP:OD1	45:IA:252:ILE:N	2.33	0.62
46:IF:316:LEU:HD13	46:IF:352:SER:HB2	1.82	0.62
45:JE:222:PRO:HD2	46:JF:324:LYS:HE3	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KA:127:ASP:OD1	45:KA:128:ASN:N	2.33	0.62
46:KD:51:TYR:HB3	46:KD:59:TYR:HB3	1.80	0.62
45:KE:406:HIS:HA	45:KE:409:VAL:HG12	1.82	0.62
46:KF:257:LEU:HD21	46:KF:314:SER:HB2	1.81	0.62
46:KH:62:ARG:NH1	46:KH:127:CYS:SG	2.72	0.62
46:KJ:256:ASN:HD22	46:KJ:350:LYS:HD2	1.63	0.62
46:KL:257:LEU:HD21	46:KL:314:SER:HB2	1.82	0.62
45:LI:251:ASP:H	45:LI:254:GLU:HB2	1.65	0.62
46:LL:316:LEU:HD13	46:LL:352:SER:HB2	1.81	0.62
46:MB:133:PHE:HB2	46:MB:164:MET:SD	2.40	0.62
45:MG:241:SER:OG	45:MG:250:VAL:O	2.18	0.62
45:MK:116:ASP:OD1	45:MK:117:LEU:N	2.31	0.62
45:NM:11:GLN:HG2	45:NM:15:GLN:HE22	1.65	0.62
45:OE:155:GLU:OE2	45:OE:156:ARG:NH1	2.31	0.62
45:QA:226:ASN:ND2	45:QA:367:ASP:OD2	2.32	0.62
45:QG:133:GLN:HB3	45:QG:252:ILE:HD11	1.81	0.62
45:RC:274:PRO:HD3	45:RC:291:ILE:HD11	1.81	0.62
45:RG:404:PHE:HD1	45:RG:407:TRP:HZ3	1.48	0.62
46:RJ:19:LYS:O	46:RJ:22:GLU:HG3	2.00	0.62
46:RJ:54:ALA:HA	46:SJ:283:ALA:HB2	1.80	0.62
46:RJ:63:ALA:O	46:RJ:89:ASN:ND2	2.31	0.62
46:SF:148:GLY:O	46:SF:152:ILE:HG12	1.99	0.62
45:SM:164:LYS:O	45:SM:166:LYS:NZ	2.33	0.62
46:SN:299:MET:HG3	46:SN:301:CYS:H	1.63	0.62
45:TC:155:GLU:OE2	45:TC:193:SER:OG	2.18	0.62
45:TM:101:ASN:HA	45:TM:144:GLY:H	1.64	0.62
46:UF:73:MET:HA	46:UF:76:VAL:HG12	1.82	0.62
45:UM:328:VAL:HG11	45:UM:353:VAL:HG21	1.80	0.62
46:VN:190:HIS:CD2	46:VN:411:ALA:HA	2.35	0.62
46:WB:284:LEU:HD11	46:WB:362:LYS:HB3	1.82	0.62
45:WI:406:HIS:HA	45:WI:409:VAL:HG12	1.81	0.62
46:WJ:45:GLU:OE2	46:WJ:46:ARG:NH2	2.33	0.62
46:WN:100:ASN:ND2	46:WN:401:GLU:OE1	2.31	0.62
7:1G:103:THR:HG21	46:JB:243:PRO:HB2	1.81	0.62
11:1S:46:TRP:CH2	45:WC:89:PRO:HD3	2.35	0.62
35:4S:81:HIS:NE2	45:WA:164:LYS:HG2	2.15	0.62
34:5R:321:MET:HB2	46:CJ:279:GLN:HE22	1.64	0.62
45:BG:76:ASP:OD2	46:BH:46:ARG:NH2	2.33	0.62
46:CB:309:ARG:NH1	46:CB:343:GLU:OE1	2.31	0.62
45:CI:128:ASN:OD1	45:DI:285:GLN:NE2	2.33	0.62
46:DD:12:CYS:O	46:DD:16:ILE:HG12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DE:251:ASP:OD1	45:DE:252:ILE:N	2.33	0.62
46:DN:178:THR:HB	46:DN:181:GLU:HG3	1.82	0.62
45:EC:370:LYS:HA	45:EC:370:LYS:HE3	1.81	0.62
46:ED:2:ARG:NH2	45:EE:73:THR:OG1	2.33	0.62
46:EH:213:ARG:HE	46:EH:297:LYS:HZ2	1.48	0.62
46:EL:309:ARG:NH2	46:EL:426:GLN:O	2.31	0.62
45:FI:81:GLY:O	45:FI:84:ARG:NH1	2.33	0.62
46:FN:178:THR:HB	46:FN:181:GLU:HG3	1.81	0.62
45:HC:164:LYS:O	45:HC:166:LYS:NZ	2.33	0.62
45:HK:244:PHE:HB2	45:HK:356:ASN:HD21	1.65	0.62
46:HN:286:VAL:HA	46:HN:289:LEU:HD12	1.82	0.62
45:KE:109:THR:O	45:KE:112:LYS:NZ	2.32	0.62
45:KK:46:ASP:O	45:KK:50:ASN:ND2	2.33	0.62
45:ME:64:ARG:NH1	45:ME:129:CYS:SG	2.73	0.62
45:MM:108:TYR:O	45:MM:112:LYS:NZ	2.27	0.62
46:NH:96:GLY:O	46:NH:103:LYS:NZ	2.33	0.62
45:OA:99:ALA:HB3	45:OA:145:THR:HB	1.82	0.62
45:PI:352:LYS:HZ1	46:PL:179:VAL:HG22	1.64	0.62
46:PL:2:ARG:H	46:PL:129:CYS:HB3	1.64	0.62
46:QH:49:VAL:HG23	46:QH:50:TYR:CD2	2.35	0.62
46:QL:285:THR:HG23	46:QL:287:PRO:HD2	1.80	0.62
46:RF:164:MET:HB2	46:RF:197:ASP:H	1.64	0.62
46:RL:324:LYS:HG2	46:RL:328:GLU:OE2	1.99	0.62
46:SB:46:ARG:NH2	45:SC:76:ASP:OD2	2.32	0.62
45:SG:9:VAL:HG12	45:SG:68:LEU:HB2	1.81	0.62
46:SN:86:ARG:HE	46:SN:87:PRO:HD2	1.64	0.62
46:TH:100:ASN:ND2	46:TH:401:GLU:OE1	2.32	0.62
46:UF:198:GLU:HG2	46:UF:266:PHE:HE2	1.65	0.62
45:VE:15:GLN:OE1	45:VE:228:ASN:ND2	2.32	0.62
45:WA:241:SER:OG	45:WA:250:VAL:O	2.17	0.62
46:WD:67:ASP:OD1	46:WD:68:LEU:N	2.32	0.62
45:WG:239:THR:HG23	45:WG:243:ARG:HE	1.65	0.62
12:3T:97:ARG:HH12	45:MK:416:GLY:HA3	1.63	0.62
35:4S:110:ARG:HA	35:4S:157:ILE:HD11	1.82	0.62
15:4X:81:ARG:HD3	34:5R:15:HIS:CE1	2.35	0.62
36:5C:43:CYS:SG	46:KJ:391:ARG:NE	2.73	0.62
36:5D:71:SER:O	46:NN:359:LYS:NZ	2.29	0.62
45:AC:161:TYR:HB3	45:AC:164:LYS:HG2	1.80	0.62
45:AG:76:ASP:OD1	45:AG:79:ARG:NH2	2.33	0.62
46:AJ:97:ALA:HA	46:AJ:103:LYS:HE2	1.82	0.62
46:AL:150:LEU:HD23	46:AL:154:LYS:HZ2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BE:250:VAL:HG13	45:BE:254:GLU:HB2	1.82	0.62
45:DK:276:ILE:HD11	45:DK:280:LYS:HG3	1.82	0.62
46:DL:16:ILE:HD12	46:DL:229:VAL:HG21	1.82	0.62
45:DM:326:LYS:HB3	46:DN:208:TYR:HE1	1.63	0.62
46:FL:268:ILE:HG22	46:FL:368:VAL:HG22	1.81	0.62
45:GA:97:GLU:OE1	46:GB:131:GLN:NE2	2.31	0.62
45:GE:326:LYS:N	45:GE:326:LYS:HE2	2.15	0.62
45:GI:164:LYS:O	45:GI:166:LYS:NZ	2.33	0.62
45:HI:64:ARG:NH1	45:HI:129:CYS:SG	2.73	0.62
45:IG:251:ASP:OD1	45:IG:252:ILE:N	2.31	0.62
46:IH:316:LEU:HD13	46:IH:352:SER:HB2	1.81	0.62
46:JD:54:ALA:HA	46:KD:283:ALA:HB2	1.82	0.62
46:KF:107:THR:OG1	46:KF:108:GLU:OE1	2.17	0.62
46:KJ:1:MET:HB2	46:KJ:48:ASN:HD21	1.65	0.62
46:KL:221:THR:HG23	46:KL:223:GLY:H	1.65	0.62
46:LH:64:ILE:HD13	46:LH:119:VAL:HG23	1.82	0.62
46:MB:276:ARG:HA	46:MB:279:GLN:HE21	1.65	0.62
45:MI:371:VAL:HG12	45:MI:373:ARG:H	1.65	0.62
45:NA:392:ASP:OD1	45:NA:422:ARG:NH2	2.33	0.62
45:OM:248:LEU:HD13	45:OM:355:ILE:HD12	1.82	0.62
45:PM:120:ASP:HA	45:PM:123:ARG:HH21	1.65	0.62
46:QD:114:ASP:OD1	46:QD:115:SER:N	2.33	0.62
45:QI:284:GLU:HG3	45:QI:286:LEU:HD22	1.81	0.62
45:RC:402:ARG:HD3	45:RC:402:ARG:O	2.00	0.62
45:SA:48:ALA:HB1	45:SA:243:ARG:HB2	1.82	0.62
45:SC:77:GLU:HA	45:SC:80:THR:HG22	1.82	0.62
45:SE:338:LYS:HG2	45:SE:340:THR:HG22	1.82	0.62
46:TB:238:CYS:HA	46:TB:241:ARG:CZ	2.30	0.62
45:TE:60:LYS:NZ	45:UE:282:TYR:O	2.33	0.62
46:UJ:347:ASN:ND2	45:UK:176:GLN:O	2.33	0.62
45:UM:121:ARG:HH21	45:UM:125:LEU:HD21	1.63	0.62
45:VA:3:GLU:HG2	45:VA:132:LEU:HA	1.81	0.62
45:VA:120:ASP:OD1	45:VA:123:ARG:NH2	2.26	0.62
46:VL:207:LEU:HD13	46:VL:210:ILE:HD11	1.82	0.62
46:WB:164:MET:HB2	46:WB:197:ASP:H	1.63	0.62
46:WH:74:ASP:OD1	46:WH:77:ARG:NH1	2.32	0.62
46:WH:164:MET:HB3	46:WH:197:ASP:H	1.64	0.62
4:OD:85:VAL:HG12	46:EB:355:ASP:HB2	1.82	0.61
23:2O:148:MET:SD	45:VK:370:LYS:NZ	2.63	0.61
10:6Q:93:VAL:HG21	10:6Q:136:LEU:HD11	1.80	0.61
45:BC:209:ILE:HD11	45:BC:230:LEU:HD23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:68:LEU:HD13	46:BF:93:GLY:HA3	1.82	0.61
46:BH:403:MET:HE3	46:BH:403:MET:HA	1.82	0.61
46:CB:107:THR:OG1	46:CB:108:GLU:OE1	2.16	0.61
45:CK:324:VAL:HG12	45:CK:326:LYS:HG2	1.82	0.61
45:DK:422:ARG:O	45:DK:422:ARG:NH1	2.33	0.61
46:DN:100:ASN:ND2	46:DN:401:GLU:OE1	2.33	0.61
45:FG:11:GLN:NE2	46:FH:247:ASN:OD1	2.33	0.61
46:FL:207:LEU:HB3	46:FL:225:LEU:HD22	1.82	0.61
46:GF:222:TYR:O	46:GF:226:ASN:ND2	2.28	0.61
46:GH:272:PRO:HG3	46:GH:284:LEU:HD11	1.82	0.61
45:HA:210:TYR:OH	46:HB:323:THR:OG1	2.18	0.61
46:HN:32:PRO:O	46:HN:83:GLN:NE2	2.33	0.61
46:IN:215:LEU:HB3	46:IN:217:LEU:HD23	1.82	0.61
46:IN:273:LEU:H	46:IN:292:GLN:HE22	1.46	0.61
46:JB:276:ARG:NH2	46:JB:279:GLN:HE22	1.97	0.61
45:JC:339:ARG:HH11	45:JC:339:ARG:HA	1.64	0.61
46:JN:267:MET:HE2	46:JN:299:MET:HB3	1.81	0.61
45:KG:265:ILE:HG22	45:KG:432:TYR:HE1	1.64	0.61
46:MF:128:ASP:OD1	46:MF:129:CYS:N	2.33	0.61
46:NB:200:MET:SD	46:NB:268:ILE:HD11	2.41	0.61
45:NG:287:SER:N	45:NG:290:GLU:OE2	2.32	0.61
46:NJ:113:ILE:HG12	46:NJ:117:LEU:HD23	1.80	0.61
46:NL:125:GLU:OE2	46:OL:336:LYS:NZ	2.33	0.61
45:OA:75:ILE:HD11	45:OA:92:LEU:HB3	1.82	0.61
45:OA:387:VAL:HA	45:OA:390:ARG:HG2	1.81	0.61
45:OE:256:GLN:HG2	46:OH:397:TRP:CH2	2.33	0.61
46:OF:267:MET:HG3	46:OF:299:MET:HE2	1.82	0.61
46:OH:252:LYS:O	46:OH:256:ASN:ND2	2.33	0.61
45:OM:207:GLU:HG3	45:OM:304:LYS:HE3	1.80	0.61
46:PN:73:MET:HB3	46:PN:77:ARG:HH21	1.65	0.61
46:QD:15:GLN:NE2	49:QD:501:GDP:N7	2.48	0.61
45:QE:88:HIS:CE1	45:QE:90:GLU:HB2	2.35	0.61
45:RE:288:VAL:HA	45:RE:291:ILE:HG12	1.81	0.61
45:SG:169:PHE:HB3	45:SG:204:LEU:HD11	1.81	0.61
45:SK:286:LEU:O	45:SK:373:ARG:NH1	2.27	0.61
46:SL:121:ARG:NH2	46:SL:158:GLU:OE2	2.33	0.61
46:TJ:235:GLY:HA3	46:TJ:366:THR:HG21	1.82	0.61
46:UB:247:ASN:O	46:UB:252:LYS:NZ	2.31	0.61
45:VA:174:SER:OG	45:VA:206:ASN:OD1	2.16	0.61
46:VB:309:ARG:NH1	46:VB:343:GLU:OE1	2.32	0.61
46:VF:148:GLY:O	46:VF:152:ILE:HG12	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VH:222:TYR:O	46:VH:226:ASN:ND2	2.24	0.61
45:VI:206:ASN:HB3	45:VI:210:TYR:HE2	1.64	0.61
46:WN:148:GLY:O	46:WN:152:ILE:HG12	2.01	0.61
1:0A:3:GLN:NE2	34:7R:6:PRO:O	2.32	0.61
31:2I:40:LYS:HG2	45:GG:214:ARG:HH21	1.65	0.61
39:6F:138:TYR:HD2	39:6F:141:THR:H	1.48	0.61
41:6H:289:LYS:NZ	46:FH:276:ARG:HD2	2.15	0.61
45:AE:326:LYS:NZ	46:AH:218:THR:O	2.32	0.61
46:AL:310:TYR:HD2	46:AL:371:SER:HB3	1.64	0.61
45:BA:116:ASP:OD1	45:BA:117:LEU:N	2.33	0.61
45:BA:256:GLN:HB3	46:BD:397:TRP:CZ3	2.35	0.61
45:BG:101:ASN:HA	45:BG:144:GLY:H	1.64	0.61
45:BI:371:VAL:HG12	45:BI:373:ARG:H	1.64	0.61
46:CB:19:LYS:NZ	46:CB:223:GLY:O	2.32	0.61
46:CD:70:PRO:O	46:CD:74:ASP:HB2	2.00	0.61
45:CK:331:SER:O	45:CK:335:ILE:HD12	2.00	0.61
45:CM:101:ASN:HA	45:CM:144:GLY:H	1.65	0.61
45:DG:9:VAL:HG12	45:DG:68:LEU:HB2	1.82	0.61
45:FI:329:ASN:ND2	46:FL:175:VAL:HG12	2.11	0.61
45:FK:328:VAL:HG11	45:FK:353:VAL:HG21	1.82	0.61
45:GE:2:ARG:HH21	46:GH:70:PRO:HD2	1.64	0.61
45:GM:226:ASN:ND2	45:GM:367:ASP:OD2	2.33	0.61
45:HI:298:PRO:HG3	45:HI:308:ARG:HH22	1.65	0.61
46:IB:31:ASP:OD2	46:IB:37:HIS:ND1	2.33	0.61
46:JL:309:ARG:NH2	46:JL:426:GLN:O	2.33	0.61
46:MF:31:ASP:OD1	46:MF:35:THR:N	2.31	0.61
45:MG:244:PHE:HB2	45:MG:356:ASN:HD21	1.65	0.61
45:NG:399:TYR:OH	45:NG:415:GLU:OE2	2.18	0.61
46:OB:325:GLU:O	46:OB:329:GLN:HG3	2.00	0.61
46:OL:135:ILE:HB	46:OL:166:THR:HG22	1.82	0.61
45:OM:265:ILE:HG12	45:OM:432:TYR:HE1	1.64	0.61
45:QM:141:VAL:HG11	45:QM:172:TYR:HD1	1.64	0.61
46:RL:55:THR:HG23	46:SL:283:ALA:HA	1.82	0.61
46:SL:154:LYS:HE3	46:SL:154:LYS:HA	1.83	0.61
46:TJ:131:GLN:OE1	46:TJ:251:ARG:NH2	2.32	0.61
46:TJ:321:MET:HB2	45:TK:221:ARG:HH22	1.66	0.61
46:TL:325:GLU:H	45:TM:221:ARG:NH2	1.98	0.61
46:UB:375:GLN:HG3	46:UB:423:GLN:CD	2.20	0.61
45:VC:60:LYS:NZ	45:VC:85:GLN:O	2.32	0.61
45:VK:88:HIS:HB3	45:VK:91:GLN:HG2	1.82	0.61
46:VL:54:ALA:HB3	46:VL:58:ARG:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WH:139:LEU:HD12	46:WH:170:VAL:HG12	1.82	0.61
46:WJ:31:ASP:OD1	46:WJ:35:THR:N	2.33	0.61
46:WL:97:ALA:HA	46:WL:103:LYS:HD3	1.81	0.61
24:1P:226:HIS:CE1	45:TG:279:GLU:HA	2.34	0.61
40:6G:165:THR:HA	46:VH:213:ARG:HH12	1.65	0.61
40:6G:263:SER:O	45:VA:339:ARG:NH2	2.31	0.61
40:6G:263:SER:N	45:VA:337:THR:O	2.33	0.61
45:AC:11:GLN:NE2	46:AD:247:ASN:OD1	2.33	0.61
45:AG:292:THR:HG21	45:AG:331:SER:HB3	1.82	0.61
45:AK:292:THR:HG21	45:AK:331:SER:HB3	1.81	0.61
45:AM:102:ASN:ND2	45:AM:407:TRP:O	2.33	0.61
46:BH:86:ARG:NE	46:BH:86:ARG:HA	2.14	0.61
45:BM:222:PRO:O	46:BN:322:SER:OG	2.17	0.61
46:CB:11:GLN:HA	46:CB:72:THR:HG21	1.82	0.61
46:CF:11:GLN:NE2	49:CF:501:GDP:O3B	2.28	0.61
46:CJ:87:PRO:HA	46:CJ:90:PHE:HD2	1.64	0.61
45:DK:287:SER:N	45:DK:290:GLU:OE2	2.31	0.61
45:EA:188:ILE:HD12	45:EA:425:LEU:HD11	1.82	0.61
45:FC:284:GLU:HG2	45:FC:286:LEU:HD22	1.83	0.61
46:FD:290:THR:HA	46:FD:293:MET:HG2	1.82	0.61
46:FJ:139:LEU:HD22	46:FJ:170:VAL:HG12	1.81	0.61
46:GB:222:TYR:O	46:GB:226:ASN:ND2	2.29	0.61
46:GJ:114:ASP:OD1	46:GJ:115:SER:N	2.33	0.61
46:GL:226:ASN:HD21	49:GL:502:GDP:HN1	1.47	0.61
46:HJ:273:LEU:H	46:HJ:292:GLN:HE22	1.47	0.61
45:IE:22:GLU:HG3	45:IE:83:TYR:CE2	2.36	0.61
45:IE:22:GLU:HG3	45:IE:83:TYR:HE2	1.64	0.61
46:IL:179:VAL:HG23	46:IL:180:VAL:HG23	1.83	0.61
46:JN:318:ARG:HE	46:JN:358:PRO:HG3	1.65	0.61
45:KC:151:SER:O	45:KC:155:GLU:HG2	2.00	0.61
46:KF:128:ASP:OD1	46:KF:129:CYS:N	2.31	0.61
45:KK:46:ASP:OD1	45:KK:47:ASP:N	2.31	0.61
46:LN:392:LYS:HD2	46:LN:395:LEU:HD22	1.82	0.61
45:ME:11:GLN:NE2	46:MF:245:GLN:O	2.33	0.61
45:MG:68:LEU:HD23	45:MG:93:ILE:HB	1.83	0.61
45:OM:210:TYR:CD1	46:ON:324:LYS:HB3	2.36	0.61
45:OM:222:PRO:HG2	46:ON:324:LYS:HE2	1.83	0.61
46:PB:73:MET:HA	46:PB:76:VAL:HG12	1.81	0.61
46:QF:271:ALA:HB3	46:QF:365:VAL:HB	1.82	0.61
45:QM:15:GLN:NE2	47:QM:501:GTP:O6	2.33	0.61
45:RM:72:PRO:HA	45:RM:75:ILE:HD13	1.80	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SA:244:PHE:HB2	45:SA:356:ASN:HD21	1.65	0.61
46:SB:313:ALA:HB1	46:SB:367:PHE:HE1	1.65	0.61
46:SD:114:ASP:OD1	46:SD:115:SER:N	2.33	0.61
45:TE:294:SER:HA	45:TE:297:GLU:HG2	1.82	0.61
45:TI:288:VAL:HG11	45:TI:327:ASP:HB3	1.82	0.61
46:TJ:178:THR:HB	46:TJ:181:GLU:HG3	1.82	0.61
45:TK:89:PRO:HD2	45:UK:280:LYS:NZ	2.15	0.61
46:TL:135:ILE:HG13	46:TL:152:ILE:HD11	1.81	0.61
46:TN:67:ASP:O	46:TN:92:PHE:HA	2.00	0.61
45:VA:292:THR:HG21	45:VA:331:SER:HB3	1.81	0.61
45:VA:387:VAL:HA	45:VA:390:ARG:HE	1.65	0.61
46:VB:86:ARG:NH1	46:VB:88:ASP:HB3	2.15	0.61
46:VH:309:ARG:NH1	46:VH:343:GLU:OE1	2.32	0.61
46:VJ:222:TYR:O	46:VJ:226:ASN:ND2	2.31	0.61
46:VJ:399:THR:HA	46:VJ:403:MET:HB3	1.81	0.61
46:WD:105:HIS:CE1	46:WD:150:LEU:HD12	2.35	0.61
45:CE:175:PRO:HG3	45:CE:390:ARG:HH12	1.65	0.61
21:1L:780:GLN:O	46:BD:320:ARG:NH2	2.34	0.61
12:1T:147:PHE:CD1	46:MF:106:TYR:HB3	2.35	0.61
25:3R:25:VAL:HG12	45:MK:46:ASP:H	1.63	0.61
14:3V:22:ARG:HH22	45:MA:422:ARG:HB3	1.65	0.61
14:3V:33:PRO:HB3	45:MA:304:LYS:HD2	1.82	0.61
40:6G:105:LYS:NZ	45:VI:176:GLN:HG2	2.16	0.61
34:7R:133:LYS:HA	34:7R:133:LYS:HE3	1.82	0.61
34:7R:302:LEU:H	46:CB:77:ARG:HH22	1.47	0.61
46:AB:91:VAL:HG21	46:AB:116:VAL:HB	1.82	0.61
45:AC:101:ASN:HA	45:AC:144:GLY:H	1.65	0.61
46:AJ:372:THR:HA	46:AJ:422:TYR:HE2	1.64	0.61
45:BM:214:ARG:NH1	45:BM:214:ARG:O	2.31	0.61
45:CC:239:THR:O	45:CC:243:ARG:NH1	2.33	0.61
46:CF:103:LYS:NZ	46:CF:401:GLU:OE2	2.29	0.61
46:CJ:67:ASP:OD1	46:CJ:68:LEU:N	2.34	0.61
46:CJ:248:SER:HA	46:CJ:252:LYS:HG3	1.82	0.61
45:CM:37:PRO:HB2	45:CM:40:LYS:HB2	1.82	0.61
45:CM:214:ARG:NH1	45:CM:214:ARG:HA	2.16	0.61
46:DB:200:MET:HE2	46:DB:266:PHE:HB2	1.82	0.61
46:DD:48:ASN:O	46:DD:62:ARG:NH1	2.32	0.61
46:DD:247:ASN:HD21	45:DE:73:THR:HG21	1.66	0.61
46:DD:285:THR:HG22	46:DD:287:PRO:HD2	1.81	0.61
45:EC:288:VAL:O	45:EC:292:THR:HG23	2.01	0.61
45:EC:363:VAL:HG13	45:EC:366:GLY:HA3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:318:ARG:HG2	46:ED:357:PRO:HA	1.82	0.61
46:EH:107:THR:OG1	46:EH:108:GLU:OE1	2.16	0.61
45:FC:385:ALA:HB2	45:FC:432:TYR:HD2	1.65	0.61
46:FL:310:TYR:HD2	46:FL:371:SER:HB2	1.65	0.61
46:FN:173:PRO:HG2	46:FN:380:ARG:HE	1.65	0.61
46:FN:309:ARG:NH2	46:FN:426:GLN:O	2.33	0.61
46:GF:215:LEU:HD21	46:GF:273:LEU:HD12	1.82	0.61
45:GG:101:ASN:HA	45:GG:144:GLY:H	1.65	0.61
46:GL:55:THR:HG21	46:HL:284:LEU:HD13	1.82	0.61
45:HE:288:VAL:HG11	45:HE:327:ASP:HB3	1.82	0.61
45:HI:284:GLU:HG2	45:HI:286:LEU:HD22	1.83	0.61
45:IE:11:GLN:HB2	45:IE:74:VAL:HG11	1.82	0.61
46:IH:58:ARG:HH22	45:JE:283:HIS:CE1	2.17	0.61
46:IJ:8:GLN:HE22	46:IJ:17:GLY:CA	2.13	0.61
45:IK:328:VAL:HG11	45:IK:353:VAL:HG21	1.83	0.61
46:IN:344:TRP:HB3	46:IN:430:ALA:HB2	1.81	0.61
46:KD:208:TYR:CE1	46:KD:225:LEU:HD11	2.35	0.61
45:MA:259:LEU:HD21	45:MA:316:SER:HB2	1.82	0.61
46:ND:263:LEU:HD22	46:ND:422:TYR:HD1	1.64	0.61
45:NK:97:GLU:HB2	46:NL:2:ARG:NH2	2.15	0.61
45:OG:108:TYR:HE2	45:OG:413:MET:HG2	1.66	0.61
45:OK:292:THR:HG21	45:OK:331:SER:HB3	1.82	0.61
45:OK:333:ALA:O	45:OK:337:THR:HG23	2.01	0.61
45:QG:352:LYS:HZ1	46:QH:178:THR:HG23	1.64	0.61
45:QK:284:GLU:HG2	45:QK:286:LEU:HD22	1.82	0.61
46:RH:11:GLN:OE1	46:RH:15:GLN:NE2	2.34	0.61
46:RH:331:LEU:HD11	45:RI:177:VAL:HG22	1.82	0.61
45:RM:108:TYR:HE2	45:RM:413:MET:HG2	1.63	0.61
45:SC:241:SER:OG	45:SC:250:VAL:O	2.19	0.61
45:SI:371:VAL:HG12	45:SI:373:ARG:H	1.64	0.61
46:SL:32:PRO:HG3	46:SL:81:PHE:CE1	2.36	0.61
46:SL:148:GLY:O	46:SL:152:ILE:HD12	1.99	0.61
46:TH:313:ALA:HB1	46:TH:367:PHE:HE1	1.65	0.61
46:TJ:77:ARG:NH1	46:TJ:82:GLY:O	2.32	0.61
45:UC:7:ILE:HD13	45:UC:153:LEU:HD21	1.83	0.61
45:UE:326:LYS:HE2	46:UF:208:TYR:HD1	1.63	0.61
45:UK:285:GLN:HE22	45:UK:287:SER:HB2	1.65	0.61
45:UM:98:ASP:OD1	45:UM:145:THR:OG1	2.17	0.61
46:UN:87:PRO:HD2	46:VN:281:TYR:HE1	1.64	0.61
45:VC:31:GLN:NE2	45:VC:35:GLN:O	2.33	0.61
46:VL:16:ILE:HD12	46:VL:229:VAL:HG11	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:306:ASP:OD2	45:WA:308:ARG:NH2	2.33	0.61
46:WL:260:PHE:HB2	46:WL:263:LEU:HD13	1.83	0.61
2:0B:241:LEU:HD11	46:JL:227:HIS:CE1	2.35	0.61
14:0V:94:GLY:HA2	46:LN:262:ARG:HG2	1.81	0.61
7:1G:128:LEU:HD11	46:JB:39:ASP:HB3	1.81	0.61
21:1L:67:ARG:HH21	45:BI:365:GLY:H	1.47	0.61
24:1P:269:ALA:HA	45:TE:372:MET:HE3	1.82	0.61
28:2F:74:SER:OG	46:HF:291:GLN:NE2	2.23	0.61
11:2S:97:ARG:HH22	46:MJ:262:ARG:NH1	1.98	0.61
30:4H:169:THR:HB	34:5R:85:TRP:HE1	1.64	0.61
34:5R:78:ILE:HG23	34:5R:86:LEU:HD21	1.82	0.61
34:6R:317:HIS:O	46:CN:227:HIS:NE2	2.33	0.61
45:BC:27:GLU:OE2	45:BC:361:THR:OG1	2.17	0.61
45:BG:292:THR:HG21	45:BG:331:SER:HB3	1.81	0.61
46:CF:253:LEU:HD12	46:CF:257:LEU:HD13	1.82	0.61
45:CI:259:LEU:O	45:CI:380:ASN:ND2	2.32	0.61
46:CJ:396:HIS:HA	46:CJ:399:THR:HG22	1.81	0.61
45:CK:75:ILE:HG23	45:CK:92:LEU:HD12	1.82	0.61
46:CL:101:TRP:HD1	46:CL:145:SER:HG	1.48	0.61
46:CL:345:ILE:HA	45:CM:398:MET:HE1	1.82	0.61
45:CM:70:LEU:HD13	45:CM:95:GLY:HA3	1.81	0.61
45:CM:90:GLU:OE2	45:CM:124:LYS:NZ	2.33	0.61
45:DE:210:TYR:CE2	45:DE:227:LEU:HD11	2.36	0.61
46:ED:371:SER:O	46:ED:422:TYR:OH	2.18	0.61
46:EF:99:ASN:HA	46:EF:142:GLY:H	1.64	0.61
46:EL:2:ARG:NH2	45:EM:71:GLU:OE1	2.32	0.61
45:GG:282:TYR:OH	45:GG:370:LYS:O	2.17	0.61
46:HF:73:MET:HA	46:HF:76:VAL:HG12	1.82	0.61
46:HN:16:ILE:HD12	46:HN:229:VAL:HG21	1.81	0.61
45:IK:100:ALA:HA	46:IL:252:LYS:HG2	1.82	0.61
46:JB:114:ASP:OD1	46:JB:115:SER:N	2.33	0.61
45:JI:72:PRO:HD2	46:JJ:2:ARG:NH2	2.15	0.61
46:KH:313:ALA:HB3	46:KH:349:ILE:HG22	1.82	0.61
45:LG:11:GLN:NE2	46:LH:245:GLN:O	2.33	0.61
46:MB:350:LYS:NZ	46:MB:352:SER:OG	2.33	0.61
45:MC:27:GLU:OE1	45:MC:243:ARG:NH1	2.25	0.61
45:NM:7:ILE:HB	45:NM:137:VAL:HG12	1.82	0.61
46:OH:316:LEU:HD13	46:OH:352:SER:HB2	1.82	0.61
46:OJ:252:LYS:O	46:OJ:256:ASN:ND2	2.33	0.61
45:OM:8:HIS:HB2	45:OM:67:PHE:HD1	1.66	0.61
45:PC:329:ASN:HA	45:PC:332:ILE:HG22	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:107:THR:OG1	46:QB:108:GLU:OE1	2.16	0.61
46:QD:207:LEU:HB3	46:QD:225:LEU:HD22	1.82	0.61
45:QK:55:GLU:O	45:RK:285:GLN:NE2	2.23	0.61
46:RJ:371:SER:O	46:RJ:422:TYR:OH	2.16	0.61
45:SK:192:HIS:NE2	45:SK:424:ASP:OD2	2.33	0.61
46:SL:310:TYR:HA	46:SL:371:SER:HA	1.81	0.61
46:SL:334:GLN:HA	46:SL:341:PHE:HE2	1.65	0.61
45:TC:210:TYR:HE1	45:TC:227:LEU:HD11	1.66	0.61
45:TG:116:ASP:OD1	45:TG:117:LEU:N	2.34	0.61
45:TI:72:PRO:HA	45:TI:75:ILE:HD13	1.81	0.61
46:TL:55:THR:HG23	46:UL:283:ALA:HA	1.82	0.61
45:UC:352:LYS:HZ3	46:UD:179:VAL:H	1.48	0.61
46:UD:322:SER:OG	45:UE:221:ARG:NH1	2.33	0.61
46:UH:46:ARG:NH2	45:UI:76:ASP:OD2	2.33	0.61
45:UM:89:PRO:HD2	45:VK:280:LYS:CE	2.30	0.61
46:VB:317:PHE:HB2	46:VB:353:ILE:HG13	1.82	0.61
46:VD:143:THR:OG1	49:VD:501:GDP:O1B	2.19	0.61
47:WA:501:GTP:O1G	46:WB:252:LYS:NZ	2.33	0.61
45:WI:242:LEU:HD11	45:WI:252:ILE:HG12	1.80	0.61
15:2X:81:ARG:HD2	46:MJ:276:ARG:HD3	1.80	0.61
31:3I:220:LYS:NZ	46:GL:336:LYS:HD3	2.16	0.61
37:5F:13:ASN:HD21	37:5F:23:ASP:HB2	1.65	0.61
34:5R:143:VAL:HG13	46:AL:78:ALA:HB2	1.81	0.61
46:AH:257:LEU:HD11	46:AH:314:SER:HB3	1.83	0.61
46:AN:31:ASP:OD1	46:AN:35:THR:N	2.29	0.61
45:BA:221:ARG:CZ	46:BB:325:GLU:HB2	2.30	0.61
46:BB:372:THR:HA	46:BB:422:TYR:HE2	1.66	0.61
46:BD:297:LYS:HA	46:BD:297:LYS:HE3	1.82	0.61
46:BN:61:PRO:HD3	46:BN:84:LEU:HD12	1.83	0.61
46:DL:350:LYS:NZ	45:DM:181:VAL:HG22	2.16	0.61
46:FD:100:ASN:HB3	46:FD:103:LYS:HB2	1.82	0.61
45:FE:51:THR:HG22	45:FE:52:PHE:HD1	1.65	0.61
46:FF:167:PHE:CE1	46:FF:233:MET:HG2	2.35	0.61
45:GC:292:THR:HG21	45:GC:331:SER:HB3	1.80	0.61
45:GK:2:ARG:HB2	45:GK:133:GLN:NE2	2.15	0.61
45:GK:76:ASP:OD2	46:GL:46:ARG:NH2	2.34	0.61
46:JL:86:ARG:HD2	46:JL:88:ASP:HB2	1.82	0.61
46:KB:426:GLN:NE2	46:KB:427:ASP:OD1	2.33	0.61
45:KG:11:GLN:NE2	46:KH:245:GLN:O	2.33	0.61
46:LB:10:GLY:O	46:LB:14:ASN:ND2	2.33	0.61
45:LI:11:GLN:NE2	46:LJ:245:GLN:O	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:257:LEU:HD21	46:LL:314:SER:HB2	1.82	0.61
46:LN:12:CYS:O	46:LN:16:ILE:HG12	2.00	0.61
46:MD:12:CYS:O	46:MD:16:ILE:HG13	2.00	0.61
46:ML:114:ASP:OD1	46:ML:115:SER:N	2.34	0.61
46:NB:91:VAL:HG21	46:NB:116:VAL:HB	1.81	0.61
45:NE:88:HIS:CE1	45:OE:280:LYS:HZ1	2.18	0.61
45:OG:192:HIS:CE1	45:OG:424:ASP:OD2	2.54	0.61
45:OK:195:LEU:HD21	45:OK:264:ARG:HE	1.65	0.61
45:PA:50:ASN:O	45:PA:64:ARG:NH2	2.33	0.61
45:PI:56:THR:HG23	45:PI:58:ALA:H	1.66	0.61
46:PJ:389:PHE:HZ	46:PJ:405:GLU:HG2	1.65	0.61
46:PL:67:ASP:O	46:PL:92:PHE:HA	2.00	0.61
45:QE:88:HIS:HB3	45:QE:91:GLN:HG2	1.82	0.61
46:RD:31:ASP:OD1	46:RD:37:HIS:ND1	2.33	0.61
45:RG:116:ASP:OD1	45:RG:117:LEU:N	2.34	0.61
46:RL:264:HIS:ND1	46:RL:264:HIS:O	2.33	0.61
45:SC:27:GLU:HB3	45:SC:361:THR:HG21	1.82	0.61
46:SD:136:THR:HG22	46:SD:167:PHE:HB2	1.82	0.61
46:SD:162:ARG:NH1	45:SE:97:GLU:OE2	2.32	0.61
46:SJ:222:TYR:HA	46:SJ:225:LEU:HG	1.83	0.61
46:SN:178:THR:HB	46:SN:181:GLU:HG3	1.82	0.61
46:TN:200:MET:HE3	46:TN:268:ILE:HG21	1.83	0.61
45:WC:286:LEU:O	45:WC:373:ARG:NH2	2.33	0.61
45:WG:211:ASP:HA	45:WG:214:ARG:HG3	1.82	0.61
45:CE:319:TYR:CE2	45:CE:328:VAL:HG22	2.36	0.61
45:DC:390:ARG:HH21	45:DC:394:LYS:HG3	1.64	0.61
20:2K:433:LEU:HG	45:GE:282:TYR:CE2	2.34	0.61
22:2M:80:PHE:HB2	45:IG:39:ASP:HB2	1.81	0.61
33:4F:71:TYR:HD1	45:II:31:GLN:HG3	1.65	0.61
37:5H:44:ARG:HH12	45:OK:285:GLN:HA	1.65	0.61
46:AH:372:THR:HA	46:AH:422:TYR:HE1	1.65	0.61
45:BE:88:HIS:HA	45:CE:283:HIS:HD1	1.66	0.61
46:CB:258:ILE:HG13	46:CB:266:PHE:HZ	1.65	0.61
45:CC:244:PHE:HB2	45:CC:356:ASN:HD21	1.66	0.61
45:CG:292:THR:HG21	45:CG:331:SER:HB3	1.82	0.61
46:CN:31:ASP:OD2	46:CN:37:HIS:ND1	2.32	0.61
46:CN:32:PRO:HG3	46:CN:81:PHE:HE1	1.65	0.61
45:DA:60:LYS:NZ	45:DA:85:GLN:O	2.31	0.61
46:EF:60:VAL:HG21	46:EF:86:ARG:HG2	1.83	0.61
45:EI:304:LYS:HD2	45:EI:304:LYS:O	2.00	0.61
45:EM:55:GLU:HG3	45:EM:57:GLY:H	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:121:ARG:NH1	45:EM:125:LEU:HD11	2.16	0.61
45:FC:71:GLU:OE2	46:FD:2:ARG:NH2	2.34	0.61
45:FE:116:ASP:OD1	45:FE:117:LEU:N	2.33	0.61
46:FF:309:ARG:NH2	46:FF:426:GLN:O	2.24	0.61
45:GA:88:HIS:HA	45:HA:283:HIS:CE1	2.35	0.61
45:HE:352:LYS:HZ2	46:HH:179:VAL:HG22	1.64	0.61
45:HK:11:GLN:NE2	46:HL:245:GLN:O	2.34	0.61
45:HM:76:ASP:HA	45:HM:79:ARG:HG2	1.82	0.61
46:IB:240:LEU:HD11	46:IB:249:ASP:HA	1.83	0.61
45:IE:226:ASN:ND2	45:IE:367:ASP:OD2	2.34	0.61
46:IH:238:CYS:SG	46:IH:241:ARG:NH2	2.74	0.61
45:JC:221:ARG:HH11	45:JC:221:ARG:HA	1.66	0.61
45:JI:338:LYS:HE3	45:JI:340:THR:HG22	1.81	0.61
46:KJ:114:ASP:OD1	46:KJ:115:SER:N	2.34	0.61
46:LF:58:ARG:NH2	46:MF:281:TYR:OH	2.34	0.61
46:LF:383:GLU:OE2	46:LF:384:GLN:NE2	2.33	0.61
45:OC:208:ALA:HA	45:OC:304:LYS:HE3	1.81	0.61
45:OC:414:GLU:OE2	45:OC:417:GLU:N	2.31	0.61
46:PD:257:LEU:HD11	46:PD:314:SER:HB2	1.82	0.61
46:PF:67:ASP:O	46:PF:92:PHE:HA	2.00	0.61
46:PN:309:ARG:H	46:PN:372:THR:HG1	1.47	0.61
45:QM:55:GLU:HG3	45:QM:57:GLY:H	1.65	0.61
46:RF:237:THR:HG23	46:RF:241:ARG:HH21	1.65	0.61
46:RN:222:TYR:O	46:RN:226:ASN:ND2	2.29	0.61
45:SA:135:PHE:HB2	45:SA:166:LYS:HG2	1.83	0.61
45:SG:367:ASP:OD1	45:SG:368:LEU:N	2.33	0.61
45:SI:247:ALA:HB3	45:SI:355:ILE:HD11	1.83	0.61
46:SJ:177:ASP:OD1	46:SJ:178:THR:N	2.34	0.61
45:SM:69:ASP:HB3	45:SM:75:ILE:HD11	1.83	0.61
46:TB:313:ALA:HB1	46:TB:367:PHE:HE1	1.65	0.61
45:TG:326:LYS:HD3	46:TH:220:PRO:HD2	1.83	0.61
46:TL:244:GLY:HA3	46:TL:354:CYS:HA	1.83	0.61
45:TM:274:PRO:HG3	45:TM:286:LEU:HD11	1.83	0.61
46:TN:222:TYR:O	46:TN:226:ASN:ND2	2.28	0.61
45:UA:226:ASN:ND2	45:UA:367:ASP:OD2	2.34	0.61
46:UL:190:HIS:ND1	46:UL:191:GLN:OE1	2.23	0.61
46:VB:222:TYR:O	46:VB:226:ASN:ND2	2.29	0.61
45:VC:406:HIS:HA	45:VC:409:VAL:HG12	1.82	0.61
46:VF:158:GLU:HG3	46:VF:159:TYR:CD1	2.35	0.61
45:WC:51:THR:HG23	45:WC:52:PHE:HD2	1.66	0.61
45:WC:399:TYR:O	45:WC:402:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:17:GLN:NE2	34:6R:46:GLU:O	2.33	0.61
36:5C:156:VAL:HG12	36:5C:158:ASN:H	1.66	0.61
36:5D:94:MET:H	45:KM:430:LYS:NZ	1.98	0.61
40:6G:281:THR:HG22	40:6G:284:LYS:HZ3	1.66	0.61
34:6R:353:ASP:OD1	34:6R:356:THR:OG1	2.14	0.61
43:8P:230:UNK:HA	45:PE:58:ALA:HB1	1.82	0.61
46:BF:65:LEU:HD22	46:BF:90:PHE:HE1	1.65	0.61
46:BJ:372:THR:HA	46:BJ:422:TYR:HE2	1.65	0.61
46:CD:324:LYS:HE2	45:CE:222:PRO:HG2	1.83	0.61
46:CF:181:GLU:HB3	46:CF:182:PRO:HD3	1.83	0.61
46:DF:222:TYR:O	46:DF:226:ASN:ND2	2.29	0.61
45:EE:326:LYS:HZ1	46:EF:208:TYR:HB3	1.64	0.61
46:FF:215:LEU:HD22	46:FF:217:LEU:HD23	1.80	0.61
45:FG:396:ASP:OD1	45:FG:422:ARG:NH1	2.33	0.61
46:FL:309:ARG:NH2	46:FL:426:GLN:O	2.28	0.61
46:GL:77:ARG:NH1	46:GL:82:GLY:O	2.33	0.61
45:HA:284:GLU:HG2	45:HA:286:LEU:HD22	1.81	0.61
45:HE:292:THR:HG21	45:HE:331:SER:HB3	1.81	0.61
46:HN:67:ASP:OD1	46:HN:68:LEU:N	2.34	0.61
46:HN:222:TYR:O	46:HN:226:ASN:ND2	2.24	0.61
45:IA:1:MET:HG2	45:IA:2:ARG:HD3	1.82	0.61
46:ID:86:ARG:NH2	45:JA:284:GLU:OE1	2.34	0.61
46:IH:114:ASP:OD1	46:IH:115:SER:N	2.33	0.61
45:JG:141:VAL:HG22	45:JG:187:SER:HA	1.83	0.61
46:JH:65:LEU:HD11	46:JH:90:PHE:HD1	1.66	0.61
46:KD:156:ARG:NH2	46:KD:160:PRO:O	2.33	0.61
46:LF:132:GLY:HA3	46:LF:163:ILE:HG22	1.82	0.61
45:LG:116:ASP:OD1	45:LG:117:LEU:N	2.34	0.61
45:LM:11:GLN:NE2	46:LN:245:GLN:O	2.34	0.61
45:MC:258:ASN:HD21	46:MF:178:THR:HG23	1.64	0.61
46:MJ:377:MET:SD	46:MJ:380:ARG:NH2	2.73	0.61
46:NN:222:TYR:HA	46:NN:225:LEU:HD12	1.82	0.61
45:PC:167:LEU:HG	45:PC:200:VAL:HB	1.82	0.61
46:PD:67:ASP:O	46:PD:92:PHE:HA	2.01	0.61
46:PN:86:ARG:HH11	46:QL:281:TYR:HB2	1.65	0.61
46:QB:31:ASP:OD2	46:QB:37:HIS:ND1	2.34	0.61
45:RC:241:SER:OG	45:RC:250:VAL:O	2.16	0.61
46:SL:68:LEU:HB3	46:SL:96:GLY:HA2	1.82	0.61
45:TA:215:ARG:NH2	45:TA:299:ALA:O	2.33	0.61
46:UB:186:THR:O	46:UB:190:HIS:ND1	2.34	0.61
45:UK:399:TYR:O	45:UK:402:ARG:NH1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:2:ARG:HH22	46:VD:70:PRO:HD2	1.66	0.61
45:VG:223:THR:HG23	45:VG:225:THR:H	1.66	0.61
46:VL:158:GLU:HG3	46:VL:159:TYR:CD1	2.36	0.61
46:WN:371:SER:O	46:WN:422:TYR:OH	2.14	0.61
24:1P:337:GLN:HE21	45:TC:26:LEU:HD12	1.63	0.61
34:4R:256:LEU:HD23	34:4R:280:LEU:HD13	1.83	0.61
36:5C:84:TYR:HE1	45:NI:18:ASN:HB3	1.66	0.61
45:AC:241:SER:OG	45:AC:250:VAL:O	2.19	0.61
46:AF:67:ASP:O	46:AF:92:PHE:HA	1.99	0.61
45:BA:215:ARG:NH2	45:BA:300:ASN:OD1	2.34	0.61
46:BD:166:THR:HG21	46:BD:192:LEU:HD11	1.83	0.61
46:BD:190:HIS:NE2	46:BD:410:GLU:OE1	2.34	0.61
45:BG:135:PHE:HB2	45:BG:166:LYS:HG2	1.82	0.61
46:BL:91:VAL:HG21	46:BL:116:VAL:HB	1.81	0.61
46:CB:324:LYS:NZ	45:CC:221:ARG:HA	2.16	0.61
46:CB:344:TRP:HB3	46:CB:430:ALA:HB2	1.82	0.61
46:CF:6:HIS:CD2	46:CF:134:GLN:HE22	2.19	0.61
45:DM:179:THR:HG1	47:DM:501:GTP:HO3'	1.49	0.61
45:FC:288:VAL:HA	45:FC:291:ILE:HG12	1.82	0.61
46:FD:86:ARG:HH11	46:GD:281:TYR:HB3	1.64	0.61
46:GJ:36:TYR:OH	46:GJ:40:SER:O	2.18	0.61
45:HI:211:ASP:OD1	45:HI:215:ARG:NH1	2.32	0.61
46:IN:173:PRO:HD2	46:IN:380:ARG:NH2	2.16	0.61
46:JD:31:ASP:OD1	46:JD:35:THR:N	2.31	0.61
46:JD:204:ASN:OD1	49:JD:501:GDP:N2	2.32	0.61
46:JF:15:GLN:HB3	46:JF:226:ASN:HD21	1.65	0.61
45:KC:241:SER:OG	45:KC:250:VAL:O	2.16	0.61
46:KH:114:ASP:OD1	46:KH:115:SER:N	2.34	0.61
46:KJ:10:GLY:O	46:KJ:14:ASN:ND2	2.33	0.61
45:KK:151:SER:O	45:KK:155:GLU:HG3	2.00	0.61
46:LH:101:TRP:HB2	46:LH:184:ASN:HB3	1.81	0.61
46:MD:114:ASP:OD1	46:MD:115:SER:N	2.33	0.61
45:NC:287:SER:N	45:NC:290:GLU:OE2	2.32	0.61
46:NF:167:PHE:CE1	46:NF:233:MET:HG2	2.36	0.61
45:OC:88:HIS:HA	45:PC:280:LYS:HE3	1.83	0.61
45:PI:71:GLU:OE2	45:PI:73:THR:HG23	2.01	0.61
45:QA:337:THR:O	45:QA:339:ARG:NH1	2.33	0.61
45:RC:7:ILE:HB	45:RC:137:VAL:HG12	1.81	0.61
46:RF:68:LEU:HB3	46:RF:96:GLY:HA2	1.83	0.61
46:RL:238:CYS:SG	46:RL:318:ARG:HD3	2.41	0.61
45:SC:188:ILE:HG21	45:SC:422:ARG:HH12	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TA:56:THR:OG1	45:UA:283:HIS:O	2.18	0.61
45:TA:284:GLU:HG3	45:TA:286:LEU:HD22	1.82	0.61
46:TB:73:MET:HA	46:TB:76:VAL:HG12	1.82	0.61
45:TC:259:LEU:O	45:TC:380:ASN:ND2	2.34	0.61
46:TH:31:ASP:OD1	46:TH:35:THR:N	2.32	0.61
45:TI:90:GLU:CD	45:UI:280:LYS:HZ3	2.04	0.61
46:UH:139:LEU:HD13	46:UH:168:SER:HB3	1.83	0.61
46:UH:381:VAL:HG12	46:UH:385:PHE:HE2	1.65	0.61
46:UL:148:GLY:O	46:UL:152:ILE:HG12	1.99	0.61
45:VG:177:VAL:HG13	46:VH:327:ASP:OD1	2.01	0.61
46:WD:7:ILE:HG22	46:WD:64:ILE:HB	1.82	0.61
46:WJ:318:ARG:CZ	46:WJ:358:PRO:HG3	2.31	0.61
45:WK:195:LEU:O	45:WK:264:ARG:NH2	2.34	0.61
46:WN:207:LEU:HD22	46:WN:228:LEU:HD11	1.83	0.61
45:DC:9:VAL:HG12	45:DC:68:LEU:HB2	1.83	0.61
17:1F:159:THR:OG1	46:HL:291:GLN:OE1	2.19	0.61
8:1H:221:TYR:HE1	46:HH:362:LYS:HZ2	1.49	0.61
34:4R:182:ASP:OD1	34:4R:183:CYS:N	2.33	0.61
37:5E:61:LYS:HG2	46:OB:276:ARG:NH2	2.16	0.61
34:5R:480:ILE:HD12	34:5R:480:ILE:H	1.66	0.61
34:7R:12:LEU:HB2	34:7R:15:HIS:CD2	2.36	0.61
34:7R:126:THR:HG21	34:7R:147:ARG:HE	1.65	0.61
46:AD:107:THR:HG23	46:AD:108:GLU:OE2	2.01	0.61
46:AL:257:LEU:HD11	46:AL:314:SER:HB2	1.83	0.61
45:AM:285:GLN:NE2	45:MM:55:GLU:O	2.27	0.61
45:BA:88:HIS:CE1	45:CA:280:LYS:HE2	2.36	0.61
46:CB:238:CYS:SG	46:CB:239:CYS:N	2.74	0.61
45:CM:292:THR:HG21	45:CM:331:SER:HB3	1.82	0.61
45:DA:226:ASN:ND2	45:DA:367:ASP:OD2	2.34	0.61
46:DD:8:GLN:HE21	46:DD:65:LEU:HD22	1.66	0.61
45:DE:133:GLN:HB3	45:DE:252:ILE:HD12	1.83	0.61
45:DM:188:ILE:HG23	45:DM:425:LEU:HD11	1.83	0.61
46:EB:207:LEU:HD22	46:EB:228:LEU:HD11	1.83	0.61
45:EK:292:THR:HG21	45:EK:331:SER:HB2	1.82	0.61
45:GE:326:LYS:HD2	46:GH:208:TYR:CE1	2.36	0.61
46:IF:258:ILE:HD12	46:IF:264:HIS:HB3	1.82	0.61
45:IG:98:ASP:OD2	45:IG:99:ALA:N	2.33	0.61
46:IH:285:THR:HB	46:IH:287:PRO:HD2	1.82	0.61
46:IJ:6:HIS:HD2	46:IJ:134:GLN:HE22	1.49	0.61
46:IN:5:VAL:HG12	46:IN:62:ARG:HD3	1.81	0.61
45:JE:116:ASP:OD1	45:JE:117:LEU:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JH:65:LEU:HD11	46:JH:90:PHE:CD1	2.36	0.61
45:JK:22:GLU:OE2	45:JK:229:ARG:NH1	2.34	0.61
45:KE:288:VAL:HA	45:KE:291:ILE:HG12	1.81	0.61
46:KJ:32:PRO:HG3	46:KJ:81:PHE:CE2	2.36	0.61
45:LC:387:VAL:HG12	45:LC:390:ARG:HH12	1.65	0.61
45:LG:226:ASN:ND2	45:LG:367:ASP:OD2	2.34	0.61
45:LI:319:TYR:HD2	45:LI:323:VAL:HG11	1.66	0.61
46:MD:330:MET:HE2	46:MD:349:ILE:HG21	1.83	0.61
45:MG:288:VAL:HA	45:MG:291:ILE:HG12	1.82	0.61
45:MI:88:HIS:CE1	45:MI:90:GLU:HG2	2.36	0.61
45:MM:76:ASP:OD2	45:MM:79:ARG:NH2	2.30	0.61
45:NE:80:THR:O	45:NE:84:ARG:NH2	2.34	0.61
46:NL:68:LEU:HD13	46:NL:93:GLY:HA3	1.82	0.61
45:PM:9:VAL:HG12	45:PM:146:GLY:HA2	1.83	0.61
46:QB:318:ARG:HB3	46:QB:357:PRO:HA	1.82	0.61
45:QC:384:ILE:HG22	45:QC:388:PHE:HE1	1.65	0.61
46:QH:54:ALA:HA	46:RH:283:ALA:HB2	1.83	0.61
45:QK:288:VAL:HG21	45:QK:327:ASP:HB3	1.83	0.61
45:RG:320:ARG:HG2	45:RG:356:ASN:HB3	1.82	0.61
46:RH:309:ARG:NH2	46:RH:426:GLN:O	2.25	0.61
46:RJ:8:GLN:HE22	46:RJ:17:GLY:HA3	1.65	0.61
46:RL:10:GLY:O	46:RL:14:ASN:ND2	2.34	0.61
46:RL:167:PHE:CE1	46:RL:233:MET:HG3	2.35	0.61
46:SD:200:MET:HG3	46:SD:266:PHE:HB2	1.82	0.61
45:SE:138:PHE:HZ	45:SE:235:ILE:HD12	1.66	0.61
45:SI:204:LEU:HD23	45:SI:302:MET:HE1	1.82	0.61
45:SK:21:TRP:HZ3	45:SK:63:PRO:HB3	1.63	0.61
45:SK:98:ASP:O	45:SK:105:ARG:NH1	2.34	0.61
45:TC:288:VAL:HG11	45:TC:327:ASP:HB3	1.81	0.61
46:TL:173:PRO:HG2	46:TL:380:ARG:HE	1.64	0.61
46:TL:189:VAL:HA	46:TL:192:LEU:HG	1.83	0.61
46:UB:190:HIS:CE1	46:UB:411:ALA:HB1	2.36	0.61
46:UN:97:ALA:HB2	46:UN:143:THR:HB	1.83	0.61
45:VK:264:ARG:CZ	45:VK:264:ARG:HA	2.30	0.61
46:VL:77:ARG:NH2	46:VL:83:GLN:OE1	2.34	0.61
46:VL:371:SER:O	46:VL:422:TYR:OH	2.16	0.61
46:WB:114:ASP:OD1	46:WB:115:SER:N	2.33	0.61
46:WJ:77:ARG:NH1	46:WJ:83:GLN:OE1	2.32	0.61
4:1D:177:THR:HG21	46:EF:47:ILE:HG22	1.83	0.60
31:2I:103:ARG:HH21	46:GF:297:LYS:HA	1.66	0.60
14:2V:99:PRO:HG2	45:LE:409:VAL:HG11	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:3X:90:ARG:NH2	34:6R:47:GLU:O	2.33	0.60
27:4C:224:LYS:O	45:KM:221:ARG:NH2	2.34	0.60
36:5B:68:ASP:HA	37:5F:69:LYS:NZ	2.16	0.60
37:5E:116:TYR:HE1	45:NA:85:GLN:HA	1.66	0.60
10:6Q:54:VAL:O	10:6Q:157:HIS:ND1	2.29	0.60
34:7R:259:ASN:HB2	34:7R:351:ASN:HB2	1.83	0.60
45:AE:88:HIS:CE1	45:AE:90:GLU:HG2	2.35	0.60
45:AM:2:ARG:HH21	45:AM:243:ARG:HA	1.66	0.60
45:BA:265:ILE:HG22	45:BA:380:ASN:HD21	1.66	0.60
46:BJ:73:MET:HA	46:BJ:76:VAL:HG12	1.83	0.60
45:BM:88:HIS:CE1	45:CM:280:LYS:HZ1	2.19	0.60
45:BM:271:SER:HB2	45:BM:377:MET:HB3	1.82	0.60
45:CK:206:ASN:OD1	47:CK:501:GTP:N2	2.31	0.60
46:CL:55:THR:HG23	46:DL:283:ALA:HA	1.83	0.60
46:EF:128:ASP:OD1	46:EF:129:CYS:N	2.34	0.60
45:FM:241:SER:OG	45:FM:250:VAL:O	2.14	0.60
46:FN:169:VAL:HG12	46:FN:202:ILE:HB	1.81	0.60
45:GG:358:GLN:NE2	45:GG:359:PRO:O	2.32	0.60
46:HB:73:MET:HE1	46:HB:92:PHE:HB3	1.83	0.60
46:HB:86:ARG:HH12	46:IB:281:TYR:HB3	1.64	0.60
45:HC:76:ASP:OD2	46:HD:46:ARG:NH2	2.34	0.60
45:II:180:ALA:HA	46:IJ:350:LYS:NZ	2.16	0.60
46:IJ:139:LEU:HD13	46:IJ:168:SER:HB3	1.83	0.60
45:JC:221:ARG:HA	45:JC:221:ARG:NH1	2.16	0.60
46:KL:263:LEU:HG	46:KL:422:TYR:HE1	1.66	0.60
46:KN:199:CYS:HB2	46:KN:265:PHE:HA	1.83	0.60
45:LK:387:VAL:HG12	45:LK:390:ARG:HH22	1.65	0.60
45:MK:377:MET:HE3	45:MK:379:SER:HB3	1.83	0.60
46:OJ:371:SER:O	46:OJ:422:TYR:OH	2.19	0.60
46:OL:5:VAL:HG12	46:OL:62:ARG:HD3	1.82	0.60
45:PC:292:THR:HG21	45:PC:331:SER:HB3	1.80	0.60
46:PD:209:ASP:HB3	46:PD:213:ARG:HH12	1.65	0.60
46:PN:58:ARG:HH22	46:PN:84:LEU:HA	1.65	0.60
46:PN:86:ARG:NH1	46:QL:278:SER:HA	2.16	0.60
45:QA:28:HIS:NE2	45:QA:48:ALA:O	2.34	0.60
45:QC:319:TYR:HB3	45:QC:323:VAL:HG11	1.83	0.60
46:QH:284:LEU:HD11	46:QH:362:LYS:HB2	1.81	0.60
46:QL:55:THR:HG23	46:RL:283:ALA:HA	1.82	0.60
46:RB:117:LEU:HB3	46:RB:121:ARG:HH12	1.65	0.60
45:RE:217:LEU:HD11	45:RE:367:ASP:HB2	1.83	0.60
46:RH:268:ILE:HG22	46:RH:368:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:11:GLN:NE2	46:RJ:12:CYS:SG	2.74	0.60
45:RM:324:VAL:HG12	45:RM:326:LYS:HG3	1.83	0.60
46:SB:3:GLU:OE1	46:SB:62:ARG:NH1	2.34	0.60
46:SH:260:PHE:HB2	46:SH:263:LEU:HD13	1.82	0.60
46:SL:149:THR:OG1	46:SL:191:GLN:OE1	2.18	0.60
46:TJ:414:ASN:O	46:TJ:418:LEU:HG	2.01	0.60
46:UB:178:THR:HB	46:UB:181:GLU:HG3	1.82	0.60
46:UF:376:GLU:HA	46:UF:379:LYS:HG2	1.83	0.60
45:UM:205:ASP:OD1	45:UM:206:ASN:N	2.34	0.60
45:CE:116:ASP:OD1	45:CE:117:LEU:N	2.34	0.60
14:OV:91:GLY:HA3	46:LN:194:GLU:HB3	1.82	0.60
24:1P:222:LEU:HD12	45:TG:282:TYR:CZ	2.35	0.60
5:2E:46:ASP:HB3	34:5R:379:LYS:HE3	1.81	0.60
45:AK:88:HIS:CE1	45:AK:90:GLU:HG2	2.36	0.60
45:BC:69:ASP:OD1	45:BC:70:LEU:N	2.33	0.60
45:BC:331:SER:O	45:BC:335:ILE:HG12	2.00	0.60
46:BL:60:VAL:HG21	46:BL:86:ARG:NE	2.16	0.60
46:CB:132:GLY:HA3	46:CB:163:ILE:HG22	1.82	0.60
45:CC:292:THR:HG21	45:CC:331:SER:HB3	1.82	0.60
46:CH:252:LYS:HD2	45:CI:101:ASN:HB2	1.83	0.60
46:CL:31:ASP:OD1	46:CL:35:THR:N	2.30	0.60
45:CM:40:LYS:HE3	45:CM:40:LYS:HA	1.82	0.60
46:DB:331:LEU:HD11	45:DC:177:VAL:HG22	1.82	0.60
46:DH:8:GLN:NE2	46:DH:14:ASN:OD1	2.33	0.60
45:DK:311:LYS:HE3	45:DK:342:GLN:HB3	1.82	0.60
46:EF:107:THR:OG1	46:EF:108:GLU:OE1	2.19	0.60
46:EN:207:LEU:HD13	46:EN:225:LEU:HB3	1.84	0.60
46:FD:309:ARG:H	46:FD:372:THR:HG1	1.49	0.60
46:FF:285:THR:OG1	46:FF:288:GLU:OE1	2.19	0.60
46:GD:213:ARG:HH21	46:GD:297:LYS:HE3	1.65	0.60
46:GD:399:THR:HA	46:GD:403:MET:O	2.01	0.60
45:GE:325:PRO:C	45:GE:326:LYS:HE2	2.22	0.60
46:GN:257:LEU:HD11	46:GN:314:SER:HB2	1.83	0.60
46:HB:130:LEU:HD12	46:HB:131:GLN:H	1.65	0.60
45:HG:288:VAL:HG11	45:HG:327:ASP:HB3	1.82	0.60
46:HL:273:LEU:H	46:HL:292:GLN:HE22	1.47	0.60
46:IH:273:LEU:H	46:IH:292:GLN:HE22	1.48	0.60
45:IK:207:GLU:OE2	45:IK:304:LYS:HD3	2.01	0.60
46:JF:207:LEU:HD13	46:JF:225:LEU:HB3	1.83	0.60
45:KA:271:SER:HB3	45:KA:377:MET:HB3	1.81	0.60
46:KJ:218:THR:HG23	46:KJ:219:THR:HG23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KM:167:LEU:HG	45:KM:200:VAL:HB	1.83	0.60
46:LD:114:ASP:OD1	46:LD:115:SER:N	2.35	0.60
46:LJ:83:GLN:O	46:MJ:281:TYR:OH	2.17	0.60
46:OJ:2:ARG:HH21	46:OJ:46:ARG:HH12	1.49	0.60
46:PD:224:ASP:HA	46:PD:227:HIS:CD2	2.35	0.60
45:QC:20:CYS:HA	45:QC:232:ALA:HB1	1.81	0.60
46:RD:73:MET:HA	46:RD:76:VAL:HG12	1.82	0.60
46:RL:67:ASP:O	46:RL:92:PHE:HA	2.00	0.60
45:SM:48:ALA:HB1	45:SM:243:ARG:HB2	1.83	0.60
45:TI:116:ASP:OD1	45:TI:117:LEU:N	2.31	0.60
46:UL:173:PRO:HD3	46:UL:380:ARG:HE	1.66	0.60
45:VI:222:PRO:HD2	46:VJ:324:LYS:HD3	1.83	0.60
46:WD:318:ARG:HG2	46:WD:358:PRO:HD3	1.82	0.60
45:WE:27:GLU:OE2	45:WE:243:ARG:NH1	2.33	0.60
46:WF:362:LYS:HG2	46:WF:363:MET:HG3	1.83	0.60
46:WJ:67:ASP:O	46:WJ:92:PHE:HA	2.00	0.60
19:1J:80:LYS:HZ1	45:IC:373:ARG:HB2	1.67	0.60
26:1W:242:LEU:HD21	34:7R:15:HIS:ND1	2.15	0.60
25:3R:404:ARG:NH2	45:DK:57:GLY:O	2.34	0.60
35:4S:144:ILE:HD12	35:4S:144:ILE:H	1.66	0.60
37:5G:46:LEU:HG	37:5G:47:GLU:H	1.66	0.60
45:AA:89:PRO:HD2	45:BA:280:LYS:HZ3	1.67	0.60
46:AB:375:GLN:HE22	46:AB:419:VAL:HA	1.65	0.60
46:AD:238:CYS:SG	46:AD:318:ARG:HD3	2.41	0.60
46:AN:86:ARG:HD2	46:BN:281:TYR:CD1	2.35	0.60
46:BB:253:LEU:O	46:BB:257:LEU:HB2	2.01	0.60
46:BH:268:ILE:HG13	46:BH:300:MET:HG3	1.82	0.60
45:BK:69:ASP:OD1	45:BK:70:LEU:N	2.34	0.60
45:CC:406:HIS:HA	45:CC:409:VAL:HG12	1.83	0.60
45:DE:123:ARG:NH1	45:DE:161:TYR:OH	2.33	0.60
45:DK:319:TYR:HB3	45:DK:323:VAL:HG11	1.83	0.60
46:DL:1:MET:N	46:DL:3:GLU:OE1	2.26	0.60
46:EF:114:ASP:OD1	46:EF:115:SER:N	2.34	0.60
46:EJ:221:THR:HG23	46:EJ:224:ASP:H	1.67	0.60
46:FN:67:ASP:OD1	46:FN:68:LEU:N	2.33	0.60
45:GK:101:ASN:HA	45:GK:144:GLY:H	1.65	0.60
45:HE:251:ASP:H	45:HE:254:GLU:HB2	1.65	0.60
45:II:74:VAL:O	45:II:78:VAL:HG23	2.02	0.60
45:II:268:MET:HG3	45:II:380:ASN:HB2	1.83	0.60
45:KG:271:SER:HA	45:KG:302:MET:HG3	1.82	0.60
46:KH:222:TYR:O	46:KH:226:ASN:ND2	2.24	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LC:116:ASP:OD1	45:LC:117:LEU:N	2.33	0.60
45:LK:351:PHE:HB2	46:LN:176:SER:HB3	1.82	0.60
46:MF:156:ARG:NH2	46:MF:197:ASP:OD2	2.25	0.60
45:MG:407:TRP:HZ2	46:MH:258:ILE:HD11	1.65	0.60
46:MH:73:MET:SD	46:MH:92:PHE:HB3	2.41	0.60
46:MH:211:CYS:SG	46:MH:220:PRO:HB3	2.40	0.60
45:NK:11:GLN:NE2	46:NL:245:GLN:O	2.34	0.60
45:OA:169:PHE:HA	45:OA:202:VAL:HG22	1.84	0.60
46:PH:256:ASN:HD22	46:PH:350:LYS:HE3	1.66	0.60
45:PK:51:THR:O	45:PK:64:ARG:NH1	2.34	0.60
45:QE:56:THR:HG23	45:QE:58:ALA:H	1.65	0.60
46:RB:54:ALA:HA	46:SB:283:ALA:HB2	1.82	0.60
46:RB:289:LEU:HD13	46:RB:365:VAL:HG23	1.83	0.60
46:RB:374:ILE:HG22	46:RB:378:PHE:HE2	1.65	0.60
45:RG:64:ARG:NH1	45:RG:129:CYS:SG	2.74	0.60
45:SC:339:ARG:NH1	45:SC:339:ARG:O	2.35	0.60
45:SG:392:ASP:HA	45:SG:422:ARG:HH12	1.66	0.60
46:SH:68:LEU:HD12	46:SH:93:GLY:HA3	1.84	0.60
45:SK:56:THR:HG23	45:SK:58:ALA:H	1.66	0.60
45:SK:429:GLU:HA	45:SK:432:TYR:HD2	1.67	0.60
45:TA:64:ARG:NH1	45:TA:129:CYS:SG	2.74	0.60
45:TA:254:GLU:HG2	46:TB:98:GLY:HA2	1.82	0.60
45:TI:298:PRO:HA	45:TI:301:MET:HE1	1.83	0.60
46:TL:91:VAL:HG21	46:TL:116:VAL:HB	1.82	0.60
46:UD:316:LEU:HD13	46:UD:352:SER:HB2	1.82	0.60
45:UG:258:ASN:HD22	46:UH:179:VAL:HG22	1.66	0.60
46:UJ:86:ARG:HH21	46:UJ:87:PRO:HG2	1.65	0.60
46:UN:132:GLY:HA2	46:UN:162:ARG:HB3	1.83	0.60
46:VB:117:LEU:HA	46:VB:120:VAL:HG22	1.82	0.60
46:VB:221:THR:HG23	46:VB:224:ASP:H	1.66	0.60
46:VH:114:ASP:OD1	46:VH:115:SER:N	2.34	0.60
46:VN:114:ASP:OD1	46:VN:115:SER:N	2.34	0.60
45:WA:178:SER:HB2	46:WB:347:ASN:HD21	1.66	0.60
46:WB:153:SER:HB2	46:WB:191:GLN:HE21	1.66	0.60
46:WD:143:THR:OG1	49:WD:501:GDP:O1B	2.19	0.60
24:1P:391:ARG:HB3	45:TA:370:LYS:HE2	1.81	0.60
21:2L:658:ARG:HH21	46:BN:42:LEU:HA	1.64	0.60
30:3H:220:ARG:HG2	45:MG:84:ARG:HD3	1.83	0.60
37:5F:29:LYS:HD2	37:5F:30:PRO:HD2	1.83	0.60
40:6G:148:ASP:OD1	40:6G:149:ALA:N	2.32	0.60
45:AC:322:ASP:OD1	45:AC:373:ARG:NH1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:108:TYR:O	45:AI:112:LYS:NZ	2.34	0.60
45:AI:326:LYS:HG2	46:AL:220:PRO:HD2	1.83	0.60
46:AN:55:THR:HG23	46:BN:283:ALA:HA	1.84	0.60
45:BK:56:THR:OG1	45:CK:282:TYR:O	2.16	0.60
46:DB:77:ARG:NH1	46:DB:85:PHE:O	2.35	0.60
46:DB:222:TYR:O	46:DB:226:ASN:ND2	2.28	0.60
45:EA:284:GLU:HG3	45:EA:286:LEU:HD22	1.84	0.60
46:EL:203:ASP:HB3	46:EL:301:CYS:HA	1.83	0.60
46:EL:222:TYR:O	46:EL:226:ASN:ND2	2.30	0.60
46:FB:42:LEU:HA	46:FB:45:GLU:HG3	1.83	0.60
45:FE:292:THR:HG21	45:FE:331:SER:HB3	1.83	0.60
46:FH:73:MET:HA	46:FH:76:VAL:HG12	1.82	0.60
46:FH:90:PHE:HB3	46:FH:92:PHE:HE1	1.66	0.60
45:FK:55:GLU:HG3	45:FK:57:GLY:H	1.66	0.60
45:FM:188:ILE:HD12	45:FM:425:LEU:HD11	1.81	0.60
46:GB:274:THR:HB	46:GB:282:ARG:HH11	1.66	0.60
45:GK:55:GLU:O	45:HK:285:GLN:NE2	2.34	0.60
45:HE:100:ALA:HA	46:HF:252:LYS:HZ3	1.66	0.60
45:HM:265:ILE:HG22	45:HM:380:ASN:HD21	1.66	0.60
46:HN:207:LEU:HB3	46:HN:225:LEU:HD22	1.84	0.60
45:IC:260:VAL:HB	46:IF:397:TRP:CZ2	2.36	0.60
45:IE:167:LEU:HD13	45:IE:200:VAL:HB	1.83	0.60
46:IH:167:PHE:HE2	46:IH:233:MET:HG2	1.67	0.60
46:JN:149:THR:HA	46:JN:152:ILE:HD12	1.83	0.60
45:KI:174:SER:HB3	45:KI:177:VAL:O	2.01	0.60
45:LC:210:TYR:OH	46:LD:323:THR:OG1	2.19	0.60
45:LI:119:LEU:HD11	45:LI:156:ARG:HG2	1.83	0.60
45:LM:244:PHE:HB2	45:LM:356:ASN:HD21	1.65	0.60
45:MK:288:VAL:HA	45:MK:291:ILE:HG12	1.81	0.60
46:ND:148:GLY:O	46:ND:152:ILE:HD12	2.01	0.60
46:NF:64:ILE:HA	46:NF:89:ASN:HB3	1.83	0.60
45:NM:121:ARG:HD2	45:NM:124:LYS:NZ	2.16	0.60
45:OC:256:GLN:HG2	46:OF:397:TRP:HH2	1.66	0.60
46:OF:179:VAL:HG13	46:OF:180:VAL:HG13	1.83	0.60
45:QE:188:ILE:HD12	45:QE:425:LEU:HD11	1.82	0.60
45:QK:292:THR:HG21	45:QK:331:SER:HB3	1.83	0.60
45:RC:30:ILE:HA	45:RC:36:MET:HE1	1.83	0.60
45:RC:109:THR:O	45:RC:112:LYS:NZ	2.34	0.60
45:RE:296:PHE:HE1	45:RE:377:MET:HG3	1.65	0.60
46:RJ:178:THR:HB	46:RJ:181:GLU:HG3	1.84	0.60
46:TJ:258:ILE:HB	45:TK:407:TRP:HH2	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TM:64:ARG:NH1	45:TM:129:CYS:SG	2.74	0.60
45:UG:244:PHE:HB2	45:UG:356:ASN:HD21	1.65	0.60
46:UL:102:ALA:O	46:UL:106:TYR:HB2	2.00	0.60
46:UN:8:GLN:NE2	46:UN:136:THR:OG1	2.35	0.60
46:VB:164:MET:HE3	46:VB:196:ALA:HA	1.82	0.60
46:VD:70:PRO:HA	46:VD:73:MET:SD	2.42	0.60
45:VI:336:LYS:HD3	45:VI:351:PHE:HE1	1.66	0.60
46:VJ:405:GLU:OE2	46:VJ:409:THR:OG1	2.18	0.60
46:WL:139:LEU:HD13	46:WL:168:SER:HB3	1.83	0.60
45:CE:244:PHE:HB2	45:CE:356:ASN:HD21	1.67	0.60
19:1J:153:GLU:HB3	39:6F:127:TRP:HZ2	1.65	0.60
25:2R:249:LYS:HG2	45:BG:58:ALA:HB1	1.82	0.60
25:3R:465:GLU:HG2	46:EL:79:GLY:HA2	1.83	0.60
33:4F:159:PRO:O	46:IN:320:ARG:NH1	2.34	0.60
36:5C:27:LYS:HE2	36:5C:30:LYS:HB2	1.84	0.60
37:5G:54:LYS:HD3	46:OJ:227:HIS:CE1	2.36	0.60
35:5S:69:TYR:OH	45:WE:127:ASP:OD2	2.16	0.60
34:6R:287:ILE:HD12	34:6R:304:LEU:HD13	1.83	0.60
34:7R:534:HIS:ND1	34:7R:578:TYR:OH	2.33	0.60
46:AD:259:PRO:HG2	46:AD:311:LEU:HD21	1.83	0.60
45:AG:31:GLN:HG3	45:AG:32:PRO:HD2	1.84	0.60
46:AJ:135:ILE:HG13	46:AJ:152:ILE:HD11	1.82	0.60
45:AM:338:LYS:HZ2	45:AM:340:THR:H	1.50	0.60
45:BM:122:ILE:HD13	45:BM:157:LEU:HD21	1.84	0.60
46:CJ:86:ARG:NE	46:CJ:86:ARG:HA	2.16	0.60
45:FA:406:HIS:NE2	46:FB:261:PRO:HD3	2.16	0.60
46:FH:8:GLN:HE21	46:FH:14:ASN:HA	1.66	0.60
46:FJ:64:ILE:HD13	46:FJ:119:VAL:HG13	1.83	0.60
45:FK:326:LYS:HD3	46:FN:208:TYR:CG	2.36	0.60
45:GC:205:ASP:OD1	45:GC:206:ASN:N	2.35	0.60
46:HF:309:ARG:NH2	46:HF:426:GLN:O	2.33	0.60
45:HM:47:ASP:OD1	45:HM:50:ASN:ND2	2.35	0.60
45:IE:328:VAL:HG11	45:IE:353:VAL:HG21	1.81	0.60
46:JB:24:ILE:HA	46:JB:27:GLU:OE1	2.02	0.60
46:JN:63:ALA:O	46:JN:89:ASN:ND2	2.32	0.60
46:JN:370:ASN:OD1	46:JN:422:TYR:OH	2.18	0.60
46:KH:8:GLN:HE21	46:KH:65:LEU:HD21	1.65	0.60
46:KH:49:VAL:HG11	46:KH:241:ARG:HG2	1.82	0.60
45:KK:64:ARG:NH1	45:KK:129:CYS:SG	2.75	0.60
45:LG:39:ASP:OD1	45:LG:40:LYS:N	2.34	0.60
46:LN:337:ASN:HB3	46:LN:340:TYR:HD2	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MD:67:ASP:OD1	46:MD:68:LEU:N	2.33	0.60
45:ME:292:THR:HG21	45:ME:331:SER:HB3	1.83	0.60
46:MJ:148:GLY:O	46:MJ:152:ILE:HG12	2.01	0.60
46:NB:19:LYS:O	46:NB:22:GLU:HG3	2.01	0.60
46:NB:52:ASN:OD1	46:NB:62:ARG:NH1	2.34	0.60
45:NG:210:TYR:HE1	45:NG:227:LEU:HD21	1.66	0.60
46:NJ:67:ASP:O	46:NJ:92:PHE:HA	2.01	0.60
45:NK:169:PHE:HA	45:NK:202:VAL:HG22	1.84	0.60
47:NK:501:GTP:O1G	46:NL:252:LYS:NZ	2.33	0.60
46:NL:96:GLY:O	46:NL:103:LYS:NZ	2.34	0.60
45:OG:249:ASN:ND2	46:OJ:11:GLN:OE1	2.32	0.60
46:OL:217:LEU:HA	46:OL:276:ARG:HH21	1.67	0.60
46:ON:135:ILE:HG13	46:ON:152:ILE:HD11	1.83	0.60
45:QE:15:GLN:NE2	47:QE:501:GTP:O6	2.35	0.60
46:RB:326:VAL:O	46:RB:330:MET:HG2	2.01	0.60
45:RG:371:VAL:HG12	45:RG:373:ARG:H	1.67	0.60
46:RL:178:THR:HB	46:RL:181:GLU:HG3	1.82	0.60
45:RM:56:THR:HG23	45:RM:58:ALA:H	1.66	0.60
46:SF:256:ASN:OD1	45:SG:181:VAL:HG22	2.01	0.60
45:TA:188:ILE:HD12	45:TA:425:LEU:HD11	1.82	0.60
46:TL:241:ARG:NH1	46:TL:242:PHE:HD2	2.00	0.60
46:TL:345:ILE:HG22	46:TL:348:ASN:HB3	1.83	0.60
45:UA:326:LYS:HE3	46:UB:220:PRO:HD2	1.81	0.60
46:UB:240:LEU:HD21	46:UB:249:ASP:HA	1.82	0.60
46:UD:101:TRP:HB3	46:UD:398:TYR:HE1	1.67	0.60
46:UF:109:GLY:O	46:UF:113:ILE:HG23	2.01	0.60
45:UM:33:ASP:HA	45:UM:85:GLN:HE21	1.67	0.60
45:VA:101:ASN:HA	45:VA:144:GLY:H	1.65	0.60
46:VB:149:THR:HG21	46:VB:191:GLN:HE21	1.65	0.60
45:VE:339:ARG:O	45:VE:342:GLN:NE2	2.34	0.60
45:VE:350:GLY:HA2	46:VH:179:VAL:HG12	1.83	0.60
46:VF:41:ASP:OD1	46:VF:42:LEU:N	2.34	0.60
46:WJ:2:ARG:HB2	46:WJ:131:GLN:HG2	1.83	0.60
45:WK:50:ASN:O	45:WK:64:ARG:NH2	2.20	0.60
45:WK:387:VAL:HA	45:WK:390:ARG:HG2	1.82	0.60
46:WL:48:ASN:O	46:WL:62:ARG:NH1	2.35	0.60
46:WN:158:GLU:HG3	46:WN:159:TYR:CD1	2.36	0.60
37:5F:157:ARG:HH22	46:NH:37:HIS:HA	1.66	0.60
34:6R:497:GLN:HB2	34:6R:502:ARG:HH11	1.67	0.60
45:AM:141:VAL:HG11	45:AM:172:TYR:HD1	1.66	0.60
45:BC:98:ASP:OD2	45:BC:99:ALA:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DB:190:HIS:CD2	46:DB:411:ALA:HA	2.37	0.60
46:DJ:63:ALA:O	46:DJ:89:ASN:ND2	2.34	0.60
45:DK:31:GLN:HE22	45:DK:37:PRO:HB3	1.67	0.60
46:DL:344:TRP:HB3	46:DL:430:ALA:HB2	1.81	0.60
46:EF:258:ILE:HG13	45:EG:407:TRP:HE1	1.65	0.60
46:EJ:114:ASP:OD2	46:EJ:115:SER:N	2.35	0.60
46:EL:208:TYR:HE2	46:EL:225:LEU:HD11	1.65	0.60
45:FA:80:THR:O	45:FA:84:ARG:NH2	2.33	0.60
45:FC:206:ASN:OD1	47:FC:501:GTP:N2	2.33	0.60
45:FG:76:ASP:OD2	46:FH:46:ARG:NH2	2.35	0.60
46:FH:6:HIS:O	46:FH:63:ALA:HA	2.01	0.60
45:GG:221:ARG:HH22	46:GH:321:MET:HA	1.66	0.60
46:HB:100:ASN:ND2	46:HB:401:GLU:OE1	2.34	0.60
45:IG:74:VAL:HG23	45:IG:75:ILE:HD12	1.83	0.60
45:II:2:ARG:NH2	45:II:47:ASP:OD1	2.34	0.60
46:IJ:238:CYS:SG	46:IJ:318:ARG:HD3	2.42	0.60
45:KA:371:VAL:HG12	45:KA:373:ARG:H	1.67	0.60
45:KI:289:ALA:O	45:KI:293:ASN:ND2	2.34	0.60
46:LF:31:ASP:OD1	46:LF:35:THR:N	2.29	0.60
46:MB:149:THR:HG21	46:MB:191:GLN:HE21	1.67	0.60
45:MC:140:SER:OG	47:MC:501:GTP:O2B	2.19	0.60
46:MJ:273:LEU:H	46:MJ:292:GLN:HE22	1.47	0.60
45:NA:250:VAL:HG13	45:NA:254:GLU:HB2	1.82	0.60
45:NC:68:LEU:HD21	45:NC:118:CYS:HB2	1.83	0.60
46:NJ:103:LYS:NZ	46:NJ:401:GLU:OE2	2.33	0.60
45:OC:177:VAL:HG11	46:OD:324:LYS:NZ	2.16	0.60
45:OK:54:SER:HB3	45:OK:64:ARG:HE	1.66	0.60
45:OK:265:ILE:HG22	45:OK:380:ASN:HD21	1.66	0.60
45:PA:141:VAL:HG11	45:PA:172:TYR:HD1	1.66	0.60
45:PA:315:CYS:HB2	45:PA:377:MET:HE2	1.83	0.60
45:PE:121:ARG:HA	45:PE:121:ARG:NH1	2.17	0.60
45:PE:346:TRP:CD1	46:PH:391:ARG:HG3	2.36	0.60
45:PI:64:ARG:NH2	45:PI:129:CYS:SG	2.68	0.60
46:PL:388:MET:N	46:PL:388:MET:HE2	2.16	0.60
45:QI:141:VAL:HG11	45:QI:172:TYR:HD1	1.65	0.60
46:QJ:5:VAL:HG12	46:QJ:62:ARG:HD3	1.81	0.60
46:QJ:66:MET:HE3	46:QJ:151:LEU:HD13	1.84	0.60
45:QM:296:PHE:HE1	45:QM:377:MET:HG3	1.65	0.60
45:RA:135:PHE:HB2	45:RA:166:LYS:HG2	1.84	0.60
46:RF:268:ILE:HG22	46:RF:368:VAL:HG22	1.82	0.60
46:SF:2:ARG:HH12	45:SG:71:GLU:HG2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SH:324:LYS:NZ	45:SI:214:ARG:HB3	2.15	0.60
45:SI:292:THR:HG21	45:SI:331:SER:HB3	1.83	0.60
46:SN:387:ALA:HA	46:SN:390:ARG:HE	1.66	0.60
45:TK:89:PRO:HG2	45:UK:280:LYS:HD3	1.84	0.60
46:UF:324:LYS:HD3	45:UG:222:PRO:HD2	1.83	0.60
45:UK:2:ARG:HH22	46:UL:70:PRO:HD2	1.66	0.60
46:UN:164:MET:HB2	46:UN:197:ASP:H	1.67	0.60
45:VG:346:TRP:CD1	46:VJ:391:ARG:HG3	2.37	0.60
46:VH:260:PHE:HB2	46:VH:263:LEU:HD13	1.84	0.60
46:VN:140:GLY:O	46:VN:184:ASN:ND2	2.33	0.60
45:WE:222:PRO:HD2	46:WF:324:LYS:HG3	1.84	0.60
45:DC:280:LYS:HD2	45:DC:283:HIS:CD2	2.36	0.60
2:0B:203:THR:HG21	45:KI:285:GLN:OE1	2.01	0.60
7:0G:114:LYS:NZ	45:JM:366:GLY:O	2.34	0.60
20:1K:249:GLU:OE2	46:GB:280:GLN:NE2	2.34	0.60
30:2H:191:LEU:HD23	46:AD:360:GLY:HA2	1.84	0.60
22:2M:67:TYR:HE1	46:IJ:80:PRO:HB3	1.65	0.60
34:4R:318:TYR:HE1	46:CF:273:LEU:HD23	1.65	0.60
37:5G:72:ASP:OD2	37:5G:73:ARG:N	2.34	0.60
46:BD:273:LEU:H	46:BD:292:GLN:HE22	1.49	0.60
45:BE:210:TYR:CZ	46:BF:324:LYS:HG2	2.37	0.60
46:BJ:222:TYR:O	46:BJ:226:ASN:ND2	2.24	0.60
45:BM:222:PRO:C	46:BN:322:SER:HG	2.04	0.60
46:CL:273:LEU:H	46:CL:292:GLN:NE2	1.97	0.60
46:DB:174:LYS:HB3	46:DB:205:GLU:HG3	1.84	0.60
45:DG:324:VAL:HG11	45:DG:326:LYS:HE2	1.84	0.60
46:DL:324:LYS:HG3	45:DM:222:PRO:HD2	1.83	0.60
45:DM:188:ILE:HD12	45:DM:425:LEU:HD11	1.82	0.60
46:DN:4:ILE:O	46:DN:62:ARG:NH2	2.35	0.60
45:EI:399:TYR:O	45:EI:402:ARG:NH1	2.35	0.60
46:FD:167:PHE:CE1	46:FD:233:MET:HG2	2.35	0.60
45:FG:325:PRO:HB2	46:FJ:208:TYR:OH	2.02	0.60
45:HA:140:SER:OG	47:HA:501:GTP:O2B	2.19	0.60
46:HF:178:THR:HB	46:HF:181:GLU:HG3	1.81	0.60
45:HM:292:THR:HG21	45:HM:331:SER:HB3	1.83	0.60
45:IG:362:VAL:HB	45:IG:370:LYS:HB3	1.83	0.60
46:IJ:88:ASP:OD1	46:IJ:89:ASN:N	2.34	0.60
46:IN:226:ASN:HD21	49:IN:501:GDP:HN1	1.48	0.60
46:JJ:226:ASN:HD21	49:JJ:501:GDP:HN1	1.48	0.60
45:LA:55:GLU:OE2	45:LA:61:HIS:NE2	2.34	0.60
46:LB:178:THR:HB	46:LB:181:GLU:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LM:174:SER:HB2	45:LM:177:VAL:O	2.01	0.60
46:MH:289:LEU:HD13	46:MH:365:VAL:HG23	1.84	0.60
45:NA:7:ILE:HB	45:NA:137:VAL:HG12	1.84	0.60
45:NE:101:ASN:HA	45:NE:144:GLY:H	1.67	0.60
46:NF:222:TYR:O	46:NF:226:ASN:ND2	2.35	0.60
46:NF:258:ILE:HD12	46:NF:264:HIS:HB3	1.83	0.60
45:NG:103:PHE:HE1	45:NG:148:GLY:HA2	1.67	0.60
45:NG:192:HIS:HA	45:NG:195:LEU:HD23	1.84	0.60
46:NL:238:CYS:SG	46:NL:239:CYS:N	2.74	0.60
46:OH:217:LEU:HG	46:OH:276:ARG:HH12	1.66	0.60
46:PB:200:MET:HG2	46:PB:266:PHE:HB2	1.83	0.60
45:PM:109:THR:OG1	45:PM:411:GLU:OE2	2.16	0.60
45:QC:288:VAL:HG21	45:QC:327:ASP:HB3	1.81	0.60
45:QI:175:PRO:HG3	45:QI:390:ARG:CZ	2.31	0.60
45:SA:226:ASN:ND2	45:SA:367:ASP:OD2	2.34	0.60
45:SG:76:ASP:OD1	45:SG:79:ARG:NH2	2.35	0.60
46:SJ:51:TYR:O	46:SJ:62:ARG:NH2	2.30	0.60
46:TH:389:PHE:HZ	46:TH:405:GLU:HG2	1.67	0.60
45:TM:241:SER:O	45:TM:249:ASN:ND2	2.31	0.60
45:UK:288:VAL:HG11	45:UK:327:ASP:HB3	1.83	0.60
45:UM:276:ILE:HD11	45:UM:280:LYS:HG3	1.84	0.60
45:VE:128:ASN:OD1	45:WE:285:GLN:NE2	2.34	0.60
45:WA:100:ALA:HA	46:WB:252:LYS:HD2	1.83	0.60
45:WA:210:TYR:OH	46:WB:323:THR:OG1	2.19	0.60
46:WF:49:VAL:HG11	46:WF:241:ARG:HG2	1.84	0.60
46:WJ:248:SER:HA	46:WJ:252:LYS:HG3	1.84	0.60
18:II:142:GLN:HG3	46:KF:320:ARG:HH21	1.67	0.60
10:1Q:33:HIS:HB3	35:4S:197:ARG:HH11	1.66	0.60
14:1V:24:ARG:NH2	45:MI:430:LYS:HD3	2.17	0.60
11:2S:150:GLN:NE2	45:WG:164:LYS:HG2	2.16	0.60
10:5Q:48:GLU:CG	10:5Q:161:ARG:HG2	2.32	0.60
45:AC:141:VAL:HG11	45:AC:172:TYR:HD1	1.67	0.60
46:AL:67:ASP:OD2	46:AL:72:THR:OG1	2.17	0.60
45:BA:11:GLN:NE2	47:BA:501:GTP:O1B	2.35	0.60
45:BE:329:ASN:ND2	46:BH:175:VAL:HA	2.15	0.60
45:BG:286:LEU:O	45:BG:373:ARG:NH1	2.35	0.60
45:CM:214:ARG:HA	45:CM:214:ARG:HH11	1.65	0.60
46:DB:161:ASP:O	46:DB:251:ARG:NH2	2.33	0.60
45:EK:91:GLN:HB3	45:EK:121:ARG:HH21	1.66	0.60
45:EK:384:ILE:HG22	45:EK:388:PHE:HE1	1.66	0.60
45:FM:265:ILE:HG22	45:FM:380:ASN:HD21	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:406:MET:O	46:FN:409:THR:OG1	2.16	0.60
46:GD:327:ASP:OD1	46:GD:328:GLU:N	2.34	0.60
45:GE:276:ILE:HD11	45:GE:280:LYS:HG3	1.84	0.60
45:GI:35:GLN:NE2	45:GI:36:MET:O	2.30	0.60
46:GJ:167:PHE:CE2	46:GJ:233:MET:HG2	2.36	0.60
45:HI:164:LYS:O	45:HI:166:LYS:NZ	2.35	0.60
45:HI:222:PRO:O	46:HJ:322:SER:HB2	2.02	0.60
46:HL:67:ASP:OD1	46:HL:68:LEU:N	2.34	0.60
46:HL:178:THR:HB	46:HL:181:GLU:HG3	1.83	0.60
45:HM:229:ARG:HH12	45:HM:233:GLN:HB2	1.67	0.60
46:HN:114:ASP:OD1	46:HN:115:SER:N	2.34	0.60
45:IG:292:THR:HG21	45:IG:331:SER:HB3	1.83	0.60
46:IH:5:VAL:HG12	46:IH:62:ARG:HD3	1.84	0.60
46:JB:198:GLU:HG2	46:JB:266:PHE:HE2	1.67	0.60
46:JJ:39:ASP:OD1	46:JJ:40:SER:N	2.34	0.60
46:JJ:114:ASP:OD1	46:JJ:115:SER:N	2.34	0.60
46:JL:73:MET:HA	46:JL:76:VAL:HG12	1.83	0.60
45:KK:396:ASP:OD1	45:KK:422:ARG:NE	2.23	0.60
45:MK:292:THR:HG21	45:MK:331:SER:HB2	1.83	0.60
45:OC:352:LYS:HZ3	46:OF:178:THR:HA	1.65	0.60
46:OF:164:MET:HE3	46:OF:196:ALA:HA	1.84	0.60
46:OH:83:GLN:O	46:PH:281:TYR:OH	2.20	0.60
45:OK:284:GLU:OE1	45:OK:286:LEU:HD22	2.02	0.60
45:OM:101:ASN:HA	45:OM:144:GLY:H	1.67	0.60
45:PE:209:ILE:HA	45:PE:212:ILE:HG22	1.83	0.60
46:QB:6:HIS:O	46:QB:63:ALA:HA	2.00	0.60
46:QB:86:ARG:NE	46:QB:87:PRO:HD2	2.17	0.60
46:QF:11:GLN:HE22	49:QF:501:GDP:H8	1.49	0.60
45:RE:367:ASP:OD1	45:RE:368:LEU:N	2.34	0.60
45:SG:280:LYS:HA	45:SG:283:HIS:CD2	2.34	0.60
45:SI:102:ASN:HD21	45:SI:411:GLU:HG3	1.66	0.60
46:TB:325:GLU:HA	46:TB:328:GLU:HG2	1.84	0.60
46:TF:31:ASP:OD1	46:TF:35:THR:N	2.34	0.60
46:UD:2:ARG:NH2	45:UE:70:LEU:O	2.34	0.60
45:UI:207:GLU:HB3	45:UI:304:LYS:HZ2	1.67	0.60
45:UK:173:PRO:O	45:UK:390:ARG:NH2	2.33	0.60
46:UL:10:GLY:O	46:UL:14:ASN:ND2	2.34	0.60
45:VE:101:ASN:HA	45:VE:144:GLY:H	1.65	0.60
45:VI:260:VAL:HB	46:VL:397:TRP:HZ2	1.67	0.60
45:VK:141:VAL:HG11	45:VK:172:TYR:HD1	1.66	0.60
45:WE:55:GLU:HG3	45:WE:57:GLY:H	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WN:309:ARG:H	46:WN:372:THR:HG1	1.49	0.60
2:0B:46:PHE:HE2	46:JH:77:ARG:HB2	1.65	0.60
3:0C:43:TYR:OH	46:DH:53:GLU:OE2	2.18	0.60
21:1L:427:ASN:HD22	45:CG:278:ALA:HB3	1.65	0.60
21:1L:901:LYS:H	46:CB:320:ARG:HH22	1.47	0.60
40:6G:174:GLN:HA	40:6G:177:ARG:HG2	1.84	0.60
45:AA:244:PHE:HB2	45:AA:356:ASN:HD21	1.66	0.60
45:AE:69:ASP:OD1	45:AE:70:LEU:N	2.34	0.60
45:AE:406:HIS:HA	45:AE:409:VAL:HG22	1.82	0.60
45:BG:69:ASP:OD1	45:BG:70:LEU:N	2.34	0.60
45:BG:265:ILE:HG22	45:BG:380:ASN:HD21	1.67	0.60
46:CB:324:LYS:HE2	45:CC:222:PRO:CD	2.31	0.60
46:CF:266:PHE:CE1	46:CF:370:ASN:HB2	2.37	0.60
45:CG:251:ASP:OD1	45:CG:252:ILE:N	2.33	0.60
45:CI:175:PRO:HB2	45:CI:176:GLN:OE1	2.02	0.60
45:CI:326:LYS:NZ	46:CJ:220:PRO:O	2.20	0.60
46:DB:52:ASN:OD1	46:DB:62:ARG:NH2	2.34	0.60
45:DI:242:LEU:HD11	45:DI:252:ILE:HG12	1.84	0.60
46:FB:207:LEU:HB3	46:FB:225:LEU:HD22	1.83	0.60
46:FH:68:LEU:HA	46:FH:93:GLY:H	1.67	0.60
45:GC:69:ASP:OD1	45:GC:70:LEU:N	2.33	0.60
45:HA:322:ASP:OD1	45:HA:373:ARG:NH1	2.34	0.60
46:HB:350:LYS:NZ	46:HB:351:SER:O	2.34	0.60
46:IH:103:LYS:HA	46:IH:107:THR:HG22	1.83	0.60
45:II:208:ALA:O	45:II:212:ILE:HD12	2.02	0.60
46:IJ:316:LEU:HD13	46:IJ:352:SER:HB2	1.84	0.60
45:IM:241:SER:HA	45:IM:356:ASN:HD21	1.65	0.60
45:JC:406:HIS:HA	45:JC:409:VAL:HG22	1.84	0.60
45:JK:272:TYR:HD2	45:JK:275:ILE:HD11	1.67	0.60
46:JL:222:TYR:O	46:JL:226:ASN:ND2	2.28	0.60
45:KG:167:LEU:HD23	45:KG:200:VAL:HB	1.84	0.60
46:LF:139:LEU:HD12	46:LF:170:VAL:HG12	1.84	0.60
45:ME:319:TYR:HB3	45:ME:323:VAL:HG11	1.84	0.60
46:MJ:67:ASP:O	46:MJ:92:PHE:HA	2.01	0.60
46:MN:67:ASP:O	46:MN:92:PHE:HA	2.01	0.60
45:NC:180:ALA:HA	46:ND:350:LYS:NZ	2.17	0.60
45:NE:325:PRO:HA	45:NE:328:VAL:HG22	1.83	0.60
45:NG:98:ASP:OD1	45:NG:99:ALA:N	2.35	0.60
45:NG:115:VAL:HG11	45:NG:152:LEU:HD23	1.83	0.60
46:OJ:179:VAL:HG13	46:OJ:180:VAL:HG13	1.84	0.60
45:OK:55:GLU:HG3	45:OK:57:GLY:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OK:337:THR:O	45:OK:339:ARG:NH1	2.34	0.60
45:PA:56:THR:HG23	45:PA:58:ALA:H	1.67	0.60
46:PN:285:THR:O	46:PN:289:LEU:HG	2.01	0.60
46:RB:200:MET:HG3	46:RB:266:PHE:HB2	1.83	0.60
46:RD:207:LEU:HB3	46:RD:225:LEU:HD22	1.84	0.60
46:RH:280:GLN:HG2	46:RH:281:TYR:HD1	1.67	0.60
46:RH:295:ASP:OD2	46:RH:297:LYS:NZ	2.34	0.60
46:SB:278:SER:HA	46:SB:281:TYR:HD2	1.67	0.60
46:SH:324:LYS:HZ1	45:SI:214:ARG:HB3	1.67	0.60
46:TF:46:ARG:NH2	45:TG:76:ASP:OD2	2.35	0.60
46:TJ:2:ARG:HD2	46:TJ:240:LEU:HD11	1.82	0.60
45:TM:226:ASN:HA	45:TM:229:ARG:HG2	1.83	0.60
46:WB:49:VAL:HG21	46:WB:241:ARG:HG2	1.83	0.60
46:WB:150:LEU:HB2	46:WB:154:LYS:NZ	2.16	0.60
46:WD:375:GLN:HE21	46:WD:419:VAL:HG13	1.65	0.60
46:WF:1:MET:N	46:WF:48:ASN:HD21	2.00	0.60
46:WH:58:ARG:HH12	46:WH:60:VAL:HB	1.67	0.60
46:WH:73:MET:HA	46:WH:76:VAL:HG12	1.83	0.60
45:WK:326:LYS:HE2	46:WN:220:PRO:HB2	1.83	0.60
46:WN:175:VAL:HG22	46:WN:205:GLU:HB3	1.83	0.60
23:2O:322:ARG:NH1	45:VE:364:PRO:HA	2.17	0.60
36:5C:65:THR:HG23	36:5C:68:ASP:H	1.67	0.60
37:5E:157:ARG:HH22	46:ND:37:HIS:HB2	1.66	0.60
37:5F:132:THR:OG1	46:OH:276:ARG:NH1	2.35	0.60
39:6F:84:ILE:O	46:JF:320:ARG:NH1	2.35	0.60
40:6G:231:ASN:HB2	40:6G:233:ARG:HH12	1.66	0.60
40:6G:281:THR:HG22	40:6G:284:LYS:NZ	2.17	0.60
45:AA:55:GLU:O	45:BA:285:GLN:NE2	2.35	0.60
46:AF:257:LEU:HD11	46:AF:314:SER:HB2	1.84	0.60
46:AN:294:PHE:HD2	46:AN:333:VAL:HG21	1.66	0.60
46:AN:309:ARG:NH2	46:AN:426:GLN:O	2.31	0.60
46:BH:137:HIS:NE2	46:BH:166:THR:OG1	2.33	0.60
45:BM:60:LYS:HZ1	45:CM:283:HIS:HA	1.67	0.60
45:CA:213:CYS:HA	45:CA:217:LEU:HD23	1.84	0.60
45:DA:109:THR:HG22	45:DA:110:ILE:HG23	1.84	0.60
46:DL:346:PRO:O	45:DM:394:LYS:NZ	2.35	0.60
46:EF:31:ASP:OD2	46:EF:35:THR:OG1	2.19	0.60
45:EK:328:VAL:O	45:EK:332:ILE:HD12	2.01	0.60
46:FF:166:THR:OG1	46:FF:199:CYS:SG	2.58	0.60
45:GI:326:LYS:NZ	46:GL:208:TYR:HB3	2.17	0.60
45:HA:292:THR:HG21	45:HA:331:SER:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IA:69:ASP:OD1	45:IA:70:LEU:N	2.35	0.60
46:JN:257:LEU:HD21	46:JN:314:SER:HB3	1.84	0.60
45:KG:222:PRO:CD	46:KH:324:LYS:HE2	2.23	0.60
46:KL:247:ASN:O	46:KL:252:LYS:NZ	2.32	0.60
46:LF:350:LYS:NZ	46:LF:352:SER:OG	2.33	0.60
45:LK:223:THR:HG22	45:LK:224:TYR:H	1.67	0.60
46:LN:31:ASP:OD1	46:LN:35:THR:N	2.33	0.60
45:NA:174:SER:OG	45:NA:206:ASN:OD1	2.19	0.60
45:NA:258:ASN:HD22	45:NA:352:LYS:HE3	1.66	0.60
46:NB:67:ASP:OD2	46:NB:72:THR:OG1	2.20	0.60
45:NE:222:PRO:HG2	46:NF:324:LYS:HB2	1.84	0.60
45:NI:328:VAL:O	45:NI:332:ILE:HG12	2.02	0.60
46:NN:179:VAL:HG13	46:NN:180:VAL:HG13	1.83	0.60
45:OE:250:VAL:HG13	45:OE:254:GLU:HB2	1.84	0.60
46:PB:135:ILE:HG13	46:PB:152:ILE:HD11	1.84	0.60
45:QG:67:PHE:HB2	45:QG:92:LEU:HD13	1.84	0.60
45:QG:287:SER:OG	45:QG:290:GLU:OE2	2.20	0.60
45:QI:292:THR:HG21	45:QI:331:SER:HB3	1.81	0.60
46:QJ:309:ARG:NH2	46:QJ:426:GLN:O	2.29	0.60
45:QK:133:GLN:HB3	45:QK:252:ILE:HD11	1.83	0.60
46:RB:178:THR:HB	46:RB:181:GLU:HG3	1.83	0.60
45:RG:81:GLY:O	45:RG:84:ARG:NH1	2.35	0.60
45:RG:223:THR:HG23	45:RG:225:THR:H	1.67	0.60
45:RG:270:SER:HB3	45:RG:378:ILE:HG22	1.83	0.60
45:SC:91:GLN:HG2	45:SC:121:ARG:HH21	1.67	0.60
45:SC:176:GLN:NE2	45:SC:207:GLU:OE2	2.35	0.60
46:SH:256:ASN:HD22	46:SH:350:LYS:HD2	1.66	0.60
46:SJ:101:TRP:HB2	46:SJ:184:ASN:HB3	1.84	0.60
46:SN:405:GLU:HA	46:SN:408:PHE:HD2	1.67	0.60
45:TC:326:LYS:HG2	46:TD:220:PRO:HD2	1.83	0.60
45:TI:271:SER:OG	45:TI:301:MET:HG3	2.01	0.60
45:UM:7:ILE:HD13	45:UM:153:LEU:HD21	1.82	0.60
46:UN:12:CYS:O	46:UN:16:ILE:HD12	2.02	0.60
46:VB:5:VAL:HG23	46:VB:62:ARG:HB3	1.84	0.60
46:VF:163:ILE:HG13	46:VF:251:ARG:HG2	1.84	0.60
45:VG:407:TRP:HH2	46:VH:254:ALA:HB1	1.67	0.60
45:WC:326:LYS:NZ	46:WF:220:PRO:O	2.31	0.60
45:WE:195:LEU:O	45:WE:264:ARG:NH2	2.35	0.60
27:2C:224:LYS:O	45:KI:221:ARG:NH2	2.30	0.59
1:3A:52:THR:HG21	34:6R:71:LYS:HB2	1.83	0.59
37:5G:29:LYS:HD2	37:5G:30:PRO:HD2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AA:322:ASP:OD1	45:AA:373:ARG:NH1	2.35	0.59
46:AB:178:THR:HB	46:AB:181:GLU:HG3	1.84	0.59
45:AG:116:ASP:OD1	45:AG:117:LEU:N	2.35	0.59
46:BF:164:MET:HB2	46:BF:197:ASP:H	1.66	0.59
46:BJ:6:HIS:NE2	46:BJ:8:GLN:OE1	2.34	0.59
45:BK:402:ARG:NH2	45:BK:415:GLU:OE2	2.34	0.59
45:BM:69:ASP:OD1	45:BM:70:LEU:N	2.35	0.59
45:CM:51:THR:HG23	45:CM:52:PHE:HD1	1.66	0.59
45:DE:11:GLN:HB2	45:DE:74:VAL:HG11	1.83	0.59
45:DM:242:LEU:HD11	45:DM:252:ILE:HG12	1.84	0.59
45:EG:33:ASP:HA	45:EG:85:GLN:HE21	1.67	0.59
45:FE:322:ASP:OD1	45:FE:373:ARG:NH1	2.34	0.59
46:FH:226:ASN:HD21	49:FH:501:GDP:HN1	1.48	0.59
46:FN:156:ARG:NH2	46:FN:159:TYR:O	2.30	0.59
46:GF:316:LEU:HD13	46:GF:352:SER:HB2	1.84	0.59
45:HC:296:PHE:HE1	45:HC:377:MET:HG3	1.67	0.59
45:HM:11:GLN:NE2	46:HN:247:ASN:OD1	2.34	0.59
46:IB:100:ASN:ND2	46:IB:401:GLU:OE1	2.35	0.59
45:IK:319:TYR:HB3	45:IK:323:VAL:HG21	1.84	0.59
46:IN:128:ASP:OD1	46:IN:129:CYS:N	2.35	0.59
46:IN:318:ARG:HD2	46:IN:354:CYS:HB3	1.83	0.59
46:JB:67:ASP:O	46:JB:92:PHE:HA	2.02	0.59
46:JB:212:PHE:HD1	46:JB:213:ARG:HH12	1.50	0.59
45:JC:90:GLU:HG3	45:JC:121:ARG:NH1	2.16	0.59
45:JI:88:HIS:HD2	45:KI:283:HIS:HB2	1.65	0.59
46:KB:207:LEU:HD13	46:KB:225:LEU:HB3	1.82	0.59
45:KC:15:GLN:NE2	47:KC:501:GTP:O6	2.34	0.59
46:KJ:222:TYR:O	46:KJ:226:ASN:ND2	2.35	0.59
45:NA:91:GLN:OE1	45:NA:91:GLN:N	2.35	0.59
45:NK:55:GLU:HG3	45:NK:57:GLY:H	1.67	0.59
45:OC:337:THR:O	45:OC:339:ARG:NH1	2.34	0.59
45:OE:169:PHE:HA	45:OE:202:VAL:HG22	1.83	0.59
46:OF:236:VAL:HG13	46:OF:237:THR:HG23	1.82	0.59
45:PC:260:VAL:HB	46:PF:397:TRP:CH2	2.36	0.59
46:PH:289:LEU:HD13	46:PH:365:VAL:HG23	1.84	0.59
46:PH:294:PHE:HE2	46:PH:333:VAL:HG11	1.67	0.59
46:PJ:67:ASP:OD1	46:PJ:68:LEU:N	2.35	0.59
46:QB:254:ALA:O	46:QB:258:ILE:HG12	2.01	0.59
45:QC:268:MET:HE1	45:QC:378:ILE:HG22	1.84	0.59
46:QF:273:LEU:O	46:QF:282:ARG:NH1	2.34	0.59
46:QJ:350:LYS:NZ	46:QJ:352:SER:OG	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QL:293:MET:HG3	46:QL:294:PHE:HD2	1.67	0.59
46:QN:86:ARG:NH2	46:RN:278:SER:OG	2.34	0.59
45:RI:320:ARG:HD3	45:RI:360:PRO:HG3	1.82	0.59
46:RL:350:LYS:NZ	46:RL:352:SER:OG	2.35	0.59
46:RL:370:ASN:OD1	46:RL:422:TYR:OH	2.20	0.59
46:SB:229:VAL:HG12	46:SB:233:MET:HE2	1.84	0.59
46:SF:166:THR:OG1	46:SF:199:CYS:SG	2.55	0.59
46:SF:215:LEU:HD21	46:SF:273:LEU:HD12	1.83	0.59
46:SH:324:LYS:HD2	45:SI:210:TYR:HD2	1.67	0.59
45:SK:396:ASP:HA	45:SK:422:ARG:NH2	2.16	0.59
46:SL:31:ASP:OD1	46:SL:32:PRO:HD2	2.01	0.59
45:TA:256:GLN:HB2	45:TA:260:VAL:HB	1.84	0.59
46:TB:317:PHE:HE2	46:TB:326:VAL:HG13	1.67	0.59
45:TC:116:ASP:OD1	45:TC:117:LEU:N	2.35	0.59
45:TI:55:GLU:O	45:UI:285:GLN:NE2	2.35	0.59
45:TK:101:ASN:HA	45:TK:144:GLY:H	1.67	0.59
46:VF:135:ILE:HG13	46:VF:152:ILE:HD11	1.83	0.59
46:VJ:316:LEU:HD13	46:VJ:352:SER:HB2	1.83	0.59
45:VK:221:ARG:NH1	46:VL:325:GLU:OE1	2.35	0.59
45:VK:226:ASN:HA	45:VK:229:ARG:HD2	1.84	0.59
45:VM:179:THR:HG21	46:VN:246:LEU:HD22	1.83	0.59
46:WF:309:ARG:NH1	46:WF:343:GLU:OE1	2.35	0.59
15:OX:1:MET:N	45:MA:249:ASN:HD22	2.01	0.59
14:IV:137:ASN:OD1	46:LL:262:ARG:NH2	2.35	0.59
30:2H:219:ILE:O	45:MC:84:ARG:NH2	2.35	0.59
37:5E:46:LEU:HG	37:5E:47:GLU:H	1.67	0.59
46:AF:60:VAL:HG21	46:AF:86:ARG:HG2	1.83	0.59
46:AF:238:CYS:SG	46:AF:318:ARG:NE	2.75	0.59
45:AG:352:LYS:HA	46:AJ:177:ASP:O	2.02	0.59
46:AH:194:GLU:OE2	46:AH:195:ASN:ND2	2.35	0.59
46:BD:164:MET:HE3	46:BD:196:ALA:HA	1.84	0.59
45:BG:242:LEU:HD11	45:BG:252:ILE:HD11	1.84	0.59
45:BM:394:LYS:NZ	46:BN:347:ASN:OD1	2.35	0.59
45:CA:18:ASN:OD1	45:CA:19:ALA:N	2.35	0.59
45:CK:387:VAL:HG12	45:CK:390:ARG:HH12	1.66	0.59
46:DB:258:ILE:HG13	46:DB:266:PHE:HZ	1.68	0.59
46:DD:421:GLU:HA	46:DD:424:GLN:HG2	1.84	0.59
46:DH:114:ASP:OD1	46:DH:115:SER:N	2.34	0.59
46:DJ:128:ASP:OD1	46:DJ:129:CYS:N	2.34	0.59
46:DJ:139:LEU:HD11	46:DJ:168:SER:HB3	1.83	0.59
46:FF:33:THR:O	46:FF:58:ARG:NH1	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HD:187:LEU:HD11	46:HD:408:PHE:HE1	1.67	0.59
46:HD:209:ASP:OD2	46:HD:213:ARG:NH1	2.35	0.59
45:HK:98:ASP:O	45:HK:105:ARG:NH1	2.35	0.59
46:IB:156:ARG:NH1	46:IB:197:ASP:OD2	2.35	0.59
45:IC:260:VAL:HB	46:IF:397:TRP:HZ2	1.66	0.59
45:KA:276:ILE:HG23	45:KA:280:LYS:HB2	1.85	0.59
45:KA:398:MET:HE3	45:KA:403:ALA:HB3	1.83	0.59
46:KF:55:THR:OG1	46:LF:282:ARG:O	2.20	0.59
45:KG:116:ASP:OD1	45:KG:117:LEU:N	2.35	0.59
45:KM:259:LEU:O	45:KM:380:ASN:ND2	2.34	0.59
46:LN:7:ILE:HG22	46:LN:64:ILE:HB	1.83	0.59
45:ME:174:SER:HB3	45:ME:177:VAL:O	2.02	0.59
46:ML:172:SER:O	46:ML:176:SER:OG	2.19	0.59
45:NC:132:LEU:O	45:NC:164:LYS:NZ	2.32	0.59
46:NF:326:VAL:O	46:NF:330:MET:HG2	2.01	0.59
45:OA:358:GLN:NE2	45:OA:359:PRO:O	2.35	0.59
46:OF:262:ARG:NH1	46:OF:421:GLU:OE1	2.35	0.59
45:OI:55:GLU:HG3	45:OI:57:GLY:H	1.66	0.59
45:PC:75:ILE:HG13	45:PC:94:SER:HB2	1.84	0.59
45:PG:214:ARG:HG2	45:PG:215:ARG:NH1	2.17	0.59
46:QB:317:PHE:HE1	46:QB:326:VAL:HG13	1.66	0.59
45:QC:119:LEU:HG	45:QC:156:ARG:NE	2.17	0.59
46:QH:16:ILE:HD12	46:QH:229:VAL:HG11	1.83	0.59
46:QL:225:LEU:HD13	46:QL:228:LEU:HD12	1.84	0.59
45:RA:89:PRO:HD3	45:SA:280:LYS:HD2	1.85	0.59
46:RB:254:ALA:O	46:RB:258:ILE:HG12	2.02	0.59
45:SE:296:PHE:HE1	45:SE:377:MET:HG3	1.67	0.59
45:TC:387:VAL:HA	45:TC:390:ARG:HG2	1.84	0.59
45:TG:108:TYR:O	45:TG:112:LYS:NZ	2.34	0.59
46:TH:32:PRO:O	46:TH:83:GLN:NE2	2.35	0.59
45:TI:69:ASP:OD1	45:TI:70:LEU:N	2.35	0.59
46:TL:178:THR:HB	46:TL:181:GLU:HG3	1.84	0.59
45:VI:251:ASP:OD1	45:VI:252:ILE:N	2.34	0.59
46:VJ:200:MET:HG3	46:VJ:266:PHE:HB2	1.84	0.59
46:WJ:309:ARG:NH1	46:WJ:343:GLU:OE1	2.34	0.59
45:DC:88:HIS:HB3	45:DC:91:GLN:HG2	1.84	0.59
1:0A:109:ASP:OD2	46:AB:276:ARG:NH2	2.35	0.59
2:0B:237:GLN:HA	46:JL:276:ARG:HH12	1.66	0.59
4:0D:224:ARG:CZ	34:7R:493:GLY:HA3	2.31	0.59
21:1L:555:LYS:HE2	46:BF:320:ARG:NH1	2.18	0.59
21:1L:894:ARG:NH1	45:CC:365:GLY:H	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:3B:62:THR:HA	45:LG:84:ARG:HH22	1.67	0.59
37:5H:74:ASP:O	37:5H:78:LEU:HB2	2.03	0.59
34:5R:463:SER:O	46:FJ:276:ARG:NH1	2.35	0.59
39:6F:39:LYS:HA	39:6F:60:LYS:HA	1.83	0.59
46:CD:290:THR:HA	46:CD:293:MET:HG3	1.84	0.59
46:CH:375:GLN:HG3	46:CH:379:LYS:HZ2	1.68	0.59
46:CL:336:LYS:HA	46:CL:336:LYS:HE3	1.83	0.59
45:EC:377:MET:HE1	45:EC:379:SER:HB3	1.84	0.59
46:GH:291:GLN:NE2	46:GH:295:ASP:OD2	2.35	0.59
45:HC:254:GLU:OE1	46:HF:99:ASN:ND2	2.35	0.59
46:HL:16:ILE:HD12	46:HL:229:VAL:HG11	1.84	0.59
45:IA:35:GLN:NE2	45:IA:36:MET:O	2.35	0.59
46:JJ:5:VAL:HG12	46:JJ:62:ARG:HD3	1.83	0.59
45:KK:88:HIS:CE1	45:KK:90:GLU:HG2	2.37	0.59
46:KL:31:ASP:OD1	46:KL:35:THR:N	2.28	0.59
45:KM:103:PHE:HB2	45:KM:186:ASN:HB3	1.84	0.59
45:LM:226:ASN:ND2	45:LM:367:ASP:OD2	2.35	0.59
46:MB:273:LEU:H	46:MB:292:GLN:HE22	1.50	0.59
45:MI:407:TRP:HZ2	46:MJ:258:ILE:HD11	1.66	0.59
45:MK:288:VAL:HG11	45:MK:327:ASP:HB3	1.84	0.59
45:MK:345:ASP:OD2	45:MK:346:TRP:N	2.36	0.59
45:NG:352:LYS:HE2	46:NJ:179:VAL:N	2.17	0.59
46:OH:282:ARG:NH1	46:OH:283:ALA:O	2.35	0.59
46:PD:86:ARG:HB3	46:PD:89:ASN:ND2	2.17	0.59
46:PH:73:MET:HA	46:PH:76:VAL:HG12	1.85	0.59
45:PK:292:THR:HG21	45:PK:331:SER:HB3	1.84	0.59
46:PN:207:LEU:HD22	46:PN:228:LEU:HD11	1.83	0.59
46:QB:1:MET:SD	46:QB:46:ARG:NH2	2.76	0.59
45:QC:15:GLN:NE2	47:QC:501:GTP:O6	2.35	0.59
46:QL:203:ASP:HB3	46:QL:301:CYS:HA	1.83	0.59
46:RJ:134:GLN:NE2	46:RJ:233:MET:SD	2.69	0.59
45:RK:312:TYR:CE1	45:RK:341:ILE:HG13	2.37	0.59
45:SC:322:ASP:OD1	45:SC:373:ARG:NE	2.35	0.59
45:SK:53:PHE:O	45:SK:64:ARG:NE	2.33	0.59
45:UE:89:PRO:HD2	45:VC:280:LYS:HE2	1.84	0.59
45:VC:167:LEU:HD13	45:VC:200:VAL:HB	1.83	0.59
45:VE:222:PRO:HG2	46:VF:324:LYS:HE2	1.85	0.59
45:WC:422:ARG:NH1	45:WC:422:ARG:O	2.35	0.59
45:WK:174:SER:HB2	45:WK:177:VAL:O	2.02	0.59
46:WN:190:HIS:ND1	46:WN:191:GLN:OE1	2.30	0.59
7:0G:101:TYR:CZ	46:JN:40:SER:HB3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:1N:16:ILE:HG22	46:IJ:48:ASN:HD22	1.66	0.59
26:2W:280:ASP:O	45:LK:221:ARG:NH1	2.36	0.59
23:3O:239:ILE:HG23	46:UN:280:GLN:HG2	1.84	0.59
14:3V:113:ARG:HG2	45:LA:263:PRO:HB2	1.82	0.59
36:5D:36:ARG:HG2	36:5D:37:ASP:H	1.66	0.59
37:5G:157:ARG:NH1	46:NL:36:TYR:O	2.35	0.59
37:5H:44:ARG:O	45:OK:373:ARG:NH2	2.34	0.59
35:5S:154:SER:HB3	35:5S:157:ILE:HD12	1.83	0.59
45:AC:76:ASP:OD2	46:AD:46:ARG:NH2	2.34	0.59
46:AF:128:ASP:OD1	46:AF:129:CYS:N	2.35	0.59
46:AN:128:ASP:OD1	46:AN:129:CYS:N	2.36	0.59
45:BA:131:GLY:O	45:BA:133:GLN:NE2	2.35	0.59
46:BD:11:GLN:O	46:BD:15:GLN:HG2	2.03	0.59
46:BF:167:PHE:CE1	46:BF:233:MET:HG2	2.38	0.59
45:CG:208:ALA:HA	45:CG:304:LYS:NZ	2.18	0.59
45:CM:212:ILE:HD11	45:CM:300:ASN:HA	1.84	0.59
45:EK:55:GLU:HG3	45:EK:57:GLY:H	1.67	0.59
45:EK:241:SER:OG	45:EK:250:VAL:O	2.18	0.59
45:GI:221:ARG:HA	45:GI:221:ARG:HH11	1.66	0.59
45:HG:210:TYR:CD1	46:HH:324:LYS:HE3	2.37	0.59
46:HJ:237:THR:HG22	46:HJ:250:LEU:HD21	1.84	0.59
46:HL:377:MET:HA	46:HL:380:ARG:NH2	2.17	0.59
45:IM:239:THR:HG23	45:IM:243:ARG:NH1	2.17	0.59
45:JA:55:GLU:HG3	45:JA:57:GLY:H	1.68	0.59
46:JJ:376:GLU:HA	46:JJ:379:LYS:HE2	1.84	0.59
45:JK:420:GLU:OE2	45:NK:308:ARG:NH1	2.34	0.59
46:JN:254:ALA:O	46:JN:258:ILE:HG22	2.02	0.59
45:KC:288:VAL:HA	45:KC:291:ILE:HG12	1.83	0.59
45:KE:35:GLN:NE2	45:LE:282:TYR:OH	2.36	0.59
46:MJ:6:HIS:O	46:MJ:63:ALA:HA	2.02	0.59
46:MN:1:MET:HG3	46:MN:2:ARG:H	1.67	0.59
46:NB:289:LEU:HD11	46:NB:363:MET:HB3	1.83	0.59
46:NL:324:LYS:HG3	46:NL:325:GLU:N	2.17	0.59
45:OA:187:SER:O	45:OA:191:THR:HG23	2.02	0.59
45:OC:259:LEU:HD23	45:OC:268:MET:HG2	1.84	0.59
45:OK:7:ILE:HD13	45:OK:153:LEU:HD21	1.83	0.59
45:PI:88:HIS:O	45:PI:91:GLN:HG2	2.02	0.59
46:RB:257:LEU:HD11	46:RB:314:SER:HB2	1.84	0.59
45:RC:101:ASN:HA	45:RC:144:GLY:H	1.67	0.59
46:RD:350:LYS:NZ	46:RD:352:SER:OG	2.29	0.59
46:RJ:46:ARG:HH12	46:RJ:243:PRO:HD3	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SN:73:MET:HA	46:SN:76:VAL:HG12	1.83	0.59
46:TD:324:LYS:HZ1	45:TE:222:PRO:HG2	1.67	0.59
45:TM:294:SER:HA	45:TM:297:GLU:OE1	2.02	0.59
46:TN:6:HIS:O	46:TN:63:ALA:HA	2.02	0.59
46:TN:51:TYR:HB3	46:TN:59:TYR:HB3	1.84	0.59
46:UL:178:THR:HG22	46:UL:180:VAL:H	1.68	0.59
45:VA:54:SER:HB3	45:VA:64:ARG:HE	1.65	0.59
46:VN:119:VAL:HG23	46:VN:122:LYS:HE2	1.84	0.59
46:VN:221:THR:HG23	46:VN:224:ASP:H	1.67	0.59
45:WG:90:GLU:OE2	45:WG:121:ARG:NH2	2.28	0.59
46:WJ:139:LEU:HD11	46:WJ:168:SER:HB3	1.82	0.59
45:WK:152:LEU:O	45:WK:156:ARG:HG2	2.02	0.59
20:1K:249:GLU:HA	46:GB:276:ARG:HH21	1.67	0.59
13:2U:224:ARG:HH12	45:WG:40:LYS:HB2	1.66	0.59
14:2V:70:THR:OG1	46:MF:337:ASN:ND2	2.29	0.59
39:6F:90:GLU:O	39:6F:97:GLN:NE2	2.36	0.59
34:6R:555:ASN:O	34:6R:575:ARG:NH2	2.36	0.59
45:AE:254:GLU:OE2	46:AH:98:GLY:HA2	2.01	0.59
45:BC:326:LYS:HD3	46:BF:220:PRO:HG2	1.85	0.59
46:BH:226:ASN:HD21	49:BH:501:GDP:HN1	1.48	0.59
45:BI:222:PRO:HD2	46:BJ:324:LYS:HG3	1.83	0.59
46:CB:299:MET:HG3	46:CB:305:PRO:HG3	1.84	0.59
45:CC:55:GLU:HG3	45:CC:57:GLY:H	1.68	0.59
46:CD:158:GLU:HG3	46:CD:159:TYR:CD1	2.38	0.59
46:CD:258:ILE:HG22	46:CD:266:PHE:HZ	1.68	0.59
46:CF:260:PHE:HB2	46:CF:263:LEU:HD13	1.84	0.59
46:CL:113:ILE:HD13	46:CL:150:LEU:HD22	1.84	0.59
46:CN:83:GLN:O	46:DN:281:TYR:OH	2.19	0.59
45:DG:188:ILE:HD12	45:DG:425:LEU:HD11	1.85	0.59
46:DH:247:ASN:HD21	45:DI:73:THR:HG21	1.67	0.59
45:EM:152:LEU:O	45:EM:156:ARG:HG3	2.02	0.59
45:FA:222:PRO:O	46:FB:322:SER:OG	2.15	0.59
46:FD:64:ILE:HD12	46:FD:119:VAL:HG13	1.83	0.59
45:FI:33:ASP:O	45:FI:60:LYS:NZ	2.29	0.59
45:IA:260:VAL:HB	46:ID:397:TRP:HZ2	1.68	0.59
46:IB:254:ALA:O	46:IB:258:ILE:HG22	2.01	0.59
45:IC:181:VAL:HG13	45:IC:182:VAL:HG23	1.84	0.59
45:IK:48:ALA:HB1	45:IK:243:ARG:HB3	1.83	0.59
45:IM:174:SER:HB2	45:IM:177:VAL:O	2.02	0.59
46:IN:63:ALA:O	46:IN:89:ASN:ND2	2.31	0.59
45:JA:326:LYS:HE2	46:JD:208:TYR:HD1	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JM:420:GLU:OE2	45:NM:308:ARG:HD3	2.02	0.59
45:KA:208:ALA:O	45:KA:212:ILE:HG12	2.02	0.59
46:KB:3:GLU:HG3	46:KB:62:ARG:NH1	2.18	0.59
46:KD:114:ASP:OD1	46:KD:115:SER:N	2.35	0.59
46:LF:27:GLU:OE2	46:LF:241:ARG:NH1	2.36	0.59
45:LG:292:THR:HG21	45:LG:331:SER:HB2	1.83	0.59
45:ME:74:VAL:O	45:ME:78:VAL:HG23	2.02	0.59
45:MI:214:ARG:HH22	46:MJ:324:LYS:HZ2	1.49	0.59
46:NB:254:ALA:O	46:NB:258:ILE:HG22	2.02	0.59
46:ND:101:TRP:CE3	46:ND:187:LEU:HD13	2.37	0.59
46:NJ:47:ILE:HG22	46:NJ:51:TYR:HB2	1.84	0.59
45:NK:178:SER:OG	45:NK:183:GLU:OE2	2.18	0.59
45:NK:251:ASP:OD1	45:NK:252:ILE:N	2.35	0.59
45:OA:51:THR:HG22	45:OA:52:PHE:HD1	1.67	0.59
45:OA:161:TYR:HB3	45:OA:164:LYS:HE2	1.82	0.59
45:OE:133:GLN:HB2	45:OE:252:ILE:HD11	1.85	0.59
45:OK:417:GLU:HA	45:OK:420:GLU:HG2	1.83	0.59
46:PB:207:LEU:HB3	46:PB:225:LEU:HD22	1.84	0.59
46:PB:334:GLN:HA	46:PB:341:PHE:HE2	1.67	0.59
45:PC:251:ASP:OD1	45:PC:252:ILE:N	2.36	0.59
45:PE:292:THR:HG21	45:PE:331:SER:HB2	1.83	0.59
45:PI:356:ASN:OD1	45:PI:357:TYR:N	2.36	0.59
45:PM:118:CYS:O	45:PM:122:ILE:HG12	2.02	0.59
45:QE:215:ARG:NH2	45:QE:299:ALA:O	2.35	0.59
46:QF:290:THR:HA	46:QF:293:MET:HG2	1.83	0.59
46:QH:114:ASP:OD1	46:QH:115:SER:N	2.36	0.59
46:QJ:414:ASN:HB3	46:QJ:415:MET:HE2	1.84	0.59
46:QL:221:THR:HG23	46:QL:224:ASP:H	1.68	0.59
46:QL:282:ARG:NH2	46:QL:292:GLN:OE1	2.32	0.59
46:RH:317:PHE:HD1	46:RH:365:VAL:HG22	1.67	0.59
45:RI:296:PHE:HE2	45:RI:377:MET:HG3	1.66	0.59
46:RJ:252:LYS:NZ	47:RK:501:GTP:O1G	2.35	0.59
45:RK:55:GLU:O	45:SK:285:GLN:NE2	2.24	0.59
46:SD:21:TRP:HA	46:SD:24:ILE:HG22	1.84	0.59
45:SE:367:ASP:OD1	45:SE:368:LEU:N	2.34	0.59
46:SH:316:LEU:HG	46:SH:352:SER:HB3	1.84	0.59
46:SJ:11:GLN:HB3	46:SJ:72:THR:HG21	1.85	0.59
46:TD:86:ARG:NH1	46:UD:278:SER:OG	2.35	0.59
46:TF:113:ILE:HD12	46:TF:154:LYS:HE3	1.83	0.59
45:UE:395:PHE:HZ	45:UE:418:PHE:HB3	1.67	0.59
45:UM:212:ILE:HD11	45:UM:300:ASN:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:319:TYR:HB3	45:UM:323:VAL:HG11	1.84	0.59
45:WC:152:LEU:O	45:WC:156:ARG:HG2	2.03	0.59
46:WD:130:LEU:O	46:WD:162:ARG:NH1	2.36	0.59
46:WF:108:GLU:HG3	46:WF:112:LEU:HD23	1.83	0.59
46:WF:317:PHE:HB2	46:WF:353:ILE:HD13	1.85	0.59
26:2W:189:ARG:HD2	45:KM:47:ASP:H	1.67	0.59
27:3C:224:LYS:O	45:KA:221:ARG:NH2	2.29	0.59
34:4R:89:ASP:OD1	45:AE:370:LYS:NZ	2.35	0.59
34:5R:268:GLU:HB3	46:DJ:280:GLN:HG2	1.84	0.59
45:AG:259:LEU:HD11	45:AG:316:SER:HB3	1.85	0.59
46:AH:163:ILE:HD11	46:AH:251:ARG:HG2	1.83	0.59
46:BL:203:ASP:O	46:BL:207:LEU:HD12	2.02	0.59
45:CA:259:LEU:HD13	45:CA:268:MET:HE2	1.85	0.59
46:CJ:266:PHE:CE1	46:CJ:370:ASN:HB2	2.38	0.59
46:CL:64:ILE:HA	46:CL:89:ASN:HB3	1.85	0.59
46:CN:16:ILE:HD12	46:CN:229:VAL:HG11	1.85	0.59
45:DK:288:VAL:HA	45:DK:291:ILE:HG12	1.84	0.59
46:EB:86:ARG:HH22	46:FB:282:ARG:HB2	1.68	0.59
46:EJ:52:ASN:OD1	46:EJ:62:ARG:NH2	2.35	0.59
45:EK:250:VAL:HG13	45:EK:254:GLU:HB2	1.85	0.59
46:EN:167:PHE:CE2	46:EN:233:MET:HG2	2.37	0.59
46:FF:222:TYR:O	46:FF:226:ASN:ND2	2.26	0.59
46:IF:309:ARG:NH2	46:IF:426:GLN:O	2.29	0.59
46:IH:209:ASP:OD1	46:IH:213:ARG:NH2	2.35	0.59
45:II:226:ASN:ND2	45:II:367:ASP:OD2	2.36	0.59
45:JA:325:PRO:HB2	46:JD:208:TYR:OH	2.03	0.59
46:KL:376:GLU:OE1	46:KL:380:ARG:NH1	2.35	0.59
45:LI:220:GLU:O	45:LI:221:ARG:HD3	2.03	0.59
45:MA:64:ARG:NH1	45:MA:129:CYS:SG	2.75	0.59
46:MD:202:ILE:HD11	46:MD:268:ILE:HD11	1.85	0.59
45:MG:9:VAL:HG12	45:MG:68:LEU:HB2	1.84	0.59
45:MG:76:ASP:OD1	45:MG:79:ARG:NH2	2.34	0.59
46:NB:148:GLY:O	46:NB:152:ILE:HG12	2.02	0.59
45:NK:48:ALA:HB1	45:NK:243:ARG:HB2	1.85	0.59
45:OC:276:ILE:HG23	45:OC:369:ALA:HB3	1.85	0.59
45:OE:99:ALA:HA	45:OE:105:ARG:HD2	1.83	0.59
46:OF:10:GLY:O	46:OF:14:ASN:ND2	2.36	0.59
45:OK:103:PHE:HB3	45:OK:408:TYR:HE2	1.66	0.59
46:ON:221:THR:HG23	46:ON:224:ASP:H	1.66	0.59
45:PA:101:ASN:HA	45:PA:144:GLY:H	1.66	0.59
46:PL:322:SER:OG	46:PL:325:GLU:OE2	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QF:128:ASP:OD1	46:QF:129:CYS:N	2.35	0.59
46:QN:54:ALA:HA	46:RN:283:ALA:HB2	1.83	0.59
45:RA:239:THR:HG23	45:RA:243:ARG:HH12	1.67	0.59
46:RB:52:ASN:OD1	46:RB:62:ARG:NH2	2.36	0.59
46:RB:276:ARG:NH2	46:RB:279:GLN:OE1	2.35	0.59
46:RJ:156:ARG:NH2	46:RJ:195:ASN:O	2.36	0.59
45:SA:188:ILE:HD12	45:SA:425:LEU:HD11	1.83	0.59
45:TE:77:GLU:HA	45:TE:80:THR:HG22	1.85	0.59
45:TE:141:VAL:HG11	45:TE:172:TYR:HD1	1.67	0.59
45:TM:326:LYS:HZ1	46:TN:219:THR:HA	1.68	0.59
46:UJ:258:ILE:HD12	46:UJ:264:HIS:HB3	1.83	0.59
45:VA:174:SER:HB3	45:VA:207:GLU:OE1	2.03	0.59
45:VA:251:ASP:OD1	45:VA:252:ILE:N	2.35	0.59
45:VE:294:SER:O	45:VE:300:ASN:ND2	2.23	0.59
46:VL:86:ARG:HH11	46:VL:86:ARG:HA	1.67	0.59
45:VM:188:ILE:HD12	45:VM:425:LEU:HD11	1.83	0.59
46:WJ:325:GLU:O	46:WJ:328:GLU:HG3	2.01	0.59
46:WN:377:MET:HA	46:WN:380:ARG:HG2	1.85	0.59
45:DC:292:THR:HG21	45:DC:331:SER:HB2	1.85	0.59
19:1J:117:GLU:OE1	45:IE:221:ARG:NH2	2.28	0.59
31:2I:25:ASN:ND2	45:FG:116:ASP:OD2	2.34	0.59
14:2V:33:PRO:HB3	45:ME:304:LYS:HD2	1.84	0.59
36:5B:54:ARG:NH2	45:KC:439:THR:O	2.34	0.59
35:5S:76:ILE:HG22	35:5S:89:TRP:NE1	2.18	0.59
45:AA:68:LEU:HD13	45:AA:93:ILE:HB	1.83	0.59
46:AD:114:ASP:OD1	46:AD:115:SER:N	2.36	0.59
46:AF:103:LYS:HA	46:AF:107:THR:HG22	1.83	0.59
46:AH:128:ASP:OD1	46:AH:129:CYS:N	2.36	0.59
45:BC:222:PRO:O	46:BD:324:LYS:NZ	2.27	0.59
46:BN:282:ARG:NH2	46:BN:292:GLN:OE1	2.32	0.59
45:CA:331:SER:O	45:CA:335:ILE:HG12	2.03	0.59
45:CG:288:VAL:HG21	45:CG:327:ASP:HB3	1.84	0.59
46:CJ:276:ARG:HA	46:CJ:279:GLN:OE1	2.03	0.59
46:CL:178:THR:HB	46:CL:181:GLU:HG2	1.85	0.59
46:DB:318:ARG:HB3	46:DB:357:PRO:HA	1.85	0.59
45:EC:238:LEU:HA	45:EC:318:MET:HE1	1.84	0.59
46:EJ:135:ILE:HG13	46:EJ:152:ILE:HD11	1.84	0.59
46:FB:282:ARG:HE	46:FB:283:ALA:H	1.50	0.59
46:FJ:22:GLU:HG2	46:FJ:81:PHE:HD2	1.66	0.59
46:GF:73:MET:HA	46:GF:76:VAL:HG12	1.83	0.59
45:GG:69:ASP:OD2	45:GG:71:GLU:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GH:114:ASP:OD1	46:GH:115:SER:N	2.35	0.59
45:GI:60:LYS:NZ	45:GI:85:GLN:O	2.35	0.59
45:IE:242:LEU:HD11	45:IE:252:ILE:HG13	1.84	0.59
46:IL:238:CYS:SG	46:IL:318:ARG:NH1	2.76	0.59
46:JB:276:ARG:HH21	46:JB:279:GLN:HE22	1.50	0.59
46:JN:153:SER:HB2	46:JN:191:GLN:HE21	1.68	0.59
45:LA:222:PRO:HD2	46:LB:324:LYS:NZ	2.16	0.59
45:LC:289:ALA:O	45:LC:293:ASN:ND2	2.27	0.59
46:ML:213:ARG:HB3	46:ML:297:LYS:HZ1	1.68	0.59
46:NB:156:ARG:NH2	46:NB:195:ASN:OD1	2.25	0.59
45:NM:269:LEU:HB2	45:NM:301:MET:HE1	1.83	0.59
46:NN:371:SER:O	46:NN:422:TYR:OH	2.17	0.59
45:OK:141:VAL:HG11	45:OK:172:TYR:HD1	1.68	0.59
45:PA:105:ARG:HH11	46:PB:251:ARG:NH1	2.01	0.59
45:QM:292:THR:HG21	45:QM:331:SER:HB3	1.85	0.59
45:RK:208:ALA:O	45:RK:212:ILE:HG12	2.03	0.59
45:SC:132:LEU:HD12	45:SC:132:LEU:H	1.68	0.59
46:SH:256:ASN:OD1	45:SI:181:VAL:HG22	2.03	0.59
46:TH:148:GLY:O	46:TH:152:ILE:HG12	2.02	0.59
46:TN:226:ASN:HD21	49:TN:501:GDP:HN1	1.49	0.59
46:UL:55:THR:HG23	46:VL:283:ALA:HA	1.83	0.59
46:UL:198:GLU:HG2	46:UL:266:PHE:HE2	1.66	0.59
45:VA:1:MET:SD	46:VD:94:GLN:NE2	2.76	0.59
45:VA:90:GLU:OE2	45:VA:121:ARG:NH2	2.35	0.59
45:VI:2:ARG:NH2	46:VL:70:PRO:HD2	2.16	0.59
46:WB:31:ASP:OD2	46:WB:37:HIS:ND1	2.35	0.59
45:WK:111:GLY:O	45:WK:115:VAL:HG13	2.01	0.59
4:0D:177:THR:HG21	46:EB:47:ILE:HG22	1.83	0.59
21:2L:357:ILE:HD12	34:6R:100:GLN:OE1	2.02	0.59
25:2R:505:TYR:HB2	45:EG:39:ASP:HB3	1.84	0.59
23:3O:406:ARG:HH12	46:UH:276:ARG:HD2	1.66	0.59
14:3V:122:LYS:HE2	46:LD:390:ARG:HH12	1.68	0.59
36:5B:145:ASN:O	36:5B:149:ASN:ND2	2.35	0.59
36:5D:82:ASP:HA	36:5D:85:ARG:HH11	1.68	0.59
34:5R:285:THR:O	34:5R:306:ARG:NH2	2.33	0.59
40:6G:150:GLU:O	46:VH:336:LYS:NZ	2.33	0.59
46:AD:19:LYS:HA	46:AD:22:GLU:OE1	2.02	0.59
46:AD:178:THR:HB	46:AD:181:GLU:HG3	1.84	0.59
45:AI:284:GLU:HB2	45:AI:286:LEU:HD22	1.85	0.59
45:BC:141:VAL:HG11	45:BC:172:TYR:CD1	2.37	0.59
46:BN:222:TYR:O	46:BN:226:ASN:ND2	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CK:55:GLU:HG3	45:CK:57:GLY:H	1.67	0.59
46:DF:68:LEU:HB3	46:DF:96:GLY:HA2	1.85	0.59
46:DL:375:GLN:HE22	46:DL:423:GLN:HB3	1.67	0.59
45:DM:70:LEU:HD13	45:DM:95:GLY:HA3	1.84	0.59
46:EF:222:TYR:O	46:EF:226:ASN:ND2	2.27	0.59
45:FK:254:GLU:OE1	45:FK:257:THR:OG1	2.18	0.59
45:GM:76:ASP:OD2	46:GN:46:ARG:NH2	2.35	0.59
46:HD:377:MET:SD	46:HD:380:ARG:NH2	2.76	0.59
45:HG:347:CYS:HA	46:HJ:388:MET:HE1	1.83	0.59
45:HI:257:THR:HA	46:HL:397:TRP:CZ3	2.37	0.59
46:HJ:67:ASP:O	46:HJ:92:PHE:HA	2.03	0.59
45:HM:60:LYS:NZ	45:HM:85:GLN:O	2.31	0.59
46:HN:268:ILE:HG22	46:HN:368:VAL:HG22	1.84	0.59
46:ID:330:MET:SD	46:ID:349:ILE:HG21	2.43	0.59
45:JC:88:HIS:CE1	45:JC:90:GLU:HG2	2.38	0.59
46:JN:161:ASP:OD2	46:JN:162:ARG:NH1	2.35	0.59
46:KL:156:ARG:HD2	46:KL:164:MET:HE3	1.85	0.59
46:KL:164:MET:N	46:KL:197:ASP:OD1	2.36	0.59
46:KL:407:GLU:HA	46:KL:410:GLU:HG3	1.84	0.59
46:MB:309:ARG:NH1	46:MB:339:SER:O	2.36	0.59
45:MC:338:LYS:NZ	45:MC:340:THR:OG1	2.36	0.59
46:MD:128:ASP:OD1	46:MD:129:CYS:N	2.36	0.59
45:ME:265:ILE:HG22	45:ME:380:ASN:HD21	1.68	0.59
46:MF:222:TYR:O	46:MF:226:ASN:ND2	2.25	0.59
45:MM:292:THR:HG21	45:MM:331:SER:HB3	1.85	0.59
46:ND:221:THR:HG23	46:ND:224:ASP:H	1.68	0.59
45:NI:254:GLU:OE2	46:NL:99:ASN:ND2	2.31	0.59
46:NL:309:ARG:N	46:NL:372:THR:OG1	2.32	0.59
46:NL:324:LYS:HG3	46:NL:325:GLU:H	1.68	0.59
45:OC:55:GLU:HG3	45:OC:57:GLY:H	1.67	0.59
46:OH:52:ASN:OD1	46:OH:62:ARG:NH2	2.35	0.59
46:PF:148:GLY:O	46:PF:152:ILE:HG12	2.01	0.59
45:QC:296:PHE:HE1	45:QC:377:MET:HG3	1.67	0.59
46:QF:67:ASP:O	46:QF:92:PHE:HA	2.03	0.59
46:RD:280:GLN:OE1	46:RD:280:GLN:N	2.33	0.59
46:SH:86:ARG:HD3	46:SH:87:PRO:HD2	1.83	0.59
46:SH:347:ASN:ND2	45:SI:176:GLN:O	2.35	0.59
46:SL:152:ILE:HA	46:SL:155:VAL:HG12	1.85	0.59
46:TB:55:THR:HG23	46:UB:283:ALA:HB1	1.84	0.59
46:TF:372:THR:HA	46:TF:422:TYR:HE2	1.68	0.59
45:VI:326:LYS:HG3	46:VL:208:TYR:HE2	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VM:140:SER:OG	47:VM:501:GTP:O2B	2.21	0.59
46:VN:238:CYS:SG	46:VN:318:ARG:NH1	2.76	0.59
45:WM:102:ASN:HB3	45:WM:105:ARG:HG2	1.84	0.59
46:WN:327:ASP:OD1	46:WN:328:GLU:N	2.36	0.59
45:DC:116:ASP:OD1	45:DC:117:LEU:N	2.36	0.59
31:2I:76:PRO:O	45:GE:338:LYS:HE2	2.03	0.59
25:3R:283:ARG:HE	45:CK:45:GLY:HA2	1.67	0.59
37:5H:39:ASP:O	45:OK:370:LYS:NZ	2.35	0.59
10:5Q:79:ILE:HD12	10:5Q:164:ARG:HB2	1.84	0.59
45:BA:287:SER:N	45:BA:290:GLU:OE1	2.27	0.59
46:BD:148:GLY:O	46:BD:152:ILE:HG12	2.03	0.59
45:BI:174:SER:HB3	45:BI:207:GLU:HG3	1.83	0.59
45:CM:276:ILE:HD11	45:CM:280:LYS:HG3	1.83	0.59
45:DA:296:PHE:HE2	45:DA:335:ILE:HG13	1.67	0.59
46:DB:328:GLU:HA	46:DB:331:LEU:HD12	1.84	0.59
46:DH:178:THR:HB	46:DH:181:GLU:HG3	1.83	0.59
46:DJ:3:GLU:OE2	46:DJ:127:CYS:HB2	2.03	0.59
46:DJ:67:ASP:O	46:DJ:92:PHE:HA	2.02	0.59
46:ED:121:ARG:NH2	46:FD:336:LYS:HE3	2.17	0.59
45:EG:244:PHE:HB2	45:EG:356:ASN:HD21	1.68	0.59
45:FC:210:TYR:CD1	46:FD:324:LYS:HD3	2.38	0.59
45:FM:206:ASN:OD1	47:FM:501:GTP:N2	2.36	0.59
45:FM:284:GLU:HG3	45:FM:286:LEU:HD22	1.83	0.59
46:GF:268:ILE:HG22	46:GF:368:VAL:HG22	1.83	0.59
47:GI:501:GTP:O1G	46:GJ:252:LYS:NZ	2.36	0.59
45:HA:348:PRO:HD2	46:HD:388:MET:HE1	1.85	0.59
45:HG:271:SER:OG	45:HG:301:MET:SD	2.59	0.59
45:HK:80:THR:O	45:HK:84:ARG:NH2	2.35	0.59
45:HK:101:ASN:HA	45:HK:144:GLY:H	1.66	0.59
45:HK:221:ARG:NH1	46:HL:322:SER:OG	2.35	0.59
45:IA:244:PHE:HB3	45:IA:358:GLN:NE2	2.18	0.59
45:IC:70:LEU:HD13	45:IC:95:GLY:HA3	1.84	0.59
45:IK:71:GLU:HB2	45:IK:98:ASP:HB2	1.84	0.59
46:JJ:3:GLU:OE2	46:JJ:3:GLU:N	2.26	0.59
45:JM:116:ASP:OD1	45:JM:117:LEU:N	2.36	0.59
45:JM:210:TYR:HE1	46:JN:324:LYS:HB3	1.66	0.59
45:LK:326:LYS:HZ3	46:LN:208:TYR:HB3	1.65	0.59
46:MF:392:LYS:HD2	46:MF:395:LEU:HD22	1.84	0.59
46:MN:31:ASP:OD1	46:MN:35:THR:N	2.33	0.59
46:OF:178:THR:HG22	46:OF:180:VAL:H	1.67	0.59
46:OL:316:LEU:HD23	46:OL:352:SER:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PF:290:THR:HA	46:PF:293:MET:HG3	1.83	0.59
45:PG:352:LYS:HZ3	46:PJ:179:VAL:N	1.95	0.59
46:PL:86:ARG:HB3	46:PL:89:ASN:ND2	2.18	0.59
46:QB:54:ALA:HA	46:RB:283:ALA:HB2	1.85	0.59
45:QC:256:GLN:HG2	45:QC:260:VAL:HB	1.85	0.59
46:QF:386:THR:OG1	46:QF:390:ARG:NH1	2.36	0.59
45:QI:387:VAL:HG12	45:QI:390:ARG:NH2	2.18	0.59
45:QM:141:VAL:HG22	45:QM:187:SER:HA	1.85	0.59
45:QM:259:LEU:HD13	45:QM:268:MET:HE2	1.84	0.59
46:RJ:173:PRO:HG2	46:RJ:380:ARG:HE	1.67	0.59
46:RL:182:PRO:HD2	46:RL:388:MET:HE1	1.85	0.59
46:RN:178:THR:HB	46:RN:181:GLU:HG3	1.85	0.59
46:SB:10:GLY:O	46:SB:14:ASN:ND2	2.36	0.59
45:TA:323:VAL:HB	45:TA:373:ARG:HH12	1.68	0.59
45:TC:427:ALA:HA	45:TC:430:LYS:HG2	1.85	0.59
45:TI:108:TYR:HA	45:TI:112:LYS:HE3	1.85	0.59
46:TL:148:GLY:O	46:TL:152:ILE:HG12	2.03	0.59
46:TN:86:ARG:HE	46:TN:87:PRO:HD2	1.67	0.59
45:UA:256:GLN:HB2	45:UA:260:VAL:HB	1.85	0.59
46:UB:166:THR:HG21	46:UB:192:LEU:HD11	1.85	0.59
45:UE:258:ASN:HD22	46:UF:179:VAL:HG22	1.67	0.59
46:UL:200:MET:HE1	46:UL:268:ILE:N	2.17	0.59
45:UM:64:ARG:NH1	45:UM:129:CYS:SG	2.76	0.59
45:UM:251:ASP:OD1	45:UM:252:ILE:N	2.35	0.59
46:VD:7:ILE:HG22	46:VD:64:ILE:HB	1.85	0.59
46:VH:238:CYS:SG	46:VH:241:ARG:NH2	2.76	0.59
45:WI:172:TYR:HD1	45:WI:173:PRO:HD2	1.68	0.59
24:2P:439:HIS:CE1	45:TK:369:ALA:HB1	2.37	0.59
25:3R:395:VAL:O	46:DL:77:ARG:NH2	2.34	0.59
37:5G:213:TYR:HD2	46:LN:392:LYS:HG3	1.68	0.59
10:5Q:94:LEU:N	10:5Q:150:GLU:O	2.21	0.59
45:AA:156:ARG:HH11	45:AA:156:ARG:HA	1.68	0.59
46:BH:114:ASP:OD1	46:BH:115:SER:N	2.36	0.59
45:BK:352:LYS:NZ	46:BN:178:THR:HA	2.17	0.59
46:BN:282:ARG:NE	46:BN:288:GLU:OE2	2.24	0.59
45:CI:244:PHE:HB2	45:CI:356:ASN:HD21	1.68	0.59
45:DM:119:LEU:HD12	45:DM:123:ARG:HH12	1.67	0.59
45:EC:316:SER:HA	45:EC:352:LYS:HB3	1.85	0.59
46:EJ:319:GLY:HA2	46:EJ:357:PRO:HD3	1.84	0.59
45:EM:311:LYS:NZ	45:EM:312:TYR:O	2.36	0.59
45:FA:244:PHE:HB2	45:FA:356:ASN:HD21	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FE:259:LEU:HD21	45:FE:316:SER:HB2	1.85	0.59
45:GA:215:ARG:NH2	45:GA:300:ASN:OD1	2.35	0.59
45:GC:176:GLN:O	46:GD:347:ASN:ND2	2.36	0.59
45:GK:407:TRP:HZ2	46:GL:258:ILE:HD11	1.67	0.59
45:IE:116:ASP:OD1	45:IE:117:LEU:N	2.36	0.59
45:IG:209:ILE:HG13	45:IG:302:MET:HG2	1.85	0.59
46:JH:67:ASP:O	46:JH:92:PHE:HA	2.03	0.59
45:KA:338:LYS:HZ2	45:KA:340:THR:H	1.50	0.59
45:LG:397:LEU:HD23	46:LH:346:PRO:HD3	1.85	0.59
45:OA:51:THR:HG22	45:OA:52:PHE:CD1	2.38	0.59
46:OB:58:ARG:HH12	46:OB:84:LEU:HD13	1.67	0.59
45:QA:89:PRO:HD2	45:RA:280:LYS:HE2	1.85	0.59
45:QC:53:PHE:HB3	45:QC:61:HIS:HB3	1.85	0.59
46:QN:257:LEU:HD11	46:QN:314:SER:HB2	1.85	0.59
45:RG:20:CYS:HA	45:RG:232:ALA:HB1	1.84	0.59
46:RL:262:ARG:HH12	46:RL:418:LEU:HA	1.67	0.59
46:SD:324:LYS:HB2	45:SE:210:TYR:HE2	1.67	0.59
45:SE:55:GLU:HG3	45:SE:57:GLY:H	1.68	0.59
46:SH:99:ASN:HA	46:SH:142:GLY:H	1.67	0.59
45:SI:88:HIS:HB3	45:SI:91:GLN:HG3	1.85	0.59
45:SM:55:GLU:HG3	45:SM:57:GLY:H	1.67	0.59
45:SM:288:VAL:HG11	45:SM:327:ASP:HB3	1.84	0.59
45:TE:241:SER:OG	45:TE:250:VAL:O	2.20	0.59
46:TH:289:LEU:HD22	46:TH:363:MET:HG2	1.85	0.59
46:TL:411:ALA:HB1	46:TL:415:MET:HE3	1.84	0.59
46:UB:324:LYS:HE3	45:UC:222:PRO:HD2	1.83	0.59
46:UF:178:THR:HB	46:UF:181:GLU:HG3	1.85	0.59
45:UK:352:LYS:HE3	46:UL:179:VAL:HG13	1.84	0.59
45:VA:98:ASP:O	45:VA:105:ARG:NH1	2.36	0.59
45:VA:319:TYR:CD2	45:VA:375:VAL:HG12	2.38	0.59
45:VA:328:VAL:O	45:VA:332:ILE:HG12	2.03	0.59
46:VB:254:ALA:O	46:VB:258:ILE:HG22	2.02	0.59
45:VK:265:ILE:HG22	45:VK:432:TYR:HE1	1.68	0.59
46:WD:325:GLU:O	46:WD:329:GLN:HB2	2.01	0.59
45:WE:140:SER:OG	47:WE:501:GTP:O2B	2.21	0.59
46:WF:287:PRO:HG3	46:WF:329:GLN:HE22	1.68	0.59
45:WM:226:ASN:ND2	45:WM:367:ASP:OD2	2.36	0.59
4:0D:177:THR:OG1	46:EB:44:LEU:O	2.11	0.58
6:0F:75:ARG:HH12	46:ED:357:PRO:HD2	1.68	0.58
17:1F:59:LYS:HZ3	46:GL:56:GLY:N	2.00	0.58
4:2D:209:LYS:HA	34:5R:433:GLN:HE21	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5F:89:LYS:HB2	37:5F:92:GLN:OE1	2.02	0.58
10:6Q:179:PRO:HA	10:6Q:182:LYS:HG2	1.85	0.58
46:AF:173:PRO:HD3	46:AF:380:ARG:HH21	1.67	0.58
46:AH:148:GLY:O	46:AH:152:ILE:HG12	2.01	0.58
46:AL:55:THR:HG23	46:BL:283:ALA:HA	1.85	0.58
45:AM:389:SER:O	45:AM:393:HIS:ND1	2.33	0.58
46:AN:257:LEU:HD11	46:AN:314:SER:HB3	1.84	0.58
45:BE:176:GLN:NE2	45:BE:177:VAL:HG23	2.18	0.58
46:BJ:42:LEU:HA	46:BJ:45:GLU:HG2	1.85	0.58
45:BK:244:PHE:HB2	45:BK:356:ASN:HD21	1.68	0.58
45:CC:205:ASP:OD2	45:CC:303:ALA:HA	2.03	0.58
45:CC:251:ASP:OD1	45:CC:252:ILE:N	2.36	0.58
45:CI:135:PHE:HE2	45:CI:157:LEU:HD12	1.67	0.58
45:DM:123:ARG:NH1	45:DM:160:ASP:OD2	2.36	0.58
45:EC:225:THR:HB	45:EC:229:ARG:NH1	2.18	0.58
45:EE:27:GLU:OE2	45:EE:361:THR:OG1	2.19	0.58
46:EH:8:GLN:NE2	46:EH:14:ASN:OD1	2.35	0.58
45:EI:90:GLU:OE1	45:FG:280:LYS:NZ	2.36	0.58
45:GE:325:PRO:HA	45:GE:328:VAL:HG12	1.84	0.58
45:GE:326:LYS:HD2	46:GH:208:TYR:HE1	1.68	0.58
45:GG:11:GLN:HG3	45:GG:74:VAL:HG11	1.85	0.58
46:GH:148:GLY:O	46:GH:152:ILE:HG12	2.03	0.58
46:HF:67:ASP:O	46:HF:92:PHE:HA	2.03	0.58
45:JA:426:ALA:O	45:JA:429:GLU:HG3	2.02	0.58
46:JD:248:SER:HA	46:JD:252:LYS:HD3	1.85	0.58
46:KB:10:GLY:O	46:KB:14:ASN:ND2	2.36	0.58
46:LN:177:ASP:OD2	49:LN:501:GDP:O3'	2.20	0.58
46:LN:316:LEU:HD13	46:LN:352:SER:HB2	1.85	0.58
46:MF:387:ALA:HA	46:MF:390:ARG:HH12	1.68	0.58
46:ML:309:ARG:NH2	46:ML:426:GLN:O	2.33	0.58
45:NA:256:GLN:HG2	46:ND:397:TRP:CH2	2.34	0.58
46:NB:3:GLU:OE2	46:NB:129:CYS:N	2.28	0.58
46:NJ:304:ASP:HB3	46:NJ:307:HIS:CE1	2.37	0.58
46:OB:83:GLN:O	46:PB:281:TYR:OH	2.16	0.58
46:OF:135:ILE:HG13	46:OF:152:ILE:HD11	1.84	0.58
45:PE:100:ALA:HA	46:PF:252:LYS:HG2	1.85	0.58
46:PJ:266:PHE:CE1	46:PJ:370:ASN:HB2	2.38	0.58
46:QF:19:LYS:O	46:QF:22:GLU:HG3	2.03	0.58
46:RJ:262:ARG:HG3	46:RJ:263:LEU:HD12	1.83	0.58
45:SI:75:ILE:HD11	45:SI:92:LEU:HB3	1.85	0.58
45:SK:206:ASN:OD1	47:SK:501:GTP:N2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:116:VAL:HA	46:SL:119:VAL:HG12	1.84	0.58
46:UN:119:VAL:HA	46:UN:122:LYS:HZ3	1.66	0.58
46:VB:73:MET:O	46:VB:77:ARG:HG2	2.02	0.58
45:VK:60:LYS:NZ	45:VK:61:HIS:O	2.36	0.58
45:WK:192:HIS:ND1	45:WK:424:ASP:OD1	2.36	0.58
8:1H:252:ARG:HE	45:HE:31:GLN:HA	1.67	0.58
19:1J:152:LYS:HG2	46:IH:227:HIS:ND1	2.18	0.58
14:2V:94:GLY:HA2	46:LF:262:ARG:HG2	1.84	0.58
33:4F:71:TYR:CE1	45:II:31:GLN:HA	2.38	0.58
35:4S:83:ALA:HA	46:WD:108:GLU:HG3	1.84	0.58
37:5F:44:ARG:CZ	45:OC:285:GLN:HG2	2.33	0.58
37:5H:17:ASN:HB2	37:5H:21:LEU:HD12	1.85	0.58
34:5R:97:CYS:HB3	34:5R:180:ILE:HD13	1.84	0.58
46:AB:374:ILE:HA	46:AB:377:MET:HE1	1.84	0.58
45:AG:280:LYS:NZ	45:MG:90:GLU:OE1	2.33	0.58
46:AH:350:LYS:NZ	46:AH:352:SER:OG	2.35	0.58
46:AL:114:ASP:OD1	46:AL:115:SER:N	2.36	0.58
46:AN:67:ASP:O	46:AN:92:PHE:HA	2.03	0.58
46:CB:179:VAL:HG13	46:CB:180:VAL:HG13	1.83	0.58
46:CJ:143:THR:OG1	49:CJ:501:GDP:O1B	2.21	0.58
46:CL:77:ARG:HH12	46:CL:83:GLN:HA	1.68	0.58
46:DJ:222:TYR:O	46:DJ:226:ASN:ND2	2.29	0.58
45:DK:174:SER:HB3	45:DK:177:VAL:O	2.01	0.58
46:EH:322:SER:OG	46:EH:325:GLU:OE1	2.21	0.58
46:FD:46:ARG:NH1	46:FD:240:LEU:O	2.34	0.58
46:FD:60:VAL:HG11	46:FD:86:ARG:NH2	2.18	0.58
45:FG:226:ASN:ND2	45:FG:367:ASP:OD2	2.37	0.58
45:FK:140:SER:OG	47:FK:501:GTP:O2B	2.21	0.58
45:GA:326:LYS:HD3	46:GD:208:TYR:HD1	1.67	0.58
46:GD:148:GLY:O	46:GD:152:ILE:HG12	2.03	0.58
45:GG:226:ASN:ND2	45:GG:367:ASP:OD2	2.36	0.58
45:GI:101:ASN:HA	45:GI:144:GLY:H	1.69	0.58
45:GK:328:VAL:O	45:GK:332:ILE:HG12	2.03	0.58
46:HN:285:THR:HB	46:HN:287:PRO:HD2	1.84	0.58
46:HN:378:PHE:HB3	46:HN:415:MET:HE1	1.84	0.58
46:HN:421:GLU:OE1	46:HN:424:GLN:NE2	2.35	0.58
46:IL:22:GLU:HG2	46:IL:81:PHE:CD1	2.38	0.58
46:JJ:19:LYS:HG3	46:JJ:226:ASN:HB3	1.85	0.58
46:JN:226:ASN:HA	46:JN:229:VAL:HG12	1.84	0.58
45:KA:47:ASP:HB2	45:KA:49:PHE:CE1	2.38	0.58
46:KB:207:LEU:HB3	46:KB:225:LEU:HD22	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:174:SER:HB3	45:KE:177:VAL:O	2.03	0.58
46:LB:334:GLN:HE22	46:LB:348:ASN:H	1.50	0.58
46:LJ:221:THR:HG23	46:LJ:224:ASP:H	1.67	0.58
46:MD:73:MET:SD	46:MD:92:PHE:HB3	2.42	0.58
45:ME:172:TYR:HH	45:ME:191:THR:HG1	1.48	0.58
46:ND:404:ASP:OD2	46:ND:406:MET:HG3	2.03	0.58
45:NK:27:GLU:HG2	45:NK:361:THR:HG21	1.84	0.58
46:NL:371:SER:O	46:NL:422:TYR:OH	2.21	0.58
46:OD:294:PHE:HE2	46:OD:333:VAL:HG11	1.66	0.58
45:PG:88:HIS:O	45:PG:91:GLN:HG2	2.03	0.58
46:QB:99:ASN:HA	46:QB:142:GLY:H	1.67	0.58
46:QB:149:THR:HA	46:QB:152:ILE:HD12	1.83	0.58
45:QK:136:LEU:HD13	45:QK:167:LEU:HB2	1.84	0.58
46:QL:99:ASN:HA	46:QL:142:GLY:H	1.67	0.58
46:RB:316:LEU:HD13	46:RB:352:SER:HB2	1.86	0.58
46:RL:222:TYR:O	46:RL:226:ASN:ND2	2.34	0.58
45:RM:328:VAL:HG11	45:RM:353:VAL:HG21	1.85	0.58
46:SD:107:THR:OG1	46:SD:108:GLU:OE1	2.20	0.58
46:SJ:8:GLN:NE2	46:SJ:13:GLY:O	2.35	0.58
45:TG:33:ASP:HA	45:TG:85:GLN:HE21	1.67	0.58
46:TL:97:ALA:HB3	46:TL:143:THR:HB	1.83	0.58
45:UA:244:PHE:HB2	45:UA:356:ASN:HD21	1.68	0.58
46:UB:198:GLU:HG2	46:UB:266:PHE:HE2	1.68	0.58
45:UC:107:HIS:HA	45:UC:152:LEU:HD11	1.84	0.58
46:UL:222:TYR:O	46:UL:226:ASN:ND2	2.25	0.58
46:UN:113:ILE:HD13	46:UN:150:LEU:HD22	1.85	0.58
45:VC:2:ARG:HA	45:VC:133:GLN:HE22	1.67	0.58
46:WD:371:SER:O	46:WD:422:TYR:OH	2.20	0.58
45:WE:407:TRP:HZ2	46:WF:258:ILE:HD11	1.68	0.58
19:1J:297:THR:OG1	45:IK:218:ASP:O	2.17	0.58
21:1L:781:MET:HA	46:BD:320:ARG:HH12	1.67	0.58
28:2F:79:CYS:HA	46:HF:332:ASN:HD21	1.68	0.58
23:2O:207:HIS:CD2	40:6G:83:GLU:HB2	2.38	0.58
36:5A:43:CYS:SG	46:KB:391:ARG:NE	2.75	0.58
36:5C:82:ASP:OD1	36:5C:85:ARG:NH2	2.36	0.58
45:AC:271:SER:HA	45:AC:302:MET:HG2	1.84	0.58
46:AN:387:ALA:HA	46:AN:390:ARG:NH1	2.18	0.58
45:CA:188:ILE:HD12	45:CA:425:LEU:HD11	1.85	0.58
45:CI:53:PHE:O	45:CI:64:ARG:NH2	2.36	0.58
46:CN:257:LEU:HD11	46:CN:314:SER:HB2	1.86	0.58
45:DA:76:ASP:OD1	45:DA:79:ARG:NH2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:89:PRO:HG2	45:EA:280:LYS:HB3	1.86	0.58
45:DA:101:ASN:HA	45:DA:144:GLY:H	1.68	0.58
46:DB:16:ILE:HD12	46:DB:229:VAL:HG21	1.85	0.58
46:DL:166:THR:HG21	46:DL:192:LEU:HD11	1.84	0.58
46:EJ:238:CYS:SG	46:EJ:239:CYS:N	2.77	0.58
46:EJ:394:PHE:HA	46:EJ:397:TRP:CZ3	2.37	0.58
46:EL:221:THR:HG23	46:EL:224:ASP:H	1.68	0.58
46:FL:99:ASN:HA	46:FL:142:GLY:H	1.68	0.58
45:GA:11:GLN:NE2	46:GB:247:ASN:OD1	2.37	0.58
46:GD:222:TYR:O	46:GD:226:ASN:ND2	2.24	0.58
45:GG:11:GLN:NE2	46:GH:247:ASN:OD1	2.35	0.58
46:HB:273:LEU:H	46:HB:292:GLN:HE22	1.50	0.58
46:HD:262:ARG:NH1	46:HD:421:GLU:OE1	2.36	0.58
45:HE:88:HIS:CE1	45:HE:90:GLU:HG3	2.39	0.58
45:HE:180:ALA:HA	46:HF:350:LYS:NZ	2.17	0.58
46:HL:222:TYR:O	46:HL:226:ASN:ND2	2.21	0.58
46:ID:372:THR:HA	46:ID:422:TYR:HE2	1.67	0.58
45:JC:345:ASP:OD1	45:JC:346:TRP:N	2.35	0.58
46:JJ:31:ASP:OD1	46:JJ:35:THR:N	2.30	0.58
46:JJ:152:ILE:HG23	46:JJ:164:MET:HE1	1.84	0.58
45:JM:107:HIS:HA	45:JM:152:LEU:HD11	1.84	0.58
46:KJ:167:PHE:CZ	46:KJ:233:MET:HG3	2.38	0.58
45:KK:195:LEU:HD21	45:KK:264:ARG:HH12	1.68	0.58
46:LF:7:ILE:HG22	46:LF:64:ILE:HB	1.84	0.58
46:LH:52:ASN:OD1	46:LH:62:ARG:NH2	2.36	0.58
46:LH:350:LYS:HD3	46:LH:351:SER:N	2.17	0.58
46:LJ:86:ARG:HD2	46:LJ:88:ASP:HB2	1.85	0.58
46:LL:7:ILE:HG22	46:LL:64:ILE:HB	1.84	0.58
45:MG:408:TYR:HB3	45:MG:413:MET:HE2	1.84	0.58
45:MI:116:ASP:OD1	45:MI:117:LEU:N	2.36	0.58
46:NJ:36:TYR:CE1	46:NJ:44:LEU:HD21	2.38	0.58
45:NM:221:ARG:NE	46:NN:325:GLU:OE1	2.34	0.58
46:NN:292:GLN:NE2	46:NN:298:ASN:OD1	2.35	0.58
46:OB:229:VAL:O	46:OB:233:MET:HG2	2.04	0.58
46:OB:240:LEU:HD11	46:OB:249:ASP:HA	1.84	0.58
46:OD:86:ARG:HH22	46:PD:282:ARG:HA	1.67	0.58
45:OI:167:LEU:HD13	45:OI:200:VAL:HB	1.84	0.58
46:OJ:86:ARG:HG2	46:OJ:89:ASN:ND2	2.18	0.58
45:OM:54:SER:HB3	45:OM:64:ARG:HH21	1.67	0.58
46:PB:100:ASN:ND2	46:PB:401:GLU:OE1	2.36	0.58
45:PC:244:PHE:HB2	45:PC:356:ASN:HD21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:254:GLU:HG3	46:PH:98:GLY:HA2	1.86	0.58
46:QF:3:GLU:HG2	46:QF:62:ARG:HH12	1.68	0.58
46:QF:164:MET:HB3	46:QF:197:ASP:H	1.67	0.58
46:QL:207:LEU:HB3	46:QL:225:LEU:CD1	2.34	0.58
46:RB:183:TYR:O	46:RB:187:LEU:HG	2.03	0.58
46:RF:138:SER:HA	46:RF:169:VAL:HB	1.86	0.58
46:RH:131:GLN:HE22	46:RH:249:ASP:HB2	1.68	0.58
45:RK:155:GLU:OE2	45:RK:193:SER:OG	2.19	0.58
46:SB:89:ASN:ND2	46:SB:123:GLU:OE1	2.36	0.58
46:SF:313:ALA:HB1	46:SF:367:PHE:HE1	1.67	0.58
46:SJ:316:LEU:HD13	46:SJ:352:SER:HB2	1.85	0.58
45:SK:78:VAL:HA	45:SK:84:ARG:NH2	2.18	0.58
45:SK:244:PHE:HB2	45:SK:356:ASN:HD21	1.67	0.58
46:SN:222:TYR:O	46:SN:226:ASN:ND2	2.27	0.58
45:TE:69:ASP:OD1	45:TE:70:LEU:N	2.35	0.58
46:TF:8:GLN:HE22	46:TF:17:GLY:HA3	1.68	0.58
46:TJ:215:LEU:HD11	46:TJ:273:LEU:HD12	1.86	0.58
46:TJ:405:GLU:HA	46:TJ:408:PHE:HD2	1.68	0.58
46:UF:247:ASN:ND2	45:UG:71:GLU:OE1	2.35	0.58
46:UF:275:SER:O	46:UF:279:GLN:NE2	2.36	0.58
46:UN:289:LEU:HD13	46:UN:365:VAL:HG23	1.85	0.58
46:VF:316:LEU:HD13	46:VF:352:SER:HB2	1.84	0.58
45:WC:221:ARG:NH2	46:WD:322:SER:H	1.99	0.58
46:WJ:3:GLU:HG3	46:WJ:49:VAL:HA	1.85	0.58
45:CE:335:ILE:HA	45:CE:338:LYS:NZ	2.19	0.58
45:DC:268:MET:SD	45:DC:380:ASN:HB3	2.43	0.58
7:1G:172:TYR:OH	45:KA:1:MET:O	2.16	0.58
40:6G:95:VAL:HG13	45:UK:96:LYS:HZ1	1.66	0.58
40:6G:138:LYS:HD2	45:VG:341:ILE:HD11	1.86	0.58
47:AA:501:GTP:O1G	46:AB:252:LYS:NZ	2.27	0.58
46:AH:207:LEU:HB3	46:AH:225:LEU:HD22	1.85	0.58
45:BA:426:ALA:HB1	45:BA:430:LYS:NZ	2.18	0.58
46:BD:316:LEU:HD13	46:BD:352:SER:HB3	1.86	0.58
45:BE:260:VAL:HB	46:BH:397:TRP:HZ2	1.67	0.58
45:BG:420:GLU:HA	45:BG:423:GLU:HG3	1.85	0.58
45:CA:223:THR:HG23	45:CA:225:THR:H	1.68	0.58
46:CH:318:ARG:HB3	46:CH:357:PRO:HA	1.86	0.58
45:DA:298:PRO:HA	45:DA:301:MET:HE1	1.86	0.58
45:DI:9:VAL:HG12	45:DI:68:LEU:HB2	1.84	0.58
45:EA:226:ASN:ND2	45:EA:367:ASP:OD2	2.36	0.58
45:EM:244:PHE:HB2	45:EM:356:ASN:HD21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:31:ASP:OD2	46:FB:37:HIS:ND1	2.36	0.58
46:FB:135:ILE:HG13	46:FB:152:ILE:HD11	1.85	0.58
46:FH:260:PHE:HB2	46:FH:263:LEU:HD13	1.85	0.58
46:FN:139:LEU:HD12	46:FN:170:VAL:HG22	1.85	0.58
46:GB:73:MET:HA	46:GB:76:VAL:HG12	1.85	0.58
46:GL:55:THR:HG23	46:HL:283:ALA:HA	1.85	0.58
46:HB:318:ARG:HB3	46:HB:357:PRO:HA	1.86	0.58
46:HD:309:ARG:NH2	46:HD:426:GLN:O	2.30	0.58
45:IE:244:PHE:HB2	45:IE:356:ASN:HD21	1.67	0.58
45:JA:251:ASP:OD1	45:JA:252:ILE:N	2.37	0.58
45:JC:75:ILE:HG22	45:JC:79:ARG:HE	1.67	0.58
46:JD:326:VAL:O	46:JD:330:MET:HG2	2.03	0.58
46:JH:45:GLU:OE1	46:JH:46:ARG:HG2	2.03	0.58
45:KE:214:ARG:HH21	45:KE:215:ARG:HH21	1.50	0.58
45:LM:55:GLU:OE2	45:LM:61:HIS:NE2	2.36	0.58
45:ME:288:VAL:HG11	45:ME:327:ASP:HB3	1.83	0.58
45:MK:55:GLU:OE2	45:MK:61:HIS:NE2	2.37	0.58
45:NA:372:MET:HG2	45:NA:373:ARG:HD3	1.84	0.58
45:NC:88:HIS:CD2	45:NC:90:GLU:HG3	2.39	0.58
45:NI:2:ARG:HH21	45:NI:243:ARG:HA	1.68	0.58
46:NL:258:ILE:HD12	46:NL:264:HIS:HB3	1.85	0.58
46:OB:405:GLU:OE2	46:OB:409:THR:OG1	2.22	0.58
45:OG:140:SER:OG	47:OG:501:GTP:O2B	2.20	0.58
45:PM:108:TYR:CE2	45:PM:413:MET:HB3	2.38	0.58
46:PN:274:THR:HG21	46:PN:282:ARG:HH21	1.69	0.58
46:QD:67:ASP:O	46:QD:92:PHE:HA	2.03	0.58
46:QF:11:GLN:NE2	49:QF:501:GDP:O1A	2.29	0.58
46:QN:207:LEU:HB3	46:QN:225:LEU:HD22	1.84	0.58
46:RD:245:GLN:O	45:RE:11:GLN:NE2	2.36	0.58
45:RK:67:PHE:HB2	45:RK:92:LEU:HG	1.84	0.58
45:SM:116:ASP:OD1	45:SM:117:LEU:N	2.36	0.58
46:TJ:10:GLY:O	46:TJ:14:ASN:ND2	2.36	0.58
46:UB:350:LYS:NZ	46:UB:351:SER:O	2.36	0.58
45:UM:77:GLU:HA	45:UM:80:THR:HG22	1.85	0.58
46:UN:99:ASN:HA	46:UN:142:GLY:H	1.67	0.58
46:VH:49:VAL:HG11	46:VH:241:ARG:HG2	1.85	0.58
45:WA:215:ARG:NH1	45:WA:299:ALA:HB1	2.19	0.58
46:WB:67:ASP:O	46:WB:92:PHE:HA	2.02	0.58
45:WE:212:ILE:HD11	45:WE:300:ASN:HA	1.84	0.58
45:WI:70:LEU:HD13	45:WI:95:GLY:HA3	1.85	0.58
12:1T:65:ARG:HH21	46:MF:111:GLU:N	1.99	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5B:167:LYS:NZ	45:NG:278:ALA:O	2.31	0.58
10:6Q:84:LYS:HZ1	10:6Q:127:GLU:HA	1.68	0.58
45:AI:101:ASN:HA	45:AI:144:GLY:H	1.68	0.58
46:AN:58:ARG:HD2	46:BN:280:GLN:HE22	1.68	0.58
46:BB:5:VAL:HG12	46:BB:62:ARG:HD3	1.85	0.58
46:BL:273:LEU:H	46:BL:292:GLN:HE22	1.50	0.58
45:BM:76:ASP:OD1	45:BM:79:ARG:NH2	2.37	0.58
45:CA:60:LYS:NZ	45:CA:86:LEU:O	2.29	0.58
46:CB:44:LEU:HD22	46:CB:47:ILE:HD13	1.85	0.58
45:DM:254:GLU:HG2	46:DN:98:GLY:HA2	1.85	0.58
46:EB:330:MET:HA	46:EB:333:VAL:HG12	1.84	0.58
45:EC:206:ASN:HA	45:EC:209:ILE:HG12	1.85	0.58
45:FA:75:ILE:HD11	45:FA:92:LEU:HB3	1.84	0.58
45:FC:7:ILE:HB	45:FC:137:VAL:HG12	1.85	0.58
45:FE:71:GLU:OE1	46:FF:247:ASN:ND2	2.36	0.58
45:GA:294:SER:O	45:GA:300:ASN:ND2	2.30	0.58
46:GB:48:ASN:O	46:GB:62:ARG:NH2	2.37	0.58
45:GC:288:VAL:HA	45:GC:291:ILE:HG12	1.86	0.58
45:GG:109:THR:O	45:GG:112:LYS:NZ	2.35	0.58
45:GM:188:ILE:HD12	45:GM:425:LEU:HD11	1.84	0.58
46:GN:135:ILE:HG13	46:GN:152:ILE:HD11	1.85	0.58
45:HC:260:VAL:HB	46:HF:397:TRP:CZ2	2.38	0.58
46:IH:135:ILE:HG13	46:IH:152:ILE:HD11	1.85	0.58
45:II:292:THR:HG21	45:II:331:SER:HB3	1.84	0.58
45:IM:140:SER:OG	47:IM:501:GTP:O2B	2.22	0.58
46:JH:260:PHE:HB2	46:JH:263:LEU:HD13	1.86	0.58
45:JM:90:GLU:OE1	45:KM:280:LYS:NZ	2.30	0.58
45:KA:152:LEU:O	45:KA:156:ARG:HG2	2.03	0.58
45:KE:227:LEU:O	45:KE:231:ILE:HG12	2.03	0.58
46:KN:332:ASN:OD1	46:KN:336:LYS:NZ	2.21	0.58
46:MF:114:ASP:OD1	46:MF:115:SER:N	2.36	0.58
45:NA:116:ASP:OD1	45:NA:117:LEU:N	2.34	0.58
46:NB:203:ASP:OD2	46:NB:205:GLU:HG2	2.04	0.58
45:NG:326:LYS:NZ	46:NJ:218:THR:O	2.24	0.58
46:OD:200:MET:HE2	46:OD:268:ILE:HG23	1.84	0.58
46:OD:333:VAL:HA	46:OD:336:LYS:HG2	1.86	0.58
46:OF:12:CYS:O	46:OF:16:ILE:HG12	2.03	0.58
45:OK:350:GLY:HA2	46:ON:179:VAL:HG23	1.84	0.58
46:ON:143:THR:O	46:ON:147:MET:HG2	2.03	0.58
46:QF:346:PRO:HG2	45:QG:394:LYS:HZ2	1.67	0.58
46:QH:105:HIS:CE1	46:QH:150:LEU:HD13	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QL:164:MET:SD	46:QL:197:ASP:N	2.67	0.58
46:RD:311:LEU:N	46:RD:370:ASN:O	2.32	0.58
46:RF:73:MET:HA	46:RF:76:VAL:HG12	1.85	0.58
45:RI:123:ARG:NH2	45:RI:160:ASP:OD1	2.36	0.58
45:RK:140:SER:OG	47:RK:501:GTP:O2B	2.13	0.58
46:SF:51:TYR:HB3	46:SF:59:TYR:HB3	1.85	0.58
45:TE:353:VAL:HG12	46:TF:177:ASP:OD1	2.03	0.58
45:TG:133:GLN:HB3	45:TG:252:ILE:HD11	1.85	0.58
46:TJ:289:LEU:O	46:TJ:293:MET:HG3	2.04	0.58
46:TL:145:SER:HB2	46:TL:188:SER:HB3	1.85	0.58
45:UG:251:ASP:OD1	45:UG:252:ILE:N	2.34	0.58
45:UG:399:TYR:O	45:UG:402:ARG:NH1	2.37	0.58
46:UH:64:ILE:HD12	46:UH:120:VAL:HG12	1.86	0.58
45:UK:319:TYR:HB3	45:UK:323:VAL:HG11	1.84	0.58
46:UN:73:MET:HA	46:UN:76:VAL:HG12	1.86	0.58
46:VB:178:THR:HB	46:VB:181:GLU:HG3	1.85	0.58
46:VF:372:THR:HA	46:VF:422:TYR:HE2	1.67	0.58
45:WC:260:VAL:HB	46:WF:397:TRP:CZ2	2.38	0.58
45:WE:326:LYS:HE2	45:WE:326:LYS:HA	1.84	0.58
46:WN:31:ASP:OD1	46:WN:35:THR:N	2.35	0.58
46:WN:248:SER:HA	46:WN:252:LYS:HD2	1.84	0.58
45:DC:11:GLN:HB2	45:DC:74:VAL:HG11	1.85	0.58
45:DC:318:MET:HG2	45:DC:376:CYS:SG	2.44	0.58
2:OB:22:LEU:O	46:JH:276:ARG:NH1	2.37	0.58
37:5F:116:TYR:O	37:5F:118:PRO:HD3	2.02	0.58
39:6F:85:THR:HG22	39:6F:88:MET:HG2	1.84	0.58
46:AB:410:GLU:O	46:AB:414:ASN:ND2	2.37	0.58
46:AD:105:HIS:CE1	46:AD:150:LEU:HD12	2.37	0.58
45:CK:334:THR:O	45:CK:338:LYS:HG3	2.04	0.58
46:DF:171:PRO:HB2	46:DF:181:GLU:OE2	2.03	0.58
45:EC:349:THR:OG1	46:ED:176:SER:OG	2.17	0.58
45:EE:68:LEU:HD13	45:EE:93:ILE:HB	1.85	0.58
46:FF:237:THR:HG23	46:FF:241:ARG:NH1	2.19	0.58
46:FL:52:ASN:OD1	46:FL:62:ARG:NH2	2.37	0.58
46:FL:139:LEU:HD13	46:FL:168:SER:HB3	1.85	0.58
45:GA:407:TRP:HH2	46:GB:258:ILE:HB	1.69	0.58
46:GB:249:ASP:OD1	46:GB:252:LYS:N	2.33	0.58
46:GH:371:SER:O	46:GH:422:TYR:OH	2.18	0.58
46:ID:316:LEU:HB2	46:ID:366:THR:HG22	1.84	0.58
45:IE:5:ILE:HD12	45:IE:135:PHE:HE2	1.69	0.58
46:JD:36:TYR:CZ	46:JD:44:LEU:HD11	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JG:28:HIS:NE2	45:JG:48:ALA:O	2.28	0.58
46:JJ:274:THR:HG21	46:JJ:282:ARG:HD3	1.83	0.58
46:JL:183:TYR:HB3	46:JL:398:TYR:HE2	1.69	0.58
45:JM:113:GLU:OE2	45:JM:113:GLU:N	2.31	0.58
46:KF:52:ASN:OD1	46:KF:62:ARG:NH2	2.36	0.58
46:MJ:31:ASP:OD1	46:MJ:37:HIS:NE2	2.36	0.58
46:MN:309:ARG:NH2	46:MN:426:GLN:O	2.27	0.58
46:ND:19:LYS:HG3	46:ND:226:ASN:HB3	1.84	0.58
46:NF:31:ASP:OD1	46:NF:35:THR:N	2.34	0.58
46:NH:403:MET:HB2	46:NH:407:GLU:OE1	2.03	0.58
45:NI:7:ILE:HB	45:NI:137:VAL:HG12	1.85	0.58
45:OA:121:ARG:HD2	45:OA:124:LYS:HZ1	1.69	0.58
46:OB:262:ARG:NH1	46:OB:421:GLU:OE1	2.37	0.58
46:OD:237:THR:OG1	46:OD:241:ARG:NH2	2.37	0.58
46:OD:249:ASP:H	46:OD:252:LYS:HE3	1.67	0.58
45:OK:4:VAL:HG11	45:OK:136:LEU:HD23	1.84	0.58
46:ON:306:ARG:HA	46:ON:340:TYR:HE1	1.69	0.58
45:PA:99:ALA:HB3	45:PA:145:THR:HB	1.86	0.58
45:PA:342:GLN:NE2	45:PA:343:PHE:O	2.37	0.58
46:PD:289:LEU:O	46:PD:293:MET:HG3	2.03	0.58
45:PG:174:SER:HB2	45:PG:177:VAL:O	2.04	0.58
46:PL:268:ILE:HG22	46:PL:368:VAL:HG22	1.85	0.58
45:QC:390:ARG:HB3	45:QC:394:LYS:NZ	2.19	0.58
46:QH:86:ARG:HH22	46:RH:282:ARG:HA	1.69	0.58
46:QH:208:TYR:CE1	46:QH:225:LEU:HD11	2.38	0.58
45:RC:140:SER:OG	47:RC:501:GTP:O2B	2.18	0.58
46:RL:217:LEU:HD23	46:RL:219:THR:H	1.67	0.58
46:RN:257:LEU:HD11	46:RN:314:SER:HB2	1.86	0.58
46:SD:6:HIS:O	46:SD:63:ALA:HA	2.02	0.58
45:SE:27:GLU:HB3	45:SE:361:THR:HG21	1.86	0.58
46:SH:114:ASP:OD1	46:SH:115:SER:N	2.36	0.58
45:SK:82:THR:HG23	45:SK:83:TYR:CD1	2.39	0.58
45:SM:108:TYR:HA	45:SM:112:LYS:HE3	1.85	0.58
46:TD:222:TYR:O	46:TD:226:ASN:ND2	2.25	0.58
46:TF:55:THR:HG23	46:UF:283:ALA:HA	1.85	0.58
45:TG:109:THR:HG22	45:TG:110:ILE:HG23	1.83	0.58
46:TJ:2:ARG:NH2	45:TK:72:PRO:HD2	2.19	0.58
46:UJ:12:CYS:O	46:UJ:16:ILE:HD12	2.03	0.58
45:WA:140:SER:OG	47:WA:501:GTP:O2B	2.21	0.58
45:WC:372:MET:HG2	45:WC:373:ARG:HD3	1.85	0.58
45:WG:250:VAL:HG13	45:WG:254:GLU:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WH:290:THR:HA	46:WH:293:MET:HG3	1.85	0.58
45:WM:27:GLU:OE2	45:WM:243:ARG:NH1	2.35	0.58
3:1C:53:TYR:HB3	45:EM:221:ARG:HH21	1.67	0.58
4:1D:99:ARG:HH12	45:EG:365:GLY:H	1.52	0.58
18:1I:22:LEU:HD12	46:ID:46:ARG:HE	1.67	0.58
14:1V:22:ARG:NH2	45:MI:422:ARG:HH12	1.99	0.58
15:2X:49:ILE:HG12	45:MI:282:TYR:CD2	2.38	0.58
10:5Q:91:VAL:HG12	10:5Q:154:VAL:HG12	1.85	0.58
35:5S:76:ILE:HA	35:5S:89:TRP:CD1	2.39	0.58
35:5S:111:GLU:HG2	35:5S:116:TYR:HB2	1.86	0.58
40:6G:211:SER:HB3	46:VF:213:ARG:HH22	1.68	0.58
46:AB:148:GLY:O	46:AB:152:ILE:HG12	2.03	0.58
46:AD:403:MET:HB3	46:AD:407:GLU:OE2	2.04	0.58
46:AF:148:GLY:O	46:AF:152:ILE:HG12	2.03	0.58
46:AH:68:LEU:HD12	46:AH:93:GLY:HA3	1.86	0.58
46:AH:167:PHE:CE1	46:AH:233:MET:HG2	2.38	0.58
46:AL:67:ASP:OD1	46:AL:68:LEU:N	2.36	0.58
46:BB:207:LEU:HB3	46:BB:225:LEU:HD22	1.86	0.58
45:BC:284:GLU:HG3	45:BC:286:LEU:HD12	1.86	0.58
45:BI:426:ALA:O	45:BI:430:LYS:HG2	2.04	0.58
46:CH:22:GLU:HG3	46:CH:81:PHE:CD2	2.37	0.58
46:ED:12:CYS:O	46:ED:16:ILE:HG12	2.04	0.58
45:EE:172:TYR:HH	45:EE:191:THR:HG1	1.50	0.58
45:EG:176:GLN:OE1	45:EG:304:LYS:NZ	2.37	0.58
45:EK:326:LYS:HD2	46:EL:220:PRO:HD2	1.85	0.58
46:EL:45:GLU:HG2	46:EL:46:ARG:HG2	1.86	0.58
45:FA:285:GLN:O	45:FA:373:ARG:NH2	2.37	0.58
46:FD:173:PRO:HG2	46:FD:380:ARG:HH11	1.67	0.58
46:FF:222:TYR:HA	46:FF:225:LEU:HD12	1.86	0.58
45:GE:292:THR:HG21	45:GE:331:SER:HB3	1.86	0.58
46:HB:45:GLU:HG3	46:HB:46:ARG:HG2	1.86	0.58
46:HH:175:VAL:HG22	46:HH:205:GLU:HB3	1.86	0.58
46:IB:248:SER:HA	46:IB:252:LYS:HG3	1.86	0.58
45:JI:123:ARG:HH11	45:JI:123:ARG:HA	1.69	0.58
46:JJ:1:MET:HG3	46:JJ:48:ASN:HD21	1.67	0.58
46:JJ:222:TYR:O	46:JJ:226:ASN:ND2	2.29	0.58
46:JN:8:GLN:HE21	46:JN:14:ASN:HA	1.68	0.58
45:KA:65:ALA:O	45:KA:91:GLN:NE2	2.37	0.58
45:MG:11:GLN:NE2	46:MH:245:GLN:O	2.36	0.58
45:NA:214:ARG:HH12	45:NA:220:GLU:HA	1.67	0.58
45:NK:226:ASN:ND2	45:NK:367:ASP:OD2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:265:ILE:HG12	45:NM:432:TYR:HE1	1.69	0.58
46:NN:178:THR:HB	46:NN:181:GLU:HG3	1.84	0.58
46:NN:313:ALA:HB1	46:NN:367:PHE:HE1	1.68	0.58
46:OH:10:GLY:O	46:OH:14:ASN:ND2	2.37	0.58
46:OL:60:VAL:HG11	46:OL:86:ARG:HH21	1.68	0.58
45:PE:60:LYS:HZ3	45:PE:86:LEU:HA	1.69	0.58
45:PG:155:GLU:HA	45:PG:197:HIS:HD2	1.69	0.58
46:PH:222:TYR:O	46:PH:226:ASN:ND2	2.24	0.58
45:PI:90:GLU:H	45:QI:280:LYS:HZ1	1.52	0.58
46:PN:388:MET:N	46:PN:388:MET:HE2	2.18	0.58
45:QC:426:ALA:HB1	45:QC:430:LYS:NZ	2.18	0.58
45:QG:141:VAL:HG11	45:QG:172:TYR:HD1	1.68	0.58
46:QL:2:ARG:HH21	45:QM:72:PRO:HD3	1.67	0.58
45:RC:336:LYS:O	45:RC:339:ARG:NH2	2.36	0.58
45:RK:188:ILE:HD12	45:RK:425:LEU:HD11	1.86	0.58
46:RN:55:THR:HG23	46:SN:283:ALA:HA	1.85	0.58
45:SA:55:GLU:HG3	45:SA:57:GLY:H	1.67	0.58
45:SM:121:ARG:HA	45:SM:124:LYS:HG2	1.85	0.58
45:TC:89:PRO:HD2	45:UC:280:LYS:HE3	1.86	0.58
46:TD:200:MET:HG3	46:TD:266:PHE:HB2	1.86	0.58
46:TF:151:LEU:HA	46:TF:154:LYS:NZ	2.19	0.58
45:UC:329:ASN:HA	45:UC:332:ILE:HG12	1.84	0.58
46:UD:109:GLY:O	46:UD:113:ILE:HG23	2.04	0.58
46:UJ:320:ARG:NH2	45:UK:221:ARG:HH21	2.00	0.58
46:VD:260:PHE:HB2	46:VD:263:LEU:HD23	1.86	0.58
45:VG:324:VAL:HG12	45:VG:326:LYS:HG2	1.86	0.58
45:VG:328:VAL:HG11	45:VG:353:VAL:HG21	1.84	0.58
45:DC:231:ILE:O	45:DC:235:ILE:HG12	2.03	0.58
45:DC:251:ASP:OD1	45:DC:252:ILE:N	2.36	0.58
14:1V:24:ARG:HH22	45:MI:434:GLU:HG2	1.69	0.58
15:1X:75:LEU:HD12	46:MF:280:GLN:HE22	1.69	0.58
23:2O:288:LYS:HZ1	46:VH:360:GLY:HA2	1.66	0.58
35:5S:110:ARG:HG3	35:5S:152:THR:HG21	1.85	0.58
46:AB:268:ILE:HG22	46:AB:368:VAL:HG22	1.84	0.58
45:AC:80:THR:O	45:AC:84:ARG:NH2	2.37	0.58
45:BC:88:HIS:O	45:BC:91:GLN:HG2	2.04	0.58
45:BK:316:SER:HA	45:BK:352:LYS:HB2	1.86	0.58
45:BM:222:PRO:HD2	46:BN:324:LYS:CE	2.33	0.58
46:BN:328:GLU:O	46:BN:332:ASN:ND2	2.30	0.58
46:BN:407:GLU:HA	46:BN:410:GLU:HG2	1.84	0.58
46:DJ:99:ASN:ND2	46:DJ:178:THR:HG21	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DL:87:PRO:HA	46:DL:90:PHE:HD2	1.68	0.58
45:EC:286:LEU:HD21	45:EC:371:VAL:HG13	1.86	0.58
45:EC:296:PHE:HE2	45:EC:335:ILE:HG13	1.68	0.58
45:EG:251:ASP:OD1	45:EG:252:ILE:N	2.36	0.58
46:EH:39:ASP:OD2	46:EH:43:GLN:NE2	2.37	0.58
46:EL:8:GLN:HE21	46:EL:65:LEU:HG	1.69	0.58
46:EN:32:PRO:HG3	46:EN:81:PHE:HE1	1.68	0.58
46:EN:299:MET:HG3	46:EN:305:PRO:HG3	1.86	0.58
46:FH:31:ASP:OD2	46:FH:35:THR:OG1	2.21	0.58
46:FJ:276:ARG:HA	46:FJ:279:GLN:HB2	1.85	0.58
46:FJ:289:LEU:HD13	46:FJ:365:VAL:HG23	1.86	0.58
45:GE:133:GLN:HB3	45:GE:252:ILE:HD11	1.86	0.58
45:GG:292:THR:HG21	45:GG:331:SER:HB3	1.86	0.58
45:HA:390:ARG:NH1	45:HA:391:LEU:HG	2.18	0.58
46:HJ:99:ASN:HA	46:HJ:142:GLY:H	1.68	0.58
46:IJ:318:ARG:HB3	46:IJ:357:PRO:HA	1.84	0.58
46:JF:259:PRO:HG2	46:JF:311:LEU:HD23	1.86	0.58
45:KE:33:ASP:OD1	45:KE:34:GLY:N	2.37	0.58
46:LD:203:ASP:OD2	46:LD:302:ALA:N	2.32	0.58
45:MA:116:ASP:OD1	45:MA:117:LEU:N	2.36	0.58
46:MB:137:HIS:CE1	46:MB:166:THR:OG1	2.57	0.58
46:NH:58:ARG:NH2	46:OH:280:GLN:HG3	2.19	0.58
45:NK:105:ARG:NH2	45:NK:411:GLU:OE2	2.37	0.58
45:OE:90:GLU:O	45:OE:121:ARG:NH1	2.36	0.58
45:PK:199:ASP:HB3	45:PK:256:GLN:NE2	2.19	0.58
45:PK:398:MET:HG3	46:PL:345:ILE:HG22	1.84	0.58
46:QB:207:LEU:HB3	46:QB:225:LEU:HD22	1.85	0.58
45:QG:69:ASP:O	45:QG:94:SER:HA	2.03	0.58
46:QL:331:LEU:HD11	45:QM:177:VAL:HG22	1.84	0.58
45:RG:254:GLU:OE2	46:RH:99:ASN:ND2	2.37	0.58
46:SJ:207:LEU:HD23	46:SJ:225:LEU:HB2	1.84	0.58
46:SJ:347:ASN:ND2	45:SK:176:GLN:O	2.36	0.58
46:SL:268:ILE:HG13	46:SL:300:MET:HE2	1.86	0.58
46:TB:86:ARG:NH2	46:TB:123:GLU:OE2	2.37	0.58
46:TB:212:PHE:HE1	46:TB:220:PRO:HG2	1.67	0.58
45:TK:115:VAL:O	45:TK:119:LEU:HG	2.03	0.58
45:UC:208:ALA:HB2	45:UC:304:LYS:HD3	1.86	0.58
45:UG:2:ARG:HG3	45:UG:51:THR:HG22	1.86	0.58
46:UL:86:ARG:HH11	46:VL:282:ARG:HH12	1.51	0.58
46:UN:11:GLN:N	49:UN:501:GDP:O3B	2.33	0.58
46:UN:86:ARG:NH1	46:UN:89:ASN:OD1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:32:PRO:O	46:VB:83:GLN:NE2	2.27	0.58
46:VB:318:ARG:HB3	46:VB:364:ALA:HB3	1.85	0.58
45:VE:75:ILE:HG23	45:VE:92:LEU:HD23	1.84	0.58
46:VF:278:SER:HA	46:VF:281:TYR:HD2	1.69	0.58
46:VF:336:LYS:HE3	46:VF:336:LYS:HA	1.86	0.58
46:VL:77:ARG:NH2	46:VL:83:GLN:HA	2.19	0.58
45:WC:51:THR:HG23	45:WC:52:PHE:CD2	2.38	0.58
45:WK:229:ARG:HD2	45:WK:363:VAL:HG11	1.85	0.58
14:OV:113:ARG:HE	45:LM:196:GLU:HA	1.69	0.58
9:1N:190:PRO:HG2	45:KG:42:ILE:HG21	1.85	0.58
34:4R:351:ASN:OD1	34:4R:352:CYS:N	2.37	0.58
37:5G:87:LEU:HD13	37:5G:92:GLN:HB3	1.86	0.58
46:AB:221:THR:HG23	46:AB:224:ASP:H	1.68	0.58
46:BB:100:ASN:ND2	46:BB:401:GLU:OE1	2.37	0.58
45:BE:135:PHE:HE2	45:BE:157:LEU:HD12	1.69	0.58
46:BN:6:HIS:NE2	46:BN:8:GLN:OE1	2.37	0.58
46:CB:39:ASP:OD1	46:CB:40:SER:N	2.37	0.58
46:CB:207:LEU:HD22	46:CB:228:LEU:HD11	1.86	0.58
46:CH:109:GLY:O	46:CH:113:ILE:HG23	2.04	0.58
45:CM:55:GLU:HG3	45:CM:57:GLY:H	1.69	0.58
45:DE:141:VAL:HG11	45:DE:172:TYR:CD1	2.39	0.58
46:DL:129:CYS:SG	45:DM:96:LYS:HE3	2.44	0.58
45:EE:120:ASP:OD1	45:EE:123:ARG:NH2	2.37	0.58
46:EF:12:CYS:O	46:EF:16:ILE:HG12	2.04	0.58
46:EH:150:LEU:O	46:EH:154:LYS:HG2	2.04	0.58
45:EI:319:TYR:HB3	45:EI:323:VAL:HG21	1.86	0.58
45:EK:288:VAL:HA	45:EK:291:ILE:HG12	1.84	0.58
45:FA:33:ASP:HA	45:FA:85:GLN:HE21	1.67	0.58
45:FM:231:ILE:O	45:FM:235:ILE:HG12	2.04	0.58
46:HD:237:THR:HG23	46:HD:241:ARG:HH21	1.67	0.58
46:HD:326:VAL:O	46:HD:330:MET:HG2	2.03	0.58
45:HE:90:GLU:OE2	45:HE:121:ARG:NH2	2.35	0.58
45:IA:121:ARG:HA	45:IA:124:LYS:NZ	2.18	0.58
46:IJ:107:THR:OG1	46:IJ:108:GLU:OE1	2.22	0.58
46:IL:332:ASN:O	46:IL:336:LYS:HG3	2.03	0.58
45:JE:46:ASP:OD1	45:JE:47:ASP:N	2.37	0.58
45:JE:251:ASP:OD1	45:JE:252:ILE:N	2.37	0.58
45:KG:394:LYS:NZ	46:KH:346:PRO:O	2.36	0.58
46:KN:167:PHE:HA	46:KN:200:MET:HB2	1.85	0.58
46:LD:156:ARG:HG3	46:LD:195:ASN:HB3	1.86	0.58
45:MA:150:GLY:O	45:MA:154:LEU:HD23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MD:322:SER:OG	46:MD:325:GLU:OE1	2.22	0.58
45:MG:71:GLU:HB2	45:MG:98:ASP:HB3	1.85	0.58
46:MN:114:ASP:OD1	46:MN:115:SER:N	2.37	0.58
46:OB:221:THR:HG22	46:OB:223:GLY:H	1.68	0.58
46:OD:10:GLY:O	46:OD:14:ASN:ND2	2.35	0.58
46:OJ:83:GLN:O	46:PJ:281:TYR:OH	2.20	0.58
46:PD:153:SER:HB2	46:PD:191:GLN:HE21	1.68	0.58
45:PM:140:SER:OG	47:PM:501:GTP:O2B	2.20	0.58
46:QH:273:LEU:N	46:QH:292:GLN:HE22	2.02	0.58
46:QL:2:ARG:NH1	45:QM:98:ASP:H	2.01	0.58
45:RI:56:THR:HG23	45:RI:58:ALA:H	1.68	0.58
46:SB:303:ALA:HB2	46:SB:377:MET:HE1	1.86	0.58
45:SK:31:GLN:HB3	45:SK:33:ASP:OD1	2.03	0.58
45:TC:55:GLU:O	45:UC:285:GLN:NE2	2.37	0.58
46:TD:54:ALA:HB3	46:TD:58:ARG:HG2	1.86	0.58
45:TG:352:LYS:HZ3	46:TH:178:THR:N	2.01	0.58
46:TH:405:GLU:OE2	46:TH:409:THR:OG1	2.21	0.58
45:UC:426:ALA:HB1	45:UC:430:LYS:NZ	2.19	0.58
45:UI:352:LYS:NZ	46:UJ:178:THR:HA	2.18	0.58
46:VD:68:LEU:HB3	46:VD:96:GLY:HA2	1.85	0.58
45:VG:90:GLU:OE2	45:VG:121:ARG:NH1	2.37	0.58
46:VH:330:MET:HB3	46:VH:349:ILE:HD13	1.85	0.58
46:VL:67:ASP:O	46:VL:92:PHE:HA	2.03	0.58
46:VL:143:THR:O	46:VL:147:MET:HG3	2.04	0.58
45:WA:352:LYS:HE2	46:WD:178:THR:HA	1.86	0.58
46:WD:68:LEU:HD23	46:WD:143:THR:HB	1.86	0.58
45:WI:260:VAL:HG23	46:WL:397:TRP:HE1	1.69	0.58
45:CE:174:SER:HB3	45:CE:177:VAL:O	2.03	0.58
20:2K:354:TRP:CH2	46:GJ:276:ARG:HG3	2.39	0.58
23:2O:177:LYS:HZ2	46:VL:362:LYS:HE2	1.67	0.58
11:3S:152:SER:OG	46:WN:94:GLN:NE2	2.37	0.58
36:5C:126:ILE:HG23	46:NL:224:ASP:OD1	2.03	0.58
39:6F:62:GLN:H	45:IE:84:ARG:HH12	1.52	0.58
46:AB:166:THR:HG21	46:AB:192:LEU:HD11	1.86	0.58
46:AF:178:THR:HG22	46:AF:180:VAL:H	1.68	0.58
46:AL:10:GLY:O	46:AL:14:ASN:ND2	2.36	0.58
45:BC:221:ARG:HD2	46:BD:324:LYS:NZ	2.17	0.58
45:BM:90:GLU:HG3	45:BM:121:ARG:NH1	2.19	0.58
46:BN:273:LEU:H	46:BN:292:GLN:HE22	1.52	0.58
45:CK:53:PHE:O	45:CK:64:ARG:NH2	2.37	0.58
46:CL:214:THR:OG1	46:CL:297:LYS:NZ	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CL:392:LYS:HA	46:CL:395:LEU:HD12	1.85	0.58
45:DE:68:LEU:HD22	45:DE:153:LEU:HD11	1.86	0.58
46:EJ:371:SER:O	46:EJ:422:TYR:OH	2.21	0.58
46:FF:238:CYS:SG	46:FF:239:CYS:N	2.77	0.58
46:FH:268:ILE:HG22	46:FH:368:VAL:HG22	1.85	0.58
45:FI:71:GLU:OE2	46:FJ:2:ARG:NH2	2.37	0.58
45:FK:9:VAL:HG12	45:FK:68:LEU:HB2	1.84	0.58
45:GC:402:ARG:NH1	45:GC:415:GLU:OE2	2.28	0.58
45:HM:76:ASP:OD2	46:HN:46:ARG:NH2	2.37	0.58
45:II:172:TYR:HD1	45:II:173:PRO:HD2	1.69	0.58
46:IL:7:ILE:HG13	46:IL:135:ILE:HG12	1.85	0.58
45:JK:88:HIS:ND1	45:JK:90:GLU:OE1	2.36	0.58
46:LJ:91:VAL:HG21	46:LJ:116:VAL:HB	1.86	0.58
45:LK:289:ALA:O	45:LK:293:ASN:ND2	2.27	0.58
45:MA:56:THR:HG23	45:MA:58:ALA:H	1.68	0.58
45:MC:176:GLN:NE2	45:MC:207:GLU:OE2	2.37	0.58
45:NA:286:LEU:O	45:NA:373:ARG:NH2	2.36	0.58
46:NH:128:ASP:OD1	46:NH:129:CYS:N	2.37	0.58
46:NH:391:ARG:HG3	46:NH:393:ALA:H	1.69	0.58
46:NL:99:ASN:HA	46:NL:142:GLY:HA3	1.85	0.58
46:NL:392:LYS:HG3	46:NL:395:LEU:HD23	1.85	0.58
45:OA:133:GLN:NE2	45:OA:251:ASP:OD1	2.37	0.58
45:OA:262:TYR:OH	46:OD:391:ARG:O	2.21	0.58
45:OE:98:ASP:OD1	45:OE:99:ALA:N	2.36	0.58
46:PL:389:PHE:CZ	46:PL:405:GLU:HG3	2.39	0.58
46:QB:49:VAL:HG21	46:QB:241:ARG:HG2	1.86	0.58
46:QL:272:PRO:HD2	46:QL:361:LEU:HD21	1.86	0.58
45:RC:404:PHE:HA	45:RC:407:TRP:CZ3	2.39	0.58
46:SD:148:GLY:O	46:SD:152:ILE:HG12	2.03	0.58
45:UA:120:ASP:OD1	45:UA:123:ARG:NH1	2.37	0.58
45:UG:88:HIS:HB3	45:UG:91:GLN:HG2	1.86	0.58
46:UN:183:TYR:HA	46:UN:385:PHE:HE2	1.69	0.58
46:VD:406:MET:O	46:VD:410:GLU:HG2	2.02	0.58
45:VG:422:ARG:NH1	45:VG:422:ARG:O	2.37	0.58
46:VH:186:THR:HA	46:VH:189:VAL:HG12	1.86	0.58
46:VL:104:GLY:O	46:VL:147:MET:HB3	2.04	0.58
45:WE:338:LYS:HD3	45:WE:340:THR:HG22	1.86	0.58
46:WJ:73:MET:HA	46:WJ:76:VAL:HG12	1.85	0.58
46:WL:380:ARG:NH2	46:WL:383:GLU:OE1	2.37	0.58
45:WM:244:PHE:HB2	45:WM:356:ASN:HD21	1.68	0.58
8:1H:190:LYS:NZ	45:GG:58:ALA:HB3	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:1L:668:GLN:NE2	45:CE:367:ASP:OD1	2.37	0.57
23:2O:181:MET:SD	46:VL:279:GLN:NE2	2.48	0.57
30:3H:199:GLU:OE2	46:AH:245:GLN:NE2	2.36	0.57
36:5A:65:THR:HG23	36:5A:68:ASP:H	1.69	0.57
37:5F:46:LEU:N	37:5F:48:ARG:HH22	2.01	0.57
39:6F:44:ARG:HB3	46:IF:41:ASP:HB2	1.85	0.57
40:6G:166:PHE:HE2	46:VH:212:PHE:HB3	1.66	0.57
34:7R:404:LEU:HD21	46:DB:77:ARG:HG2	1.84	0.57
46:AB:295:ASP:OD1	46:AB:297:LYS:NZ	2.37	0.57
45:AG:392:ASP:OD2	45:AG:422:ARG:NE	2.37	0.57
45:BE:326:LYS:HZ1	46:BH:220:PRO:HD2	1.67	0.57
45:BK:254:GLU:HG2	46:BN:98:GLY:HA2	1.86	0.57
46:BN:77:ARG:HH12	46:BN:83:GLN:HA	1.69	0.57
46:BN:290:THR:HA	46:BN:293:MET:HG2	1.86	0.57
46:CF:65:LEU:HD22	46:CF:90:PHE:HE1	1.69	0.57
45:CI:346:TRP:CD1	46:CJ:391:ARG:HG3	2.39	0.57
46:CL:321:MET:HB2	45:CM:221:ARG:NH2	2.18	0.57
46:DJ:73:MET:HA	46:DJ:76:VAL:HG12	1.86	0.57
45:DM:108:TYR:O	45:DM:112:LYS:NZ	2.35	0.57
45:EE:108:TYR:O	45:EE:112:LYS:NZ	2.35	0.57
45:FA:73:THR:OG1	46:FB:247:ASN:ND2	2.37	0.57
45:FC:141:VAL:HG11	45:FC:172:TYR:CD1	2.39	0.57
46:FL:326:VAL:O	46:FL:330:MET:HG2	2.04	0.57
45:GA:171:ILE:O	45:GA:171:ILE:HG13	2.04	0.57
46:GD:179:VAL:HG13	46:GD:180:VAL:HG23	1.85	0.57
46:GL:392:LYS:HA	46:GL:395:LEU:HD12	1.85	0.57
45:HC:390:ARG:HG3	45:HC:391:LEU:HD12	1.86	0.57
46:HF:68:LEU:HB3	46:HF:96:GLY:HA2	1.85	0.57
45:HG:258:ASN:HD22	45:HG:352:LYS:HB2	1.69	0.57
46:HH:222:TYR:O	46:HH:226:ASN:ND2	2.23	0.57
45:II:326:LYS:NZ	46:IL:212:PHE:HB2	2.18	0.57
45:JA:180:ALA:HB3	45:JA:183:GLU:HG3	1.84	0.57
45:JC:335:ILE:HA	45:JC:338:LYS:HZ3	1.68	0.57
45:JE:88:HIS:NE2	45:KE:284:GLU:OE2	2.36	0.57
45:JI:181:VAL:N	46:JJ:350:LYS:HZ1	2.02	0.57
45:KM:127:ASP:OD1	45:KM:128:ASN:N	2.37	0.57
46:LB:376:GLU:HB3	46:LB:380:ARG:HH21	1.68	0.57
45:LG:206:ASN:OD1	47:LG:501:GTP:N2	2.35	0.57
46:MB:268:ILE:N	46:MB:299:MET:HE1	2.19	0.57
46:MD:200:MET:SD	46:MD:268:ILE:HD13	2.44	0.57
46:MF:135:ILE:HG13	46:MF:152:ILE:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NA:60:LYS:NZ	45:NA:61:HIS:O	2.27	0.57
45:NE:140:SER:HA	45:NE:171:ILE:HB	1.84	0.57
46:NN:318:ARG:HD3	46:NN:358:PRO:HD3	1.85	0.57
45:OA:175:PRO:HB2	45:OA:176:GLN:OE1	2.03	0.57
45:OA:208:ALA:HB2	45:OA:304:LYS:HD2	1.85	0.57
45:OA:223:THR:HG22	46:OB:322:SER:HA	1.85	0.57
46:PJ:276:ARG:HA	46:PJ:279:GLN:NE2	2.18	0.57
46:PN:309:ARG:N	46:PN:372:THR:OG1	2.33	0.57
46:PN:319:GLY:HA2	46:PN:357:PRO:HD3	1.85	0.57
45:QC:192:HIS:ND1	45:QC:424:ASP:OD2	2.32	0.57
46:QH:99:ASN:HA	46:QH:142:GLY:H	1.69	0.57
45:RE:346:TRP:CD1	46:RF:391:ARG:HG3	2.39	0.57
45:RG:12:GLY:HA2	45:RG:15:GLN:HE21	1.69	0.57
45:RM:27:GLU:HB3	45:RM:361:THR:HG21	1.86	0.57
45:RM:187:SER:O	45:RM:191:THR:HG23	2.04	0.57
46:SH:222:TYR:O	46:SH:226:ASN:ND2	2.29	0.57
46:TB:212:PHE:CE1	46:TB:220:PRO:HG2	2.39	0.57
46:TH:240:LEU:HD21	46:TH:249:ASP:HA	1.86	0.57
45:TI:188:ILE:HD12	45:TI:425:LEU:HD11	1.85	0.57
45:TK:141:VAL:HG11	45:TK:172:TYR:CD1	2.39	0.57
45:VE:76:ASP:OD2	46:VF:46:ARG:NH2	2.37	0.57
45:VM:284:GLU:HG3	45:VM:286:LEU:HD22	1.86	0.57
46:VN:236:VAL:HG13	46:VN:237:THR:HG23	1.86	0.57
46:WL:282:ARG:HE	46:WL:288:GLU:HG3	1.68	0.57
46:WN:207:LEU:HB3	46:WN:225:LEU:HD22	1.85	0.57
23:1O:210:ILE:HG21	45:UC:281:ALA:HB3	1.85	0.57
36:5C:77:SER:O	46:NJ:320:ARG:NH2	2.37	0.57
34:7R:357:LYS:NZ	34:7R:368:GLN:O	2.36	0.57
45:AC:108:TYR:HA	45:AC:112:LYS:HE3	1.86	0.57
46:BD:173:PRO:HD2	46:BD:174:LYS:NZ	2.19	0.57
45:BE:31:GLN:OE1	45:BE:32:PRO:HD2	2.04	0.57
45:BG:331:SER:O	45:BG:335:ILE:HG12	2.04	0.57
46:BH:222:TYR:O	46:BH:226:ASN:ND2	2.24	0.57
45:CA:325:PRO:HG2	46:CB:222:TYR:HE2	1.69	0.57
46:CF:326:VAL:O	46:CF:330:MET:HG2	2.04	0.57
46:CJ:232:ALA:HB1	46:CJ:268:ILE:HD12	1.86	0.57
45:CK:231:ILE:O	45:CK:235:ILE:HG12	2.04	0.57
46:DH:309:ARG:NH2	46:DH:426:GLN:O	2.28	0.57
45:DK:259:LEU:HD13	45:DK:268:MET:HE1	1.85	0.57
46:EF:379:LYS:HD3	46:EF:419:VAL:HG11	1.86	0.57
46:FD:215:LEU:HD21	46:FD:273:LEU:HD12	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FD:276:ARG:HA	46:FD:279:GLN:HG3	1.84	0.57
45:GA:179:THR:HG22	46:GB:350:LYS:NZ	2.19	0.57
46:GD:97:ALA:HB3	46:GD:143:THR:HB	1.85	0.57
45:GI:210:TYR:HB3	46:GJ:324:LYS:NZ	2.19	0.57
46:HD:148:GLY:O	46:HD:152:ILE:HG12	2.04	0.57
45:HM:141:VAL:HG22	45:HM:187:SER:HA	1.85	0.57
46:ID:317:PHE:HD1	46:ID:365:VAL:HG22	1.69	0.57
46:IH:139:LEU:HD13	46:IH:168:SER:HB3	1.85	0.57
45:II:241:SER:HA	45:II:356:ASN:HD21	1.69	0.57
45:IM:226:ASN:ND2	45:IM:367:ASP:OD2	2.36	0.57
45:JK:251:ASP:OD1	45:JK:252:ILE:N	2.35	0.57
46:JL:70:PRO:O	46:JL:74:ASP:HB2	2.05	0.57
46:KF:130:LEU:HD22	46:KF:162:ARG:HG2	1.85	0.57
45:KK:147:SER:HB2	45:KK:190:SER:HB3	1.85	0.57
45:KM:318:MET:HB2	45:KM:376:CYS:SG	2.44	0.57
45:NC:399:TYR:O	45:NC:402:ARG:NH1	2.36	0.57
46:NF:179:VAL:HG13	46:NF:180:VAL:HG13	1.86	0.57
45:NG:279:GLU:HG3	45:NG:280:LYS:H	1.69	0.57
46:NL:318:ARG:HD3	46:NL:358:PRO:HG3	1.86	0.57
46:NN:329:GLN:HA	46:NN:332:ASN:ND2	2.19	0.57
46:OD:140:GLY:HA2	46:OD:181:GLU:OE2	2.04	0.57
45:OE:221:ARG:NH2	46:OF:322:SER:H	2.02	0.57
45:OM:9:VAL:HG23	45:OM:139:ASN:HD22	1.69	0.57
45:PC:178:SER:OG	46:PD:347:ASN:OD1	2.17	0.57
46:PD:268:ILE:HG13	46:PD:300:MET:HG3	1.86	0.57
45:PI:127:ASP:OD1	45:QI:293:ASN:ND2	2.36	0.57
46:PN:344:TRP:HB3	46:PN:430:ALA:HB2	1.85	0.57
45:QA:199:ASP:OD1	45:QA:200:VAL:N	2.37	0.57
45:QG:429:GLU:O	45:QG:433:GLU:HG2	2.03	0.57
45:QK:269:LEU:HD12	45:QK:303:ALA:HB3	1.86	0.57
46:QL:6:HIS:HD1	46:QL:21:TRP:HE1	1.52	0.57
45:QM:79:ARG:HA	45:QM:87:PHE:HZ	1.69	0.57
45:RG:430:LYS:NZ	45:RG:434:GLU:OE2	2.36	0.57
45:RI:68:LEU:HD23	45:RI:93:ILE:HB	1.85	0.57
46:RJ:183:TYR:HA	46:RJ:385:PHE:HE1	1.69	0.57
45:SA:206:ASN:OD1	47:SA:501:GTP:N2	2.38	0.57
45:SE:75:ILE:HD13	45:SE:94:SER:HB2	1.84	0.57
45:SE:171:ILE:HG13	45:SE:204:LEU:HB2	1.86	0.57
45:SE:402:ARG:HH22	45:SE:406:HIS:HB3	1.70	0.57
45:SG:329:ASN:HA	45:SG:332:ILE:HG12	1.84	0.57
46:TB:221:THR:HG23	46:TB:224:ASP:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TH:26:ASP:O	46:TH:359:LYS:NZ	2.25	0.57
46:TL:324:LYS:HB2	45:TM:221:ARG:HH12	1.68	0.57
45:TM:213:CYS:HA	45:TM:217:LEU:HD13	1.85	0.57
46:UF:331:LEU:HD11	45:UG:177:VAL:HG22	1.86	0.57
45:UG:26:LEU:HD21	45:UG:363:VAL:HG12	1.86	0.57
46:UL:128:ASP:OD1	46:UL:129:CYS:N	2.37	0.57
46:VH:344:TRP:HB3	46:VH:430:ALA:HB2	1.85	0.57
45:VI:89:PRO:HD2	45:WI:280:LYS:HZ3	1.69	0.57
45:VK:352:LYS:NZ	46:VN:178:THR:HG23	2.20	0.57
46:VL:389:PHE:HZ	46:VL:405:GLU:HG2	1.68	0.57
46:VN:410:GLU:O	46:VN:414:ASN:ND2	2.37	0.57
45:WC:212:ILE:HD13	45:WC:215:ARG:HH12	1.69	0.57
46:WJ:153:SER:HB3	46:WJ:154:LYS:HZ2	1.70	0.57
46:WN:293:MET:HG2	46:WN:365:VAL:HG11	1.86	0.57
18:II:222:GLU:HG2	15:4X:141:PHE:CE1	2.38	0.57
21:2L:899:LEU:O	46:CJ:320:ARG:NH2	2.36	0.57
37:5F:129:ARG:HE	37:5F:130:PRO:HD2	1.70	0.57
37:5F:157:ARG:NH2	46:NH:36:TYR:O	2.37	0.57
34:5R:492:ILE:HD11	34:5R:507:ARG:HA	1.86	0.57
34:7R:491:GLN:NE2	34:7R:583:GLN:OE1	2.32	0.57
46:AB:222:TYR:O	46:AB:226:ASN:ND2	2.28	0.57
45:AM:207:GLU:HB2	45:AM:304:LYS:HG3	1.86	0.57
45:BC:11:GLN:HE21	45:BC:15:GLN:HE22	1.53	0.57
46:CB:5:VAL:HG12	46:CB:62:ARG:HD3	1.86	0.57
46:CD:293:MET:HG2	46:CD:365:VAL:HG11	1.86	0.57
46:CD:309:ARG:NH1	46:CD:339:SER:O	2.37	0.57
46:CF:257:LEU:HD11	46:CF:314:SER:HB2	1.87	0.57
45:CG:133:GLN:HB3	45:CG:252:ILE:HG21	1.85	0.57
46:DB:88:ASP:OD2	46:DB:89:ASN:N	2.38	0.57
46:EN:86:ARG:HD2	46:EN:87:PRO:HD2	1.86	0.57
46:FL:266:PHE:HE1	46:FL:370:ASN:ND2	2.02	0.57
45:FM:275:ILE:HA	45:FM:368:LEU:HD11	1.87	0.57
45:GC:117:LEU:O	45:GC:121:ARG:HG2	2.05	0.57
45:GG:64:ARG:NH1	45:GG:129:CYS:SG	2.77	0.57
45:GG:288:VAL:HA	45:GG:291:ILE:HG12	1.85	0.57
45:HA:101:ASN:HA	45:HA:144:GLY:H	1.69	0.57
45:HE:70:LEU:HD13	45:HE:95:GLY:HA3	1.86	0.57
46:HF:133:PHE:HB2	46:HF:164:MET:SD	2.44	0.57
46:HF:205:GLU:OE2	46:HF:302:ALA:HB2	2.04	0.57
46:HN:8:GLN:HE21	46:HN:65:LEU:HG	1.70	0.57
45:IC:332:ILE:HD11	45:IC:351:PHE:CG	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JA:244:PHE:HB2	45:JA:356:ASN:HD21	1.68	0.57
46:JF:187:LEU:HD21	46:JF:408:PHE:HE2	1.69	0.57
45:KA:271:SER:HB2	45:KA:301:MET:SD	2.44	0.57
46:KD:31:ASP:HB3	46:KD:37:HIS:CD2	2.39	0.57
46:KD:286:VAL:HG21	46:KD:325:GLU:HG3	1.86	0.57
45:KG:206:ASN:OD1	47:KG:501:GTP:N2	2.37	0.57
46:LH:334:GLN:NE2	46:LH:348:ASN:OD1	2.37	0.57
45:MA:6:SER:OG	45:MA:8:HIS:NE2	2.34	0.57
45:MC:395:PHE:CD2	45:MC:422:ARG:HD3	2.39	0.57
45:MM:231:ILE:O	45:MM:235:ILE:HD12	2.03	0.57
46:NB:15:GLN:NE2	49:NB:501:GDP:O6	2.37	0.57
45:NE:322:ASP:OD1	45:NE:373:ARG:NH1	2.37	0.57
46:NH:324:LYS:HG3	46:NH:325:GLU:N	2.19	0.57
46:NL:3:GLU:CD	46:NL:3:GLU:H	2.07	0.57
46:OB:256:ASN:ND2	46:OB:350:LYS:HB2	2.18	0.57
45:OC:60:LYS:NZ	45:OC:61:HIS:O	2.37	0.57
46:QB:226:ASN:HD21	49:QB:501:GDP:HN1	1.53	0.57
46:QD:5:VAL:HG12	46:QD:62:ARG:HD3	1.86	0.57
46:QD:344:TRP:HB3	46:QD:430:ALA:HB2	1.86	0.57
45:QE:268:MET:HG3	45:QE:380:ASN:HB3	1.85	0.57
45:QE:329:ASN:HA	45:QE:332:ILE:HG12	1.85	0.57
46:QH:181:GLU:HB3	46:QH:182:PRO:HD3	1.84	0.57
46:RD:167:PHE:CE2	46:RD:233:MET:HB2	2.37	0.57
45:SE:271:SER:HA	45:SE:302:MET:HG3	1.86	0.57
45:SI:242:LEU:HD11	45:SI:252:ILE:HG12	1.86	0.57
46:SN:67:ASP:O	46:SN:92:PHE:HA	2.05	0.57
46:TD:209:ASP:OD1	46:TD:213:ARG:NE	2.32	0.57
46:TF:22:GLU:HG2	46:TF:81:PHE:CD2	2.40	0.57
46:TF:151:LEU:HA	46:TF:154:LYS:HZ3	1.69	0.57
46:TF:318:ARG:HD3	46:TF:358:PRO:HD3	1.87	0.57
45:TG:171:ILE:HG13	45:TG:204:LEU:HB2	1.85	0.57
46:UH:12:CYS:O	46:UH:16:ILE:HD12	2.05	0.57
46:UN:48:ASN:O	46:UN:62:ARG:NH2	2.38	0.57
45:VC:284:GLU:HG2	45:VC:286:LEU:HD22	1.86	0.57
46:VD:183:TYR:HE2	46:VD:394:PHE:HB2	1.69	0.57
45:WC:70:LEU:O	46:WD:2:ARG:NH2	2.37	0.57
46:WL:164:MET:HB3	46:WL:197:ASP:H	1.67	0.57
46:WL:285:THR:HG23	46:WL:287:PRO:HD2	1.85	0.57
45:DC:294:SER:HA	45:DC:297:GLU:OE1	2.04	0.57
18:1I:167:ARG:HH22	45:KE:357:TYR:HB3	1.69	0.57
21:1L:425:SER:OG	45:CG:279:GLU:OE1	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:1W:69:ASN:HB3	15:4X:140:PRO:HG3	1.84	0.57
31:2I:134:LYS:NZ	46:GD:328:GLU:HG3	2.17	0.57
39:6F:62:GLN:N	45:IE:84:ARG:HH22	2.03	0.57
45:AA:340:THR:HG23	45:AA:341:ILE:HG13	1.86	0.57
46:AL:204:ASN:O	46:AL:208:TYR:HD2	1.87	0.57
46:AN:5:VAL:HG12	46:AN:62:ARG:HD3	1.86	0.57
45:BA:387:VAL:O	45:BA:390:ARG:HG2	2.04	0.57
46:BL:209:ASP:OD1	46:BL:213:ARG:NH1	2.38	0.57
46:CF:318:ARG:HB3	46:CF:357:PRO:HA	1.85	0.57
46:DJ:317:PHE:HE2	46:DJ:326:VAL:HG13	1.68	0.57
46:DL:331:LEU:HD22	45:DM:177:VAL:HG22	1.86	0.57
45:EC:40:LYS:NZ	45:EC:43:GLY:H	2.02	0.57
45:EC:88:HIS:NE2	45:FA:284:GLU:OE1	2.35	0.57
45:EG:292:THR:HG21	45:EG:331:SER:HB2	1.85	0.57
45:EI:338:LYS:HZ2	45:EI:339:ARG:H	1.52	0.57
46:EJ:148:GLY:O	46:EJ:152:ILE:HG12	2.05	0.57
46:GF:325:GLU:HA	46:GF:328:GLU:HG3	1.86	0.57
46:GN:236:VAL:HG23	46:GN:237:THR:HG23	1.85	0.57
46:HB:67:ASP:O	46:HB:92:PHE:HA	2.04	0.57
46:HD:3:GLU:HG2	46:HD:49:VAL:HA	1.84	0.57
46:HH:99:ASN:HA	46:HH:142:GLY:H	1.69	0.57
45:IA:226:ASN:ND2	45:IA:367:ASP:OD2	2.37	0.57
46:IB:167:PHE:CZ	46:IB:233:MET:HG3	2.39	0.57
45:IC:69:ASP:OD1	45:IC:70:LEU:N	2.37	0.57
46:IL:204:ASN:HA	46:IL:207:LEU:HD12	1.86	0.57
45:IM:127:ASP:OD1	45:IM:128:ASN:N	2.38	0.57
45:IM:284:GLU:HG3	45:IM:286:LEU:HD22	1.87	0.57
45:JE:287:SER:N	45:JE:290:GLU:OE1	2.33	0.57
46:JH:187:LEU:HD21	46:JH:408:PHE:HE1	1.68	0.57
45:KI:109:THR:O	45:KI:112:LYS:NZ	2.37	0.57
45:LE:227:LEU:O	45:LE:231:ILE:HG12	2.04	0.57
45:MG:385:ALA:HB2	45:MG:432:TYR:HD1	1.69	0.57
46:MH:106:TYR:HE2	46:MH:403:MET:HB3	1.69	0.57
46:MH:375:GLN:HG3	46:MH:419:VAL:HG13	1.86	0.57
45:MI:109:THR:O	45:MI:112:LYS:NZ	2.38	0.57
45:MI:282:TYR:HE1	45:MI:371:VAL:HG22	1.69	0.57
45:MI:326:LYS:HD2	46:ML:220:PRO:HD2	1.87	0.57
46:NB:105:HIS:CE1	46:NB:150:LEU:HD12	2.40	0.57
46:NB:209:ASP:O	46:NB:213:ARG:HG2	2.04	0.57
46:ND:116:VAL:HA	46:ND:119:VAL:HG12	1.87	0.57
45:NE:276:ILE:HG13	45:NE:283:HIS:HE1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NF:103:LYS:NZ	46:NF:401:GLU:OE2	2.35	0.57
46:OB:97:ALA:HA	46:OB:103:LYS:HD2	1.85	0.57
46:OD:405:GLU:HA	46:OD:408:PHE:HD2	1.69	0.57
45:OK:50:ASN:O	45:OK:64:ARG:NH1	2.38	0.57
45:OK:101:ASN:HA	45:OK:144:GLY:H	1.68	0.57
45:OK:141:VAL:HG11	45:OK:172:TYR:CD1	2.39	0.57
46:OL:113:ILE:HG21	46:OL:150:LEU:HD22	1.86	0.57
46:OL:318:ARG:HG2	46:OL:358:PRO:HD3	1.86	0.57
46:PF:326:VAL:O	46:PF:330:MET:HG2	2.04	0.57
45:PG:324:VAL:HG12	45:PG:326:LYS:HG2	1.86	0.57
45:QE:242:LEU:HD11	45:QE:252:ILE:HG12	1.87	0.57
46:QF:83:GLN:O	46:RF:281:TYR:OH	2.23	0.57
46:QL:74:ASP:OD1	46:QL:77:ARG:NH2	2.34	0.57
46:RF:63:ALA:O	46:RF:89:ASN:ND2	2.36	0.57
45:RG:296:PHE:HE1	45:RG:377:MET:HG3	1.68	0.57
46:RH:153:SER:HA	46:RH:195:ASN:ND2	2.19	0.57
46:SB:28:HIS:CE1	46:SB:241:ARG:HH21	2.21	0.57
46:SB:350:LYS:HA	45:SC:179:THR:O	2.03	0.57
46:SD:6:HIS:HE1	46:SD:8:GLN:NE2	2.03	0.57
46:SD:313:ALA:HB1	46:SD:367:PHE:HE1	1.69	0.57
45:SG:332:ILE:HA	45:SG:335:ILE:HG12	1.86	0.57
45:SK:169:PHE:HB3	45:SK:204:LEU:HD11	1.85	0.57
46:SL:350:LYS:HZ1	45:SM:181:VAL:N	2.02	0.57
45:TE:257:THR:HG21	46:TF:100:ASN:HD21	1.69	0.57
46:TL:325:GLU:H	45:TM:221:ARG:HH22	1.49	0.57
46:UB:375:GLN:HE22	46:UB:419:VAL:HA	1.69	0.57
46:UJ:167:PHE:HA	46:UJ:200:MET:HB2	1.86	0.57
46:VD:237:THR:HG23	46:VD:241:ARG:HE	1.69	0.57
45:VE:11:GLN:NE2	47:VE:501:GTP:O3A	2.36	0.57
46:VF:200:MET:HG3	46:VF:266:PHE:HB2	1.86	0.57
46:VF:290:THR:HA	46:VF:293:MET:HG3	1.84	0.57
46:VH:254:ALA:O	46:VH:258:ILE:HG22	2.04	0.57
45:VI:88:HIS:CE1	45:WI:280:LYS:HE2	2.40	0.57
46:WB:105:HIS:CD2	46:WB:150:LEU:HD23	2.39	0.57
46:WD:294:PHE:CD2	46:WD:333:VAL:HG11	2.40	0.57
45:WK:286:LEU:O	45:WK:373:ARG:NH2	2.38	0.57
45:CE:345:ASP:OD1	45:CE:346:TRP:N	2.37	0.57
9:0N:15:ARG:NH1	46:IN:45:GLU:OE2	2.36	0.57
9:1N:249:LEU:HD23	46:KJ:74:ASP:HA	1.87	0.57
12:1T:229:THR:OG1	45:MC:431:ASP:OD2	2.22	0.57
31:2I:139:ARG:CZ	46:GD:340:TYR:HB2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:2O:423:HIS:NE2	45:VA:370:LYS:O	2.31	0.57
10:4Q:113:ARG:NH2	45:AI:196:GLU:OE1	2.36	0.57
36:5A:30:LYS:H	36:5A:36:ARG:HH21	1.52	0.57
36:5B:45:TYR:CZ	36:5B:56:ILE:HG13	2.40	0.57
34:5R:101:GLU:OE1	46:BL:280:GLN:NE2	2.38	0.57
34:5R:319:PRO:HG3	46:CJ:228:LEU:HD22	1.87	0.57
46:AL:232:ALA:HB1	46:AL:268:ILE:HD12	1.86	0.57
45:BA:331:SER:O	45:BA:335:ILE:HG12	2.04	0.57
46:BD:68:LEU:HB3	46:BD:96:GLY:HA2	1.85	0.57
46:BH:87:PRO:HA	46:BH:90:PHE:HD2	1.70	0.57
45:CG:296:PHE:CE2	45:CG:335:ILE:HD13	2.40	0.57
45:CG:342:GLN:HA	45:CG:342:GLN:HE21	1.69	0.57
46:CJ:245:GLN:O	45:CK:11:GLN:NE2	2.36	0.57
46:DJ:187:LEU:HD21	46:DJ:408:PHE:HE2	1.70	0.57
46:DJ:258:ILE:HG13	45:DK:407:TRP:HE1	1.69	0.57
45:DK:265:ILE:HD11	45:DK:435:VAL:HG21	1.87	0.57
46:DL:316:LEU:HD13	46:DL:352:SER:HB2	1.85	0.57
46:EB:248:SER:HA	46:EB:252:LYS:HD2	1.86	0.57
45:EC:239:THR:HG23	45:EC:243:ARG:HH21	1.70	0.57
46:ED:321:MET:SD	46:ED:363:MET:HG3	2.44	0.57
45:EG:260:VAL:HG13	46:EH:397:TRP:HZ2	1.70	0.57
46:EJ:328:GLU:OE1	46:EJ:329:GLN:HG2	2.04	0.57
46:EN:139:LEU:HD22	46:EN:170:VAL:HG12	1.86	0.57
45:FE:98:ASP:O	45:FE:105:ARG:NH1	2.37	0.57
46:FF:95:THR:OG1	46:FF:108:GLU:OE2	2.23	0.57
45:GA:172:TYR:CE2	45:GA:203:MET:HG3	2.40	0.57
46:GH:164:MET:HB3	46:GH:197:ASP:H	1.69	0.57
46:HB:164:MET:HB2	46:HB:197:ASP:H	1.68	0.57
45:HE:322:ASP:OD1	45:HE:373:ARG:NH1	2.37	0.57
45:HG:207:GLU:OE1	45:HG:304:LYS:NZ	2.23	0.57
46:HL:260:PHE:HB2	46:HL:263:LEU:HD13	1.86	0.57
45:IC:207:GLU:OE1	45:IC:207:GLU:N	2.38	0.57
45:IG:72:PRO:HD2	46:IH:2:ARG:HH21	1.69	0.57
45:IM:89:PRO:HD3	46:JN:281:TYR:CE2	2.40	0.57
46:JD:249:ASP:OD1	46:JD:250:LEU:N	2.31	0.57
46:KH:67:ASP:OD1	46:KH:68:LEU:N	2.37	0.57
46:KL:268:ILE:HG22	46:KL:368:VAL:HG22	1.87	0.57
45:KM:271:SER:HB3	45:KM:377:MET:HB3	1.87	0.57
45:LA:11:GLN:HG3	45:LA:74:VAL:HG11	1.86	0.57
46:LB:202:ILE:HD11	46:LB:268:ILE:HD11	1.85	0.57
45:LC:399:TYR:O	45:LC:402:ARG:NH1	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LE:210:TYR:HE1	45:LE:227:LEU:HD11	1.70	0.57
46:LH:294:PHE:HE2	46:LH:333:VAL:HG11	1.69	0.57
46:LJ:192:LEU:HD21	46:LJ:199:CYS:SG	2.44	0.57
46:MB:282:ARG:NH2	46:MB:292:GLN:OE1	2.31	0.57
46:MH:54:ALA:HB3	46:MH:58:ARG:HG2	1.86	0.57
46:ML:371:SER:O	46:ML:422:TYR:OH	2.17	0.57
45:NE:19:ALA:O	45:NE:22:GLU:HG2	2.05	0.57
46:NJ:330:MET:HA	46:NJ:333:VAL:HG12	1.87	0.57
45:NM:426:ALA:O	45:NM:430:LYS:HG2	2.05	0.57
45:OG:55:GLU:HG3	45:OG:57:GLY:H	1.68	0.57
45:OM:207:GLU:HA	45:OM:210:TYR:HB2	1.86	0.57
46:PD:68:LEU:HD12	46:PD:93:GLY:HA3	1.87	0.57
47:PI:501:GTP:O1G	46:PJ:252:LYS:NZ	2.38	0.57
46:PN:73:MET:HA	46:PN:76:VAL:HG12	1.86	0.57
45:RA:328:VAL:HG11	45:RA:353:VAL:HG21	1.87	0.57
46:RN:67:ASP:O	46:RN:92:PHE:HA	2.04	0.57
46:SB:91:VAL:HG21	46:SB:116:VAL:HB	1.85	0.57
46:SD:143:THR:O	46:SD:147:MET:HG2	2.05	0.57
46:SD:248:SER:OG	46:SD:350:LYS:NZ	2.22	0.57
45:SG:215:ARG:NH2	45:SG:300:ASN:OD1	2.37	0.57
46:SJ:200:MET:HE1	46:SJ:268:ILE:HG12	1.87	0.57
46:SN:135:ILE:HG13	46:SN:152:ILE:HD11	1.87	0.57
45:TG:287:SER:HA	45:TG:373:ARG:HH22	1.69	0.57
46:TJ:268:ILE:N	46:TJ:299:MET:HE1	2.20	0.57
46:TN:148:GLY:O	46:TN:152:ILE:HG12	2.04	0.57
46:UD:207:LEU:HB3	46:UD:225:LEU:HD22	1.87	0.57
46:VD:67:ASP:O	46:VD:92:PHE:HA	2.04	0.57
45:VI:70:LEU:HD13	45:VI:95:GLY:HA3	1.84	0.57
45:VK:352:LYS:HZ3	46:VN:179:VAL:H	1.52	0.57
45:VM:76:ASP:OD1	45:VM:79:ARG:NH2	2.33	0.57
45:WA:191:THR:O	45:WA:195:LEU:HG	2.05	0.57
46:WD:97:ALA:HB3	46:WD:143:THR:HG22	1.86	0.57
45:WE:211:ASP:O	45:WE:215:ARG:HG3	2.05	0.57
45:WI:51:THR:HG21	45:WI:243:ARG:HB3	1.86	0.57
46:WJ:207:LEU:HB3	46:WJ:225:LEU:HD22	1.86	0.57
46:WN:173:PRO:HD2	46:WN:380:ARG:CZ	2.34	0.57
4:OD:95:GLN:NE2	45:EC:364:PRO:HB2	2.18	0.57
18:II:152:LYS:HZ3	45:KE:364:PRO:HG2	1.67	0.57
19:IJ:171:TYR:CE2	46:HH:53:GLU:HB3	2.40	0.57
34:5R:182:ASP:OD1	34:5R:183:CYS:N	2.37	0.57
35:5S:186:ILE:HG13	35:5S:187:LEU:HD22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:469:LYS:HE2	34:7R:472:GLU:HA	1.87	0.57
46:AD:8:GLN:HE21	46:AD:65:LEU:HD11	1.69	0.57
46:AD:309:ARG:NH2	46:AD:426:GLN:O	2.27	0.57
45:AI:69:ASP:OD1	45:AI:70:LEU:N	2.38	0.57
45:AK:73:THR:HA	46:AL:46:ARG:NH2	2.19	0.57
46:BB:135:ILE:HG13	46:BB:152:ILE:HD11	1.85	0.57
46:BD:207:LEU:HB3	46:BD:225:LEU:HD22	1.87	0.57
45:BM:11:GLN:NE2	46:BN:245:GLN:O	2.37	0.57
45:CG:296:PHE:HE2	45:CG:335:ILE:HG21	1.69	0.57
46:CN:330:MET:SD	46:CN:351:SER:OG	2.61	0.57
46:DJ:187:LEU:HD21	46:DJ:408:PHE:CE2	2.40	0.57
46:FB:242:PHE:HB3	46:FB:356:ILE:HD13	1.87	0.57
46:FF:135:ILE:HG13	46:FF:152:ILE:HD11	1.85	0.57
45:FG:294:SER:HA	45:FG:297:GLU:OE1	2.05	0.57
45:FI:11:GLN:HG3	45:FI:74:VAL:HG11	1.85	0.57
45:GE:188:ILE:HD12	45:GE:425:LEU:HD11	1.85	0.57
46:GH:293:MET:HE2	46:GH:365:VAL:HG11	1.85	0.57
46:HH:167:PHE:HE2	46:HH:233:MET:HG3	1.70	0.57
46:HJ:3:GLU:OE2	46:HJ:127:CYS:HB2	2.05	0.57
46:HL:97:ALA:HA	46:HL:103:LYS:HD2	1.86	0.57
45:HM:135:PHE:HB2	45:HM:166:LYS:HG2	1.87	0.57
46:HN:257:LEU:HD11	46:HN:314:SER:HB3	1.86	0.57
46:IB:164:MET:SD	46:IB:197:ASP:N	2.72	0.57
45:II:209:ILE:HG13	45:II:302:MET:HG2	1.86	0.57
45:JE:127:ASP:OD1	45:JE:128:ASN:N	2.38	0.57
45:JI:89:PRO:HB2	45:KI:280:LYS:HZ3	1.70	0.57
45:JK:287:SER:HA	45:JK:373:ARG:HH21	1.68	0.57
46:KB:334:GLN:HE22	46:KB:348:ASN:H	1.52	0.57
45:KG:326:LYS:NZ	46:KJ:208:TYR:HB3	2.20	0.57
45:LG:285:GLN:NE2	45:LG:290:GLU:OE2	2.37	0.57
45:LM:361:THR:O	45:LM:370:LYS:NZ	2.38	0.57
46:MB:221:THR:HG23	46:MB:224:ASP:H	1.69	0.57
45:MC:264:ARG:NH1	45:MC:424:ASP:OD2	2.37	0.57
46:MD:207:LEU:HB3	46:MD:225:LEU:HD22	1.86	0.57
45:MG:322:ASP:OD1	45:MG:373:ARG:NH1	2.38	0.57
46:MJ:200:MET:HE3	46:MJ:268:ILE:HD13	1.85	0.57
46:MJ:371:SER:O	46:MJ:422:TYR:OH	2.18	0.57
46:NB:222:TYR:O	46:NB:226:ASN:ND2	2.37	0.57
46:ND:8:GLN:HE21	46:ND:65:LEU:HG	1.68	0.57
46:NH:326:VAL:O	46:NH:330:MET:HG2	2.03	0.57
45:NM:259:LEU:HD13	45:NM:268:MET:HE2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:292:THR:HG21	45:PA:331:SER:HB3	1.85	0.57
45:PE:350:GLY:HA2	46:PH:179:VAL:HG12	1.86	0.57
45:PM:222:PRO:HG2	46:PN:324:LYS:HE2	1.85	0.57
45:QA:1:MET:SD	46:QB:94:GLN:NE2	2.78	0.57
45:QA:19:ALA:O	45:QA:229:ARG:NH2	2.38	0.57
45:QI:11:GLN:OE1	47:QI:501:GTP:N7	2.37	0.57
45:QK:199:ASP:HB3	45:QK:256:GLN:HG3	1.87	0.57
45:RC:15:GLN:NE2	47:RC:501:GTP:O6	2.37	0.57
46:RL:6:HIS:O	46:RL:63:ALA:HA	2.04	0.57
45:RM:319:TYR:HB3	45:RM:323:VAL:HG11	1.86	0.57
46:SB:1:MET:SD	46:SB:2:ARG:HG2	2.45	0.57
46:SB:116:VAL:HA	46:SB:119:VAL:HG12	1.87	0.57
46:SB:334:GLN:HA	46:SB:341:PHE:CE2	2.37	0.57
45:SG:252:ILE:HA	45:SG:255:PHE:CE2	2.39	0.57
45:SI:254:GLU:HG2	46:SJ:98:GLY:HA2	1.85	0.57
46:TB:135:ILE:HB	46:TB:166:THR:HG22	1.85	0.57
46:TD:21:TRP:HA	46:TD:24:ILE:HG22	1.87	0.57
46:TD:385:PHE:HZ	46:TD:408:PHE:CD2	2.16	0.57
45:UC:196:GLU:OE2	45:UC:197:HIS:NE2	2.38	0.57
45:UI:101:ASN:HA	45:UI:144:GLY:H	1.69	0.57
46:UJ:190:HIS:CD2	46:UJ:411:ALA:HA	2.39	0.57
46:UN:377:MET:HG3	46:UN:380:ARG:HH21	1.69	0.57
45:VC:111:GLY:O	45:VC:115:VAL:HG13	2.05	0.57
45:VC:288:VAL:HG21	45:VC:327:ASP:HB3	1.86	0.57
45:WA:50:ASN:O	45:WA:64:ARG:NH1	2.38	0.57
46:WD:5:VAL:HG12	46:WD:62:ARG:HD3	1.86	0.57
46:WN:420:SER:O	46:WN:424:GLN:HG2	2.05	0.57
4:0D:171:LEU:HD23	45:EC:79:ARG:NH2	2.20	0.57
12:2T:97:ARG:HH22	45:MG:416:GLY:HA3	1.69	0.57
35:4S:211:ASN:HB3	35:4S:217:LEU:HD11	1.87	0.57
36:5B:71:SER:O	46:NF:359:LYS:NZ	2.27	0.57
37:5H:56:VAL:HA	46:ON:276:ARG:HH11	1.69	0.57
37:5H:91:ASN:OD1	37:5H:92:GLN:N	2.37	0.57
45:AC:217:LEU:HB3	45:AC:219:ILE:HG12	1.86	0.57
46:AD:132:GLY:HA2	46:AD:162:ARG:HG3	1.87	0.57
46:AL:67:ASP:O	46:AL:92:PHE:HA	2.04	0.57
46:BF:20:PHE:O	46:BF:24:ILE:HG12	2.05	0.57
45:BK:352:LYS:HZ1	46:BN:179:VAL:H	1.52	0.57
45:BM:132:LEU:HD22	45:BM:164:LYS:HZ3	1.70	0.57
46:BN:293:MET:SD	46:BN:365:VAL:HG11	2.44	0.57
46:BN:309:ARG:NH2	46:BN:426:GLN:O	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:67:ASP:O	46:CN:92:PHE:HA	2.03	0.57
46:DH:257:LEU:HB3	46:DH:266:PHE:HZ	1.70	0.57
45:DI:326:LYS:HE2	46:DJ:220:PRO:HD2	1.85	0.57
46:DL:222:TYR:O	46:DL:226:ASN:ND2	2.24	0.57
46:DN:208:TYR:HE2	46:DN:225:LEU:HD11	1.69	0.57
46:EF:324:LYS:CE	45:EG:222:PRO:HD2	2.34	0.57
45:EI:318:MET:HB2	45:EI:376:CYS:SG	2.44	0.57
46:GN:289:LEU:HD11	46:GN:363:MET:HG3	1.85	0.57
46:HN:260:PHE:HB2	46:HN:263:LEU:HD13	1.85	0.57
45:IM:128:ASN:OD1	45:IM:129:CYS:N	2.37	0.57
46:IN:18:ALA:O	46:IN:22:GLU:HG3	2.05	0.57
46:JJ:399:THR:HA	46:JJ:403:MET:HB2	1.86	0.57
45:KG:70:LEU:HB2	45:KG:98:ASP:HA	1.86	0.57
45:KK:288:VAL:HA	45:KK:291:ILE:HG12	1.87	0.57
46:KL:318:ARG:HH21	46:KL:358:PRO:HG3	1.70	0.57
45:KM:75:ILE:HD13	45:KM:94:SER:HB3	1.85	0.57
45:LE:31:GLN:NE2	45:LE:35:GLN:O	2.38	0.57
46:LH:101:TRP:HE1	46:LH:188:SER:HG	1.48	0.57
46:LJ:344:TRP:CE3	46:LJ:345:ILE:HG23	2.39	0.57
45:LM:264:ARG:NH2	45:LM:431:ASP:OD2	2.30	0.57
45:ME:324:VAL:HG11	45:ME:326:LYS:HE3	1.86	0.57
46:MF:67:ASP:OD1	46:MF:68:LEU:N	2.36	0.57
46:ML:282:ARG:NH2	46:ML:292:GLN:OE1	2.38	0.57
46:ND:64:ILE:HD13	46:ND:119:VAL:HG13	1.87	0.57
46:NF:154:LYS:O	46:NF:157:GLU:HG3	2.04	0.57
45:NG:258:ASN:HB3	45:NG:352:LYS:HZ2	1.70	0.57
46:NH:25:SER:OG	46:NH:30:ILE:O	2.22	0.57
45:NK:329:ASN:ND2	46:NN:175:VAL:HG12	2.20	0.57
46:NN:372:THR:HA	46:NN:422:TYR:HE1	1.69	0.57
45:OC:70:LEU:HD13	45:OC:95:GLY:HA3	1.85	0.57
46:OF:109:GLY:O	46:OF:113:ILE:HG23	2.05	0.57
45:OI:297:GLU:OE2	45:OI:298:PRO:HD2	2.03	0.57
45:PA:221:ARG:NH1	46:PB:325:GLU:HB3	2.19	0.57
45:PA:319:TYR:HB3	45:PA:323:VAL:HG21	1.86	0.57
46:PH:173:PRO:HA	46:PH:176:SER:HB3	1.85	0.57
46:PJ:289:LEU:HD11	46:PJ:363:MET:HG3	1.86	0.57
46:PJ:294:PHE:HE2	46:PJ:333:VAL:HG11	1.69	0.57
45:PK:259:LEU:O	45:PK:380:ASN:ND2	2.37	0.57
46:QB:134:GLN:HE22	46:QB:136:THR:HG22	1.69	0.57
46:QD:51:TYR:HB3	46:QD:59:TYR:HB3	1.85	0.57
46:QJ:47:ILE:HD12	46:QJ:59:TYR:HE2	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:352:LYS:HE3	46:QL:179:VAL:HG13	1.87	0.57
46:RB:280:GLN:HG2	46:RB:281:TYR:HD1	1.69	0.57
46:RB:423:GLN:NE2	46:RB:427:ASP:OD2	2.37	0.57
45:RG:269:LEU:HG	45:RG:301:MET:HE2	1.86	0.57
45:RI:212:ILE:HD11	45:RI:300:ASN:HA	1.85	0.57
46:RJ:2:ARG:H	46:RJ:129:CYS:HG	1.53	0.57
45:RK:119:LEU:HA	45:RK:122:ILE:HG22	1.87	0.57
46:SD:192:LEU:HD21	46:SD:199:CYS:SG	2.44	0.57
46:SL:350:LYS:HZ1	45:SM:181:VAL:H	1.52	0.57
45:TA:108:TYR:HA	45:TA:112:LYS:HE3	1.87	0.57
45:TE:141:VAL:HG11	45:TE:172:TYR:CD1	2.40	0.57
46:UB:91:VAL:HG21	46:UB:116:VAL:HG12	1.87	0.57
46:VB:189:VAL:HA	46:VB:192:LEU:HB2	1.86	0.57
45:VC:399:TYR:O	45:VC:402:ARG:NH1	2.37	0.57
46:VN:65:LEU:HB3	46:VN:73:MET:HE2	1.86	0.57
45:WA:221:ARG:NH1	46:WB:324:LYS:HE3	2.20	0.57
45:WE:51:THR:HG21	45:WE:243:ARG:HB3	1.86	0.57
45:WG:254:GLU:OE1	46:WJ:99:ASN:ND2	2.37	0.57
46:WH:221:THR:HG23	46:WH:224:ASP:H	1.70	0.57
1:0A:52:THR:HG21	34:7R:71:LYS:HB2	1.87	0.57
2:0B:236:ILE:O	46:JL:276:ARG:NH2	2.28	0.57
4:0D:212:ASN:HB3	34:7R:433:GLN:HE22	1.67	0.57
20:1K:158:THR:HG22	45:GC:370:LYS:NZ	2.20	0.57
25:1R:236:MET:HE2	46:BF:92:PHE:HE2	1.68	0.57
15:4X:122:LEU:HB3	15:4X:126:ARG:HH12	1.69	0.57
36:5B:43:CYS:SG	46:KF:391:ARG:NE	2.78	0.57
36:5D:82:ASP:OD2	46:NN:320:ARG:NH1	2.38	0.57
37:5E:132:THR:OG1	46:OD:276:ARG:NH1	2.38	0.57
35:5S:75:PRO:HB3	35:5S:91:LEU:HD12	1.86	0.57
39:6F:127:TRP:O	46:IH:359:LYS:HE2	2.05	0.57
34:7R:564:ILE:HD11	34:7R:600:LEU:HD13	1.87	0.57
45:AA:176:GLN:NE2	45:AA:207:GLU:OE2	2.38	0.57
46:BH:238:CYS:SG	46:BH:239:CYS:N	2.78	0.57
45:BM:223:THR:HG23	45:BM:225:THR:H	1.69	0.57
46:BN:173:PRO:HD2	46:BN:380:ARG:NH2	2.19	0.57
46:CB:322:SER:OG	45:CC:221:ARG:NH1	2.37	0.57
46:CH:16:ILE:HD12	46:CH:229:VAL:HG11	1.86	0.57
45:DG:184:PRO:O	45:DG:188:ILE:HG12	2.05	0.57
45:EC:101:ASN:HA	45:EC:144:GLY:H	1.70	0.57
45:EC:326:LYS:HG2	46:ED:212:PHE:HE2	1.66	0.57
46:FB:309:ARG:NH1	46:FB:342:VAL:HA	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FI:3:GLU:OE2	45:FI:64:ARG:NH1	2.38	0.57
46:FN:55:THR:HG23	46:GN:283:ALA:HA	1.87	0.57
45:GA:121:ARG:HA	45:GA:124:LYS:NZ	2.20	0.57
45:GK:371:VAL:HG12	45:GK:373:ARG:H	1.69	0.57
46:HD:67:ASP:O	46:HD:92:PHE:HA	2.05	0.57
46:HH:100:ASN:ND2	46:HH:401:GLU:OE1	2.37	0.57
46:HN:100:ASN:ND2	46:HN:401:GLU:OE1	2.37	0.57
46:IN:139:LEU:HD13	46:IN:168:SER:HB3	1.87	0.57
46:JL:267:MET:HE1	46:JL:305:PRO:HG3	1.87	0.57
46:KH:213:ARG:HD2	46:KH:297:LYS:HD3	1.86	0.57
46:MD:274:THR:HB	46:MD:282:ARG:HH11	1.69	0.57
45:ME:221:ARG:NH1	46:MF:325:GLU:OE2	2.38	0.57
46:MJ:101:TRP:HB2	46:MJ:184:ASN:OD1	2.04	0.57
46:ML:222:TYR:O	46:ML:226:ASN:ND2	2.29	0.57
45:MM:27:GLU:OE1	45:MM:243:ARG:NH1	2.33	0.57
46:NF:7:ILE:HG23	46:NF:135:ILE:HG12	1.87	0.57
46:OB:10:GLY:O	46:OB:14:ASN:ND2	2.38	0.57
45:OE:398:MET:HE1	46:OF:345:ILE:HA	1.85	0.57
45:PM:23:LEU:HD21	45:PM:233:GLN:OE1	2.05	0.57
45:PM:135:PHE:HB2	45:PM:166:LYS:HG2	1.87	0.57
45:QC:60:LYS:NZ	45:QC:61:HIS:O	2.37	0.57
45:QC:296:PHE:CE2	45:QC:335:ILE:HD13	2.40	0.57
45:QI:248:LEU:HB2	45:QI:355:ILE:HG22	1.86	0.57
46:QL:150:LEU:O	46:QL:154:LYS:HG2	2.05	0.57
46:QL:190:HIS:CE1	46:QL:414:ASN:HD22	2.23	0.57
45:QM:135:PHE:HB2	45:QM:166:LYS:HG2	1.86	0.57
45:RG:259:LEU:HD11	45:RG:316:SER:HB2	1.87	0.57
46:RN:309:ARG:NH2	46:RN:426:GLN:O	2.35	0.57
45:SC:75:ILE:HD13	45:SC:94:SER:HB2	1.86	0.57
46:SD:222:TYR:O	46:SD:226:ASN:ND2	2.28	0.57
46:SD:247:ASN:OD1	45:SE:11:GLN:NE2	2.38	0.57
45:SK:174:SER:HB2	45:SK:177:VAL:HB	1.86	0.57
46:SL:86:ARG:HH22	46:TL:282:ARG:HA	1.68	0.57
46:SL:257:LEU:HB3	46:SL:266:PHE:HE1	1.69	0.57
45:TC:99:ALA:C	45:TC:105:ARG:HH21	2.07	0.57
45:TC:108:TYR:HA	45:TC:112:LYS:HE3	1.86	0.57
45:TI:115:VAL:HG11	45:TI:152:LEU:HD23	1.87	0.57
46:UB:213:ARG:HB2	46:UB:297:LYS:NZ	2.20	0.57
46:UJ:67:ASP:O	46:UJ:92:PHE:HA	2.04	0.57
46:UJ:248:SER:HA	46:UJ:252:LYS:HD2	1.86	0.57
45:WA:75:ILE:HD12	45:WA:92:LEU:HD12	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WE:127:ASP:OD1	45:WE:128:ASN:N	2.38	0.57
45:WE:214:ARG:HE	45:WE:220:GLU:HA	1.70	0.57
45:WE:287:SER:O	45:WE:291:ILE:HG12	2.04	0.57
45:WM:328:VAL:HG11	45:WM:353:VAL:HG21	1.87	0.57
4:0D:99:ARG:NH2	45:EC:365:GLY:H	2.03	0.57
9:0N:265:ASN:HB2	45:KK:42:ILE:HD13	1.86	0.57
21:2L:407:VAL:HG12	46:CN:320:ARG:HD2	1.86	0.57
14:2V:22:ARG:NH2	45:ME:422:ARG:HE	2.03	0.57
27:4C:225:THR:O	45:KM:221:ARG:NH2	2.37	0.57
35:4S:209:ARG:NH1	46:WD:115:SER:HA	2.20	0.57
34:5R:325:LYS:HD3	34:5R:326:GLU:H	1.69	0.57
46:AF:226:ASN:HD21	49:AF:501:GDP:HN1	1.50	0.57
46:AH:36:TYR:CZ	46:AH:44:LEU:HD11	2.40	0.57
45:BA:108:TYR:HA	45:BA:112:LYS:HE3	1.87	0.57
45:BC:292:THR:HG21	45:BC:331:SER:HB3	1.86	0.57
45:BI:98:ASP:OD1	45:BI:99:ALA:N	2.38	0.57
46:BL:139:LEU:HD13	46:BL:168:SER:HB3	1.87	0.57
46:CF:86:ARG:NH2	46:DF:280:GLN:HB2	2.19	0.57
46:CH:222:TYR:O	46:CH:226:ASN:ND2	2.31	0.57
46:CL:2:ARG:HH22	45:CM:71:GLU:HA	1.70	0.57
46:CL:158:GLU:HG3	46:CL:159:TYR:CD2	2.40	0.57
46:DD:327:ASP:HA	46:DD:330:MET:HE1	1.86	0.57
45:DM:176:GLN:HG2	45:DM:177:VAL:HG23	1.87	0.57
45:EG:329:ASN:ND2	46:EH:205:GLU:OE2	2.38	0.57
45:EI:55:GLU:OE2	45:EI:61:HIS:NE2	2.38	0.57
45:FA:11:GLN:HG3	45:FA:74:VAL:HG11	1.87	0.57
46:FH:167:PHE:CE1	46:FH:233:MET:HG2	2.39	0.57
45:FK:169:PHE:HB3	45:FK:204:LEU:HD11	1.87	0.57
45:FK:311:LYS:HA	45:FK:342:GLN:HE22	1.70	0.57
45:IA:258:ASN:HB3	45:IA:352:LYS:HD2	1.87	0.57
46:IB:32:PRO:O	46:IB:83:GLN:NE2	2.38	0.57
46:IB:237:THR:HG23	46:IB:241:ARG:HH21	1.70	0.57
46:IF:238:CYS:SG	46:IF:239:CYS:N	2.78	0.57
45:IG:331:SER:O	45:IG:335:ILE:HG12	2.04	0.57
45:IM:14:ILE:O	45:IM:18:ASN:ND2	2.37	0.57
45:IM:69:ASP:OD1	45:IM:70:LEU:N	2.38	0.57
45:JA:113:GLU:OE2	45:JA:113:GLU:N	2.35	0.57
46:JH:73:MET:HA	46:JH:76:VAL:HG12	1.86	0.57
45:JI:100:ALA:HA	46:JJ:252:LYS:HG2	1.85	0.57
45:JK:245:ASP:OD1	45:JK:246:GLY:N	2.38	0.57
45:KG:271:SER:HB3	45:KG:377:MET:HB3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KH:207:LEU:HB3	46:KH:225:LEU:HD22	1.86	0.57
45:KI:339:ARG:NH2	45:KI:340:THR:HA	2.20	0.57
46:KJ:39:ASP:OD1	46:KJ:40:SER:N	2.37	0.57
45:KK:439:THR:HG22	46:KN:391:ARG:HD3	1.87	0.57
46:LH:68:LEU:HB3	46:LH:96:GLY:HA2	1.86	0.57
45:MA:399:TYR:OH	45:MA:402:ARG:NH2	2.38	0.57
46:MD:401:GLU:N	46:MD:401:GLU:OE2	2.38	0.57
45:MI:64:ARG:NH1	45:MI:129:CYS:SG	2.78	0.57
45:MM:212:ILE:HD11	45:MM:300:ASN:HA	1.86	0.57
45:OA:70:LEU:HD13	45:OA:95:GLY:HA3	1.87	0.57
46:OH:113:ILE:HD13	46:OH:150:LEU:HD21	1.87	0.57
45:OI:101:ASN:HA	45:OI:144:GLY:H	1.69	0.57
45:PA:103:PHE:HD1	45:PA:413:MET:HE1	1.70	0.57
45:PK:90:GLU:HG3	45:PK:121:ARG:NH1	2.20	0.57
46:PL:273:LEU:H	46:PL:292:GLN:NE2	2.01	0.57
46:QB:187:LEU:HD21	46:QB:408:PHE:HE2	1.69	0.57
46:SB:167:PHE:CZ	46:SB:233:MET:HG2	2.40	0.57
45:SE:81:GLY:O	45:SE:84:ARG:HD3	2.05	0.57
46:SJ:213:ARG:HH21	46:SJ:297:LYS:HB3	1.69	0.57
45:TC:287:SER:HB3	45:TC:290:GLU:HG2	1.85	0.57
46:TD:313:ALA:HB3	46:TD:349:ILE:HG12	1.85	0.57
46:TF:207:LEU:HB3	46:TF:225:LEU:HD22	1.87	0.57
46:TL:324:LYS:HG2	45:TM:210:TYR:CD2	2.39	0.57
46:UD:322:SER:H	45:UE:221:ARG:NH1	2.03	0.57
45:VA:288:VAL:HG21	45:VA:327:ASP:HB3	1.87	0.57
46:VD:285:THR:HB	46:VD:287:PRO:HD2	1.86	0.57
45:VE:407:TRP:HE1	46:VF:258:ILE:HG13	1.70	0.57
46:VJ:318:ARG:HB3	46:VJ:357:PRO:HA	1.87	0.57
45:WG:69:ASP:OD1	45:WG:70:LEU:N	2.38	0.57
45:DC:5:ILE:HG21	45:DC:122:ILE:HD11	1.87	0.57
20:1K:245:TRP:CE3	46:GB:280:GLN:HG2	2.40	0.57
1:2A:83:LEU:C	34:5R:70:ARG:HH12	2.08	0.57
21:3L:43:GLN:HB2	46:BB:357:PRO:HD2	1.86	0.57
33:4F:119:VAL:HG22	46:IL:359:LYS:NZ	2.19	0.57
37:5H:78:LEU:HD21	37:5H:97:ARG:HG2	1.86	0.57
45:AG:164:LYS:O	45:AG:166:LYS:NZ	2.38	0.57
46:DB:350:LYS:HZ1	45:DC:180:ALA:HA	1.69	0.57
46:DF:118:ASP:OD1	46:DF:119:VAL:N	2.37	0.57
46:DL:86:ARG:NH1	46:EL:281:TYR:HB2	2.20	0.57
46:DL:255:VAL:HA	45:DM:407:TRP:CE2	2.40	0.57
46:EF:192:LEU:HD21	46:EF:199:CYS:SG	2.45	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EN:207:LEU:HB3	46:EN:225:LEU:HD22	1.86	0.57
45:FA:292:THR:HG21	45:FA:331:SER:HB3	1.86	0.57
45:GA:89:PRO:HG2	45:HA:280:LYS:HD3	1.87	0.57
45:GA:352:LYS:NZ	46:GD:178:THR:HA	2.20	0.57
46:GD:377:MET:SD	46:GD:380:ARG:NH2	2.78	0.57
45:GE:241:SER:OG	45:GE:250:VAL:O	2.23	0.57
46:GH:318:ARG:HH11	46:GH:358:PRO:HG3	1.69	0.57
46:HF:205:GLU:HA	46:HF:208:TYR:HD2	1.70	0.57
45:IC:175:PRO:HG2	45:IC:304:LYS:HD2	1.86	0.57
45:IK:292:THR:HG21	45:IK:331:SER:HB3	1.84	0.57
46:KB:39:ASP:OD1	46:KB:40:SER:N	2.36	0.57
46:KN:125:GLU:OE2	46:KN:159:TYR:OH	2.21	0.57
45:LG:254:GLU:HG2	46:LJ:98:GLY:HA2	1.86	0.57
46:LH:101:TRP:NE1	46:LH:188:SER:OG	2.35	0.57
46:LH:148:GLY:O	46:LH:152:ILE:HG12	2.03	0.57
46:LH:318:ARG:HB3	46:LH:357:PRO:HA	1.85	0.57
46:LJ:132:GLY:HA3	46:LJ:163:ILE:HG22	1.87	0.57
45:LK:181:VAL:HG22	46:LL:256:ASN:OD1	2.03	0.57
45:LK:226:ASN:ND2	45:LK:367:ASP:OD2	2.38	0.57
46:LL:101:TRP:HB2	46:LL:184:ASN:HB3	1.86	0.57
46:MB:5:VAL:HG12	46:MB:62:ARG:HD3	1.86	0.57
45:MK:176:GLN:HG2	45:MK:177:VAL:HG23	1.87	0.57
45:NE:90:GLU:CD	45:OE:280:LYS:HE2	2.24	0.57
45:NK:296:PHE:HE1	45:NK:377:MET:HG3	1.70	0.57
46:NL:167:PHE:CD1	46:NL:200:MET:HB3	2.40	0.57
45:OC:46:ASP:OD1	45:OC:47:ASP:N	2.38	0.57
47:OM:501:GTP:O1G	46:ON:252:LYS:NZ	2.30	0.57
46:ON:134:GLN:HB2	46:ON:165:GLU:OE2	2.04	0.57
46:ON:248:SER:HA	46:ON:252:LYS:HD2	1.86	0.57
46:ON:285:THR:HB	46:ON:287:PRO:HD2	1.86	0.57
45:PA:318:MET:HB3	45:PA:376:CYS:SG	2.45	0.57
45:PC:27:GLU:HB3	45:PC:361:THR:HG21	1.86	0.57
45:PC:288:VAL:HG11	45:PC:327:ASP:HB3	1.85	0.57
46:PJ:405:GLU:OE2	46:PJ:409:THR:OG1	2.22	0.57
45:QE:171:ILE:O	45:QE:171:ILE:HG13	2.05	0.57
45:QI:68:LEU:HG	45:QI:93:ILE:HB	1.87	0.57
46:QL:257:LEU:HD11	46:QL:314:SER:HB2	1.86	0.57
46:RD:221:THR:HG23	46:RD:224:ASP:H	1.70	0.57
46:SB:67:ASP:O	46:SB:92:PHE:HA	2.05	0.57
46:SB:73:MET:HA	46:SB:76:VAL:HG22	1.85	0.57
45:SK:90:GLU:OE2	45:TK:215:ARG:NH2	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:253:LEU:O	46:SL:257:LEU:HB2	2.05	0.57
46:TF:109:GLY:O	46:TF:113:ILE:HG23	2.05	0.57
45:TG:91:GLN:HG3	45:TG:121:ARG:HD2	1.86	0.57
46:TH:192:LEU:HD21	46:TH:199:CYS:SG	2.45	0.57
46:TH:269:GLY:HA2	46:TH:300:MET:HG2	1.87	0.57
45:TK:280:LYS:HA	45:TK:283:HIS:CD2	2.35	0.57
45:UA:216:ASN:HB3	45:UA:276:ILE:HA	1.86	0.57
46:UJ:290:THR:HA	46:UJ:293:MET:HG2	1.87	0.57
45:UM:337:THR:O	45:UM:339:ARG:NH1	2.38	0.57
46:WH:209:ASP:HB3	46:WH:213:ARG:HH22	1.69	0.57
45:WI:326:LYS:HA	45:WI:326:LYS:HE2	1.86	0.57
45:CE:167:LEU:HD13	45:CE:200:VAL:HB	1.87	0.57
12:OT:65:ARG:HH21	46:MB:111:GLU:HB3	1.70	0.56
17:1F:121:ARG:NH1	45:GI:77:GLU:OE1	2.38	0.56
21:2L:901:LYS:HD2	46:CJ:320:ARG:NH2	2.19	0.56
34:4R:432:SER:OG	34:4R:433:GLN:N	2.33	0.56
34:4R:547:GLU:HA	34:4R:550:VAL:HG12	1.87	0.56
36:5B:102:TYR:CZ	45:KE:394:LYS:HE3	2.39	0.56
35:5S:68:TYR:CD2	35:5S:104:ILE:HG21	2.40	0.56
34:6R:223:PRO:O	34:6R:226:LYS:NZ	2.37	0.56
46:AB:65:LEU:HD22	46:AB:90:PHE:HE1	1.70	0.56
46:AB:371:SER:O	46:AB:422:TYR:OH	2.13	0.56
46:AD:322:SER:OG	46:AD:325:GLU:OE1	2.20	0.56
45:AM:116:ASP:OD1	45:AM:117:LEU:N	2.38	0.56
45:AM:135:PHE:HB2	45:AM:166:LYS:HG2	1.87	0.56
46:BB:222:TYR:O	46:BB:226:ASN:ND2	2.28	0.56
46:BF:332:ASN:O	46:BF:336:LYS:HG3	2.05	0.56
46:CN:86:ARG:HD2	46:DN:281:TYR:HB2	1.87	0.56
46:DL:350:LYS:HZ1	45:DM:181:VAL:N	2.03	0.56
46:EB:316:LEU:HD23	46:EB:352:SER:HB2	1.86	0.56
46:EH:52:ASN:OD1	46:EH:62:ARG:NH2	2.38	0.56
46:EH:67:ASP:O	46:EH:92:PHE:HA	2.04	0.56
46:EJ:130:LEU:HB2	46:EJ:162:ARG:HE	1.70	0.56
46:EL:55:THR:HG23	46:FL:283:ALA:HA	1.87	0.56
46:EL:209:ASP:HB3	46:EL:213:ARG:HH21	1.69	0.56
45:FA:395:PHE:HZ	45:FA:418:PHE:HB3	1.70	0.56
45:FC:390:ARG:HG3	45:FC:391:LEU:HD12	1.85	0.56
45:GC:239:THR:HG23	45:GC:242:LEU:HD12	1.87	0.56
45:GE:221:ARG:HA	46:GF:324:LYS:HE2	1.87	0.56
45:GK:115:VAL:O	45:GK:119:LEU:HG	2.05	0.56
46:GL:25:SER:HG	46:GL:51:TYR:HH	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HB:38:GLY:HA3	46:HB:43:GLN:HE22	1.70	0.56
46:HD:25:SER:OG	46:HD:30:ILE:O	2.23	0.56
46:HD:99:ASN:HA	46:HD:142:GLY:H	1.68	0.56
46:HH:326:VAL:O	46:HH:330:MET:HG2	2.05	0.56
46:HL:377:MET:SD	46:HL:380:ARG:NH2	2.78	0.56
46:IF:5:VAL:HG12	46:IF:62:ARG:HD3	1.85	0.56
45:IM:98:ASP:O	45:IM:105:ARG:NH2	2.38	0.56
46:JB:10:GLY:O	46:JB:14:ASN:ND2	2.37	0.56
45:JC:68:LEU:HD11	45:JC:118:CYS:SG	2.44	0.56
45:JI:272:TYR:HD2	45:JI:275:ILE:HD11	1.69	0.56
46:JN:375:GLN:HG3	46:JN:379:LYS:NZ	2.20	0.56
46:KB:215:LEU:HD21	46:KB:273:LEU:HD12	1.86	0.56
45:KC:5:ILE:HG21	45:KC:122:ILE:HD11	1.87	0.56
45:KE:7:ILE:HB	45:KE:137:VAL:HG12	1.87	0.56
45:KI:75:ILE:HG22	45:KI:79:ARG:HE	1.69	0.56
45:KK:11:GLN:NE2	46:KL:245:GLN:O	2.37	0.56
45:KK:167:LEU:HD23	45:KK:200:VAL:HB	1.87	0.56
45:KM:320:ARG:HD3	45:KM:360:PRO:HG3	1.85	0.56
46:KN:375:GLN:HG3	46:KN:379:LYS:NZ	2.19	0.56
45:NG:76:ASP:OD2	46:NH:46:ARG:NH2	2.38	0.56
45:NK:408:TYR:O	45:NK:413:MET:HB2	2.05	0.56
45:OC:210:TYR:HA	45:OC:213:CYS:SG	2.45	0.56
46:OD:186:THR:HA	46:OD:189:VAL:HG12	1.86	0.56
46:OH:67:ASP:OD1	46:OH:68:LEU:N	2.33	0.56
46:OL:10:GLY:O	46:OL:14:ASN:ND2	2.37	0.56
45:PA:231:ILE:O	45:PA:235:ILE:HG12	2.05	0.56
46:PF:6:HIS:O	46:PF:63:ALA:HA	2.04	0.56
45:PG:220:GLU:C	45:PG:221:ARG:HD2	2.25	0.56
46:PJ:47:ILE:HD12	46:PJ:59:TYR:HE1	1.70	0.56
45:QI:60:LYS:HE3	45:RI:283:HIS:HA	1.87	0.56
45:QK:116:ASP:OD1	45:QK:117:LEU:N	2.37	0.56
46:QL:182:PRO:HD2	46:QL:388:MET:HE2	1.87	0.56
46:RJ:294:PHE:CD1	46:RJ:333:VAL:HG11	2.40	0.56
45:RK:211:ASP:HA	45:RK:214:ARG:HG2	1.87	0.56
46:SD:100:ASN:HB3	46:SD:103:LYS:HB3	1.87	0.56
45:TE:244:PHE:HB2	45:TE:356:ASN:HD21	1.70	0.56
45:UC:387:VAL:HA	45:UC:390:ARG:HG2	1.85	0.56
46:UH:128:ASP:OD1	46:UH:129:CYS:N	2.37	0.56
45:UK:298:PRO:HA	45:UK:301:MET:HE1	1.87	0.56
46:UL:130:LEU:HG	46:UL:162:ARG:HD2	1.86	0.56
46:UL:268:ILE:HG22	46:UL:368:VAL:HG22	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VC:251:ASP:OD1	45:VC:252:ILE:N	2.37	0.56
45:VE:33:ASP:OD2	45:VE:35:GLN:NE2	2.38	0.56
46:VH:100:ASN:HB3	46:VH:103:LYS:HE2	1.87	0.56
45:VK:135:PHE:HB2	45:VK:166:LYS:HG2	1.87	0.56
46:VN:375:GLN:O	46:VN:379:LYS:HG2	2.05	0.56
45:WC:51:THR:HG21	45:WC:243:ARG:HB3	1.87	0.56
45:WC:180:ALA:HA	46:WD:350:LYS:HE2	1.87	0.56
45:WE:274:PRO:HB3	45:WE:291:ILE:HD12	1.87	0.56
45:WG:399:TYR:O	45:WG:402:ARG:NH1	2.38	0.56
45:WK:70:LEU:HD13	45:WK:95:GLY:HA3	1.85	0.56
45:CE:55:GLU:HG3	45:CE:57:GLY:H	1.70	0.56
2:OB:241:LEU:CD1	46:JL:227:HIS:CE1	2.87	0.56
8:1H:274:LEU:HD13	46:HF:360:GLY:H	1.70	0.56
14:1V:99:PRO:HG2	45:LI:409:VAL:HG11	1.86	0.56
14:2V:24:ARG:NH2	45:ME:433:GLU:HB2	2.18	0.56
31:3I:251:TYR:HA	45:FI:96:LYS:HE3	1.85	0.56
37:5F:54:LYS:HG2	46:OF:227:HIS:CD2	2.41	0.56
40:6G:90:ASP:OD1	45:UK:79:ARG:NH1	2.39	0.56
34:6R:477:ASN:HA	34:6R:484:PRO:HA	1.87	0.56
46:AB:118:ASP:O	46:AB:121:ARG:HG3	2.05	0.56
46:AF:324:LYS:O	46:AF:328:GLU:HG3	2.04	0.56
46:AH:19:LYS:HA	46:AH:22:GLU:OE2	2.06	0.56
46:AJ:139:LEU:HD13	46:AJ:168:SER:HB3	1.86	0.56
46:BF:377:MET:O	46:BF:380:ARG:HG2	2.05	0.56
45:BK:76:ASP:OD1	45:BK:79:ARG:NH2	2.36	0.56
45:BK:390:ARG:HG3	45:BK:391:LEU:HD12	1.87	0.56
46:CB:237:THR:OG1	46:CB:241:ARG:NH2	2.38	0.56
45:CC:192:HIS:ND1	45:CC:424:ASP:OD2	2.37	0.56
46:CD:63:ALA:O	46:CD:89:ASN:ND2	2.34	0.56
45:CK:322:ASP:OD1	45:CK:373:ARG:NH1	2.38	0.56
45:DK:345:ASP:OD1	45:DK:346:TRP:N	2.38	0.56
46:EB:131:GLN:NE2	46:EB:251:ARG:HH11	2.03	0.56
45:EC:26:LEU:HD22	45:EC:364:PRO:HD3	1.87	0.56
46:EJ:164:MET:HB3	46:EJ:197:ASP:H	1.70	0.56
46:EL:148:GLY:O	46:EL:152:ILE:HG12	2.05	0.56
46:EN:12:CYS:HA	46:EN:15:GLN:HE21	1.70	0.56
45:FA:93:ILE:HD11	45:FA:121:ARG:HG3	1.87	0.56
46:FL:67:ASP:OD1	46:FL:68:LEU:N	2.37	0.56
46:GD:304:ASP:HB3	46:GD:307:HIS:ND1	2.20	0.56
46:GJ:124:ALA:HB1	46:GJ:130:LEU:HD21	1.88	0.56
46:GN:238:CYS:SG	46:GN:239:CYS:N	2.78	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HA:311:LYS:N	45:HA:382:THR:OG1	2.35	0.56
46:ID:62:ARG:O	46:ID:62:ARG:HG3	2.05	0.56
46:IH:7:ILE:HG22	46:IH:64:ILE:HB	1.86	0.56
46:IH:260:PHE:HB2	46:IH:263:LEU:HD13	1.85	0.56
46:IN:31:ASP:OD1	46:IN:35:THR:N	2.34	0.56
45:JE:88:HIS:HE1	45:JE:90:GLU:HG2	1.69	0.56
45:JG:184:PRO:HG2	45:JG:398:MET:HE1	1.87	0.56
46:JH:101:TRP:CE3	46:JH:187:LEU:HD23	2.40	0.56
46:JH:114:ASP:OD1	46:JH:115:SER:N	2.38	0.56
46:LF:73:MET:HA	46:LF:76:VAL:HG12	1.86	0.56
46:LH:1:MET:N	46:LH:48:ASN:OD1	2.38	0.56
46:LH:215:LEU:HD11	46:LH:273:LEU:HD12	1.87	0.56
45:LK:205:ASP:OD1	45:LK:303:ALA:HA	2.05	0.56
45:MA:33:ASP:HA	45:MA:85:GLN:HE21	1.69	0.56
45:MG:18:ASN:OD1	45:MG:19:ALA:N	2.37	0.56
46:ND:86:ARG:HA	46:OD:281:TYR:CD2	2.40	0.56
46:ND:236:VAL:HG13	46:ND:237:THR:HG23	1.86	0.56
45:NI:254:GLU:CD	46:NL:99:ASN:HD22	2.08	0.56
46:NL:286:VAL:HG21	46:NL:325:GLU:HG3	1.87	0.56
45:OA:179:THR:HG21	46:OB:246:LEU:HD11	1.87	0.56
45:OE:317:MET:HG2	45:OE:377:MET:HG2	1.87	0.56
46:OJ:5:VAL:HG12	46:OJ:62:ARG:HD3	1.85	0.56
45:OK:286:LEU:N	45:OK:290:GLU:OE2	2.39	0.56
46:PB:48:ASN:O	46:PB:62:ARG:NH1	2.37	0.56
46:PF:1:MET:HG2	46:PF:2:ARG:N	2.19	0.56
45:PG:251:ASP:H	45:PG:254:GLU:HG3	1.69	0.56
45:PI:352:LYS:NZ	46:PL:179:VAL:H	2.03	0.56
45:QA:311:LYS:HA	45:QA:311:LYS:HE3	1.87	0.56
46:QB:12:CYS:HA	46:QB:15:GLN:HE21	1.70	0.56
46:QB:350:LYS:NZ	46:QB:352:SER:OG	2.25	0.56
45:QC:2:ARG:HD3	45:QC:242:LEU:HD12	1.88	0.56
45:QC:14:ILE:HD11	45:QC:69:ASP:HB2	1.85	0.56
45:QG:292:THR:HG21	45:QG:331:SER:HB3	1.87	0.56
45:QI:5:ILE:HD12	45:QI:135:PHE:HE1	1.69	0.56
45:QI:171:ILE:O	45:QI:171:ILE:HG13	2.05	0.56
45:RE:171:ILE:O	45:RE:171:ILE:HG13	2.05	0.56
45:RE:244:PHE:HB2	45:RE:356:ASN:HD21	1.68	0.56
46:RF:83:GLN:O	46:SF:281:TYR:OH	2.17	0.56
46:RF:136:THR:HG23	46:RF:167:PHE:HB2	1.86	0.56
46:RH:213:ARG:HD2	46:RH:297:LYS:HD3	1.86	0.56
45:RM:99:ALA:HB3	45:RM:145:THR:HB	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SE:31:GLN:HG3	45:SE:32:PRO:HD2	1.87	0.56
45:SK:123:ARG:HH21	45:TK:338:LYS:HE2	1.69	0.56
46:SN:257:LEU:HD11	46:SN:314:SER:HB2	1.87	0.56
46:TD:87:PRO:HA	46:TD:90:PHE:HD2	1.69	0.56
45:TE:101:ASN:HA	45:TE:144:GLY:H	1.69	0.56
45:TE:402:ARG:O	45:TE:402:ARG:HD3	2.05	0.56
46:TN:257:LEU:HD11	46:TN:314:SER:HB2	1.87	0.56
46:UB:46:ARG:NH2	45:UC:76:ASP:OD2	2.37	0.56
46:UF:254:ALA:O	46:UF:258:ILE:HG22	2.05	0.56
46:UF:274:THR:HB	46:UF:282:ARG:HH11	1.70	0.56
45:UI:244:PHE:HB2	45:UI:356:ASN:HD21	1.70	0.56
46:UL:313:ALA:HB1	46:UL:367:PHE:HE1	1.68	0.56
45:VA:274:PRO:HB3	45:VA:291:ILE:HD12	1.87	0.56
45:WG:265:ILE:HG12	45:WG:432:TYR:HE1	1.70	0.56
46:WJ:304:ASP:OD1	46:WJ:306:ARG:NH1	2.38	0.56
45:WK:301:MET:HG3	45:WK:303:ALA:H	1.70	0.56
45:WK:346:TRP:CD1	46:WN:391:ARG:HG3	2.40	0.56
45:WM:178:SER:OG	46:WN:347:ASN:ND2	2.35	0.56
45:WM:215:ARG:NH2	45:WM:299:ALA:O	2.38	0.56
46:WN:206:ALA:O	46:WN:210:ILE:HG12	2.05	0.56
45:CE:31:GLN:NE2	45:CE:35:GLN:O	2.39	0.56
16:1B:63:GLN:NE2	45:LC:80:THR:HB	2.20	0.56
3:1C:82:THR:O	46:EL:320:ARG:NH1	2.39	0.56
3:1C:96:LYS:NZ	45:EM:364:PRO:HB3	2.19	0.56
18:1I:141:PHE:HE2	46:KF:43:GLN:HG3	1.69	0.56
19:1J:77:TYR:CE1	45:IC:281:ALA:HB3	2.40	0.56
4:2D:93:GLN:HA	45:EK:32:PRO:HG2	1.86	0.56
30:2H:205:GLN:NE2	45:AC:81:GLY:HA2	2.20	0.56
11:2S:97:ARG:HH22	46:MJ:262:ARG:HH11	1.53	0.56
1:3A:39:TYR:HD2	45:MM:81:GLY:HA3	1.70	0.56
30:3H:193:LEU:HD22	46:AH:357:PRO:HG3	1.87	0.56
34:4R:379:LYS:HZ2	34:4R:381:PHE:HE2	1.51	0.56
34:4R:469:LYS:NZ	34:4R:472:GLU:HA	2.20	0.56
15:4X:51:GLN:HG2	15:4X:55:GLU:OE2	2.05	0.56
37:5E:145:GLU:HA	37:5E:148:GLN:OE1	2.05	0.56
37:5F:26:GLY:H	45:OC:221:ARG:HD3	1.70	0.56
37:5F:154:TYR:HD2	37:5G:11:TRP:CD1	2.24	0.56
37:5G:63:HIS:HD2	46:NJ:58:ARG:HD2	1.70	0.56
37:5G:210:THR:OG1	45:LK:431:ASP:OD2	2.15	0.56
10:5Q:57:ASN:HB2	10:5Q:158:ALA:HB2	1.87	0.56
34:5R:381:PHE:HD2	46:DJ:32:PRO:HD2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:5R:550:VAL:O	34:5R:554:LYS:HG3	2.05	0.56
39:6F:70:ASN:HB2	46:JF:360:GLY:HA3	1.86	0.56
44:8R:234:TYR:OH	45:PE:279:GLU:O	2.14	0.56
45:AC:188:ILE:HD11	45:AC:391:LEU:HB3	1.88	0.56
45:AE:120:ASP:OD1	45:AE:123:ARG:NH2	2.35	0.56
46:AJ:74:ASP:OD1	46:AJ:77:ARG:NH2	2.39	0.56
46:AL:289:LEU:HD13	46:AL:365:VAL:HG23	1.86	0.56
45:AM:177:VAL:HG13	46:AN:327:ASP:OD2	2.06	0.56
46:BD:341:PHE:HB3	46:BD:348:ASN:HD21	1.69	0.56
45:BE:89:PRO:HD3	45:CE:283:HIS:CE1	2.40	0.56
45:BE:244:PHE:HB2	45:BE:356:ASN:HD21	1.70	0.56
45:BG:276:ILE:HD12	45:BG:281:ALA:HA	1.86	0.56
45:BG:417:GLU:HA	45:BG:420:GLU:OE1	2.05	0.56
46:BN:203:ASP:OD2	46:BN:302:ALA:N	2.29	0.56
45:CA:30:ILE:HG21	45:CA:53:PHE:HE2	1.71	0.56
46:CB:350:LYS:NZ	45:CC:181:VAL:HG12	2.20	0.56
45:CC:88:HIS:HB3	45:CC:91:GLN:NE2	2.20	0.56
46:CD:324:LYS:HE3	45:CE:210:TYR:CE1	2.40	0.56
46:CF:321:MET:HB2	45:CG:221:ARG:NH2	2.18	0.56
45:CG:69:ASP:OD1	45:CG:70:LEU:N	2.37	0.56
45:CG:254:GLU:OE1	45:CG:254:GLU:N	2.38	0.56
46:CH:392:LYS:HA	46:CH:395:LEU:HD12	1.88	0.56
46:CL:243:PRO:HB3	45:CM:77:GLU:OE2	2.04	0.56
46:DD:324:LYS:O	46:DD:328:GLU:HG2	2.05	0.56
45:DE:10:GLY:O	45:DE:13:GLY:N	2.38	0.56
46:DH:317:PHE:HB2	46:DH:353:ILE:HD13	1.87	0.56
46:DJ:317:PHE:CD1	46:DJ:365:VAL:HG22	2.40	0.56
45:DK:5:ILE:HD12	45:DK:135:PHE:HE1	1.70	0.56
46:DN:208:TYR:CE2	46:DN:225:LEU:HD11	2.40	0.56
46:ED:55:THR:HG23	46:FD:283:ALA:HA	1.87	0.56
45:EE:169:PHE:HB3	45:EE:204:LEU:HD11	1.86	0.56
46:EF:31:ASP:OD1	46:EF:35:THR:N	2.38	0.56
45:EG:77:GLU:HA	45:EG:80:THR:HG22	1.88	0.56
46:EH:268:ILE:HG13	46:EH:300:MET:HG3	1.87	0.56
46:FB:238:CYS:HA	46:FB:241:ARG:CZ	2.35	0.56
45:FC:259:LEU:HD21	45:FC:316:SER:HB3	1.85	0.56
46:FF:238:CYS:HB2	46:FF:318:ARG:NE	2.20	0.56
46:FJ:54:ALA:HA	46:GJ:283:ALA:HB2	1.87	0.56
46:FJ:86:ARG:CZ	46:GJ:282:ARG:HH12	2.19	0.56
45:FM:322:ASP:OD1	45:FM:373:ARG:NH1	2.32	0.56
46:FN:16:ILE:HD12	46:FN:229:VAL:HG11	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GE:9:VAL:HG12	45:GE:68:LEU:HB2	1.86	0.56
46:GF:68:LEU:HB3	46:GF:96:GLY:HA2	1.86	0.56
46:GF:167:PHE:CE2	46:GF:233:MET:HG2	2.40	0.56
45:GG:171:ILE:HG13	45:GG:204:LEU:O	2.05	0.56
45:GK:119:LEU:HD11	45:GK:156:ARG:HD3	1.88	0.56
46:GN:178:THR:HB	46:GN:181:GLU:HG3	1.87	0.56
45:HA:55:GLU:OE2	45:HA:57:GLY:N	2.38	0.56
46:HH:113:ILE:HD11	46:HH:151:LEU:HD13	1.86	0.56
46:HH:313:ALA:HB1	46:HH:367:PHE:HE1	1.71	0.56
45:HI:326:LYS:HZ3	46:HL:208:TYR:HB3	1.70	0.56
45:HK:340:THR:HG23	45:HK:341:ILE:HG13	1.87	0.56
45:IC:311:LYS:HZ3	45:IC:342:GLN:HG3	1.68	0.56
45:IK:8:HIS:HB2	45:IK:67:PHE:HD1	1.69	0.56
46:IN:87:PRO:HG2	45:JK:280:LYS:HG2	1.86	0.56
45:JA:241:SER:OG	45:JA:249:ASN:OD1	2.22	0.56
46:JH:2:ARG:HB2	46:JH:131:GLN:HG3	1.87	0.56
45:KC:8:HIS:CD2	45:KC:138:PHE:HD2	2.24	0.56
45:KG:221:ARG:HA	46:KH:324:LYS:CE	2.35	0.56
46:KJ:318:ARG:NH1	46:KJ:358:PRO:HG3	2.20	0.56
45:LC:51:THR:HG21	45:LC:243:ARG:HD3	1.87	0.56
45:LC:226:ASN:ND2	45:LC:367:ASP:OD2	2.38	0.56
45:LM:133:GLN:HG2	45:LM:252:ILE:HD12	1.87	0.56
45:MC:326:LYS:HA	45:MC:326:LYS:HE3	1.87	0.56
45:ME:68:LEU:HD23	45:ME:93:ILE:HB	1.88	0.56
45:ME:178:SER:HB3	46:MF:347:ASN:HD21	1.70	0.56
46:MH:318:ARG:HH11	46:MH:358:PRO:HG3	1.71	0.56
46:MH:403:MET:HB2	46:MH:407:GLU:OE2	2.05	0.56
46:MJ:99:ASN:HA	46:MJ:142:GLY:H	1.70	0.56
45:MK:226:ASN:ND2	45:MK:367:ASP:OD2	2.37	0.56
45:MM:210:TYR:CD2	46:MN:324:LYS:HE2	2.41	0.56
46:MN:286:VAL:HB	46:MN:325:GLU:HG2	1.88	0.56
46:ND:222:TYR:HA	46:ND:225:LEU:HD12	1.86	0.56
45:NE:252:ILE:HD12	45:NE:252:ILE:H	1.71	0.56
45:NG:105:ARG:NH2	45:NG:411:GLU:OE2	2.37	0.56
46:NH:68:LEU:HB3	46:NH:96:GLY:HA2	1.87	0.56
46:NH:103:LYS:O	46:NH:107:THR:OG1	2.22	0.56
45:NI:2:ARG:HB2	45:NI:133:GLN:HE21	1.69	0.56
45:NI:326:LYS:HG3	45:NI:327:ASP:N	2.18	0.56
46:NL:222:TYR:O	46:NL:226:ASN:ND2	2.23	0.56
46:NN:380:ARG:HG2	46:NN:384:GLN:HE22	1.70	0.56
45:OA:11:GLN:HG3	45:OA:15:GLN:HE22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OD:372:THR:HG21	46:OD:426:GLN:HB2	1.86	0.56
45:OG:231:ILE:O	45:OG:235:ILE:HG12	2.04	0.56
46:ON:131:GLN:HA	46:ON:162:ARG:HH21	1.70	0.56
46:ON:266:PHE:HE1	46:ON:370:ASN:HD22	1.52	0.56
45:PA:108:TYR:HA	45:PA:112:LYS:HE3	1.87	0.56
46:PD:209:ASP:HB3	46:PD:213:ARG:HH22	1.70	0.56
46:PD:398:TYR:O	46:PD:403:MET:HB2	2.04	0.56
45:PI:119:LEU:HG	45:PI:156:ARG:HD3	1.87	0.56
46:PN:285:THR:OG1	46:PN:288:GLU:OE1	2.19	0.56
45:QA:172:TYR:HD2	45:QA:203:MET:HG3	1.70	0.56
45:QA:231:ILE:O	45:QA:235:ILE:HG12	2.04	0.56
46:QB:45:GLU:HG2	46:QB:46:ARG:HG2	1.87	0.56
45:QE:55:GLU:HG3	45:QE:57:GLY:H	1.70	0.56
46:QJ:67:ASP:O	46:QJ:92:PHE:HA	2.05	0.56
45:QK:244:PHE:HB2	45:QK:356:ASN:HD21	1.71	0.56
46:QL:207:LEU:HB3	46:QL:225:LEU:HD12	1.87	0.56
46:RD:67:ASP:O	46:RD:92:PHE:HA	2.06	0.56
46:RJ:68:LEU:HD13	46:RJ:143:THR:OG1	2.05	0.56
45:RM:292:THR:HG21	45:RM:331:SER:HB3	1.87	0.56
46:SB:135:ILE:HG13	46:SB:152:ILE:HD11	1.86	0.56
46:SH:97:ALA:O	46:SH:103:LYS:NZ	2.33	0.56
45:SK:63:PRO:HG2	45:SK:87:PHE:HA	1.87	0.56
46:TB:67:ASP:O	46:TB:92:PHE:HA	2.05	0.56
46:TF:22:GLU:HG2	46:TF:81:PHE:HD2	1.70	0.56
45:TG:229:ARG:NH1	45:TG:366:GLY:HA2	2.20	0.56
46:TH:27:GLU:OE2	46:TH:241:ARG:NH2	2.29	0.56
46:TH:186:THR:HA	46:TH:415:MET:HE1	1.86	0.56
45:TI:33:ASP:HA	45:TI:85:GLN:HE21	1.71	0.56
46:TJ:222:TYR:O	46:TJ:226:ASN:ND2	2.28	0.56
46:TJ:309:ARG:NH2	46:TJ:426:GLN:O	2.31	0.56
46:TJ:321:MET:HB2	45:TK:221:ARG:NH2	2.19	0.56
45:TK:390:ARG:HG3	45:TK:391:LEU:HD12	1.88	0.56
45:TM:75:ILE:HD12	45:TM:92:LEU:HB3	1.87	0.56
45:UA:242:LEU:HD11	45:UA:252:ILE:HG13	1.87	0.56
46:UB:321:MET:HG3	45:UC:221:ARG:NH2	2.16	0.56
45:UG:215:ARG:NH2	45:UG:300:ASN:OD1	2.38	0.56
45:UI:88:HIS:CE1	45:VG:280:LYS:HE3	2.40	0.56
46:UJ:132:GLY:HA3	46:UJ:163:ILE:O	2.05	0.56
45:UK:254:GLU:HG2	46:UL:98:GLY:HA2	1.87	0.56
46:UN:384:GLN:O	46:UN:388:MET:HG2	2.05	0.56
45:VA:9:VAL:HG12	45:VA:146:GLY:HA2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:67:PHE:HB2	45:VA:92:LEU:HD13	1.87	0.56
45:VA:326:LYS:HB2	46:VD:212:PHE:HZ	1.69	0.56
46:VB:73:MET:HA	46:VB:76:VAL:HG12	1.88	0.56
46:VB:158:GLU:HG3	46:VB:159:TYR:CD1	2.40	0.56
46:VB:313:ALA:HB1	46:VB:367:PHE:HE1	1.69	0.56
46:VD:20:PHE:O	46:VD:24:ILE:HG12	2.05	0.56
45:VE:111:GLY:O	45:VE:115:VAL:HG13	2.05	0.56
46:VH:86:ARG:CZ	46:WH:281:TYR:HB3	2.35	0.56
45:VK:338:LYS:HD3	45:VK:340:THR:HG22	1.87	0.56
45:VM:244:PHE:HB2	45:VM:356:ASN:HD21	1.70	0.56
46:WD:257:LEU:HD21	46:WD:314:SER:HB2	1.88	0.56
46:WF:257:LEU:HD21	46:WF:314:SER:HB2	1.85	0.56
46:WH:5:VAL:HG12	46:WH:62:ARG:HD3	1.87	0.56
45:WK:329:ASN:HA	45:WK:332:ILE:HG12	1.88	0.56
45:WM:391:LEU:HD22	45:WM:394:LYS:HZ1	1.69	0.56
46:WN:238:CYS:SG	46:WN:239:CYS:N	2.78	0.56
17:1F:20:TYR:CD2	46:HL:40:SER:HB3	2.40	0.56
1:2A:52:THR:HG21	34:5R:71:LYS:HB3	1.87	0.56
29:2G:37:LYS:NZ	46:JJ:77:ARG:HD2	2.20	0.56
30:3H:205:GLN:NE2	45:AG:82:THR:HB	2.19	0.56
36:5C:137:ARG:NH2	36:5C:173:GLN:O	2.31	0.56
37:5E:176:ASP:OD1	37:5E:177:LEU:N	2.38	0.56
37:5H:9:TYR:HB2	37:5H:10:PRO:HD3	1.87	0.56
34:5R:128:HIS:HE1	34:5R:143:VAL:HG23	1.70	0.56
44:8R:77:UNK:O	44:8R:82:UNK:CB	2.54	0.56
45:AE:102:ASN:ND2	45:AE:407:TRP:O	2.36	0.56
45:AK:288:VAL:CG1	45:AK:327:ASP:HB3	2.35	0.56
46:BJ:178:THR:HG22	46:BJ:180:VAL:H	1.70	0.56
45:BM:174:SER:OG	45:BM:207:GLU:OE1	2.23	0.56
45:CG:121:ARG:HH12	45:CG:124:LYS:HG3	1.70	0.56
46:CH:86:ARG:HD2	46:DH:282:ARG:HH12	1.69	0.56
46:CH:257:LEU:HD21	46:CH:314:SER:HB2	1.87	0.56
46:CL:83:GLN:O	46:DL:281:TYR:OH	2.21	0.56
46:DF:86:ARG:NH2	46:EF:281:TYR:O	2.38	0.56
46:DH:165:GLU:HG2	46:DH:198:GLU:HG2	1.87	0.56
45:DI:269:LEU:HD13	45:DI:301:MET:SD	2.46	0.56
46:DL:49:VAL:HG23	46:DL:50:TYR:HD2	1.71	0.56
46:DL:87:PRO:HA	46:DL:90:PHE:CD2	2.40	0.56
46:EJ:334:GLN:HA	46:EJ:341:PHE:HE1	1.70	0.56
46:EL:135:ILE:HG13	46:EL:152:ILE:HD11	1.87	0.56
46:FB:86:ARG:CZ	46:GB:281:TYR:HB3	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:175:PRO:HG3	45:GG:390:ARG:NH2	2.21	0.56
45:GK:129:CYS:SG	45:GK:130:THR:N	2.79	0.56
46:GN:67:ASP:OD2	46:GN:72:THR:OG1	2.20	0.56
46:GN:389:PHE:HZ	46:GN:405:GLU:HB2	1.71	0.56
45:HA:97:GLU:HG2	45:HA:105:ARG:HH22	1.70	0.56
45:HE:174:SER:HB2	45:HE:177:VAL:O	2.05	0.56
46:HH:304:ASP:OD1	46:HH:306:ARG:NH2	2.38	0.56
45:HI:258:ASN:HD22	46:HL:179:VAL:HG22	1.70	0.56
45:IM:287:SER:HB3	45:IM:290:GLU:HG2	1.88	0.56
45:JI:178:SER:HB3	46:JJ:347:ASN:ND2	2.20	0.56
45:JM:181:VAL:HG22	46:JN:256:ASN:OD1	2.04	0.56
46:KD:54:ALA:HB3	46:KD:58:ARG:HG2	1.86	0.56
45:KG:394:LYS:NZ	46:KH:346:PRO:HG2	2.20	0.56
46:LB:60:VAL:HG11	46:LB:86:ARG:HH11	1.69	0.56
46:LF:91:VAL:HG21	46:LF:116:VAL:HB	1.88	0.56
45:LI:69:ASP:OD1	45:LI:70:LEU:N	2.39	0.56
45:LI:407:TRP:CZ3	46:LJ:255:VAL:HA	2.40	0.56
46:LJ:39:ASP:OD1	46:LJ:40:SER:N	2.39	0.56
46:MB:276:ARG:HD2	46:MB:279:GLN:HE22	1.70	0.56
45:MK:260:VAL:HB	46:MN:397:TRP:CZ2	2.41	0.56
46:MN:255:VAL:HG13	46:MN:256:ASN:HD22	1.71	0.56
45:NA:89:PRO:HD2	45:OA:280:LYS:HZ3	1.70	0.56
46:NB:2:ARG:HB3	46:NB:131:GLN:HG3	1.86	0.56
46:NH:309:ARG:NH2	46:NH:341:PHE:O	2.38	0.56
45:OA:265:ILE:HG22	45:OA:380:ASN:HD21	1.70	0.56
45:OC:250:VAL:HG13	45:OC:254:GLU:HB2	1.88	0.56
46:OD:148:GLY:O	46:OD:152:ILE:HG12	2.05	0.56
46:OD:211:CYS:HA	46:OD:215:LEU:HB2	1.87	0.56
45:OG:80:THR:O	45:OG:84:ARG:NH2	2.38	0.56
46:OL:12:CYS:O	46:OL:16:ILE:HG12	2.05	0.56
46:ON:372:THR:HA	46:ON:422:TYR:CE2	2.41	0.56
45:PC:210:TYR:HE1	45:PC:227:LEU:HD21	1.71	0.56
46:QF:178:THR:HB	46:QF:181:GLU:HG3	1.87	0.56
46:QH:206:ALA:O	46:QH:210:ILE:HG12	2.05	0.56
46:QH:290:THR:HA	46:QH:293:MET:HG3	1.87	0.56
45:QK:328:VAL:HG11	45:QK:353:VAL:HG21	1.88	0.56
45:RC:185:TYR:O	45:RC:189:LEU:HD13	2.06	0.56
46:RD:324:LYS:HZ1	45:RE:214:ARG:HD2	1.70	0.56
46:RH:5:VAL:HG11	46:RH:123:GLU:HG3	1.87	0.56
46:SB:320:ARG:HG2	46:SB:355:ASP:HB3	1.87	0.56
45:SC:76:ASP:OD1	45:SC:79:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:286:VAL:HG23	46:SD:287:PRO:HD3	1.88	0.56
46:TB:135:ILE:HG13	46:TB:152:ILE:HD11	1.87	0.56
46:TH:229:VAL:HG12	46:TH:233:MET:HE2	1.87	0.56
46:TL:322:SER:O	45:TM:221:ARG:NH2	2.39	0.56
46:TL:390:ARG:CZ	46:TL:390:ARG:HA	2.35	0.56
46:UN:45:GLU:HG3	46:UN:46:ARG:HG2	1.87	0.56
45:VA:260:VAL:HG23	45:VA:265:ILE:O	2.06	0.56
46:VB:119:VAL:O	46:VB:122:LYS:HG2	2.06	0.56
46:VL:86:ARG:HD3	46:VL:87:PRO:HD2	1.87	0.56
45:WA:260:VAL:HB	46:WD:397:TRP:CZ2	2.40	0.56
45:WG:173:PRO:O	45:WG:390:ARG:NH2	2.38	0.56
45:WM:135:PHE:HB2	45:WM:166:LYS:HG2	1.87	0.56
2:0B:24:PRO:HD3	46:JH:276:ARG:HH22	1.70	0.56
7:0G:18:LEU:HD11	45:IK:76:ASP:HB3	1.88	0.56
15:0X:3:ARG:NH2	46:MD:11:GLN:OE1	2.39	0.56
1:2A:71:TYR:OH	46:AJ:320:ARG:HB2	2.05	0.56
23:2O:368:GLU:HG3	45:VC:370:LYS:NZ	2.19	0.56
25:3R:64:ASN:HD21	46:ML:40:SER:HB3	1.69	0.56
34:4R:414:ASN:OD1	34:4R:415:LYS:N	2.38	0.56
36:5A:135:ASN:O	36:5A:138:ARG:HB2	2.06	0.56
40:6G:284:LYS:O	40:6G:288:LYS:NZ	2.38	0.56
45:AA:175:PRO:HG2	45:AA:304:LYS:HD3	1.85	0.56
45:AE:184:PRO:O	45:AE:188:ILE:HG12	2.06	0.56
45:AE:292:THR:HG21	45:AE:331:SER:HB3	1.87	0.56
45:AE:322:ASP:OD1	45:AE:373:ARG:NH1	2.38	0.56
46:AN:318:ARG:HE	46:AN:358:PRO:HG3	1.71	0.56
45:BA:209:ILE:HA	45:BA:212:ILE:HD12	1.87	0.56
45:BC:175:PRO:HA	45:BC:390:ARG:NH1	2.21	0.56
46:BF:19:LYS:HD2	46:BF:22:GLU:OE1	2.05	0.56
46:BJ:91:VAL:HG21	46:BJ:116:VAL:HB	1.88	0.56
46:BJ:148:GLY:O	46:BJ:152:ILE:HG12	2.05	0.56
45:BM:221:ARG:HD2	46:BN:322:SER:HB3	1.87	0.56
46:CD:267:MET:HG3	46:CD:299:MET:SD	2.46	0.56
46:CF:41:ASP:OD2	46:CF:42:LEU:N	2.38	0.56
45:CG:54:SER:HB3	45:CG:64:ARG:HH21	1.71	0.56
46:CL:282:ARG:NH2	46:CL:292:GLN:OE1	2.39	0.56
45:DG:68:LEU:HD23	45:DG:93:ILE:HB	1.87	0.56
45:DG:255:PHE:HA	45:DG:259:LEU:HD23	1.86	0.56
46:EB:116:VAL:HA	46:EB:119:VAL:HG12	1.87	0.56
46:EH:394:PHE:HA	46:EH:397:TRP:CZ3	2.41	0.56
45:EI:76:ASP:OD1	45:EI:79:ARG:NH2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:141:VAL:HG11	45:EM:172:TYR:HD1	1.71	0.56
45:FE:90:GLU:O	45:FE:121:ARG:NH2	2.39	0.56
46:FN:221:THR:HG23	46:FN:224:ASP:H	1.70	0.56
46:GD:48:ASN:O	46:GD:62:ARG:NH1	2.37	0.56
45:GE:335:ILE:O	45:GE:338:LYS:HB2	2.05	0.56
46:GL:105:HIS:CE1	46:GL:150:LEU:HD12	2.41	0.56
45:HA:260:VAL:HB	46:HD:397:TRP:CZ2	2.41	0.56
46:HD:190:HIS:ND1	46:HD:411:ALA:HA	2.21	0.56
46:HD:282:ARG:NH1	46:HD:288:GLU:OE2	2.39	0.56
46:HF:293:MET:SD	46:HF:365:VAL:HG11	2.46	0.56
46:HN:113:ILE:HD13	46:HN:150:LEU:HD22	1.87	0.56
46:ID:380:ARG:NH1	46:ID:384:GLN:OE1	2.39	0.56
45:IG:96:LYS:HE3	45:IG:96:LYS:HA	1.87	0.56
46:IL:67:ASP:O	46:IL:92:PHE:HA	2.05	0.56
46:IL:226:ASN:HD21	49:IL:501:GDP:HN1	1.52	0.56
45:JA:129:CYS:SG	45:JA:130:THR:N	2.79	0.56
45:JC:335:ILE:HA	45:JC:338:LYS:NZ	2.20	0.56
45:JK:279:GLU:OE2	45:JK:280:LYS:HG3	2.06	0.56
46:JL:31:ASP:OD1	46:JL:35:THR:N	2.33	0.56
46:KB:407:GLU:HA	46:KB:410:GLU:OE2	2.06	0.56
45:KE:254:GLU:OE1	46:KH:98:GLY:HA2	2.06	0.56
46:KF:326:VAL:O	46:KF:330:MET:HG2	2.06	0.56
45:KG:210:TYR:HE2	45:KG:227:LEU:HD11	1.69	0.56
46:KN:375:GLN:O	46:KN:379:LYS:HG3	2.05	0.56
45:LG:251:ASP:OD1	45:LG:252:ILE:N	2.38	0.56
45:LM:394:LYS:HE2	46:LN:346:PRO:HG3	1.87	0.56
45:ME:188:ILE:HD12	45:ME:425:LEU:HD11	1.87	0.56
46:MJ:322:SER:OG	46:MJ:325:GLU:OE1	2.24	0.56
46:NH:361:LEU:HD23	46:NH:364:ALA:HB2	1.88	0.56
46:OB:131:GLN:HA	46:OB:162:ARG:HH21	1.71	0.56
46:OB:254:ALA:O	46:OB:258:ILE:HG22	2.05	0.56
45:OC:224:TYR:HB2	46:OD:245:GLN:HE22	1.71	0.56
45:OG:90:GLU:H	45:PG:280:LYS:HZ1	1.54	0.56
45:OM:275:ILE:O	45:OM:275:ILE:HG13	2.06	0.56
46:PH:49:VAL:HG23	46:PH:50:TYR:HD2	1.70	0.56
46:PJ:249:ASP:H	46:PJ:252:LYS:HG3	1.69	0.56
46:QD:309:ARG:NH2	46:QD:426:GLN:O	2.31	0.56
46:QF:12:CYS:O	46:QF:16:ILE:HD12	2.05	0.56
46:RB:10:GLY:O	46:RB:14:ASN:ND2	2.38	0.56
46:RJ:316:LEU:HD13	46:RJ:352:SER:HB2	1.86	0.56
45:RK:68:LEU:HD13	45:RK:93:ILE:HB	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:192:HIS:CD2	45:SG:421:ALA:HA	2.41	0.56
45:SG:247:ALA:HB3	45:SG:355:ILE:HD11	1.87	0.56
46:SL:97:ALA:HB3	46:SL:143:THR:HB	1.88	0.56
45:SM:270:SER:OG	45:SM:302:MET:SD	2.60	0.56
45:TA:323:VAL:HB	45:TA:373:ARG:NH1	2.21	0.56
45:TC:77:GLU:HA	45:TC:80:THR:HG22	1.86	0.56
45:TK:201:ALA:HB3	45:TK:267:PHE:HD1	1.69	0.56
46:UB:334:GLN:NE2	46:UB:348:ASN:OD1	2.39	0.56
45:UE:101:ASN:HA	45:UE:144:GLY:H	1.70	0.56
46:UN:66:MET:HE3	46:UN:116:VAL:HG11	1.87	0.56
45:VA:407:TRP:HE1	46:VB:258:ILE:HG23	1.71	0.56
46:VB:134:GLN:N	46:VB:134:GLN:OE1	2.39	0.56
46:VD:337:ASN:HB3	46:VD:340:TYR:HB2	1.87	0.56
45:WG:335:ILE:HA	45:WG:338:LYS:HE2	1.87	0.56
46:WH:344:TRP:HB3	46:WH:430:ALA:HB2	1.87	0.56
45:WK:101:ASN:HA	45:WK:144:GLY:H	1.71	0.56
45:WM:284:GLU:HG3	45:WM:286:LEU:HD22	1.87	0.56
45:CE:8:HIS:HB2	45:CE:67:PHE:HD1	1.69	0.56
45:DC:52:PHE:HZ	45:DC:239:THR:HG21	1.71	0.56
18:1I:183:ILE:HD11	46:KH:77:ARG:HG2	1.86	0.56
21:1L:781:MET:HA	46:BD:320:ARG:NH1	2.21	0.56
23:1O:271:ALA:HB3	45:UA:278:ALA:C	2.26	0.56
24:1P:298:ASP:OD2	46:TD:320:ARG:NH2	2.38	0.56
11:1S:273:ILE:HG21	46:WF:122:LYS:HD3	1.87	0.56
1:3A:35:TYR:O	46:MN:320:ARG:NH1	2.38	0.56
25:3R:289:ASN:ND2	46:DL:219:THR:OG1	2.38	0.56
30:4H:183:PHE:HB3	46:AL:227:HIS:ND1	2.21	0.56
36:5D:45:TYR:CZ	36:5D:56:ILE:HG13	2.41	0.56
37:5H:44:ARG:NH2	45:NK:56:THR:O	2.38	0.56
10:6Q:5:THR:O	10:6Q:7:GLN:NE2	2.39	0.56
45:AA:33:ASP:HA	45:AA:85:GLN:HE21	1.71	0.56
45:AE:111:GLY:O	45:AE:115:VAL:HG13	2.05	0.56
45:AK:9:VAL:HG12	45:AK:68:LEU:HB2	1.87	0.56
45:BA:223:THR:HG23	45:BA:225:THR:H	1.71	0.56
45:BI:60:LYS:NZ	45:CI:282:TYR:O	2.38	0.56
45:BM:322:ASP:OD1	45:BM:373:ARG:NH1	2.38	0.56
45:CA:208:ALA:O	45:CA:212:ILE:HG12	2.06	0.56
45:CA:254:GLU:N	45:CA:254:GLU:OE2	2.36	0.56
45:CA:284:GLU:HG2	45:CA:286:LEU:HD22	1.88	0.56
45:CA:308:ARG:HH22	45:CA:342:GLN:HE22	1.54	0.56
45:CC:101:ASN:HA	45:CC:144:GLY:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CD:328:GLU:OE2	45:CE:214:ARG:NH2	2.39	0.56
45:DA:242:LEU:HD11	45:DA:252:ILE:HG13	1.86	0.56
45:DA:340:THR:HG23	45:DA:341:ILE:HG13	1.88	0.56
46:DD:208:TYR:HB3	45:DC:326:LYS:HZ1	1.71	0.56
45:DK:141:VAL:HG11	45:DK:172:TYR:HD1	1.69	0.56
46:DL:67:ASP:OD1	46:DL:68:LEU:N	2.39	0.56
46:DL:198:GLU:OE2	46:DL:254:ALA:HA	2.06	0.56
46:ED:3:GLU:HB2	46:ED:62:ARG:HH12	1.71	0.56
46:FF:226:ASN:HD21	49:FF:501:GDP:HN1	1.53	0.56
46:FL:256:ASN:ND2	46:FL:350:LYS:HE3	2.20	0.56
46:FN:31:ASP:OD2	46:FN:37:HIS:ND1	2.38	0.56
45:GA:292:THR:HG21	45:GA:331:SER:HB3	1.86	0.56
46:GB:198:GLU:HG2	46:GB:266:PHE:HE2	1.71	0.56
46:HB:87:PRO:HA	46:HB:90:PHE:HD2	1.71	0.56
46:HB:235:GLY:HA2	46:HB:318:ARG:NH1	2.21	0.56
45:HC:71:GLU:HA	46:HD:2:ARG:HH22	1.70	0.56
45:HE:171:ILE:O	45:HE:171:ILE:HG13	2.05	0.56
46:HF:3:GLU:CD	46:HF:3:GLU:H	2.09	0.56
45:IC:254:GLU:HG2	46:IF:98:GLY:HA2	1.87	0.56
46:ID:99:ASN:HA	46:ID:142:GLY:HA3	1.88	0.56
46:IH:25:SER:OG	46:IH:30:ILE:O	2.23	0.56
45:IK:88:HIS:CE1	45:IK:90:GLU:HG3	2.41	0.56
46:IN:28:HIS:C	46:IN:43:GLN:HE21	2.09	0.56
46:IN:156:ARG:NH2	46:IN:197:ASP:OD2	2.34	0.56
46:JD:73:MET:HA	46:JD:76:VAL:HG12	1.88	0.56
46:JH:410:GLU:OE1	46:NH:340:TYR:OH	2.11	0.56
45:JM:242:LEU:HD11	45:JM:252:ILE:HG23	1.86	0.56
45:KC:210:TYR:CE1	45:KC:227:LEU:HD21	2.41	0.56
46:KH:11:GLN:NE2	49:KH:501:GDP:O1A	2.39	0.56
46:KH:239:CYS:SG	46:KH:247:ASN:HA	2.46	0.56
46:KL:107:THR:OG1	46:KL:108:GLU:OE1	2.22	0.56
46:KN:51:TYR:HB3	46:KN:59:TYR:HB3	1.86	0.56
45:LC:103:PHE:HB2	45:LC:186:ASN:HB3	1.86	0.56
46:LF:316:LEU:HD13	46:LF:352:SER:HB2	1.87	0.56
46:LJ:5:VAL:HG12	46:LJ:62:ARG:HD3	1.88	0.56
46:LN:97:ALA:HB2	46:LN:143:THR:HB	1.87	0.56
46:LN:208:TYR:CE1	46:LN:225:LEU:HD21	2.40	0.56
46:MB:101:TRP:HB2	46:MB:184:ASN:HB3	1.87	0.56
46:MJ:49:VAL:HG21	46:MJ:241:ARG:HG2	1.87	0.56
45:NA:49:PHE:HB2	45:NA:53:PHE:HB2	1.87	0.56
46:ND:232:ALA:HB1	46:ND:268:ILE:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:271:SER:OG	45:NG:301:MET:SD	2.64	0.56
46:NN:67:ASP:O	46:NN:92:PHE:HA	2.05	0.56
46:OD:174:LYS:HB3	46:OD:205:GLU:OE2	2.06	0.56
46:ON:379:LYS:O	46:ON:383:GLU:HG2	2.05	0.56
45:PA:174:SER:HB2	45:PA:177:VAL:O	2.05	0.56
45:PE:5:ILE:HD11	45:PE:135:PHE:CE2	2.41	0.56
45:PI:205:ASP:OD2	45:PI:303:ALA:HA	2.05	0.56
46:PN:41:ASP:OD1	46:PN:42:LEU:N	2.39	0.56
45:QI:352:LYS:HE2	46:QJ:179:VAL:HG13	1.88	0.56
45:RA:223:THR:H	45:RA:226:ASN:ND2	2.04	0.56
45:RA:254:GLU:OE1	45:RA:257:THR:OG1	2.16	0.56
46:RD:334:GLN:HA	46:RD:341:PHE:HE1	1.69	0.56
45:RK:205:ASP:OD2	45:RK:303:ALA:HA	2.06	0.56
45:RK:288:VAL:HA	45:RK:291:ILE:HG12	1.88	0.56
45:SG:220:GLU:OE2	45:SG:221:ARG:NE	2.38	0.56
45:SK:75:ILE:HG12	45:SK:79:ARG:NH1	2.20	0.56
45:TI:56:THR:OG1	45:UI:282:TYR:O	2.23	0.56
45:TI:326:LYS:HG2	46:TJ:220:PRO:HD2	1.87	0.56
46:TJ:226:ASN:HD21	49:TJ:501:GDP:HN1	1.51	0.56
46:UB:248:SER:HA	46:UB:252:LYS:HD2	1.88	0.56
45:UE:111:GLY:O	45:UE:115:VAL:HG13	2.05	0.56
45:UE:346:TRP:CD1	46:UF:391:ARG:HG3	2.41	0.56
46:UH:86:ARG:HD3	46:UH:87:PRO:HD2	1.88	0.56
46:UN:139:LEU:HD22	46:UN:170:VAL:HG12	1.88	0.56
45:VA:286:LEU:O	45:VA:373:ARG:NH2	2.39	0.56
45:VA:346:TRP:CD1	46:VD:391:ARG:HG3	2.40	0.56
46:VD:64:ILE:HA	46:VD:89:ASN:HB3	1.87	0.56
46:VD:332:ASN:O	46:VD:336:LYS:HG2	2.05	0.56
46:VH:226:ASN:HD21	49:VH:501:GDP:HN1	1.53	0.56
45:WA:80:THR:O	45:WA:84:ARG:NH2	2.34	0.56
46:WB:221:THR:HG23	46:WB:224:ASP:H	1.71	0.56
45:WC:265:ILE:HG22	45:WC:380:ASN:HD21	1.71	0.56
46:WH:156:ARG:NH1	46:WH:195:ASN:O	2.39	0.56
45:CE:140:SER:OG	47:CE:501:GTP:O2B	2.24	0.56
7:0G:91:VAL:HG13	46:JN:279:GLN:HB3	1.86	0.56
20:1K:158:THR:HG22	45:GC:370:LYS:HZ2	1.71	0.56
37:5E:95:ASP:O	37:5E:98:LYS:HG3	2.06	0.56
37:5G:67:ARG:HD2	37:5G:68:PRO:O	2.05	0.56
10:5Q:48:GLU:HG3	10:5Q:161:ARG:HG2	1.88	0.56
34:6R:247:LYS:NZ	34:6R:283:ASP:OD2	2.30	0.56
34:6R:450:ASP:OD1	34:6R:452:THR:OG1	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AG:18:ASN:OD1	45:AG:19:ALA:N	2.39	0.56
46:AN:6:HIS:NE2	46:AN:8:GLN:OE1	2.39	0.56
46:AN:156:ARG:NH2	46:AN:197:ASP:OD2	2.38	0.56
46:BF:73:MET:HA	46:BF:76:VAL:HG22	1.86	0.56
46:BF:139:LEU:HD13	46:BF:168:SER:HB3	1.86	0.56
46:BF:178:THR:HB	46:BF:181:GLU:HG3	1.88	0.56
45:BG:209:ILE:HA	45:BG:212:ILE:HG22	1.87	0.56
45:BI:76:ASP:OD2	46:BJ:46:ARG:NH2	2.39	0.56
46:CF:282:ARG:NH2	46:CF:292:GLN:OE1	2.29	0.56
45:DA:135:PHE:HB2	45:DA:166:LYS:HG2	1.87	0.56
46:DH:375:GLN:HG3	46:DH:419:VAL:HG13	1.87	0.56
45:DI:7:ILE:HB	45:DI:137:VAL:HG12	1.87	0.56
45:DI:326:LYS:NZ	46:DJ:220:PRO:O	2.31	0.56
46:DL:158:GLU:HG3	46:DL:159:TYR:CD1	2.41	0.56
45:EE:306:ASP:OD1	45:EE:308:ARG:NE	2.34	0.56
46:EF:183:TYR:CE2	46:EF:388:MET:HB3	2.39	0.56
46:EN:386:THR:OG1	46:EN:390:ARG:NH2	2.38	0.56
46:FB:67:ASP:O	46:FB:92:PHE:HA	2.05	0.56
45:FI:88:HIS:HB3	45:FI:91:GLN:HG2	1.88	0.56
45:GE:398:MET:HG2	46:GF:345:ILE:HG22	1.86	0.56
46:GF:7:ILE:HG23	46:GF:135:ILE:HD13	1.87	0.56
46:GN:385:PHE:HE2	46:GN:412:GLU:HB3	1.71	0.56
45:HA:346:TRP:CD1	46:HD:391:ARG:HG3	2.41	0.56
45:HE:399:TYR:O	45:HE:402:ARG:NH1	2.39	0.56
46:HN:318:ARG:HB3	46:HN:357:PRO:HA	1.88	0.56
46:IB:6:HIS:O	46:IB:63:ALA:HA	2.05	0.56
46:IB:138:SER:HA	46:IB:169:VAL:HB	1.88	0.56
45:IC:54:SER:HB3	45:IC:64:ARG:HH21	1.70	0.56
46:ID:304:ASP:HB3	46:ID:307:HIS:HB2	1.88	0.56
45:IE:175:PRO:HB2	45:IE:176:GLN:OE1	2.06	0.56
45:JC:141:VAL:HG11	45:JC:172:TYR:CD1	2.40	0.56
45:JK:308:ARG:NH1	45:JK:340:THR:HG22	2.21	0.56
45:KE:88:HIS:CD2	45:KE:90:GLU:HG2	2.40	0.56
45:KI:328:VAL:O	45:KI:332:ILE:HG12	2.05	0.56
46:KN:213:ARG:NH1	46:KN:297:LYS:HE2	2.20	0.56
46:LL:33:THR:O	46:LL:58:ARG:NH2	2.39	0.56
46:LN:67:ASP:OD1	46:LN:68:LEU:N	2.38	0.56
46:MB:119:VAL:HA	46:MB:122:LYS:HE2	1.87	0.56
46:NB:350:LYS:HE3	46:NB:350:LYS:HA	1.87	0.56
45:OA:210:TYR:CZ	46:OB:324:LYS:HG2	2.41	0.56
45:OE:89:PRO:HG3	45:PE:280:LYS:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OH:214:THR:O	46:OH:275:SER:OG	2.16	0.56
46:ON:6:HIS:CD2	46:ON:134:GLN:HE21	2.17	0.56
45:PA:193:SER:O	45:PA:197:HIS:ND1	2.37	0.56
46:PF:222:TYR:O	46:PF:226:ASN:ND2	2.25	0.56
45:PK:98:ASP:O	45:PK:105:ARG:NH1	2.38	0.56
45:QA:140:SER:OG	47:QA:501:GTP:O2B	2.24	0.56
46:QB:86:ARG:HH22	46:RB:280:GLN:NE2	2.04	0.56
46:QB:390:ARG:HD2	46:QB:391:ARG:HG2	1.87	0.56
46:QD:190:HIS:CE1	46:QD:414:ASN:HD22	2.23	0.56
45:QE:89:PRO:HD2	45:RE:280:LYS:HE3	1.87	0.56
46:QH:309:ARG:NH2	46:QH:426:GLN:O	2.32	0.56
46:QL:309:ARG:NH2	46:QL:426:GLN:O	2.35	0.56
45:RC:124:LYS:NZ	45:SC:294:SER:OG	2.28	0.56
45:RG:206:ASN:OD1	47:RG:501:GTP:N2	2.39	0.56
45:RM:66:VAL:HG11	45:RM:122:ILE:HD11	1.87	0.56
45:RM:117:LEU:O	45:RM:121:ARG:HG2	2.06	0.56
45:RM:284:GLU:HG3	45:RM:286:LEU:HD22	1.86	0.56
45:SA:60:LYS:NZ	45:SA:85:GLN:O	2.28	0.56
46:SD:258:ILE:HG13	45:SE:407:TRP:HZ2	1.70	0.56
45:SE:389:SER:O	45:SE:393:HIS:ND1	2.33	0.56
46:SN:207:LEU:HB3	46:SN:225:LEU:HD22	1.87	0.56
45:TC:75:ILE:HD12	45:TC:92:LEU:HB3	1.88	0.56
46:TD:55:THR:HG23	46:UD:283:ALA:HA	1.88	0.56
46:TL:32:PRO:O	46:TL:83:GLN:NE2	2.38	0.56
46:TL:423:GLN:NE2	46:TL:427:ASP:OD2	2.35	0.56
45:TM:119:LEU:O	45:TM:123:ARG:HG2	2.06	0.56
46:UB:316:LEU:O	46:UB:365:VAL:HA	2.06	0.56
46:VD:282:ARG:NH2	46:VD:292:GLN:OE1	2.38	0.56
45:VI:88:HIS:HA	45:WI:280:LYS:HZ3	1.70	0.56
45:VK:21:TRP:CZ2	45:VK:65:ALA:HB2	2.41	0.56
45:WC:280:LYS:HE3	45:WC:283:HIS:HB2	1.87	0.56
46:WF:8:GLN:OE1	46:WF:14:ASN:ND2	2.38	0.56
46:WF:327:ASP:OD1	46:WF:328:GLU:N	2.38	0.56
46:WH:335:ASN:OD1	46:WH:336:LYS:N	2.39	0.56
46:WJ:266:PHE:CE1	46:WJ:370:ASN:HB2	2.40	0.56
46:WL:418:LEU:O	46:WL:422:TYR:HB2	2.05	0.56
45:CE:296:PHE:HE1	45:CE:377:MET:HG3	1.71	0.56
4:0D:225:ARG:CZ	34:7R:598:TRP:HB3	2.35	0.56
23:1O:266:GLU:HB3	45:UA:282:TYR:CE1	2.40	0.56
27:2C:220:LYS:NZ	45:KI:367:ASP:OD1	2.38	0.56
37:5F:54:LYS:HG2	46:OF:227:HIS:CG	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5H:87:LEU:HD22	37:5H:92:GLN:HB3	1.87	0.56
10:5Q:22:LEU:HB2	10:5Q:25:TRP:HB2	1.88	0.56
34:6R:430:LEU:HD22	34:6R:442:PHE:CE1	2.41	0.56
45:AC:115:VAL:HG11	45:AC:152:LEU:HD23	1.88	0.56
45:AG:101:ASN:HA	45:AG:144:GLY:H	1.71	0.56
46:AH:207:LEU:HD13	46:AH:225:LEU:HB3	1.86	0.56
46:BD:58:ARG:NH2	46:CB:281:TYR:HD2	2.04	0.56
45:BE:145:THR:OG1	47:BE:501:GTP:O1B	2.24	0.56
46:BJ:107:THR:HG23	46:BJ:401:GLU:OE1	2.06	0.56
45:CA:133:GLN:HB3	45:CA:252:ILE:HG21	1.86	0.56
46:CD:310:TYR:HE2	46:CD:367:PHE:HZ	1.53	0.56
46:CH:173:PRO:HD2	46:CH:380:ARG:HH11	1.70	0.56
45:CI:54:SER:HB3	45:CI:64:ARG:HH21	1.69	0.56
46:CL:229:VAL:O	46:CL:233:MET:HG2	2.06	0.56
46:DB:63:ALA:O	46:DB:89:ASN:ND2	2.38	0.56
46:DJ:92:PHE:HD1	46:DJ:94:GLN:HE22	1.53	0.56
45:EA:242:LEU:HD11	45:EA:252:ILE:HG13	1.87	0.56
45:EM:91:GLN:HG2	45:EM:121:ARG:HE	1.70	0.56
45:FG:141:VAL:HG11	45:FG:172:TYR:HD1	1.71	0.56
45:FI:284:GLU:HG2	45:FI:286:LEU:HD12	1.87	0.56
46:FJ:294:PHE:CD1	46:FJ:333:VAL:HG11	2.41	0.56
45:GC:238:LEU:HD21	45:GC:255:PHE:HE2	1.71	0.56
45:GC:298:PRO:HA	45:GC:301:MET:HE1	1.87	0.56
46:GJ:67:ASP:OD1	46:GJ:68:LEU:N	2.39	0.56
45:GK:2:ARG:HB2	45:GK:133:GLN:HE22	1.70	0.56
45:HC:328:VAL:HG11	45:HC:353:VAL:HG21	1.88	0.56
45:HI:217:LEU:HB3	45:HI:219:ILE:HG13	1.88	0.56
45:HI:226:ASN:ND2	45:HI:367:ASP:OD2	2.39	0.56
46:HJ:73:MET:HA	46:HJ:76:VAL:HG12	1.87	0.56
46:IN:99:ASN:HA	46:IN:142:GLY:H	1.71	0.56
45:KE:214:ARG:HH21	45:KE:215:ARG:NH2	2.04	0.56
45:KI:244:PHE:HB2	45:KI:356:ASN:HD21	1.69	0.56
45:KK:239:THR:HG22	45:KK:243:ARG:HE	1.69	0.56
46:LH:190:HIS:NE2	46:LH:410:GLU:OE1	2.39	0.56
45:NA:74:VAL:O	45:NA:78:VAL:HG23	2.05	0.56
45:NE:141:VAL:HG11	45:NE:172:TYR:CD1	2.40	0.56
45:NG:239:THR:OG1	45:NG:243:ARG:NH2	2.35	0.56
46:NH:148:GLY:O	46:NH:152:ILE:HD12	2.06	0.56
45:OE:329:ASN:HD22	46:OH:208:TYR:HE2	1.53	0.56
46:OL:96:GLY:O	46:OL:103:LYS:NZ	2.38	0.56
46:OL:150:LEU:O	46:OL:154:LYS:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OM:139:ASN:ND2	45:OM:146:GLY:O	2.36	0.56
46:QH:207:LEU:HB3	46:QH:225:LEU:HD22	1.88	0.56
45:QM:208:ALA:O	45:QM:212:ILE:HG12	2.06	0.56
45:RA:284:GLU:HG2	45:RA:286:LEU:HD22	1.87	0.56
46:RD:74:ASP:OD1	46:RD:77:ARG:NH2	2.32	0.56
46:SD:63:ALA:O	46:SD:89:ASN:ND2	2.35	0.56
45:SK:83:TYR:HB3	45:SK:86:LEU:HD12	1.87	0.56
46:SL:346:PRO:HD2	45:SM:398:MET:HE1	1.87	0.56
46:TB:334:GLN:HA	46:TB:341:PHE:CE2	2.39	0.56
45:TE:249:ASN:OD1	46:TF:11:GLN:NE2	2.21	0.56
46:TH:167:PHE:CZ	46:TH:233:MET:HG2	2.41	0.56
46:TJ:83:GLN:O	46:UJ:281:TYR:OH	2.24	0.56
45:TK:408:TYR:HB3	45:TK:413:MET:HG3	1.87	0.56
46:TL:164:MET:HB2	46:TL:197:ASP:H	1.71	0.56
46:UD:6:HIS:O	46:UD:63:ALA:HA	2.04	0.56
46:UD:318:ARG:HH21	46:UD:356:ILE:HG23	1.71	0.56
45:UG:212:ILE:HD11	45:UG:300:ASN:HA	1.88	0.56
46:UH:2:ARG:HH21	45:UI:72:PRO:HD3	1.71	0.56
45:VA:384:ILE:O	45:VA:387:VAL:HG22	2.06	0.56
45:VC:164:LYS:O	45:VC:166:LYS:NZ	2.39	0.56
46:VD:198:GLU:HB2	46:VD:266:PHE:CE2	2.41	0.56
45:VE:265:ILE:HG22	45:VE:380:ASN:HD21	1.71	0.56
45:WC:111:GLY:O	45:WC:115:VAL:HG13	2.06	0.56
4:0D:185:ASN:O	46:FB:320:ARG:NH1	2.37	0.56
8:1H:90:ARG:NH2	45:HK:282:TYR:HE1	2.04	0.56
20:1K:165:GLN:HE22	45:GC:369:ALA:HA	1.71	0.56
11:1S:312:THR:HA	45:AE:402:ARG:HG3	1.87	0.56
14:1V:70:THR:HB	46:MJ:337:ASN:HD21	1.71	0.56
14:2V:72:GLY:HA2	46:MF:340:TYR:CE1	2.39	0.56
10:4Q:102:ARG:HE	45:AI:430:LYS:HZ1	1.52	0.56
36:5B:146:VAL:HG11	45:NG:225:THR:HG21	1.88	0.56
37:5E:78:LEU:HD21	37:5E:97:ARG:HG2	1.87	0.56
34:7R:131:GLU:OE1	34:7R:141:GLN:NE2	2.39	0.56
46:AD:103:LYS:HA	46:AD:107:THR:HG22	1.86	0.56
46:AJ:148:GLY:O	46:AJ:152:ILE:HG12	2.05	0.56
46:AJ:292:GLN:HG2	46:AJ:298:ASN:HD21	1.71	0.56
46:AL:167:PHE:CE2	46:AL:233:MET:HG2	2.41	0.56
46:AL:362:LYS:HG2	46:AL:363:MET:HG2	1.88	0.56
46:BB:248:SER:HA	46:BB:252:LYS:HD2	1.88	0.56
45:CA:76:ASP:OD1	45:CA:79:ARG:NH2	2.39	0.56
45:CG:212:ILE:HD13	45:CG:215:ARG:NH2	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CM:242:LEU:HD11	45:CM:252:ILE:HG13	1.88	0.56
46:CN:211:CYS:HA	46:CN:215:LEU:HD12	1.88	0.56
46:DD:109:GLY:O	46:DD:113:ILE:HG23	2.06	0.56
46:EB:244:GLY:HA3	46:EB:354:CYS:HA	1.87	0.56
46:ED:121:ARG:HH22	46:FD:336:LYS:HE3	1.70	0.56
45:EG:136:LEU:HD13	45:EG:167:LEU:HB2	1.87	0.56
46:EH:8:GLN:HE22	46:EH:14:ASN:HA	1.71	0.56
46:EJ:8:GLN:NE2	46:EJ:17:GLY:HA3	2.20	0.56
45:FG:184:PRO:O	45:FG:188:ILE:HG12	2.05	0.56
45:FI:263:PRO:HD3	46:FL:396:HIS:NE2	2.20	0.56
46:GJ:166:THR:HG21	46:GJ:192:LEU:HD11	1.88	0.56
46:GL:208:TYR:CE1	46:GL:225:LEU:HD11	2.41	0.56
45:HC:69:ASP:OD1	45:HC:70:LEU:N	2.38	0.56
46:HJ:97:ALA:HB3	46:HJ:143:THR:HB	1.87	0.56
45:JC:272:TYR:HD2	45:JC:275:ILE:HD11	1.71	0.56
45:JG:210:TYR:HE1	45:JG:227:LEU:HD21	1.71	0.56
45:JK:250:VAL:HG13	45:JK:254:GLU:HB2	1.87	0.56
45:JM:21:TRP:CZ3	45:JM:63:PRO:HB3	2.41	0.56
45:KA:296:PHE:HE1	45:KA:335:ILE:HG21	1.70	0.56
45:KI:226:ASN:ND2	45:KI:367:ASP:OD2	2.39	0.56
45:KM:224:TYR:HD1	47:KM:501:GTP:C6	2.24	0.56
45:LE:118:CYS:O	45:LE:122:ILE:HG12	2.05	0.56
46:MD:309:ARG:NH2	46:MD:426:GLN:O	2.37	0.56
46:MH:60:VAL:HG21	46:MH:86:ARG:HG2	1.87	0.56
45:MM:209:ILE:HD12	45:MM:227:LEU:HB3	1.87	0.56
45:NC:417:GLU:HA	45:NC:420:GLU:OE2	2.06	0.56
45:NM:32:PRO:HB3	45:NM:83:TYR:CE1	2.41	0.56
45:OA:286:LEU:HD13	45:OA:371:VAL:HG13	1.87	0.56
45:OC:288:VAL:HG13	45:OC:373:ARG:HH11	1.71	0.56
45:OE:209:ILE:HA	45:OE:212:ILE:HG22	1.88	0.56
46:OH:150:LEU:O	46:OH:154:LYS:HG2	2.06	0.56
45:OI:174:SER:HB2	45:OI:177:VAL:HB	1.88	0.56
45:PA:265:ILE:HG22	45:PA:380:ASN:HD21	1.71	0.56
46:PD:87:PRO:HA	46:PD:90:PHE:HD2	1.70	0.56
46:PL:156:ARG:NH1	46:PL:159:TYR:O	2.39	0.56
45:PM:90:GLU:O	45:PM:121:ARG:NH1	2.38	0.56
45:PM:108:TYR:HE2	45:PM:413:MET:HB3	1.70	0.56
45:QG:66:VAL:HG21	45:QG:122:ILE:HD11	1.87	0.56
46:RB:132:GLY:HA3	46:RB:163:ILE:HG22	1.88	0.56
46:RF:8:GLN:HE22	46:RF:17:GLY:HA3	1.70	0.56
45:SA:211:ASP:HB3	45:SA:215:ARG:NH1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:207:LEU:HD22	46:SB:300:MET:HB2	1.88	0.56
46:SF:310:TYR:HD1	46:SF:371:SER:HB2	1.71	0.56
45:SK:68:LEU:HD13	45:SK:93:ILE:HB	1.87	0.56
46:TB:97:ALA:HB3	46:TB:143:THR:HB	1.88	0.56
46:TH:207:LEU:HB3	46:TH:225:LEU:HD22	1.88	0.56
46:TH:341:PHE:HB3	46:TH:348:ASN:HD21	1.71	0.56
45:UG:184:PRO:O	45:UG:188:ILE:HG12	2.06	0.56
46:UJ:215:LEU:HB3	46:UJ:217:LEU:HD23	1.88	0.56
45:UM:88:HIS:HB3	45:UM:91:GLN:HG2	1.87	0.56
45:UM:226:ASN:ND2	45:UM:367:ASP:OD2	2.38	0.56
46:VH:290:THR:HA	46:VH:293:MET:HG3	1.87	0.56
45:VM:221:ARG:NH2	46:VN:321:MET:HB2	2.20	0.56
46:VN:282:ARG:NH2	46:VN:292:GLN:OE1	2.36	0.56
45:WC:133:GLN:HG2	45:WC:252:ILE:HB	1.87	0.56
46:WJ:282:ARG:NH2	46:WJ:288:GLU:OE2	2.38	0.56
46:WN:8:GLN:HE22	46:WN:14:ASN:ND2	2.03	0.56
46:WN:299:MET:HE1	46:WN:305:PRO:HD3	1.88	0.56
45:CE:335:ILE:HA	45:CE:338:LYS:HZ3	1.71	0.56
9:1N:247:GLN:N	45:KG:46:ASP:OD1	2.39	0.56
24:1P:226:HIS:NE2	45:TG:278:ALA:O	2.38	0.56
23:2O:405:GLU:OE1	46:VD:276:ARG:NH2	2.39	0.56
15:4X:65:ASN:HA	15:4X:68:ARG:NH1	2.21	0.56
46:AB:213:ARG:CZ	46:AB:213:ARG:HA	2.36	0.56
45:BC:89:PRO:HD2	45:CC:283:HIS:HD1	1.71	0.56
45:BC:184:PRO:O	45:BC:188:ILE:HG12	2.06	0.56
46:BL:245:GLN:HA	46:BL:245:GLN:NE2	2.21	0.56
46:BN:86:ARG:NH1	46:CL:277:GLY:O	2.39	0.56
46:BN:97:ALA:HB3	46:BN:143:THR:HB	1.86	0.56
45:CC:231:ILE:O	45:CC:235:ILE:HG12	2.06	0.56
45:DE:5:ILE:HD12	45:DE:135:PHE:HE1	1.69	0.56
45:DE:326:LYS:HG3	45:DE:327:ASP:N	2.21	0.56
46:DJ:286:VAL:HG12	46:DJ:329:GLN:NE2	2.20	0.56
45:DK:206:ASN:OD1	47:DK:501:GTP:N2	2.38	0.56
46:EB:325:GLU:N	46:EB:325:GLU:OE2	2.36	0.56
45:EC:230:LEU:HD13	45:EC:233:GLN:NE2	2.21	0.56
45:EC:251:ASP:OD1	45:EC:252:ILE:N	2.39	0.56
46:ED:309:ARG:NH2	46:ED:426:GLN:O	2.39	0.56
46:EL:5:VAL:HG12	46:EL:62:ARG:HD3	1.87	0.56
46:EL:52:ASN:OD1	46:EL:62:ARG:NH2	2.39	0.56
46:FB:178:THR:HB	46:FB:181:GLU:HG3	1.88	0.56
46:FH:289:LEU:HD11	46:FH:363:MET:HG3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FJ:117:LEU:HA	46:FJ:120:VAL:HG12	1.87	0.56
46:FN:313:ALA:HB3	46:FN:349:ILE:HG12	1.88	0.56
46:GB:91:VAL:HG21	46:GB:116:VAL:HB	1.88	0.56
45:GG:362:VAL:HB	45:GG:370:LYS:HB3	1.86	0.56
46:HN:135:ILE:HG13	46:HN:152:ILE:HD11	1.88	0.56
46:ID:6:HIS:O	46:ID:63:ALA:HA	2.06	0.56
46:ID:136:THR:HA	46:ID:167:PHE:HB2	1.87	0.56
46:IJ:22:GLU:OE1	46:IJ:22:GLU:N	2.38	0.56
45:IM:183:GLU:OE2	45:IM:183:GLU:N	2.32	0.56
46:IN:399:THR:HA	46:IN:403:MET:HB2	1.88	0.56
45:JG:206:ASN:OD1	47:JG:501:GTP:N2	2.33	0.56
45:JK:335:ILE:HA	45:JK:338:LYS:NZ	2.21	0.56
46:JN:309:ARG:NH2	46:JN:426:GLN:O	2.36	0.56
46:KL:109:GLY:HA2	46:KL:147:MET:HE2	1.88	0.56
45:KM:180:ALA:HA	46:KN:350:LYS:HD3	1.87	0.56
45:LC:98:ASP:O	45:LC:105:ARG:NH1	2.39	0.56
46:LJ:31:ASP:OD1	46:LJ:35:THR:N	2.35	0.56
46:MJ:293:MET:HE3	46:MJ:367:PHE:HD1	1.71	0.56
45:NC:100:ALA:HA	46:ND:252:LYS:HE2	1.87	0.56
45:NC:105:ARG:NH2	45:NC:411:GLU:OE2	2.38	0.56
45:NE:2:ARG:HD3	45:NE:2:ARG:H	1.71	0.56
45:NG:226:ASN:ND2	45:NG:367:ASP:OD2	2.38	0.56
45:NI:181:VAL:HG12	46:NJ:350:LYS:HZ1	1.70	0.56
46:OB:316:LEU:HD13	46:OB:352:SER:HB2	1.87	0.56
45:OI:136:LEU:HD23	45:OI:167:LEU:HB2	1.88	0.56
45:OM:7:ILE:HB	45:OM:137:VAL:HG12	1.86	0.56
46:PF:268:ILE:HG13	46:PF:300:MET:HG3	1.88	0.56
45:PG:107:HIS:HA	45:PG:152:LEU:HD11	1.87	0.56
45:PK:326:LYS:HE2	46:PN:220:PRO:CD	2.35	0.56
46:QB:293:MET:HE2	46:QB:365:VAL:HG12	1.88	0.56
46:QD:50:TYR:HE2	46:QD:241:ARG:HE	1.52	0.56
45:QK:356:ASN:OD1	45:QK:357:TYR:N	2.38	0.56
45:RC:210:TYR:HE1	45:RC:227:LEU:HD11	1.70	0.56
46:RL:116:VAL:HA	46:RL:119:VAL:HG12	1.87	0.56
45:RM:185:TYR:HH	45:RM:399:TYR:HD2	1.54	0.56
46:SD:347:ASN:ND2	45:SE:176:GLN:O	2.38	0.56
45:SK:85:GLN:OE1	45:SK:85:GLN:N	2.30	0.56
45:TC:408:TYR:HD2	45:TC:418:PHE:HZ	1.52	0.56
46:TD:418:LEU:HA	46:TD:421:GLU:HG3	1.87	0.56
45:TE:338:LYS:HZ2	45:TE:340:THR:H	1.53	0.56
46:TF:113:ILE:HG21	46:TF:150:LEU:HD22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TH:289:LEU:HD23	46:TH:365:VAL:HG23	1.88	0.56
46:TH:322:SER:OG	46:TH:325:GLU:OE2	2.24	0.56
46:UB:87:PRO:HA	46:UB:90:PHE:HD2	1.71	0.56
46:UD:148:GLY:O	46:UD:152:ILE:HG12	2.06	0.56
45:UE:251:ASP:OD1	45:UE:252:ILE:N	2.37	0.56
46:UF:285:THR:HB	46:UF:287:PRO:HD2	1.87	0.56
45:UI:319:TYR:HB3	45:UI:323:VAL:HG21	1.88	0.56
46:UJ:128:ASP:OD1	46:UJ:129:CYS:N	2.39	0.56
45:VA:260:VAL:HG13	46:VD:397:TRP:HZ2	1.71	0.56
45:VE:358:GLN:NE2	45:VE:359:PRO:O	2.37	0.56
45:VK:391:LEU:HD22	45:VK:394:LYS:HZ1	1.71	0.56
45:WC:222:PRO:HG2	46:WD:324:LYS:HG2	1.86	0.56
45:WK:324:VAL:HG12	45:WK:326:LYS:H	1.71	0.56
45:WM:119:LEU:HB3	45:WM:123:ARG:HH12	1.71	0.56
6:OF:53:ALA:HB2	45:EE:279:GLU:CD	2.26	0.55
23:IO:266:GLU:O	45:UA:282:TYR:CZ	2.59	0.55
10:IQ:31:ASN:O	35:4S:197:ARG:NH2	2.39	0.55
30:3H:187:LEU:HD12	46:AH:279:GLN:HB3	1.88	0.55
34:4R:565:ASP:OD2	34:4R:567:ASN:ND2	2.38	0.55
37:5F:151:GLU:HG3	37:5G:11:TRP:CZ2	2.41	0.55
10:6Q:102:ARG:CZ	45:AM:430:LYS:HZ1	2.19	0.55
45:AC:141:VAL:HG11	45:AC:172:TYR:CD1	2.41	0.55
46:AD:67:ASP:OD1	46:AD:68:LEU:N	2.39	0.55
45:BE:76:ASP:OD2	46:BF:46:ARG:NH2	2.40	0.55
46:BH:3:GLU:HG3	46:BH:49:VAL:O	2.06	0.55
46:CF:211:CYS:SG	46:CF:220:PRO:HG3	2.46	0.55
46:DB:189:VAL:O	46:DB:193:VAL:HG13	2.07	0.55
45:DE:76:ASP:HA	45:DE:79:ARG:HG2	1.88	0.55
45:DK:195:LEU:HD21	45:DK:264:ARG:HH21	1.71	0.55
45:DK:346:TRP:CD1	46:DL:391:ARG:HG3	2.41	0.55
46:DL:67:ASP:O	46:DL:92:PHE:HA	2.06	0.55
45:DM:135:PHE:HB2	45:DM:166:LYS:HG2	1.86	0.55
46:EH:274:THR:HB	46:EH:282:ARG:NH2	2.21	0.55
46:EN:318:ARG:HB2	46:EN:364:ALA:HB3	1.87	0.55
45:FI:276:ILE:HG13	45:FI:280:LYS:HE2	1.88	0.55
45:GE:282:TYR:OH	45:GE:370:LYS:O	2.10	0.55
46:GH:67:ASP:HB2	46:GH:73:MET:HE2	1.86	0.55
46:GH:294:PHE:HE2	46:GH:333:VAL:HG11	1.71	0.55
46:GL:290:THR:HA	46:GL:293:MET:HG2	1.88	0.55
46:HL:22:GLU:HA	46:HL:81:PHE:HD1	1.71	0.55
46:ID:42:LEU:HA	46:ID:45:GLU:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IH:20:PHE:HA	46:IH:230:SER:HB2	1.88	0.55
46:IL:133:PHE:HB2	46:IL:164:MET:HG3	1.88	0.55
45:IM:136:LEU:HD13	45:IM:167:LEU:HB2	1.87	0.55
45:IM:231:ILE:O	45:IM:235:ILE:HG12	2.06	0.55
45:JA:31:GLN:HE22	45:JA:37:PRO:HG3	1.70	0.55
45:JC:287:SER:HA	45:JC:373:ARG:HH21	1.70	0.55
45:JE:317:MET:HB3	45:JE:377:MET:HG2	1.88	0.55
45:JG:72:PRO:HD2	46:JH:2:ARG:NH2	2.19	0.55
46:KB:133:PHE:HB2	46:KB:164:MET:HG3	1.88	0.55
45:KE:2:ARG:HH21	45:KE:243:ARG:HA	1.71	0.55
46:KL:263:LEU:HG	46:KL:422:TYR:CE1	2.42	0.55
45:LA:430:LYS:HA	45:LA:430:LYS:HE2	1.87	0.55
45:LK:176:GLN:NE2	45:LK:207:GLU:OE1	2.38	0.55
45:LM:210:TYR:HH	46:LN:323:THR:HG1	1.45	0.55
46:MD:229:VAL:HG12	46:MD:233:MET:HE1	1.87	0.55
45:ME:362:VAL:HB	45:ME:370:LYS:HB3	1.88	0.55
45:MI:276:ILE:HD11	45:MI:280:LYS:HD2	1.87	0.55
46:MJ:6:HIS:NE2	46:MJ:8:GLN:OE1	2.39	0.55
45:MM:88:HIS:HB3	45:MM:91:GLN:HG2	1.88	0.55
46:MN:73:MET:HA	46:MN:76:VAL:HG12	1.87	0.55
45:NC:109:THR:HG22	45:NC:110:ILE:HG23	1.88	0.55
45:NG:141:VAL:HG22	45:NG:187:SER:HA	1.88	0.55
45:NI:220:GLU:HG2	45:NI:221:ARG:HD2	1.87	0.55
45:NM:271:SER:HB2	45:NM:377:MET:HG2	1.88	0.55
45:OA:322:ASP:OD1	45:OA:373:ARG:NH1	2.39	0.55
46:OB:226:ASN:ND2	49:OB:501:GDP:HN1	2.01	0.55
45:OC:416:GLY:O	45:OC:419:SER:N	2.39	0.55
45:OG:141:VAL:HG22	45:OG:187:SER:HA	1.87	0.55
46:OL:398:TYR:O	46:OL:403:MET:HB2	2.06	0.55
46:PB:268:ILE:HG22	46:PB:368:VAL:HG22	1.86	0.55
46:PD:309:ARG:NH2	46:PD:426:GLN:O	2.34	0.55
45:PE:242:LEU:HD11	45:PE:252:ILE:HG12	1.88	0.55
46:PH:221:THR:HG23	46:PH:224:ASP:H	1.70	0.55
46:PJ:7:ILE:HG22	46:PJ:64:ILE:HB	1.88	0.55
46:PN:140:GLY:HA2	46:PN:181:GLU:OE1	2.06	0.55
45:QA:254:GLU:HG2	46:QB:98:GLY:HA2	1.88	0.55
45:QA:346:TRP:CD1	46:QB:391:ARG:HG3	2.41	0.55
46:QH:289:LEU:HD13	46:QH:365:VAL:HG23	1.88	0.55
46:QJ:229:VAL:O	46:QJ:233:MET:HG2	2.06	0.55
46:RD:323:THR:HG1	45:RE:210:TYR:HH	1.50	0.55
46:RF:67:ASP:O	46:RF:92:PHE:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RH:334:GLN:HA	46:RH:341:PHE:HE2	1.71	0.55
45:SE:69:ASP:OD1	45:SE:70:LEU:N	2.38	0.55
45:SE:402:ARG:HG3	45:SE:402:ARG:O	2.05	0.55
45:SG:275:ILE:HA	45:SG:368:LEU:HD11	1.88	0.55
46:TB:87:PRO:HA	46:TB:90:PHE:HD2	1.70	0.55
46:TB:252:LYS:NZ	47:TC:501:GTP:O1G	2.32	0.55
46:TD:73:MET:HA	46:TD:76:VAL:HG12	1.88	0.55
46:TH:102:ALA:O	46:TH:106:TYR:HB2	2.05	0.55
45:TI:33:ASP:OD1	45:TI:85:GLN:NE2	2.40	0.55
45:TI:90:GLU:OE1	45:UI:280:LYS:NZ	2.35	0.55
46:TJ:156:ARG:NH2	46:TJ:195:ASN:O	2.39	0.55
46:TL:139:LEU:N	46:TL:169:VAL:O	2.28	0.55
46:UB:331:LEU:HD11	45:UC:177:VAL:HA	1.88	0.55
46:UH:6:HIS:NE2	46:UH:8:GLN:OE1	2.34	0.55
45:UK:251:ASP:OD1	45:UK:252:ILE:N	2.39	0.55
46:UL:6:HIS:O	46:UL:63:ALA:HA	2.06	0.55
46:VB:58:ARG:NH2	46:WB:280:GLN:OE1	2.39	0.55
46:VD:182:PRO:HD2	46:VD:388:MET:HE2	1.88	0.55
46:VJ:294:PHE:HE2	46:VJ:333:VAL:HG21	1.70	0.55
45:VM:265:ILE:HG22	45:VM:380:ASN:HD21	1.70	0.55
46:WB:200:MET:HE2	46:WB:266:PHE:HB2	1.87	0.55
46:WF:16:ILE:HD12	46:WF:229:VAL:HG11	1.88	0.55
45:WG:346:TRP:CD1	46:WJ:391:ARG:HG3	2.41	0.55
46:WJ:325:GLU:HA	46:WJ:328:GLU:HG3	1.87	0.55
21:1L:575:LYS:NZ	45:AE:84:ARG:HE	2.04	0.55
21:2L:523:GLN:HB3	46:BN:320:ARG:NH1	2.20	0.55
40:6G:210:ARG:HA	46:VF:297:LYS:HZ1	1.70	0.55
45:AA:248:LEU:HB2	45:AA:355:ILE:HG22	1.88	0.55
45:AG:260:VAL:HB	46:AJ:397:TRP:HZ2	1.72	0.55
45:BA:192:HIS:ND1	45:BA:424:ASP:OD2	2.37	0.55
45:BA:268:MET:HG3	45:BA:380:ASN:HB2	1.87	0.55
46:BD:91:VAL:HG21	46:BD:116:VAL:HB	1.88	0.55
45:BI:11:GLN:HG3	45:BI:74:VAL:HG11	1.87	0.55
45:BK:141:VAL:HG11	45:BK:172:TYR:HD1	1.70	0.55
46:BN:318:ARG:HG2	46:BN:357:PRO:HA	1.87	0.55
46:CB:12:CYS:O	46:CB:16:ILE:HG12	2.07	0.55
45:CK:292:THR:HG21	45:CK:331:SER:HB3	1.87	0.55
46:DB:60:VAL:HB	46:EB:281:TYR:HD2	1.71	0.55
46:DD:221:THR:HG23	46:DD:224:ASP:H	1.72	0.55
46:DD:273:LEU:H	46:DD:292:GLN:HE22	1.52	0.55
45:DG:268:MET:HB2	45:DG:379:SER:O	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DG:335:ILE:HA	45:DG:338:LYS:HE3	1.88	0.55
46:EH:21:TRP:HA	46:EH:24:ILE:HG22	1.89	0.55
46:EH:260:PHE:HB2	46:EH:263:LEU:HD13	1.88	0.55
46:EJ:289:LEU:HD13	46:EJ:365:VAL:HG23	1.88	0.55
45:EK:395:PHE:HZ	45:EK:418:PHE:HB3	1.71	0.55
45:EM:390:ARG:O	45:EM:394:LYS:HG2	2.07	0.55
45:FI:176:GLN:NE2	45:FI:207:GLU:OE2	2.40	0.55
46:FJ:68:LEU:HB3	46:FJ:96:GLY:HA2	1.87	0.55
45:FM:52:PHE:H	45:FM:243:ARG:NH2	2.04	0.55
45:GE:118:CYS:O	45:GE:122:ILE:HG12	2.06	0.55
45:GK:209:ILE:HG23	45:GK:227:LEU:HD22	1.88	0.55
46:HD:200:MET:HE1	46:HD:266:PHE:HB2	1.89	0.55
45:HE:326:LYS:HG3	45:HE:327:ASP:N	2.21	0.55
45:IA:166:LYS:O	45:IA:199:ASP:HB3	2.06	0.55
45:IG:332:ILE:HD11	45:IG:351:PHE:CG	2.41	0.55
46:JB:45:GLU:HG2	46:JB:46:ARG:HG2	1.87	0.55
46:JD:207:LEU:HB3	46:JD:225:LEU:HD22	1.87	0.55
45:JI:205:ASP:OD1	45:JI:303:ALA:HA	2.06	0.55
46:JN:222:TYR:O	46:JN:226:ASN:ND2	2.29	0.55
46:KB:31:ASP:OD1	46:KB:35:THR:N	2.37	0.55
46:KF:63:ALA:O	46:KF:89:ASN:ND2	2.39	0.55
46:KF:318:ARG:HE	46:KF:358:PRO:HG3	1.71	0.55
45:KG:103:PHE:HB2	45:KG:186:ASN:HB3	1.87	0.55
45:KG:331:SER:O	45:KG:335:ILE:HG12	2.06	0.55
45:KK:326:LYS:HZ3	46:KN:220:PRO:HD2	1.71	0.55
45:KM:11:GLN:HG3	45:KM:74:VAL:HG11	1.87	0.55
45:LE:98:ASP:OD1	45:LE:99:ALA:N	2.40	0.55
46:LJ:54:ALA:HB3	46:LJ:58:ARG:HG2	1.88	0.55
46:LL:101:TRP:NE1	46:LL:188:SER:OG	2.38	0.55
46:LN:86:ARG:HE	46:LN:86:ARG:HA	1.72	0.55
45:MC:9:VAL:HG12	45:MC:68:LEU:HB2	1.86	0.55
45:MM:181:VAL:HG23	45:MM:182:VAL:HG13	1.88	0.55
45:MM:285:GLN:NE2	45:MM:290:GLU:OE2	2.39	0.55
46:MN:178:THR:HG22	46:MN:180:VAL:H	1.72	0.55
45:NC:180:ALA:HA	46:ND:350:LYS:HZ2	1.71	0.55
45:NC:222:PRO:O	46:ND:322:SER:OG	2.18	0.55
45:NE:430:LYS:O	45:NE:433:GLU:HG3	2.05	0.55
45:NI:399:TYR:OH	45:NI:402:ARG:NH2	2.39	0.55
45:NK:31:GLN:HG2	45:NK:32:PRO:HD2	1.88	0.55
46:NL:254:ALA:O	46:NL:258:ILE:HG22	2.07	0.55
46:NN:161:ASP:HB2	46:NN:162:ARG:HH21	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:276:ILE:HD11	45:OC:280:LYS:HG3	1.87	0.55
46:OD:58:ARG:HH22	46:OD:84:LEU:HA	1.71	0.55
46:OH:186:THR:HA	46:OH:189:VAL:HG12	1.89	0.55
46:ON:372:THR:HA	46:ON:422:TYR:HE2	1.72	0.55
45:PG:70:LEU:HD13	45:PG:95:GLY:HA3	1.87	0.55
45:PG:387:VAL:O	45:PG:390:ARG:HG2	2.06	0.55
46:QB:74:ASP:OD1	46:QB:77:ARG:NH1	2.38	0.55
45:QC:90:GLU:OE1	45:QC:121:ARG:NE	2.40	0.55
45:QE:280:LYS:HE3	45:QE:283:HIS:HB2	1.86	0.55
45:RE:328:VAL:HG11	45:RE:353:VAL:HG21	1.86	0.55
45:RK:329:ASN:HA	45:RK:332:ILE:HG12	1.87	0.55
45:SK:261:PRO:HA	46:SL:394:PHE:HD1	1.72	0.55
45:TE:69:ASP:HB3	45:TE:75:ILE:HD11	1.88	0.55
45:TG:265:ILE:HG22	45:TG:432:TYR:HE1	1.71	0.55
45:TK:426:ALA:HB1	45:TK:430:LYS:NZ	2.20	0.55
45:UC:184:PRO:O	45:UC:188:ILE:HG12	2.07	0.55
45:UC:217:LEU:HB3	45:UC:219:ILE:HG12	1.88	0.55
46:UD:2:ARG:H	46:UD:129:CYS:HG	1.54	0.55
45:UE:70:LEU:HD13	45:UE:95:GLY:HA3	1.88	0.55
45:UK:121:ARG:HE	45:UK:124:LYS:HE2	1.70	0.55
46:VD:8:GLN:HE21	46:VD:65:LEU:HG	1.72	0.55
46:VH:372:THR:HA	46:VH:422:TYR:HE2	1.70	0.55
46:VJ:375:GLN:HG3	46:VJ:419:VAL:HG13	1.88	0.55
46:VL:135:ILE:HG13	46:VL:152:ILE:HD11	1.88	0.55
46:VN:67:ASP:OD1	46:VN:68:LEU:N	2.38	0.55
45:WA:68:LEU:HD21	45:WA:118:CYS:HB2	1.88	0.55
46:WB:100:ASN:ND2	46:WB:401:GLU:OE1	2.38	0.55
45:WE:395:PHE:HZ	45:WE:418:PHE:HB3	1.69	0.55
46:WL:266:PHE:CE1	46:WL:370:ASN:HB2	2.41	0.55
2:OB:202:GLY:HA3	45:KI:372:MET:SD	2.46	0.55
6:OF:66:SER:HB2	46:DD:56:GLY:HA2	1.88	0.55
15:1X:5:LYS:NZ	45:ME:245:ASP:OD1	2.35	0.55
12:2T:139:TYR:O	45:MG:163:LYS:NZ	2.31	0.55
15:4X:2:LYS:HZ2	46:LL:74:ASP:HB3	1.71	0.55
36:5B:146:VAL:HG13	36:5B:147:TYR:HD1	1.71	0.55
37:5E:97:ARG:HH22	46:KB:262:ARG:HD3	1.71	0.55
37:5F:126:LEU:HD22	45:OE:285:GLN:HE22	1.71	0.55
34:5R:321:MET:HB2	46:CJ:279:GLN:NE2	2.21	0.55
39:6F:42:ASN:OD1	39:6F:57:SER:OG	2.21	0.55
34:6R:129:VAL:HB	34:6R:145:ILE:HB	1.88	0.55
47:AI:501:GTP:O1G	46:AJ:252:LYS:NZ	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:211:ASP:OD2	45:CG:215:ARG:NE	2.36	0.55
46:CL:268:ILE:HG22	46:CL:368:VAL:HG22	1.87	0.55
46:DD:86:ARG:NH2	46:ED:282:ARG:HG2	2.20	0.55
45:DG:191:THR:HA	45:DG:194:LEU:HG	1.88	0.55
45:DM:11:GLN:NE2	45:DM:69:ASP:OD2	2.39	0.55
45:DM:101:ASN:HA	45:DM:144:GLY:H	1.71	0.55
45:EK:208:ALA:O	45:EK:212:ILE:HG12	2.06	0.55
45:FC:11:GLN:HG3	45:FC:74:VAL:HG11	1.88	0.55
45:FI:328:VAL:O	45:FI:332:ILE:HG12	2.07	0.55
45:GA:398:MET:HG3	46:GB:345:ILE:HG22	1.87	0.55
46:GD:171:PRO:HB2	46:GD:181:GLU:HG2	1.88	0.55
45:GI:227:LEU:O	45:GI:231:ILE:HG12	2.06	0.55
46:HH:26:ASP:O	46:HH:359:LYS:NZ	2.27	0.55
45:HK:3:GLU:OE2	45:HK:131:GLY:N	2.38	0.55
45:IC:175:PRO:HB2	45:IC:176:GLN:OE1	2.06	0.55
46:ID:113:ILE:HG21	46:ID:150:LEU:HD22	1.88	0.55
45:IE:407:TRP:HE1	46:IF:258:ILE:HG23	1.71	0.55
45:IG:179:THR:HG21	46:IH:246:LEU:HD13	1.88	0.55
45:IM:116:ASP:OD1	45:IM:117:LEU:N	2.38	0.55
46:JB:73:MET:HA	46:JB:76:VAL:HG12	1.89	0.55
45:JC:123:ARG:NH2	45:JC:160:ASP:OD2	2.39	0.55
45:JG:136:LEU:HD12	45:JG:169:PHE:HE2	1.71	0.55
46:JH:52:ASN:OD1	46:JH:62:ARG:NH2	2.39	0.55
45:KE:346:TRP:CD1	46:KH:391:ARG:HG3	2.42	0.55
45:KK:98:ASP:OD1	45:KK:99:ALA:N	2.39	0.55
45:LE:55:GLU:HG3	45:LE:57:GLY:H	1.72	0.55
45:LK:206:ASN:HB3	45:LK:210:TYR:CE2	2.42	0.55
46:LL:286:VAL:HG21	46:LL:325:GLU:HB3	1.87	0.55
46:NB:318:ARG:HD3	46:NB:358:PRO:HG3	1.88	0.55
45:NE:72:PRO:HD2	46:NF:2:ARG:HH12	1.72	0.55
46:NJ:318:ARG:HB3	46:NJ:357:PRO:HA	1.87	0.55
45:NK:99:ALA:HA	45:NK:105:ARG:HD2	1.88	0.55
45:OE:298:PRO:HG3	45:OE:308:ARG:HH22	1.70	0.55
46:OJ:313:ALA:HB1	46:OJ:367:PHE:HE1	1.71	0.55
46:OJ:406:MET:O	46:OJ:410:GLU:HG2	2.07	0.55
46:PD:55:THR:HG23	46:QB:283:ALA:HA	1.89	0.55
46:PF:63:ALA:O	46:PF:89:ASN:ND2	2.39	0.55
46:PJ:48:ASN:O	46:PJ:62:ARG:NH1	2.36	0.55
46:QB:12:CYS:HA	46:QB:15:GLN:NE2	2.20	0.55
46:QB:67:ASP:O	46:QB:92:PHE:HA	2.06	0.55
46:QB:87:PRO:HA	46:QB:90:PHE:CD1	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:101:TRP:HB2	46:QB:184:ASN:HB3	1.88	0.55
46:QB:258:ILE:HD11	45:QC:407:TRP:HZ2	1.71	0.55
46:RB:261:PRO:HD3	45:RC:406:HIS:CE1	2.41	0.55
45:RC:184:PRO:O	45:RC:188:ILE:HD12	2.06	0.55
46:RF:258:ILE:HG13	45:RG:407:TRP:HZ2	1.70	0.55
46:RF:323:THR:OG1	45:RG:210:TYR:OH	2.16	0.55
46:RN:100:ASN:HD21	46:RN:102:ALA:HB3	1.71	0.55
45:SC:60:LYS:HE2	45:TC:283:HIS:HD2	1.71	0.55
46:SD:12:CYS:O	46:SD:16:ILE:HG12	2.07	0.55
46:SJ:58:ARG:NH2	46:TJ:280:GLN:OE1	2.38	0.55
45:SK:15:GLN:O	45:SK:18:ASN:ND2	2.39	0.55
46:SL:21:TRP:CH2	46:SL:61:PRO:HB2	2.41	0.55
45:TA:328:VAL:HG11	45:TA:353:VAL:HG21	1.88	0.55
46:TF:68:LEU:HB3	46:TF:96:GLY:HA2	1.88	0.55
46:TL:310:TYR:HD1	46:TL:371:SER:HB2	1.71	0.55
45:TM:242:LEU:HD11	45:TM:252:ILE:HG13	1.88	0.55
46:UB:222:TYR:O	46:UB:226:ASN:ND2	2.30	0.55
46:UD:2:ARG:NH2	45:UE:72:PRO:HD3	2.22	0.55
46:UD:133:PHE:HB2	46:UD:164:MET:HG3	1.89	0.55
46:UJ:163:ILE:HA	46:UJ:197:ASP:OD2	2.06	0.55
45:VC:171:ILE:O	45:VC:171:ILE:HG13	2.06	0.55
45:VC:345:ASP:N	45:VC:345:ASP:OD1	2.39	0.55
45:VE:318:MET:HB3	45:VE:376:CYS:SG	2.47	0.55
45:VG:260:VAL:HB	46:VJ:397:TRP:HZ2	1.71	0.55
46:VJ:299:MET:HG3	46:VJ:301:CYS:H	1.71	0.55
45:VM:11:GLN:NE2	46:VN:245:GLN:O	2.40	0.55
45:WA:220:GLU:O	45:WA:221:ARG:HD2	2.06	0.55
46:WF:3:GLU:HG3	46:WF:49:VAL:HA	1.89	0.55
46:WF:226:ASN:HA	46:WF:229:VAL:HG12	1.88	0.55
45:WI:208:ALA:O	45:WI:212:ILE:HG12	2.07	0.55
45:CE:259:LEU:HB3	45:CE:268:MET:CE	2.35	0.55
4:0D:224:ARG:NE	34:7R:493:GLY:HA3	2.22	0.55
6:0F:34:GLY:O	45:DE:79:ARG:NH1	2.39	0.55
4:1D:20:LYS:NZ	46:CF:53:GLU:HB3	2.20	0.55
8:1H:139:ARG:NH1	45:HI:370:LYS:HG3	2.22	0.55
25:1R:181:PHE:CE1	46:AF:80:PRO:HB3	2.40	0.55
21:2L:761:TYR:OH	45:BK:219:ILE:HG23	2.05	0.55
21:2L:894:ARG:HH12	45:CK:365:GLY:H	1.55	0.55
24:2P:418:GLN:HE21	46:TL:276:ARG:HH11	1.53	0.55
35:4S:211:ASN:HB3	35:4S:217:LEU:HD21	1.88	0.55
36:5A:22:TYR:HB3	36:5A:61:SER:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5B:145:ASN:OD1	36:5B:146:VAL:N	2.39	0.55
36:5B:153:PHE:HE2	45:NG:365:GLY:H	1.54	0.55
37:5G:9:TYR:CD1	37:5G:10:PRO:HD3	2.42	0.55
37:5G:52:GLY:N	37:5G:55:GLU:OE2	2.34	0.55
46:AB:67:ASP:O	46:AB:92:PHE:HA	2.04	0.55
45:AC:111:GLY:O	45:AC:115:VAL:HG13	2.06	0.55
45:AI:292:THR:HG21	45:AI:331:SER:HB3	1.87	0.55
45:AK:259:LEU:HD11	45:AK:316:SER:HB3	1.87	0.55
45:BE:222:PRO:O	46:BF:324:LYS:HD2	2.06	0.55
46:BH:139:LEU:HD13	46:BH:168:SER:HB3	1.87	0.55
46:BN:64:ILE:HD13	46:BN:119:VAL:HG13	1.88	0.55
45:CC:322:ASP:OD1	45:CC:373:ARG:NH1	2.34	0.55
45:CG:36:MET:SD	45:CG:37:PRO:HD2	2.46	0.55
46:CH:274:THR:HB	46:CH:282:ARG:HH11	1.71	0.55
46:CJ:222:TYR:HD1	49:CJ:501:GDP:C6	2.24	0.55
46:CL:119:VAL:O	46:CL:123:GLU:HG2	2.07	0.55
46:DB:317:PHE:CD1	46:DB:365:VAL:HG22	2.41	0.55
46:DF:190:HIS:CE1	46:DF:414:ASN:HD22	2.24	0.55
45:EA:76:ASP:OD1	45:EA:79:ARG:NH2	2.39	0.55
45:EA:328:VAL:HG11	45:EA:353:VAL:HG21	1.88	0.55
45:EC:258:ASN:HD22	45:EC:352:LYS:HD3	1.70	0.55
46:EF:5:VAL:HG12	46:EF:62:ARG:HD3	1.87	0.55
46:EN:204:ASN:OD1	49:EN:501:GDP:O2'	2.20	0.55
45:FC:22:GLU:HG3	45:FC:83:TYR:HE2	1.71	0.55
45:GA:80:THR:O	45:GA:84:ARG:NH2	2.39	0.55
45:GA:259:LEU:HD23	45:GA:268:MET:HG2	1.89	0.55
45:GC:20:CYS:HB3	45:GC:24:PHE:HE2	1.71	0.55
46:GD:342:VAL:HG13	46:GD:345:ILE:HG22	1.89	0.55
46:GJ:127:CYS:SG	46:GJ:128:ASP:N	2.79	0.55
45:GK:226:ASN:ND2	45:GK:367:ASP:OD1	2.40	0.55
46:HB:86:ARG:NH1	46:IB:281:TYR:HB3	2.21	0.55
46:HD:181:GLU:N	46:HD:181:GLU:OE2	2.40	0.55
46:ID:378:PHE:HA	46:ID:381:VAL:HG12	1.88	0.55
45:IE:205:ASP:OD1	45:IE:303:ALA:HA	2.06	0.55
45:IG:271:SER:HB2	45:IG:301:MET:SD	2.47	0.55
46:IH:22:GLU:HG2	46:IH:81:PHE:CD1	2.41	0.55
46:IJ:148:GLY:O	46:IJ:152:ILE:HG12	2.07	0.55
45:JG:372:MET:SD	45:JG:373:ARG:HG3	2.47	0.55
45:JI:292:THR:HG22	45:JI:335:ILE:HD11	1.88	0.55
45:JM:90:GLU:CD	45:KM:280:LYS:HZ3	2.08	0.55
45:KA:18:ASN:O	45:KA:22:GLU:HG2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:335:ILE:HD13	45:KG:338:LYS:NZ	2.20	0.55
45:LA:214:ARG:HD3	46:LB:324:LYS:HE3	1.88	0.55
45:NI:229:ARG:NH1	45:NI:366:GLY:HA2	2.21	0.55
45:NI:325:PRO:HB2	46:NL:208:TYR:OH	2.06	0.55
45:OA:102:ASN:CB	46:OB:251:ARG:HH22	2.18	0.55
45:OC:3:GLU:OE2	45:OC:131:GLY:N	2.40	0.55
45:OE:31:GLN:HG3	45:OE:37:PRO:HG3	1.89	0.55
46:ON:316:LEU:HD13	46:ON:352:SER:OG	2.06	0.55
45:PC:154:LEU:HD22	45:PC:197:HIS:HB3	1.88	0.55
46:PD:19:LYS:HE2	46:PD:227:HIS:ND1	2.21	0.55
45:PK:8:HIS:HB2	45:PK:67:PHE:HD2	1.71	0.55
46:PN:86:ARG:HG3	46:PN:88:ASP:H	1.70	0.55
45:QC:264:ARG:NH1	45:QC:431:ASP:OD2	2.40	0.55
45:QC:358:GLN:NE2	45:QC:359:PRO:O	2.37	0.55
45:QE:244:PHE:HB2	45:QE:356:ASN:HD21	1.71	0.55
45:QE:254:GLU:HG3	46:QF:98:GLY:HA2	1.88	0.55
46:QF:55:THR:HG23	46:RF:283:ALA:HA	1.89	0.55
46:QF:282:ARG:NH2	46:QF:288:GLU:OE2	2.39	0.55
45:QG:329:ASN:HA	45:QG:332:ILE:HG12	1.88	0.55
45:QK:101:ASN:HA	45:QK:144:GLY:H	1.71	0.55
45:QK:420:GLU:OE2	45:QK:420:GLU:N	2.36	0.55
45:RG:326:LYS:HD2	46:RH:212:PHE:HZ	1.72	0.55
46:RL:375:GLN:HG3	46:RL:419:VAL:HG13	1.88	0.55
45:RM:171:ILE:HG13	45:RM:171:ILE:O	2.06	0.55
46:SD:316:LEU:HG	46:SD:352:SER:HB2	1.88	0.55
45:SG:56:THR:HG21	45:SG:60:LYS:HG3	1.87	0.55
46:SJ:12:CYS:O	46:SJ:16:ILE:HG12	2.06	0.55
45:TC:336:LYS:HE3	45:TC:351:PHE:HE1	1.71	0.55
45:TG:55:GLU:HG3	45:TG:57:GLY:H	1.72	0.55
46:TL:299:MET:HG3	46:TL:301:CYS:H	1.71	0.55
45:TM:88:HIS:CD2	45:UM:283:HIS:HD2	2.25	0.55
46:UB:105:HIS:CE1	46:UB:150:LEU:HD12	2.42	0.55
45:UC:88:HIS:HB3	45:UC:91:GLN:HG2	1.88	0.55
45:UC:118:CYS:O	45:UC:122:ILE:HG12	2.07	0.55
46:UD:64:ILE:HD13	46:UD:119:VAL:HG13	1.87	0.55
46:UJ:254:ALA:O	46:UJ:258:ILE:HG22	2.06	0.55
45:VI:419:SER:O	45:VI:423:GLU:HG2	2.07	0.55
46:VN:116:VAL:HA	46:VN:119:VAL:HG12	1.86	0.55
46:VN:273:LEU:N	46:VN:292:GLN:HE22	2.03	0.55
45:WA:109:THR:O	45:WA:112:LYS:NZ	2.38	0.55
45:WC:136:LEU:HD23	45:WC:167:LEU:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WG:387:VAL:HA	45:WG:390:ARG:HG2	1.89	0.55
45:WI:175:PRO:HG3	45:WI:390:ARG:NH1	2.21	0.55
45:WI:227:LEU:O	45:WI:231:ILE:HD12	2.07	0.55
45:WI:268:MET:SD	45:WI:380:ASN:HB2	2.47	0.55
45:WK:136:LEU:HD13	45:WK:167:LEU:HB2	1.87	0.55
46:WL:221:THR:HG23	46:WL:224:ASP:H	1.70	0.55
45:DC:191:THR:HA	45:DC:194:LEU:HG	1.89	0.55
1:0A:71:TYR:CE2	46:AB:320:ARG:HB3	2.42	0.55
8:1H:90:ARG:NH1	45:HK:279:GLU:HA	2.20	0.55
21:1L:479:VAL:HG21	34:4R:323:LEU:H	1.70	0.55
21:2L:772:ASN:HD22	45:BK:278:ALA:HB3	1.70	0.55
11:2S:152:SER:OG	46:WJ:94:GLN:NE2	2.39	0.55
14:3V:122:LYS:HE2	46:LD:390:ARG:HH22	1.70	0.55
15:4X:19:ASN:OD1	15:4X:20:GLY:N	2.40	0.55
41:6H:292:ASN:O	41:6H:294:PRO:HD3	2.05	0.55
41:6H:304:LYS:HG3	45:FG:225:THR:HG21	1.88	0.55
45:AA:2:ARG:NH2	46:AD:69:GLU:OE2	2.34	0.55
46:AB:377:MET:HA	46:AB:380:ARG:HH11	1.69	0.55
45:AG:118:CYS:O	45:AG:122:ILE:HG12	2.06	0.55
45:AI:88:HIS:CE1	45:AI:90:GLU:HG2	2.42	0.55
45:AK:208:ALA:O	45:AK:212:ILE:HG12	2.07	0.55
46:BB:287:PRO:O	46:BB:291:GLN:HG3	2.07	0.55
45:BK:226:ASN:ND2	45:BK:367:ASP:OD2	2.40	0.55
46:CB:3:GLU:HA	46:CB:49:VAL:HG23	1.89	0.55
45:CG:413:MET:HE2	45:CG:413:MET:HA	1.89	0.55
46:CH:322:SER:OG	46:CH:323:THR:N	2.39	0.55
46:CJ:273:LEU:H	46:CJ:292:GLN:HE22	1.52	0.55
46:DB:6:HIS:O	46:DB:63:ALA:HA	2.07	0.55
46:DD:309:ARG:NH1	46:DD:341:PHE:O	2.38	0.55
45:DG:206:ASN:OD1	47:DG:501:GTP:N2	2.39	0.55
46:ED:175:VAL:HG13	46:ED:205:GLU:OE1	2.07	0.55
46:EH:86:ARG:NH1	46:FH:282:ARG:HH22	2.05	0.55
46:EH:213:ARG:NE	46:EH:297:LYS:HZ2	2.04	0.55
46:EJ:96:GLY:O	46:EJ:103:LYS:NZ	2.36	0.55
45:FK:88:HIS:HA	45:GK:283:HIS:CE1	2.41	0.55
45:GC:105:ARG:HG2	45:GC:411:GLU:OE2	2.05	0.55
46:GH:309:ARG:H	46:GH:372:THR:HG1	1.54	0.55
45:GM:284:GLU:HG3	45:GM:286:LEU:HD22	1.87	0.55
45:HG:205:ASP:OD1	45:HG:303:ALA:HA	2.06	0.55
46:HH:31:ASP:OD1	46:HH:35:THR:N	2.33	0.55
45:IA:98:ASP:O	45:IA:105:ARG:NH1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IA:316:SER:HA	45:IA:352:LYS:HB2	1.88	0.55
45:IC:269:LEU:HG	45:IC:301:MET:HE2	1.87	0.55
46:IH:145:SER:HB2	46:IH:188:SER:HB3	1.88	0.55
46:IH:226:ASN:ND2	49:IH:501:GDP:HN1	2.03	0.55
46:IL:148:GLY:O	46:IL:152:ILE:HG12	2.06	0.55
45:JC:224:TYR:O	45:JC:228:ASN:ND2	2.26	0.55
46:JF:6:HIS:NE2	46:JF:8:GLN:OE1	2.39	0.55
46:JJ:69:GLU:OE2	46:JJ:72:THR:OG1	2.21	0.55
46:JN:191:GLN:O	46:JN:195:ASN:ND2	2.39	0.55
45:KC:210:TYR:HE1	45:KC:227:LEU:HD21	1.71	0.55
45:KG:224:TYR:HA	45:KG:227:LEU:HD12	1.89	0.55
45:KG:407:TRP:HE1	46:KH:258:ILE:HB	1.72	0.55
46:KH:330:MET:HB3	46:KH:349:ILE:HD12	1.88	0.55
45:LA:161:TYR:HD1	45:LA:164:LYS:HG3	1.71	0.55
45:ME:241:SER:OG	45:ME:250:VAL:O	2.20	0.55
45:ME:328:VAL:HG11	45:ME:353:VAL:HG21	1.88	0.55
45:MK:244:PHE:HB2	45:MK:356:ASN:HD21	1.70	0.55
45:NI:134:GLY:HA2	45:NI:164:LYS:HE3	1.88	0.55
45:NM:91:GLN:N	45:NM:91:GLN:OE1	2.39	0.55
47:NM:501:GTP:H8	46:NN:246:LEU:HD11	1.71	0.55
46:OJ:6:HIS:HE2	46:OJ:8:GLN:HE21	1.53	0.55
45:PA:100:ALA:HB3	46:PB:251:ARG:NH2	2.22	0.55
45:PE:356:ASN:OD1	45:PE:357:TYR:N	2.40	0.55
45:PG:21:TRP:CZ3	45:PG:63:PRO:HB3	2.42	0.55
45:PG:294:SER:O	45:PG:300:ASN:ND2	2.34	0.55
45:PG:360:PRO:HG2	45:PG:371:VAL:HG23	1.89	0.55
46:PH:178:THR:HB	46:PH:181:GLU:HG2	1.88	0.55
45:PI:426:ALA:HB1	45:PI:430:LYS:NZ	2.22	0.55
46:PJ:19:LYS:HZ1	46:PJ:227:HIS:HB2	1.70	0.55
46:PJ:207:LEU:HD22	46:PJ:228:LEU:HD11	1.89	0.55
46:PJ:392:LYS:HA	46:PJ:395:LEU:HD12	1.89	0.55
46:PN:113:ILE:HD13	46:PN:150:LEU:HD21	1.87	0.55
46:PN:290:THR:HA	46:PN:293:MET:HG2	1.87	0.55
45:QG:326:LYS:NZ	46:QH:219:THR:HA	2.21	0.55
46:QH:153:SER:HA	46:QH:195:ASN:HD22	1.71	0.55
46:QJ:207:LEU:HB3	46:QJ:225:LEU:HD22	1.89	0.55
46:SB:114:ASP:OD1	46:SB:115:SER:N	2.39	0.55
46:SB:132:GLY:HA2	46:SB:162:ARG:HB3	1.88	0.55
45:SE:288:VAL:HG11	45:SE:327:ASP:HB3	1.88	0.55
46:SH:8:GLN:NE2	46:SH:17:GLY:HA3	2.20	0.55
46:TD:207:LEU:HD13	46:TD:210:ILE:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TD:324:LYS:HA	46:TD:327:ASP:OD2	2.06	0.55
45:UC:2:ARG:NH2	46:UD:69:GLU:OE2	2.38	0.55
45:UC:352:LYS:NZ	46:UD:178:THR:HA	2.22	0.55
46:UL:97:ALA:HB3	46:UL:143:THR:HB	1.89	0.55
45:VG:174:SER:HB2	45:VG:177:VAL:HB	1.89	0.55
46:WD:266:PHE:CE1	46:WD:370:ASN:HB2	2.42	0.55
46:WF:19:LYS:HZ1	46:WF:227:HIS:HA	1.71	0.55
45:WG:66:VAL:HG11	45:WG:122:ILE:HD11	1.87	0.55
46:WJ:290:THR:HA	46:WJ:293:MET:HG3	1.88	0.55
45:WK:328:VAL:HG11	45:WK:353:VAL:HG21	1.87	0.55
46:WL:58:ARG:HD2	46:WL:59:TYR:H	1.72	0.55
46:WL:154:LYS:O	46:WL:157:GLU:HG2	2.06	0.55
3:OC:86:LYS:HE2	46:EH:42:LEU:HD21	1.87	0.55
6:OF:80:TYR:CE2	45:EE:81:GLY:HA3	2.42	0.55
21:1L:308:ARG:CZ	45:BG:367:ASP:HA	2.37	0.55
23:1O:210:ILE:HD13	45:UC:282:TYR:CE2	2.42	0.55
23:1O:265:PHE:C	45:UA:282:TYR:CG	2.79	0.55
11:1S:46:TRP:CH2	45:WC:88:HIS:HA	2.41	0.55
20:2K:379:ARG:HD2	45:GG:282:TYR:CD2	2.29	0.55
34:4R:424:LEU:HB3	34:4R:426:PHE:HE2	1.72	0.55
35:4S:213:ASN:O	35:4S:217:LEU:HD13	2.06	0.55
37:5F:120:GLU:HG3	37:5F:121:GLU:HG2	1.89	0.55
41:6H:273:PRO:HA	41:6H:276:ILE:HD13	1.89	0.55
45:AA:238:LEU:HD12	45:AA:318:MET:HE1	1.89	0.55
46:AH:86:ARG:HG2	46:AH:88:ASP:H	1.72	0.55
46:AL:283:ALA:HA	46:ML:55:THR:HG23	1.87	0.55
45:BG:11:GLN:HG3	45:BG:74:VAL:HG11	1.89	0.55
46:BH:67:ASP:O	46:BH:92:PHE:HA	2.06	0.55
46:CB:256:ASN:HB3	46:CB:350:LYS:HE3	1.88	0.55
45:CI:345:ASP:OD1	45:CI:346:TRP:N	2.39	0.55
46:CL:245:GLN:HG3	46:CL:246:LEU:HD12	1.88	0.55
46:CN:25:SER:HG	46:CN:51:TYR:HH	1.53	0.55
46:DF:2:ARG:NH2	45:DG:71:GLU:OE1	2.39	0.55
45:DI:306:ASP:OD1	45:DI:308:ARG:NH2	2.39	0.55
46:DL:287:PRO:HA	46:DL:329:GLN:HE22	1.71	0.55
46:EL:318:ARG:HH22	46:EL:358:PRO:HB3	1.72	0.55
46:FD:73:MET:HA	46:FD:76:VAL:HG12	1.87	0.55
46:FF:139:LEU:HD22	46:FF:170:VAL:HG12	1.88	0.55
45:GE:347:CYS:HA	46:GH:388:MET:HE1	1.87	0.55
46:GF:134:GLN:HA	46:GF:165:GLU:O	2.06	0.55
46:GJ:86:ARG:HG3	46:GJ:88:ASP:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HA:72:PRO:HD2	46:HB:2:ARG:HH12	1.71	0.55
45:HC:101:ASN:HA	45:HC:144:GLY:H	1.71	0.55
45:HE:101:ASN:HA	45:HE:144:GLY:H	1.71	0.55
45:IG:207:GLU:HA	45:IG:210:TYR:HB2	1.89	0.55
45:IM:8:HIS:HB2	45:IM:67:PHE:HD2	1.71	0.55
45:IM:60:LYS:HE2	46:JN:281:TYR:CD1	2.42	0.55
45:JG:117:LEU:O	45:JG:121:ARG:HG2	2.07	0.55
45:JM:219:ILE:HG13	45:JM:221:ARG:H	1.71	0.55
45:KG:335:ILE:HD13	45:KG:338:LYS:HZ3	1.69	0.55
46:KN:334:GLN:HE22	46:KN:348:ASN:H	1.53	0.55
46:LD:73:MET:CE	46:LD:92:PHE:HB3	2.37	0.55
46:LH:122:LYS:NZ	46:MH:291:GLN:OE1	2.36	0.55
45:MC:324:VAL:HG12	45:MC:326:LYS:H	1.71	0.55
45:MK:287:SER:N	45:MK:290:GLU:OE2	2.35	0.55
45:MM:69:ASP:OD1	45:MM:70:LEU:N	2.39	0.55
45:NA:215:ARG:HH12	45:NA:300:ASN:HD21	1.55	0.55
46:NB:224:ASP:OD1	46:NB:225:LEU:N	2.39	0.55
46:NH:87:PRO:HA	46:NH:90:PHE:HD2	1.71	0.55
45:NI:180:ALA:HA	46:NJ:350:LYS:HZ3	1.72	0.55
45:NI:296:PHE:HE1	45:NI:377:MET:HG3	1.71	0.55
45:NM:74:VAL:HA	45:NM:77:GLU:OE1	2.07	0.55
45:OI:121:ARG:NH2	45:OI:125:LEU:HD21	2.22	0.55
45:OI:268:MET:HG3	45:OI:380:ASN:HB2	1.88	0.55
45:PI:402:ARG:NH2	45:PI:415:GLU:OE1	2.39	0.55
45:PK:88:HIS:CE1	45:PK:90:GLU:HG2	2.41	0.55
46:PL:226:ASN:HA	46:PL:229:VAL:HG12	1.87	0.55
45:QA:32:PRO:O	45:QA:85:GLN:NE2	2.40	0.55
45:QE:66:VAL:HG21	45:QE:122:ILE:HD11	1.88	0.55
45:QI:254:GLU:OE1	46:QJ:99:ASN:ND2	2.40	0.55
45:QK:141:VAL:HG11	45:QK:172:TYR:CD1	2.38	0.55
46:RD:21:TRP:CZ3	46:RD:61:PRO:HB3	2.41	0.55
46:RD:380:ARG:O	46:RD:384:GLN:HG2	2.07	0.55
45:RE:271:SER:OG	45:RE:301:MET:SD	2.61	0.55
45:RI:265:ILE:HD11	45:RI:435:VAL:HG21	1.88	0.55
45:RI:419:SER:O	45:RI:423:GLU:HG2	2.07	0.55
45:RM:256:GLN:HB2	45:RM:260:VAL:HB	1.88	0.55
46:TD:347:ASN:ND2	45:TE:176:GLN:O	2.39	0.55
45:TE:288:VAL:HA	45:TE:291:ILE:HG12	1.87	0.55
45:TG:76:ASP:OD1	45:TG:79:ARG:NH2	2.39	0.55
45:TI:252:ILE:HA	45:TI:255:PHE:HE2	1.71	0.55
45:TI:336:LYS:HD3	45:TI:351:PHE:HE2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TJ:226:ASN:HA	46:TJ:229:VAL:HG12	1.89	0.55
45:UA:76:ASP:OD1	45:UA:79:ARG:NH2	2.40	0.55
46:UJ:301:CYS:HB3	46:UJ:377:MET:HE1	1.89	0.55
45:UK:69:ASP:OD1	45:UK:70:LEU:N	2.40	0.55
46:UN:87:PRO:HA	46:UN:90:PHE:HD2	1.70	0.55
46:UN:114:ASP:OD1	46:UN:115:SER:N	2.40	0.55
46:VB:190:HIS:ND1	46:VB:411:ALA:HA	2.21	0.55
45:VC:17:GLY:HA2	45:VC:20:CYS:SG	2.46	0.55
45:VE:65:ALA:O	45:VE:91:GLN:NE2	2.40	0.55
46:VH:60:VAL:HG21	46:VH:86:ARG:HD3	1.88	0.55
45:WA:205:ASP:OD2	45:WA:205:ASP:N	2.40	0.55
46:WD:350:LYS:HD3	46:WD:351:SER:H	1.72	0.55
45:WG:352:LYS:HE2	46:WJ:178:THR:HA	1.88	0.55
4:0D:99:ARG:HH22	45:EC:364:PRO:HA	1.70	0.55
4:2D:75:ASP:HA	46:EJ:362:LYS:HE3	1.89	0.55
33:4F:203:ILE:HD12	45:HM:89:PRO:HB3	1.87	0.55
15:4X:49:ILE:O	15:4X:53:ILE:HG12	2.07	0.55
36:5D:87:ARG:HD3	36:5D:87:ARG:N	2.22	0.55
37:5E:144:LEU:O	37:5E:147:GLN:HG3	2.07	0.55
10:5Q:179:PRO:HA	10:5Q:182:LYS:HG2	1.89	0.55
40:6G:88:TYR:CZ	45:UK:79:ARG:HB3	2.42	0.55
40:6G:124:GLU:HA	40:6G:128:LYS:HB2	1.89	0.55
45:AC:209:ILE:HA	45:AC:212:ILE:HG12	1.87	0.55
45:AI:256:GLN:HB3	46:AL:397:TRP:CH2	2.41	0.55
46:AJ:31:ASP:OD1	46:AJ:35:THR:N	2.32	0.55
46:AJ:67:ASP:OD1	46:AJ:68:LEU:N	2.40	0.55
46:AN:217:LEU:HD11	46:AN:220:PRO:HB3	1.87	0.55
46:CB:68:LEU:HD12	46:CB:93:GLY:HA3	1.88	0.55
46:CF:109:GLY:O	46:CF:113:ILE:HG23	2.07	0.55
45:CG:208:ALA:HA	45:CG:304:LYS:HZ2	1.72	0.55
45:CK:258:ASN:HB3	45:CK:352:LYS:HD2	1.88	0.55
46:DD:99:ASN:ND2	45:DC:254:GLU:OE2	2.40	0.55
46:DF:153:SER:O	46:DF:157:GLU:HG2	2.07	0.55
46:DL:318:ARG:HB3	46:DL:357:PRO:HA	1.88	0.55
45:DM:174:SER:HB2	45:DM:177:VAL:O	2.06	0.55
46:EB:221:THR:HG23	46:EB:224:ASP:H	1.71	0.55
45:EC:33:ASP:HA	45:EC:85:GLN:HE21	1.71	0.55
46:ED:411:ALA:O	46:ED:415:MET:HE2	2.07	0.55
46:EH:238:CYS:SG	46:EH:239:CYS:N	2.80	0.55
45:EI:244:PHE:HB2	45:EI:356:ASN:HD21	1.71	0.55
45:EM:262:TYR:HB2	45:EM:265:ILE:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FJ:167:PHE:CE1	46:FJ:233:MET:HG2	2.42	0.55
45:GA:387:VAL:HA	45:GA:390:ARG:HG2	1.87	0.55
46:GF:178:THR:HB	46:GF:181:GLU:HG3	1.89	0.55
45:GK:292:THR:HG21	45:GK:331:SER:HB3	1.88	0.55
45:HC:141:VAL:HG11	45:HC:172:TYR:CD1	2.42	0.55
45:HE:326:LYS:HZ1	46:HH:219:THR:HA	1.71	0.55
45:HE:326:LYS:HD3	46:HH:220:PRO:HD2	1.89	0.55
45:JA:133:GLN:HB3	45:JA:252:ILE:HG21	1.89	0.55
46:JF:114:ASP:OD1	46:JF:115:SER:N	2.39	0.55
46:JF:128:ASP:OD1	46:JF:129:CYS:N	2.39	0.55
45:JG:155:GLU:HA	45:JG:197:HIS:CE1	2.41	0.55
45:JG:297:GLU:OE1	45:JG:298:PRO:HD2	2.06	0.55
45:JG:394:LYS:HG3	46:JH:346:PRO:HG3	1.88	0.55
46:JH:67:ASP:OD2	46:JH:68:LEU:N	2.40	0.55
46:JH:313:ALA:HB3	46:JH:349:ILE:HG22	1.89	0.55
46:JN:171:PRO:HB3	46:JN:181:GLU:HG2	1.88	0.55
45:KC:320:ARG:HD3	45:KC:360:PRO:HG3	1.88	0.55
46:KD:207:LEU:HB3	46:KD:225:LEU:HD22	1.89	0.55
46:LB:107:THR:HG23	46:LB:108:GLU:OE1	2.06	0.55
46:LB:132:GLY:HA3	46:LB:163:ILE:HG22	1.88	0.55
46:LB:293:MET:CE	46:LB:367:PHE:HB2	2.37	0.55
46:LN:313:ALA:HB3	46:LN:349:ILE:HG13	1.89	0.55
46:MF:8:GLN:OE1	46:MF:17:GLY:HA3	2.07	0.55
45:MG:68:LEU:HD11	45:MG:118:CYS:SG	2.47	0.55
45:MI:211:ASP:O	45:MI:215:ARG:HG2	2.07	0.55
46:MJ:293:MET:HE3	46:MJ:367:PHE:HB2	1.88	0.55
46:ND:285:THR:N	46:ND:288:GLU:OE2	2.39	0.55
46:NL:236:VAL:HG13	46:NL:237:THR:HG23	1.88	0.55
46:QF:31:ASP:OD2	46:QF:37:HIS:ND1	2.40	0.55
46:QL:12:CYS:O	46:QL:16:ILE:HD12	2.06	0.55
46:QL:266:PHE:CZ	46:QL:370:ASN:HB2	2.42	0.55
45:QM:109:THR:O	45:QM:112:LYS:NZ	2.39	0.55
45:RI:171:ILE:O	45:RI:171:ILE:HG13	2.06	0.55
45:RK:265:ILE:HG22	45:RK:380:ASN:HD21	1.70	0.55
45:SA:284:GLU:HG3	45:SA:286:LEU:HD22	1.88	0.55
46:SD:91:VAL:HG11	46:SD:116:VAL:HB	1.88	0.55
46:SD:210:ILE:O	46:SD:214:THR:OG1	2.20	0.55
45:SK:329:ASN:HA	45:SK:332:ILE:HG12	1.89	0.55
46:SL:192:LEU:HD21	46:SL:199:CYS:SG	2.47	0.55
46:TB:145:SER:HB2	46:TB:188:SER:HB3	1.89	0.55
45:TI:60:LYS:NZ	45:UI:282:TYR:HD1	2.04	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TI:244:PHE:HB2	45:TI:356:ASN:HD21	1.71	0.55
46:TJ:255:VAL:HA	45:TK:407:TRP:CZ3	2.42	0.55
45:TK:81:GLY:O	45:TK:84:ARG:HD3	2.05	0.55
46:TL:272:PRO:O	46:TL:273:LEU:HD23	2.07	0.55
45:TM:176:GLN:NE2	45:TM:207:GLU:OE2	2.40	0.55
46:UD:73:MET:HA	46:UD:76:VAL:HG12	1.88	0.55
46:UD:345:ILE:HA	45:UE:398:MET:HE1	1.89	0.55
46:UL:7:ILE:HG13	46:UL:64:ILE:HB	1.88	0.55
46:UN:276:ARG:NH2	46:UN:277:GLY:HA2	2.21	0.55
46:VD:72:THR:O	46:VD:75:SER:OG	2.22	0.55
45:VE:372:MET:HG2	45:VE:373:ARG:HG3	1.87	0.55
46:VN:209:ASP:OD1	46:VN:213:ARG:NE	2.24	0.55
45:WC:254:GLU:HG2	46:WF:98:GLY:HA2	1.89	0.55
45:WC:260:VAL:HB	46:WF:397:TRP:HZ2	1.70	0.55
45:WE:326:LYS:HG3	46:WH:220:PRO:HG2	1.88	0.55
45:WK:398:MET:HE1	46:WL:345:ILE:HA	1.89	0.55
9:1N:1:MET:HB3	45:II:96:LYS:NZ	2.20	0.55
23:1O:189:ILE:HA	46:UD:276:ARG:NH2	2.22	0.55
15:1X:78:ASN:ND2	46:MF:280:GLN:HG3	2.20	0.55
31:2I:80:TYR:CE2	45:FE:119:LEU:HB3	2.41	0.55
27:3C:225:THR:N	45:KA:220:GLU:OE2	2.40	0.55
15:4X:98:ALA:O	15:4X:102:GLU:HG2	2.07	0.55
37:5F:27:ARG:HH22	45:OC:221:ARG:HH21	1.55	0.55
34:5R:184:ASP:O	34:5R:187:THR:OG1	2.24	0.55
34:5R:528:ILE:O	34:5R:531:THR:OG1	2.19	0.55
40:6G:234:PRO:HG3	45:VC:215:ARG:NH1	2.21	0.55
45:AA:161:TYR:HB3	45:AA:164:LYS:HE2	1.87	0.55
46:AB:45:GLU:OE1	46:AB:45:GLU:N	2.38	0.55
46:AD:232:ALA:HB1	46:AD:268:ILE:HD12	1.88	0.55
46:AJ:173:PRO:HG2	46:AJ:380:ARG:HE	1.71	0.55
46:AJ:222:TYR:HD2	49:AJ:501:GDP:C6	2.25	0.55
45:AM:141:VAL:HG11	45:AM:172:TYR:CD1	2.41	0.55
45:BA:88:HIS:O	45:BA:91:GLN:HG2	2.06	0.55
45:BA:258:ASN:ND2	45:BA:352:LYS:HD3	2.22	0.55
46:BJ:362:LYS:HG3	46:BJ:363:MET:SD	2.47	0.55
45:BK:88:HIS:O	45:BK:91:GLN:HG2	2.07	0.55
46:CL:257:LEU:HD21	46:CL:314:SER:HB3	1.87	0.55
45:CM:426:ALA:HB1	45:CM:430:LYS:NZ	2.22	0.55
46:CN:135:ILE:HG13	46:CN:152:ILE:HD11	1.89	0.55
46:DD:398:TYR:O	46:DD:403:MET:HB3	2.07	0.55
46:DL:318:ARG:HB2	46:DL:364:ALA:HB3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:287:PRO:O	46:FB:290:THR:HG22	2.07	0.55
45:FI:419:SER:O	45:FI:423:GLU:HG2	2.06	0.55
45:FK:47:ASP:OD1	45:FK:48:ALA:N	2.37	0.55
46:GB:58:ARG:HH21	46:HB:281:TYR:HA	1.71	0.55
46:GB:268:ILE:HG22	46:GB:368:VAL:HG13	1.89	0.55
45:GC:226:ASN:O	45:GC:230:LEU:HG	2.07	0.55
46:GD:204:ASN:O	46:GD:208:TYR:HD2	1.89	0.55
46:GL:25:SER:OG	46:GL:51:TYR:OH	2.25	0.55
45:HK:147:SER:HB2	45:HK:190:SER:OG	2.07	0.55
45:IA:123:ARG:NH2	45:IA:127:ASP:OD1	2.39	0.55
46:ID:68:LEU:HD12	46:ID:93:GLY:HA3	1.88	0.55
46:IH:44:LEU:HA	46:IH:47:ILE:HG23	1.88	0.55
46:IN:200:MET:SD	46:IN:266:PHE:HB2	2.47	0.55
46:JB:139:LEU:HD12	46:JB:170:VAL:HG12	1.88	0.55
46:JF:372:THR:HA	46:JF:422:TYR:HE2	1.72	0.55
45:JG:268:MET:HG2	45:JG:380:ASN:HB2	1.89	0.55
46:JH:86:ARG:NH1	46:KH:281:TYR:O	2.40	0.55
45:KI:69:ASP:HB3	45:KI:75:ILE:HD11	1.89	0.55
46:KL:398:TYR:HD2	46:KL:408:PHE:HZ	1.55	0.55
46:LD:63:ALA:O	46:LD:89:ASN:ND2	2.39	0.55
46:LN:86:ARG:HE	46:LN:87:PRO:HD2	1.70	0.55
45:ME:248:LEU:HB3	45:ME:355:ILE:HG22	1.88	0.55
46:MN:248:SER:HA	46:MN:252:LYS:HG3	1.88	0.55
46:NB:67:ASP:O	46:NB:92:PHE:HA	2.05	0.55
45:NG:109:THR:HG22	45:NG:110:ILE:HG23	1.88	0.55
45:NG:177:VAL:HB	46:NH:327:ASP:OD2	2.07	0.55
46:NJ:97:ALA:HA	46:NJ:103:LYS:HD2	1.88	0.55
45:NM:105:ARG:HG2	45:NM:411:GLU:OE1	2.07	0.55
45:NM:216:ASN:HD22	45:NM:275:ILE:HB	1.72	0.55
45:OC:104:ALA:HB2	45:OC:413:MET:HB2	1.87	0.55
46:OL:180:VAL:O	46:OL:180:VAL:HG12	2.07	0.55
46:PB:31:ASP:OD2	46:PB:37:HIS:ND1	2.40	0.55
45:PG:265:ILE:HG12	45:PG:432:TYR:HE1	1.72	0.55
45:PG:318:MET:HB3	45:PG:376:CYS:SG	2.47	0.55
45:QG:209:ILE:HG23	45:QG:227:LEU:HD22	1.89	0.55
46:QL:7:ILE:HG13	46:QL:135:ILE:HG13	1.89	0.55
46:QL:107:THR:OG1	46:QL:401:GLU:OE2	2.18	0.55
45:QM:231:ILE:O	45:QM:235:ILE:HG12	2.06	0.55
45:RC:346:TRP:CD1	46:RD:391:ARG:HG3	2.42	0.55
46:RJ:221:THR:HG23	46:RJ:224:ASP:H	1.72	0.55
45:SA:212:ILE:HD13	45:SA:215:ARG:HH21	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:21:TRP:CZ3	46:SB:61:PRO:HB3	2.41	0.55
46:SB:304:ASP:OD2	46:SB:306:ARG:NH1	2.39	0.55
46:SH:286:VAL:HG23	46:SH:287:PRO:HD3	1.89	0.55
46:SH:394:PHE:HA	46:SH:397:TRP:HZ3	1.72	0.55
45:SI:284:GLU:HG3	45:SI:286:LEU:HD22	1.89	0.55
45:SK:118:CYS:O	45:SK:122:ILE:HG12	2.06	0.55
45:SM:277:SER:OG	45:SM:280:LYS:NZ	2.38	0.55
46:TF:117:LEU:HB3	46:TF:121:ARG:NH2	2.22	0.55
45:TG:239:THR:HG23	45:TG:243:ARG:HH12	1.71	0.55
46:TJ:86:ARG:HD2	46:TJ:87:PRO:HD2	1.88	0.55
45:TK:141:VAL:HG11	45:TK:172:TYR:HD1	1.72	0.55
46:TL:313:ALA:HB1	46:TL:367:PHE:HE1	1.72	0.55
45:UA:288:VAL:HA	45:UA:291:ILE:HG12	1.89	0.55
46:UB:214:THR:HG23	46:UB:297:LYS:NZ	2.22	0.55
46:UB:375:GLN:HE21	46:UB:423:GLN:HG2	1.70	0.55
46:UF:49:VAL:HG21	46:UF:241:ARG:HG2	1.89	0.55
45:VE:141:VAL:HG11	45:VE:172:TYR:CD1	2.41	0.55
45:VK:118:CYS:O	45:VK:122:ILE:HG12	2.07	0.55
46:WB:237:THR:HG23	46:WB:241:ARG:HE	1.72	0.55
45:WE:244:PHE:HB2	45:WE:356:ASN:HD21	1.71	0.55
46:WJ:309:ARG:NH2	46:WJ:426:GLN:O	2.28	0.55
13:1U:447:GLU:HG2	45:WE:279:GLU:HB3	1.89	0.55
25:3R:112:GLU:OE1	46:BN:362:LYS:HG2	2.07	0.55
37:5H:27:ARG:NH1	45:OK:221:ARG:HH12	2.05	0.55
10:5Q:15:TYR:CE2	10:5Q:17:ILE:HB	2.42	0.55
10:5Q:73:LEU:HD22	10:5Q:169:ASP:HB2	1.89	0.55
34:5R:487:GLU:HB3	34:5R:523:PHE:HZ	1.70	0.55
34:6R:444:ILE:HD11	34:6R:503:PHE:HD2	1.72	0.55
45:AC:55:GLU:HG3	45:AC:57:GLY:H	1.71	0.55
45:BG:70:LEU:HD12	45:BG:145:THR:HG22	1.89	0.55
46:CB:289:LEU:HD13	46:CB:365:VAL:HG23	1.89	0.55
46:CH:45:GLU:OE1	46:CH:46:ARG:HD3	2.07	0.55
45:CI:69:ASP:OD2	45:CI:71:GLU:HG2	2.07	0.55
46:CJ:99:ASN:HA	46:CJ:142:GLY:H	1.71	0.55
46:CJ:140:GLY:HA2	46:CJ:181:GLU:OE2	2.07	0.55
46:CL:287:PRO:O	46:CL:290:THR:HG22	2.07	0.55
46:CL:314:SER:HA	46:CL:350:LYS:HB3	1.89	0.55
45:DA:108:TYR:HA	45:DA:112:LYS:HE3	1.88	0.55
45:DG:123:ARG:NH1	45:DG:161:TYR:OH	2.38	0.55
46:DH:167:PHE:HD2	46:DH:202:ILE:HD11	1.72	0.55
46:DH:210:ILE:HD11	46:DH:299:MET:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DJ:6:HIS:O	46:DJ:63:ALA:HA	2.07	0.55
46:DN:257:LEU:HD11	46:DN:314:SER:HB2	1.89	0.55
46:FN:387:ALA:O	46:FN:390:ARG:NH1	2.40	0.55
46:GD:5:VAL:HG12	46:GD:62:ARG:HD3	1.89	0.55
46:GL:293:MET:HG3	46:GL:294:PHE:HD1	1.71	0.55
45:HA:116:ASP:OD1	45:HA:117:LEU:N	2.39	0.55
46:HF:222:TYR:O	46:HF:226:ASN:ND2	2.24	0.55
46:HJ:226:ASN:ND2	49:HJ:501:GDP:HN1	1.99	0.55
46:IB:143:THR:O	46:IB:147:MET:HE3	2.06	0.55
46:ID:67:ASP:O	46:ID:92:PHE:HA	2.07	0.55
45:IG:140:SER:OG	47:IG:501:GTP:O2B	2.24	0.55
45:IK:387:VAL:HA	45:IK:390:ARG:HG2	1.89	0.55
46:JF:211:CYS:HB3	46:JF:217:LEU:HD21	1.89	0.55
45:JG:311:LYS:HE3	45:JG:342:GLN:HG3	1.89	0.55
45:JI:180:ALA:HA	46:JJ:350:LYS:HZ3	1.72	0.55
45:JK:127:ASP:OD1	45:JK:128:ASN:N	2.39	0.55
45:KA:46:ASP:O	45:KA:48:ALA:N	2.40	0.55
45:KA:55:GLU:O	45:LA:285:GLN:NE2	2.35	0.55
45:KC:103:PHE:HB2	45:KC:186:ASN:HB3	1.88	0.55
45:KM:301:MET:HG3	45:KM:303:ALA:H	1.71	0.55
45:LI:210:TYR:HE1	45:LI:227:LEU:HD11	1.71	0.55
46:LJ:334:GLN:NE2	46:LJ:348:ASN:OD1	2.39	0.55
46:ML:102:ALA:HB2	46:ML:398:TYR:HD1	1.70	0.55
46:ML:295:ASP:OD2	46:ML:297:LYS:HG2	2.06	0.55
46:NF:67:ASP:OD2	46:NF:68:LEU:N	2.40	0.55
46:OB:139:LEU:HD13	46:OB:168:SER:HB3	1.89	0.55
45:OI:147:SER:HB2	45:OI:190:SER:HB2	1.88	0.55
45:PC:100:ALA:HA	46:PD:252:LYS:HG2	1.89	0.55
46:PL:389:PHE:HD2	46:PL:390:ARG:HH22	1.55	0.55
45:PM:96:LYS:HZ1	46:PN:129:CYS:HB3	1.71	0.55
46:QD:32:PRO:O	46:QD:83:GLN:NE2	2.39	0.55
46:QD:256:ASN:HD21	45:QE:181:VAL:H	1.55	0.55
46:QF:254:ALA:O	46:QF:258:ILE:HG12	2.07	0.55
45:RA:288:VAL:HG11	45:RA:327:ASP:HB3	1.88	0.55
45:RC:223:THR:HG23	45:RC:225:THR:H	1.72	0.55
46:RH:262:ARG:NH1	46:RH:421:GLU:OE1	2.39	0.55
46:SF:293:MET:CE	46:SF:367:PHE:HB3	2.37	0.55
46:SJ:200:MET:HE1	46:SJ:268:ILE:N	2.22	0.55
45:SM:136:LEU:HD22	45:SM:169:PHE:HE2	1.70	0.55
45:TA:274:PRO:HG2	45:TA:371:VAL:HG11	1.89	0.55
46:TF:156:ARG:HH12	46:TF:160:PRO:HA	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TH:319:GLY:HA3	46:TH:362:LYS:O	2.06	0.55
46:TJ:86:ARG:HE	46:UJ:282:ARG:NH1	2.04	0.55
46:TJ:330:MET:SD	46:TJ:349:ILE:HG21	2.47	0.55
46:TJ:372:THR:HA	46:TJ:422:TYR:CE2	2.42	0.55
46:TL:275:SER:O	46:TL:279:GLN:N	2.40	0.55
45:TM:192:HIS:CD2	45:TM:421:ALA:HA	2.42	0.55
45:UA:328:VAL:HG11	45:UA:353:VAL:HG21	1.89	0.55
46:UD:189:VAL:HA	46:UD:192:LEU:HB2	1.87	0.55
45:UE:2:ARG:HA	45:UE:133:GLN:HE22	1.71	0.55
46:UH:276:ARG:NH1	46:UH:276:ARG:O	2.39	0.55
46:UJ:273:LEU:N	46:UJ:292:GLN:OE1	2.38	0.55
46:UN:66:MET:HG2	46:UN:116:VAL:HG21	1.89	0.55
46:VL:173:PRO:HA	46:VL:176:SER:HB3	1.89	0.55
46:WD:99:ASN:HA	46:WD:142:GLY:H	1.72	0.55
46:WD:286:VAL:C	46:WD:329:GLN:HE22	2.10	0.55
45:WI:224:TYR:HD1	45:WI:227:LEU:HD12	1.72	0.55
15:0X:3:ARG:HD2	46:MD:15:GLN:NE2	2.21	0.55
7:1G:178:LYS:HE2	45:LA:329:ASN:HB2	1.88	0.55
19:1J:56:PRO:HA	45:IC:221:ARG:HB2	1.89	0.55
23:1O:267:ALA:HB3	45:UA:281:ALA:HB3	1.88	0.55
14:1V:113:ARG:HE	45:LI:196:GLU:HA	1.69	0.55
26:1W:68:LEU:HD12	15:4X:138:LYS:HG2	1.87	0.55
37:5F:123:ARG:HG3	45:OE:372:MET:SD	2.47	0.55
37:5F:184:GLN:O	37:5F:188:GLN:HB2	2.07	0.55
34:5R:574:ARG:HA	34:5R:574:ARG:NH1	2.21	0.55
45:AA:118:CYS:O	45:AA:122:ILE:HG12	2.07	0.55
46:AD:376:GLU:OE1	46:AD:380:ARG:NH2	2.40	0.55
45:AE:11:GLN:HG3	45:AE:74:VAL:HG11	1.89	0.55
46:BD:87:PRO:HD2	46:CB:281:TYR:HD1	1.72	0.55
45:BK:387:VAL:HA	45:BK:390:ARG:HG2	1.90	0.55
45:BM:207:GLU:HA	45:BM:210:TYR:HB2	1.88	0.55
46:BN:235:GLY:HA2	46:BN:318:ARG:HH21	1.72	0.55
45:CI:275:ILE:O	45:CI:276:ILE:HD13	2.07	0.55
46:CN:42:LEU:HA	46:CN:45:GLU:HG3	1.89	0.55
46:DD:257:LEU:HD11	46:DD:314:SER:HB2	1.89	0.55
46:DD:288:GLU:N	46:DD:288:GLU:OE2	2.40	0.55
45:DE:439:THR:HB	46:DF:390:ARG:NH1	2.22	0.55
46:DF:324:LYS:HE3	45:DG:222:PRO:HG2	1.88	0.55
46:DF:392:LYS:HG3	46:DF:395:LEU:HD13	1.89	0.55
45:DG:141:VAL:HG11	45:DG:172:TYR:HD1	1.72	0.55
45:EA:206:ASN:OD1	47:EA:501:GTP:N2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:150:LEU:HG	46:EF:154:LYS:NZ	2.20	0.55
46:EF:260:PHE:HB2	46:EF:263:LEU:HD13	1.88	0.55
45:EM:11:GLN:HA	45:EM:14:ILE:HG22	1.88	0.55
46:EN:309:ARG:NH2	46:EN:426:GLN:O	2.37	0.55
46:FF:229:VAL:HG12	46:FF:233:MET:HE2	1.89	0.55
45:GA:238:LEU:HD12	45:GA:318:MET:HE1	1.89	0.55
45:GA:258:ASN:HA	46:GD:179:VAL:HG11	1.87	0.55
46:GD:299:MET:HG3	46:GD:301:CYS:H	1.72	0.55
45:GE:187:SER:O	45:GE:191:THR:HG23	2.07	0.55
46:GL:68:LEU:HB3	46:GL:96:GLY:HA2	1.88	0.55
45:HC:205:ASP:OD2	45:HC:303:ALA:HA	2.06	0.55
46:HF:1:MET:O	46:HF:2:ARG:HG2	2.07	0.55
45:HK:2:ARG:HG3	45:HK:133:GLN:NE2	2.22	0.55
46:HN:42:LEU:HD22	46:HN:356:ILE:HD11	1.89	0.55
46:HN:207:LEU:HD13	46:HN:225:LEU:HB3	1.89	0.55
46:IB:178:THR:HB	46:IB:181:GLU:HG3	1.89	0.55
46:ID:204:ASN:OD1	46:ID:205:GLU:N	2.40	0.55
45:IE:288:VAL:HG11	45:IE:327:ASP:HB3	1.88	0.55
45:IE:408:TYR:HD1	45:IE:418:PHE:HZ	1.55	0.55
45:II:180:ALA:HA	46:IJ:350:LYS:HZ1	1.70	0.55
46:JJ:326:VAL:O	46:JJ:330:MET:HG2	2.06	0.55
46:JN:222:TYR:HA	46:JN:225:LEU:HD12	1.88	0.55
46:KD:318:ARG:HB2	46:KD:364:ALA:HB3	1.89	0.55
45:KE:98:ASP:OD2	45:KE:99:ALA:N	2.39	0.55
46:KH:386:THR:O	46:KH:390:ARG:HG2	2.07	0.55
45:LC:221:ARG:NH1	46:LD:322:SER:H	2.05	0.55
45:LC:301:MET:HE3	45:LC:301:MET:HA	1.89	0.55
46:LH:286:VAL:HG21	46:LH:325:GLU:HB3	1.88	0.55
46:LJ:8:GLN:HE22	46:LJ:17:GLY:HA3	1.71	0.55
45:LK:60:LYS:NZ	45:LK:85:GLN:O	2.25	0.55
45:LM:69:ASP:O	45:LM:94:SER:HA	2.06	0.55
46:MB:173:PRO:HG2	46:MB:380:ARG:HE	1.72	0.55
45:MC:288:VAL:HA	45:MC:291:ILE:HG12	1.89	0.55
45:ME:210:TYR:HB3	46:MF:324:LYS:NZ	2.22	0.55
46:MN:49:VAL:HG21	46:MN:241:ARG:HG2	1.89	0.55
45:NA:19:ALA:HA	45:NA:22:GLU:OE1	2.05	0.55
45:NC:54:SER:HB3	45:NC:64:ARG:HE	1.72	0.55
46:ND:150:LEU:HD23	46:ND:154:LYS:NZ	2.22	0.55
45:NE:120:ASP:O	45:NE:124:LYS:HG2	2.07	0.55
45:NM:317:MET:HE1	45:NM:377:MET:HA	1.89	0.55
46:OD:48:ASN:O	46:OD:62:ARG:NH1	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OE:251:ASP:OD1	45:OE:252:ILE:N	2.38	0.55
46:PB:178:THR:HB	46:PB:181:GLU:HG3	1.88	0.55
45:PE:229:ARG:HH12	45:PE:363:VAL:HG11	1.71	0.55
45:PG:128:ASN:ND2	45:QG:290:GLU:OE1	2.40	0.55
45:PM:90:GLU:HG3	45:PM:121:ARG:HH12	1.72	0.55
45:PM:210:TYR:CD2	46:PN:324:LYS:HG3	2.42	0.55
45:PM:230:LEU:HA	45:PM:233:GLN:NE2	2.22	0.55
45:QA:284:GLU:HG3	45:QA:286:LEU:HD22	1.89	0.55
45:QA:319:TYR:CE2	45:QA:328:VAL:HG22	2.42	0.55
46:QD:86:ARG:NH1	46:QD:88:ASP:HB3	2.21	0.55
46:QF:51:TYR:HB3	46:QF:59:TYR:HB3	1.88	0.55
46:QF:389:PHE:HZ	46:QF:405:GLU:HG3	1.72	0.55
46:QH:152:ILE:HG23	46:QH:164:MET:SD	2.47	0.55
46:QH:258:ILE:HD11	45:QI:407:TRP:HZ2	1.71	0.55
46:QL:31:ASP:OD2	46:QL:37:HIS:ND1	2.40	0.55
45:QM:284:GLU:HG3	45:QM:286:LEU:HD22	1.89	0.55
46:QN:166:THR:HG21	46:QN:192:LEU:HD11	1.89	0.55
46:SF:25:SER:HG	46:SF:51:TYR:HH	1.52	0.55
46:SH:1:MET:SD	46:SH:2:ARG:HG2	2.47	0.55
46:SN:262:ARG:NH1	46:SN:421:GLU:OE1	2.40	0.55
46:TB:241:ARG:NH1	46:TB:242:PHE:HD2	2.04	0.55
45:TC:33:ASP:HA	45:TC:85:GLN:HE21	1.70	0.55
46:TD:221:THR:HG23	46:TD:224:ASP:H	1.72	0.55
46:TF:358:PRO:HD2	46:TF:361:LEU:HD11	1.89	0.55
45:TG:174:SER:HB2	45:TG:177:VAL:HB	1.89	0.55
46:TL:103:LYS:HB2	46:TL:401:GLU:OE1	2.07	0.55
45:TM:69:ASP:OD1	45:TM:70:LEU:N	2.39	0.55
46:TN:229:VAL:HG12	46:TN:233:MET:HE2	1.89	0.55
46:UF:376:GLU:O	46:UF:380:ARG:HG2	2.06	0.55
46:VH:221:THR:HG23	46:VH:224:ASP:H	1.71	0.55
45:VK:70:LEU:HD13	45:VK:95:GLY:HA3	1.89	0.55
46:WL:226:ASN:HA	46:WL:229:VAL:HG12	1.89	0.55
46:WN:309:ARG:NH2	46:WN:426:GLN:O	2.32	0.55
4:OD:11:VAL:HG11	45:CC:79:ARG:HD3	1.89	0.54
6:OF:187:PRO:HA	45:EE:84:ARG:HD2	1.89	0.54
18:1I:27:TRP:CH2	45:IC:89:PRO:HB3	2.42	0.54
14:1V:221:LYS:NZ	46:VL:83:GLN:HG3	2.23	0.54
4:2D:82:TYR:HB3	46:EJ:40:SER:HB3	1.88	0.54
20:2K:401:LYS:HE3	46:FH:56:GLY:C	2.27	0.54
21:2L:900:HIS:HA	46:CJ:320:ARG:HH21	1.72	0.54
22:2M:67:TYR:CE1	46:IJ:80:PRO:HB3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:2R:404:ARG:NH2	45:DG:57:GLY:O	2.35	0.54
36:5A:172:LEU:HA	36:5A:175:LYS:HZ3	1.71	0.54
37:5G:168:LEU:HB3	37:5G:170:LYS:NZ	2.23	0.54
37:5H:26:GLY:HA2	45:OK:221:ARG:NH1	2.12	0.54
41:6H:251:ASP:H	46:FF:360:GLY:HA2	1.72	0.54
34:7R:219:LYS:NZ	46:BD:78:ALA:HB3	2.22	0.54
45:AE:46:ASP:OD1	45:AE:47:ASP:N	2.40	0.54
46:AH:252:LYS:HG2	46:AH:350:LYS:HE3	1.89	0.54
46:AJ:245:GLN:HE21	46:AJ:245:GLN:HA	1.73	0.54
46:AJ:294:PHE:CD2	46:AJ:333:VAL:HG21	2.40	0.54
45:BI:98:ASP:O	45:BI:105:ARG:NH2	2.32	0.54
45:BI:345:ASP:OD1	45:BI:346:TRP:N	2.40	0.54
46:BN:139:LEU:HD13	46:BN:168:SER:HB3	1.88	0.54
46:CD:6:HIS:O	46:CD:63:ALA:HA	2.06	0.54
45:CM:310:GLY:HA3	45:CM:383:ALA:HB2	1.89	0.54
46:DB:68:LEU:HD12	46:DB:93:GLY:HA3	1.88	0.54
46:DB:167:PHE:HE1	46:DB:233:MET:HG3	1.72	0.54
45:DE:36:MET:SD	45:DE:37:PRO:HD2	2.47	0.54
46:DF:238:CYS:SG	46:DF:239:CYS:N	2.80	0.54
45:DI:326:LYS:HZ3	46:DJ:219:THR:HA	1.73	0.54
46:DJ:286:VAL:C	46:DJ:329:GLN:HE22	2.09	0.54
45:DK:50:ASN:O	45:DK:64:ARG:NH2	2.40	0.54
46:DL:149:THR:HA	46:DL:152:ILE:HD12	1.88	0.54
46:EB:73:MET:HA	46:EB:76:VAL:HG12	1.88	0.54
45:EE:253:THR:HA	45:EE:256:GLN:NE2	2.22	0.54
46:EJ:407:GLU:N	46:EJ:407:GLU:OE2	2.37	0.54
45:FE:55:GLU:HG3	45:FE:57:GLY:H	1.72	0.54
45:FG:387:VAL:HA	45:FG:390:ARG:HG2	1.88	0.54
46:FH:72:THR:HG23	46:FH:73:MET:HE2	1.89	0.54
45:FI:346:TRP:CD1	46:FL:391:ARG:HG3	2.42	0.54
45:FK:74:VAL:O	45:FK:77:GLU:HG2	2.07	0.54
45:FK:77:GLU:HA	45:FK:80:THR:HG22	1.89	0.54
45:GM:135:PHE:HB2	45:GM:166:LYS:HG2	1.89	0.54
46:GN:207:LEU:HB3	46:GN:225:LEU:HD22	1.89	0.54
46:GN:262:ARG:NH1	46:GN:421:GLU:OE1	2.39	0.54
45:HI:204:LEU:HD13	45:HI:231:ILE:HD12	1.89	0.54
45:IA:27:GLU:HG2	45:IA:361:THR:HG21	1.89	0.54
46:IB:279:GLN:NE2	46:IB:280:GLN:HG2	2.22	0.54
45:IE:8:HIS:HB2	45:IE:67:PHE:HD2	1.71	0.54
45:IE:101:ASN:HA	45:IE:144:GLY:H	1.71	0.54
45:IG:398:MET:HE3	46:IH:346:PRO:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:II:301:MET:HA	45:II:301:MET:HE2	1.89	0.54
45:IM:296:PHE:HE2	45:IM:335:ILE:HG13	1.71	0.54
45:JA:7:ILE:HB	45:JA:137:VAL:HG12	1.89	0.54
45:JI:80:THR:O	45:JI:84:ARG:NH2	2.40	0.54
45:JK:133:GLN:HB3	45:JK:252:ILE:HD11	1.89	0.54
46:KF:222:TYR:O	46:KF:226:ASN:ND2	2.40	0.54
46:KH:211:CYS:SG	46:KH:220:PRO:HB3	2.48	0.54
45:KK:263:PRO:HD3	46:KN:396:HIS:CG	2.41	0.54
46:LD:262:ARG:NH2	46:LD:421:GLU:OE1	2.40	0.54
45:MA:118:CYS:O	45:MA:122:ILE:HG12	2.06	0.54
46:MB:316:LEU:HD13	46:MB:352:SER:HB2	1.88	0.54
46:MD:318:ARG:O	46:MD:363:MET:HA	2.07	0.54
45:MK:69:ASP:OD1	45:MK:70:LEU:N	2.39	0.54
46:NB:32:PRO:HA	46:NB:84:LEU:HD21	1.89	0.54
46:NB:48:ASN:O	46:NB:62:ARG:NH2	2.24	0.54
46:NF:318:ARG:HB3	46:NF:357:PRO:HA	1.88	0.54
45:NK:17:GLY:HA2	45:NK:20:CYS:SG	2.47	0.54
45:NM:328:VAL:HG11	45:NM:353:VAL:HG21	1.89	0.54
45:OC:231:ILE:O	45:OC:235:ILE:HG12	2.06	0.54
46:OD:105:HIS:CE1	46:OD:150:LEU:HD12	2.41	0.54
45:OM:206:ASN:OD1	45:OM:207:GLU:N	2.40	0.54
45:PC:263:PRO:HD3	46:PF:396:HIS:CE1	2.41	0.54
46:PD:273:LEU:N	46:PD:292:GLN:HE22	2.03	0.54
45:PE:171:ILE:O	45:PE:171:ILE:HG13	2.06	0.54
46:PH:189:VAL:HA	46:PH:192:LEU:HB2	1.88	0.54
46:PN:52:ASN:OD1	46:PN:62:ARG:NH2	2.40	0.54
46:QB:66:MET:SD	46:QB:116:VAL:HG21	2.46	0.54
46:QD:55:THR:HG23	46:RD:283:ALA:HA	1.88	0.54
45:QE:399:TYR:O	45:QE:402:ARG:NH1	2.40	0.54
46:QF:58:ARG:NH1	46:RF:280:GLN:OE1	2.41	0.54
46:QH:2:ARG:NH1	45:QI:97:GLU:HA	2.19	0.54
45:QI:55:GLU:O	45:RI:285:GLN:NE2	2.32	0.54
45:QK:174:SER:OG	45:QK:207:GLU:OE1	2.24	0.54
46:RJ:251:ARG:HH21	45:RK:105:ARG:HH12	1.54	0.54
46:RJ:260:PHE:HB2	46:RJ:263:LEU:HD13	1.89	0.54
45:SA:242:LEU:HD11	45:SA:252:ILE:HG13	1.88	0.54
46:SD:190:HIS:CE1	46:SD:414:ASN:HD22	2.25	0.54
46:SF:282:ARG:NH1	46:SF:283:ALA:H	2.05	0.54
45:SK:98:ASP:OD1	45:SK:99:ALA:N	2.39	0.54
45:TK:102:ASN:ND2	45:TK:105:ARG:HG3	2.21	0.54
46:TL:375:GLN:O	46:TL:379:LYS:HG2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:289:LEU:HD13	46:TN:365:VAL:HG23	1.88	0.54
46:UB:252:LYS:HA	45:UC:100:ALA:HB1	1.89	0.54
46:UB:324:LYS:O	46:UB:328:GLU:OE1	2.25	0.54
46:UF:67:ASP:O	46:UF:92:PHE:HA	2.06	0.54
45:UG:319:TYR:HB3	45:UG:323:VAL:HG11	1.89	0.54
46:UN:178:THR:HG22	46:UN:180:VAL:H	1.71	0.54
46:VD:86:ARG:NH2	46:VD:89:ASN:OD1	2.40	0.54
46:VH:139:LEU:HD12	46:VH:188:SER:OG	2.07	0.54
45:VI:31:GLN:OE1	45:VI:31:GLN:N	2.40	0.54
45:WA:101:ASN:HB2	46:WB:256:ASN:HD21	1.72	0.54
46:WB:344:TRP:HB3	46:WB:430:ALA:HB2	1.89	0.54
45:WE:111:GLY:O	45:WE:115:VAL:HG13	2.07	0.54
45:WG:36:MET:HE1	45:WG:40:LYS:HE3	1.89	0.54
45:WG:337:THR:O	45:WG:339:ARG:NH1	2.40	0.54
45:WI:259:LEU:HD21	45:WI:316:SER:HB3	1.89	0.54
11:1S:46:TRP:CZ3	45:WC:89:PRO:HD3	2.41	0.54
21:2L:408:LEU:HD11	46:CN:362:LYS:HE3	1.89	0.54
36:5A:22:TYR:CD1	36:5A:61:SER:HA	2.42	0.54
40:6G:206:LYS:NZ	40:6G:207:TYR:O	2.39	0.54
40:6G:284:LYS:O	40:6G:288:LYS:HG2	2.08	0.54
45:AK:328:VAL:O	45:AK:332:ILE:HG12	2.07	0.54
46:BD:290:THR:HA	46:BD:293:MET:HG2	1.90	0.54
46:BH:158:GLU:HG3	46:BH:159:TYR:CD1	2.42	0.54
45:BK:326:LYS:NZ	46:BN:208:TYR:HB3	2.22	0.54
45:BK:328:VAL:O	45:BK:332:ILE:HG12	2.07	0.54
45:BM:226:ASN:HA	45:BM:229:ARG:HD2	1.89	0.54
46:BN:208:TYR:HE2	46:BN:225:LEU:HD11	1.72	0.54
46:CD:293:MET:HE2	46:CD:367:PHE:HB2	1.89	0.54
45:CG:8:HIS:CD2	45:CG:138:PHE:HD1	2.24	0.54
45:CI:167:LEU:HD13	45:CI:200:VAL:HB	1.90	0.54
45:CM:212:ILE:HD13	45:CM:215:ARG:HH22	1.72	0.54
45:CM:268:MET:HB3	45:CM:378:ILE:HD11	1.89	0.54
46:DF:58:ARG:NH1	46:EF:280:GLN:OE1	2.40	0.54
45:DI:69:ASP:HB3	45:DI:75:ILE:HD11	1.89	0.54
46:DL:156:ARG:NH1	46:DL:162:ARG:O	2.40	0.54
46:ED:212:PHE:HB3	46:ED:213:ARG:HH21	1.72	0.54
45:EE:319:TYR:CE2	45:EE:328:VAL:HG22	2.42	0.54
46:EF:244:GLY:HA3	46:EF:354:CYS:HA	1.88	0.54
46:EH:3:GLU:HG3	46:EH:62:ARG:NH1	2.22	0.54
46:EH:324:LYS:O	46:EH:328:GLU:HG2	2.08	0.54
45:EM:256:GLN:HE21	46:EN:397:TRP:HZ2	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FJ:273:LEU:H	46:FJ:292:GLN:HE22	1.56	0.54
46:FL:73:MET:HA	46:FL:76:VAL:HG12	1.89	0.54
45:FM:3:GLU:O	45:FM:133:GLN:N	2.34	0.54
45:GE:222:PRO:HD2	46:GF:324:LYS:HZ3	1.72	0.54
46:GN:42:LEU:HA	46:GN:45:GLU:HG3	1.89	0.54
46:HH:417:ASP:O	46:HH:421:GLU:HG3	2.07	0.54
46:ID:73:MET:HG2	46:ID:90:PHE:HD1	1.71	0.54
46:JH:5:VAL:HG12	46:JH:62:ARG:HD3	1.88	0.54
46:JL:313:ALA:HB1	46:JL:367:PHE:HE1	1.73	0.54
46:JN:268:ILE:HG22	46:JN:368:VAL:HG22	1.89	0.54
46:KB:375:GLN:HA	46:KB:378:PHE:HD2	1.72	0.54
46:KF:62:ARG:HB2	46:KF:123:GLU:OE1	2.07	0.54
46:KF:294:PHE:HD2	46:KF:333:VAL:HG21	1.71	0.54
45:KK:265:ILE:HG22	45:KK:432:TYR:HE1	1.72	0.54
46:LF:10:GLY:O	46:LF:14:ASN:ND2	2.39	0.54
46:LN:372:THR:HA	46:LN:422:TYR:HE2	1.71	0.54
45:MA:221:ARG:NH2	46:MB:322:SER:OG	2.39	0.54
45:NG:123:ARG:NH2	45:OG:293:ASN:OD1	2.40	0.54
45:NM:72:PRO:HD2	46:NN:2:ARG:NH2	2.21	0.54
45:NM:121:ARG:HH11	45:NM:121:ARG:HA	1.72	0.54
45:OA:352:LYS:HA	46:OD:177:ASP:O	2.07	0.54
45:OC:108:TYR:O	45:OC:112:LYS:NZ	2.33	0.54
45:OC:326:LYS:HE2	46:OF:220:PRO:HB2	1.89	0.54
46:OD:178:THR:O	46:OD:181:GLU:HG2	2.08	0.54
46:OF:316:LEU:HD13	46:OF:352:SER:HB2	1.87	0.54
45:OK:231:ILE:O	45:OK:235:ILE:HG12	2.07	0.54
46:ON:87:PRO:HG2	46:PN:278:SER:HB3	1.88	0.54
45:PE:50:ASN:O	45:PE:64:ARG:NH1	2.29	0.54
46:PF:153:SER:HB3	46:PF:154:LYS:NZ	2.22	0.54
45:PI:328:VAL:O	45:PI:332:ILE:HG12	2.06	0.54
46:PJ:201:VAL:HG13	46:PJ:301:CYS:SG	2.48	0.54
46:PJ:294:PHE:CD2	46:PJ:333:VAL:HG21	2.42	0.54
46:QF:347:ASN:ND2	45:QG:178:SER:OG	2.26	0.54
45:QK:195:LEU:HD21	45:QK:428:LEU:HD21	1.89	0.54
45:QK:204:LEU:HD23	45:QK:231:ILE:HG12	1.88	0.54
45:QK:349:THR:HG23	46:QL:179:VAL:HA	1.90	0.54
45:RC:408:TYR:HB3	45:RC:413:MET:SD	2.47	0.54
46:RD:178:THR:HB	46:RD:181:GLU:HG3	1.87	0.54
46:RD:358:PRO:HB2	46:RD:361:LEU:HD13	1.88	0.54
45:RE:8:HIS:CD2	45:RE:138:PHE:HD2	2.25	0.54
46:RL:169:VAL:HG12	46:RL:202:ILE:HG13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:67:ASP:O	46:SF:92:PHE:HA	2.06	0.54
46:SH:58:ARG:HD2	46:TH:280:GLN:HE22	1.72	0.54
46:SL:8:GLN:HE21	46:SL:65:LEU:HG	1.72	0.54
46:SL:9:GLY:HA2	46:SL:66:MET:HB2	1.88	0.54
45:SM:136:LEU:HD23	45:SM:167:LEU:HB2	1.90	0.54
46:TB:28:HIS:HD1	46:TB:51:TYR:HE2	1.55	0.54
46:UF:113:ILE:HG21	46:UF:150:LEU:HD22	1.88	0.54
46:UF:174:LYS:HB2	46:UF:205:GLU:HG2	1.89	0.54
45:VA:121:ARG:HA	45:VA:124:LYS:HZ2	1.72	0.54
46:VB:86:ARG:HH11	46:VB:88:ASP:HB3	1.71	0.54
45:VE:210:TYR:CD1	46:VF:324:LYS:HE3	2.42	0.54
45:VE:222:PRO:HG2	46:VF:324:LYS:HG2	1.88	0.54
46:VF:67:ASP:O	46:VF:92:PHE:HA	2.07	0.54
45:VG:21:TRP:CZ2	45:VG:65:ALA:HB2	2.42	0.54
45:VI:2:ARG:HH22	46:VL:70:PRO:HD2	1.72	0.54
45:VK:104:ALA:HB2	45:VK:413:MET:HG2	1.90	0.54
46:WH:19:LYS:HE2	46:WH:227:HIS:ND1	2.22	0.54
46:WJ:31:ASP:OD2	46:WJ:33:THR:OG1	2.24	0.54
45:WM:105:ARG:HA	45:WM:109:THR:HB	1.88	0.54
45:DC:244:PHE:HB2	45:DC:356:ASN:HD21	1.72	0.54
45:DC:258:ASN:ND2	45:DC:352:LYS:HE3	2.20	0.54
3:OC:38:PRO:HD2	45:DI:89:PRO:HB3	1.89	0.54
9:ON:16:ILE:HG22	46:IN:48:ASN:HD22	1.72	0.54
8:1H:60:ARG:NH1	46:HN:32:PRO:HB2	2.20	0.54
24:1P:168:ARG:HH12	45:TI:281:ALA:HB3	1.72	0.54
13:1U:224:ARG:HH12	45:WC:40:LYS:HE2	1.70	0.54
1:3A:125:LEU:N	46:AN:276:ARG:HH12	2.05	0.54
34:5R:261:LEU:HD11	34:5R:271:LEU:HD12	1.88	0.54
10:6Q:75:PHE:HD1	10:6Q:133:GLN:HE21	1.54	0.54
46:AB:272:PRO:HG3	46:AB:284:LEU:HD11	1.89	0.54
45:AC:184:PRO:O	45:AC:188:ILE:HG12	2.08	0.54
46:CB:324:LYS:NZ	45:CC:220:GLU:O	2.38	0.54
46:CF:3:GLU:HG3	46:CF:49:VAL:HA	1.89	0.54
46:CL:130:LEU:HD11	46:CL:133:PHE:HE2	1.72	0.54
46:DD:289:LEU:HD13	46:DD:365:VAL:HG23	1.89	0.54
46:DF:174:LYS:HB2	46:DF:205:GLU:OE2	2.07	0.54
46:DH:326:VAL:HG21	46:DH:353:ILE:HD11	1.89	0.54
45:DI:71:GLU:HB3	45:DI:98:ASP:HB3	1.89	0.54
45:DM:262:TYR:CD1	45:DM:263:PRO:HD2	2.42	0.54
45:EA:254:GLU:HG2	46:EB:98:GLY:HA2	1.88	0.54
46:ED:221:THR:HG23	46:ED:224:ASP:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:344:TRP:HB3	46:EF:430:ALA:HB2	1.89	0.54
46:EN:226:ASN:HD21	49:EN:501:GDP:HN1	1.55	0.54
46:FB:60:VAL:HG21	46:FB:86:ARG:HG2	1.88	0.54
45:FC:55:GLU:HG3	45:FC:57:GLY:H	1.73	0.54
46:FD:133:PHE:HB2	46:FD:164:MET:SD	2.48	0.54
46:FH:394:PHE:HA	46:FH:397:TRP:CZ3	2.42	0.54
45:FI:181:VAL:HG22	46:FJ:256:ASN:OD1	2.07	0.54
46:FN:134:GLN:HE22	46:FN:136:THR:HG22	1.71	0.54
45:GE:69:ASP:OD1	45:GE:70:LEU:N	2.41	0.54
45:GG:242:LEU:HD11	45:GG:252:ILE:HG12	1.89	0.54
45:GI:96:LYS:NZ	46:GJ:1:MET:SD	2.75	0.54
46:GJ:204:ASN:O	46:GJ:208:TYR:HD2	1.89	0.54
46:HB:178:THR:HB	46:HB:181:GLU:HG3	1.89	0.54
45:HE:352:LYS:HZ1	46:HH:178:THR:HA	1.72	0.54
46:HH:67:ASP:O	46:HH:92:PHE:HA	2.07	0.54
45:II:119:LEU:HD11	45:II:156:ARG:HB3	1.89	0.54
45:II:407:TRP:CZ3	46:IJ:255:VAL:HA	2.42	0.54
45:IK:187:SER:O	45:IK:191:THR:HG23	2.07	0.54
45:JC:331:SER:O	45:JC:335:ILE:HG12	2.06	0.54
46:JD:20:PHE:HA	46:JD:230:SER:OG	2.08	0.54
45:JM:210:TYR:CE1	46:JN:324:LYS:HB3	2.43	0.54
45:KA:338:LYS:NZ	45:KA:340:THR:H	2.05	0.54
45:KK:141:VAL:HG21	45:KK:172:TYR:HE1	1.72	0.54
46:KL:68:LEU:HD23	46:KL:143:THR:OG1	2.07	0.54
46:KN:10:GLY:O	46:KN:14:ASN:ND2	2.41	0.54
46:LB:67:ASP:O	46:LB:92:PHE:HA	2.06	0.54
46:LF:86:ARG:HD2	46:MF:281:TYR:HD1	1.72	0.54
45:LG:398:MET:HG2	46:LH:345:ILE:HG22	1.90	0.54
46:LN:211:CYS:SG	46:LN:220:PRO:HB3	2.48	0.54
46:MB:67:ASP:O	46:MB:92:PHE:HA	2.07	0.54
46:MH:99:ASN:HA	46:MH:142:GLY:H	1.72	0.54
46:MH:376:GLU:HA	46:MH:379:LYS:HD3	1.88	0.54
45:MI:208:ALA:O	45:MI:212:ILE:HG12	2.07	0.54
45:MK:118:CYS:O	45:MK:122:ILE:HG12	2.07	0.54
45:NC:98:ASP:OD1	45:NC:99:ALA:N	2.41	0.54
46:ND:183:TYR:HE1	46:ND:388:MET:HB3	1.71	0.54
45:NM:322:ASP:OD1	45:NM:373:ARG:NH1	2.40	0.54
45:OA:136:LEU:HD13	45:OA:167:LEU:HB2	1.88	0.54
46:OF:303:ALA:HB2	46:OF:377:MET:HE1	1.90	0.54
45:OI:205:ASP:OD1	45:OI:303:ALA:HA	2.08	0.54
45:OI:224:TYR:HB2	46:OJ:245:GLN:NE2	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:68:LEU:HB3	46:OJ:96:GLY:HA2	1.89	0.54
45:PA:387:VAL:HA	45:PA:390:ARG:HG2	1.87	0.54
46:PB:226:ASN:HD21	49:PB:501:GDP:HN1	1.55	0.54
45:PC:231:ILE:O	45:PC:235:ILE:HG12	2.07	0.54
45:PE:210:TYR:CD1	46:PF:324:LYS:HG3	2.42	0.54
45:PI:140:SER:OG	47:PI:501:GTP:O2B	2.25	0.54
46:PL:344:TRP:CE3	46:PL:345:ILE:HG23	2.42	0.54
46:PN:109:GLY:HA2	46:PN:112:LEU:HG	1.90	0.54
45:QC:76:ASP:HA	45:QC:79:ARG:HG2	1.90	0.54
45:QG:171:ILE:O	45:QG:171:ILE:HG13	2.06	0.54
46:QL:73:MET:HA	46:QL:76:VAL:HG12	1.90	0.54
46:RB:149:THR:HA	46:RB:152:ILE:HD12	1.89	0.54
45:RC:74:VAL:O	45:RC:78:VAL:HG23	2.07	0.54
45:RE:76:ASP:HA	45:RE:79:ARG:HG2	1.89	0.54
46:RJ:166:THR:HG1	46:RJ:199:CYS:HG	1.49	0.54
46:SH:52:ASN:OD1	46:SH:62:ARG:NH2	2.40	0.54
45:SK:72:PRO:HA	45:SK:75:ILE:HG22	1.89	0.54
46:SL:175:VAL:HG22	46:SL:205:GLU:HB3	1.89	0.54
45:TC:229:ARG:HH11	45:TC:366:GLY:HA2	1.72	0.54
46:TF:222:TYR:O	46:TF:226:ASN:ND2	2.29	0.54
45:TG:223:THR:HG23	45:TG:225:THR:H	1.72	0.54
45:TI:390:ARG:HG3	45:TI:391:LEU:HD12	1.90	0.54
46:TJ:286:VAL:HG23	46:TJ:287:PRO:HD3	1.90	0.54
45:TM:107:HIS:ND1	45:TM:107:HIS:O	2.41	0.54
46:UB:309:ARG:N	46:UB:426:GLN:HE22	2.05	0.54
46:UD:290:THR:HA	46:UD:293:MET:HG3	1.89	0.54
46:UJ:107:THR:OG1	46:UJ:108:GLU:OE1	2.25	0.54
46:UL:248:SER:HA	46:UL:252:LYS:HD2	1.88	0.54
45:VC:101:ASN:HA	45:VC:144:GLY:H	1.71	0.54
46:VF:68:LEU:HB3	46:VF:96:GLY:HA2	1.89	0.54
46:VF:268:ILE:HG22	46:VF:368:VAL:HG22	1.89	0.54
46:VH:150:LEU:O	46:VH:154:LYS:HG2	2.06	0.54
45:WC:167:LEU:HD13	45:WC:200:VAL:HB	1.90	0.54
45:WK:8:HIS:HB2	45:WK:67:PHE:HD2	1.70	0.54
45:WM:402:ARG:HD2	45:WM:405:VAL:HB	1.89	0.54
18:1I:204:GLN:NE2	15:4X:141:PHE:O	2.34	0.54
21:1L:285:ARG:HH12	46:BH:284:LEU:HB2	1.71	0.54
25:1R:458:ILE:HG12	46:FD:276:ARG:HH22	1.71	0.54
24:2P:414:ASN:HB3	46:TL:280:GLN:HE21	1.73	0.54
34:4R:219:LYS:NZ	46:BH:75:SER:O	2.36	0.54
36:5A:130:ASP:OD1	36:5A:131:ARG:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5F:9:TYR:HD2	37:5F:15:THR:HG21	1.73	0.54
10:6Q:26:ASP:HB2	10:6Q:63:ALA:HA	1.88	0.54
46:AB:39:ASP:OD1	46:AB:40:SER:N	2.40	0.54
46:AL:404:ASP:OD1	46:AL:406:MET:HG2	2.08	0.54
46:BD:325:GLU:HA	46:BD:328:GLU:CD	2.28	0.54
45:BG:222:PRO:HD2	46:BH:324:LYS:HG3	1.89	0.54
46:CN:387:ALA:HA	46:CN:390:ARG:HE	1.72	0.54
46:DB:258:ILE:HG13	46:DB:266:PHE:CZ	2.43	0.54
45:DK:79:ARG:O	45:DK:84:ARG:NE	2.40	0.54
45:EE:204:LEU:HD23	45:EE:302:MET:HE1	1.88	0.54
45:EE:320:ARG:HH21	45:EE:360:PRO:HA	1.71	0.54
46:EF:67:ASP:O	46:EF:92:PHE:HA	2.07	0.54
46:EF:293:MET:HE2	46:EF:367:PHE:CD1	2.42	0.54
45:FG:208:ALA:O	45:FG:212:ILE:HG12	2.08	0.54
46:FN:73:MET:HA	46:FN:76:VAL:HG22	1.89	0.54
46:GF:67:ASP:OD2	46:GF:68:LEU:N	2.40	0.54
46:GF:235:GLY:HA3	46:GF:366:THR:HG21	1.89	0.54
45:HG:296:PHE:CE2	45:HG:335:ILE:HG21	2.42	0.54
45:HI:222:PRO:C	46:HJ:324:LYS:HZ3	2.11	0.54
46:HL:148:GLY:O	46:HL:152:ILE:HG12	2.06	0.54
46:IB:207:LEU:HB3	46:IB:225:LEU:HD22	1.89	0.54
46:ID:196:ALA:HB3	46:ID:264:HIS:CE1	2.42	0.54
46:IH:100:ASN:HD22	46:IH:103:LYS:HB2	1.72	0.54
45:II:75:ILE:HG23	45:II:92:LEU:HD23	1.88	0.54
45:IM:268:MET:HB2	45:IM:379:SER:O	2.08	0.54
47:IM:501:GTP:O1G	46:IN:252:LYS:NZ	2.37	0.54
46:KF:267:MET:HG3	46:KF:301:CYS:SG	2.48	0.54
45:KI:33:ASP:OD1	45:KI:34:GLY:N	2.39	0.54
46:LB:6:HIS:O	46:LB:63:ALA:HA	2.07	0.54
46:LD:153:SER:O	46:LD:157:GLU:HG2	2.08	0.54
45:LK:88:HIS:CE1	45:LK:90:GLU:HG2	2.43	0.54
45:LK:371:VAL:HG22	45:LK:373:ARG:H	1.71	0.54
45:LM:387:VAL:HG12	45:LM:390:ARG:HH21	1.72	0.54
46:MD:394:PHE:HA	46:MD:397:TRP:CZ3	2.43	0.54
45:NC:10:GLY:O	45:NC:14:ILE:HG12	2.07	0.54
45:NC:205:ASP:N	45:NC:205:ASP:OD1	2.38	0.54
46:ND:293:MET:HE1	46:ND:317:PHE:HE1	1.71	0.54
46:NF:207:LEU:HB3	46:NF:225:LEU:HD22	1.89	0.54
45:NG:219:ILE:HG13	45:NG:221:ARG:H	1.71	0.54
45:NK:32:PRO:HB3	45:NK:83:TYR:CE1	2.42	0.54
46:NL:248:SER:HA	46:NL:252:LYS:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:91:GLN:HE21	45:NM:121:ARG:NH2	2.05	0.54
45:OC:336:LYS:O	45:OC:339:ARG:NH2	2.40	0.54
45:OC:399:TYR:OH	45:OC:415:GLU:OE2	2.25	0.54
45:OE:108:TYR:O	45:OE:112:LYS:NZ	2.33	0.54
45:OI:387:VAL:HA	45:OI:390:ARG:HG2	1.88	0.54
45:PA:188:ILE:HA	45:PA:191:THR:HG22	1.87	0.54
46:PH:293:MET:HG2	46:PH:365:VAL:HG11	1.88	0.54
45:PI:154:LEU:HD23	45:PI:194:LEU:HG	1.90	0.54
46:PN:150:LEU:HG	46:PN:154:LYS:NZ	2.22	0.54
46:QB:2:ARG:NH2	45:QC:97:GLU:HB2	2.21	0.54
45:QC:133:GLN:HB3	45:QC:252:ILE:HD13	1.90	0.54
45:QE:64:ARG:NH1	45:QE:129:CYS:SG	2.81	0.54
45:QG:288:VAL:HG11	45:QG:327:ASP:HB3	1.88	0.54
46:QL:257:LEU:HD23	46:QL:266:PHE:HE2	1.71	0.54
46:QL:274:THR:HB	46:QL:282:ARG:HH11	1.72	0.54
45:RC:175:PRO:HB3	45:RC:390:ARG:HD2	1.90	0.54
46:RF:99:ASN:HA	46:RF:142:GLY:H	1.71	0.54
45:RI:242:LEU:HD11	45:RI:252:ILE:HG12	1.88	0.54
45:RI:329:ASN:HA	45:RI:332:ILE:HG12	1.90	0.54
45:RK:15:GLN:NE2	47:RK:501:GTP:O6	2.40	0.54
45:RM:135:PHE:HB2	45:RM:166:LYS:HG2	1.90	0.54
45:RM:167:LEU:HG	45:RM:200:VAL:HB	1.89	0.54
46:SF:266:PHE:CE1	46:SF:370:ASN:HB2	2.43	0.54
46:SH:289:LEU:HD13	46:SH:365:VAL:HG23	1.90	0.54
46:SJ:64:ILE:HG13	46:SJ:120:VAL:HG12	1.89	0.54
45:SK:35:GLN:HE22	45:SK:59:GLY:HA3	1.72	0.54
46:TD:12:CYS:O	46:TD:16:ILE:HG12	2.07	0.54
46:TL:103:LYS:HG2	46:TL:107:THR:OG1	2.07	0.54
46:UB:325:GLU:HB2	45:UC:221:ARG:NH1	2.23	0.54
46:UH:173:PRO:HD3	46:UH:380:ARG:NH1	2.23	0.54
45:VA:107:HIS:HA	45:VA:152:LEU:HD11	1.88	0.54
45:VC:145:THR:OG1	47:VC:501:GTP:O1B	2.26	0.54
46:VL:48:ASN:O	46:VL:62:ARG:NH1	2.39	0.54
46:VL:318:ARG:HB2	46:VL:364:ALA:HB3	1.89	0.54
46:WB:148:GLY:O	46:WB:152:ILE:HG12	2.07	0.54
45:WG:419:SER:O	45:WG:423:GLU:HG3	2.07	0.54
46:WH:73:MET:HE3	46:WH:92:PHE:HB3	1.88	0.54
46:WL:130:LEU:HD23	46:WL:162:ARG:HG3	1.90	0.54
45:CE:328:VAL:O	45:CE:332:ILE:HG12	2.08	0.54
1:0A:138:TRP:HZ3	45:AA:81:GLY:HA2	1.73	0.54
19:1J:141:GLY:HA3	45:IE:372:MET:HE1	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2L:549:LEU:HD11	45:BM:367:ASP:HA	1.88	0.54
25:3R:7:LYS:NZ	46:MN:22:GLU:OE1	2.38	0.54
34:4R:80:ARG:NE	45:ME:33:ASP:OD2	2.26	0.54
40:6G:253:HIS:HD2	46:VD:307:HIS:NE2	2.05	0.54
34:6R:570:VAL:HG12	34:6R:585:ILE:HD13	1.89	0.54
45:AC:118:CYS:O	45:AC:122:ILE:HG12	2.07	0.54
45:BC:71:GLU:HB3	46:BD:2:ARG:HH22	1.73	0.54
45:BI:147:SER:HB2	45:BI:190:SER:OG	2.08	0.54
46:BJ:207:LEU:HA	46:BJ:210:ILE:HD12	1.89	0.54
46:BJ:248:SER:HA	46:BJ:252:LYS:HG3	1.88	0.54
45:CA:37:PRO:HB2	45:CA:40:LYS:HB2	1.89	0.54
46:CF:324:LYS:HG3	45:CG:222:PRO:HD2	1.89	0.54
46:DD:238:CYS:SG	46:DD:239:CYS:N	2.81	0.54
46:DH:257:LEU:HD11	46:DH:314:SER:HB2	1.89	0.54
46:DJ:252:LYS:HE2	45:DK:100:ALA:HA	1.89	0.54
46:DL:27:GLU:O	46:DL:43:GLN:NE2	2.40	0.54
46:EB:268:ILE:HG22	46:EB:368:VAL:HG22	1.88	0.54
45:EC:230:LEU:HD13	45:EC:233:GLN:HE22	1.72	0.54
46:ED:375:GLN:HB2	46:ED:379:LYS:HZ2	1.72	0.54
45:EE:69:ASP:OD2	45:EE:70:LEU:N	2.40	0.54
46:EF:210:ILE:O	46:EF:214:THR:OG1	2.19	0.54
45:EG:276:ILE:HD11	45:EG:280:LYS:HG2	1.89	0.54
45:EK:319:TYR:HE2	45:EK:328:VAL:HG13	1.72	0.54
46:EL:107:THR:OG1	46:EL:108:GLU:OE1	2.24	0.54
46:EL:317:PHE:HE1	46:EL:326:VAL:HG13	1.72	0.54
46:EN:22:GLU:HA	46:EN:81:PHE:HD2	1.73	0.54
45:FA:336:LYS:HD3	45:FA:351:PHE:CE1	2.42	0.54
46:FF:334:GLN:HA	46:FF:341:PHE:HE1	1.72	0.54
45:FG:288:VAL:HA	45:FG:291:ILE:HG22	1.90	0.54
46:FJ:22:GLU:HG2	46:FJ:81:PHE:CD2	2.43	0.54
46:GB:223:GLY:O	46:GB:227:HIS:ND1	2.40	0.54
45:GM:76:ASP:OD1	45:GM:79:ARG:NH2	2.40	0.54
46:HD:302:ALA:HB3	46:HD:377:MET:HE1	1.89	0.54
46:HH:309:ARG:HE	46:HH:342:VAL:HA	1.73	0.54
45:HK:88:HIS:ND1	45:IK:284:GLU:OE1	2.40	0.54
45:IE:69:ASP:OD1	45:IE:70:LEU:N	2.41	0.54
45:JE:46:ASP:OD1	45:JE:48:ALA:N	2.35	0.54
45:JG:36:MET:SD	45:JG:37:PRO:HD2	2.46	0.54
45:JK:377:MET:HE3	45:JK:378:ILE:N	2.23	0.54
45:KA:75:ILE:O	45:KA:79:ARG:HG3	2.07	0.54
45:KA:326:LYS:HE3	46:KD:208:TYR:CD1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KJ:69:GLU:HG2	46:KJ:96:GLY:HA2	1.90	0.54
46:KL:121:ARG:NH2	46:KL:158:GLU:OE1	2.38	0.54
46:MF:31:ASP:OD2	46:MF:35:THR:OG1	2.26	0.54
46:MN:398:TYR:HD2	46:MN:408:PHE:HZ	1.54	0.54
46:NB:303:ALA:HB2	46:NB:377:MET:HE1	1.89	0.54
46:ND:12:CYS:O	46:ND:16:ILE:HG12	2.07	0.54
45:NG:132:LEU:O	45:NG:164:LYS:NZ	2.32	0.54
46:NL:235:GLY:HA3	46:NL:366:THR:HG21	1.89	0.54
45:NM:175:PRO:O	45:NM:390:ARG:NH2	2.41	0.54
46:OB:251:ARG:NH1	46:OB:255:VAL:HG21	2.22	0.54
46:OB:371:SER:O	46:OB:422:TYR:OH	2.21	0.54
45:OE:287:SER:O	45:OE:291:ILE:HG12	2.07	0.54
45:OM:71:GLU:OE2	46:ON:2:ARG:NH1	2.41	0.54
46:ON:32:PRO:O	46:ON:83:GLN:NE2	2.40	0.54
45:PC:51:THR:HG21	45:PC:243:ARG:HB3	1.88	0.54
46:PD:2:ARG:HD2	46:PD:131:GLN:NE2	2.22	0.54
45:QG:265:ILE:HD11	45:QG:435:VAL:HG21	1.88	0.54
45:QG:333:ALA:O	45:QG:337:THR:HG23	2.07	0.54
46:QJ:63:ALA:O	46:QJ:89:ASN:ND2	2.41	0.54
46:QL:222:TYR:O	46:QL:226:ASN:ND2	2.26	0.54
45:RA:53:PHE:HB3	45:RA:61:HIS:HB3	1.89	0.54
45:RC:288:VAL:HG11	45:RC:327:ASP:HB3	1.87	0.54
46:RD:268:ILE:HG22	46:RD:368:VAL:HG22	1.89	0.54
45:RK:205:ASP:OD2	45:RK:205:ASP:N	2.38	0.54
46:RL:379:LYS:HE3	46:RL:419:VAL:HG11	1.87	0.54
45:SC:66:VAL:HG11	45:SC:122:ILE:HD11	1.90	0.54
45:SC:171:ILE:HA	45:SC:204:LEU:HB2	1.89	0.54
45:SK:171:ILE:HA	45:SK:204:LEU:HB2	1.88	0.54
45:TC:99:ALA:O	45:TC:105:ARG:NH2	2.39	0.54
46:UF:172:SER:OG	46:UF:205:GLU:OE1	2.24	0.54
46:UH:240:LEU:HD21	46:UH:249:ASP:HA	1.88	0.54
45:UK:3:GLU:HG2	45:UK:132:LEU:HA	1.90	0.54
45:UM:71:GLU:OE1	45:UM:73:THR:HG22	2.07	0.54
45:UM:269:LEU:HD23	45:UM:303:ALA:HB3	1.89	0.54
46:VD:309:ARG:NH1	46:VD:343:GLU:OE1	2.41	0.54
45:VG:75:ILE:HA	45:VG:78:VAL:HG12	1.90	0.54
45:VI:332:ILE:HD11	45:VI:351:PHE:CD1	2.43	0.54
46:WF:22:GLU:HG2	46:WF:81:PHE:HB2	1.89	0.54
8:1H:115:ARG:HH21	46:HL:279:GLN:HG2	1.72	0.54
19:1J:142:VAL:HG12	45:IE:373:ARG:HH22	1.73	0.54
12:3T:127:GLU:HB3	45:AK:337:THR:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:80:ARG:NH1	45:ME:37:PRO:O	2.35	0.54
37:5G:26:GLY:HA2	45:OG:221:ARG:NH2	2.23	0.54
10:5Q:34:ILE:HG13	10:5Q:49:ILE:HG22	1.90	0.54
34:5R:422:TYR:HB2	34:5R:448:CYS:SG	2.48	0.54
35:5S:81:HIS:CE1	45:WE:164:LYS:HB2	2.42	0.54
40:6G:152:GLU:HA	40:6G:155:LYS:HG3	1.88	0.54
45:AI:118:CYS:O	45:AI:122:ILE:HG12	2.06	0.54
46:AL:178:THR:HB	46:AL:181:GLU:HG3	1.89	0.54
45:BG:105:ARG:NH2	46:BH:251:ARG:HH22	2.06	0.54
45:BK:213:CYS:SG	45:BK:222:PRO:HG3	2.48	0.54
45:BM:224:TYR:HD1	47:BM:501:GTP:C6	2.26	0.54
46:CF:11:GLN:HA	46:CF:14:ASN:HD22	1.72	0.54
45:CK:340:THR:HG23	45:CK:341:ILE:HG13	1.88	0.54
45:CM:271:SER:OG	45:CM:301:MET:SD	2.65	0.54
46:DD:292:GLN:HG2	46:DD:298:ASN:ND2	2.17	0.54
45:DG:326:LYS:HZ1	46:DH:219:THR:HA	1.72	0.54
45:DI:20:CYS:HA	45:DI:232:ALA:HB1	1.89	0.54
45:DI:67:PHE:HB2	45:DI:92:LEU:HD13	1.88	0.54
45:DM:239:THR:HG23	45:DM:243:ARG:HH21	1.73	0.54
45:EI:69:ASP:OD1	45:EI:70:LEU:N	2.41	0.54
45:FA:171:ILE:O	45:FA:171:ILE:HG13	2.08	0.54
45:FA:262:TYR:OH	46:FD:391:ARG:O	2.24	0.54
46:FB:299:MET:HG3	46:FB:301:CYS:H	1.72	0.54
46:FJ:229:VAL:HG12	46:FJ:233:MET:HE2	1.89	0.54
46:FN:289:LEU:O	46:FN:293:MET:HG3	2.06	0.54
46:GH:3:GLU:OE1	46:GH:3:GLU:N	2.38	0.54
46:HB:116:VAL:HA	46:HB:119:VAL:HG22	1.90	0.54
45:HK:221:ARG:NH2	46:HL:322:SER:O	2.40	0.54
46:HN:249:ASP:OD2	46:HN:252:LYS:HG3	2.08	0.54
46:HN:273:LEU:N	46:HN:292:GLN:HE22	2.05	0.54
45:IG:207:GLU:HA	45:IG:210:TYR:HD2	1.73	0.54
45:IK:206:ASN:OD1	47:IK:501:GTP:N2	2.40	0.54
45:IK:279:GLU:O	45:IK:282:TYR:HB2	2.08	0.54
45:JE:17:GLY:HA2	45:JE:20:CYS:SG	2.47	0.54
45:JI:88:HIS:CE1	45:JI:90:GLU:HG3	2.43	0.54
45:KA:392:ASP:OD2	45:KA:422:ARG:NH1	2.41	0.54
46:LB:266:PHE:CE1	46:LB:370:ASN:HB2	2.42	0.54
45:LG:98:ASP:O	45:LG:105:ARG:NH1	2.41	0.54
46:LH:62:ARG:NH1	46:LH:127:CYS:SG	2.81	0.54
46:LL:396:HIS:HA	46:LL:399:THR:HG22	1.90	0.54
46:MB:372:THR:HA	46:MB:422:TYR:HE2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MC:88:HIS:CE1	45:MC:90:GLU:HG2	2.43	0.54
45:MI:68:LEU:HD13	45:MI:93:ILE:HB	1.90	0.54
45:MK:242:LEU:HD11	45:MK:252:ILE:HG12	1.90	0.54
46:NB:190:HIS:CD2	46:NB:411:ALA:HA	2.43	0.54
46:NH:257:LEU:HD21	46:NH:314:SER:HB3	1.88	0.54
45:OC:180:ALA:HB3	45:OC:183:GLU:HG3	1.89	0.54
45:OC:395:PHE:HZ	45:OC:418:PHE:HB3	1.73	0.54
46:OD:171:PRO:O	46:OD:380:ARG:NH2	2.41	0.54
45:OI:399:TYR:OH	45:OI:415:GLU:OE2	2.26	0.54
45:QA:268:MET:SD	45:QA:269:LEU:N	2.81	0.54
45:QE:68:LEU:HD23	45:QE:93:ILE:HB	1.89	0.54
45:QE:108:TYR:O	45:QE:112:LYS:NZ	2.38	0.54
46:QH:158:GLU:HG2	46:QH:159:TYR:CE1	2.43	0.54
45:RA:333:ALA:O	45:RA:337:THR:HG23	2.07	0.54
46:RB:151:LEU:O	46:RB:155:VAL:HG12	2.07	0.54
45:RC:172:TYR:HB2	45:RC:203:MET:HE1	1.88	0.54
46:RD:145:SER:HB2	46:RD:188:SER:HB3	1.88	0.54
46:RJ:222:TYR:HA	46:RJ:225:LEU:HG	1.88	0.54
46:RL:252:LYS:HA	46:RL:255:VAL:HG22	1.89	0.54
46:SB:257:LEU:HB3	46:SB:266:PHE:CE1	2.42	0.54
46:SD:46:ARG:NH2	45:SE:76:ASP:OD2	2.41	0.54
46:TF:73:MET:HA	46:TF:76:VAL:HG12	1.88	0.54
45:TG:88:HIS:HA	45:UG:283:HIS:HE1	1.73	0.54
46:TJ:67:ASP:OD1	46:TJ:68:LEU:N	2.40	0.54
46:TL:23:VAL:HG11	46:TL:230:SER:HB3	1.89	0.54
45:TM:88:HIS:HD2	45:UM:283:HIS:HD2	1.54	0.54
46:UB:185:ALA:O	46:UB:189:VAL:HG23	2.07	0.54
46:UJ:119:VAL:HA	46:UJ:122:LYS:HG2	1.90	0.54
46:UL:316:LEU:HB2	46:UL:366:THR:OG1	2.07	0.54
46:UN:257:LEU:HD11	46:UN:314:SER:HB2	1.89	0.54
46:UN:372:THR:HA	46:UN:422:TYR:HE2	1.72	0.54
45:VA:287:SER:O	45:VA:290:GLU:HG2	2.07	0.54
45:VG:3:GLU:N	45:VG:133:GLN:OE1	2.41	0.54
45:VK:27:GLU:HG3	45:VK:361:THR:HG21	1.90	0.54
46:WB:290:THR:HA	46:WB:293:MET:HG3	1.88	0.54
45:WI:239:THR:HG23	45:WI:243:ARG:HE	1.72	0.54
46:WJ:161:ASP:OD1	46:WJ:162:ARG:NH1	2.38	0.54
46:WJ:406:MET:O	46:WJ:410:GLU:HG2	2.07	0.54
45:WM:391:LEU:HA	45:WM:394:LYS:HZ3	1.73	0.54
46:WN:164:MET:HG2	46:WN:197:ASP:HB2	1.89	0.54
4:OD:99:ARG:HH22	45:EC:365:GLY:H	1.56	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:1I:19:GLN:NE2	46:ID:45:GLU:OE1	2.40	0.54
15:1X:78:ASN:HD22	46:MF:280:GLN:HE21	1.55	0.54
1:2A:6:TYR:HA	34:5R:8:THR:HB	1.90	0.54
21:3L:163:ARG:HH22	45:BA:75:ILE:HG22	1.72	0.54
14:3V:24:ARG:HB3	45:MA:430:LYS:HE2	1.89	0.54
15:3X:81:ARG:HG2	46:MN:276:ARG:NH1	2.21	0.54
35:4S:68:TYR:HA	35:4S:71:ARG:HD3	1.90	0.54
36:5B:82:ASP:HA	36:5B:85:ARG:NH1	2.22	0.54
34:6R:593:ASP:OD2	34:6R:597:ASN:N	2.40	0.54
46:AB:116:VAL:HA	46:AB:119:VAL:HG12	1.89	0.54
45:AC:205:ASP:OD1	45:AC:303:ALA:HA	2.06	0.54
46:AD:208:TYR:HE1	46:AD:225:LEU:HD11	1.73	0.54
45:AG:109:THR:O	45:AG:112:LYS:NZ	2.37	0.54
45:AK:192:HIS:NE2	45:AK:420:GLU:OE1	2.38	0.54
45:BI:3:GLU:OE2	45:BI:131:GLY:N	2.37	0.54
46:BN:65:LEU:HD22	46:BN:90:PHE:CE1	2.42	0.54
46:BN:139:LEU:HD22	46:BN:170:VAL:HG12	1.89	0.54
46:CB:7:ILE:HG23	46:CB:64:ILE:HD11	1.89	0.54
45:CG:90:GLU:HG3	45:DG:280:LYS:HZ3	1.72	0.54
45:CG:90:GLU:OE2	45:CG:121:ARG:NH2	2.41	0.54
45:CG:262:TYR:HD2	45:CG:265:ILE:HD12	1.73	0.54
46:CL:116:VAL:HA	46:CL:119:VAL:HG12	1.90	0.54
45:EC:288:VAL:HG11	45:EC:327:ASP:HB3	1.88	0.54
46:ED:5:VAL:HG12	46:ED:62:ARG:HD2	1.90	0.54
46:ED:409:THR:O	46:ED:412:GLU:HG3	2.08	0.54
46:EL:208:TYR:CE2	46:EL:225:LEU:HD11	2.42	0.54
46:EN:222:TYR:O	46:EN:226:ASN:ND2	2.33	0.54
45:FA:100:ALA:HB2	46:FB:251:ARG:HH21	1.72	0.54
45:GG:231:ILE:O	45:GG:235:ILE:HD12	2.08	0.54
46:GH:74:ASP:OD1	46:GH:77:ARG:NH2	2.40	0.54
45:HA:22:GLU:O	45:HA:26:LEU:HD23	2.07	0.54
46:HJ:257:LEU:HD21	46:HJ:314:SER:HB3	1.90	0.54
45:IA:53:PHE:O	45:IA:64:ARG:NH2	2.41	0.54
46:IB:148:GLY:O	46:IB:152:ILE:HG12	2.07	0.54
46:IB:286:VAL:HG23	46:IB:287:PRO:HD3	1.89	0.54
45:IC:425:LEU:O	45:IC:429:GLU:HG2	2.07	0.54
45:IE:127:ASP:OD1	45:IE:128:ASN:N	2.41	0.54
45:II:407:TRP:CH2	46:IJ:255:VAL:HA	2.42	0.54
45:IM:52:PHE:HZ	45:IM:239:THR:HG21	1.73	0.54
45:JA:426:ALA:HB1	45:JA:430:LYS:NZ	2.22	0.54
45:JC:215:ARG:NH2	45:JC:299:ALA:O	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:209:ASP:OD1	46:JF:210:ILE:N	2.40	0.54
46:JF:252:LYS:O	46:JF:256:ASN:HB2	2.08	0.54
45:JK:211:ASP:HA	45:JK:214:ARG:HG3	1.90	0.54
46:JN:375:GLN:HA	46:JN:378:PHE:CD2	2.42	0.54
45:KE:345:ASP:OD1	45:KE:346:TRP:N	2.41	0.54
45:KK:215:ARG:NH2	45:KK:299:ALA:O	2.39	0.54
45:KM:140:SER:HA	45:KM:171:ILE:HB	1.89	0.54
46:LH:73:MET:HA	46:LH:76:VAL:HG12	1.90	0.54
46:LH:222:TYR:O	46:LH:226:ASN:ND2	2.24	0.54
46:LL:52:ASN:OD1	46:LL:62:ARG:NH2	2.41	0.54
46:LL:282:ARG:NH2	46:LL:288:GLU:OE2	2.41	0.54
46:LN:73:MET:HA	46:LN:76:VAL:HG12	1.89	0.54
46:LN:174:LYS:HB2	46:LN:205:GLU:OE2	2.08	0.54
46:MD:238:CYS:SG	46:MD:239:CYS:N	2.81	0.54
46:MF:22:GLU:HG2	46:MF:81:PHE:CD2	2.43	0.54
46:MH:107:THR:HG23	46:MH:108:GLU:OE1	2.07	0.54
45:NI:90:GLU:HG3	45:NI:121:ARG:NH1	2.23	0.54
45:OC:88:HIS:HB3	45:OC:91:GLN:HE22	1.73	0.54
45:OE:298:PRO:HA	45:OE:301:MET:HE1	1.89	0.54
46:OF:221:THR:HG23	46:OF:224:ASP:H	1.72	0.54
45:OI:211:ASP:OD2	45:OI:215:ARG:NH1	2.39	0.54
46:OL:103:LYS:O	46:OL:107:THR:OG1	2.26	0.54
45:OM:21:TRP:CZ2	45:OM:65:ALA:HB2	2.42	0.54
45:OM:420:GLU:HA	45:OM:423:GLU:CD	2.27	0.54
45:PC:67:PHE:HB2	45:PC:92:LEU:HD13	1.89	0.54
45:PC:326:LYS:NZ	46:PF:220:PRO:O	2.28	0.54
45:QA:67:PHE:HB2	45:QA:92:LEU:HG	1.90	0.54
45:QC:284:GLU:HG2	45:QC:286:LEU:HD22	1.90	0.54
45:QG:261:PRO:HA	46:QH:394:PHE:HD1	1.73	0.54
45:QK:88:HIS:CE1	45:QK:90:GLU:HB2	2.42	0.54
45:QK:277:SER:OG	45:QK:280:LYS:NZ	2.39	0.54
45:QM:171:ILE:HG13	45:QM:171:ILE:O	2.06	0.54
45:QM:223:THR:HG23	45:QM:225:THR:H	1.73	0.54
46:RB:73:MET:HA	46:RB:76:VAL:HG12	1.90	0.54
46:RB:117:LEU:HD13	46:RB:154:LYS:HD2	1.89	0.54
45:RC:258:ASN:HD21	46:RD:178:THR:HG23	1.73	0.54
45:RC:326:LYS:HB3	46:RD:208:TYR:CE1	2.43	0.54
46:RJ:1:MET:SD	46:RJ:2:ARG:HG2	2.47	0.54
46:RJ:268:ILE:HG22	46:RJ:368:VAL:HG22	1.89	0.54
45:RK:265:ILE:HD11	45:RK:435:VAL:HG21	1.88	0.54
46:SD:260:PHE:HB2	46:SD:263:LEU:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:83:GLN:O	46:TF:281:TYR:OH	2.25	0.54
45:SG:83:TYR:HB3	45:SG:86:LEU:HD12	1.89	0.54
46:SL:139:LEU:HD13	46:SL:168:SER:HB3	1.88	0.54
46:TB:200:MET:SD	46:TB:266:PHE:HB2	2.48	0.54
46:TD:6:HIS:O	46:TD:63:ALA:HA	2.07	0.54
45:TG:89:PRO:HG2	45:UG:280:LYS:HZ2	1.72	0.54
46:TN:3:GLU:HG3	46:TN:62:ARG:NH1	2.23	0.54
45:UA:292:THR:HG21	45:UA:331:SER:HB3	1.89	0.54
45:UG:326:LYS:HD3	46:UH:212:PHE:CZ	2.42	0.54
46:UH:164:MET:HE3	46:UH:196:ALA:HA	1.88	0.54
46:UL:200:MET:HE1	46:UL:268:ILE:HG12	1.90	0.54
46:UN:229:VAL:O	46:UN:233:MET:HG2	2.08	0.54
46:VB:344:TRP:HB3	46:VB:430:ALA:HB2	1.90	0.54
45:VC:352:LYS:NZ	46:VF:179:VAL:H	2.03	0.54
45:VE:140:SER:OG	47:VE:501:GTP:O2B	2.25	0.54
45:VG:317:MET:HG3	45:VG:377:MET:HG2	1.90	0.54
45:VK:205:ASP:OD2	45:VK:303:ALA:HA	2.07	0.54
46:WB:375:GLN:HE22	46:WB:422:TYR:HB3	1.72	0.54
45:WG:221:ARG:NH2	46:WH:322:SER:OG	2.40	0.54
46:WH:149:THR:HA	46:WH:152:ILE:HD12	1.88	0.54
46:WL:99:ASN:HA	46:WL:142:GLY:H	1.72	0.54
3:OC:75:LEU:HB2	46:EH:362:LYS:NZ	2.23	0.54
10:1Q:55:SER:OG	45:AC:422:ARG:NH2	2.40	0.54
30:2H:170:ILE:HG22	34:7R:84:PRO:HG2	1.89	0.54
11:2S:150:GLN:HE22	45:WG:164:LYS:H	1.55	0.54
30:3H:219:ILE:O	45:MG:84:ARG:NH2	2.41	0.54
35:4S:62:ILE:HG13	35:4S:67:LYS:HE3	1.90	0.54
34:6R:511:TYR:HB2	45:EM:39:ASP:HB3	1.88	0.54
46:AB:309:ARG:N	46:AB:426:GLN:HE22	2.06	0.54
45:AM:328:VAL:HG11	45:AM:353:VAL:HG21	1.88	0.54
46:BH:132:GLY:HA3	46:BH:163:ILE:O	2.08	0.54
46:BL:247:ASN:HD22	46:BL:247:ASN:C	2.10	0.54
46:CB:350:LYS:HZ3	45:CC:181:VAL:N	2.06	0.54
46:CD:285:THR:OG1	46:CD:288:GLU:OE1	2.25	0.54
45:CK:50:ASN:ND2	45:CK:50:ASN:O	2.41	0.54
46:CL:327:ASP:OD1	46:CL:328:GLU:N	2.41	0.54
45:CM:123:ARG:NH2	45:CM:127:ASP:OD1	2.39	0.54
46:DB:6:HIS:HE1	46:DB:8:GLN:HB3	1.72	0.54
46:DB:86:ARG:HH12	46:EB:280:GLN:HG2	1.73	0.54
46:DB:268:ILE:HG22	46:DB:368:VAL:HG22	1.90	0.54
45:DG:324:VAL:CG1	45:DG:326:LYS:HE2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DG:339:ARG:HA	45:DG:339:ARG:CZ	2.38	0.54
45:DI:68:LEU:HG	45:DI:93:ILE:HB	1.89	0.54
46:DN:67:ASP:O	46:DN:92:PHE:HA	2.07	0.54
46:EH:15:GLN:OE1	46:EH:226:ASN:ND2	2.35	0.54
46:EH:289:LEU:O	46:EH:293:MET:HG3	2.08	0.54
45:EK:68:LEU:HD11	45:EK:118:CYS:SG	2.47	0.54
45:EK:101:ASN:HA	45:EK:144:GLY:H	1.73	0.54
46:EL:19:LYS:NZ	46:EL:223:GLY:O	2.41	0.54
46:FB:73:MET:HA	46:FB:76:VAL:HG12	1.89	0.54
46:FD:20:PHE:HD2	46:FD:21:TRP:CD1	2.26	0.54
46:FF:342:VAL:HG13	46:FF:345:ILE:HG22	1.90	0.54
46:FH:200:MET:SD	46:FH:266:PHE:HB2	2.48	0.54
46:GB:139:LEU:HD13	46:GB:168:SER:HB3	1.90	0.54
45:GC:98:ASP:O	45:GC:105:ARG:NH1	2.41	0.54
45:GG:35:GLN:HE22	45:GG:59:GLY:HA2	1.73	0.54
46:HB:221:THR:HG23	46:HB:224:ASP:H	1.72	0.54
46:HF:148:GLY:O	46:HF:152:ILE:HG12	2.08	0.54
46:HL:73:MET:HA	46:HL:76:VAL:HG12	1.90	0.54
45:IC:231:ILE:O	45:IC:235:ILE:HG12	2.08	0.54
46:IJ:86:ARG:NH2	45:JG:284:GLU:HG2	2.16	0.54
45:JA:135:PHE:HB2	45:JA:166:LYS:HG2	1.90	0.54
45:JA:271:SER:OG	45:JA:301:MET:SD	2.66	0.54
45:JC:387:VAL:HG12	45:JC:390:ARG:NH2	2.23	0.54
45:JG:140:SER:OG	47:JG:501:GTP:O2B	2.24	0.54
45:JK:206:ASN:OD1	47:JK:501:GTP:N2	2.41	0.54
45:JK:318:MET:N	45:JK:318:MET:SD	2.80	0.54
45:KA:53:PHE:HB3	45:KA:61:HIS:HB3	1.90	0.54
45:KC:88:HIS:CE1	45:KC:90:GLU:HG2	2.43	0.54
46:KF:208:TYR:HE1	46:KF:225:LEU:HD11	1.73	0.54
45:KI:7:ILE:HB	45:KI:137:VAL:HG12	1.90	0.54
45:MA:217:LEU:HB3	45:MA:219:ILE:HG13	1.88	0.54
46:NB:316:LEU:HD13	46:NB:352:SER:HB2	1.90	0.54
45:NC:414:GLU:OE1	45:NC:416:GLY:N	2.34	0.54
46:NJ:293:MET:SD	46:NJ:367:PHE:HB2	2.48	0.54
45:NK:278:ALA:HB2	45:NK:369:ALA:HB2	1.90	0.54
45:OE:252:ILE:HA	45:OE:255:PHE:CE2	2.43	0.54
46:OF:103:LYS:NZ	46:OF:401:GLU:OE2	2.34	0.54
45:OM:17:GLY:HA2	45:OM:20:CYS:SG	2.48	0.54
45:PC:326:LYS:HZ2	46:PF:219:THR:HA	1.71	0.54
46:PJ:290:THR:HA	46:PJ:293:MET:HG3	1.90	0.54
45:PK:26:LEU:HD21	45:PK:363:VAL:HG22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QA:224:TYR:HD1	45:QA:227:LEU:HD12	1.73	0.54
46:QB:134:GLN:HG2	46:QB:165:GLU:HG3	1.88	0.54
46:QB:182:PRO:O	46:QB:186:THR:HG23	2.08	0.54
45:QC:328:VAL:HG11	45:QC:353:VAL:HG21	1.90	0.54
45:QE:101:ASN:HA	45:QE:144:GLY:H	1.72	0.54
45:QG:332:ILE:HA	45:QG:335:ILE:HG12	1.89	0.54
45:QK:318:MET:HB2	45:QK:376:CYS:SG	2.48	0.54
46:QL:213:ARG:HG3	46:QL:214:THR:HG23	1.89	0.54
46:RB:91:VAL:HG21	46:RB:116:VAL:HB	1.90	0.54
45:RK:346:TRP:CD1	46:RL:391:ARG:HG3	2.43	0.54
46:RL:99:ASN:OD1	46:RL:142:GLY:N	2.41	0.54
46:RL:165:GLU:HG2	46:RL:198:GLU:OE1	2.07	0.54
45:SA:76:ASP:OD1	45:SA:79:ARG:NH2	2.40	0.54
46:SD:8:GLN:HE22	46:SD:17:GLY:CA	2.21	0.54
45:SG:118:CYS:O	45:SG:122:ILE:HG12	2.08	0.54
46:SL:20:PHE:HA	46:SL:230:SER:OG	2.07	0.54
45:SM:98:ASP:OD1	45:SM:99:ALA:N	2.40	0.54
46:TF:139:LEU:HD13	46:TF:168:SER:HB3	1.89	0.54
46:TF:282:ARG:NE	46:TF:288:GLU:OE2	2.41	0.54
46:TJ:21:TRP:CZ2	46:TJ:63:ALA:HB2	2.43	0.54
45:TM:98:ASP:O	45:TM:105:ARG:NH1	2.41	0.54
46:UB:119:VAL:O	46:UB:122:LYS:HG3	2.07	0.54
46:UB:324:LYS:HZ2	45:UC:222:PRO:HD2	1.72	0.54
46:UF:290:THR:HA	46:UF:293:MET:HG3	1.89	0.54
45:UI:121:ARG:HH11	45:UI:121:ARG:HA	1.73	0.54
45:UM:89:PRO:HD2	45:VK:280:LYS:HE3	1.89	0.54
45:VA:231:ILE:O	45:VA:235:ILE:HG12	2.07	0.54
45:VC:222:PRO:O	46:VD:322:SER:HB2	2.08	0.54
45:VK:336:LYS:HD3	45:VK:351:PHE:HZ	1.71	0.54
46:VN:2:ARG:HA	46:VN:131:GLN:HE22	1.72	0.54
46:VN:208:TYR:HE2	46:VN:225:LEU:HD11	1.73	0.54
45:WC:340:THR:HG23	45:WC:341:ILE:HG13	1.89	0.54
46:WD:309:ARG:NH2	46:WD:426:GLN:O	2.32	0.54
45:WG:326:LYS:HE2	46:WJ:220:PRO:CD	2.36	0.54
45:WI:207:GLU:OE1	45:WI:207:GLU:N	2.37	0.54
45:DC:136:LEU:HD13	45:DC:167:LEU:HB2	1.90	0.54
45:DC:174:SER:HB2	45:DC:177:VAL:HB	1.89	0.54
15:0X:45:GLN:NE2	45:MA:282:TYR:CG	2.76	0.54
24:1P:189:HIS:CE1	46:TH:362:LYS:HG2	2.43	0.54
25:1R:224:PHE:CG	46:BF:80:PRO:HG3	2.43	0.54
25:1R:410:TRP:CH2	45:EC:372:MET:HG2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:3T:224:LYS:HE2	45:MK:196:GLU:HG2	1.88	0.54
34:4R:33:LEU:H	45:LC:1:MET:HE1	1.73	0.54
37:5H:27:ARG:HH12	45:OK:221:ARG:HH12	1.56	0.54
40:6G:165:THR:OG1	40:6G:168:GLU:HG2	2.08	0.54
45:AA:171:ILE:O	45:AA:171:ILE:HG13	2.08	0.54
45:AG:210:TYR:HE2	45:AG:227:LEU:HD21	1.72	0.54
45:AK:101:ASN:HA	45:AK:144:GLY:H	1.71	0.54
45:BC:226:ASN:ND2	45:BC:367:ASP:OD2	2.41	0.54
45:BC:332:ILE:HD12	45:BC:351:PHE:CD2	2.43	0.54
45:BG:297:GLU:HB3	45:BG:300:ASN:OD1	2.07	0.54
46:BJ:273:LEU:H	46:BJ:292:GLN:HE22	1.53	0.54
45:BK:141:VAL:HG11	45:BK:172:TYR:CD1	2.43	0.54
46:BL:6:HIS:CE1	46:BL:134:GLN:HE21	2.26	0.54
46:CB:332:ASN:O	46:CB:336:LYS:HG2	2.07	0.54
46:CF:238:CYS:SG	46:CF:239:CYS:N	2.80	0.54
46:CF:313:ALA:HB1	46:CF:367:PHE:HE1	1.73	0.54
46:CH:290:THR:HA	46:CH:293:MET:HG2	1.89	0.54
46:DB:7:ILE:HG22	46:DB:64:ILE:HB	1.89	0.54
46:DF:138:SER:HA	46:DF:169:VAL:HB	1.88	0.54
46:EF:16:ILE:HD12	46:EF:229:VAL:HG11	1.90	0.54
46:EH:246:LEU:HD11	45:EI:224:TYR:HE2	1.73	0.54
45:EI:338:LYS:HZ2	45:EI:339:ARG:N	2.06	0.54
46:FJ:124:ALA:O	46:FJ:130:LEU:HD21	2.08	0.54
45:GC:73:THR:HB	46:GD:2:ARG:HH22	1.72	0.54
46:GF:31:ASP:OD1	46:GF:35:THR:N	2.31	0.54
45:GK:251:ASP:OD1	45:GK:252:ILE:N	2.40	0.54
46:HB:31:ASP:OD2	46:HB:37:HIS:ND1	2.41	0.54
46:HF:86:ARG:HD2	46:HF:87:PRO:HD2	1.89	0.54
46:HF:248:SER:HB2	46:HF:252:LYS:HD2	1.89	0.54
46:HH:294:PHE:HD2	46:HH:333:VAL:HG21	1.71	0.54
45:HM:340:THR:HG23	45:HM:341:ILE:HG13	1.90	0.54
46:HN:119:VAL:HA	46:HN:122:LYS:HE2	1.90	0.54
46:IH:105:HIS:CE1	46:IH:150:LEU:HD12	2.42	0.54
45:IK:226:ASN:ND2	45:IK:367:ASP:OD2	2.41	0.54
46:IL:218:THR:HG23	46:IL:219:THR:HG23	1.89	0.54
46:IN:29:GLY:HA3	46:IN:43:GLN:NE2	2.22	0.54
45:JA:215:ARG:NH2	45:JA:300:ASN:HA	2.21	0.54
45:JC:339:ARG:HA	45:JC:339:ARG:NH1	2.22	0.54
45:JI:251:ASP:OD1	45:JI:252:ILE:N	2.41	0.54
45:JM:222:PRO:HD2	46:JN:324:LYS:HD3	1.90	0.54
46:KD:73:MET:HA	46:KD:76:VAL:HG12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:166:LYS:N	45:KE:199:ASP:OD1	2.39	0.54
45:KE:271:SER:OG	45:KE:301:MET:SD	2.65	0.54
45:KI:60:LYS:NZ	45:KI:85:GLN:O	2.25	0.54
46:KJ:45:GLU:HG3	46:KJ:46:ARG:HH11	1.72	0.54
45:KM:255:PHE:O	45:KM:259:LEU:HB2	2.08	0.54
45:LI:398:MET:HG3	46:LJ:345:ILE:HG22	1.90	0.54
46:MD:64:ILE:HD13	46:MD:119:VAL:HG13	1.90	0.54
46:ND:130:LEU:HD11	46:ND:133:PHE:HE1	1.73	0.54
46:ND:186:THR:HG23	46:ND:415:MET:SD	2.47	0.54
45:NG:48:ALA:HB1	45:NG:243:ARG:HB2	1.90	0.54
45:NG:326:LYS:HG3	45:NG:327:ASP:N	2.22	0.54
45:NG:333:ALA:HA	45:NG:336:LYS:HZ1	1.73	0.54
46:OB:293:MET:HE1	46:OB:365:VAL:HG21	1.90	0.54
45:OC:3:GLU:HG2	45:OC:132:LEU:HA	1.90	0.54
46:OD:156:ARG:NH1	46:OD:195:ASN:O	2.41	0.54
46:OJ:68:LEU:HD13	46:OJ:93:GLY:HA3	1.89	0.54
46:OL:148:GLY:O	46:OL:152:ILE:HG12	2.08	0.54
46:PF:45:GLU:OE2	46:PF:46:ARG:HG2	2.07	0.54
45:PG:75:ILE:HD12	45:PG:92:LEU:HB3	1.89	0.54
46:QJ:166:THR:OG1	46:QJ:199:CYS:SG	2.57	0.54
45:RA:76:ASP:OD1	45:RA:79:ARG:NH2	2.41	0.54
46:RB:284:LEU:HD11	46:RB:362:LYS:HD2	1.90	0.54
45:RG:326:LYS:HD3	46:RH:220:PRO:HD2	1.89	0.54
46:RH:139:LEU:HD22	46:RH:170:VAL:HG12	1.89	0.54
46:SB:86:ARG:HD2	46:SB:87:PRO:HD2	1.90	0.54
45:SE:68:LEU:HD13	45:SE:93:ILE:HB	1.89	0.54
45:SG:244:PHE:HB2	45:SG:356:ASN:HD21	1.72	0.54
45:SK:74:VAL:O	45:SK:78:VAL:HG23	2.07	0.54
45:SM:68:LEU:HD13	45:SM:93:ILE:HB	1.90	0.54
45:TE:5:ILE:HB	45:TE:135:PHE:CD1	2.43	0.54
45:TM:238:LEU:HD21	45:TM:378:ILE:HD11	1.90	0.54
45:UC:5:ILE:HD13	45:UC:135:PHE:HE1	1.72	0.54
46:UD:7:ILE:HD13	46:UD:151:LEU:HD11	1.90	0.54
45:UE:391:LEU:HA	45:UE:394:LYS:HZ3	1.73	0.54
45:UM:208:ALA:N	45:UM:304:LYS:HD3	2.22	0.54
45:VC:203:MET:HE3	45:VC:203:MET:HA	1.90	0.54
46:VD:222:TYR:HA	46:VD:225:LEU:HG	1.90	0.54
46:WF:174:LYS:H	46:WF:174:LYS:HZ3	1.55	0.54
45:WG:222:PRO:HG2	46:WH:324:LYS:NZ	2.23	0.54
46:WL:32:PRO:O	46:WL:83:GLN:NE2	2.37	0.54
45:CE:117:LEU:O	45:CE:121:ARG:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0D:225:ARG:NH1	34:7R:566:PHE:HB2	2.23	0.54
9:0N:247:GLN:N	45:KK:46:ASP:OD2	2.40	0.54
37:5F:72:ASP:O	37:5F:104:MET:N	2.41	0.54
37:5F:188:GLN:OE1	37:5F:192:ASN:ND2	2.39	0.54
34:5R:278:TYR:CD1	34:5R:285:THR:HB	2.43	0.54
34:7R:210:GLU:O	34:7R:214:THR:HG23	2.08	0.54
34:7R:251:ASN:HA	34:7R:254:LYS:HD2	1.90	0.54
46:AL:9:GLY:HA3	46:AL:66:MET:SD	2.48	0.54
45:BC:209:ILE:HA	45:BC:212:ILE:HG22	1.89	0.54
45:BG:105:ARG:NE	45:BG:411:GLU:OE1	2.40	0.54
45:BG:284:GLU:HG3	45:BG:286:LEU:HD22	1.88	0.54
46:BJ:117:LEU:HA	46:BJ:120:VAL:HG12	1.89	0.54
45:BK:331:SER:O	45:BK:335:ILE:HG12	2.07	0.54
45:CA:270:SER:HB3	45:CA:378:ILE:HD13	1.90	0.54
45:CC:287:SER:HB3	45:CC:290:GLU:HG2	1.89	0.54
46:CD:390:ARG:HE	46:CD:391:ARG:HG2	1.72	0.54
46:CJ:229:VAL:O	46:CJ:233:MET:HG2	2.08	0.54
45:CK:22:GLU:HG3	45:CK:83:TYR:OH	2.08	0.54
45:CK:98:ASP:OD1	45:CK:99:ALA:N	2.41	0.54
45:CK:284:GLU:HG2	45:CK:286:LEU:HD22	1.90	0.54
45:CK:419:SER:O	45:CK:423:GLU:HG2	2.08	0.54
46:DH:209:ASP:HB3	46:DH:213:ARG:NH1	2.23	0.54
45:EI:326:LYS:HG2	46:EJ:220:PRO:HD2	1.89	0.54
45:FC:88:HIS:HB3	45:FC:91:GLN:HG3	1.90	0.54
45:FK:141:VAL:HG21	45:FK:172:TYR:CD1	2.43	0.54
45:GA:121:ARG:HA	45:GA:124:LYS:HZ2	1.73	0.54
46:GB:16:ILE:HD12	46:GB:229:VAL:HG11	1.90	0.54
46:GH:3:GLU:HG3	46:GH:62:ARG:NH1	2.23	0.54
46:HJ:103:LYS:NZ	46:HJ:401:GLU:OE2	2.41	0.54
46:IF:6:HIS:O	46:IF:63:ALA:HA	2.08	0.54
45:IG:18:ASN:O	45:IG:22:GLU:HG3	2.08	0.54
45:IG:280:LYS:HE3	45:IG:283:HIS:ND1	2.23	0.54
46:JJ:11:GLN:HA	46:JJ:72:THR:HG21	1.89	0.54
46:JJ:119:VAL:HA	46:JJ:122:LYS:HG2	1.89	0.54
45:KA:75:ILE:HG21	45:KA:94:SER:HB3	1.90	0.54
46:KJ:316:LEU:HD13	46:KJ:352:SER:HB2	1.89	0.54
45:KK:300:ASN:O	45:KK:300:ASN:ND2	2.40	0.54
45:KM:392:ASP:HA	45:KM:422:ARG:NH2	2.23	0.54
46:LD:372:THR:HA	46:LD:422:TYR:CE2	2.43	0.54
46:MB:372:THR:HG21	46:MB:426:GLN:HB2	1.89	0.54
46:MH:101:TRP:HB2	46:MH:184:ASN:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MJ:268:ILE:HG22	46:MJ:368:VAL:HG22	1.90	0.54
45:MK:171:ILE:HG13	45:MK:204:LEU:HB2	1.90	0.54
46:ML:3:GLU:HG3	46:ML:62:ARG:NH1	2.22	0.54
45:NA:118:CYS:O	45:NA:122:ILE:HG12	2.08	0.54
46:ND:83:GLN:O	46:OD:281:TYR:OH	2.12	0.54
45:NG:112:LYS:HA	45:NG:115:VAL:HG22	1.90	0.54
46:NN:233:MET:O	46:NN:236:VAL:HG12	2.08	0.54
45:OA:10:GLY:O	45:OA:14:ILE:HG12	2.07	0.54
45:OG:4:VAL:HG11	45:OG:136:LEU:HD23	1.90	0.54
46:ON:230:SER:HA	46:ON:233:MET:HG2	1.90	0.54
45:PA:14:ILE:HG13	45:PA:67:PHE:CE1	2.43	0.54
46:PH:344:TRP:CE3	46:PH:345:ILE:HG23	2.42	0.54
46:PJ:74:ASP:HA	46:PJ:77:ARG:HE	1.73	0.54
46:PL:139:LEU:HD12	46:PL:170:VAL:HG12	1.89	0.54
45:QE:292:THR:HG21	45:QE:331:SER:HB2	1.90	0.54
46:QF:67:ASP:OD1	46:QF:68:LEU:N	2.41	0.54
45:RA:346:TRP:HZ2	45:RA:439:THR:HB	1.73	0.54
46:RD:99:ASN:HA	46:RD:142:GLY:H	1.73	0.54
46:RH:19:LYS:O	46:RH:22:GLU:HG3	2.07	0.54
46:RH:375:GLN:OE1	46:RH:379:LYS:NZ	2.40	0.54
46:SJ:46:ARG:HH12	45:SK:73:THR:HG23	1.72	0.54
45:TE:286:LEU:O	45:TE:373:ARG:NH1	2.37	0.54
46:TF:318:ARG:HB3	46:TF:357:PRO:HA	1.88	0.54
45:TG:132:LEU:O	45:TG:164:LYS:NZ	2.32	0.54
45:TI:120:ASP:HB3	45:TI:124:LYS:NZ	2.23	0.54
46:TN:318:ARG:HB3	46:TN:357:PRO:HA	1.90	0.54
46:UB:6:HIS:NE2	46:UB:8:GLN:OE1	2.41	0.54
46:UB:210:ILE:HA	46:UB:297:LYS:HZ1	1.72	0.54
46:UJ:207:LEU:HB3	46:UJ:225:LEU:HD22	1.90	0.54
46:VD:67:ASP:OD1	46:VD:68:LEU:N	2.38	0.54
45:VG:111:GLY:O	45:VG:115:VAL:HG13	2.07	0.54
46:VJ:186:THR:HA	46:VJ:189:VAL:HG12	1.88	0.54
46:VL:172:SER:OG	46:VL:205:GLU:OE1	2.20	0.54
45:WA:180:ALA:HA	46:WB:350:LYS:NZ	2.20	0.54
46:WB:222:TYR:HA	46:WB:225:LEU:HG	1.90	0.54
46:WD:350:LYS:HD3	46:WD:351:SER:N	2.23	0.54
45:WE:88:HIS:HB3	45:WE:91:GLN:HG2	1.89	0.54
46:WF:52:ASN:OD1	46:WF:62:ARG:NH2	2.40	0.54
46:WH:86:ARG:NH2	46:WH:89:ASN:OD1	2.40	0.54
45:WI:419:SER:O	45:WI:423:GLU:HG2	2.08	0.54
45:CE:138:PHE:HE1	45:CE:169:PHE:CD2	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DC:260:VAL:HG23	45:DC:265:ILE:O	2.08	0.54
34:4R:319:PRO:HG3	46:CF:228:LEU:HD22	1.90	0.53
37:5E:146:PHE:HA	37:5E:149:ARG:HG2	1.89	0.53
35:5S:160:THR:O	35:5S:164:LYS:HG2	2.09	0.53
40:6G:281:THR:H	40:6G:284:LYS:HZ3	1.54	0.53
10:6Q:57:ASN:HB2	10:6Q:158:ALA:HB2	1.89	0.53
45:AA:75:ILE:HG21	45:AA:94:SER:HB2	1.90	0.53
45:AA:140:SER:OG	47:AA:501:GTP:O2B	2.25	0.53
46:BF:248:SER:HA	46:BF:252:LYS:HG3	1.90	0.53
46:CB:74:ASP:OD1	46:CB:77:ARG:NE	2.35	0.53
45:DA:215:ARG:NH2	45:DA:299:ALA:O	2.41	0.53
46:DD:105:HIS:CD2	46:DD:150:LEU:HB2	2.44	0.53
45:DE:272:TYR:HD2	45:DE:275:ILE:HD11	1.73	0.53
46:DF:72:THR:OG1	46:DF:73:MET:SD	2.65	0.53
46:DH:294:PHE:CD1	46:DH:333:VAL:HG21	2.43	0.53
45:DI:319:TYR:HB3	45:DI:323:VAL:HG11	1.89	0.53
45:DM:262:TYR:HB3	45:DM:265:ILE:HG12	1.89	0.53
45:EG:67:PHE:HB2	45:EG:92:LEU:HD13	1.88	0.53
46:EL:376:GLU:HA	46:EL:379:LYS:HD2	1.90	0.53
45:EM:20:CYS:HA	45:EM:232:ALA:HB1	1.90	0.53
45:FC:15:GLN:NE2	47:FC:501:GTP:O6	2.42	0.53
45:FC:102:ASN:ND2	45:FC:407:TRP:O	2.33	0.53
46:FH:271:ALA:HB3	46:FH:365:VAL:HB	1.89	0.53
45:FK:97:GLU:HB2	45:FK:110:ILE:HD13	1.90	0.53
46:FL:293:MET:HE3	46:FL:367:PHE:HB2	1.90	0.53
46:FL:341:PHE:HD2	46:FL:348:ASN:HD21	1.56	0.53
45:GA:230:LEU:O	45:GA:234:VAL:HG23	2.08	0.53
46:GB:49:VAL:HG11	46:GB:241:ARG:HG2	1.90	0.53
46:GD:31:ASP:OD1	46:GD:35:THR:N	2.35	0.53
45:GG:21:TRP:CZ2	45:GG:65:ALA:HB2	2.43	0.53
46:GN:73:MET:HA	46:GN:76:VAL:HG12	1.90	0.53
45:HA:9:VAL:HG22	45:HA:68:LEU:HB2	1.90	0.53
45:HI:201:ALA:HB3	45:HI:267:PHE:HD1	1.73	0.53
45:HK:223:THR:HA	46:HL:322:SER:HB2	1.90	0.53
45:IA:214:ARG:HH21	45:IA:215:ARG:HB2	1.73	0.53
45:IA:326:LYS:HE3	46:ID:208:TYR:CE2	2.43	0.53
45:IA:352:LYS:HZ1	46:ID:179:VAL:N	2.06	0.53
46:IB:325:GLU:C	46:IB:329:GLN:HE21	2.11	0.53
45:IE:332:ILE:HD11	45:IE:351:PHE:CG	2.43	0.53
46:IH:3:GLU:OE1	46:IH:62:ARG:HD2	2.07	0.53
45:JC:76:ASP:HA	45:JC:79:ARG:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JE:288:VAL:HG11	45:JE:327:ASP:HB3	1.90	0.53
46:KD:292:GLN:HG2	46:KD:298:ASN:ND2	2.23	0.53
45:KG:105:ARG:HG2	45:KG:411:GLU:HG2	1.90	0.53
46:KN:139:LEU:HD13	46:KN:168:SER:HB3	1.90	0.53
45:LA:68:LEU:HD23	45:LA:93:ILE:HB	1.90	0.53
46:LL:200:MET:HE2	46:LL:268:ILE:HD13	1.90	0.53
46:LN:63:ALA:O	46:LN:89:ASN:ND2	2.41	0.53
46:LN:132:GLY:HA3	46:LN:163:ILE:HG22	1.89	0.53
46:MB:118:ASP:O	46:MB:121:ARG:HG2	2.08	0.53
46:MF:5:VAL:HG12	46:MF:62:ARG:HD2	1.90	0.53
46:MJ:104:GLY:HA3	46:MJ:143:THR:HA	1.89	0.53
46:ML:73:MET:HE1	46:ML:92:PHE:HB3	1.90	0.53
45:NA:326:LYS:HE2	46:ND:208:TYR:CD2	2.44	0.53
46:ND:313:ALA:HB1	46:ND:367:PHE:HE1	1.73	0.53
45:NG:118:CYS:O	45:NG:122:ILE:HG12	2.08	0.53
45:NG:121:ARG:HA	45:NG:124:LYS:HG2	1.90	0.53
46:NH:222:TYR:O	46:NH:226:ASN:ND2	2.30	0.53
46:NL:272:PRO:HG3	46:NL:284:LEU:HG	1.90	0.53
45:OE:27:GLU:HG3	45:OE:361:THR:HG21	1.90	0.53
45:OI:352:LYS:HE2	46:OL:178:THR:HA	1.89	0.53
45:PA:221:ARG:NH2	46:PB:321:MET:HB2	2.22	0.53
45:PC:147:SER:HB2	45:PC:190:SER:HB3	1.90	0.53
46:PD:51:TYR:HB3	46:PD:59:TYR:HB3	1.90	0.53
46:PD:119:VAL:HG13	46:PD:122:LYS:HZ3	1.73	0.53
45:PG:326:LYS:HG3	45:PG:327:ASP:N	2.23	0.53
45:PK:399:TYR:O	45:PK:402:ARG:NH1	2.40	0.53
46:PL:183:TYR:HE2	46:PL:394:PHE:HB2	1.72	0.53
45:PM:229:ARG:O	45:PM:233:GLN:NE2	2.40	0.53
46:QB:150:LEU:HB2	46:QB:154:LYS:HZ3	1.73	0.53
45:QC:69:ASP:O	45:QC:94:SER:HA	2.08	0.53
46:QD:52:ASN:OD1	46:QD:62:ARG:NH2	2.41	0.53
46:QD:292:GLN:HE21	46:QD:298:ASN:ND2	2.06	0.53
46:QF:284:LEU:HD21	46:QF:362:LYS:HE2	1.90	0.53
45:QI:97:GLU:HG2	45:QI:105:ARG:HH22	1.73	0.53
46:QJ:289:LEU:HD13	46:QJ:365:VAL:HG23	1.89	0.53
46:RF:213:ARG:NE	46:RF:213:ARG:HA	2.23	0.53
46:RF:238:CYS:SG	46:RF:239:CYS:N	2.81	0.53
45:RG:7:ILE:HB	45:RG:137:VAL:HG12	1.90	0.53
46:RH:12:CYS:O	46:RH:16:ILE:HG12	2.08	0.53
45:RI:76:ASP:HA	45:RI:79:ARG:NH1	2.22	0.53
45:RI:276:ILE:HG23	45:RI:280:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RI:319:TYR:HE2	45:RI:328:VAL:HG13	1.73	0.53
45:RK:254:GLU:OE2	45:RK:258:ASN:ND2	2.41	0.53
46:RL:392:LYS:HA	46:RL:395:LEU:HD12	1.89	0.53
45:SM:328:VAL:HG11	45:SM:353:VAL:HG21	1.90	0.53
46:TB:178:THR:HB	46:TB:181:GLU:HG3	1.89	0.53
45:TE:226:ASN:ND2	45:TE:367:ASP:OD2	2.41	0.53
45:TE:402:ARG:HH12	45:TE:406:HIS:N	2.05	0.53
46:TH:3:GLU:HG3	46:TH:49:VAL:HA	1.89	0.53
46:TH:73:MET:HA	46:TH:76:VAL:HG22	1.88	0.53
46:TJ:58:ARG:NH2	46:UJ:280:GLN:OE1	2.41	0.53
46:TJ:293:MET:SD	46:TJ:365:VAL:HG11	2.48	0.53
46:TL:25:SER:HG	46:TL:51:TYR:HH	1.54	0.53
45:TM:406:HIS:HA	45:TM:409:VAL:HG22	1.89	0.53
46:UH:318:ARG:HB3	46:UH:357:PRO:HA	1.90	0.53
46:UJ:10:GLY:O	46:UJ:14:ASN:ND2	2.41	0.53
46:UJ:153:SER:HA	46:UJ:195:ASN:HD22	1.72	0.53
46:UL:190:HIS:CD2	46:UL:411:ALA:HA	2.44	0.53
45:VA:113:GLU:HG2	45:VA:114:ILE:HD12	1.90	0.53
45:VC:352:LYS:HZ2	46:VF:178:THR:HG23	1.72	0.53
46:VD:178:THR:HG22	46:VD:180:VAL:H	1.73	0.53
46:WF:266:PHE:CE1	46:WF:370:ASN:HB2	2.44	0.53
45:WG:104:ALA:HB2	45:WG:413:MET:HG2	1.90	0.53
45:WK:195:LEU:HG	45:WK:264:ARG:NH2	2.23	0.53
45:DC:430:LYS:HA	45:DC:433:GLU:CD	2.29	0.53
16:2B:63:GLN:HE22	45:LK:84:ARG:NE	2.04	0.53
21:2L:575:LYS:NZ	45:AM:85:GLN:HG2	2.22	0.53
11:2S:97:ARG:HH12	46:MJ:262:ARG:NH1	2.06	0.53
15:4X:38:ILE:HG13	15:4X:41:GLN:HE21	1.73	0.53
15:4X:85:GLU:O	15:4X:89:ASN:ND2	2.41	0.53
37:5E:74:ASP:HB3	37:5E:77:LYS:HG2	1.89	0.53
37:5G:33:TYR:HB3	45:NG:85:GLN:HE22	1.73	0.53
34:5R:206:ASN:ND2	34:5R:210:GLU:OE1	2.41	0.53
34:6R:397:SER:HB3	46:EN:276:ARG:HH21	1.74	0.53
45:AM:118:CYS:O	45:AM:122:ILE:HG12	2.07	0.53
46:AN:290:THR:HA	46:AN:293:MET:HG2	1.90	0.53
45:BC:167:LEU:HG	45:BC:200:VAL:HB	1.89	0.53
45:BC:205:ASP:OD2	45:BC:303:ALA:HA	2.09	0.53
46:BD:132:GLY:HA3	46:BD:163:ILE:O	2.08	0.53
45:BI:174:SER:HB2	45:BI:177:VAL:O	2.08	0.53
46:CH:224:ASP:O	46:CH:228:LEU:HD12	2.08	0.53
46:CH:232:ALA:HB1	46:CH:268:ILE:HD12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:309:ARG:NH2	46:CJ:426:GLN:O	2.34	0.53
45:CK:208:ALA:O	45:CK:212:ILE:HG12	2.08	0.53
46:DD:203:ASP:OD2	46:DD:205:GLU:HB2	2.08	0.53
46:DD:258:ILE:HD11	45:DE:407:TRP:HZ2	1.73	0.53
45:DE:141:VAL:HG12	45:DE:171:ILE:O	2.09	0.53
46:DH:99:ASN:OD1	46:DH:142:GLY:N	2.41	0.53
46:DJ:324:LYS:NZ	45:DK:210:TYR:HB3	2.24	0.53
46:EB:178:THR:HB	46:EB:181:GLU:HG3	1.91	0.53
46:ED:201:VAL:HG13	46:ED:301:CYS:SG	2.48	0.53
46:EN:282:ARG:NH2	46:EN:292:GLN:OE1	2.42	0.53
45:FA:15:GLN:NE2	47:FA:501:GTP:O6	2.41	0.53
45:FA:119:LEU:HA	45:FA:122:ILE:HG12	1.90	0.53
45:FC:267:PHE:HD2	45:FC:388:PHE:HZ	1.54	0.53
45:FE:11:GLN:NE2	46:FF:247:ASN:OD1	2.41	0.53
45:FG:224:TYR:HE2	46:FH:246:LEU:HD11	1.72	0.53
46:FJ:294:PHE:HD1	46:FJ:333:VAL:HG11	1.73	0.53
46:FN:6:HIS:O	46:FN:63:ALA:HA	2.08	0.53
46:GB:3:GLU:HA	46:GB:49:VAL:HG23	1.90	0.53
46:HB:226:ASN:HD21	49:HB:501:GDP:HN1	1.55	0.53
45:HM:284:GLU:HG3	45:HM:286:LEU:HD22	1.90	0.53
45:IM:55:GLU:HG2	45:IM:61:HIS:CE1	2.43	0.53
45:JE:328:VAL:O	45:JE:332:ILE:HD12	2.08	0.53
46:JF:186:THR:HA	46:JF:189:VAL:HG12	1.88	0.53
45:JG:102:ASN:ND2	45:JG:105:ARG:HG3	2.23	0.53
45:JI:133:GLN:HB3	45:JI:252:ILE:HD11	1.90	0.53
45:JK:17:GLY:HA2	45:JK:20:CYS:SG	2.48	0.53
45:KA:177:VAL:HB	46:KB:331:LEU:HD11	1.89	0.53
46:KD:45:GLU:OE2	46:KD:46:ARG:NH1	2.41	0.53
45:KE:76:ASP:HA	45:KE:79:ARG:HG2	1.90	0.53
46:KL:128:ASP:OD1	46:KL:129:CYS:N	2.41	0.53
45:LE:141:VAL:HG12	45:LE:171:ILE:O	2.08	0.53
46:LH:187:LEU:HD11	46:LH:408:PHE:HE1	1.73	0.53
46:LJ:19:LYS:NZ	46:LJ:227:HIS:HB2	2.23	0.53
45:LK:269:LEU:HD23	45:LK:384:ILE:HD11	1.89	0.53
46:LN:289:LEU:HD11	46:LN:363:MET:HG3	1.91	0.53
46:LN:334:GLN:NE2	46:LN:348:ASN:OD1	2.42	0.53
46:LN:334:GLN:HE22	46:LN:348:ASN:H	1.56	0.53
45:MC:69:ASP:OD2	45:MC:70:LEU:N	2.41	0.53
45:MK:262:TYR:OH	46:MN:391:ARG:O	2.26	0.53
45:MK:271:SER:HB2	45:MK:377:MET:HB3	1.90	0.53
45:MM:183:GLU:OE1	45:MM:183:GLU:N	2.34	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MN:222:TYR:O	46:MN:226:ASN:ND2	2.26	0.53
45:NA:75:ILE:HG22	45:NA:79:ARG:NH1	2.23	0.53
46:NB:2:ARG:N	46:NB:129:CYS:SG	2.72	0.53
46:NH:345:ILE:HG22	46:NH:348:ASN:HB3	1.91	0.53
46:NJ:213:ARG:NH2	46:NJ:297:LYS:HB3	2.22	0.53
46:NJ:242:PHE:HB3	46:NJ:356:ILE:HD13	1.90	0.53
45:NM:49:PHE:HB2	45:NM:53:PHE:HB2	1.90	0.53
45:OI:221:ARG:HH22	46:OJ:321:MET:HA	1.72	0.53
45:OI:311:LYS:N	45:OI:382:THR:OG1	2.41	0.53
45:OK:212:ILE:HD11	45:OK:300:ASN:HA	1.90	0.53
46:PF:318:ARG:HB3	46:PF:357:PRO:HA	1.90	0.53
45:PI:141:VAL:HG11	45:PI:172:TYR:HD1	1.73	0.53
46:PN:86:ARG:HE	46:PN:87:PRO:HD2	1.74	0.53
46:QB:344:TRP:HB3	46:QB:430:ALA:HB2	1.89	0.53
45:QG:155:GLU:HA	45:QG:197:HIS:CE1	2.42	0.53
46:QH:375:GLN:OE1	46:QH:379:LYS:NZ	2.40	0.53
46:QJ:390:ARG:HD2	46:QJ:391:ARG:HG2	1.90	0.53
45:RG:280:LYS:HZ2	45:RG:283:HIS:HB2	1.74	0.53
46:RJ:217:LEU:HD23	46:RJ:219:THR:H	1.73	0.53
46:RL:235:GLY:HA3	46:RL:366:THR:HG21	1.90	0.53
45:RM:69:ASP:O	45:RM:94:SER:HA	2.07	0.53
46:TH:309:ARG:NH2	46:TH:426:GLN:O	2.33	0.53
46:TJ:27:GLU:OE2	46:TJ:241:ARG:NH2	2.37	0.53
46:TJ:318:ARG:HH21	46:TJ:357:PRO:C	2.12	0.53
46:TL:139:LEU:HD22	46:TL:170:VAL:HG12	1.89	0.53
46:TL:327:ASP:OD1	46:TL:328:GLU:N	2.41	0.53
46:UB:324:LYS:HZ1	45:UC:221:ARG:HH11	1.54	0.53
46:UF:131:GLN:HE22	46:UF:240:LEU:HD11	1.72	0.53
45:UK:188:ILE:HD11	45:UK:391:LEU:HB3	1.90	0.53
46:UL:254:ALA:O	46:UL:258:ILE:HG22	2.08	0.53
45:UM:292:THR:HG21	45:UM:331:SER:HB3	1.90	0.53
45:VA:75:ILE:HG21	45:VA:92:LEU:HB3	1.90	0.53
46:VD:186:THR:HA	46:VD:189:VAL:HG12	1.89	0.53
46:VF:267:MET:HE3	46:VF:301:CYS:HB2	1.90	0.53
46:VL:86:ARG:HA	46:VL:86:ARG:NH1	2.23	0.53
46:VN:119:VAL:O	46:VN:123:GLU:HG2	2.08	0.53
46:WB:9:GLY:HA2	46:WB:66:MET:O	2.08	0.53
46:WD:149:THR:HA	46:WD:152:ILE:HD12	1.91	0.53
46:WD:406:MET:O	46:WD:410:GLU:HG2	2.08	0.53
45:WI:150:GLY:O	45:WI:154:LEU:HD23	2.09	0.53
45:WI:248:LEU:HD12	45:WI:355:ILE:HD12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WI:396:ASP:OD1	45:WI:422:ARG:NH1	2.42	0.53
46:WJ:153:SER:HB3	46:WJ:154:LYS:NZ	2.23	0.53
45:WM:100:ALA:HB1	46:WN:252:LYS:HA	1.89	0.53
46:WN:376:GLU:N	46:WN:376:GLU:OE1	2.41	0.53
45:DC:88:HIS:CE1	45:DC:90:GLU:HG2	2.43	0.53
14:OV:46:PRO:HG3	45:LM:95:GLY:HA2	1.90	0.53
18:II:9:GLU:OE2	46:JD:219:THR:OG1	2.24	0.53
19:IJ:209:GLU:OE2	46:IJ:217:LEU:HD12	2.07	0.53
23:IO:133:MET:SD	46:UF:80:PRO:HB3	2.47	0.53
27:2C:232:PHE:CZ	46:JJ:53:GLU:HB3	2.44	0.53
25:2R:312:GLN:NE2	46:CH:361:LEU:HG	2.23	0.53
15:2X:70:TYR:CE1	46:MJ:362:LYS:HG2	2.42	0.53
14:3V:137:ASN:ND2	46:LD:425:TYR:OH	2.35	0.53
35:4S:209:ARG:NH2	46:WD:119:VAL:HG13	2.11	0.53
37:5E:80:LYS:HE2	45:KA:401:LYS:HA	1.90	0.53
34:5R:553:ILE:HG13	34:5R:606:PHE:HE1	1.73	0.53
46:AB:245:GLN:HB2	46:AB:353:ILE:HB	1.90	0.53
46:AJ:69:GLU:CD	46:AJ:71:GLY:H	2.11	0.53
45:AM:224:TYR:HE2	46:AN:246:LEU:HD11	1.72	0.53
45:BG:209:ILE:HG23	45:BG:230:LEU:HD23	1.90	0.53
45:BI:284:GLU:HG2	45:BI:286:LEU:HD22	1.90	0.53
46:BN:91:VAL:HG21	46:BN:116:VAL:HB	1.89	0.53
46:BN:235:GLY:HA2	46:BN:318:ARG:NH2	2.24	0.53
46:CF:86:ARG:NH2	46:DF:281:TYR:CE1	2.76	0.53
46:CH:73:MET:HB2	46:CH:90:PHE:CE1	2.43	0.53
45:DG:35:GLN:OE1	45:DG:36:MET:N	2.41	0.53
45:DG:346:TRP:CD1	46:DH:391:ARG:HG3	2.44	0.53
46:DJ:48:ASN:O	46:DJ:62:ARG:NH1	2.41	0.53
46:DL:375:GLN:HG2	46:DL:379:LYS:NZ	2.23	0.53
45:EC:338:LYS:HZ2	45:EC:340:THR:H	1.55	0.53
45:EG:172:TYR:OH	45:EG:191:THR:OG1	2.23	0.53
45:EG:352:LYS:HD2	46:EH:177:ASP:O	2.08	0.53
46:EH:204:ASN:OD1	49:EH:501:GDP:O2'	2.24	0.53
46:EH:294:PHE:HD1	46:EH:333:VAL:HG21	1.73	0.53
46:EJ:167:PHE:CZ	46:EJ:233:MET:HG3	2.43	0.53
45:EK:204:LEU:HD12	45:EK:231:ILE:HD12	1.90	0.53
46:EL:6:HIS:O	46:EL:63:ALA:HA	2.08	0.53
46:EN:237:THR:HG23	46:EN:241:ARG:HH21	1.73	0.53
45:FA:88:HIS:CE1	45:FA:90:GLU:HG2	2.43	0.53
46:FD:118:ASP:HB3	46:FD:122:LYS:NZ	2.23	0.53
46:FF:207:LEU:HB3	46:FF:225:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FG:155:GLU:OE2	45:FG:197:HIS:NE2	2.41	0.53
46:FN:137:HIS:HE1	46:FN:139:LEU:HD21	1.72	0.53
46:FN:215:LEU:HD21	46:FN:273:LEU:HD12	1.90	0.53
46:GB:178:THR:HB	46:GB:181:GLU:HG3	1.90	0.53
45:GM:288:VAL:HG11	45:GM:327:ASP:HB3	1.90	0.53
45:HA:10:GLY:O	45:HA:14:ILE:HG12	2.09	0.53
45:HC:195:LEU:O	45:HC:266:HIS:NE2	2.39	0.53
45:HC:210:TYR:HE1	45:HC:227:LEU:HD11	1.73	0.53
46:HF:163:ILE:HD12	46:HF:250:LEU:HD11	1.90	0.53
46:HF:257:LEU:HD11	46:HF:314:SER:HB2	1.91	0.53
46:HL:175:VAL:HG22	46:HL:205:GLU:HG3	1.91	0.53
45:HM:122:ILE:HD13	45:HM:157:LEU:HD21	1.89	0.53
45:IC:60:LYS:NZ	45:IC:85:GLN:O	2.41	0.53
46:JD:156:ARG:NH2	46:JD:197:ASP:OD1	2.42	0.53
45:JG:76:ASP:HA	45:JG:79:ARG:HD2	1.89	0.53
46:JH:341:PHE:HB3	46:JH:348:ASN:HD21	1.73	0.53
45:JK:181:VAL:HG13	45:JK:182:VAL:HG13	1.90	0.53
45:JM:136:LEU:HD22	45:JM:169:PHE:HE2	1.71	0.53
45:KK:1:MET:SD	45:KK:1:MET:N	2.66	0.53
46:LF:86:ARG:HD2	46:MF:281:TYR:CD1	2.43	0.53
46:LH:215:LEU:HD11	46:LH:273:LEU:HB3	1.90	0.53
45:LI:346:TRP:CD1	46:LL:391:ARG:HG3	2.43	0.53
45:LM:174:SER:HB3	45:LM:207:GLU:OE2	2.09	0.53
46:MF:3:GLU:OE2	46:MF:127:CYS:HB2	2.08	0.53
45:MG:175:PRO:HB3	45:MG:390:ARG:HH21	1.73	0.53
45:MG:407:TRP:HE1	46:MH:258:ILE:HG13	1.72	0.53
45:NC:82:THR:HG23	45:NC:83:TYR:CD1	2.44	0.53
45:NI:224:TYR:HD1	45:NI:227:LEU:HD12	1.73	0.53
46:NJ:45:GLU:OE2	46:NJ:46:ARG:NH1	2.41	0.53
45:NK:372:MET:HG2	45:NK:373:ARG:HD3	1.89	0.53
45:NM:21:TRP:CZ2	45:NM:65:ALA:HB2	2.43	0.53
45:OA:348:PRO:HG2	46:OD:384:GLN:HE22	1.72	0.53
45:OC:221:ARG:HH22	46:OD:320:ARG:HH12	1.55	0.53
46:OF:101:TRP:CE3	46:OF:187:LEU:HD13	2.44	0.53
46:OH:318:ARG:HB3	46:OH:357:PRO:HA	1.90	0.53
45:PA:154:LEU:HD22	45:PA:166:LYS:HD3	1.89	0.53
46:PD:99:ASN:OD1	46:PD:142:GLY:N	2.41	0.53
45:PE:211:ASP:OD2	45:PE:215:ARG:NE	2.34	0.53
45:PI:293:ASN:O	45:PI:297:GLU:HG2	2.09	0.53
46:PN:175:VAL:HG12	46:PN:205:GLU:HB3	1.91	0.53
45:QI:335:ILE:HA	45:QI:338:LYS:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QM:396:ASP:OD1	45:QM:397:LEU:N	2.42	0.53
46:QN:226:ASN:HD21	49:QN:501:GDP:HN1	1.55	0.53
46:RB:221:THR:HG23	46:RB:224:ASP:H	1.72	0.53
46:RD:67:ASP:OD1	46:RD:68:LEU:N	2.41	0.53
46:RD:200:MET:SD	46:RD:266:PHE:HD2	2.31	0.53
46:RF:139:LEU:HD22	46:RF:170:VAL:HG22	1.90	0.53
45:RG:260:VAL:HG23	46:RH:397:TRP:HH2	1.73	0.53
45:RI:155:GLU:HG2	45:RI:197:HIS:CD2	2.44	0.53
45:RI:318:MET:HB3	45:RI:376:CYS:SG	2.48	0.53
46:RJ:145:SER:HB2	46:RJ:188:SER:HB3	1.89	0.53
46:SF:12:CYS:O	46:SF:16:ILE:HG12	2.08	0.53
46:SH:6:HIS:O	46:SH:63:ALA:HA	2.07	0.53
46:SJ:58:ARG:HH21	46:TJ:281:TYR:HD1	1.55	0.53
46:TF:293:MET:HE3	46:TF:367:PHE:HB2	1.91	0.53
46:TJ:21:TRP:CE3	46:TJ:24:ILE:HD11	2.43	0.53
46:TL:73:MET:HA	46:TL:76:VAL:HG12	1.89	0.53
46:TL:345:ILE:HA	45:TM:398:MET:HE1	1.90	0.53
46:TN:260:PHE:HB2	46:TN:263:LEU:HD13	1.90	0.53
45:UE:387:VAL:HG12	45:UE:390:ARG:HH21	1.73	0.53
45:UG:223:THR:HG23	45:UG:225:THR:H	1.73	0.53
45:VC:263:PRO:HD3	46:VF:396:HIS:CD2	2.43	0.53
46:VF:201:VAL:O	46:VF:202:ILE:HD13	2.09	0.53
45:VG:101:ASN:HA	45:VG:144:GLY:H	1.72	0.53
46:VH:190:HIS:CD2	46:VH:411:ALA:HA	2.42	0.53
46:VL:47:ILE:HG21	46:VL:59:TYR:CE1	2.44	0.53
45:WC:122:ILE:HD13	45:WC:125:LEU:HD21	1.90	0.53
45:WC:174:SER:HB2	45:WC:177:VAL:O	2.09	0.53
46:WD:19:LYS:HA	46:WD:22:GLU:HG3	1.90	0.53
46:WF:3:GLU:HB2	46:WF:127:CYS:SG	2.49	0.53
46:WF:209:ASP:OD1	46:WF:213:ARG:NE	2.39	0.53
4:OD:75:ASP:OD2	46:EB:361:LEU:HA	2.07	0.53
11:OS:111:LYS:HB2	46:MB:157:GLU:OE1	2.07	0.53
11:OS:277:GLN:HE22	46:WB:122:LYS:HE3	1.72	0.53
19:1J:175:HIS:CD2	46:HH:48:ASN:HB3	2.44	0.53
21:1L:658:ARG:HG3	46:BF:41:ASP:HB3	1.91	0.53
24:2P:380:ARG:HB3	45:TM:370:LYS:NZ	2.23	0.53
36:5D:89:TYR:CD2	45:NM:364:PRO:HB3	2.41	0.53
39:6F:123:TYR:O	39:6F:124:ARG:HB2	2.08	0.53
46:AD:68:LEU:HB2	46:AD:147:MET:HE3	1.91	0.53
46:AD:202:ILE:HD11	46:AD:268:ILE:HD11	1.91	0.53
45:AI:241:SER:OG	45:AI:250:VAL:O	2.19	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BD:285:THR:HB	46:BD:287:PRO:HD2	1.90	0.53
46:BF:390:ARG:O	46:BF:392:LYS:NZ	2.42	0.53
45:BG:88:HIS:O	45:BG:91:GLN:HG2	2.09	0.53
45:BI:257:THR:HG22	46:BL:397:TRP:CZ3	2.43	0.53
46:BJ:232:ALA:HB1	46:BJ:268:ILE:HD12	1.91	0.53
46:CD:141:GLY:O	46:CD:145:SER:OG	2.22	0.53
46:CF:318:ARG:HH11	46:CF:358:PRO:HG3	1.73	0.53
45:CI:3:GLU:OE2	45:CI:131:GLY:N	2.40	0.53
46:CN:3:GLU:HG3	46:CN:62:ARG:NH1	2.23	0.53
45:DK:223:THR:HG23	45:DK:225:THR:H	1.73	0.53
46:EL:27:GLU:HA	46:EL:359:LYS:HD2	1.91	0.53
46:FB:32:PRO:O	46:FB:83:GLN:NE2	2.42	0.53
45:FC:280:LYS:HA	45:FC:283:HIS:CD2	2.33	0.53
46:FH:6:HIS:NE2	46:FH:8:GLN:OE1	2.41	0.53
46:FL:183:TYR:HE2	46:FL:388:MET:HB3	1.72	0.53
45:FM:141:VAL:HG11	45:FM:172:TYR:HD1	1.74	0.53
46:FN:116:VAL:HA	46:FN:119:VAL:HG12	1.91	0.53
45:HE:105:ARG:NH2	45:HE:411:GLU:OE2	2.41	0.53
45:HI:90:GLU:OE1	45:II:280:LYS:NZ	2.28	0.53
45:IA:195:LEU:HD21	45:IA:264:ARG:HH21	1.74	0.53
45:IA:241:SER:OG	45:IA:250:VAL:O	2.24	0.53
46:IN:186:THR:HA	46:IN:189:VAL:HG12	1.89	0.53
45:JA:345:ASP:OD1	45:JA:346:TRP:N	2.42	0.53
46:JD:141:GLY:O	46:JD:145:SER:OG	2.21	0.53
45:JK:34:GLY:HA3	45:JK:60:LYS:HG3	1.90	0.53
46:KD:239:CYS:SG	46:KD:247:ASN:HA	2.49	0.53
45:KM:7:ILE:HB	45:KM:137:VAL:HG12	1.90	0.53
46:LB:27:GLU:OE2	46:LB:318:ARG:NH2	2.31	0.53
45:ME:69:ASP:OD2	45:ME:70:LEU:N	2.41	0.53
45:NC:77:GLU:HA	45:NC:80:THR:HG22	1.90	0.53
46:ND:156:ARG:NH1	46:ND:195:ASN:HA	2.23	0.53
45:NE:79:ARG:O	45:NE:84:ARG:HG2	2.08	0.53
46:NF:289:LEU:HD13	46:NF:365:VAL:HG23	1.91	0.53
46:NF:386:THR:OG1	46:NF:390:ARG:NH2	2.41	0.53
45:NM:8:HIS:HB2	45:NM:67:PHE:HD1	1.71	0.53
45:OC:251:ASP:OD1	45:OC:252:ILE:N	2.41	0.53
46:OH:178:THR:HB	46:OH:181:GLU:HG2	1.90	0.53
45:OK:9:VAL:HG13	45:OK:139:ASN:HB3	1.90	0.53
45:OK:219:ILE:HG22	45:OK:222:PRO:HD3	1.90	0.53
46:PH:150:LEU:O	46:PH:154:LYS:HG2	2.08	0.53
46:QB:178:THR:HB	46:QB:181:GLU:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QC:386:GLU:O	45:QC:390:ARG:HG2	2.09	0.53
45:QE:296:PHE:HE2	45:QE:335:ILE:HG21	1.73	0.53
45:QG:206:ASN:OD1	47:QG:501:GTP:N2	2.38	0.53
45:QG:251:ASP:HB3	45:QG:253:THR:HG22	1.91	0.53
45:QG:349:THR:HG23	46:QH:179:VAL:HA	1.90	0.53
46:QH:48:ASN:O	46:QH:62:ARG:NH1	2.42	0.53
46:QH:285:THR:HG22	46:QH:287:PRO:HD2	1.89	0.53
46:QJ:70:PRO:HG3	46:QJ:92:PHE:HB2	1.91	0.53
45:QK:88:HIS:HE1	45:QK:90:GLU:HB2	1.72	0.53
45:QM:4:VAL:O	45:QM:64:ARG:NH1	2.41	0.53
46:RB:284:LEU:HD11	46:RB:362:LYS:HB2	1.90	0.53
46:RN:97:ALA:HA	46:RN:103:LYS:HG2	1.90	0.53
45:SE:206:ASN:OD1	47:SE:501:GTP:N2	2.41	0.53
45:SK:108:TYR:HA	45:SK:112:LYS:HE3	1.89	0.53
46:SN:226:ASN:HD21	49:SN:501:GDP:HN1	1.56	0.53
46:TD:282:ARG:NH2	46:TD:288:GLU:OE2	2.42	0.53
45:TE:422:ARG:NH2	45:TE:425:LEU:HD12	2.23	0.53
46:TF:200:MET:CE	46:TF:268:ILE:HD13	2.38	0.53
45:TG:88:HIS:HA	45:UG:283:HIS:CE1	2.43	0.53
45:TG:203:MET:HA	45:TG:203:MET:HE3	1.89	0.53
46:TL:324:LYS:HG2	45:TM:210:TYR:CE2	2.42	0.53
45:TM:35:GLN:HE22	45:TM:59:GLY:HA2	1.73	0.53
45:TM:55:GLU:HG3	45:TM:57:GLY:H	1.73	0.53
46:TN:372:THR:HA	46:TN:422:TYR:HE2	1.72	0.53
46:UN:318:ARG:HH22	46:UN:361:LEU:HB2	1.73	0.53
45:VA:174:SER:HB2	45:VA:177:VAL:O	2.07	0.53
45:VA:287:SER:O	45:VA:291:ILE:HG12	2.09	0.53
46:VB:207:LEU:HB3	46:VB:225:LEU:HD22	1.90	0.53
45:VC:21:TRP:CZ2	45:VC:65:ALA:HB2	2.43	0.53
46:VH:295:ASP:OD2	46:VH:297:LYS:HG2	2.07	0.53
46:VJ:12:CYS:O	46:VJ:16:ILE:HG12	2.09	0.53
46:VJ:164:MET:HE3	46:VJ:196:ALA:HA	1.90	0.53
45:VM:55:GLU:HG3	45:VM:57:GLY:H	1.72	0.53
46:VN:2:ARG:HA	46:VN:131:GLN:NE2	2.23	0.53
46:WH:406:MET:O	46:WH:410:GLU:HG2	2.09	0.53
46:WN:65:LEU:HD22	46:WN:90:PHE:CE1	2.42	0.53
19:IJ:216:GLN:HB2	46:IJ:360:GLY:O	2.07	0.53
21:IL:894:ARG:HH12	45:CC:365:GLY:H	1.55	0.53
23:IO:271:ALA:HB3	45:UA:279:GLU:N	2.22	0.53
11:IS:26:ILE:HD11	45:WC:45:GLY:HA3	1.88	0.53
4:2D:212:ASN:ND2	34:5R:433:GLN:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:2I:78:PRO:HB3	45:GE:298:PRO:HD3	1.91	0.53
21:2L:750:ASN:HD21	46:BL:320:ARG:HH22	1.55	0.53
33:4F:222:HIS:NE2	46:HN:41:ASP:O	2.42	0.53
36:5B:82:ASP:HA	36:5B:85:ARG:HH12	1.72	0.53
37:5G:35:LEU:HD13	37:5G:36:PRO:HD2	1.91	0.53
39:6F:33:PRO:HG2	39:6F:66:ASN:HA	1.90	0.53
45:AC:414:GLU:CD	45:AC:416:GLY:H	2.12	0.53
46:AN:26:ASP:O	46:AN:359:LYS:NZ	2.28	0.53
46:AN:222:TYR:O	46:AN:226:ASN:ND2	2.30	0.53
45:BA:179:THR:HG22	46:BB:350:LYS:HZ1	1.72	0.53
45:BE:263:PRO:HD3	46:BH:396:HIS:NE2	2.24	0.53
46:BL:207:LEU:HB3	46:BL:225:LEU:HD22	1.89	0.53
45:BM:188:ILE:HG13	45:BM:425:LEU:HD11	1.90	0.53
46:CB:317:PHE:CD2	46:CB:365:VAL:HG22	2.43	0.53
45:CG:192:HIS:ND1	45:CG:424:ASP:OD2	2.42	0.53
45:DA:296:PHE:CE2	45:DA:335:ILE:HG13	2.43	0.53
46:DB:350:LYS:NZ	45:DC:180:ALA:HA	2.22	0.53
46:DD:54:ALA:HA	46:ED:283:ALA:HB2	1.90	0.53
45:DE:51:THR:HG21	45:DE:243:ARG:HB3	1.91	0.53
45:DG:36:MET:SD	45:DG:37:PRO:HD2	2.48	0.53
46:DJ:318:ARG:HH11	46:DJ:358:PRO:HG3	1.74	0.53
46:ED:378:PHE:HA	46:ED:381:VAL:HG12	1.90	0.53
46:EH:318:ARG:HH11	46:EH:358:PRO:HG3	1.74	0.53
45:EK:195:LEU:HD21	45:EK:428:LEU:HD21	1.90	0.53
45:EM:184:PRO:O	45:EM:188:ILE:HG12	2.08	0.53
45:EM:426:ALA:HB1	45:EM:430:LYS:NZ	2.24	0.53
46:FN:268:ILE:HD12	46:FN:270:PHE:HE2	1.72	0.53
46:GD:190:HIS:CD2	46:GD:411:ALA:HA	2.43	0.53
45:GG:276:ILE:HD11	45:GG:280:LYS:HG3	1.89	0.53
46:GJ:257:LEU:HD21	46:GJ:314:SER:HB2	1.91	0.53
45:HA:242:LEU:HD11	45:HA:252:ILE:HG12	1.89	0.53
46:HF:121:ARG:NH2	46:HF:158:GLU:OE2	2.34	0.53
45:HI:322:ASP:OD1	45:HI:373:ARG:NH1	2.42	0.53
46:HL:163:ILE:HD11	46:HL:251:ARG:HH11	1.74	0.53
46:HL:178:THR:HG22	46:HL:180:VAL:H	1.72	0.53
45:HM:88:HIS:O	45:HM:91:GLN:HG2	2.09	0.53
46:HN:118:ASP:HB3	46:HN:122:LYS:NZ	2.23	0.53
46:IB:86:ARG:NE	46:IB:87:PRO:HD2	2.19	0.53
46:IL:128:ASP:OD1	46:IL:129:CYS:N	2.41	0.53
45:JG:420:GLU:OE2	45:NG:308:ARG:NH1	2.32	0.53
46:JJ:150:LEU:O	46:JJ:154:LYS:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JM:170:THR:O	45:JM:204:LEU:HB2	2.08	0.53
45:KC:345:ASP:OD1	45:KC:346:TRP:N	2.41	0.53
45:KG:371:VAL:HG12	45:KG:373:ARG:H	1.72	0.53
46:KH:9:GLY:HA2	46:KH:66:MET:O	2.09	0.53
45:KK:210:TYR:HH	46:KL:323:THR:HG1	1.57	0.53
46:KL:108:GLU:HA	46:KL:111:GLU:OE2	2.08	0.53
46:KL:304:ASP:OD1	46:KL:306:ARG:NH1	2.41	0.53
45:KM:251:ASP:HB2	45:KM:253:THR:HG22	1.91	0.53
45:LA:220:GLU:O	46:LB:324:LYS:NZ	2.29	0.53
46:LF:5:VAL:HG12	46:LF:62:ARG:HD3	1.90	0.53
46:LH:20:PHE:HA	46:LH:230:SER:OG	2.07	0.53
45:ME:75:ILE:O	45:ME:79:ARG:HG2	2.09	0.53
46:MF:22:GLU:HG2	46:MF:81:PHE:HD2	1.74	0.53
45:MG:260:VAL:HB	46:MJ:397:TRP:CH2	2.43	0.53
45:MM:145:THR:HG22	47:MM:501:GTP:PG	2.49	0.53
46:NB:103:LYS:NZ	46:NB:401:GLU:OE2	2.41	0.53
46:NB:248:SER:HA	46:NB:252:LYS:HD2	1.91	0.53
45:NI:17:GLY:HA2	45:NI:20:CYS:SG	2.49	0.53
45:NK:335:ILE:HG22	45:NK:341:ILE:HD11	1.90	0.53
46:OB:329:GLN:HA	46:OB:332:ASN:HD21	1.72	0.53
46:OD:318:ARG:HG2	46:OD:357:PRO:HA	1.89	0.53
46:OJ:148:GLY:O	46:OJ:152:ILE:HG12	2.09	0.53
46:OJ:329:GLN:HA	46:OJ:332:ASN:HD21	1.73	0.53
46:ON:148:GLY:O	46:ON:152:ILE:HG12	2.09	0.53
45:PE:398:MET:HE3	46:PF:345:ILE:HA	1.90	0.53
45:PM:101:ASN:HA	45:PM:144:GLY:H	1.74	0.53
45:PM:394:LYS:NZ	46:PN:347:ASN:OD1	2.41	0.53
45:QA:316:SER:O	45:QA:378:ILE:HG22	2.09	0.53
45:QE:11:GLN:H	45:QE:11:GLN:CD	2.12	0.53
45:QE:36:MET:SD	45:QE:37:PRO:HD2	2.48	0.53
45:QG:311:LYS:HZ1	45:QG:343:PHE:C	2.11	0.53
45:QI:332:ILE:HA	45:QI:335:ILE:HG22	1.91	0.53
45:QK:231:ILE:O	45:QK:235:ILE:HG12	2.08	0.53
46:RD:262:ARG:HG3	46:RD:263:LEU:HD12	1.91	0.53
45:RG:85:GLN:H	45:RG:85:GLN:CD	2.12	0.53
45:RG:238:LEU:HD21	45:RG:255:PHE:HE2	1.74	0.53
45:RI:69:ASP:O	45:RI:94:SER:HA	2.07	0.53
45:RK:12:GLY:HA2	45:RK:15:GLN:HE21	1.73	0.53
45:RK:49:PHE:HB2	45:RK:53:PHE:HD1	1.74	0.53
45:SE:255:PHE:HA	45:SE:259:LEU:HD23	1.91	0.53
45:SK:83:TYR:H	45:SK:84:ARG:HH11	1.57	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TH:318:ARG:HB3	46:TH:357:PRO:HA	1.90	0.53
45:TM:389:SER:O	45:TM:393:HIS:ND1	2.32	0.53
45:UC:101:ASN:ND2	47:UC:501:GTP:O1G	2.41	0.53
46:UD:16:ILE:HD12	46:UD:229:VAL:HG21	1.89	0.53
45:UE:75:ILE:HG23	45:UE:92:LEU:HD23	1.90	0.53
45:UG:123:ARG:HE	45:UG:124:LYS:HE2	1.73	0.53
45:UG:292:THR:HG21	45:UG:331:SER:HB3	1.90	0.53
46:UL:309:ARG:NH2	46:UL:426:GLN:O	2.29	0.53
45:VC:141:VAL:HG11	45:VC:172:TYR:CD1	2.44	0.53
46:VD:164:MET:SD	46:VD:166:THR:OG1	2.63	0.53
45:VI:8:HIS:HB2	45:VI:67:PHE:HD1	1.73	0.53
46:VL:148:GLY:O	46:VL:152:ILE:HG12	2.08	0.53
45:VM:340:THR:HG23	45:VM:341:ILE:HG13	1.90	0.53
46:VN:173:PRO:HD3	46:VN:380:ARG:NH1	2.23	0.53
46:VN:386:THR:O	46:VN:390:ARG:HG2	2.09	0.53
45:WE:287:SER:O	45:WE:290:GLU:HG2	2.09	0.53
7:OG:97:ASN:O	46:JN:359:LYS:NZ	2.41	0.53
18:II:218:THR:HB	45:LE:322:ASP:HB3	1.90	0.53
21:IL:314:ASN:HB2	46:BH:320:ARG:HH22	1.74	0.53
23:IO:185:ARG:HD3	46:UD:280:GLN:HG3	1.90	0.53
23:IO:192:TYR:HB2	46:UD:276:ARG:HH12	1.72	0.53
40:6G:133:ASN:N	40:6G:134:PRO:HD3	2.24	0.53
45:AA:259:LEU:HD11	45:AA:316:SER:HB2	1.91	0.53
45:AA:337:THR:O	45:AA:339:ARG:NH1	2.42	0.53
45:AC:164:LYS:O	45:AC:166:LYS:NZ	2.41	0.53
46:AF:178:THR:HB	46:AF:181:GLU:HG3	1.89	0.53
46:AH:55:THR:HG23	46:BH:283:ALA:HA	1.91	0.53
45:AI:184:PRO:O	45:AI:188:ILE:HG12	2.09	0.53
46:AJ:84:LEU:O	46:AJ:86:ARG:NH1	2.41	0.53
46:BB:221:THR:HG23	46:BB:224:ASP:H	1.73	0.53
46:BD:190:HIS:CD2	46:BD:411:ALA:HA	2.43	0.53
45:BG:275:ILE:HD13	45:BG:368:LEU:HD11	1.91	0.53
45:BG:298:PRO:HA	45:BG:301:MET:HE2	1.89	0.53
46:BH:113:ILE:HG12	46:BH:117:LEU:HG	1.91	0.53
45:BK:115:VAL:HG11	45:BK:152:LEU:HD23	1.91	0.53
46:CN:91:VAL:HG21	46:CN:116:VAL:HB	1.89	0.53
46:DF:209:ASP:OD1	46:DF:213:ARG:NE	2.41	0.53
45:DG:319:TYR:HB3	45:DG:323:VAL:HG21	1.90	0.53
46:DH:256:ASN:HB3	46:DH:257:LEU:HD12	1.90	0.53
46:DJ:289:LEU:HD13	46:DJ:365:VAL:HG23	1.90	0.53
46:DJ:304:ASP:OD1	46:DJ:306:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DM:311:LYS:N	45:DM:382:THR:OG1	2.41	0.53
45:DM:395:PHE:HZ	45:DM:418:PHE:HB3	1.74	0.53
46:DN:100:ASN:HD21	46:DN:102:ALA:HB3	1.74	0.53
46:EB:21:TRP:CZ3	46:EB:61:PRO:HB3	2.44	0.53
45:EC:223:THR:HG23	45:EC:225:THR:H	1.74	0.53
46:EF:122:LYS:HD2	46:FF:291:GLN:NE2	2.24	0.53
45:EK:56:THR:HG21	45:EK:60:LYS:HG3	1.91	0.53
46:EL:3:GLU:HG3	46:EL:62:ARG:NH1	2.23	0.53
46:FH:66:MET:HA	46:FH:91:VAL:O	2.09	0.53
46:FH:178:THR:HG22	46:FH:180:VAL:H	1.74	0.53
46:FJ:99:ASN:HA	46:FJ:142:GLY:H	1.72	0.53
45:HE:184:PRO:O	45:HE:188:ILE:HG12	2.09	0.53
45:HE:407:TRP:HZ2	46:HF:258:ILE:HD11	1.73	0.53
46:HH:86:ARG:HB3	46:HH:89:ASN:OD1	2.09	0.53
46:HH:309:ARG:NH2	46:HH:341:PHE:O	2.42	0.53
46:HN:139:LEU:HD13	46:HN:168:SER:HB3	1.90	0.53
46:HN:313:ALA:HB1	46:HN:367:PHE:HE1	1.72	0.53
46:IH:167:PHE:CE2	46:IH:233:MET:HG2	2.44	0.53
45:II:147:SER:HB2	45:II:190:SER:HB3	1.91	0.53
46:IJ:44:LEU:HA	46:IJ:47:ILE:HG23	1.91	0.53
46:IJ:187:LEU:HD11	46:IJ:408:PHE:HE2	1.73	0.53
47:IK:501:GTP:O1G	46:IL:252:LYS:NZ	2.42	0.53
45:IM:36:MET:SD	45:IM:37:PRO:HD2	2.49	0.53
45:IM:207:GLU:HA	45:IM:210:TYR:HB2	1.90	0.53
46:JF:73:MET:HE1	46:JF:92:PHE:HB3	1.91	0.53
45:JG:33:ASP:N	45:JG:33:ASP:OD2	2.42	0.53
46:JJ:9:GLY:HA2	46:JJ:66:MET:O	2.09	0.53
45:JK:230:LEU:O	45:JK:234:VAL:HG23	2.09	0.53
45:KI:326:LYS:HZ3	46:KL:220:PRO:CD	2.22	0.53
46:KJ:208:TYR:HE2	46:KJ:225:LEU:HD11	1.74	0.53
45:KM:75:ILE:HD11	45:KM:92:LEU:HB3	1.91	0.53
45:LK:147:SER:HB2	45:LK:190:SER:HB3	1.89	0.53
45:MC:147:SER:HB2	45:MC:190:SER:HB3	1.90	0.53
45:MI:171:ILE:O	45:MI:171:ILE:HG13	2.07	0.53
46:MJ:66:MET:HE2	46:MJ:147:MET:HG2	1.91	0.53
45:MM:427:ALA:HA	45:MM:430:LYS:HG2	1.91	0.53
46:NH:285:THR:N	46:NH:288:GLU:OE2	2.40	0.53
46:NJ:19:LYS:O	46:NJ:22:GLU:HG3	2.09	0.53
46:NJ:60:VAL:HG11	46:NJ:86:ARG:HH21	1.74	0.53
45:OA:251:ASP:OD2	45:OA:253:THR:HG22	2.08	0.53
45:OC:221:ARG:HH22	46:OD:320:ARG:HH22	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OE:141:VAL:HG22	45:OE:187:SER:HA	1.90	0.53
46:OF:253:LEU:O	46:OF:257:LEU:HB2	2.08	0.53
45:OG:5:ILE:HD11	45:OG:132:LEU:HD11	1.90	0.53
45:OI:222:PRO:HG2	46:OJ:324:LYS:HE2	1.90	0.53
45:OK:147:SER:HB2	45:OK:190:SER:HB2	1.89	0.53
46:PB:221:THR:HG23	46:PB:224:ASP:H	1.74	0.53
46:PF:207:LEU:HD13	46:PF:225:LEU:HB3	1.89	0.53
46:QB:48:ASN:O	46:QB:62:ARG:NH1	2.41	0.53
46:QB:260:PHE:HB2	46:QB:263:LEU:HD13	1.90	0.53
46:QD:169:VAL:HG12	46:QD:202:ILE:HB	1.90	0.53
46:QF:11:GLN:HA	46:QF:72:THR:HG21	1.90	0.53
45:RA:55:GLU:HG3	45:RA:57:GLY:H	1.74	0.53
46:RB:375:GLN:HB2	46:RB:379:LYS:HZ2	1.74	0.53
45:RG:88:HIS:CG	45:RG:121:ARG:HH22	2.26	0.53
46:RH:217:LEU:HD23	46:RH:219:THR:H	1.73	0.53
46:RJ:204:ASN:HD21	49:RJ:501:GDP:HN22	1.57	0.53
46:RJ:375:GLN:HG3	46:RJ:419:VAL:HG13	1.91	0.53
45:SG:348:PRO:HD2	46:SH:388:MET:HE2	1.90	0.53
45:SI:259:LEU:HD21	45:SI:316:SER:HB3	1.90	0.53
45:TA:292:THR:HG21	45:TA:331:SER:HB3	1.91	0.53
45:TC:11:GLN:H	47:TC:501:GTP:PB	2.31	0.53
46:TJ:148:GLY:O	46:TJ:152:ILE:HG12	2.07	0.53
45:UA:167:LEU:HG	45:UA:200:VAL:HB	1.91	0.53
46:UB:51:TYR:HB3	46:UB:59:TYR:HB3	1.91	0.53
45:UG:205:ASP:N	45:UG:205:ASP:OD2	2.41	0.53
46:UJ:117:LEU:HA	46:UJ:120:VAL:HG12	1.90	0.53
46:UJ:256:ASN:HB3	46:UJ:350:LYS:HE3	1.89	0.53
46:VF:417:ASP:O	46:VF:421:GLU:HG3	2.08	0.53
46:VH:67:ASP:OD1	46:VH:68:LEU:N	2.41	0.53
46:VH:209:ASP:OD2	46:VH:213:ARG:NH1	2.42	0.53
45:VK:10:GLY:O	45:VK:14:ILE:HG12	2.09	0.53
46:VN:118:ASP:OD1	46:VN:121:ARG:NH2	2.30	0.53
45:WA:116:ASP:HA	45:WA:119:LEU:HG	1.90	0.53
45:WC:208:ALA:O	45:WC:212:ILE:HG12	2.09	0.53
45:WE:114:ILE:HD12	45:WE:117:LEU:HD12	1.91	0.53
46:WF:174:LYS:HE2	46:WF:205:GLU:OE1	2.08	0.53
46:WJ:164:MET:SD	46:WJ:196:ALA:HA	2.49	0.53
46:WL:409:THR:O	46:WL:412:GLU:HG3	2.09	0.53
45:WM:340:THR:HG23	45:WM:341:ILE:HG13	1.91	0.53
46:WN:237:THR:HG23	46:WN:241:ARG:HE	1.73	0.53
45:CE:136:LEU:HD23	45:CE:167:LEU:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0D:170:PRO:HA	45:EC:84:ARG:HH21	1.73	0.53
4:0D:225:ARG:CZ	34:7R:566:PHE:HB2	2.38	0.53
31:2I:83:ARG:NH1	45:GE:299:ALA:HA	2.24	0.53
1:3A:136:ASN:ND2	46:AN:245:GLN:OE1	2.41	0.53
34:4R:593:ASP:OD2	34:4R:597:ASN:N	2.40	0.53
15:4X:2:LYS:HB2	45:LI:245:ASP:HB3	1.91	0.53
36:5B:21:GLN:O	36:5B:62:PRO:HD3	2.08	0.53
37:5H:117:ILE:HG22	37:5H:119:GLU:H	1.73	0.53
34:5R:278:TYR:HD1	34:5R:285:THR:HB	1.74	0.53
41:6H:319:MET:HB2	41:6H:323:TYR:CZ	2.43	0.53
10:6Q:7:GLN:HB3	10:6Q:73:LEU:HD11	1.91	0.53
34:6R:272:ASN:ND2	34:6R:274:TYR:OH	2.41	0.53
46:AB:100:ASN:HD22	46:AB:103:LYS:HB2	1.73	0.53
45:AE:11:GLN:NE2	46:AF:245:GLN:O	2.41	0.53
45:AG:227:LEU:O	45:AG:231:ILE:HD12	2.09	0.53
45:AI:9:VAL:HG12	45:AI:68:LEU:HB2	1.89	0.53
45:AM:387:VAL:HG12	45:AM:390:ARG:HH21	1.73	0.53
45:BA:191:THR:HA	45:BA:194:LEU:HG	1.90	0.53
45:BG:71:GLU:HG3	45:BG:98:ASP:HB2	1.89	0.53
46:BL:67:ASP:OD1	46:BL:68:LEU:N	2.42	0.53
46:BN:221:THR:HG23	46:BN:224:ASP:H	1.73	0.53
46:CD:149:THR:HA	46:CD:152:ILE:HD12	1.91	0.53
46:CF:132:GLY:HA3	46:CF:163:ILE:HG22	1.90	0.53
46:CF:141:GLY:O	46:CF:145:SER:HB2	2.09	0.53
45:CG:155:GLU:HG3	45:CG:156:ARG:NH1	2.24	0.53
45:CI:121:ARG:HH12	45:CI:124:LYS:HG3	1.73	0.53
46:CJ:304:ASP:OD2	46:CJ:306:ARG:HG2	2.09	0.53
45:CM:10:GLY:O	45:CM:14:ILE:HG12	2.08	0.53
46:CN:5:VAL:HG12	46:CN:62:ARG:HD3	1.91	0.53
46:CN:54:ALA:HB3	46:CN:58:ARG:HG2	1.91	0.53
46:DH:350:LYS:NZ	46:DH:352:SER:OG	2.42	0.53
46:DN:3:GLU:HB2	46:DN:62:ARG:HH22	1.74	0.53
46:DN:3:GLU:HB2	46:DN:62:ARG:NH2	2.23	0.53
46:EB:296:ALA:HB2	46:EB:306:ARG:HH22	1.74	0.53
46:EH:148:GLY:O	46:EH:152:ILE:HG12	2.09	0.53
46:EJ:103:LYS:O	46:EJ:107:THR:OG1	2.27	0.53
45:EK:325:PRO:HB2	46:EL:208:TYR:OH	2.08	0.53
45:FC:27:GLU:OE1	45:FC:243:ARG:NH1	2.41	0.53
46:FD:420:SER:O	46:FD:423:GLN:HG3	2.08	0.53
45:FG:287:SER:N	45:FG:290:GLU:OE2	2.35	0.53
45:FK:424:ASP:O	45:FK:428:LEU:HD23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:192:HIS:HD2	45:GA:421:ALA:HA	1.73	0.53
45:GC:121:ARG:HH12	45:GC:124:LYS:HZ3	1.56	0.53
46:GF:133:PHE:HB2	46:GF:164:MET:SD	2.49	0.53
45:GG:205:ASP:N	45:GG:205:ASP:OD2	2.41	0.53
46:HB:39:ASP:OD1	46:HB:40:SER:N	2.41	0.53
45:HE:407:TRP:HE1	46:HF:258:ILE:HG13	1.73	0.53
45:HG:101:ASN:HA	45:HG:144:GLY:H	1.73	0.53
45:HM:101:ASN:HA	45:HM:144:GLY:H	1.73	0.53
46:IB:135:ILE:HG13	46:IB:152:ILE:HD11	1.91	0.53
45:IC:326:LYS:HE3	46:IF:220:PRO:HD2	1.91	0.53
45:IG:208:ALA:O	45:IG:212:ILE:HG12	2.09	0.53
45:JC:7:ILE:HB	45:JC:137:VAL:HG12	1.90	0.53
45:JE:336:LYS:HE3	45:JE:351:PHE:HE2	1.74	0.53
46:JH:207:LEU:HB3	46:JH:225:LEU:HD22	1.89	0.53
46:JH:207:LEU:HD13	46:JH:225:LEU:HB3	1.91	0.53
46:JN:47:ILE:HD12	46:JN:59:TYR:HE2	1.73	0.53
45:KG:414:GLU:CD	45:KG:416:GLY:H	2.12	0.53
45:KI:88:HIS:HB3	45:KI:91:GLN:HB2	1.90	0.53
45:KK:320:ARG:HD3	45:KK:360:PRO:HG3	1.91	0.53
46:LD:173:PRO:HG3	46:LD:380:ARG:HD2	1.91	0.53
46:LD:202:ILE:HD11	46:LD:268:ILE:HD11	1.91	0.53
46:LF:97:ALA:HB2	46:LF:143:THR:HB	1.91	0.53
45:LI:217:LEU:HD11	45:LI:368:LEU:HD23	1.91	0.53
46:LL:73:MET:HG3	46:LL:77:ARG:HH21	1.73	0.53
45:LM:155:GLU:HG3	45:LM:197:HIS:CD2	2.43	0.53
46:MH:9:GLY:HA2	46:MH:66:MET:O	2.09	0.53
45:MI:306:ASP:OD1	45:MI:308:ARG:NH1	2.42	0.53
46:ML:102:ALA:O	46:ML:106:TYR:HB2	2.09	0.53
46:NH:313:ALA:HB1	46:NH:367:PHE:HE1	1.74	0.53
45:NK:328:VAL:HG11	45:NK:353:VAL:HG21	1.91	0.53
45:OA:211:ASP:O	45:OA:215:ARG:HG2	2.09	0.53
45:OE:252:ILE:HA	45:OE:255:PHE:HE2	1.74	0.53
45:OE:280:LYS:HG3	45:OE:280:LYS:O	2.08	0.53
46:OF:380:ARG:O	46:OF:383:GLU:HG3	2.09	0.53
45:OK:251:ASP:OD1	45:OK:254:GLU:HG2	2.09	0.53
45:OM:234:VAL:HG22	45:OM:272:TYR:HB2	1.90	0.53
46:ON:46:ARG:HD2	46:ON:241:ARG:HA	1.89	0.53
46:ON:257:LEU:HD11	46:ON:314:SER:HB3	1.91	0.53
45:PA:293:ASN:O	45:PA:297:GLU:HG2	2.09	0.53
45:PC:121:ARG:HE	45:PC:124:LYS:HE2	1.73	0.53
45:PI:419:SER:O	45:PI:423:GLU:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PL:208:TYR:CE1	46:PL:225:LEU:HD11	2.43	0.53
46:QB:165:GLU:OE2	46:QB:198:GLU:HG3	2.09	0.53
45:QC:326:LYS:HD3	46:QD:212:PHE:CZ	2.43	0.53
45:QG:174:SER:HB3	45:QG:177:VAL:O	2.09	0.53
45:QI:3:GLU:HG2	45:QI:64:ARG:NE	2.24	0.53
46:QJ:341:PHE:HD2	46:QJ:348:ASN:HD21	1.57	0.53
45:QK:227:LEU:O	45:QK:231:ILE:HD12	2.08	0.53
45:QM:242:LEU:HD11	45:QM:252:ILE:HG13	1.90	0.53
45:RE:324:VAL:HG12	45:RE:326:LYS:H	1.73	0.53
46:RJ:86:ARG:NH2	46:SJ:278:SER:OG	2.42	0.53
45:SG:288:VAL:HA	45:SG:291:ILE:HG12	1.90	0.53
46:SJ:63:ALA:O	46:SJ:89:ASN:ND2	2.40	0.53
45:SK:210:TYR:O	45:SK:214:ARG:HG2	2.08	0.53
45:SM:434:GLU:O	46:SN:391:ARG:NH2	2.41	0.53
46:TD:67:ASP:OD1	46:TD:68:LEU:N	2.41	0.53
46:TD:256:ASN:HD21	45:TE:180:ALA:HA	1.73	0.53
46:TD:256:ASN:OD1	45:TE:181:VAL:HG22	2.08	0.53
45:TE:88:HIS:ND1	45:TE:91:GLN:OE1	2.42	0.53
46:TL:262:ARG:HH21	46:TL:418:LEU:HD22	1.72	0.53
45:UC:188:ILE:HD11	45:UC:391:LEU:HB3	1.90	0.53
45:UE:209:ILE:HD11	45:UE:230:LEU:HD23	1.91	0.53
45:UE:352:LYS:HZ1	46:UF:179:VAL:HG22	1.73	0.53
45:UM:88:HIS:HA	45:VK:280:LYS:HE3	1.90	0.53
45:VA:98:ASP:OD1	45:VA:99:ALA:N	2.41	0.53
45:VC:136:LEU:HD23	45:VC:167:LEU:HB2	1.91	0.53
45:VC:212:ILE:HD11	45:VC:300:ASN:HA	1.89	0.53
45:VE:1:MET:O	45:VE:131:GLY:HA3	2.09	0.53
45:VG:155:GLU:OE1	45:VG:156:ARG:HD2	2.09	0.53
46:VH:406:MET:O	46:VH:410:GLU:HG2	2.09	0.53
45:VM:206:ASN:OD1	47:VM:501:GTP:N2	2.42	0.53
46:VN:313:ALA:HB1	46:VN:367:PHE:CE1	2.44	0.53
7:1G:132:ARG:HH12	45:JA:82:THR:HB	1.73	0.53
19:1J:357:GLY:HA2	46:IN:280:GLN:HE22	1.72	0.53
25:2R:283:ARG:NH1	45:CG:46:ASP:OD1	2.41	0.53
23:3O:427:LEU:HD11	45:UG:278:ALA:HB1	1.90	0.53
25:3R:252:LEU:HD21	45:CK:282:TYR:CE1	2.42	0.53
35:4S:160:THR:O	35:4S:164:LYS:HG2	2.09	0.53
36:5A:62:PRO:O	36:5A:63:THR:OG1	2.25	0.53
37:5E:63:HIS:HD2	46:NB:58:ARG:CZ	2.22	0.53
37:5H:133:PRO:HB2	37:5H:136:LEU:HB2	1.90	0.53
34:6R:430:LEU:HD21	34:6R:437:ASP:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:94:ARG:HD2	34:7R:184:ASP:HB2	1.90	0.53
45:AE:116:ASP:N	45:AE:116:ASP:OD2	2.41	0.53
46:AF:5:VAL:HG12	46:AF:62:ARG:HD3	1.90	0.53
45:BA:147:SER:HB2	45:BA:190:SER:HB3	1.91	0.53
45:BA:407:TRP:CZ3	46:BB:255:VAL:HA	2.44	0.53
46:BH:186:THR:HA	46:BH:189:VAL:HG12	1.91	0.53
46:BJ:390:ARG:HG3	46:BJ:390:ARG:HH11	1.73	0.53
46:CL:217:LEU:HB3	46:CL:220:PRO:HG3	1.91	0.53
45:DA:288:VAL:HG11	45:DA:327:ASP:HB3	1.91	0.53
46:DH:65:LEU:HD12	46:DH:90:PHE:CE1	2.44	0.53
46:DH:99:ASN:ND2	46:DH:178:THR:HG21	2.23	0.53
45:DI:419:SER:O	45:DI:423:GLU:HG2	2.09	0.53
45:EA:135:PHE:HB2	45:EA:166:LYS:HG2	1.90	0.53
46:EF:3:GLU:HG3	46:EF:62:ARG:NH1	2.24	0.53
46:FB:350:LYS:NZ	46:FB:352:SER:OG	2.38	0.53
46:FJ:23:VAL:HG21	46:FJ:230:SER:HB3	1.91	0.53
46:FJ:178:THR:HB	46:FJ:181:GLU:HG3	1.90	0.53
46:FJ:318:ARG:HB3	46:FJ:357:PRO:HA	1.91	0.53
46:FN:68:LEU:HD12	46:FN:93:GLY:HA3	1.90	0.53
45:GE:297:GLU:OE2	45:GE:299:ALA:HB3	2.07	0.53
45:GG:76:ASP:OD1	45:GG:79:ARG:NH2	2.41	0.53
45:HA:109:THR:OG1	45:HA:411:GLU:OE2	2.16	0.53
45:HE:22:GLU:OE2	45:HE:83:TYR:OH	2.22	0.53
46:HF:192:LEU:HD21	46:HF:199:CYS:HB2	1.91	0.53
46:HH:254:ALA:O	46:HH:258:ILE:HG22	2.08	0.53
46:HJ:293:MET:HE2	46:HJ:367:PHE:HB2	1.91	0.53
46:ID:186:THR:HA	46:ID:189:VAL:HG12	1.91	0.53
45:IE:71:GLU:OE1	45:IE:73:THR:OG1	2.20	0.53
45:IM:176:GLN:HE22	46:IN:331:LEU:HD11	1.73	0.53
45:IM:181:VAL:HG23	45:IM:182:VAL:HG23	1.91	0.53
45:JG:76:ASP:OD2	46:JH:46:ARG:NH2	2.41	0.53
45:KC:308:ARG:HG2	45:NC:282:TYR:CZ	2.43	0.53
46:KN:6:HIS:O	46:KN:63:ALA:HA	2.08	0.53
45:LA:395:PHE:HZ	45:LA:418:PHE:HB3	1.74	0.53
46:LB:221:THR:HG23	46:LB:224:ASP:H	1.73	0.53
45:LC:326:LYS:NZ	46:LF:208:TYR:O	2.42	0.53
45:LE:224:TYR:HD1	45:LE:227:LEU:HD12	1.73	0.53
46:LH:386:THR:O	46:LH:390:ARG:HG2	2.08	0.53
45:LI:136:LEU:HD23	45:LI:167:LEU:HB2	1.91	0.53
46:LJ:334:GLN:HE22	46:LJ:348:ASN:H	1.55	0.53
46:LL:3:GLU:HG3	46:LL:62:ARG:NH1	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:222:TYR:O	46:LL:226:ASN:ND2	2.27	0.53
45:MA:272:TYR:HD2	45:MA:275:ILE:HD11	1.74	0.53
46:MB:313:ALA:HB1	46:MB:367:PHE:HE1	1.74	0.53
46:MD:222:TYR:O	46:MD:226:ASN:ND2	2.31	0.53
45:ME:184:PRO:O	45:ME:188:ILE:HG12	2.08	0.53
45:ME:407:TRP:HZ2	46:MF:258:ILE:HD11	1.73	0.53
46:MF:371:SER:O	46:MF:422:TYR:OH	2.23	0.53
46:ML:207:LEU:HB3	46:ML:225:LEU:HD22	1.90	0.53
45:NC:259:LEU:HD23	45:NC:268:MET:HG2	1.90	0.53
45:NG:398:MET:HE1	46:NH:346:PRO:HD2	1.91	0.53
46:NH:58:ARG:HH22	46:OH:280:GLN:HG3	1.72	0.53
46:NJ:203:ASP:OD1	46:NJ:302:ALA:N	2.31	0.53
45:NK:210:TYR:HE1	45:NK:227:LEU:HD21	1.74	0.53
45:OK:88:HIS:HB3	45:OK:91:GLN:HG2	1.91	0.53
46:ON:207:LEU:HD12	46:ON:225:LEU:HD22	1.90	0.53
46:PB:372:THR:HA	46:PB:422:TYR:HE2	1.74	0.53
46:PD:256:ASN:HD21	46:PD:350:LYS:HB2	1.73	0.53
46:PD:316:LEU:HD13	46:PD:352:SER:HB2	1.91	0.53
46:PF:418:LEU:O	46:PF:422:TYR:HB2	2.08	0.53
45:PG:247:ALA:HB3	45:PG:355:ILE:HD11	1.90	0.53
46:PH:405:GLU:OE2	46:PH:409:THR:OG1	2.27	0.53
45:PI:212:ILE:HD11	45:PI:300:ASN:HA	1.89	0.53
45:PK:70:LEU:HD13	45:PK:95:GLY:HA3	1.91	0.53
45:QK:21:TRP:CZ3	45:QK:63:PRO:HB3	2.44	0.53
46:QN:42:LEU:HA	46:QN:45:GLU:HG3	1.90	0.53
45:RE:27:GLU:HB3	45:RE:361:THR:HG21	1.89	0.53
45:SC:419:SER:O	45:SC:423:GLU:HG2	2.09	0.53
46:SD:262:ARG:HH21	46:SD:418:LEU:HD22	1.74	0.53
45:SE:362:VAL:HG12	45:SE:370:LYS:HE2	1.90	0.53
46:SF:3:GLU:OE1	46:SF:49:VAL:HA	2.09	0.53
45:SI:9:VAL:HG12	45:SI:68:LEU:HB2	1.91	0.53
46:SL:327:ASP:HA	46:SL:330:MET:HG3	1.91	0.53
45:SM:174:SER:HB2	45:SM:177:VAL:O	2.09	0.53
46:TD:226:ASN:HD21	49:TD:501:GDP:HN1	1.56	0.53
46:TJ:97:ALA:HA	46:TJ:103:LYS:HD2	1.90	0.53
45:TK:69:ASP:OD1	45:TK:70:LEU:N	2.41	0.53
46:TL:2:ARG:NH1	45:TM:71:GLU:HG2	2.22	0.53
46:TL:316:LEU:HD23	46:TL:352:SER:HB2	1.91	0.53
45:UC:340:THR:HG23	45:UC:341:ILE:HG13	1.91	0.53
46:UF:398:TYR:O	46:UF:403:MET:HB2	2.09	0.53
46:UL:290:THR:HA	46:UL:293:MET:HG2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:406:HIS:HA	45:VA:409:VAL:HG12	1.91	0.53
46:VL:64:ILE:HA	46:VL:89:ASN:HB3	1.89	0.53
46:WB:293:MET:HG2	46:WB:365:VAL:HG11	1.90	0.53
46:WD:148:GLY:O	46:WD:152:ILE:HG13	2.08	0.53
45:WE:96:LYS:HD3	46:WF:1:MET:HE3	1.91	0.53
45:WE:121:ARG:HH21	45:WE:124:LYS:HE3	1.73	0.53
45:WG:221:ARG:NH2	46:WH:322:SER:O	2.42	0.53
4:2D:81:ARG:HH12	46:EJ:356:ILE:HG23	1.74	0.53
37:5E:214:LEU:HG	45:LC:437:ILE:HD11	1.91	0.53
37:5H:93:PHE:CE2	46:KN:261:PRO:HG3	2.44	0.53
46:AF:375:GLN:HG3	46:AF:379:LYS:NZ	2.23	0.53
46:AH:6:HIS:NE2	46:AH:8:GLN:OE1	2.42	0.53
45:AM:58:ALA:O	45:BM:282:TYR:OH	2.27	0.53
46:BB:282:ARG:NH2	46:BB:292:GLN:OE1	2.36	0.53
45:BC:147:SER:HB2	45:BC:190:SER:HB2	1.91	0.53
46:BH:73:MET:HE3	46:BH:92:PHE:HB3	1.91	0.53
45:BI:28:HIS:CE1	45:BI:49:PHE:HA	2.43	0.53
46:BJ:55:THR:HG23	46:CH:283:ALA:HA	1.90	0.53
45:BM:239:THR:HG23	45:BM:243:ARG:HH12	1.74	0.53
45:CA:140:SER:OG	47:CA:501:GTP:O2B	2.27	0.53
45:CA:332:ILE:HD11	45:CA:351:PHE:CD1	2.43	0.53
46:CH:282:ARG:NH2	46:CH:292:GLN:OE1	2.39	0.53
45:CK:288:VAL:HG11	45:CK:327:ASP:HB3	1.91	0.53
45:DA:288:VAL:HA	45:DA:291:ILE:HG12	1.91	0.53
45:DG:318:MET:HB2	45:DG:376:CYS:SG	2.49	0.53
46:DH:258:ILE:HD11	45:DI:407:TRP:HZ2	1.73	0.53
46:DH:284:LEU:HD11	46:DH:362:LYS:HB2	1.91	0.53
46:DJ:226:ASN:HD21	49:DJ:501:GDP:HN1	1.57	0.53
46:DL:5:VAL:HG12	46:DL:62:ARG:HD3	1.90	0.53
46:EB:32:PRO:HA	46:EB:84:LEU:HD11	1.89	0.53
46:EL:2:ARG:NH2	45:EM:73:THR:OG1	2.41	0.53
46:EL:121:ARG:NH2	46:EL:158:GLU:OE2	2.32	0.53
46:EN:67:ASP:O	46:EN:92:PHE:HA	2.08	0.53
45:FI:9:VAL:HG12	45:FI:68:LEU:HB2	1.91	0.53
45:FI:101:ASN:HA	45:FI:144:GLY:H	1.74	0.53
45:GE:320:ARG:NH2	45:GE:358:GLN:OE1	2.42	0.53
45:GG:322:ASP:OD1	45:GG:373:ARG:NH1	2.42	0.53
46:GH:102:ALA:HB2	46:GH:403:MET:HE2	1.89	0.53
46:GH:190:HIS:CD2	46:GH:411:ALA:HA	2.43	0.53
45:HC:184:PRO:O	45:HC:188:ILE:HG12	2.09	0.53
45:HE:396:ASP:OD1	45:HE:397:LEU:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HK:164:LYS:O	45:HK:166:LYS:NZ	2.42	0.53
45:IA:5:ILE:HD11	45:IA:135:PHE:CE1	2.43	0.53
45:IA:189:LEU:HD11	45:IA:418:PHE:HE2	1.74	0.53
46:ID:222:TYR:O	46:ID:226:ASN:ND2	2.24	0.53
45:JI:141:VAL:HG22	45:JI:187:SER:HA	1.90	0.53
46:JN:67:ASP:O	46:JN:92:PHE:HA	2.09	0.53
46:JN:203:ASP:HB3	46:JN:301:CYS:HA	1.91	0.53
46:KB:222:TYR:O	46:KB:226:ASN:ND2	2.42	0.53
45:KE:184:PRO:O	45:KE:188:ILE:HG12	2.09	0.53
46:KF:238:CYS:SG	46:KF:318:ARG:HD2	2.49	0.53
46:KL:8:GLN:HE21	46:KL:65:LEU:HD21	1.73	0.53
45:KM:147:SER:HB2	45:KM:190:SER:OG	2.09	0.53
45:LA:102:ASN:OD1	45:LA:105:ARG:N	2.31	0.53
45:LE:286:LEU:O	45:LE:373:ARG:NE	2.39	0.53
45:LM:276:ILE:HG23	45:LM:280:LYS:HG3	1.90	0.53
46:MD:313:ALA:HB1	46:MD:367:PHE:HE1	1.74	0.53
45:ME:272:TYR:HB3	45:ME:275:ILE:HD11	1.91	0.53
45:ME:397:LEU:HD23	46:MF:346:PRO:HD3	1.91	0.53
45:NG:177:VAL:HG12	46:NH:331:LEU:HD13	1.91	0.53
46:NH:262:ARG:NH2	46:NH:414:ASN:OD1	2.42	0.53
45:NK:109:THR:HG22	45:NK:110:ILE:HG23	1.90	0.53
45:OE:147:SER:HB2	45:OE:190:SER:HB2	1.91	0.53
46:ON:213:ARG:HH22	46:ON:297:LYS:HB3	1.74	0.53
46:PB:67:ASP:O	46:PB:92:PHE:HA	2.09	0.53
45:PC:27:GLU:OE2	45:PC:28:HIS:ND1	2.41	0.53
45:PE:387:VAL:HA	45:PE:390:ARG:HG2	1.91	0.53
45:PG:261:PRO:HG3	46:PJ:394:PHE:HE2	1.73	0.53
46:PH:74:ASP:HA	46:PH:77:ARG:HE	1.73	0.53
45:PK:7:ILE:HB	45:PK:137:VAL:HG12	1.90	0.53
46:QD:49:VAL:HG23	46:QD:50:TYR:CD2	2.44	0.53
45:RA:229:ARG:HH12	45:RA:367:ASP:H	1.57	0.53
46:RB:162:ARG:HH22	46:RB:251:ARG:HD2	1.73	0.53
46:RB:167:PHE:CE1	46:RB:233:MET:HG2	2.43	0.53
46:RF:326:VAL:O	46:RF:330:MET:HE3	2.09	0.53
45:RK:174:SER:OG	45:RK:207:GLU:OE1	2.27	0.53
45:RM:192:HIS:ND1	45:RM:421:ALA:HA	2.24	0.53
46:SB:51:TYR:O	46:SB:62:ARG:NH2	2.40	0.53
45:SE:11:GLN:HG3	45:SE:74:VAL:HG11	1.89	0.53
46:SJ:52:ASN:OD1	46:SJ:62:ARG:NH2	2.42	0.53
45:SK:326:LYS:HD3	46:SL:220:PRO:HD2	1.91	0.53
45:SM:98:ASP:O	45:SM:105:ARG:NH1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SM:340:THR:HG23	45:SM:341:ILE:HG13	1.90	0.53
45:TC:9:VAL:HG21	45:TC:149:LEU:HB2	1.91	0.53
46:TD:213:ARG:HD2	46:TD:297:LYS:HB2	1.91	0.53
45:TE:352:LYS:NZ	46:TF:179:VAL:HG13	2.24	0.53
46:TF:202:ILE:HD11	46:TF:207:LEU:HD21	1.90	0.53
46:UD:211:CYS:HA	46:UD:215:LEU:HD12	1.91	0.53
45:UE:175:PRO:HD2	45:UE:207:GLU:OE2	2.09	0.53
46:UF:327:ASP:OD1	46:UF:328:GLU:N	2.41	0.53
45:UI:184:PRO:O	45:UI:188:ILE:HG12	2.09	0.53
45:UI:326:LYS:HZ2	46:UJ:220:PRO:HD2	1.73	0.53
45:VG:301:MET:CE	45:VG:307:PRO:HD3	2.39	0.53
45:VI:141:VAL:HG22	45:VI:187:SER:HA	1.90	0.53
45:WA:98:ASP:O	45:WA:105:ARG:NH1	2.42	0.53
46:WB:310:TYR:HB2	46:WB:341:PHE:HD1	1.74	0.53
45:WM:174:SER:HB2	45:WM:177:VAL:O	2.09	0.53
19:1J:263:PHE:CE2	45:II:281:ALA:HB3	2.43	0.53
10:1Q:36:ARG:NE	35:4S:202:ASP:O	2.30	0.53
10:1Q:37:ILE:HG13	35:4S:208:GLN:NE2	2.23	0.53
14:1V:94:GLY:HA2	46:LJ:262:ARG:HG2	1.91	0.53
31:2I:83:ARG:HH12	45:GE:299:ALA:HA	1.73	0.53
23:2O:449:GLY:HA3	46:UB:56:GLY:HA2	1.91	0.53
13:2U:449:ARG:HH12	45:VI:84:ARG:HH11	1.57	0.53
25:3R:9:PRO:HA	46:MN:227:HIS:HD2	1.74	0.53
30:4H:184:LYS:HG2	46:AL:276:ARG:HH22	1.73	0.53
37:5E:44:ARG:HD3	37:5E:45:PRO:HD2	1.90	0.53
10:5Q:81:LYS:HD2	10:5Q:129:TRP:CE2	2.44	0.53
10:6Q:61:ALA:HB1	10:6Q:69:LEU:HD13	1.91	0.53
45:BE:147:SER:HB2	45:BE:190:SER:OG	2.08	0.53
45:BE:214:ARG:HH12	45:BE:220:GLU:HG2	1.73	0.53
46:BH:105:HIS:CE1	46:BH:150:LEU:HD12	2.43	0.53
45:BM:55:GLU:HG3	45:BM:57:GLY:H	1.74	0.53
46:BN:298:ASN:ND2	46:BN:298:ASN:O	2.41	0.53
46:CD:105:HIS:CE1	46:CD:150:LEU:HD13	2.44	0.53
46:DD:86:ARG:HB3	46:DD:88:ASP:OD1	2.09	0.53
46:DJ:238:CYS:SG	46:DJ:239:CYS:N	2.82	0.53
45:DM:426:ALA:HB1	45:DM:430:LYS:NZ	2.24	0.53
46:EF:350:LYS:HZ3	46:EF:352:SER:HB2	1.74	0.53
45:EG:219:ILE:HG22	45:EG:222:PRO:HD3	1.91	0.53
46:EL:257:LEU:HD11	46:EL:314:SER:HB2	1.91	0.53
46:FB:6:HIS:HD2	46:FB:21:TRP:HE1	1.57	0.53
46:FF:166:THR:HG1	46:FF:199:CYS:HG	1.50	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FN:175:VAL:HG22	46:FN:205:GLU:HG3	1.91	0.53
45:GE:326:LYS:CD	46:GH:208:TYR:HE1	2.21	0.53
46:GJ:6:HIS:O	46:GJ:63:ALA:HA	2.09	0.53
46:HF:31:ASP:OD1	46:HF:35:THR:N	2.38	0.53
45:HI:345:ASP:OD2	45:HI:346:TRP:N	2.42	0.53
46:HJ:139:LEU:HD13	46:HJ:168:SER:HB3	1.91	0.53
46:IH:282:ARG:NH1	46:IH:292:GLN:OE1	2.39	0.53
45:II:362:VAL:HB	45:II:370:LYS:HB3	1.89	0.53
46:IL:193:VAL:HA	46:IL:264:HIS:HE1	1.74	0.53
45:JC:153:LEU:O	45:JC:157:LEU:HG	2.09	0.53
46:JH:285:THR:HB	46:JH:287:PRO:HD2	1.90	0.53
45:JM:104:ALA:HB2	45:JM:408:TYR:HD1	1.74	0.53
45:KC:298:PRO:HA	45:KC:301:MET:HG2	1.91	0.53
46:KJ:65:LEU:HB3	46:KJ:73:MET:HE2	1.91	0.53
45:LE:21:TRP:CZ3	45:LE:63:PRO:HB3	2.44	0.53
45:LI:208:ALA:O	45:LI:212:ILE:HG12	2.09	0.53
45:MG:260:VAL:HG13	45:MG:265:ILE:O	2.09	0.53
45:NG:419:SER:O	45:NG:423:GLU:HG2	2.09	0.53
45:NM:269:LEU:HB2	45:NM:301:MET:CE	2.39	0.53
45:OA:167:LEU:HD23	45:OA:200:VAL:HB	1.91	0.53
45:OA:399:TYR:OH	45:OA:415:GLU:OE2	2.25	0.53
45:OA:408:TYR:HD2	45:OA:418:PHE:HZ	1.56	0.53
46:OF:16:ILE:HD13	46:OF:226:ASN:OD1	2.09	0.53
45:OG:10:GLY:O	45:OG:14:ILE:HG12	2.09	0.53
45:OG:88:HIS:ND1	45:PG:284:GLU:OE1	2.42	0.53
46:OH:131:GLN:HE22	46:OH:163:ILE:HD11	1.73	0.53
46:OH:332:ASN:O	46:OH:336:LYS:HG3	2.09	0.53
45:OM:390:ARG:HG3	45:OM:391:LEU:HD12	1.91	0.53
46:PF:105:HIS:CE1	46:PF:150:LEU:HD13	2.44	0.53
45:PI:88:HIS:CD2	45:PI:90:GLU:HG3	2.43	0.53
45:PI:319:TYR:HB3	45:PI:323:VAL:HG11	1.90	0.53
46:PL:86:ARG:HB3	46:PL:89:ASN:HD21	1.72	0.53
45:QC:74:VAL:O	45:QC:78:VAL:HG23	2.09	0.53
45:QC:211:ASP:OD1	45:QC:214:ARG:NH2	2.28	0.53
46:QD:86:ARG:HA	46:RD:281:TYR:HE1	1.73	0.53
45:QE:391:LEU:HA	45:QE:394:LYS:HG2	1.89	0.53
45:QI:36:MET:SD	45:QI:37:PRO:HD2	2.49	0.53
45:QI:205:ASP:OD2	45:QI:303:ALA:HA	2.08	0.53
46:QJ:2:ARG:HB2	46:QJ:131:GLN:HG3	1.89	0.53
46:QJ:350:LYS:HD3	45:QK:180:ALA:HA	1.91	0.53
46:QN:289:LEU:O	46:QN:293:MET:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:372:THR:HA	46:QN:422:TYR:HE2	1.72	0.53
45:RK:129:CYS:SG	45:RK:130:THR:N	2.81	0.53
46:RL:67:ASP:OD1	46:RL:68:LEU:N	2.42	0.53
46:RN:226:ASN:HD21	49:RN:501:GDP:HN1	1.56	0.53
46:SL:334:GLN:HA	46:SL:341:PHE:CE2	2.43	0.53
45:TC:84:ARG:NH2	45:TC:85:GLN:HA	2.24	0.53
45:TG:224:TYR:O	45:TG:228:ASN:ND2	2.41	0.53
45:TI:60:LYS:NZ	45:UI:282:TYR:O	2.41	0.53
46:UH:1:MET:CE	46:UH:2:ARG:H	2.22	0.53
45:UK:156:ARG:HE	45:UK:156:ARG:HA	1.74	0.53
45:VA:326:LYS:HE2	46:VD:220:PRO:HD2	1.91	0.53
45:VE:268:MET:HG3	45:VE:380:ASN:HB2	1.89	0.53
45:VG:244:PHE:HB2	45:VG:356:ASN:HD21	1.74	0.53
46:VH:286:VAL:HG21	46:VH:325:GLU:HG3	1.90	0.53
45:VM:270:SER:O	45:VM:302:MET:HB2	2.08	0.53
46:VN:117:LEU:O	46:VN:121:ARG:HG3	2.09	0.53
45:WA:244:PHE:HB2	45:WA:356:ASN:HD21	1.73	0.53
46:WB:266:PHE:CE2	46:WB:370:ASN:HB2	2.44	0.53
45:WE:167:LEU:HG	45:WE:200:VAL:HB	1.90	0.53
45:DC:288:VAL:HG21	45:DC:327:ASP:HB3	1.90	0.53
11:OS:312:THR:O	45:AA:402:ARG:NH2	2.41	0.52
1:1A:61:TYR:OH	46:MF:53:GLU:OE1	2.27	0.52
4:1D:20:LYS:HZ2	46:CF:53:GLU:HB3	1.73	0.52
7:1G:87:PHE:O	46:JB:276:ARG:NH2	2.29	0.52
4:2D:95:GLN:HE22	45:EK:364:PRO:HB2	1.72	0.52
30:2H:200:TYR:CD2	45:AC:77:GLU:HG3	2.44	0.52
35:4S:65:PHE:CE2	35:4S:120:ALA:HB2	2.44	0.52
36:5B:138:ARG:HH22	46:NH:359:LYS:NZ	2.06	0.52
36:5D:87:ARG:NH1	45:NM:364:PRO:HG2	2.24	0.52
37:5G:209:ARG:HD3	37:5G:209:ARG:H	1.73	0.52
37:5H:67:ARG:NH1	37:5H:70:GLU:OE1	2.42	0.52
35:5S:152:THR:O	35:5S:153:LYS:HG3	2.09	0.52
43:8P:318:UNK:C	46:QB:276:ARG:HH22	2.22	0.52
45:AC:226:ASN:ND2	45:AC:367:ASP:OD2	2.39	0.52
46:AD:150:LEU:O	46:AD:154:LYS:HG2	2.08	0.52
45:AG:208:ALA:O	45:AG:212:ILE:HG12	2.08	0.52
46:AJ:292:GLN:HG2	46:AJ:298:ASN:ND2	2.24	0.52
45:AK:90:GLU:OE1	45:AK:121:ARG:NH2	2.43	0.52
45:BA:132:LEU:HD22	45:BA:164:LYS:HG2	1.91	0.52
46:BB:303:ALA:HB2	46:BB:377:MET:HE1	1.91	0.52
45:BE:224:TYR:HE1	47:BE:501:GTP:C5	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:238:CYS:SG	46:BF:239:CYS:N	2.83	0.52
45:BG:268:MET:HG3	45:BG:380:ASN:HB2	1.89	0.52
46:BH:174:LYS:N	46:BH:174:LYS:HD3	2.24	0.52
45:CA:241:SER:OG	45:CA:250:VAL:O	2.22	0.52
45:CG:206:ASN:OD1	45:CG:207:GLU:N	2.42	0.52
46:DB:86:ARG:HG3	46:DB:87:PRO:HD2	1.90	0.52
46:DJ:327:ASP:HB3	45:DK:177:VAL:HG13	1.91	0.52
46:DL:19:LYS:HZ2	46:DL:227:HIS:HA	1.74	0.52
46:DL:334:GLN:HA	46:DL:341:PHE:HE1	1.74	0.52
46:EB:162:ARG:HA	46:EB:251:ARG:HH22	1.74	0.52
46:ED:45:GLU:OE1	46:ED:46:ARG:HG2	2.09	0.52
46:EH:258:ILE:HD11	45:EI:407:TRP:HZ2	1.73	0.52
45:EI:118:CYS:O	45:EI:122:ILE:HG12	2.08	0.52
46:EL:371:SER:O	46:EL:422:TYR:OH	2.23	0.52
46:EN:278:SER:HA	46:EN:281:TYR:HB2	1.91	0.52
45:FC:292:THR:HG21	45:FC:331:SER:HB3	1.91	0.52
45:FK:115:VAL:HG23	45:FK:153:LEU:HD23	1.91	0.52
45:FM:140:SER:OG	47:FM:501:GTP:O2B	2.27	0.52
45:GA:88:HIS:HB3	45:GA:91:GLN:HG3	1.91	0.52
45:GE:226:ASN:ND2	45:GE:367:ASP:OD2	2.42	0.52
45:GE:259:LEU:HD21	45:GE:316:SER:HB3	1.91	0.52
45:GE:326:LYS:HZ2	46:GH:208:TYR:HE1	1.56	0.52
46:GL:372:THR:HA	46:GL:422:TYR:CE2	2.44	0.52
45:HA:66:VAL:HG23	45:HA:91:GLN:HB2	1.90	0.52
45:HA:245:ASP:OD1	45:HA:246:GLY:N	2.42	0.52
45:HI:329:ASN:HD21	46:HL:175:VAL:HG12	1.73	0.52
45:HK:105:ARG:HD2	46:HL:251:ARG:HH21	1.74	0.52
46:HL:309:ARG:NH2	46:HL:426:GLN:O	2.37	0.52
45:IA:308:ARG:HH11	45:IA:308:ARG:HA	1.74	0.52
45:IC:118:CYS:O	45:IC:122:ILE:HG12	2.08	0.52
45:IE:356:ASN:OD1	45:IE:357:TYR:N	2.41	0.52
46:IJ:258:ILE:HD12	46:IJ:264:HIS:HB3	1.90	0.52
45:IM:88:HIS:CD2	45:IM:91:GLN:HG3	2.44	0.52
45:JG:175:PRO:HG3	45:JG:390:ARG:NH1	2.25	0.52
45:JG:288:VAL:HG11	45:JG:327:ASP:HB3	1.91	0.52
45:LA:181:VAL:HG23	45:LA:182:VAL:HG13	1.91	0.52
46:LD:31:ASP:OD2	46:LD:37:HIS:ND1	2.41	0.52
45:LE:241:SER:OG	45:LE:250:VAL:O	2.20	0.52
45:LE:242:LEU:HD11	45:LE:252:ILE:HD11	1.90	0.52
46:LL:309:ARG:NH1	46:LL:426:GLN:O	2.42	0.52
46:LL:318:ARG:NE	46:LL:356:ILE:O	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LM:271:SER:HB3	45:LM:377:MET:HB3	1.90	0.52
45:MC:398:MET:SD	46:MD:345:ILE:HD12	2.49	0.52
45:MG:147:SER:HB2	45:MG:190:SER:OG	2.08	0.52
45:MK:174:SER:HB3	45:MK:177:VAL:O	2.08	0.52
46:ML:318:ARG:HH11	46:ML:358:PRO:HG3	1.74	0.52
45:MM:68:LEU:HD13	45:MM:93:ILE:HB	1.90	0.52
45:NA:210:TYR:CD2	46:NB:324:LYS:HD3	2.44	0.52
45:NE:118:CYS:O	45:NE:122:ILE:HG12	2.09	0.52
46:NF:116:VAL:HA	46:NF:119:VAL:HG12	1.91	0.52
45:NG:2:ARG:HB2	45:NG:133:GLN:HE22	1.74	0.52
45:NI:89:PRO:HG2	45:OI:280:LYS:HZ2	1.74	0.52
45:NK:181:VAL:HG13	45:NK:182:VAL:HG13	1.92	0.52
45:OE:323:VAL:HG22	45:OE:373:ARG:HG2	1.91	0.52
46:OF:19:LYS:NZ	46:OF:22:GLU:HG3	2.23	0.52
46:OF:156:ARG:NH1	46:OF:195:ASN:O	2.42	0.52
46:OF:200:MET:SD	46:OF:266:PHE:HB2	2.48	0.52
45:OG:60:LYS:NZ	45:OG:86:LEU:O	2.32	0.52
45:OI:178:SER:HB2	46:OJ:347:ASN:ND2	2.24	0.52
45:PK:120:ASP:HB3	45:PK:124:LYS:NZ	2.25	0.52
46:PL:260:PHE:HB2	46:PL:263:LEU:HD13	1.90	0.52
45:PM:427:ALA:HA	45:PM:430:LYS:HG2	1.91	0.52
46:QB:27:GLU:OE2	46:QB:241:ARG:NH1	2.41	0.52
45:QE:332:ILE:HA	45:QE:335:ILE:HG12	1.90	0.52
46:QJ:217:LEU:HD23	46:QJ:219:THR:H	1.74	0.52
46:QL:86:ARG:HD3	46:RL:282:ARG:HH12	1.73	0.52
45:QM:34:GLY:O	45:QM:60:LYS:HG2	2.08	0.52
45:QM:47:ASP:OD1	45:QM:48:ALA:N	2.35	0.52
45:RA:254:GLU:OE2	46:RB:99:ASN:ND2	2.42	0.52
46:RF:344:TRP:HB3	46:RF:430:ALA:HB2	1.91	0.52
45:RG:262:TYR:HB2	45:RG:265:ILE:HG12	1.90	0.52
45:RG:265:ILE:HG22	45:RG:432:TYR:CE1	2.44	0.52
45:SE:72:PRO:HA	45:SE:75:ILE:HG22	1.89	0.52
46:SF:111:GLU:N	46:SF:111:GLU:OE1	2.42	0.52
46:SJ:258:ILE:HD11	45:SK:407:TRP:CZ2	2.42	0.52
45:SK:30:ILE:HD11	45:SK:34:GLY:C	2.30	0.52
45:SK:204:LEU:HD23	45:SK:302:MET:HE1	1.91	0.52
45:SM:75:ILE:HD12	45:SM:75:ILE:H	1.74	0.52
45:TC:101:ASN:HA	45:TC:144:GLY:H	1.75	0.52
45:TC:171:ILE:HG13	45:TC:171:ILE:O	2.08	0.52
45:TG:188:ILE:HD12	45:TG:425:LEU:HD11	1.90	0.52
45:UC:319:TYR:HB3	45:UC:323:VAL:HG11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UH:73:MET:HA	46:UH:76:VAL:HG12	1.91	0.52
46:UH:344:TRP:CD2	45:UI:401:LYS:HE3	2.45	0.52
45:UI:339:ARG:O	45:UI:342:GLN:NE2	2.42	0.52
46:UJ:350:LYS:HE2	45:UK:181:VAL:HG13	1.91	0.52
45:UK:3:GLU:OE2	45:UK:131:GLY:N	2.42	0.52
45:UK:90:GLU:O	45:UK:121:ARG:NH1	2.42	0.52
45:UM:10:GLY:O	45:UM:14:ILE:HG12	2.09	0.52
45:VC:107:HIS:HA	45:VC:152:LEU:HD11	1.90	0.52
45:VE:222:PRO:O	46:VF:324:LYS:HD3	2.09	0.52
45:VG:96:LYS:HE2	46:VH:1:MET:SD	2.48	0.52
46:VH:128:ASP:OD1	46:VH:129:CYS:N	2.42	0.52
45:VK:49:PHE:O	45:VK:53:PHE:N	2.37	0.52
46:VL:163:ILE:HG13	46:VL:251:ARG:HH21	1.72	0.52
46:VN:31:ASP:OD1	46:VN:35:THR:N	2.36	0.52
46:VN:68:LEU:HG	46:VN:96:GLY:H	1.74	0.52
45:WE:349:THR:HG21	46:WH:181:GLU:OE2	2.09	0.52
45:WG:331:SER:O	45:WG:335:ILE:HG12	2.09	0.52
45:WI:145:THR:HG22	47:WI:501:GTP:PG	2.49	0.52
46:WL:65:LEU:HD11	46:WL:85:PHE:CD2	2.43	0.52
45:WM:407:TRP:HE1	46:WN:255:VAL:HG22	1.73	0.52
46:WN:16:ILE:HA	46:WN:226:ASN:HD22	1.74	0.52
46:WN:254:ALA:O	46:WN:258:ILE:HG22	2.10	0.52
45:DC:230:LEU:O	45:DC:234:VAL:HG23	2.09	0.52
19:1J:262:VAL:HB	45:II:370:LYS:HZ2	1.73	0.52
43:8P:269:UNK:C	46:QD:276:ARG:HH22	2.23	0.52
45:AA:135:PHE:HB2	45:AA:166:LYS:HG3	1.92	0.52
45:AM:386:GLU:O	45:AM:390:ARG:HG3	2.09	0.52
45:BE:101:ASN:HD22	45:BE:143:GLY:HA2	1.73	0.52
45:BE:294:SER:HA	45:BE:297:GLU:HG3	1.90	0.52
46:BH:362:LYS:HE2	46:BH:362:LYS:HA	1.91	0.52
46:DH:8:GLN:HE21	46:DH:65:LEU:HD22	1.74	0.52
46:DL:7:ILE:HG13	46:DL:64:ILE:HD13	1.91	0.52
45:EA:268:MET:HB2	45:EA:379:SER:O	2.08	0.52
45:EC:209:ILE:CG2	45:EC:302:MET:HB2	2.38	0.52
45:EE:133:GLN:HG3	45:EE:242:LEU:HD11	1.90	0.52
46:EL:1:MET:SD	46:EL:2:ARG:HG2	2.49	0.52
46:EL:238:CYS:SG	46:EL:239:CYS:N	2.82	0.52
45:EM:55:GLU:OE1	45:EM:61:HIS:NE2	2.42	0.52
45:EM:155:GLU:HA	45:EM:197:HIS:CE1	2.44	0.52
46:FN:12:CYS:HA	46:FN:15:GLN:HE21	1.74	0.52
46:FN:24:ILE:HD12	46:FN:241:ARG:HH12	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:217:LEU:HB3	45:GA:219:ILE:HG13	1.91	0.52
45:GC:93:ILE:HD11	45:GC:121:ARG:HG3	1.89	0.52
46:GF:213:ARG:HH11	46:GF:216:LYS:HZ3	1.58	0.52
45:GG:184:PRO:O	45:GG:188:ILE:HG12	2.09	0.52
45:GG:387:VAL:HG12	45:GG:390:ARG:NH2	2.23	0.52
45:GI:11:GLN:HG3	45:GI:74:VAL:HG11	1.90	0.52
46:GJ:55:THR:HG23	46:HJ:283:ALA:HA	1.91	0.52
45:HA:174:SER:HB2	45:HA:177:VAL:HB	1.91	0.52
46:HD:406:MET:O	46:HD:410:GLU:HG2	2.09	0.52
46:HL:68:LEU:HB3	46:HL:96:GLY:HA2	1.90	0.52
45:HM:271:SER:HA	45:HM:302:MET:HG2	1.91	0.52
45:IE:272:TYR:HD1	45:IE:275:ILE:HD11	1.74	0.52
45:IK:419:SER:O	45:IK:423:GLU:HG2	2.09	0.52
46:IL:190:HIS:ND1	46:IL:191:GLN:OE1	2.36	0.52
46:IL:295:ASP:OD1	46:IL:297:LYS:HG2	2.09	0.52
46:JB:206:ALA:O	46:JB:210:ILE:HG12	2.09	0.52
45:JC:223:THR:HG23	45:JC:225:THR:H	1.74	0.52
45:KC:172:TYR:OH	45:KC:191:THR:OG1	2.22	0.52
45:KE:17:GLY:HA2	45:KE:20:CYS:SG	2.50	0.52
45:KK:79:ARG:O	45:KK:84:ARG:HG2	2.10	0.52
45:KK:271:SER:HB3	45:KK:377:MET:HB3	1.91	0.52
46:KN:113:ILE:HD13	46:KN:150:LEU:HD22	1.89	0.52
46:KN:423:GLN:OE1	46:KN:426:GLN:NE2	2.42	0.52
45:LA:346:TRP:CD1	46:LD:391:ARG:HG3	2.44	0.52
46:LB:26:ASP:O	46:LB:359:LYS:NZ	2.36	0.52
46:LB:156:ARG:HD3	46:LB:164:MET:HG3	1.91	0.52
45:LE:188:ILE:HD11	45:LE:391:LEU:HB3	1.91	0.52
45:LK:177:VAL:HA	46:LL:331:LEU:HD21	1.92	0.52
45:LK:254:GLU:HG2	46:LN:98:GLY:HA2	1.91	0.52
46:LL:171:PRO:HB2	46:LL:181:GLU:OE2	2.09	0.52
46:LN:91:VAL:HG21	46:LN:116:VAL:HB	1.90	0.52
45:MA:171:ILE:HG13	45:MA:204:LEU:HB2	1.90	0.52
46:MB:113:ILE:HA	46:MB:116:VAL:HG12	1.90	0.52
46:MF:91:VAL:HG21	46:MF:116:VAL:HB	1.91	0.52
45:MG:221:ARG:NH1	46:MH:325:GLU:OE1	2.38	0.52
46:NL:225:LEU:O	46:NL:229:VAL:HG23	2.08	0.52
46:OH:130:LEU:HD21	46:OH:133:PHE:CE1	2.44	0.52
45:OI:8:HIS:CD2	45:OI:17:GLY:HA3	2.43	0.52
45:OK:320:ARG:CZ	45:OK:360:PRO:HA	2.38	0.52
45:OM:141:VAL:HG22	45:OM:187:SER:HA	1.90	0.52
46:PD:97:ALA:HA	46:PD:103:LYS:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PK:141:VAL:HG11	45:PK:172:TYR:HD1	1.73	0.52
46:QH:46:ARG:NH2	45:QI:76:ASP:OD2	2.39	0.52
45:QI:239:THR:HG23	45:QI:243:ARG:HE	1.73	0.52
45:QI:319:TYR:HB3	45:QI:323:VAL:HG11	1.91	0.52
45:RG:209:ILE:HD12	45:RG:227:LEU:HB3	1.91	0.52
46:RL:153:SER:HB2	46:RL:191:GLN:NE2	2.23	0.52
46:RL:255:VAL:HG21	45:RM:100:ALA:O	2.09	0.52
46:RL:320:ARG:NH1	46:RL:355:ASP:O	2.39	0.52
46:SB:324:LYS:HD2	45:SC:222:PRO:HG2	1.91	0.52
45:SC:102:ASN:HB3	45:SC:105:ARG:HG3	1.90	0.52
45:SE:102:ASN:ND2	45:SE:105:ARG:HG3	2.24	0.52
46:SF:257:LEU:HD21	46:SF:314:SER:HB3	1.92	0.52
45:SG:69:ASP:OD1	45:SG:70:LEU:N	2.42	0.52
46:SH:148:GLY:O	46:SH:152:ILE:HD12	2.09	0.52
45:SK:79:ARG:C	45:SK:84:ARG:HG2	2.30	0.52
45:SM:97:GLU:HG2	45:SM:105:ARG:HH22	1.73	0.52
45:SM:231:ILE:O	45:SM:235:ILE:HD12	2.08	0.52
45:TG:332:ILE:HD12	45:TG:351:PHE:CD2	2.44	0.52
46:TL:116:VAL:O	46:TL:120:VAL:HG23	2.09	0.52
45:UC:79:ARG:NH2	45:UC:89:PRO:O	2.41	0.52
45:UG:260:VAL:HB	46:UH:397:TRP:HZ2	1.75	0.52
45:UM:70:LEU:HD13	45:UM:95:GLY:HA3	1.90	0.52
45:UM:121:ARG:NE	45:UM:124:LYS:HE3	2.25	0.52
46:UN:178:THR:O	46:UN:181:GLU:HG2	2.10	0.52
45:VA:88:HIS:HD2	45:VA:90:GLU:HG3	1.74	0.52
45:VK:336:LYS:O	45:VK:339:ARG:NH2	2.42	0.52
46:WB:376:GLU:OE2	46:WB:380:ARG:NE	2.42	0.52
46:WF:189:VAL:HG22	46:WF:415:MET:HE1	1.91	0.52
45:WI:329:ASN:HA	45:WI:332:ILE:HG12	1.90	0.52
46:WJ:86:ARG:HG3	46:WJ:88:ASP:OD1	2.09	0.52
45:WK:107:HIS:HA	45:WK:152:LEU:HD11	1.90	0.52
45:WK:326:LYS:HD2	45:WK:326:LYS:N	2.24	0.52
46:WN:239:CYS:SG	46:WN:247:ASN:HA	2.49	0.52
1:0A:35:TYR:H	46:MB:320:ARG:NH2	2.05	0.52
1:0A:36:ARG:HE	45:MA:77:GLU:HG2	1.75	0.52
9:2N:15:ARG:HG2	46:IB:45:GLU:OE2	2.09	0.52
23:2O:368:GLU:HG3	45:VC:370:LYS:HZ3	1.74	0.52
14:2V:142:ILE:HD11	45:LG:402:ARG:HE	1.73	0.52
26:2W:266:LEU:HD21	45:LK:370:LYS:H	1.72	0.52
23:3O:271:ALA:HB1	45:UM:278:ALA:HB1	1.91	0.52
33:4F:141:ARG:CZ	45:IK:357:TYR:HB2	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:469:LYS:HZ2	34:4R:472:GLU:HA	1.75	0.52
37:5H:78:LEU:HA	37:5H:81:MET:SD	2.49	0.52
37:5H:113:LEU:HD22	45:NM:84:ARG:HD3	1.91	0.52
10:5Q:92:GLN:O	10:5Q:152:LEU:N	2.41	0.52
39:6F:130:SER:O	46:IH:359:LYS:NZ	2.39	0.52
10:6Q:1:MET:O	10:6Q:3:LYS:NZ	2.39	0.52
10:6Q:104:ARG:HH12	10:6Q:157:HIS:CD2	2.27	0.52
45:AI:328:VAL:O	45:AI:332:ILE:HG12	2.10	0.52
46:AJ:268:ILE:HG13	46:AJ:300:MET:HG3	1.89	0.52
45:AM:358:GLN:NE2	45:AM:359:PRO:O	2.42	0.52
46:AN:83:GLN:O	46:AN:86:ARG:NH2	2.38	0.52
45:BA:242:LEU:HD11	45:BA:252:ILE:HG23	1.91	0.52
45:BE:275:ILE:HA	45:BE:368:LEU:HD11	1.91	0.52
46:BJ:18:ALA:O	46:BJ:22:GLU:HG3	2.09	0.52
45:BK:150:GLY:O	45:BK:154:LEU:HD23	2.09	0.52
45:BM:216:ASN:HB3	45:BM:275:ILE:O	2.10	0.52
46:CB:381:VAL:HA	46:CB:384:GLN:HG2	1.91	0.52
46:CF:12:CYS:O	46:CF:16:ILE:HG12	2.10	0.52
45:CG:55:GLU:HG3	45:CG:57:GLY:H	1.74	0.52
46:CH:209:ASP:OD1	46:CH:213:ARG:HD3	2.08	0.52
45:CI:206:ASN:OD1	47:CI:501:GTP:N2	2.41	0.52
46:CL:325:GLU:OE1	45:CM:221:ARG:NH1	2.42	0.52
45:CM:174:SER:HB2	45:CM:177:VAL:O	2.10	0.52
45:CM:207:GLU:HA	45:CM:210:TYR:CG	2.44	0.52
45:DA:36:MET:HB3	45:DA:61:HIS:CE1	2.44	0.52
46:DB:97:ALA:HA	46:DB:103:LYS:HG2	1.91	0.52
46:DD:334:GLN:HA	46:DD:341:PHE:HE2	1.73	0.52
45:DE:174:SER:HB3	45:DE:177:VAL:O	2.10	0.52
46:DF:332:ASN:OD1	46:DF:336:LYS:HD2	2.10	0.52
45:DI:74:VAL:HG23	45:DI:75:ILE:HD12	1.92	0.52
45:DM:231:ILE:O	45:DM:235:ILE:HG12	2.10	0.52
46:EB:318:ARG:HB3	46:EB:357:PRO:HA	1.90	0.52
45:FA:231:ILE:O	45:FA:235:ILE:HG12	2.09	0.52
45:FI:101:ASN:HD22	46:FJ:252:LYS:HD2	1.74	0.52
46:FL:97:ALA:HA	46:FL:103:LYS:HD2	1.91	0.52
46:FN:260:PHE:HB2	46:FN:263:LEU:HD13	1.89	0.52
46:GB:260:PHE:HB2	46:GB:263:LEU:HD13	1.92	0.52
46:GF:148:GLY:O	46:GF:152:ILE:HG12	2.09	0.52
45:GK:155:GLU:HA	45:GK:197:HIS:CE1	2.44	0.52
46:HD:2:ARG:HB2	46:HD:131:GLN:NE2	2.25	0.52
46:HD:179:VAL:HG23	46:HD:180:VAL:HG23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IB:282:ARG:NH2	46:IB:292:GLN:OE1	2.33	0.52
45:IE:324:VAL:HG11	45:IE:326:LYS:NZ	2.24	0.52
46:IF:273:LEU:H	46:IF:292:GLN:NE2	2.04	0.52
46:IH:148:GLY:O	46:IH:152:ILE:HG12	2.09	0.52
45:IM:392:ASP:OD1	45:IM:422:ARG:NE	2.41	0.52
45:JA:259:LEU:HD21	45:JA:316:SER:HB3	1.91	0.52
45:JA:387:VAL:HA	45:JA:390:ARG:HG2	1.91	0.52
45:JC:286:LEU:N	45:JC:290:GLU:OE1	2.42	0.52
46:JD:290:THR:HA	46:JD:293:MET:HG3	1.90	0.52
45:JE:335:ILE:O	45:JE:338:LYS:HG2	2.09	0.52
45:JI:17:GLY:HA2	45:JI:20:CYS:SG	2.49	0.52
46:JJ:213:ARG:NH2	46:JJ:297:LYS:HB3	2.24	0.52
46:KB:150:LEU:O	46:KB:154:LYS:HG2	2.10	0.52
45:KI:325:PRO:HA	45:KI:328:VAL:HG22	1.91	0.52
45:KM:136:LEU:HD23	45:KM:167:LEU:HB2	1.91	0.52
46:KN:207:LEU:HB3	46:KN:225:LEU:HD22	1.91	0.52
45:LA:288:VAL:HA	45:LA:291:ILE:HG12	1.90	0.52
46:LD:380:ARG:O	46:LD:383:GLU:HG3	2.08	0.52
46:LH:73:MET:CE	46:LH:90:PHE:HB3	2.39	0.52
45:MA:11:GLN:NE2	46:MB:245:GLN:O	2.42	0.52
46:MB:207:LEU:HB3	46:MB:225:LEU:HD22	1.91	0.52
45:MI:427:ALA:O	45:MI:430:LYS:HB3	2.10	0.52
46:MN:200:MET:HG3	46:MN:266:PHE:HB2	1.91	0.52
45:NC:88:HIS:HD2	45:NC:90:GLU:HG3	1.74	0.52
45:OA:27:GLU:HG2	45:OA:361:THR:HG21	1.91	0.52
45:OA:31:GLN:NE2	45:OA:35:GLN:O	2.42	0.52
45:OA:256:GLN:HG2	46:OD:397:TRP:CH2	2.40	0.52
45:OC:121:ARG:CZ	45:OC:124:LYS:HD2	2.40	0.52
46:OL:186:THR:HA	46:OL:189:VAL:HG12	1.91	0.52
45:OM:328:VAL:HG11	45:OM:353:VAL:HG21	1.91	0.52
45:PC:2:ARG:NH2	45:PC:242:LEU:O	2.43	0.52
46:PD:2:ARG:HB2	46:PD:131:GLN:HE21	1.74	0.52
45:PE:210:TYR:HD1	46:PF:324:LYS:HG3	1.74	0.52
46:PF:272:PRO:HB2	46:PF:282:ARG:HH22	1.73	0.52
45:PG:276:ILE:HD11	45:PG:280:LYS:HG3	1.91	0.52
45:PG:298:PRO:HA	45:PG:301:MET:HE1	1.91	0.52
45:PI:384:ILE:O	45:PI:387:VAL:HG22	2.10	0.52
45:PM:90:GLU:HG3	45:PM:121:ARG:HH22	1.74	0.52
46:QB:150:LEU:HB2	46:QB:154:LYS:NZ	2.24	0.52
46:QL:273:LEU:N	46:QL:292:GLN:HE22	2.02	0.52
46:QN:67:ASP:O	46:QN:92:PHE:HA	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RE:296:PHE:CE2	45:RE:335:ILE:HD12	2.43	0.52
46:RF:287:PRO:HA	46:RF:329:GLN:NE2	2.24	0.52
46:RH:221:THR:HG23	46:RH:224:ASP:H	1.75	0.52
46:RJ:183:TYR:HD1	46:RJ:385:PHE:CE1	2.27	0.52
46:RL:153:SER:HB2	46:RL:191:GLN:HE22	1.75	0.52
46:RN:86:ARG:NH1	46:SN:278:SER:HA	2.25	0.52
46:SB:117:LEU:HD12	46:SB:154:LYS:HE2	1.91	0.52
46:SD:54:ALA:HA	46:TD:283:ALA:HB2	1.90	0.52
46:SJ:289:LEU:HD13	46:SJ:365:VAL:HG23	1.91	0.52
46:SL:200:MET:CE	46:SL:266:PHE:HB2	2.39	0.52
45:SM:91:GLN:HB3	45:SM:121:ARG:CZ	2.40	0.52
45:TG:56:THR:HG23	45:TG:58:ALA:H	1.74	0.52
46:TH:138:SER:HA	46:TH:169:VAL:HB	1.92	0.52
45:TI:101:ASN:HA	45:TI:144:GLY:H	1.75	0.52
45:TM:11:GLN:H	47:TM:501:GTP:PB	2.32	0.52
45:UA:340:THR:HG23	45:UA:341:ILE:HG13	1.91	0.52
46:UB:22:GLU:HG2	46:UB:81:PHE:HB2	1.92	0.52
46:UD:254:ALA:O	46:UD:258:ILE:HG22	2.09	0.52
45:UE:227:LEU:O	45:UE:231:ILE:HG12	2.10	0.52
45:UE:287:SER:O	45:UE:290:GLU:HG2	2.10	0.52
46:UJ:148:GLY:O	46:UJ:152:ILE:HG12	2.08	0.52
46:VB:44:LEU:HA	46:VB:47:ILE:HG23	1.91	0.52
45:VC:222:PRO:O	46:VD:324:LYS:HD3	2.09	0.52
46:VD:77:ARG:NH2	46:VD:83:GLN:OE1	2.42	0.52
46:VD:217:LEU:HB2	46:VD:220:PRO:HG3	1.91	0.52
45:VE:90:GLU:OE2	45:VE:121:ARG:NH1	2.42	0.52
45:VI:346:TRP:CD1	46:VL:391:ARG:HG3	2.44	0.52
46:VL:55:THR:HG23	46:WL:283:ALA:HA	1.91	0.52
46:WB:376:GLU:HA	46:WB:379:LYS:HE2	1.92	0.52
46:WJ:167:PHE:CZ	46:WJ:200:MET:HG3	2.45	0.52
45:WK:311:LYS:HD2	45:WK:343:PHE:C	2.30	0.52
46:WN:290:THR:HA	46:WN:293:MET:HG3	1.91	0.52
46:WN:309:ARG:N	46:WN:372:THR:OG1	2.38	0.52
1:1A:131:ILE:HD13	46:AF:39:ASP:HB3	1.90	0.52
14:1V:122:LYS:HD3	46:LL:390:ARG:NH1	2.25	0.52
14:1V:133:TYR:CD2	46:LL:421:GLU:HA	2.43	0.52
36:5D:108:ARG:NH2	45:KM:396:ASP:OD2	2.39	0.52
40:6G:84:VAL:HB	40:6G:85:PRO:HD2	1.89	0.52
10:6Q:20:LYS:NZ	10:6Q:22:LEU:H	2.07	0.52
34:6R:389:ASN:OD1	34:6R:390:GLY:N	2.43	0.52
46:BB:178:THR:HB	46:BB:181:GLU:HG3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BE:36:MET:HG3	45:BE:37:PRO:HD2	1.91	0.52
45:BE:339:ARG:O	45:BE:342:GLN:NE2	2.42	0.52
46:BF:344:TRP:CE3	46:BF:345:ILE:HG23	2.45	0.52
46:BJ:102:ALA:HB1	46:BJ:401:GLU:OE2	2.10	0.52
46:BL:167:PHE:CE1	46:BL:233:MET:HG2	2.45	0.52
46:BN:86:ARG:HE	46:BN:87:PRO:CD	2.18	0.52
45:CC:120:ASP:OD2	45:CC:121:ARG:NH2	2.41	0.52
45:CC:384:ILE:O	45:CC:387:VAL:HG12	2.09	0.52
46:CH:268:ILE:HG22	46:CH:368:VAL:HG22	1.90	0.52
45:CI:258:ASN:ND2	45:CI:352:LYS:HE3	2.24	0.52
46:CL:175:VAL:HG22	46:CL:205:GLU:HB3	1.90	0.52
46:DF:260:PHE:HB2	46:DF:263:LEU:HD13	1.91	0.52
45:EE:88:HIS:CD2	45:EE:89:PRO:HD2	2.45	0.52
45:EI:188:ILE:HD12	45:EI:425:LEU:HD11	1.91	0.52
45:EI:212:ILE:HD11	45:EI:300:ASN:HA	1.91	0.52
46:EJ:257:LEU:HD12	46:EJ:312:THR:HG23	1.91	0.52
46:EJ:318:ARG:HD3	46:EJ:358:PRO:HD3	1.91	0.52
45:EM:109:THR:HG22	45:EM:110:ILE:HG23	1.90	0.52
46:EN:54:ALA:HA	46:FN:283:ALA:HB2	1.92	0.52
45:FA:24:PHE:CZ	45:FA:52:PHE:HE2	2.27	0.52
45:FA:55:GLU:HG3	45:FA:57:GLY:H	1.74	0.52
45:FE:326:LYS:HD3	46:FH:219:THR:HG23	1.90	0.52
45:FG:71:GLU:OE2	45:FG:73:THR:OG1	2.28	0.52
45:FI:288:VAL:HB	45:FI:373:ARG:HH22	1.74	0.52
46:FJ:44:LEU:HA	46:FJ:47:ILE:HG12	1.91	0.52
45:GG:285:GLN:HE22	45:GG:287:SER:HB2	1.74	0.52
46:GL:116:VAL:O	46:GL:120:VAL:HG23	2.10	0.52
45:HC:268:MET:HB2	45:HC:379:SER:O	2.10	0.52
46:HD:86:ARG:HB3	46:HD:89:ASN:OD1	2.08	0.52
46:HF:378:PHE:HA	46:HF:381:VAL:HG22	1.90	0.52
46:HF:407:GLU:OE1	46:HF:407:GLU:N	2.35	0.52
46:HJ:318:ARG:HH11	46:HJ:358:PRO:HG3	1.75	0.52
45:HK:184:PRO:O	45:HK:188:ILE:HG12	2.09	0.52
46:HL:313:ALA:HB1	46:HL:367:PHE:HE1	1.74	0.52
46:IB:198:GLU:HG2	46:IB:266:PHE:HE2	1.75	0.52
46:ID:164:MET:HE3	46:ID:196:ALA:HA	1.91	0.52
46:IH:309:ARG:NH2	46:IH:426:GLN:O	2.35	0.52
46:IJ:280:GLN:OE1	46:IJ:280:GLN:N	2.42	0.52
46:JD:8:GLN:OE1	46:JD:17:GLY:HA3	2.09	0.52
46:JF:8:GLN:HE21	46:JF:14:ASN:HA	1.75	0.52
46:JF:55:THR:HG23	46:KF:283:ALA:HA	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JG:117:LEU:HB3	45:JG:121:ARG:HH12	1.74	0.52
45:JI:119:LEU:HD11	45:JI:156:ARG:HB3	1.92	0.52
45:JI:147:SER:HB2	45:JI:190:SER:HB2	1.92	0.52
45:KC:88:HIS:NE2	45:LC:284:GLU:OE2	2.40	0.52
45:LA:171:ILE:O	45:LA:171:ILE:HG13	2.10	0.52
45:LG:265:ILE:HG22	45:LG:380:ASN:HD21	1.74	0.52
45:LI:259:LEU:HD21	45:LI:268:MET:HG2	1.92	0.52
46:MH:262:ARG:NH1	46:MH:421:GLU:OE1	2.43	0.52
46:MJ:133:PHE:HB2	46:MJ:164:MET:SD	2.49	0.52
45:NA:88:HIS:CE1	45:NA:90:GLU:HB2	2.44	0.52
46:NB:179:VAL:HG13	46:NB:180:VAL:HG13	1.90	0.52
46:NB:312:THR:HG22	46:NB:370:ASN:HB3	1.91	0.52
45:NC:141:VAL:HG22	45:NC:187:SER:HA	1.91	0.52
45:NG:325:PRO:HB2	46:NJ:208:TYR:OH	2.10	0.52
45:NI:192:HIS:CE1	45:NI:424:ASP:OD2	2.62	0.52
45:NI:419:SER:O	45:NI:423:GLU:HG2	2.10	0.52
46:NJ:4:ILE:HG13	46:NJ:132:GLY:O	2.10	0.52
46:NN:135:ILE:HD12	46:NN:152:ILE:HD11	1.90	0.52
46:OF:178:THR:O	46:OF:181:GLU:HG2	2.09	0.52
45:OG:175:PRO:HG2	45:OG:304:LYS:HD2	1.91	0.52
46:OJ:203:ASP:OD2	46:OJ:302:ALA:N	2.38	0.52
45:OM:210:TYR:CE1	46:ON:324:LYS:HB3	2.44	0.52
46:PB:334:GLN:HA	46:PB:341:PHE:CE2	2.45	0.52
45:PG:181:VAL:N	46:PH:350:LYS:HZ3	2.06	0.52
46:PJ:139:LEU:HD12	46:PJ:170:VAL:HG12	1.90	0.52
46:QD:68:LEU:HD22	46:QD:97:ALA:HB2	1.91	0.52
45:QI:211:ASP:HA	45:QI:214:ARG:HG2	1.92	0.52
46:QJ:418:LEU:HD12	46:QJ:421:GLU:OE2	2.09	0.52
45:RC:195:LEU:HD23	45:RC:196:GLU:HG3	1.91	0.52
46:RH:20:PHE:HA	46:RH:230:SER:OG	2.09	0.52
46:RH:222:TYR:HA	46:RH:225:LEU:HG	1.90	0.52
45:RM:242:LEU:HD11	45:RM:252:ILE:HG13	1.92	0.52
46:RN:87:PRO:HA	46:RN:90:PHE:CD2	2.42	0.52
45:SC:181:VAL:HG23	45:SC:182:VAL:HG13	1.90	0.52
45:SM:292:THR:HG21	45:SM:331:SER:HB3	1.90	0.52
46:TD:97:ALA:HB3	46:TD:143:THR:HB	1.91	0.52
46:TD:148:GLY:O	46:TD:151:LEU:HG	2.10	0.52
46:TD:258:ILE:HD11	45:TE:407:TRP:HZ2	1.73	0.52
46:TH:119:VAL:O	46:TH:122:LYS:HG3	2.10	0.52
46:TH:405:GLU:HA	46:TH:408:PHE:HD1	1.74	0.52
45:TI:102:ASN:ND2	45:TI:105:ARG:HG3	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TI:141:VAL:HG11	45:TI:172:TYR:CD1	2.43	0.52
46:TL:208:TYR:HE2	46:TL:225:LEU:HD11	1.74	0.52
46:TN:166:THR:HG21	46:TN:192:LEU:HD11	1.91	0.52
45:UC:251:ASP:OD1	45:UC:252:ILE:N	2.42	0.52
45:UE:230:LEU:O	45:UE:234:VAL:HG23	2.09	0.52
45:VA:343:PHE:CZ	45:VA:351:PHE:HE1	2.27	0.52
46:VF:6:HIS:NE2	46:VF:8:GLN:OE1	2.43	0.52
46:VF:287:PRO:HA	46:VF:329:GLN:HE22	1.74	0.52
46:VF:318:ARG:HB3	46:VF:357:PRO:HA	1.90	0.52
45:VM:408:TYR:HD2	45:VM:418:PHE:HZ	1.56	0.52
46:VN:198:GLU:HG2	46:VN:266:PHE:HE2	1.72	0.52
46:VN:284:LEU:HD12	46:VN:289:LEU:HD21	1.92	0.52
46:WB:207:LEU:HD13	46:WB:225:LEU:HB2	1.90	0.52
46:WF:73:MET:HE2	46:WF:92:PHE:HB3	1.92	0.52
45:WG:7:ILE:HB	45:WG:137:VAL:HG12	1.91	0.52
45:WG:56:THR:HG23	45:WG:58:ALA:H	1.74	0.52
45:WK:222:PRO:HD2	46:WL:324:LYS:HG3	1.90	0.52
17:1F:23:THR:N	46:HL:320:ARG:HH12	2.07	0.52
25:1R:454:ARG:HH21	46:FD:219:THR:CG2	2.19	0.52
9:2N:16:ILE:HG22	46:IB:48:ASN:HD22	1.73	0.52
24:2P:384:SER:HB3	45:TM:370:LYS:HE2	1.90	0.52
27:4C:65:PHE:CZ	45:LM:33:ASP:HB2	2.45	0.52
35:4S:154:SER:HB3	35:4S:157:ILE:HG22	1.91	0.52
37:5H:56:VAL:HG22	46:ON:276:ARG:HD3	1.92	0.52
34:5R:469:LYS:NZ	34:5R:472:GLU:HA	2.24	0.52
41:6H:167:LYS:HZ2	46:FB:362:LYS:H	1.58	0.52
44:8R:122:ALA:HA	44:8R:125:TYR:CD2	2.44	0.52
46:AF:6:HIS:HE1	46:AF:8:GLN:HB3	1.75	0.52
46:AF:31:ASP:OD2	46:AF:35:THR:OG1	2.27	0.52
46:AJ:39:ASP:OD1	46:AJ:40:SER:N	2.43	0.52
45:BA:10:GLY:O	45:BA:14:ILE:HD12	2.09	0.52
46:BF:65:LEU:HD22	46:BF:90:PHE:CE1	2.43	0.52
46:BH:68:LEU:HB3	46:BH:96:GLY:HA2	1.92	0.52
46:BL:72:THR:O	46:BL:75:SER:OG	2.25	0.52
46:CF:148:GLY:O	46:CF:152:ILE:HG12	2.08	0.52
45:CG:395:PHE:HZ	45:CG:418:PHE:HB3	1.75	0.52
46:CN:292:GLN:O	46:CN:298:ASN:ND2	2.36	0.52
46:CN:299:MET:HG3	46:CN:305:PRO:HG3	1.91	0.52
45:DA:244:PHE:HB2	45:DA:356:ASN:HD21	1.74	0.52
46:DL:251:ARG:NH1	45:DM:97:GLU:OE2	2.43	0.52
45:DM:182:VAL:HG12	45:DM:404:PHE:CD2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:164:MET:HB2	46:ED:197:ASP:H	1.75	0.52
46:FF:21:TRP:CZ2	46:FF:63:ALA:HB2	2.44	0.52
45:GC:417:GLU:HA	45:GC:420:GLU:HG2	1.91	0.52
45:GE:155:GLU:OE1	45:GE:197:HIS:NE2	2.42	0.52
46:GF:248:SER:HA	46:GF:252:LYS:HD2	1.92	0.52
45:HI:101:ASN:HA	45:HI:144:GLY:H	1.73	0.52
45:HK:119:LEU:HA	45:HK:122:ILE:HD12	1.91	0.52
45:IE:10:GLY:O	45:IE:14:ILE:HG12	2.09	0.52
45:IG:31:GLN:NE2	45:IG:37:PRO:HB3	2.24	0.52
45:IM:90:GLU:OE2	45:IM:121:ARG:NH1	2.43	0.52
45:JG:175:PRO:HB2	45:JG:176:GLN:OE1	2.10	0.52
46:JH:296:ALA:HB1	46:JH:305:PRO:HD2	1.91	0.52
46:JN:16:ILE:HD12	46:JN:229:VAL:HG11	1.92	0.52
46:KB:68:LEU:HD23	46:KB:112:LEU:HD13	1.91	0.52
46:KD:208:TYR:HE1	46:KD:225:LEU:HD11	1.73	0.52
45:KG:431:ASP:O	45:KG:435:VAL:HG23	2.09	0.52
45:KI:17:GLY:HA2	45:KI:20:CYS:SG	2.50	0.52
46:KJ:326:VAL:O	46:KJ:330:MET:HG2	2.09	0.52
45:KK:90:GLU:HG3	45:KK:121:ARG:NH1	2.25	0.52
45:KK:377:MET:O	45:KK:378:ILE:HD13	2.10	0.52
45:KM:387:VAL:HG12	45:KM:390:ARG:HH22	1.75	0.52
46:KN:19:LYS:NZ	46:KN:223:GLY:O	2.33	0.52
45:LC:88:HIS:CE1	45:LC:90:GLU:HG2	2.45	0.52
45:LC:221:ARG:NH2	46:LD:321:MET:HA	2.16	0.52
45:LM:107:HIS:ND1	45:LM:107:HIS:O	2.43	0.52
46:MB:420:SER:O	46:MB:423:GLN:HG3	2.08	0.52
45:MC:296:PHE:HD2	45:MC:341:ILE:HD13	1.75	0.52
45:ME:210:TYR:HB3	46:MF:324:LYS:HZ3	1.75	0.52
46:MF:201:VAL:HG23	46:MF:301:CYS:SG	2.49	0.52
45:MG:362:VAL:HB	45:MG:370:LYS:HB3	1.90	0.52
45:MI:259:LEU:HD21	45:MI:316:SER:HB2	1.91	0.52
45:NC:11:GLN:NE2	46:ND:245:GLN:O	2.42	0.52
45:NG:102:ASN:OD1	45:NG:105:ARG:N	2.37	0.52
46:OB:318:ARG:HD3	46:OB:358:PRO:HD3	1.91	0.52
45:OC:310:GLY:HA3	45:OC:383:ALA:HB2	1.91	0.52
46:OL:263:LEU:HD22	46:OL:422:TYR:HD1	1.74	0.52
45:PE:141:VAL:HG11	45:PE:172:TYR:HA	1.90	0.52
45:PI:100:ALA:HA	46:PJ:252:LYS:HG2	1.90	0.52
45:PK:296:PHE:HE1	45:PK:377:MET:HG3	1.73	0.52
45:PK:387:VAL:HA	45:PK:390:ARG:HG2	1.90	0.52
45:PM:170:THR:O	45:PM:204:LEU:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QA:118:CYS:O	45:QA:122:ILE:HG12	2.09	0.52
45:QK:121:ARG:CZ	45:QK:121:ARG:HA	2.40	0.52
45:QM:83:TYR:HB3	45:QM:86:LEU:HD12	1.90	0.52
46:QN:260:PHE:HB2	46:QN:263:LEU:HD13	1.91	0.52
46:RF:20:PHE:HA	46:RF:230:SER:OG	2.10	0.52
46:RF:101:TRP:HB2	46:RF:184:ASN:HB3	1.92	0.52
46:RF:258:ILE:HG13	45:RG:407:TRP:CZ2	2.44	0.52
45:RI:30:ILE:HA	45:RI:36:MET:HE3	1.91	0.52
46:RJ:347:ASN:HD21	45:RK:178:SER:CB	2.21	0.52
45:RK:20:CYS:HA	45:RK:232:ALA:HB1	1.90	0.52
46:RN:42:LEU:HA	46:RN:45:GLU:HG3	1.91	0.52
45:SA:211:ASP:HB3	45:SA:215:ARG:HH12	1.74	0.52
46:SB:178:THR:HB	46:SB:181:GLU:HG3	1.91	0.52
46:SB:215:LEU:HD21	46:SB:273:LEU:HD12	1.91	0.52
45:SC:270:SER:O	45:SC:302:MET:HG3	2.09	0.52
46:SH:217:LEU:HD23	46:SH:219:THR:H	1.75	0.52
46:SH:258:ILE:O	46:SH:258:ILE:HG13	2.10	0.52
45:SI:319:TYR:HB3	45:SI:323:VAL:HG11	1.90	0.52
46:SJ:152:ILE:O	46:SJ:156:ARG:HG2	2.09	0.52
45:TG:98:ASP:OD2	45:TG:99:ALA:N	2.42	0.52
46:TH:55:THR:HG23	46:UH:283:ALA:HA	1.92	0.52
45:TI:111:GLY:O	45:TI:115:VAL:HG13	2.09	0.52
45:TM:91:GLN:HE21	45:TM:121:ARG:CZ	2.23	0.52
45:UG:288:VAL:HG13	45:UG:373:ARG:NH2	2.23	0.52
45:UI:231:ILE:O	45:UI:235:ILE:HG12	2.09	0.52
46:UJ:268:ILE:HG22	46:UJ:368:VAL:HA	1.92	0.52
45:UM:322:ASP:OD1	45:UM:373:ARG:NH1	2.42	0.52
46:UN:116:VAL:HA	46:UN:119:VAL:HG12	1.91	0.52
46:VB:245:GLN:CD	46:VB:245:GLN:H	2.12	0.52
46:VD:273:LEU:H	46:VD:292:GLN:NE2	2.08	0.52
46:VN:313:ALA:HB1	46:VN:367:PHE:HE1	1.74	0.52
45:WG:50:ASN:O	45:WG:64:ARG:NH1	2.32	0.52
45:WG:215:ARG:NH2	45:WG:299:ALA:HB1	2.23	0.52
46:WJ:63:ALA:O	46:WJ:89:ASN:ND2	2.43	0.52
45:DC:426:ALA:HB1	45:DC:430:LYS:NZ	2.23	0.52
3:0C:53:TYR:HB3	45:EI:221:ARG:NH2	2.24	0.52
14:0V:46:PRO:HG2	45:LM:114:ILE:HD11	1.91	0.52
14:2V:71:PHE:O	46:MF:306:ARG:HD3	2.09	0.52
31:3I:197:GLN:HE22	45:FK:127:ASP:N	2.07	0.52
36:5A:90:GLN:NE2	36:5A:98:LEU:H	2.07	0.52
36:5A:138:ARG:NH1	46:ND:357:PRO:HD2	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:5R:367:GLN:NE2	34:5R:368:GLN:O	2.43	0.52
40:6G:249:TRP:NE1	46:VD:340:TYR:OH	2.42	0.52
10:6Q:44:SER:OG	10:6Q:163:ARG:NH1	2.42	0.52
45:AK:205:ASP:OD2	45:AK:303:ALA:HA	2.08	0.52
45:AM:69:ASP:OD1	45:AM:70:LEU:N	2.43	0.52
46:BD:86:ARG:HG3	46:BD:88:ASP:H	1.72	0.52
45:BG:332:ILE:HD11	45:BG:351:PHE:CG	2.45	0.52
45:CA:254:GLU:HG3	46:CB:98:GLY:HA2	1.91	0.52
46:CB:187:LEU:HD11	46:CB:408:PHE:HE1	1.74	0.52
46:DB:375:GLN:HG3	46:DB:419:VAL:HG13	1.91	0.52
46:DH:254:ALA:O	46:DH:258:ILE:HG12	2.10	0.52
46:DH:260:PHE:HB2	46:DH:263:LEU:HD13	1.91	0.52
45:DK:71:GLU:OE1	45:DK:73:THR:OG1	2.27	0.52
46:EB:260:PHE:HB2	46:EB:263:LEU:HD13	1.92	0.52
46:ED:325:GLU:HB2	45:EE:221:ARG:NH1	2.24	0.52
45:EI:345:ASP:OD1	45:EI:346:TRP:N	2.43	0.52
45:FK:137:VAL:HG23	45:FK:168:GLY:HA2	1.92	0.52
45:GA:33:ASP:HA	45:GA:85:GLN:HE21	1.74	0.52
46:GB:221:THR:HG23	46:GB:224:ASP:H	1.73	0.52
45:GE:77:GLU:HA	45:GE:80:THR:HG22	1.91	0.52
45:GI:221:ARG:NH2	46:GJ:325:GLU:OE2	2.43	0.52
46:GL:32:PRO:HA	46:GL:84:LEU:HD11	1.92	0.52
46:GL:139:LEU:HD12	46:GL:170:VAL:HG12	1.91	0.52
45:GM:265:ILE:HG22	45:GM:380:ASN:HD21	1.75	0.52
46:HB:309:ARG:NH2	46:HB:426:GLN:O	2.36	0.52
46:HF:66:MET:HE1	46:HF:147:MET:HG2	1.92	0.52
45:HG:257:THR:HA	46:HJ:397:TRP:CZ2	2.44	0.52
46:HN:175:VAL:HG22	46:HN:205:GLU:HB3	1.91	0.52
45:IC:8:HIS:HB2	45:IC:67:PHE:HD2	1.74	0.52
45:IE:179:THR:HG21	46:IF:246:LEU:HD23	1.91	0.52
45:IG:280:LYS:HE2	45:IG:283:HIS:HB2	1.92	0.52
46:IH:287:PRO:HA	46:IH:329:GLN:NE2	2.23	0.52
45:IM:3:GLU:OE2	45:IM:131:GLY:N	2.42	0.52
46:JB:86:ARG:HD3	46:JB:88:ASP:HB2	1.92	0.52
46:JB:378:PHE:HA	46:JB:381:VAL:HG12	1.91	0.52
45:JG:218:ASP:OD2	45:JG:280:LYS:NZ	2.37	0.52
46:JL:404:ASP:O	46:JL:407:GLU:HG2	2.10	0.52
45:JM:88:HIS:CE1	45:KM:280:LYS:HZ1	2.28	0.52
45:JM:119:LEU:HA	45:JM:122:ILE:HG22	1.90	0.52
46:JN:5:VAL:HG12	46:JN:62:ARG:HD3	1.91	0.52
45:LA:19:ALA:O	45:LA:22:GLU:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LF:207:LEU:HB3	46:LF:225:LEU:HD22	1.91	0.52
45:LK:399:TYR:O	45:LK:402:ARG:NH1	2.41	0.52
46:MD:67:ASP:O	46:MD:92:PHE:HA	2.08	0.52
46:MD:151:LEU:O	46:MD:155:VAL:HG22	2.09	0.52
45:MG:263:PRO:HD3	46:MJ:396:HIS:CE1	2.44	0.52
45:MK:258:ASN:HD22	45:MK:352:LYS:HD2	1.74	0.52
45:MM:133:GLN:HB3	45:MM:252:ILE:HG21	1.92	0.52
45:NA:108:TYR:O	45:NA:112:LYS:NZ	2.43	0.52
45:NA:210:TYR:CE2	46:NB:324:LYS:HB2	2.43	0.52
45:NA:241:SER:OG	45:NA:250:VAL:O	2.18	0.52
45:NC:419:SER:O	45:NC:423:GLU:HG2	2.10	0.52
45:NG:244:PHE:HB2	45:NG:356:ASN:HD21	1.75	0.52
45:NG:397:LEU:HD21	46:NH:344:TRP:HA	1.92	0.52
46:NJ:67:ASP:OD1	46:NJ:68:LEU:N	2.41	0.52
46:NL:294:PHE:CE1	46:NL:333:VAL:HG11	2.44	0.52
45:NM:227:LEU:O	45:NM:231:ILE:HD12	2.09	0.52
45:OC:2:ARG:HG3	45:OC:133:GLN:NE2	2.24	0.52
45:OK:249:ASN:ND2	46:ON:11:GLN:OE1	2.40	0.52
45:PE:227:LEU:O	45:PE:231:ILE:HD12	2.09	0.52
46:PF:44:LEU:HA	46:PF:47:ILE:HG23	1.91	0.52
46:PN:31:ASP:OD1	46:PN:35:THR:N	2.36	0.52
45:QC:88:HIS:HA	45:RC:280:LYS:HE2	1.91	0.52
45:QC:89:PRO:HD3	45:RC:280:LYS:HE2	1.91	0.52
45:QC:426:ALA:HB1	45:QC:430:LYS:HZ1	1.74	0.52
45:QE:259:LEU:HD22	45:QE:268:MET:HE3	1.92	0.52
45:QE:265:ILE:HD11	45:QE:435:VAL:HG21	1.90	0.52
46:QJ:86:ARG:HH12	46:RJ:282:ARG:HG2	1.74	0.52
45:QK:147:SER:HB2	45:QK:190:SER:HB3	1.90	0.52
45:QK:254:GLU:CD	45:QK:258:ASN:HD21	2.13	0.52
46:RB:210:ILE:O	46:RB:214:THR:OG1	2.23	0.52
45:RE:211:ASP:HA	45:RE:214:ARG:HG2	1.90	0.52
45:RG:68:LEU:HD13	45:RG:93:ILE:HB	1.91	0.52
46:RH:36:TYR:CZ	46:RH:44:LEU:HD11	2.44	0.52
45:RK:248:LEU:HB2	45:RK:355:ILE:HG22	1.91	0.52
46:RL:22:GLU:HA	46:RL:81:PHE:HD2	1.74	0.52
45:SC:183:GLU:N	45:SC:184:PRO:HD2	2.24	0.52
45:SC:345:ASP:OD1	45:SC:346:TRP:N	2.42	0.52
45:SE:90:GLU:HG2	45:SE:121:ARG:NH2	2.25	0.52
45:SE:241:SER:OG	45:SE:250:VAL:O	2.21	0.52
46:SJ:46:ARG:NH2	45:SK:73:THR:HA	2.25	0.52
45:SK:208:ALA:O	45:SK:212:ILE:HG12	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SM:76:ASP:OD1	45:SM:79:ARG:NH2	2.40	0.52
45:SM:102:ASN:ND2	45:SM:407:TRP:O	2.42	0.52
46:SN:167:PHE:CE2	46:SN:233:MET:HG2	2.44	0.52
46:TB:20:PHE:HD2	46:TB:21:TRP:CD1	2.28	0.52
46:TL:2:ARG:NH2	45:TM:70:LEU:O	2.43	0.52
46:UB:190:HIS:HE2	46:UB:415:MET:HG2	1.73	0.52
45:UC:362:VAL:HB	45:UC:370:LYS:HB3	1.91	0.52
45:UE:99:ALA:HA	45:UE:105:ARG:HD3	1.92	0.52
45:UK:99:ALA:HA	45:UK:105:ARG:HE	1.75	0.52
45:UK:244:PHE:HB2	45:UK:356:ASN:HD21	1.73	0.52
46:UL:86:ARG:NH1	46:VL:281:TYR:HB2	2.24	0.52
45:VK:79:ARG:NH2	45:VK:92:LEU:O	2.43	0.52
45:WC:129:CYS:SG	45:WC:132:LEU:N	2.83	0.52
46:WD:3:GLU:OE2	46:WD:127:CYS:HB2	2.10	0.52
45:WE:398:MET:HE3	46:WF:346:PRO:HD2	1.91	0.52
45:WG:228:ASN:HA	45:WG:231:ILE:HD12	1.92	0.52
45:WG:407:TRP:HZ2	46:WH:258:ILE:HD11	1.74	0.52
46:WJ:16:ILE:HD13	46:WJ:226:ASN:OD1	2.10	0.52
46:WL:344:TRP:HE3	46:WL:345:ILE:HG23	1.74	0.52
45:WM:407:TRP:NE1	46:WN:255:VAL:HG22	2.23	0.52
46:WN:238:CYS:SG	46:WN:318:ARG:HD2	2.49	0.52
45:CE:211:ASP:HB3	45:CE:215:ARG:CZ	2.39	0.52
45:DC:35:GLN:HA	45:DC:60:LYS:HA	1.92	0.52
3:0C:122:ARG:HH12	45:DI:225:THR:HB	1.73	0.52
6:0F:80:TYR:HE2	45:EE:81:GLY:HA3	1.73	0.52
15:0X:83:MET:CE	34:7R:47:GLU:HB2	2.39	0.52
23:1O:265:PHE:C	45:UA:282:TYR:CD2	2.82	0.52
23:1O:268:ASN:HD22	45:UA:283:HIS:CD2	2.27	0.52
26:1W:245:LEU:HD22	34:7R:17:PHE:CD2	2.45	0.52
21:2L:546:GLN:HG2	45:BM:279:GLU:OE1	2.08	0.52
37:5F:126:LEU:HD13	45:OE:285:GLN:HE22	1.75	0.52
37:5G:61:LYS:H	46:OJ:276:ARG:HH22	1.56	0.52
34:5R:256:LEU:HD22	34:5R:356:THR:HG23	1.90	0.52
10:6Q:74:PRO:HD2	10:6Q:169:ASP:OD1	2.10	0.52
34:7R:389:ASN:H	46:EB:276:ARG:NH2	2.07	0.52
46:AD:398:TYR:HD2	46:AD:408:PHE:HZ	1.58	0.52
45:AE:324:VAL:HG12	45:AE:326:LYS:H	1.75	0.52
46:CB:2:ARG:NH2	46:CB:240:LEU:O	2.43	0.52
46:CB:15:GLN:OE1	49:CB:501:GDP:N1	2.42	0.52
46:CN:77:ARG:HD2	46:CN:90:PHE:CE2	2.45	0.52
46:DB:138:SER:HA	46:DB:169:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:181:GLU:HB3	46:DF:182:PRO:HD3	1.91	0.52
46:DH:134:GLN:HA	46:DH:165:GLU:O	2.10	0.52
45:DM:328:VAL:HG11	45:DM:353:VAL:HG21	1.92	0.52
46:ED:324:LYS:NZ	45:EE:214:ARG:HB2	2.23	0.52
45:EI:276:ILE:HG13	45:EI:280:LYS:HE2	1.91	0.52
46:FF:377:MET:HE3	46:FF:380:ARG:HH12	1.74	0.52
45:FG:69:ASP:OD1	45:FG:70:LEU:N	2.43	0.52
46:FH:97:ALA:HB3	46:FH:143:THR:HB	1.91	0.52
45:FI:392:ASP:OD1	45:FI:422:ARG:NE	2.42	0.52
46:FL:226:ASN:HD21	49:FL:502:GDP:HN1	1.56	0.52
45:GA:245:ASP:N	45:GA:245:ASP:OD1	2.43	0.52
45:GC:220:GLU:H	45:GC:220:GLU:CD	2.13	0.52
46:GD:117:LEU:HA	46:GD:120:VAL:HG12	1.91	0.52
45:GG:140:SER:OG	47:GG:501:GTP:O2B	2.27	0.52
45:GI:115:VAL:O	45:GI:119:LEU:HD23	2.10	0.52
45:HG:72:PRO:HD2	46:HH:2:ARG:NH2	2.25	0.52
45:HI:210:TYR:CD1	46:HJ:324:LYS:HE3	2.44	0.52
45:HK:288:VAL:HA	45:HK:291:ILE:HG22	1.91	0.52
45:IC:268:MET:HB2	45:IC:379:SER:O	2.09	0.52
46:IH:190:HIS:CD2	46:IH:411:ALA:HA	2.44	0.52
45:II:3:GLU:OE2	45:II:131:GLY:N	2.41	0.52
46:JB:267:MET:HB2	46:JB:299:MET:CE	2.40	0.52
45:JK:326:LYS:HG3	45:JK:327:ASP:N	2.24	0.52
46:JL:203:ASP:OD2	46:JL:206:ALA:N	2.41	0.52
45:KC:256:GLN:HB2	46:KF:397:TRP:CZ2	2.44	0.52
45:KE:195:LEU:HD13	45:KE:428:LEU:HD12	1.92	0.52
46:KF:9:GLY:HA2	46:KF:66:MET:O	2.09	0.52
45:KI:358:GLN:NE2	45:KI:359:PRO:O	2.42	0.52
46:LN:122:LYS:HE2	46:MN:291:GLN:NE2	2.25	0.52
45:MC:265:ILE:HG22	45:MC:380:ASN:HD21	1.75	0.52
45:MC:419:SER:O	45:MC:423:GLU:HG2	2.09	0.52
46:MD:36:TYR:CZ	46:MD:44:LEU:HD11	2.45	0.52
46:MD:62:ARG:NH2	46:MD:127:CYS:HB3	2.24	0.52
45:ME:227:LEU:O	45:ME:231:ILE:HD12	2.09	0.52
45:MG:116:ASP:OD1	45:MG:116:ASP:N	2.43	0.52
45:MG:174:SER:HB2	45:MG:177:VAL:O	2.09	0.52
46:MH:309:ARG:NH2	46:MH:426:GLN:O	2.33	0.52
46:MJ:20:PHE:HA	46:MJ:230:SER:OG	2.10	0.52
46:ML:7:ILE:HG22	46:ML:64:ILE:HB	1.92	0.52
45:MM:118:CYS:O	45:MM:122:ILE:HG12	2.10	0.52
45:NE:3:GLU:OE2	45:NE:129:CYS:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:8:HIS:CD2	45:NG:17:GLY:HA3	2.44	0.52
46:NJ:200:MET:HE3	46:NJ:266:PHE:HB2	1.92	0.52
45:OC:141:VAL:HG22	45:OC:187:SER:HA	1.92	0.52
46:OF:5:VAL:HG12	46:OF:62:ARG:HD3	1.92	0.52
45:OG:205:ASP:OD1	45:OG:303:ALA:HA	2.10	0.52
45:PA:140:SER:OG	47:PA:501:GTP:O2B	2.28	0.52
45:PC:352:LYS:HZ3	46:PF:179:VAL:H	1.57	0.52
45:PG:55:GLU:CD	45:PG:57:GLY:H	2.13	0.52
46:PJ:88:ASP:OD2	46:PJ:89:ASN:N	2.43	0.52
46:PN:221:THR:HG23	46:PN:224:ASP:H	1.75	0.52
46:QB:2:ARG:NH1	45:QC:96:LYS:HB3	2.24	0.52
45:QC:169:PHE:HD1	45:QC:204:LEU:HD11	1.75	0.52
46:QD:350:LYS:HD2	46:QD:351:SER:H	1.75	0.52
45:QK:76:ASP:HA	45:QK:79:ARG:HG2	1.91	0.52
45:RC:183:GLU:N	45:RC:184:PRO:HD2	2.25	0.52
46:RJ:258:ILE:O	45:RK:407:TRP:NE1	2.40	0.52
46:RN:3:GLU:HG3	46:RN:62:ARG:NH1	2.24	0.52
46:SB:24:ILE:O	46:SB:27:GLU:HG2	2.09	0.52
46:SB:31:ASP:OD2	46:SB:37:HIS:ND1	2.43	0.52
46:SF:260:PHE:HB2	46:SF:263:LEU:HD13	1.90	0.52
45:SG:137:VAL:HG23	45:SG:168:GLY:HA2	1.90	0.52
46:SH:12:CYS:O	46:SH:16:ILE:HG12	2.10	0.52
45:TG:336:LYS:NZ	45:TG:349:THR:HA	2.24	0.52
46:TN:282:ARG:NH2	46:TN:292:GLN:OE1	2.43	0.52
45:UG:346:TRP:CD1	46:UH:391:ARG:HG3	2.44	0.52
46:UL:317:PHE:CD1	46:UL:365:VAL:HG22	2.45	0.52
45:UM:324:VAL:HG12	45:UM:326:LYS:HG2	1.90	0.52
46:VF:99:ASN:HA	46:VF:142:GLY:H	1.75	0.52
46:VF:253:LEU:O	46:VF:257:LEU:HB2	2.09	0.52
45:VI:175:PRO:HB2	45:VI:176:GLN:OE1	2.10	0.52
45:VK:141:VAL:HG11	45:VK:172:TYR:CD1	2.44	0.52
45:VK:222:PRO:HD2	46:VL:324:LYS:CE	2.40	0.52
46:VN:311:LEU:H	46:VN:371:SER:HA	1.74	0.52
45:WK:209:ILE:HD11	45:WK:302:MET:HG2	1.92	0.52
4:1D:224:ARG:HH11	34:4R:493:GLY:HA3	1.72	0.52
19:1J:139:LYS:HG3	45:IE:372:MET:SD	2.49	0.52
4:2D:84:SER:HA	46:EJ:320:ARG:HH21	1.74	0.52
14:2V:24:ARG:HE	45:ME:430:LYS:NZ	2.06	0.52
37:5F:116:TYR:HB3	45:OE:279:GLU:OE2	2.10	0.52
34:5R:146:LYS:HG3	46:AL:78:ALA:HB3	1.92	0.52
34:6R:80:ARG:HH22	45:MM:38:SER:H	1.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:6R:489:ASP:OD1	34:6R:490:PHE:N	2.43	0.52
45:AG:91:GLN:HB3	45:AG:121:ARG:HH11	1.74	0.52
46:AH:67:ASP:OD1	46:AH:68:LEU:N	2.43	0.52
46:AH:376:GLU:O	46:AH:380:ARG:HG3	2.10	0.52
45:AK:201:ALA:HB3	45:AK:267:PHE:HD1	1.75	0.52
46:AN:238:CYS:SG	46:AN:239:CYS:N	2.83	0.52
45:BC:1:MET:O	45:BC:3:GLU:HG2	2.09	0.52
45:BC:180:ALA:HB3	45:BC:183:GLU:HG3	1.91	0.52
45:BI:101:ASN:HA	45:BI:144:GLY:H	1.75	0.52
45:BK:258:ASN:HB3	45:BK:352:LYS:HD2	1.92	0.52
46:CB:63:ALA:O	46:CB:89:ASN:ND2	2.43	0.52
45:CC:11:GLN:N	45:CC:11:GLN:OE1	2.42	0.52
45:CG:419:SER:O	45:CG:423:GLU:HG2	2.10	0.52
46:CH:109:GLY:HA2	46:CH:147:MET:HE2	1.91	0.52
46:CN:289:LEU:HD13	46:CN:365:VAL:HG23	1.92	0.52
46:DB:139:LEU:HD22	46:DB:170:VAL:HG12	1.91	0.52
45:DE:260:VAL:HG23	46:DF:397:TRP:HZ2	1.73	0.52
45:DG:18:ASN:N	45:DG:18:ASN:HD22	2.08	0.52
45:EA:212:ILE:HD11	45:EA:300:ASN:HA	1.91	0.52
46:EB:345:ILE:HG22	46:EB:348:ASN:HB3	1.91	0.52
46:ED:61:PRO:HG2	46:ED:85:PHE:HD2	1.75	0.52
46:EH:258:ILE:HG13	45:EI:407:TRP:HE1	1.75	0.52
46:EJ:101:TRP:HB2	46:EJ:184:ASN:HB3	1.92	0.52
45:FK:47:ASP:HB2	45:FK:49:PHE:CE1	2.44	0.52
46:FL:31:ASP:OD1	46:FL:35:THR:N	2.37	0.52
46:FN:372:THR:HA	46:FN:422:TYR:HE2	1.73	0.52
45:GA:152:LEU:O	45:GA:156:ARG:HG2	2.10	0.52
45:GG:296:PHE:HE2	45:GG:335:ILE:HG21	1.75	0.52
46:GH:139:LEU:HD13	46:GH:168:SER:HB3	1.92	0.52
46:GN:370:ASN:OD1	46:GN:422:TYR:OH	2.28	0.52
46:HH:316:LEU:HD23	46:HH:352:SER:HB2	1.92	0.52
45:HI:264:ARG:HG3	45:HI:264:ARG:HH11	1.75	0.52
45:HI:319:TYR:HB3	45:HI:323:VAL:HG11	1.92	0.52
46:IF:282:ARG:NH2	46:IF:292:GLN:OE1	2.43	0.52
46:IJ:105:HIS:CE1	46:IJ:150:LEU:HD12	2.44	0.52
46:IJ:173:PRO:HD3	46:IJ:380:ARG:NH1	2.25	0.52
45:JA:269:LEU:HG	45:JA:301:MET:HE2	1.92	0.52
45:JI:53:PHE:HE2	45:JI:63:PRO:HG3	1.75	0.52
45:KE:9:VAL:HG22	45:KE:146:GLY:HA2	1.90	0.52
46:KF:173:PRO:HG2	46:KF:380:ARG:HD2	1.91	0.52
45:KM:422:ARG:HH12	45:KM:425:LEU:HD13	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:158:GLU:HG3	46:LB:159:TYR:CD1	2.45	0.52
45:LE:9:VAL:HG12	45:LE:68:LEU:HB2	1.91	0.52
45:LM:390:ARG:O	45:LM:394:LYS:HG2	2.10	0.52
45:NI:174:SER:HB2	45:NI:177:VAL:O	2.09	0.52
45:NK:174:SER:HB3	45:NK:207:GLU:HG3	1.92	0.52
46:NN:306:ARG:HA	46:NN:340:TYR:CE2	2.45	0.52
46:OB:286:VAL:HG12	46:OB:329:GLN:NE2	2.25	0.52
45:OI:336:LYS:O	45:OI:339:ARG:NH2	2.43	0.52
46:OJ:207:LEU:HD13	46:OJ:225:LEU:HB3	1.92	0.52
45:OM:221:ARG:HH22	46:ON:324:LYS:CG	2.22	0.52
45:PA:79:ARG:NH2	45:PA:89:PRO:O	2.42	0.52
46:PF:262:ARG:NH2	46:PF:421:GLU:OE2	2.43	0.52
45:PG:196:GLU:HG2	45:PG:197:HIS:ND1	2.24	0.52
46:PJ:67:ASP:O	46:PJ:92:PHE:HA	2.10	0.52
46:PJ:134:GLN:HE21	46:PJ:167:PHE:HE2	1.56	0.52
46:QF:7:ILE:HG23	46:QF:64:ILE:HD11	1.92	0.52
45:QG:10:GLY:O	45:QG:14:ILE:HG12	2.10	0.52
46:QH:67:ASP:OD1	46:QH:68:LEU:N	2.43	0.52
46:QJ:201:VAL:HG23	46:QJ:301:CYS:SG	2.50	0.52
46:QJ:252:LYS:HA	45:QK:100:ALA:HB1	1.91	0.52
45:RC:176:GLN:OE1	45:RC:304:LYS:NZ	2.43	0.52
46:RF:324:LYS:HB3	45:RG:210:TYR:CE2	2.45	0.52
45:RG:359:PRO:HB2	45:RG:370:LYS:NZ	2.24	0.52
45:RI:259:LEU:HD21	45:RI:316:SER:HB2	1.92	0.52
45:RI:271:SER:OG	45:RI:301:MET:SD	2.68	0.52
46:SF:318:ARG:HH11	46:SF:358:PRO:HG3	1.74	0.52
45:SG:214:ARG:HH12	45:SG:220:GLU:HA	1.74	0.52
45:SG:270:SER:O	45:SG:302:MET:HG3	2.09	0.52
45:SI:141:VAL:HG12	45:SI:171:ILE:O	2.09	0.52
45:SK:11:GLN:HE21	47:SK:501:GTP:PA	2.33	0.52
46:SN:221:THR:HG23	46:SN:224:ASP:H	1.75	0.52
46:TD:342:VAL:HG13	46:TD:345:ILE:HG22	1.92	0.52
46:TF:21:TRP:HA	46:TF:24:ILE:HG22	1.91	0.52
45:TG:387:VAL:HA	45:TG:390:ARG:HG2	1.92	0.52
46:TL:3:GLU:OE1	46:TL:49:VAL:HA	2.09	0.52
45:UC:201:ALA:HB3	45:UC:267:PHE:HD2	1.73	0.52
45:UC:244:PHE:HB2	45:UC:356:ASN:HD21	1.75	0.52
46:UD:107:THR:OG1	46:UD:108:GLU:OE1	2.26	0.52
45:UE:326:LYS:HE2	46:UF:208:TYR:CD1	2.43	0.52
46:UF:324:LYS:H	45:UG:221:ARG:NH2	2.04	0.52
45:UG:208:ALA:HA	45:UG:304:LYS:HE3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UH:113:ILE:HD13	46:UH:150:LEU:HD22	1.92	0.52
46:UH:372:THR:HA	46:UH:422:TYR:CE2	2.45	0.52
46:UJ:207:LEU:HD13	46:UJ:225:LEU:HB3	1.92	0.52
46:UJ:314:SER:HA	46:UJ:350:LYS:HB2	1.90	0.52
45:UM:259:LEU:HD23	45:UM:268:MET:HG2	1.92	0.52
46:VB:324:LYS:HB2	46:VB:324:LYS:NZ	2.25	0.52
45:VG:265:ILE:HG22	45:VG:380:ASN:HD21	1.74	0.52
46:VL:406:MET:O	46:VL:410:GLU:HG2	2.09	0.52
45:WA:96:LYS:HA	45:WA:96:LYS:HE2	1.91	0.52
46:WD:173:PRO:HD2	46:WD:380:ARG:NH1	2.25	0.52
45:WE:331:SER:O	45:WE:335:ILE:HG12	2.10	0.52
46:WF:375:GLN:HG3	46:WF:419:VAL:HG13	1.92	0.52
45:WG:223:THR:HG23	45:WG:225:THR:H	1.75	0.52
6:OF:188:ILE:HD12	45:EE:89:PRO:HB3	1.91	0.52
19:1J:348:LEU:HD11	46:IN:228:LEU:HD23	1.92	0.52
16:2B:62:THR:HA	45:LK:84:ARG:NH2	2.17	0.52
31:2I:83:ARG:NH2	45:GE:298:PRO:O	2.34	0.52
25:2R:80:CYS:SG	45:MG:32:PRO:HD2	2.49	0.52
11:2S:184:PRO:HG3	45:WG:127:ASP:HB3	1.91	0.52
14:3V:71:PHE:HB2	46:MB:306:ARG:HH21	1.75	0.52
34:7R:450:ASP:OD1	34:7R:452:THR:OG1	2.28	0.52
45:AA:283:HIS:HD1	45:MA:89:PRO:HD3	1.74	0.52
46:BD:259:PRO:HG2	46:BD:311:LEU:HD21	1.92	0.52
46:BL:118:ASP:O	46:BL:121:ARG:HG2	2.10	0.52
45:BM:68:LEU:HD13	45:BM:93:ILE:HB	1.91	0.52
46:CD:6:HIS:CD2	46:CD:21:TRP:HE1	2.28	0.52
46:CD:405:GLU:O	46:CD:409:THR:HG23	2.10	0.52
45:CI:9:VAL:HG21	45:CI:149:LEU:HB2	1.92	0.52
45:CI:311:LYS:O	45:CI:381:SER:OG	2.20	0.52
45:CK:213:CYS:SG	45:CK:219:ILE:HB	2.49	0.52
46:DD:208:TYR:HB3	45:DC:326:LYS:HZ3	1.75	0.52
45:DG:206:ASN:HB3	45:DG:210:TYR:CZ	2.45	0.52
45:DI:345:ASP:OD2	46:DJ:390:ARG:NH2	2.43	0.52
46:DN:6:HIS:O	46:DN:63:ALA:HA	2.10	0.52
46:EB:267:MET:HG3	46:EB:301:CYS:HB2	1.92	0.52
45:EC:69:ASP:O	45:EC:94:SER:HA	2.10	0.52
45:EC:166:LYS:N	45:EC:199:ASP:OD2	2.35	0.52
45:EC:345:ASP:OD1	45:EC:346:TRP:N	2.42	0.52
45:EC:399:TYR:HE2	45:EC:418:PHE:HD2	1.57	0.52
46:EF:215:LEU:HD11	46:EF:273:LEU:HD12	1.92	0.52
46:EJ:258:ILE:HG22	46:EJ:266:PHE:HZ	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:238:CYS:SG	46:EL:318:ARG:HD3	2.50	0.52
46:FF:313:ALA:HB1	46:FF:367:PHE:HE1	1.75	0.52
46:GD:77:ARG:NH1	46:GD:82:GLY:O	2.43	0.52
45:GE:223:THR:HG23	45:GE:225:THR:H	1.75	0.52
46:GJ:117:LEU:HA	46:GJ:120:VAL:HG12	1.91	0.52
45:GM:340:THR:HG23	45:GM:341:ILE:HG13	1.91	0.52
45:HG:31:GLN:OE1	45:HG:31:GLN:N	2.42	0.52
45:HG:184:PRO:O	45:HG:188:ILE:HG12	2.10	0.52
45:HI:55:GLU:HG3	45:HI:57:GLY:H	1.75	0.52
46:HJ:257:LEU:HD11	46:HJ:314:SER:HB2	1.91	0.52
45:HM:404:PHE:HE2	46:HN:259:PRO:HA	1.74	0.52
45:IG:324:VAL:HG12	45:IG:326:LYS:HG2	1.92	0.52
45:IK:55:GLU:HG3	45:IK:57:GLY:H	1.75	0.52
45:IM:173:PRO:O	45:IM:390:ARG:NH2	2.43	0.52
45:JC:255:PHE:O	45:JC:259:LEU:HB2	2.10	0.52
45:JE:96:LYS:HA	45:JE:96:LYS:HE2	1.91	0.52
46:JF:404:ASP:OD2	46:JF:405:GLU:N	2.42	0.52
45:JG:205:ASP:OD2	45:JG:303:ALA:HA	2.09	0.52
45:KG:25:CYS:HB2	45:KG:30:ILE:HB	1.91	0.52
46:KH:156:ARG:NH2	46:KH:160:PRO:O	2.43	0.52
45:LC:115:VAL:O	45:LC:119:LEU:HG	2.10	0.52
46:LF:380:ARG:O	46:LF:383:GLU:HG3	2.10	0.52
45:ME:317:MET:HG2	45:ME:377:MET:HG2	1.92	0.52
45:MG:208:ALA:O	45:MG:212:ILE:HG12	2.10	0.52
46:MH:32:PRO:HA	46:MH:84:LEU:HD11	1.92	0.52
46:MH:138:SER:HA	46:MH:169:VAL:HB	1.91	0.52
45:MM:384:ILE:O	45:MM:387:VAL:HG22	2.10	0.52
46:NB:116:VAL:HA	46:NB:119:VAL:HG12	1.92	0.52
46:ND:150:LEU:HD23	46:ND:154:LYS:HZ1	1.75	0.52
46:ND:155:VAL:HA	46:ND:158:GLU:OE1	2.10	0.52
45:NE:33:ASP:HA	45:NE:85:GLN:CB	2.40	0.52
45:NE:352:LYS:NZ	46:NH:179:VAL:HG22	2.25	0.52
45:OA:147:SER:HB2	45:OA:190:SER:HB2	1.91	0.52
46:OB:24:ILE:HG23	46:OB:28:HIS:CE1	2.45	0.52
45:OE:257:THR:HG22	46:OH:397:TRP:HZ3	1.74	0.52
46:OF:325:GLU:HA	46:OF:328:GLU:HG3	1.91	0.52
46:OJ:182:PRO:HG2	46:OJ:388:MET:HE1	1.90	0.52
45:PA:207:GLU:OE2	45:PA:304:LYS:HB2	2.10	0.52
45:PA:252:ILE:HD12	45:PA:255:PHE:CE2	2.45	0.52
45:PC:33:ASP:O	45:PC:60:LYS:NZ	2.43	0.52
46:PD:149:THR:HA	46:PD:152:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PJ:32:PRO:O	46:PJ:83:GLN:NE2	2.32	0.52
45:PM:76:ASP:OD1	46:PN:46:ARG:NH2	2.42	0.52
46:QF:105:HIS:CE1	46:QF:150:LEU:HD12	2.45	0.52
46:QF:175:VAL:HG22	46:QF:205:GLU:HB3	1.92	0.52
45:QG:108:TYR:O	45:QG:112:LYS:NZ	2.38	0.52
46:RF:7:ILE:HB	46:RF:135:ILE:HG22	1.92	0.52
46:RH:86:ARG:HH22	46:SH:282:ARG:HG3	1.75	0.52
46:RJ:11:GLN:HE21	49:RJ:501:GDP:PA	2.33	0.52
46:RJ:27:GLU:OE2	46:RJ:241:ARG:NH2	2.43	0.52
46:RJ:252:LYS:HA	45:RK:100:ALA:HB1	1.92	0.52
46:RL:238:CYS:SG	46:RL:239:CYS:N	2.83	0.52
45:RM:75:ILE:HG23	45:RM:92:LEU:HG	1.90	0.52
46:SB:12:CYS:O	46:SB:16:ILE:HG12	2.09	0.52
46:SF:2:ARG:NH2	45:SG:71:GLU:OE2	2.32	0.52
46:SF:375:GLN:HA	46:SF:378:PHE:HD2	1.74	0.52
45:SG:392:ASP:OD1	45:SG:422:ARG:NH1	2.42	0.52
45:SK:11:GLN:NE2	47:SK:501:GTP:O1A	2.36	0.52
46:SL:186:THR:HG23	46:SL:415:MET:CE	2.39	0.52
46:TB:258:ILE:HD12	46:TB:264:HIS:HB3	1.92	0.52
46:TB:317:PHE:CD1	46:TB:365:VAL:HG22	2.44	0.52
45:TC:319:TYR:HD2	45:TC:323:VAL:HG11	1.75	0.52
45:TE:118:CYS:O	45:TE:122:ILE:HG12	2.10	0.52
46:TJ:46:ARG:HH22	45:TK:73:THR:HA	1.75	0.52
45:UA:49:PHE:HD1	45:UA:53:PHE:HB2	1.75	0.52
45:UE:151:SER:O	45:UE:154:LEU:N	2.42	0.52
46:UH:381:VAL:HG12	46:UH:385:PHE:CE2	2.44	0.52
45:UI:111:GLY:O	45:UI:115:VAL:HG13	2.10	0.52
45:UI:320:ARG:HD3	45:UI:360:PRO:HG3	1.92	0.52
46:UJ:238:CYS:SG	46:UJ:241:ARG:NH2	2.82	0.52
46:UL:86:ARG:HH21	46:UL:87:PRO:HD2	1.74	0.52
46:UN:260:PHE:HB2	46:UN:263:LEU:HD13	1.92	0.52
46:VB:332:ASN:HD22	46:VB:336:LYS:NZ	2.07	0.52
45:VE:206:ASN:ND2	45:VE:210:TYR:OH	2.43	0.52
45:VK:261:PRO:CD	45:VK:262:TYR:H	2.21	0.52
46:WF:31:ASP:OD2	46:WF:33:THR:OG1	2.27	0.52
46:WJ:325:GLU:O	46:WJ:329:GLN:OE1	2.28	0.52
45:WM:180:ALA:HA	46:WN:350:LYS:NZ	2.25	0.52
1:1A:63:PRO:HG3	46:MF:44:LEU:HD21	1.92	0.52
27:2C:21:LEU:HD21	45:LI:365:GLY:N	2.25	0.52
21:2L:667:ARG:HG3	45:CM:365:GLY:HA2	1.90	0.52
9:2N:8:ARG:HH21	46:IB:53:GLU:HB3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:423:ILE:HD12	34:4R:447:PHE:CD2	2.45	0.52
36:5B:67:ALA:O	36:5B:70:MET:HE3	2.10	0.52
37:5E:104:MET:HG3	37:5E:105:LYS:H	1.74	0.52
34:6R:420:ASP:OD1	34:6R:421:GLN:N	2.43	0.52
45:AC:51:THR:HG21	45:AC:243:ARG:HB3	1.92	0.52
45:AE:259:LEU:HD11	45:AE:316:SER:CB	2.40	0.52
46:AN:190:HIS:CE1	46:AN:414:ASN:HD22	2.28	0.52
45:BE:207:GLU:O	45:BE:210:TYR:HB2	2.10	0.52
45:BE:267:PHE:HD2	45:BE:388:PHE:HZ	1.57	0.52
45:BK:215:ARG:NH2	45:BK:300:ASN:OD1	2.43	0.52
45:BM:79:ARG:O	45:BM:84:ARG:HG2	2.10	0.52
46:CH:310:TYR:HE2	46:CH:367:PHE:HZ	1.56	0.52
45:CM:296:PHE:HE1	45:CM:377:MET:HG3	1.74	0.52
45:DA:141:VAL:HG11	45:DA:172:TYR:CD1	2.45	0.52
45:DA:206:ASN:OD1	47:DA:501:GTP:N2	2.43	0.52
46:DB:255:VAL:HG21	45:DC:100:ALA:O	2.10	0.52
46:DD:392:LYS:HG3	46:DD:395:LEU:HD12	1.92	0.52
45:DG:155:GLU:HA	45:DG:197:HIS:CE1	2.44	0.52
45:DI:301:MET:HG3	45:DI:303:ALA:H	1.75	0.52
46:DL:12:CYS:O	46:DL:16:ILE:HG12	2.10	0.52
45:DM:147:SER:HB2	45:DM:190:SER:OG	2.10	0.52
45:DM:184:PRO:O	45:DM:188:ILE:HG12	2.10	0.52
45:DM:336:LYS:HA	45:DM:336:LYS:HE2	1.92	0.52
46:DN:226:ASN:HD21	49:DN:501:GDP:HN1	1.57	0.52
45:EC:9:VAL:HG21	45:EC:149:LEU:HB2	1.91	0.52
46:ED:289:LEU:HD13	46:ED:365:VAL:HG23	1.92	0.52
45:EE:55:GLU:HG3	45:EE:57:GLY:H	1.75	0.52
46:EF:246:LEU:HD11	45:EG:224:TYR:HE2	1.73	0.52
45:EK:178:SER:OG	45:EK:180:ALA:O	2.27	0.52
46:FD:7:ILE:HG13	46:FD:64:ILE:HB	1.91	0.52
46:FD:21:TRP:CD1	46:FD:21:TRP:N	2.76	0.52
45:GA:68:LEU:HD13	45:GA:93:ILE:HB	1.91	0.52
45:GC:212:ILE:HD11	45:GC:300:ASN:HA	1.92	0.52
46:GD:316:LEU:HG	46:GD:352:SER:HB2	1.91	0.52
45:GE:28:HIS:HE1	45:GE:243:ARG:HH11	1.57	0.52
46:GH:293:MET:CE	46:GH:365:VAL:HG11	2.40	0.52
46:GJ:91:VAL:HG21	46:GJ:116:VAL:HB	1.92	0.52
45:GK:118:CYS:O	45:GK:122:ILE:HG12	2.09	0.52
46:GL:52:ASN:OD1	46:GL:53:GLU:N	2.43	0.52
46:GL:222:TYR:O	46:GL:226:ASN:ND2	2.33	0.52
45:GM:244:PHE:HB2	45:GM:356:ASN:HD21	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HC:419:SER:O	45:HC:423:GLU:HG2	2.09	0.52
46:HD:328:GLU:O	46:HD:332:ASN:ND2	2.43	0.52
46:HF:293:MET:HE2	46:HF:367:PHE:CD1	2.45	0.52
45:HG:69:ASP:OD1	45:HG:71:GLU:N	2.33	0.52
45:HK:2:ARG:HG3	45:HK:133:GLN:HE22	1.75	0.52
46:HL:174:LYS:HB2	46:HL:205:GLU:OE2	2.10	0.52
46:IB:262:ARG:NH1	46:IB:421:GLU:OE1	2.42	0.52
45:IC:68:LEU:HD21	45:IC:118:CYS:SG	2.50	0.52
45:IE:200:VAL:HG13	45:IE:268:MET:CE	2.40	0.52
46:JB:32:PRO:HG3	46:JB:81:PHE:CE2	2.45	0.52
46:JD:86:ARG:NH1	46:KD:281:TYR:O	2.43	0.52
46:JD:401:GLU:HG2	46:JD:401:GLU:O	2.08	0.52
45:JI:11:GLN:NE2	46:JJ:245:GLN:O	2.43	0.52
45:JI:191:THR:HA	45:JI:194:LEU:HG	1.91	0.52
46:JJ:68:LEU:HA	46:JJ:93:GLY:H	1.75	0.52
45:JM:188:ILE:HG22	45:JM:421:ALA:HB1	1.90	0.52
46:JN:296:ALA:HB1	46:JN:305:PRO:HD2	1.92	0.52
45:KA:244:PHE:HB2	45:KA:356:ASN:HD21	1.74	0.52
45:KE:377:MET:HE2	45:KE:379:SER:HB3	1.93	0.52
46:KF:267:MET:HG2	46:KF:299:MET:SD	2.50	0.52
45:KI:64:ARG:NH1	45:KI:129:CYS:SG	2.83	0.52
46:KJ:2:ARG:HB2	46:KJ:131:GLN:HG3	1.92	0.52
45:KM:265:ILE:HG22	45:KM:432:TYR:HE1	1.75	0.52
46:KN:149:THR:HA	46:KN:152:ILE:HD12	1.92	0.52
46:LH:31:ASP:OD2	46:LH:37:HIS:ND1	2.43	0.52
45:MI:183:GLU:N	45:MI:184:PRO:HD2	2.25	0.52
46:MN:390:ARG:O	46:MN:392:LYS:NZ	2.43	0.52
46:ND:44:LEU:HA	46:ND:47:ILE:HB	1.92	0.52
46:ND:105:HIS:CE1	46:ND:150:LEU:HD12	2.46	0.52
46:NF:22:GLU:HG2	46:NF:81:PHE:CD1	2.45	0.52
45:NI:181:VAL:HG12	46:NJ:256:ASN:HD22	1.75	0.52
45:NK:208:ALA:O	45:NK:212:ILE:HG12	2.09	0.52
46:NL:19:LYS:HE2	46:NL:19:LYS:HA	1.92	0.52
45:NM:11:GLN:NE2	46:NN:245:GLN:O	2.42	0.52
46:NN:97:ALA:HB3	46:NN:143:THR:HB	1.92	0.52
45:OA:226:ASN:HA	45:OA:229:ARG:HD2	1.92	0.52
46:OB:207:LEU:HD22	46:OB:228:LEU:HD11	1.92	0.52
46:OD:11:GLN:HG3	49:OD:501:GDP:O3B	2.10	0.52
46:OD:66:MET:HA	46:OD:91:VAL:O	2.10	0.52
46:OD:97:ALA:HB2	46:OD:143:THR:HB	1.92	0.52
46:OJ:289:LEU:HD13	46:OJ:365:VAL:HG13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OK:169:PHE:CE2	45:OK:235:ILE:HD12	2.44	0.52
45:OK:268:MET:HG3	45:OK:380:ASN:HB2	1.91	0.52
46:PD:245:GLN:OE1	46:PD:246:LEU:HG	2.10	0.52
46:PD:294:PHE:HE2	46:PD:333:VAL:HG11	1.75	0.52
46:PF:68:LEU:HB3	46:PF:96:GLY:HA2	1.92	0.52
45:PG:242:LEU:HD11	45:PG:252:ILE:HG12	1.92	0.52
45:PI:206:ASN:OD1	47:PI:501:GTP:N2	2.43	0.52
45:PK:104:ALA:HB2	45:PK:413:MET:HG2	1.92	0.52
46:PL:386:THR:O	46:PL:390:ARG:HG2	2.09	0.52
46:QL:133:PHE:O	46:QL:164:MET:HA	2.10	0.52
45:QM:324:VAL:HG12	45:QM:326:LYS:HG3	1.90	0.52
46:RF:117:LEU:HD21	46:RF:121:ARG:HH22	1.74	0.52
46:RL:311:LEU:O	46:RL:345:ILE:HD11	2.10	0.52
46:SB:260:PHE:HB2	46:SB:263:LEU:HD13	1.92	0.52
45:SC:229:ARG:NH2	45:SC:367:ASP:H	2.07	0.52
46:SF:324:LYS:HB2	45:SG:210:TYR:CE1	2.45	0.52
45:SG:277:SER:O	45:SG:281:ALA:N	2.43	0.52
45:SM:244:PHE:HB2	45:SM:356:ASN:HD21	1.74	0.52
46:TB:144:GLY:HA2	46:TB:147:MET:SD	2.50	0.52
45:TC:272:TYR:HD1	45:TC:376:CYS:HB3	1.75	0.52
46:TD:119:VAL:O	46:TD:122:LYS:HG3	2.10	0.52
46:TD:337:ASN:HB3	46:TD:340:TYR:HD2	1.74	0.52
45:TE:188:ILE:HG21	45:TE:422:ARG:HH22	1.74	0.52
46:TH:86:ARG:HB3	46:TH:89:ASN:OD1	2.09	0.52
45:TK:254:GLU:O	45:TK:255:PHE:HD2	1.93	0.52
46:UH:282:ARG:HE	46:UH:283:ALA:N	2.04	0.52
45:UK:332:ILE:HD11	45:UK:351:PHE:CG	2.45	0.52
45:VA:80:THR:HA	45:VA:84:ARG:HH21	1.75	0.52
45:VM:118:CYS:O	45:VM:122:ILE:HG12	2.10	0.52
45:VM:135:PHE:HB2	45:VM:166:LYS:HG2	1.91	0.52
46:VN:164:MET:SD	46:VN:197:ASP:N	2.65	0.52
46:WD:41:ASP:OD1	46:WD:42:LEU:HD12	2.10	0.52
46:WF:16:ILE:HD13	46:WF:226:ASN:OD1	2.10	0.52
46:WH:293:MET:HG2	46:WH:365:VAL:HG11	1.91	0.52
46:WJ:133:PHE:O	46:WJ:164:MET:HA	2.10	0.52
45:WK:154:LEU:HD13	45:WK:197:HIS:HB2	1.92	0.52
46:WL:381:VAL:HA	46:WL:384:GLN:HE21	1.75	0.52
45:WM:3:GLU:HB2	45:WM:64:ARG:NH2	2.25	0.52
4:0D:52:ASN:HD21	46:EB:320:ARG:NH1	2.07	0.51
24:1P:341:LEU:HD13	45:TC:364:PRO:HD3	1.91	0.51
31:2I:60:PHE:HD2	46:FH:92:PHE:HE2	1.55	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:3H:196:SER:HA	46:AH:42:LEU:HD13	1.92	0.51
40:6G:95:VAL:HG13	45:UK:96:LYS:NZ	2.24	0.51
44:8R:288:TYR:CE1	45:PC:278:ALA:HB3	2.45	0.51
46:AB:1:MET:SD	46:AB:2:ARG:N	2.82	0.51
45:AE:208:ALA:O	45:AE:212:ILE:HG12	2.09	0.51
46:AH:283:ALA:HA	46:MH:55:THR:HG23	1.92	0.51
46:AN:222:TYR:HD2	49:AN:501:GDP:C6	2.27	0.51
46:BB:20:PHE:CE1	46:BB:24:ILE:HD11	2.45	0.51
45:BG:100:ALA:HA	46:BH:252:LYS:HG2	1.92	0.51
45:BK:174:SER:HB2	45:BK:177:VAL:O	2.10	0.51
45:DA:140:SER:OG	47:DA:501:GTP:O2B	2.28	0.51
46:DJ:390:ARG:HD2	46:DJ:391:ARG:HG2	1.92	0.51
45:DK:20:CYS:HA	45:DK:232:ALA:HB1	1.90	0.51
46:EF:324:LYS:HA	46:EF:327:ASP:OD2	2.10	0.51
46:EN:294:PHE:HD2	46:EN:333:VAL:HG11	1.75	0.51
45:FA:157:LEU:HG	45:FA:161:TYR:CD2	2.45	0.51
46:FD:345:ILE:HG23	46:FD:345:ILE:O	2.10	0.51
45:FG:17:GLY:HA2	45:FG:20:CYS:SG	2.50	0.51
46:FH:221:THR:HG23	46:FH:224:ASP:H	1.75	0.51
46:FJ:5:VAL:HG12	46:FJ:62:ARG:HD3	1.92	0.51
46:FJ:273:LEU:N	46:FJ:292:GLN:HE22	2.07	0.51
46:FJ:318:ARG:HH11	46:FJ:358:PRO:HG3	1.75	0.51
45:FK:183:GLU:N	45:FK:184:PRO:HD2	2.25	0.51
45:FM:268:MET:HB2	45:FM:379:SER:O	2.09	0.51
46:FN:55:THR:OG1	46:GN:280:GLN:O	2.25	0.51
45:GK:1:MET:SD	45:GK:1:MET:N	2.82	0.51
45:GK:56:THR:HG23	45:GK:58:ALA:H	1.75	0.51
46:HD:3:GLU:OE2	46:HD:62:ARG:HD2	2.11	0.51
45:HE:118:CYS:O	45:HE:122:ILE:HG12	2.11	0.51
46:HJ:8:GLN:HE21	46:HJ:65:LEU:HG	1.75	0.51
45:HK:18:ASN:O	45:HK:22:GLU:HG3	2.10	0.51
46:HL:49:VAL:HG21	46:HL:241:ARG:HG2	1.92	0.51
45:HM:408:TYR:HD2	45:HM:418:PHE:HZ	1.58	0.51
46:HN:3:GLU:HG3	46:HN:62:ARG:NH1	2.26	0.51
46:HN:118:ASP:HB3	46:HN:122:LYS:HZ3	1.75	0.51
45:IE:399:TYR:O	45:IE:402:ARG:NH1	2.43	0.51
46:IN:286:VAL:HG21	46:IN:321:MET:HE2	1.92	0.51
46:JB:237:THR:HG23	46:JB:241:ARG:HE	1.74	0.51
45:JC:121:ARG:HE	45:JC:121:ARG:HA	1.75	0.51
45:JG:11:GLN:HG2	45:JG:74:VAL:HG11	1.92	0.51
46:JH:377:MET:O	46:JH:380:ARG:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JN:50:TYR:CE2	46:JN:241:ARG:HD3	2.44	0.51
46:JN:210:ILE:HD11	46:JN:298:ASN:HA	1.92	0.51
45:KI:11:GLN:HG2	45:KI:74:VAL:HG11	1.92	0.51
45:KM:75:ILE:O	45:KM:79:ARG:HG3	2.10	0.51
45:KM:90:GLU:N	45:KM:90:GLU:OE2	2.43	0.51
45:KM:399:TYR:O	45:KM:402:ARG:NH1	2.43	0.51
46:KN:19:LYS:HA	46:KN:22:GLU:OE1	2.10	0.51
46:KN:294:PHE:HD1	46:KN:333:VAL:HG21	1.75	0.51
46:KN:316:LEU:HB2	46:KN:366:THR:HB	1.91	0.51
46:LB:309:ARG:H	46:LB:372:THR:HG22	1.75	0.51
45:MA:371:VAL:HG12	45:MA:373:ARG:H	1.75	0.51
46:MB:107:THR:OG1	46:MB:108:GLU:OE1	2.27	0.51
45:MG:326:LYS:HE3	46:MJ:212:PHE:HB2	1.92	0.51
46:MH:5:VAL:HG12	46:MH:62:ARG:HD3	1.92	0.51
45:MI:76:ASP:OD1	45:MI:79:ARG:NH2	2.40	0.51
45:NI:31:GLN:HG2	45:NI:37:PRO:HD3	1.92	0.51
46:NN:88:ASP:N	46:NN:88:ASP:OD2	2.42	0.51
45:OA:105:ARG:HD2	46:OB:251:ARG:NH2	2.24	0.51
46:OH:175:VAL:HG22	46:OH:205:GLU:OE2	2.10	0.51
46:OH:398:TYR:O	46:OH:403:MET:HB2	2.10	0.51
45:OI:80:THR:O	45:OI:84:ARG:NH2	2.42	0.51
45:PA:70:LEU:HD11	45:PA:99:ALA:N	2.25	0.51
45:PG:23:LEU:O	45:PG:27:GLU:HG2	2.10	0.51
45:PI:278:ALA:HA	45:PI:369:ALA:HB2	1.91	0.51
46:PJ:86:ARG:HD3	46:PJ:87:PRO:HD2	1.91	0.51
46:PJ:186:THR:HA	46:PJ:189:VAL:HG12	1.91	0.51
45:PK:60:LYS:NZ	45:PK:85:GLN:O	2.27	0.51
45:QC:183:GLU:N	45:QC:184:PRO:HD2	2.25	0.51
46:QF:328:GLU:OE1	46:QF:332:ASN:ND2	2.40	0.51
45:QG:334:THR:O	45:QG:338:LYS:HE3	2.09	0.51
46:QH:318:ARG:HB2	46:QH:364:ALA:HB3	1.91	0.51
46:QJ:249:ASP:OD1	46:QJ:252:LYS:N	2.36	0.51
46:QJ:258:ILE:HD11	45:QK:407:TRP:HZ2	1.75	0.51
46:QL:318:ARG:HB3	46:QL:357:PRO:HA	1.92	0.51
46:QN:178:THR:HB	46:QN:181:GLU:HG3	1.91	0.51
46:RD:3:GLU:HG3	46:RD:62:ARG:NH1	2.25	0.51
46:RD:19:LYS:O	46:RD:22:GLU:HG3	2.11	0.51
46:RF:183:TYR:HA	46:RF:385:PHE:CE1	2.43	0.51
45:RK:20:CYS:SG	45:RK:21:TRP:HD1	2.33	0.51
46:RL:12:CYS:O	46:RL:16:ILE:HG12	2.10	0.51
46:RL:86:ARG:HB3	46:RL:88:ASP:OD1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:256:ASN:OD1	45:SC:181:VAL:HG22	2.11	0.51
45:SE:31:GLN:HB3	45:SE:33:ASP:OD1	2.10	0.51
45:SG:36:MET:HG2	45:SG:61:HIS:HE1	1.75	0.51
46:SL:166:THR:OG1	46:SL:199:CYS:SG	2.61	0.51
46:SL:383:GLU:HA	46:SL:386:THR:HG22	1.92	0.51
45:TA:76:ASP:OD1	45:TA:79:ARG:NH2	2.43	0.51
45:TA:242:LEU:HD11	45:TA:252:ILE:HG13	1.91	0.51
46:TB:238:CYS:HA	46:TB:241:ARG:NE	2.26	0.51
46:TB:423:GLN:NE2	46:TB:427:ASP:OD2	2.43	0.51
46:TF:16:ILE:HD12	46:TF:229:VAL:HG21	1.91	0.51
46:TJ:304:ASP:OD2	46:TJ:306:ARG:NH1	2.44	0.51
46:TL:42:LEU:HB3	46:TL:242:PHE:CE1	2.42	0.51
46:TL:97:ALA:HA	46:TL:103:LYS:HZ1	1.75	0.51
46:TL:114:ASP:O	46:TL:117:LEU:HG	2.10	0.51
46:TN:100:ASN:HD22	46:TN:103:LYS:HB2	1.74	0.51
46:UD:222:TYR:O	46:UD:226:ASN:ND2	2.26	0.51
45:UG:98:ASP:O	45:UG:105:ARG:NH2	2.43	0.51
45:UI:176:GLN:NE2	45:UI:207:GLU:OE2	2.43	0.51
45:VG:175:PRO:HA	45:VG:390:ARG:NH1	2.25	0.51
45:VK:208:ALA:HB2	45:VK:304:LYS:HG3	1.92	0.51
45:VK:268:MET:HB2	45:VK:379:SER:O	2.10	0.51
46:VN:114:ASP:O	46:VN:117:LEU:HG	2.09	0.51
45:WE:179:THR:HG21	46:WF:246:LEU:HD13	1.91	0.51
46:WH:318:ARG:HB3	46:WH:357:PRO:HA	1.93	0.51
45:WI:90:GLU:OE1	45:WI:121:ARG:NH2	2.43	0.51
46:WJ:48:ASN:O	46:WJ:62:ARG:NH1	2.42	0.51
45:WM:207:GLU:N	45:WM:207:GLU:OE1	2.43	0.51
46:WN:173:PRO:HD2	46:WN:380:ARG:NH1	2.24	0.51
46:WN:299:MET:CE	46:WN:305:PRO:HD3	2.40	0.51
45:DC:119:LEU:HA	45:DC:122:ILE:HG22	1.92	0.51
45:DC:210:TYR:HE1	45:DC:227:LEU:HD11	1.75	0.51
4:0D:79:GLN:NE2	46:EB:39:ASP:OD2	2.42	0.51
11:0S:253:ARG:HH12	46:AB:417:ASP:HB3	1.74	0.51
21:1L:901:LYS:H	46:CB:320:ARG:NH2	2.06	0.51
23:2O:235:MET:HG2	46:VJ:280:GLN:HG2	1.92	0.51
16:3B:59:PHE:HD2	45:LG:32:PRO:HB2	1.74	0.51
11:3S:278:ARG:HD2	46:WN:115:SER:HB2	1.91	0.51
35:4S:124:CYS:SG	35:4S:164:LYS:HD2	2.50	0.51
15:4X:3:ARG:NH2	45:LI:247:ALA:O	2.43	0.51
37:5E:63:HIS:NE2	46:OB:280:GLN:O	2.43	0.51
37:5H:46:LEU:HG	37:5H:47:GLU:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:215:LEU:HA	34:7R:218:ILE:HG13	1.90	0.51
45:AA:241:SER:OG	45:AA:250:VAL:O	2.24	0.51
45:AA:245:ASP:N	45:AA:245:ASP:OD2	2.42	0.51
45:AE:9:VAL:HG13	45:AE:139:ASN:HB3	1.93	0.51
45:AK:20:CYS:O	45:AK:24:PHE:HD2	1.93	0.51
45:AK:98:ASP:O	45:AK:105:ARG:NH1	2.44	0.51
45:AK:343:PHE:HZ	45:AK:351:PHE:HE1	1.58	0.51
46:AN:67:ASP:OD1	46:AN:69:GLU:N	2.35	0.51
46:BH:282:ARG:HG2	46:BH:283:ALA:O	2.10	0.51
46:BJ:66:MET:HA	46:BJ:91:VAL:O	2.10	0.51
46:BJ:238:CYS:SG	46:BJ:239:CYS:N	2.84	0.51
46:BL:295:ASP:OD1	46:BL:296:ALA:N	2.43	0.51
46:BN:87:PRO:HA	46:BN:90:PHE:CD2	2.43	0.51
46:CB:8:GLN:HE21	46:CB:65:LEU:HG	1.75	0.51
45:CG:326:LYS:NZ	46:CH:219:THR:HA	2.25	0.51
46:CH:8:GLN:HE21	46:CH:65:LEU:HD21	1.75	0.51
45:CI:141:VAL:HG11	45:CI:172:TYR:CD1	2.44	0.51
45:CK:141:VAL:HG22	45:CK:187:SER:HA	1.93	0.51
45:CK:212:ILE:HD13	45:CK:215:ARG:HH21	1.75	0.51
45:CK:251:ASP:HB3	45:CK:253:THR:HG22	1.92	0.51
46:CN:139:LEU:HD22	46:CN:170:VAL:HG12	1.91	0.51
46:DB:64:ILE:HG22	46:DB:66:MET:SD	2.50	0.51
46:DB:178:THR:HB	46:DB:181:GLU:HG3	1.92	0.51
45:DG:140:SER:OG	47:DG:501:GTP:O2B	2.28	0.51
45:DK:231:ILE:O	45:DK:235:ILE:HG12	2.10	0.51
45:EG:93:ILE:HG22	45:EG:114:ILE:HD11	1.91	0.51
45:EI:68:LEU:HD13	45:EI:93:ILE:HB	1.92	0.51
46:EL:296:ALA:HB2	46:EL:306:ARG:NH1	2.25	0.51
45:FC:226:ASN:O	45:FC:230:LEU:HG	2.10	0.51
46:GJ:132:GLY:HA3	46:GJ:163:ILE:HG13	1.92	0.51
45:GK:66:VAL:HG11	45:GK:122:ILE:HD11	1.91	0.51
46:HD:306:ARG:HB2	46:HD:306:ARG:NH1	2.25	0.51
45:HE:17:GLY:HA2	45:HE:20:CYS:SG	2.51	0.51
45:HE:258:ASN:CB	45:HE:352:LYS:HD2	2.39	0.51
45:HE:352:LYS:NZ	46:HH:178:THR:HA	2.26	0.51
45:HK:148:GLY:O	45:HK:151:SER:OG	2.27	0.51
45:HM:244:PHE:HB2	45:HM:356:ASN:HD21	1.75	0.51
46:IB:198:GLU:HG2	46:IB:266:PHE:CE2	2.45	0.51
45:IG:10:GLY:O	45:IG:14:ILE:HG12	2.09	0.51
46:IH:396:HIS:CD2	46:IH:397:TRP:CD1	2.98	0.51
45:II:69:ASP:OD1	45:II:70:LEU:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IJ:36:TYR:CG	46:IJ:44:LEU:HD21	2.45	0.51
46:JB:376:GLU:OE1	46:JB:380:ARG:NH1	2.34	0.51
46:JH:232:ALA:O	46:JH:236:VAL:HG23	2.10	0.51
46:JJ:186:THR:HA	46:JJ:189:VAL:HG12	1.91	0.51
46:JL:20:PHE:HA	46:JL:230:SER:OG	2.10	0.51
46:JL:211:CYS:HB3	46:JL:217:LEU:HD21	1.92	0.51
46:JN:3:GLU:HG3	46:JN:62:ARG:NH1	2.24	0.51
45:KA:175:PRO:HB3	45:KA:390:ARG:NH1	2.25	0.51
45:KG:286:LEU:HD13	45:KG:371:VAL:HG13	1.91	0.51
45:KK:141:VAL:HG21	45:KK:172:TYR:CE1	2.45	0.51
46:KN:73:MET:HA	46:KN:76:VAL:HG12	1.90	0.51
45:LA:257:THR:HG21	46:LD:98:GLY:O	2.10	0.51
46:LH:207:LEU:HB3	46:LH:225:LEU:HD22	1.90	0.51
45:LI:68:LEU:HD23	45:LI:93:ILE:HB	1.92	0.51
45:LI:113:GLU:OE1	45:LI:113:GLU:N	2.42	0.51
45:LK:326:LYS:NZ	46:LN:208:TYR:O	2.43	0.51
45:LM:155:GLU:HG3	45:LM:197:HIS:NE2	2.25	0.51
45:MA:317:MET:HG2	45:MA:377:MET:HG2	1.92	0.51
45:MA:362:VAL:HB	45:MA:370:LYS:HB3	1.92	0.51
45:MG:96:LYS:HB3	46:MH:1:MET:CE	2.41	0.51
45:MK:195:LEU:HD11	45:MK:428:LEU:HD22	1.92	0.51
45:NA:325:PRO:HB2	46:ND:208:TYR:OH	2.09	0.51
46:NJ:111:GLU:OE1	46:NJ:111:GLU:N	2.43	0.51
45:NK:118:CYS:O	45:NK:122:ILE:HG12	2.10	0.51
45:NM:387:VAL:HA	45:NM:390:ARG:HG2	1.93	0.51
46:NN:8:GLN:HE21	46:NN:14:ASN:HA	1.74	0.51
46:OD:107:THR:OG1	46:OD:108:GLU:OE1	2.22	0.51
46:OL:45:GLU:OE1	46:OL:46:ARG:HG3	2.10	0.51
46:ON:329:GLN:HA	46:ON:332:ASN:HD21	1.75	0.51
45:PA:210:TYR:CE1	45:PA:227:LEU:HD11	2.45	0.51
45:PE:2:ARG:HH21	45:PE:242:LEU:HD23	1.75	0.51
45:PE:4:VAL:HG22	45:PE:133:GLN:HB3	1.93	0.51
46:PF:54:ALA:HA	46:QD:283:ALA:HB2	1.93	0.51
45:PG:208:ALA:O	45:PG:212:ILE:HG12	2.09	0.51
45:PK:328:VAL:O	45:PK:332:ILE:HG12	2.09	0.51
46:QB:418:LEU:HD12	46:QB:421:GLU:OE1	2.10	0.51
45:QC:206:ASN:OD1	47:QC:501:GTP:N2	2.43	0.51
45:QG:68:LEU:HD21	45:QG:118:CYS:SG	2.50	0.51
45:QG:109:THR:HG22	45:QG:110:ILE:HG23	1.93	0.51
46:QH:7:ILE:HG23	46:QH:64:ILE:HD11	1.92	0.51
45:QM:244:PHE:HB2	45:QM:356:ASN:HD21	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QM:293:ASN:O	45:QM:297:GLU:HG2	2.10	0.51
46:RB:334:GLN:HA	46:RB:341:PHE:CE2	2.45	0.51
45:RC:208:ALA:O	45:RC:212:ILE:HG12	2.09	0.51
45:RE:69:ASP:OD1	45:RE:70:LEU:N	2.43	0.51
45:RE:71:GLU:HB3	45:RE:98:ASP:HB2	1.91	0.51
45:RK:141:VAL:HG11	45:RK:172:TYR:HA	1.92	0.51
46:SB:19:LYS:O	46:SB:22:GLU:HG3	2.11	0.51
46:SB:40:SER:H	46:SB:43:GLN:NE2	2.08	0.51
46:SB:287:PRO:HA	46:SB:290:THR:HG22	1.92	0.51
45:SC:69:ASP:OD1	45:SC:70:LEU:N	2.41	0.51
46:SD:135:ILE:HG13	46:SD:152:ILE:HD11	1.92	0.51
45:SE:282:TYR:OH	45:SE:370:LYS:O	2.20	0.51
46:SJ:67:ASP:OD2	46:SJ:72:THR:OG1	2.28	0.51
46:SN:273:LEU:N	46:SN:292:GLN:HE22	2.06	0.51
46:SN:309:ARG:NH2	46:SN:426:GLN:O	2.37	0.51
45:TA:53:PHE:HB3	45:TA:61:HIS:HB3	1.90	0.51
45:TA:340:THR:HG23	45:TA:341:ILE:HG13	1.91	0.51
45:TC:9:VAL:HG22	45:TC:146:GLY:HA2	1.91	0.51
46:TH:165:GLU:HG2	46:TH:198:GLU:OE1	2.10	0.51
46:TJ:6:HIS:O	46:TJ:63:ALA:HA	2.10	0.51
45:TK:118:CYS:O	45:TK:122:ILE:HG12	2.10	0.51
45:TM:141:VAL:HG11	45:TM:172:TYR:HA	1.93	0.51
46:UB:221:THR:HG23	46:UB:224:ASP:H	1.75	0.51
46:UB:282:ARG:NH2	46:UB:292:GLN:OE1	2.25	0.51
46:UD:12:CYS:O	46:UD:16:ILE:HG12	2.11	0.51
46:UD:139:LEU:HD13	46:UD:168:SER:HB3	1.92	0.51
46:UF:238:CYS:SG	46:UF:318:ARG:HD2	2.50	0.51
45:UG:188:ILE:HD11	45:UG:391:LEU:HB3	1.93	0.51
45:UG:188:ILE:HG22	45:UG:421:ALA:HB1	1.92	0.51
45:UK:184:PRO:O	45:UK:188:ILE:HG12	2.11	0.51
45:UK:285:GLN:HE22	45:UK:287:SER:CB	2.23	0.51
46:UN:58:ARG:HH22	46:UN:84:LEU:HD13	1.74	0.51
46:VB:344:TRP:CE3	46:VB:345:ILE:HG23	2.45	0.51
45:VI:121:ARG:HE	45:VI:124:LYS:HE3	1.75	0.51
46:WF:19:LYS:NZ	46:WF:227:HIS:HA	2.26	0.51
45:WI:254:GLU:HG2	46:WL:98:GLY:HA2	1.92	0.51
46:WJ:350:LYS:NZ	46:WJ:352:SER:OG	2.42	0.51
46:WL:344:TRP:CE3	46:WL:345:ILE:HG23	2.46	0.51
19:1J:263:PHE:HB2	45:II:371:VAL:HG12	1.91	0.51
4:2D:209:LYS:HA	34:5R:433:GLN:NE2	2.22	0.51
24:2P:460:GLU:OE2	46:TJ:362:LYS:HE2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:2T:132:PRO:HD3	45:MG:123:ARG:HH12	1.74	0.51
1:3A:39:TYR:CE2	45:MM:78:VAL:HA	2.45	0.51
31:3I:257:THR:HG23	45:FI:96:LYS:NZ	2.25	0.51
34:4R:497:GLN:HB3	34:4R:502:ARG:HG2	1.92	0.51
10:5Q:92:GLN:HG2	10:5Q:152:LEU:HB2	1.91	0.51
45:AE:119:LEU:HD21	45:AE:156:ARG:HB3	1.92	0.51
45:AK:55:GLU:CD	45:AK:57:GLY:H	2.13	0.51
46:AL:4:ILE:HG13	46:AL:132:GLY:O	2.10	0.51
46:BD:323:THR:HG22	46:BD:353:ILE:HD13	1.92	0.51
45:BE:210:TYR:CE1	46:BF:324:LYS:HG2	2.45	0.51
46:BJ:113:ILE:HG21	46:BJ:150:LEU:HD22	1.91	0.51
46:CB:39:ASP:OD1	46:CB:43:GLN:NE2	2.43	0.51
46:CF:345:ILE:HA	45:CG:398:MET:HE3	1.91	0.51
45:CG:136:LEU:HD13	45:CG:167:LEU:HB2	1.92	0.51
46:CL:288:GLU:HA	46:CL:291:GLN:NE2	2.26	0.51
46:DD:12:CYS:SG	46:DD:13:GLY:N	2.83	0.51
46:DD:391:ARG:HG3	45:DC:346:TRP:CD1	2.46	0.51
45:DK:202:VAL:HA	45:DK:268:MET:O	2.10	0.51
46:DL:375:GLN:NE2	46:DL:423:GLN:HB3	2.24	0.51
46:EF:150:LEU:HG	46:EF:154:LYS:HZ3	1.76	0.51
46:EF:247:ASN:OD1	45:EG:11:GLN:NE2	2.43	0.51
45:FE:51:THR:HG22	45:FE:52:PHE:CD1	2.44	0.51
46:FF:21:TRP:HA	46:FF:24:ILE:HG22	1.92	0.51
45:FG:394:LYS:NZ	46:FH:346:PRO:HG2	2.25	0.51
46:FL:342:VAL:HG13	46:FL:345:ILE:HG22	1.93	0.51
45:FM:340:THR:HG23	45:FM:341:ILE:HG13	1.91	0.51
45:GG:205:ASP:OD2	45:GG:303:ALA:HA	2.09	0.51
46:GL:289:LEU:HD13	46:GL:365:VAL:HG13	1.92	0.51
45:HA:71:GLU:OE1	45:HA:73:THR:OG1	2.16	0.51
46:HH:267:MET:HE1	46:HH:303:ALA:HB3	1.91	0.51
45:HK:221:ARG:NH1	46:HL:325:GLU:H	2.07	0.51
45:HM:31:GLN:OE1	45:HM:35:GLN:NE2	2.42	0.51
46:IB:285:THR:HB	46:IB:287:PRO:HD2	1.92	0.51
45:IC:76:ASP:OD2	46:ID:46:ARG:NH2	2.36	0.51
45:IE:147:SER:HB2	45:IE:190:SER:HB3	1.91	0.51
46:IJ:97:ALA:HB3	46:IJ:143:THR:HB	1.92	0.51
46:IJ:105:HIS:CD2	46:IJ:150:LEU:HB2	2.46	0.51
46:IJ:313:ALA:HB1	46:IJ:367:PHE:HE1	1.75	0.51
45:IM:141:VAL:HG11	45:IM:172:TYR:CD1	2.44	0.51
45:IM:322:ASP:OD1	45:IM:373:ARG:NH1	2.42	0.51
46:IN:285:THR:HB	46:IN:287:PRO:HD2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JA:8:HIS:HB2	45:JA:67:PHE:HD1	1.76	0.51
46:JB:182:PRO:HD2	46:JB:388:MET:HE1	1.92	0.51
45:JC:294:SER:HA	45:JC:297:GLU:HG2	1.93	0.51
46:JD:139:LEU:HD12	46:JD:170:VAL:HG12	1.92	0.51
45:JK:288:VAL:HG11	45:JK:327:ASP:HB3	1.93	0.51
46:JL:190:HIS:CE1	46:JL:414:ASN:HD22	2.29	0.51
45:JM:8:HIS:HB2	45:JM:67:PHE:HD1	1.76	0.51
45:JM:119:LEU:O	45:JM:123:ARG:HG2	2.09	0.51
45:JM:292:THR:OG1	45:JM:319:TYR:OH	2.25	0.51
45:JM:406:HIS:CE1	46:JN:261:PRO:HD3	2.44	0.51
46:JN:183:TYR:OH	46:JN:388:MET:O	2.28	0.51
45:KA:79:ARG:O	45:KA:84:ARG:HG2	2.10	0.51
45:KC:121:ARG:CZ	45:KC:124:LYS:HE2	2.39	0.51
45:KK:352:LYS:HD2	46:KN:177:ASP:O	2.10	0.51
45:KK:414:GLU:CD	45:KK:416:GLY:H	2.13	0.51
45:LG:88:HIS:CE1	45:LG:90:GLU:HG2	2.46	0.51
45:LG:268:MET:HB2	45:LG:379:SER:O	2.09	0.51
46:LH:157:GLU:N	46:LH:157:GLU:OE2	2.43	0.51
46:LH:285:THR:HB	46:LH:287:PRO:HD2	1.92	0.51
45:LK:181:VAL:HG12	46:LL:347:ASN:O	2.11	0.51
45:MA:319:TYR:HB3	45:MA:323:VAL:HG11	1.92	0.51
46:MJ:31:ASP:OD2	46:MJ:35:THR:N	2.33	0.51
45:NA:76:ASP:HA	45:NA:79:ARG:HH11	1.75	0.51
45:NA:176:GLN:NE2	45:NA:207:GLU:OE2	2.43	0.51
45:NC:138:PHE:HD2	45:NC:169:PHE:HB2	1.76	0.51
45:NC:208:ALA:O	45:NC:212:ILE:HG12	2.10	0.51
45:NE:88:HIS:O	45:NE:91:GLN:HG2	2.10	0.51
46:NJ:105:HIS:CE1	46:NJ:150:LEU:HD12	2.45	0.51
46:NN:218:THR:HG22	46:NN:219:THR:HG23	1.92	0.51
46:OB:116:VAL:O	46:OB:120:VAL:HG23	2.10	0.51
45:OC:275:ILE:O	45:OC:275:ILE:HG13	2.10	0.51
46:OL:324:LYS:O	46:OL:327:ASP:N	2.43	0.51
46:ON:207:LEU:HB3	46:ON:225:LEU:HD22	1.91	0.51
45:PE:88:HIS:O	45:PE:91:GLN:HG2	2.10	0.51
45:PE:208:ALA:HA	45:PE:304:LYS:NZ	2.25	0.51
46:PJ:406:MET:HE2	46:PJ:410:GLU:HG2	1.92	0.51
46:PN:178:THR:HB	46:PN:181:GLU:OE2	2.11	0.51
45:QA:108:TYR:HA	45:QA:112:LYS:HE3	1.92	0.51
46:QB:73:MET:HA	46:QB:76:VAL:HG12	1.92	0.51
45:QE:288:VAL:HG21	45:QE:327:ASP:HB3	1.93	0.51
46:QF:286:VAL:HG12	46:QF:329:GLN:OE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QK:252:ILE:HA	45:QK:255:PHE:CE2	2.46	0.51
46:RB:271:ALA:HB3	46:RB:365:VAL:HB	1.92	0.51
46:RL:68:LEU:HB3	46:RL:96:GLY:HA2	1.93	0.51
46:SB:238:CYS:HA	46:SB:241:ARG:HH11	1.75	0.51
46:SB:372:THR:HG21	46:SB:426:GLN:HB2	1.92	0.51
45:SE:326:LYS:HE2	46:SF:212:PHE:CZ	2.46	0.51
46:SF:322:SER:HB3	45:SG:221:ARG:HB2	1.92	0.51
45:SG:176:GLN:OE1	45:SG:176:GLN:N	2.43	0.51
45:SI:115:VAL:HG21	45:SI:152:LEU:HD22	1.92	0.51
46:SL:316:LEU:HD13	46:SL:352:SER:HB3	1.92	0.51
46:TJ:119:VAL:O	46:TJ:122:LYS:HG3	2.11	0.51
46:TL:54:ALA:HB3	46:TL:58:ARG:HG2	1.93	0.51
45:UE:252:ILE:HA	45:UE:255:PHE:CE1	2.46	0.51
46:UF:256:ASN:HD22	45:UG:181:VAL:HG22	1.75	0.51
45:UI:287:SER:O	45:UI:291:ILE:HG12	2.10	0.51
46:UJ:2:ARG:HG3	46:UJ:2:ARG:HH11	1.75	0.51
45:UK:71:GLU:OE2	45:UK:73:THR:HG23	2.10	0.51
45:UM:215:ARG:NH2	45:UM:299:ALA:O	2.40	0.51
45:VE:209:ILE:HA	45:VE:212:ILE:HG22	1.92	0.51
45:VG:319:TYR:HB3	45:VG:323:VAL:HG11	1.93	0.51
45:VG:320:ARG:HH12	45:VG:360:PRO:CA	2.17	0.51
46:VJ:282:ARG:NH2	46:VJ:288:GLU:OE1	2.43	0.51
46:VL:77:ARG:HH11	46:VL:90:PHE:HZ	1.58	0.51
46:VL:313:ALA:HB1	46:VL:367:PHE:HE1	1.75	0.51
46:WD:6:HIS:O	46:WD:63:ALA:HA	2.10	0.51
46:WF:6:HIS:HD2	46:WF:21:TRP:HE1	1.57	0.51
46:WH:282:ARG:NE	46:WH:288:GLU:OE1	2.37	0.51
7:1G:168:PHE:CE2	46:KD:70:PRO:HB2	2.45	0.51
18:1I:195:PHE:CE1	15:4X:137:GLN:HB3	2.46	0.51
19:1J:342:LYS:HZ3	46:IN:276:ARG:NE	2.08	0.51
25:1R:347:LYS:HB3	45:CC:39:ASP:OD1	2.10	0.51
14:1V:141:ASN:ND2	45:LK:402:ARG:O	2.42	0.51
1:2A:55:PRO:HG2	45:MI:79:ARG:HD2	1.93	0.51
25:3R:143:ASN:OD1	46:BN:218:THR:OG1	2.18	0.51
27:4C:4:TYR:HB2	46:LN:359:LYS:HE2	1.92	0.51
35:4S:63:ASN:OD1	35:4S:65:PHE:N	2.41	0.51
35:4S:169:VAL:HA	35:4S:175:ILE:HD11	1.91	0.51
36:5A:127:GLU:OE2	36:5A:131:ARG:HD2	2.11	0.51
37:5F:165:PRO:HD2	37:5F:166:ARG:HH11	1.75	0.51
34:5R:431:ILE:HG21	34:5R:495:ILE:HD12	1.93	0.51
42:8L:60:UNK:O	46:SL:276:ARG:NH2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AG:184:PRO:O	45:AG:188:ILE:HG12	2.10	0.51
45:AI:68:LEU:HD21	45:AI:118:CYS:SG	2.50	0.51
46:AL:226:ASN:HD21	49:AL:501:GDP:HN1	1.58	0.51
46:BB:164:MET:HB2	46:BB:197:ASP:H	1.74	0.51
45:BK:230:LEU:O	45:BK:234:VAL:HG23	2.11	0.51
46:CB:9:GLY:HA2	46:CB:66:MET:O	2.11	0.51
46:CB:190:HIS:CE1	46:CB:414:ASN:HD22	2.27	0.51
46:CB:209:ASP:O	46:CB:213:ARG:HD3	2.10	0.51
46:CH:208:TYR:CE1	46:CH:225:LEU:HD11	2.46	0.51
46:CJ:67:ASP:O	46:CJ:92:PHE:HA	2.08	0.51
45:CM:88:HIS:CG	45:DM:280:LYS:HE2	2.46	0.51
46:DJ:218:THR:HG23	46:DJ:219:THR:HG23	1.91	0.51
46:EH:420:SER:O	46:EH:424:GLN:HG2	2.09	0.51
45:EI:52:PHE:HZ	45:EI:239:THR:HG21	1.75	0.51
46:EN:208:TYR:CZ	46:EN:225:LEU:HD11	2.45	0.51
46:EN:330:MET:SD	46:EN:351:SER:OG	2.68	0.51
45:FM:272:TYR:CD1	45:FM:376:CYS:HB2	2.44	0.51
45:GE:74:VAL:HA	45:GE:77:GLU:HG2	1.92	0.51
45:GE:210:TYR:HE1	45:GE:227:LEU:HD11	1.75	0.51
46:GF:139:LEU:HD13	46:GF:168:SER:HB3	1.91	0.51
46:GJ:86:ARG:NH1	46:HJ:281:TYR:HE2	2.08	0.51
45:GM:167:LEU:HG	45:GM:200:VAL:HB	1.93	0.51
46:HJ:190:HIS:CD2	46:HJ:411:ALA:HA	2.45	0.51
45:IE:3:GLU:OE2	45:IE:131:GLY:N	2.42	0.51
45:IG:75:ILE:HG22	45:IG:79:ARG:HE	1.73	0.51
45:IK:326:LYS:HZ3	46:IN:220:PRO:HD2	1.75	0.51
46:IL:10:GLY:O	46:IL:14:ASN:ND2	2.43	0.51
46:IL:139:LEU:HD13	46:IL:168:SER:HB3	1.92	0.51
46:JN:256:ASN:HD21	46:JN:350:LYS:HE3	1.75	0.51
45:KC:26:LEU:HD13	45:KC:363:VAL:HG23	1.92	0.51
45:KE:64:ARG:NH1	45:KE:129:CYS:SG	2.83	0.51
45:KE:71:GLU:OE2	46:KF:2:ARG:NH2	2.44	0.51
45:KG:136:LEU:HD23	45:KG:167:LEU:HB2	1.93	0.51
45:KM:210:TYR:HB3	46:KN:324:LYS:HE3	1.92	0.51
46:LB:172:SER:OG	46:LB:205:GLU:OE1	2.27	0.51
46:MD:63:ALA:O	46:MD:89:ASN:ND2	2.40	0.51
46:MF:11:GLN:NE2	49:MF:501:GDP:O1A	2.29	0.51
46:MF:11:GLN:HB3	46:MF:72:THR:HG21	1.92	0.51
45:MG:282:TYR:HE1	45:MG:371:VAL:HG12	1.75	0.51
46:MJ:91:VAL:HG21	46:MJ:116:VAL:HB	1.93	0.51
45:MK:105:ARG:NH1	46:ML:251:ARG:HE	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NI:259:LEU:HD21	45:NI:316:SER:HB3	1.93	0.51
45:NI:322:ASP:OD1	45:NI:373:ARG:NH1	2.42	0.51
46:OH:253:LEU:O	46:OH:257:LEU:HB2	2.09	0.51
45:OI:345:ASP:OD2	45:OI:346:TRP:N	2.43	0.51
46:OJ:18:ALA:HB3	46:OJ:19:LYS:NZ	2.25	0.51
45:OM:208:ALA:O	45:OM:212:ILE:HG12	2.09	0.51
46:PF:293:MET:HG2	46:PF:365:VAL:HG11	1.93	0.51
45:PG:17:GLY:HA2	45:PG:20:CYS:SG	2.51	0.51
45:PI:90:GLU:H	45:QI:280:LYS:NZ	2.08	0.51
45:PM:88:HIS:O	45:PM:91:GLN:HG3	2.10	0.51
46:PN:58:ARG:NH1	46:PN:60:VAL:HG12	2.26	0.51
46:QB:24:ILE:O	46:QB:27:GLU:HG2	2.11	0.51
46:QD:12:CYS:O	46:QD:16:ILE:HG12	2.10	0.51
46:QD:299:MET:HE1	46:QD:305:PRO:HG3	1.93	0.51
46:QH:16:ILE:HD13	46:QH:226:ASN:OD1	2.10	0.51
46:QJ:221:THR:HG23	46:QJ:224:ASP:H	1.75	0.51
46:QL:209:ASP:OD1	46:QL:213:ARG:NE	2.42	0.51
46:QN:221:THR:HG23	46:QN:224:ASP:H	1.75	0.51
45:RE:205:ASP:OD2	45:RE:303:ALA:HA	2.11	0.51
46:RJ:327:ASP:OD1	46:RJ:328:GLU:N	2.43	0.51
46:SB:268:ILE:HG13	46:SB:300:MET:SD	2.50	0.51
45:SE:98:ASP:O	45:SE:105:ARG:NH1	2.44	0.51
46:SH:70:PRO:HB3	46:SH:73:MET:HE3	1.92	0.51
45:SI:90:GLU:HG3	45:SI:121:ARG:HH22	1.76	0.51
46:SJ:200:MET:CE	46:SJ:268:ILE:HG12	2.39	0.51
46:SJ:342:VAL:HG13	46:SJ:345:ILE:HG22	1.93	0.51
46:SL:309:ARG:NH2	46:SL:426:GLN:O	2.31	0.51
46:SL:374:ILE:HG12	46:SL:422:TYR:OH	2.10	0.51
46:SN:282:ARG:NH2	46:SN:292:GLN:OE1	2.39	0.51
46:TB:21:TRP:CZ3	46:TB:61:PRO:HB3	2.45	0.51
45:TE:68:LEU:HD21	45:TE:118:CYS:SG	2.50	0.51
45:TI:56:THR:HG23	45:TI:58:ALA:H	1.75	0.51
45:TI:82:THR:HG23	45:TI:83:TYR:CD2	2.46	0.51
45:TI:176:GLN:OE1	45:TI:176:GLN:N	2.44	0.51
45:TK:260:VAL:HB	46:TL:397:TRP:CZ2	2.39	0.51
46:TL:139:LEU:HD13	46:TL:168:SER:HB3	1.93	0.51
46:UF:226:ASN:HA	46:UF:229:VAL:HG12	1.93	0.51
46:UF:321:MET:HE3	45:UG:221:ARG:HH11	1.76	0.51
45:UI:352:LYS:HE3	46:UJ:179:VAL:HG13	1.92	0.51
46:UN:289:LEU:HD23	46:UN:292:GLN:HE21	1.76	0.51
45:VA:141:VAL:HG11	45:VA:172:TYR:HD1	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VH:226:ASN:HA	46:VH:229:VAL:HG12	1.93	0.51
46:VJ:342:VAL:HG13	46:VJ:345:ILE:HG22	1.93	0.51
45:VK:64:ARG:NH2	45:VK:129:CYS:SG	2.70	0.51
45:VK:178:SER:HB3	46:VL:347:ASN:ND2	2.26	0.51
46:VN:201:VAL:O	46:VN:202:ILE:HD13	2.10	0.51
46:VN:385:PHE:HE2	46:VN:412:GLU:HB2	1.75	0.51
46:WB:147:MET:HA	46:WB:150:LEU:HG	1.92	0.51
45:WE:67:PHE:HB2	45:WE:92:LEU:HD13	1.92	0.51
46:WH:204:ASN:OD1	46:WH:205:GLU:N	2.44	0.51
45:WK:205:ASP:OD1	45:WK:303:ALA:HA	2.11	0.51
45:WM:120:ASP:HA	45:WM:123:ARG:HG2	1.92	0.51
45:CE:183:GLU:N	45:CE:184:PRO:HD2	2.26	0.51
6:OF:48:HIS:HB3	46:ED:320:ARG:NH1	2.25	0.51
19:1J:111:TYR:HB3	46:HF:53:GLU:OE1	2.11	0.51
36:5C:141:SER:HB3	36:5C:144:LYS:HD2	1.93	0.51
37:5F:46:LEU:HG	37:5F:47:GLU:H	1.75	0.51
37:5F:142:TYR:HE2	46:OH:276:ARG:HB2	1.75	0.51
37:5G:17:ASN:HB2	37:5G:21:LEU:HD12	1.92	0.51
34:5R:381:PHE:CD2	46:DJ:32:PRO:HD2	2.46	0.51
40:6G:276:PRO:HG3	45:UC:113:GLU:O	2.10	0.51
34:7R:97:CYS:HB3	34:7R:180:ILE:HD13	1.92	0.51
34:7R:242:ASN:ND2	45:CA:285:GLN:O	2.40	0.51
46:AF:213:ARG:NH2	46:AF:297:LYS:HE3	2.26	0.51
45:AG:68:LEU:HD13	45:AG:93:ILE:HB	1.93	0.51
45:AI:205:ASP:OD1	45:AI:303:ALA:HA	2.10	0.51
45:BA:205:ASP:OD1	45:BA:303:ALA:HA	2.09	0.51
45:BK:223:THR:HG23	45:BK:225:THR:H	1.76	0.51
46:BL:285:THR:HB	46:BL:287:PRO:HD2	1.93	0.51
45:BM:210:TYR:CE1	46:BN:324:LYS:HG2	2.44	0.51
46:BN:210:ILE:O	46:BN:214:THR:OG1	2.22	0.51
45:CA:328:VAL:HG11	45:CA:353:VAL:HG21	1.92	0.51
46:CH:372:THR:O	46:CH:375:GLN:NE2	2.44	0.51
45:CM:121:ARG:HH21	45:CM:124:LYS:HD3	1.75	0.51
45:CM:231:ILE:O	45:CM:235:ILE:HG12	2.11	0.51
46:DD:87:PRO:HA	46:DD:90:PHE:HD2	1.75	0.51
45:DE:184:PRO:O	45:DE:188:ILE:HG12	2.10	0.51
45:DG:183:GLU:N	45:DG:184:PRO:HD2	2.26	0.51
46:DJ:174:LYS:HD2	46:DJ:205:GLU:CD	2.31	0.51
45:DK:30:ILE:HD12	45:DK:36:MET:HA	1.92	0.51
46:EB:249:ASP:OD1	46:EB:252:LYS:N	2.38	0.51
45:EC:141:VAL:HG22	45:EC:187:SER:HA	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:98:ASP:OD2	45:EE:99:ALA:N	2.43	0.51
46:EJ:158:GLU:HG3	46:EJ:159:TYR:CD1	2.46	0.51
45:EK:174:SER:HB2	45:EK:177:VAL:O	2.10	0.51
45:FA:71:GLU:OE2	45:FA:73:THR:HG23	2.11	0.51
45:FC:322:ASP:OD1	45:FC:373:ARG:NH1	2.43	0.51
45:FG:390:ARG:HG3	45:FG:391:LEU:HD12	1.92	0.51
45:GA:259:LEU:HD21	45:GA:378:ILE:HG23	1.93	0.51
46:GD:97:ALA:HA	46:GD:103:LYS:HE3	1.91	0.51
46:GD:204:ASN:HB3	46:GD:208:TYR:HE2	1.74	0.51
45:GM:224:TYR:HE2	46:GN:246:LEU:HD11	1.74	0.51
46:GN:309:ARG:NH2	46:GN:426:GLN:O	2.39	0.51
45:HA:384:ILE:O	45:HA:387:VAL:HG22	2.11	0.51
46:HD:167:PHE:CE2	46:HD:200:MET:HG3	2.46	0.51
45:HE:102:ASN:OD1	45:HE:105:ARG:N	2.43	0.51
45:HE:137:VAL:HG23	45:HE:168:GLY:HA2	1.93	0.51
45:HE:164:LYS:O	45:HE:166:LYS:NZ	2.44	0.51
45:HG:167:LEU:HD23	45:HG:200:VAL:HB	1.93	0.51
45:HI:118:CYS:O	45:HI:122:ILE:HG12	2.10	0.51
45:HM:88:HIS:ND1	45:HM:89:PRO:HD2	2.25	0.51
46:HN:409:THR:O	46:HN:412:GLU:HG3	2.10	0.51
46:IH:333:VAL:HA	46:IH:336:LYS:HG2	1.92	0.51
45:IK:85:GLN:O	46:JL:281:TYR:OH	2.28	0.51
45:IM:426:ALA:HB1	45:IM:430:LYS:NZ	2.24	0.51
46:IN:178:THR:HB	46:IN:181:GLU:OE2	2.10	0.51
45:JA:184:PRO:O	45:JA:188:ILE:HD12	2.10	0.51
46:JB:246:LEU:HB2	46:JB:353:ILE:HG22	1.92	0.51
45:JE:36:MET:HG3	45:JE:37:PRO:CD	2.41	0.51
46:JF:105:HIS:CD2	46:JF:150:LEU:HB2	2.45	0.51
45:JI:98:ASP:OD1	45:JI:99:ALA:N	2.43	0.51
45:JK:118:CYS:O	45:JK:122:ILE:HG12	2.10	0.51
45:KA:72:PRO:HD2	46:KB:2:ARG:HH21	1.75	0.51
45:KK:255:PHE:O	45:KK:259:LEU:HB2	2.11	0.51
45:KM:407:TRP:HZ2	46:KN:258:ILE:HD11	1.76	0.51
46:LH:107:THR:OG1	46:LH:108:GLU:OE2	2.28	0.51
46:LL:73:MET:HG3	46:LL:77:ARG:NH2	2.26	0.51
45:MA:188:ILE:HD12	45:MA:425:LEU:HD11	1.92	0.51
46:MF:239:CYS:HB3	46:MF:354:CYS:HB2	1.93	0.51
45:NE:132:LEU:HB3	45:NE:164:LYS:NZ	2.25	0.51
46:NJ:154:LYS:O	46:NJ:157:GLU:HG3	2.10	0.51
46:NJ:345:ILE:HG23	46:NJ:348:ASN:HD22	1.75	0.51
46:NL:128:ASP:OD1	46:NL:129:CYS:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OA:31:GLN:OE1	45:OA:37:PRO:HG3	2.10	0.51
45:OA:102:ASN:HB3	46:OB:251:ARG:HH22	1.76	0.51
46:OF:65:LEU:HD22	46:OF:90:PHE:CE2	2.46	0.51
46:OJ:286:VAL:HG11	46:OJ:326:VAL:HG22	1.93	0.51
45:OK:427:ALA:O	45:OK:430:LYS:HG3	2.10	0.51
45:PC:90:GLU:O	45:PC:121:ARG:NH1	2.43	0.51
45:PI:242:LEU:HD11	45:PI:252:ILE:HG12	1.92	0.51
45:PI:346:TRP:CD1	46:PL:391:ARG:HG3	2.45	0.51
45:PK:384:ILE:O	45:PK:387:VAL:HG12	2.10	0.51
46:PL:189:VAL:HG22	46:PL:415:MET:HE3	1.92	0.51
46:PL:375:GLN:C	46:PL:379:LYS:HZ2	2.14	0.51
45:PM:5:ILE:HD11	45:PM:135:PHE:CE1	2.45	0.51
45:QC:377:MET:SD	45:QC:379:SER:HB2	2.50	0.51
46:QF:284:LEU:HD11	46:QF:362:LYS:HG3	1.93	0.51
46:QH:346:PRO:O	45:QI:394:LYS:NZ	2.40	0.51
45:QI:211:ASP:OD2	45:QI:215:ARG:NH1	2.43	0.51
46:RD:215:LEU:HD21	46:RD:273:LEU:HD12	1.91	0.51
45:RG:247:ALA:HB3	45:RG:355:ILE:HD11	1.93	0.51
46:SD:139:LEU:HD22	46:SD:170:VAL:HG22	1.93	0.51
46:SJ:298:ASN:ND2	46:SJ:298:ASN:O	2.43	0.51
46:SJ:372:THR:HA	46:SJ:422:TYR:HE2	1.76	0.51
45:SK:141:VAL:HG12	45:SK:171:ILE:O	2.11	0.51
46:SN:3:GLU:HG3	46:SN:62:ARG:NH1	2.25	0.51
46:SN:42:LEU:HA	46:SN:45:GLU:HG3	1.91	0.51
45:TA:135:PHE:HB2	45:TA:166:LYS:HG2	1.93	0.51
46:TB:317:PHE:CE2	46:TB:326:VAL:HG13	2.45	0.51
45:TC:265:ILE:O	45:TC:265:ILE:HG13	2.11	0.51
46:TF:345:ILE:O	46:TF:345:ILE:HG13	2.11	0.51
45:TK:11:GLN:NE2	47:TK:501:GTP:O3A	2.43	0.51
45:TM:328:VAL:HG11	45:TM:353:VAL:HG21	1.93	0.51
46:TN:237:THR:HG23	46:TN:241:ARG:HH21	1.75	0.51
45:UA:108:TYR:HA	45:UA:112:LYS:HE3	1.93	0.51
46:UB:190:HIS:NE2	46:UB:415:MET:HG2	2.25	0.51
46:UB:324:LYS:CE	45:UC:222:PRO:HD2	2.41	0.51
45:UC:70:LEU:HD13	45:UC:95:GLY:HA3	1.93	0.51
46:UD:273:LEU:H	46:UD:292:GLN:NE2	2.06	0.51
45:UI:188:ILE:HD12	45:UI:425:LEU:HD11	1.91	0.51
45:UI:254:GLU:HA	45:UI:257:THR:HG22	1.92	0.51
45:UI:287:SER:O	45:UI:290:GLU:HG2	2.10	0.51
46:UJ:322:SER:H	45:UK:221:ARG:NH1	2.08	0.51
46:UJ:322:SER:H	45:UK:221:ARG:CZ	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UK:350:GLY:HA2	46:UL:179:VAL:HG12	1.92	0.51
45:VA:338:LYS:NZ	45:VA:341:ILE:HG13	2.26	0.51
46:VB:114:ASP:OD1	46:VB:115:SER:N	2.42	0.51
46:VD:109:GLY:HA2	46:VD:147:MET:HE2	1.92	0.51
45:VE:429:GLU:OE2	45:VE:430:LYS:HE3	2.11	0.51
46:VH:99:ASN:HD22	46:VH:142:GLY:H	1.57	0.51
46:VH:372:THR:HG21	46:VH:426:GLN:HB2	1.92	0.51
45:VI:3:GLU:HG3	45:VI:129:CYS:SG	2.51	0.51
46:VJ:165:GLU:OE2	46:VJ:250:LEU:HD11	2.09	0.51
46:VN:204:ASN:OD1	46:VN:205:GLU:N	2.44	0.51
46:WJ:186:THR:HA	46:WJ:189:VAL:HG12	1.91	0.51
45:WK:73:THR:HG22	46:WL:46:ARG:HH12	1.76	0.51
45:WK:180:ALA:HA	46:WL:350:LYS:HE2	1.93	0.51
46:WN:116:VAL:HA	46:WN:119:VAL:HG12	1.93	0.51
45:DC:183:GLU:N	45:DC:184:PRO:HD2	2.26	0.51
4:1D:99:ARG:HH22	45:EG:364:PRO:HA	1.76	0.51
8:1H:303:GLU:OE2	45:HC:282:TYR:CZ	2.64	0.51
18:1I:94:GLY:HA3	45:JC:82:THR:HG21	1.91	0.51
20:1K:42:GLU:OE1	46:KF:213:ARG:HA	2.11	0.51
20:1K:186:LEU:HD22	46:GD:362:LYS:HZ1	1.75	0.51
24:1P:392:LYS:HD2	45:TA:282:TYR:CE1	2.44	0.51
27:2C:25:LYS:HD3	45:LI:364:PRO:HB3	1.93	0.51
10:2Q:100:ARG:HH12	45:AE:434:GLU:HG2	1.76	0.51
14:3V:69:SER:OG	46:MB:336:LYS:HB3	2.10	0.51
35:5S:64:LEU:HB3	35:5S:107:GLU:HG2	1.92	0.51
46:AB:190:HIS:CD2	46:AB:411:ALA:HA	2.46	0.51
46:AH:5:VAL:HG12	46:AH:62:ARG:HD3	1.91	0.51
46:AJ:87:PRO:HA	46:AJ:90:PHE:HD2	1.76	0.51
46:AL:152:ILE:HD12	46:AL:164:MET:HE1	1.93	0.51
45:AM:320:ARG:NH2	45:AM:358:GLN:OE1	2.44	0.51
46:AN:268:ILE:O	46:AN:300:MET:HB2	2.11	0.51
45:BC:387:VAL:O	45:BC:390:ARG:HG2	2.11	0.51
46:BH:52:ASN:OD1	46:BH:62:ARG:NH2	2.38	0.51
45:BK:2:ARG:HB3	45:BK:133:GLN:HE22	1.76	0.51
46:CD:258:ILE:O	46:CD:258:ILE:HG13	2.10	0.51
46:CH:326:VAL:O	46:CH:330:MET:HG2	2.10	0.51
45:CI:117:LEU:O	45:CI:121:ARG:HG2	2.11	0.51
46:DD:19:LYS:O	46:DD:22:GLU:HG3	2.10	0.51
46:DD:148:GLY:O	46:DD:152:ILE:HG13	2.10	0.51
46:DD:166:THR:OG1	46:DD:199:CYS:SG	2.67	0.51
46:DF:67:ASP:OD1	46:DF:68:LEU:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:344:TRP:HB3	46:DF:430:ALA:HB2	1.92	0.51
45:DI:318:MET:HB2	45:DI:376:CYS:SG	2.50	0.51
45:DM:288:VAL:HA	45:DM:291:ILE:HG12	1.92	0.51
46:EB:298:ASN:ND2	46:EB:298:ASN:O	2.42	0.51
45:EC:55:GLU:HG3	45:EC:57:GLY:H	1.74	0.51
46:EN:31:ASP:OD2	46:EN:37:HIS:ND1	2.43	0.51
46:EN:45:GLU:HG3	46:EN:46:ARG:HG2	1.93	0.51
46:FB:207:LEU:HD13	46:FB:225:LEU:HB3	1.92	0.51
46:FB:262:ARG:NH1	46:FB:421:GLU:OE1	2.41	0.51
46:FB:342:VAL:HG13	46:FB:345:ILE:HG22	1.93	0.51
46:FF:21:TRP:CZ3	46:FF:61:PRO:HB3	2.46	0.51
46:FF:318:ARG:HB3	46:FF:357:PRO:HA	1.93	0.51
46:FH:362:LYS:HE2	46:FH:362:LYS:HA	1.92	0.51
46:GB:116:VAL:HA	46:GB:119:VAL:HG12	1.93	0.51
45:GG:221:ARG:NH1	46:GH:322:SER:H	2.08	0.51
46:GJ:350:LYS:NZ	46:GJ:352:SER:OG	2.44	0.51
45:HE:7:ILE:HB	45:HE:137:VAL:HG12	1.93	0.51
46:HF:131:GLN:O	46:HF:163:ILE:HG12	2.11	0.51
46:HH:16:ILE:HD12	46:HH:229:VAL:HG11	1.92	0.51
46:HJ:232:ALA:HB1	46:HJ:268:ILE:HD12	1.92	0.51
45:HK:210:TYR:CD1	46:HL:324:LYS:HD3	2.45	0.51
45:HK:328:VAL:O	45:HK:332:ILE:HG12	2.11	0.51
46:IB:67:ASP:O	46:IB:92:PHE:HA	2.11	0.51
46:IF:254:ALA:O	46:IF:258:ILE:HG22	2.11	0.51
45:II:107:HIS:O	45:II:107:HIS:ND1	2.44	0.51
45:JE:393:HIS:O	45:JE:397:LEU:HD23	2.10	0.51
45:JG:174:SER:HB2	45:JG:177:VAL:O	2.11	0.51
45:JG:210:TYR:CE1	45:JG:227:LEU:HD21	2.45	0.51
45:JK:213:CYS:SG	45:JK:222:PRO:HG3	2.51	0.51
46:KB:16:ILE:HD12	46:KB:229:VAL:HG21	1.93	0.51
46:KD:128:ASP:OD1	46:KD:129:CYS:N	2.43	0.51
45:KE:325:PRO:HA	45:KE:328:VAL:HG22	1.93	0.51
45:KG:9:VAL:HG23	45:KG:139:ASN:HB3	1.92	0.51
45:KK:208:ALA:O	45:KK:212:ILE:HG12	2.09	0.51
45:KK:326:LYS:NZ	46:KN:220:PRO:O	2.43	0.51
46:KL:41:ASP:O	46:KL:45:GLU:HG2	2.11	0.51
46:KL:101:TRP:HD1	46:KL:145:SER:HG	1.57	0.51
46:KN:169:VAL:HG23	46:KN:169:VAL:O	2.10	0.51
45:MA:414:GLU:CD	45:MA:416:GLY:H	2.13	0.51
46:MB:105:HIS:CE1	46:MB:150:LEU:HD12	2.45	0.51
46:MB:267:MET:HB2	46:MB:299:MET:HE2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MF:132:GLY:HA3	46:MF:163:ILE:HG22	1.92	0.51
46:MF:139:LEU:HD13	46:MF:168:SER:HB3	1.92	0.51
45:MM:11:GLN:NE2	45:MM:71:GLU:OE2	2.36	0.51
46:NB:257:LEU:HD11	46:NB:314:SER:HB3	1.92	0.51
46:NH:325:GLU:HA	46:NH:328:GLU:HG3	1.93	0.51
45:OC:5:ILE:HD11	45:OC:135:PHE:CE2	2.45	0.51
45:OC:71:GLU:HG2	45:OC:98:ASP:HB3	1.91	0.51
46:OD:217:LEU:HG	46:OD:276:ARG:HH12	1.75	0.51
45:OE:298:PRO:HG3	45:OE:308:ARG:NH2	2.26	0.51
45:OE:399:TYR:OH	45:OE:415:GLU:OE2	2.27	0.51
46:OF:372:THR:HG21	46:OF:426:GLN:HG3	1.92	0.51
46:OL:130:LEU:O	46:OL:162:ARG:NE	2.40	0.51
45:OM:189:LEU:HD11	45:OM:418:PHE:HE1	1.76	0.51
45:PC:210:TYR:CE1	45:PC:227:LEU:HD21	2.45	0.51
46:PF:167:PHE:CZ	46:PF:200:MET:HG3	2.45	0.51
45:PG:331:SER:O	45:PG:335:ILE:HG12	2.11	0.51
46:PH:153:SER:HB3	46:PH:154:LYS:HZ2	1.75	0.51
45:PI:21:TRP:CZ2	45:PI:65:ALA:HB2	2.45	0.51
46:PJ:68:LEU:HD12	46:PJ:93:GLY:HA3	1.92	0.51
46:PL:238:CYS:SG	46:PL:239:CYS:N	2.83	0.51
46:PL:247:ASN:O	46:PL:252:LYS:NZ	2.32	0.51
46:PN:210:ILE:O	46:PN:214:THR:HG22	2.10	0.51
45:QE:52:PHE:HZ	45:QE:239:THR:HG21	1.74	0.51
46:QF:344:TRP:HB3	46:QF:430:ALA:HB2	1.92	0.51
45:QG:217:LEU:HD22	45:QG:367:ASP:HB3	1.92	0.51
46:QH:252:LYS:HZ1	47:QI:501:GTP:PG	2.33	0.51
46:QL:362:LYS:HD2	46:QL:363:MET:HG2	1.93	0.51
45:RC:104:ALA:HB2	45:RC:413:MET:SD	2.50	0.51
45:RG:229:ARG:NH1	45:RG:366:GLY:HA2	2.26	0.51
45:RG:255:PHE:HA	45:RG:259:LEU:HD23	1.92	0.51
46:RH:289:LEU:HD13	46:RH:365:VAL:HG23	1.93	0.51
46:SD:332:ASN:HA	46:SD:335:ASN:ND2	2.25	0.51
46:SF:309:ARG:H	46:SF:372:THR:HG22	1.75	0.51
45:SG:141:VAL:HG12	45:SG:171:ILE:O	2.10	0.51
46:SL:73:MET:HA	46:SL:76:VAL:HG22	1.92	0.51
46:TH:161:ASP:O	46:TH:251:ARG:NH2	2.42	0.51
45:TK:28:HIS:NE2	45:TK:49:PHE:HB3	2.25	0.51
46:UB:208:TYR:CE1	46:UB:225:LEU:HD11	2.45	0.51
45:UC:3:GLU:OE2	45:UC:131:GLY:N	2.43	0.51
45:UC:223:THR:HG23	45:UC:225:THR:H	1.75	0.51
45:UE:250:VAL:HG13	45:UE:254:GLU:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UK:2:ARG:O	45:UK:51:THR:HA	2.10	0.51
46:UN:20:PHE:O	46:UN:24:ILE:HG12	2.11	0.51
46:UN:190:HIS:CE1	46:UN:414:ASN:HD22	2.28	0.51
46:UN:293:MET:SD	46:UN:365:VAL:HG11	2.50	0.51
45:VA:326:LYS:HG3	45:VA:327:ASP:N	2.25	0.51
45:VG:140:SER:OG	47:VG:501:GTP:O2B	2.27	0.51
46:VL:105:HIS:CE1	46:VL:150:LEU:HD12	2.45	0.51
46:VL:117:LEU:HA	46:VL:120:VAL:HG12	1.92	0.51
46:VL:186:THR:HA	46:VL:189:VAL:HG12	1.90	0.51
45:WC:346:TRP:CD1	46:WF:391:ARG:HG3	2.46	0.51
45:DC:259:LEU:HD21	45:DC:316:SER:HB2	1.91	0.51
21:1L:41:LYS:NZ	46:BJ:40:SER:HA	2.25	0.51
24:1P:302:LYS:HZ2	46:TD:362:LYS:HE2	1.76	0.51
22:2M:17:ALA:HB2	45:JG:282:TYR:CE1	2.45	0.51
12:2T:147:PHE:CZ	46:MJ:106:TYR:HB3	2.45	0.51
26:2W:265:LEU:HD22	45:LK:370:LYS:HZ1	1.72	0.51
37:5G:123:ARG:HB3	45:OI:372:MET:HE3	1.91	0.51
37:5G:213:TYR:HD1	37:5G:216:LYS:HD2	1.76	0.51
39:6F:118:HIS:HA	39:6F:121:GLU:OE1	2.10	0.51
40:6G:122:TYR:HA	46:VJ:213:ARG:HH12	1.75	0.51
40:6G:277:LEU:C	40:6G:279:TYR:H	2.14	0.51
34:6R:426:PHE:HE2	34:6R:490:PHE:HB3	1.76	0.51
34:6R:427:GLU:OE1	34:6R:507:ARG:HG2	2.11	0.51
45:AC:420:GLU:HA	45:AC:423:GLU:OE1	2.11	0.51
46:AD:12:CYS:O	46:AD:16:ILE:HG12	2.11	0.51
46:AD:332:ASN:O	46:AD:336:LYS:HG2	2.11	0.51
45:AG:11:GLN:NE2	47:AG:501:GTP:O3A	2.44	0.51
45:AM:430:LYS:O	45:AM:433:GLU:HG2	2.11	0.51
46:AN:315:ALA:HB1	46:AN:317:PHE:CE1	2.46	0.51
46:BD:287:PRO:HG3	46:BD:329:GLN:NE2	2.26	0.51
46:BH:55:THR:O	46:CF:280:GLN:NE2	2.37	0.51
46:BH:222:TYR:HD1	49:BH:501:GDP:C6	2.29	0.51
46:BL:178:THR:HB	46:BL:181:GLU:HG3	1.91	0.51
45:CC:296:PHE:CE2	45:CC:335:ILE:HD13	2.46	0.51
46:CH:171:PRO:HB3	46:CH:181:GLU:OE2	2.10	0.51
46:CJ:313:ALA:HB1	46:CJ:367:PHE:HE1	1.76	0.51
45:DA:188:ILE:HD11	45:DA:391:LEU:HB3	1.93	0.51
46:DL:86:ARG:HH11	46:EL:281:TYR:HB2	1.75	0.51
46:EB:261:PRO:HD3	45:EC:406:HIS:CE1	2.46	0.51
45:EC:3:GLU:HG2	45:EC:64:ARG:CZ	2.40	0.51
45:EC:241:SER:OG	45:EC:250:VAL:O	2.23	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:208:ALA:O	45:EE:212:ILE:HG12	2.10	0.51
45:EI:37:PRO:HD2	45:EI:40:LYS:HB2	1.93	0.51
46:EL:67:ASP:O	46:EL:92:PHE:HA	2.11	0.51
45:FC:90:GLU:HB2	45:FC:121:ARG:HH21	1.74	0.51
45:FC:164:LYS:O	45:FC:166:LYS:NZ	2.43	0.51
46:FD:215:LEU:HB2	46:FD:217:LEU:HD22	1.93	0.51
46:FJ:66:MET:HA	46:FJ:91:VAL:O	2.11	0.51
45:FK:275:ILE:HA	45:FK:368:LEU:HD11	1.92	0.51
46:GB:372:THR:HA	46:GB:422:TYR:HE2	1.75	0.51
46:GJ:12:CYS:O	46:GJ:16:ILE:HG12	2.10	0.51
45:GK:248:LEU:HD13	45:GK:355:ILE:HD12	1.92	0.51
46:GL:287:PRO:HG3	46:GL:329:GLN:NE2	2.26	0.51
45:HA:326:LYS:HZ3	46:HD:212:PHE:HB2	1.74	0.51
45:HC:68:LEU:HD11	45:HC:118:CYS:SG	2.50	0.51
45:HC:414:GLU:CD	45:HC:416:GLY:H	2.14	0.51
46:HD:193:VAL:HA	46:HD:264:HIS:HE1	1.76	0.51
45:HI:21:TRP:CZ2	45:HI:65:ALA:HB2	2.45	0.51
45:HK:333:ALA:O	45:HK:337:THR:HG23	2.10	0.51
45:IA:249:ASN:OD1	45:IA:250:VAL:N	2.43	0.51
45:IC:107:HIS:ND1	45:IC:107:HIS:O	2.44	0.51
46:ID:65:LEU:HD22	46:ID:90:PHE:CE1	2.46	0.51
45:IK:69:ASP:OD1	45:IK:70:LEU:N	2.44	0.51
45:JA:298:PRO:HD2	45:JA:299:ALA:N	2.25	0.51
45:JI:337:THR:O	45:JI:339:ARG:NH1	2.44	0.51
46:JJ:145:SER:OG	46:JJ:188:SER:HB3	2.10	0.51
45:JK:102:ASN:ND2	45:JK:105:ARG:HG3	2.25	0.51
45:JK:335:ILE:HA	45:JK:338:LYS:HZ2	1.76	0.51
46:KB:9:GLY:HA2	46:KB:66:MET:O	2.11	0.51
46:KB:67:ASP:O	46:KB:92:PHE:HA	2.11	0.51
45:KG:246:GLY:HA2	45:KG:357:TYR:HD2	1.75	0.51
45:LA:60:LYS:HD3	45:MA:283:HIS:HB3	1.93	0.51
46:LB:313:ALA:HB3	46:LB:349:ILE:HG12	1.93	0.51
45:LI:196:GLU:OE1	45:LI:196:GLU:N	2.44	0.51
46:LJ:6:HIS:O	46:LJ:63:ALA:HA	2.10	0.51
45:ME:68:LEU:HD11	45:ME:118:CYS:SG	2.51	0.51
45:ME:140:SER:OG	47:ME:501:GTP:O2B	2.26	0.51
46:MN:405:GLU:HA	46:MN:408:PHE:HD2	1.76	0.51
45:NA:19:ALA:O	45:NA:22:GLU:HG2	2.11	0.51
45:NA:21:TRP:CZ2	45:NA:65:ALA:HB2	2.46	0.51
45:NC:9:VAL:HG13	45:NC:139:ASN:HB3	1.93	0.51
46:ND:67:ASP:O	46:ND:92:PHE:HA	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:338:LYS:HE2	45:NG:340:THR:H	1.74	0.51
46:NJ:64:ILE:HD11	46:NJ:123:GLU:HG3	1.92	0.51
46:NJ:73:MET:HE1	46:NJ:92:PHE:CD1	2.45	0.51
46:NJ:324:LYS:HB2	46:NJ:324:LYS:HZ3	1.76	0.51
46:OB:399:THR:HA	46:OB:403:MET:O	2.11	0.51
45:OC:89:PRO:HD2	45:PC:280:LYS:HG2	1.93	0.51
45:OC:221:ARG:HH12	46:OD:320:ARG:HH22	1.59	0.51
45:OI:69:ASP:OD1	45:OI:70:LEU:N	2.43	0.51
45:OM:206:ASN:O	45:OM:210:TYR:HD2	1.94	0.51
45:PA:124:LYS:NZ	45:PA:128:ASN:OD1	2.44	0.51
45:PE:98:ASP:OD1	45:PE:99:ALA:N	2.44	0.51
45:PG:224:TYR:HE1	47:PG:501:GTP:C4	2.29	0.51
45:PI:90:GLU:HG3	45:QI:280:LYS:HZ2	1.76	0.51
45:PI:145:THR:HG22	47:PI:501:GTP:PG	2.51	0.51
45:PM:100:ALA:HB1	46:PN:252:LYS:HA	1.92	0.51
46:QD:312:THR:HG22	46:QD:370:ASN:HB3	1.92	0.51
46:QH:10:GLY:O	46:QH:14:ASN:ND2	2.44	0.51
46:QJ:73:MET:HE3	46:QJ:92:PHE:HB3	1.92	0.51
45:QK:346:TRP:CD1	46:QL:391:ARG:HG3	2.45	0.51
45:QK:393:HIS:O	45:QK:397:LEU:HD23	2.11	0.51
46:QN:100:ASN:HD21	46:QN:102:ALA:HB3	1.76	0.51
45:RG:328:VAL:HG11	45:RG:353:VAL:HG21	1.92	0.51
45:RI:292:THR:HG21	45:RI:331:SER:HB2	1.90	0.51
45:RK:265:ILE:HG12	45:RK:432:TYR:HE1	1.74	0.51
46:SD:380:ARG:O	46:SD:384:GLN:HG2	2.10	0.51
46:SF:347:ASN:O	45:SG:181:VAL:HG12	2.11	0.51
45:SG:183:GLU:N	45:SG:184:PRO:HD2	2.26	0.51
45:SK:248:LEU:HB3	45:SK:355:ILE:HG12	1.92	0.51
46:TF:58:ARG:HH12	46:UF:280:GLN:HB3	1.75	0.51
46:TH:21:TRP:HA	46:TH:24:ILE:HG22	1.93	0.51
46:TH:318:ARG:HD3	46:TH:358:PRO:HD3	1.93	0.51
46:TJ:167:PHE:CE2	46:TJ:233:MET:HG2	2.45	0.51
45:UE:10:GLY:O	45:UE:14:ILE:HG12	2.11	0.51
46:UF:296:ALA:HB3	46:UF:297:LYS:NZ	2.26	0.51
46:UJ:116:VAL:HA	46:UJ:119:VAL:HG12	1.93	0.51
46:UJ:121:ARG:O	46:UJ:124:ALA:N	2.44	0.51
46:UJ:342:VAL:HG13	46:UJ:345:ILE:HG22	1.93	0.51
46:UL:200:MET:CE	46:UL:268:ILE:HG12	2.41	0.51
46:VF:16:ILE:HD13	46:VF:226:ASN:OD1	2.09	0.51
46:WH:30:ILE:HG13	46:WH:51:TYR:HE1	1.76	0.51
46:WJ:303:ALA:HB2	46:WJ:377:MET:SD	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WL:222:TYR:HA	46:WL:225:LEU:HG	1.92	0.51
46:WN:63:ALA:O	46:WN:89:ASN:ND2	2.33	0.51
4:1D:224:ARG:NH2	34:4R:492:ILE:HG13	2.26	0.51
36:5A:57:PRO:HG2	46:KB:390:ARG:CZ	2.40	0.51
37:5E:116:TYR:OH	45:OA:283:HIS:NE2	2.38	0.51
37:5E:142:TYR:HA	37:5E:145:GLU:OE2	2.10	0.51
37:5H:61:LYS:HZ2	46:ON:276:ARG:HH21	1.59	0.51
35:5S:167:LYS:O	35:5S:171:SER:HB3	2.11	0.51
10:6Q:169:ASP:HB2	10:6Q:170:ARG:HH11	1.75	0.51
34:6R:80:ARG:NH2	45:MM:36:MET:O	2.43	0.51
45:AI:283:HIS:CD2	45:MI:60:LYS:HD2	2.45	0.51
45:AK:69:ASP:OD1	45:AK:70:LEU:N	2.44	0.51
45:AK:268:MET:HB2	45:AK:379:SER:O	2.10	0.51
45:BA:231:ILE:O	45:BA:235:ILE:HG12	2.09	0.51
46:BL:3:GLU:HG3	46:BL:62:ARG:HH12	1.76	0.51
45:BM:90:GLU:HG3	45:BM:121:ARG:HH12	1.76	0.51
45:CA:5:ILE:HD11	45:CA:135:PHE:CE1	2.45	0.51
46:CB:350:LYS:HZ3	45:CC:181:VAL:HG12	1.76	0.51
46:CF:274:THR:HB	46:CF:282:ARG:HH11	1.76	0.51
46:CF:350:LYS:HZ1	45:CG:181:VAL:HG12	1.74	0.51
45:CK:113:GLU:HG3	45:CK:114:ILE:HG12	1.92	0.51
46:CN:97:ALA:HA	46:CN:103:LYS:HG2	1.93	0.51
45:DA:271:SER:HB2	45:DA:377:MET:HB3	1.93	0.51
46:DB:19:LYS:O	46:DB:22:GLU:HG3	2.11	0.51
46:DB:47:ILE:HD12	46:DB:59:TYR:HE1	1.74	0.51
46:DD:174:LYS:HB2	46:DD:205:GLU:OE2	2.11	0.51
45:DM:91:GLN:HG3	45:DM:92:LEU:HD12	1.93	0.51
46:DN:221:THR:HG23	46:DN:224:ASP:H	1.76	0.51
45:EA:244:PHE:HB2	45:EA:356:ASN:HD21	1.74	0.51
45:EE:288:VAL:HA	45:EE:291:ILE:HG12	1.92	0.51
45:EE:329:ASN:OD1	45:EE:330:ALA:N	2.43	0.51
46:EF:173:PRO:HG2	46:EF:380:ARG:HE	1.75	0.51
46:EF:267:MET:HB2	46:EF:299:MET:HE1	1.92	0.51
45:EG:188:ILE:HD12	45:EG:425:LEU:HD11	1.91	0.51
46:EH:67:ASP:OD1	46:EH:68:LEU:N	2.44	0.51
46:EH:105:HIS:CE1	46:EH:150:LEU:HD12	2.46	0.51
46:EH:394:PHE:HA	46:EH:397:TRP:HZ3	1.76	0.51
46:EN:268:ILE:HG22	46:EN:368:VAL:HG22	1.92	0.51
45:FE:223:THR:HG23	45:FE:225:THR:H	1.76	0.51
45:FG:362:VAL:HG23	45:FG:368:LEU:HD12	1.91	0.51
46:FJ:377:MET:O	46:FJ:381:VAL:HG22	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FL:350:LYS:HA	46:FL:350:LYS:HE2	1.93	0.51
45:FM:11:GLN:HG3	45:FM:74:VAL:HG11	1.93	0.51
45:GC:22:GLU:OE1	45:GC:363:VAL:HG21	2.11	0.51
45:GE:222:PRO:HD2	46:GF:324:LYS:CE	2.41	0.51
45:GG:328:VAL:HG21	45:GG:353:VAL:HG21	1.92	0.51
46:GL:333:VAL:O	46:GL:337:ASN:ND2	2.43	0.51
46:GN:398:TYR:HD1	46:GN:403:MET:HE1	1.76	0.51
45:HA:221:ARG:NH2	46:HB:321:MET:HB2	2.26	0.51
46:HB:6:HIS:O	46:HB:63:ALA:HA	2.11	0.51
46:HB:118:ASP:O	46:HB:121:ARG:HG3	2.11	0.51
46:HB:132:GLY:HA2	46:HB:162:ARG:HB3	1.91	0.51
46:HD:36:TYR:CD2	46:HD:44:LEU:HD21	2.45	0.51
45:IA:215:ARG:NH2	45:IA:300:ASN:OD1	2.44	0.51
46:IB:166:THR:HG21	46:IB:192:LEU:HD11	1.93	0.51
46:ID:117:LEU:HA	46:ID:120:VAL:HG12	1.93	0.51
46:ID:207:LEU:HD23	46:ID:300:MET:HG2	1.93	0.51
46:IF:311:LEU:HD23	46:IF:342:VAL:HG11	1.92	0.51
46:IF:378:PHE:HB3	46:IF:415:MET:SD	2.51	0.51
45:IM:15:GLN:HA	45:IM:18:ASN:HD22	1.75	0.51
45:JC:2:ARG:HD3	45:JC:2:ARG:H	1.76	0.51
46:JJ:181:GLU:HB3	46:JJ:182:PRO:HD3	1.93	0.51
45:JK:256:GLN:HB2	46:JN:397:TRP:CH2	2.46	0.51
46:JN:44:LEU:HA	46:JN:47:ILE:HG23	1.93	0.51
45:KA:426:ALA:O	45:KA:430:LYS:HG3	2.11	0.51
46:KB:178:THR:HG22	46:KB:180:VAL:H	1.76	0.51
46:KF:51:TYR:HB3	46:KF:59:TYR:HB3	1.92	0.51
46:KF:417:ASP:O	46:KF:421:GLU:HG2	2.11	0.51
45:KG:205:ASP:OD1	45:KG:303:ALA:HA	2.11	0.51
46:LB:326:VAL:O	46:LB:330:MET:HG2	2.10	0.51
46:LF:54:ALA:HB3	46:LF:58:ARG:HG2	1.93	0.51
45:LG:172:TYR:HD1	45:LG:203:MET:SD	2.34	0.51
46:LJ:206:ALA:O	46:LJ:210:ILE:HG12	2.09	0.51
46:LL:21:TRP:CZ3	46:LL:61:PRO:HB3	2.45	0.51
46:LN:6:HIS:O	46:LN:63:ALA:HA	2.11	0.51
45:MG:329:ASN:ND2	46:MJ:175:VAL:HG21	2.26	0.51
45:NA:239:THR:HG23	45:NA:243:ARG:HH21	1.76	0.51
45:NC:224:TYR:HD1	45:NC:227:LEU:HD12	1.76	0.51
46:NH:309:ARG:HE	46:NH:342:VAL:HA	1.75	0.51
46:NJ:178:THR:HB	46:NJ:181:GLU:HG3	1.91	0.51
45:NK:35:GLN:OE1	45:NK:60:LYS:HB3	2.11	0.51
45:OA:274:PRO:HG3	45:OA:371:VAL:HG11	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OF:372:THR:HA	46:OF:422:TYR:CE2	2.46	0.51
45:OG:268:MET:HG3	45:OG:380:ASN:HB2	1.92	0.51
46:ON:11:GLN:NE2	49:ON:501:GDP:O1A	2.44	0.51
46:PB:260:PHE:HB2	46:PB:263:LEU:HD13	1.93	0.51
45:PC:265:ILE:HG22	45:PC:380:ASN:HD21	1.75	0.51
46:PD:70:PRO:HG3	46:PD:92:PHE:HB2	1.93	0.51
46:PF:16:ILE:HD13	46:PF:226:ASN:OD1	2.11	0.51
45:PG:215:ARG:HA	45:PG:215:ARG:CZ	2.40	0.51
45:PI:265:ILE:HG12	45:PI:432:TYR:HE1	1.75	0.51
46:PL:345:ILE:O	46:PL:345:ILE:HG13	2.11	0.51
46:QB:161:ASP:O	46:QB:251:ARG:NH2	2.43	0.51
46:QB:312:THR:HG22	46:QB:370:ASN:HB3	1.93	0.51
45:QC:329:ASN:HA	45:QC:332:ILE:HG12	1.92	0.51
46:QD:257:LEU:HD11	46:QD:314:SER:HB2	1.93	0.51
45:QE:183:GLU:N	45:QE:184:PRO:HD2	2.26	0.51
46:QH:12:CYS:O	46:QH:16:ILE:HG12	2.10	0.51
46:QH:258:ILE:HG13	45:QI:407:TRP:HE1	1.76	0.51
46:QL:235:GLY:HA3	46:QL:366:THR:HG21	1.92	0.51
45:RC:141:VAL:HG11	45:RC:172:TYR:HA	1.93	0.51
46:RF:114:ASP:OD1	46:RF:115:SER:N	2.42	0.51
45:RG:268:MET:HE2	45:RG:380:ASN:HB2	1.92	0.51
45:RG:352:LYS:NZ	46:RH:179:VAL:H	1.98	0.51
45:RK:254:GLU:OE1	45:RK:257:THR:OG1	2.29	0.51
45:RK:269:LEU:HD12	45:RK:303:ALA:HB3	1.93	0.51
45:RM:207:GLU:O	45:RM:210:TYR:HB3	2.11	0.51
45:RM:387:VAL:HG12	45:RM:390:ARG:HH22	1.75	0.51
46:SJ:86:ARG:HH12	46:TJ:281:TYR:HD2	1.58	0.51
46:SJ:181:GLU:HG2	46:SJ:182:PRO:HD3	1.93	0.51
46:SL:252:LYS:HD2	45:SM:101:ASN:ND2	2.26	0.51
46:TB:357:PRO:HB2	46:TB:361:LEU:O	2.11	0.51
46:TJ:139:LEU:HD13	46:TJ:168:SER:HB3	1.91	0.51
45:TK:183:GLU:N	45:TK:184:PRO:HD2	2.26	0.51
46:TN:86:ARG:HG3	46:TN:88:ASP:H	1.76	0.51
45:UI:316:SER:HA	45:UI:352:LYS:HB2	1.92	0.51
46:UJ:178:THR:HG22	46:UJ:180:VAL:H	1.76	0.51
45:VA:221:ARG:NH2	46:VB:321:MET:SD	2.84	0.51
45:VI:56:THR:HG23	45:VI:58:ALA:H	1.75	0.51
46:VJ:409:THR:O	46:VJ:412:GLU:HG2	2.10	0.51
45:VK:336:LYS:HD3	45:VK:351:PHE:CZ	2.46	0.51
46:VL:146:GLY:O	46:VL:149:THR:HG22	2.11	0.51
45:WA:209:ILE:HG12	45:WA:302:MET:HG3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:211:ASP:O	45:WA:215:ARG:HG2	2.11	0.51
46:WB:69:GLU:OE2	46:WB:96:GLY:N	2.44	0.51
45:WG:258:ASN:ND2	45:WG:352:LYS:HE3	2.26	0.51
46:WH:6:HIS:O	46:WH:63:ALA:HA	2.10	0.51
46:WL:186:THR:HA	46:WL:189:VAL:HG12	1.91	0.51
46:WN:251:ARG:O	46:WN:255:VAL:HG23	2.11	0.51
14:1V:137:ASN:ND2	46:LL:425:TYR:OH	2.44	0.51
20:2K:269:GLU:CD	45:GK:370:LYS:H	2.13	0.51
35:4S:147:LYS:HE3	46:AD:413:SER:HB2	1.92	0.51
35:5S:68:TYR:O	35:5S:71:ARG:HB3	2.11	0.51
34:6R:87:LYS:HE3	34:6R:88:TYR:CZ	2.46	0.51
34:7R:114:ARG:NH2	34:7R:131:GLU:OE2	2.44	0.51
46:AF:345:ILE:O	46:AF:345:ILE:HG13	2.11	0.51
46:AH:91:VAL:HG21	46:AH:116:VAL:HB	1.93	0.51
46:AN:47:ILE:HG22	46:AN:51:TYR:HB2	1.93	0.51
45:BC:192:HIS:CD2	45:BC:421:ALA:HA	2.45	0.51
46:BD:64:ILE:HA	46:BD:89:ASN:HB3	1.93	0.51
45:BE:134:GLY:HA2	45:BE:164:LYS:HE2	1.93	0.51
47:BE:501:GTP:O1G	46:BF:252:LYS:NZ	2.38	0.51
45:BI:88:HIS:HB3	45:BI:91:GLN:HG3	1.92	0.51
45:BI:167:LEU:HG	45:BI:200:VAL:HB	1.93	0.51
45:CA:108:TYR:HA	45:CA:112:LYS:HE3	1.93	0.51
46:CB:217:LEU:HB3	46:CB:276:ARG:NH1	2.25	0.51
46:CN:65:LEU:HB2	46:CN:90:PHE:HD1	1.75	0.51
46:DD:87:PRO:HA	46:DD:90:PHE:CD2	2.46	0.51
45:DE:101:ASN:HA	45:DE:144:GLY:H	1.76	0.51
45:DE:175:PRO:HG3	45:DE:390:ARG:NH2	2.25	0.51
46:DF:375:GLN:HG3	46:DF:419:VAL:HG13	1.93	0.51
45:DG:231:ILE:O	45:DG:235:ILE:HG12	2.11	0.51
45:DM:183:GLU:N	45:DM:184:PRO:HD2	2.26	0.51
46:EF:271:ALA:HB3	46:EF:365:VAL:HB	1.92	0.51
46:EH:5:VAL:HG12	46:EH:62:ARG:HD3	1.93	0.51
45:EM:239:THR:HG23	45:EM:243:ARG:HE	1.75	0.51
45:FC:288:VAL:HG11	45:FC:327:ASP:HB3	1.93	0.51
46:FD:191:GLN:O	46:FD:195:ASN:ND2	2.42	0.51
45:FI:274:PRO:HG3	45:FI:286:LEU:HD23	1.93	0.51
45:GA:90:GLU:HG2	45:GA:121:ARG:NH2	2.26	0.51
45:GC:242:LEU:HD11	45:GC:252:ILE:HG23	1.93	0.51
45:GE:205:ASP:OD1	45:GE:303:ALA:HA	2.11	0.51
45:GG:183:GLU:N	45:GG:184:PRO:HD2	2.26	0.51
45:GG:226:ASN:O	45:GG:230:LEU:HG	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GI:33:ASP:OD1	45:GI:33:ASP:N	2.43	0.51
45:GI:257:THR:HA	46:GL:397:TRP:CH2	2.45	0.51
46:GL:167:PHE:CE2	46:GL:233:MET:HG2	2.45	0.51
45:HC:265:ILE:HG22	45:HC:380:ASN:HD21	1.75	0.51
45:HC:407:TRP:CH2	46:HD:258:ILE:HG13	2.46	0.51
46:HD:257:LEU:HB3	46:HD:266:PHE:CZ	2.46	0.51
45:HE:231:ILE:O	45:HE:235:ILE:HG12	2.11	0.51
45:IA:339:ARG:NE	45:IA:339:ARG:HA	2.25	0.51
46:IB:6:HIS:HB2	46:IB:134:GLN:HE21	1.76	0.51
46:IB:238:CYS:SG	46:IB:239:CYS:N	2.84	0.51
45:II:2:ARG:NH1	45:II:242:LEU:O	2.40	0.51
46:IJ:299:MET:HG3	46:IJ:305:PRO:HG3	1.93	0.51
45:IK:71:GLU:OE1	45:IK:73:THR:HG22	2.11	0.51
45:IK:276:ILE:HD11	45:IK:280:LYS:NZ	2.26	0.51
46:IL:36:TYR:CZ	46:IL:44:LEU:HG	2.46	0.51
46:IN:145:SER:OG	46:IN:188:SER:HB3	2.10	0.51
45:JC:17:GLY:HA2	45:JC:20:CYS:SG	2.51	0.51
45:JC:205:ASP:OD1	45:JC:303:ALA:HA	2.11	0.51
46:JF:375:GLN:O	46:JF:379:LYS:HG3	2.10	0.51
46:JH:380:ARG:O	46:JH:383:GLU:HG3	2.10	0.51
45:JK:286:LEU:HD13	45:JK:371:VAL:HG23	1.92	0.51
45:JK:426:ALA:HB1	45:JK:430:LYS:NZ	2.26	0.51
46:JN:186:THR:HA	46:JN:189:VAL:HG12	1.91	0.51
45:KC:98:ASP:OD2	45:KC:99:ALA:N	2.43	0.51
45:KC:325:PRO:HB2	46:KF:208:TYR:OH	2.10	0.51
45:KG:88:HIS:ND1	45:KG:90:GLU:HG2	2.26	0.51
46:KH:12:CYS:O	46:KH:16:ILE:HG12	2.11	0.51
45:LA:119:LEU:HD11	45:LA:156:ARG:HG2	1.93	0.51
46:LB:67:ASP:OD1	46:LB:68:LEU:N	2.43	0.51
45:LC:272:TYR:HD2	45:LC:275:ILE:HD11	1.76	0.51
46:LH:67:ASP:OD2	46:LH:72:THR:OG1	2.27	0.51
45:LM:17:GLY:HA2	45:LM:20:CYS:SG	2.51	0.51
45:LM:183:GLU:N	45:LM:184:PRO:HD2	2.26	0.51
46:MD:304:ASP:OD1	46:MD:306:ARG:NH2	2.44	0.51
45:ME:118:CYS:O	45:ME:122:ILE:HG12	2.10	0.51
45:ME:326:LYS:HZ2	46:MH:220:PRO:HD2	1.76	0.51
46:MF:27:GLU:OE1	46:MF:241:ARG:NH1	2.31	0.51
46:MJ:68:LEU:HD23	46:MJ:143:THR:OG1	2.10	0.51
45:NA:214:ARG:NH1	45:NA:220:GLU:HA	2.26	0.51
46:NB:377:MET:HG3	46:NB:380:ARG:HH22	1.75	0.51
45:NC:88:HIS:H	45:NC:91:GLN:NE2	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NC:254:GLU:OE1	46:NF:99:ASN:ND2	2.44	0.51
46:ND:190:HIS:CD2	46:ND:411:ALA:HA	2.46	0.51
46:NF:313:ALA:HB1	46:NF:367:PHE:HE1	1.76	0.51
45:NI:271:SER:HA	45:NI:302:MET:HG3	1.93	0.51
46:NJ:73:MET:SD	46:NJ:90:PHE:HB3	2.51	0.51
45:OA:119:LEU:HA	45:OA:122:ILE:HG22	1.93	0.51
45:OC:10:GLY:O	45:OC:14:ILE:HG12	2.11	0.51
46:OF:58:ARG:HH22	46:OF:84:LEU:HD23	1.75	0.51
46:OF:341:PHE:CE1	46:OF:349:ILE:HD11	2.46	0.51
46:OJ:316:LEU:HD13	46:OJ:352:SER:HB3	1.91	0.51
45:PA:171:ILE:HG23	45:PA:204:LEU:O	2.11	0.51
46:PB:52:ASN:OD1	46:PB:62:ARG:NH2	2.44	0.51
46:PB:167:PHE:CE2	46:PB:233:MET:HG2	2.45	0.51
45:PC:328:VAL:HG11	45:PC:353:VAL:HG21	1.93	0.51
46:PF:377:MET:HG3	46:PF:380:ARG:HH21	1.76	0.51
46:PH:389:PHE:HZ	46:PH:405:GLU:HG2	1.75	0.51
45:PK:326:LYS:HD3	46:PN:212:PHE:CZ	2.44	0.51
46:PL:178:THR:HB	46:PL:181:GLU:HG2	1.93	0.51
45:PM:102:ASN:HB3	45:PM:105:ARG:HB2	1.93	0.51
46:PN:86:ARG:NH2	46:QL:277:GLY:O	2.41	0.51
46:QD:86:ARG:HA	46:RD:281:TYR:CE1	2.46	0.51
46:QD:221:THR:HG23	46:QD:224:ASP:H	1.75	0.51
45:QG:136:LEU:HD23	45:QG:167:LEU:HB2	1.91	0.51
46:QJ:312:THR:HG22	46:QJ:370:ASN:HB3	1.92	0.51
46:QL:52:ASN:OD1	46:QL:62:ARG:NH2	2.44	0.51
46:QL:344:TRP:CZ3	45:QM:401:LYS:HD3	2.46	0.51
46:RB:5:VAL:HG11	46:RB:123:GLU:HG3	1.92	0.51
45:RE:67:PHE:HB2	45:RE:92:LEU:HD13	1.92	0.51
45:RI:188:ILE:HG23	45:RI:425:LEU:HD11	1.92	0.51
45:RI:252:ILE:HA	45:RI:255:PHE:CE2	2.46	0.51
46:TB:150:LEU:HG	46:TB:154:LYS:NZ	2.25	0.51
45:TM:141:VAL:HG11	45:TM:172:TYR:HD1	1.75	0.51
45:TM:224:TYR:O	45:TM:228:ASN:ND2	2.44	0.51
45:UC:175:PRO:HA	45:UC:390:ARG:CZ	2.41	0.51
46:UD:322:SER:H	45:UE:221:ARG:HH12	1.57	0.51
45:UE:151:SER:O	45:UE:155:GLU:OE1	2.29	0.51
45:UG:242:LEU:HD11	45:UG:252:ILE:HG23	1.93	0.51
46:UJ:186:THR:HA	46:UJ:189:VAL:HG12	1.92	0.51
45:UM:395:PHE:HZ	45:UM:418:PHE:HB3	1.76	0.51
45:VA:121:ARG:HE	45:VA:124:LYS:NZ	2.08	0.51
45:VA:426:ALA:O	45:VA:429:GLU:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VC:324:VAL:HG11	45:VC:326:LYS:NZ	2.26	0.51
45:VC:407:TRP:HE1	46:VD:258:ILE:HG13	1.75	0.51
45:VK:174:SER:HB3	45:VK:207:GLU:HG3	1.93	0.51
45:VK:387:VAL:HA	45:VK:390:ARG:HG2	1.92	0.51
46:VL:86:ARG:HB3	46:VL:89:ASN:OD1	2.11	0.51
46:VN:117:LEU:HA	46:VN:120:VAL:HG12	1.93	0.51
46:VN:150:LEU:HG	46:VN:154:LYS:NZ	2.25	0.51
45:WC:56:THR:HG23	45:WC:58:ALA:H	1.76	0.51
46:WD:164:MET:HG2	46:WD:196:ALA:HA	1.93	0.51
45:WE:346:TRP:CD1	46:WH:391:ARG:HG3	2.45	0.51
46:WF:239:CYS:HB2	46:WF:316:LEU:HD11	1.92	0.51
45:WG:22:GLU:OE2	45:WG:83:TYR:HE2	1.94	0.51
46:WH:282:ARG:NH2	46:WH:292:GLN:OE1	2.29	0.51
45:WK:41:THR:HG22	45:WK:42:ILE:N	2.24	0.51
45:WK:99:ALA:HA	45:WK:105:ARG:HD2	1.93	0.51
45:WK:356:ASN:OD1	45:WK:357:TYR:N	2.44	0.51
46:WL:67:ASP:O	46:WL:92:PHE:HA	2.10	0.51
45:CE:254:GLU:OE2	45:CE:258:ASN:ND2	2.44	0.51
45:CE:298:PRO:HA	45:CE:301:MET:HE3	1.93	0.51
21:1L:314:ASN:HB2	46:BH:320:ARG:HH12	1.74	0.51
27:4C:232:PHE:CE1	46:JN:53:GLU:HB3	2.45	0.51
15:4X:31:ASP:OD2	46:LL:218:THR:OG1	2.28	0.51
36:5C:54:ARG:HH11	36:5C:56:ILE:HD13	1.76	0.51
34:5R:231:TYR:CZ	46:CJ:216:LYS:HG3	2.45	0.51
34:5R:531:THR:HG22	34:5R:584:GLU:OE1	2.11	0.51
35:5S:125:GLU:HB3	35:5S:164:LYS:NZ	2.26	0.51
34:6R:386:PRO:HG2	46:EN:276:ARG:HG2	1.92	0.51
45:AA:205:ASP:OD2	45:AA:303:ALA:HA	2.10	0.51
45:AC:288:VAL:HA	45:AC:291:ILE:HG12	1.92	0.51
45:AM:292:THR:HG21	45:AM:331:SER:HB3	1.93	0.51
46:BF:133:PHE:HB2	46:BF:164:MET:HE3	1.92	0.51
46:BH:148:GLY:O	46:BH:152:ILE:HG12	2.10	0.51
45:BI:115:VAL:HG11	45:BI:152:LEU:HD23	1.93	0.51
46:BN:148:GLY:O	46:BN:152:ILE:HG12	2.11	0.51
45:CA:346:TRP:CD1	46:CB:391:ARG:HG3	2.46	0.51
45:CG:231:ILE:O	45:CG:235:ILE:HG12	2.11	0.51
46:CH:321:MET:HB2	45:CI:221:ARG:NH2	2.26	0.51
45:CK:332:ILE:O	45:CK:336:LYS:HG2	2.11	0.51
46:DD:68:LEU:HD13	46:DD:143:THR:OG1	2.11	0.51
46:DF:68:LEU:HD22	46:DF:97:ALA:HB2	1.93	0.51
45:DI:76:ASP:HA	45:DI:79:ARG:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:239:THR:HG23	45:DI:243:ARG:HE	1.77	0.51
45:DI:260:VAL:H	46:DJ:397:TRP:HZ2	1.58	0.51
45:DK:136:LEU:HD23	45:DK:167:LEU:HB2	1.92	0.51
45:DM:340:THR:HG23	45:DM:341:ILE:HG13	1.92	0.51
45:EC:147:SER:HB2	45:EC:190:SER:OG	2.11	0.51
45:EC:322:ASP:OD1	45:EC:373:ARG:NH1	2.42	0.51
46:EN:12:CYS:HA	46:EN:15:GLN:NE2	2.25	0.51
46:FF:116:VAL:HA	46:FF:119:VAL:HG12	1.93	0.51
45:FG:90:GLU:OE1	45:FG:121:ARG:NH2	2.44	0.51
45:FI:55:GLU:HG3	45:FI:57:GLY:H	1.76	0.51
45:FK:28:HIS:HD2	45:FK:49:PHE:HB3	1.76	0.51
45:FK:147:SER:HB2	45:FK:190:SER:OG	2.11	0.51
45:FK:286:LEU:O	45:FK:373:ARG:NH2	2.44	0.51
45:GA:205:ASP:OD1	45:GA:206:ASN:N	2.44	0.51
46:GB:67:ASP:O	46:GB:92:PHE:HA	2.10	0.51
46:GD:19:LYS:HA	46:GD:22:GLU:OE2	2.11	0.51
46:GH:6:HIS:O	46:GH:63:ALA:HA	2.11	0.51
45:GI:141:VAL:HG11	45:GI:172:TYR:CD1	2.46	0.51
46:GL:99:ASN:HA	46:GL:142:GLY:H	1.75	0.51
45:HA:352:LYS:NZ	46:HD:178:THR:HA	2.26	0.51
45:HC:3:GLU:OE2	45:HC:129:CYS:HB3	2.11	0.51
45:HC:407:TRP:CZ3	46:HD:255:VAL:HA	2.46	0.51
45:HE:265:ILE:HG22	45:HE:380:ASN:HD21	1.77	0.51
46:HF:12:CYS:O	46:HF:16:ILE:HG12	2.11	0.51
46:HF:282:ARG:NE	46:HF:288:GLU:OE1	2.31	0.51
46:HH:397:TRP:O	46:HH:400:GLY:N	2.44	0.51
45:IE:326:LYS:HE3	46:IH:218:THR:O	2.11	0.51
46:IN:156:ARG:HH22	46:IN:197:ASP:CG	2.14	0.51
46:JJ:105:HIS:CE1	46:JJ:150:LEU:HD13	2.46	0.51
46:JL:260:PHE:HB2	46:JL:263:LEU:HD13	1.93	0.51
46:JN:287:PRO:HA	46:JN:329:GLN:HE21	1.75	0.51
46:KB:262:ARG:NH1	46:KB:421:GLU:OE1	2.43	0.51
45:KC:17:GLY:HA2	45:KC:20:CYS:SG	2.51	0.51
45:KC:317:MET:SD	45:KC:377:MET:HG2	2.51	0.51
45:KG:324:VAL:HG13	45:KG:327:ASP:H	1.76	0.51
45:KK:75:ILE:O	45:KK:79:ARG:HG3	2.11	0.51
45:KM:395:PHE:HZ	45:KM:418:PHE:HB3	1.75	0.51
45:LC:75:ILE:HG21	45:LC:94:SER:HB2	1.93	0.51
45:LE:150:GLY:O	45:LE:154:LEU:HG	2.10	0.51
45:LE:230:LEU:O	45:LE:234:VAL:HG23	2.11	0.51
46:LH:294:PHE:CD2	46:LH:333:VAL:HG21	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:19:LYS:HZ1	46:LJ:227:HIS:HB2	1.76	0.51
46:LL:410:GLU:OE2	46:LL:414:ASN:ND2	2.44	0.51
45:LM:175:PRO:HB2	45:LM:176:GLN:OE1	2.11	0.51
45:ME:208:ALA:O	45:ME:212:ILE:HG12	2.11	0.51
45:MI:328:VAL:HG11	45:MI:353:VAL:HG21	1.92	0.51
46:MJ:22:GLU:HG2	46:MJ:81:PHE:HD2	1.76	0.51
46:NB:31:ASP:OD1	46:NB:35:THR:N	2.40	0.51
46:NB:97:ALA:HB3	46:NB:143:THR:HB	1.92	0.51
46:NB:272:PRO:HD2	46:NB:361:LEU:HD21	1.93	0.51
45:NC:414:GLU:OE2	45:NC:417:GLU:N	2.44	0.51
46:ND:383:GLU:HA	46:ND:386:THR:HG22	1.92	0.51
45:NE:81:GLY:O	45:NE:84:ARG:HG3	2.11	0.51
45:NE:141:VAL:HG12	45:NE:171:ILE:O	2.11	0.51
45:NG:183:GLU:N	45:NG:184:PRO:HD2	2.26	0.51
45:NG:414:GLU:OE1	45:NG:416:GLY:N	2.34	0.51
46:NL:190:HIS:CD2	46:NL:414:ASN:HD22	2.29	0.51
45:NM:408:TYR:HB3	45:NM:413:MET:HE3	1.92	0.51
46:NN:316:LEU:HD13	46:NN:352:SER:OG	2.11	0.51
46:OB:133:PHE:HB2	46:OB:164:MET:SD	2.51	0.51
45:OE:350:GLY:HA2	46:OH:179:VAL:HG12	1.91	0.51
45:OI:177:VAL:HG13	46:OJ:327:ASP:OD1	2.11	0.51
45:OK:89:PRO:HD2	45:PK:280:LYS:HE3	1.93	0.51
46:OL:218:THR:H	46:OL:276:ARG:NH2	2.08	0.51
45:PC:210:TYR:CE1	46:PD:324:LYS:HE3	2.46	0.51
46:PD:184:ASN:OD1	46:PD:185:ALA:N	2.44	0.51
46:PJ:203:ASP:HB3	46:PJ:205:GLU:OE2	2.11	0.51
46:PL:152:ILE:HG22	46:PL:195:ASN:ND2	2.25	0.51
46:PN:222:TYR:HA	46:PN:225:LEU:HG	1.91	0.51
45:QC:290:GLU:N	45:QC:290:GLU:OE1	2.42	0.51
45:QE:5:ILE:HD12	45:QE:125:LEU:HD21	1.93	0.51
45:QI:68:LEU:HD21	45:QI:118:CYS:HB2	1.92	0.51
45:QI:136:LEU:HD12	45:QI:169:PHE:HE2	1.76	0.51
46:QJ:62:ARG:HB2	46:QJ:123:GLU:OE2	2.11	0.51
45:QK:239:THR:HG23	45:QK:243:ARG:HE	1.76	0.51
46:QL:282:ARG:NE	46:QL:288:GLU:OE2	2.37	0.51
45:RA:268:MET:HB2	45:RA:379:SER:O	2.11	0.51
45:RA:318:MET:O	45:RA:375:VAL:HA	2.11	0.51
46:RD:52:ASN:OD1	46:RD:62:ARG:NH2	2.43	0.51
45:RE:141:VAL:HG11	45:RE:172:TYR:HA	1.93	0.51
46:RH:107:THR:OG1	46:RH:108:GLU:OE2	2.23	0.51
45:RM:68:LEU:HD13	45:RM:93:ILE:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:304:ASP:HB3	46:SB:307:HIS:ND1	2.26	0.51
46:SD:67:ASP:OD1	46:SD:68:LEU:N	2.43	0.51
46:SF:68:LEU:HB3	46:SF:96:GLY:HA2	1.93	0.51
45:SG:278:ALA:HB2	45:SG:369:ALA:HB2	1.93	0.51
45:SK:75:ILE:HG23	45:SK:79:ARG:HH12	1.76	0.51
46:TB:254:ALA:O	46:TB:258:ILE:HG22	2.11	0.51
46:TD:148:GLY:O	46:TD:152:ILE:HD12	2.11	0.51
45:TG:28:HIS:CE1	45:TG:49:PHE:HA	2.46	0.51
45:TG:328:VAL:O	45:TG:332:ILE:HG12	2.10	0.51
45:UA:135:PHE:HB2	45:UA:166:LYS:HG2	1.92	0.51
46:UB:27:GLU:OE2	46:UB:241:ARG:NH1	2.29	0.51
45:UE:286:LEU:HD23	45:UE:291:ILE:HD11	1.92	0.51
46:UH:118:ASP:O	46:UH:122:LYS:HG2	2.11	0.51
45:UI:212:ILE:HD11	45:UI:300:ASN:HA	1.93	0.51
46:UL:370:ASN:OD1	46:UL:422:TYR:OH	2.28	0.51
46:UN:183:TYR:HA	46:UN:385:PHE:CE2	2.45	0.51
45:VA:71:GLU:CG	45:VA:98:ASP:HB2	2.41	0.51
45:VA:121:ARG:HE	45:VA:124:LYS:HZ2	1.58	0.51
45:VA:326:LYS:CE	46:VD:220:PRO:HD2	2.40	0.51
45:VC:76:ASP:OD1	45:VC:79:ARG:NH2	2.43	0.51
45:VI:133:GLN:HB3	45:VI:252:ILE:HD11	1.93	0.51
45:WA:31:GLN:HG2	45:WA:33:ASP:H	1.76	0.51
45:WC:288:VAL:HG11	45:WC:327:ASP:HB3	1.91	0.51
46:WD:285:THR:HB	46:WD:287:PRO:HD2	1.92	0.51
46:WF:105:HIS:CE1	46:WF:150:LEU:HD12	2.46	0.51
46:WJ:118:ASP:O	46:WJ:122:LYS:HG3	2.12	0.51
46:WJ:389:PHE:HZ	46:WJ:405:GLU:HG2	1.76	0.51
45:WK:10:GLY:O	45:WK:14:ILE:HG12	2.10	0.51
45:WK:71:GLU:OE2	46:WL:2:ARG:NH2	2.43	0.51
45:WM:24:PHE:O	45:WM:27:GLU:HG2	2.11	0.51
45:WM:288:VAL:HG11	45:WM:327:ASP:HB3	1.93	0.51
45:WM:390:ARG:HH21	45:WM:394:LYS:NZ	2.09	0.51
46:WN:42:LEU:HA	46:WN:45:GLU:HG3	1.93	0.51
46:WN:221:THR:HG23	46:WN:224:ASP:H	1.76	0.51
46:WN:344:TRP:CE3	46:WN:345:ILE:HG23	2.46	0.51
21:2L:760:ASP:HB3	45:BK:221:ARG:HH21	1.75	0.50
11:2S:150:GLN:HE22	45:WG:164:LYS:HG2	1.75	0.50
37:5G:49:ASP:OD1	46:OJ:219:THR:OG1	2.21	0.50
34:6R:13:PRO:HB3	46:LN:228:LEU:HD23	1.93	0.50
34:6R:318:TYR:CE2	46:CN:273:LEU:HA	2.46	0.50
34:7R:80:ARG:HH22	45:MA:38:SER:H	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:7R:477:ASN:HA	34:7R:484:PRO:HA	1.92	0.50
44:8R:177:ALA:HA	44:8R:180:TYR:CD2	2.46	0.50
45:AA:326:LYS:HD3	46:AD:220:PRO:HD2	1.93	0.50
45:AC:390:ARG:HG3	45:AC:391:LEU:HD12	1.93	0.50
46:AD:106:TYR:HE2	46:AD:403:MET:SD	2.34	0.50
46:AF:31:ASP:OD1	46:AF:35:THR:N	2.39	0.50
46:AH:12:CYS:O	46:AH:16:ILE:HG12	2.11	0.50
46:AH:165:GLU:OE2	46:AH:198:GLU:HB2	2.11	0.50
45:AI:141:VAL:HG11	45:AI:172:TYR:CD2	2.46	0.50
46:AN:238:CYS:HB2	46:AN:318:ARG:NH1	2.25	0.50
46:AN:294:PHE:HE2	46:AN:333:VAL:HG11	1.76	0.50
45:BA:326:LYS:CD	46:BD:220:PRO:HD2	2.40	0.50
45:BG:205:ASP:OD1	45:BG:303:ALA:HA	2.10	0.50
45:BG:221:ARG:NH1	46:BH:325:GLU:OE2	2.44	0.50
45:BK:98:ASP:OD1	45:BK:99:ALA:N	2.44	0.50
46:BL:148:GLY:O	46:BL:152:ILE:HG12	2.11	0.50
46:CF:86:ARG:NH2	46:DF:281:TYR:CD1	2.79	0.50
46:CF:324:LYS:HB2	45:CG:221:ARG:HH11	1.74	0.50
46:CJ:19:LYS:HE2	46:CJ:223:GLY:O	2.12	0.50
46:DF:390:ARG:HD2	46:DF:391:ARG:HG2	1.93	0.50
45:EE:183:GLU:N	45:EE:184:PRO:HD2	2.26	0.50
45:EE:239:THR:HG23	45:EE:243:ARG:HE	1.77	0.50
46:EF:372:THR:HA	46:EF:422:TYR:HE2	1.75	0.50
45:EG:248:LEU:HB2	45:EG:355:ILE:HG12	1.91	0.50
45:EM:183:GLU:N	45:EM:184:PRO:HD2	2.27	0.50
45:FC:183:GLU:N	45:FC:184:PRO:HD2	2.26	0.50
46:FH:288:GLU:O	46:FH:291:GLN:HG3	2.12	0.50
46:FJ:256:ASN:ND2	46:FJ:350:LYS:HD2	2.24	0.50
45:GA:221:ARG:NH2	46:GB:321:MET:HB3	2.26	0.50
46:GJ:16:ILE:HD13	46:GJ:226:ASN:OD1	2.11	0.50
46:GJ:310:TYR:CD1	46:GJ:371:SER:HB2	2.47	0.50
46:GN:130:LEU:O	46:GN:162:ARG:NH2	2.43	0.50
45:HA:175:PRO:HG2	45:HA:304:LYS:HD2	1.93	0.50
46:HD:186:THR:HA	46:HD:189:VAL:HG12	1.93	0.50
46:HF:45:GLU:HG3	46:HF:46:ARG:HG2	1.93	0.50
46:HF:51:TYR:HB3	46:HF:59:TYR:HB3	1.93	0.50
46:HF:229:VAL:O	46:HF:233:MET:HG2	2.11	0.50
45:IC:88:HIS:CD2	46:JD:281:TYR:HB3	2.45	0.50
45:IG:280:LYS:HE3	45:IG:283:HIS:HD1	1.77	0.50
45:II:89:PRO:HD3	46:JJ:281:TYR:HD1	1.76	0.50
45:IM:141:VAL:HG11	45:IM:172:TYR:HD1	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:208:ALA:O	45:IM:212:ILE:HG12	2.11	0.50
46:IN:178:THR:HG22	46:IN:180:VAL:H	1.76	0.50
46:JB:404:ASP:N	46:JB:407:GLU:OE1	2.36	0.50
46:JF:175:VAL:HG22	46:JF:205:GLU:HB2	1.93	0.50
46:JH:10:GLY:O	46:JH:14:ASN:ND2	2.43	0.50
46:JH:344:TRP:HB3	46:JH:430:ALA:HB2	1.93	0.50
45:JI:356:ASN:OD1	45:JI:357:TYR:N	2.44	0.50
46:JL:19:LYS:NZ	46:JL:227:HIS:HB2	2.25	0.50
46:KD:294:PHE:CD1	46:KD:333:VAL:HG21	2.46	0.50
45:LE:223:THR:HG22	45:LE:224:TYR:H	1.76	0.50
46:LF:67:ASP:O	46:LF:92:PHE:HA	2.10	0.50
46:LF:95:THR:HG21	46:LF:108:GLU:HG2	1.93	0.50
46:LJ:293:MET:SD	46:LJ:367:PHE:HB2	2.51	0.50
45:LM:222:PRO:HD2	46:LN:324:LYS:HD3	1.93	0.50
45:MA:244:PHE:HB2	45:MA:356:ASN:HD21	1.76	0.50
46:MB:309:ARG:HH21	46:MB:342:VAL:HA	1.75	0.50
45:NA:152:LEU:O	45:NA:155:GLU:HG3	2.11	0.50
46:ND:403:MET:HB2	46:ND:407:GLU:OE2	2.12	0.50
45:NG:97:GLU:OE1	46:NH:251:ARG:NH2	2.40	0.50
45:NK:136:LEU:HD23	45:NK:167:LEU:HB2	1.92	0.50
46:NL:294:PHE:CD1	46:NL:333:VAL:HG11	2.47	0.50
45:OA:318:MET:O	45:OA:375:VAL:HA	2.11	0.50
45:OC:153:LEU:O	45:OC:157:LEU:HD23	2.12	0.50
45:OE:231:ILE:O	45:OE:235:ILE:HG12	2.11	0.50
46:OF:128:ASP:OD1	46:OF:129:CYS:N	2.42	0.50
45:OI:298:PRO:HA	45:OI:301:MET:HE1	1.92	0.50
45:OI:350:GLY:HA2	46:OL:179:VAL:HG23	1.93	0.50
46:ON:6:HIS:HD2	46:ON:134:GLN:NE2	2.04	0.50
46:PN:192:LEU:HD12	46:PN:196:ALA:HB2	1.93	0.50
45:QA:109:THR:HG22	45:QA:110:ILE:HG23	1.92	0.50
45:QC:187:SER:O	45:QC:191:THR:HG23	2.11	0.50
45:QC:265:ILE:HG12	45:QC:432:TYR:HE1	1.76	0.50
46:QF:289:LEU:HD13	46:QF:365:VAL:HG23	1.94	0.50
46:QL:2:ARG:NH2	45:QM:70:LEU:O	2.44	0.50
46:QL:28:HIS:ND1	46:QL:43:GLN:OE1	2.43	0.50
45:RA:108:TYR:HA	45:RA:112:LYS:HE3	1.93	0.50
46:RF:214:THR:O	46:RF:216:LYS:NZ	2.43	0.50
45:RK:329:ASN:ND2	46:RL:175:VAL:HG23	2.25	0.50
45:SC:248:LEU:HB2	45:SC:355:ILE:HG22	1.92	0.50
46:SH:221:THR:HG23	46:SH:224:ASP:H	1.76	0.50
45:SK:69:ASP:OD1	45:SK:70:LEU:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:293:MET:CE	46:SL:367:PHE:HB3	2.41	0.50
45:TA:206:ASN:OD1	47:TA:501:GTP:N2	2.41	0.50
46:TB:86:ARG:HA	46:UB:281:TYR:HE1	1.75	0.50
45:TC:183:GLU:N	45:TC:184:PRO:HD2	2.26	0.50
45:TC:244:PHE:HB2	45:TC:356:ASN:HD21	1.76	0.50
45:TK:181:VAL:HG23	45:TK:182:VAL:HG13	1.93	0.50
46:TN:178:THR:HB	46:TN:181:GLU:HG3	1.93	0.50
46:UB:335:ASN:OD1	46:UB:336:LYS:N	2.44	0.50
46:UD:10:GLY:O	46:UD:14:ASN:ND2	2.43	0.50
45:UI:74:VAL:O	45:UI:77:GLU:HG3	2.11	0.50
46:UJ:67:ASP:OD1	46:UJ:68:LEU:N	2.42	0.50
46:UN:174:LYS:HB3	46:UN:205:GLU:OE2	2.11	0.50
46:VB:290:THR:HA	46:VB:293:MET:HG2	1.93	0.50
46:VD:45:GLU:HG3	46:VD:46:ARG:HG2	1.92	0.50
45:VE:292:THR:HG21	45:VE:331:SER:HB3	1.91	0.50
45:VI:200:VAL:HG13	45:VI:268:MET:SD	2.51	0.50
45:VI:215:ARG:NH2	45:VI:299:ALA:O	2.44	0.50
46:VJ:128:ASP:OD1	46:VJ:129:CYS:N	2.44	0.50
45:VK:353:VAL:HG12	46:VN:177:ASP:HB2	1.93	0.50
45:WC:100:ALA:O	46:WD:255:VAL:HG21	2.10	0.50
46:WD:256:ASN:ND2	46:WD:350:LYS:HE3	2.26	0.50
46:WH:273:LEU:H	46:WH:292:GLN:NE2	2.08	0.50
46:WH:344:TRP:CE3	46:WH:345:ILE:HG23	2.47	0.50
8:OH:358:GLU:HG3	45:HM:370:LYS:HE2	1.93	0.50
19:1J:290:THR:HG21	46:IL:320:ARG:HE	1.75	0.50
20:1K:15:ASN:ND2	45:NC:359:PRO:HD3	2.25	0.50
10:1Q:6:PHE:HD1	45:WC:117:LEU:HD23	1.77	0.50
31:3I:220:LYS:HZ1	46:GL:336:LYS:HD3	1.76	0.50
37:5F:46:LEU:HA	37:5F:48:ARG:HH12	1.77	0.50
37:5G:108:LYS:O	37:5G:110:ARG:NH1	2.44	0.50
40:6G:181:GLY:O	40:6G:183:GLY:N	2.44	0.50
10:6Q:81:LYS:HD2	10:6Q:161:ARG:HD2	1.94	0.50
45:AC:183:GLU:N	45:AC:184:PRO:HD2	2.26	0.50
46:AD:238:CYS:SG	46:AD:239:CYS:N	2.84	0.50
45:AE:396:ASP:HB3	45:AE:422:ARG:HH12	1.76	0.50
46:AF:248:SER:HA	46:AF:252:LYS:HD2	1.93	0.50
45:AG:69:ASP:OD1	45:AG:70:LEU:N	2.44	0.50
45:AM:180:ALA:HA	46:AN:350:LYS:HE2	1.93	0.50
46:BD:67:ASP:HB3	46:BD:73:MET:HE1	1.93	0.50
46:BD:390:ARG:O	46:BD:392:LYS:NZ	2.45	0.50
45:BK:3:GLU:OE2	45:BK:131:GLY:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:17:GLY:HA2	45:CG:20:CYS:SG	2.50	0.50
45:CG:205:ASP:OD2	45:CG:303:ALA:HA	2.11	0.50
45:CG:208:ALA:O	45:CG:212:ILE:HG12	2.10	0.50
46:CH:7:ILE:HG23	46:CH:135:ILE:HD13	1.93	0.50
45:CI:205:ASP:OD1	45:CI:303:ALA:HA	2.11	0.50
45:CM:175:PRO:HG3	45:CM:390:ARG:NH1	2.26	0.50
46:CN:318:ARG:HD3	46:CN:358:PRO:HD3	1.93	0.50
45:DE:183:GLU:N	45:DE:184:PRO:HD2	2.26	0.50
46:DF:73:MET:SD	46:DF:73:MET:N	2.84	0.50
46:DF:200:MET:HG2	46:DF:266:PHE:HB2	1.92	0.50
45:DG:18:ASN:HD22	45:DG:18:ASN:H	1.57	0.50
46:DJ:31:ASP:OD1	46:DJ:35:THR:N	2.42	0.50
46:DJ:175:VAL:O	46:DJ:175:VAL:HG13	2.11	0.50
46:DJ:286:VAL:HB	46:DJ:325:GLU:OE1	2.12	0.50
46:DL:8:GLN:OE1	46:DL:17:GLY:HA3	2.11	0.50
45:DM:68:LEU:HD21	45:DM:118:CYS:SG	2.51	0.50
45:DM:89:PRO:HG2	45:EM:280:LYS:HB3	1.93	0.50
45:EC:296:PHE:CE2	45:EC:335:ILE:HG13	2.45	0.50
45:EG:224:TYR:HA	45:EG:227:LEU:HD13	1.93	0.50
45:EI:209:ILE:HD12	45:EI:227:LEU:HB3	1.93	0.50
46:EJ:19:LYS:O	46:EJ:22:GLU:HG3	2.10	0.50
45:EK:384:ILE:O	45:EK:387:VAL:HG22	2.11	0.50
45:FE:19:ALA:HA	45:FE:22:GLU:OE1	2.12	0.50
45:FE:288:VAL:HG11	45:FE:327:ASP:HB3	1.93	0.50
46:FH:117:LEU:HG	46:FH:121:ARG:HH12	1.76	0.50
45:FK:208:ALA:O	45:FK:212:ILE:HG12	2.11	0.50
46:FL:202:ILE:HD11	46:FL:268:ILE:HD11	1.92	0.50
45:GA:419:SER:O	45:GA:422:ARG:HD3	2.10	0.50
46:HB:257:LEU:HD21	46:HB:368:VAL:HG23	1.92	0.50
46:HD:16:ILE:HD13	46:HD:226:ASN:OD1	2.10	0.50
46:HH:190:HIS:CD2	46:HH:411:ALA:HA	2.47	0.50
45:HM:141:VAL:HG11	45:HM:172:TYR:CD1	2.46	0.50
45:IA:408:TYR:O	45:IA:413:MET:HB3	2.11	0.50
45:JC:224:TYR:HD1	45:JC:227:LEU:HD12	1.76	0.50
45:JE:101:ASN:OD1	46:JF:252:LYS:NZ	2.41	0.50
45:JE:259:LEU:HD21	45:JE:316:SER:HB3	1.94	0.50
46:JF:19:LYS:NZ	46:JF:223:GLY:O	2.44	0.50
46:JJ:224:ASP:OD1	46:JJ:225:LEU:N	2.44	0.50
45:JM:174:SER:HB2	45:JM:177:VAL:O	2.11	0.50
45:JM:184:PRO:O	45:JM:188:ILE:HG12	2.11	0.50
45:KA:338:LYS:NZ	45:KA:339:ARG:HG3	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KD:116:VAL:HA	46:KD:119:VAL:HG12	1.93	0.50
46:KL:289:LEU:HD13	46:KL:365:VAL:HG23	1.94	0.50
45:LG:245:ASP:OD1	45:LG:245:ASP:N	2.43	0.50
45:LG:290:GLU:N	45:LG:290:GLU:OE1	2.45	0.50
46:LH:190:HIS:CD2	46:LH:411:ALA:HA	2.46	0.50
45:LK:434:GLU:O	45:LK:437:ILE:HG12	2.11	0.50
45:MA:224:TYR:HE2	46:MB:246:LEU:HD11	1.76	0.50
46:MB:326:VAL:O	46:MB:330:MET:HG2	2.11	0.50
45:MC:210:TYR:HB3	46:MD:324:LYS:NZ	2.25	0.50
45:MI:210:TYR:CE1	45:MI:227:LEU:HD21	2.47	0.50
46:MJ:190:HIS:CD2	46:MJ:414:ASN:HD22	2.29	0.50
46:MJ:285:THR:OG1	46:MJ:288:GLU:OE1	2.29	0.50
45:MM:311:LYS:HD2	45:MM:342:GLN:HG3	1.92	0.50
45:NC:71:GLU:HG2	45:NC:73:THR:H	1.76	0.50
45:NE:254:GLU:OE2	46:NH:99:ASN:ND2	2.44	0.50
45:NG:259:LEU:O	45:NG:380:ASN:ND2	2.44	0.50
45:NG:332:ILE:HD12	45:NG:351:PHE:CE2	2.47	0.50
45:NK:116:ASP:N	45:NK:116:ASP:OD2	2.43	0.50
45:OA:202:VAL:HA	45:OA:268:MET:O	2.11	0.50
45:OC:152:LEU:O	45:OC:155:GLU:HG3	2.11	0.50
45:OC:427:ALA:HA	45:OC:430:LYS:NZ	2.26	0.50
46:OD:52:ASN:OD1	46:OD:62:ARG:NH2	2.44	0.50
46:OF:304:ASP:HB3	46:OF:307:HIS:ND1	2.25	0.50
45:OI:119:LEU:HA	45:OI:122:ILE:HG22	1.93	0.50
46:PB:316:LEU:HG	46:PB:352:SER:HB2	1.93	0.50
45:PE:398:MET:HE3	46:PF:346:PRO:HD2	1.94	0.50
46:PF:132:GLY:HA3	46:PF:163:ILE:HG22	1.92	0.50
46:PF:153:SER:HB3	46:PF:154:LYS:HZ2	1.76	0.50
45:PK:141:VAL:HG11	45:PK:172:TYR:CD1	2.45	0.50
45:PK:346:TRP:CD1	46:PN:391:ARG:HG3	2.46	0.50
45:QA:319:TYR:CD2	45:QA:323:VAL:HG21	2.47	0.50
45:QE:269:LEU:HD22	45:QE:384:ILE:HD11	1.93	0.50
45:QG:28:HIS:NE2	45:QG:48:ALA:O	2.44	0.50
46:QJ:203:ASP:OD2	46:QJ:205:GLU:HG3	2.11	0.50
45:RA:322:ASP:OD1	45:RA:373:ARG:NH1	2.42	0.50
46:RB:135:ILE:HD11	46:RB:152:ILE:HD11	1.93	0.50
46:RB:167:PHE:HE2	46:RB:200:MET:HE2	1.76	0.50
46:RB:222:TYR:HA	46:RB:225:LEU:HD12	1.94	0.50
45:RC:334:THR:HA	45:RC:337:THR:HG22	1.93	0.50
46:RD:334:GLN:HA	46:RD:341:PHE:CE1	2.46	0.50
45:RE:174:SER:HB2	45:RE:177:VAL:O	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RE:332:ILE:HA	45:RE:335:ILE:HG12	1.94	0.50
46:RJ:68:LEU:HG	46:RJ:112:LEU:HD13	1.94	0.50
46:RJ:114:ASP:OD1	46:RJ:115:SER:N	2.43	0.50
45:RM:174:SER:HB2	45:RM:177:VAL:HB	1.93	0.50
46:RN:31:ASP:OD2	46:RN:37:HIS:ND1	2.44	0.50
46:RN:289:LEU:HD13	46:RN:365:VAL:HG23	1.92	0.50
45:SC:326:LYS:HE2	46:SD:220:PRO:HD2	1.94	0.50
45:SI:242:LEU:HD21	45:SI:251:ASP:HA	1.94	0.50
45:SK:81:GLY:C	45:SK:84:ARG:HD3	2.31	0.50
45:TA:88:HIS:HB3	45:TA:91:GLN:HG2	1.92	0.50
46:TB:210:ILE:O	46:TB:214:THR:OG1	2.14	0.50
45:TE:328:VAL:HG11	45:TE:353:VAL:HG21	1.93	0.50
46:TJ:276:ARG:NH2	46:TJ:277:GLY:HA2	2.26	0.50
46:TL:238:CYS:HA	46:TL:241:ARG:CZ	2.42	0.50
45:UG:263:PRO:HB2	45:UG:264:ARG:HH22	1.76	0.50
45:UG:326:LYS:HE2	46:UH:220:PRO:HB2	1.93	0.50
45:UK:260:VAL:HB	46:UL:397:TRP:CZ2	2.41	0.50
45:UM:32:PRO:HB3	45:UM:83:TYR:CE1	2.47	0.50
46:UN:309:ARG:NH2	46:UN:426:GLN:O	2.37	0.50
45:VA:98:ASP:CG	45:VA:100:ALA:H	2.14	0.50
45:VA:356:ASN:OD1	45:VA:357:TYR:N	2.44	0.50
46:VB:3:GLU:HB2	46:VB:62:ARG:NH2	2.26	0.50
46:VH:313:ALA:HB1	46:VH:367:PHE:HE1	1.76	0.50
46:VN:257:LEU:O	46:VN:370:ASN:ND2	2.43	0.50
45:WA:114:ILE:HA	45:WA:117:LEU:HD13	1.93	0.50
46:WF:344:TRP:HB3	46:WF:430:ALA:HB2	1.92	0.50
45:WG:118:CYS:O	45:WG:122:ILE:HG12	2.12	0.50
45:WG:244:PHE:HB2	45:WG:356:ASN:HD21	1.76	0.50
46:WL:130:LEU:HD21	46:WL:133:PHE:CE1	2.46	0.50
45:WM:175:PRO:HG2	45:WM:304:LYS:HG2	1.92	0.50
46:WN:375:GLN:C	46:WN:379:LYS:HZ2	2.14	0.50
45:DC:311:LYS:NZ	45:DC:344:VAL:HA	2.26	0.50
4:1D:95:GLN:NE2	45:EG:364:PRO:HB2	2.25	0.50
7:1G:175:THR:HB	46:LD:212:PHE:CD2	2.45	0.50
21:1L:488:LYS:HE3	46:BH:32:PRO:HB2	1.93	0.50
21:1L:901:LYS:HG2	46:CB:320:ARG:NH1	2.27	0.50
15:1X:18:ILE:HD12	46:MH:22:GLU:OE1	2.11	0.50
31:3I:204:TYR:OH	45:FK:160:ASP:OD2	2.26	0.50
36:5C:142:GLN:O	36:5C:146:VAL:HG12	2.10	0.50
39:6F:76:PRO:O	39:6F:80:ASN:ND2	2.43	0.50
39:6F:85:THR:OG1	46:JF:355:ASP:OD2	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6H:258:THR:HG21	46:FF:245:GLN:NE2	2.26	0.50
34:6R:50:ASP:HB3	34:6R:52:TYR:HD2	1.75	0.50
34:7R:112:ARG:HG3	34:7R:113:ILE:N	2.25	0.50
45:AC:326:LYS:NZ	45:AC:327:ASP:OD1	2.33	0.50
45:AE:188:ILE:HD12	45:AE:425:LEU:HD11	1.93	0.50
46:AF:173:PRO:HG2	46:AF:380:ARG:HE	1.76	0.50
46:AF:201:VAL:HG23	46:AF:301:CYS:SG	2.52	0.50
45:AG:205:ASP:OD1	45:AG:303:ALA:HA	2.11	0.50
46:AJ:229:VAL:HG12	46:AJ:233:MET:HE2	1.93	0.50
45:AK:18:ASN:OD1	45:AK:19:ALA:N	2.43	0.50
46:AL:273:LEU:H	46:AL:292:GLN:HE22	1.58	0.50
45:BA:80:THR:O	45:BA:84:ARG:NH2	2.32	0.50
46:BF:86:ARG:HH21	46:BF:87:PRO:HG2	1.75	0.50
46:BH:257:LEU:HD21	46:BH:314:SER:OG	2.11	0.50
46:CB:309:ARG:NH2	46:CB:426:GLN:O	2.37	0.50
45:CC:90:GLU:OE2	45:CC:121:ARG:NH1	2.44	0.50
46:CD:324:LYS:HD3	45:CE:222:PRO:O	2.12	0.50
46:CF:165:GLU:HG2	46:CF:250:LEU:HD21	1.92	0.50
45:CI:69:ASP:O	45:CI:94:SER:HA	2.11	0.50
45:DA:141:VAL:HG11	45:DA:172:TYR:HD1	1.76	0.50
45:DI:183:GLU:N	45:DI:184:PRO:HD2	2.27	0.50
45:DI:231:ILE:O	45:DI:235:ILE:HG12	2.12	0.50
45:DI:274:PRO:HD3	45:DI:291:ILE:HD11	1.93	0.50
46:DJ:257:LEU:HA	46:DJ:312:THR:HG21	1.94	0.50
45:DK:252:ILE:HA	45:DK:255:PHE:CE2	2.46	0.50
46:EB:313:ALA:HB1	46:EB:367:PHE:CZ	2.46	0.50
45:EC:208:ALA:O	45:EC:212:ILE:HG12	2.11	0.50
45:EC:265:ILE:HG12	45:EC:432:TYR:HE1	1.76	0.50
46:ED:222:TYR:HA	46:ED:225:LEU:HD12	1.93	0.50
46:EF:268:ILE:HG13	46:EF:300:MET:SD	2.51	0.50
45:EG:208:ALA:O	45:EG:212:ILE:HG12	2.11	0.50
46:EL:19:LYS:HG3	46:EL:226:ASN:CB	2.41	0.50
45:EM:269:LEU:HB3	45:EM:301:MET:CE	2.41	0.50
46:FD:190:HIS:ND1	46:FD:411:ALA:HA	2.27	0.50
45:FG:171:ILE:HG13	45:FG:204:LEU:HB2	1.94	0.50
45:FI:288:VAL:HG11	45:FI:327:ASP:HB3	1.93	0.50
46:FJ:150:LEU:HD21	46:FJ:154:LYS:NZ	2.26	0.50
45:GC:254:GLU:OE1	46:GF:98:GLY:HA2	2.12	0.50
45:GE:174:SER:HB2	45:GE:177:VAL:O	2.11	0.50
46:GF:167:PHE:CZ	46:GF:233:MET:HG2	2.47	0.50
45:GG:221:ARG:NH2	46:GH:321:MET:HA	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GJ:268:ILE:HG22	46:GJ:368:VAL:HG22	1.92	0.50
46:HD:180:VAL:HG13	46:HD:183:TYR:HD1	1.77	0.50
45:HG:88:HIS:HB3	45:HG:91:GLN:HG2	1.93	0.50
45:HK:141:VAL:HG11	45:HK:172:TYR:HD1	1.76	0.50
46:HN:286:VAL:C	46:HN:329:GLN:HE22	2.15	0.50
45:IA:101:ASN:HA	45:IA:144:GLY:H	1.76	0.50
46:IH:103:LYS:HG2	46:IH:108:GLU:HG2	1.93	0.50
46:IL:16:ILE:HD13	46:IL:226:ASN:OD1	2.11	0.50
45:JA:338:LYS:HZ2	45:JA:340:THR:H	1.59	0.50
45:JC:180:ALA:HB3	45:JC:183:GLU:HB2	1.92	0.50
45:JE:108:TYR:O	45:JE:112:LYS:NZ	2.42	0.50
45:JE:274:PRO:HD3	45:JE:291:ILE:HD11	1.93	0.50
45:JK:319:TYR:CD2	45:JK:323:VAL:HG11	2.46	0.50
46:JN:293:MET:HE2	46:JN:367:PHE:HB2	1.93	0.50
45:KC:227:LEU:O	45:KC:231:ILE:HG12	2.11	0.50
45:KE:258:ASN:OD1	45:KE:352:LYS:NZ	2.41	0.50
46:KF:253:LEU:O	46:KF:257:LEU:HD23	2.11	0.50
45:KK:116:ASP:OD1	45:KK:117:LEU:N	2.44	0.50
46:KL:73:MET:SD	46:KL:92:PHE:HB3	2.51	0.50
45:LE:174:SER:HB3	45:LE:177:VAL:O	2.10	0.50
46:LF:377:MET:SD	46:LF:380:ARG:NH2	2.79	0.50
45:LI:140:SER:OG	47:LI:501:GTP:O2B	2.26	0.50
46:LJ:67:ASP:OD1	46:LJ:68:LEU:N	2.43	0.50
46:LJ:175:VAL:HG13	46:LJ:205:GLU:OE2	2.11	0.50
46:LL:190:HIS:CE1	46:LL:414:ASN:HD22	2.30	0.50
46:LL:380:ARG:O	46:LL:383:GLU:HG3	2.10	0.50
46:MB:334:GLN:HA	46:MB:341:PHE:CE2	2.47	0.50
46:NB:295:ASP:OD1	46:NB:297:LYS:HG2	2.12	0.50
45:NC:358:GLN:OE1	45:NC:359:PRO:HD2	2.11	0.50
45:NI:183:GLU:N	45:NI:184:PRO:HD2	2.26	0.50
45:NK:265:ILE:HG22	45:NK:380:ASN:HD21	1.77	0.50
46:NN:342:VAL:HG22	46:NN:344:TRP:HD1	1.76	0.50
46:OD:167:PHE:CE1	46:OD:233:MET:HG2	2.46	0.50
46:OF:232:ALA:HB1	46:OF:268:ILE:HD12	1.92	0.50
46:OH:217:LEU:HD23	46:OH:219:THR:H	1.77	0.50
46:OJ:318:ARG:HH11	46:OJ:358:PRO:HG3	1.76	0.50
45:OM:192:HIS:CD2	45:OM:421:ALA:HA	2.46	0.50
46:ON:313:ALA:HB1	46:ON:367:PHE:HE1	1.75	0.50
45:PC:352:LYS:HZ3	46:PF:178:THR:HA	1.77	0.50
45:PC:386:GLU:OE2	45:PC:386:GLU:N	2.43	0.50
46:PD:92:PHE:HD1	46:PD:94:GLN:HE22	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PD:238:CYS:SG	46:PD:239:CYS:N	2.85	0.50
46:PD:342:VAL:HG13	46:PD:345:ILE:HG22	1.92	0.50
46:PF:256:ASN:HD22	46:PF:350:LYS:HE3	1.75	0.50
46:PN:327:ASP:OD1	46:PN:328:GLU:N	2.45	0.50
46:QD:178:THR:HB	46:QD:181:GLU:HG3	1.93	0.50
46:QF:214:THR:HG23	46:QF:215:LEU:HD22	1.93	0.50
45:QG:346:TRP:CD1	46:QH:391:ARG:HG3	2.46	0.50
45:QI:107:HIS:ND1	45:QI:107:HIS:O	2.45	0.50
45:QI:220:GLU:HG2	45:QI:221:ARG:HG2	1.92	0.50
45:QK:174:SER:HB3	45:QK:177:VAL:O	2.12	0.50
46:QL:9:GLY:HA2	46:QL:66:MET:O	2.11	0.50
46:QL:344:TRP:NE1	45:QM:397:LEU:O	2.44	0.50
45:QM:147:SER:HB2	45:QM:190:SER:OG	2.12	0.50
45:RA:226:ASN:HA	45:RA:229:ARG:NE	2.25	0.50
45:RE:326:LYS:HE2	46:RF:208:TYR:CD1	2.46	0.50
46:RF:221:THR:HG23	46:RF:224:ASP:H	1.76	0.50
45:RG:255:PHE:O	45:RG:259:LEU:HB2	2.11	0.50
45:RG:332:ILE:HA	45:RG:335:ILE:HD12	1.94	0.50
46:RH:178:THR:HB	46:RH:181:GLU:HG3	1.93	0.50
46:RJ:36:TYR:CZ	46:RJ:44:LEU:HD11	2.47	0.50
46:RJ:279:GLN:OE1	46:RJ:279:GLN:N	2.38	0.50
46:RL:178:THR:N	46:RL:181:GLU:OE2	2.45	0.50
46:SD:347:ASN:O	45:SE:181:VAL:HG12	2.11	0.50
45:SE:274:PRO:HG3	45:SE:286:LEU:HD23	1.93	0.50
46:SF:105:HIS:CE1	46:SF:150:LEU:HD12	2.46	0.50
46:SF:173:PRO:HG2	46:SF:380:ARG:HD3	1.94	0.50
45:SG:205:ASP:OD1	45:SG:303:ALA:HA	2.11	0.50
46:TD:267:MET:HG3	46:TD:299:MET:HE2	1.93	0.50
46:TF:1:MET:HA	45:TG:96:LYS:NZ	2.26	0.50
46:TJ:167:PHE:CZ	46:TJ:233:MET:HG2	2.46	0.50
46:TN:91:VAL:HG21	46:TN:116:VAL:HB	1.94	0.50
46:UB:254:ALA:O	46:UB:258:ILE:HG22	2.11	0.50
46:UD:164:MET:N	46:UD:197:ASP:OD2	2.44	0.50
46:UF:237:THR:HG23	46:UF:241:ARG:HE	1.76	0.50
45:UK:5:ILE:HD11	45:UK:135:PHE:CE1	2.47	0.50
46:VD:68:LEU:HD23	46:VD:143:THR:HB	1.92	0.50
45:VE:109:THR:O	45:VE:112:LYS:NZ	2.45	0.50
45:VG:121:ARG:NH1	45:VG:124:LYS:HD2	2.26	0.50
45:WA:370:LYS:HZ3	45:WA:371:VAL:N	2.10	0.50
45:WC:74:VAL:O	45:WC:77:GLU:HG3	2.11	0.50
46:WF:31:ASP:OD1	46:WF:35:THR:N	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WK:210:TYR:HE1	45:WK:227:LEU:HD11	1.76	0.50
45:WM:210:TYR:CE1	45:WM:227:LEU:HD11	2.45	0.50
3:1C:48:ARG:HH22	45:EM:221:ARG:HH11	1.58	0.50
7:1G:155:PRO:HB2	45:KA:29:GLY:HA2	1.94	0.50
14:1V:122:LYS:HD3	46:LL:390:ARG:HD2	1.92	0.50
34:4R:508:ALA:HB3	34:4R:513:HIS:CE1	2.46	0.50
35:4S:112:THR:HA	35:4S:117:LYS:HE2	1.92	0.50
35:4S:195:ASN:OD1	35:4S:196:LYS:N	2.45	0.50
15:4X:10:ARG:HD2	15:4X:11:GLU:O	2.10	0.50
36:5A:102:TYR:HA	45:KA:393:HIS:NE2	2.26	0.50
36:5B:131:ARG:HG3	36:5B:132:SER:N	2.26	0.50
36:5C:90:GLN:HE22	36:5C:98:LEU:H	1.58	0.50
37:5G:72:ASP:O	37:5G:104:MET:N	2.44	0.50
40:6G:265:LEU:HB3	45:VA:339:ARG:NH1	2.27	0.50
45:AA:254:GLU:OE1	46:AD:99:ASN:ND2	2.45	0.50
45:AE:346:TRP:CD1	46:AH:391:ARG:HG3	2.47	0.50
45:AG:260:VAL:HG13	45:AG:265:ILE:O	2.11	0.50
45:AG:371:VAL:HG12	45:AG:373:ARG:H	1.76	0.50
46:AL:39:ASP:OD2	46:AL:40:SER:N	2.44	0.50
46:AL:91:VAL:HG21	46:AL:116:VAL:HB	1.91	0.50
45:AM:195:LEU:HD21	45:AM:264:ARG:HD2	1.92	0.50
45:BA:79:ARG:NH2	45:BA:89:PRO:O	2.45	0.50
46:BB:54:ALA:HB3	46:BB:58:ARG:HG2	1.94	0.50
45:BG:239:THR:HG23	45:BG:243:ARG:HH21	1.76	0.50
46:BH:187:LEU:HD11	46:BH:408:PHE:HE2	1.77	0.50
45:BK:205:ASP:OD1	45:BK:303:ALA:HA	2.11	0.50
46:BN:342:VAL:HG13	46:BN:345:ILE:HG22	1.93	0.50
45:CA:297:GLU:OE2	45:CA:300:ASN:ND2	2.44	0.50
45:CC:89:PRO:HD2	45:DC:280:LYS:NZ	2.26	0.50
46:CD:175:VAL:HG22	46:CD:205:GLU:HB3	1.93	0.50
45:CI:136:LEU:HD23	45:CI:167:LEU:HB2	1.92	0.50
45:DA:183:GLU:N	45:DA:184:PRO:HD2	2.26	0.50
46:DB:317:PHE:HD1	46:DB:365:VAL:HG22	1.76	0.50
45:DE:231:ILE:O	45:DE:235:ILE:HG12	2.12	0.50
45:DI:17:GLY:HA2	45:DI:20:CYS:SG	2.52	0.50
45:EC:115:VAL:HG21	45:EC:156:ARG:HE	1.76	0.50
45:EC:171:ILE:O	45:EC:171:ILE:HG13	2.10	0.50
45:EC:287:SER:O	45:EC:291:ILE:HG23	2.11	0.50
46:ED:319:GLY:HA2	46:ED:357:PRO:HD3	1.94	0.50
45:EE:133:GLN:HB3	45:EE:252:ILE:HD11	1.92	0.50
46:EH:213:ARG:HE	46:EH:297:LYS:NZ	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:138:SER:HA	46:EL:169:VAL:HB	1.94	0.50
46:EL:358:PRO:HB2	46:EL:361:LEU:HB2	1.91	0.50
46:FB:55:THR:HG23	46:GB:283:ALA:HA	1.93	0.50
46:FB:241:ARG:NH1	46:FB:242:PHE:HD2	2.09	0.50
46:FF:3:GLU:OE1	46:FF:3:GLU:N	2.36	0.50
46:FF:105:HIS:CE1	46:FF:150:LEU:HD12	2.45	0.50
46:FJ:21:TRP:HA	46:FJ:24:ILE:HG22	1.92	0.50
45:GA:127:ASP:N	45:GA:127:ASP:OD1	2.43	0.50
46:GB:282:ARG:HH21	46:GB:288:GLU:CD	2.15	0.50
45:GM:292:THR:HG21	45:GM:331:SER:HB3	1.93	0.50
46:GN:117:LEU:HA	46:GN:120:VAL:HG22	1.94	0.50
45:HA:175:PRO:HG3	45:HA:390:ARG:HH21	1.77	0.50
45:HA:245:ASP:O	45:HA:356:ASN:ND2	2.45	0.50
45:HI:258:ASN:OD1	45:HI:352:LYS:NZ	2.41	0.50
45:HK:332:ILE:HD12	45:HK:351:PHE:CD1	2.46	0.50
46:HL:226:ASN:HA	46:HL:229:VAL:HG12	1.94	0.50
45:IA:205:ASP:OD1	45:IA:206:ASN:N	2.42	0.50
45:IA:268:MET:HB2	45:IA:379:SER:O	2.10	0.50
45:IE:107:HIS:ND1	45:IE:107:HIS:O	2.44	0.50
45:IM:340:THR:HG23	45:IM:341:ILE:HG13	1.93	0.50
45:JA:26:LEU:HD11	45:JA:364:PRO:HD2	1.93	0.50
45:JA:68:LEU:HD11	45:JA:118:CYS:SG	2.51	0.50
45:JG:231:ILE:O	45:JG:235:ILE:HG12	2.12	0.50
46:JH:313:ALA:HB1	46:JH:367:PHE:HE1	1.76	0.50
46:JJ:182:PRO:HD2	46:JJ:388:MET:HE1	1.94	0.50
46:KB:201:VAL:HG22	46:KB:266:PHE:O	2.11	0.50
45:KC:244:PHE:HB2	45:KC:356:ASN:HD21	1.76	0.50
45:KG:326:LYS:HZ3	46:KJ:208:TYR:HB3	1.76	0.50
46:LB:139:LEU:HD12	46:LB:170:VAL:HG12	1.94	0.50
45:LE:387:VAL:HG12	45:LE:390:ARG:HH21	1.76	0.50
46:LF:139:LEU:HD22	46:LF:188:SER:HB2	1.93	0.50
45:LG:141:VAL:HG21	45:LG:172:TYR:CE2	2.47	0.50
45:LG:221:ARG:NH1	46:LH:322:SER:OG	2.45	0.50
45:LI:217:LEU:HB3	45:LI:219:ILE:HG13	1.94	0.50
45:LI:407:TRP:CH2	46:LJ:258:ILE:HG13	2.46	0.50
46:LL:190:HIS:HE1	46:LL:414:ASN:HD22	1.59	0.50
45:LM:88:HIS:CE1	45:LM:90:GLU:HG2	2.46	0.50
45:MC:195:LEU:HD21	45:MC:264:ARG:HD2	1.94	0.50
45:MC:210:TYR:HE1	45:MC:227:LEU:HD21	1.77	0.50
46:MF:334:GLN:HE22	46:MF:348:ASN:H	1.57	0.50
45:MG:55:GLU:OE2	45:MG:61:HIS:NE2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MG:155:GLU:HA	45:MG:197:HIS:CE1	2.47	0.50
46:MJ:318:ARG:HH11	46:MJ:318:ARG:HG2	1.76	0.50
45:MK:7:ILE:HB	45:MK:137:VAL:HG12	1.93	0.50
45:NC:202:VAL:HG23	45:NC:204:LEU:HD23	1.94	0.50
46:NL:134:GLN:HB2	46:NL:165:GLU:OE2	2.10	0.50
46:NN:105:HIS:CD2	46:NN:150:LEU:HB2	2.46	0.50
45:OE:348:PRO:HG3	46:OH:384:GLN:HG3	1.92	0.50
46:OF:248:SER:HA	46:OF:252:LYS:HD2	1.92	0.50
46:OH:238:CYS:SG	46:OH:239:CYS:N	2.84	0.50
46:PB:289:LEU:HD13	46:PB:365:VAL:HG23	1.93	0.50
46:PH:65:LEU:HD11	46:PH:85:PHE:CD2	2.47	0.50
46:PH:285:THR:HB	46:PH:287:PRO:HD2	1.92	0.50
46:PJ:64:ILE:HA	46:PJ:89:ASN:HB3	1.93	0.50
46:PJ:86:ARG:HB3	46:PJ:89:ASN:OD1	2.10	0.50
45:PK:200:VAL:HG13	45:PK:268:MET:SD	2.51	0.50
46:PL:112:LEU:HD21	46:PL:147:MET:HE3	1.94	0.50
46:QH:405:GLU:OE1	46:QH:405:GLU:N	2.42	0.50
45:QI:352:LYS:NZ	46:QJ:179:VAL:HG22	2.27	0.50
45:QK:277:SER:H	45:QK:280:LYS:NZ	2.10	0.50
45:QM:75:ILE:O	45:QM:79:ARG:HG3	2.11	0.50
45:QM:268:MET:CE	45:QM:378:ILE:HG22	2.42	0.50
45:QM:268:MET:HE3	45:QM:378:ILE:HG22	1.93	0.50
46:RB:12:CYS:O	46:RB:16:ILE:HD12	2.11	0.50
45:RC:329:ASN:HA	45:RC:332:ILE:HG12	1.93	0.50
45:RC:359:PRO:HB2	45:RC:370:LYS:NZ	2.27	0.50
46:RD:196:ALA:O	46:RD:264:HIS:NE2	2.44	0.50
45:RE:319:TYR:HB3	45:RE:323:VAL:HG21	1.94	0.50
45:SC:135:PHE:HE2	45:SC:164:LYS:HG2	1.76	0.50
46:SF:201:VAL:HG23	46:SF:301:CYS:SG	2.51	0.50
45:TC:49:PHE:HD1	45:TC:53:PHE:HB2	1.76	0.50
45:TG:121:ARG:NH1	45:TG:124:LYS:HD2	2.27	0.50
45:TG:183:GLU:N	45:TG:184:PRO:HD2	2.27	0.50
45:TG:184:PRO:O	45:TG:188:ILE:HG12	2.12	0.50
46:TL:21:TRP:CE3	46:TL:24:ILE:HD11	2.46	0.50
45:TM:27:GLU:HG3	45:TM:243:ARG:HH12	1.76	0.50
45:UC:35:GLN:HE22	45:UC:60:LYS:HB2	1.77	0.50
45:UI:352:LYS:NZ	46:UJ:179:VAL:H	2.08	0.50
46:UJ:3:GLU:OE1	46:UJ:127:CYS:HB2	2.10	0.50
46:UJ:87:PRO:HA	46:UJ:90:PHE:HD2	1.77	0.50
46:UL:186:THR:HA	46:UL:189:VAL:HG12	1.93	0.50
46:UL:276:ARG:HA	46:UL:279:GLN:HE22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:327:ASP:OD1	46:VB:328:GLU:N	2.44	0.50
45:VG:31:GLN:HE22	45:VG:37:PRO:HD3	1.76	0.50
46:VH:127:CYS:SG	46:VH:130:LEU:HB2	2.51	0.50
45:WA:22:GLU:HG3	45:WA:83:TYR:OH	2.11	0.50
45:WA:142:GLY:HA3	45:WA:183:GLU:HG3	1.94	0.50
46:WB:19:LYS:NZ	46:WB:227:HIS:HB2	2.26	0.50
45:WC:221:ARG:HH22	46:WD:321:MET:HB3	1.76	0.50
45:WE:350:GLY:HA2	46:WH:179:VAL:HG12	1.93	0.50
46:WF:22:GLU:OE1	46:WF:80:PRO:HB2	2.12	0.50
45:WI:346:TRP:CD1	46:WL:391:ARG:HG3	2.46	0.50
45:WK:256:GLN:NE2	46:WN:397:TRP:HH2	2.09	0.50
8:1H:139:ARG:CZ	45:HI:370:LYS:HG3	2.40	0.50
24:1P:222:LEU:HB2	45:TG:282:TYR:CE2	2.45	0.50
12:1T:225:SER:N	45:MC:196:GLU:OE2	2.39	0.50
31:2I:96:TRP:CZ2	46:GF:291:GLN:HG2	2.47	0.50
34:5R:103:VAL:HG21	34:5R:106:ASN:HD22	1.77	0.50
34:6R:427:GLU:OE1	34:6R:506:LEU:HB3	2.11	0.50
34:7R:547:GLU:HA	34:7R:550:VAL:HG12	1.94	0.50
45:AA:208:ALA:O	45:AA:212:ILE:HG12	2.11	0.50
45:AC:121:ARG:NH1	45:AC:124:LYS:HD2	2.26	0.50
45:AE:175:PRO:HG3	45:AE:390:ARG:NH2	2.26	0.50
45:BA:171:ILE:HG23	45:BA:204:LEU:O	2.12	0.50
45:BG:145:THR:OG1	47:BG:501:GTP:O1B	2.29	0.50
46:BN:287:PRO:HD3	46:BN:325:GLU:OE1	2.11	0.50
46:CF:273:LEU:H	46:CF:292:GLN:HE22	1.58	0.50
45:CG:47:ASP:O	45:CG:50:ASN:HB2	2.11	0.50
46:CJ:105:HIS:CE1	46:CJ:150:LEU:HD12	2.46	0.50
46:CL:44:LEU:HA	46:CL:47:ILE:HG23	1.94	0.50
46:CL:237:THR:OG1	46:CL:241:ARG:NH2	2.44	0.50
46:CL:309:ARG:NH2	46:CL:426:GLN:O	2.38	0.50
46:DB:347:ASN:O	45:DC:181:VAL:HG12	2.12	0.50
46:DF:3:GLU:HG3	46:DF:62:ARG:NH1	2.27	0.50
46:DH:266:PHE:CE2	46:DH:370:ASN:HB2	2.47	0.50
45:DI:184:PRO:O	45:DI:188:ILE:HG12	2.11	0.50
46:DJ:250:LEU:HD12	46:DJ:250:LEU:H	1.76	0.50
46:DL:255:VAL:HG12	45:DM:407:TRP:CE3	2.46	0.50
45:EE:37:PRO:HG2	45:EE:40:LYS:H	1.76	0.50
45:EG:229:ARG:NH1	45:EG:366:GLY:HA2	2.26	0.50
45:EG:239:THR:HG23	45:EG:243:ARG:HH21	1.77	0.50
46:EH:175:VAL:HG13	46:EH:205:GLU:HG2	1.93	0.50
45:EI:51:THR:HG22	45:EI:52:PHE:CD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EI:188:ILE:HG23	45:EI:425:LEU:HD11	1.93	0.50
45:EK:227:LEU:O	45:EK:231:ILE:HG12	2.12	0.50
46:EN:167:PHE:HE2	46:EN:233:MET:HG2	1.77	0.50
46:FD:374:ILE:HG22	46:FD:422:TYR:CZ	2.47	0.50
45:FG:233:GLN:HG2	45:FG:272:TYR:HE1	1.76	0.50
45:FI:319:TYR:HB3	45:FI:323:VAL:HG11	1.93	0.50
45:FK:55:GLU:OE1	45:FK:61:HIS:NE2	2.44	0.50
45:FK:181:VAL:HG22	46:FL:256:ASN:OD1	2.12	0.50
46:GF:7:ILE:CD1	46:GF:64:ILE:HB	2.42	0.50
46:GF:66:MET:HA	46:GF:91:VAL:O	2.12	0.50
45:GI:326:LYS:HE3	46:GL:212:PHE:CE1	2.46	0.50
46:GJ:139:LEU:HD13	46:GJ:168:SER:HB3	1.92	0.50
45:GK:178:SER:HB2	46:GL:347:ASN:HD22	1.75	0.50
46:GL:309:ARG:NH2	46:GL:426:GLN:O	2.36	0.50
45:HC:211:ASP:OD1	45:HC:215:ARG:NH1	2.45	0.50
45:HG:56:THR:HG23	45:HG:58:ALA:H	1.76	0.50
46:HN:132:GLY:HA3	46:HN:163:ILE:O	2.11	0.50
46:HN:290:THR:CG2	46:HN:329:GLN:HE21	2.25	0.50
45:IA:5:ILE:HG22	45:IA:64:ARG:HG2	1.94	0.50
45:IA:346:TRP:CD1	46:ID:391:ARG:HG3	2.47	0.50
46:IF:198:GLU:HG2	46:IF:266:PHE:CE2	2.47	0.50
46:IH:201:VAL:O	46:IH:202:ILE:HD13	2.10	0.50
46:IJ:6:HIS:CE1	46:IJ:21:TRP:HE1	2.29	0.50
45:IK:185:TYR:HE1	45:IK:398:MET:HG3	1.77	0.50
45:IM:74:VAL:O	45:IM:77:GLU:HG3	2.12	0.50
46:IN:372:THR:HA	46:IN:422:TYR:HE2	1.76	0.50
45:JA:215:ARG:HH22	45:JA:300:ASN:CA	2.25	0.50
46:JD:296:ALA:HB3	46:JD:297:LYS:NZ	2.25	0.50
46:JH:148:GLY:O	46:JH:152:ILE:HG12	2.11	0.50
46:JH:201:VAL:HG23	46:JH:301:CYS:SG	2.52	0.50
45:JK:372:MET:SD	45:JK:373:ARG:HG3	2.52	0.50
45:JM:17:GLY:HA2	45:JM:20:CYS:SG	2.52	0.50
45:JM:31:GLN:OE1	45:JM:37:PRO:HD3	2.11	0.50
45:JM:175:PRO:HG2	45:JM:304:LYS:HG2	1.93	0.50
46:JN:148:GLY:O	46:JN:152:ILE:HG13	2.10	0.50
45:KC:204:LEU:HD12	45:KC:231:ILE:HD12	1.93	0.50
46:KF:350:LYS:NZ	46:KF:352:SER:OG	2.45	0.50
45:KG:75:ILE:O	45:KG:79:ARG:HG3	2.12	0.50
46:KH:2:ARG:HB2	46:KH:131:GLN:HG3	1.94	0.50
46:KL:20:PHE:HA	46:KL:230:SER:HB2	1.93	0.50
45:KM:75:ILE:HG21	45:KM:94:SER:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KN:375:GLN:HB2	46:KN:419:VAL:HG23	1.92	0.50
45:LE:208:ALA:O	45:LE:212:ILE:HG12	2.11	0.50
46:LF:48:ASN:O	46:LF:62:ARG:NH1	2.44	0.50
46:LF:280:GLN:N	46:LF:280:GLN:OE1	2.45	0.50
45:MC:98:ASP:OD1	45:MC:99:ALA:N	2.44	0.50
46:ML:5:VAL:HG12	46:ML:62:ARG:HD3	1.94	0.50
46:NB:304:ASP:HB3	46:NB:307:HIS:ND1	2.26	0.50
45:NI:88:HIS:O	45:NI:91:GLN:HG2	2.12	0.50
45:NK:147:SER:HB2	45:NK:190:SER:OG	2.11	0.50
45:NK:183:GLU:N	45:NK:184:PRO:HD2	2.25	0.50
45:NM:211:ASP:O	45:NM:215:ARG:HG2	2.10	0.50
46:NN:19:LYS:HD3	46:NN:22:GLU:OE2	2.11	0.50
45:OA:231:ILE:O	45:OA:235:ILE:HG12	2.11	0.50
45:OE:166:LYS:HG3	45:OE:199:ASP:H	1.76	0.50
45:OE:398:MET:HE1	46:OF:346:PRO:HD2	1.94	0.50
45:OK:336:LYS:O	45:OK:339:ARG:NH2	2.44	0.50
45:PA:105:ARG:CZ	45:PA:110:ILE:HD11	2.42	0.50
45:PA:320:ARG:HG2	45:PA:358:GLN:O	2.11	0.50
45:PE:177:VAL:HG21	46:PF:327:ASP:HB3	1.93	0.50
45:PE:328:VAL:O	45:PE:332:ILE:HG12	2.11	0.50
45:PM:328:VAL:HG11	45:PM:353:VAL:HG21	1.94	0.50
45:QC:176:GLN:OE1	45:QC:304:LYS:NZ	2.44	0.50
45:QE:69:ASP:OD1	45:QE:70:LEU:N	2.44	0.50
45:QE:208:ALA:O	45:QE:212:ILE:HG12	2.12	0.50
46:QF:11:GLN:HE21	49:QF:501:GDP:PA	2.34	0.50
45:QL:183:GLU:N	45:QL:184:PRO:HD2	2.27	0.50
46:QL:141:GLY:HA3	49:QL:501:GDP:PB	2.52	0.50
46:QL:325:GLU:HA	46:QL:328:GLU:OE2	2.11	0.50
45:QM:183:GLU:N	45:QM:184:PRO:HD2	2.27	0.50
46:RB:309:ARG:HE	46:RB:426:GLN:HG3	1.77	0.50
45:RC:319:TYR:CD2	45:RC:375:VAL:HG12	2.46	0.50
45:RE:256:GLN:HB2	46:RF:397:TRP:CH2	2.46	0.50
45:RI:27:GLU:OE2	45:RI:236:SER:OG	2.24	0.50
45:RI:183:GLU:N	45:RI:184:PRO:HD2	2.26	0.50
45:RI:188:ILE:HD12	45:RI:425:LEU:HD11	1.94	0.50
46:RJ:2:ARG:NH1	45:RK:72:PRO:HD2	2.26	0.50
46:RL:5:VAL:HG12	46:RL:62:ARG:HD3	1.94	0.50
46:RL:11:GLN:OE1	46:RL:15:GLN:NE2	2.44	0.50
45:RM:340:THR:HG23	45:RM:341:ILE:HG13	1.94	0.50
45:SI:72:PRO:HA	45:SI:75:ILE:HG22	1.94	0.50
45:SK:328:VAL:HG11	45:SK:353:VAL:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TA:217:LEU:HD21	45:TA:368:LEU:HD22	1.94	0.50
45:TC:135:PHE:HB2	45:TC:166:LYS:HG3	1.93	0.50
45:TC:414:GLU:OE1	45:TC:415:GLU:N	2.45	0.50
45:TE:183:GLU:N	45:TE:184:PRO:HD2	2.26	0.50
46:TF:394:PHE:HA	46:TF:397:TRP:CZ3	2.46	0.50
46:TL:186:THR:O	46:TL:415:MET:HE1	2.11	0.50
45:TM:141:VAL:HG22	45:TM:187:SER:HA	1.93	0.50
46:UB:3:GLU:CD	46:UB:3:GLU:H	2.14	0.50
46:UB:128:ASP:OD1	46:UB:129:CYS:N	2.40	0.50
45:UC:172:TYR:CE1	45:UC:203:MET:HA	2.44	0.50
45:UG:201:ALA:HB3	45:UG:267:PHE:HD2	1.76	0.50
45:UI:337:THR:O	45:UI:339:ARG:NH1	2.45	0.50
46:UJ:87:PRO:HA	46:UJ:90:PHE:CD2	2.46	0.50
45:UK:8:HIS:HB2	45:UK:67:PHE:HD2	1.76	0.50
46:VJ:103:LYS:HG3	46:VJ:108:GLU:OE1	2.11	0.50
45:VK:422:ARG:O	45:VK:422:ARG:NH1	2.45	0.50
45:VM:288:VAL:HA	45:VM:291:ILE:HG12	1.94	0.50
46:VN:190:HIS:O	46:VN:193:VAL:HG12	2.12	0.50
45:WA:346:TRP:CD1	46:WD:391:ARG:HG3	2.47	0.50
46:WB:175:VAL:HG22	46:WB:205:GLU:HB3	1.93	0.50
45:WE:407:TRP:CZ2	46:WF:258:ILE:HD11	2.45	0.50
45:WG:336:LYS:O	45:WG:339:ARG:NH2	2.44	0.50
46:WL:6:HIS:HD2	46:WL:21:TRP:HE1	1.59	0.50
45:WM:292:THR:HG21	45:WM:331:SER:HB3	1.94	0.50
46:WN:375:GLN:HG3	46:WN:422:TYR:HD2	1.75	0.50
45:DC:208:ALA:O	45:DC:212:ILE:HG12	2.11	0.50
18:1I:8:LEU:HD13	46:JD:218:THR:HG23	1.94	0.50
21:1L:901:LYS:H	46:CB:320:ARG:HH12	1.58	0.50
30:2H:185:GLU:OE2	46:AD:359:LYS:NZ	2.45	0.50
23:3O:373:ARG:HH12	45:UI:281:ALA:N	2.08	0.50
11:3S:96:LEU:HD22	46:MN:410:GLU:HG2	1.94	0.50
33:4F:14:TYR:OH	46:GJ:53:GLU:OE1	2.29	0.50
34:5R:531:THR:HB	34:5R:588:LEU:HD11	1.92	0.50
34:6R:231:TYR:CZ	46:CN:216:LYS:HG3	2.47	0.50
34:7R:389:ASN:N	46:EB:276:ARG:HH22	2.10	0.50
45:AC:28:HIS:CE1	45:AC:49:PHE:HA	2.47	0.50
45:AC:69:ASP:OD1	45:AC:70:LEU:N	2.44	0.50
46:AH:267:MET:HG3	46:AH:299:MET:HE2	1.94	0.50
46:AH:285:THR:HB	46:AH:287:PRO:HD2	1.94	0.50
46:AL:12:CYS:O	46:AL:16:ILE:HG12	2.12	0.50
45:BA:210:TYR:CG	46:BB:324:LYS:HD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BE:274:PRO:HG3	45:BE:286:LEU:HD13	1.94	0.50
46:BJ:301:CYS:HB3	46:BJ:377:MET:HE1	1.92	0.50
46:CD:67:ASP:OD2	46:CD:69:GLU:HG2	2.11	0.50
46:CF:294:PHE:CE2	46:CF:333:VAL:HG11	2.47	0.50
46:CJ:86:ARG:HB3	46:CJ:88:ASP:OD1	2.12	0.50
46:CL:238:CYS:SG	46:CL:239:CYS:N	2.85	0.50
46:DB:133:PHE:HB2	46:DB:164:MET:SD	2.52	0.50
45:DG:74:VAL:O	45:DG:78:VAL:HG23	2.11	0.50
45:EG:37:PRO:HG2	45:EG:40:LYS:HD3	1.93	0.50
46:EH:386:THR:O	46:EH:390:ARG:HG3	2.11	0.50
45:EI:208:ALA:O	45:EI:212:ILE:HG12	2.11	0.50
45:EK:195:LEU:HD22	45:EK:428:LEU:HD11	1.93	0.50
45:EM:185:TYR:O	45:EM:189:LEU:HG	2.12	0.50
46:FF:192:LEU:HD21	46:FF:199:CYS:SG	2.52	0.50
46:FJ:55:THR:HG23	46:GJ:283:ALA:HA	1.92	0.50
46:FJ:262:ARG:NH1	46:FJ:421:GLU:OE1	2.45	0.50
45:FK:174:SER:HB2	45:FK:177:VAL:HB	1.93	0.50
45:FM:135:PHE:HB2	45:FM:166:LYS:HG2	1.94	0.50
46:GF:285:THR:OG1	46:GF:288:GLU:OE1	2.30	0.50
45:GG:384:ILE:O	45:GG:387:VAL:HG22	2.11	0.50
45:GK:414:GLU:CD	45:GK:416:GLY:H	2.13	0.50
45:HC:260:VAL:HG13	45:HC:265:ILE:O	2.10	0.50
46:HJ:39:ASP:OD1	46:HJ:40:SER:N	2.45	0.50
46:HN:240:LEU:HD12	46:HN:249:ASP:HB2	1.93	0.50
45:IA:260:VAL:H	46:ID:397:TRP:HH2	1.59	0.50
46:ID:248:SER:HB2	46:ID:252:LYS:HG2	1.94	0.50
46:ID:309:ARG:NH2	46:ID:426:GLN:O	2.30	0.50
46:IH:232:ALA:HB1	46:IH:268:ILE:HD12	1.92	0.50
45:II:10:GLY:O	45:II:14:ILE:HG12	2.12	0.50
46:IJ:86:ARG:HH11	46:IJ:87:PRO:HD2	1.77	0.50
46:IJ:114:ASP:OD1	46:IJ:115:SER:N	2.44	0.50
45:IK:121:ARG:HA	45:IK:124:LYS:HZ3	1.74	0.50
45:IK:245:ASP:N	45:IK:245:ASP:OD2	2.43	0.50
45:JA:68:LEU:HD23	45:JA:93:ILE:HB	1.92	0.50
45:JC:173:PRO:HB3	45:JC:183:GLU:OE2	2.11	0.50
45:JE:183:GLU:N	45:JE:184:PRO:HD2	2.27	0.50
46:JF:289:LEU:HD13	46:JF:365:VAL:HG23	1.94	0.50
45:JM:288:VAL:HG11	45:JM:327:ASP:HB3	1.94	0.50
46:JN:19:LYS:HD3	46:JN:227:HIS:CD2	2.46	0.50
45:KA:313:MET:HE1	45:KA:382:THR:HG23	1.93	0.50
46:KB:86:ARG:NH1	46:KB:86:ARG:HA	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KH:150:LEU:O	46:KH:154:LYS:HG2	2.12	0.50
46:KN:121:ARG:O	46:KN:125:GLU:HG2	2.12	0.50
45:LA:183:GLU:N	45:LA:184:PRO:HD2	2.26	0.50
46:LD:135:ILE:HG13	46:LD:152:ILE:HD11	1.92	0.50
46:LL:20:PHE:HA	46:LL:230:SER:OG	2.12	0.50
46:MJ:97:ALA:HB3	46:MJ:143:THR:HB	1.94	0.50
45:MM:183:GLU:N	45:MM:184:PRO:HD2	2.26	0.50
45:NC:116:ASP:N	45:NC:116:ASP:OD2	2.43	0.50
45:NE:328:VAL:O	45:NE:332:ILE:HG12	2.11	0.50
45:NG:331:SER:O	45:NG:335:ILE:HG12	2.12	0.50
46:NJ:36:TYR:CZ	46:NJ:44:LEU:HD21	2.47	0.50
46:NJ:167:PHE:CZ	46:NJ:233:MET:HG2	2.47	0.50
46:NL:67:ASP:OD2	46:NL:68:LEU:N	2.44	0.50
45:OA:389:SER:O	45:OA:393:HIS:ND1	2.39	0.50
46:OD:2:ARG:HA	46:OD:131:GLN:NE2	2.25	0.50
45:OK:396:ASP:OD2	45:OK:422:ARG:NH1	2.44	0.50
45:PA:147:SER:HB2	45:PA:190:SER:HB3	1.92	0.50
46:PB:282:ARG:NH2	46:PB:292:GLN:OE1	2.42	0.50
45:PC:221:ARG:HH22	46:PD:286:VAL:HG21	1.77	0.50
45:PC:331:SER:O	45:PC:335:ILE:HG12	2.12	0.50
46:PH:406:MET:O	46:PH:410:GLU:HG2	2.11	0.50
45:PI:331:SER:O	45:PI:335:ILE:HG12	2.11	0.50
46:PL:309:ARG:NH2	46:PL:426:GLN:O	2.35	0.50
46:QD:285:THR:HA	46:QD:363:MET:HE1	1.93	0.50
45:QE:211:ASP:HA	45:QE:214:ARG:HG2	1.93	0.50
46:QL:6:HIS:CD2	46:QL:8:GLN:NE2	2.79	0.50
46:QL:312:THR:HA	46:QL:348:ASN:HB3	1.93	0.50
46:QN:268:ILE:HG22	46:QN:368:VAL:HG22	1.93	0.50
46:RB:313:ALA:HB1	46:RB:367:PHE:CE1	2.46	0.50
45:RC:224:TYR:HD1	45:RC:227:LEU:HD12	1.76	0.50
45:RE:27:GLU:CD	45:RE:243:ARG:HH12	2.15	0.50
45:RE:188:ILE:HG23	45:RE:425:LEU:HD11	1.94	0.50
46:RF:375:GLN:NE2	46:RF:423:GLN:HB3	2.27	0.50
46:RH:54:ALA:HA	46:SH:283:ALA:HB2	1.94	0.50
45:RK:76:ASP:HA	45:RK:79:ARG:HG2	1.94	0.50
46:RL:186:THR:HA	46:RL:189:VAL:HG22	1.93	0.50
46:RL:289:LEU:HD13	46:RL:365:VAL:HG23	1.94	0.50
46:RN:6:HIS:O	46:RN:63:ALA:HA	2.12	0.50
46:SJ:87:PRO:HA	46:SJ:90:PHE:HD2	1.76	0.50
45:TC:82:THR:HG23	45:TC:83:TYR:HD1	1.76	0.50
46:TD:415:MET:HA	46:TD:418:LEU:HG	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UE:195:LEU:O	45:UE:266:HIS:NE2	2.40	0.50
46:UF:10:GLY:O	46:UF:14:ASN:ND2	2.45	0.50
45:UG:390:ARG:HD2	45:UG:391:LEU:HD22	1.94	0.50
46:UL:19:LYS:HD2	46:UL:19:LYS:N	2.26	0.50
45:VA:387:VAL:HG23	45:VA:388:PHE:CD2	2.47	0.50
45:VG:80:THR:O	45:VG:84:ARG:NH2	2.40	0.50
46:VH:54:ALA:HB3	46:VH:58:ARG:HG2	1.93	0.50
46:VJ:67:ASP:O	46:VJ:92:PHE:HA	2.11	0.50
45:VK:356:ASN:OD1	45:VK:357:TYR:N	2.43	0.50
46:VL:309:ARG:NH2	46:VL:426:GLN:O	2.38	0.50
46:WB:67:ASP:OD2	46:WB:72:THR:OG1	2.29	0.50
45:WC:68:LEU:HD23	45:WC:149:LEU:HD21	1.94	0.50
45:WE:172:TYR:HD1	45:WE:173:PRO:HD2	1.75	0.50
45:WE:183:GLU:N	45:WE:184:PRO:HD2	2.27	0.50
46:WH:67:ASP:OD1	46:WH:68:LEU:N	2.44	0.50
46:WH:306:ARG:NH1	46:WH:306:ARG:HB2	2.26	0.50
45:WI:31:GLN:NE2	45:WI:37:PRO:HD3	2.22	0.50
46:WN:150:LEU:HG	46:WN:154:LYS:NZ	2.26	0.50
9:ON:10:TYR:OH	46:IN:52:ASN:OD1	2.28	0.50
3:1C:86:LYS:NZ	45:EM:81:GLY:HA2	2.26	0.50
21:2L:575:LYS:HZ3	45:AM:85:GLN:HG2	1.77	0.50
1:3A:128:HIS:HA	46:AN:362:LYS:CE	2.42	0.50
35:4S:114:GLU:CD	35:4S:115:PRO:HA	2.32	0.50
15:4X:57:LYS:O	15:4X:60:GLU:HG3	2.12	0.50
37:5F:126:LEU:HD13	45:OE:285:GLN:NE2	2.27	0.50
34:5R:309:LEU:HD11	34:5R:342:ILE:HG23	1.92	0.50
45:AA:414:GLU:CD	45:AA:416:GLY:H	2.15	0.50
45:AI:201:ALA:HB3	45:AI:267:PHE:HD2	1.76	0.50
46:AJ:60:VAL:HG12	46:AJ:86:ARG:HH11	1.77	0.50
46:AN:192:LEU:HD21	46:AN:199:CYS:SG	2.51	0.50
46:BB:67:ASP:O	46:BB:92:PHE:HA	2.11	0.50
46:BL:68:LEU:HB3	46:BL:96:GLY:HA2	1.93	0.50
46:BL:105:HIS:CD2	46:BL:150:LEU:HD12	2.47	0.50
46:BL:372:THR:HA	46:BL:422:TYR:HE1	1.76	0.50
45:BM:181:VAL:HG13	45:BM:182:VAL:HG13	1.92	0.50
45:CA:329:ASN:HA	45:CA:332:ILE:HG22	1.93	0.50
46:CB:211:CYS:HA	46:CB:215:LEU:HB2	1.93	0.50
46:CD:39:ASP:OD1	46:CD:39:ASP:N	2.42	0.50
45:CG:21:TRP:CZ2	45:CG:65:ALA:HB2	2.47	0.50
45:CK:141:VAL:HG11	45:CK:172:TYR:HA	1.93	0.50
46:CN:237:THR:HG23	46:CN:241:ARG:HH21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:52:ASN:OD1	46:DF:62:ARG:NH2	2.45	0.50
45:DI:288:VAL:HA	45:DI:291:ILE:HG22	1.92	0.50
45:DK:387:VAL:O	45:DK:390:ARG:HG2	2.11	0.50
46:DL:314:SER:HA	46:DL:350:LYS:HB2	1.94	0.50
45:EA:340:THR:HG23	45:EA:341:ILE:HG13	1.92	0.50
46:EF:3:GLU:OE2	46:EF:127:CYS:HB2	2.12	0.50
46:EF:173:PRO:HB3	46:EF:384:GLN:HE22	1.77	0.50
45:EG:118:CYS:O	45:EG:122:ILE:HG12	2.12	0.50
45:EI:217:LEU:HD13	45:EI:367:ASP:HB3	1.92	0.50
45:FA:387:VAL:O	45:FA:390:ARG:HG2	2.11	0.50
46:FB:42:LEU:HB3	46:FB:242:PHE:HE1	1.76	0.50
45:FC:223:THR:HG23	45:FC:225:THR:H	1.77	0.50
46:FF:229:VAL:O	46:FF:233:MET:HG3	2.11	0.50
46:FH:318:ARG:HH11	46:FH:358:PRO:HG3	1.77	0.50
45:FI:187:SER:O	45:FI:191:THR:HG23	2.11	0.50
45:FK:396:ASP:OD1	45:FK:422:ARG:NE	2.45	0.50
46:FN:288:GLU:O	46:FN:291:GLN:HG3	2.12	0.50
45:GA:271:SER:HA	45:GA:302:MET:HG2	1.93	0.50
46:GB:133:PHE:HB2	46:GB:164:MET:SD	2.52	0.50
46:GB:272:PRO:HD3	46:GB:364:ALA:HA	1.92	0.50
45:GC:184:PRO:O	45:GC:188:ILE:HG12	2.11	0.50
45:GE:201:ALA:HB3	45:GE:267:PHE:HD1	1.77	0.50
45:GK:258:ASN:ND2	45:GK:352:LYS:HE3	2.26	0.50
45:HA:188:ILE:HG13	45:HA:425:LEU:HD11	1.94	0.50
46:HD:6:HIS:HE2	46:HD:8:GLN:HB3	1.76	0.50
46:HF:163:ILE:CD1	46:HF:250:LEU:HD11	2.41	0.50
46:HL:268:ILE:HG22	46:HL:368:VAL:HG22	1.94	0.50
46:HL:329:GLN:O	46:HL:333:VAL:HG23	2.12	0.50
45:HM:183:GLU:N	45:HM:184:PRO:HD2	2.27	0.50
45:IA:55:GLU:HG3	45:IA:57:GLY:H	1.76	0.50
45:IC:268:MET:N	45:IC:268:MET:SD	2.85	0.50
46:IH:47:ILE:HD12	46:IH:59:TYR:CE1	2.47	0.50
46:IH:290:THR:HA	46:IH:293:MET:HG2	1.92	0.50
46:IL:201:VAL:O	46:IL:202:ILE:HD13	2.10	0.50
46:IN:208:TYR:CE2	46:IN:225:LEU:HD11	2.46	0.50
46:JF:19:LYS:NZ	46:JF:227:HIS:HB2	2.27	0.50
46:JF:101:TRP:CE3	46:JF:187:LEU:HD23	2.47	0.50
46:JF:309:ARG:NH2	46:JF:426:GLN:O	2.36	0.50
45:JI:70:LEU:HA	45:JI:95:GLY:HA3	1.94	0.50
45:JK:319:TYR:HB3	45:JK:323:VAL:HG21	1.94	0.50
45:JM:20:CYS:HA	45:JM:232:ALA:HB1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JN:267:MET:CE	46:JN:299:MET:HB3	2.42	0.50
45:KA:239:THR:HG22	45:KA:243:ARG:HE	1.77	0.50
46:KD:267:MET:HG3	46:KD:299:MET:HE2	1.94	0.50
46:KD:285:THR:HB	46:KD:287:PRO:HD2	1.94	0.50
45:KG:222:PRO:HD2	46:KH:324:LYS:CE	2.25	0.50
46:KL:284:LEU:HD11	46:KL:362:LYS:HB2	1.94	0.50
45:KM:318:MET:HB2	45:KM:376:CYS:HG	1.75	0.50
46:KN:67:ASP:O	46:KN:92:PHE:HA	2.12	0.50
46:KN:165:GLU:OE2	46:KN:250:LEU:HD13	2.12	0.50
46:LD:86:ARG:NE	46:LD:87:PRO:HD2	2.27	0.50
45:LG:208:ALA:O	45:LG:212:ILE:HG12	2.11	0.50
46:LJ:7:ILE:HG22	46:LJ:64:ILE:HB	1.94	0.50
45:LM:205:ASP:CG	45:LM:304:LYS:H	2.14	0.50
46:LN:198:GLU:OE2	46:LN:254:ALA:HB2	2.11	0.50
45:MA:184:PRO:O	45:MA:188:ILE:HG12	2.12	0.50
46:MF:103:LYS:HD2	46:MF:107:THR:HG21	1.93	0.50
45:MI:282:TYR:OH	45:MI:370:LYS:O	2.27	0.50
45:MK:419:SER:O	45:MK:423:GLU:HG2	2.12	0.50
45:MM:265:ILE:HG22	45:MM:432:TYR:HE1	1.76	0.50
46:NB:117:LEU:O	46:NB:121:ARG:HG3	2.12	0.50
46:NB:316:LEU:HB2	46:NB:366:THR:HG22	1.93	0.50
45:NE:250:VAL:HG13	45:NE:254:GLU:HB2	1.93	0.50
45:NG:133:GLN:O	45:NG:165:SER:OG	2.28	0.50
45:NG:136:LEU:HD23	45:NG:167:LEU:HB2	1.93	0.50
46:NH:330:MET:HE2	46:NH:349:ILE:HG21	1.94	0.50
46:NJ:33:THR:O	46:NJ:58:ARG:NH2	2.45	0.50
45:NK:231:ILE:O	45:NK:235:ILE:HG12	2.12	0.50
45:OC:430:LYS:HA	45:OC:433:GLU:HG2	1.93	0.50
45:OE:88:HIS:O	45:OE:91:GLN:HG2	2.12	0.50
45:OG:220:GLU:OE2	45:OG:221:ARG:HG2	2.12	0.50
45:PA:223:THR:HG23	45:PA:225:THR:H	1.76	0.50
46:PB:309:ARG:NH2	46:PB:426:GLN:O	2.37	0.50
45:PC:96:LYS:HG3	46:PD:129:CYS:SG	2.52	0.50
46:PH:273:LEU:H	46:PH:292:GLN:NE2	2.07	0.50
45:PI:67:PHE:HB2	45:PI:92:LEU:HD13	1.94	0.50
45:PI:221:ARG:HE	45:PI:221:ARG:HA	1.77	0.50
45:PK:319:TYR:HB3	45:PK:323:VAL:HG11	1.93	0.50
46:PL:287:PRO:HG3	46:PL:329:GLN:HE22	1.77	0.50
46:QD:16:ILE:HD13	46:QD:226:ASN:OD1	2.12	0.50
46:QF:54:ALA:HA	46:RF:283:ALA:HB2	1.93	0.50
46:QL:322:SER:OG	45:QM:221:ARG:NH1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:65:LEU:HD22	46:QN:90:PHE:HE1	1.76	0.50
45:RE:12:GLY:HA2	45:RE:15:GLN:HE21	1.76	0.50
45:RE:188:ILE:HD12	45:RE:425:LEU:HD11	1.92	0.50
46:RH:258:ILE:O	46:RH:258:ILE:HG13	2.12	0.50
46:RL:272:PRO:HD3	46:RL:364:ALA:HA	1.93	0.50
45:SA:291:ILE:HD11	45:SA:319:TYR:HE1	1.76	0.50
45:SC:260:VAL:HG13	45:SC:265:ILE:O	2.12	0.50
46:SD:293:MET:CE	46:SD:367:PHE:HB3	2.41	0.50
45:SG:371:VAL:HG22	45:SG:373:ARG:H	1.77	0.50
46:SJ:183:TYR:HA	46:SJ:385:PHE:HE1	1.77	0.50
45:SK:367:ASP:N	45:SK:367:ASP:OD1	2.45	0.50
46:TD:321:MET:HB2	45:TE:221:ARG:HH21	1.74	0.50
46:TH:133:PHE:HB2	46:TH:164:MET:SD	2.52	0.50
46:TJ:320:ARG:HD3	46:TJ:355:ASP:HB3	1.94	0.50
45:TK:340:THR:HG23	45:TK:341:ILE:HG13	1.94	0.50
46:TL:128:ASP:OD1	46:TL:129:CYS:N	2.40	0.50
46:TL:334:GLN:HG3	46:TL:341:PHE:HD2	1.77	0.50
46:UD:208:TYR:CE2	46:UD:225:LEU:HD11	2.47	0.50
46:UD:324:LYS:CD	45:UE:222:PRO:HG2	2.40	0.50
45:UE:11:GLN:H	47:UE:501:GTP:PB	2.34	0.50
45:UG:215:ARG:NH2	45:UG:299:ALA:O	2.43	0.50
45:UI:32:PRO:HB3	45:UI:83:TYR:HE1	1.77	0.50
45:UI:226:ASN:ND2	45:UI:367:ASP:OD2	2.45	0.50
45:UM:430:LYS:O	45:UM:434:GLU:OE1	2.29	0.50
46:UN:201:VAL:HG23	46:UN:301:CYS:SG	2.52	0.50
45:VC:244:PHE:HB2	45:VC:356:ASN:HD21	1.77	0.50
46:VH:113:ILE:HD13	46:VH:150:LEU:HD22	1.92	0.50
45:VI:244:PHE:HB2	45:VI:356:ASN:HD21	1.76	0.50
45:VI:265:ILE:HG22	45:VI:380:ASN:HD21	1.77	0.50
45:VK:261:PRO:CD	45:VK:262:TYR:N	2.74	0.50
45:VK:348:PRO:HD3	46:VN:388:MET:CE	2.41	0.50
46:VL:24:ILE:HA	46:VL:27:GLU:OE2	2.11	0.50
46:VL:399:THR:HA	46:VL:403:MET:HB2	1.94	0.50
46:VN:122:LYS:HA	46:VN:125:GLU:HG2	1.93	0.50
46:WD:116:VAL:HA	46:WD:119:VAL:HG22	1.92	0.50
46:WD:208:TYR:CE1	46:WD:225:LEU:HD11	2.47	0.50
46:WD:286:VAL:HG23	46:WD:287:PRO:HD3	1.94	0.50
45:WE:328:VAL:O	45:WE:332:ILE:HG12	2.11	0.50
46:WF:132:GLY:HA3	46:WF:163:ILE:O	2.11	0.50
46:WF:325:GLU:O	46:WF:329:GLN:HB2	2.12	0.50
46:WH:6:HIS:NE2	46:WH:8:GLN:OE1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WH:121:ARG:O	46:WH:125:GLU:HG2	2.12	0.50
4:OD:40:GLY:O	45:DC:79:ARG:NH1	2.45	0.50
19:1J:181:GLY:N	45:IG:221:ARG:O	2.37	0.50
5:2E:118:ARG:HH22	34:5R:537:LYS:HE3	1.75	0.50
31:2I:38:SER:OG	45:FG:95:GLY:O	2.27	0.50
35:4S:166:GLN:OE1	35:4S:224:ILE:HD13	2.12	0.50
34:5R:246:GLN:HG3	45:BI:58:ALA:HB1	1.94	0.50
34:5R:508:ALA:HB3	34:5R:513:HIS:NE2	2.26	0.50
34:5R:542:TYR:HD2	34:5R:548:PHE:HA	1.77	0.50
35:5S:125:GLU:HB3	35:5S:164:LYS:HZ3	1.76	0.50
35:5S:183:TYR:HD1	35:5S:187:LEU:HD21	1.76	0.50
41:6H:174:MET:HA	41:6H:177:GLU:CD	2.32	0.50
41:6H:204:LEU:O	41:6H:204:LEU:HD12	2.11	0.50
34:6R:426:PHE:HE1	34:6R:512:THR:HG21	1.76	0.50
46:AB:48:ASN:O	46:AB:62:ARG:NH2	2.45	0.50
46:AB:376:GLU:HG3	46:AB:380:ARG:HH12	1.76	0.50
46:AJ:174:LYS:HE2	46:AJ:205:GLU:OE2	2.12	0.50
46:AL:151:LEU:HA	46:AL:154:LYS:HZ1	1.77	0.50
46:AL:178:THR:HG22	46:AL:180:VAL:H	1.77	0.50
45:BA:2:ARG:HA	45:BA:133:GLN:HE22	1.77	0.50
45:BE:398:MET:HG2	46:BF:345:ILE:HG22	1.93	0.50
45:BK:111:GLY:O	45:BK:115:VAL:HG13	2.12	0.50
45:BK:217:LEU:HB3	45:BK:219:ILE:CD1	2.42	0.50
45:BM:221:ARG:NH2	46:BN:321:MET:HB3	2.27	0.50
45:CA:183:GLU:N	45:CA:184:PRO:HD2	2.27	0.50
46:CD:186:THR:HA	46:CD:189:VAL:HG12	1.93	0.50
46:CF:30:ILE:HD11	46:CF:47:ILE:HD11	1.94	0.50
45:CI:184:PRO:O	45:CI:188:ILE:HG12	2.11	0.50
46:CJ:30:ILE:HD11	46:CJ:47:ILE:HD11	1.94	0.50
45:DE:21:TRP:CZ3	45:DE:63:PRO:HB3	2.47	0.50
45:DE:223:THR:HG23	45:DE:225:THR:H	1.76	0.50
46:DJ:208:TYR:CE1	46:DJ:225:LEU:HD11	2.46	0.50
45:DK:36:MET:SD	45:DK:37:PRO:HD2	2.51	0.50
46:DL:189:VAL:HA	46:DL:192:LEU:HB3	1.94	0.50
46:DL:312:THR:HG22	46:DL:370:ASN:HB3	1.93	0.50
46:EB:240:LEU:HD21	46:EB:249:ASP:HA	1.94	0.50
45:EE:98:ASP:O	45:EE:105:ARG:NH1	2.45	0.50
45:EE:135:PHE:HB2	45:EE:166:LYS:HG2	1.92	0.50
45:EI:141:VAL:HG11	45:EI:172:TYR:CD1	2.47	0.50
45:FE:296:PHE:HE1	45:FE:377:MET:HE3	1.77	0.50
46:FF:165:GLU:HG2	46:FF:198:GLU:HB2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FI:398:MET:HE2	46:FJ:346:PRO:HD2	1.93	0.50
45:FK:259:LEU:HD21	45:FK:316:SER:HB2	1.93	0.50
45:GC:336:LYS:O	45:GC:339:ARG:NH2	2.45	0.50
45:GI:192:HIS:HD2	45:GI:421:ALA:HA	1.76	0.50
46:GJ:390:ARG:CZ	46:GJ:390:ARG:HA	2.41	0.50
45:GK:107:HIS:ND1	45:GK:107:HIS:O	2.45	0.50
45:HC:17:GLY:HA2	45:HC:20:CYS:SG	2.52	0.50
45:HC:387:VAL:HG12	45:HC:390:ARG:NH1	2.27	0.50
45:HE:407:TRP:CZ2	46:HF:258:ILE:HD11	2.47	0.50
45:HI:210:TYR:CE1	46:HJ:324:LYS:HE3	2.47	0.50
46:HJ:8:GLN:OE1	46:HJ:17:GLY:HA3	2.11	0.50
45:HK:183:GLU:N	45:HK:184:PRO:HD2	2.25	0.50
45:HK:248:LEU:HB3	45:HK:355:ILE:HG22	1.94	0.50
46:IH:344:TRP:HB3	46:IH:430:ALA:HB2	1.92	0.50
45:II:133:GLN:HB3	45:II:252:ILE:HG21	1.94	0.50
45:II:183:GLU:N	45:II:184:PRO:HD2	2.27	0.50
45:IM:296:PHE:CE2	45:IM:335:ILE:HG13	2.47	0.50
46:IN:319:GLY:HA3	46:IN:363:MET:HE1	1.92	0.50
45:JA:88:HIS:HB3	45:JA:91:GLN:HG2	1.93	0.50
46:JF:152:ILE:HG23	46:JF:164:MET:SD	2.52	0.50
45:JG:26:LEU:HD11	45:JG:364:PRO:HD2	1.93	0.50
45:JM:389:SER:O	45:JM:393:HIS:ND1	2.45	0.50
46:JN:350:LYS:HD3	46:JN:351:SER:N	2.26	0.50
46:KD:31:ASP:OD2	46:KD:33:THR:OG1	2.30	0.50
45:KG:17:GLY:HA2	45:KG:20:CYS:SG	2.52	0.50
45:KG:318:MET:HB2	45:KG:376:CYS:SG	2.52	0.50
45:KG:439:THR:HG22	46:KJ:391:ARG:HD3	1.93	0.50
46:KJ:9:GLY:HA3	46:KJ:66:MET:SD	2.52	0.50
46:KJ:167:PHE:HD2	46:KJ:202:ILE:HD11	1.76	0.50
45:LM:392:ASP:OD2	45:LM:422:ARG:NH1	2.45	0.50
45:MA:260:VAL:O	46:MD:397:TRP:HH2	1.95	0.50
45:MC:183:GLU:N	45:MC:184:PRO:HD2	2.27	0.50
46:MF:11:GLN:HE21	49:MF:501:GDP:PA	2.35	0.50
46:MJ:22:GLU:HG2	46:MJ:81:PHE:CD2	2.47	0.50
46:MJ:396:HIS:HA	46:MJ:399:THR:OG1	2.12	0.50
46:MN:330:MET:HE2	46:MN:349:ILE:HG21	1.92	0.50
45:NC:195:LEU:O	45:NC:266:HIS:NE2	2.38	0.50
46:NN:47:ILE:HG22	46:NN:51:TYR:HB2	1.93	0.50
46:NN:372:THR:HA	46:NN:422:TYR:CE1	2.45	0.50
45:OA:101:ASN:HA	45:OA:144:GLY:N	2.27	0.50
45:OE:52:PHE:CZ	45:OE:239:THR:HG21	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OF:200:MET:CE	46:OF:268:ILE:HG23	2.42	0.50
45:OG:7:ILE:HD13	45:OG:153:LEU:HD21	1.94	0.50
46:OH:148:GLY:O	46:OH:152:ILE:HG12	2.12	0.50
45:OI:9:VAL:HG13	45:OI:139:ASN:HB3	1.93	0.50
45:OI:153:LEU:O	45:OI:157:LEU:HD23	2.11	0.50
46:OJ:304:ASP:HB3	46:OJ:307:HIS:ND1	2.26	0.50
46:OL:296:ALA:HB3	46:OL:306:ARG:CZ	2.42	0.50
45:PC:96:LYS:HE3	46:PD:129:CYS:SG	2.52	0.50
46:PD:148:GLY:O	46:PD:152:ILE:HG13	2.12	0.50
46:PD:294:PHE:HD2	46:PD:333:VAL:HG21	1.77	0.50
45:PI:194:LEU:O	45:PI:198:THR:HG22	2.11	0.50
46:PL:8:GLN:HG3	46:PL:14:ASN:ND2	2.27	0.50
46:PN:16:ILE:HD13	46:PN:226:ASN:OD1	2.12	0.50
45:QC:208:ALA:O	45:QC:212:ILE:HG12	2.11	0.50
45:QG:239:THR:HG23	45:QG:243:ARG:HH21	1.76	0.50
46:QH:399:THR:HA	46:QH:403:MET:HB2	1.92	0.50
45:QI:278:ALA:HA	45:QI:369:ALA:HB2	1.94	0.50
45:QI:311:LYS:O	45:QI:381:SER:OG	2.21	0.50
45:RA:239:THR:OG1	45:RA:243:ARG:NH2	2.42	0.50
46:RB:67:ASP:O	46:RB:92:PHE:HA	2.12	0.50
46:RB:113:ILE:HG12	46:RB:117:LEU:HG	1.94	0.50
46:RD:10:GLY:O	46:RD:14:ASN:ND2	2.45	0.50
46:RF:66:MET:HA	46:RF:91:VAL:HG23	1.94	0.50
46:RF:312:THR:HG22	46:RF:370:ASN:HB3	1.92	0.50
45:RG:60:LYS:HD2	45:SG:283:HIS:HA	1.93	0.50
45:RI:87:PHE:HD2	45:RI:92:LEU:HD21	1.76	0.50
45:SC:109:THR:HG22	45:SC:110:ILE:HG23	1.93	0.50
45:SK:396:ASP:HA	45:SK:422:ARG:HH22	1.76	0.50
46:TB:318:ARG:HG2	46:TB:357:PRO:HA	1.94	0.50
46:TD:87:PRO:HA	46:TD:90:PHE:CD2	2.47	0.50
46:TF:164:MET:H	46:TF:197:ASP:HB2	1.76	0.50
45:TI:55:GLU:HG3	45:TI:57:GLY:H	1.77	0.50
46:TL:21:TRP:CZ3	46:TL:61:PRO:HB3	2.46	0.50
45:TM:60:LYS:HE3	45:UM:283:HIS:HA	1.93	0.50
45:TM:229:ARG:HH21	45:TM:368:LEU:HB3	1.76	0.50
46:TN:309:ARG:NH2	46:TN:426:GLN:O	2.37	0.50
46:UB:287:PRO:HG3	46:UB:329:GLN:NE2	2.26	0.50
45:UC:36:MET:SD	45:UC:61:HIS:NE2	2.82	0.50
46:UD:229:VAL:O	46:UD:233:MET:HG2	2.12	0.50
45:UE:172:TYR:HD2	45:UE:173:PRO:HD2	1.77	0.50
45:UE:221:ARG:N	45:UE:222:PRO:HD3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:324:LYS:HG2	45:UG:221:ARG:NH2	2.27	0.50
46:UH:102:ALA:HA	46:UH:403:MET:HE1	1.93	0.50
45:UI:156:ARG:NE	45:UI:156:ARG:HA	2.27	0.50
46:UL:304:ASP:HB3	46:UL:307:HIS:ND1	2.26	0.50
45:UM:431:ASP:O	45:UM:435:VAL:HG22	2.12	0.50
45:VA:317:MET:HB3	45:VA:319:TYR:CE2	2.47	0.50
45:VA:338:LYS:HZ3	45:VA:341:ILE:HG13	1.76	0.50
46:VH:370:ASN:OD1	46:VH:422:TYR:OH	2.28	0.50
45:VI:268:MET:HB2	45:VI:379:SER:O	2.11	0.50
45:VM:221:ARG:HH22	46:VN:321:MET:HB2	1.76	0.50
45:WA:67:PHE:HB2	45:WA:92:LEU:HD13	1.93	0.50
45:WA:172:TYR:HD1	45:WA:173:PRO:HD2	1.77	0.50
45:WC:221:ARG:NH2	46:WD:321:MET:HB3	2.27	0.50
46:WD:337:ASN:OD1	46:WD:340:TYR:HB2	2.12	0.50
45:WE:70:LEU:O	46:WF:2:ARG:NH2	2.44	0.50
45:WI:98:ASP:OD1	45:WI:99:ALA:N	2.44	0.50
45:WK:21:TRP:CZ2	45:WK:65:ALA:HB2	2.47	0.50
45:WK:287:SER:O	45:WK:291:ILE:HG12	2.12	0.50
7:1G:164:PRO:HD3	45:KA:245:ASP:OD2	2.11	0.50
9:1N:247:GLN:HA	46:KJ:74:ASP:OD1	2.12	0.50
10:1Q:36:ARG:CZ	35:4S:204:ILE:HG23	2.41	0.50
9:2N:249:LEU:HD21	46:KB:90:PHE:CD1	2.47	0.50
34:4R:315:MET:O	46:CF:359:LYS:NZ	2.45	0.50
41:6H:241:LEU:HD13	41:6H:243:LYS:HZ1	1.76	0.50
10:6Q:35:LYS:O	10:6Q:48:GLU:HG3	2.12	0.50
34:6R:318:TYR:HB3	34:6R:321:MET:HB3	1.94	0.50
46:AB:262:ARG:NH2	46:AB:425:TYR:OH	2.45	0.50
46:AD:97:ALA:HA	46:AD:103:LYS:HD2	1.93	0.50
45:AI:340:THR:HG23	45:AI:341:ILE:HG13	1.93	0.50
46:AL:156:ARG:NH2	46:AL:197:ASP:OD2	2.44	0.50
45:AM:208:ALA:O	45:AM:212:ILE:HG12	2.11	0.50
45:BA:105:ARG:NH2	45:BA:411:GLU:HB3	2.27	0.50
46:BB:42:LEU:HA	46:BB:45:GLU:HG3	1.92	0.50
45:BC:115:VAL:HG11	45:BC:152:LEU:HD23	1.93	0.50
46:BJ:139:LEU:HD13	46:BJ:168:SER:HB3	1.94	0.50
45:BK:183:GLU:N	45:BK:184:PRO:HD2	2.27	0.50
45:CA:256:GLN:NE2	45:CA:257:THR:HG23	2.27	0.50
45:CC:136:LEU:HD13	45:CC:167:LEU:HB2	1.94	0.50
46:CF:19:LYS:NZ	46:CF:227:HIS:HB2	2.27	0.50
45:CM:208:ALA:HB2	45:CM:304:LYS:HG3	1.93	0.50
45:DA:387:VAL:HA	45:DA:390:ARG:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DF:105:HIS:CE1	46:DF:150:LEU:HD13	2.47	0.50
46:DL:252:LYS:O	46:DL:256:ASN:CB	2.58	0.50
46:DN:87:PRO:HA	46:DN:90:PHE:HD2	1.77	0.50
46:DN:135:ILE:HG13	46:DN:152:ILE:HD11	1.94	0.50
45:EA:183:GLU:N	45:EA:184:PRO:HD2	2.27	0.50
46:ED:405:GLU:HA	46:ED:408:PHE:HD2	1.76	0.50
46:EH:139:LEU:HD22	46:EH:170:VAL:HG12	1.93	0.50
45:EI:377:MET:SD	45:EI:379:SER:HB3	2.52	0.50
45:FA:126:ALA:HB1	45:FA:132:LEU:HD21	1.94	0.50
46:FH:3:GLU:OE1	46:FH:3:GLU:N	2.41	0.50
45:FK:222:PRO:HD2	46:FL:324:LYS:CD	2.37	0.50
46:GB:58:ARG:HH22	46:GB:86:ARG:NH1	2.09	0.50
45:GC:21:TRP:CZ2	45:GC:65:ALA:HB2	2.46	0.50
46:GD:73:MET:HA	46:GD:76:VAL:HG12	1.94	0.50
45:GM:55:GLU:HG3	45:GM:57:GLY:H	1.77	0.50
45:HC:268:MET:HG2	45:HC:378:ILE:HD11	1.93	0.50
46:HN:178:THR:HB	46:HN:181:GLU:HG3	1.93	0.50
45:IE:141:VAL:HG11	45:IE:172:TYR:HD1	1.77	0.50
45:II:167:LEU:HG	45:II:200:VAL:HB	1.93	0.50
45:IK:268:MET:N	45:IK:268:MET:SD	2.85	0.50
46:IL:180:VAL:HG12	46:IL:180:VAL:O	2.12	0.50
46:JB:275:SER:O	46:JB:279:GLN:HG3	2.12	0.50
45:JG:211:ASP:HB3	45:JG:215:ARG:HH22	1.77	0.50
46:JH:156:ARG:NH2	46:JH:197:ASP:OD1	2.45	0.50
46:KB:77:ARG:NH1	46:KB:82:GLY:O	2.45	0.50
46:KD:200:MET:HG3	46:KD:266:PHE:HB2	1.92	0.50
45:KG:309:HIS:HA	45:NG:282:TYR:HE2	1.77	0.50
45:KG:387:VAL:HG12	45:KG:390:ARG:HH22	1.76	0.50
45:LE:167:LEU:HG	45:LE:200:VAL:HB	1.94	0.50
46:LH:303:ALA:H	46:LH:377:MET:HE1	1.77	0.50
46:LL:74:ASP:HA	46:LL:77:ARG:NE	2.26	0.50
46:MH:131:GLN:HE22	46:MH:250:LEU:HB2	1.77	0.50
45:MI:353:VAL:HG12	46:ML:177:ASP:HB2	1.94	0.50
45:NC:76:ASP:HB3	45:NC:79:ARG:HH21	1.77	0.50
45:NC:226:ASN:ND2	45:NC:367:ASP:OD2	2.45	0.50
45:NG:297:GLU:HB3	45:NG:300:ASN:HB2	1.93	0.50
46:NL:203:ASP:HB2	46:NL:301:CYS:HA	1.93	0.50
46:OB:203:ASP:O	46:OB:207:LEU:HG	2.12	0.50
46:OD:289:LEU:O	46:OD:293:MET:HG3	2.12	0.50
45:OG:203:MET:HG3	45:OG:384:ILE:HD11	1.94	0.50
45:OM:164:LYS:O	45:OM:166:LYS:NZ	2.35	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:319:TYR:CE2	45:PA:328:VAL:HG22	2.46	0.50
45:PC:251:ASP:H	45:PC:254:GLU:CD	2.15	0.50
46:PH:318:ARG:HH11	46:PH:358:PRO:HG3	1.77	0.50
46:PJ:293:MET:HG2	46:PJ:365:VAL:HG11	1.94	0.50
46:PL:16:ILE:HD12	46:PL:229:VAL:HG11	1.93	0.50
45:QE:331:SER:O	45:QE:335:ILE:HG23	2.11	0.50
46:QF:173:PRO:HG2	46:QF:380:ARG:HD3	1.94	0.50
45:QG:52:PHE:HZ	45:QG:239:THR:HG21	1.76	0.50
46:QL:63:ALA:O	46:QL:89:ASN:ND2	2.44	0.50
46:QL:86:ARG:HH11	46:RL:282:ARG:NH1	2.09	0.50
46:QL:240:LEU:HD21	46:QL:249:ASP:HB3	1.94	0.50
46:QL:290:THR:HA	46:QL:293:MET:HG2	1.94	0.50
45:QM:56:THR:HG23	45:QM:58:ALA:H	1.77	0.50
45:RE:329:ASN:HA	45:RE:332:ILE:HG12	1.93	0.50
46:RF:375:GLN:HG3	46:RF:419:VAL:HG13	1.93	0.50
45:SA:288:VAL:HG11	45:SA:327:ASP:HB3	1.92	0.50
46:SB:51:TYR:HB3	46:SB:59:TYR:HB3	1.94	0.50
46:SD:6:HIS:HE1	46:SD:8:GLN:HG3	1.76	0.50
46:SD:6:HIS:CE1	46:SD:8:GLN:HG3	2.47	0.50
46:SD:407:GLU:HA	46:SD:410:GLU:OE2	2.12	0.50
46:SD:408:PHE:O	46:SD:412:GLU:OE1	2.29	0.50
45:SE:174:SER:OG	45:SE:207:GLU:HB2	2.12	0.50
45:SE:261:PRO:HB3	45:SE:346:TRP:HH2	1.76	0.50
46:SF:247:ASN:OD1	45:SG:11:GLN:NE2	2.44	0.50
46:SF:255:VAL:HA	45:SG:407:TRP:CZ3	2.46	0.50
46:SJ:42:LEU:HD12	46:SJ:42:LEU:H	1.77	0.50
46:SL:106:TYR:HE2	46:SL:403:MET:HB2	1.77	0.50
46:TB:310:TYR:HA	46:TB:371:SER:HA	1.93	0.50
45:TE:402:ARG:HH22	45:TE:406:HIS:HB3	1.76	0.50
46:TF:84:LEU:O	46:TF:86:ARG:NH2	2.44	0.50
46:TF:309:ARG:NH2	46:TF:426:GLN:O	2.34	0.50
45:TI:118:CYS:O	45:TI:122:ILE:HG12	2.12	0.50
45:TK:33:ASP:HA	45:TK:85:GLN:HE21	1.76	0.50
46:TL:31:ASP:OD2	46:TL:33:THR:OG1	2.30	0.50
46:TL:167:PHE:CE2	46:TL:233:MET:HG2	2.46	0.50
46:UH:276:ARG:NH2	46:UH:277:GLY:HA2	2.27	0.50
45:UI:156:ARG:HA	45:UI:156:ARG:HE	1.76	0.50
46:UJ:58:ARG:HH21	46:UJ:83:GLN:HE22	1.58	0.50
46:VH:326:VAL:O	46:VH:330:MET:HG2	2.11	0.50
46:VL:97:ALA:HB3	46:VL:143:THR:HB	1.94	0.50
45:VM:183:GLU:N	45:VM:184:PRO:HD2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:116:ASP:OD1	45:WA:117:LEU:HD12	2.12	0.50
45:WA:223:THR:HG23	45:WA:225:THR:H	1.77	0.50
46:WB:309:ARG:NH1	46:WB:343:GLU:OE1	2.45	0.50
45:WC:183:GLU:N	45:WC:184:PRO:HD2	2.27	0.50
45:WI:256:GLN:O	46:WL:397:TRP:NE1	2.45	0.50
45:WK:115:VAL:HA	45:WK:118:CYS:SG	2.52	0.50
46:WN:130:LEU:HD21	46:WN:133:PHE:CE1	2.47	0.50
4:OD:6:ARG:NH1	46:CB:41:ASP:O	2.44	0.49
4:OD:39:PRO:HD2	45:DC:79:ARG:NH2	2.26	0.49
1:1A:137:GLN:NE2	45:AE:77:GLU:OE2	2.33	0.49
21:2L:524:ARG:NH1	46:BN:358:PRO:O	2.36	0.49
15:4X:86:ASP:HA	15:4X:89:ASN:HD22	1.77	0.49
36:5B:141:SER:HB3	36:5B:144:LYS:HG2	1.94	0.49
37:5G:123:ARG:HA	45:OI:370:LYS:HG3	1.94	0.49
34:7R:318:TYR:HE1	46:CB:273:LEU:HA	1.77	0.49
34:7R:487:GLU:HB3	34:7R:523:PHE:HZ	1.75	0.49
45:AA:17:GLY:HA2	45:AA:20:CYS:SG	2.51	0.49
46:AD:172:SER:HB2	46:AD:205:GLU:OE2	2.12	0.49
45:AM:387:VAL:O	45:AM:391:LEU:HG	2.12	0.49
45:BC:1:MET:HG3	45:BC:130:THR:HG23	1.94	0.49
46:BD:83:GLN:HE21	46:BD:84:LEU:HD12	1.77	0.49
46:BD:97:ALA:HB3	46:BD:143:THR:HB	1.94	0.49
45:BE:222:PRO:HG2	46:BF:324:LYS:CD	2.42	0.49
46:BH:173:PRO:HG3	46:BH:384:GLN:NE2	2.27	0.49
45:BM:93:ILE:HD11	45:BM:121:ARG:HG3	1.93	0.49
45:CA:288:VAL:HA	45:CA:291:ILE:HG12	1.94	0.49
45:CC:328:VAL:O	45:CC:332:ILE:HG12	2.12	0.49
46:CF:319:GLY:HA2	46:CF:357:PRO:HD3	1.93	0.49
45:CG:174:SER:HB2	45:CG:177:VAL:O	2.11	0.49
46:CN:262:ARG:NH1	46:CN:421:GLU:OE1	2.45	0.49
45:DA:203:MET:HE1	45:DA:267:PHE:HD2	1.77	0.49
45:DA:268:MET:HB2	45:DA:379:SER:O	2.11	0.49
45:DE:98:ASP:OD1	45:DE:99:ALA:N	2.45	0.49
45:DG:132:LEU:HD23	45:DG:164:LYS:HE2	1.93	0.49
46:DH:132:GLY:HA3	46:DH:163:ILE:HG22	1.93	0.49
46:DJ:266:PHE:HE1	46:DJ:370:ASN:HD22	1.59	0.49
45:DM:205:ASP:OD1	45:DM:303:ALA:HA	2.13	0.49
45:DM:244:PHE:HB2	45:DM:356:ASN:HD21	1.76	0.49
46:DN:16:ILE:HD12	46:DN:229:VAL:HG11	1.93	0.49
46:EF:230:SER:HA	46:EF:233:MET:HG2	1.94	0.49
45:EG:183:GLU:N	45:EG:184:PRO:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EG:288:VAL:HA	45:EG:291:ILE:HG12	1.94	0.49
45:EI:250:VAL:HG13	45:EI:254:GLU:HB2	1.94	0.49
46:EJ:254:ALA:O	46:EJ:258:ILE:HG12	2.12	0.49
45:FE:97:GLU:HG3	45:FE:105:ARG:HH12	1.77	0.49
46:FF:39:ASP:OD1	46:FF:40:SER:N	2.44	0.49
46:FF:67:ASP:OD2	46:FF:68:LEU:N	2.45	0.49
46:FH:8:GLN:HE22	46:FH:17:GLY:HA3	1.77	0.49
45:FI:21:TRP:CZ2	45:FI:65:ALA:HB2	2.47	0.49
45:GE:183:GLU:N	45:GE:184:PRO:HD2	2.27	0.49
45:GG:28:HIS:CE1	45:GG:243:ARG:HD2	2.47	0.49
46:GH:39:ASP:OD1	46:GH:40:SER:N	2.44	0.49
45:GI:224:TYR:HE2	46:GJ:246:LEU:HD11	1.76	0.49
46:GJ:148:GLY:O	46:GJ:152:ILE:HG12	2.12	0.49
45:GK:183:GLU:N	45:GK:184:PRO:HD2	2.27	0.49
45:HG:195:LEU:HD21	45:HG:264:ARG:HE	1.76	0.49
46:HL:139:LEU:HD12	46:HL:170:VAL:HG12	1.94	0.49
46:HN:156:ARG:HH12	46:HN:160:PRO:HA	1.77	0.49
46:HN:232:ALA:HB1	46:HN:268:ILE:HD12	1.94	0.49
45:IA:174:SER:HB2	45:IA:177:VAL:O	2.12	0.49
45:IC:288:VAL:HA	45:IC:291:ILE:HG12	1.93	0.49
46:IF:297:LYS:HD2	46:IF:297:LYS:H	1.76	0.49
45:IG:183:GLU:N	45:IG:184:PRO:HD2	2.26	0.49
45:II:3:GLU:HG3	45:II:129:CYS:SG	2.52	0.49
45:IM:175:PRO:HA	45:IM:390:ARG:NE	2.27	0.49
46:IN:406:MET:O	46:IN:410:GLU:HG2	2.11	0.49
46:JD:130:LEU:HB2	46:JD:162:ARG:NH1	2.26	0.49
45:JE:115:VAL:HG11	45:JE:152:LEU:HD23	1.94	0.49
45:JE:170:THR:HG1	45:JE:172:TYR:HE2	1.59	0.49
46:JF:69:GLU:OE2	46:JF:72:THR:N	2.45	0.49
45:JI:183:GLU:N	45:JI:184:PRO:HD2	2.27	0.49
45:JI:310:GLY:HA3	45:JI:383:ALA:HB2	1.94	0.49
45:JM:183:GLU:N	45:JM:184:PRO:HD2	2.26	0.49
45:KA:68:LEU:HD23	45:KA:93:ILE:HB	1.93	0.49
45:KA:140:SER:HA	45:KA:171:ILE:HB	1.94	0.49
46:KB:51:TYR:HB3	46:KB:59:TYR:HB3	1.93	0.49
45:KK:276:ILE:HG23	45:KK:280:LYS:HB3	1.92	0.49
46:KL:63:ALA:O	46:KL:89:ASN:ND2	2.44	0.49
45:LE:407:TRP:CH2	46:LF:258:ILE:HG13	2.46	0.49
45:LI:405:VAL:O	45:LI:409:VAL:HG23	2.12	0.49
46:MF:139:LEU:HD22	46:MF:170:VAL:HG12	1.94	0.49
45:MG:254:GLU:O	45:MG:255:PHE:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MI:296:PHE:HE2	45:MI:335:ILE:HG21	1.77	0.49
46:MJ:418:LEU:HD12	46:MJ:421:GLU:OE1	2.12	0.49
45:NA:417:GLU:OE1	45:NA:417:GLU:N	2.45	0.49
45:NI:265:ILE:HG12	45:NI:432:TYR:HE1	1.77	0.49
46:NL:299:MET:HG3	46:NL:305:PRO:HG3	1.92	0.49
46:NN:67:ASP:OD1	46:NN:68:LEU:N	2.43	0.49
45:OC:257:THR:HG22	46:OF:397:TRP:CZ3	2.47	0.49
46:OD:230:SER:HA	46:OD:233:MET:HE2	1.94	0.49
45:OG:141:VAL:HG11	45:OG:172:TYR:CD1	2.47	0.49
45:OG:298:PRO:HA	45:OG:301:MET:HE1	1.94	0.49
45:OI:210:TYR:CZ	46:OJ:324:LYS:HG2	2.47	0.49
46:OJ:332:ASN:O	46:OJ:336:LYS:HG2	2.12	0.49
45:OM:167:LEU:HD23	45:OM:200:VAL:HB	1.94	0.49
46:PD:105:HIS:NE2	46:PD:150:LEU:HB3	2.27	0.49
45:PG:292:THR:HG21	45:PG:331:SER:HB3	1.94	0.49
46:PH:186:THR:HA	46:PH:189:VAL:HG12	1.94	0.49
46:PJ:21:TRP:HA	46:PJ:24:ILE:HG22	1.94	0.49
46:PL:210:ILE:HD13	46:PL:298:ASN:HA	1.93	0.49
45:QA:261:PRO:HB2	45:QA:262:TYR:HD1	1.77	0.49
46:QB:284:LEU:HD11	46:QB:362:LYS:HB3	1.92	0.49
46:QD:5:VAL:HG11	46:QD:123:GLU:OE1	2.11	0.49
46:QD:167:PHE:CE1	46:QD:233:MET:HG3	2.47	0.49
46:QD:324:LYS:NZ	46:QD:325:GLU:OE1	2.45	0.49
45:QE:296:PHE:HE1	45:QE:377:MET:SD	2.35	0.49
46:QF:169:VAL:HG12	46:QF:202:ILE:HB	1.94	0.49
46:QJ:11:GLN:NE2	49:QJ:501:GDP:O3B	2.43	0.49
46:QJ:31:ASP:OD2	46:QJ:34:GLY:N	2.45	0.49
45:QK:434:GLU:O	45:QK:437:ILE:HG12	2.12	0.49
46:QL:11:GLN:O	46:QL:15:GLN:HG2	2.11	0.49
45:QM:269:LEU:HD23	45:QM:379:SER:O	2.12	0.49
46:QN:3:GLU:HG3	46:QN:62:ARG:NH1	2.26	0.49
46:RD:396:HIS:HA	46:RD:399:THR:OG1	2.11	0.49
46:RF:32:PRO:HB3	46:RF:81:PHE:HD1	1.77	0.49
45:RG:316:SER:HA	45:RG:352:LYS:HB2	1.93	0.49
46:RL:121:ARG:HH22	46:SL:336:LYS:HE3	1.76	0.49
46:RL:154:LYS:NZ	46:RL:158:GLU:OE1	2.34	0.49
45:RM:294:SER:O	45:RM:297:GLU:HG2	2.12	0.49
45:SC:242:LEU:HD11	45:SC:252:ILE:HG12	1.93	0.49
46:SD:6:HIS:CE1	46:SD:8:GLN:NE2	2.80	0.49
45:SE:85:GLN:CD	45:SE:85:GLN:H	2.14	0.49
46:SH:86:ARG:HG2	46:SH:86:ARG:HH11	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:121:ARG:HH12	46:TJ:336:LYS:NZ	2.08	0.49
45:TG:206:ASN:OD1	47:TG:501:GTP:N2	2.45	0.49
46:TH:372:THR:HA	46:TH:422:TYR:CE2	2.44	0.49
45:TM:183:GLU:N	45:TM:184:PRO:HD2	2.26	0.49
46:TN:58:ARG:HH21	46:UN:281:TYR:HA	1.76	0.49
46:UB:87:PRO:HA	46:UB:90:PHE:CD2	2.47	0.49
45:UI:207:GLU:HB3	45:UI:304:LYS:NZ	2.27	0.49
45:UM:384:ILE:O	45:UM:387:VAL:HG22	2.12	0.49
46:VB:325:GLU:HA	46:VB:328:GLU:HG3	1.93	0.49
45:VE:17:GLY:HA2	45:VE:20:CYS:SG	2.52	0.49
45:VG:152:LEU:O	45:VG:156:ARG:HG2	2.12	0.49
45:VI:71:GLU:OE2	45:VI:73:THR:OG1	2.19	0.49
46:VJ:73:MET:CE	46:VJ:92:PHE:HB3	2.41	0.49
45:VM:101:ASN:HA	45:VM:144:GLY:H	1.76	0.49
45:WA:182:VAL:HG22	45:WA:185:TYR:HB2	1.94	0.49
45:WC:329:ASN:HA	45:WC:332:ILE:HG12	1.93	0.49
46:WF:148:GLY:O	46:WF:152:ILE:HG12	2.12	0.49
45:WI:183:GLU:N	45:WI:184:PRO:HD2	2.27	0.49
45:WI:345:ASP:OD1	45:WI:346:TRP:N	2.45	0.49
45:WM:268:MET:SD	45:WM:378:ILE:HG23	2.52	0.49
14:1V:96:ASN:ND2	46:LJ:262:ARG:HB2	2.27	0.49
20:2K:315:ARG:NH1	45:GI:372:MET:HB3	2.28	0.49
21:2L:359:LYS:HG3	34:6R:177:VAL:HG23	1.93	0.49
34:5R:92:VAL:HG12	34:5R:121:TYR:HA	1.93	0.49
35:5S:107:GLU:CD	35:5S:110:ARG:HH22	2.15	0.49
40:6G:118:LYS:NZ	46:UJ:121:ARG:HE	2.10	0.49
40:6G:220:LEU:O	40:6G:224:LEU:HD23	2.13	0.49
41:6H:219:THR:O	46:FD:320:ARG:NH1	2.46	0.49
46:AB:86:ARG:HD3	46:AB:87:PRO:HD2	1.95	0.49
46:AJ:4:ILE:HG13	46:AJ:132:GLY:O	2.12	0.49
46:AJ:294:PHE:HE2	46:AJ:333:VAL:HG11	1.77	0.49
45:BA:141:VAL:HG22	45:BA:187:SER:HA	1.94	0.49
46:BD:345:ILE:O	46:BD:345:ILE:HG13	2.11	0.49
46:BF:267:MET:HG3	46:BF:299:MET:SD	2.52	0.49
46:BL:86:ARG:NH1	46:CJ:281:TYR:O	2.44	0.49
45:BM:175:PRO:HG3	45:BM:390:ARG:CD	2.42	0.49
45:BM:183:GLU:N	45:BM:184:PRO:HD2	2.27	0.49
45:CC:293:ASN:O	45:CC:297:GLU:HG2	2.12	0.49
46:CD:258:ILE:HD11	45:CE:407:TRP:HZ2	1.77	0.49
46:CJ:226:ASN:HD21	49:CJ:501:GDP:HN1	1.59	0.49
46:CL:213:ARG:HB3	46:CL:297:LYS:NZ	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:87:PRO:HA	46:CN:90:PHE:CD2	2.47	0.49
46:DB:252:LYS:HA	45:DC:100:ALA:HB1	1.94	0.49
45:DE:288:VAL:HA	45:DE:291:ILE:HG12	1.94	0.49
46:DF:145:SER:HB2	46:DF:188:SER:HB3	1.94	0.49
45:EA:103:PHE:H	45:EA:408:TYR:HE2	1.59	0.49
45:EE:11:GLN:NE2	47:EE:501:GTP:O1A	2.45	0.49
46:EF:67:ASP:OD1	46:EF:68:LEU:N	2.43	0.49
46:EH:21:TRP:CZ3	46:EH:61:PRO:HB3	2.46	0.49
46:EH:317:PHE:CD1	46:EH:365:VAL:HG22	2.47	0.49
46:EL:99:ASN:HA	46:EL:142:GLY:H	1.77	0.49
46:EL:163:ILE:HG21	46:EL:250:LEU:HD22	1.94	0.49
45:FC:98:ASP:OD2	45:FC:99:ALA:N	2.46	0.49
46:FD:20:PHE:CD2	46:FD:21:TRP:CD1	3.00	0.49
46:FL:201:VAL:HG13	46:FL:301:CYS:SG	2.52	0.49
45:GA:71:GLU:OE1	46:GB:247:ASN:ND2	2.45	0.49
45:GC:72:PRO:HD2	46:GD:2:ARG:HH21	1.77	0.49
46:GD:10:GLY:O	46:GD:14:ASN:ND2	2.44	0.49
46:GD:164:MET:HB3	46:GD:197:ASP:HB2	1.93	0.49
45:GE:117:LEU:O	45:GE:121:ARG:HG2	2.12	0.49
45:GI:21:TRP:CZ2	45:GI:65:ALA:HB2	2.47	0.49
46:GJ:39:ASP:OD2	46:GJ:40:SER:N	2.44	0.49
45:GM:89:PRO:HG2	45:HM:280:LYS:HE2	1.94	0.49
46:HB:344:TRP:CE3	46:HB:345:ILE:HG23	2.47	0.49
45:HI:71:GLU:OE2	46:HJ:2:ARG:NH2	2.40	0.49
45:HI:72:PRO:HD2	46:HJ:2:ARG:NH2	2.27	0.49
46:HJ:178:THR:HG22	46:HJ:180:VAL:H	1.77	0.49
46:HN:116:VAL:HA	46:HN:119:VAL:HG12	1.94	0.49
45:IC:241:SER:OG	45:IC:250:VAL:O	2.24	0.49
45:IC:336:LYS:HD3	45:IC:351:PHE:CE2	2.46	0.49
46:IF:350:LYS:NZ	46:IF:352:SER:OG	2.26	0.49
45:IG:74:VAL:O	45:IG:77:GLU:HG3	2.12	0.49
45:JA:265:ILE:O	45:JA:265:ILE:HG13	2.12	0.49
45:JC:135:PHE:HB2	45:JC:166:LYS:HG2	1.94	0.49
46:JD:215:LEU:HB3	46:JD:217:LEU:HD23	1.94	0.49
45:JE:292:THR:HG22	45:JE:335:ILE:HD11	1.92	0.49
45:JG:50:ASN:HA	45:JG:53:PHE:O	2.11	0.49
46:JJ:372:THR:HA	46:JJ:422:TYR:CE2	2.44	0.49
45:JM:27:GLU:HB3	45:JM:361:THR:HG21	1.94	0.49
46:KB:8:GLN:HE21	46:KB:14:ASN:HA	1.76	0.49
45:KE:10:GLY:O	45:KE:14:ILE:HG12	2.11	0.49
46:KF:191:GLN:O	46:KF:195:ASN:ND2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KF:286:VAL:HG21	46:KF:325:GLU:HG3	1.93	0.49
45:KG:246:GLY:HA2	45:KG:357:TYR:CD2	2.47	0.49
45:KI:56:THR:O	45:LI:285:GLN:HA	2.12	0.49
46:KJ:20:PHE:HA	46:KJ:230:SER:OG	2.12	0.49
46:KJ:22:GLU:HG2	46:KJ:81:PHE:CE1	2.47	0.49
45:KK:390:ARG:O	45:KK:394:LYS:HG2	2.11	0.49
45:KM:49:PHE:CD2	45:KM:53:PHE:HB2	2.47	0.49
45:LA:204:LEU:HD13	45:LA:231:ILE:HD12	1.94	0.49
45:LA:371:VAL:HG22	45:LA:373:ARG:H	1.76	0.49
45:LC:183:GLU:N	45:LC:184:PRO:HD2	2.27	0.49
46:LH:165:GLU:HG2	46:LH:250:LEU:HD21	1.94	0.49
45:LI:250:VAL:HB	45:LI:352:LYS:HZ1	1.77	0.49
46:LJ:133:PHE:HB2	46:LJ:164:MET:SD	2.51	0.49
46:LN:293:MET:SD	46:LN:367:PHE:HB2	2.52	0.49
45:MC:174:SER:HB3	45:MC:177:VAL:O	2.12	0.49
46:ML:187:LEU:HD11	46:ML:408:PHE:CE1	2.47	0.49
45:NA:224:TYR:HD1	47:NA:501:GTP:C6	2.29	0.49
46:NF:105:HIS:CE1	46:NF:150:LEU:HD12	2.46	0.49
46:NJ:407:GLU:O	46:NJ:410:GLU:HG3	2.12	0.49
45:NK:97:GLU:HB2	46:NL:2:ARG:HH21	1.75	0.49
45:NK:326:LYS:HG3	45:NK:327:ASP:N	2.27	0.49
46:OB:64:ILE:HG13	46:OB:89:ASN:ND2	2.27	0.49
46:OD:135:ILE:HG13	46:OD:152:ILE:HD11	1.93	0.49
46:OD:245:GLN:HB3	46:OD:353:ILE:HB	1.94	0.49
45:OG:352:LYS:HZ1	46:OJ:178:THR:HG23	1.77	0.49
45:OI:255:PHE:O	45:OI:259:LEU:HG	2.12	0.49
46:OJ:178:THR:HB	46:OJ:181:GLU:HG3	1.94	0.49
46:OL:222:TYR:HD2	49:OL:501:GDP:C6	2.30	0.49
46:ON:70:PRO:HG3	46:ON:92:PHE:CD2	2.47	0.49
46:ON:130:LEU:HD21	46:ON:133:PHE:HE2	1.77	0.49
46:ON:150:LEU:O	46:ON:154:LYS:HG2	2.12	0.49
45:PE:239:THR:HG23	45:PE:243:ARG:HE	1.78	0.49
46:PH:67:ASP:O	46:PH:92:PHE:HA	2.13	0.49
46:PJ:7:ILE:HG22	46:PJ:64:ILE:HD13	1.94	0.49
46:PJ:86:ARG:HD3	46:QH:281:TYR:HD1	1.78	0.49
46:PJ:190:HIS:CE1	46:PJ:414:ASN:HD22	2.30	0.49
46:QB:86:ARG:HD2	46:RB:281:TYR:HB2	1.93	0.49
45:QC:288:VAL:HA	45:QC:291:ILE:HG12	1.94	0.49
45:QE:166:LYS:N	45:QE:199:ASP:OD2	2.38	0.49
45:QM:288:VAL:HG11	45:QM:327:ASP:HB3	1.93	0.49
45:RC:90:GLU:OE2	45:SC:280:LYS:NZ	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:117:LEU:HD22	46:RF:154:LYS:HD3	1.95	0.49
46:RL:16:ILE:HG21	46:RL:136:THR:HG21	1.94	0.49
45:SA:183:GLU:N	45:SA:184:PRO:HD2	2.27	0.49
46:SF:324:LYS:HE3	45:SG:214:ARG:CD	2.41	0.49
46:SH:117:LEU:HD11	46:SH:154:LYS:HZ1	1.77	0.49
46:SJ:229:VAL:HG12	46:SJ:233:MET:HE2	1.94	0.49
46:SJ:237:THR:HG23	46:SJ:241:ARG:HH21	1.77	0.49
46:TF:274:THR:HG23	46:TF:279:GLN:OE1	2.12	0.49
46:TL:30:ILE:HD11	46:TL:47:ILE:HD11	1.94	0.49
46:TL:346:PRO:HD2	45:TM:398:MET:HE2	1.94	0.49
45:UA:206:ASN:OD1	47:UA:501:GTP:N2	2.45	0.49
46:UB:229:VAL:O	46:UB:233:MET:HG2	2.12	0.49
46:UD:248:SER:HA	46:UD:252:LYS:HG3	1.93	0.49
45:UG:324:VAL:HG12	45:UG:326:LYS:HG2	1.94	0.49
46:UH:267:MET:SD	46:UH:374:ILE:HG22	2.52	0.49
46:UJ:341:PHE:CE2	46:UJ:349:ILE:HD11	2.46	0.49
46:UL:87:PRO:HA	46:UL:90:PHE:CD2	2.47	0.49
46:VB:132:GLY:CA	46:VB:163:ILE:O	2.54	0.49
46:VB:154:LYS:HA	46:VB:157:GLU:OE1	2.12	0.49
45:VC:268:MET:HB2	45:VC:379:SER:O	2.12	0.49
45:VE:88:HIS:O	45:VE:91:GLN:HG2	2.11	0.49
45:VG:318:MET:SD	45:VG:320:ARG:HB3	2.53	0.49
46:VH:16:ILE:HD12	46:VH:229:VAL:HG11	1.93	0.49
46:VH:116:VAL:HA	46:VH:119:VAL:HG12	1.94	0.49
45:VI:21:TRP:CZ2	45:VI:65:ALA:HB2	2.47	0.49
46:VJ:107:THR:OG1	46:VJ:108:GLU:OE1	2.21	0.49
46:VL:201:VAL:O	46:VL:202:ILE:HD13	2.11	0.49
45:VM:96:LYS:HE3	46:VN:129:CYS:HB2	1.94	0.49
45:WA:387:VAL:HA	45:WA:390:ARG:HG2	1.94	0.49
45:WC:210:TYR:CZ	46:WD:324:LYS:HD2	2.47	0.49
45:WI:288:VAL:HA	45:WI:291:ILE:HG12	1.94	0.49
45:WM:88:HIS:HB3	45:WM:91:GLN:HG2	1.94	0.49
45:WM:121:ARG:HA	45:WM:124:LYS:NZ	2.27	0.49
45:WM:210:TYR:HE1	45:WM:227:LEU:HD11	1.77	0.49
46:WN:16:ILE:HD12	46:WN:229:VAL:HG11	1.94	0.49
45:CE:255:PHE:O	45:CE:259:LEU:HB2	2.12	0.49
14:OV:69:SER:OG	46:MN:336:LYS:O	2.21	0.49
37:5F:11:TRP:CZ2	46:ND:57:GLY:HA3	2.47	0.49
37:5F:104:MET:HG3	37:5F:105:LYS:H	1.77	0.49
45:AE:294:SER:HA	45:AE:297:GLU:OE1	2.12	0.49
45:BC:221:ARG:NH1	46:BD:325:GLU:HG3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BI:183:GLU:N	45:BI:184:PRO:HD2	2.27	0.49
45:BK:271:SER:HA	45:BK:302:MET:HG2	1.93	0.49
46:BL:7:ILE:HB	46:BL:135:ILE:HG12	1.93	0.49
45:BM:171:ILE:O	45:BM:171:ILE:HG13	2.12	0.49
46:CB:207:LEU:HB3	46:CB:225:LEU:HD22	1.94	0.49
45:CC:5:ILE:HD12	45:CC:135:PHE:HE1	1.77	0.49
46:CD:16:ILE:HD13	46:CD:226:ASN:OD1	2.13	0.49
46:CD:166:THR:HG21	46:CD:192:LEU:HD11	1.94	0.49
46:CD:173:PRO:HD2	46:CD:174:LYS:HZ1	1.78	0.49
46:CD:258:ILE:HD11	45:CE:407:TRP:CZ2	2.47	0.49
45:CK:5:ILE:O	45:CK:135:PHE:HA	2.11	0.49
46:DB:116:VAL:HA	46:DB:119:VAL:HG22	1.93	0.49
45:DK:208:ALA:O	45:DK:212:ILE:HG12	2.12	0.49
45:DK:326:LYS:HG3	45:DK:327:ASP:N	2.25	0.49
46:EJ:67:ASP:OD1	46:EJ:68:LEU:N	2.44	0.49
46:EL:213:ARG:CZ	46:EL:297:LYS:HD2	2.41	0.49
46:EN:68:LEU:HD12	46:EN:93:GLY:HA3	1.94	0.49
45:FC:265:ILE:HD13	45:FC:432:TYR:CE1	2.47	0.49
46:FD:4:ILE:HG13	46:FD:132:GLY:O	2.12	0.49
46:FD:310:TYR:CD1	46:FD:371:SER:HB3	2.46	0.49
45:FG:101:ASN:HA	45:FG:144:GLY:H	1.78	0.49
45:FK:205:ASP:CG	45:FK:304:LYS:H	2.15	0.49
45:FK:430:LYS:HA	45:FK:433:GLU:CD	2.33	0.49
46:FL:406:MET:O	46:FL:409:THR:N	2.44	0.49
46:FN:113:ILE:HD12	46:FN:154:LYS:HZ3	1.76	0.49
46:GD:9:GLY:HA2	46:GD:66:MET:O	2.12	0.49
45:GG:209:ILE:HD13	45:GG:302:MET:HG2	1.94	0.49
45:GG:328:VAL:O	45:GG:332:ILE:HG12	2.12	0.49
46:GJ:175:VAL:HG22	46:GJ:205:GLU:HB2	1.93	0.49
45:GK:205:ASP:OD1	45:GK:303:ALA:HA	2.12	0.49
45:HA:212:ILE:HD11	45:HA:300:ASN:HA	1.94	0.49
46:HD:342:VAL:HG13	46:HD:345:ILE:HG22	1.94	0.49
45:IA:3:GLU:O	45:IA:133:GLN:N	2.31	0.49
45:IA:311:LYS:HE3	45:IA:342:GLN:HG3	1.95	0.49
45:IA:356:ASN:OD1	45:IA:358:GLN:NE2	2.44	0.49
46:ID:41:ASP:OD1	46:ID:42:LEU:HD12	2.12	0.49
46:ID:221:THR:HG23	46:ID:224:ASP:H	1.76	0.49
46:IF:372:THR:HA	46:IF:422:TYR:CE2	2.46	0.49
45:IG:27:GLU:OE2	45:IG:243:ARG:NH1	2.35	0.49
46:IH:69:GLU:CD	46:IH:71:GLY:H	2.14	0.49
45:JM:214:ARG:HG2	45:JM:214:ARG:HH11	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KB:69:GLU:OE1	46:KB:71:GLY:N	2.43	0.49
46:KB:286:VAL:HG21	46:KB:325:GLU:HG3	1.94	0.49
45:KC:259:LEU:HB3	45:KC:268:MET:SD	2.52	0.49
46:KH:318:ARG:HH21	46:KH:358:PRO:HG3	1.76	0.49
45:KM:17:GLY:HA2	45:KM:20:CYS:SG	2.52	0.49
46:KN:206:ALA:O	46:KN:210:ILE:HG12	2.12	0.49
45:LK:185:TYR:O	45:LK:189:LEU:HG	2.12	0.49
46:MH:380:ARG:HA	46:MH:383:GLU:HG2	1.94	0.49
45:MM:265:ILE:O	45:MM:265:ILE:HG13	2.12	0.49
46:MN:202:ILE:HD11	46:MN:268:ILE:HD11	1.94	0.49
45:NA:258:ASN:ND2	45:NA:352:LYS:HE3	2.27	0.49
45:NC:105:ARG:HG2	45:NC:110:ILE:HG12	1.95	0.49
45:NG:210:TYR:CE1	45:NG:227:LEU:HD21	2.47	0.49
45:NI:237:SER:HA	45:NI:320:ARG:HH11	1.77	0.49
45:NI:343:PHE:HZ	45:NI:351:PHE:HE1	1.59	0.49
46:NJ:5:VAL:HA	46:NJ:62:ARG:HD3	1.94	0.49
46:NJ:270:PHE:HE1	46:NJ:364:ALA:HB1	1.78	0.49
46:NL:22:GLU:HG2	46:NL:81:PHE:CE1	2.46	0.49
46:NL:148:GLY:O	46:NL:152:ILE:HD12	2.11	0.49
46:NL:167:PHE:CE2	46:NL:233:MET:HG3	2.37	0.49
46:NL:178:THR:HB	46:NL:181:GLU:HG3	1.94	0.49
45:NM:9:VAL:HG13	45:NM:139:ASN:HB3	1.95	0.49
45:OA:17:GLY:HA2	45:OA:20:CYS:SG	2.51	0.49
46:OD:238:CYS:SG	46:OD:318:ARG:NE	2.85	0.49
46:OD:285:THR:O	46:OD:288:GLU:HG3	2.12	0.49
45:OG:252:ILE:HD12	45:OG:252:ILE:H	1.77	0.49
45:OG:324:VAL:HG12	45:OG:326:LYS:HG2	1.95	0.49
46:OJ:199:CYS:HB3	46:OJ:265:PHE:CD1	2.47	0.49
46:OL:211:CYS:HA	46:OL:215:LEU:HB2	1.94	0.49
45:OM:221:ARG:HH22	46:ON:324:LYS:HG2	1.77	0.49
46:PB:290:THR:HA	46:PB:293:MET:HG2	1.95	0.49
46:QB:235:GLY:O	46:QB:316:LEU:HD23	2.12	0.49
46:QB:313:ALA:HB1	46:QB:367:PHE:HE1	1.77	0.49
45:QE:332:ILE:O	45:QE:335:ILE:HG12	2.12	0.49
46:QH:45:GLU:O	46:QH:46:ARG:NH1	2.45	0.49
46:QH:258:ILE:HD11	45:QI:407:TRP:CZ2	2.47	0.49
45:QK:328:VAL:O	45:QK:332:ILE:HG12	2.12	0.49
45:QK:344:VAL:HG11	45:QK:346:TRP:CE2	2.47	0.49
46:QL:86:ARG:HH11	46:RL:282:ARG:HH12	1.58	0.49
46:RF:12:CYS:HA	46:RF:15:GLN:NE2	2.26	0.49
45:RI:87:PHE:CD2	45:RI:92:LEU:HD21	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RI:259:LEU:HD12	45:RI:268:MET:HE3	1.93	0.49
46:RJ:187:LEU:HD21	46:RJ:408:PHE:HE1	1.76	0.49
46:RJ:347:ASN:HD21	45:RK:178:SER:HB2	1.77	0.49
45:SC:208:ALA:O	45:SC:212:ILE:HG12	2.12	0.49
46:SD:238:CYS:HB2	46:SD:318:ARG:NH1	2.27	0.49
46:SF:232:ALA:O	46:SF:236:VAL:HG23	2.13	0.49
46:SF:258:ILE:HG13	45:SG:407:TRP:HZ2	1.77	0.49
45:SI:88:HIS:CE1	45:SI:90:GLU:HG2	2.47	0.49
45:SI:244:PHE:HB2	45:SI:356:ASN:HD21	1.78	0.49
46:SJ:375:GLN:OE1	46:SJ:379:LYS:NZ	2.44	0.49
45:SK:102:ASN:ND2	45:SK:105:ARG:HG3	2.27	0.49
45:TE:135:PHE:HB2	45:TE:166:LYS:HG3	1.95	0.49
46:TH:247:ASN:ND2	45:TI:71:GLU:OE1	2.45	0.49
45:TI:101:ASN:ND2	45:TI:143:GLY:HA2	2.27	0.49
46:TL:173:PRO:HG2	46:TL:380:ARG:NE	2.27	0.49
46:TL:334:GLN:HG3	46:TL:341:PHE:CD2	2.48	0.49
45:UE:257:THR:HG22	46:UF:397:TRP:CH2	2.47	0.49
46:UH:105:HIS:CE1	46:UH:150:LEU:HD12	2.46	0.49
46:UH:178:THR:HG22	46:UH:180:VAL:H	1.78	0.49
46:UH:248:SER:HA	46:UH:252:LYS:HD2	1.94	0.49
46:UN:135:ILE:HB	46:UN:166:THR:HA	1.94	0.49
45:VC:210:TYR:CD1	46:VD:324:LYS:HG3	2.46	0.49
46:VF:100:ASN:ND2	46:VF:102:ALA:HB3	2.27	0.49
46:VN:64:ILE:HA	46:VN:89:ASN:HB3	1.93	0.49
46:WJ:105:HIS:CE1	46:WJ:150:LEU:HD13	2.47	0.49
46:WJ:183:TYR:HE2	46:WJ:394:PHE:HB2	1.77	0.49
45:WK:177:VAL:HG22	46:WL:331:LEU:HD13	1.94	0.49
46:WN:49:VAL:HG23	46:WN:50:TYR:HD2	1.77	0.49
46:WN:282:ARG:NH2	46:WN:288:GLU:HB2	2.27	0.49
45:CE:272:TYR:HD2	45:CE:275:ILE:HD11	1.77	0.49
25:1R:25:VAL:HG12	45:MC:46:ASP:HA	1.95	0.49
1:2A:83:LEU:HG	34:5R:70:ARG:NH1	2.27	0.49
31:2I:138:VAL:HG22	46:GD:337:ASN:OD1	2.11	0.49
23:2O:311:LYS:HE2	45:VE:359:PRO:HG3	1.95	0.49
25:2R:29:LYS:HD2	45:MG:45:GLY:N	2.27	0.49
37:5E:81:MET:HG3	37:5E:96:TYR:HE2	1.76	0.49
37:5E:87:LEU:HD13	37:5E:92:GLN:HB3	1.95	0.49
37:5G:54:LYS:HA	46:OJ:227:HIS:CE1	2.47	0.49
37:5H:108:LYS:HA	37:5H:108:LYS:HE2	1.92	0.49
46:AB:139:LEU:HD22	46:AB:170:VAL:HG12	1.92	0.49
46:AF:229:VAL:HG12	46:AF:233:MET:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:64:ARG:HH12	45:AI:128:ASN:HD22	1.59	0.49
45:AK:35:GLN:HE22	45:AK:59:GLY:HA3	1.76	0.49
46:AL:103:LYS:HA	46:AL:107:THR:HG22	1.94	0.49
46:AL:151:LEU:HA	46:AL:154:LYS:NZ	2.27	0.49
45:BA:226:ASN:OD1	45:BA:227:LEU:N	2.45	0.49
46:BH:65:LEU:HD22	46:BH:90:PHE:CE1	2.48	0.49
46:BJ:132:GLY:HA3	46:BJ:163:ILE:O	2.13	0.49
45:BK:322:ASP:OD1	45:BK:373:ARG:NH1	2.45	0.49
46:BL:293:MET:HE2	46:BL:367:PHE:HD1	1.76	0.49
45:BM:69:ASP:O	45:BM:94:SER:HA	2.12	0.49
45:BM:119:LEU:HA	45:BM:122:ILE:HG22	1.93	0.49
45:CA:216:ASN:ND2	45:CA:275:ILE:O	2.43	0.49
45:CC:334:THR:O	45:CC:338:LYS:HG3	2.12	0.49
46:CF:201:VAL:HG23	46:CF:301:CYS:SG	2.52	0.49
45:CM:147:SER:HB2	45:CM:190:SER:HB3	1.95	0.49
45:CM:193:SER:O	45:CM:197:HIS:ND1	2.42	0.49
46:DF:31:ASP:HB2	46:DF:37:HIS:ND1	2.28	0.49
46:DH:318:ARG:HB3	46:DH:357:PRO:HA	1.94	0.49
46:DJ:318:ARG:HB2	46:DJ:364:ALA:HB3	1.94	0.49
45:DM:384:ILE:O	45:DM:387:VAL:HG22	2.12	0.49
45:EE:171:ILE:HA	45:EE:204:LEU:HB2	1.93	0.49
45:EI:183:GLU:N	45:EI:184:PRO:HD2	2.28	0.49
46:EL:207:LEU:HD13	46:EL:225:LEU:HB3	1.93	0.49
45:FC:265:ILE:HG13	45:FC:380:ASN:HD21	1.77	0.49
45:FE:80:THR:O	45:FE:84:ARG:NH2	2.45	0.49
46:GB:345:ILE:O	46:GB:345:ILE:HG13	2.13	0.49
46:GD:233:MET:O	46:GD:236:VAL:HG12	2.13	0.49
46:GH:287:PRO:HA	46:GH:290:THR:HG22	1.93	0.49
45:GK:56:THR:OG1	45:HK:282:TYR:O	2.30	0.49
46:GN:372:THR:HA	46:GN:422:TYR:HE2	1.77	0.49
45:HA:221:ARG:HD2	46:HB:322:SER:OG	2.12	0.49
46:HD:252:LYS:HG2	46:HD:350:LYS:NZ	2.27	0.49
46:IF:198:GLU:HG2	46:IF:266:PHE:HE2	1.76	0.49
46:IH:211:CYS:HA	46:IH:215:LEU:HD13	1.94	0.49
45:IM:169:PHE:CE2	45:IM:235:ILE:HD12	2.47	0.49
46:JH:203:ASP:OD1	46:JH:205:GLU:HG3	2.11	0.49
46:JJ:313:ALA:HB1	46:JJ:367:PHE:HE1	1.78	0.49
45:JK:183:GLU:N	45:JK:184:PRO:HD2	2.27	0.49
46:JL:167:PHE:CZ	46:JL:233:MET:HG3	2.47	0.49
45:JM:5:ILE:HG21	45:JM:122:ILE:HD11	1.94	0.49
45:JM:345:ASP:OD1	45:JM:346:TRP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KB:282:ARG:HH12	46:KB:288:GLU:HB3	1.77	0.49
45:KI:406:HIS:HA	45:KI:409:VAL:HG12	1.94	0.49
45:KM:307:PRO:HB2	45:KM:312:TYR:HE1	1.77	0.49
45:LE:407:TRP:CH2	46:LF:255:VAL:HA	2.47	0.49
46:LL:116:VAL:HA	46:LL:119:VAL:HG12	1.93	0.49
45:MA:183:GLU:N	45:MA:184:PRO:HD2	2.27	0.49
45:MA:407:TRP:CZ2	46:MB:258:ILE:HD11	2.43	0.49
46:ML:213:ARG:HE	46:ML:297:LYS:HZ1	1.59	0.49
45:NA:96:LYS:NZ	46:NB:129:CYS:SG	2.71	0.49
45:NA:183:GLU:N	45:NA:184:PRO:HD2	2.27	0.49
46:ND:113:ILE:HD13	46:ND:154:LYS:HZ1	1.76	0.49
45:NE:29:GLY:O	45:NE:40:LYS:NZ	2.44	0.49
46:NF:257:LEU:HD21	46:NF:368:VAL:HG13	1.94	0.49
45:NG:186:ASN:OD1	45:NG:187:SER:N	2.45	0.49
45:NI:141:VAL:HG22	45:NI:187:SER:HA	1.94	0.49
46:NJ:48:ASN:O	46:NJ:62:ARG:NH1	2.46	0.49
46:NJ:386:THR:OG1	46:NJ:390:ARG:NH2	2.45	0.49
45:NK:329:ASN:HD22	46:NN:175:VAL:HG12	1.75	0.49
45:OA:209:ILE:HD13	45:OA:302:MET:HG3	1.93	0.49
45:OE:121:ARG:HD2	45:OE:124:LYS:HZ1	1.77	0.49
46:OL:113:ILE:HD13	46:OL:150:LEU:HD21	1.93	0.49
45:OM:121:ARG:HD2	45:OM:124:LYS:HE3	1.94	0.49
45:PA:181:VAL:N	46:PB:350:LYS:HZ2	2.11	0.49
46:PF:238:CYS:SG	46:PF:239:CYS:N	2.85	0.49
45:PG:174:SER:HB3	45:PG:207:GLU:HG2	1.94	0.49
46:PH:344:TRP:HE3	46:PH:345:ILE:HG23	1.77	0.49
45:PI:3:GLU:HG2	45:PI:64:ARG:NH2	2.27	0.49
46:PJ:172:SER:HB2	46:PJ:380:ARG:HH12	1.76	0.49
45:PK:2:ARG:NH1	45:PK:242:LEU:HD22	2.27	0.49
45:PM:97:GLU:OE1	46:PN:131:GLN:NE2	2.45	0.49
45:QA:53:PHE:HB3	45:QA:61:HIS:HB3	1.93	0.49
45:QC:136:LEU:HD13	45:QC:167:LEU:HB2	1.95	0.49
46:QD:317:PHE:HB2	46:QD:353:ILE:HD13	1.94	0.49
45:QG:127:ASP:OD1	45:QG:128:ASN:N	2.46	0.49
45:QG:371:VAL:HG22	45:QG:373:ARG:H	1.77	0.49
46:QH:310:TYR:CD1	46:QH:371:SER:HB2	2.47	0.49
45:QI:265:ILE:HG12	45:QI:432:TYR:HE2	1.77	0.49
46:QL:87:PRO:HA	46:QL:90:PHE:CD2	2.44	0.49
46:RD:386:THR:O	46:RD:390:ARG:HG3	2.12	0.49
45:RG:183:GLU:N	45:RG:184:PRO:HD2	2.27	0.49
46:RH:133:PHE:HB2	46:RH:164:MET:HE1	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RH:256:ASN:HB3	46:RH:257:LEU:HD12	1.94	0.49
45:RK:183:GLU:N	45:RK:184:PRO:HD2	2.27	0.49
45:RK:292:THR:HG21	45:RK:331:SER:HB2	1.93	0.49
46:RL:1:MET:HG3	46:RL:2:ARG:HD3	1.94	0.49
45:SA:331:SER:O	45:SA:335:ILE:HG12	2.13	0.49
45:SC:103:PHE:H	45:SC:408:TYR:HE2	1.61	0.49
46:SD:3:GLU:HB2	46:SD:127:CYS:SG	2.53	0.49
45:SE:320:ARG:HH21	45:SE:359:PRO:C	2.15	0.49
46:SH:178:THR:HB	46:SH:181:GLU:HG3	1.95	0.49
46:SJ:405:GLU:HA	46:SJ:408:PHE:CD2	2.47	0.49
45:SK:133:GLN:O	45:SK:164:LYS:NZ	2.42	0.49
45:SK:183:GLU:N	45:SK:184:PRO:HD2	2.28	0.49
45:SM:98:ASP:CG	45:SM:100:ALA:H	2.16	0.49
45:TA:109:THR:HG22	45:TA:110:ILE:HG23	1.93	0.49
45:TA:271:SER:OG	45:TA:301:MET:HG3	2.13	0.49
46:TB:164:MET:SD	46:TB:166:THR:HG23	2.52	0.49
45:TC:137:VAL:HG23	45:TC:168:GLY:HA2	1.93	0.49
46:TD:138:SER:HA	46:TD:169:VAL:HB	1.94	0.49
46:TF:21:TRP:CZ3	46:TF:61:PRO:HB3	2.48	0.49
46:TF:199:CYS:HB3	46:TF:265:PHE:CD1	2.47	0.49
46:TJ:22:GLU:HG2	46:TJ:81:PHE:CD2	2.47	0.49
46:TJ:317:PHE:CD2	46:TJ:365:VAL:HG22	2.47	0.49
45:TM:301:MET:HE2	45:TM:303:ALA:HB3	1.93	0.49
46:UB:86:ARG:HE	46:UB:88:ASP:HB3	1.77	0.49
46:UB:318:ARG:HB3	46:UB:364:ALA:HB3	1.95	0.49
46:UH:32:PRO:O	46:UH:83:GLN:NE2	2.41	0.49
46:UL:6:HIS:HD2	46:UL:21:TRP:HE1	1.59	0.49
46:UL:345:ILE:HG22	45:UM:398:MET:SD	2.52	0.49
45:UM:237:SER:HA	45:UM:320:ARG:CZ	2.43	0.49
45:VA:260:VAL:HG13	46:VD:397:TRP:CZ2	2.47	0.49
46:VB:156:ARG:HD3	46:VB:164:MET:HE1	1.94	0.49
46:VD:116:VAL:HA	46:VD:119:VAL:HG12	1.94	0.49
45:VE:224:TYR:HD1	45:VE:227:LEU:HD12	1.77	0.49
45:VG:136:LEU:HD23	45:VG:167:LEU:HB2	1.94	0.49
46:VH:108:GLU:O	46:VH:111:GLU:HG3	2.13	0.49
45:VM:188:ILE:HD11	45:VM:391:LEU:HB3	1.94	0.49
45:WA:96:LYS:NZ	46:WB:1:MET:SD	2.80	0.49
45:WA:178:SER:HB2	46:WB:347:ASN:ND2	2.28	0.49
45:WE:352:LYS:HZ3	46:WH:178:THR:HA	1.75	0.49
46:WN:256:ASN:HB3	46:WN:350:LYS:HE3	1.94	0.49
23:IO:232:GLY:HA3	46:TB:56:GLY:HA2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2D:177:THR:HG21	46:EJ:47:ILE:HG12	1.93	0.49
24:2P:385:ILE:HD13	45:TM:282:TYR:HD1	1.77	0.49
37:5F:164:LYS:H	37:5F:165:PRO:CD	2.25	0.49
40:6G:241:LYS:HE2	46:VD:335:ASN:C	2.32	0.49
40:6G:278:ASP:OD1	45:VA:214:ARG:NE	2.46	0.49
41:6H:247:LYS:HZ2	46:FF:227:HIS:HB3	1.78	0.49
44:8R:118:TYR:OH	45:OI:56:THR:HG23	2.12	0.49
46:AB:87:PRO:HA	46:AB:90:PHE:HD2	1.78	0.49
46:AJ:282:ARG:NH2	46:MJ:86:ARG:HD2	2.28	0.49
45:AM:311:LYS:HD3	45:AM:342:GLN:HG3	1.95	0.49
46:AN:268:ILE:HG22	46:AN:368:VAL:HG22	1.94	0.49
46:BB:97:ALA:HB3	46:BB:143:THR:HB	1.92	0.49
45:BC:294:SER:O	45:BC:297:GLU:HG2	2.12	0.49
46:BF:198:GLU:HG2	46:BF:266:PHE:HE2	1.76	0.49
45:BG:176:GLN:NE2	45:BG:177:VAL:HG23	2.27	0.49
46:BH:86:ARG:HH21	46:BH:87:PRO:HD3	1.77	0.49
46:BH:377:MET:HA	46:BH:380:ARG:HG2	1.95	0.49
46:BJ:9:GLY:HA3	46:BJ:66:MET:SD	2.52	0.49
45:BK:90:GLU:HG3	45:CK:280:LYS:HZ1	1.77	0.49
45:BM:212:ILE:HD11	45:BM:300:ASN:HA	1.94	0.49
45:CA:101:ASN:HA	45:CA:144:GLY:H	1.78	0.49
45:CC:183:GLU:N	45:CC:184:PRO:HD2	2.28	0.49
45:CG:326:LYS:HZ2	46:CH:220:PRO:HD2	1.76	0.49
46:CJ:318:ARG:HB3	46:CJ:357:PRO:HA	1.95	0.49
46:CL:406:MET:O	46:CL:410:GLU:HG2	2.13	0.49
45:DG:31:GLN:HB2	45:DG:32:PRO:HD2	1.93	0.49
45:DG:56:THR:HG21	45:DG:60:LYS:HG3	1.94	0.49
45:DG:328:VAL:O	45:DG:332:ILE:HD12	2.13	0.49
46:DL:49:VAL:HG21	46:DL:241:ARG:HG2	1.93	0.49
45:DM:269:LEU:HD22	45:DM:384:ILE:HD11	1.95	0.49
46:DN:207:LEU:HB3	46:DN:225:LEU:HD22	1.94	0.49
45:EA:108:TYR:HA	45:EA:112:LYS:HE3	1.95	0.49
45:EC:9:VAL:HG22	45:EC:146:GLY:HA2	1.93	0.49
45:EC:384:ILE:HG12	45:EC:388:PHE:HE1	1.77	0.49
46:EH:86:ARG:HD2	46:FH:282:ARG:NH2	2.28	0.49
45:FA:101:ASN:HA	45:FA:144:GLY:H	1.76	0.49
45:FA:398:MET:CE	46:FB:346:PRO:HD2	2.40	0.49
46:FB:12:CYS:O	46:FB:16:ILE:HG12	2.11	0.49
46:FH:318:ARG:HB3	46:FH:357:PRO:HA	1.95	0.49
45:FK:82:THR:HG23	45:FK:83:TYR:CD1	2.48	0.49
45:FK:231:ILE:O	45:FK:235:ILE:HG12	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GF:105:HIS:CE1	46:GF:150:LEU:HD12	2.48	0.49
45:GG:90:GLU:OE1	45:GG:121:ARG:NH1	2.45	0.49
45:GG:343:PHE:CZ	45:GG:351:PHE:HE1	2.30	0.49
45:GI:102:ASN:HD21	45:GI:411:GLU:HG3	1.78	0.49
46:GL:397:TRP:O	46:GL:400:GLY:N	2.44	0.49
45:GM:224:TYR:HD1	45:GM:227:LEU:HD12	1.76	0.49
46:HB:58:ARG:NH2	46:IB:281:TYR:HA	2.26	0.49
46:HF:293:MET:HE2	46:HF:367:PHE:HD1	1.76	0.49
45:HI:356:ASN:OD1	45:HI:357:TYR:N	2.45	0.49
45:HM:32:PRO:O	45:HM:85:GLN:NE2	2.42	0.49
45:IA:409:VAL:HA	45:IA:413:MET:O	2.13	0.49
45:IC:340:THR:HG23	45:IC:341:ILE:HG13	1.94	0.49
45:IC:377:MET:SD	45:IC:379:SER:HB3	2.52	0.49
46:ID:12:CYS:O	46:ID:16:ILE:HG12	2.12	0.49
45:IE:98:ASP:OD2	45:IE:99:ALA:N	2.46	0.49
45:IG:31:GLN:HE22	45:IG:37:PRO:HB3	1.78	0.49
46:IH:11:GLN:O	46:IH:15:GLN:HG2	2.11	0.49
46:IL:190:HIS:CD2	46:IL:411:ALA:HA	2.47	0.49
46:JB:19:LYS:NZ	46:JB:227:HIS:HB2	2.28	0.49
45:JE:103:PHE:HB2	45:JE:186:ASN:HB3	1.94	0.49
45:JE:260:VAL:HG13	46:JH:397:TRP:HE1	1.78	0.49
46:JJ:149:THR:HA	46:JJ:152:ILE:HD12	1.93	0.49
45:JK:205:ASP:OD1	45:JK:303:ALA:HA	2.12	0.49
45:KA:167:LEU:HG	45:KA:200:VAL:HB	1.94	0.49
45:KA:175:PRO:HD2	45:KA:207:GLU:OE2	2.12	0.49
46:KB:169:VAL:HG12	46:KB:202:ILE:HB	1.95	0.49
46:KF:204:ASN:ND2	49:KF:501:GDP:O2'	2.45	0.49
46:KF:285:THR:HG22	46:KF:288:GLU:HG2	1.94	0.49
45:KG:223:THR:HG23	45:KG:225:THR:H	1.77	0.49
45:KK:22:GLU:OE2	45:KK:83:TYR:HE2	1.95	0.49
45:KK:195:LEU:HD21	45:KK:264:ARG:NH1	2.28	0.49
46:KL:341:PHE:HB3	46:KL:348:ASN:HD21	1.77	0.49
46:KN:63:ALA:O	46:KN:89:ASN:ND2	2.46	0.49
46:KN:152:ILE:HG23	46:KN:164:MET:SD	2.53	0.49
46:KN:317:PHE:HB2	46:KN:353:ILE:HD13	1.93	0.49
45:LA:17:GLY:HA2	45:LA:20:CYS:SG	2.52	0.49
45:LA:147:SER:HB2	45:LA:190:SER:OG	2.13	0.49
45:LE:414:GLU:OE1	45:LE:415:GLU:HG3	2.12	0.49
45:LM:265:ILE:HG22	45:LM:432:TYR:HE1	1.78	0.49
46:MB:267:MET:HB2	46:MB:299:MET:HE1	1.95	0.49
46:MD:370:ASN:OD1	46:MD:422:TYR:OH	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:ME:178:SER:OG	45:ME:179:THR:N	2.45	0.49
45:NE:72:PRO:HD3	46:NF:2:ARG:HH22	1.77	0.49
45:NE:98:ASP:OD1	45:NE:99:ALA:N	2.45	0.49
45:NG:103:PHE:CE2	45:NG:189:LEU:HB3	2.48	0.49
46:NL:58:ARG:NH2	46:OL:280:GLN:O	2.44	0.49
46:NL:309:ARG:H	46:NL:372:THR:HG1	1.57	0.49
45:NM:72:PRO:HD2	46:NN:2:ARG:HH21	1.77	0.49
45:OA:49:PHE:HD2	45:OA:53:PHE:HB2	1.77	0.49
46:OD:163:ILE:HD11	46:OD:251:ARG:HG3	1.94	0.49
45:OE:107:HIS:ND1	45:OE:107:HIS:O	2.46	0.49
45:OE:245:ASP:N	45:OE:245:ASP:OD1	2.46	0.49
45:OG:326:LYS:NZ	46:OJ:220:PRO:O	2.35	0.49
46:OJ:204:ASN:OD1	49:OJ:501:GDP:O2'	2.29	0.49
46:ON:4:ILE:HD11	46:ON:131:GLN:HB2	1.94	0.49
46:ON:23:VAL:HA	46:ON:26:ASP:OD1	2.13	0.49
46:ON:32:PRO:HA	46:ON:84:LEU:HD21	1.94	0.49
46:ON:66:MET:HA	46:ON:91:VAL:O	2.12	0.49
46:PD:253:LEU:HD12	46:PD:257:LEU:HD13	1.94	0.49
45:PE:175:PRO:HA	45:PE:390:ARG:NH1	2.28	0.49
45:PE:352:LYS:NZ	46:PH:178:THR:OG1	2.32	0.49
45:PG:231:ILE:O	45:PG:235:ILE:HG12	2.13	0.49
45:PK:356:ASN:OD1	45:PK:357:TYR:N	2.45	0.49
46:PN:286:VAL:HA	46:PN:289:LEU:HD12	1.95	0.49
45:QA:169:PHE:CE2	45:QA:235:ILE:HD12	2.47	0.49
46:QB:54:ALA:HB3	46:QB:58:ARG:HG2	1.93	0.49
45:QC:319:TYR:CE2	45:QC:375:VAL:HB	2.48	0.49
45:QE:387:VAL:HA	45:QE:390:ARG:HG2	1.94	0.49
45:QG:20:CYS:HA	45:QG:232:ALA:HB1	1.94	0.49
46:QH:8:GLN:NE2	46:QH:14:ASN:HA	2.27	0.49
45:QI:55:GLU:HG3	45:QI:57:GLY:H	1.76	0.49
45:QK:183:GLU:N	45:QK:184:PRO:HD2	2.27	0.49
45:QM:326:LYS:HG2	46:QN:220:PRO:HD2	1.95	0.49
45:RA:183:GLU:N	45:RA:184:PRO:HD2	2.27	0.49
46:RB:398:TYR:HB3	46:RB:403:MET:SD	2.53	0.49
45:RE:141:VAL:HG22	45:RE:187:SER:HA	1.93	0.49
45:RG:67:PHE:HB2	45:RG:92:LEU:HD13	1.93	0.49
45:RK:166:LYS:N	45:RK:199:ASP:OD2	2.36	0.49
45:SA:231:ILE:O	45:SA:235:ILE:HG12	2.12	0.49
46:SB:167:PHE:HD2	46:SB:202:ILE:HD11	1.76	0.49
45:SG:53:PHE:O	45:SG:64:ARG:NE	2.43	0.49
45:SI:102:ASN:ND2	45:SI:105:ARG:HG3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:117:LEU:HA	46:SJ:120:VAL:HG22	1.95	0.49
46:SL:394:PHE:HB3	46:SL:397:TRP:CE3	2.47	0.49
45:SM:138:PHE:HE1	45:SM:169:PHE:CD2	2.31	0.49
45:SM:223:THR:HG23	45:SM:225:THR:H	1.75	0.49
45:TA:184:PRO:O	45:TA:188:ILE:HG12	2.13	0.49
45:TE:88:HIS:CE1	45:TE:90:GLU:HG2	2.48	0.49
46:TF:69:GLU:CD	46:TF:71:GLY:H	2.15	0.49
45:TK:9:VAL:HG13	45:TK:139:ASN:HB3	1.95	0.49
45:TK:184:PRO:O	45:TK:188:ILE:HG12	2.12	0.49
46:TL:21:TRP:HA	46:TL:24:ILE:HG12	1.94	0.49
46:UB:21:TRP:HA	46:UB:24:ILE:HG22	1.94	0.49
46:UB:73:MET:HE3	46:UB:77:ARG:HH21	1.77	0.49
46:UB:290:THR:HA	46:UB:293:MET:HG2	1.93	0.49
46:UB:309:ARG:H	46:UB:426:GLN:HE22	1.61	0.49
46:UD:107:THR:HG1	46:UD:108:GLU:CD	2.15	0.49
45:UE:226:ASN:HA	45:UE:229:ARG:HD2	1.94	0.49
45:UG:31:GLN:NE2	45:UG:37:PRO:HB3	2.22	0.49
45:UG:121:ARG:HA	45:UG:121:ARG:NH1	2.28	0.49
45:UM:77:GLU:O	45:UM:84:ARG:NH2	2.31	0.49
46:UN:6:HIS:HB3	46:UN:63:ALA:HA	1.95	0.49
45:VA:27:GLU:HB3	45:VA:361:THR:HG21	1.93	0.49
45:VA:254:GLU:HG2	46:VD:98:GLY:HA2	1.93	0.49
46:VB:97:ALA:HB3	46:VB:143:THR:HB	1.92	0.49
46:VB:186:THR:HA	46:VB:189:VAL:HG12	1.94	0.49
45:VC:330:ALA:O	45:VC:334:THR:HG23	2.12	0.49
45:VG:430:LYS:O	45:VG:433:GLU:HG2	2.13	0.49
45:VI:258:ASN:ND2	45:VI:352:LYS:HE3	2.27	0.49
45:VI:326:LYS:HD2	45:VI:326:LYS:H	1.77	0.49
46:VJ:237:THR:HG23	46:VJ:241:ARG:HH21	1.78	0.49
46:VN:267:MET:HG3	46:VN:301:CYS:SG	2.53	0.49
45:WA:155:GLU:HB3	45:WA:156:ARG:HH22	1.77	0.49
46:WB:4:ILE:HG23	46:WB:132:GLY:O	2.12	0.49
45:WE:107:HIS:ND1	45:WE:107:HIS:O	2.46	0.49
46:WF:140:GLY:HA2	46:WF:181:GLU:OE2	2.13	0.49
45:WK:60:LYS:HG2	45:WK:61:HIS:N	2.27	0.49
45:CE:319:TYR:CD2	45:CE:323:VAL:HG21	2.47	0.49
4:0D:167:ILE:HG23	45:EC:80:THR:HG22	1.94	0.49
3:1C:80:ARG:HH22	46:EL:360:GLY:H	1.60	0.49
20:1K:212:ARG:NH2	45:GA:370:LYS:HG3	2.25	0.49
9:1N:482:VAL:HG21	45:II:39:ASP:HB3	1.93	0.49
1:2A:67:PRO:HG3	46:MJ:53:GLU:CG	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:2X:45:GLN:NE2	45:MI:282:TYR:CG	2.80	0.49
36:5D:87:ARG:HD3	36:5D:87:ARG:H	1.78	0.49
10:5Q:41:ASP:HB2	10:5Q:129:TRP:HE1	1.78	0.49
41:6H:306:LYS:HE2	41:6H:306:LYS:HA	1.93	0.49
45:AC:181:VAL:HG23	45:AC:182:VAL:HG13	1.93	0.49
45:AK:212:ILE:HD11	45:AK:300:ASN:HA	1.94	0.49
46:AN:238:CYS:SG	46:AN:318:ARG:HD2	2.53	0.49
45:BA:175:PRO:HA	45:BA:390:ARG:HE	1.78	0.49
45:BC:231:ILE:O	45:BC:235:ILE:HG12	2.12	0.49
46:BD:237:THR:O	46:BD:241:ARG:NH1	2.45	0.49
45:BG:230:LEU:O	45:BG:234:VAL:HG23	2.12	0.49
45:BG:387:VAL:HG12	45:BG:390:ARG:NH1	2.27	0.49
45:BI:331:SER:O	45:BI:335:ILE:HG12	2.13	0.49
46:BJ:58:ARG:HD3	46:CH:280:GLN:CD	2.33	0.49
46:BJ:318:ARG:HB3	46:BJ:357:PRO:HA	1.95	0.49
45:BM:384:ILE:O	45:BM:387:VAL:HG22	2.12	0.49
45:CA:294:SER:O	45:CA:297:GLU:HG2	2.12	0.49
45:CK:104:ALA:HB2	45:CK:413:MET:HG3	1.94	0.49
46:CN:309:ARG:NH2	46:CN:426:GLN:O	2.37	0.49
45:DA:88:HIS:HB3	45:DA:91:GLN:HG2	1.95	0.49
46:DB:4:ILE:HG13	46:DB:132:GLY:O	2.12	0.49
46:DB:267:MET:CE	46:DB:301:CYS:HB2	2.42	0.49
45:DE:384:ILE:O	45:DE:387:VAL:HG22	2.12	0.49
46:DF:65:LEU:HD22	46:DF:90:PHE:CE1	2.47	0.49
45:DK:215:ARG:HG3	45:DK:216:ASN:OD1	2.12	0.49
46:DL:350:LYS:HZ2	45:DM:181:VAL:HG13	1.78	0.49
45:EA:37:PRO:HG2	45:EA:40:LYS:HD2	1.93	0.49
46:EB:167:PHE:CE2	46:EB:233:MET:HG2	2.47	0.49
45:EE:20:CYS:HA	45:EE:232:ALA:HB1	1.95	0.49
46:EH:177:ASP:OD2	49:EH:501:GDP:H3'	2.11	0.49
45:EK:183:GLU:N	45:EK:184:PRO:HD2	2.28	0.49
46:EN:105:HIS:CD2	46:EN:150:LEU:HB2	2.47	0.49
45:FC:407:TRP:CZ2	46:FD:258:ILE:HD11	2.40	0.49
45:FG:178:SER:OG	45:FG:183:GLU:OE1	2.31	0.49
45:FM:109:THR:HG22	45:FM:110:ILE:HG23	1.93	0.49
45:GA:208:ALA:O	45:GA:212:ILE:HG12	2.13	0.49
45:GA:390:ARG:O	45:GA:394:LYS:HG3	2.12	0.49
46:GB:207:LEU:HD13	46:GB:225:LEU:HB3	1.95	0.49
46:GB:285:THR:HB	46:GB:287:PRO:HD2	1.95	0.49
45:GG:73:THR:O	45:GG:76:ASP:N	2.44	0.49
45:GI:210:TYR:HB3	46:GJ:324:LYS:HZ1	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:80:THR:O	45:GK:84:ARG:NH2	2.27	0.49
45:HA:185:TYR:OH	45:HA:398:MET:HG3	2.13	0.49
45:HC:284:GLU:CD	45:HC:286:LEU:H	2.15	0.49
46:HD:6:HIS:O	46:HD:63:ALA:HA	2.12	0.49
45:HM:231:ILE:O	45:HM:235:ILE:HG12	2.12	0.49
46:HN:32:PRO:HB3	46:HN:81:PHE:HA	1.94	0.49
46:IB:16:ILE:HD12	46:IB:229:VAL:HG21	1.95	0.49
46:ID:64:ILE:HD13	46:ID:119:VAL:HG13	1.95	0.49
45:II:387:VAL:HA	45:II:390:ARG:HG2	1.95	0.49
45:IK:74:VAL:O	45:IK:77:GLU:HG3	2.13	0.49
46:IL:73:MET:CE	46:IL:92:PHE:HB3	2.42	0.49
45:IM:406:HIS:CE1	46:IN:261:PRO:HD3	2.47	0.49
45:JG:330:ALA:O	45:JG:334:THR:HG23	2.13	0.49
46:JL:139:LEU:HD12	46:JL:170:VAL:HG12	1.95	0.49
46:KB:63:ALA:O	46:KB:89:ASN:ND2	2.37	0.49
45:KG:11:GLN:HG2	45:KG:74:VAL:HG11	1.94	0.49
45:KI:227:LEU:O	45:KI:231:ILE:HG12	2.13	0.49
45:KI:321:GLY:HA3	45:KI:372:MET:O	2.12	0.49
46:KL:3:GLU:HA	46:KL:49:VAL:HG23	1.94	0.49
45:LG:15:GLN:OE1	47:LG:501:GTP:N7	2.46	0.49
45:LK:66:VAL:HG11	45:LK:122:ILE:HD11	1.95	0.49
45:LM:30:ILE:HD13	45:LM:36:MET:SD	2.53	0.49
46:MB:1:MET:HG3	46:MB:2:ARG:H	1.76	0.49
46:MB:423:GLN:NE2	46:MB:424:GLN:OE1	2.45	0.49
45:ME:319:TYR:CB	45:ME:323:VAL:HG11	2.43	0.49
46:MJ:238:CYS:SG	46:MJ:239:CYS:N	2.86	0.49
45:MM:222:PRO:HD2	46:MN:324:LYS:HG2	1.95	0.49
46:ND:187:LEU:HD11	46:ND:408:PHE:HE2	1.78	0.49
46:NF:242:PHE:HB3	46:NF:356:ILE:HD13	1.94	0.49
45:NI:98:ASP:OD1	45:NI:99:ALA:N	2.45	0.49
46:NJ:314:SER:HA	46:NJ:350:LYS:HB2	1.93	0.49
46:NN:318:ARG:HB3	46:NN:357:PRO:HA	1.95	0.49
45:OA:200:VAL:HG13	45:OA:268:MET:CE	2.43	0.49
45:OA:270:SER:HA	45:OA:377:MET:O	2.13	0.49
46:OB:68:LEU:HD12	46:OB:143:THR:OG1	2.12	0.49
45:OC:49:PHE:HB2	45:OC:53:PHE:HB2	1.93	0.49
45:OC:80:THR:O	45:OC:84:ARG:NH2	2.45	0.49
45:OC:336:LYS:HE3	45:OC:336:LYS:HA	1.94	0.49
46:OF:67:ASP:OD2	46:OF:68:LEU:N	2.42	0.49
46:OF:148:GLY:O	46:OF:152:ILE:HG12	2.11	0.49
45:OG:152:LEU:O	45:OG:155:GLU:HG3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:18:ALA:HB3	46:OJ:19:LYS:HZ2	1.76	0.49
45:OK:21:TRP:CZ2	45:OK:65:ALA:HB2	2.47	0.49
45:PA:258:ASN:CB	45:PA:352:LYS:HE3	2.42	0.49
45:PC:324:VAL:CG1	45:PC:326:LYS:HE2	2.41	0.49
46:PD:2:ARG:HD2	46:PD:131:GLN:HE21	1.77	0.49
45:PG:93:ILE:HG21	45:PG:117:LEU:HD11	1.95	0.49
45:PG:155:GLU:HA	45:PG:197:HIS:CD2	2.47	0.49
46:PH:226:ASN:ND2	49:PH:501:GDP:HN1	2.08	0.49
45:PI:71:GLU:OE2	46:PJ:2:ARG:NH2	2.46	0.49
46:PL:73:MET:HA	46:PL:76:VAL:HG12	1.95	0.49
46:PL:314:SER:HA	46:PL:350:LYS:HB3	1.95	0.49
46:PN:119:VAL:O	46:PN:123:GLU:OE1	2.31	0.49
45:QA:326:LYS:NZ	46:QB:220:PRO:O	2.35	0.49
46:QD:187:LEU:HD21	46:QD:408:PHE:HE2	1.77	0.49
45:QE:223:THR:HG23	45:QE:225:THR:H	1.78	0.49
46:QF:226:ASN:HA	46:QF:229:VAL:HG12	1.93	0.49
45:QG:183:GLU:N	45:QG:184:PRO:HD2	2.27	0.49
45:QI:260:VAL:HG23	46:QJ:397:TRP:HE1	1.78	0.49
45:QK:188:ILE:HD12	45:QK:425:LEU:HD11	1.94	0.49
45:RA:294:SER:O	45:RA:300:ASN:ND2	2.24	0.49
45:RC:12:GLY:HA2	45:RC:15:GLN:HE21	1.77	0.49
45:RC:268:MET:HB2	45:RC:379:SER:O	2.12	0.49
45:RE:183:GLU:N	45:RE:184:PRO:HD2	2.28	0.49
46:RH:10:GLY:O	46:RH:14:ASN:ND2	2.45	0.49
46:RH:156:ARG:HD3	46:RH:160:PRO:HA	1.95	0.49
46:RL:258:ILE:HG13	46:RL:266:PHE:HZ	1.76	0.49
46:RL:272:PRO:HG3	46:RL:289:LEU:HD21	1.94	0.49
45:SC:288:VAL:HA	45:SC:291:ILE:HG22	1.93	0.49
45:SC:371:VAL:HG22	45:SC:373:ARG:H	1.77	0.49
46:SH:334:GLN:HA	46:SH:341:PHE:HE2	1.77	0.49
45:SI:56:THR:HG23	45:SI:58:ALA:H	1.78	0.49
45:SK:326:LYS:HD2	46:SL:212:PHE:CZ	2.48	0.49
45:TA:231:ILE:O	45:TA:235:ILE:HG12	2.12	0.49
45:TE:231:ILE:O	45:TE:235:ILE:HG12	2.13	0.49
46:TF:12:CYS:O	46:TF:16:ILE:HG12	2.13	0.49
46:TF:118:ASP:OD1	46:TF:121:ARG:NH1	2.46	0.49
46:TF:119:VAL:O	46:TF:122:LYS:HG3	2.12	0.49
45:TI:21:TRP:CZ2	45:TI:65:ALA:HB2	2.48	0.49
46:TJ:25:SER:OG	46:TJ:51:TYR:OH	2.25	0.49
46:TL:344:TRP:HA	45:TM:397:LEU:HD21	1.94	0.49
45:UA:326:LYS:NZ	46:UB:220:PRO:O	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:109:GLY:HA3	46:UD:147:MET:HE3	1.95	0.49
45:UG:89:PRO:CD	45:VE:280:LYS:HE2	2.40	0.49
45:UG:287:SER:N	45:UG:290:GLU:OE2	2.45	0.49
45:UG:340:THR:HG23	45:UG:341:ILE:HG13	1.94	0.49
46:UH:9:GLY:HA3	46:UH:66:MET:SD	2.52	0.49
45:UI:183:GLU:N	45:UI:184:PRO:HD2	2.27	0.49
45:VA:294:SER:O	45:VA:300:ASN:ND2	2.27	0.49
46:VB:118:ASP:HA	46:VB:121:ARG:NH1	2.28	0.49
46:VJ:309:ARG:NH2	46:VJ:426:GLN:O	2.39	0.49
46:VL:280:GLN:HG2	46:VL:281:TYR:HD1	1.77	0.49
46:VN:32:PRO:O	46:VN:83:GLN:NE2	2.45	0.49
45:WC:335:ILE:HD13	45:WC:338:LYS:HZ1	1.77	0.49
45:WE:8:HIS:HB2	45:WE:67:PHE:CD1	2.47	0.49
46:WF:318:ARG:HH11	46:WF:358:PRO:HG3	1.78	0.49
46:WH:226:ASN:HA	46:WH:229:VAL:HG12	1.95	0.49
4:OD:55:GLY:N	45:EC:221:ARG:HE	2.08	0.49
5:OE:60:THR:HA	46:DB:37:HIS:HD2	1.77	0.49
10:OQ:6:PHE:CZ	45:WA:121:ARG:NH1	2.80	0.49
3:1C:53:TYR:HB3	45:EM:221:ARG:NH2	2.25	0.49
28:2F:93:GLU:O	45:HE:308:ARG:NH1	2.46	0.49
20:2K:245:TRP:CZ2	46:GN:277:GLY:HA2	2.48	0.49
20:2K:291:GLN:HE22	46:FL:55:THR:C	2.16	0.49
24:2P:439:HIS:HE1	45:TK:369:ALA:HB1	1.76	0.49
26:2W:189:ARG:N	45:KM:46:ASP:OD2	2.29	0.49
14:3V:113:ARG:N	45:LA:196:GLU:OE2	2.45	0.49
27:4C:69:VAL:HG22	46:LN:41:ASP:OD1	2.13	0.49
37:5E:87:LEU:HD11	37:5E:99:ARG:HH22	1.78	0.49
37:5G:121:GLU:OE1	45:OI:370:LYS:NZ	2.29	0.49
37:5G:165:PRO:HD2	37:5G:166:ARG:HH11	1.77	0.49
35:5S:131:GLY:HA3	35:5S:135:ILE:HD11	1.94	0.49
39:6F:26:TRP:HE3	39:6F:30:ARG:HD3	1.78	0.49
34:7R:211:ALA:O	34:7R:214:THR:OG1	2.24	0.49
34:7R:268:GLU:OE1	46:DB:280:GLN:HG2	2.13	0.49
34:7R:401:VAL:HG12	46:EB:277:GLY:HA2	1.95	0.49
45:AC:171:ILE:HG23	45:AC:204:LEU:O	2.13	0.49
46:AD:229:VAL:HG12	46:AD:233:MET:HE2	1.94	0.49
46:AD:281:TYR:OH	46:MD:83:GLN:OE1	2.26	0.49
46:AF:69:GLU:CD	46:AF:71:GLY:H	2.16	0.49
45:AK:241:SER:OG	45:AK:250:VAL:O	2.25	0.49
45:BG:222:PRO:O	46:BH:322:SER:OG	2.13	0.49
46:BL:19:LYS:HA	46:BL:19:LYS:HE2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BL:222:TYR:O	46:BL:226:ASN:ND2	2.27	0.49
46:CB:268:ILE:HG13	46:CB:300:MET:HG3	1.93	0.49
46:CF:64:ILE:HD11	46:CF:123:GLU:HG3	1.94	0.49
46:CF:68:LEU:HD21	46:CF:147:MET:HE3	1.95	0.49
46:CF:294:PHE:CD2	46:CF:333:VAL:HG11	2.48	0.49
45:CI:208:ALA:O	45:CI:212:ILE:HG12	2.12	0.49
45:CI:387:VAL:HA	45:CI:390:ARG:HD3	1.94	0.49
45:CI:387:VAL:HG23	45:CI:388:PHE:CD1	2.47	0.49
45:DA:176:GLN:NE2	45:DA:207:GLU:OE2	2.46	0.49
45:DE:260:VAL:HG23	46:DF:397:TRP:CZ2	2.47	0.49
46:DL:97:ALA:HB2	46:DL:143:THR:HB	1.94	0.49
46:DN:42:LEU:HA	46:DN:45:GLU:HG3	1.95	0.49
46:EB:105:HIS:CE1	46:EB:150:LEU:HD12	2.48	0.49
45:EG:188:ILE:HG23	45:EG:425:LEU:HD11	1.93	0.49
45:EI:311:LYS:N	45:EI:382:THR:OG1	2.40	0.49
46:FD:105:HIS:CE1	46:FD:150:LEU:HD12	2.47	0.49
45:FE:205:ASP:OD1	45:FE:303:ALA:HA	2.13	0.49
45:FI:353:VAL:HG12	46:FL:177:ASP:OD1	2.12	0.49
45:FM:183:GLU:N	45:FM:184:PRO:HD2	2.27	0.49
45:GG:208:ALA:O	45:GG:212:ILE:HG12	2.13	0.49
45:GI:183:GLU:N	45:GI:184:PRO:HD2	2.28	0.49
46:HB:240:LEU:HD21	46:HB:250:LEU:HG	1.94	0.49
46:HD:12:CYS:O	46:HD:16:ILE:HG12	2.12	0.49
46:HF:200:MET:HG2	46:HF:266:PHE:HB2	1.93	0.49
45:HG:31:GLN:OE1	45:HG:37:PRO:HD3	2.12	0.49
45:HG:237:SER:HA	45:HG:320:ARG:HH11	1.76	0.49
45:HI:89:PRO:HD3	45:II:283:HIS:HD1	1.76	0.49
45:HK:396:ASP:OD1	45:HK:397:LEU:N	2.45	0.49
45:HM:188:ILE:HD11	45:HM:391:LEU:HB3	1.95	0.49
45:IA:49:PHE:O	45:IA:53:PHE:N	2.37	0.49
45:IE:163:LYS:HA	45:IE:163:LYS:HE2	1.94	0.49
45:IG:180:ALA:HA	46:IH:350:LYS:NZ	2.28	0.49
45:IG:387:VAL:HA	45:IG:390:ARG:HG2	1.93	0.49
45:II:97:GLU:OE2	45:II:105:ARG:NH1	2.33	0.49
45:IK:237:SER:HA	45:IK:320:ARG:HH11	1.77	0.49
46:IN:213:ARG:HD2	46:IN:297:LYS:HE2	1.94	0.49
46:IN:282:ARG:HE	46:IN:288:GLU:CD	2.16	0.49
46:JF:178:THR:OG1	46:JF:181:GLU:HG3	2.13	0.49
46:JF:374:ILE:O	46:JF:377:MET:HG2	2.13	0.49
46:JL:3:GLU:OE2	46:JL:3:GLU:N	2.45	0.49
45:JM:75:ILE:HG23	45:JM:92:LEU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JN:224:ASP:HA	46:JN:227:HIS:HB2	1.95	0.49
45:KA:17:GLY:HA2	45:KA:20:CYS:SG	2.53	0.49
46:KB:372:THR:HG21	46:KB:426:GLN:HB3	1.95	0.49
46:KD:289:LEU:HD13	46:KD:365:VAL:HG23	1.95	0.49
45:KE:141:VAL:HG12	45:KE:171:ILE:O	2.12	0.49
45:KK:319:TYR:CE2	45:KK:328:VAL:HG22	2.48	0.49
46:KL:107:THR:HG1	46:KL:108:GLU:CD	2.15	0.49
45:LE:183:GLU:N	45:LE:184:PRO:HD2	2.28	0.49
46:LH:186:THR:HA	46:LH:189:VAL:HG12	1.94	0.49
45:LI:223:THR:HG22	45:LI:224:TYR:N	2.25	0.49
45:LK:209:ILE:HD11	45:LK:302:MET:HG3	1.95	0.49
46:LL:212:PHE:CE1	46:LL:220:PRO:HG2	2.48	0.49
46:MB:63:ALA:O	46:MB:89:ASN:ND2	2.40	0.49
45:MC:49:PHE:HB2	45:MC:53:PHE:HB2	1.94	0.49
45:ME:178:SER:HB3	46:MF:347:ASN:ND2	2.27	0.49
45:ME:414:GLU:CD	45:ME:416:GLY:H	2.16	0.49
46:MF:107:THR:HG23	46:MF:108:GLU:HG3	1.94	0.49
45:MI:102:ASN:ND2	45:MI:105:ARG:HG3	2.28	0.49
46:NB:173:PRO:HG3	46:NB:380:ARG:HD2	1.93	0.49
45:NE:90:GLU:HB2	45:NE:121:ARG:HH12	1.78	0.49
46:NF:127:CYS:SG	46:NF:130:LEU:HB2	2.53	0.49
45:NG:96:LYS:HD3	46:NH:1:MET:HE2	1.95	0.49
46:NH:4:ILE:HG13	46:NH:132:GLY:O	2.11	0.49
46:NN:22:GLU:HB3	46:NN:81:PHE:HD2	1.77	0.49
46:NN:173:PRO:HD3	46:NN:380:ARG:HD3	1.94	0.49
45:OA:100:ALA:HA	46:OB:252:LYS:HE3	1.94	0.49
46:OB:286:VAL:HG11	46:OB:326:VAL:HG22	1.95	0.49
46:ON:179:VAL:HG13	46:ON:180:VAL:HG13	1.95	0.49
45:PA:348:PRO:HD3	46:PD:388:MET:HE1	1.95	0.49
46:PB:347:ASN:ND2	46:PB:349:ILE:HG22	2.27	0.49
45:PE:419:SER:O	45:PE:423:GLU:HG2	2.12	0.49
45:PG:200:VAL:HG13	45:PG:268:MET:SD	2.53	0.49
46:PN:86:ARG:HB3	46:PN:89:ASN:OD1	2.13	0.49
46:PN:99:ASN:HA	46:PN:142:GLY:H	1.78	0.49
45:QA:88:HIS:HB3	45:QA:91:GLN:HG2	1.94	0.49
45:QC:223:THR:HG23	45:QC:225:THR:H	1.77	0.49
46:QD:238:CYS:HA	46:QD:241:ARG:NH1	2.28	0.49
45:QE:72:PRO:O	45:QE:76:ASP:HB2	2.13	0.49
45:QG:223:THR:HG23	45:QG:225:THR:H	1.77	0.49
46:QL:206:ALA:O	46:QL:210:ILE:HG12	2.13	0.49
46:QL:324:LYS:HB2	45:QM:210:TYR:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QL:331:LEU:HD22	45:QM:176:GLN:HG2	1.94	0.49
46:QN:97:ALA:HA	46:QN:103:LYS:HG2	1.95	0.49
46:RB:164:MET:HB3	46:RB:197:ASP:H	1.78	0.49
46:RB:379:LYS:O	46:RB:383:GLU:OE1	2.31	0.49
45:RC:93:ILE:HG22	45:RC:114:ILE:HD11	1.95	0.49
46:RD:325:GLU:HA	46:RD:328:GLU:HG2	1.95	0.49
46:RF:260:PHE:HB2	46:RF:263:LEU:HD13	1.95	0.49
46:RH:37:HIS:ND1	46:RH:37:HIS:O	2.46	0.49
46:RH:101:TRP:HB2	46:RH:184:ASN:HB3	1.95	0.49
46:RJ:97:ALA:HB3	46:RJ:143:THR:HB	1.94	0.49
46:RL:21:TRP:CZ3	46:RL:61:PRO:HB3	2.48	0.49
46:RN:135:ILE:HG13	46:RN:152:ILE:HD11	1.95	0.49
46:SB:133:PHE:H	46:SB:164:MET:HE1	1.78	0.49
46:SH:66:MET:SD	46:SH:91:VAL:HG23	2.53	0.49
46:SJ:238:CYS:HB3	46:SJ:318:ARG:NH1	2.27	0.49
46:SJ:324:LYS:HE3	45:SK:222:PRO:HG2	1.94	0.49
45:SM:183:GLU:N	45:SM:184:PRO:HD2	2.28	0.49
45:TA:140:SER:OG	47:TA:501:GTP:O2B	2.31	0.49
45:TA:167:LEU:HG	45:TA:200:VAL:HB	1.95	0.49
45:TA:183:GLU:N	45:TA:184:PRO:HD2	2.27	0.49
46:TB:309:ARG:NH2	46:TB:426:GLN:O	2.37	0.49
45:TC:280:LYS:HE3	45:TC:284:GLU:OE2	2.13	0.49
46:TD:282:ARG:HE	46:TD:283:ALA:N	2.09	0.49
46:TD:385:PHE:CZ	46:TD:408:PHE:HD2	2.19	0.49
45:TE:74:VAL:O	45:TE:78:VAL:HG23	2.13	0.49
45:TE:226:ASN:HA	45:TE:229:ARG:HG2	1.95	0.49
46:TF:9:GLY:HA3	46:TF:66:MET:HE3	1.94	0.49
46:TL:118:ASP:O	46:TL:121:ARG:HD3	2.12	0.49
46:TL:293:MET:SD	46:TL:365:VAL:HG11	2.53	0.49
45:TM:33:ASP:OD1	45:TM:85:GLN:NE2	2.43	0.49
45:TM:181:VAL:HG23	45:TM:182:VAL:HG13	1.95	0.49
45:UA:183:GLU:N	45:UA:184:PRO:HD2	2.27	0.49
46:UB:247:ASN:OD1	45:UC:11:GLN:NE2	2.45	0.49
46:UD:41:ASP:OD1	46:UD:42:LEU:HD12	2.12	0.49
45:UG:10:GLY:O	45:UG:14:ILE:HG12	2.13	0.49
45:UK:346:TRP:CD1	46:UL:391:ARG:HG3	2.48	0.49
45:UM:237:SER:O	45:UM:320:ARG:NH2	2.45	0.49
45:VC:223:THR:HG23	45:VC:225:THR:H	1.78	0.49
45:VC:346:TRP:CD1	46:VF:391:ARG:HG3	2.48	0.49
46:VD:148:GLY:O	46:VD:152:ILE:HG12	2.13	0.49
46:VF:285:THR:O	46:VF:288:GLU:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:107:HIS:O	45:VG:107:HIS:ND1	2.45	0.49
45:VG:239:THR:HG23	45:VG:243:ARG:HE	1.78	0.49
45:VK:256:GLN:NE2	45:VK:257:THR:HG23	2.27	0.49
46:WB:190:HIS:HD2	46:WB:411:ALA:HA	1.78	0.49
46:WN:362:LYS:HD3	46:WN:363:MET:HG3	1.94	0.49
45:CE:171:ILE:HG13	45:CE:204:LEU:HB2	1.95	0.49
17:1F:157:LEU:HG	46:HL:337:ASN:ND2	2.27	0.49
22:1M:7:ILE:HD13	45:IC:43:GLY:HA2	1.94	0.49
14:1V:141:ASN:HD22	45:LK:402:ARG:HB3	1.77	0.49
20:2K:301:THR:HG23	46:GL:276:ARG:NH2	2.28	0.49
25:2R:87:LEU:HA	45:MG:85:GLN:HE22	1.76	0.49
25:2R:391:SER:O	46:EH:276:ARG:HG2	2.12	0.49
37:5F:129:ARG:HH21	37:5F:130:PRO:HD2	1.77	0.49
34:5R:32:THR:HA	45:LG:1:MET:HE3	1.95	0.49
34:5R:311:LYS:HG3	34:5R:329:TYR:CZ	2.48	0.49
34:6R:80:ARG:NH2	45:MM:31:GLN:OE1	2.46	0.49
45:AA:387:VAL:HA	45:AA:390:ARG:HG2	1.95	0.49
46:AL:229:VAL:HG12	46:AL:233:MET:HE2	1.93	0.49
45:BE:93:ILE:HD11	45:BE:121:ARG:HG3	1.95	0.49
45:BE:395:PHE:HZ	45:BE:418:PHE:HB3	1.77	0.49
45:BG:79:ARG:HH21	45:BG:92:LEU:HB2	1.77	0.49
46:BH:316:LEU:HB2	46:BH:366:THR:HG22	1.93	0.49
46:BL:103:LYS:HB3	46:BL:401:GLU:OE1	2.13	0.49
46:BL:150:LEU:O	46:BL:154:LYS:HG2	2.12	0.49
45:BM:178:SER:OG	46:BN:347:ASN:HB3	2.13	0.49
45:BM:430:LYS:O	45:BM:434:GLU:OE1	2.29	0.49
46:BN:201:VAL:O	46:BN:202:ILE:HD13	2.13	0.49
45:CA:250:VAL:HG13	45:CA:254:GLU:HB2	1.94	0.49
46:CB:213:ARG:NH2	46:CB:297:LYS:HG3	2.27	0.49
45:CC:223:THR:HG22	45:CC:224:TYR:N	2.28	0.49
46:CD:9:GLY:HA2	46:CD:66:MET:O	2.13	0.49
46:CD:238:CYS:SG	46:CD:239:CYS:N	2.85	0.49
46:CJ:39:ASP:OD1	46:CJ:40:SER:N	2.46	0.49
45:CK:430:LYS:O	45:CK:433:GLU:HG3	2.12	0.49
46:DL:209:ASP:HB3	46:DL:213:ARG:HE	1.77	0.49
45:EA:231:ILE:O	45:EA:235:ILE:HG12	2.12	0.49
45:EC:183:GLU:N	45:EC:184:PRO:HD2	2.28	0.49
45:EC:215:ARG:NH2	45:EC:299:ALA:O	2.40	0.49
45:EC:269:LEU:HB2	45:EC:301:MET:CE	2.43	0.49
46:ED:208:TYR:HE1	46:ED:225:LEU:HD11	1.77	0.49
46:EF:2:ARG:HH12	45:EG:71:GLU:HG2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:100:ASN:HB3	46:EF:103:LYS:HB3	1.93	0.49
46:EH:174:LYS:HB2	46:EH:205:GLU:HG3	1.95	0.49
46:FD:132:GLY:HA3	46:FD:163:ILE:HG22	1.95	0.49
45:FG:221:ARG:NH1	46:FH:322:SER:OG	2.46	0.49
45:FI:332:ILE:HD12	45:FI:351:PHE:CD2	2.48	0.49
46:FJ:201:VAL:HG23	46:FJ:301:CYS:SG	2.52	0.49
45:FK:384:ILE:HG23	45:FK:432:TYR:HE1	1.77	0.49
45:GC:2:ARG:HD3	45:GC:2:ARG:H	1.78	0.49
46:GD:208:TYR:HA	46:GD:211:CYS:SG	2.53	0.49
45:GE:113:GLU:OE1	45:GE:113:GLU:N	2.46	0.49
46:GF:262:ARG:NH1	46:GF:421:GLU:OE2	2.45	0.49
46:GH:55:THR:HG23	46:HH:283:ALA:HA	1.95	0.49
45:GI:212:ILE:HD11	45:GI:300:ASN:HA	1.94	0.49
46:GN:68:LEU:HD12	46:GN:93:GLY:HA3	1.95	0.49
46:HB:199:CYS:O	46:HB:265:PHE:HA	2.12	0.49
45:HC:181:VAL:HG12	46:HD:256:ASN:OD1	2.12	0.49
45:HG:88:HIS:ND1	45:HG:90:GLU:HG3	2.27	0.49
45:HG:430:LYS:O	45:HG:433:GLU:HG3	2.12	0.49
46:HJ:257:LEU:HA	46:HJ:312:THR:HG21	1.95	0.49
46:HL:31:ASP:OD1	46:HL:35:THR:N	2.38	0.49
45:HM:211:ASP:OD1	45:HM:214:ARG:NH1	2.45	0.49
46:HN:61:PRO:HD3	46:HN:84:LEU:HG	1.93	0.49
46:IB:48:ASN:O	46:IB:62:ARG:NH2	2.46	0.49
45:IG:68:LEU:HD21	45:IG:118:CYS:SG	2.52	0.49
45:IG:256:GLN:OE1	45:IG:256:GLN:N	2.44	0.49
46:IL:1:MET:N	46:IL:48:ASN:HD21	2.11	0.49
46:IN:375:GLN:OE1	46:IN:423:GLN:HB3	2.13	0.49
46:JB:161:ASP:OD1	46:JB:162:ARG:HG2	2.12	0.49
46:JF:321:MET:N	46:JF:321:MET:SD	2.86	0.49
45:JG:287:SER:HA	45:JG:373:ARG:HH21	1.77	0.49
46:JH:65:LEU:HD21	46:JH:90:PHE:CE1	2.48	0.49
46:JJ:141:GLY:O	46:JJ:145:SER:HB3	2.12	0.49
45:JK:188:ILE:HG13	45:JK:189:LEU:N	2.28	0.49
46:JL:5:VAL:HG12	46:JL:62:ARG:HD3	1.94	0.49
45:KG:265:ILE:HG22	45:KG:432:TYR:CE1	2.47	0.49
46:KH:65:LEU:HD12	46:KH:90:PHE:CE1	2.48	0.49
46:KJ:163:ILE:HD11	46:KJ:251:ARG:HD2	1.93	0.49
45:LE:238:LEU:HD21	45:LE:255:PHE:HE2	1.76	0.49
45:LE:395:PHE:HZ	45:LE:418:PHE:HB3	1.77	0.49
46:LH:67:ASP:OD1	46:LH:68:LEU:N	2.43	0.49
45:LM:217:LEU:HD12	45:LM:367:ASP:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MG:326:LYS:HZ1	46:MJ:208:TYR:C	2.15	0.49
46:MJ:286:VAL:O	46:MJ:290:THR:HG23	2.12	0.49
45:NA:141:VAL:HG12	45:NA:172:TYR:HA	1.95	0.49
46:NB:162:ARG:HG3	46:NB:163:ILE:N	2.27	0.49
46:NB:221:THR:HG23	46:NB:223:GLY:N	2.27	0.49
46:NF:104:GLY:O	46:NF:147:MET:HB2	2.13	0.49
45:NG:181:VAL:HG13	45:NG:182:VAL:HG13	1.93	0.49
46:NJ:268:ILE:HG22	46:NJ:368:VAL:HG22	1.95	0.49
45:NK:297:GLU:HB3	45:NK:300:ASN:HB2	1.95	0.49
46:NL:350:LYS:HE2	46:NL:350:LYS:HA	1.95	0.49
46:NN:186:THR:HG21	46:NN:412:GLU:OE2	2.13	0.49
45:OC:206:ASN:HB3	45:OC:210:TYR:CE1	2.48	0.49
46:OD:167:PHE:CZ	46:OD:233:MET:HG2	2.48	0.49
46:OF:377:MET:HG3	46:OF:380:ARG:NH2	2.28	0.49
45:OG:395:PHE:HZ	45:OG:418:PHE:HB3	1.78	0.49
45:PA:154:LEU:HD12	45:PA:194:LEU:HG	1.94	0.49
45:PE:251:ASP:N	45:PE:254:GLU:OE1	2.42	0.49
46:PF:239:CYS:SG	46:PF:247:ASN:HA	2.52	0.49
45:PG:21:TRP:CZ2	45:PG:65:ALA:HB2	2.48	0.49
45:PI:183:GLU:N	45:PI:184:PRO:HD2	2.27	0.49
46:PJ:66:MET:HA	46:PJ:91:VAL:HG23	1.94	0.49
46:PJ:238:CYS:SG	46:PJ:239:CYS:N	2.85	0.49
45:PK:306:ASP:OD2	45:PK:309:HIS:N	2.46	0.49
45:QE:32:PRO:HG3	45:QE:83:TYR:HE1	1.78	0.49
45:QE:255:PHE:O	45:QE:259:LEU:HB2	2.13	0.49
46:QF:153:SER:HA	46:QF:195:ASN:HD22	1.78	0.49
46:QF:190:HIS:CE1	46:QF:414:ASN:HD22	2.30	0.49
46:QH:251:ARG:HH21	45:QI:407:TRP:HZ3	1.60	0.49
46:QJ:326:VAL:O	46:QJ:330:MET:HG2	2.13	0.49
45:QK:98:ASP:OD1	45:QK:99:ALA:N	2.46	0.49
45:QM:258:ASN:HD21	46:QN:178:THR:HG23	1.77	0.49
45:RA:171:ILE:HG23	45:RA:204:LEU:O	2.13	0.49
45:RA:231:ILE:O	45:RA:235:ILE:HG12	2.13	0.49
46:RD:2:ARG:HH22	46:RD:247:ASN:HD21	1.59	0.49
45:RE:223:THR:HG23	45:RE:225:THR:H	1.77	0.49
45:RE:413:MET:HG3	45:RE:417:GLU:HG3	1.95	0.49
45:RM:183:GLU:N	45:RM:184:PRO:HD2	2.28	0.49
46:SD:318:ARG:HH21	46:SD:358:PRO:HA	1.77	0.49
45:SE:183:GLU:N	45:SE:184:PRO:HD2	2.28	0.49
46:SJ:86:ARG:HD2	46:TJ:282:ARG:HH21	1.77	0.49
46:SJ:379:LYS:O	46:SJ:383:GLU:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:21:TRP:CZ3	46:SL:61:PRO:HB2	2.48	0.49
46:SL:201:VAL:HG12	46:SL:266:PHE:O	2.12	0.49
45:TA:271:SER:HB2	45:TA:377:MET:HG3	1.93	0.49
46:TD:334:GLN:HA	46:TD:341:PHE:CE1	2.48	0.49
45:TG:101:ASN:HA	45:TG:144:GLY:H	1.76	0.49
45:TG:296:PHE:HE1	45:TG:315:CYS:HG	1.59	0.49
45:TI:252:ILE:HA	45:TI:255:PHE:CE2	2.47	0.49
46:TJ:116:VAL:O	46:TJ:120:VAL:HG23	2.13	0.49
45:TK:322:ASP:OD1	45:TK:373:ARG:NH1	2.46	0.49
45:TK:326:LYS:HG2	46:TL:208:TYR:CE1	2.48	0.49
46:UB:145:SER:HB2	46:UB:188:SER:HB3	1.95	0.49
46:UB:214:THR:HG23	46:UB:297:LYS:HZ2	1.78	0.49
45:UC:225:THR:O	45:UC:229:ARG:HG3	2.13	0.49
46:UD:325:GLU:HA	46:UD:328:GLU:HG2	1.95	0.49
45:UE:223:THR:HG23	45:UE:225:THR:H	1.77	0.49
45:UG:205:ASP:OD2	45:UG:303:ALA:HA	2.12	0.49
45:UI:172:TYR:HD2	45:UI:173:PRO:HD2	1.76	0.49
46:UL:200:MET:HE1	46:UL:268:ILE:H	1.77	0.49
45:VA:2:ARG:HH12	46:VD:70:PRO:HD2	1.77	0.49
45:VA:242:LEU:HD11	45:VA:252:ILE:HG12	1.94	0.49
45:VE:21:TRP:CZ2	45:VE:65:ALA:HB2	2.48	0.49
46:VF:12:CYS:O	46:VF:16:ILE:HG12	2.13	0.49
46:VJ:222:TYR:HD1	49:VJ:501:GDP:C6	2.31	0.49
46:VJ:406:MET:SD	46:VJ:407:GLU:N	2.86	0.49
45:VK:69:ASP:OD1	45:VK:70:LEU:N	2.42	0.49
45:WA:7:ILE:HB	45:WA:137:VAL:HG12	1.94	0.49
45:WA:174:SER:HB2	45:WA:177:VAL:O	2.12	0.49
45:WA:331:SER:O	45:WA:335:ILE:HG12	2.13	0.49
46:WF:211:CYS:SG	46:WF:220:PRO:HB3	2.53	0.49
45:WI:387:VAL:O	45:WI:390:ARG:HG2	2.13	0.49
45:WK:67:PHE:HE1	45:WK:87:PHE:CE2	2.30	0.49
46:WL:201:VAL:HG22	46:WL:266:PHE:O	2.13	0.49
45:DC:210:TYR:CE1	45:DC:227:LEU:HD11	2.48	0.49
3:1C:83:SER:HB2	46:EL:355:ASP:HB3	1.95	0.49
8:1H:60:ARG:CZ	46:HN:33:THR:HG23	2.43	0.49
12:1T:225:SER:HB2	45:MC:264:ARG:HD3	1.95	0.49
26:1W:239:ARG:HG2	46:LB:279:GLN:NE2	2.22	0.49
1:2A:67:PRO:HG3	46:MJ:53:GLU:HG3	1.95	0.49
1:2A:152:LYS:NZ	34:5R:78:ILE:O	2.38	0.49
30:2H:218:HIS:O	45:MC:84:ARG:NH1	2.44	0.49
31:3I:285:ARG:HH22	45:FG:55:GLU:HG2	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:4R:301:PRO:HD2	46:CF:74:ASP:OD1	2.12	0.49
35:4S:64:LEU:HA	35:4S:67:LYS:HZ2	1.77	0.49
36:5A:54:ARG:NH1	36:5A:55:ALA:O	2.46	0.49
36:5D:27:LYS:HZ2	36:5D:30:LYS:HG2	1.78	0.49
37:5F:129:ARG:NE	37:5F:130:PRO:HD2	2.28	0.49
40:6G:101:GLU:O	40:6G:105:LYS:HG2	2.12	0.49
44:8R:177:ALA:HA	44:8R:180:TYR:HD2	1.78	0.49
45:AA:419:SER:O	45:AA:422:ARG:N	2.45	0.49
45:AE:55:GLU:OE2	45:AE:61:HIS:NE2	2.46	0.49
46:AJ:36:TYR:O	46:AJ:37:HIS:ND1	2.43	0.49
46:AL:1:MET:SD	46:AL:2:ARG:N	2.86	0.49
46:AN:229:VAL:HG12	46:AN:233:MET:HE1	1.95	0.49
45:BA:88:HIS:ND1	45:BA:90:GLU:OE1	2.44	0.49
45:BA:280:LYS:HE3	45:BA:284:GLU:OE1	2.13	0.49
45:BA:420:GLU:O	45:BA:423:GLU:HG3	2.12	0.49
45:BI:152:LEU:O	45:BI:155:GLU:HG3	2.13	0.49
46:BJ:233:MET:O	46:BJ:236:VAL:HG12	2.12	0.49
45:CA:136:LEU:HD21	45:CA:138:PHE:CE1	2.48	0.49
45:CC:211:ASP:HB3	45:CC:215:ARG:NH2	2.28	0.49
45:CI:328:VAL:O	45:CI:332:ILE:HG12	2.13	0.49
46:CN:21:TRP:CZ3	46:CN:61:PRO:HB3	2.47	0.49
46:CN:100:ASN:HD22	46:CN:103:LYS:HB2	1.77	0.49
45:DA:324:VAL:HG12	45:DA:326:LYS:H	1.77	0.49
46:DD:207:LEU:HB3	46:DD:225:LEU:HD22	1.94	0.49
46:DF:394:PHE:HD1	46:DF:397:TRP:HZ3	1.60	0.49
45:DI:326:LYS:HG3	45:DI:327:ASP:N	2.27	0.49
46:DJ:10:GLY:O	46:DJ:14:ASN:ND2	2.46	0.49
46:DJ:258:ILE:HD11	45:DK:407:TRP:HZ2	1.77	0.49
46:DJ:325:GLU:H	45:DK:221:ARG:NH1	2.00	0.49
46:DL:100:ASN:HB3	46:DL:103:LYS:HB3	1.94	0.49
45:EC:135:PHE:HB2	45:EC:166:LYS:HG2	1.95	0.49
45:EE:82:THR:HG23	45:EE:83:TYR:CD1	2.48	0.49
45:EE:109:THR:HG22	45:EE:110:ILE:HG23	1.95	0.49
46:EF:360:GLY:O	46:EF:361:LEU:HD22	2.13	0.49
46:EJ:319:GLY:HA3	46:EJ:362:LYS:O	2.13	0.49
45:EM:174:SER:HB2	45:EM:177:VAL:O	2.13	0.49
45:FA:64:ARG:NH1	45:FA:129:CYS:SG	2.86	0.49
45:FA:174:SER:HB2	45:FA:177:VAL:HB	1.93	0.49
46:FB:87:PRO:HA	46:FB:90:PHE:HD2	1.77	0.49
46:FB:286:VAL:HG11	46:FB:326:VAL:HG22	1.95	0.49
46:FB:318:ARG:HB3	46:FB:357:PRO:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FK:277:SER:OG	45:FK:280:LYS:NZ	2.45	0.49
46:FN:222:TYR:O	46:FN:226:ASN:ND2	2.35	0.49
45:GA:135:PHE:HB2	45:GA:166:LYS:HG2	1.95	0.49
46:GB:262:ARG:NH1	46:GB:421:GLU:OE1	2.46	0.49
45:GC:326:LYS:HD2	46:GF:220:PRO:HD2	1.94	0.49
46:GD:390:ARG:O	46:GD:392:LYS:NZ	2.46	0.49
46:GH:41:ASP:OD1	46:GH:41:ASP:N	2.45	0.49
45:GI:194:LEU:O	45:GI:198:THR:HG22	2.13	0.49
46:GJ:293:MET:SD	46:GJ:365:VAL:HG11	2.53	0.49
46:HB:372:THR:HA	46:HB:422:TYR:HE2	1.78	0.49
45:HE:326:LYS:HZ2	46:HH:220:PRO:HD2	1.78	0.49
45:HG:107:HIS:ND1	45:HG:107:HIS:O	2.46	0.49
46:HH:167:PHE:CE2	46:HH:233:MET:HG3	2.48	0.49
45:HI:296:PHE:CE2	45:HI:335:ILE:HG21	2.48	0.49
46:HJ:68:LEU:HD21	46:HJ:147:MET:HE3	1.93	0.49
45:HK:237:SER:HA	45:HK:320:ARG:HH11	1.77	0.49
46:HL:334:GLN:HE22	46:HL:347:ASN:H	1.61	0.49
46:IB:196:ALA:HB3	46:IB:264:HIS:CE1	2.48	0.49
45:IC:187:SER:O	45:IC:191:THR:HG23	2.13	0.49
45:IK:259:LEU:O	45:IK:380:ASN:ND2	2.45	0.49
45:IM:204:LEU:HD22	45:IM:231:ILE:HD12	1.95	0.49
46:JB:221:THR:HG23	46:JB:223:GLY:H	1.76	0.49
46:JD:204:ASN:O	46:JD:208:TYR:HD2	1.95	0.49
46:JF:415:MET:O	46:JF:419:VAL:HG23	2.13	0.49
45:JG:377:MET:SD	45:JG:379:SER:HB3	2.52	0.49
46:JH:64:ILE:HA	46:JH:89:ASN:HB3	1.94	0.49
46:JH:107:THR:OG1	46:JH:108:GLU:OE1	2.31	0.49
45:JK:319:TYR:CE2	45:JK:328:VAL:HG22	2.48	0.49
46:JN:285:THR:HB	46:JN:287:PRO:HD2	1.94	0.49
46:KB:86:ARG:NH1	46:KB:87:PRO:HD2	2.28	0.49
46:LB:253:LEU:O	46:LB:257:LEU:HB2	2.13	0.49
45:LC:140:SER:OG	47:LC:501:GTP:O2B	2.30	0.49
45:LI:221:ARG:HG3	45:LI:221:ARG:HH11	1.78	0.49
45:MC:414:GLU:HB3	45:MC:417:GLU:HG2	1.94	0.49
46:MD:7:ILE:HD13	46:MD:64:ILE:HB	1.95	0.49
46:MD:213:ARG:NH2	46:MD:297:LYS:HG3	2.28	0.49
46:MD:289:LEU:HD13	46:MD:365:VAL:HG23	1.93	0.49
45:ME:171:ILE:HG13	45:ME:204:LEU:O	2.13	0.49
45:MI:104:ALA:HB2	45:MI:413:MET:HE2	1.95	0.49
46:MJ:139:LEU:HD22	46:MJ:170:VAL:HG12	1.94	0.49
46:NB:20:PHE:HA	46:NB:230:SER:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NE:213:CYS:HB2	45:NE:217:LEU:HD12	1.95	0.49
45:NE:372:MET:N	45:NE:372:MET:SD	2.86	0.49
46:NF:167:PHE:CZ	46:NF:233:MET:HG2	2.48	0.49
45:NI:223:THR:HG22	45:NI:224:TYR:N	2.25	0.49
46:OD:324:LYS:HD3	46:OD:327:ASP:HB2	1.94	0.49
46:OH:156:ARG:NH2	46:OH:197:ASP:OD1	2.46	0.49
45:OI:96:LYS:HD2	45:OI:96:LYS:N	2.27	0.49
45:OK:332:ILE:HD12	45:OK:351:PHE:CD2	2.48	0.49
45:PA:99:ALA:O	46:PB:251:ARG:NH2	2.46	0.49
45:PC:183:GLU:N	45:PC:184:PRO:HD2	2.27	0.49
46:PD:201:VAL:HG13	46:PD:301:CYS:SG	2.52	0.49
45:PG:100:ALA:HA	46:PH:252:LYS:HG2	1.95	0.49
45:PG:175:PRO:HG3	45:PG:390:ARG:NH1	2.28	0.49
45:PK:101:ASN:HD22	46:PL:256:ASN:HD21	1.61	0.49
45:PM:190:SER:O	45:PM:194:LEU:HD23	2.12	0.49
46:PN:58:ARG:HH21	46:PN:83:GLN:HE22	1.61	0.49
46:QB:183:TYR:OH	46:QB:388:MET:HG3	2.13	0.49
45:QC:88:HIS:CE1	45:QC:90:GLU:HB3	2.48	0.49
45:QE:262:TYR:HD2	45:QE:265:ILE:HD12	1.76	0.49
46:QF:344:TRP:CD2	45:QG:401:LYS:HE3	2.48	0.49
45:QI:296:PHE:CD2	45:QI:335:ILE:HG12	2.48	0.49
45:QK:21:TRP:CZ2	45:QK:65:ALA:HB2	2.47	0.49
46:QL:102:ALA:H	46:QL:398:TYR:HE2	1.61	0.49
46:RB:262:ARG:CZ	46:RB:418:LEU:HD12	2.42	0.49
45:RC:8:HIS:CD2	45:RC:17:GLY:HA3	2.48	0.49
45:RC:25:CYS:HA	45:RC:30:ILE:HD13	1.95	0.49
45:RE:239:THR:HG23	45:RE:243:ARG:HH21	1.78	0.49
45:RG:288:VAL:HA	45:RG:291:ILE:HG12	1.94	0.49
46:RH:52:ASN:OD1	46:RH:62:ARG:NH2	2.46	0.49
46:RH:254:ALA:O	46:RH:258:ILE:HG12	2.12	0.49
45:RK:171:ILE:HG22	45:RK:204:LEU:HB2	1.94	0.49
46:RL:136:THR:HA	46:RL:167:PHE:HB2	1.95	0.49
46:RL:322:SER:HB2	45:RM:222:PRO:O	2.13	0.49
46:SD:45:GLU:HG3	46:SD:46:ARG:HG2	1.93	0.49
46:SD:268:ILE:HG13	46:SD:300:MET:HE2	1.93	0.49
45:SE:66:VAL:HG11	45:SE:122:ILE:HD11	1.94	0.49
46:SH:254:ALA:O	46:SH:258:ILE:HG12	2.13	0.49
45:SI:90:GLU:HG3	45:SI:121:ARG:NH2	2.27	0.49
45:SI:135:PHE:HE2	45:SI:164:LYS:HG2	1.78	0.49
46:SJ:201:VAL:HG13	46:SJ:301:CYS:SG	2.52	0.49
45:SK:319:TYR:CE1	45:SK:328:VAL:HG22	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TA:212:ILE:HD11	45:TA:300:ASN:HA	1.94	0.49
45:TC:226:ASN:O	45:TC:229:ARG:HG2	2.13	0.49
46:TH:86:ARG:HG3	46:TH:88:ASP:OD1	2.13	0.49
45:TI:286:LEU:O	45:TI:373:ARG:NH1	2.46	0.49
45:TK:399:TYR:O	45:TK:402:ARG:NH1	2.46	0.49
46:TL:318:ARG:HB3	46:TL:357:PRO:HA	1.95	0.49
45:TM:118:CYS:O	45:TM:122:ILE:HG12	2.13	0.49
46:TN:16:ILE:HD12	46:TN:229:VAL:HG11	1.95	0.49
46:UB:274:THR:HB	46:UB:282:ARG:HH11	1.78	0.49
46:UH:310:TYR:CD1	46:UH:371:SER:HB2	2.48	0.49
46:UJ:3:GLU:HA	46:UJ:49:VAL:HG23	1.94	0.49
46:UL:41:ASP:OD1	46:UL:42:LEU:N	2.46	0.49
46:UL:275:SER:O	46:UL:279:GLN:NE2	2.46	0.49
45:UM:344:VAL:HG21	45:UM:346:TRP:CZ2	2.48	0.49
46:VB:31:ASP:OD2	46:VB:37:HIS:ND1	2.46	0.49
46:VB:211:CYS:HA	46:VB:215:LEU:HD12	1.94	0.49
45:VC:88:HIS:CD2	45:WC:280:LYS:HE2	2.47	0.49
45:VC:118:CYS:O	45:VC:122:ILE:HG12	2.12	0.49
47:VC:501:GTP:O1G	46:VD:252:LYS:NZ	2.36	0.49
46:VD:105:HIS:CE1	46:VD:150:LEU:HD12	2.46	0.49
46:VF:332:ASN:O	46:VF:336:LYS:HG2	2.13	0.49
45:VI:206:ASN:HB3	45:VI:210:TYR:CE2	2.45	0.49
45:VK:3:GLU:HG2	45:VK:64:ARG:NH2	2.28	0.49
46:WD:201:VAL:HG22	46:WD:266:PHE:O	2.13	0.49
45:WE:184:PRO:O	45:WE:188:ILE:HG12	2.12	0.49
46:WF:318:ARG:HB3	46:WF:357:PRO:HA	1.95	0.49
45:WG:208:ALA:HA	45:WG:304:LYS:HZ2	1.77	0.49
46:WH:12:CYS:O	46:WH:16:ILE:HG12	2.12	0.49
46:WH:189:VAL:HA	46:WH:192:LEU:HB2	1.93	0.49
46:WH:237:THR:HG23	46:WH:241:ARG:HE	1.78	0.49
45:WM:175:PRO:O	45:WM:390:ARG:NH1	2.44	0.49
45:CE:118:CYS:O	45:CE:122:ILE:HG12	2.13	0.49
2:OB:288:ILE:HG22	46:KL:279:GLN:HB3	1.95	0.49
5:1E:118:ARG:HH22	34:4R:537:LYS:NZ	2.11	0.49
5:1E:121:ARG:O	34:4R:579:ASN:ND2	2.25	0.49
18:1I:189:PHE:CE2	46:KH:70:PRO:HG2	2.48	0.49
18:1I:189:PHE:HE2	46:KH:70:PRO:HG2	1.78	0.49
19:1J:80:LYS:NZ	45:IC:373:ARG:HB2	2.27	0.49
10:1Q:38:THR:H	35:4S:208:GLN:NE2	2.10	0.49
25:1R:291:GLY:HA3	46:DD:276:ARG:HB3	1.95	0.49
25:2R:152:LEU:HA	46:AJ:78:ALA:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:152:LYS:HE2	34:6R:75:ASN:O	2.11	0.49
11:3S:111:LYS:HZ1	46:MN:158:GLU:HB2	1.76	0.49
36:5C:131:ARG:O	36:5C:132:SER:OG	2.26	0.49
37:5E:164:LYS:HG3	37:5E:165:PRO:HD3	1.95	0.49
37:5G:9:TYR:CG	37:5G:10:PRO:HD3	2.48	0.49
37:5G:44:ARG:HG2	37:5G:45:PRO:O	2.12	0.49
37:5G:108:LYS:HA	37:5G:108:LYS:HE2	1.93	0.49
34:5R:463:SER:C	46:FJ:276:ARG:HH12	2.16	0.49
40:6G:93:LYS:HZ3	45:UK:114:ILE:HA	1.78	0.49
34:6R:343:TYR:O	46:CN:32:PRO:HG2	2.13	0.49
45:AC:88:HIS:O	45:AC:91:GLN:HG2	2.13	0.49
45:AC:195:LEU:HD21	45:AC:264:ARG:HD2	1.95	0.49
46:AH:334:GLN:CD	46:AH:349:ILE:HD11	2.34	0.49
45:AM:319:TYR:CD2	45:AM:375:VAL:HG22	2.48	0.49
46:AN:372:THR:HA	46:AN:422:TYR:CE1	2.47	0.49
45:BE:3:GLU:OE2	45:BE:131:GLY:N	2.46	0.49
45:BE:183:GLU:N	45:BE:184:PRO:HD2	2.28	0.49
46:BF:293:MET:HG3	46:BF:367:PHE:HB2	1.95	0.49
45:BM:214:ARG:NE	45:BM:220:GLU:OE2	2.46	0.49
46:CF:278:SER:HA	46:CF:281:TYR:CD2	2.48	0.49
45:CI:324:VAL:HG11	45:CI:326:LYS:HZ2	1.78	0.49
45:CK:21:TRP:CZ3	45:CK:63:PRO:HB3	2.48	0.49
45:CK:175:PRO:HB3	45:CK:390:ARG:CZ	2.43	0.49
45:CM:152:LEU:O	45:CM:156:ARG:HG2	2.12	0.49
46:DB:2:ARG:HH21	46:DB:240:LEU:HG	1.78	0.49
46:DB:313:ALA:HB1	46:DB:367:PHE:HE1	1.77	0.49
45:DI:201:ALA:O	45:DI:268:MET:HB2	2.13	0.49
45:DM:322:ASP:OD1	45:DM:373:ARG:NH1	2.41	0.49
46:DN:289:LEU:HD13	46:DN:365:VAL:HG23	1.95	0.49
45:EC:294:SER:HA	45:EC:297:GLU:OE1	2.13	0.49
46:EH:289:LEU:HD13	46:EH:365:VAL:HG23	1.95	0.49
46:EH:325:GLU:OE2	45:EI:221:ARG:HG2	2.12	0.49
45:EI:338:LYS:HZ2	45:EI:340:THR:H	1.61	0.49
45:EM:69:ASP:O	45:EM:94:SER:HA	2.12	0.49
46:FF:316:LEU:HG	46:FF:352:SER:HB3	1.95	0.49
46:FH:123:GLU:OE2	46:FH:123:GLU:HA	2.13	0.49
45:FI:88:HIS:CE1	45:FI:90:GLU:HG2	2.48	0.49
45:FK:248:LEU:HD12	45:FK:355:ILE:HD12	1.95	0.49
46:FL:287:PRO:HG3	46:FL:329:GLN:NE2	2.27	0.49
46:FN:52:ASN:OD1	46:FN:62:ARG:NH2	2.46	0.49
46:GD:108:GLU:O	46:GD:111:GLU:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GE:177:VAL:HG13	46:GF:327:ASP:OD2	2.13	0.49
46:GF:267:MET:HB2	46:GF:299:MET:SD	2.53	0.49
46:GL:72:THR:O	46:GL:75:SER:OG	2.25	0.49
45:GM:183:GLU:N	45:GM:184:PRO:HD2	2.28	0.49
45:HA:325:PRO:O	45:HA:329:ASN:ND2	2.46	0.49
45:HE:183:GLU:N	45:HE:184:PRO:HD2	2.28	0.49
45:HG:268:MET:HG3	45:HG:380:ASN:HB2	1.95	0.49
46:HJ:109:GLY:HA2	46:HJ:147:MET:HE2	1.94	0.49
45:HK:387:VAL:HA	45:HK:390:ARG:HG2	1.94	0.49
45:IA:14:ILE:HD11	45:IA:69:ASP:HB2	1.95	0.49
45:IG:17:GLY:HA2	45:IG:20:CYS:SG	2.53	0.49
46:IJ:107:THR:HG1	46:IJ:108:GLU:CD	2.15	0.49
46:IJ:247:ASN:ND2	46:IJ:247:ASN:N	2.61	0.49
45:JC:196:GLU:N	45:JC:196:GLU:OE1	2.46	0.49
46:JD:203:ASP:OD2	46:JD:302:ALA:N	2.28	0.49
45:JE:349:THR:HG23	46:JH:179:VAL:HA	1.93	0.49
45:JM:340:THR:HG23	45:JM:341:ILE:HD12	1.94	0.49
46:JN:50:TYR:HE2	46:JN:241:ARG:HD3	1.78	0.49
45:KA:88:HIS:CD2	45:KA:90:GLU:HG2	2.48	0.49
45:KE:2:ARG:HD3	45:KE:2:ARG:H	1.78	0.49
45:KG:72:PRO:HD2	46:KH:2:ARG:HH12	1.78	0.49
46:KL:156:ARG:NH2	46:KL:160:PRO:O	2.46	0.49
46:LD:6:HIS:O	46:LD:63:ALA:HA	2.11	0.49
46:LF:186:THR:HG23	46:LF:187:LEU:HD12	1.94	0.49
45:LG:183:GLU:N	45:LG:184:PRO:HD2	2.28	0.49
45:LI:133:GLN:HG3	45:LI:242:LEU:HD11	1.94	0.49
45:LK:52:PHE:HZ	45:LK:239:THR:HG21	1.78	0.49
45:LK:399:TYR:OH	45:LK:415:GLU:OE2	2.29	0.49
45:MA:109:THR:HG22	45:MA:110:ILE:HG23	1.95	0.49
45:MI:224:TYR:HE2	46:MJ:246:LEU:HD11	1.78	0.49
46:MJ:248:SER:HA	46:MJ:252:LYS:HD3	1.93	0.49
45:NE:288:VAL:HA	45:NE:291:ILE:HG12	1.94	0.49
46:NH:372:THR:HA	46:NH:422:TYR:CE2	2.48	0.49
45:NK:9:VAL:HG22	45:NK:146:GLY:HA2	1.94	0.49
45:NK:121:ARG:NE	45:NK:121:ARG:HA	2.27	0.49
46:NL:316:LEU:HD13	46:NL:352:SER:HB2	1.95	0.49
46:NN:14:ASN:HD22	46:NN:65:LEU:HD23	1.77	0.49
45:OE:88:HIS:ND1	45:OE:90:GLU:HG3	2.27	0.49
45:OE:430:LYS:NZ	45:OE:433:GLU:OE2	2.31	0.49
45:OG:345:ASP:OD2	45:OG:346:TRP:N	2.46	0.49
46:OH:275:SER:O	46:OH:279:GLN:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OK:328:VAL:O	45:OK:332:ILE:HG12	2.12	0.49
46:ON:20:PHE:HZ	46:ON:50:TYR:HE1	1.61	0.49
45:PA:70:LEU:HD11	45:PA:99:ALA:H	1.78	0.49
45:PA:210:TYR:HB3	46:PB:324:LYS:HD2	1.95	0.49
46:PF:73:MET:HA	46:PF:76:VAL:HG12	1.95	0.49
45:PG:320:ARG:NH2	45:PG:359:PRO:O	2.45	0.49
45:PI:254:GLU:HB3	46:PL:98:GLY:HA2	1.95	0.49
45:QA:223:THR:HG23	45:QA:225:THR:HG22	1.94	0.49
45:QA:256:GLN:HB2	45:QA:260:VAL:HB	1.95	0.49
45:QA:329:ASN:HA	45:QA:332:ILE:HG12	1.94	0.49
46:QB:12:CYS:O	46:QB:16:ILE:HG12	2.13	0.49
46:QB:296:ALA:O	46:QB:299:MET:HG2	2.13	0.49
45:QE:69:ASP:HB3	45:QE:75:ILE:HD11	1.95	0.49
46:QF:130:LEU:HD23	46:QF:162:ARG:HG3	1.94	0.49
46:QH:69:GLU:CD	46:QH:71:GLY:H	2.16	0.49
45:RI:434:GLU:O	45:RI:437:ILE:HG22	2.13	0.49
46:RL:221:THR:HG23	46:RL:224:ASP:H	1.78	0.49
45:SC:28:HIS:CE1	45:SC:49:PHE:HA	2.48	0.49
45:SC:153:LEU:O	45:SC:157:LEU:HD23	2.13	0.49
45:SC:260:VAL:HB	46:SD:397:TRP:CZ2	2.41	0.49
46:SF:8:GLN:HE21	46:SF:65:LEU:HG	1.77	0.49
46:SF:138:SER:HA	46:SF:169:VAL:HB	1.95	0.49
46:SH:69:GLU:CD	46:SH:71:GLY:H	2.16	0.49
46:SJ:317:PHE:CD1	46:SJ:365:VAL:HG22	2.48	0.49
45:SK:76:ASP:HA	45:SK:79:ARG:HG2	1.95	0.49
45:SK:280:LYS:HA	45:SK:283:HIS:ND1	2.27	0.49
46:SL:54:ALA:HA	46:TL:283:ALA:HB2	1.95	0.49
45:TM:184:PRO:O	45:TM:188:ILE:HG12	2.13	0.49
46:UB:45:GLU:HG2	46:UB:46:ARG:HG2	1.95	0.49
45:UC:2:ARG:HA	45:UC:133:GLN:HE22	1.77	0.49
46:UD:161:ASP:OD1	46:UD:162:ARG:HG2	2.13	0.49
45:UG:22:GLU:HG3	45:UG:83:TYR:CE2	2.48	0.49
46:UH:267:MET:HB3	46:UH:299:MET:CE	2.41	0.49
46:UJ:58:ARG:HH22	46:UJ:84:LEU:HA	1.78	0.49
46:UJ:70:PRO:HA	46:UJ:73:MET:SD	2.52	0.49
46:UJ:316:LEU:HD13	46:UJ:352:SER:HB2	1.95	0.49
46:UL:9:GLY:HA3	46:UL:66:MET:SD	2.52	0.49
45:VA:141:VAL:HG11	45:VA:172:TYR:CD1	2.47	0.49
45:VC:183:GLU:N	45:VC:184:PRO:HD2	2.28	0.49
46:VF:215:LEU:HD21	46:VF:273:LEU:HD12	1.95	0.49
45:VI:75:ILE:HG23	45:VI:92:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VJ:173:PRO:HD3	46:VJ:380:ARG:CZ	2.43	0.49
46:VL:237:THR:HG23	46:VL:241:ARG:HE	1.78	0.49
46:VN:108:GLU:OE2	46:VN:112:LEU:HB2	2.13	0.49
46:VN:175:VAL:HG22	46:VN:205:GLU:HB3	1.95	0.49
46:WD:11:GLN:NE2	49:WD:501:GDP:O3B	2.40	0.49
46:WD:167:PHE:CZ	46:WD:200:MET:HG3	2.48	0.49
46:WN:100:ASN:HD22	46:WN:103:LYS:HB2	1.77	0.49
45:CE:319:TYR:HE2	45:CE:328:VAL:HG22	1.78	0.49
15:0X:81:ARG:HB3	46:MB:276:ARG:HH12	1.78	0.48
7:1G:172:TYR:CE2	45:KA:1:MET:HA	2.48	0.48
19:1J:243:HIS:C	45:II:221:ARG:HD2	2.33	0.48
19:1J:302:PHE:CE1	45:IK:280:LYS:HE2	2.47	0.48
21:1L:753:ARG:HB2	46:BD:362:LYS:NZ	2.27	0.48
21:2L:538:ARG:NH2	46:AN:53:GLU:OE1	2.41	0.48
15:3X:45:GLN:NE2	45:MM:282:TYR:HB3	2.27	0.48
36:5C:103:HIS:ND1	36:5C:104:PRO:HD2	2.28	0.48
36:5D:87:ARG:HH22	45:NM:363:VAL:HG22	1.78	0.48
37:5G:28:SER:OG	37:5G:29:LYS:N	2.46	0.48
34:5R:87:LYS:HE3	34:5R:88:TYR:CZ	2.48	0.48
34:7R:334:LEU:O	34:7R:360:TYR:OH	2.28	0.48
44:8R:113:TYR:OH	45:PI:372:MET:HG3	2.13	0.48
45:AA:221:ARG:CZ	46:AB:322:SER:HB3	2.43	0.48
46:AB:342:VAL:HG13	46:AB:345:ILE:HG22	1.95	0.48
45:AI:256:GLN:HB3	46:AL:397:TRP:CZ3	2.48	0.48
46:BD:324:LYS:HG3	46:BD:325:GLU:N	2.28	0.48
46:BD:334:GLN:NE2	46:BD:348:ASN:OD1	2.46	0.48
45:BE:5:ILE:HD12	45:BE:135:PHE:HE1	1.78	0.48
45:BI:56:THR:HG23	45:BI:58:ALA:H	1.78	0.48
46:BJ:237:THR:HG23	46:BJ:241:ARG:HH21	1.76	0.48
46:BL:293:MET:HE2	46:BL:367:PHE:HB2	1.95	0.48
46:CB:217:LEU:HA	46:CB:276:ARG:HH22	1.78	0.48
45:CC:56:THR:HG23	45:CC:58:ALA:H	1.77	0.48
45:CC:175:PRO:HA	45:CC:390:ARG:NH1	2.28	0.48
46:CF:11:GLN:NE2	49:CF:501:GDP:O1A	2.46	0.48
45:CG:356:ASN:OD1	45:CG:357:TYR:N	2.46	0.48
46:CH:68:LEU:HD23	46:CH:143:THR:OG1	2.13	0.48
46:CH:309:ARG:NH2	46:CH:426:GLN:O	2.44	0.48
46:CJ:201:VAL:HG22	46:CJ:266:PHE:O	2.13	0.48
46:CJ:255:VAL:HG11	45:CK:100:ALA:O	2.12	0.48
45:CM:205:ASP:HB2	45:CM:304:LYS:NZ	2.28	0.48
46:DF:304:ASP:OD2	46:DF:306:ARG:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DJ:287:PRO:HD3	46:DJ:325:GLU:OE1	2.13	0.48
45:DK:268:MET:CE	45:DK:378:ILE:HG22	2.43	0.48
46:DL:318:ARG:HH11	46:DL:358:PRO:HG3	1.78	0.48
46:ED:99:ASN:HA	46:ED:142:GLY:H	1.78	0.48
45:EE:271:SER:OG	45:EE:301:MET:SD	2.68	0.48
45:EE:277:SER:O	45:EE:281:ALA:N	2.46	0.48
45:EI:288:VAL:HG11	45:EI:327:ASP:HB3	1.94	0.48
46:EJ:3:GLU:HG3	46:EJ:62:ARG:NH1	2.28	0.48
46:EL:58:ARG:HD2	46:FL:280:GLN:HE22	1.77	0.48
45:FA:194:LEU:O	45:FA:198:THR:HG22	2.13	0.48
46:FD:178:THR:HB	46:FD:181:GLU:HG3	1.94	0.48
46:FF:290:THR:HA	46:FF:293:MET:HG2	1.95	0.48
45:GI:56:THR:HG23	45:GI:58:ALA:H	1.78	0.48
46:HD:317:PHE:HB2	46:HD:353:ILE:HD13	1.95	0.48
45:HE:98:ASP:OD2	45:HE:99:ALA:N	2.46	0.48
45:HE:326:LYS:NZ	46:HH:219:THR:HA	2.28	0.48
45:HI:434:GLU:O	45:HI:437:ILE:HG12	2.13	0.48
45:HK:103:PHE:H	45:HK:408:TYR:HE2	1.61	0.48
45:HK:141:VAL:HG11	45:HK:172:TYR:CD1	2.48	0.48
46:HN:289:LEU:O	46:HN:293:MET:HG2	2.13	0.48
45:IA:88:HIS:HE1	45:IA:90:GLU:HB3	1.77	0.48
46:IB:88:ASP:OD2	46:IB:89:ASN:N	2.46	0.48
46:ID:317:PHE:CD1	46:ID:365:VAL:HG22	2.47	0.48
46:IF:274:THR:HB	46:IF:282:ARG:HH11	1.77	0.48
45:II:223:THR:HG23	45:II:225:THR:H	1.78	0.48
46:IJ:53:GLU:HG2	46:IJ:59:TYR:CE2	2.47	0.48
45:IK:346:TRP:CD1	46:IN:391:ARG:HG3	2.48	0.48
45:IM:207:GLU:H	45:IM:304:LYS:HZ1	1.60	0.48
45:JE:258:ASN:HD21	46:JH:179:VAL:H	1.61	0.48
45:JE:272:TYR:HD2	45:JE:275:ILE:HD11	1.78	0.48
46:JF:285:THR:HB	46:JF:287:PRO:HD2	1.95	0.48
45:JG:96:LYS:HE2	45:JG:96:LYS:HA	1.95	0.48
45:JG:155:GLU:HA	45:JG:197:HIS:ND1	2.29	0.48
45:JK:119:LEU:O	45:JK:123:ARG:HG2	2.13	0.48
45:KC:69:ASP:OD2	45:KC:71:GLU:HG2	2.12	0.48
46:KD:10:GLY:O	46:KD:14:ASN:ND2	2.45	0.48
46:KD:380:ARG:O	46:KD:383:GLU:HG3	2.13	0.48
45:KK:49:PHE:CE1	45:KK:55:GLU:HB2	2.43	0.48
45:KK:68:LEU:HD13	45:KK:93:ILE:HB	1.94	0.48
46:LB:260:PHE:HB2	46:LB:263:LEU:HD13	1.94	0.48
45:LC:195:LEU:HD21	45:LC:264:ARG:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LD:150:LEU:O	46:LD:154:LYS:HG2	2.13	0.48
45:LE:21:TRP:CH2	45:LE:63:PRO:HB3	2.47	0.48
45:LE:155:GLU:OE1	45:LE:197:HIS:NE2	2.46	0.48
45:LE:409:VAL:HG22	45:LE:415:GLU:HB3	1.95	0.48
46:LJ:325:GLU:HA	46:LJ:328:GLU:HG3	1.95	0.48
46:MB:52:ASN:OD1	46:MB:62:ARG:NH2	2.46	0.48
45:MC:205:ASP:OD1	45:MC:303:ALA:HA	2.13	0.48
45:MK:47:ASP:HA	45:MK:49:PHE:CE2	2.48	0.48
45:MK:209:ILE:HG21	45:MK:227:LEU:HD13	1.95	0.48
46:MN:321:MET:N	46:MN:321:MET:SD	2.87	0.48
46:MN:375:GLN:OE1	46:MN:423:GLN:HB3	2.13	0.48
45:NC:221:ARG:HA	46:ND:324:LYS:HZ1	1.78	0.48
45:NC:384:ILE:HD11	45:NC:432:TYR:OH	2.13	0.48
46:NH:6:HIS:O	46:NH:63:ALA:HA	2.13	0.48
45:NM:223:THR:HG22	45:NM:224:TYR:H	1.77	0.48
46:OB:20:PHE:O	46:OB:24:ILE:HG12	2.12	0.48
46:OB:380:ARG:O	46:OB:383:GLU:HG3	2.12	0.48
46:OD:86:ARG:HB2	46:OD:89:ASN:OD1	2.13	0.48
45:OE:183:GLU:N	45:OE:184:PRO:HD2	2.27	0.48
46:OF:117:LEU:HA	46:OF:120:VAL:HG12	1.94	0.48
45:OG:21:TRP:CZ2	45:OG:65:ALA:HB2	2.47	0.48
45:OM:84:ARG:HG3	45:OM:85:GLN:OE1	2.12	0.48
45:PE:17:GLY:HA2	45:PE:20:CYS:SG	2.53	0.48
45:PG:356:ASN:OD1	45:PG:357:TYR:N	2.46	0.48
45:PM:211:ASP:O	45:PM:215:ARG:HG2	2.11	0.48
45:PM:230:LEU:HA	45:PM:233:GLN:HE21	1.78	0.48
46:QB:9:GLY:HA2	46:QB:66:MET:O	2.13	0.48
45:QC:181:VAL:HG23	45:QC:182:VAL:HG23	1.95	0.48
45:QC:239:THR:HG23	45:QC:243:ARG:HH21	1.78	0.48
46:QF:204:ASN:HD21	49:QF:501:GDP:N2	2.11	0.48
45:QG:31:GLN:HG2	45:QG:35:GLN:H	1.78	0.48
46:QH:73:MET:HE3	46:QH:92:PHE:HB3	1.95	0.48
45:QI:288:VAL:HG11	45:QI:323:VAL:HG23	1.95	0.48
45:QI:329:ASN:HA	45:QI:332:ILE:HG12	1.95	0.48
46:QJ:268:ILE:HG22	46:QJ:368:VAL:HG22	1.95	0.48
46:QL:284:LEU:HD11	46:QL:362:LYS:HE3	1.95	0.48
45:RG:346:TRP:CD1	46:RH:391:ARG:HG3	2.48	0.48
46:RH:312:THR:HG22	46:RH:370:ASN:HB3	1.93	0.48
45:RK:152:LEU:HA	45:RK:155:GLU:OE1	2.13	0.48
46:RL:222:TYR:HA	46:RL:225:LEU:HD12	1.95	0.48
45:RM:214:ARG:HH11	45:RM:215:ARG:NH1	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RN:74:ASP:OD1	46:RN:77:ARG:NH2	2.46	0.48
46:SB:54:ALA:HB1	46:TB:281:TYR:O	2.13	0.48
46:SB:252:LYS:HA	46:SB:255:VAL:HG12	1.95	0.48
46:SB:289:LEU:HD13	46:SB:365:VAL:HG23	1.95	0.48
46:SF:113:ILE:HG12	46:SF:117:LEU:CD2	2.40	0.48
46:SF:258:ILE:HG13	45:SG:407:TRP:CZ2	2.48	0.48
45:SG:63:PRO:HG2	45:SG:87:PHE:CD2	2.48	0.48
46:SJ:73:MET:HA	46:SJ:76:VAL:HG12	1.95	0.48
46:TD:324:LYS:NZ	45:TE:222:PRO:HG2	2.28	0.48
45:TE:141:VAL:HG12	45:TE:171:ILE:O	2.13	0.48
46:TH:372:THR:HG21	46:TH:426:GLN:HB2	1.95	0.48
45:TK:76:ASP:O	45:TK:80:THR:HG23	2.13	0.48
45:UC:337:THR:O	45:UC:339:ARG:NH1	2.45	0.48
46:UH:97:ALA:O	46:UH:103:LYS:NZ	2.37	0.48
46:UJ:21:TRP:CZ2	46:UJ:63:ALA:HB2	2.48	0.48
46:UJ:341:PHE:HB3	46:UJ:348:ASN:HD21	1.78	0.48
46:UL:214:THR:HG22	46:UL:297:LYS:HE3	1.94	0.48
45:UM:98:ASP:OD1	45:UM:99:ALA:N	2.46	0.48
45:VA:55:GLU:HG3	45:VA:57:GLY:H	1.77	0.48
45:VA:167:LEU:HG	45:VA:200:VAL:HB	1.95	0.48
45:VG:97:GLU:HG2	45:VG:105:ARG:HH22	1.78	0.48
45:VG:356:ASN:OD1	45:VG:357:TYR:N	2.46	0.48
46:VN:317:PHE:CD1	46:VN:365:VAL:HG22	2.48	0.48
45:WA:103:PHE:H	45:WA:408:TYR:HE2	1.60	0.48
45:WA:329:ASN:HA	45:WA:332:ILE:HG12	1.95	0.48
46:WD:288:GLU:HA	46:WD:291:GLN:HG3	1.95	0.48
46:WF:293:MET:HG2	46:WF:365:VAL:HG11	1.94	0.48
45:WG:5:ILE:HG12	45:WG:132:LEU:HD11	1.95	0.48
45:WG:183:GLU:N	45:WG:184:PRO:HD2	2.28	0.48
45:WG:265:ILE:HG12	45:WG:432:TYR:CE1	2.47	0.48
46:WL:6:HIS:NE2	46:WL:8:GLN:OE1	2.46	0.48
45:DC:63:PRO:HG2	45:DC:87:PHE:CE2	2.48	0.48
1:0A:35:TYR:H	46:MB:320:ARG:HH21	1.61	0.48
9:0N:158:THR:HG23	46:KN:227:HIS:CE1	2.47	0.48
14:0V:24:ARG:NH2	45:MM:433:GLU:HB2	2.27	0.48
18:1I:22:LEU:HD11	46:ID:45:GLU:OE2	2.12	0.48
23:1O:260:LEU:HD22	45:UA:372:MET:SD	2.53	0.48
25:1R:245:VAL:HG12	45:BC:57:GLY:HA2	1.94	0.48
1:2A:39:TYR:N	45:MI:77:GLU:OE2	2.45	0.48
29:2G:96:LYS:HE2	46:HJ:56:GLY:H	1.78	0.48
21:2L:525:LEU:CD1	46:BN:320:ARG:HG2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:3I:255:LYS:HE2	45:GI:214:ARG:NH2	2.28	0.48
11:3S:44:LYS:NZ	10:5Q:3:LYS:HB2	2.28	0.48
34:4R:220:ILE:HD12	34:4R:221:PRO:HD2	1.95	0.48
34:4R:542:TYR:HB3	34:4R:547:GLU:OE2	2.13	0.48
35:4S:187:LEU:CB	35:4S:240:MET:HG2	2.43	0.48
36:5B:150:PHE:CZ	45:NG:26:LEU:HD11	2.48	0.48
36:5C:150:PHE:CE1	45:NK:26:LEU:HD11	2.47	0.48
37:5E:133:PRO:O	37:5E:137:VAL:HG23	2.13	0.48
37:5G:164:LYS:H	37:5G:165:PRO:CD	2.26	0.48
10:6Q:61:ALA:HB3	10:6Q:62:PRO:HD3	1.95	0.48
34:7R:555:ASN:O	34:7R:575:ARG:NH2	2.44	0.48
42:8L:60:UNK:C	46:SL:276:ARG:HH22	2.25	0.48
45:AA:60:LYS:NZ	45:AA:85:GLN:O	2.46	0.48
45:AI:9:VAL:HG23	45:AI:139:ASN:HB3	1.95	0.48
46:AN:309:ARG:N	46:AN:426:GLN:HE22	2.11	0.48
46:BJ:113:ILE:O	46:BJ:117:LEU:HD23	2.12	0.48
46:CD:178:THR:HB	46:CD:181:GLU:OE2	2.14	0.48
46:CF:232:ALA:HB1	46:CF:268:ILE:HD12	1.96	0.48
46:CH:5:VAL:HG12	46:CH:62:ARG:HD3	1.94	0.48
46:CJ:116:VAL:HA	46:CJ:119:VAL:HG22	1.95	0.48
46:CJ:193:VAL:HG22	46:CJ:262:ARG:NH1	2.28	0.48
45:CK:174:SER:HB2	45:CK:177:VAL:O	2.14	0.48
46:CL:268:ILE:HG13	46:CL:300:MET:HG3	1.95	0.48
45:DA:188:ILE:HD12	45:DA:425:LEU:HD11	1.94	0.48
46:DD:326:VAL:HG12	46:DD:330:MET:CE	2.43	0.48
45:DE:280:LYS:HB3	45:CE:89:PRO:HG2	1.95	0.48
45:DG:271:SER:HA	45:DG:302:MET:HG2	1.95	0.48
45:DG:334:THR:O	45:DG:338:LYS:HE3	2.12	0.48
46:DH:66:MET:HE2	46:DH:147:MET:HG2	1.95	0.48
46:DN:262:ARG:NH1	46:DN:421:GLU:OE1	2.46	0.48
46:EB:97:ALA:HB3	46:EB:143:THR:HB	1.95	0.48
45:EE:231:ILE:O	45:EE:235:ILE:HG12	2.14	0.48
45:EG:231:ILE:O	45:EG:235:ILE:HG12	2.13	0.48
46:EH:405:GLU:HA	46:EH:408:PHE:HD2	1.77	0.48
46:EJ:12:CYS:HA	46:EJ:15:GLN:NE2	2.27	0.48
46:EL:374:ILE:HG12	46:EL:378:PHE:HE1	1.78	0.48
45:EM:408:TYR:HB3	45:EM:413:MET:HE3	1.95	0.48
46:EN:16:ILE:HD12	46:EN:229:VAL:HG11	1.96	0.48
46:FD:156:ARG:CZ	46:FD:195:ASN:HA	2.43	0.48
46:FF:248:SER:HA	46:FF:252:LYS:HD2	1.94	0.48
46:FH:11:GLN:HE22	49:FH:501:GDP:PA	2.36	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FH:215:LEU:HD21	46:FH:273:LEU:HD12	1.95	0.48
46:FH:318:ARG:HG2	46:FH:354:CYS:SG	2.53	0.48
46:FJ:97:ALA:HB3	46:FJ:143:THR:HB	1.95	0.48
45:FM:212:ILE:HD11	45:FM:300:ASN:HA	1.94	0.48
45:GC:398:MET:HG2	46:GD:345:ILE:HD12	1.95	0.48
45:GE:98:ASP:OD2	45:GE:99:ALA:N	2.46	0.48
46:GH:103:LYS:HA	46:GH:107:THR:HG22	1.95	0.48
45:GI:238:LEU:HD11	45:GI:255:PHE:CE2	2.49	0.48
45:GI:285:GLN:HE22	45:GI:287:SER:CB	2.21	0.48
46:HF:16:ILE:HD13	46:HF:226:ASN:OD1	2.13	0.48
45:HG:386:GLU:O	45:HG:390:ARG:HG2	2.12	0.48
45:IE:174:SER:HB3	45:IE:177:VAL:O	2.13	0.48
45:IE:183:GLU:N	45:IE:184:PRO:HD2	2.28	0.48
45:IG:215:ARG:NE	45:IG:216:ASN:OD1	2.37	0.48
45:IG:326:LYS:HZ1	46:IJ:219:THR:HA	1.78	0.48
46:IH:186:THR:HA	46:IH:189:VAL:HG12	1.95	0.48
46:IJ:211:CYS:HB2	46:IJ:217:LEU:HD21	1.93	0.48
45:IK:122:ILE:HG21	45:IK:157:LEU:HD11	1.94	0.48
46:IL:286:VAL:HB	46:IL:325:GLU:OE2	2.13	0.48
45:IM:120:ASP:OD1	45:IM:124:LYS:NZ	2.46	0.48
45:IM:387:VAL:HG12	45:IM:390:ARG:NH1	2.28	0.48
46:IN:113:ILE:HD13	46:IN:150:LEU:HD22	1.95	0.48
46:JH:8:GLN:NE2	46:JH:65:LEU:HB3	2.27	0.48
46:JJ:73:MET:CE	46:JJ:92:PHE:HB3	2.42	0.48
45:JK:205:ASP:OD2	45:JK:304:LYS:N	2.39	0.48
45:JM:222:PRO:HD2	46:JN:324:LYS:CD	2.42	0.48
46:JN:190:HIS:CD2	46:JN:414:ASN:HD22	2.31	0.48
45:KA:349:THR:O	46:KD:179:VAL:HG23	2.13	0.48
45:KC:115:VAL:O	45:KC:119:LEU:HD23	2.13	0.48
46:KH:8:GLN:HE21	46:KH:65:LEU:CD2	2.25	0.48
45:KI:301:MET:HA	45:KI:301:MET:HE3	1.94	0.48
46:KJ:32:PRO:HG3	46:KJ:81:PHE:HE2	1.78	0.48
46:KJ:211:CYS:SG	46:KJ:220:PRO:HB3	2.53	0.48
46:KN:201:VAL:HG21	46:KN:374:ILE:HD11	1.95	0.48
45:LA:311:LYS:N	45:LA:382:THR:OG1	2.44	0.48
46:LB:139:LEU:HD22	46:LB:188:SER:HB2	1.95	0.48
46:LD:58:ARG:NH1	46:MD:280:GLN:HE22	2.11	0.48
46:LH:206:ALA:O	46:LH:210:ILE:HG12	2.13	0.48
45:LI:407:TRP:CH2	46:LJ:255:VAL:HA	2.48	0.48
46:LJ:68:LEU:HD12	46:LJ:97:ALA:HB2	1.95	0.48
46:LJ:372:THR:HA	46:LJ:422:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:32:PRO:HA	46:LL:84:LEU:HD11	1.94	0.48
46:LL:186:THR:HA	46:LL:189:VAL:HG12	1.94	0.48
45:ME:183:GLU:N	45:ME:184:PRO:HD2	2.27	0.48
46:MJ:192:LEU:HD21	46:MJ:199:CYS:HB2	1.95	0.48
46:NB:32:PRO:HD3	46:NB:81:PHE:HE1	1.77	0.48
45:NC:128:ASN:HD21	45:OC:285:GLN:HE21	1.59	0.48
45:NG:111:GLY:O	45:NG:115:VAL:HG13	2.13	0.48
45:NG:274:PRO:HG3	45:NG:286:LEU:HD13	1.94	0.48
46:NH:256:ASN:ND2	46:NH:350:LYS:HE3	2.28	0.48
45:NK:105:ARG:HA	45:NK:109:THR:HB	1.94	0.48
46:OB:97:ALA:HB3	46:OB:143:THR:HB	1.95	0.48
46:OB:211:CYS:HB3	46:OB:217:LEU:HD21	1.94	0.48
45:OE:100:ALA:HA	46:OF:252:LYS:HG2	1.95	0.48
46:OH:6:HIS:HE1	46:OH:136:THR:HG23	1.77	0.48
45:OI:275:ILE:HG23	45:OI:368:LEU:HD11	1.95	0.48
46:ON:314:SER:OG	46:ON:368:VAL:HB	2.14	0.48
45:PC:100:ALA:O	46:PD:255:VAL:HG21	2.13	0.48
45:PE:141:VAL:HG11	45:PE:172:TYR:HD1	1.78	0.48
45:PE:264:ARG:HB2	45:PE:264:ARG:NH1	2.28	0.48
45:PG:154:LEU:HD22	45:PG:166:LYS:HD3	1.94	0.48
45:PG:222:PRO:HD2	46:PH:324:LYS:NZ	2.28	0.48
45:PI:51:THR:HG21	45:PI:243:ARG:HB3	1.95	0.48
46:PL:173:PRO:HD3	46:PL:380:ARG:CZ	2.43	0.48
45:QA:193:SER:O	45:QA:197:HIS:ND1	2.44	0.48
46:QB:97:ALA:HB3	46:QB:143:THR:HB	1.95	0.48
46:QD:99:ASN:HA	46:QD:142:GLY:H	1.77	0.48
45:QE:88:HIS:HB3	45:QE:91:GLN:CG	2.43	0.48
46:QF:5:VAL:HG11	46:QF:123:GLU:OE1	2.14	0.48
45:QI:268:MET:CE	45:QI:378:ILE:HG22	2.43	0.48
45:QK:221:ARG:HD2	45:QK:221:ARG:HA	1.62	0.48
45:QM:340:THR:HG23	45:QM:341:ILE:HG13	1.95	0.48
46:QN:6:HIS:O	46:QN:63:ALA:HA	2.13	0.48
46:QN:16:ILE:HD12	46:QN:229:VAL:HG11	1.94	0.48
45:RA:295:ALA:HB1	45:RA:377:MET:CE	2.43	0.48
45:RE:68:LEU:HD13	45:RE:93:ILE:HB	1.94	0.48
45:RI:138:PHE:CD1	45:RI:169:PHE:HB2	2.49	0.48
46:RL:22:GLU:HA	46:RL:81:PHE:CD2	2.48	0.48
46:RL:414:ASN:O	46:RL:418:LEU:HD23	2.13	0.48
45:RM:371:VAL:HG12	45:RM:373:ARG:H	1.78	0.48
45:SA:280:LYS:HD3	45:SA:283:HIS:ND1	2.28	0.48
45:SG:296:PHE:HE2	45:SG:335:ILE:HD12	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:183:GLU:N	45:SI:184:PRO:HD2	2.28	0.48
46:SN:229:VAL:HG12	46:SN:233:MET:HE2	1.95	0.48
45:TC:336:LYS:HE3	45:TC:351:PHE:CE1	2.48	0.48
45:TC:390:ARG:HG3	45:TC:391:LEU:HD12	1.96	0.48
45:TI:387:VAL:HA	45:TI:390:ARG:HG2	1.95	0.48
46:TL:31:ASP:HB3	46:TL:37:HIS:HD2	1.79	0.48
46:TL:327:ASP:HA	46:TL:330:MET:HG3	1.95	0.48
45:TM:68:LEU:HD11	45:TM:118:CYS:HB2	1.95	0.48
45:UA:231:ILE:O	45:UA:235:ILE:HG12	2.13	0.48
46:UB:2:ARG:O	46:UB:131:GLN:NE2	2.46	0.48
46:UB:10:GLY:O	46:UB:14:ASN:ND2	2.45	0.48
45:UC:171:ILE:HG23	45:UC:204:LEU:O	2.12	0.48
45:UG:132:LEU:HD22	45:UG:164:LYS:HE2	1.95	0.48
46:UH:64:ILE:HD13	46:UH:119:VAL:HG13	1.95	0.48
45:UI:265:ILE:HG22	45:UI:380:ASN:HD21	1.77	0.48
45:UK:207:GLU:HA	45:UK:210:TYR:CD2	2.48	0.48
45:UM:88:HIS:CE1	45:UM:90:GLU:HG3	2.48	0.48
45:VA:121:ARG:NH2	45:VA:124:LYS:HD2	2.21	0.48
45:VA:324:VAL:HG11	45:VA:326:LYS:NZ	2.26	0.48
46:VD:117:LEU:HD13	46:VD:121:ARG:HH22	1.77	0.48
45:VE:145:THR:OG1	47:VE:501:GTP:O3G	2.19	0.48
45:VG:260:VAL:HB	46:VJ:397:TRP:CZ2	2.48	0.48
46:VH:117:LEU:HA	46:VH:120:VAL:HG12	1.94	0.48
45:VI:107:HIS:ND1	45:VI:107:HIS:O	2.46	0.48
45:VI:285:GLN:O	45:VI:373:ARG:NH2	2.46	0.48
46:VJ:8:GLN:HG3	46:VJ:14:ASN:ND2	2.28	0.48
45:VK:223:THR:HG23	45:VK:225:THR:H	1.78	0.48
45:VK:352:LYS:HE2	46:VN:179:VAL:HG22	1.94	0.48
46:VL:49:VAL:HG11	46:VL:241:ARG:HG2	1.95	0.48
46:VL:238:CYS:SG	46:VL:318:ARG:NH1	2.86	0.48
45:WA:156:ARG:HG2	45:WA:156:ARG:HH11	1.78	0.48
46:WD:16:ILE:HD13	46:WD:226:ASN:OD1	2.12	0.48
46:WJ:268:ILE:HG22	46:WJ:368:VAL:HG13	1.95	0.48
46:WJ:290:THR:HG21	46:WJ:329:GLN:HG3	1.94	0.48
45:WM:183:GLU:N	45:WM:184:PRO:HD2	2.28	0.48
7:OG:26:LYS:NZ	45:IK:84:ARG:HD2	2.28	0.48
19:1J:54:ASN:HA	45:IC:221:ARG:NH1	2.28	0.48
19:1J:247:PRO:HB3	45:II:217:LEU:O	2.13	0.48
9:1N:215:CYS:SG	46:KJ:32:PRO:HG2	2.52	0.48
24:1P:302:LYS:HZ1	46:TD:362:LYS:HG2	1.79	0.48
24:1P:365:GLU:HG2	46:TB:359:LYS:HE2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:1R:153:LYS:HZ3	46:AF:75:SER:HB2	1.77	0.48
27:2C:65:PHE:HD2	45:LI:32:PRO:HB2	1.77	0.48
15:2X:97:GLN:NE2	45:LG:58:ALA:HB1	2.27	0.48
34:4R:219:LYS:HE3	46:BH:78:ALA:HB3	1.94	0.48
34:5R:285:THR:N	34:5R:306:ARG:HH22	2.12	0.48
34:5R:414:ASN:O	34:5R:418:THR:HG22	2.13	0.48
39:6F:70:ASN:HA	46:JF:361:LEU:HD12	1.95	0.48
10:6Q:136:LEU:O	10:6Q:140:THR:HG23	2.13	0.48
34:7R:317:HIS:O	46:CB:227:HIS:NE2	2.47	0.48
46:AF:244:GLY:HA2	46:AF:355:ASP:OD1	2.13	0.48
45:AI:322:ASP:OD1	45:AI:373:ARG:NH1	2.46	0.48
46:BD:2:ARG:HB2	46:BD:131:GLN:NE2	2.29	0.48
46:BD:117:LEU:HA	46:BD:120:VAL:HG12	1.94	0.48
45:BG:261:PRO:HA	46:BJ:394:PHE:CE2	2.48	0.48
46:BH:274:THR:HG23	46:BH:279:GLN:OE1	2.13	0.48
45:BK:272:TYR:HD1	45:BK:275:ILE:HD11	1.79	0.48
46:BL:36:TYR:CZ	46:BL:44:LEU:HD11	2.47	0.48
45:BM:207:GLU:OE1	45:BM:207:GLU:N	2.46	0.48
46:CB:376:GLU:HA	46:CB:379:LYS:NZ	2.27	0.48
46:CF:322:SER:O	45:CG:221:ARG:NH2	2.45	0.48
46:CJ:208:TYR:CE1	46:CJ:225:LEU:HD11	2.48	0.48
45:CK:252:ILE:HA	45:CK:255:PHE:CD1	2.49	0.48
46:DB:86:ARG:CZ	46:EB:278:SER:HA	2.43	0.48
45:DE:17:GLY:HA2	45:DE:20:CYS:SG	2.53	0.48
45:DE:31:GLN:HG2	45:DE:35:GLN:O	2.13	0.48
46:DL:66:MET:HE1	46:DL:147:MET:HG2	1.94	0.48
46:DL:256:ASN:HD21	46:DL:350:LYS:CE	2.25	0.48
46:DN:309:ARG:NH2	46:DN:426:GLN:O	2.39	0.48
45:EC:136:LEU:HD23	45:EC:167:LEU:HB2	1.95	0.48
45:EC:155:GLU:HG2	45:EC:197:HIS:CD2	2.49	0.48
45:EC:260:VAL:HB	46:ED:397:TRP:CZ2	2.46	0.48
46:EF:246:LEU:O	46:EF:352:SER:OG	2.28	0.48
45:EK:26:LEU:HD22	45:EK:364:PRO:HD3	1.95	0.48
45:EK:423:GLU:OE1	45:EK:423:GLU:N	2.46	0.48
46:EL:103:LYS:HG2	46:EL:108:GLU:OE2	2.13	0.48
45:EM:288:VAL:HA	45:EM:291:ILE:HG12	1.93	0.48
45:FA:377:MET:HE1	45:FA:379:SER:HB3	1.95	0.48
46:FB:238:CYS:SG	46:FB:239:CYS:N	2.87	0.48
46:FF:407:GLU:O	46:FF:410:GLU:HG3	2.13	0.48
45:FK:221:ARG:HG3	46:FL:322:SER:OG	2.12	0.48
45:FK:384:ILE:O	45:FK:387:VAL:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GB:257:LEU:HD12	46:GB:312:THR:HG23	1.96	0.48
46:GD:294:PHE:CD2	46:GD:333:VAL:HG11	2.48	0.48
45:GK:256:GLN:N	45:GK:256:GLN:OE1	2.45	0.48
45:GK:272:TYR:HD2	45:GK:275:ILE:HD11	1.78	0.48
45:GM:280:LYS:HD3	45:GM:283:HIS:ND1	2.28	0.48
46:GN:377:MET:O	46:GN:381:VAL:HG22	2.13	0.48
45:HA:180:ALA:HA	46:HB:350:LYS:HD2	1.94	0.48
46:HB:164:MET:H	46:HB:197:ASP:HB2	1.78	0.48
46:HD:44:LEU:HA	46:HD:47:ILE:HB	1.95	0.48
45:IA:183:GLU:N	45:IA:184:PRO:HD2	2.28	0.48
46:IB:299:MET:HE2	46:IB:301:CYS:HB2	1.96	0.48
45:IC:244:PHE:HB2	45:IC:356:ASN:HD21	1.77	0.48
45:IE:207:GLU:OE2	45:IE:304:LYS:NZ	2.28	0.48
45:IE:296:PHE:HZ	45:IE:315:CYS:HG	1.61	0.48
45:IG:227:LEU:O	45:IG:231:ILE:HG12	2.13	0.48
45:JA:112:LYS:HA	45:JA:115:VAL:HG22	1.94	0.48
46:JB:377:MET:HA	46:JB:377:MET:HE3	1.95	0.48
46:JD:21:TRP:CH2	46:JD:61:PRO:HB3	2.48	0.48
46:JF:218:THR:HG23	46:JF:219:THR:HG23	1.95	0.48
45:JG:191:THR:HA	45:JG:194:LEU:HG	1.95	0.48
46:JL:187:LEU:HD11	46:JL:408:PHE:HE2	1.78	0.48
46:JL:304:ASP:OD2	46:JL:306:ARG:NH1	2.46	0.48
45:KA:346:TRP:CD1	46:KD:391:ARG:HG3	2.48	0.48
46:KF:208:TYR:CE1	46:KF:225:LEU:HD11	2.48	0.48
45:KG:10:GLY:O	45:KG:14:ILE:HG12	2.13	0.48
45:KI:121:ARG:CZ	45:KI:124:LYS:HD3	2.42	0.48
46:KL:239:CYS:SG	46:KL:247:ASN:HA	2.53	0.48
46:KL:275:SER:O	46:KL:279:GLN:HG3	2.13	0.48
45:KM:407:TRP:HE1	46:KN:258:ILE:HG13	1.78	0.48
46:KN:2:ARG:HD2	46:KN:240:LEU:HD11	1.94	0.48
46:KN:121:ARG:NH2	46:KN:158:GLU:OE2	2.42	0.48
45:LG:102:ASN:ND2	45:LG:105:ARG:HG3	2.29	0.48
45:LI:107:HIS:ND1	45:LI:107:HIS:O	2.47	0.48
46:MB:317:PHE:HB2	46:MB:353:ILE:HD13	1.95	0.48
46:MJ:180:VAL:O	46:MJ:180:VAL:HG12	2.13	0.48
46:MN:3:GLU:HG3	46:MN:62:ARG:NH1	2.28	0.48
45:NA:28:HIS:CE1	45:NA:49:PHE:HB3	2.48	0.48
45:NC:345:ASP:OD1	45:NC:346:TRP:N	2.46	0.48
45:NE:280:LYS:HE3	45:NE:282:TYR:O	2.13	0.48
46:NF:4:ILE:HG13	46:NF:132:GLY:O	2.14	0.48
45:NK:279:GLU:HG2	45:NK:280:LYS:N	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OA:88:HIS:O	45:OA:91:GLN:HG3	2.13	0.48
45:OE:88:HIS:ND1	45:OE:89:PRO:HD2	2.29	0.48
46:OL:321:MET:SD	46:OL:321:MET:N	2.86	0.48
45:OM:137:VAL:HG23	45:OM:168:GLY:HA2	1.95	0.48
45:OM:286:LEU:N	45:OM:290:GLU:OE2	2.46	0.48
45:PA:258:ASN:HB3	45:PA:352:LYS:HE3	1.95	0.48
45:PA:407:TRP:HH2	46:PB:258:ILE:HB	1.79	0.48
45:PC:70:LEU:HA	45:PC:95:GLY:H	1.78	0.48
46:PD:252:LYS:O	46:PD:256:ASN:HB2	2.13	0.48
46:PD:313:ALA:HB1	46:PD:367:PHE:HE1	1.79	0.48
45:PG:254:GLU:O	45:PG:258:ASN:ND2	2.46	0.48
46:PL:273:LEU:N	46:PL:292:GLN:HE22	2.08	0.48
45:PM:196:GLU:OE2	45:PM:264:ARG:NH1	2.44	0.48
46:PN:86:ARG:HD2	46:QL:281:TYR:CD2	2.48	0.48
46:QB:10:GLY:O	46:QB:14:ASN:ND2	2.47	0.48
45:QC:244:PHE:HB2	45:QC:356:ASN:HD21	1.77	0.48
45:QE:105:ARG:O	45:QE:110:ILE:HG12	2.14	0.48
45:QG:331:SER:O	45:QG:335:ILE:HG23	2.14	0.48
46:QH:158:GLU:HG2	46:QH:159:TYR:CD1	2.48	0.48
45:QI:52:PHE:HZ	45:QI:239:THR:HG21	1.77	0.48
45:QI:101:ASN:HA	45:QI:144:GLY:H	1.78	0.48
45:QI:288:VAL:HA	45:QI:291:ILE:HG12	1.95	0.48
46:QJ:55:THR:HG23	46:RJ:283:ALA:HA	1.94	0.48
46:QJ:86:ARG:HH22	46:RJ:282:ARG:HA	1.77	0.48
45:QK:51:THR:HG21	45:QK:243:ARG:HB3	1.95	0.48
46:QL:145:SER:HB2	46:QL:188:SER:HB3	1.95	0.48
45:QM:17:GLY:HA2	45:QM:20:CYS:SG	2.52	0.48
46:RD:148:GLY:O	46:RD:152:ILE:HG12	2.13	0.48
46:RF:68:LEU:HD13	46:RF:143:THR:OG1	2.14	0.48
46:RF:86:ARG:NH2	46:SF:282:ARG:HB2	2.27	0.48
45:RI:338:LYS:HG2	45:RI:340:THR:HG22	1.94	0.48
46:RJ:409:THR:HA	46:RJ:412:GLU:OE1	2.13	0.48
45:RK:274:PRO:HG3	45:RK:286:LEU:HD12	1.96	0.48
45:RK:293:ASN:O	45:RK:297:GLU:HG2	2.12	0.48
46:SB:316:LEU:HD13	46:SB:352:SER:OG	2.12	0.48
46:SD:256:ASN:OD1	45:SE:181:VAL:HG22	2.14	0.48
46:SF:3:GLU:OE1	46:SF:3:GLU:HA	2.14	0.48
45:SK:277:SER:O	45:SK:281:ALA:N	2.46	0.48
45:TC:387:VAL:HG12	45:TC:390:ARG:HE	1.77	0.48
45:TG:152:LEU:HG	45:TG:156:ARG:NH1	2.28	0.48
46:TL:49:VAL:HG21	46:TL:241:ARG:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:198:GLU:HG2	46:TN:266:PHE:HE2	1.78	0.48
46:UB:73:MET:HE3	46:UB:77:ARG:NH2	2.28	0.48
46:UF:131:GLN:C	46:UF:162:ARG:HE	2.15	0.48
46:UJ:105:HIS:CE1	46:UJ:150:LEU:HD12	2.47	0.48
46:UL:73:MET:HA	46:UL:76:VAL:HG12	1.94	0.48
45:UM:294:SER:O	45:UM:297:GLU:HG2	2.13	0.48
46:UN:117:LEU:O	46:UN:121:ARG:HG3	2.14	0.48
46:UN:318:ARG:NE	46:UN:364:ALA:HB3	2.28	0.48
45:VA:88:HIS:CD2	45:VA:90:GLU:HG3	2.48	0.48
46:VB:58:ARG:HD2	46:VB:59:TYR:N	2.28	0.48
45:VE:251:ASP:OD2	45:VE:252:ILE:N	2.46	0.48
45:VK:352:LYS:NZ	46:VN:179:VAL:H	2.09	0.48
45:VM:167:LEU:HG	45:VM:200:VAL:HB	1.94	0.48
45:WA:118:CYS:O	45:WA:122:ILE:HG12	2.13	0.48
46:WB:178:THR:HB	46:WB:181:GLU:HG3	1.96	0.48
45:WC:46:ASP:OD1	45:WC:47:ASP:N	2.46	0.48
45:WC:356:ASN:OD1	45:WC:357:TYR:N	2.46	0.48
45:WE:51:THR:HG23	45:WE:52:PHE:CD1	2.49	0.48
45:WK:433:GLU:O	45:WK:437:ILE:HG23	2.13	0.48
46:WL:105:HIS:CE1	46:WL:150:LEU:HD13	2.47	0.48
45:DC:70:LEU:HD13	45:DC:145:THR:OG1	2.13	0.48
23:1O:152:CYS:HA	45:UE:370:LYS:NZ	2.29	0.48
31:2I:95:LYS:HA	46:GF:332:ASN:OD1	2.11	0.48
31:2I:118:LYS:HZ2	45:GC:342:GLN:HE21	1.58	0.48
13:2U:124:ASP:HB2	46:WJ:276:ARG:HH12	1.77	0.48
25:3R:245:VAL:HG12	45:BK:57:GLY:HA2	1.94	0.48
35:4S:106:PHE:HD1	35:4S:142:LEU:HD22	1.77	0.48
37:5F:188:GLN:NE2	37:5F:192:ASN:OD1	2.45	0.48
37:5H:27:ARG:NH2	45:OK:221:ARG:O	2.47	0.48
46:AB:148:GLY:O	46:AB:151:LEU:HG	2.12	0.48
46:AD:256:ASN:ND2	46:AD:350:LYS:HD3	2.28	0.48
46:AH:237:THR:HG22	46:AH:250:LEU:HD11	1.94	0.48
46:AJ:190:HIS:CE1	46:AJ:414:ASN:HD22	2.31	0.48
45:AK:176:GLN:O	46:AL:347:ASN:ND2	2.45	0.48
45:BC:100:ALA:HA	46:BD:252:LYS:HG2	1.94	0.48
45:BC:120:ASP:HA	45:BC:123:ARG:HH12	1.78	0.48
46:BH:2:ARG:HB2	46:BH:131:GLN:NE2	2.11	0.48
46:BJ:58:ARG:HD3	46:CH:280:GLN:NE2	2.29	0.48
45:BM:292:THR:HG21	45:BM:331:SER:HB3	1.95	0.48
46:BN:21:TRP:HA	46:BN:24:ILE:HG22	1.95	0.48
46:BN:178:THR:HG22	46:BN:180:VAL:H	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CB:334:GLN:HA	46:CB:341:PHE:HE2	1.77	0.48
46:CD:287:PRO:HA	46:CD:329:GLN:HE22	1.78	0.48
46:CF:141:GLY:O	46:CF:145:SER:CB	2.62	0.48
46:CH:139:LEU:HG	46:CH:168:SER:HB3	1.93	0.48
46:CL:8:GLN:HG3	46:CL:14:ASN:OD1	2.12	0.48
45:DA:147:SER:HB2	45:DA:190:SER:HB3	1.94	0.48
45:DG:326:LYS:HZ2	46:DH:220:PRO:HD2	1.79	0.48
46:DL:313:ALA:HB1	46:DL:367:PHE:HE1	1.78	0.48
46:DN:372:THR:HA	46:DN:422:TYR:HE2	1.78	0.48
45:EC:116:ASP:OD1	45:EC:116:ASP:N	2.47	0.48
46:ED:258:ILE:HG23	46:ED:266:PHE:HZ	1.79	0.48
45:EE:331:SER:O	45:EE:335:ILE:HG12	2.14	0.48
46:EJ:6:HIS:O	46:EJ:63:ALA:HA	2.12	0.48
45:EK:107:HIS:ND1	45:EK:107:HIS:O	2.47	0.48
45:EK:338:LYS:NZ	45:EK:340:THR:HG22	2.28	0.48
46:EL:375:GLN:OE1	46:EL:423:GLN:HB3	2.14	0.48
45:FC:210:TYR:HB3	46:FD:324:LYS:NZ	2.28	0.48
46:FF:200:MET:HG2	46:FF:266:PHE:HB2	1.94	0.48
45:FI:253:THR:O	45:FI:256:GLN:NE2	2.47	0.48
46:FL:86:ARG:NH1	46:GL:281:TYR:HB3	2.28	0.48
46:FL:101:TRP:HB2	46:FL:184:ASN:HB3	1.96	0.48
45:FM:108:TYR:HA	45:FM:112:LYS:HE3	1.94	0.48
46:FN:10:GLY:O	46:FN:14:ASN:ND2	2.46	0.48
45:GA:210:TYR:CE1	45:GA:227:LEU:HD11	2.49	0.48
46:GD:257:LEU:HD21	46:GD:314:SER:HB2	1.96	0.48
45:GE:2:ARG:CB	45:GE:133:GLN:HE22	2.23	0.48
45:GE:55:GLU:OE1	45:GE:61:HIS:NE2	2.47	0.48
45:GE:326:LYS:NZ	46:GH:208:TYR:HE1	2.12	0.48
46:GH:372:THR:HA	46:GH:422:TYR:CE2	2.48	0.48
45:HA:293:ASN:O	45:HA:297:GLU:HG2	2.14	0.48
45:HI:296:PHE:HE1	45:HI:377:MET:HE3	1.78	0.48
46:HJ:154:LYS:O	46:HJ:157:GLU:HG2	2.14	0.48
45:HK:11:GLN:HE21	45:HK:15:GLN:HE22	1.60	0.48
46:HL:350:LYS:NZ	46:HL:352:SER:HG	2.11	0.48
45:IE:155:GLU:HA	45:IE:197:HIS:CE1	2.48	0.48
46:IF:31:ASP:HB3	46:IF:37:HIS:NE2	2.27	0.48
45:II:256:GLN:NE2	46:IL:397:TRP:HH2	2.12	0.48
46:IL:190:HIS:CD2	46:IL:414:ASN:HD22	2.32	0.48
45:IM:227:LEU:O	45:IM:231:ILE:HG12	2.14	0.48
46:IN:11:GLN:NE2	49:IN:501:GDP:O1A	2.47	0.48
45:JC:212:ILE:HD11	45:JC:300:ASN:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:121:ARG:NH1	46:JF:158:GLU:OE2	2.47	0.48
45:JI:115:VAL:HG11	45:JI:152:LEU:HD23	1.96	0.48
45:JI:178:SER:HB3	46:JJ:347:ASN:HD21	1.77	0.48
46:KB:11:GLN:HG2	46:KB:15:GLN:NE2	2.28	0.48
46:KB:316:LEU:HB3	46:KB:366:THR:OG1	2.13	0.48
46:KD:318:ARG:HH21	46:KD:358:PRO:HG3	1.78	0.48
45:KG:320:ARG:HD3	45:KG:360:PRO:HG3	1.95	0.48
45:KG:426:ALA:O	45:KG:430:LYS:HG3	2.13	0.48
46:KJ:156:ARG:HH22	46:KJ:197:ASP:CG	2.15	0.48
45:KM:1:MET:O	45:KM:1:MET:HG3	2.13	0.48
45:LC:326:LYS:HZ3	46:LF:208:TYR:HB3	1.77	0.48
45:LG:217:LEU:HB3	45:LG:219:ILE:HG13	1.95	0.48
45:LI:274:PRO:HB2	45:LI:276:ILE:HG12	1.95	0.48
46:LJ:418:LEU:HD12	46:LJ:421:GLU:OE2	2.13	0.48
45:LK:170:THR:O	45:LK:204:LEU:HB2	2.13	0.48
45:LK:417:GLU:OE2	45:LK:417:GLU:N	2.46	0.48
46:LN:186:THR:HG23	46:LN:187:LEU:HD12	1.94	0.48
46:MB:276:ARG:HA	46:MB:279:GLN:NE2	2.27	0.48
46:MD:3:GLU:HG3	46:MD:62:ARG:NH1	2.28	0.48
46:MD:31:ASP:OD2	46:MD:34:GLY:N	2.46	0.48
45:ME:9:VAL:HG12	45:ME:68:LEU:HB2	1.95	0.48
46:MJ:405:GLU:HA	46:MJ:408:PHE:HD2	1.78	0.48
45:NA:10:GLY:O	45:NA:14:ILE:HG12	2.13	0.48
45:NC:183:GLU:N	45:NC:184:PRO:HD2	2.27	0.48
45:NC:225:THR:O	45:NC:229:ARG:HG3	2.14	0.48
46:ND:293:MET:HE1	46:ND:365:VAL:HG21	1.94	0.48
45:NE:33:ASP:HA	45:NE:85:GLN:HB2	1.94	0.48
45:NG:326:LYS:HE2	46:NJ:219:THR:HG22	1.94	0.48
46:NH:139:LEU:HD22	46:NH:170:VAL:HG12	1.95	0.48
46:NH:309:ARG:NH1	46:NH:339:SER:O	2.46	0.48
45:NI:68:LEU:HD13	45:NI:93:ILE:HB	1.96	0.48
45:NI:140:SER:HA	45:NI:171:ILE:HB	1.94	0.48
45:NM:283:HIS:O	45:NM:284:GLU:HG3	2.13	0.48
45:OE:180:ALA:HB3	45:OE:183:GLU:HB3	1.94	0.48
45:OK:205:ASP:OD1	45:OK:303:ALA:HA	2.13	0.48
45:OM:417:GLU:HA	45:OM:420:GLU:OE2	2.13	0.48
45:PA:174:SER:HB3	45:PA:207:GLU:HG2	1.94	0.48
45:PA:356:ASN:OD1	45:PA:357:TYR:N	2.45	0.48
46:PH:139:LEU:HD12	46:PH:170:VAL:HG12	1.96	0.48
45:PK:10:GLY:O	45:PK:14:ILE:HG12	2.13	0.48
45:PK:67:PHE:HB2	45:PK:92:LEU:HD13	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PL:6:HIS:O	46:PL:63:ALA:HA	2.13	0.48
45:PM:222:PRO:O	46:PN:324:LYS:HD3	2.12	0.48
45:PM:340:THR:HG23	45:PM:341:ILE:HG13	1.94	0.48
46:PN:1:MET:H2	46:PN:3:GLU:CD	2.17	0.48
45:QA:183:GLU:N	45:QA:184:PRO:HD2	2.27	0.48
46:QB:21:TRP:CH2	46:QB:50:TYR:HB3	2.48	0.48
45:QC:324:VAL:HG12	45:QC:326:LYS:HG2	1.95	0.48
45:QE:88:HIS:HA	45:RE:280:LYS:HE3	1.96	0.48
46:QF:201:VAL:HG13	46:QF:301:CYS:SG	2.54	0.48
45:QG:136:LEU:HD22	45:QG:169:PHE:HE2	1.78	0.48
45:QG:207:GLU:OE1	45:QG:207:GLU:N	2.34	0.48
46:QH:164:MET:O	46:QH:197:ASP:HB2	2.13	0.48
46:QH:171:PRO:HB2	46:QH:181:GLU:OE2	2.13	0.48
45:QK:188:ILE:HG23	45:QK:425:LEU:HD11	1.94	0.48
45:RA:206:ASN:OD1	47:RA:501:GTP:N2	2.43	0.48
45:RA:331:SER:O	45:RA:335:ILE:HG12	2.14	0.48
46:RB:238:CYS:SG	46:RB:239:CYS:N	2.87	0.48
45:RC:284:GLU:N	45:RC:284:GLU:OE2	2.46	0.48
46:RD:262:ARG:HH21	46:RD:418:LEU:HA	1.77	0.48
46:RD:324:LYS:NZ	45:RE:214:ARG:HB3	2.28	0.48
45:RI:402:ARG:HG3	45:RI:405:VAL:HG11	1.96	0.48
45:RK:220:GLU:O	45:RK:221:ARG:NE	2.45	0.48
46:RL:331:LEU:HD11	45:RM:177:VAL:HA	1.94	0.48
46:SB:164:MET:HB2	46:SB:197:ASP:H	1.79	0.48
45:SG:257:THR:HA	46:SH:397:TRP:CZ2	2.48	0.48
46:SH:46:ARG:HH22	45:SI:73:THR:HA	1.78	0.48
46:SJ:309:ARG:NH1	46:SJ:426:GLN:O	2.46	0.48
45:SM:288:VAL:HA	45:SM:291:ILE:HG12	1.95	0.48
46:SN:6:HIS:O	46:SN:63:ALA:HA	2.13	0.48
46:TB:244:GLY:HA3	46:TB:354:CYS:HA	1.94	0.48
45:TC:414:GLU:OE1	45:TC:416:GLY:N	2.33	0.48
45:TG:343:PHE:HZ	45:TG:351:PHE:CE1	2.32	0.48
46:TJ:3:GLU:OE2	46:TJ:49:VAL:HA	2.13	0.48
45:TK:426:ALA:HB1	45:TK:430:LYS:HZ3	1.77	0.48
46:TL:21:TRP:CZ2	46:TL:63:ALA:HB2	2.49	0.48
45:TM:220:GLU:O	45:TM:221:ARG:NH1	2.46	0.48
46:TN:42:LEU:HA	46:TN:45:GLU:HG3	1.94	0.48
46:UB:421:GLU:HA	46:UB:424:GLN:OE1	2.13	0.48
46:UD:3:GLU:OE1	46:UD:127:CYS:HB3	2.13	0.48
46:UH:117:LEU:HA	46:UH:120:VAL:HG22	1.95	0.48
46:UN:31:ASP:OD2	46:UN:37:HIS:ND1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:290:THR:HA	46:UN:293:MET:HG2	1.94	0.48
45:VG:118:CYS:O	45:VG:122:ILE:HG12	2.12	0.48
45:VG:136:LEU:HD22	45:VG:169:PHE:HE2	1.78	0.48
45:VG:164:LYS:O	45:VG:166:LYS:NZ	2.46	0.48
46:VJ:49:VAL:HG11	46:VJ:241:ARG:HG2	1.95	0.48
46:VJ:285:THR:HB	46:VJ:287:PRO:HD2	1.95	0.48
46:VJ:341:PHE:HB3	46:VJ:348:ASN:HD21	1.79	0.48
45:VK:207:GLU:OE1	45:VK:304:LYS:NZ	2.39	0.48
46:VL:217:LEU:HD11	46:VL:220:PRO:HB3	1.94	0.48
46:VN:55:THR:HG23	46:WN:283:ALA:HA	1.94	0.48
45:WC:74:VAL:O	45:WC:78:VAL:HG23	2.14	0.48
46:WD:222:TYR:HA	46:WD:225:LEU:HD12	1.94	0.48
45:WG:324:VAL:HG12	45:WG:326:LYS:HG2	1.96	0.48
45:WI:80:THR:O	45:WI:84:ARG:NH2	2.46	0.48
46:WJ:418:LEU:O	46:WJ:422:TYR:HB2	2.14	0.48
45:CE:75:ILE:O	45:CE:79:ARG:HG2	2.13	0.48
45:CE:203:MET:HA	45:CE:203:MET:HE3	1.95	0.48
8:0H:359:VAL:HG21	45:HM:282:TYR:CE2	2.47	0.48
25:1R:456:SER:O	46:FD:276:ARG:NE	2.45	0.48
27:2C:218:ARG:HD2	46:KJ:320:ARG:NH1	2.28	0.48
22:2M:47:LYS:NZ	46:IJ:75:SER:O	2.43	0.48
14:2V:94:GLY:HA3	46:LF:194:GLU:OE1	2.13	0.48
15:4X:45:GLN:O	15:4X:49:ILE:HG12	2.12	0.48
15:4X:109:GLN:O	15:4X:113:LEU:HD23	2.13	0.48
15:4X:111:ARG:O	15:4X:114:GLU:HG3	2.13	0.48
36:5B:59:TYR:HD2	46:KF:389:PHE:CE1	2.31	0.48
37:5E:209:ARG:HH12	45:LC:264:ARG:NH1	2.12	0.48
37:5F:110:ARG:HE	37:5F:112:ALA:H	1.60	0.48
37:5G:157:ARG:HH12	46:NL:35:THR:HG22	1.78	0.48
40:6G:270:THR:O	40:6G:271:TYR:CD1	2.66	0.48
10:6Q:102:ARG:CZ	45:AM:430:LYS:NZ	2.76	0.48
10:6Q:103:PHE:CG	10:6Q:139:PHE:HE2	2.31	0.48
46:AB:12:CYS:O	46:AB:16:ILE:HG12	2.14	0.48
46:AB:233:MET:O	46:AB:236:VAL:HG12	2.13	0.48
46:AD:156:ARG:NH1	46:AD:162:ARG:O	2.46	0.48
46:AF:99:ASN:HA	46:AF:142:GLY:H	1.77	0.48
46:AF:328:GLU:OE2	46:AF:329:GLN:HG2	2.12	0.48
45:AG:345:ASP:OD1	45:AG:346:TRP:N	2.46	0.48
46:AJ:272:PRO:HG3	46:AJ:284:LEU:HD11	1.95	0.48
45:AM:145:THR:OG1	47:AM:501:GTP:O1B	2.32	0.48
45:AM:293:ASN:O	45:AM:297:GLU:HG2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BB:285:THR:HB	46:BB:287:PRO:HD2	1.95	0.48
45:BC:272:TYR:HD2	45:BC:275:ILE:HD11	1.78	0.48
45:BE:201:ALA:HB3	45:BE:267:PHE:CD1	2.49	0.48
45:BE:242:LEU:HD11	45:BE:252:ILE:HG13	1.95	0.48
46:BJ:1:MET:CE	46:BJ:2:ARG:H	2.26	0.48
47:BK:501:GTP:O2G	46:BL:252:LYS:NZ	2.40	0.48
46:BL:174:LYS:HB2	46:BL:205:GLU:HG2	1.94	0.48
46:BN:51:TYR:HE2	46:BN:61:PRO:HG3	1.78	0.48
46:BN:102:ALA:HB2	46:BN:403:MET:HE2	1.96	0.48
46:CB:105:HIS:CE1	46:CB:150:LEU:HD13	2.48	0.48
46:CB:376:GLU:OE2	46:CB:379:LYS:NZ	2.40	0.48
46:CD:178:THR:HG22	46:CD:180:VAL:H	1.79	0.48
46:CN:316:LEU:HG	46:CN:352:SER:HB2	1.94	0.48
46:DD:73:MET:HB2	46:DD:90:PHE:CE1	2.49	0.48
46:DF:253:LEU:HD12	46:DF:257:LEU:HD13	1.95	0.48
45:DI:31:GLN:HG2	45:DI:35:GLN:O	2.13	0.48
46:DJ:309:ARG:NH1	46:DJ:426:GLN:O	2.38	0.48
46:ED:173:PRO:HG2	46:ED:380:ARG:HE	1.78	0.48
45:EE:328:VAL:O	45:EE:332:ILE:HG12	2.14	0.48
46:EH:288:GLU:O	46:EH:291:GLN:HG3	2.13	0.48
46:EL:101:TRP:HB2	46:EL:184:ASN:HB3	1.95	0.48
45:EM:328:VAL:HG11	45:EM:353:VAL:HG21	1.95	0.48
46:FB:1:MET:O	46:FB:2:ARG:HG2	2.13	0.48
45:FG:97:GLU:HG2	45:FG:105:ARG:HH22	1.79	0.48
46:FH:317:PHE:HE2	46:FH:326:VAL:HG13	1.77	0.48
45:FI:181:VAL:HG12	46:FJ:347:ASN:O	2.12	0.48
46:FL:19:LYS:O	46:FL:22:GLU:HG3	2.13	0.48
45:GC:98:ASP:OD1	45:GC:99:ALA:N	2.46	0.48
46:GD:384:GLN:O	46:GD:388:MET:HG2	2.14	0.48
46:GF:64:ILE:HD13	46:GF:119:VAL:HG13	1.95	0.48
45:GG:210:TYR:CE2	45:GG:227:LEU:HD11	2.49	0.48
45:GK:396:ASP:OD1	45:GK:397:LEU:N	2.46	0.48
45:GM:221:ARG:NH2	46:GN:321:MET:HB2	2.28	0.48
45:HC:208:ALA:O	45:HC:212:ILE:HG12	2.13	0.48
45:HC:223:THR:HG23	45:HC:225:THR:H	1.79	0.48
46:HD:313:ALA:HB1	46:HD:367:PHE:HE1	1.78	0.48
45:HE:147:SER:HB2	45:HE:190:SER:HB3	1.94	0.48
45:HE:208:ALA:O	45:HE:212:ILE:HG12	2.13	0.48
46:HL:390:ARG:O	46:HL:392:LYS:NZ	2.36	0.48
46:HN:229:VAL:O	46:HN:233:MET:HG3	2.14	0.48
45:IA:54:SER:OG	45:IA:64:ARG:NH2	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IB:285:THR:O	46:IB:288:GLU:HG3	2.13	0.48
45:IC:55:GLU:HG3	45:IC:57:GLY:H	1.79	0.48
46:ID:196:ALA:HB3	46:ID:264:HIS:HE1	1.77	0.48
46:IF:178:THR:HG22	46:IF:180:VAL:H	1.77	0.48
46:IH:65:LEU:HD22	46:IH:90:PHE:HE1	1.78	0.48
45:IK:399:TYR:OH	45:IK:402:ARG:NH1	2.47	0.48
46:JB:6:HIS:HE1	46:JB:8:GLN:HB3	1.78	0.48
46:JB:299:MET:HG3	46:JB:301:CYS:N	2.22	0.48
45:JC:142:GLY:HA3	45:JC:183:GLU:HG3	1.95	0.48
45:JG:177:VAL:HG13	46:JH:327:ASP:OD2	2.13	0.48
45:JI:89:PRO:HD3	45:KI:283:HIS:HD1	1.78	0.48
46:JJ:218:THR:HG23	46:JJ:219:THR:HG23	1.96	0.48
45:JK:256:GLN:OE1	45:JK:257:THR:HG23	2.13	0.48
45:JK:387:VAL:HA	45:JK:390:ARG:NE	2.29	0.48
46:JL:67:ASP:O	46:JL:92:PHE:HA	2.13	0.48
46:JL:322:SER:O	46:JL:325:GLU:HG2	2.13	0.48
46:KD:101:TRP:HB2	46:KD:184:ASN:HB3	1.95	0.48
46:KF:54:ALA:HB3	46:KF:58:ARG:HG2	1.94	0.48
45:KI:167:LEU:HG	45:KI:200:VAL:HB	1.96	0.48
46:KL:173:PRO:HG2	46:KL:380:ARG:HE	1.79	0.48
45:KM:34:GLY:HA3	45:KM:60:LYS:HE3	1.96	0.48
45:KM:209:ILE:HG22	45:KM:302:MET:HG3	1.93	0.48
46:KN:150:LEU:O	46:KN:154:LYS:HG2	2.13	0.48
46:LD:268:ILE:HG22	46:LD:368:VAL:HG22	1.95	0.48
46:LL:344:TRP:CE3	46:LL:345:ILE:HG23	2.48	0.48
46:LN:15:GLN:HB3	46:LN:226:ASN:HD21	1.78	0.48
46:LN:21:TRP:CZ3	46:LN:61:PRO:HB3	2.48	0.48
46:MB:276:ARG:HD2	46:MB:279:GLN:NE2	2.29	0.48
45:MC:55:GLU:CD	45:MC:57:GLY:H	2.17	0.48
46:MH:154:LYS:HE2	46:MH:154:LYS:HB2	1.68	0.48
45:MI:73:THR:HA	46:MJ:46:ARG:NH2	2.29	0.48
45:MI:395:PHE:CD1	45:MI:422:ARG:HD3	2.49	0.48
46:MN:139:LEU:HD13	46:MN:168:SER:HB3	1.94	0.48
46:NB:19:LYS:O	46:NB:23:VAL:HG23	2.13	0.48
46:NB:64:ILE:HD11	46:NB:123:GLU:HG3	1.94	0.48
46:NF:257:LEU:HD11	46:NF:314:SER:HB2	1.96	0.48
45:NI:105:ARG:HH12	46:NJ:251:ARG:HD3	1.79	0.48
46:NJ:190:HIS:CD2	46:NJ:414:ASN:HD22	2.32	0.48
46:NL:268:ILE:HG22	46:NL:368:VAL:HG22	1.94	0.48
45:OA:9:VAL:HG22	45:OA:68:LEU:HB2	1.95	0.48
46:OB:201:VAL:HG22	46:OB:266:PHE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OB:372:THR:HA	46:OB:422:TYR:CE2	2.49	0.48
45:OE:6:SER:OG	45:OE:64:ARG:O	2.28	0.48
45:OK:298:PRO:HA	45:OK:301:MET:HE1	1.96	0.48
46:ON:207:LEU:CD1	46:ON:228:LEU:HD11	2.43	0.48
45:PC:79:ARG:NH2	45:PC:92:LEU:O	2.46	0.48
45:PE:109:THR:HG22	45:PE:110:ILE:HG23	1.95	0.48
45:PE:183:GLU:N	45:PE:184:PRO:HD2	2.28	0.48
46:PF:417:ASP:O	46:PF:420:SER:N	2.47	0.48
45:PI:340:THR:HG23	45:PI:341:ILE:HG13	1.96	0.48
46:PJ:130:LEU:HB3	46:PJ:162:ARG:HE	1.78	0.48
45:PM:141:VAL:HG22	45:PM:187:SER:HA	1.94	0.48
46:QB:74:ASP:HA	46:QB:77:ARG:HH11	1.78	0.48
45:QC:12:GLY:HA2	45:QC:15:GLN:HE21	1.78	0.48
46:QD:116:VAL:HA	46:QD:119:VAL:HG12	1.95	0.48
46:QD:284:LEU:HD21	46:QD:362:LYS:HE3	1.95	0.48
46:QD:379:LYS:HD3	46:QD:419:VAL:HG11	1.95	0.48
46:RB:334:GLN:HA	46:RB:341:PHE:HE2	1.78	0.48
45:RI:209:ILE:HD12	45:RI:227:LEU:HB3	1.96	0.48
46:RL:2:ARG:HD2	45:RM:96:LYS:O	2.13	0.48
46:RL:174:LYS:HB2	46:RL:205:GLU:OE2	2.13	0.48
45:SA:109:THR:HG22	45:SA:110:ILE:HG23	1.94	0.48
45:SA:271:SER:HA	45:SA:302:MET:HG2	1.95	0.48
45:SC:192:HIS:HA	45:SC:195:LEU:HD23	1.95	0.48
45:SE:259:LEU:HB3	45:SE:268:MET:HE3	1.96	0.48
45:SI:69:ASP:OD1	45:SI:70:LEU:N	2.46	0.48
45:SK:224:TYR:HA	45:SK:227:LEU:HD13	1.95	0.48
46:SL:350:LYS:HZ1	45:SM:180:ALA:HA	1.79	0.48
45:SM:408:TYR:HB3	45:SM:413:MET:SD	2.54	0.48
45:TA:151:SER:O	45:TA:155:GLU:HG3	2.13	0.48
46:TB:139:LEU:HD13	46:TB:168:SER:HB3	1.95	0.48
45:TC:187:SER:O	45:TC:191:THR:HG23	2.13	0.48
46:TF:136:THR:HG22	46:TF:167:PHE:CD2	2.48	0.48
46:TF:273:LEU:O	46:TF:292:GLN:NE2	2.46	0.48
46:TF:288:GLU:O	46:TF:291:GLN:HG3	2.12	0.48
46:TL:121:ARG:NH1	46:TL:122:LYS:HB3	2.29	0.48
45:TM:136:LEU:HD13	45:TM:167:LEU:HB2	1.95	0.48
45:TM:269:LEU:HD23	45:TM:379:SER:O	2.14	0.48
45:TM:411:GLU:OE1	45:TM:411:GLU:N	2.47	0.48
46:UF:274:THR:HG23	46:UF:279:GLN:NE2	2.28	0.48
45:UK:171:ILE:HG23	45:UK:204:LEU:O	2.13	0.48
45:UM:387:VAL:HG12	45:UM:390:ARG:CZ	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:222:PRO:HD2	46:VB:324:LYS:CE	2.42	0.48
45:VC:324:VAL:HG11	45:VC:326:LYS:HZ3	1.78	0.48
45:VE:88:HIS:CE1	45:WE:280:LYS:HZ2	2.31	0.48
46:VH:73:MET:SD	46:VH:92:PHE:HB3	2.53	0.48
46:VH:139:LEU:CD2	46:VH:168:SER:HB3	2.43	0.48
46:VH:213:ARG:HA	46:VH:216:LYS:NZ	2.28	0.48
45:VI:10:GLY:O	45:VI:14:ILE:HG12	2.14	0.48
45:VI:152:LEU:O	45:VI:156:ARG:HG2	2.14	0.48
45:VI:331:SER:O	45:VI:335:ILE:HG12	2.14	0.48
46:VJ:114:ASP:O	46:VJ:117:LEU:HG	2.13	0.48
46:VJ:290:THR:HA	46:VJ:293:MET:HG3	1.96	0.48
46:VL:6:HIS:O	46:VL:63:ALA:HA	2.13	0.48
46:VL:105:HIS:HD2	46:VL:146:GLY:O	1.97	0.48
46:VN:145:SER:HB2	46:VN:188:SER:HB3	1.95	0.48
45:WE:3:GLU:HB2	45:WE:129:CYS:SG	2.54	0.48
46:WF:186:THR:HA	46:WF:189:VAL:HG12	1.96	0.48
46:WF:290:THR:HA	46:WF:293:MET:HG3	1.96	0.48
45:WI:147:SER:OG	45:WI:190:SER:HB3	2.14	0.48
46:WL:345:ILE:O	46:WL:345:ILE:HG13	2.13	0.48
45:WM:265:ILE:HG22	45:WM:380:ASN:HD21	1.77	0.48
46:WN:58:ARG:NH1	46:WN:60:VAL:HB	2.28	0.48
45:DC:205:ASP:OD2	45:DC:303:ALA:HA	2.13	0.48
1:0A:71:TYR:HE2	46:AB:320:ARG:HB3	1.76	0.48
6:0F:75:ARG:NH1	46:ED:357:PRO:HD2	2.28	0.48
3:1C:122:ARG:HH12	45:DM:225:THR:HB	1.76	0.48
19:1J:139:LYS:NZ	45:IE:372:MET:SD	2.82	0.48
23:1O:155:ILE:HD12	45:UE:370:LYS:HZ2	1.77	0.48
23:1O:239:ILE:HG12	46:UB:280:GLN:HA	1.95	0.48
31:2I:51:ALA:O	46:GH:306:ARG:NH1	2.47	0.48
21:2L:870:ARG:HG3	46:CJ:357:PRO:HG2	1.95	0.48
25:2R:70:THR:HG22	46:MH:320:ARG:NE	2.27	0.48
14:2V:22:ARG:NH2	45:ME:422:ARG:HG3	2.27	0.48
25:3R:247:SER:HA	45:BK:58:ALA:HB2	1.95	0.48
36:5A:22:TYR:HB2	36:5A:59:TYR:CZ	2.48	0.48
10:5Q:47:LEU:HD22	10:5Q:162:ILE:HD11	1.95	0.48
35:5S:158:MET:O	35:5S:162:LEU:HB2	2.14	0.48
39:6F:65:SER:O	46:JF:276:ARG:NH2	2.47	0.48
34:6R:335:VAL:HG22	34:6R:368:GLN:HE22	1.79	0.48
34:7R:133:LYS:NZ	34:7R:141:GLN:HB2	2.29	0.48
34:7R:335:VAL:HG22	34:7R:368:GLN:HE22	1.79	0.48
45:AA:76:ASP:OD2	46:AB:46:ARG:NH2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AB:272:PRO:HB2	46:AB:282:ARG:HH21	1.77	0.48
46:AD:116:VAL:HA	46:AD:119:VAL:HG12	1.96	0.48
46:AH:273:LEU:H	46:AH:292:GLN:HE22	1.61	0.48
45:AM:183:GLU:N	45:AM:184:PRO:HD2	2.29	0.48
45:AM:244:PHE:HB2	45:AM:356:ASN:HD21	1.79	0.48
45:BA:224:TYR:HA	45:BA:227:LEU:HD12	1.95	0.48
45:BC:152:LEU:O	45:BC:155:GLU:HG3	2.14	0.48
45:BI:172:TYR:HD1	45:BI:173:PRO:HD2	1.78	0.48
46:BN:237:THR:HG22	46:BN:250:LEU:HD11	1.95	0.48
45:CA:88:HIS:ND1	45:CA:90:GLU:HG2	2.28	0.48
46:CD:10:GLY:O	46:CD:14:ASN:ND2	2.47	0.48
45:CI:352:LYS:HE2	46:CJ:178:THR:HA	1.95	0.48
46:CJ:86:ARG:NH2	46:CJ:87:PRO:HD2	2.28	0.48
46:CL:350:LYS:NZ	45:CM:179:THR:HG22	2.29	0.48
46:CL:396:HIS:CD2	46:CL:397:TRP:CD1	3.02	0.48
45:DE:11:GLN:NE2	47:DE:501:GTP:O1A	2.46	0.48
46:DF:201:VAL:HG23	46:DF:301:CYS:SG	2.53	0.48
46:DH:209:ASP:HB3	46:DH:213:ARG:HH12	1.77	0.48
46:DH:318:ARG:HH11	46:DH:358:PRO:HG3	1.78	0.48
46:DL:249:ASP:OD1	46:DL:252:LYS:N	2.35	0.48
46:DL:250:LEU:HD13	46:DL:253:LEU:HD21	1.95	0.48
45:DM:51:THR:HG21	45:DM:243:ARG:HD3	1.96	0.48
46:EH:107:THR:HG1	46:EH:108:GLU:CD	2.12	0.48
45:EI:73:THR:O	45:EI:77:GLU:HG2	2.14	0.48
46:EL:67:ASP:OD1	46:EL:68:LEU:N	2.45	0.48
46:EL:325:GLU:HG2	45:EM:221:ARG:HG2	1.96	0.48
46:FB:289:LEU:HB3	46:FB:365:VAL:HG21	1.95	0.48
46:FD:121:ARG:O	46:FD:125:GLU:OE1	2.32	0.48
46:FD:409:THR:O	46:FD:412:GLU:HG3	2.14	0.48
45:FG:141:VAL:HG12	45:FG:171:ILE:O	2.13	0.48
45:FI:272:TYR:HD2	45:FI:275:ILE:HD11	1.78	0.48
45:FM:52:PHE:HB2	45:FM:243:ARG:HH12	1.78	0.48
45:GA:288:VAL:HA	45:GA:291:ILE:HG12	1.96	0.48
45:GC:21:TRP:CH2	45:GC:63:PRO:HB3	2.48	0.48
45:GC:407:TRP:HH2	46:GD:254:ALA:HB1	1.77	0.48
46:GD:294:PHE:CE2	46:GD:333:VAL:HG11	2.48	0.48
45:GG:181:VAL:HG23	45:GG:182:VAL:HG13	1.94	0.48
45:GG:332:ILE:HD12	45:GG:351:PHE:CE2	2.48	0.48
46:GH:230:SER:HA	46:GH:233:MET:HG2	1.95	0.48
46:GH:233:MET:O	46:GH:236:VAL:HG12	2.14	0.48
45:GI:68:LEU:HD21	45:GI:118:CYS:SG	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GJ:290:THR:HA	46:GJ:293:MET:HG2	1.96	0.48
45:GK:276:ILE:HD13	45:GK:281:ALA:HA	1.96	0.48
46:GL:299:MET:N	46:GL:299:MET:SD	2.87	0.48
46:HB:294:PHE:CE2	46:HB:333:VAL:HG11	2.48	0.48
46:HJ:3:GLU:OE1	46:HJ:3:GLU:N	2.45	0.48
45:HK:256:GLN:HB2	45:HK:260:VAL:HB	1.95	0.48
46:HL:58:ARG:CZ	46:IL:281:TYR:HE1	2.26	0.48
45:IA:170:THR:O	45:IA:204:LEU:HB2	2.13	0.48
45:IA:210:TYR:CE2	46:IB:324:LYS:HB2	2.49	0.48
45:IE:175:PRO:HG3	45:IE:390:ARG:CZ	2.43	0.48
45:IG:8:HIS:HB2	45:IG:67:PHE:HD2	1.78	0.48
45:IG:72:PRO:HD2	46:IH:2:ARG:NH2	2.29	0.48
45:IG:395:PHE:HZ	45:IG:418:PHE:HB3	1.77	0.48
46:IH:42:LEU:HA	46:IH:45:GLU:HB2	1.95	0.48
45:II:90:GLU:OE1	45:II:121:ARG:HD3	2.13	0.48
45:IK:288:VAL:HA	45:IK:291:ILE:HG12	1.95	0.48
45:IK:407:TRP:HH2	46:IL:254:ALA:HB1	1.79	0.48
46:IL:316:LEU:HD23	46:IL:352:SER:HB2	1.95	0.48
45:JA:147:SER:HB2	45:JA:190:SER:HB2	1.96	0.48
46:JB:206:ALA:HA	46:JB:209:ASP:OD2	2.13	0.48
45:JC:422:ARG:NH1	45:JC:422:ARG:O	2.47	0.48
46:JH:375:GLN:HG3	46:JH:419:VAL:HG13	1.95	0.48
45:JI:345:ASP:OD2	45:JI:346:TRP:N	2.46	0.48
45:JM:36:MET:SD	45:JM:37:PRO:HD2	2.53	0.48
45:JM:268:MET:HB2	45:JM:379:SER:O	2.13	0.48
46:JN:47:ILE:HD12	46:JN:59:TYR:CE2	2.48	0.48
45:KA:147:SER:HB2	45:KA:190:SER:OG	2.13	0.48
46:KB:121:ARG:NH2	46:KB:158:GLU:OE2	2.43	0.48
45:KE:262:TYR:HB2	45:KE:265:ILE:HG22	1.94	0.48
46:KF:101:TRP:CE3	46:KF:187:LEU:HD23	2.48	0.48
46:KJ:251:ARG:O	46:KJ:255:VAL:HG23	2.14	0.48
45:KK:42:ILE:HD12	45:KK:42:ILE:H	1.77	0.48
46:LB:175:VAL:HG22	46:LB:205:GLU:OE2	2.13	0.48
46:LD:180:VAL:HG12	46:LD:180:VAL:O	2.14	0.48
45:LG:214:ARG:HH21	45:LG:215:ARG:NH2	2.11	0.48
45:LK:321:GLY:HA3	45:LK:372:MET:O	2.12	0.48
45:LM:239:THR:HG23	45:LM:243:ARG:HH21	1.77	0.48
45:MK:109:THR:HB	45:MK:110:ILE:HD12	1.96	0.48
46:ND:238:CYS:SG	46:ND:318:ARG:HD3	2.53	0.48
45:NE:7:ILE:HB	45:NE:137:VAL:HG12	1.93	0.48
45:NI:21:TRP:CZ2	45:NI:65:ALA:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OD:200:MET:CE	46:OD:268:ILE:HG23	2.44	0.48
45:OE:100:ALA:HA	46:OF:252:LYS:HE2	1.96	0.48
45:OG:2:ARG:NH2	45:OG:242:LEU:HA	2.29	0.48
45:OG:100:ALA:HA	46:OH:252:LYS:HG2	1.94	0.48
45:OG:183:GLU:N	45:OG:184:PRO:HD2	2.29	0.48
46:OJ:213:ARG:HD2	46:OJ:297:LYS:HE3	1.95	0.48
46:ON:86:ARG:HG2	46:ON:89:ASN:OD1	2.14	0.48
46:PD:63:ALA:O	46:PD:89:ASN:ND2	2.47	0.48
45:PE:33:ASP:O	45:PE:60:LYS:NZ	2.45	0.48
45:PE:174:SER:HB2	45:PE:177:VAL:O	2.13	0.48
45:PE:231:ILE:O	45:PE:235:ILE:HG12	2.14	0.48
46:PF:19:LYS:HE2	46:PF:227:HIS:HB2	1.94	0.48
46:PF:189:VAL:HG13	46:PF:415:MET:HE3	1.96	0.48
45:PG:89:PRO:HD2	45:QG:280:LYS:NZ	2.28	0.48
45:PM:222:PRO:O	46:PN:322:SER:HB2	2.12	0.48
46:PN:109:GLY:O	46:PN:113:ILE:HG23	2.13	0.48
46:QB:1:MET:HE2	46:QB:2:ARG:HD3	1.96	0.48
45:QE:271:SER:OG	45:QE:301:MET:HG2	2.13	0.48
46:QF:15:GLN:HG2	49:QF:501:GDP:O6	2.13	0.48
46:QF:165:GLU:OE1	46:QF:198:GLU:HG2	2.14	0.48
46:QF:287:PRO:O	46:QF:290:THR:HG22	2.14	0.48
45:QI:314:ALA:HB3	45:QI:380:ASN:HD21	1.79	0.48
45:QM:69:ASP:HB3	45:QM:75:ILE:HD11	1.96	0.48
45:QM:88:HIS:HB3	45:QM:91:GLN:HG2	1.96	0.48
45:RC:209:ILE:HD12	45:RC:227:LEU:HB3	1.96	0.48
45:RC:317:MET:HB3	45:RC:377:MET:SD	2.53	0.48
45:RE:141:VAL:HG11	45:RE:172:TYR:HD1	1.78	0.48
45:RG:90:GLU:HG2	45:RG:121:ARG:HH21	1.79	0.48
45:RM:88:HIS:ND1	45:RM:89:PRO:HD2	2.27	0.48
45:SA:167:LEU:HG	45:SA:200:VAL:HB	1.96	0.48
45:SC:428:LEU:O	45:SC:432:TYR:HD2	1.96	0.48
45:SE:419:SER:O	45:SE:423:GLU:HG2	2.14	0.48
46:SN:5:VAL:HG12	46:SN:62:ARG:HD3	1.95	0.48
45:TA:346:TRP:CD1	46:TB:391:ARG:HG3	2.49	0.48
45:TC:223:THR:HG23	45:TC:225:THR:H	1.79	0.48
46:TF:150:LEU:HD23	46:TF:154:LYS:HZ2	1.78	0.48
45:TG:156:ARG:HG3	45:TG:156:ARG:NH1	2.27	0.48
45:TK:76:ASP:OD1	45:TK:79:ARG:NH2	2.45	0.48
46:TL:113:ILE:HD13	46:TL:150:LEU:HD22	1.96	0.48
45:UC:183:GLU:N	45:UC:184:PRO:HD2	2.28	0.48
45:UC:331:SER:O	45:UC:335:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UC:426:ALA:HB1	45:UC:430:LYS:HZ1	1.77	0.48
45:UI:2:ARG:HG3	45:UI:133:GLN:NE2	2.28	0.48
46:UJ:321:MET:CA	45:UK:221:ARG:HH22	2.19	0.48
45:UK:326:LYS:HZ1	46:UL:219:THR:HA	1.78	0.48
45:UM:287:SER:O	45:UM:291:ILE:HG12	2.13	0.48
46:UN:268:ILE:HG22	46:UN:368:VAL:HG22	1.96	0.48
45:VA:350:GLY:HA2	46:VD:179:VAL:HG12	1.95	0.48
46:VB:97:ALA:HA	46:VB:103:LYS:HE3	1.95	0.48
46:VD:299:MET:HE2	46:VD:301:CYS:HB2	1.94	0.48
46:VF:211:CYS:SG	46:VF:220:PRO:HB3	2.53	0.48
45:VI:414:GLU:OE1	45:VI:416:GLY:N	2.36	0.48
45:VK:167:LEU:HG	45:VK:200:VAL:HB	1.96	0.48
46:VL:103:LYS:O	46:VL:107:THR:OG1	2.32	0.48
45:VM:69:ASP:O	45:VM:94:SER:HA	2.14	0.48
45:WE:8:HIS:HB2	45:WE:67:PHE:HD1	1.78	0.48
45:WE:121:ARG:HA	45:WE:124:LYS:HG2	1.95	0.48
45:WG:101:ASN:HA	45:WG:144:GLY:H	1.78	0.48
45:WG:329:ASN:HA	45:WG:332:ILE:HG22	1.95	0.48
45:WI:175:PRO:HG3	45:WI:390:ARG:CZ	2.43	0.48
46:WJ:239:CYS:SG	46:WJ:247:ASN:HA	2.54	0.48
46:WJ:304:ASP:HB3	46:WJ:307:HIS:CE1	2.49	0.48
46:WL:19:LYS:HZ2	46:WL:227:HIS:HA	1.78	0.48
46:WL:201:VAL:HG23	46:WL:301:CYS:SG	2.53	0.48
2:0B:212:SER:H	45:JI:47:ASP:H	1.60	0.48
21:1L:757:TYR:CE2	45:BC:221:ARG:HG3	2.47	0.48
10:1Q:108:TYR:HE2	45:AC:420:GLU:HB3	1.78	0.48
14:1V:69:SER:OG	46:MJ:336:LYS:HB3	2.13	0.48
1:2A:154:ASN:HD21	34:5R:82:GLN:HG3	1.78	0.48
31:2I:46:TYR:HE1	46:FH:126:GLY:HA2	1.77	0.48
23:2O:260:LEU:HB3	45:VG:282:TYR:CE2	2.49	0.48
14:2V:24:ARG:NH2	45:ME:430:LYS:HA	2.28	0.48
14:2V:241:LYS:NZ	46:WH:218:THR:HG23	2.28	0.48
25:3R:454:ARG:NH2	46:FL:218:THR:HB	2.27	0.48
14:3V:122:LYS:HE2	46:LD:390:ARG:NH2	2.28	0.48
10:4Q:102:ARG:HE	45:AI:430:LYS:NZ	2.09	0.48
34:4R:510:GLU:H	34:4R:510:GLU:CD	2.17	0.48
34:4R:566:PHE:HD1	34:4R:589:MET:HG2	1.77	0.48
15:4X:60:GLU:OE1	15:4X:64:ARG:NH2	2.47	0.48
39:6F:19:SER:O	39:6F:37:GLN:NE2	2.43	0.48
41:6H:257:THR:OG1	46:FF:355:ASP:OD2	2.31	0.48
10:6Q:94:LEU:CD1	10:6Q:100:ARG:HH22	2.25	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AA:328:VAL:O	45:AA:332:ILE:HG12	2.14	0.48
46:AB:248:SER:HA	46:AB:252:LYS:HD2	1.94	0.48
45:AG:3:GLU:OE2	45:AG:131:GLY:N	2.45	0.48
46:AJ:161:ASP:OD1	46:AJ:162:ARG:NH1	2.47	0.48
46:AJ:282:ARG:HH22	46:MJ:86:ARG:HD2	1.79	0.48
45:AM:10:GLY:O	45:AM:14:ILE:HG12	2.13	0.48
45:BA:141:VAL:HG11	45:BA:172:TYR:HD1	1.77	0.48
45:BA:225:THR:OG1	45:BA:229:ARG:NH2	2.47	0.48
45:BA:349:THR:OG1	46:BD:176:SER:OG	2.14	0.48
46:BB:91:VAL:HG21	46:BB:116:VAL:HB	1.95	0.48
45:BC:10:GLY:O	45:BC:14:ILE:HG12	2.12	0.48
46:BD:121:ARG:HG2	46:BD:125:GLU:OE2	2.13	0.48
46:BH:203:ASP:O	46:BH:207:LEU:HG	2.13	0.48
46:BH:247:ASN:O	46:BH:252:LYS:NZ	2.31	0.48
46:BH:285:THR:O	46:BH:289:LEU:HD23	2.14	0.48
45:BK:268:MET:HG3	45:BK:380:ASN:OD1	2.12	0.48
45:BM:224:TYR:HE2	46:BN:323:THR:HG1	1.62	0.48
45:BM:237:SER:HA	45:BM:320:ARG:HH11	1.78	0.48
46:BN:90:PHE:HB3	46:BN:92:PHE:CE2	2.46	0.48
45:CA:319:TYR:HB3	45:CA:323:VAL:HG11	1.95	0.48
45:CC:10:GLY:O	45:CC:13:GLY:N	2.46	0.48
46:CF:255:VAL:HG21	45:CG:100:ALA:O	2.14	0.48
46:CH:324:LYS:NZ	45:CI:210:TYR:HB3	2.28	0.48
45:DE:346:TRP:CD1	46:DF:391:ARG:HG3	2.48	0.48
45:DI:62:VAL:HG21	45:EI:283:HIS:O	2.14	0.48
46:DL:156:ARG:NH2	46:DL:160:PRO:O	2.47	0.48
46:DL:175:VAL:HG22	46:DL:205:GLU:HB3	1.96	0.48
45:DM:317:MET:HG3	45:DM:377:MET:HB3	1.95	0.48
46:EB:130:LEU:HD11	46:EB:133:PHE:HE1	1.78	0.48
45:EC:50:ASN:O	45:EC:64:ARG:NH1	2.46	0.48
46:EF:376:GLU:OE2	46:EF:380:ARG:NH1	2.46	0.48
46:EH:258:ILE:HD11	45:EI:407:TRP:CZ2	2.49	0.48
46:EJ:208:TYR:CE2	46:EJ:225:LEU:HD11	2.48	0.48
45:EK:371:VAL:HG12	45:EK:373:ARG:H	1.79	0.48
46:EL:392:LYS:HD3	46:EL:392:LYS:N	2.29	0.48
45:EM:332:ILE:HG22	45:EM:336:LYS:NZ	2.29	0.48
46:FF:36:TYR:O	46:FF:37:HIS:ND1	2.47	0.48
45:FG:69:ASP:OD1	45:FG:71:GLU:N	2.38	0.48
45:FI:210:TYR:CZ	45:FI:227:LEU:HD11	2.48	0.48
46:FL:293:MET:CE	46:FL:367:PHE:HB2	2.43	0.48
45:FM:224:TYR:HE2	46:FN:246:LEU:HD11	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:183:GLU:N	45:GA:184:PRO:HD2	2.28	0.48
46:GH:221:THR:HG23	46:GH:224:ASP:H	1.77	0.48
45:GI:2:ARG:HH21	45:GI:243:ARG:HA	1.78	0.48
46:GJ:372:THR:HA	46:GJ:422:TYR:CE2	2.49	0.48
46:GJ:389:PHE:O	46:GJ:392:LYS:NZ	2.39	0.48
45:GM:71:GLU:OE1	46:GN:247:ASN:ND2	2.45	0.48
45:GM:328:VAL:HG11	45:GM:353:VAL:HG21	1.96	0.48
46:GN:273:LEU:H	46:GN:292:GLN:NE2	2.01	0.48
45:HA:2:ARG:NH2	46:HD:70:PRO:HD2	2.29	0.48
45:HA:312:TYR:HE2	45:HA:379:SER:HG	1.59	0.48
45:HE:3:GLU:OE2	45:HE:131:GLY:N	2.46	0.48
45:HE:334:THR:O	45:HE:338:LYS:HG2	2.14	0.48
46:HJ:285:THR:HG23	46:HJ:288:GLU:H	1.78	0.48
46:HL:273:LEU:H	46:HL:292:GLN:NE2	2.12	0.48
46:ID:16:ILE:HD13	46:ID:226:ASN:OD1	2.14	0.48
45:IE:105:ARG:HG2	45:IE:411:GLU:CD	2.34	0.48
45:IE:207:GLU:HA	45:IE:210:TYR:HD2	1.79	0.48
46:IJ:86:ARG:NE	45:JG:283:HIS:HB2	2.29	0.48
45:IK:3:GLU:HB2	45:IK:129:CYS:SG	2.54	0.48
45:KC:119:LEU:HA	45:KC:122:ILE:HG22	1.94	0.48
45:KC:329:ASN:HB3	46:KF:175:VAL:HG21	1.96	0.48
45:KG:212:ILE:HD11	45:KG:300:ASN:HA	1.96	0.48
46:KH:130:LEU:HB3	46:KH:162:ARG:HH12	1.78	0.48
46:KJ:268:ILE:HG13	46:KJ:300:MET:HG3	1.96	0.48
45:KK:264:ARG:HH22	45:KK:428:LEU:HD13	1.79	0.48
46:KL:294:PHE:CD2	46:KL:333:VAL:HG21	2.48	0.48
46:KN:8:GLN:HE21	46:KN:14:ASN:HA	1.78	0.48
46:KN:262:ARG:NH1	46:KN:421:GLU:OE1	2.46	0.48
46:LD:8:GLN:OE1	46:LD:17:GLY:HA3	2.14	0.48
45:LI:19:ALA:HA	45:LI:22:GLU:OE1	2.13	0.48
45:LI:210:TYR:CE1	45:LI:227:LEU:HD11	2.48	0.48
45:LI:222:PRO:HD2	46:LJ:324:LYS:NZ	2.28	0.48
46:LJ:173:PRO:HG2	46:LJ:380:ARG:HD3	1.95	0.48
45:MA:223:THR:HG23	45:MA:225:THR:H	1.78	0.48
45:MA:262:TYR:OH	46:MD:391:ARG:O	2.30	0.48
45:MA:282:TYR:HE1	45:MA:371:VAL:HG22	1.79	0.48
46:MB:91:VAL:HG21	46:MB:116:VAL:HB	1.94	0.48
45:MC:51:THR:HG22	45:MC:52:PHE:CD1	2.49	0.48
45:MC:280:LYS:HG3	45:MC:280:LYS:O	2.14	0.48
46:MH:254:ALA:O	46:MH:258:ILE:HG12	2.14	0.48
45:MK:183:GLU:N	45:MK:184:PRO:HD2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MM:6:SER:OG	45:MM:8:HIS:NE2	2.45	0.48
45:MM:288:VAL:HA	45:MM:291:ILE:HG12	1.95	0.48
45:NC:231:ILE:O	45:NC:235:ILE:HG12	2.14	0.48
46:NF:257:LEU:HA	46:NF:312:THR:HG21	1.95	0.48
45:NG:417:GLU:HA	45:NG:420:GLU:OE2	2.13	0.48
46:NH:101:TRP:HB3	46:NH:398:TYR:HE1	1.79	0.48
46:NJ:40:SER:H	46:NJ:43:GLN:HE21	1.62	0.48
46:NJ:156:ARG:CZ	46:NJ:195:ASN:HA	2.44	0.48
45:NK:72:PRO:HG2	46:NL:1:MET:SD	2.54	0.48
45:NM:28:HIS:NE2	45:NM:49:PHE:HB3	2.27	0.48
45:OA:89:PRO:HD2	45:PA:280:LYS:CE	2.44	0.48
46:OD:119:VAL:O	46:OD:122:LYS:HG3	2.14	0.48
45:OG:195:LEU:HD21	45:OG:264:ARG:HE	1.79	0.48
46:ON:334:GLN:HG3	46:ON:341:PHE:CD2	2.48	0.48
46:PF:256:ASN:ND2	46:PF:350:LYS:HE3	2.29	0.48
45:PG:256:GLN:O	46:PJ:397:TRP:NE1	2.46	0.48
46:PH:45:GLU:HG2	46:PH:46:ARG:HG2	1.96	0.48
46:PJ:310:TYR:CD1	46:PJ:371:SER:HB2	2.48	0.48
46:PL:86:ARG:HA	46:QJ:281:TYR:CE2	2.49	0.48
46:PL:375:GLN:HG3	46:PL:379:LYS:NZ	2.28	0.48
46:QB:289:LEU:HB3	46:QB:365:VAL:HG21	1.96	0.48
45:QE:175:PRO:HG2	45:QE:176:GLN:OE1	2.13	0.48
45:QG:14:ILE:HG23	45:QG:67:PHE:CD1	2.48	0.48
46:QH:226:ASN:HA	46:QH:229:VAL:HG12	1.95	0.48
45:QI:377:MET:SD	45:QI:379:SER:OG	2.57	0.48
45:QK:256:GLN:HG2	45:QK:260:VAL:HG21	1.96	0.48
45:RC:131:GLY:O	45:RC:133:GLN:NE2	2.46	0.48
45:RC:252:ILE:HD12	45:RC:252:ILE:H	1.78	0.48
45:RC:404:PHE:HA	45:RC:407:TRP:HZ3	1.77	0.48
46:RD:46:ARG:NH2	45:RE:76:ASP:OD2	2.47	0.48
45:RE:166:LYS:N	45:RE:199:ASP:OD2	2.37	0.48
45:RG:259:LEU:HB3	45:RG:268:MET:CE	2.43	0.48
46:RH:327:ASP:O	46:RH:330:MET:HG2	2.14	0.48
46:RJ:19:LYS:NZ	46:RJ:223:GLY:O	2.47	0.48
46:RL:8:GLN:HG2	46:RL:13:GLY:O	2.14	0.48
46:RL:271:ALA:HB1	46:RL:272:PRO:HA	1.94	0.48
45:SE:73:THR:O	45:SE:77:GLU:HG3	2.13	0.48
45:SE:278:ALA:HB2	45:SE:369:ALA:HB2	1.96	0.48
45:SI:430:LYS:O	45:SI:433:GLU:HG3	2.14	0.48
46:SJ:167:PHE:CE1	46:SJ:233:MET:HG2	2.48	0.48
45:SK:265:ILE:HG13	45:SK:380:ASN:HD21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:51:TYR:CE1	46:SL:61:PRO:HG3	2.49	0.48
46:TB:347:ASN:ND2	45:TC:176:GLN:O	2.46	0.48
46:TD:10:GLY:O	46:TD:14:ASN:ND2	2.45	0.48
45:TE:223:THR:HG23	45:TE:225:THR:H	1.78	0.48
46:TH:190:HIS:ND1	46:TH:411:ALA:HA	2.27	0.48
46:TL:105:HIS:CE1	46:TL:150:LEU:HD12	2.47	0.48
45:UA:224:TYR:HD1	45:UA:227:LEU:HD12	1.79	0.48
45:UE:387:VAL:HA	45:UE:390:ARG:NE	2.27	0.48
46:UF:265:PHE:HE1	46:UF:418:LEU:HD21	1.77	0.48
46:UH:116:VAL:HA	46:UH:119:VAL:HG12	1.96	0.48
46:UJ:322:SER:H	45:UK:221:ARG:NH2	2.11	0.48
46:UL:265:PHE:HE1	46:UL:418:LEU:HD21	1.78	0.48
46:UN:262:ARG:NH1	46:UN:421:GLU:OE1	2.46	0.48
46:UN:387:ALA:O	46:UN:390:ARG:NH1	2.40	0.48
46:VD:86:ARG:NE	46:VD:88:ASP:HB2	2.28	0.48
45:VE:401:LYS:HD2	46:VF:344:TRP:CE3	2.49	0.48
45:VM:231:ILE:O	45:VM:235:ILE:HG12	2.14	0.48
46:VN:5:VAL:HA	46:VN:62:ARG:HD3	1.96	0.48
46:VN:172:SER:HA	46:VN:380:ARG:NH1	2.29	0.48
46:WD:232:ALA:HB1	46:WD:268:ILE:HD12	1.96	0.48
46:WF:336:LYS:HB2	46:WF:336:LYS:NZ	2.29	0.48
45:WG:434:GLU:O	45:WG:437:ILE:HG12	2.14	0.48
46:WJ:201:VAL:HG22	46:WJ:266:PHE:O	2.14	0.48
46:WL:257:LEU:HD21	46:WL:314:SER:OG	2.14	0.48
45:CE:133:GLN:HB3	45:CE:252:ILE:HG21	1.95	0.48
45:DC:102:ASN:ND2	45:DC:407:TRP:O	2.43	0.48
17:1F:155:ASP:OD1	46:HL:296:ALA:HB3	2.13	0.48
9:2N:1:MET:N	45:IA:95:GLY:HA2	2.28	0.48
31:3I:228:ARG:NH2	46:GL:297:LYS:O	2.45	0.48
34:4R:208:ALA:HA	34:4R:211:ALA:HB3	1.96	0.48
36:5C:45:TYR:CZ	36:5C:56:ILE:HG13	2.48	0.48
35:5S:69:TYR:HD1	35:5S:74:LEU:HD12	1.77	0.48
40:6G:95:VAL:HG12	45:UK:113:GLU:OE2	2.14	0.48
40:6G:144:LYS:HZ3	40:6G:145:TRP:H	1.61	0.48
10:6Q:90:GLU:HB3	10:6Q:104:ARG:HD3	1.96	0.48
34:6R:534:HIS:NE2	34:6R:578:TYR:OH	2.45	0.48
45:AE:98:ASP:OD2	45:AE:99:ALA:N	2.47	0.48
46:AF:213:ARG:O	46:AF:216:LYS:HE3	2.14	0.48
45:AG:22:GLU:O	45:AG:26:LEU:HG	2.13	0.48
45:AI:147:SER:HB2	45:AI:190:SER:HB3	1.95	0.48
45:BA:3:GLU:N	45:BA:133:GLN:OE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BB:100:ASN:HD22	46:BB:103:LYS:HB2	1.78	0.48
45:BC:287:SER:O	45:BC:290:GLU:HG2	2.13	0.48
46:BD:65:LEU:HD22	46:BD:90:PHE:CE1	2.48	0.48
45:BE:98:ASP:O	45:BE:105:ARG:NH1	2.47	0.48
46:BJ:6:HIS:HD2	46:BJ:21:TRP:HE1	1.61	0.48
46:BJ:190:HIS:CE1	46:BJ:414:ASN:HD22	2.32	0.48
46:BJ:318:ARG:HH11	46:BJ:358:PRO:HG3	1.79	0.48
46:BL:68:LEU:HD23	46:BL:143:THR:OG1	2.13	0.48
46:BL:173:PRO:HD3	46:BL:380:ARG:NH1	2.29	0.48
46:BN:153:SER:O	46:BN:157:GLU:HG3	2.12	0.48
46:CB:145:SER:HB2	46:CB:188:SER:HB3	1.96	0.48
46:CB:297:LYS:HA	46:CB:297:LYS:HE2	1.95	0.48
46:CB:321:MET:HB2	45:CC:221:ARG:NH2	2.28	0.48
46:CB:324:LYS:HZ3	45:CC:221:ARG:HA	1.77	0.48
46:CF:379:LYS:HE2	46:CF:380:ARG:HH12	1.78	0.48
45:CI:70:LEU:HA	45:CI:95:GLY:H	1.79	0.48
45:CK:101:ASN:HA	45:CK:144:GLY:H	1.78	0.48
45:CK:187:SER:O	45:CK:191:THR:HG23	2.13	0.48
45:DE:324:VAL:HG22	45:DE:326:LYS:HG2	1.95	0.48
45:DG:135:PHE:HB2	45:DG:166:LYS:HG2	1.96	0.48
46:DH:8:GLN:O	46:DH:66:MET:HG2	2.14	0.48
45:DK:261:PRO:HA	46:DL:394:PHE:CD1	2.49	0.48
45:DK:434:GLU:O	45:DK:437:ILE:HG12	2.14	0.48
46:DL:2:ARG:HB3	46:DL:131:GLN:HG3	1.95	0.48
45:DM:98:ASP:OD1	45:DM:99:ALA:N	2.47	0.48
46:EB:318:ARG:HD3	46:EB:358:PRO:HG3	1.96	0.48
46:EH:36:TYR:CZ	46:EH:44:LEU:HD11	2.48	0.48
45:EI:231:ILE:O	45:EI:235:ILE:HG12	2.14	0.48
45:EK:223:THR:HG23	45:EK:225:THR:H	1.78	0.48
45:EK:332:ILE:HA	45:EK:335:ILE:HG12	1.95	0.48
45:EM:322:ASP:OD1	45:EM:373:ARG:NH1	2.45	0.48
45:FC:10:GLY:O	45:FC:14:ILE:HG12	2.13	0.48
45:FC:184:PRO:O	45:FC:188:ILE:HG12	2.14	0.48
46:FD:293:MET:CE	46:FD:365:VAL:HG11	2.44	0.48
45:FE:220:GLU:OE1	45:FE:221:ARG:NH1	2.40	0.48
45:FG:141:VAL:HG11	45:FG:172:TYR:CD1	2.48	0.48
45:FI:107:HIS:O	45:FI:107:HIS:ND1	2.46	0.48
45:GA:118:CYS:O	45:GA:122:ILE:HG12	2.14	0.48
45:GC:183:GLU:N	45:GC:184:PRO:HD2	2.28	0.48
45:GC:192:HIS:ND1	45:GC:424:ASP:OD2	2.45	0.48
45:GE:81:GLY:O	45:GE:84:ARG:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GE:358:GLN:NE2	45:GE:359:PRO:O	2.47	0.48
46:GF:51:TYR:HE2	46:GF:61:PRO:HG3	1.77	0.48
46:GF:131:GLN:O	46:GF:163:ILE:HG12	2.12	0.48
45:GG:268:MET:HG3	45:GG:380:ASN:HB2	1.95	0.48
46:GJ:86:ARG:HB3	46:GJ:89:ASN:OD1	2.13	0.48
46:HB:285:THR:O	46:HB:288:GLU:HG3	2.14	0.48
46:HF:105:HIS:CE1	46:HF:150:LEU:HD12	2.49	0.48
45:HG:89:PRO:HD3	45:IG:280:LYS:NZ	2.28	0.48
46:IB:273:LEU:N	46:IB:292:GLN:HE22	2.04	0.48
45:IG:69:ASP:OD1	45:IG:70:LEU:N	2.47	0.48
45:IK:167:LEU:HG	45:IK:200:VAL:HB	1.96	0.48
46:IL:285:THR:HB	46:IL:287:PRO:HD2	1.96	0.48
45:IM:271:SER:HB3	45:IM:377:MET:HB3	1.96	0.48
46:IN:45:GLU:C	46:IN:46:ARG:HD2	2.33	0.48
45:JC:183:GLU:N	45:JC:184:PRO:HD2	2.29	0.48
45:JC:259:LEU:HB3	45:JC:268:MET:CE	2.43	0.48
46:JD:190:HIS:CD2	46:JD:414:ASN:HD22	2.32	0.48
46:JD:313:ALA:HB1	46:JD:367:PHE:HE1	1.79	0.48
45:JE:222:PRO:O	46:JF:324:LYS:NZ	2.32	0.48
45:JI:47:ASP:OD1	45:JI:50:ASN:ND2	2.47	0.48
45:JI:217:LEU:HD13	45:JI:277:SER:HB3	1.95	0.48
46:JL:67:ASP:OD1	46:JL:68:LEU:N	2.40	0.48
45:KE:68:LEU:HD23	45:KE:93:ILE:HB	1.95	0.48
46:KF:198:GLU:HB3	46:KF:266:PHE:CE2	2.48	0.48
45:KG:269:LEU:H	45:KG:269:LEU:HD23	1.78	0.48
46:KH:68:LEU:HD12	46:KH:97:ALA:HB2	1.96	0.48
46:KJ:8:GLN:HG3	46:KJ:65:LEU:HD13	1.95	0.48
46:KN:171:PRO:HG2	46:KN:181:GLU:OE2	2.14	0.48
45:LA:191:THR:HA	45:LA:194:LEU:HG	1.96	0.48
46:LB:224:ASP:O	46:LB:228:LEU:HD23	2.13	0.48
46:LD:342:VAL:HG13	46:LD:345:ILE:HG22	1.95	0.48
45:LE:103:PHE:HB2	45:LE:186:ASN:HB3	1.95	0.48
46:LJ:251:ARG:O	46:LJ:255:VAL:HG23	2.14	0.48
46:MF:12:CYS:O	46:MF:16:ILE:HG12	2.14	0.48
45:MI:184:PRO:O	45:MI:188:ILE:HG12	2.13	0.48
45:MI:414:GLU:CD	45:MI:416:GLY:H	2.18	0.48
45:MK:227:LEU:O	45:MK:231:ILE:HD12	2.13	0.48
45:MM:311:LYS:N	45:MM:382:THR:OG1	2.42	0.48
45:NC:55:GLU:OE2	45:NC:56:THR:N	2.47	0.48
45:NC:372:MET:HG2	45:NC:373:ARG:HD3	1.95	0.48
45:NG:222:PRO:HD2	46:NH:324:LYS:CE	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:242:LEU:HD11	45:NG:252:ILE:HG13	1.96	0.48
46:NH:161:ASP:OD1	46:NH:162:ARG:N	2.47	0.48
45:NK:311:LYS:H	45:NK:382:THR:HB	1.78	0.48
45:NM:53:PHE:O	45:NM:64:ARG:NH1	2.41	0.48
46:NN:133:PHE:HB2	46:NN:164:MET:SD	2.54	0.48
46:OD:114:ASP:O	46:OD:117:LEU:HG	2.14	0.48
46:OF:268:ILE:O	46:OF:300:MET:HB2	2.14	0.48
46:OJ:133:PHE:O	46:OJ:164:MET:HA	2.14	0.48
46:OJ:164:MET:SD	46:OJ:196:ALA:HA	2.54	0.48
46:OJ:310:TYR:HE2	46:OJ:367:PHE:HZ	1.62	0.48
46:ON:375:GLN:HB2	46:ON:379:LYS:HZ3	1.79	0.48
46:PB:262:ARG:NH1	46:PB:421:GLU:OE1	2.45	0.48
46:PD:87:PRO:HA	46:PD:90:PHE:CD2	2.49	0.48
45:PG:205:ASP:OD1	45:PG:303:ALA:HA	2.14	0.48
45:PG:221:ARG:HA	46:PH:324:LYS:NZ	2.28	0.48
46:PJ:16:ILE:HD13	46:PJ:226:ASN:OD1	2.14	0.48
46:PJ:86:ARG:NE	46:QH:281:TYR:HB3	2.28	0.48
45:PK:206:ASN:OD1	47:PK:501:GTP:N2	2.47	0.48
46:PL:121:ARG:O	46:PL:125:GLU:HG2	2.14	0.48
45:PM:394:LYS:HE3	46:PN:346:PRO:HG2	1.96	0.48
46:PN:5:VAL:HG12	46:PN:62:ARG:HD3	1.95	0.48
45:QC:52:PHE:HZ	45:QC:239:THR:HG21	1.78	0.48
46:QD:3:GLU:HG3	46:QD:62:ARG:NH1	2.29	0.48
46:QD:207:LEU:HD13	46:QD:225:LEU:HB3	1.95	0.48
46:QD:418:LEU:HD12	46:QD:421:GLU:OE1	2.13	0.48
46:QF:49:VAL:HG21	46:QF:241:ARG:HG2	1.96	0.48
46:QF:346:PRO:HG2	45:QG:394:LYS:NZ	2.28	0.48
45:QI:345:ASP:CG	46:QJ:390:ARG:HH22	2.17	0.48
45:QK:136:LEU:HD12	45:QK:169:PHE:HE2	1.79	0.48
45:QK:322:ASP:OD2	45:QK:373:ARG:NH1	2.44	0.48
45:RA:287:SER:O	45:RA:291:ILE:HG12	2.13	0.48
46:RB:407:GLU:HA	46:RB:410:GLU:CD	2.34	0.48
45:RC:119:LEU:HA	45:RC:122:ILE:HG12	1.95	0.48
45:RE:288:VAL:HG11	45:RE:327:ASP:HB3	1.95	0.48
46:RH:67:ASP:OD1	46:RH:68:LEU:N	2.46	0.48
45:RI:72:PRO:O	45:RI:76:ASP:HB2	2.14	0.48
45:RK:265:ILE:HG12	45:RK:432:TYR:CE1	2.49	0.48
45:RM:102:ASN:ND2	45:RM:105:ARG:HG2	2.29	0.48
45:RM:217:LEU:HD22	45:RM:367:ASP:HB3	1.95	0.48
46:SB:64:ILE:HA	46:SB:89:ASN:HB3	1.96	0.48
46:SB:370:ASN:OD1	46:SB:422:TYR:OH	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:118:CYS:O	45:SC:122:ILE:HG12	2.14	0.48
45:SC:141:VAL:HG12	45:SC:171:ILE:O	2.13	0.48
45:SC:329:ASN:HB3	46:SD:175:VAL:HG12	1.95	0.48
46:SD:379:LYS:O	46:SD:383:GLU:OE1	2.31	0.48
45:SI:80:THR:O	45:SI:84:ARG:NH2	2.46	0.48
45:SI:211:ASP:HA	45:SI:214:ARG:HG2	1.96	0.48
46:SL:64:ILE:HG21	46:SL:116:VAL:HG23	1.96	0.48
46:SL:350:LYS:NZ	45:SM:180:ALA:HA	2.29	0.48
46:SN:198:GLU:HG2	46:SN:266:PHE:HE2	1.78	0.48
46:TF:409:THR:O	46:TF:412:GLU:HG3	2.14	0.48
45:TG:82:THR:HG23	45:TG:83:TYR:CD2	2.48	0.48
45:TG:88:HIS:ND1	45:TG:91:GLN:OE1	2.44	0.48
45:UC:227:LEU:O	45:UC:231:ILE:HG12	2.13	0.48
45:UE:38:SER:O	45:UE:38:SER:OG	2.32	0.48
46:UF:221:THR:HG23	46:UF:223:GLY:H	1.78	0.48
46:UH:60:VAL:HG21	46:VH:281:TYR:HE1	1.77	0.48
46:UJ:383:GLU:HA	46:UJ:386:THR:HG22	1.96	0.48
45:UM:227:LEU:O	45:UM:231:ILE:HG12	2.13	0.48
45:UM:242:LEU:HD21	45:UM:251:ASP:HA	1.96	0.48
46:UN:22:GLU:HG2	46:UN:81:PHE:HB2	1.95	0.48
46:UN:404:ASP:O	46:UN:407:GLU:HG2	2.13	0.48
45:VA:69:ASP:CG	45:VA:75:ILE:HD13	2.33	0.48
46:VB:345:ILE:O	46:VB:345:ILE:HG13	2.14	0.48
45:VE:135:PHE:HE2	45:VE:157:LEU:HD12	1.79	0.48
45:VE:319:TYR:HE2	45:VE:328:VAL:HG13	1.79	0.48
46:VF:116:VAL:HA	46:VF:119:VAL:HG12	1.96	0.48
45:VG:414:GLU:CD	45:VG:416:GLY:H	2.15	0.48
46:VH:216:LYS:HG2	46:VH:275:SER:HB3	1.96	0.48
45:VK:301:MET:HE1	45:VK:305:CYS:O	2.13	0.48
46:WB:167:PHE:CE2	46:WB:200:MET:HG3	2.49	0.48
45:WE:306:ASP:OD2	45:WE:308:ARG:NH2	2.39	0.48
45:WG:259:LEU:HD13	45:WG:268:MET:HE1	1.95	0.48
46:WH:143:THR:OG1	49:WH:501:GDP:O1B	2.25	0.48
45:WI:66:VAL:HG11	45:WI:122:ILE:HD11	1.94	0.48
45:WI:223:THR:HG23	45:WI:225:THR:H	1.78	0.48
45:WK:68:LEU:HD21	45:WK:118:CYS:HB3	1.95	0.48
45:WM:21:TRP:CZ2	45:WM:65:ALA:HB2	2.49	0.48
45:DC:333:ALA:O	45:DC:337:THR:HG23	2.14	0.48
14:OV:69:SER:OG	46:MN:336:LYS:HB3	2.14	0.48
15:OX:1:MET:H3	45:MA:249:ASN:HD22	1.60	0.48
1:1A:125:LEU:H	46:AF:279:GLN:HE22	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:142:VAL:O	45:HE:57:GLY:HA3	2.13	0.48
23:1O:266:GLU:HB2	45:UA:282:TYR:CE1	2.48	0.48
24:2P:391:ARG:NH2	45:TM:365:GLY:H	2.12	0.48
25:3R:224:PHE:CD2	46:BN:80:PRO:HD3	2.49	0.48
33:4F:165:THR:HG21	45:IM:225:THR:HB	1.96	0.48
35:4S:106:PHE:CD1	35:4S:142:LEU:HD22	2.48	0.48
36:5D:36:ARG:HG2	36:5D:37:ASP:N	2.27	0.48
10:5Q:163:ARG:HG3	10:5Q:164:ARG:HG2	1.96	0.48
35:5S:122:GLN:O	35:5S:125:GLU:HG3	2.12	0.48
41:6H:167:LYS:HZ2	46:FB:362:LYS:HG3	1.79	0.48
34:7R:581:THR:OG1	34:7R:584:GLU:OE1	2.20	0.48
46:AB:268:ILE:HG13	46:AB:300:MET:HE2	1.95	0.48
46:AD:99:ASN:HA	46:AD:142:GLY:H	1.79	0.48
45:BA:107:HIS:HD2	45:BA:108:TYR:CE2	2.32	0.48
46:BB:38:GLY:HA3	46:BB:43:GLN:HE22	1.78	0.48
46:BH:150:LEU:O	46:BH:154:LYS:HG2	2.13	0.48
46:BH:396:HIS:HA	46:BH:399:THR:OG1	2.14	0.48
45:BK:103:PHE:H	45:BK:408:TYR:HE2	1.61	0.48
46:CD:130:LEU:HB3	46:CD:162:ARG:HH21	1.78	0.48
46:CH:145:SER:HB2	46:CH:188:SER:HB3	1.96	0.48
45:CI:314:ALA:N	45:CI:380:ASN:OD1	2.47	0.48
46:CJ:86:ARG:HB2	46:CJ:89:ASN:HB2	1.95	0.48
45:DA:326:LYS:HG2	46:DB:208:TYR:CD1	2.49	0.48
45:DE:433:GLU:O	45:DE:437:ILE:HG12	2.13	0.48
46:DH:312:THR:HG22	46:DH:370:ASN:HB3	1.96	0.48
45:DK:221:ARG:HA	45:DK:221:ARG:HD2	1.67	0.48
45:EC:60:LYS:HZ1	45:FA:282:TYR:HD2	1.62	0.48
46:ED:4:ILE:HG13	46:ED:132:GLY:O	2.14	0.48
46:ED:256:ASN:HD22	46:ED:350:LYS:HB2	1.78	0.48
46:ED:322:SER:HB2	45:EE:223:THR:HA	1.96	0.48
45:EE:90:GLU:OE1	45:FC:280:LYS:HE3	2.14	0.48
45:EE:296:PHE:HZ	45:EE:315:CYS:HG	1.61	0.48
46:EF:68:LEU:HD13	46:EF:143:THR:OG1	2.13	0.48
46:EJ:122:LYS:HG3	46:FJ:291:GLN:NE2	2.28	0.48
46:EN:116:VAL:HA	46:EN:119:VAL:HG12	1.96	0.48
46:FB:257:LEU:HD21	46:FB:368:VAL:HG13	1.95	0.48
46:FD:150:LEU:O	46:FD:154:LYS:HG2	2.14	0.48
45:FK:241:SER:OG	45:FK:250:VAL:O	2.29	0.48
46:GB:100:ASN:HD22	46:GB:103:LYS:HB2	1.78	0.48
45:GC:221:ARG:HA	45:GC:221:ARG:NH1	2.28	0.48
45:GE:288:VAL:HA	45:GE:291:ILE:HG12	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GH:16:ILE:HD13	46:GH:226:ASN:OD1	2.14	0.48
45:GI:102:ASN:ND2	45:GI:105:ARG:HG3	2.29	0.48
46:GJ:287:PRO:HA	46:GJ:290:THR:HG22	1.96	0.48
45:GK:98:ASP:OD1	45:GK:99:ALA:N	2.47	0.48
46:GL:190:HIS:CD2	46:GL:411:ALA:HA	2.42	0.48
46:GL:226:ASN:HA	46:GL:229:VAL:HG12	1.96	0.48
45:GM:171:ILE:HG23	45:GM:204:LEU:O	2.13	0.48
46:GN:383:GLU:HA	46:GN:386:THR:HG22	1.96	0.48
45:HA:260:VAL:HG13	45:HA:265:ILE:O	2.14	0.48
45:HC:331:SER:O	45:HC:335:ILE:HG12	2.14	0.48
46:HD:257:LEU:HD11	46:HD:314:SER:OG	2.14	0.48
45:HE:223:THR:HG23	45:HE:225:THR:H	1.79	0.48
46:HF:186:THR:HA	46:HF:189:VAL:HG12	1.96	0.48
45:HG:384:ILE:O	45:HG:387:VAL:HG22	2.14	0.48
45:HI:260:VAL:O	45:HI:260:VAL:HG13	2.14	0.48
46:HJ:293:MET:HE2	46:HJ:367:PHE:HD1	1.78	0.48
46:HL:154:LYS:O	46:HL:157:GLU:HG3	2.13	0.48
45:HM:268:MET:HB2	45:HM:379:SER:O	2.14	0.48
46:HN:54:ALA:HB3	46:HN:58:ARG:HG2	1.95	0.48
45:IA:120:ASP:O	45:IA:124:LYS:HG3	2.14	0.48
46:IB:309:ARG:HH21	46:IB:342:VAL:HA	1.79	0.48
45:IC:296:PHE:HE2	45:IC:335:ILE:HG21	1.79	0.48
46:ID:130:LEU:HB3	46:ID:162:ARG:NH1	2.23	0.48
46:IF:139:LEU:HD22	46:IF:170:VAL:HG12	1.96	0.48
45:IG:107:HIS:ND1	45:IG:107:HIS:O	2.47	0.48
45:II:118:CYS:O	45:II:122:ILE:HG12	2.14	0.48
46:IJ:4:ILE:HG13	46:IJ:132:GLY:O	2.14	0.48
45:IK:183:GLU:N	45:IK:184:PRO:HD2	2.28	0.48
45:IM:22:GLU:HG2	45:IM:83:TYR:OH	2.13	0.48
46:JB:280:GLN:HG2	46:JB:281:TYR:HD2	1.78	0.48
45:JC:278:ALA:HA	45:JC:369:ALA:HB2	1.96	0.48
45:JE:112:LYS:HA	45:JE:115:VAL:HG22	1.95	0.48
45:JE:167:LEU:HD22	45:JE:200:VAL:HB	1.96	0.48
45:JE:271:SER:OG	45:JE:301:MET:SD	2.72	0.48
45:JG:183:GLU:N	45:JG:184:PRO:HD2	2.29	0.48
45:JG:244:PHE:HB2	45:JG:356:ASN:HD21	1.78	0.48
46:JH:133:PHE:HB2	46:JH:164:MET:SD	2.54	0.48
46:JH:322:SER:O	46:JH:325:GLU:HG2	2.13	0.48
45:JI:298:PRO:HG3	45:JI:308:ARG:NH2	2.29	0.48
46:JJ:304:ASP:OD2	46:JJ:306:ARG:HG2	2.14	0.48
46:JL:206:ALA:O	46:JL:210:ILE:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JM:8:HIS:CD2	45:JM:138:PHE:HD2	2.32	0.48
46:KD:210:ILE:N	46:KD:297:LYS:HZ1	2.12	0.48
45:KG:221:ARG:HA	46:KH:324:LYS:NZ	2.29	0.48
45:KM:88:HIS:O	45:KM:91:GLN:HG2	2.14	0.48
45:KM:183:GLU:N	45:KM:184:PRO:HD2	2.28	0.48
46:KN:406:MET:O	46:KN:409:THR:N	2.46	0.48
45:LC:174:SER:HB2	45:LC:177:VAL:O	2.14	0.48
46:LF:192:LEU:HD21	46:LF:199:CYS:SG	2.54	0.48
45:LI:17:GLY:HA2	45:LI:20:CYS:SG	2.54	0.48
46:LJ:248:SER:HA	46:LJ:252:LYS:HD2	1.96	0.48
45:LM:98:ASP:OD1	45:LM:99:ALA:N	2.46	0.48
46:MB:278:SER:HA	46:MB:281:TYR:HD1	1.79	0.48
45:ME:150:GLY:O	45:ME:154:LEU:HD23	2.13	0.48
46:MF:66:MET:HA	46:MF:91:VAL:HG23	1.95	0.48
45:MG:1:MET:SD	45:MG:1:MET:N	2.85	0.48
45:MI:217:LEU:HD12	45:MI:367:ASP:HB3	1.95	0.48
46:MJ:288:GLU:OE1	46:MJ:288:GLU:N	2.46	0.48
46:MJ:372:THR:HA	46:MJ:422:TYR:CE2	2.49	0.48
45:MK:208:ALA:O	45:MK:212:ILE:HG12	2.13	0.48
45:MK:258:ASN:HD21	46:MN:178:THR:HG23	1.78	0.48
45:MM:36:MET:SD	45:MM:37:PRO:HD2	2.54	0.48
46:NB:155:VAL:HA	46:NB:158:GLU:OE1	2.14	0.48
46:NH:122:LYS:HE3	46:NH:122:LYS:HB2	1.67	0.48
46:NJ:285:THR:N	46:NJ:288:GLU:OE2	2.30	0.48
46:NL:200:MET:SD	46:NL:268:ILE:HD13	2.53	0.48
45:OA:203:MET:HE2	45:OA:268:MET:C	2.34	0.48
45:OA:256:GLN:CD	45:OA:256:GLN:H	2.17	0.48
45:OC:21:TRP:CZ2	45:OC:65:ALA:HB2	2.49	0.48
46:ON:276:ARG:HA	46:ON:279:GLN:OE1	2.14	0.48
46:ON:297:LYS:HD3	46:ON:297:LYS:N	2.29	0.48
45:PA:229:ARG:HH12	45:PA:363:VAL:HG21	1.79	0.48
45:PA:316:SER:HA	45:PA:352:LYS:HB2	1.96	0.48
46:PD:165:GLU:OE2	46:PD:250:LEU:HD12	2.14	0.48
46:PD:379:LYS:O	46:PD:383:GLU:HG2	2.13	0.48
45:PE:261:PRO:HA	46:PH:394:PHE:CD1	2.49	0.48
45:PG:88:HIS:HB3	45:PG:91:GLN:HG2	1.94	0.48
45:PI:230:LEU:HD11	45:PI:275:ILE:HD13	1.96	0.48
46:PJ:154:LYS:HA	46:PJ:157:GLU:OE1	2.14	0.48
45:PK:76:ASP:HA	45:PK:79:ARG:HG2	1.96	0.48
46:PL:109:GLY:HA2	46:PL:112:LEU:HG	1.96	0.48
46:PL:312:THR:HG22	46:PL:370:ASN:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:18:ALA:O	46:PN:22:GLU:HG3	2.14	0.48
46:PN:105:HIS:CE1	46:PN:150:LEU:HD12	2.49	0.48
45:QA:172:TYR:CD2	45:QA:203:MET:HG3	2.48	0.48
46:QB:253:LEU:HD12	46:QB:257:LEU:HD13	1.96	0.48
46:QB:313:ALA:HB1	46:QB:367:PHE:CE1	2.49	0.48
45:QE:68:LEU:HD11	45:QE:118:CYS:SG	2.53	0.48
45:QG:19:ALA:HA	45:QG:22:GLU:OE1	2.14	0.48
45:QG:261:PRO:HA	46:QH:394:PHE:CD1	2.48	0.48
45:QG:318:MET:HB2	45:QG:376:CYS:SG	2.54	0.48
46:QJ:132:GLY:HA3	46:QJ:163:ILE:HG22	1.96	0.48
46:QL:152:ILE:HG22	46:QL:195:ASN:HD21	1.78	0.48
46:QL:321:MET:HG3	45:QM:221:ARG:HH22	1.79	0.48
46:RD:194:GLU:OE2	46:RD:414:ASN:ND2	2.45	0.48
45:RE:138:PHE:CD1	45:RE:169:PHE:HB2	2.48	0.48
46:RF:208:TYR:CE1	46:RF:225:LEU:HD11	2.48	0.48
45:RI:31:GLN:NE2	45:RI:35:GLN:O	2.47	0.48
45:RI:288:VAL:HA	45:RI:291:ILE:HG12	1.96	0.48
45:RI:402:ARG:HG2	45:RI:405:VAL:HG21	1.95	0.48
45:RK:206:ASN:HB3	45:RK:210:TYR:CE2	2.49	0.48
46:RL:286:VAL:HB	46:RL:325:GLU:HG2	1.96	0.48
45:RM:224:TYR:O	45:RM:227:LEU:HG	2.13	0.48
45:SA:171:ILE:HG23	45:SA:204:LEU:O	2.14	0.48
46:SD:324:LYS:O	46:SD:327:ASP:N	2.47	0.48
46:SF:68:LEU:HD13	46:SF:143:THR:OG1	2.13	0.48
46:SF:317:PHE:CD1	46:SF:365:VAL:HG22	2.48	0.48
46:SH:330:MET:SD	46:SH:349:ILE:HG21	2.54	0.48
46:SJ:86:ARG:NE	46:SJ:86:ARG:HA	2.28	0.48
46:SJ:173:PRO:CG	46:SJ:380:ARG:HE	2.26	0.48
45:SK:326:LYS:HD2	46:SL:212:PHE:HZ	1.79	0.48
46:SL:313:ALA:HB1	46:SL:367:PHE:CE1	2.47	0.48
46:SN:289:LEU:HD13	46:SN:365:VAL:HG23	1.95	0.48
45:TM:326:LYS:HG2	45:TM:327:ASP:N	2.29	0.48
45:TM:326:LYS:NZ	46:TN:219:THR:HA	2.28	0.48
46:UD:221:THR:HG23	46:UD:224:ASP:H	1.79	0.48
46:UH:341:PHE:CE2	46:UH:349:ILE:HD11	2.49	0.48
46:UL:167:PHE:HA	46:UL:200:MET:HB3	1.95	0.48
45:UM:107:HIS:ND1	45:UM:107:HIS:O	2.47	0.48
46:UN:145:SER:HB2	46:UN:188:SER:HB3	1.95	0.48
45:VC:231:ILE:O	45:VC:235:ILE:HG12	2.14	0.48
45:VE:141:VAL:HG11	45:VE:172:TYR:HD1	1.79	0.48
45:VG:347:CYS:HA	46:VJ:388:MET:HE1	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VI:269:LEU:HD23	45:VI:379:SER:O	2.14	0.48
45:VK:427:ALA:HA	45:VK:430:LYS:NZ	2.28	0.48
46:VL:3:GLU:OE1	46:VL:127:CYS:HB2	2.14	0.48
46:VL:139:LEU:HD22	46:VL:188:SER:OG	2.14	0.48
46:VN:49:VAL:HG12	46:VN:50:TYR:HD2	1.78	0.48
45:WE:398:MET:HE3	46:WF:345:ILE:HA	1.96	0.48
45:WK:205:ASP:HB2	45:WK:304:LYS:HZ3	1.78	0.48
45:WK:334:THR:O	45:WK:338:LYS:HG3	2.14	0.48
46:WL:299:MET:HG3	46:WL:305:PRO:HG3	1.96	0.48
46:WN:247:ASN:O	46:WN:252:LYS:NZ	2.39	0.48
45:DC:11:GLN:NE2	47:DC:501:GTP:O1A	2.47	0.48
45:DC:319:TYR:CD2	45:DC:323:VAL:HG21	2.48	0.48
2:0B:212:SER:N	45:JI:47:ASP:OD2	2.46	0.48
4:0D:20:LYS:NZ	46:CB:53:GLU:OE1	2.38	0.48
15:1X:99:VAL:HG22	45:MC:282:TYR:HE2	1.79	0.48
21:2L:525:LEU:HB2	46:BN:320:ARG:CZ	2.43	0.48
1:3A:39:TYR:CD2	45:MM:81:GLY:HA3	2.48	0.48
31:3I:252:ASP:H	45:FI:96:LYS:HE3	1.77	0.48
15:4X:27:PHE:O	15:4X:28:GLU:HG3	2.14	0.48
36:5D:80:ASN:O	36:5D:84:TYR:HD1	1.96	0.48
37:5H:11:TRP:HE3	37:5H:14:ARG:NH1	2.12	0.48
45:AA:271:SER:OG	45:AA:377:MET:HB3	2.13	0.48
45:AA:296:PHE:HE1	45:AA:377:MET:HG3	1.77	0.48
46:AD:16:ILE:HG21	46:AD:136:THR:HG21	1.96	0.48
46:AH:288:GLU:HA	46:AH:291:GLN:HG3	1.95	0.48
46:AJ:295:ASP:OD1	46:AJ:296:ALA:N	2.46	0.48
46:BB:287:PRO:HG3	46:BB:329:GLN:NE2	2.28	0.48
45:BC:419:SER:O	45:BC:422:ARG:N	2.47	0.48
46:BF:287:PRO:HG3	46:BF:329:GLN:NE2	2.29	0.48
45:BG:164:LYS:O	45:BG:166:LYS:NZ	2.47	0.48
46:BL:105:HIS:CD2	46:BL:150:LEU:HB2	2.48	0.48
45:CA:32:PRO:HB3	45:CA:83:TYR:HE1	1.78	0.48
46:CB:169:VAL:HG12	46:CB:202:ILE:HB	1.96	0.48
46:CH:63:ALA:O	46:CH:89:ASN:ND2	2.36	0.48
46:CJ:148:GLY:O	46:CJ:152:ILE:HG13	2.14	0.48
46:CJ:321:MET:HB2	45:CK:221:ARG:NH2	2.29	0.48
45:DE:288:VAL:HG11	45:DE:327:ASP:HB3	1.95	0.48
45:DG:30:ILE:HD11	45:DG:34:GLY:O	2.14	0.48
45:DG:251:ASP:HB3	45:DG:253:THR:HG22	1.96	0.48
45:DK:69:ASP:OD2	45:DK:70:LEU:N	2.46	0.48
46:DN:73:MET:HE3	46:DN:92:PHE:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EA:265:ILE:HG22	45:EA:380:ASN:HD21	1.78	0.48
45:EC:69:ASP:OD1	45:EC:70:LEU:N	2.47	0.48
45:EC:244:PHE:HB2	45:EC:356:ASN:HD21	1.79	0.48
45:EC:343:PHE:HZ	45:EC:351:PHE:HE1	1.62	0.48
46:EF:293:MET:HG3	46:EF:367:PHE:HB2	1.95	0.48
45:EG:205:ASP:OD1	45:EG:303:ALA:HA	2.14	0.48
46:EH:201:VAL:HG21	46:EH:374:ILE:HD11	1.96	0.48
45:EI:256:GLN:O	46:EJ:397:TRP:NE1	2.46	0.48
46:EJ:8:GLN:OE1	46:EJ:14:ASN:HA	2.14	0.48
45:EK:359:PRO:HB2	45:EK:370:LYS:HZ3	1.79	0.48
46:EL:174:LYS:HB2	46:EL:205:GLU:OE2	2.13	0.48
46:FB:3:GLU:OE2	46:FB:49:VAL:HA	2.14	0.48
45:FC:120:ASP:O	45:FC:124:LYS:HG2	2.14	0.48
46:FH:226:ASN:ND2	49:FH:501:GDP:HN1	2.12	0.48
45:FI:257:THR:HA	46:FL:397:TRP:CZ3	2.49	0.48
45:FI:414:GLU:CD	45:FI:416:GLY:H	2.17	0.48
45:FM:184:PRO:O	45:FM:188:ILE:HG12	2.14	0.48
46:GD:180:VAL:O	46:GD:180:VAL:HG12	2.14	0.48
45:GG:331:SER:O	45:GG:335:ILE:HG12	2.14	0.48
45:GG:332:ILE:HD12	45:GG:351:PHE:CD2	2.49	0.48
46:HB:289:LEU:HD11	46:HB:363:MET:HB3	1.95	0.48
46:HD:105:HIS:CE1	46:HD:150:LEU:HD12	2.49	0.48
46:HF:139:LEU:HD13	46:HF:168:SER:HB3	1.96	0.48
45:HI:183:GLU:N	45:HI:184:PRO:HD2	2.29	0.48
45:HI:188:ILE:HG12	45:HI:421:ALA:HB1	1.95	0.48
45:HK:2:ARG:O	45:HK:51:THR:HA	2.14	0.48
45:IA:152:LEU:O	45:IA:155:GLU:HG3	2.13	0.48
45:IE:97:GLU:CD	45:IE:105:ARG:HH12	2.17	0.48
45:IE:231:ILE:O	45:IE:235:ILE:HG12	2.14	0.48
45:IG:271:SER:HA	45:IG:302:MET:HE2	1.96	0.48
45:IM:205:ASP:OD1	45:IM:303:ALA:HA	2.14	0.48
45:IM:213:CYS:HA	45:IM:217:LEU:HB2	1.96	0.48
46:JB:263:LEU:HD11	46:JB:425:TYR:HE2	1.79	0.48
45:JG:286:LEU:HD13	45:JG:371:VAL:HG23	1.96	0.48
46:JL:232:ALA:O	46:JL:236:VAL:HG23	2.14	0.48
45:KC:188:ILE:HD12	45:KC:425:LEU:HG	1.96	0.48
45:KE:79:ARG:O	45:KE:84:ARG:HG2	2.13	0.48
45:KG:27:GLU:OE2	45:KG:243:ARG:NH1	2.47	0.48
45:KG:68:LEU:HD22	45:KG:153:LEU:HD11	1.95	0.48
46:KH:192:LEU:HD21	46:KH:199:CYS:SG	2.54	0.48
46:KH:336:LYS:HA	46:KH:336:LYS:HE2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KM:205:ASP:OD1	45:KM:303:ALA:HA	2.14	0.48
45:KM:360:PRO:O	45:KM:370:LYS:NZ	2.47	0.48
46:KN:232:ALA:HB1	46:KN:268:ILE:HD12	1.95	0.48
46:LB:150:LEU:O	46:LB:154:LYS:HG2	2.13	0.48
45:LE:135:PHE:CZ	45:LE:161:TYR:HE2	2.32	0.48
46:LF:285:THR:HB	46:LF:287:PRO:HD2	1.96	0.48
45:LG:377:MET:SD	45:LG:379:SER:HB3	2.54	0.48
45:LI:254:GLU:OE1	45:LI:257:THR:OG1	2.29	0.48
45:LK:329:ASN:HD21	46:LN:208:TYR:HE2	1.61	0.48
46:LL:31:ASP:OD2	46:LL:37:HIS:ND1	2.47	0.48
46:LL:99:ASN:HA	46:LL:142:GLY:H	1.78	0.48
45:MC:377:MET:SD	45:MC:379:SER:HB2	2.54	0.48
46:MN:268:ILE:HG22	46:MN:368:VAL:HG22	1.96	0.48
45:NA:398:MET:HE1	46:NB:346:PRO:HD2	1.96	0.48
45:NC:77:GLU:OE2	46:ND:243:PRO:HG3	2.14	0.48
45:NG:386:GLU:O	45:NG:390:ARG:HG2	2.14	0.48
45:NI:69:ASP:OD1	45:NI:70:LEU:N	2.47	0.48
45:NI:136:LEU:HD22	45:NI:169:PHE:HE2	1.79	0.48
46:NJ:201:VAL:O	46:NJ:202:ILE:HD13	2.14	0.48
45:NK:276:ILE:HD11	45:NK:283:HIS:CG	2.49	0.48
45:NM:328:VAL:O	45:NM:332:ILE:HG12	2.14	0.48
45:OE:328:VAL:O	45:OE:332:ILE:HG12	2.14	0.48
45:OG:311:LYS:HD2	45:OG:343:PHE:C	2.33	0.48
45:OI:183:GLU:N	45:OI:184:PRO:HD2	2.28	0.48
45:OK:89:PRO:HG2	45:PK:280:LYS:HD3	1.95	0.48
46:ON:105:HIS:CD2	46:ON:150:LEU:HB2	2.49	0.48
46:PB:100:ASN:HD22	46:PB:103:LYS:HB2	1.78	0.48
45:PE:399:TYR:O	45:PE:402:ARG:NH1	2.45	0.48
46:PH:153:SER:HB3	46:PH:154:LYS:NZ	2.29	0.48
46:PJ:105:HIS:CE1	46:PJ:150:LEU:HD12	2.49	0.48
46:PL:1:MET:N	46:PL:3:GLU:OE2	2.33	0.48
46:PN:274:THR:HG21	46:PN:282:ARG:NH2	2.28	0.48
45:QA:32:PRO:HB3	45:QA:83:TYR:HE1	1.79	0.48
45:QA:288:VAL:HG11	45:QA:327:ASP:HB3	1.96	0.48
46:QB:116:VAL:HA	46:QB:119:VAL:HG12	1.95	0.48
46:QH:65:LEU:HD22	46:QH:90:PHE:CE1	2.49	0.48
45:QM:79:ARG:NH2	45:QM:89:PRO:O	2.45	0.48
46:RF:20:PHE:CD2	46:RF:21:TRP:HD1	2.32	0.48
45:RG:263:PRO:HD3	46:RH:396:HIS:CE1	2.49	0.48
46:RH:139:LEU:HD13	46:RH:168:SER:HB3	1.95	0.48
45:RK:260:VAL:HG23	46:RL:397:TRP:HZ2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:322:SER:HB2	45:SC:222:PRO:O	2.14	0.48
45:SC:214:ARG:HA	45:SC:214:ARG:NH1	2.28	0.48
46:SH:208:TYR:HE1	46:SH:225:LEU:HD11	1.78	0.48
46:SJ:5:VAL:HG12	46:SJ:62:ARG:HD3	1.95	0.48
46:SJ:190:HIS:CE1	46:SJ:414:ASN:HD22	2.32	0.48
46:SN:237:THR:HG23	46:SN:241:ARG:HH21	1.77	0.48
46:TD:325:GLU:HA	46:TD:328:GLU:HG2	1.96	0.48
46:TD:372:THR:HA	46:TD:422:TYR:HE2	1.79	0.48
45:TE:3:GLU:OE2	45:TE:131:GLY:N	2.44	0.48
46:TJ:23:VAL:HG11	46:TJ:230:SER:HB3	1.96	0.48
46:TJ:154:LYS:HA	46:TJ:157:GLU:OE1	2.14	0.48
46:TL:377:MET:HE3	46:TL:377:MET:HA	1.96	0.48
46:UB:97:ALA:HB3	46:UB:143:THR:HB	1.95	0.48
46:UB:284:LEU:HA	46:UB:288:GLU:OE2	2.14	0.48
46:UH:290:THR:HA	46:UH:293:MET:HG2	1.95	0.48
45:UK:205:ASP:OD1	45:UK:303:ALA:HA	2.14	0.48
46:UN:87:PRO:HA	46:UN:90:PHE:CD2	2.47	0.48
45:VA:182:VAL:HG22	45:VA:185:TYR:HB2	1.94	0.48
46:VB:67:ASP:OD1	46:VB:68:LEU:N	2.46	0.48
46:VD:3:GLU:HB3	46:VD:49:VAL:HA	1.95	0.48
46:VD:9:GLY:HA2	46:VD:66:MET:O	2.14	0.48
46:VD:21:TRP:CZ2	46:VD:63:ALA:HB2	2.49	0.48
46:VD:54:ALA:HB3	46:VD:58:ARG:HG2	1.96	0.48
45:VE:223:THR:HA	46:VF:322:SER:HB2	1.95	0.48
45:VG:135:PHE:HB2	45:VG:166:LYS:HG2	1.96	0.48
46:VH:257:LEU:HD11	46:VH:314:SER:HB2	1.95	0.48
46:VJ:72:THR:O	46:VJ:75:SER:OG	2.24	0.48
46:VJ:406:MET:O	46:VJ:410:GLU:HG2	2.13	0.48
46:VL:20:PHE:O	46:VL:24:ILE:HG12	2.13	0.48
46:VL:282:ARG:HG2	46:VL:282:ARG:HH11	1.79	0.48
46:VL:322:SER:OG	46:VL:325:GLU:OE2	2.32	0.48
46:VL:342:VAL:HG13	46:VL:345:ILE:HG22	1.95	0.48
46:WB:222:TYR:O	46:WB:226:ASN:ND2	2.29	0.48
45:WE:231:ILE:O	45:WE:235:ILE:HG12	2.14	0.48
46:WF:170:VAL:HG22	46:WF:202:ILE:O	2.14	0.48
45:WG:251:ASP:OD2	45:WG:252:ILE:N	2.47	0.48
46:WJ:12:CYS:O	46:WJ:16:ILE:HG12	2.14	0.48
45:WK:261:PRO:HA	46:WN:394:PHE:CD2	2.49	0.48
46:WL:304:ASP:OD1	46:WL:306:ARG:NH1	2.46	0.48
45:WM:221:ARG:NH1	46:WN:325:GLU:OE1	2.46	0.48
46:WN:9:GLY:HA2	46:WN:66:MET:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WN:271:ALA:HB3	46:WN:365:VAL:HB	1.96	0.48
1:0A:103:GLN:NE2	34:7R:58:ARG:H	2.12	0.47
4:0D:177:THR:HG22	46:EB:48:ASN:OD1	2.13	0.47
18:1I:141:PHE:CE2	46:KF:43:GLN:HG3	2.49	0.47
21:2L:525:LEU:HB2	46:BN:320:ARG:NH1	2.27	0.47
25:2R:235:PHE:CE1	46:CH:216:LYS:HG3	2.48	0.47
12:2T:133:LYS:HE3	45:MG:127:ASP:O	2.14	0.47
26:2W:254:ARG:NH2	34:6R:21:LEU:HB2	2.29	0.47
36:5C:163:ALA:HB1	45:NK:279:GLU:O	2.14	0.47
37:5E:165:PRO:HD2	37:5E:166:ARG:HH11	1.78	0.47
34:5R:231:TYR:HA	34:5R:234:VAL:HG12	1.95	0.47
34:5R:264:ASP:HB3	34:5R:269:GLY:HA3	1.96	0.47
34:5R:322:THR:OG1	34:5R:324:LYS:HG2	2.14	0.47
35:5S:148:LYS:O	35:5S:152:THR:HG23	2.14	0.47
39:6F:43:GLU:OE1	39:6F:56:LEU:HA	2.13	0.47
40:6G:207:TYR:HD2	46:VF:306:ARG:HG3	1.79	0.47
41:6H:242:LYS:O	41:6H:244:SER:N	2.47	0.47
41:6H:352:LYS:HD2	41:6H:353:ALA:N	2.28	0.47
10:6Q:84:LYS:NZ	10:6Q:127:GLU:HG3	2.29	0.47
10:6Q:103:PHE:HE1	10:6Q:144:TYR:HE1	1.62	0.47
34:6R:318:TYR:OH	46:CN:274:THR:N	2.47	0.47
45:AC:2:ARG:HB3	45:AC:133:GLN:HE22	1.79	0.47
45:AC:141:VAL:HG11	45:AC:172:TYR:HA	1.94	0.47
46:AD:256:ASN:HD21	46:AD:350:LYS:HD3	1.78	0.47
46:AD:281:TYR:OH	46:MD:83:GLN:O	2.32	0.47
45:AE:256:GLN:OE1	45:AE:256:GLN:N	2.44	0.47
46:AF:190:HIS:CD2	46:AF:411:ALA:HA	2.49	0.47
45:AG:326:LYS:HD3	46:AJ:208:TYR:CD1	2.46	0.47
46:AL:281:TYR:OH	46:ML:83:GLN:O	2.25	0.47
45:AM:171:ILE:HG23	45:AM:204:LEU:O	2.14	0.47
45:AM:319:TYR:HB3	45:AM:323:VAL:HG11	1.96	0.47
45:BC:390:ARG:HG3	45:BC:390:ARG:HH11	1.79	0.47
46:BD:19:LYS:HG3	46:BD:226:ASN:HB3	1.95	0.47
46:BD:362:LYS:HA	46:BD:362:LYS:HE2	1.94	0.47
45:BG:183:GLU:N	45:BG:184:PRO:HD2	2.29	0.47
46:BH:166:THR:HG21	46:BH:192:LEU:HD11	1.96	0.47
45:BI:254:GLU:HA	45:BI:257:THR:HG23	1.95	0.47
46:BJ:257:LEU:HD11	46:BJ:314:SER:HB2	1.96	0.47
45:CG:187:SER:O	45:CG:191:THR:HG23	2.13	0.47
45:CG:328:VAL:O	45:CG:332:ILE:HD12	2.13	0.47
46:CH:306:ARG:NH1	46:CH:340:TYR:HD2	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:231:ILE:O	45:DA:235:ILE:HG12	2.14	0.47
46:DB:21:TRP:CZ2	46:DB:63:ALA:HB2	2.49	0.47
46:DD:323:THR:OG1	45:DE:210:TYR:OH	2.17	0.47
45:DE:271:SER:OG	45:DE:301:MET:HG2	2.14	0.47
46:DH:175:VAL:HG22	46:DH:205:GLU:HG3	1.96	0.47
45:DK:183:GLU:N	45:DK:184:PRO:HD2	2.29	0.47
46:EB:246:LEU:HD11	45:EC:224:TYR:HE2	1.78	0.47
46:EL:10:GLY:O	46:EL:14:ASN:ND2	2.47	0.47
45:EM:258:ASN:ND2	45:EM:352:LYS:HE3	2.29	0.47
46:FF:190:HIS:NE2	46:FF:410:GLU:OE1	2.47	0.47
45:FG:221:ARG:HH22	46:FH:321:MET:HB2	1.79	0.47
45:FG:265:ILE:HG22	45:FG:380:ASN:HD21	1.79	0.47
46:FL:3:GLU:H	46:FL:3:GLU:CD	2.18	0.47
46:FN:244:GLY:HA3	46:FN:354:CYS:HA	1.96	0.47
45:GC:68:LEU:HD21	45:GC:118:CYS:SG	2.54	0.47
45:GG:98:ASP:OD1	45:GG:99:ALA:N	2.47	0.47
45:HC:183:GLU:N	45:HC:184:PRO:HD2	2.28	0.47
46:HF:21:TRP:CZ3	46:HF:61:PRO:HB3	2.49	0.47
45:HM:11:GLN:HG3	45:HM:74:VAL:HG11	1.96	0.47
45:HM:119:LEU:HA	45:HM:122:ILE:HD12	1.95	0.47
46:HN:316:LEU:HD23	46:HN:352:SER:HB2	1.96	0.47
46:IB:47:ILE:HG12	46:IB:51:TYR:HB2	1.95	0.47
46:IB:136:THR:HG22	46:IB:167:PHE:HD2	1.79	0.47
46:IB:221:THR:HG23	46:IB:224:ASP:H	1.78	0.47
46:ID:164:MET:CE	46:ID:196:ALA:HA	2.44	0.47
46:IF:145:SER:OG	46:IF:188:SER:HB3	2.14	0.47
45:IG:252:ILE:HD12	45:IG:252:ILE:H	1.79	0.47
45:II:11:GLN:OE1	46:IJ:247:ASN:ND2	2.47	0.47
46:IJ:2:ARG:HB3	46:IJ:131:GLN:OE1	2.14	0.47
45:IK:208:ALA:O	45:IK:212:ILE:HG12	2.14	0.47
46:IL:65:LEU:HD22	46:IL:90:PHE:HE1	1.78	0.47
46:JH:86:ARG:NH2	46:JH:88:ASP:OD2	2.46	0.47
46:JJ:183:TYR:O	46:JJ:187:LEU:HD23	2.14	0.47
46:JN:5:VAL:HG11	46:JN:123:GLU:OE1	2.14	0.47
46:KB:114:ASP:OD1	46:KB:115:SER:N	2.46	0.47
46:KD:395:LEU:O	46:KD:399:THR:HG23	2.13	0.47
45:KE:296:PHE:HE1	45:KE:377:MET:SD	2.37	0.47
46:KF:135:ILE:O	46:KF:166:THR:HA	2.14	0.47
45:KG:89:PRO:HB2	45:LG:280:LYS:HE2	1.95	0.47
45:KK:224:TYR:HA	45:KK:227:LEU:HD12	1.95	0.47
46:KN:423:GLN:O	46:KN:426:GLN:HG3	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LA:223:THR:HG22	45:LA:224:TYR:H	1.79	0.47
46:LB:233:MET:O	46:LB:236:VAL:HG12	2.14	0.47
46:LF:173:PRO:HG2	46:LF:380:ARG:HD2	1.95	0.47
46:LN:337:ASN:HB3	46:LN:340:TYR:CD2	2.48	0.47
45:MA:328:VAL:HG11	45:MA:353:VAL:HG21	1.95	0.47
46:MD:190:HIS:CD2	46:MD:411:ALA:HA	2.49	0.47
45:MG:254:GLU:OE1	45:MG:258:ASN:ND2	2.45	0.47
45:MI:175:PRO:HG2	45:MI:176:GLN:OE1	2.15	0.47
46:ML:260:PHE:HB2	46:ML:263:LEU:HD13	1.95	0.47
45:MM:102:ASN:ND2	45:MM:105:ARG:HG3	2.28	0.47
45:NA:174:SER:HB2	45:NA:177:VAL:O	2.13	0.47
45:NI:221:ARG:NE	46:NJ:325:GLU:OE2	2.47	0.47
45:NK:186:ASN:OD1	45:NK:187:SER:N	2.47	0.47
45:NK:394:LYS:HZ1	46:NL:346:PRO:HG2	1.79	0.47
45:NM:19:ALA:O	45:NM:22:GLU:HG2	2.13	0.47
46:NN:42:LEU:HA	46:NN:45:GLU:HG2	1.96	0.47
45:OA:253:THR:HG23	46:OD:98:GLY:HA2	1.95	0.47
46:OD:182:PRO:HG2	46:OD:388:MET:HG3	1.95	0.47
46:OF:222:TYR:HD2	49:OF:502:GDP:C6	2.31	0.47
45:OG:224:TYR:HE2	47:OG:501:GTP:C5	2.31	0.47
46:OH:175:VAL:HG22	46:OH:205:GLU:CD	2.35	0.47
46:OH:326:VAL:O	46:OH:330:MET:HG2	2.13	0.47
45:OK:371:VAL:HG12	45:OK:373:ARG:H	1.79	0.47
46:OL:125:GLU:OE1	46:PL:336:LYS:NZ	2.37	0.47
46:PB:58:ARG:NH2	46:PB:84:LEU:HA	2.24	0.47
45:PC:175:PRO:HB2	45:PC:176:GLN:OE1	2.13	0.47
45:PC:242:LEU:HD11	45:PC:252:ILE:HG23	1.95	0.47
45:PC:286:LEU:O	45:PC:373:ARG:NH2	2.46	0.47
46:PD:389:PHE:HZ	46:PD:405:GLU:HB2	1.77	0.47
46:PF:69:GLU:O	46:PF:73:MET:HE1	2.14	0.47
45:PM:5:ILE:HG22	45:PM:64:ARG:HG2	1.96	0.47
45:QA:251:ASP:HB2	45:QA:254:GLU:HG3	1.95	0.47
45:QA:292:THR:HG21	45:QA:331:SER:HB3	1.96	0.47
46:QB:156:ARG:NH2	46:QB:160:PRO:O	2.47	0.47
45:QC:118:CYS:O	45:QC:122:ILE:HG12	2.14	0.47
45:QC:296:PHE:HE2	45:QC:335:ILE:HD13	1.78	0.47
45:QE:20:CYS:HA	45:QE:232:ALA:HB1	1.95	0.47
45:QE:70:LEU:HD13	45:QE:145:THR:OG1	2.13	0.47
46:QL:286:VAL:CG1	46:QL:287:PRO:HD3	2.44	0.47
45:QM:296:PHE:CE1	45:QM:377:MET:HG3	2.48	0.47
46:RB:175:VAL:HG22	46:RB:205:GLU:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RC:17:GLY:HA2	45:RC:20:CYS:SG	2.53	0.47
45:RE:9:VAL:HG22	45:RE:146:GLY:HA2	1.96	0.47
45:RI:265:ILE:HG12	45:RI:432:TYR:HE2	1.78	0.47
46:RJ:326:VAL:O	46:RJ:330:MET:HG2	2.14	0.47
45:RM:288:VAL:HA	45:RM:291:ILE:HG12	1.95	0.47
46:RN:201:VAL:HG23	46:RN:301:CYS:SG	2.54	0.47
45:SE:255:PHE:O	45:SE:259:LEU:HB2	2.14	0.47
45:SK:32:PRO:O	45:SK:85:GLN:NE2	2.47	0.47
46:TB:322:SER:OG	45:TC:221:ARG:NH1	2.47	0.47
46:TD:39:ASP:OD1	46:TD:40:SER:N	2.47	0.47
46:TF:67:ASP:OD1	46:TF:68:LEU:N	2.46	0.47
46:TF:318:ARG:HH11	46:TF:358:PRO:HG3	1.78	0.47
45:TG:261:PRO:HB2	45:TG:265:ILE:HD11	1.96	0.47
46:TJ:7:ILE:HG23	46:TJ:64:ILE:HB	1.96	0.47
46:TJ:362:LYS:N	46:TJ:362:LYS:HD2	2.29	0.47
46:TL:268:ILE:HG22	46:TL:368:VAL:HG22	1.96	0.47
45:TM:1:MET:O	45:TM:131:GLY:HA3	2.14	0.47
45:TM:288:VAL:HG12	45:TM:373:ARG:HE	1.77	0.47
45:UC:231:ILE:O	45:UC:235:ILE:HG12	2.14	0.47
46:UD:128:ASP:OD1	46:UD:129:CYS:N	2.46	0.47
46:UF:189:VAL:HA	46:UF:192:LEU:HB2	1.96	0.47
46:UF:226:ASN:ND2	49:UF:501:GDP:HN1	2.08	0.47
46:UF:260:PHE:HB2	46:UF:263:LEU:HD23	1.95	0.47
45:UI:55:GLU:O	45:VG:285:GLN:NE2	2.46	0.47
45:UI:352:LYS:HZ1	46:UJ:179:VAL:N	2.11	0.47
46:UJ:154:LYS:O	46:UJ:157:GLU:HG2	2.13	0.47
45:UK:19:ALA:HA	45:UK:22:GLU:OE1	2.14	0.47
45:UK:148:GLY:O	45:UK:152:LEU:HG	2.14	0.47
46:VB:119:VAL:HA	46:VB:122:LYS:HG2	1.96	0.47
46:VD:65:LEU:HD22	46:VD:90:PHE:CE1	2.48	0.47
46:VH:201:VAL:O	46:VH:202:ILE:HD13	2.14	0.47
45:VI:2:ARG:O	45:VI:51:THR:HA	2.14	0.47
45:VK:280:LYS:CG	45:VK:283:HIS:HB2	2.44	0.47
46:VL:52:ASN:OD1	46:VL:62:ARG:NH2	2.48	0.47
45:WA:33:ASP:HA	45:WA:85:GLN:HE21	1.79	0.47
45:WC:387:VAL:HA	45:WC:390:ARG:HG2	1.96	0.47
46:WD:252:LYS:O	46:WD:256:ASN:HB2	2.13	0.47
45:WE:27:GLU:HB3	45:WE:361:THR:HG21	1.96	0.47
45:WG:222:PRO:HG2	46:WH:324:LYS:HZ3	1.79	0.47
46:WH:45:GLU:O	46:WH:46:ARG:HD2	2.14	0.47
46:WH:105:HIS:CE1	46:WH:150:LEU:HD12	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:WJ:210:ILE:O	46:WJ:214:THR:HG22	2.14	0.47
46:WJ:215:LEU:O	46:WJ:215:LEU:HD23	2.13	0.47
45:WK:122:ILE:HG21	45:WK:157:LEU:HD11	1.95	0.47
45:WK:331:SER:O	45:WK:335:ILE:HG12	2.14	0.47
46:WL:73:MET:HE3	46:WL:92:PHE:HB3	1.96	0.47
20:1K:245:TRP:HH2	46:GB:279:GLN:HG2	1.76	0.47
11:1S:150:GLN:NE2	45:WC:162:GLY:HA3	2.29	0.47
15:1X:81:ARG:NH2	46:MF:276:ARG:HB2	2.24	0.47
1:2A:80:LYS:HD3	34:5R:73:PRO:HB2	1.96	0.47
4:2D:75:ASP:CA	46:EJ:362:LYS:HE3	2.43	0.47
31:2I:96:TRP:HA	46:FF:125:GLU:HG3	1.95	0.47
23:2O:394:GLU:OE1	46:VD:362:LYS:HE2	2.14	0.47
34:4R:379:LYS:NZ	34:4R:381:PHE:HE2	2.10	0.47
37:5E:164:LYS:H	37:5E:165:PRO:CD	2.27	0.47
34:7R:318:TYR:CE1	46:CB:273:LEU:HA	2.49	0.47
45:AC:377:MET:SD	45:AC:379:SER:HB3	2.54	0.47
45:AG:63:PRO:HG2	45:AG:86:LEU:HD21	1.95	0.47
45:AI:132:LEU:HG	45:AI:164:LYS:NZ	2.29	0.47
45:AI:265:ILE:HG13	45:AI:380:ASN:HD21	1.78	0.47
46:AL:116:VAL:O	46:AL:120:VAL:HG23	2.13	0.47
45:BA:221:ARG:NE	46:BB:322:SER:OG	2.24	0.47
45:BC:76:ASP:O	45:BC:80:THR:HG23	2.13	0.47
45:BK:326:LYS:HZ3	46:BN:208:TYR:HB3	1.79	0.47
46:BL:293:MET:HE2	46:BL:367:PHE:CD1	2.48	0.47
46:BN:409:THR:O	46:BN:412:GLU:HG3	2.13	0.47
45:CA:184:PRO:O	45:CA:188:ILE:HG12	2.14	0.47
45:CC:167:LEU:HG	45:CC:200:VAL:HB	1.95	0.47
46:CH:203:ASP:O	46:CH:207:LEU:HG	2.14	0.47
46:CL:99:ASN:HD22	46:CL:142:GLY:H	1.63	0.47
45:CM:384:ILE:O	45:CM:387:VAL:HG22	2.14	0.47
45:DA:141:VAL:HG22	45:DA:187:SER:HA	1.96	0.47
45:DA:346:TRP:CD1	46:DB:391:ARG:HG3	2.48	0.47
46:DH:238:CYS:SG	46:DH:239:CYS:N	2.88	0.47
45:DI:335:ILE:HA	45:DI:338:LYS:NZ	2.29	0.47
46:DN:54:ALA:HB3	46:DN:58:ARG:HG2	1.96	0.47
45:EA:188:ILE:HD11	45:EA:391:LEU:HB3	1.96	0.47
45:EA:322:ASP:OD1	45:EA:373:ARG:NH1	2.47	0.47
45:EC:189:LEU:HD11	45:EC:418:PHE:HE1	1.79	0.47
46:EH:375:GLN:HB2	46:EH:379:LYS:HZ2	1.80	0.47
45:EI:10:GLY:O	45:EI:14:ILE:HG12	2.14	0.47
45:EM:164:LYS:HA	45:EM:164:LYS:HD2	1.71	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EN:166:THR:HG21	46:EN:192:LEU:HD11	1.96	0.47
45:FG:88:HIS:ND1	45:FG:89:PRO:HD2	2.29	0.47
46:FJ:21:TRP:CZ3	46:FJ:61:PRO:HB3	2.49	0.47
45:FK:222:PRO:O	46:FL:322:SER:HB2	2.14	0.47
45:FK:256:GLN:NE2	45:FK:257:THR:HG23	2.29	0.47
46:FL:407:GLU:HA	46:FL:410:GLU:OE2	2.14	0.47
45:GG:377:MET:SD	45:GG:379:SER:HB3	2.54	0.47
46:GH:2:ARG:HG3	46:GH:240:LEU:HD11	1.95	0.47
45:GI:210:TYR:OH	46:GJ:323:THR:OG1	2.06	0.47
46:GN:190:HIS:HE1	46:GN:410:GLU:HG2	1.79	0.47
45:HE:430:LYS:O	45:HE:433:GLU:HG3	2.14	0.47
46:HH:226:ASN:HA	46:HH:229:VAL:HG12	1.96	0.47
46:HJ:293:MET:HE2	46:HJ:367:PHE:CD1	2.48	0.47
45:HK:89:PRO:HG2	45:IK:280:LYS:HB2	1.95	0.47
46:HL:3:GLU:H	46:HL:3:GLU:CD	2.16	0.47
45:IA:17:GLY:HA2	45:IA:20:CYS:SG	2.54	0.47
46:IB:316:LEU:HG	46:IB:352:SER:HB2	1.95	0.47
45:IC:272:TYR:HD2	45:IC:275:ILE:HD11	1.79	0.47
46:ID:208:TYR:CE2	46:ID:225:LEU:HD11	2.49	0.47
45:IE:48:ALA:HB1	45:IE:243:ARG:HB2	1.96	0.47
46:IF:284:LEU:HB2	46:IF:362:LYS:NZ	2.29	0.47
45:IG:101:ASN:OD1	46:IH:252:LYS:NZ	2.37	0.47
45:IG:286:LEU:HD11	45:IG:372:MET:HE1	1.95	0.47
45:JA:174:SER:HB2	45:JA:177:VAL:O	2.14	0.47
45:JG:147:SER:HB2	45:JG:190:SER:HB2	1.96	0.47
46:KB:304:ASP:OD2	46:KB:306:ARG:NH2	2.42	0.47
45:KE:210:TYR:CE1	45:KE:227:LEU:HD11	2.48	0.47
45:KG:88:HIS:CE1	45:KG:90:GLU:HG2	2.49	0.47
45:KG:244:PHE:HB2	45:KG:356:ASN:HD21	1.78	0.47
45:KG:256:GLN:HB3	46:KJ:397:TRP:CH2	2.49	0.47
46:KJ:86:ARG:HG3	46:KJ:87:PRO:HD2	1.96	0.47
46:KJ:405:GLU:HA	46:KJ:408:PHE:HD2	1.79	0.47
45:KK:269:LEU:HD23	45:KK:384:ILE:HD11	1.95	0.47
46:KN:12:CYS:O	46:KN:16:ILE:HG12	2.14	0.47
46:KN:316:LEU:HD13	46:KN:352:SER:OG	2.13	0.47
45:LI:72:PRO:HD2	46:LJ:2:ARG:NH2	2.29	0.47
45:LI:319:TYR:HB3	45:LI:323:VAL:HG21	1.96	0.47
45:LK:180:ALA:HB3	45:LK:183:GLU:HG3	1.96	0.47
45:LM:150:GLY:O	45:LM:154:LEU:HG	2.14	0.47
45:MC:1:MET:SD	45:MC:1:MET:N	2.83	0.47
45:ME:262:TYR:OH	46:MH:391:ARG:O	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MG:71:GLU:OE2	46:MH:2:ARG:NH2	2.47	0.47
45:MI:265:ILE:HD11	45:MI:435:VAL:HG21	1.96	0.47
46:MJ:134:GLN:HA	46:MJ:165:GLU:O	2.14	0.47
46:MN:66:MET:HA	46:MN:91:VAL:HG23	1.96	0.47
45:NA:180:ALA:HA	46:NB:350:LYS:NZ	2.29	0.47
45:NA:268:MET:HG3	45:NA:380:ASN:HB2	1.96	0.47
46:NF:208:TYR:HE1	46:NF:225:LEU:HD11	1.79	0.47
45:NI:113:GLU:OE1	45:NI:113:GLU:N	2.47	0.47
45:OA:93:ILE:HD11	45:OA:121:ARG:HG3	1.95	0.47
46:OB:22:GLU:OE2	46:OB:81:PHE:HB2	2.13	0.47
45:OC:36:MET:SD	45:OC:37:PRO:HD2	2.55	0.47
45:OC:256:GLN:HG2	46:OF:397:TRP:CH2	2.48	0.47
45:OE:3:GLU:HG3	45:OE:129:CYS:SG	2.54	0.47
45:OE:224:TYR:HD1	47:OF:501:GTP:C6	2.32	0.47
45:OG:141:VAL:HG11	45:OG:172:TYR:HD1	1.78	0.47
45:OG:169:PHE:CE2	45:OG:235:ILE:HD12	2.49	0.47
45:OI:250:VAL:HG13	45:OI:254:GLU:HB2	1.95	0.47
46:OJ:248:SER:HA	46:OJ:252:LYS:HD2	1.96	0.47
46:OJ:404:ASP:N	46:OJ:404:ASP:OD1	2.47	0.47
46:ON:20:PHE:O	46:ON:24:ILE:HD12	2.14	0.47
45:PA:308:ARG:NH1	45:PA:340:THR:O	2.48	0.47
46:PH:294:PHE:CE2	46:PH:333:VAL:HG11	2.47	0.47
45:PI:121:ARG:HA	45:PI:121:ARG:NH1	2.30	0.47
46:PJ:113:ILE:HD13	46:PJ:150:LEU:HD22	1.96	0.47
46:PJ:376:GLU:HA	46:PJ:379:LYS:HG2	1.95	0.47
46:PL:68:LEU:HD13	46:PL:93:GLY:HA3	1.95	0.47
46:PL:205:GLU:HG2	46:PL:206:ALA:N	2.29	0.47
46:PL:406:MET:O	46:PL:410:GLU:HG2	2.13	0.47
46:PN:165:GLU:HG2	46:PN:250:LEU:HD21	1.96	0.47
46:PN:403:MET:HE1	46:PN:407:GLU:HB2	1.95	0.47
46:QB:221:THR:HG23	46:QB:224:ASP:H	1.78	0.47
45:QC:56:THR:HG21	45:QC:60:LYS:HG3	1.96	0.47
45:QE:317:MET:N	45:QE:317:MET:SD	2.87	0.47
46:QF:66:MET:CE	46:QF:116:VAL:HG21	2.44	0.47
46:QF:66:MET:HE2	46:QF:116:VAL:HG21	1.96	0.47
45:QG:141:VAL:HG11	45:QG:172:TYR:CD1	2.49	0.47
45:QI:268:MET:HE2	45:QI:378:ILE:HG22	1.96	0.47
46:QJ:325:GLU:HA	46:QJ:328:GLU:HB3	1.96	0.47
46:QL:86:ARG:HH21	46:QL:87:PRO:CG	2.22	0.47
45:RC:133:GLN:O	45:RC:164:LYS:NZ	2.46	0.47
45:RC:284:GLU:HG2	45:RC:286:LEU:HD22	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RC:401:LYS:HB2	45:RC:401:LYS:HE3	1.71	0.47
45:RC:417:GLU:HA	45:RC:420:GLU:CD	2.35	0.47
45:RE:252:ILE:HD12	45:RE:252:ILE:H	1.79	0.47
46:RH:11:GLN:HE21	49:RH:501:GDP:PA	2.37	0.47
46:RH:420:SER:O	46:RH:423:GLN:HG3	2.13	0.47
45:RI:211:ASP:O	45:RI:215:ARG:HG3	2.14	0.47
45:RK:112:LYS:HA	45:RK:115:VAL:HG12	1.96	0.47
45:RK:141:VAL:HG12	45:RK:171:ILE:O	2.13	0.47
45:RM:70:LEU:HA	45:RM:95:GLY:H	1.78	0.47
45:RM:174:SER:HB2	45:RM:177:VAL:O	2.14	0.47
45:SA:334:THR:O	45:SA:338:LYS:HG2	2.15	0.47
46:SB:39:ASP:OD1	46:SB:40:SER:N	2.47	0.47
46:SB:137:HIS:CD2	46:SB:148:GLY:HA3	2.49	0.47
46:SF:3:GLU:CD	46:SF:49:VAL:HA	2.35	0.47
45:SG:248:LEU:HB2	45:SG:355:ILE:HG12	1.95	0.47
46:SH:257:LEU:HD21	46:SH:314:SER:HB2	1.96	0.47
45:SK:3:GLU:O	45:SK:133:GLN:N	2.36	0.47
45:SK:9:VAL:HG12	45:SK:68:LEU:HB2	1.95	0.47
46:SL:344:TRP:CZ3	45:SM:401:LYS:HD2	2.49	0.47
45:SM:242:LEU:HD11	45:SM:252:ILE:HG13	1.95	0.47
46:TB:1:MET:SD	46:TB:1:MET:N	2.88	0.47
46:TF:130:LEU:HB3	46:TF:162:ARG:HD2	1.95	0.47
46:TH:97:ALA:C	46:TH:103:LYS:HZ1	2.17	0.47
46:TJ:383:GLU:HA	46:TJ:386:THR:HG22	1.95	0.47
45:TK:276:ILE:HD11	45:TK:280:LYS:HG3	1.95	0.47
46:UB:86:ARG:NE	46:UB:88:ASP:HB3	2.30	0.47
45:UC:207:GLU:HB3	45:UC:304:LYS:HE2	1.95	0.47
45:UG:183:GLU:N	45:UG:184:PRO:HD2	2.29	0.47
46:UH:6:HIS:O	46:UH:63:ALA:HA	2.14	0.47
45:UI:217:LEU:HB3	45:UI:219:ILE:HG12	1.96	0.47
46:UJ:113:ILE:HD13	46:UJ:150:LEU:HD22	1.94	0.47
45:UM:1:MET:O	45:UM:131:GLY:HA3	2.14	0.47
45:UM:346:TRP:HA	46:UN:390:ARG:HH12	1.78	0.47
46:UN:11:GLN:O	46:UN:15:GLN:HG2	2.13	0.47
46:VB:175:VAL:HG22	46:VB:205:GLU:OE2	2.14	0.47
45:VC:174:SER:OG	45:VC:206:ASN:OD1	2.32	0.47
45:VC:352:LYS:HB2	45:VC:352:LYS:HE2	1.67	0.47
46:VD:16:ILE:HD12	46:VD:229:VAL:HG11	1.95	0.47
45:VE:205:ASP:HB3	45:VE:303:ALA:HA	1.95	0.47
45:VE:384:ILE:O	45:VE:387:VAL:HG22	2.14	0.47
46:VF:70:PRO:HA	46:VF:73:MET:SD	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VF:299:MET:HE2	46:VF:305:PRO:HG3	1.95	0.47
45:VG:183:GLU:N	45:VG:184:PRO:HD2	2.28	0.47
45:VG:260:VAL:H	46:VJ:397:TRP:HH2	1.62	0.47
45:VG:331:SER:O	45:VG:335:ILE:HG12	2.14	0.47
45:VI:88:HIS:CE1	45:VI:90:GLU:HG3	2.48	0.47
45:VI:271:SER:OG	45:VI:301:MET:HG2	2.14	0.47
45:VI:329:ASN:HA	45:VI:332:ILE:HG22	1.96	0.47
46:VJ:83:GLN:HE21	46:VJ:84:LEU:HD12	1.79	0.47
46:VJ:216:LYS:O	46:VJ:216:LYS:HG2	2.13	0.47
45:VM:288:VAL:HG11	45:VM:327:ASP:HB3	1.96	0.47
45:WA:51:THR:HG21	45:WA:243:ARG:HB3	1.96	0.47
46:WB:5:VAL:HG11	46:WB:123:GLU:HB3	1.95	0.47
46:WB:150:LEU:HB2	46:WB:154:LYS:HZ3	1.79	0.47
45:WC:133:GLN:NE2	45:WC:242:LEU:HD21	2.27	0.47
45:WC:334:THR:C	45:WC:338:LYS:HZ3	2.17	0.47
45:WE:227:LEU:O	45:WE:231:ILE:HG12	2.14	0.47
46:WH:344:TRP:HE3	46:WH:345:ILE:HG23	1.78	0.47
45:WI:69:ASP:OD2	45:WI:75:ILE:HG12	2.13	0.47
45:WK:252:ILE:HA	45:WK:255:PHE:CD1	2.49	0.47
45:WK:319:TYR:HB3	45:WK:323:VAL:HG11	1.96	0.47
46:WL:285:THR:O	46:WL:289:LEU:HD23	2.13	0.47
46:WN:68:LEU:HD21	46:WN:108:GLU:HG2	1.96	0.47
45:CE:67:PHE:HE2	45:CE:87:PHE:CE2	2.32	0.47
1:0A:136:ASN:ND2	46:AB:245:GLN:HE22	2.10	0.47
4:0D:47:SER:HA	46:DB:53:GLU:HG2	1.96	0.47
4:0D:171:LEU:HD12	45:EC:89:PRO:HB3	1.95	0.47
25:2R:29:LYS:HZ1	45:MG:47:ASP:N	2.12	0.47
16:3B:1:MET:HE3	46:LH:357:PRO:HG2	1.96	0.47
16:3B:62:THR:HA	45:LG:84:ARG:NH2	2.27	0.47
15:3X:45:GLN:NE2	45:MM:282:TYR:CG	2.82	0.47
34:4R:13:PRO:HA	46:LF:227:HIS:ND1	2.29	0.47
35:4S:144:ILE:O	35:4S:148:LYS:HG2	2.14	0.47
36:5D:97:LYS:HD2	36:5D:108:ARG:HG3	1.95	0.47
34:5R:487:GLU:HB3	34:5R:523:PHE:CZ	2.49	0.47
34:5R:574:ARG:HA	34:5R:574:ARG:CZ	2.44	0.47
39:6F:62:GLN:HG2	45:IE:84:ARG:HH22	1.78	0.47
34:7R:174:PHE:CE2	46:AD:80:PRO:HB3	2.48	0.47
34:7R:183:CYS:SG	34:7R:188:LYS:NZ	2.82	0.47
45:AA:288:VAL:HA	45:AA:291:ILE:HG22	1.97	0.47
46:AB:40:SER:H	46:AB:43:GLN:NE2	2.12	0.47
45:AC:222:PRO:HD2	46:AD:324:LYS:CG	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AE:239:THR:HG23	45:AE:243:ARG:NH1	2.28	0.47
46:AF:32:PRO:HA	46:AF:84:LEU:HD11	1.95	0.47
46:AF:200:MET:CE	46:AF:268:ILE:HG21	2.44	0.47
46:AF:341:PHE:HB3	46:AF:348:ASN:HD21	1.79	0.47
46:AH:286:VAL:HG21	46:AH:325:GLU:OE2	2.14	0.47
45:AI:220:GLU:CD	45:AI:220:GLU:H	2.18	0.47
45:AM:101:ASN:OD1	45:AM:143:GLY:HA2	2.14	0.47
45:AM:322:ASP:OD1	45:AM:373:ARG:NH1	2.43	0.47
46:AN:387:ALA:HA	46:AN:390:ARG:HH11	1.79	0.47
46:BD:237:THR:HG22	46:BD:250:LEU:HD21	1.97	0.47
46:BF:389:PHE:HZ	46:BF:405:GLU:HG3	1.79	0.47
46:BH:325:GLU:O	46:BH:329:GLN:HG3	2.14	0.47
45:BK:324:VAL:HG11	46:BN:219:THR:OG1	2.14	0.47
45:CA:268:MET:CE	45:CA:378:ILE:HG13	2.44	0.47
46:CD:201:VAL:HG22	46:CD:266:PHE:O	2.14	0.47
46:CF:251:ARG:NH2	45:CG:105:ARG:HH21	2.12	0.47
45:CI:356:ASN:OD1	45:CI:357:TYR:N	2.47	0.47
46:CL:398:TYR:O	46:CL:403:MET:HB2	2.14	0.47
46:CL:409:THR:O	46:CL:412:GLU:HG3	2.13	0.47
46:DB:167:PHE:HE2	46:DB:200:MET:HG3	1.79	0.47
45:DE:21:TRP:CZ2	45:DE:65:ALA:HB2	2.49	0.47
46:DF:324:LYS:NZ	45:DG:210:TYR:CG	2.81	0.47
46:DJ:65:LEU:HD12	46:DJ:90:PHE:CE1	2.50	0.47
46:DJ:101:TRP:HB2	46:DJ:184:ASN:HB3	1.96	0.47
45:DK:102:ASN:ND2	45:DK:407:TRP:O	2.47	0.47
46:DL:169:VAL:HG12	46:DL:202:ILE:HB	1.95	0.47
45:DM:223:THR:HG23	45:DM:225:THR:H	1.78	0.47
46:EB:325:GLU:OE1	45:EC:221:ARG:HA	2.14	0.47
46:ED:139:LEU:HD22	46:ED:170:VAL:HG12	1.95	0.47
45:EE:259:LEU:HD21	45:EE:316:SER:HB2	1.97	0.47
45:EG:280:LYS:HA	45:EG:283:HIS:HD2	1.79	0.47
45:EI:102:ASN:ND2	45:EI:105:ARG:HG3	2.29	0.47
46:EL:133:PHE:HB2	46:EL:164:MET:HE2	1.96	0.47
46:EL:222:TYR:CD1	49:EL:501:GDP:C6	3.02	0.47
45:FA:326:LYS:HD3	46:FD:208:TYR:CE1	2.48	0.47
46:FJ:58:ARG:HH12	46:GJ:280:GLN:NE2	2.12	0.47
46:FJ:150:LEU:HD21	46:FJ:154:LYS:HZ2	1.79	0.47
46:FL:7:ILE:HD12	46:FL:64:ILE:HB	1.96	0.47
46:FL:289:LEU:HD13	46:FL:365:VAL:HG23	1.96	0.47
46:GD:21:TRP:CZ3	46:GD:61:PRO:HB3	2.50	0.47
45:GE:53:PHE:O	45:GE:64:ARG:NE	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GE:107:HIS:ND1	45:GE:107:HIS:O	2.47	0.47
46:HB:38:GLY:HA3	46:HB:43:GLN:NE2	2.29	0.47
46:HD:210:ILE:O	46:HD:214:THR:OG1	2.29	0.47
46:HJ:18:ALA:O	46:HJ:22:GLU:HG3	2.14	0.47
45:HM:398:MET:HE3	46:HN:346:PRO:HD2	1.96	0.47
46:HN:97:ALA:HB3	46:HN:143:THR:HB	1.97	0.47
45:II:326:LYS:HZ2	46:IL:212:PHE:HB2	1.79	0.47
46:IJ:210:ILE:HD11	46:IJ:298:ASN:HA	1.95	0.47
45:JA:258:ASN:OD1	46:JD:179:VAL:HG22	2.13	0.47
45:JI:96:LYS:HE2	45:JI:96:LYS:HA	1.95	0.47
46:JN:245:GLN:OE1	46:JN:246:LEU:HG	2.15	0.47
46:KB:374:ILE:O	46:KB:377:MET:HG3	2.15	0.47
45:KC:11:GLN:HG2	45:KC:74:VAL:HG11	1.95	0.47
45:KI:346:TRP:CD1	46:KL:391:ARG:HG3	2.48	0.47
45:KK:262:TYR:HD2	45:KK:265:ILE:HD11	1.79	0.47
46:KL:206:ALA:O	46:KL:210:ILE:HG12	2.14	0.47
46:KL:386:THR:O	46:KL:390:ARG:HG3	2.14	0.47
46:LB:91:VAL:HG21	46:LB:116:VAL:HB	1.96	0.47
45:LC:221:ARG:HH12	46:LD:322:SER:H	1.62	0.47
45:LC:324:VAL:HG23	45:LC:327:ASP:H	1.79	0.47
46:LD:11:GLN:O	46:LD:15:GLN:HG2	2.13	0.47
46:LD:159:TYR:HB3	46:LD:162:ARG:HG3	1.96	0.47
46:LJ:36:TYR:CZ	46:LJ:44:LEU:HD21	2.49	0.47
46:LJ:186:THR:HG23	46:LJ:187:LEU:HD12	1.96	0.47
45:LK:11:GLN:NE2	45:LK:15:GLN:HE21	2.12	0.47
45:LK:31:GLN:HG2	45:LK:35:GLN:O	2.15	0.47
46:LL:203:ASP:OD2	46:LL:302:ALA:N	2.36	0.47
45:LM:209:ILE:HD11	45:LM:230:LEU:HB2	1.96	0.47
45:MC:56:THR:HG23	45:MC:58:ALA:H	1.79	0.47
46:MD:201:VAL:HG23	46:MD:301:CYS:SG	2.53	0.47
45:MI:288:VAL:HG11	45:MI:327:ASP:HB3	1.95	0.47
45:MK:260:VAL:HB	46:MN:397:TRP:CH2	2.49	0.47
46:ML:178:THR:HB	46:ML:181:GLU:HG3	1.96	0.47
46:MN:68:LEU:HD23	46:MN:143:THR:OG1	2.14	0.47
46:NB:152:ILE:HG22	46:NB:195:ASN:HB3	1.95	0.47
46:NB:285:THR:OG1	46:NB:288:GLU:OE1	2.24	0.47
45:NG:12:GLY:HA2	45:NG:15:GLN:NE2	2.30	0.47
45:NG:113:GLU:N	45:NG:113:GLU:OE1	2.44	0.47
45:NI:332:ILE:HD12	45:NI:351:PHE:CD2	2.49	0.47
45:NK:9:VAL:HG13	45:NK:139:ASN:HB3	1.97	0.47
46:NL:117:LEU:O	46:NL:121:ARG:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:229:ARG:HH12	45:NM:367:ASP:H	1.62	0.47
46:NN:148:GLY:O	46:NN:152:ILE:HG12	2.14	0.47
46:OB:54:ALA:HA	46:PB:283:ALA:HB2	1.94	0.47
45:OE:152:LEU:O	45:OE:155:GLU:HG3	2.14	0.47
46:OL:213:ARG:HD3	46:OL:297:LYS:HZ1	1.79	0.47
45:OM:183:GLU:N	45:OM:184:PRO:HD2	2.28	0.47
45:OM:297:GLU:HB2	45:OM:300:ASN:ND2	2.29	0.47
46:ON:238:CYS:SG	46:ON:241:ARG:NH2	2.87	0.47
45:PA:328:VAL:O	45:PA:332:ILE:HG12	2.14	0.47
45:PC:352:LYS:NZ	46:PF:178:THR:HA	2.29	0.47
46:PF:201:VAL:HG23	46:PF:301:CYS:SG	2.53	0.47
45:PI:87:PHE:HB3	45:PI:92:LEU:HD21	1.95	0.47
46:PJ:139:LEU:HD22	46:PJ:188:SER:OG	2.14	0.47
46:QD:42:LEU:HD13	46:QD:356:ILE:HD11	1.95	0.47
45:QE:288:VAL:HG11	45:QE:323:VAL:HG23	1.96	0.47
46:QF:116:VAL:HA	46:QF:119:VAL:HG22	1.96	0.47
46:QH:106:TYR:HE2	46:QH:403:MET:SD	2.37	0.47
46:QH:346:PRO:HG2	45:QI:394:LYS:NZ	2.29	0.47
46:QJ:156:ARG:NH1	46:QJ:159:TYR:O	2.47	0.47
46:RB:32:PRO:HG3	46:RB:81:PHE:CE2	2.49	0.47
45:RG:265:ILE:O	45:RG:265:ILE:HG13	2.14	0.47
46:RH:249:ASP:OD1	46:RH:252:LYS:N	2.39	0.47
46:RJ:9:GLY:HA2	46:RJ:66:MET:O	2.14	0.47
45:RM:121:ARG:HA	45:RM:121:ARG:NH1	2.29	0.47
45:SG:20:CYS:O	45:SG:24:PHE:HD1	1.96	0.47
45:SG:21:TRP:CH2	45:SG:63:PRO:HB3	2.49	0.47
45:SK:164:LYS:NZ	45:SK:165:SER:OG	2.48	0.47
45:SM:324:VAL:HG12	45:SM:326:LYS:HG3	1.95	0.47
46:SN:86:ARG:NE	46:SN:87:PRO:HD2	2.28	0.47
46:TB:27:GLU:OE2	46:TB:241:ARG:NH2	2.47	0.47
45:TI:184:PRO:O	45:TI:188:ILE:HG12	2.15	0.47
45:TI:362:VAL:HG22	45:TI:370:LYS:HD2	1.94	0.47
46:TL:116:VAL:O	46:TL:119:VAL:HG12	2.14	0.47
46:TN:86:ARG:NH2	46:UN:278:SER:OG	2.45	0.47
45:UA:109:THR:HG22	45:UA:110:ILE:HG23	1.96	0.47
46:UB:116:VAL:O	46:UB:120:VAL:HG22	2.14	0.47
46:UF:3:GLU:HA	46:UF:49:VAL:HA	1.97	0.47
46:UF:154:LYS:O	46:UF:157:GLU:HG2	2.14	0.47
46:UF:342:VAL:HG13	46:UF:345:ILE:HG22	1.96	0.47
46:UH:180:VAL:HG12	46:UH:180:VAL:O	2.14	0.47
46:UL:5:VAL:HA	46:UL:62:ARG:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:105:HIS:CE1	46:UN:150:LEU:HD12	2.49	0.47
45:VA:88:HIS:O	45:VA:91:GLN:HG2	2.14	0.47
45:VC:328:VAL:O	45:VC:332:ILE:HG12	2.14	0.47
46:VD:253:LEU:O	46:VD:257:LEU:HB2	2.14	0.47
46:VF:389:PHE:CZ	46:VF:405:GLU:HG3	2.47	0.47
45:VG:89:PRO:HD3	45:WG:280:LYS:HZ3	1.78	0.47
45:VG:163:LYS:HD3	45:VG:163:LYS:N	2.29	0.47
45:VG:221:ARG:HH12	46:VH:325:GLU:H	1.62	0.47
46:VH:417:ASP:O	46:VH:421:GLU:HG2	2.14	0.47
45:VK:22:GLU:HG3	45:VK:83:TYR:HE1	1.78	0.47
46:VL:404:ASP:OD1	46:VL:406:MET:HG3	2.14	0.47
46:VN:101:TRP:CE3	46:VN:187:LEU:HD13	2.48	0.47
46:VN:152:ILE:HD12	46:VN:164:MET:HE3	1.95	0.47
46:VN:187:LEU:HD11	46:VN:408:PHE:HE1	1.80	0.47
45:WA:235:ILE:O	45:WA:238:LEU:HG	2.14	0.47
46:WB:310:TYR:CD1	46:WB:371:SER:HB2	2.49	0.47
46:WD:8:GLN:HE21	46:WD:65:LEU:HD22	1.80	0.47
46:WD:114:ASP:OD1	46:WD:115:SER:N	2.47	0.47
45:WE:215:ARG:NH1	45:WE:299:ALA:HB1	2.27	0.47
45:WI:21:TRP:CH2	45:WI:63:PRO:HB3	2.49	0.47
45:WI:22:GLU:OE2	45:WI:83:TYR:HE2	1.96	0.47
46:WJ:6:HIS:HD1	46:WJ:21:TRP:HE1	1.62	0.47
45:WK:250:VAL:HG13	45:WK:254:GLU:HB2	1.96	0.47
45:WK:319:TYR:CE2	45:WK:328:VAL:HG22	2.48	0.47
45:WM:141:VAL:HG12	45:WM:171:ILE:O	2.13	0.47
45:DC:141:VAL:HG11	45:DC:172:TYR:CD1	2.49	0.47
45:DC:223:THR:HG23	45:DC:225:THR:H	1.79	0.47
45:DC:310:GLY:HA3	45:DC:383:ALA:HB2	1.96	0.47
6:0F:86:ARG:HH21	45:EE:82:THR:HB	1.79	0.47
18:1I:89:THR:HG21	46:JD:320:ARG:NH2	2.28	0.47
28:2F:79:CYS:HA	46:HF:332:ASN:ND2	2.27	0.47
21:2L:525:LEU:HD23	46:BN:362:LYS:HB3	1.95	0.47
12:2T:147:PHE:HZ	46:MJ:107:THR:HA	1.78	0.47
1:3A:71:TYR:HA	45:AM:221:ARG:NH1	2.30	0.47
35:4S:121:ASP:O	35:4S:125:GLU:HG2	2.14	0.47
36:5A:24:GLY:HA3	36:5A:26:LYS:NZ	2.28	0.47
37:5H:95:ASP:O	37:5H:99:ARG:HG2	2.14	0.47
34:5R:110:ASN:OD1	34:5R:111:TYR:HD2	1.97	0.47
34:5R:527:ASP:O	34:5R:531:THR:HG23	2.14	0.47
34:7R:302:LEU:O	46:CB:77:ARG:NH1	2.45	0.47
34:7R:389:ASN:H	46:EB:276:ARG:HH12	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BA:141:VAL:HG12	45:BA:171:ILE:O	2.15	0.47
45:BA:296:PHE:CE2	45:BA:377:MET:HE3	2.49	0.47
45:BA:352:LYS:HD2	46:BD:177:ASP:O	2.14	0.47
46:BB:226:ASN:HA	46:BB:229:VAL:HG12	1.97	0.47
45:BE:98:ASP:OD2	45:BE:99:ALA:N	2.48	0.47
46:BL:190:HIS:CD2	46:BL:411:ALA:HA	2.49	0.47
45:CC:200:VAL:HG13	45:CC:268:MET:CE	2.45	0.47
46:CD:251:ARG:HH21	45:CE:105:ARG:HD2	1.79	0.47
46:CF:406:MET:O	46:CF:410:GLU:HG2	2.15	0.47
45:CG:109:THR:HG22	45:CG:110:ILE:HG23	1.96	0.47
46:CH:248:SER:HA	46:CH:252:LYS:HE2	1.96	0.47
45:CI:128:ASN:CG	45:DI:285:GLN:HE22	2.18	0.47
46:CJ:65:LEU:HD22	46:CJ:90:PHE:CE1	2.49	0.47
45:CK:17:GLY:HA2	45:CK:20:CYS:SG	2.55	0.47
45:CK:180:ALA:HB3	45:CK:183:GLU:HG3	1.96	0.47
46:DB:47:ILE:HD12	46:DB:59:TYR:CE1	2.49	0.47
46:DB:105:HIS:CE1	46:DB:150:LEU:HD12	2.48	0.47
46:DB:318:ARG:HH11	46:DB:358:PRO:HG3	1.79	0.47
45:DI:188:ILE:HG23	45:DI:425:LEU:HD11	1.97	0.47
45:DI:265:ILE:HG22	45:DI:380:ASN:HD21	1.78	0.47
46:DL:20:PHE:O	46:DL:24:ILE:HG12	2.14	0.47
45:EA:101:ASN:HA	45:EA:144:GLY:H	1.80	0.47
45:EC:265:ILE:HG12	45:EC:432:TYR:CE1	2.49	0.47
45:EI:348:PRO:HD2	46:EJ:388:MET:CE	2.44	0.47
46:EJ:55:THR:HG23	46:FJ:283:ALA:HA	1.96	0.47
46:EJ:132:GLY:HA3	46:EJ:163:ILE:HG22	1.96	0.47
45:EM:3:GLU:O	45:EM:133:GLN:N	2.30	0.47
46:EN:372:THR:HA	46:EN:422:TYR:HE2	1.80	0.47
45:FA:155:GLU:HG2	45:FA:197:HIS:NE2	2.30	0.47
46:FH:11:GLN:NE2	49:FH:501:GDP:O2A	2.48	0.47
46:FH:117:LEU:HD21	46:FH:121:ARG:HH22	1.79	0.47
46:FJ:105:HIS:CD2	46:FJ:150:LEU:HB2	2.50	0.47
45:FK:79:ARG:O	45:FK:84:ARG:HG2	2.15	0.47
45:FK:340:THR:HG23	45:FK:341:ILE:HG13	1.96	0.47
46:FL:117:LEU:HA	46:FL:120:VAL:HG22	1.96	0.47
46:GD:345:ILE:HG23	46:GD:348:ASN:HB3	1.96	0.47
46:GF:52:ASN:OD1	46:GF:53:GLU:N	2.47	0.47
45:GM:184:PRO:O	45:GM:188:ILE:HG12	2.14	0.47
45:GM:223:THR:HG23	45:GM:225:THR:H	1.79	0.47
46:HB:271:ALA:CB	46:HB:293:MET:HE3	2.42	0.47
46:HF:30:ILE:HG13	46:HF:51:TYR:HE1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HF:273:LEU:O	46:HF:292:GLN:NE2	2.40	0.47
45:HG:183:GLU:N	45:HG:184:PRO:HD2	2.29	0.47
46:HH:16:ILE:HD13	46:HH:226:ASN:OD1	2.14	0.47
46:HL:190:HIS:CD2	46:HL:411:ALA:HA	2.49	0.47
46:HN:117:LEU:HA	46:HN:120:VAL:HG12	1.96	0.47
45:IA:67:PHE:HB2	45:IA:92:LEU:HD13	1.95	0.47
45:IC:326:LYS:HD3	46:IF:208:TYR:CD1	2.50	0.47
45:IE:171:ILE:HG23	45:IE:204:LEU:O	2.15	0.47
46:IF:116:VAL:O	46:IF:120:VAL:HG23	2.15	0.47
45:IG:88:HIS:HB3	45:IG:91:GLN:HG2	1.97	0.47
45:II:75:ILE:HD12	45:II:75:ILE:H	1.79	0.47
45:IK:328:VAL:O	45:IK:332:ILE:HG12	2.14	0.47
46:IL:11:GLN:NE2	49:IL:501:GDP:O3B	2.46	0.47
45:IM:89:PRO:HD3	46:JN:281:TYR:HE2	1.78	0.47
46:IN:204:ASN:OD1	49:IN:501:GDP:O2'	2.30	0.47
46:JF:325:GLU:O	46:JF:329:GLN:HG2	2.13	0.47
45:JI:377:MET:SD	45:JI:379:SER:HB3	2.54	0.47
46:JJ:1:MET:HG3	46:JJ:48:ASN:ND2	2.29	0.47
45:KA:103:PHE:HB2	45:KA:186:ASN:HB3	1.96	0.47
45:KA:251:ASP:OD1	45:KA:252:ILE:N	2.45	0.47
45:KG:349:THR:OG1	46:KJ:176:SER:OG	2.07	0.47
45:KG:394:LYS:HZ3	46:KH:346:PRO:HG2	1.79	0.47
45:KG:395:PHE:HZ	45:KG:418:PHE:HB3	1.79	0.47
46:KH:73:MET:HA	46:KH:76:VAL:HG12	1.96	0.47
46:KJ:238:CYS:SG	46:KJ:239:CYS:N	2.87	0.47
46:KN:181:GLU:HB3	46:KN:182:PRO:HD3	1.96	0.47
46:LB:304:ASP:OD1	46:LB:306:ARG:HG2	2.14	0.47
46:LD:156:ARG:HG2	46:LD:164:MET:HE2	1.96	0.47
46:LD:285:THR:HB	46:LD:287:PRO:HD2	1.97	0.47
45:LE:419:SER:O	45:LE:423:GLU:HG2	2.14	0.47
46:LH:113:ILE:HD11	46:LH:151:LEU:HB2	1.97	0.47
46:LJ:186:THR:HA	46:LJ:415:MET:HE1	1.96	0.47
45:LK:349:THR:OG1	46:LN:176:SER:OG	2.31	0.47
46:LL:66:MET:SD	46:LL:147:MET:HG2	2.55	0.47
45:MA:141:VAL:HG12	45:MA:171:ILE:O	2.14	0.47
45:MA:288:VAL:HA	45:MA:291:ILE:HG12	1.95	0.47
45:MC:395:PHE:HD2	45:MC:422:ARG:HD3	1.78	0.47
46:NJ:113:ILE:HG12	46:NJ:117:LEU:CD2	2.44	0.47
46:OB:286:VAL:HG12	46:OB:329:GLN:HE22	1.79	0.47
46:OD:16:ILE:HD12	46:OD:229:VAL:HG11	1.95	0.47
46:OD:109:GLY:O	46:OD:113:ILE:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OE:139:ASN:O	45:OE:170:THR:HA	2.15	0.47
46:OH:371:SER:O	46:OH:422:TYR:OH	2.18	0.47
45:OI:179:THR:HG21	46:OJ:246:LEU:HD23	1.96	0.47
46:PB:318:ARG:HH11	46:PB:358:PRO:HG3	1.80	0.47
45:PC:56:THR:HG23	45:PC:58:ALA:H	1.79	0.47
45:PC:346:TRP:CD1	46:PF:391:ARG:HG3	2.50	0.47
46:PD:12:CYS:O	46:PD:16:ILE:HG12	2.14	0.47
46:PD:391:ARG:HA	46:PD:391:ARG:HD2	1.73	0.47
45:PE:80:THR:O	45:PE:84:ARG:NH2	2.47	0.47
45:PE:340:THR:HG23	45:PE:341:ILE:HG13	1.95	0.47
45:PK:226:ASN:ND2	45:PK:367:ASP:OD1	2.48	0.47
46:PL:322:SER:HG	46:PL:325:GLU:CD	2.16	0.47
45:QA:101:ASN:HA	45:QA:144:GLY:H	1.79	0.47
45:QA:319:TYR:CD2	45:QA:328:VAL:HG22	2.49	0.47
45:QE:334:THR:HA	45:QE:337:THR:HG22	1.96	0.47
46:QF:287:PRO:CA	46:QF:329:GLN:HE22	2.24	0.47
46:QF:317:PHE:CD1	46:QF:365:VAL:HG22	2.49	0.47
45:QG:51:THR:HG21	45:QG:243:ARG:HB3	1.96	0.47
45:QG:279:GLU:OE1	45:QG:280:LYS:HG3	2.13	0.47
45:QI:318:MET:HB2	45:QI:376:CYS:SG	2.55	0.47
45:QK:14:ILE:HG13	45:QK:67:PHE:CD2	2.50	0.47
45:RC:200:VAL:HG23	45:RC:268:MET:HE1	1.95	0.47
46:RD:139:LEU:HD13	46:RD:168:SER:HB3	1.96	0.47
46:RD:237:THR:HG23	46:RD:241:ARG:HH21	1.80	0.47
46:RD:344:TRP:HB3	46:RD:430:ALA:HB2	1.96	0.47
45:RE:326:LYS:HD3	46:RF:212:PHE:HE2	1.78	0.47
46:RF:8:GLN:HE21	46:RF:65:LEU:HD22	1.78	0.47
46:RF:257:LEU:HD11	46:RF:314:SER:HB2	1.96	0.47
45:RI:392:ASP:OD1	45:RI:422:ARG:NH1	2.48	0.47
46:RJ:318:ARG:HH11	46:RJ:358:PRO:HG3	1.78	0.47
45:RK:389:SER:O	45:RK:393:HIS:ND1	2.47	0.47
46:RL:7:ILE:HB	46:RL:135:ILE:HG22	1.97	0.47
45:RM:75:ILE:HD12	45:RM:75:ILE:H	1.77	0.47
45:RM:208:ALA:O	45:RM:212:ILE:HG12	2.14	0.47
46:SB:219:THR:HG23	46:SB:219:THR:O	2.15	0.47
46:SD:31:ASP:OD2	46:SD:37:HIS:ND1	2.47	0.47
46:SD:204:ASN:HD22	46:SD:204:ASN:N	2.13	0.47
45:SE:430:LYS:O	45:SE:433:GLU:HG3	2.14	0.47
45:SI:288:VAL:HA	45:SI:291:ILE:HG12	1.96	0.47
46:SJ:268:ILE:HG22	46:SJ:368:VAL:HG22	1.96	0.47
46:SL:322:SER:OG	45:SM:221:ARG:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TA:88:HIS:ND1	45:TA:89:PRO:HD2	2.30	0.47
46:TB:154:LYS:HA	46:TB:157:GLU:OE1	2.15	0.47
46:TD:86:ARG:HE	46:TD:87:PRO:HD2	1.79	0.47
46:TD:288:GLU:O	46:TD:291:GLN:HG3	2.13	0.47
45:TE:74:VAL:HA	45:TE:77:GLU:CD	2.34	0.47
46:TJ:325:GLU:HA	46:TJ:328:GLU:HG2	1.96	0.47
46:TL:36:TYR:CZ	46:TL:44:LEU:HD11	2.49	0.47
46:TN:5:VAL:HG12	46:TN:62:ARG:HD3	1.95	0.47
45:UA:184:PRO:O	45:UA:188:ILE:HG12	2.14	0.47
45:UC:141:VAL:HG22	45:UC:187:SER:HA	1.97	0.47
45:UC:167:LEU:HD22	45:UC:200:VAL:HB	1.96	0.47
45:UE:245:ASP:OD1	45:UE:245:ASP:N	2.46	0.47
46:UF:294:PHE:CD2	46:UF:333:VAL:HG11	2.50	0.47
46:UF:372:THR:HA	46:UF:422:TYR:CE2	2.44	0.47
45:UK:268:MET:HG3	45:UK:380:ASN:HB2	1.96	0.47
46:UL:154:LYS:O	46:UL:157:GLU:HG2	2.13	0.47
46:UL:251:ARG:O	46:UL:255:VAL:HG23	2.14	0.47
46:UL:327:ASP:OD1	46:UL:328:GLU:N	2.48	0.47
45:UM:352:LYS:HA	46:UN:177:ASP:O	2.13	0.47
45:VC:123:ARG:HH11	45:VC:123:ARG:HA	1.79	0.47
46:VD:77:ARG:NH1	46:VD:82:GLY:O	2.47	0.47
45:VG:201:ALA:HB3	45:VG:267:PHE:CD1	2.49	0.47
45:VI:156:ARG:HG3	45:VI:156:ARG:HH11	1.78	0.47
45:VI:326:LYS:HD2	45:VI:326:LYS:N	2.29	0.47
46:VL:226:ASN:ND2	49:VL:501:GDP:HN1	2.08	0.47
46:VN:201:VAL:HG13	46:VN:301:CYS:SG	2.53	0.47
45:WC:28:HIS:CE1	45:WC:243:ARG:HD2	2.49	0.47
45:WC:41:THR:HG22	45:WC:42:ILE:N	2.22	0.47
45:WC:324:VAL:CG1	45:WC:326:LYS:HE2	2.38	0.47
45:WE:17:GLY:HA2	45:WE:20:CYS:SG	2.54	0.47
46:WF:309:ARG:NH2	46:WF:426:GLN:O	2.31	0.47
46:WF:390:ARG:HA	46:WF:390:ARG:NH1	2.29	0.47
45:WG:39:ASP:OD1	45:WG:40:LYS:N	2.47	0.47
46:WH:16:ILE:HD13	46:WH:226:ASN:OD1	2.15	0.47
46:WH:396:HIS:HA	46:WH:399:THR:HG22	1.96	0.47
45:WK:68:LEU:HD23	45:WK:149:LEU:HD21	1.96	0.47
45:WK:210:TYR:CG	46:WL:324:LYS:HE3	2.50	0.47
46:WL:314:SER:HB2	46:WL:368:VAL:HG23	1.95	0.47
45:WM:398:MET:HE3	46:WN:346:PRO:HD2	1.96	0.47
45:CE:324:VAL:O	45:CE:328:VAL:HG23	2.15	0.47
45:DC:324:VAL:O	45:DC:328:VAL:HG23	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0D:224:ARG:HB2	34:7R:566:PHE:CZ	2.49	0.47
4:1D:172:PRO:HD3	45:FE:279:GLU:OE1	2.13	0.47
8:1H:194:GLN:HE21	45:HG:282:TYR:HB2	1.78	0.47
18:1I:141:PHE:CD2	46:KF:40:SER:HB3	2.48	0.47
10:1Q:85:LYS:HE2	35:4S:245:GLU:OE2	2.14	0.47
28:2F:60:PHE:HZ	46:GF:87:PRO:HB3	1.78	0.47
20:2K:297:SER:O	46:GL:276:ARG:NH2	2.47	0.47
9:2N:10:TYR:CD2	46:IB:53:GLU:HB2	2.49	0.47
23:2O:149:TYR:OH	45:VK:371:VAL:HA	2.14	0.47
25:2R:256:ARG:NH2	45:CG:361:THR:OG1	2.48	0.47
11:2S:46:TRP:HZ3	45:WG:85:GLN:HA	1.77	0.47
12:2T:97:ARG:NH2	45:MG:416:GLY:HA3	2.30	0.47
31:3I:205:ILE:HA	45:FK:116:ASP:OD2	2.14	0.47
36:5D:91:HIS:NE2	36:5D:94:MET:HB3	2.30	0.47
34:5R:120:TYR:CE2	34:5R:162:TRP:HB3	2.49	0.47
40:6G:236:LEU:HD12	40:6G:236:LEU:O	2.13	0.47
40:6G:302:TYR:HA	46:UB:121:ARG:NH1	2.30	0.47
34:6R:78:ILE:HD12	34:6R:78:ILE:H	1.80	0.47
46:AD:294:PHE:CD2	46:AD:333:VAL:HG11	2.50	0.47
46:AD:301:CYS:HB3	46:AD:377:MET:HE1	1.97	0.47
45:AE:231:ILE:O	45:AE:235:ILE:HG12	2.15	0.47
45:AG:132:LEU:HD22	45:AG:164:LYS:HE2	1.97	0.47
46:AH:116:VAL:HA	46:AH:119:VAL:HG12	1.96	0.47
46:AH:238:CYS:HB2	46:AH:318:ARG:CZ	2.44	0.47
45:AK:332:ILE:HD12	45:AK:351:PHE:CE2	2.48	0.47
45:BG:17:GLY:HA2	45:BG:20:CYS:SG	2.54	0.47
45:BG:79:ARG:O	45:BG:84:ARG:HG2	2.14	0.47
46:BH:389:PHE:HZ	46:BH:405:GLU:HG2	1.78	0.47
46:BJ:201:VAL:HG23	46:BJ:301:CYS:SG	2.55	0.47
45:CA:109:THR:HG22	45:CA:110:ILE:HG23	1.95	0.47
46:CF:172:SER:HA	46:CF:377:MET:HE3	1.95	0.47
45:CG:10:GLY:O	45:CG:14:ILE:HG12	2.13	0.47
45:CG:352:LYS:HE2	46:CH:178:THR:HA	1.97	0.47
46:CJ:6:HIS:O	46:CJ:63:ALA:HA	2.15	0.47
45:CM:154:LEU:HD22	45:CM:166:LYS:HD3	1.94	0.47
46:DB:288:GLU:HA	46:DB:291:GLN:HG3	1.96	0.47
45:DE:169:PHE:CD2	45:DE:202:VAL:HB	2.50	0.47
45:DK:244:PHE:HB2	45:DK:356:ASN:HD21	1.80	0.47
45:DM:389:SER:O	45:DM:393:HIS:ND1	2.47	0.47
46:DN:105:HIS:CE1	46:DN:150:LEU:HD12	2.50	0.47
45:EC:229:ARG:O	45:EC:233:GLN:OE1	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:210:ILE:O	46:ED:214:THR:OG1	2.26	0.47
45:EG:82:THR:HG23	45:EG:83:TYR:CD2	2.49	0.47
45:EI:67:PHE:HB2	45:EI:92:LEU:HD13	1.97	0.47
45:EI:184:PRO:O	45:EI:188:ILE:HG12	2.14	0.47
46:EJ:293:MET:HG3	46:EJ:365:VAL:HG11	1.96	0.47
46:EL:9:GLY:HA2	46:EL:66:MET:O	2.14	0.47
46:EN:5:VAL:HG12	46:EN:62:ARG:HD3	1.96	0.47
46:EN:64:ILE:HA	46:EN:89:ASN:HB3	1.96	0.47
46:EN:262:ARG:NH1	46:EN:421:GLU:OE1	2.48	0.47
46:FB:86:ARG:NE	46:GB:281:TYR:HB3	2.29	0.47
46:FB:327:ASP:HA	46:FB:330:MET:HG3	1.96	0.47
46:FH:342:VAL:HG13	46:FH:345:ILE:HG22	1.95	0.47
45:FI:109:THR:HG22	45:FI:110:ILE:HG23	1.96	0.47
45:FK:205:ASP:OD2	45:FK:304:LYS:N	2.41	0.47
46:FL:137:HIS:NE2	46:FL:166:THR:OG1	2.47	0.47
46:FN:198:GLU:HG2	46:FN:266:PHE:HE2	1.79	0.47
46:FN:287:PRO:HA	46:FN:290:THR:HG22	1.96	0.47
46:GH:282:ARG:HE	46:GH:283:ALA:H	1.62	0.47
45:GK:102:ASN:ND2	45:GK:407:TRP:O	2.48	0.47
45:GM:188:ILE:HD11	45:GM:391:LEU:HB3	1.97	0.47
45:HC:326:LYS:HZ1	46:HF:208:TYR:HB3	1.80	0.47
46:HF:131:GLN:HG3	46:HF:163:ILE:HD11	1.97	0.47
46:HF:154:LYS:O	46:HF:157:GLU:HG2	2.14	0.47
45:HI:69:ASP:OD1	45:HI:70:LEU:N	2.48	0.47
45:HI:208:ALA:O	45:HI:212:ILE:HG12	2.15	0.47
45:HK:88:HIS:CD2	45:HK:90:GLU:HG2	2.48	0.47
45:HK:167:LEU:HG	45:HK:200:VAL:HB	1.96	0.47
45:IC:101:ASN:HA	45:IC:144:GLY:H	1.80	0.47
46:IF:50:TYR:OH	46:IF:237:THR:HG21	2.15	0.47
45:IM:107:HIS:ND1	45:IM:107:HIS:O	2.48	0.47
45:JG:69:ASP:OD2	45:JG:71:GLU:HG2	2.15	0.47
45:JI:88:HIS:O	45:JI:91:GLN:HG2	2.15	0.47
45:JK:261:PRO:HG2	45:JK:313:MET:HE3	1.95	0.47
46:JL:406:MET:O	46:JL:410:GLU:HG2	2.14	0.47
46:JN:12:CYS:O	46:JN:16:ILE:HG12	2.15	0.47
45:KA:88:HIS:NE2	45:KA:90:GLU:HG2	2.28	0.47
46:KB:174:LYS:HZ3	46:KB:380:ARG:HH12	1.61	0.47
45:KC:53:PHE:HB3	45:KC:61:HIS:HB3	1.96	0.47
45:KM:214:ARG:HD2	45:KM:215:ARG:N	2.29	0.47
45:LI:191:THR:HA	45:LI:194:LEU:HG	1.96	0.47
46:LJ:304:ASP:OD2	46:LJ:306:ARG:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LN:48:ASN:O	46:LN:62:ARG:NH1	2.46	0.47
46:MD:62:ARG:HH22	46:MD:127:CYS:HB3	1.80	0.47
46:MD:139:LEU:HD13	46:MD:168:SER:HB2	1.95	0.47
46:MF:330:MET:SD	46:MF:349:ILE:HG21	2.54	0.47
45:MG:175:PRO:HB3	45:MG:390:ARG:HE	1.79	0.47
45:MG:326:LYS:NZ	46:MJ:208:TYR:HB3	2.24	0.47
45:NA:208:ALA:O	45:NA:212:ILE:HG12	2.14	0.47
45:NC:128:ASN:HD21	45:OC:285:GLN:NE2	2.12	0.47
46:ND:238:CYS:SG	46:ND:239:CYS:N	2.88	0.47
45:NE:258:ASN:HB3	45:NE:352:LYS:HZ2	1.80	0.47
46:NF:342:VAL:HG13	46:NF:345:ILE:HG22	1.97	0.47
45:NI:37:PRO:HB2	45:NI:39:ASP:OD1	2.14	0.47
46:NJ:326:VAL:O	46:NJ:330:MET:HG3	2.14	0.47
45:NK:112:LYS:HA	45:NK:115:VAL:HG12	1.96	0.47
45:NK:121:ARG:HA	45:NK:121:ARG:HE	1.80	0.47
45:NM:208:ALA:O	45:NM:212:ILE:HG12	2.14	0.47
45:OA:172:TYR:CD2	45:OA:203:MET:HG3	2.49	0.47
46:OB:118:ASP:HA	46:OB:121:ARG:NH2	2.29	0.47
46:OF:58:ARG:HH22	46:OF:84:LEU:HA	1.80	0.47
46:OJ:97:ALA:HB3	46:OJ:143:THR:HB	1.96	0.47
46:OJ:217:LEU:H	46:OJ:217:LEU:HD23	1.80	0.47
46:OL:87:PRO:HA	46:OL:90:PHE:CD2	2.50	0.47
45:OM:67:PHE:HD2	45:OM:92:LEU:HD13	1.80	0.47
45:OM:271:SER:HA	45:OM:302:MET:HG2	1.96	0.47
45:PA:70:LEU:H	45:PA:70:LEU:HD23	1.80	0.47
46:PF:83:GLN:HE21	46:PF:84:LEU:HD22	1.79	0.47
45:PG:180:ALA:HA	46:PH:350:LYS:NZ	2.29	0.47
45:PG:207:GLU:OE2	45:PG:304:LYS:HB2	2.14	0.47
45:PG:265:ILE:HG12	45:PG:432:TYR:CE1	2.48	0.47
46:PH:7:ILE:HG12	46:PH:64:ILE:HD13	1.96	0.47
46:PH:294:PHE:CD2	46:PH:333:VAL:HG21	2.50	0.47
45:PK:135:PHE:CE2	45:PK:157:LEU:HD21	2.50	0.47
45:PM:425:LEU:O	45:PM:429:GLU:OE1	2.32	0.47
45:QA:202:VAL:HA	45:QA:268:MET:O	2.14	0.47
45:QA:272:TYR:OH	45:QA:320:ARG:NH2	2.43	0.47
45:QC:429:GLU:O	45:QC:433:GLU:HG2	2.14	0.47
46:QF:215:LEU:HD21	46:QF:273:LEU:HD12	1.95	0.47
46:QJ:313:ALA:HB1	46:QJ:367:PHE:CE1	2.50	0.47
46:QJ:375:GLN:HG3	46:QJ:419:VAL:HG13	1.95	0.47
45:QK:31:GLN:NE2	45:QK:33:ASP:HB3	2.29	0.47
46:RB:19:LYS:HD3	46:RB:226:ASN:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:362:LYS:O	46:RB:363:MET:HE2	2.13	0.47
46:RD:169:VAL:HG12	46:RD:202:ILE:HB	1.95	0.47
45:RE:141:VAL:HG12	45:RE:171:ILE:O	2.13	0.47
45:RE:326:LYS:HE3	46:RF:220:PRO:HG2	1.95	0.47
45:RG:280:LYS:NZ	45:RG:283:HIS:HB2	2.30	0.47
45:RG:407:TRP:O	45:RG:410:GLY:N	2.46	0.47
46:RJ:385:PHE:HE2	46:RJ:412:GLU:OE2	1.96	0.47
46:RL:21:TRP:CE3	46:RL:61:PRO:HB3	2.48	0.47
46:SB:372:THR:HA	46:SB:422:TYR:HE2	1.79	0.47
46:SD:324:LYS:HE3	45:SE:214:ARG:HD3	1.95	0.47
46:SF:289:LEU:HD11	46:SF:363:MET:HB3	1.95	0.47
45:SG:353:VAL:HG12	46:SH:177:ASP:HB2	1.95	0.47
46:SJ:42:LEU:HA	46:SJ:45:GLU:OE2	2.15	0.47
45:SK:102:ASN:HD22	45:SK:105:ARG:HG3	1.79	0.47
45:SM:276:ILE:HG13	45:SM:280:LYS:HE2	1.95	0.47
46:SN:372:THR:HA	46:SN:422:TYR:HE2	1.79	0.47
45:TC:88:HIS:CD2	45:UC:280:LYS:HZ2	2.32	0.47
45:TE:35:GLN:HE22	45:TE:60:LYS:N	2.13	0.47
46:TF:130:LEU:HD21	46:TF:133:PHE:CZ	2.49	0.47
45:TI:183:GLU:N	45:TI:184:PRO:HD2	2.30	0.47
46:TL:58:ARG:HH11	46:UL:280:GLN:HE22	1.63	0.47
46:UF:143:THR:OG1	49:UF:501:GDP:O1B	2.28	0.47
46:UJ:389:PHE:HZ	46:UJ:405:GLU:HG3	1.79	0.47
45:UK:175:PRO:HD2	45:UK:207:GLU:OE2	2.14	0.47
46:UL:117:LEU:HA	46:UL:120:VAL:HG12	1.97	0.47
45:UM:74:VAL:O	45:UM:78:VAL:HG23	2.14	0.47
45:UM:188:ILE:HG13	45:UM:425:LEU:HD11	1.96	0.47
45:UM:387:VAL:O	45:UM:390:ARG:HG2	2.15	0.47
46:VB:18:ALA:O	46:VB:22:GLU:HG3	2.13	0.47
45:VG:75:ILE:HG23	45:VG:92:LEU:HD23	1.97	0.47
45:VG:319:TYR:CD1	45:VG:328:VAL:HG22	2.50	0.47
46:VJ:87:PRO:HA	46:VJ:90:PHE:HD2	1.78	0.47
45:VK:150:GLY:O	45:VK:154:LEU:HD23	2.14	0.47
45:VK:301:MET:CE	45:VK:307:PRO:HD3	2.44	0.47
46:VL:9:GLY:HA2	46:VL:66:MET:O	2.15	0.47
46:VN:289:LEU:HB3	46:VN:365:VAL:HG21	1.96	0.47
46:WB:97:ALA:HA	46:WB:103:LYS:HE3	1.97	0.47
46:WB:238:CYS:SG	46:WB:239:CYS:N	2.88	0.47
46:WD:128:ASP:OD1	46:WD:129:CYS:N	2.47	0.47
46:WJ:194:GLU:HA	46:WJ:262:ARG:HH12	1.80	0.47
23:1O:267:ALA:CB	45:UA:281:ALA:HB3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:2I:114:PHE:CE2	45:FC:123:ARG:HD2	2.49	0.47
30:3H:205:GLN:OE1	45:AG:82:THR:N	2.47	0.47
31:3I:260:MET:HB3	46:GJ:332:ASN:HD21	1.79	0.47
10:5Q:101:ARG:HG2	10:5Q:144:TYR:CE1	2.49	0.47
34:5R:337:GLY:HA2	34:5R:371:ILE:HD11	1.95	0.47
34:5R:487:GLU:N	34:5R:487:GLU:OE2	2.45	0.47
10:6Q:115:LYS:HD3	45:AM:264:ARG:HD3	1.95	0.47
45:AA:88:HIS:HA	45:BA:280:LYS:NZ	2.30	0.47
46:AD:113:ILE:HG12	46:AD:117:LEU:HG	1.95	0.47
46:AF:318:ARG:HH11	46:AF:358:PRO:HG3	1.79	0.47
46:AJ:180:VAL:O	46:AJ:180:VAL:HG12	2.14	0.47
45:AK:276:ILE:HD12	45:AK:281:ALA:HA	1.96	0.47
46:AL:238:CYS:SG	46:AL:239:CYS:N	2.87	0.47
45:BA:210:TYR:HE1	45:BA:227:LEU:HD11	1.80	0.47
45:BC:358:GLN:OE1	45:BC:359:PRO:HD2	2.14	0.47
46:BD:294:PHE:CD2	46:BD:333:VAL:HG11	2.49	0.47
45:BG:306:ASP:OD2	45:BG:308:ARG:HG3	2.15	0.47
46:BJ:222:TYR:HA	46:BJ:225:LEU:HD12	1.96	0.47
46:BL:145:SER:HB3	46:BL:188:SER:HB3	1.96	0.47
46:CD:173:PRO:HD2	46:CD:174:LYS:NZ	2.29	0.47
46:CJ:167:PHE:CZ	46:CJ:200:MET:HG3	2.50	0.47
46:DD:201:VAL:HG23	46:DD:301:CYS:SG	2.54	0.47
45:DE:226:ASN:ND2	45:DE:367:ASP:OD2	2.45	0.47
46:DF:21:TRP:CZ2	46:DF:63:ALA:HB2	2.49	0.47
45:DG:68:LEU:HD11	45:DG:118:CYS:SG	2.55	0.47
45:DG:75:ILE:O	45:DG:79:ARG:HG2	2.14	0.47
46:DH:213:ARG:HH21	46:DH:297:LYS:HB3	1.80	0.47
45:DI:137:VAL:HG23	45:DI:168:GLY:HA2	1.95	0.47
45:DI:208:ALA:O	45:DI:212:ILE:HG12	2.14	0.47
46:DJ:375:GLN:HG3	46:DJ:419:VAL:HG13	1.96	0.47
45:DM:371:VAL:HG22	45:DM:373:ARG:H	1.78	0.47
46:EB:139:LEU:HD13	46:EB:168:SER:HB3	1.95	0.47
46:ED:222:TYR:O	46:ED:226:ASN:ND2	2.27	0.47
45:EG:217:LEU:HB3	45:EG:219:ILE:HG12	1.96	0.47
46:EJ:67:ASP:O	46:EJ:92:PHE:HA	2.14	0.47
46:EJ:105:HIS:CE1	46:EJ:150:LEU:HD12	2.50	0.47
45:EM:426:ALA:HB1	45:EM:430:LYS:HZ1	1.79	0.47
46:EN:148:GLY:O	46:EN:152:ILE:HG12	2.13	0.47
45:FA:305:CYS:SG	45:FA:306:ASP:N	2.88	0.47
46:FB:91:VAL:HG21	46:FB:116:VAL:HB	1.95	0.47
45:FC:398:MET:HE2	46:FD:346:PRO:HD2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FD:222:TYR:O	46:FD:226:ASN:ND2	2.33	0.47
45:FE:171:ILE:HG23	45:FE:204:LEU:O	2.15	0.47
45:FI:242:LEU:HD21	45:FI:252:ILE:HG12	1.97	0.47
46:FN:42:LEU:HA	46:FN:45:GLU:HG3	1.97	0.47
45:GA:27:GLU:HB2	45:GA:361:THR:HG21	1.97	0.47
45:GE:80:THR:O	45:GE:84:ARG:NH2	2.48	0.47
45:GE:321:GLY:HA3	45:GE:372:MET:O	2.14	0.47
45:GE:408:TYR:HB3	45:GE:413:MET:HE2	1.97	0.47
46:GJ:6:HIS:HE1	46:GJ:8:GLN:HB3	1.79	0.47
46:GJ:118:ASP:O	46:GJ:121:ARG:HG2	2.14	0.47
45:GM:60:LYS:NZ	45:GM:85:GLN:O	2.44	0.47
45:HC:88:HIS:HB3	45:HC:91:GLN:HG2	1.97	0.47
46:HF:175:VAL:HG22	46:HF:205:GLU:HB3	1.97	0.47
45:HG:161:TYR:HB3	45:HG:164:LYS:HG2	1.96	0.47
46:ID:178:THR:HB	46:ID:181:GLU:OE1	2.14	0.47
45:IE:121:ARG:NE	45:IE:121:ARG:HA	2.29	0.47
46:IH:221:THR:HG23	46:IH:224:ASP:H	1.79	0.47
46:IH:372:THR:HA	46:IH:422:TYR:HE2	1.78	0.47
45:II:205:ASP:OD1	45:II:303:ALA:HA	2.15	0.47
45:IK:97:GLU:OE2	45:IK:110:ILE:HG13	2.14	0.47
46:IL:65:LEU:HD22	46:IL:90:PHE:CE1	2.50	0.47
46:JB:5:VAL:HG12	46:JB:62:ARG:HD3	1.96	0.47
45:JC:206:ASN:OD1	47:JC:501:GTP:N2	2.40	0.47
46:JD:9:GLY:HA2	46:JD:66:MET:O	2.15	0.47
46:JD:52:ASN:OD1	46:JD:62:ARG:NH2	2.47	0.47
46:JN:313:ALA:HB1	46:JN:367:PHE:CE1	2.49	0.47
45:KA:210:TYR:CE1	45:KA:227:LEU:HD21	2.50	0.47
46:KJ:105:HIS:CE1	46:KJ:150:LEU:HD12	2.50	0.47
46:KJ:156:ARG:HD3	46:KJ:156:ARG:O	2.15	0.47
46:KJ:200:MET:HG2	46:KJ:266:PHE:HB2	1.96	0.47
46:KN:27:GLU:O	46:KN:43:GLN:NE2	2.45	0.47
46:LD:190:HIS:CD2	46:LD:414:ASN:HD22	2.33	0.47
45:LE:430:LYS:HD3	45:LE:433:GLU:OE2	2.15	0.47
46:LH:319:GLY:HA2	46:LH:357:PRO:HD3	1.96	0.47
45:LI:52:PHE:HZ	45:LI:239:THR:HG21	1.79	0.47
46:LL:374:ILE:O	46:LL:377:MET:HG2	2.15	0.47
46:MB:342:VAL:HG13	46:MB:345:ILE:HG22	1.96	0.47
45:MG:82:THR:HG23	45:MG:83:TYR:CD2	2.49	0.47
45:MM:265:ILE:HG22	45:MM:432:TYR:CE1	2.49	0.47
46:MN:276:ARG:NE	46:MN:276:ARG:HA	2.30	0.47
45:NA:31:GLN:HG2	45:NA:37:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NC:6:SER:HG	45:NC:21:TRP:HZ2	1.62	0.47
46:ND:194:GLU:OE2	46:ND:195:ASN:ND2	2.47	0.47
45:NI:253:THR:HA	45:NI:256:GLN:HE22	1.80	0.47
45:NI:343:PHE:HZ	45:NI:351:PHE:CE1	2.32	0.47
46:NJ:86:ARG:HA	46:OJ:281:TYR:HD2	1.79	0.47
45:NM:9:VAL:HG22	45:NM:146:GLY:HA2	1.96	0.47
46:NN:315:ALA:HB1	46:NN:317:PHE:CE2	2.49	0.47
46:OB:300:MET:N	46:OB:300:MET:SD	2.87	0.47
45:OE:8:HIS:HB2	45:OE:67:PHE:HD1	1.79	0.47
46:OF:67:ASP:O	46:OF:92:PHE:HA	2.14	0.47
46:OF:167:PHE:CD1	46:OF:233:MET:HE2	2.50	0.47
45:OI:98:ASP:OD1	45:OI:99:ALA:N	2.48	0.47
46:OJ:97:ALA:HA	46:OJ:103:LYS:HE2	1.96	0.47
45:OK:171:ILE:HG23	45:OK:204:LEU:O	2.14	0.47
46:OL:294:PHE:CE2	46:OL:333:VAL:HG11	2.46	0.47
45:PA:141:VAL:HG12	45:PA:171:ILE:O	2.14	0.47
45:PA:426:ALA:C	45:PA:430:LYS:HZ2	2.18	0.47
45:PE:51:THR:HG21	45:PE:243:ARG:HB3	1.97	0.47
45:PE:88:HIS:HD2	45:PE:89:PRO:HD2	1.79	0.47
46:PH:312:THR:HG22	46:PH:370:ASN:HB3	1.96	0.47
45:PI:229:ARG:HH12	45:PI:363:VAL:HG21	1.80	0.47
46:PJ:389:PHE:CZ	46:PJ:405:GLU:HG2	2.49	0.47
45:PK:90:GLU:HG3	45:PK:121:ARG:HH12	1.79	0.47
46:PL:102:ALA:HA	46:PL:403:MET:HE3	1.97	0.47
46:PN:69:GLU:CD	46:PN:71:GLY:H	2.18	0.47
45:QA:209:ILE:HA	45:QA:212:ILE:HG22	1.95	0.47
45:QC:210:TYR:CE1	45:QC:227:LEU:HD11	2.50	0.47
45:QE:317:MET:HG2	45:QE:353:VAL:HG23	1.97	0.47
45:QE:340:THR:HG23	45:QE:341:ILE:HG13	1.97	0.47
46:QF:273:LEU:H	46:QF:292:GLN:NE2	2.08	0.47
45:QI:20:CYS:HA	45:QI:232:ALA:HB1	1.95	0.47
45:QI:352:LYS:HZ1	46:QJ:179:VAL:HG22	1.79	0.47
46:QJ:350:LYS:HD2	46:QJ:351:SER:H	1.80	0.47
45:QK:133:GLN:HB3	45:QK:252:ILE:CD1	2.45	0.47
45:QK:236:SER:HA	45:QK:239:THR:HG22	1.97	0.47
46:RF:255:VAL:HA	45:RG:407:TRP:CZ2	2.50	0.47
45:RI:98:ASP:OD1	45:RI:99:ALA:N	2.48	0.47
46:RN:268:ILE:HG22	46:RN:368:VAL:HG22	1.95	0.47
45:SA:101:ASN:HA	45:SA:144:GLY:H	1.79	0.47
46:SB:145:SER:HB2	46:SB:188:SER:HB3	1.96	0.47
46:SB:251:ARG:HE	45:SC:105:ARG:HH12	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:289:LEU:HB3	46:SF:365:VAL:HG21	1.96	0.47
45:SK:75:ILE:HG12	45:SK:79:ARG:HH12	1.79	0.47
45:SK:214:ARG:NH1	45:SK:219:ILE:O	2.47	0.47
45:TA:3:GLU:HG2	45:TA:64:ARG:CZ	2.44	0.47
46:TB:208:TYR:HE1	46:TB:225:LEU:HD11	1.79	0.47
45:TE:60:LYS:HE2	45:UE:283:HIS:CD2	2.50	0.47
46:TJ:341:PHE:HB3	46:TJ:348:ASN:HD21	1.78	0.47
45:UC:194:LEU:HB2	45:UC:198:THR:OG1	2.14	0.47
45:UE:434:GLU:O	45:UE:437:ILE:HG12	2.15	0.47
45:UG:88:HIS:O	45:UG:91:GLN:HG2	2.14	0.47
45:UG:171:ILE:HG23	45:UG:204:LEU:O	2.14	0.47
46:UH:52:ASN:OD1	46:UH:62:ARG:NH2	2.47	0.47
45:UK:75:ILE:HG22	45:UK:79:ARG:HD2	1.97	0.47
45:UM:238:LEU:HD12	45:UM:239:THR:HG23	1.95	0.47
45:VG:221:ARG:HA	45:VG:221:ARG:HD2	1.45	0.47
45:VI:183:GLU:N	45:VI:184:PRO:HD2	2.29	0.47
45:VM:109:THR:HG22	45:VM:110:ILE:HG23	1.96	0.47
46:VN:86:ARG:HB3	46:VN:89:ASN:OD1	2.14	0.47
46:VN:210:ILE:O	46:VN:214:THR:HG22	2.15	0.47
45:WA:3:GLU:O	45:WA:133:GLN:N	2.30	0.47
46:WD:268:ILE:HG22	46:WD:368:VAL:HG22	1.96	0.47
45:WG:356:ASN:OD1	45:WG:357:TYR:N	2.47	0.47
46:WH:31:ASP:OD1	46:WH:35:THR:N	2.37	0.47
45:WM:171:ILE:HD13	47:WM:501:GTP:N2	2.29	0.47
45:DC:27:GLU:OE2	45:DC:243:ARG:NH1	2.48	0.47
2:0B:294:ILE:HG22	46:KL:227:HIS:ND1	2.29	0.47
6:0F:35:TYR:HA	45:DE:79:ARG:HH11	1.80	0.47
7:0G:114:LYS:HZ1	45:JM:367:ASP:HA	1.78	0.47
7:0G:162:ALA:HA	45:KM:244:PHE:HA	1.97	0.47
1:1A:67:PRO:HG3	46:MF:53:GLU:CG	2.44	0.47
4:1D:166:ARG:NH1	45:EG:80:THR:O	2.47	0.47
18:1I:11:TYR:OH	46:ID:47:ILE:HG23	2.14	0.47
19:1J:76:VAL:HG22	45:IC:370:LYS:NZ	2.29	0.47
19:1J:293:ASP:OD2	45:IK:221:ARG:NH2	2.47	0.47
26:1W:189:ARG:NH1	45:LA:45:GLY:H	1.99	0.47
27:2C:223:GLN:HB3	45:KI:219:ILE:HG23	1.97	0.47
20:2K:291:GLN:HE22	46:FL:56:GLY:N	2.12	0.47
25:2R:181:PHE:CE2	46:AJ:80:PRO:HB3	2.49	0.47
1:3A:134:LYS:O	46:AN:320:ARG:NH2	2.42	0.47
27:3C:67:LYS:NZ	45:LA:81:GLY:HA2	2.29	0.47
11:3S:104:THR:HB	46:MN:156:ARG:HH22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:4F:71:TYR:HE1	45:II:31:GLN:HA	1.77	0.47
34:4R:423:ILE:HD12	34:4R:447:PHE:HD2	1.80	0.47
34:4R:525:GLU:CD	34:4R:525:GLU:H	2.17	0.47
35:4S:184:ARG:HA	35:4S:240:MET:CE	2.45	0.47
35:4S:233:ALA:O	35:4S:237:ILE:HG12	2.14	0.47
15:4X:76:GLU:OE1	15:4X:77:LEU:HD22	2.15	0.47
36:5A:45:TYR:CZ	36:5A:56:ILE:HG13	2.49	0.47
36:5C:57:PRO:HG2	46:KJ:390:ARG:CZ	2.44	0.47
37:5F:26:GLY:HA2	45:OC:221:ARG:CZ	2.45	0.47
37:5G:52:GLY:H	37:5G:55:GLU:CD	2.18	0.47
34:5R:457:GLU:HB2	34:5R:470:PHE:HB2	1.97	0.47
34:7R:41:LYS:NZ	34:7R:43:ASN:HB2	2.29	0.47
34:7R:497:GLN:HG3	34:7R:502:ARG:HG2	1.95	0.47
45:AA:401:LYS:HZ1	46:AB:425:TYR:HE1	1.63	0.47
45:AC:147:SER:HB2	45:AC:190:SER:HB3	1.96	0.47
45:AE:226:ASN:ND2	45:AE:367:ASP:OD2	2.40	0.47
45:AE:387:VAL:HG12	45:AE:390:ARG:HH22	1.79	0.47
46:AF:73:MET:HE1	46:AF:92:PHE:HB3	1.97	0.47
46:AF:376:GLU:O	46:AF:380:ARG:HG3	2.14	0.47
46:AF:378:PHE:CD1	46:AF:415:MET:HE3	2.50	0.47
45:AG:175:PRO:HG3	45:AG:390:ARG:CZ	2.44	0.47
46:AH:232:ALA:HB1	46:AH:268:ILE:HD12	1.97	0.47
45:AI:291:ILE:HD13	45:AI:373:ARG:HB3	1.97	0.47
46:AN:200:MET:HE1	46:AN:268:ILE:HG21	1.97	0.47
46:BB:240:LEU:HD21	46:BB:249:ASP:HA	1.97	0.47
46:BB:290:THR:HA	46:BB:293:MET:HG2	1.97	0.47
45:BC:54:SER:HB3	45:BC:64:ARG:HE	1.80	0.47
45:BC:254:GLU:HA	45:BC:257:THR:HG22	1.97	0.47
46:BD:184:ASN:OD1	46:BD:185:ALA:N	2.48	0.47
45:BE:331:SER:O	45:BE:335:ILE:HG12	2.14	0.47
46:BF:48:ASN:O	46:BF:62:ARG:NH1	2.48	0.47
46:BF:211:CYS:SG	46:BF:220:PRO:HG3	2.54	0.47
46:BH:6:HIS:O	46:BH:63:ALA:HA	2.14	0.47
45:BI:189:LEU:HD11	45:BI:418:PHE:HE1	1.80	0.47
45:BI:329:ASN:HD21	46:BL:175:VAL:CG1	2.27	0.47
46:BJ:167:PHE:HE1	46:BJ:233:MET:SD	2.38	0.47
45:BK:265:ILE:O	45:BK:265:ILE:HG13	2.14	0.47
46:BL:282:ARG:NH2	46:BL:292:GLN:OE1	2.47	0.47
45:BM:336:LYS:HZ3	45:BM:343:PHE:HD1	1.63	0.47
46:CB:16:ILE:HD13	46:CB:226:ASN:HD22	1.79	0.47
45:CC:5:ILE:HB	45:CC:135:PHE:HD1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CC:206:ASN:OD1	45:CC:207:GLU:N	2.48	0.47
45:CC:212:ILE:HD13	45:CC:215:ARG:HH11	1.80	0.47
46:CF:204:ASN:OD1	49:CF:501:GDP:O2'	2.32	0.47
45:CG:156:ARG:HA	45:CG:156:ARG:NE	2.30	0.47
45:CI:190:SER:O	45:CI:194:LEU:HD23	2.14	0.47
46:CJ:324:LYS:CE	45:CK:222:PRO:HD2	2.39	0.47
45:CK:2:ARG:CZ	45:CK:133:GLN:HE22	2.27	0.47
45:CK:205:ASP:OD2	45:CK:303:ALA:HA	2.14	0.47
45:CK:211:ASP:OD1	45:CK:215:ARG:NE	2.48	0.47
45:CK:242:LEU:HD11	45:CK:252:ILE:HG23	1.97	0.47
46:CL:1:MET:HE1	45:CM:96:LYS:HA	1.96	0.47
45:CM:182:VAL:HG22	45:CM:185:TYR:HB2	1.97	0.47
45:CM:207:GLU:HA	45:CM:210:TYR:HB2	1.96	0.47
45:DA:14:ILE:HD11	45:DA:69:ASP:HB2	1.96	0.47
46:DD:11:GLN:HE22	49:DD:501:GDP:H8	1.62	0.47
45:DE:90:GLU:OE1	45:EE:280:LYS:NZ	2.47	0.47
45:DG:292:THR:HG21	45:DG:331:SER:HB3	1.96	0.47
46:DH:105:HIS:CE1	46:DH:150:LEU:HD12	2.50	0.47
46:DH:344:TRP:HB3	46:DH:430:ALA:HB2	1.96	0.47
46:DJ:8:GLN:OE1	46:DJ:65:LEU:HD22	2.14	0.47
45:DK:21:TRP:CZ2	45:DK:65:ALA:HB2	2.49	0.47
45:DK:166:LYS:N	45:DK:199:ASP:OD2	2.36	0.47
45:DM:265:ILE:HG22	45:DM:432:TYR:HE1	1.79	0.47
46:DN:65:LEU:HD22	46:DN:90:PHE:CE1	2.50	0.47
45:EA:109:THR:HG22	45:EA:110:ILE:HG23	1.96	0.47
45:EA:171:ILE:HG23	45:EA:204:LEU:O	2.15	0.47
45:EA:184:PRO:O	45:EA:188:ILE:HG12	2.15	0.47
46:EB:133:PHE:HD2	46:EB:155:VAL:HG11	1.80	0.47
46:EB:262:ARG:NH1	46:EB:421:GLU:OE1	2.48	0.47
45:EC:91:GLN:HA	45:EC:121:ARG:NE	2.30	0.47
46:ED:280:GLN:OE1	46:ED:280:GLN:N	2.45	0.47
46:EF:8:GLN:O	46:EF:66:MET:HG2	2.15	0.47
46:EF:246:LEU:HD13	46:EF:353:ILE:HD13	1.97	0.47
45:EG:68:LEU:HD21	45:EG:118:CYS:SG	2.55	0.47
45:EG:98:ASP:OD1	45:EG:99:ALA:N	2.48	0.47
45:EG:241:SER:OG	45:EG:250:VAL:O	2.28	0.47
45:EG:254:GLU:OE1	46:EH:99:ASN:ND2	2.48	0.47
46:EH:210:ILE:O	46:EH:214:THR:OG1	2.23	0.47
46:EJ:21:TRP:CZ3	46:EJ:61:PRO:HB3	2.50	0.47
46:EJ:207:LEU:HB3	46:EJ:225:LEU:HD22	1.96	0.47
45:EK:147:SER:HB2	45:EK:190:SER:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:4:ILE:HG13	46:EL:132:GLY:O	2.14	0.47
45:EM:288:VAL:HG11	45:EM:327:ASP:HB3	1.96	0.47
46:EN:101:TRP:CE3	46:EN:187:LEU:HD13	2.50	0.47
45:FA:210:TYR:HE1	45:FA:227:LEU:HD11	1.79	0.47
45:FA:221:ARG:CZ	46:FB:322:SER:HB3	2.45	0.47
45:FA:248:LEU:HD12	45:FA:355:ILE:HD12	1.95	0.47
45:FA:288:VAL:HA	45:FA:291:ILE:HG12	1.96	0.47
46:FB:186:THR:HG23	46:FB:415:MET:SD	2.55	0.47
45:FC:79:ARG:O	45:FC:84:ARG:HG2	2.14	0.47
46:FF:230:SER:HA	46:FF:233:MET:HE2	1.96	0.47
45:FG:227:LEU:O	45:FG:231:ILE:HG13	2.15	0.47
46:FH:10:GLY:O	46:FH:14:ASN:ND2	2.48	0.47
46:FH:257:LEU:HD21	46:FH:314:SER:HB2	1.96	0.47
45:FI:11:GLN:NE2	46:FJ:245:GLN:O	2.47	0.47
45:FK:171:ILE:HG23	45:FK:204:LEU:O	2.15	0.47
46:FL:238:CYS:SG	46:FL:239:CYS:N	2.88	0.47
46:FN:293:MET:SD	46:FN:365:VAL:HG11	2.54	0.47
45:GA:21:TRP:CZ2	45:GA:65:ALA:HB2	2.50	0.47
46:GB:132:GLY:HA2	46:GB:162:ARG:HB3	1.96	0.47
45:GE:101:ASN:HD22	45:GE:143:GLY:HA2	1.79	0.47
45:GE:306:ASP:HB3	45:GE:309:HIS:CE1	2.50	0.47
45:GG:221:ARG:HH21	46:GH:320:ARG:HH12	1.63	0.47
46:GH:310:TYR:CD1	46:GH:371:SER:HB2	2.49	0.47
45:GI:22:GLU:HG2	45:GI:83:TYR:OH	2.15	0.47
45:GK:425:LEU:O	45:GK:429:GLU:HG2	2.14	0.47
46:GN:202:ILE:HD11	46:GN:268:ILE:HD11	1.96	0.47
46:GN:301:CYS:SG	46:GN:302:ALA:N	2.87	0.47
45:HA:319:TYR:CE1	45:HA:328:VAL:HG22	2.49	0.47
46:HB:235:GLY:O	46:HB:316:LEU:HD23	2.14	0.47
45:HE:133:GLN:HB3	45:HE:252:ILE:HD11	1.97	0.47
46:HF:345:ILE:HG23	46:HF:345:ILE:O	2.15	0.47
45:HI:187:SER:O	45:HI:191:THR:HG23	2.15	0.47
46:HJ:273:LEU:H	46:HJ:292:GLN:NE2	2.10	0.47
45:HK:174:SER:HB2	45:HK:177:VAL:O	2.15	0.47
46:HL:16:ILE:HD13	46:HL:226:ASN:OD1	2.15	0.47
45:IA:387:VAL:HA	45:IA:390:ARG:HG2	1.97	0.47
46:IB:121:ARG:O	46:IB:125:GLU:OE1	2.33	0.47
46:IB:145:SER:HB2	46:IB:188:SER:HB3	1.97	0.47
45:IC:121:ARG:NE	45:IC:121:ARG:HA	2.29	0.47
46:ID:31:ASP:OD1	46:ID:35:THR:N	2.36	0.47
46:ID:73:MET:HG2	46:ID:90:PHE:CD1	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IE:118:CYS:O	45:IE:122:ILE:HG12	2.15	0.47
46:IF:334:GLN:NE2	46:IF:348:ASN:OD1	2.40	0.47
45:IG:8:HIS:CD2	45:IG:138:PHE:HD1	2.32	0.47
45:IG:100:ALA:O	46:IH:255:VAL:HG21	2.15	0.47
45:IG:245:ASP:OD2	45:IG:245:ASP:N	2.47	0.47
46:IJ:324:LYS:HB3	46:IJ:328:GLU:OE2	2.15	0.47
45:IK:135:PHE:HE2	45:IK:157:LEU:HD12	1.80	0.47
46:IL:64:ILE:HD13	46:IL:119:VAL:HG12	1.97	0.47
46:IN:181:GLU:HB2	46:IN:182:PRO:HD3	1.96	0.47
46:IN:187:LEU:HD21	46:IN:408:PHE:HE1	1.80	0.47
46:IN:201:VAL:HG22	46:IN:266:PHE:O	2.14	0.47
46:IN:287:PRO:HG3	46:IN:329:GLN:NE2	2.30	0.47
45:JA:17:GLY:HA2	45:JA:20:CYS:SG	2.55	0.47
45:JA:70:LEU:HD13	45:JA:145:THR:OG1	2.15	0.47
45:JA:89:PRO:HD3	45:KA:283:HIS:ND1	2.30	0.47
45:JA:179:THR:O	46:JB:350:LYS:HA	2.14	0.47
45:JA:205:ASP:OD1	45:JA:303:ALA:HA	2.15	0.47
46:JB:325:GLU:HA	46:JB:328:GLU:HG2	1.96	0.47
45:JG:439:THR:HG21	46:JJ:390:ARG:HH12	1.79	0.47
46:JJ:226:ASN:ND2	49:JJ:501:GDP:HN1	2.12	0.47
46:JN:328:GLU:HA	46:JN:331:LEU:HG	1.96	0.47
46:KB:116:VAL:HA	46:KB:119:VAL:HG12	1.97	0.47
45:KC:205:ASP:N	45:KC:205:ASP:OD2	2.46	0.47
45:KG:208:ALA:O	45:KG:212:ILE:HG12	2.13	0.47
45:KG:210:TYR:CE2	45:KG:227:LEU:HD11	2.49	0.47
45:KG:296:PHE:HE2	45:KG:335:ILE:HG21	1.79	0.47
45:KI:318:MET:HB2	45:KI:376:CYS:SG	2.54	0.47
46:KJ:343:GLU:N	46:KJ:343:GLU:OE1	2.47	0.47
46:KL:20:PHE:CD2	46:KL:21:TRP:HD1	2.33	0.47
45:LA:34:GLY:O	45:LA:60:LYS:HA	2.15	0.47
46:LB:372:THR:HA	46:LB:422:TYR:CE2	2.50	0.47
46:LD:207:LEU:HD23	46:LD:225:LEU:HB3	1.96	0.47
46:LF:86:ARG:NE	46:LF:86:ARG:HA	2.30	0.47
45:LI:222:PRO:HD2	46:LJ:324:LYS:HZ1	1.80	0.47
45:LI:298:PRO:HB3	45:LI:307:PRO:HD2	1.97	0.47
46:LJ:164:MET:HB3	46:LJ:197:ASP:H	1.78	0.47
45:LK:265:ILE:HG22	45:LK:380:ASN:HD21	1.79	0.47
45:LK:329:ASN:ND2	46:LN:208:TYR:CE2	2.83	0.47
47:LK:501:GTP:O2A	47:LK:501:GTP:H8	1.97	0.47
46:LL:6:HIS:O	46:LL:63:ALA:HA	2.15	0.47
46:LL:51:TYR:HE1	46:LL:61:PRO:HG3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LL:317:PHE:HB3	46:LL:321:MET:CE	2.45	0.47
46:LN:31:ASP:OD2	46:LN:33:THR:OG1	2.33	0.47
46:LN:253:LEU:HA	46:LN:350:LYS:HE2	1.95	0.47
45:MA:49:PHE:O	45:MA:53:PHE:N	2.34	0.47
45:MA:71:GLU:HB3	45:MA:98:ASP:HB3	1.96	0.47
45:MC:171:ILE:HG13	45:MC:204:LEU:O	2.14	0.47
46:MD:294:PHE:CD2	46:MD:333:VAL:HG21	2.50	0.47
45:ME:171:ILE:HD11	45:ME:206:ASN:OD1	2.14	0.47
45:ME:223:THR:HG22	45:ME:224:TYR:H	1.79	0.47
45:ME:282:TYR:HE1	45:ME:371:VAL:HG22	1.80	0.47
45:ME:427:ALA:O	45:ME:430:LYS:HB3	2.15	0.47
45:MG:195:LEU:HD21	45:MG:264:ARG:HD2	1.97	0.47
45:MI:214:ARG:HH12	46:MJ:324:LYS:HZ1	1.63	0.47
46:MJ:179:VAL:HG23	46:MJ:180:VAL:HG23	1.95	0.47
45:MM:317:MET:HG2	45:MM:377:MET:HB3	1.96	0.47
45:MM:345:ASP:OD2	45:MM:346:TRP:N	2.48	0.47
46:MN:148:GLY:O	46:MN:152:ILE:HG12	2.13	0.47
45:NC:219:ILE:HG13	45:NC:221:ARG:H	1.78	0.47
45:NC:222:PRO:HD2	46:ND:324:LYS:CE	2.44	0.47
46:NF:248:SER:HA	46:NF:252:LYS:HD2	1.97	0.47
45:NG:231:ILE:O	45:NG:235:ILE:HG12	2.15	0.47
46:NH:378:PHE:HB3	46:NH:415:MET:HE1	1.97	0.47
45:NI:11:GLN:HG3	45:NI:74:VAL:HG11	1.97	0.47
45:NI:186:ASN:OD1	45:NI:187:SER:N	2.48	0.47
46:NJ:86:ARG:HA	46:OJ:281:TYR:CD2	2.50	0.47
46:NJ:200:MET:CE	46:NJ:266:PHE:HB2	2.43	0.47
45:OA:210:TYR:HB3	45:OA:214:ARG:NH2	2.28	0.47
46:OD:204:ASN:HB3	46:OD:208:TYR:CZ	2.50	0.47
46:OD:418:LEU:O	46:OD:422:TYR:HB2	2.15	0.47
45:OE:128:ASN:HD21	45:PE:285:GLN:HE22	1.63	0.47
45:OE:210:TYR:OH	46:OF:323:THR:OG1	2.33	0.47
46:OF:158:GLU:OE1	46:OF:158:GLU:N	2.47	0.47
46:OF:240:LEU:HD21	46:OF:249:ASP:HA	1.97	0.47
46:OH:9:GLY:HA2	46:OH:66:MET:O	2.15	0.47
46:OH:203:ASP:HB3	46:OH:301:CYS:HA	1.96	0.47
45:OI:202:VAL:HG12	45:OI:204:LEU:HG	1.96	0.47
46:OJ:285:THR:HB	46:OJ:287:PRO:HD2	1.96	0.47
45:OK:27:GLU:HG3	45:OK:361:THR:HG21	1.95	0.47
45:OK:372:MET:N	45:OK:372:MET:SD	2.88	0.47
45:OM:177:VAL:HG13	46:ON:327:ASP:HB3	1.96	0.47
46:PB:248:SER:HA	46:PB:252:LYS:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PC:71:GLU:OE1	46:PD:2:ARG:NH2	2.48	0.47
45:PC:200:VAL:HG13	45:PC:268:MET:CE	2.45	0.47
45:PC:263:PRO:HD3	46:PF:396:HIS:NE2	2.30	0.47
45:PE:8:HIS:HB2	45:PE:67:PHE:HD2	1.78	0.47
45:PE:167:LEU:HD13	45:PE:200:VAL:HB	1.95	0.47
46:PF:175:VAL:HG22	46:PF:205:GLU:HB3	1.96	0.47
45:PI:141:VAL:HG22	45:PI:187:SER:HA	1.96	0.47
46:PJ:21:TRP:CZ2	46:PJ:63:ALA:HB2	2.49	0.47
45:PK:254:GLU:HA	45:PK:257:THR:OG1	2.15	0.47
45:PK:320:ARG:HB2	45:PK:358:GLN:O	2.14	0.47
46:PL:156:ARG:NH2	46:PL:160:PRO:O	2.48	0.47
46:PL:203:ASP:OD2	46:PL:377:MET:HE1	2.15	0.47
46:PL:287:PRO:HG3	46:PL:329:GLN:NE2	2.29	0.47
45:PM:183:GLU:N	45:PM:184:PRO:HD2	2.29	0.47
46:PN:21:TRP:HA	46:PN:24:ILE:HG22	1.95	0.47
46:PN:259:PRO:HG3	46:PN:311:LEU:HD23	1.97	0.47
45:QA:55:GLU:OE1	45:QA:61:HIS:NE2	2.47	0.47
45:QA:188:ILE:HD11	45:QA:391:LEU:HB3	1.95	0.47
45:QA:214:ARG:HD2	45:QA:215:ARG:N	2.30	0.47
45:QC:28:HIS:NE2	45:QC:48:ALA:O	2.48	0.47
45:QC:31:GLN:HG2	45:QC:35:GLN:O	2.15	0.47
45:QC:371:VAL:HG22	45:QC:373:ARG:H	1.78	0.47
46:QD:205:GLU:HG2	46:QD:206:ALA:N	2.29	0.47
46:QD:375:GLN:HG3	46:QD:419:VAL:HG13	1.97	0.47
46:QF:375:GLN:HE21	46:QF:379:LYS:HE2	1.80	0.47
45:QG:141:VAL:HG22	45:QG:187:SER:HA	1.95	0.47
45:QG:208:ALA:O	45:QG:212:ILE:HG12	2.15	0.47
46:QH:167:PHE:CZ	46:QH:233:MET:HG3	2.50	0.47
45:QI:76:ASP:O	45:QI:80:THR:HG23	2.15	0.47
45:QI:184:PRO:O	45:QI:188:ILE:HG12	2.15	0.47
46:QJ:22:GLU:HG2	46:QJ:81:PHE:CD1	2.46	0.47
45:QK:28:HIS:NE2	45:QK:48:ALA:O	2.48	0.47
46:QL:48:ASN:O	46:QL:62:ARG:NH1	2.44	0.47
46:QL:65:LEU:HD22	46:QL:90:PHE:CE1	2.49	0.47
46:QN:102:ALA:HB1	46:QN:401:GLU:HB2	1.95	0.47
45:RA:109:THR:HG22	45:RA:110:ILE:HG23	1.95	0.47
46:RB:31:ASP:OD2	46:RB:37:HIS:ND1	2.48	0.47
46:RD:21:TRP:CZ2	46:RD:63:ALA:HB2	2.50	0.47
46:RD:73:MET:HE3	46:RD:92:PHE:HB3	1.97	0.47
45:RE:15:GLN:NE2	47:RE:501:GTP:O6	2.48	0.47
46:RF:259:PRO:HG2	46:RF:311:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:321:MET:N	46:RF:321:MET:SD	2.87	0.47
46:RF:327:ASP:HA	46:RF:330:MET:HG2	1.96	0.47
45:RG:324:VAL:O	45:RG:328:VAL:HG23	2.15	0.47
46:RH:12:CYS:HA	46:RH:15:GLN:NE2	2.27	0.47
46:RH:272:PRO:HB3	46:RH:282:ARG:HH22	1.79	0.47
46:RH:344:TRP:HB3	46:RH:430:ALA:HB2	1.95	0.47
45:RI:64:ARG:NH1	45:RI:129:CYS:SG	2.88	0.47
45:RI:76:ASP:HA	45:RI:79:ARG:HH12	1.80	0.47
45:RI:265:ILE:HG12	45:RI:432:TYR:CE2	2.50	0.47
46:RJ:83:GLN:CD	46:RJ:83:GLN:H	2.18	0.47
46:RL:249:ASP:OD1	46:RL:252:LYS:N	2.44	0.47
46:RL:350:LYS:HD3	45:RM:180:ALA:HA	1.96	0.47
46:RN:262:ARG:NH1	46:RN:421:GLU:OE1	2.47	0.47
46:SB:130:LEU:HD21	46:SB:133:PHE:CE2	2.50	0.47
45:SC:340:THR:HG23	45:SC:341:ILE:HG12	1.96	0.47
45:SE:166:LYS:N	45:SE:199:ASP:OD2	2.44	0.47
45:SE:229:ARG:NH2	45:SE:362:VAL:HG23	2.29	0.47
46:SF:318:ARG:HD3	46:SF:358:PRO:HD3	1.96	0.47
46:SF:345:ILE:HA	45:SG:398:MET:HE1	1.97	0.47
45:SG:85:GLN:OE1	45:SG:85:GLN:N	2.37	0.47
46:SH:97:ALA:HA	46:SH:103:LYS:HE2	1.97	0.47
46:SH:347:ASN:O	45:SI:181:VAL:HG12	2.14	0.47
45:SI:89:PRO:HD2	45:TI:280:LYS:HZ1	1.80	0.47
45:SI:274:PRO:HG3	45:SI:286:LEU:HD12	1.95	0.47
46:SJ:334:GLN:HA	46:SJ:341:PHE:CE1	2.49	0.47
46:SN:293:MET:CE	46:SN:367:PHE:HB2	2.45	0.47
46:TB:253:LEU:HA	46:TB:350:LYS:HZ3	1.79	0.47
45:TC:10:GLY:O	45:TC:14:ILE:HG12	2.15	0.47
45:TC:98:ASP:OD1	45:TC:99:ALA:N	2.48	0.47
45:TC:141:VAL:HG12	45:TC:171:ILE:O	2.14	0.47
46:TD:213:ARG:HG3	46:TD:214:THR:HG23	1.97	0.47
45:TE:19:ALA:HA	45:TE:22:GLU:OE1	2.15	0.47
46:TF:270:PHE:HD2	46:TF:273:LEU:HD21	1.80	0.47
45:TG:19:ALA:HA	45:TG:22:GLU:OE1	2.15	0.47
45:TI:288:VAL:O	45:TI:292:THR:HG23	2.15	0.47
46:TJ:21:TRP:CZ3	46:TJ:61:PRO:HB3	2.50	0.47
45:TK:72:PRO:HA	45:TK:75:ILE:HD13	1.95	0.47
45:TK:141:VAL:HG12	45:TK:171:ILE:O	2.14	0.47
45:TK:157:LEU:HA	45:TK:160:ASP:HB2	1.95	0.47
46:TL:282:ARG:HE	46:TL:283:ALA:H	1.61	0.47
45:TM:185:TYR:HE2	45:TM:404:PHE:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TN:73:MET:HE3	46:TN:92:PHE:HB3	1.97	0.47
45:UC:175:PRO:HA	45:UC:390:ARG:NE	2.29	0.47
46:UD:16:ILE:HD13	46:UD:226:ASN:OD1	2.15	0.47
45:UG:174:SER:OG	45:UG:207:GLU:HB2	2.15	0.47
46:UH:131:GLN:O	46:UH:163:ILE:HG12	2.14	0.47
45:UK:223:THR:HG23	45:UK:225:THR:H	1.79	0.47
46:UL:86:ARG:HG3	46:UL:88:ASP:H	1.78	0.47
46:UN:285:THR:O	46:UN:288:GLU:HG3	2.14	0.47
45:VA:222:PRO:HD2	46:VB:324:LYS:HZ1	1.78	0.47
45:VA:301:MET:HA	45:VA:301:MET:HE3	1.96	0.47
45:VA:392:ASP:OD2	45:VA:425:LEU:HD22	2.14	0.47
46:VB:156:ARG:HD3	46:VB:164:MET:CE	2.45	0.47
45:VC:147:SER:HB2	45:VC:190:SER:HB3	1.96	0.47
45:VC:390:ARG:O	45:VC:394:LYS:HG3	2.14	0.47
46:VD:117:LEU:HA	46:VD:120:VAL:HG12	1.96	0.47
45:VE:7:ILE:HD13	45:VE:153:LEU:HD21	1.96	0.47
45:VE:103:PHE:H	45:VE:408:TYR:HE2	1.62	0.47
45:VG:326:LYS:HZ3	46:VJ:220:PRO:CD	2.25	0.47
45:VI:210:TYR:HA	45:VI:213:CYS:SG	2.55	0.47
45:VK:5:ILE:HD12	45:VK:135:PHE:HE1	1.78	0.47
46:VL:405:GLU:OE2	46:VL:409:THR:OG1	2.31	0.47
46:VN:257:LEU:HD11	46:VN:314:SER:HB3	1.95	0.47
45:WA:100:ALA:HA	46:WB:252:LYS:CD	2.44	0.47
46:WB:101:TRP:HB3	46:WB:398:TYR:HE1	1.80	0.47
46:WB:139:LEU:HD13	46:WB:168:SER:HB3	1.96	0.47
46:WB:190:HIS:CD2	46:WB:411:ALA:HA	2.50	0.47
45:WC:133:GLN:HE21	45:WC:252:ILE:H	1.62	0.47
45:WE:100:ALA:HA	46:WF:252:LYS:HG2	1.96	0.47
45:WE:174:SER:HB3	45:WE:207:GLU:HG3	1.97	0.47
45:WG:29:GLY:O	45:WG:40:LYS:NZ	2.32	0.47
45:WG:340:THR:HG23	45:WG:341:ILE:HG13	1.97	0.47
45:WI:269:LEU:HD23	45:WI:379:SER:O	2.14	0.47
46:WJ:94:GLN:OE1	46:WJ:94:GLN:N	2.47	0.47
46:WJ:205:GLU:HA	46:WJ:208:TYR:HD2	1.79	0.47
46:WJ:287:PRO:HA	46:WJ:290:THR:HG22	1.96	0.47
45:WK:107:HIS:ND1	45:WK:107:HIS:O	2.48	0.47
45:WK:223:THR:HG23	45:WK:225:THR:H	1.79	0.47
45:WK:257:THR:HA	46:WN:397:TRP:CZ2	2.50	0.47
45:WM:222:PRO:HD2	46:WN:324:LYS:CE	2.43	0.47
46:WN:108:GLU:O	46:WN:111:GLU:HG3	2.14	0.47
17:1F:152:HIS:NE2	46:GL:88:ASP:OD1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:317:VAL:HG11	45:IK:285:GLN:HB2	1.96	0.47
14:1V:101:ILE:HD12	45:LI:415:GLU:OE1	2.14	0.47
15:1X:3:ARG:HD3	46:MH:15:GLN:HE21	1.79	0.47
1:2A:91:ASN:HA	46:MJ:37:HIS:HE1	1.79	0.47
4:2D:99:ARG:NH2	45:EK:364:PRO:HA	2.28	0.47
4:2D:224:ARG:HH22	34:5R:492:ILE:HG23	1.78	0.47
11:2S:150:GLN:HE21	45:WG:161:TYR:C	2.13	0.47
34:4R:13:PRO:HB3	46:LF:228:LEU:HD23	1.97	0.47
37:5E:129:ARG:HD3	37:5E:130:PRO:O	2.15	0.47
37:5F:69:LYS:HD3	37:5F:70:GLU:N	2.30	0.47
37:5H:44:ARG:NH1	45:OK:285:GLN:HA	2.28	0.47
34:7R:322:THR:OG1	34:7R:324:LYS:HG2	2.14	0.47
34:7R:432:SER:HA	34:7R:502:ARG:HH21	1.78	0.47
45:AA:98:ASP:OD2	45:AA:99:ALA:N	2.48	0.47
45:AA:384:ILE:O	45:AA:387:VAL:HG22	2.15	0.47
45:AA:439:THR:HG21	46:AD:390:ARG:HD2	1.96	0.47
45:AC:328:VAL:HG11	45:AC:353:VAL:HG11	1.97	0.47
45:AE:152:LEU:O	45:AE:156:ARG:HG2	2.15	0.47
46:AF:22:GLU:HG2	46:AF:81:PHE:CD1	2.50	0.47
46:AF:51:TYR:HE2	46:AF:61:PRO:HG3	1.80	0.47
45:AG:76:ASP:OD2	46:AH:46:ARG:NH2	2.47	0.47
46:AN:47:ILE:HD12	46:AN:47:ILE:H	1.79	0.47
45:BE:22:GLU:HG3	45:BE:83:TYR:OH	2.14	0.47
45:BE:215:ARG:NH2	45:BE:216:ASN:OD1	2.48	0.47
45:BI:227:LEU:O	45:BI:231:ILE:HG12	2.15	0.47
45:BI:287:SER:O	45:BI:290:GLU:HG2	2.14	0.47
46:BJ:132:GLY:HA3	46:BJ:163:ILE:HG22	1.95	0.47
46:BJ:180:VAL:O	46:BJ:180:VAL:HG12	2.15	0.47
46:BJ:273:LEU:H	46:BJ:292:GLN:NE2	2.13	0.47
45:BM:387:VAL:HG12	45:BM:390:ARG:NH1	2.30	0.47
45:CA:352:LYS:HD2	46:CB:178:THR:HA	1.97	0.47
45:CC:11:GLN:HA	45:CC:14:ILE:HD13	1.97	0.47
45:CC:328:VAL:HG11	45:CC:353:VAL:HG21	1.97	0.47
45:CG:3:GLU:HB2	45:CG:129:CYS:SG	2.55	0.47
45:CI:143:GLY:HA3	47:CI:501:GTP:O2B	2.15	0.47
45:CM:287:SER:HB3	45:CM:290:GLU:HG2	1.96	0.47
46:CN:116:VAL:HA	46:CN:119:VAL:HG12	1.96	0.47
46:CN:166:THR:HG21	46:CN:192:LEU:HD11	1.95	0.47
46:CN:372:THR:HA	46:CN:422:TYR:HE2	1.80	0.47
46:DF:274:THR:HG22	46:DF:282:ARG:CZ	2.44	0.47
46:DH:119:VAL:HA	46:DH:122:LYS:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DL:406:MET:O	46:DL:410:GLU:HG2	2.14	0.47
46:EB:52:ASN:OD1	46:EB:53:GLU:N	2.47	0.47
45:EC:338:LYS:NZ	45:EC:340:THR:H	2.13	0.47
45:EG:322:ASP:OD1	45:EG:373:ARG:NH1	2.46	0.47
46:EH:99:ASN:HA	46:EH:142:GLY:H	1.79	0.47
46:EH:228:LEU:HD11	46:EH:273:LEU:HD11	1.97	0.47
46:EH:416:ASN:OD1	46:EH:417:ASP:N	2.48	0.47
45:EK:280:LYS:HA	45:EK:283:HIS:ND1	2.30	0.47
45:EK:329:ASN:HB3	46:EL:175:VAL:HG12	1.97	0.47
46:EL:253:LEU:HD12	46:EL:257:LEU:HD13	1.96	0.47
45:EM:328:VAL:O	45:EM:332:ILE:HG12	2.15	0.47
45:FE:141:VAL:HG12	45:FE:171:ILE:O	2.14	0.47
45:FI:407:TRP:CZ2	46:FJ:258:ILE:HD11	2.47	0.47
46:GB:313:ALA:HB1	46:GB:367:PHE:HE1	1.79	0.47
46:GH:218:THR:HG23	46:GH:219:THR:HG23	1.97	0.47
46:GJ:19:LYS:HD3	46:GJ:19:LYS:HA	1.78	0.47
46:GJ:326:VAL:O	46:GJ:330:MET:HG2	2.15	0.47
46:GN:267:MET:HE1	46:GN:303:ALA:HB3	1.95	0.47
46:HB:3:GLU:HB2	46:HB:62:ARG:NH2	2.29	0.47
45:HE:180:ALA:HA	46:HF:350:LYS:HZ3	1.80	0.47
45:HE:257:THR:HG22	46:HH:397:TRP:CH2	2.49	0.47
45:HG:334:THR:O	45:HG:338:LYS:HG2	2.15	0.47
46:HJ:376:GLU:O	46:HJ:380:ARG:HG2	2.15	0.47
45:HK:88:HIS:CD2	45:HK:90:GLU:H	2.32	0.47
46:HN:372:THR:HA	46:HN:422:TYR:HE2	1.80	0.47
45:IC:74:VAL:HA	45:IC:77:GLU:HG3	1.97	0.47
45:IC:209:ILE:HD11	45:IC:302:MET:HB3	1.96	0.47
45:IG:174:SER:HB2	45:IG:177:VAL:O	2.15	0.47
45:IG:434:GLU:O	45:IG:437:ILE:HG12	2.14	0.47
46:IH:31:ASP:OD1	46:IH:35:THR:N	2.43	0.47
45:II:89:PRO:HD3	46:JJ:281:TYR:CD1	2.48	0.47
46:IJ:294:PHE:HD2	46:IJ:333:VAL:HG21	1.79	0.47
45:IM:270:SER:O	45:IM:302:MET:HG3	2.14	0.47
46:JB:148:GLY:O	46:JB:152:ILE:HG13	2.15	0.47
46:JB:292:GLN:NE2	46:JB:298:ASN:OD1	2.46	0.47
45:JE:241:SER:OG	45:JE:249:ASN:OD1	2.30	0.47
46:JF:86:ARG:NH2	46:KF:281:TYR:O	2.45	0.47
46:JH:222:TYR:O	46:JH:226:ASN:ND2	2.23	0.47
46:JJ:2:ARG:HD2	46:JJ:240:LEU:HG	1.96	0.47
46:JL:256:ASN:O	46:JL:312:THR:HG21	2.14	0.47
45:KC:75:ILE:O	45:KC:79:ARG:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KD:174:LYS:HB2	46:KD:205:GLU:OE1	2.13	0.47
45:KE:81:GLY:O	45:KE:84:ARG:HG3	2.15	0.47
45:KI:27:GLU:OE2	45:KI:28:HIS:CD2	2.68	0.47
45:KI:183:GLU:N	45:KI:184:PRO:HD2	2.29	0.47
46:KL:286:VAL:HG21	46:KL:325:GLU:HG3	1.95	0.47
46:KL:372:THR:HG21	46:KL:426:GLN:HB2	1.97	0.47
45:KM:178:SER:HB3	46:KN:347:ASN:ND2	2.30	0.47
45:LG:296:PHE:HE2	45:LG:335:ILE:HG21	1.79	0.47
45:LI:426:ALA:O	45:LI:429:GLU:HG3	2.13	0.47
45:MC:282:TYR:OH	45:MC:371:VAL:HA	2.14	0.47
46:MD:101:TRP:HB2	46:MD:184:ASN:HB3	1.96	0.47
45:ME:339:ARG:HD3	45:ME:339:ARG:O	2.15	0.47
46:MF:192:LEU:HD21	46:MF:199:CYS:HB2	1.96	0.47
45:MG:251:ASP:OD1	45:MG:252:ILE:N	2.48	0.47
45:MI:98:ASP:OD1	45:MI:99:ALA:N	2.48	0.47
46:MJ:19:LYS:NZ	46:MJ:227:HIS:HB2	2.30	0.47
46:MJ:104:GLY:O	46:MJ:147:MET:N	2.48	0.47
45:MM:103:PHE:HB2	45:MM:186:ASN:HB3	1.97	0.47
45:NA:205:ASP:OD1	45:NA:303:ALA:HA	2.15	0.47
46:ND:145:SER:HB2	46:ND:188:SER:HB3	1.97	0.47
45:NE:352:LYS:HZ1	46:NH:179:VAL:HG22	1.79	0.47
45:NG:19:ALA:HA	45:NG:22:GLU:HG2	1.97	0.47
45:NG:91:GLN:HB3	45:NG:121:ARG:CZ	2.44	0.47
45:NI:150:GLY:O	45:NI:154:LEU:HG	2.14	0.47
45:NM:392:ASP:OD1	45:NM:422:ARG:NE	2.48	0.47
46:OB:122:LYS:NZ	46:PB:291:GLN:OE1	2.48	0.47
45:OC:254:GLU:OE2	46:OF:98:GLY:HA2	2.15	0.47
45:OE:112:LYS:HA	45:OE:115:VAL:HG22	1.95	0.47
45:OG:88:HIS:HB3	45:OG:91:GLN:OE1	2.15	0.47
45:OG:208:ALA:O	45:OG:212:ILE:HG12	2.14	0.47
46:OH:379:LYS:HE3	46:OH:379:LYS:HB2	1.75	0.47
46:OJ:49:VAL:HG11	46:OJ:241:ARG:HG2	1.97	0.47
46:OJ:66:MET:HA	46:OJ:91:VAL:O	2.14	0.47
45:OK:203:MET:HG3	45:OK:384:ILE:HD11	1.97	0.47
45:OM:224:TYR:HD2	46:ON:323:THR:HG21	1.80	0.47
46:PH:345:ILE:O	46:PH:345:ILE:HG13	2.15	0.47
45:PI:221:ARG:HA	45:PI:221:ARG:NE	2.30	0.47
46:PJ:39:ASP:OD1	46:PJ:40:SER:N	2.48	0.47
46:PJ:268:ILE:HG13	46:PJ:300:MET:HG3	1.96	0.47
45:PM:408:TYR:O	45:PM:413:MET:HG3	2.15	0.47
46:PN:245:GLN:OE1	46:PN:246:LEU:HD12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QA:314:ALA:HB3	45:QA:380:ASN:OD1	2.15	0.47
46:QB:87:PRO:HA	46:QB:90:PHE:CE1	2.50	0.47
46:QF:6:HIS:O	46:QF:63:ALA:HA	2.14	0.47
46:QF:208:TYR:CE2	46:QF:225:LEU:HD11	2.50	0.47
45:QG:69:ASP:OD1	45:QG:70:LEU:N	2.48	0.47
45:QG:313:MET:HB3	45:QG:380:ASN:O	2.15	0.47
46:QJ:20:PHE:HA	46:QJ:230:SER:HB2	1.97	0.47
45:RA:141:VAL:HG11	45:RA:172:TYR:CD1	2.50	0.47
46:RB:116:VAL:O	46:RB:120:VAL:HG23	2.15	0.47
45:RC:288:VAL:O	45:RC:291:ILE:HG22	2.15	0.47
45:RE:395:PHE:CD1	45:RE:422:ARG:HD3	2.50	0.47
46:RF:54:ALA:HB3	46:RF:58:ARG:HG2	1.96	0.47
46:RF:405:GLU:HA	46:RF:408:PHE:CD2	2.50	0.47
46:RH:2:ARG:HG3	46:RH:240:LEU:HD11	1.97	0.47
45:RI:268:MET:HG2	45:RI:380:ASN:HB2	1.97	0.47
46:SD:99:ASN:HA	46:SD:142:GLY:H	1.79	0.47
46:SH:299:MET:HG3	46:SH:301:CYS:H	1.79	0.47
45:SI:11:GLN:HG3	45:SI:74:VAL:HG11	1.96	0.47
45:SI:133:GLN:O	45:SI:165:SER:OG	2.33	0.47
46:SJ:317:PHE:HD1	46:SJ:365:VAL:HG22	1.80	0.47
45:SK:245:ASP:OD2	45:SK:245:ASP:N	2.42	0.47
46:SN:16:ILE:HD12	46:SN:229:VAL:HG11	1.97	0.47
45:TA:288:VAL:HG11	45:TA:327:ASP:HB3	1.96	0.47
45:TC:118:CYS:O	45:TC:122:ILE:HG12	2.15	0.47
46:TD:202:ILE:HD11	46:TD:207:LEU:HD21	1.95	0.47
45:TE:75:ILE:HD12	45:TE:75:ILE:H	1.79	0.47
45:TI:336:LYS:HD3	45:TI:351:PHE:CE2	2.49	0.47
46:TL:266:PHE:CE1	46:TL:370:ASN:HB2	2.49	0.47
45:TM:335:ILE:O	45:TM:338:LYS:HG2	2.15	0.47
46:UB:372:THR:HA	46:UB:422:TYR:CE2	2.50	0.47
45:UE:356:ASN:OD1	45:UE:357:TYR:N	2.48	0.47
46:UL:325:GLU:OE2	46:UL:325:GLU:N	2.47	0.47
45:UM:240:ALA:HB3	45:UM:320:ARG:NH2	2.30	0.47
46:VB:226:ASN:HD21	49:VB:501:GDP:HN1	1.63	0.47
46:VD:268:ILE:N	46:VD:299:MET:HE1	2.30	0.47
45:VG:68:LEU:HD21	45:VG:149:LEU:HD12	1.97	0.47
46:VJ:178:THR:HG22	46:VJ:180:VAL:H	1.80	0.47
45:VK:280:LYS:HG3	45:VK:283:HIS:HB2	1.97	0.47
45:VK:420:GLU:HA	45:VK:423:GLU:CD	2.34	0.47
46:VN:119:VAL:HA	46:VN:122:LYS:HG2	1.96	0.47
45:WE:337:THR:O	45:WE:339:ARG:NH1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WE:372:MET:SD	45:WE:373:ARG:HD3	2.55	0.47
46:WF:108:GLU:O	46:WF:111:GLU:HG3	2.15	0.47
45:WK:14:ILE:HD12	45:WK:67:PHE:HB3	1.97	0.47
45:WK:134:GLY:HA2	45:WK:164:LYS:HE3	1.95	0.47
45:WK:207:GLU:HA	45:WK:210:TYR:CD2	2.50	0.47
46:WL:45:GLU:HG3	46:WL:46:ARG:CD	2.44	0.47
45:WM:10:GLY:O	45:WM:14:ILE:HG12	2.13	0.47
45:WM:185:TYR:O	45:WM:189:LEU:HG	2.14	0.47
45:CE:22:GLU:HG3	45:CE:83:TYR:OH	2.15	0.47
45:CE:384:ILE:O	45:CE:387:VAL:HG22	2.15	0.47
9:0N:249:LEU:HD23	46:KN:77:ARG:HH11	1.79	0.47
1:1A:125:LEU:N	46:AF:276:ARG:HH12	2.13	0.47
3:1C:121:LEU:HD11	45:DM:22:GLU:OE1	2.15	0.47
7:1G:103:THR:HG22	46:JB:355:ASP:HB2	1.96	0.47
24:1P:192:ASN:HB3	46:TH:360:GLY:HA2	1.97	0.47
11:1S:96:LEU:HD11	46:MF:190:HIS:CE1	2.44	0.47
21:2L:525:LEU:CD2	46:BN:362:LYS:HB3	2.45	0.47
25:2R:87:LEU:HD12	45:MG:85:GLN:HE22	1.80	0.47
11:2S:104:THR:HG22	46:MJ:156:ARG:NH2	2.29	0.47
12:2T:74:ILE:HD12	45:MG:159:VAL:CG2	2.44	0.47
14:2V:44:SER:HA	45:LE:96:LYS:HD2	1.97	0.47
34:4R:512:THR:O	34:4R:516:MET:HG2	2.14	0.47
35:4S:148:LYS:O	35:4S:152:THR:HG23	2.14	0.47
36:5B:79:LEU:O	36:5B:83:THR:HG23	2.15	0.47
37:5E:54:LYS:NZ	46:OB:224:ASP:HA	2.29	0.47
37:5F:143:GLY:HA2	46:OH:280:GLN:OE1	2.14	0.47
10:5Q:21:PRO:HG2	10:5Q:36:ARG:HD3	1.97	0.47
10:5Q:26:ASP:HB2	10:5Q:63:ALA:HA	1.96	0.47
34:5R:419:GLN:HB3	34:5R:448:CYS:SG	2.54	0.47
35:5S:153:LYS:HA	35:5S:158:MET:CE	2.45	0.47
39:6F:66:ASN:OD1	39:6F:67:SER:N	2.48	0.47
10:6Q:90:GLU:HG2	10:6Q:155:GLN:HB3	1.97	0.47
34:6R:311:LYS:N	34:6R:327:GLU:O	2.41	0.47
34:7R:353:ASP:OD1	34:7R:356:THR:OG1	2.20	0.47
45:AC:121:ARG:HH12	45:AC:124:LYS:HD2	1.80	0.47
45:AE:1:MET:HE2	46:AH:70:PRO:HG2	1.95	0.47
45:AI:317:MET:HB3	45:AI:377:MET:HG2	1.97	0.47
46:AN:345:ILE:HG22	46:AN:348:ASN:HB3	1.97	0.47
45:BA:89:PRO:HD2	45:CA:280:LYS:HE3	1.96	0.47
46:BD:19:LYS:HE2	46:BD:22:GLU:OE2	2.15	0.47
45:BG:393:HIS:O	45:BG:397:LEU:HD23	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BI:288:VAL:HA	45:BI:291:ILE:HG12	1.97	0.47
45:BK:231:ILE:O	45:BK:235:ILE:HG12	2.14	0.47
46:BL:130:LEU:HB3	46:BL:162:ARG:HD2	1.97	0.47
45:BM:217:LEU:O	45:BM:219:ILE:HG23	2.15	0.47
46:BN:42:LEU:HD22	46:BN:356:ILE:HD11	1.97	0.47
46:BN:86:ARG:CZ	46:BN:87:PRO:HD2	2.45	0.47
45:CC:326:LYS:HZ3	46:CD:220:PRO:HD2	1.79	0.47
46:CD:12:CYS:O	46:CD:16:ILE:HG12	2.15	0.47
46:CD:217:LEU:HD12	46:CD:220:PRO:HD3	1.97	0.47
46:CF:177:ASP:O	45:CE:352:LYS:HA	2.15	0.47
46:CH:375:GLN:HG2	46:CH:376:GLU:OE1	2.15	0.47
45:CI:90:GLU:OE2	45:CI:121:ARG:NH2	2.48	0.47
46:DB:134:GLN:NE2	46:DB:165:GLU:OE2	2.48	0.47
46:DB:158:GLU:HG2	46:DB:159:TYR:CD1	2.50	0.47
45:DG:2:ARG:HG3	45:DG:242:LEU:HD21	1.97	0.47
45:DG:89:PRO:HG2	45:EG:280:LYS:NZ	2.30	0.47
45:DG:408:TYR:HA	45:DG:411:GLU:OE2	2.14	0.47
46:DJ:210:ILE:HD13	46:DJ:298:ASN:HA	1.95	0.47
45:DK:207:GLU:HA	45:DK:210:TYR:CD2	2.50	0.47
45:EA:288:VAL:HG11	45:EA:327:ASP:HB3	1.96	0.47
45:EC:141:VAL:HG12	45:EC:171:ILE:O	2.14	0.47
46:ED:324:LYS:HE2	45:EE:210:TYR:HD1	1.80	0.47
45:EE:206:ASN:O	45:EE:210:TYR:HD2	1.98	0.47
46:EF:221:THR:HG23	46:EF:223:GLY:H	1.79	0.47
45:EG:69:ASP:O	45:EG:94:SER:HA	2.15	0.47
45:EG:229:ARG:HH11	45:EG:366:GLY:HA2	1.79	0.47
45:EM:169:PHE:HD1	45:EM:202:VAL:HB	1.80	0.47
45:EM:269:LEU:HD11	45:EM:384:ILE:HG12	1.97	0.47
46:FB:313:ALA:HB1	46:FB:367:PHE:CE1	2.50	0.47
45:FE:183:GLU:N	45:FE:184:PRO:HD2	2.30	0.47
46:FF:310:TYR:CD1	46:FF:371:SER:HB3	2.50	0.47
46:FH:378:PHE:HA	46:FH:381:VAL:HG12	1.97	0.47
45:FI:280:LYS:HA	45:FI:283:HIS:ND1	2.30	0.47
45:FK:394:LYS:NZ	46:FL:346:PRO:HG2	2.30	0.47
46:FL:65:LEU:HD22	46:FL:90:PHE:HE1	1.80	0.47
46:FL:260:PHE:HB2	46:FL:263:LEU:HD12	1.97	0.47
45:GC:322:ASP:OD1	45:GC:373:ARG:NH1	2.48	0.47
45:GE:172:TYR:OH	45:GE:191:THR:HG22	2.15	0.47
45:GE:176:GLN:NE2	45:GE:177:VAL:HG23	2.29	0.47
45:GI:174:SER:HB2	45:GI:177:VAL:O	2.15	0.47
45:GK:387:VAL:HA	45:GK:390:ARG:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:406:MET:O	46:GN:410:GLU:OE1	2.33	0.47
45:HA:54:SER:HB3	45:HA:64:ARG:HE	1.79	0.47
45:HA:68:LEU:HD21	45:HA:118:CYS:SG	2.55	0.47
45:HC:209:ILE:HG23	45:HC:227:LEU:HD22	1.97	0.47
45:HI:17:GLY:HA2	45:HI:20:CYS:SG	2.55	0.47
46:HJ:117:LEU:HA	46:HJ:120:VAL:HG12	1.96	0.47
45:HK:205:ASP:HB2	45:HK:303:ALA:HA	1.96	0.47
46:HL:201:VAL:O	46:HL:202:ILE:HD13	2.13	0.47
46:ID:139:LEU:HD13	46:ID:168:SER:HB3	1.97	0.47
46:ID:409:THR:O	46:ID:412:GLU:HG3	2.15	0.47
46:IJ:145:SER:OG	46:IJ:188:SER:HB3	2.15	0.47
45:IK:434:GLU:O	45:IK:437:ILE:HG12	2.14	0.47
45:JA:329:ASN:HA	45:JA:332:ILE:HG22	1.97	0.47
45:JC:222:PRO:HD2	46:JD:324:LYS:HD3	1.96	0.47
46:JF:150:LEU:O	46:JF:154:LYS:HG2	2.14	0.47
45:JI:67:PHE:HB2	45:JI:92:LEU:HD13	1.96	0.47
46:JJ:201:VAL:HG13	46:JJ:301:CYS:SG	2.54	0.47
45:KA:384:ILE:O	45:KA:387:VAL:HG22	2.14	0.47
45:KE:183:GLU:N	45:KE:184:PRO:HD2	2.29	0.47
45:KE:269:LEU:HG	45:KE:301:MET:CE	2.45	0.47
46:KF:127:CYS:SG	46:KF:130:LEU:HB2	2.55	0.47
46:KH:6:HIS:HE1	46:KH:8:GLN:HB3	1.80	0.47
46:KH:16:ILE:HD13	46:KH:226:ASN:OD1	2.15	0.47
45:KI:331:SER:O	45:KI:335:ILE:HG12	2.15	0.47
45:KK:183:GLU:N	45:KK:184:PRO:HD2	2.30	0.47
45:KM:224:TYR:CD1	47:KM:501:GTP:C6	3.03	0.47
46:KN:375:GLN:HG3	46:KN:379:LYS:HZ2	1.79	0.47
46:LB:279:GLN:OE1	46:LB:279:GLN:N	2.47	0.47
45:LC:260:VAL:HG23	46:LF:397:TRP:HE1	1.79	0.47
46:LD:212:PHE:CE1	46:LD:220:PRO:HG2	2.49	0.47
45:LG:205:ASP:OD2	45:LG:303:ALA:HA	2.15	0.47
45:LK:329:ASN:ND2	46:LN:208:TYR:HE2	2.13	0.47
46:LN:103:LYS:HA	46:LN:107:THR:HG22	1.96	0.47
46:LN:344:TRP:CE3	46:LN:345:ILE:HG23	2.50	0.47
46:MB:137:HIS:HE1	46:MB:166:THR:OG1	1.96	0.47
46:MB:180:VAL:HG12	46:MB:180:VAL:O	2.15	0.47
45:ME:137:VAL:HG12	45:ME:167:LEU:O	2.15	0.47
45:MI:372:MET:N	45:MI:372:MET:SD	2.88	0.47
45:MK:113:GLU:OE1	45:MK:113:GLU:N	2.45	0.47
45:MM:337:THR:O	45:MM:339:ARG:NH1	2.48	0.47
45:NC:177:VAL:HG12	46:ND:331:LEU:HD22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:96:GLY:O	46:ND:103:LYS:NZ	2.48	0.47
46:ND:180:VAL:HG22	46:ND:394:PHE:HD2	1.79	0.47
46:NH:262:ARG:NH1	46:NH:421:GLU:OE2	2.48	0.47
45:NK:108:TYR:O	45:NK:112:LYS:NZ	2.30	0.47
46:NL:296:ALA:HB1	46:NL:305:PRO:HG2	1.96	0.47
45:NM:167:LEU:HG	45:NM:200:VAL:HB	1.97	0.47
45:NM:319:TYR:HB3	45:NM:323:VAL:HG11	1.95	0.47
45:OA:96:LYS:HD3	45:OA:96:LYS:N	2.29	0.47
45:OA:105:ARG:NH1	46:OB:251:ARG:HH21	2.12	0.47
46:OD:200:MET:CE	46:OD:266:PHE:HB2	2.45	0.47
46:OD:226:ASN:OD1	49:OD:501:GDP:N1	2.44	0.47
46:OD:344:TRP:CE3	46:OD:345:ILE:HG23	2.50	0.47
45:OG:7:ILE:HD11	45:OG:122:ILE:HD12	1.97	0.47
46:OH:109:GLY:HA3	46:OH:147:MET:HE1	1.95	0.47
46:OH:140:GLY:HA2	46:OH:181:GLU:OE1	2.15	0.47
46:OL:406:MET:SD	46:OL:407:GLU:N	2.88	0.47
46:ON:398:TYR:HB3	46:ON:403:MET:HG2	1.97	0.47
45:PA:205:ASP:OD1	45:PA:303:ALA:HA	2.15	0.47
45:PC:241:SER:OG	45:PC:250:VAL:O	2.28	0.47
46:PD:333:VAL:HA	46:PD:336:LYS:HG2	1.97	0.47
45:PE:331:SER:O	45:PE:335:ILE:HG12	2.15	0.47
46:PF:86:ARG:HG3	46:PF:88:ASP:OD2	2.14	0.47
46:PF:406:MET:O	46:PF:410:GLU:HG2	2.14	0.47
45:PG:332:ILE:O	45:PG:336:LYS:HG2	2.15	0.47
45:PK:192:HIS:ND1	45:PK:424:ASP:OD2	2.48	0.47
45:PK:227:LEU:O	45:PK:231:ILE:HG12	2.15	0.47
45:PM:288:VAL:HA	45:PM:291:ILE:HG22	1.96	0.47
45:QA:261:PRO:HG3	46:QB:394:PHE:CE2	2.50	0.47
46:QD:201:VAL:HG13	46:QD:301:CYS:SG	2.55	0.47
45:QE:261:PRO:HA	46:QF:394:PHE:CD1	2.49	0.47
45:QG:236:SER:HA	45:QG:239:THR:HG22	1.97	0.47
46:QH:318:ARG:HH11	46:QH:358:PRO:HG3	1.79	0.47
45:QI:261:PRO:HG3	46:QJ:394:PHE:CE1	2.50	0.47
45:QK:17:GLY:HA2	45:QK:20:CYS:SG	2.54	0.47
45:RA:101:ASN:HA	45:RA:144:GLY:H	1.80	0.47
45:RA:184:PRO:O	45:RA:188:ILE:HG12	2.15	0.47
46:RB:189:VAL:O	46:RB:193:VAL:HG13	2.15	0.47
46:RD:406:MET:SD	46:RD:406:MET:N	2.88	0.47
46:RF:320:ARG:HA	46:RF:320:ARG:HD2	1.65	0.47
45:RG:109:THR:HG22	45:RG:110:ILE:HG23	1.97	0.47
46:RJ:3:GLU:HG3	46:RJ:62:ARG:NH1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:203:ASP:OD1	46:RJ:205:GLU:HG3	2.14	0.47
46:RN:282:ARG:NH2	46:RN:292:GLN:OE1	2.43	0.47
45:SA:188:ILE:HD11	45:SA:391:LEU:HB3	1.96	0.47
45:SA:212:ILE:HD11	45:SA:300:ASN:HA	1.97	0.47
46:SB:298:ASN:O	46:SB:298:ASN:ND2	2.47	0.47
46:SF:117:LEU:HA	46:SF:120:VAL:HG22	1.96	0.47
45:SI:275:ILE:HA	45:SI:368:LEU:HD11	1.97	0.47
45:SK:336:LYS:O	45:SK:339:ARG:NH2	2.47	0.47
45:SM:90:GLU:HG2	45:SM:121:ARG:HH12	1.80	0.47
46:SN:105:HIS:CE1	46:SN:150:LEU:HD12	2.49	0.47
45:TC:184:PRO:O	45:TC:188:ILE:HG12	2.15	0.47
45:TE:74:VAL:HA	45:TE:77:GLU:OE2	2.15	0.47
45:TE:192:HIS:HD2	45:TE:421:ALA:HA	1.80	0.47
46:TF:318:ARG:HB2	46:TF:364:ALA:HB3	1.97	0.47
45:TG:286:LEU:N	45:TG:290:GLU:OE2	2.47	0.47
45:TG:419:SER:O	45:TG:422:ARG:N	2.48	0.47
46:TH:69:GLU:CD	46:TH:71:GLY:H	2.17	0.47
46:TJ:377:MET:O	46:TJ:381:VAL:HG23	2.14	0.47
45:TK:98:ASP:OD2	45:TK:99:ALA:N	2.48	0.47
46:TL:406:MET:O	46:TL:410:GLU:HG3	2.15	0.47
45:UG:227:LEU:O	45:UG:231:ILE:HG12	2.15	0.47
45:UM:118:CYS:O	45:UM:122:ILE:HG12	2.14	0.47
45:UM:251:ASP:HB3	45:UM:254:GLU:HG3	1.96	0.47
45:VA:2:ARG:NH2	46:VD:70:PRO:HD2	2.29	0.47
45:VE:98:ASP:OD1	45:VE:99:ALA:N	2.48	0.47
45:VE:167:LEU:HG	45:VE:200:VAL:HB	1.96	0.47
46:VH:18:ALA:O	46:VH:22:GLU:HG3	2.15	0.47
46:VH:310:TYR:CD1	46:VH:371:SER:HB2	2.49	0.47
45:VK:430:LYS:O	45:VK:433:GLU:HG3	2.14	0.47
45:WA:349:THR:OG1	46:WD:176:SER:OG	2.16	0.47
46:WD:19:LYS:NZ	46:WD:227:HIS:HA	2.30	0.47
45:WE:155:GLU:HA	45:WE:197:HIS:CE1	2.49	0.47
45:WE:259:LEU:HD21	45:WE:316:SER:HB3	1.96	0.47
46:WH:9:GLY:HA2	46:WH:66:MET:O	2.15	0.47
45:WI:107:HIS:ND1	45:WI:107:HIS:O	2.48	0.47
46:WJ:232:ALA:HB1	46:WJ:268:ILE:HD12	1.97	0.47
46:WN:420:SER:O	46:WN:423:GLN:HG3	2.14	0.47
45:CE:88:HIS:HB3	45:CE:91:GLN:CD	2.36	0.47
8:1H:253:LEU:HD13	45:HE:364:PRO:HD3	1.97	0.47
19:1J:138:PHE:HD2	45:IE:282:TYR:HE2	1.62	0.47
12:1T:127:GLU:O	45:AC:339:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:2I:96:TRP:CH2	46:GF:291:GLN:HG2	2.50	0.47
25:2R:256:ARG:HG3	45:CG:42:ILE:HD12	1.94	0.47
10:4Q:102:ARG:NE	45:AI:430:LYS:HE3	2.30	0.47
34:7R:336:CYS:HA	34:7R:349:ILE:HB	1.97	0.47
45:AC:283:HIS:HD2	45:MC:60:LYS:NZ	2.12	0.47
46:AD:73:MET:CE	46:AD:92:PHE:HB3	2.45	0.47
45:AE:195:LEU:HD23	45:AE:196:GLU:HG3	1.97	0.47
46:AF:9:GLY:HA2	46:AF:66:MET:O	2.15	0.47
46:AJ:372:THR:HA	46:AJ:422:TYR:CE2	2.46	0.47
45:AM:332:ILE:HG22	45:AM:336:LYS:HE2	1.96	0.47
46:BB:268:ILE:HD12	46:BB:368:VAL:HG22	1.97	0.47
46:BB:372:THR:HA	46:BB:422:TYR:CE2	2.48	0.47
45:BC:319:TYR:CD1	45:BC:375:VAL:HG22	2.50	0.47
45:BG:107:HIS:O	45:BG:107:HIS:ND1	2.48	0.47
46:BH:316:LEU:HG	46:BH:352:SER:HB2	1.96	0.47
46:BL:5:VAL:HG12	46:BL:62:ARG:HD2	1.96	0.47
46:BN:238:CYS:HB2	46:BN:318:ARG:NH2	2.30	0.47
45:CA:261:PRO:HA	46:CB:394:PHE:CD1	2.49	0.47
45:CA:269:LEU:HD23	45:CA:379:SER:O	2.15	0.47
46:CB:70:PRO:HA	46:CB:73:MET:HE3	1.96	0.47
46:CB:350:LYS:HZ3	45:CC:181:VAL:H	1.61	0.47
45:CI:71:GLU:HB3	45:CI:98:ASP:OD2	2.15	0.47
46:CJ:86:ARG:CZ	46:CJ:87:PRO:HD2	2.44	0.47
45:CK:328:VAL:O	45:CK:332:ILE:HG12	2.15	0.47
46:CL:164:MET:HB3	46:CL:197:ASP:H	1.80	0.47
45:CM:121:ARG:HE	45:CM:124:LYS:HE2	1.79	0.47
46:CN:105:HIS:CE1	46:CN:150:LEU:HD12	2.50	0.47
46:DD:290:THR:HG21	46:DD:329:GLN:CD	2.35	0.47
45:DE:107:HIS:ND1	45:DE:107:HIS:O	2.48	0.47
46:DF:256:ASN:HB3	46:DF:257:LEU:HD12	1.95	0.47
45:DG:319:TYR:HE1	45:DG:328:VAL:HG13	1.80	0.47
46:DH:248:SER:HA	46:DH:252:LYS:HD2	1.96	0.47
46:DJ:347:ASN:O	45:DK:181:VAL:HG23	2.15	0.47
45:DK:105:ARG:O	45:DK:110:ILE:HG22	2.15	0.47
45:DM:268:MET:HG2	45:DM:378:ILE:HG22	1.97	0.47
46:EB:66:MET:HE1	46:EB:91:VAL:HG22	1.97	0.47
46:EF:91:VAL:HG21	46:EF:116:VAL:HB	1.97	0.47
46:EF:101:TRP:HB2	46:EF:184:ASN:HB3	1.97	0.47
46:EH:254:ALA:O	46:EH:258:ILE:HG12	2.15	0.47
46:EH:293:MET:SD	46:EH:365:VAL:HG11	2.55	0.47
45:EI:101:ASN:HA	45:EI:144:GLY:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:254:ALA:O	46:EL:258:ILE:HG12	2.15	0.47
46:EN:398:TYR:HB3	46:EN:403:MET:SD	2.55	0.47
46:FF:238:CYS:HB2	46:FF:318:ARG:HE	1.80	0.47
46:FH:31:ASP:OD1	46:FH:35:THR:N	2.45	0.47
46:FH:184:ASN:OD1	46:FH:185:ALA:N	2.48	0.47
45:FI:80:THR:O	45:FI:84:ARG:NH2	2.46	0.47
46:FL:119:VAL:O	46:FL:122:LYS:HB3	2.15	0.47
46:GB:316:LEU:HD13	46:GB:352:SER:HB3	1.96	0.47
46:GD:87:PRO:HA	46:GD:90:PHE:HD2	1.80	0.47
46:GF:175:VAL:HG22	46:GF:205:GLU:HG3	1.97	0.47
46:GF:318:ARG:HH11	46:GF:358:PRO:HG3	1.80	0.47
45:GG:3:GLU:OE2	45:GG:129:CYS:HB3	2.14	0.47
45:GK:384:ILE:O	45:GK:387:VAL:HG22	2.15	0.47
45:GM:141:VAL:HG22	45:GM:187:SER:HA	1.97	0.47
45:GM:231:ILE:O	45:GM:235:ILE:HG12	2.15	0.47
46:HD:116:VAL:HA	46:HD:119:VAL:HG12	1.97	0.47
45:HI:224:TYR:HE2	46:HJ:246:LEU:HD11	1.79	0.47
45:IA:352:LYS:HZ1	46:ID:178:THR:HA	1.80	0.47
45:IA:420:GLU:HA	45:IA:423:GLU:CD	2.35	0.47
45:IE:200:VAL:HG13	45:IE:268:MET:HE2	1.95	0.47
46:IF:167:PHE:CE2	46:IF:233:MET:HG2	2.50	0.47
46:IH:65:LEU:HD22	46:IH:90:PHE:CE1	2.50	0.47
45:IK:136:LEU:HD23	45:IK:167:LEU:HB2	1.97	0.47
45:IK:345:ASP:OD1	45:IK:346:TRP:N	2.48	0.47
45:IM:183:GLU:N	45:IM:184:PRO:HD2	2.29	0.47
45:IM:210:TYR:HB3	46:IN:324:LYS:NZ	2.30	0.47
46:IN:6:HIS:HA	46:IN:134:GLN:HE21	1.80	0.47
46:IN:117:LEU:HA	46:IN:120:VAL:HG12	1.97	0.47
45:JA:439:THR:HB	46:JD:391:ARG:HH11	1.80	0.47
46:JB:6:HIS:O	46:JB:63:ALA:HA	2.14	0.47
45:JK:221:ARG:HA	46:JL:324:LYS:NZ	2.30	0.47
45:JM:24:PHE:HA	45:JM:27:GLU:HG3	1.97	0.47
45:KA:68:LEU:HD11	45:KA:118:CYS:SG	2.54	0.47
45:KA:422:ARG:NH1	45:KA:426:ALA:HB2	2.30	0.47
46:KB:77:ARG:HH12	46:KB:83:GLN:HA	1.79	0.47
46:KB:203:ASP:HB3	46:KB:301:CYS:HA	1.97	0.47
46:KD:192:LEU:HD21	46:KD:199:CYS:SG	2.55	0.47
46:KF:12:CYS:SG	46:KF:169:VAL:HG21	2.54	0.47
45:KG:37:PRO:O	45:KG:39:ASP:N	2.43	0.47
45:KG:411:GLU:OE2	45:KG:411:GLU:N	2.47	0.47
46:KN:22:GLU:HG2	46:KN:81:PHE:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KN:293:MET:HE2	46:KN:367:PHE:HB2	1.96	0.47
45:LA:69:ASP:OD1	45:LA:70:LEU:N	2.47	0.47
45:LA:107:HIS:O	45:LA:107:HIS:ND1	2.48	0.47
45:LA:223:THR:HG22	45:LA:224:TYR:N	2.29	0.47
45:LA:270:SER:N	45:LA:301:MET:HE1	2.30	0.47
46:LB:344:TRP:CE3	46:LB:345:ILE:HG23	2.50	0.47
45:LC:51:THR:HG23	45:LC:52:PHE:CD2	2.50	0.47
46:LH:73:MET:SD	46:LH:92:PHE:HB3	2.55	0.47
46:LH:344:TRP:CE3	46:LH:345:ILE:HG23	2.50	0.47
45:LI:395:PHE:HZ	45:LI:418:PHE:HB3	1.79	0.47
46:LJ:183:TYR:CD1	46:LJ:385:PHE:HE1	2.33	0.47
45:LK:221:ARG:HH22	46:LL:320:ARG:HH21	1.63	0.47
46:LL:5:VAL:HG12	46:LL:62:ARG:HD3	1.97	0.47
45:LM:173:PRO:HB3	45:LM:183:GLU:HG3	1.96	0.47
45:MC:259:LEU:HB3	45:MC:268:MET:SD	2.54	0.47
46:MD:5:VAL:HA	46:MD:62:ARG:HG3	1.97	0.47
45:MG:183:GLU:N	45:MG:184:PRO:HD2	2.30	0.47
45:MG:407:TRP:CZ2	46:MH:258:ILE:HD11	2.49	0.47
45:MI:88:HIS:HB3	45:MI:91:GLN:HG2	1.97	0.47
46:MJ:173:PRO:HG2	46:MJ:380:ARG:HE	1.79	0.47
46:ML:257:LEU:HD21	46:ML:314:SER:HB2	1.96	0.47
45:MM:36:MET:O	45:MM:38:SER:N	2.48	0.47
45:MM:174:SER:HB2	45:MM:177:VAL:O	2.14	0.47
46:NB:237:THR:HG23	46:NB:241:ARG:NH1	2.30	0.47
46:NH:52:ASN:OD1	46:NH:62:ARG:NH2	2.48	0.47
45:NM:101:ASN:HA	45:NM:144:GLY:H	1.80	0.47
45:OE:70:LEU:HD13	45:OE:95:GLY:HA3	1.97	0.47
45:OE:128:ASN:ND2	45:PE:285:GLN:HE22	2.13	0.47
46:OF:86:ARG:HB3	46:OF:89:ASN:ND2	2.29	0.47
45:OG:65:ALA:O	45:OG:91:GLN:NE2	2.48	0.47
46:OH:149:THR:OG1	46:OH:191:GLN:HB2	2.14	0.47
46:OL:263:LEU:HD22	46:OL:422:TYR:CD1	2.49	0.47
45:OM:320:ARG:HG3	45:OM:374:ALA:HB3	1.96	0.47
45:PC:329:ASN:O	45:PC:332:ILE:HG22	2.16	0.47
46:PD:20:PHE:O	46:PD:24:ILE:HG12	2.15	0.47
46:PF:45:GLU:CD	46:PF:46:ARG:HG2	2.35	0.47
45:PG:8:HIS:HB2	45:PG:67:PHE:HD2	1.79	0.47
45:PG:171:ILE:HG23	45:PG:204:LEU:O	2.15	0.47
45:PI:227:LEU:O	45:PI:231:ILE:HG12	2.15	0.47
45:PI:259:LEU:HD11	45:PI:316:SER:OG	2.15	0.47
46:PJ:150:LEU:O	46:PJ:154:LYS:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PK:427:ALA:HA	45:PK:430:LYS:HG2	1.96	0.47
46:QB:318:ARG:HH11	46:QB:358:PRO:HG3	1.79	0.47
45:QE:188:ILE:HG23	45:QE:425:LEU:HD11	1.96	0.47
46:QH:210:ILE:O	46:QH:214:THR:HG22	2.15	0.47
45:QI:352:LYS:NZ	46:QJ:178:THR:HG23	2.30	0.47
46:QJ:275:SER:OG	46:QJ:278:SER:OG	2.28	0.47
46:QJ:417:ASP:O	46:QJ:421:GLU:HG3	2.14	0.47
46:QL:116:VAL:HA	46:QL:119:VAL:HG22	1.96	0.47
45:RC:133:GLN:HB3	45:RC:252:ILE:HD13	1.96	0.47
45:RG:69:ASP:OD1	45:RG:70:LEU:N	2.48	0.47
45:RI:105:ARG:O	45:RI:109:THR:OG1	2.31	0.47
46:RJ:21:TRP:CZ2	46:RJ:63:ALA:HB2	2.49	0.47
46:RL:248:SER:OG	46:RL:252:LYS:HD2	2.15	0.47
46:RL:313:ALA:HB1	46:RL:367:PHE:CE1	2.50	0.47
45:RM:211:ASP:HA	45:RM:214:ARG:CZ	2.45	0.47
46:RN:16:ILE:HD12	46:RN:229:VAL:HG11	1.96	0.47
45:SC:68:LEU:HD13	45:SC:93:ILE:HB	1.97	0.47
46:SD:25:SER:OG	46:SD:51:TYR:OH	2.25	0.47
46:SD:262:ARG:HH12	46:SD:421:GLU:HG3	1.80	0.47
46:SF:16:ILE:HG21	46:SF:136:THR:HG21	1.97	0.47
46:SL:3:GLU:O	46:SL:131:GLN:N	2.34	0.47
46:SL:201:VAL:HG13	46:SL:301:CYS:SG	2.55	0.47
46:SL:213:ARG:HH12	46:SL:297:LYS:HB3	1.79	0.47
46:SL:268:ILE:HG22	46:SL:368:VAL:HA	1.97	0.47
46:TB:45:GLU:OE1	46:TB:46:ARG:HG3	2.15	0.47
45:TC:419:SER:O	45:TC:422:ARG:HB2	2.15	0.47
45:TE:188:ILE:HG21	45:TE:422:ARG:HH12	1.80	0.47
46:TF:391:ARG:HA	46:TF:391:ARG:HD2	1.78	0.47
46:TH:67:ASP:OD1	46:TH:68:LEU:N	2.47	0.47
46:TN:10:GLY:O	46:TN:14:ASN:ND2	2.48	0.47
46:UB:193:VAL:HG22	46:UB:262:ARG:HH21	1.79	0.47
46:UB:317:PHE:CE2	46:UB:326:VAL:HG13	2.49	0.47
46:UF:16:ILE:HD12	46:UF:229:VAL:HG11	1.96	0.47
45:UG:19:ALA:HA	45:UG:22:GLU:OE1	2.15	0.47
45:UK:183:GLU:N	45:UK:184:PRO:HD2	2.30	0.47
46:UL:267:MET:SD	46:UL:301:CYS:HB3	2.55	0.47
45:VG:175:PRO:HD2	45:VG:207:GLU:OE2	2.14	0.47
46:VH:379:LYS:HD3	46:VH:419:VAL:HG11	1.95	0.47
46:VJ:285:THR:O	46:VJ:288:GLU:HG3	2.14	0.47
46:VJ:293:MET:HG2	46:VJ:365:VAL:HG11	1.97	0.47
46:VN:150:LEU:HG	46:VN:154:LYS:HZ1	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:54:SER:HB3	45:WA:64:ARG:NE	2.29	0.47
45:WE:134:GLY:HA2	45:WE:164:LYS:HE2	1.97	0.47
46:WH:4:ILE:HG13	46:WH:132:GLY:O	2.15	0.47
46:WH:125:GLU:OE1	46:WH:159:TYR:OH	2.33	0.47
45:WI:322:ASP:OD2	45:WI:373:ARG:NH1	2.47	0.47
46:WJ:150:LEU:O	46:WJ:154:LYS:NZ	2.47	0.47
46:WN:267:MET:HE2	46:WN:299:MET:HB2	1.97	0.47
45:CE:75:ILE:HD12	45:CE:92:LEU:HB3	1.97	0.47
7:0G:163:ARG:HA	45:KM:245:ASP:HB3	1.95	0.46
19:1J:175:HIS:CE1	46:HH:53:GLU:HG2	2.49	0.46
23:1O:242:LEU:HD13	46:UB:276:ARG:O	2.15	0.46
15:1X:18:ILE:HD11	46:MH:81:PHE:CE1	2.50	0.46
1:2A:36:ARG:HH11	46:MJ:42:LEU:HD11	1.79	0.46
4:2D:6:ARG:HH22	46:CJ:44:LEU:C	2.17	0.46
11:3S:111:LYS:NZ	46:MN:158:GLU:HB2	2.30	0.46
13:3U:224:ARG:HH12	45:WK:40:LYS:HG2	1.78	0.46
34:4R:552:LEU:O	34:4R:556:ILE:HD12	2.14	0.46
34:4R:581:THR:O	34:4R:585:ILE:HG12	2.15	0.46
35:4S:158:MET:O	35:4S:162:LEU:HD23	2.15	0.46
15:4X:76:GLU:HG3	34:5R:5:LEU:HD23	1.96	0.46
34:5R:229:ASN:O	34:5R:233:GLU:HG2	2.15	0.46
35:5S:163:LYS:NZ	35:5S:211:ASN:HB2	2.31	0.46
34:7R:152:LYS:HG2	34:7R:160:TYR:CE1	2.50	0.46
34:7R:189:GLU:HA	34:7R:192:VAL:HG12	1.97	0.46
44:8R:125:TYR:CE1	45:PI:279:GLU:HA	2.50	0.46
46:AB:16:ILE:HD13	46:AB:226:ASN:OD1	2.15	0.46
45:AC:256:GLN:CD	45:AC:256:GLN:H	2.19	0.46
46:AD:32:PRO:HA	46:AD:84:LEU:HD11	1.95	0.46
45:AE:68:LEU:HD11	45:AE:118:CYS:SG	2.56	0.46
46:AF:4:ILE:HG13	46:AF:132:GLY:O	2.15	0.46
46:AF:372:THR:HA	46:AF:422:TYR:CE2	2.42	0.46
45:BC:174:SER:HB2	45:BC:177:VAL:O	2.14	0.46
45:BG:141:VAL:HG11	45:BG:172:TYR:CD1	2.50	0.46
45:BI:60:LYS:HZ1	45:CI:282:TYR:C	2.18	0.46
45:BI:372:MET:N	45:BI:372:MET:SD	2.88	0.46
46:BJ:175:VAL:HG22	46:BJ:205:GLU:HB3	1.97	0.46
46:BJ:179:VAL:HG23	46:BJ:180:VAL:HG23	1.97	0.46
45:BK:108:TYR:HA	45:BK:112:LYS:HE3	1.97	0.46
46:BL:11:GLN:O	46:BL:15:GLN:HG2	2.16	0.46
46:BL:238:CYS:SG	46:BL:239:CYS:N	2.88	0.46
46:BL:343:GLU:OE2	46:BL:430:ALA:N	2.43	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:192:HIS:CD2	45:BM:421:ALA:HA	2.50	0.46
45:CA:224:TYR:HD1	45:CA:227:LEU:HD12	1.80	0.46
46:CD:207:LEU:HD13	46:CD:225:LEU:HB3	1.98	0.46
46:DB:46:ARG:HG2	46:DB:241:ARG:HA	1.97	0.46
46:DD:132:GLY:HA3	46:DD:163:ILE:HG22	1.96	0.46
45:DG:207:GLU:HA	45:DG:210:TYR:CD2	2.50	0.46
45:DI:386:GLU:O	45:DI:390:ARG:HG3	2.15	0.46
46:DJ:258:ILE:HD11	45:DK:407:TRP:CZ2	2.50	0.46
46:DJ:286:VAL:O	46:DJ:329:GLN:NE2	2.48	0.46
46:DJ:344:TRP:CE3	46:DJ:345:ILE:HG12	2.50	0.46
45:DK:5:ILE:HB	45:DK:135:PHE:HD1	1.79	0.46
45:DM:319:TYR:CD2	45:DM:328:VAL:HG22	2.50	0.46
46:DN:133:PHE:HB2	46:DN:164:MET:SD	2.55	0.46
45:EA:140:SER:OG	47:EA:501:GTP:O2B	2.32	0.46
46:ED:11:GLN:HB3	46:ED:72:THR:HG21	1.97	0.46
46:ED:342:VAL:HG13	46:ED:345:ILE:HG22	1.96	0.46
45:EE:141:VAL:HG12	45:EE:171:ILE:O	2.16	0.46
45:EI:303:ALA:O	45:EI:305:CYS:N	2.46	0.46
45:EI:430:LYS:O	45:EI:433:GLU:HG3	2.15	0.46
46:EL:143:THR:OG1	46:EL:144:GLY:N	2.47	0.46
45:FC:387:VAL:HA	45:FC:390:ARG:HG2	1.97	0.46
45:FE:175:PRO:HG2	45:FE:304:LYS:NZ	2.30	0.46
45:FG:241:SER:OG	45:FG:250:VAL:O	2.32	0.46
45:FI:417:GLU:HA	45:FI:420:GLU:OE2	2.15	0.46
46:FJ:268:ILE:HG22	46:FJ:368:VAL:HG22	1.96	0.46
45:FM:171:ILE:HG23	45:FM:204:LEU:O	2.15	0.46
46:GB:87:PRO:HA	46:GB:90:PHE:HD2	1.79	0.46
45:GG:3:GLU:OE2	45:GG:131:GLY:N	2.47	0.46
46:GH:31:ASP:OD2	46:GH:37:HIS:NE2	2.47	0.46
45:GI:288:VAL:HA	45:GI:291:ILE:HG12	1.95	0.46
45:GI:401:LYS:HB2	45:GI:401:LYS:HE3	1.71	0.46
45:GK:192:HIS:CD2	45:GK:421:ALA:HA	2.50	0.46
45:GK:194:LEU:O	45:GK:198:THR:HG22	2.15	0.46
45:HA:31:GLN:NE2	45:HA:35:GLN:HB3	2.30	0.46
45:HE:222:PRO:HD2	46:HF:324:LYS:CD	2.45	0.46
45:HI:256:GLN:O	45:HI:260:VAL:HG12	2.15	0.46
45:HK:210:TYR:HD1	46:HL:324:LYS:HD3	1.80	0.46
46:HN:154:LYS:O	46:HN:157:GLU:HG2	2.15	0.46
46:HN:186:THR:HG23	46:HN:415:MET:HG3	1.96	0.46
45:IA:248:LEU:HB3	45:IA:355:ILE:HG12	1.97	0.46
45:IC:434:GLU:O	45:IC:437:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ID:86:ARG:HG3	45:JA:283:HIS:HB3	1.97	0.46
46:ID:257:LEU:HD11	46:ID:314:SER:HB2	1.97	0.46
46:IF:25:SER:OG	46:IF:30:ILE:O	2.33	0.46
46:IH:102:ALA:HB1	46:IH:401:GLU:HB2	1.97	0.46
45:IK:147:SER:HB2	45:IK:190:SER:OG	2.15	0.46
45:JA:214:ARG:NH2	45:JA:215:ARG:HB3	2.29	0.46
45:JA:214:ARG:HH22	45:JA:215:ARG:HB3	1.81	0.46
45:JA:417:GLU:N	45:JA:417:GLU:OE1	2.46	0.46
46:JB:154:LYS:O	46:JB:157:GLU:HG3	2.15	0.46
46:JF:113:ILE:HA	46:JF:116:VAL:HG22	1.97	0.46
46:KD:100:ASN:HD21	46:KD:397:TRP:HB3	1.80	0.46
45:KE:32:PRO:HB3	45:KE:83:TYR:HE1	1.80	0.46
45:KE:175:PRO:C	45:KE:390:ARG:HH22	2.19	0.46
45:KG:26:LEU:HD11	45:KG:364:PRO:HD2	1.97	0.46
45:KI:288:VAL:HA	45:KI:291:ILE:HG12	1.96	0.46
46:KJ:51:TYR:HB3	46:KJ:59:TYR:HB3	1.97	0.46
45:KK:88:HIS:HB3	45:KK:91:GLN:HG2	1.96	0.46
45:KK:319:TYR:HE2	45:KK:328:VAL:HG22	1.80	0.46
45:KM:77:GLU:OE2	45:KM:77:GLU:HA	2.15	0.46
45:LC:222:PRO:O	46:LD:322:SER:HB2	2.14	0.46
45:LE:205:ASP:OD2	45:LE:303:ALA:HA	2.14	0.46
45:LG:289:ALA:O	45:LG:293:ASN:ND2	2.30	0.46
45:LM:102:ASN:ND2	45:LM:105:ARG:HG3	2.30	0.46
46:LN:1:MET:SD	46:LN:2:ARG:NH1	2.84	0.46
45:MA:231:ILE:O	45:MA:235:ILE:HG12	2.14	0.46
46:MB:210:ILE:O	46:MB:214:THR:OG1	2.26	0.46
45:MC:1:MET:SD	45:MC:2:ARG:NH2	2.88	0.46
46:MD:32:PRO:HA	46:MD:84:LEU:HD11	1.97	0.46
46:MD:318:ARG:HH11	46:MD:358:PRO:HG3	1.80	0.46
45:MM:177:VAL:HG22	46:MN:331:LEU:HD22	1.97	0.46
45:NA:68:LEU:HD11	45:NA:118:CYS:HB2	1.97	0.46
45:NA:77:GLU:HA	45:NA:80:THR:OG1	2.15	0.46
46:ND:199:CYS:O	46:ND:265:PHE:HA	2.15	0.46
46:ND:268:ILE:HG22	46:ND:368:VAL:HG22	1.96	0.46
45:NE:287:SER:N	45:NE:290:GLU:OE2	2.48	0.46
46:NH:66:MET:HA	46:NH:91:VAL:O	2.15	0.46
46:NJ:248:SER:HA	46:NJ:252:LYS:HD2	1.97	0.46
45:NM:17:GLY:HA2	45:NM:20:CYS:SG	2.55	0.46
46:NN:64:ILE:HA	46:NN:89:ASN:HB3	1.97	0.46
45:OA:87:PHE:HB3	45:OA:91:GLN:HE21	1.80	0.46
45:OA:137:VAL:HG23	45:OA:168:GLY:HA2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:85:GLN:N	45:OC:85:GLN:OE1	2.49	0.46
45:OE:169:PHE:CE2	45:OE:235:ILE:HD12	2.50	0.46
46:OF:178:THR:HB	46:OF:181:GLU:CD	2.36	0.46
46:OH:113:ILE:HG21	46:OH:150:LEU:HD22	1.97	0.46
45:OI:257:THR:HG22	46:OL:397:TRP:HZ3	1.80	0.46
46:OL:35:THR:HG23	46:OL:37:HIS:CE1	2.50	0.46
46:OL:65:LEU:HD22	46:OL:90:PHE:CE1	2.50	0.46
46:OL:359:LYS:HA	46:OL:359:LYS:HD2	1.78	0.46
45:OM:276:ILE:HG22	45:OM:277:SER:O	2.16	0.46
45:PA:352:LYS:HD3	46:PD:179:VAL:HG13	1.96	0.46
45:PC:96:LYS:HE2	46:PD:2:ARG:HB3	1.97	0.46
45:PC:132:LEU:HD22	45:PC:164:LYS:NZ	2.30	0.46
45:PC:181:VAL:HG23	45:PC:182:VAL:HG13	1.96	0.46
45:PC:391:LEU:HG	45:PC:394:LYS:NZ	2.26	0.46
45:PE:35:GLN:N	45:PE:35:GLN:OE1	2.49	0.46
46:PF:237:THR:HG23	46:PF:241:ARG:NH2	2.29	0.46
45:PG:183:GLU:N	45:PG:184:PRO:HD2	2.30	0.46
45:PG:426:ALA:C	45:PG:430:LYS:HZ2	2.19	0.46
45:PI:153:LEU:O	45:PI:157:LEU:HD23	2.15	0.46
45:PK:222:PRO:HG2	46:PL:324:LYS:HG2	1.97	0.46
46:PL:212:PHE:CE1	46:PL:220:PRO:HG2	2.50	0.46
46:QB:19:LYS:HD3	46:QB:227:HIS:CG	2.50	0.46
45:QE:91:GLN:HG3	45:QE:92:LEU:HD12	1.97	0.46
46:QF:151:LEU:O	46:QF:155:VAL:HG12	2.14	0.46
46:QH:317:PHE:HB2	46:QH:353:ILE:HD13	1.96	0.46
45:QI:4:VAL:HG12	45:QI:133:GLN:HB2	1.96	0.46
46:QL:209:ASP:O	46:QL:213:ARG:HG2	2.15	0.46
46:QL:379:LYS:O	46:QL:383:GLU:OE1	2.33	0.46
46:QN:262:ARG:NH1	46:QN:421:GLU:OE1	2.46	0.46
45:RC:390:ARG:O	45:RC:394:LYS:HG2	2.15	0.46
46:RF:2:ARG:HH12	45:RG:71:GLU:HB2	1.80	0.46
46:RF:52:ASN:CG	46:RF:62:ARG:HE	2.18	0.46
46:RF:86:ARG:NH1	46:RF:88:ASP:OD1	2.48	0.46
45:RG:19:ALA:O	45:RG:22:GLU:HG2	2.15	0.46
45:RG:280:LYS:NZ	45:RG:284:GLU:OE1	2.49	0.46
45:RG:318:MET:HB2	45:RG:376:CYS:SG	2.55	0.46
45:RK:171:ILE:O	45:RK:171:ILE:HG13	2.15	0.46
46:RL:262:ARG:NH1	46:RL:418:LEU:HA	2.31	0.46
46:SH:318:ARG:HD3	46:SH:358:PRO:HD3	1.97	0.46
45:SI:333:ALA:O	45:SI:337:THR:HG23	2.15	0.46
46:SL:178:THR:HB	46:SL:181:GLU:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TC:417:GLU:OE1	45:TC:417:GLU:N	2.41	0.46
46:TF:108:GLU:HA	46:TF:111:GLU:OE2	2.15	0.46
46:TF:226:ASN:HA	46:TF:229:VAL:HG22	1.97	0.46
45:TG:34:GLY:O	45:TG:60:LYS:HA	2.15	0.46
46:TH:329:GLN:O	46:TH:333:VAL:HG22	2.14	0.46
45:TI:229:ARG:CZ	45:TI:366:GLY:HA2	2.45	0.46
45:TK:195:LEU:HD21	45:TK:428:LEU:HD21	1.97	0.46
46:TL:1:MET:CE	46:TL:2:ARG:H	2.27	0.46
46:TL:86:ARG:HH11	46:UL:281:TYR:HB3	1.80	0.46
45:TM:24:PHE:HA	45:TM:27:GLU:HG2	1.97	0.46
45:TM:174:SER:OG	45:TM:207:GLU:HB2	2.16	0.46
45:UA:346:TRP:CD1	46:UB:391:ARG:HG3	2.50	0.46
46:UB:86:ARG:HH22	46:UB:122:LYS:NZ	2.14	0.46
46:UB:286:VAL:HG12	46:UB:329:GLN:HG3	1.96	0.46
46:UB:318:ARG:HD3	46:UB:358:PRO:HG3	1.97	0.46
46:UB:324:LYS:NZ	45:UC:221:ARG:HH11	2.12	0.46
45:UC:107:HIS:ND1	45:UC:107:HIS:O	2.48	0.46
45:UC:205:ASP:OD1	45:UC:303:ALA:HA	2.16	0.46
46:UD:313:ALA:HB1	46:UD:367:PHE:HE1	1.80	0.46
45:UE:129:CYS:SG	45:UE:132:LEU:HB3	2.55	0.46
45:UE:150:GLY:O	45:UE:154:LEU:HD23	2.15	0.46
45:UK:14:ILE:HD11	45:UK:69:ASP:HB2	1.97	0.46
45:UK:98:ASP:OD1	45:UK:99:ALA:N	2.48	0.46
45:UK:387:VAL:HG12	45:UK:390:ARG:NH1	2.30	0.46
45:VA:145:THR:OG1	47:VA:501:GTP:O1B	2.32	0.46
45:VA:311:LYS:HD3	45:VA:342:GLN:HG3	1.97	0.46
46:VB:316:LEU:HD13	46:VB:352:SER:HB2	1.97	0.46
46:VF:306:ARG:HG2	46:VF:340:TYR:CE1	2.50	0.46
45:VG:115:VAL:HG11	45:VG:152:LEU:HD23	1.97	0.46
46:VH:286:VAL:CG2	46:VH:287:PRO:HD3	2.44	0.46
46:VH:306:ARG:HB2	46:VH:340:TYR:CE1	2.50	0.46
46:VH:317:PHE:CE2	46:VH:326:VAL:HG13	2.50	0.46
45:VK:8:HIS:HB2	45:VK:67:PHE:HD2	1.79	0.46
45:WC:136:LEU:HD22	45:WC:169:PHE:HE2	1.80	0.46
46:WD:12:CYS:O	46:WD:16:ILE:HG12	2.15	0.46
46:WD:289:LEU:HD11	46:WD:363:MET:HB3	1.97	0.46
45:WG:265:ILE:HD11	45:WG:435:VAL:HG21	1.96	0.46
45:WK:55:GLU:CD	45:WK:57:GLY:H	2.19	0.46
46:WL:58:ARG:HD2	46:WL:59:TYR:N	2.30	0.46
45:DC:36:MET:HG3	45:DC:38:SER:H	1.80	0.46
18:II:152:LYS:NZ	45:KE:364:PRO:HG2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:2M:44:VAL:HG13	46:IJ:78:ALA:HB2	1.97	0.46
23:2O:402:GLN:HG3	46:VD:276:ARG:HH22	1.79	0.46
25:2R:390:ASP:OD1	46:EH:218:THR:OG1	2.32	0.46
1:3A:138:TRP:HZ3	45:AM:81:GLY:HA2	1.80	0.46
11:3S:271:ASP:OD2	10:6Q:36:ARG:NE	2.32	0.46
34:4R:215:LEU:HA	34:4R:218:ILE:HD12	1.96	0.46
37:5F:181:TYR:O	37:5F:184:GLN:HG3	2.15	0.46
34:5R:509:ASP:HB3	34:5R:512:THR:HG23	1.96	0.46
35:5S:167:LYS:HA	35:5S:170:THR:HG22	1.98	0.46
40:6G:268:VAL:HG13	45:VA:338:LYS:HE2	1.96	0.46
10:6Q:9:GLY:HA2	10:6Q:170:ARG:HH12	1.80	0.46
34:7R:389:ASN:N	46:EB:276:ARG:HH12	2.12	0.46
45:AA:102:ASN:ND2	45:AA:407:TRP:O	2.45	0.46
45:AC:68:LEU:HD13	45:AC:93:ILE:HB	1.97	0.46
45:AC:215:ARG:NH2	45:AC:300:ASN:OD1	2.48	0.46
46:AD:117:LEU:HA	46:AD:120:VAL:HG12	1.97	0.46
45:AE:402:ARG:NH2	45:AE:415:GLU:OE1	2.48	0.46
46:AF:45:GLU:C	46:AF:46:ARG:HD2	2.35	0.46
46:AF:111:GLU:OE1	46:AF:111:GLU:N	2.49	0.46
45:AG:156:ARG:HH11	45:AG:156:ARG:HA	1.80	0.46
45:AG:231:ILE:O	45:AG:235:ILE:HG12	2.15	0.46
46:AH:173:PRO:HD3	46:AH:380:ARG:HH21	1.80	0.46
45:AI:387:VAL:HG12	45:AI:390:ARG:NH1	2.30	0.46
46:AL:287:PRO:HG3	46:AL:329:GLN:NE2	2.30	0.46
45:AM:68:LEU:HD23	45:AM:93:ILE:HB	1.96	0.46
45:BA:88:HIS:HD1	45:BA:121:ARG:HH22	1.63	0.46
46:BD:201:VAL:HG23	46:BD:301:CYS:SG	2.55	0.46
46:BF:86:ARG:HG3	46:BF:88:ASP:OD1	2.15	0.46
45:BI:103:PHE:H	45:BI:408:TYR:HE2	1.62	0.46
45:BI:222:PRO:O	46:BJ:324:LYS:HG2	2.15	0.46
46:BJ:52:ASN:OD1	46:BJ:62:ARG:NH2	2.49	0.46
45:BK:51:THR:HG22	45:BK:52:PHE:CD2	2.51	0.46
45:BK:88:HIS:HD2	45:CK:283:HIS:HB3	1.80	0.46
45:BK:167:LEU:HG	45:BK:200:VAL:HB	1.97	0.46
45:BM:328:VAL:HG11	45:BM:353:VAL:HG21	1.97	0.46
46:BN:68:LEU:HB3	46:BN:96:GLY:HA2	1.97	0.46
46:BN:260:PHE:HB2	46:BN:263:LEU:HD12	1.96	0.46
46:CD:148:GLY:O	46:CD:152:ILE:HG13	2.14	0.46
46:CF:68:LEU:HB3	46:CF:96:GLY:HA2	1.96	0.46
46:CL:359:LYS:HE2	46:CL:359:LYS:HA	1.97	0.46
46:DB:12:CYS:O	46:DB:16:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DB:222:TYR:HA	46:DB:225:LEU:HD12	1.98	0.46
46:DD:312:THR:HG22	46:DD:370:ASN:HB3	1.97	0.46
45:DE:187:SER:O	45:DE:191:THR:HG23	2.15	0.46
46:DF:290:THR:HG21	46:DF:329:GLN:CG	2.45	0.46
45:DI:101:ASN:HA	45:DI:144:GLY:H	1.79	0.46
45:DK:76:ASP:HA	45:DK:79:ARG:HG2	1.97	0.46
46:DL:134:GLN:O	46:DL:135:ILE:HD13	2.16	0.46
45:EC:205:ASP:OD1	45:EC:206:ASN:N	2.48	0.46
45:EI:287:SER:O	45:EI:291:ILE:HG12	2.15	0.46
45:EK:346:TRP:CD1	46:EL:391:ARG:HG3	2.51	0.46
46:EL:19:LYS:HD2	46:EL:22:GLU:OE2	2.15	0.46
46:EL:54:ALA:HA	46:FL:283:ALA:HB2	1.96	0.46
46:EL:263:LEU:HD22	46:EL:422:TYR:HD1	1.80	0.46
45:FA:192:HIS:ND1	45:FA:421:ALA:HA	2.30	0.46
46:FD:290:THR:HA	46:FD:293:MET:CG	2.44	0.46
45:FK:118:CYS:O	45:FK:122:ILE:HG12	2.14	0.46
45:FM:188:ILE:HD11	45:FM:391:LEU:HB3	1.97	0.46
46:GB:318:ARG:HB3	46:GB:357:PRO:HA	1.97	0.46
46:GD:210:ILE:O	46:GD:214:THR:OG1	2.21	0.46
45:GI:171:ILE:HG23	45:GI:204:LEU:O	2.16	0.46
46:GJ:184:ASN:OD1	46:GJ:185:ALA:N	2.48	0.46
46:GJ:318:ARG:HH11	46:GJ:358:PRO:HG3	1.79	0.46
46:HD:180:VAL:O	46:HD:180:VAL:HG12	2.15	0.46
46:HH:11:GLN:O	46:HH:15:GLN:HG2	2.14	0.46
46:HH:198:GLU:OE2	46:HH:200:MET:HG3	2.15	0.46
46:HH:284:LEU:HD11	46:HH:362:LYS:HB2	1.97	0.46
45:HI:287:SER:N	45:HI:290:GLU:OE2	2.36	0.46
46:HJ:163:ILE:HA	46:HJ:197:ASP:OD2	2.15	0.46
46:HJ:274:THR:HB	46:HJ:282:ARG:HH11	1.80	0.46
45:HK:150:GLY:O	45:HK:154:LEU:HD23	2.14	0.46
45:HM:139:ASN:ND2	45:HM:146:GLY:O	2.45	0.46
46:HN:152:ILE:O	46:HN:156:ARG:HG2	2.16	0.46
45:IC:245:ASP:N	45:IC:245:ASP:OD1	2.47	0.46
46:IJ:207:LEU:HB3	46:IJ:225:LEU:HD22	1.96	0.46
46:JB:31:ASP:OD2	46:JB:37:HIS:ND1	2.49	0.46
46:JB:214:THR:O	46:JB:275:SER:HB3	2.15	0.46
46:JD:178:THR:HB	46:JD:181:GLU:OE2	2.14	0.46
45:JG:88:HIS:CE1	45:JG:90:GLU:HG2	2.50	0.46
45:JI:174:SER:HB2	45:JI:177:VAL:O	2.15	0.46
45:JK:73:THR:HA	46:JL:46:ARG:HH22	1.79	0.46
46:JL:148:GLY:O	46:JL:152:ILE:HG13	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JM:27:GLU:OE2	45:JM:28:HIS:ND1	2.48	0.46
45:JM:214:ARG:NH2	45:JM:215:ARG:HG2	2.31	0.46
45:KA:298:PRO:HB3	45:KA:307:PRO:HD2	1.97	0.46
46:KD:175:VAL:O	46:KD:175:VAL:HG13	2.15	0.46
45:KI:206:ASN:OD1	47:KI:501:GTP:N2	2.48	0.46
45:KK:294:SER:HA	45:KK:297:GLU:HG2	1.98	0.46
46:KL:3:GLU:OE2	46:KL:127:CYS:HB2	2.15	0.46
46:KL:233:MET:O	46:KL:236:VAL:HG12	2.15	0.46
45:KM:69:ASP:OD1	45:KM:70:LEU:N	2.49	0.46
46:LB:48:ASN:O	46:LB:62:ARG:NH1	2.38	0.46
46:LB:97:ALA:HB2	46:LB:143:THR:HB	1.98	0.46
46:LB:103:LYS:HA	46:LB:107:THR:HG22	1.97	0.46
45:LE:5:ILE:HB	45:LE:135:PHE:CD1	2.50	0.46
45:LI:98:ASP:OD1	45:LI:99:ALA:N	2.48	0.46
46:LJ:324:LYS:HG3	46:LJ:325:GLU:N	2.30	0.46
46:MB:299:MET:HG3	46:MB:301:CYS:N	2.22	0.46
45:MC:262:TYR:OH	46:MF:391:ARG:O	2.31	0.46
46:MD:6:HIS:NE2	46:MD:8:GLN:OE1	2.49	0.46
45:NA:141:VAL:HG22	45:NA:187:SER:HA	1.97	0.46
45:NA:326:LYS:HE2	46:ND:208:TYR:HD2	1.80	0.46
45:NC:363:VAL:HG13	45:NC:366:GLY:HA3	1.96	0.46
45:NE:217:LEU:HB2	45:NE:219:ILE:HG22	1.98	0.46
46:NF:190:HIS:CD2	46:NF:414:ASN:HD22	2.34	0.46
46:NH:87:PRO:HD2	46:OH:281:TYR:HD2	1.80	0.46
46:OB:257:LEU:HD21	46:OB:314:SER:HB2	1.97	0.46
45:OG:156:ARG:HD3	45:OG:156:ARG:HA	1.73	0.46
45:OG:171:ILE:HG23	45:OG:204:LEU:O	2.16	0.46
45:OI:141:VAL:HG22	45:OI:187:SER:HA	1.96	0.46
45:PC:22:GLU:OE2	45:PC:83:TYR:HE2	1.97	0.46
45:PC:325:PRO:HG3	45:PC:355:ILE:HD13	1.97	0.46
45:PE:98:ASP:O	45:PE:105:ARG:NH1	2.49	0.46
45:PE:222:PRO:O	46:PF:324:LYS:HD3	2.16	0.46
45:PE:259:LEU:HD21	45:PE:316:SER:HB2	1.96	0.46
46:PF:68:LEU:HD23	46:PF:143:THR:OG1	2.15	0.46
46:PF:285:THR:HG23	46:PF:287:PRO:HD2	1.97	0.46
45:PG:119:LEU:HD11	45:PG:157:LEU:HD22	1.97	0.46
46:PH:113:ILE:HD11	46:PH:151:LEU:HB2	1.97	0.46
45:PI:261:PRO:HA	46:PL:394:PHE:CD1	2.50	0.46
45:PK:11:GLN:O	45:PK:15:GLN:HG2	2.15	0.46
45:PK:387:VAL:O	45:PK:390:ARG:HG2	2.15	0.46
46:PL:222:TYR:O	46:PL:226:ASN:ND2	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:333:VAL:HA	46:PN:336:LYS:HG2	1.97	0.46
45:QA:320:ARG:HH12	45:QA:360:PRO:HA	1.80	0.46
46:QB:86:ARG:HG3	46:QB:88:ASP:H	1.79	0.46
46:QD:44:LEU:O	46:QD:47:ILE:HG12	2.15	0.46
46:QF:8:GLN:OE1	46:QF:17:GLY:HA3	2.15	0.46
46:QF:86:ARG:HG2	46:QF:88:ASP:OD2	2.14	0.46
45:QG:15:GLN:NE2	45:QG:228:ASN:OD1	2.43	0.46
45:QG:17:GLY:O	45:QG:21:TRP:HD1	1.98	0.46
45:QG:167:LEU:HD13	45:QG:200:VAL:HB	1.96	0.46
45:QI:231:ILE:O	45:QI:235:ILE:HG12	2.16	0.46
45:QK:70:LEU:HA	45:QK:95:GLY:H	1.80	0.46
45:QK:88:HIS:HB3	45:QK:91:GLN:HG3	1.96	0.46
45:QM:78:VAL:HG12	45:QM:87:PHE:CE2	2.50	0.46
45:RE:326:LYS:HD2	46:RF:220:PRO:HG2	1.97	0.46
45:RG:239:THR:HG23	45:RG:243:ARG:HH21	1.80	0.46
45:RI:20:CYS:HA	45:RI:232:ALA:HB1	1.96	0.46
46:RL:164:MET:H	46:RL:197:ASP:HB2	1.79	0.46
45:SC:430:LYS:O	45:SC:433:GLU:HG3	2.15	0.46
46:SD:167:PHE:CE2	46:SD:233:MET:HG2	2.50	0.46
45:SI:176:GLN:NE2	45:SI:207:GLU:OE2	2.44	0.46
45:SK:138:PHE:HZ	45:SK:235:ILE:HD12	1.79	0.46
45:SM:85:GLN:CD	45:SM:85:GLN:H	2.19	0.46
46:TB:238:CYS:SG	46:TB:239:CYS:N	2.88	0.46
45:TE:205:ASP:OD1	45:TE:303:ALA:HA	2.15	0.46
45:TE:420:GLU:HA	45:TE:423:GLU:CD	2.36	0.46
45:TG:390:ARG:HG3	45:TG:391:LEU:HD12	1.96	0.46
46:TH:318:ARG:HH11	46:TH:358:PRO:HG3	1.79	0.46
45:TK:287:SER:O	45:TK:291:ILE:HG12	2.16	0.46
46:TL:68:LEU:HD21	46:TL:108:GLU:OE2	2.14	0.46
46:TL:414:ASN:O	46:TL:418:LEU:HD23	2.16	0.46
46:TN:290:THR:HA	46:TN:293:MET:HB2	1.96	0.46
46:UB:324:LYS:NZ	45:UC:221:ARG:HA	2.30	0.46
45:UC:10:GLY:O	45:UC:14:ILE:HD12	2.15	0.46
45:UE:183:GLU:N	45:UE:184:PRO:HD2	2.30	0.46
45:UG:203:MET:HE1	45:UG:267:PHE:HB3	1.98	0.46
45:UI:186:ASN:OD1	45:UI:187:SER:N	2.48	0.46
45:UM:265:ILE:HG12	45:UM:380:ASN:HD21	1.81	0.46
45:UM:325:PRO:HG3	45:UM:355:ILE:HD13	1.97	0.46
46:UN:68:LEU:HD22	46:UN:108:GLU:OE2	2.15	0.46
45:VA:10:GLY:O	45:VA:14:ILE:HG12	2.15	0.46
46:VB:164:MET:O	46:VB:197:ASP:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:282:ARG:HH22	46:VB:289:LEU:HD22	1.81	0.46
46:VD:48:ASN:O	46:VD:62:ARG:NH1	2.45	0.46
45:VE:183:GLU:N	45:VE:184:PRO:HD2	2.30	0.46
46:VF:6:HIS:O	46:VF:63:ALA:HA	2.14	0.46
45:VG:393:HIS:O	45:VG:397:LEU:HD23	2.15	0.46
45:VK:221:ARG:NH2	46:VL:321:MET:HA	2.30	0.46
46:VL:83:GLN:OE1	46:VL:83:GLN:HA	2.15	0.46
46:VL:198:GLU:HB2	46:VL:266:PHE:CE2	2.50	0.46
45:WC:80:THR:HA	45:WC:84:ARG:HH21	1.79	0.46
45:WC:181:VAL:HG22	46:WD:256:ASN:OD1	2.15	0.46
45:WE:264:ARG:CZ	45:WE:264:ARG:HA	2.44	0.46
45:WG:11:GLN:O	45:WG:15:GLN:HG2	2.15	0.46
45:WG:319:TYR:CE2	45:WG:328:VAL:HG22	2.50	0.46
46:WH:396:HIS:CD2	46:WH:397:TRP:HD1	2.34	0.46
46:WJ:318:ARG:NH1	46:WJ:358:PRO:HG3	2.29	0.46
45:WM:223:THR:HG23	45:WM:225:THR:H	1.80	0.46
2:0B:76:PHE:HD2	46:JH:362:LYS:HZ3	1.64	0.46
7:0G:112:LYS:HD3	45:JM:364:PRO:HB2	1.96	0.46
14:0V:86:ARG:HH12	46:LN:414:ASN:ND2	2.12	0.46
19:1J:142:VAL:HB	45:IE:285:GLN:HB2	1.96	0.46
19:1J:273:TRP:HE1	46:IL:276:ARG:HE	1.63	0.46
20:1K:44:GLU:OE1	46:JF:94:GLN:NE2	2.47	0.46
24:1P:302:LYS:NZ	46:TD:362:LYS:HE2	2.31	0.46
14:1V:24:ARG:NH1	45:MI:433:GLU:HB2	2.30	0.46
31:2I:45:LYS:HE2	46:GH:336:LYS:HD3	1.96	0.46
31:2I:138:VAL:HB	46:FD:121:ARG:CZ	2.44	0.46
20:2K:269:GLU:CD	45:GK:370:LYS:HG2	2.35	0.46
26:2W:183:SER:OG	45:KM:45:GLY:N	2.43	0.46
15:2X:49:ILE:HD11	45:MI:282:TYR:H	1.80	0.46
15:2X:70:TYR:CD1	46:MJ:362:LYS:HG2	2.50	0.46
31:3I:285:ARG:NH2	45:FG:55:GLU:HG2	2.30	0.46
15:3X:42:LYS:NZ	45:LM:57:GLY:O	2.41	0.46
34:4R:453:ILE:HG12	34:4R:490:PHE:HZ	1.81	0.46
36:5A:68:ASP:HA	37:5E:69:LYS:HD3	1.97	0.46
36:5C:97:LYS:HB3	36:5C:108:ARG:HE	1.80	0.46
36:5C:142:GLN:CD	46:NL:245:GLN:HE22	2.18	0.46
37:5E:48:ARG:HD2	37:5E:48:ARG:HA	1.76	0.46
37:5G:60:TRP:HA	46:OJ:279:GLN:OE1	2.15	0.46
37:5G:63:HIS:CD2	46:NJ:58:ARG:HD2	2.50	0.46
37:5G:116:TYR:CE1	45:NI:85:GLN:HA	2.51	0.46
10:5Q:48:GLU:HG2	10:5Q:161:ARG:HG2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:6F:62:GLN:HG2	45:IE:84:ARG:NH2	2.31	0.46
40:6G:83:GLU:HG3	40:6G:84:VAL:H	1.80	0.46
40:6G:98:ARG:HD3	45:UK:113:GLU:OE1	2.16	0.46
41:6H:251:ASP:HB3	46:FF:362:LYS:HE2	1.96	0.46
34:7R:69:LYS:HD3	34:7R:70:ARG:O	2.15	0.46
34:7R:406:PRO:HG3	46:EB:216:LYS:HE3	1.98	0.46
45:AE:98:ASP:O	45:AE:105:ARG:NH1	2.48	0.46
45:AE:259:LEU:HD23	45:AE:268:MET:HE3	1.96	0.46
45:AG:263:PRO:HD3	46:AJ:396:HIS:CE1	2.51	0.46
45:AI:183:GLU:N	45:AI:184:PRO:HD2	2.30	0.46
45:AK:135:PHE:HB2	45:AK:166:LYS:HG2	1.96	0.46
45:AK:183:GLU:N	45:AK:184:PRO:HD2	2.30	0.46
45:AM:288:VAL:HA	45:AM:291:ILE:HG12	1.98	0.46
45:AM:398:MET:CE	46:AN:346:PRO:HD2	2.46	0.46
45:BA:265:ILE:HG12	45:BA:432:TYR:HE1	1.80	0.46
45:BA:276:ILE:HD12	45:BA:281:ALA:HA	1.96	0.46
46:BB:20:PHE:CZ	46:BB:24:ILE:HD11	2.50	0.46
45:BC:319:TYR:CD2	45:BC:328:VAL:HG22	2.50	0.46
46:BD:87:PRO:HD2	46:CB:281:TYR:CD1	2.49	0.46
45:BE:260:VAL:HB	46:BH:397:TRP:CZ2	2.48	0.46
46:BF:64:ILE:HD11	46:BF:123:GLU:HG3	1.96	0.46
46:BF:178:THR:HG22	46:BF:180:VAL:H	1.79	0.46
45:BG:223:THR:HG22	46:BH:322:SER:HB2	1.97	0.46
45:BG:298:PRO:HG3	45:BG:308:ARG:NH1	2.31	0.46
46:BH:317:PHE:CD2	46:BH:365:VAL:HG22	2.51	0.46
46:BH:332:ASN:HA	46:BH:336:LYS:NZ	2.30	0.46
46:BL:3:GLU:OE2	46:BL:127:CYS:HB2	2.15	0.46
46:BL:65:LEU:HD22	46:BL:90:PHE:CE1	2.50	0.46
45:BM:206:ASN:HB3	45:BM:210:TYR:HE2	1.81	0.46
45:CC:10:GLY:O	45:CC:14:ILE:HD12	2.14	0.46
45:CC:174:SER:HB2	45:CC:177:VAL:O	2.16	0.46
46:CF:222:TYR:HD1	49:CF:501:GDP:C6	2.33	0.46
45:CG:258:ASN:ND2	45:CG:352:LYS:HE3	2.31	0.46
46:CJ:164:MET:SD	46:CJ:196:ALA:HA	2.55	0.46
46:CN:198:GLU:HG2	46:CN:266:PHE:HE2	1.80	0.46
46:DD:407:GLU:HA	46:DD:410:GLU:HG3	1.98	0.46
45:DI:187:SER:O	45:DI:191:THR:HG23	2.15	0.46
45:EC:81:GLY:O	45:EC:84:ARG:HG3	2.14	0.46
45:EC:171:ILE:HG22	45:EC:204:LEU:HB2	1.96	0.46
46:ED:183:TYR:CE1	46:ED:388:MET:HB3	2.51	0.46
46:ED:362:LYS:HD3	46:ED:362:LYS:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EE:241:SER:OG	45:EE:250:VAL:O	2.24	0.46
46:EF:12:CYS:HA	46:EF:15:GLN:HE21	1.79	0.46
45:EG:325:PRO:HB2	46:EH:208:TYR:OH	2.14	0.46
45:EK:276:ILE:HD11	45:EK:280:LYS:HG3	1.96	0.46
45:EM:188:ILE:HD12	45:EM:425:LEU:HD11	1.98	0.46
46:EN:296:ALA:HB1	46:EN:305:PRO:HD2	1.98	0.46
46:FB:10:GLY:O	46:FB:14:ASN:ND2	2.48	0.46
45:FC:210:TYR:CE1	45:FC:227:LEU:HD11	2.51	0.46
46:FD:289:LEU:O	46:FD:293:MET:HG2	2.16	0.46
45:FG:411:GLU:OE1	45:FG:411:GLU:N	2.48	0.46
46:FH:133:PHE:HB2	46:FH:164:MET:SD	2.54	0.46
46:FL:314:SER:OG	46:FL:368:VAL:HB	2.15	0.46
45:FM:293:ASN:O	45:FM:297:GLU:HG3	2.16	0.46
46:GF:4:ILE:HG13	46:GF:132:GLY:O	2.14	0.46
45:GG:20:CYS:O	45:GG:24:PHE:HD1	1.99	0.46
45:GG:326:LYS:NZ	46:GJ:208:TYR:O	2.44	0.46
46:GH:116:VAL:HA	46:GH:119:VAL:HG12	1.98	0.46
45:GK:408:TYR:HB3	45:GK:413:MET:HE3	1.97	0.46
46:GN:114:ASP:O	46:GN:117:LEU:HG	2.15	0.46
46:HB:262:ARG:NH1	46:HB:421:GLU:OE1	2.48	0.46
45:HC:221:ARG:NH2	46:HD:322:SER:H	2.13	0.46
46:HD:39:ASP:N	46:HD:39:ASP:OD2	2.48	0.46
45:HE:239:THR:HG23	45:HE:243:ARG:NH1	2.30	0.46
46:HF:109:GLY:HA2	46:HF:147:MET:HE3	1.96	0.46
45:HI:222:PRO:HG2	46:HJ:324:LYS:CE	2.44	0.46
46:HJ:36:TYR:CD2	46:HJ:44:LEU:HD21	2.50	0.46
45:HM:221:ARG:NH2	46:HN:321:MET:HA	2.30	0.46
45:IA:261:PRO:CD	45:IA:262:TYR:N	2.76	0.46
45:IC:119:LEU:O	45:IC:123:ARG:HG2	2.16	0.46
45:IG:398:MET:HE3	46:IH:345:ILE:HA	1.96	0.46
45:II:288:VAL:HA	45:II:291:ILE:HG12	1.96	0.46
45:IK:276:ILE:CG1	45:IK:281:ALA:HB2	2.45	0.46
46:JF:193:VAL:HG11	46:JF:418:LEU:HD12	1.97	0.46
46:JF:415:MET:HE2	46:JF:415:MET:HB3	1.81	0.46
45:JI:426:ALA:O	45:JI:429:GLU:HG3	2.15	0.46
45:JK:211:ASP:O	45:JK:214:ARG:HG3	2.14	0.46
45:JK:272:TYR:CD2	45:JK:275:ILE:HD11	2.48	0.46
45:JK:330:ALA:O	45:JK:334:THR:HG23	2.15	0.46
46:JL:109:GLY:HA2	46:JL:147:MET:HE2	1.97	0.46
46:KD:238:CYS:SG	46:KD:318:ARG:HD3	2.55	0.46
46:LD:187:LEU:HD11	46:LD:408:PHE:HE1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LH:201:VAL:HG23	46:LH:301:CYS:SG	2.55	0.46
45:LI:72:PRO:HD2	46:LJ:2:ARG:HH21	1.80	0.46
46:LJ:8:GLN:HE21	46:LJ:14:ASN:HA	1.80	0.46
46:LJ:238:CYS:HB2	46:LJ:318:ARG:HH21	1.80	0.46
45:LK:276:ILE:HD11	45:LK:280:LYS:HD2	1.96	0.46
45:LM:56:THR:OG1	45:MM:283:HIS:O	2.32	0.46
45:LM:119:LEU:HD11	45:LM:156:ARG:HG2	1.97	0.46
45:MC:141:VAL:HG11	45:MC:172:TYR:CD1	2.50	0.46
45:MC:317:MET:HE2	45:MC:319:TYR:CE1	2.51	0.46
46:MD:210:ILE:O	46:MD:214:THR:OG1	2.26	0.46
46:MD:213:ARG:HH22	46:MD:297:LYS:HG3	1.80	0.46
46:ML:139:LEU:HD13	46:ML:168:SER:HB3	1.97	0.46
45:NA:280:LYS:NZ	45:NA:282:TYR:H	2.12	0.46
46:NB:316:LEU:HB2	46:NB:366:THR:CG2	2.45	0.46
45:NC:35:GLN:NE2	45:NC:60:LYS:HB3	2.29	0.46
45:NE:101:ASN:OD1	45:NE:143:GLY:HA2	2.16	0.46
45:NE:181:VAL:HG13	45:NE:182:VAL:HG13	1.95	0.46
45:NG:88:HIS:HB3	45:NG:91:GLN:HG2	1.97	0.46
45:NK:2:ARG:HG2	45:NK:133:GLN:HE22	1.81	0.46
45:OA:88:HIS:CE1	45:OA:90:GLU:HG3	2.50	0.46
46:OD:304:ASP:HB3	46:OD:307:HIS:ND1	2.30	0.46
46:OF:86:ARG:NE	46:PF:281:TYR:HB3	2.30	0.46
45:OI:121:ARG:O	45:OI:125:LEU:HD23	2.14	0.46
45:OK:70:LEU:HD13	45:OK:95:GLY:HA3	1.97	0.46
45:PA:256:GLN:HB2	45:PA:260:VAL:HB	1.97	0.46
45:PA:315:CYS:HB2	45:PA:377:MET:CE	2.44	0.46
45:PC:298:PRO:HA	45:PC:301:MET:HE3	1.97	0.46
46:PL:189:VAL:HA	46:PL:192:LEU:HB2	1.98	0.46
46:PL:284:LEU:HD12	46:PL:284:LEU:O	2.16	0.46
46:PN:190:HIS:CD2	46:PN:414:ASN:HD22	2.33	0.46
45:QC:268:MET:CE	45:QC:378:ILE:HG22	2.44	0.46
45:QE:12:GLY:HA2	45:QE:15:GLN:HE21	1.81	0.46
45:QK:205:ASP:OD1	45:QK:303:ALA:HA	2.15	0.46
46:QL:58:ARG:HH12	46:QL:60:VAL:HB	1.80	0.46
46:QN:145:SER:HB2	46:QN:188:SER:HB3	1.97	0.46
45:RA:140:SER:OG	47:RA:501:GTP:O2B	2.33	0.46
45:RC:287:SER:O	45:RC:290:GLU:HG3	2.15	0.46
46:RL:405:GLU:HG2	46:RL:406:MET:HE1	1.97	0.46
45:RM:346:TRP:CD1	46:RN:391:ARG:HG3	2.51	0.46
45:SC:83:TYR:HD2	45:SC:86:LEU:HD12	1.81	0.46
46:SF:69:GLU:OE2	46:SF:72:THR:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SH:8:GLN:HE22	46:SH:17:GLY:HA3	1.79	0.46
46:SH:131:GLN:O	46:SH:163:ILE:HG12	2.15	0.46
46:SH:317:PHE:CD1	46:SH:365:VAL:HG22	2.50	0.46
45:SM:287:SER:HB3	45:SM:290:GLU:HG2	1.97	0.46
45:SM:404:PHE:CD2	45:SM:407:TRP:HZ3	2.34	0.46
46:TB:325:GLU:OE2	45:TC:221:ARG:NH1	2.47	0.46
46:TD:318:ARG:HH11	46:TD:358:PRO:HG3	1.79	0.46
46:TD:372:THR:HA	46:TD:422:TYR:CE2	2.51	0.46
45:TG:265:ILE:O	45:TG:265:ILE:HG13	2.15	0.46
46:TH:317:PHE:HB2	46:TH:353:ILE:HD13	1.96	0.46
46:TJ:392:LYS:HD3	46:TJ:392:LYS:N	2.30	0.46
45:TK:414:GLU:HB3	45:TK:417:GLU:OE1	2.15	0.46
45:TM:82:THR:HG23	45:TM:83:TYR:HD1	1.81	0.46
45:TM:362:VAL:HB	45:TM:370:LYS:HB3	1.96	0.46
46:UB:139:LEU:HG	46:UB:188:SER:OG	2.15	0.46
46:UD:63:ALA:O	46:UD:89:ASN:ND2	2.48	0.46
46:UD:380:ARG:O	46:UD:383:GLU:HG3	2.14	0.46
46:UF:257:LEU:HD11	46:UF:314:SER:HB2	1.98	0.46
46:UF:371:SER:O	46:UF:422:TYR:OH	2.28	0.46
45:UG:124:LYS:HD3	45:UG:124:LYS:HA	1.73	0.46
46:UH:132:GLY:HA2	46:UH:162:ARG:HG3	1.97	0.46
46:UH:175:VAL:HG22	46:UH:205:GLU:HB3	1.97	0.46
46:UJ:101:TRP:HB3	46:UJ:398:TYR:HE1	1.79	0.46
46:UJ:252:LYS:HA	45:UK:100:ALA:HB1	1.97	0.46
45:VA:185:TYR:HE1	45:VA:398:MET:HG3	1.80	0.46
45:VC:268:MET:N	45:VC:268:MET:SD	2.88	0.46
45:VE:231:ILE:O	45:VE:235:ILE:HG12	2.15	0.46
45:VE:387:VAL:HG12	45:VE:390:ARG:NH1	2.31	0.46
45:VG:23:LEU:HD12	45:VG:26:LEU:HD11	1.96	0.46
46:VJ:326:VAL:O	46:VJ:330:MET:HE3	2.15	0.46
45:VK:258:ASN:CB	45:VK:352:LYS:HE3	2.45	0.46
46:VN:249:ASP:OD1	46:VN:252:LYS:N	2.38	0.46
45:WA:332:ILE:O	45:WA:336:LYS:HG3	2.16	0.46
45:WA:430:LYS:O	45:WA:433:GLU:HG3	2.15	0.46
45:WC:242:LEU:HD11	45:WC:252:ILE:HG12	1.97	0.46
46:WD:294:PHE:CE2	46:WD:333:VAL:HG11	2.50	0.46
45:WE:296:PHE:HE2	45:WE:335:ILE:HG13	1.80	0.46
45:WE:352:LYS:HZ1	46:WH:178:THR:HA	1.76	0.46
45:WE:434:GLU:O	45:WE:437:ILE:HG12	2.16	0.46
46:WF:21:TRP:HA	46:WF:24:ILE:HG22	1.98	0.46
46:WF:167:PHE:CZ	46:WF:200:MET:HG3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WG:407:TRP:CE3	46:WH:255:VAL:HG12	2.50	0.46
46:WH:420:SER:O	46:WH:424:GLN:HG2	2.14	0.46
45:WI:398:MET:CE	46:WJ:346:PRO:HD2	2.46	0.46
45:WK:253:THR:HG23	45:WK:254:GLU:HG3	1.97	0.46
45:WM:119:LEU:HB3	45:WM:123:ARG:NH1	2.30	0.46
1:0A:121:ALA:HB2	46:AB:224:ASP:OD1	2.15	0.46
6:0F:20:LEU:HD22	45:EE:362:VAL:HG13	1.97	0.46
1:1A:118:LYS:NZ	45:AC:357:TYR:OH	2.34	0.46
4:1D:85:VAL:HG21	46:EF:243:PRO:HB2	1.98	0.46
12:1T:126:LYS:NZ	45:AC:338:LYS:O	2.36	0.46
23:2O:373:ARG:CZ	45:VC:282:TYR:HB2	2.46	0.46
16:3B:59:PHE:CD2	45:LG:32:PRO:HB2	2.50	0.46
16:3B:63:GLN:HB2	45:LG:80:THR:HG23	1.98	0.46
35:4S:111:GLU:OE2	35:4S:113:GLU:HG3	2.16	0.46
15:4X:60:GLU:O	15:4X:63:GLU:HG3	2.15	0.46
15:4X:64:ARG:HD2	15:4X:68:ARG:HH21	1.80	0.46
36:5A:91:HIS:NE2	36:5A:94:MET:HB3	2.29	0.46
37:5F:209:ARG:NH2	45:LG:264:ARG:HD3	2.30	0.46
37:5G:213:TYR:CD2	46:LN:392:LYS:HG3	2.50	0.46
37:5H:44:ARG:HH12	45:OK:285:GLN:CD	2.18	0.46
35:5S:74:LEU:HD13	35:5S:76:ILE:HD11	1.97	0.46
40:6G:281:THR:H	40:6G:284:LYS:NZ	2.13	0.46
40:6G:287:VAL:HA	40:6G:290:GLN:HG2	1.98	0.46
10:6Q:70:GLY:HA2	10:6Q:150:GLU:OE2	2.15	0.46
34:6R:174:PHE:O	34:6R:175:GLU:HG2	2.15	0.46
46:AB:203:ASP:OD2	46:AB:205:GLU:HB2	2.15	0.46
45:AI:115:VAL:O	45:AI:119:LEU:HG	2.15	0.46
45:AI:387:VAL:HG23	45:AI:388:PHE:CD2	2.51	0.46
46:AJ:201:VAL:HG23	46:AJ:301:CYS:SG	2.55	0.46
46:AL:148:GLY:O	46:AL:152:ILE:HG12	2.16	0.46
45:AM:397:LEU:HD21	46:AN:344:TRP:HA	1.97	0.46
45:BA:183:GLU:N	45:BA:184:PRO:HD2	2.30	0.46
46:BD:262:ARG:NH1	46:BD:421:GLU:OE2	2.49	0.46
46:BF:190:HIS:CD2	46:BF:411:ALA:HA	2.50	0.46
46:BF:217:LEU:HD12	46:BF:220:PRO:HD3	1.96	0.46
45:BG:175:PRO:HG3	45:BG:390:ARG:NH1	2.31	0.46
45:BI:407:TRP:HH2	46:BJ:254:ALA:HB1	1.79	0.46
46:BJ:318:ARG:HB2	46:BJ:364:ALA:HB3	1.97	0.46
46:CB:156:ARG:HH21	46:CB:164:MET:HB2	1.80	0.46
46:CD:68:LEU:HD12	46:CD:97:ALA:HB2	1.98	0.46
46:CD:107:THR:OG1	46:CD:108:GLU:OE1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CD:150:LEU:O	46:CD:154:LYS:HG2	2.15	0.46
46:CF:175:VAL:HG22	46:CF:205:GLU:HB3	1.96	0.46
45:CG:242:LEU:HD21	45:CG:251:ASP:HA	1.97	0.46
45:CI:395:PHE:HZ	45:CI:418:PHE:HB3	1.81	0.46
46:CJ:375:GLN:OE1	46:CJ:423:GLN:HB3	2.15	0.46
46:DB:203:ASP:O	46:DB:207:LEU:HG	2.16	0.46
46:DD:309:ARG:HD3	46:DD:342:VAL:HA	1.98	0.46
46:DF:259:PRO:HA	45:DG:404:PHE:CD2	2.50	0.46
45:DI:175:PRO:HG3	45:DI:390:ARG:NH2	2.30	0.46
45:DK:289:ALA:O	45:DK:292:THR:HG22	2.16	0.46
46:DL:3:GLU:HB2	46:DL:62:ARG:NH1	2.30	0.46
46:EB:46:ARG:HH11	46:EB:46:ARG:HA	1.80	0.46
45:EI:241:SER:OG	45:EI:250:VAL:O	2.23	0.46
45:EI:268:MET:HB2	45:EI:379:SER:O	2.16	0.46
45:EM:238:LEU:N	45:EM:318:MET:HE1	2.31	0.46
45:FA:11:GLN:NE2	46:FB:247:ASN:OD1	2.49	0.46
45:FA:387:VAL:HG12	45:FA:390:ARG:CZ	2.45	0.46
46:FB:321:MET:HB3	46:FB:363:MET:HE2	1.98	0.46
45:FC:19:ALA:HA	45:FC:22:GLU:OE1	2.16	0.46
45:FC:111:GLY:O	45:FC:115:VAL:HG13	2.15	0.46
46:FD:21:TRP:CZ3	46:FD:63:ALA:HB2	2.50	0.46
45:FE:399:TYR:OH	45:FE:402:ARG:NH2	2.48	0.46
46:FH:173:PRO:HG2	46:FH:380:ARG:HE	1.79	0.46
45:GA:171:ILE:HG22	45:GA:204:LEU:HB2	1.98	0.46
45:GC:177:VAL:CG2	46:GD:331:LEU:HD11	2.46	0.46
46:GD:404:ASP:N	46:GD:407:GLU:OE2	2.26	0.46
45:GG:224:TYR:HE2	46:GH:323:THR:HG1	1.62	0.46
46:GH:222:TYR:O	46:GH:226:ASN:ND2	2.35	0.46
45:GI:27:GLU:HG3	45:GI:361:THR:HG21	1.98	0.46
45:GK:215:ARG:HA	45:GK:215:ARG:CZ	2.45	0.46
45:HA:179:THR:HG22	46:HB:350:LYS:HZ1	1.80	0.46
46:HB:28:HIS:NE2	46:HB:241:ARG:HD2	2.30	0.46
46:HB:207:LEU:HD13	46:HB:225:LEU:HB3	1.96	0.46
46:HJ:238:CYS:SG	46:HJ:239:CYS:N	2.87	0.46
46:HJ:383:GLU:HA	46:HJ:383:GLU:OE1	2.16	0.46
46:HL:395:LEU:O	46:HL:399:THR:HG23	2.16	0.46
45:HM:123:ARG:NH1	45:HM:161:TYR:OH	2.45	0.46
45:IA:88:HIS:HA	46:JB:281:TYR:HD1	1.81	0.46
45:IC:328:VAL:HG11	45:IC:353:VAL:HG21	1.97	0.46
46:ID:48:ASN:ND2	46:ID:48:ASN:O	2.47	0.46
46:IH:230:SER:HA	46:IH:233:MET:HG3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IK:251:ASP:OD1	45:IK:252:ILE:N	2.48	0.46
46:IL:105:HIS:CD2	46:IL:150:LEU:HB2	2.51	0.46
45:JA:239:THR:HG23	45:JA:243:ARG:HH21	1.80	0.46
46:JB:309:ARG:NH2	46:JB:426:GLN:O	2.48	0.46
45:JC:192:HIS:NE2	45:JC:424:ASP:OD2	2.48	0.46
46:JJ:407:GLU:HA	46:JJ:410:GLU:OE1	2.15	0.46
46:JL:173:PRO:HB3	46:JL:384:GLN:HE22	1.81	0.46
46:KB:107:THR:OG1	46:KB:108:GLU:OE1	2.29	0.46
45:KI:265:ILE:O	45:KI:265:ILE:HG13	2.15	0.46
46:LB:51:TYR:HB3	46:LB:59:TYR:HB3	1.98	0.46
46:LD:9:GLY:HA2	46:LD:66:MET:O	2.16	0.46
45:LG:288:VAL:HA	45:LG:291:ILE:HG12	1.98	0.46
46:LJ:233:MET:O	46:LJ:236:VAL:HG12	2.16	0.46
46:LL:233:MET:O	46:LL:236:VAL:HG12	2.15	0.46
46:LL:298:ASN:HD22	46:LL:298:ASN:C	2.18	0.46
46:MB:99:ASN:HA	46:MB:142:GLY:H	1.80	0.46
46:MB:118:ASP:CG	46:MB:122:LYS:HZ3	2.18	0.46
46:MB:132:GLY:HA3	46:MB:163:ILE:HG22	1.96	0.46
45:MC:319:TYR:HB3	45:MC:323:VAL:HG11	1.97	0.46
45:ME:102:ASN:ND2	45:ME:105:ARG:HG3	2.31	0.46
45:MG:311:LYS:N	45:MG:382:THR:OG1	2.49	0.46
45:MI:46:ASP:HB3	45:MI:47:ASP:H	1.58	0.46
45:MI:262:TYR:OH	46:ML:391:ARG:O	2.33	0.46
46:MJ:99:ASN:ND2	49:MJ:501:GDP:O2A	2.44	0.46
45:NA:120:ASP:O	45:NA:123:ARG:HG2	2.15	0.46
46:NB:25:SER:OG	46:NB:30:ILE:O	2.32	0.46
46:NB:204:ASN:OD1	46:NB:205:GLU:N	2.48	0.46
46:ND:152:ILE:HA	46:ND:155:VAL:HG22	1.98	0.46
46:ND:190:HIS:CD2	46:ND:414:ASN:HD22	2.34	0.46
46:ND:318:ARG:HD2	46:ND:354:CYS:HB3	1.97	0.46
45:NE:276:ILE:HG21	45:NE:283:HIS:CE1	2.51	0.46
46:NF:3:GLU:H	46:NF:3:GLU:CD	2.19	0.46
45:NI:331:SER:O	45:NI:335:ILE:HG12	2.16	0.46
46:NJ:116:VAL:HA	46:NJ:119:VAL:HG12	1.98	0.46
46:NL:22:GLU:HA	46:NL:81:PHE:CD1	2.50	0.46
46:OD:20:PHE:CD1	46:OD:233:MET:HE3	2.51	0.46
46:OH:118:ASP:O	46:OH:121:ARG:HG2	2.16	0.46
46:OJ:207:LEU:HB3	46:OJ:225:LEU:HD22	1.96	0.46
46:OL:11:GLN:O	46:OL:15:GLN:HG2	2.16	0.46
46:PB:73:MET:HE3	46:PB:92:PHE:HB3	1.98	0.46
45:PE:205:ASP:OD2	45:PE:303:ALA:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:222:PRO:O	46:PF:322:SER:HB2	2.15	0.46
45:PI:90:GLU:HG3	45:QI:280:LYS:NZ	2.30	0.46
45:PK:171:ILE:HG23	45:PK:204:LEU:O	2.16	0.46
45:PM:226:ASN:OD1	45:PM:227:LEU:N	2.49	0.46
46:PN:190:HIS:O	46:PN:193:VAL:HG12	2.15	0.46
45:QA:184:PRO:O	45:QA:188:ILE:HG12	2.15	0.46
46:QB:105:HIS:CD2	46:QB:150:LEU:HD23	2.50	0.46
46:QB:154:LYS:HA	46:QB:157:GLU:OE1	2.16	0.46
45:QC:326:LYS:HZ3	46:QD:220:PRO:C	2.18	0.46
45:QE:21:TRP:CZ2	45:QE:65:ALA:HB2	2.50	0.46
45:QG:304:LYS:HA	45:QG:304:LYS:HE2	1.96	0.46
45:QK:211:ASP:HA	45:QK:214:ARG:HG2	1.97	0.46
45:QK:277:SER:H	45:QK:280:LYS:HZ3	1.63	0.46
46:QL:383:GLU:HA	46:QL:386:THR:HG22	1.98	0.46
45:QM:88:HIS:O	45:QM:91:GLN:HG2	2.16	0.46
46:RD:207:LEU:HD13	46:RD:225:LEU:HB3	1.96	0.46
46:RF:258:ILE:HG13	46:RF:258:ILE:O	2.15	0.46
45:RG:320:ARG:HH22	45:RG:360:PRO:HA	1.80	0.46
46:RH:327:ASP:HA	46:RH:330:MET:HE3	1.96	0.46
45:RI:141:VAL:HG11	45:RI:172:TYR:HA	1.98	0.46
46:RJ:10:GLY:O	46:RJ:14:ASN:ND2	2.48	0.46
45:RK:49:PHE:HB2	45:RK:53:PHE:CD1	2.51	0.46
46:RL:346:PRO:HD3	45:RM:397:LEU:HD22	1.98	0.46
45:RM:280:LYS:HZ2	45:RM:283:HIS:HB3	1.80	0.46
46:RN:86:ARG:NE	46:RN:87:PRO:HD2	2.30	0.46
46:RN:167:PHE:CZ	46:RN:233:MET:HG3	2.50	0.46
45:SA:413:MET:HB3	45:SA:413:MET:HE2	1.90	0.46
46:SB:345:ILE:HG22	46:SB:348:ASN:HB3	1.98	0.46
46:SF:67:ASP:OD1	46:SF:68:LEU:N	2.48	0.46
46:SF:407:GLU:HA	46:SF:410:GLU:HG2	1.98	0.46
46:SH:399:THR:HA	46:SH:403:MET:O	2.16	0.46
45:SI:205:ASP:OD1	45:SI:303:ALA:HA	2.14	0.46
46:SL:33:THR:HG23	46:SL:35:THR:HG23	1.97	0.46
46:SL:46:ARG:NH2	45:SM:73:THR:HA	2.31	0.46
46:SL:324:LYS:NZ	45:SM:210:TYR:HB3	2.30	0.46
45:TA:288:VAL:HA	45:TA:291:ILE:HG12	1.98	0.46
46:TB:239:CYS:HB3	46:TB:354:CYS:HB2	1.98	0.46
46:TB:261:PRO:HD3	45:TC:406:HIS:NE2	2.29	0.46
46:TD:347:ASN:O	45:TE:181:VAL:HG12	2.16	0.46
45:TE:417:GLU:OE1	45:TE:417:GLU:N	2.48	0.46
46:TF:269:GLY:HA2	46:TF:300:MET:HG2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TI:19:ALA:HA	45:TI:22:GLU:OE1	2.15	0.46
45:TI:401:LYS:HB2	45:TI:401:LYS:HE3	1.78	0.46
46:TL:269:GLY:HA2	46:TL:300:MET:CE	2.45	0.46
46:TL:341:PHE:HB3	46:TL:348:ASN:HD21	1.79	0.46
45:TM:71:GLU:OE2	45:TM:73:THR:OG1	2.24	0.46
45:TM:187:SER:O	45:TM:191:THR:HG23	2.15	0.46
45:TM:315:CYS:SG	45:TM:379:SER:OG	2.70	0.46
46:UB:324:LYS:HZ2	45:UC:221:ARG:HA	1.79	0.46
45:UE:60:LYS:NZ	45:UE:86:LEU:HA	2.30	0.46
46:UJ:86:ARG:HH21	46:UJ:87:PRO:CG	2.27	0.46
45:UK:194:LEU:HB2	45:UK:198:THR:OG1	2.15	0.46
45:UM:83:TYR:H	45:UM:84:ARG:HH11	1.62	0.46
45:UM:340:THR:HG23	45:UM:341:ILE:HG13	1.98	0.46
46:UN:67:ASP:O	46:UN:92:PHE:HA	2.15	0.46
45:VE:22:GLU:OE1	45:VE:83:TYR:OH	2.29	0.46
46:VF:254:ALA:O	46:VF:258:ILE:HG12	2.16	0.46
45:VG:288:VAL:HA	45:VG:291:ILE:HG22	1.97	0.46
45:VK:179:THR:HG21	46:VL:246:LEU:HD22	1.97	0.46
45:WA:268:MET:CE	45:WA:378:ILE:HG22	2.45	0.46
45:WI:331:SER:O	45:WI:335:ILE:HG12	2.15	0.46
46:WL:310:TYR:CD1	46:WL:371:SER:HB2	2.50	0.46
45:CE:212:ILE:HD11	45:CE:300:ASN:HA	1.97	0.46
8:1H:108:GLU:HG2	46:GL:56:GLY:H	1.80	0.46
19:1J:140:PHE:HE1	45:IE:282:TYR:CZ	2.33	0.46
26:1W:85:ILE:HD13	45:LE:282:TYR:CD1	2.50	0.46
25:2R:382:TYR:HA	46:EH:276:ARG:HH12	1.80	0.46
11:3S:261:LEU:HD13	46:AN:424:GLN:HG3	1.96	0.46
36:5A:31:SER:H	36:5A:36:ARG:NH2	2.13	0.46
36:5C:161:ILE:O	36:5C:165:LYS:HG2	2.16	0.46
37:5E:213:TYR:HA	37:5E:216:LYS:HD3	1.96	0.46
37:5F:144:LEU:O	37:5F:147:GLN:HG3	2.15	0.46
37:5G:67:ARG:NH1	37:5G:68:PRO:O	2.48	0.46
37:5H:40:TYR:HB3	37:5H:42:TYR:HE1	1.80	0.46
10:5Q:10:PHE:HE1	10:5Q:172:TYR:HD2	1.63	0.46
10:6Q:22:LEU:HD12	10:6Q:22:LEU:O	2.15	0.46
34:6R:231:TYR:HA	34:6R:234:VAL:HG22	1.97	0.46
44:8R:125:TYR:CD1	45:PI:279:GLU:HA	2.50	0.46
46:AD:372:THR:HA	46:AD:422:TYR:HE1	1.79	0.46
46:AF:202:ILE:HD11	46:AF:268:ILE:HD11	1.97	0.46
45:AI:317:MET:HE2	45:AI:319:TYR:CE1	2.50	0.46
45:BC:72:PRO:HG2	46:BD:1:MET:SD	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BE:100:ALA:HA	46:BF:252:LYS:HE2	1.98	0.46
46:BF:22:GLU:HG2	46:BF:81:PHE:CD1	2.51	0.46
45:BG:199:ASP:OD2	45:BG:256:GLN:NE2	2.49	0.46
45:BG:352:LYS:HD2	45:BG:353:VAL:H	1.81	0.46
45:BK:181:VAL:HG13	45:BK:182:VAL:HG13	1.97	0.46
45:BK:317:MET:HB3	45:BK:319:TYR:CE1	2.50	0.46
45:BM:1:MET:O	45:BM:131:GLY:HA3	2.15	0.46
45:BM:240:ALA:HB1	45:BM:358:GLN:OE1	2.15	0.46
45:CC:47:ASP:OD1	45:CC:48:ALA:N	2.48	0.46
45:CC:116:ASP:O	45:CC:119:LEU:HG	2.16	0.46
46:CD:181:GLU:HB2	46:CD:182:PRO:HD3	1.97	0.46
46:CF:344:TRP:CE3	46:CF:345:ILE:HG23	2.51	0.46
45:CG:183:GLU:N	45:CG:184:PRO:HD2	2.31	0.46
45:CI:3:GLU:HG2	45:CI:132:LEU:HA	1.96	0.46
46:CL:2:ARG:HB2	46:CL:131:GLN:HB2	1.97	0.46
45:CM:140:SER:OG	47:CM:501:GTP:O2B	2.34	0.46
45:DG:90:GLU:OE1	45:EG:280:LYS:NZ	2.36	0.46
46:DH:11:GLN:HA	46:DH:14:ASN:HD22	1.81	0.46
45:DI:107:HIS:HA	45:DI:152:LEU:HD11	1.97	0.46
46:DJ:19:LYS:HE2	46:DJ:227:HIS:HB2	1.97	0.46
45:DK:252:ILE:HA	45:DK:255:PHE:HE2	1.81	0.46
46:DL:213:ARG:NH1	46:DL:297:LYS:HB3	2.30	0.46
46:DL:317:PHE:CD2	46:DL:365:VAL:HG22	2.51	0.46
45:DM:346:TRP:CD1	46:DN:391:ARG:HG3	2.50	0.46
46:ED:289:LEU:HD11	46:ED:363:MET:HB3	1.97	0.46
45:EG:288:VAL:HG11	45:EG:327:ASP:HB3	1.97	0.46
45:EM:195:LEU:HD21	45:EM:428:LEU:HD21	1.98	0.46
45:EM:326:LYS:NZ	46:EN:205:GLU:OE1	2.41	0.46
46:EN:182:PRO:HD2	46:EN:183:TYR:N	2.24	0.46
45:FC:209:ILE:HD11	45:FC:230:LEU:HD12	1.96	0.46
45:FG:68:LEU:HD13	45:FG:93:ILE:HB	1.98	0.46
46:FL:178:THR:HG22	46:FL:180:VAL:H	1.80	0.46
45:FM:319:TYR:HE1	45:FM:353:VAL:HG23	1.81	0.46
45:GA:356:ASN:OD1	45:GA:357:TYR:N	2.46	0.46
45:GE:104:ALA:HB1	45:GE:411:GLU:OE1	2.15	0.46
45:GE:164:LYS:O	45:GE:166:LYS:NZ	2.49	0.46
46:GF:203:ASP:OD2	46:GF:205:GLU:HB2	2.16	0.46
45:GG:175:PRO:HG2	45:GG:304:LYS:HG2	1.97	0.46
45:GG:296:PHE:CE2	45:GG:335:ILE:HG21	2.51	0.46
45:HA:331:SER:O	45:HA:335:ILE:HG12	2.15	0.46
45:HI:195:LEU:HD21	45:HI:264:ARG:HH21	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IC:121:ARG:HA	45:IC:121:ARG:HE	1.81	0.46
45:IE:237:SER:HA	45:IE:320:ARG:NH2	2.31	0.46
45:IG:340:THR:HG23	45:IG:341:ILE:HG23	1.97	0.46
45:IG:399:TYR:O	45:IG:402:ARG:NH1	2.48	0.46
45:II:100:ALA:HA	46:IJ:252:LYS:HE3	1.98	0.46
46:IL:273:LEU:N	46:IL:292:GLN:OE1	2.42	0.46
45:IM:152:LEU:O	45:IM:155:GLU:HG3	2.15	0.46
45:JA:384:ILE:O	45:JA:387:VAL:HG22	2.16	0.46
45:JC:141:VAL:HG23	45:JC:190:SER:HB3	1.98	0.46
45:JC:352:LYS:NZ	46:JF:178:THR:HG22	2.31	0.46
45:JG:346:TRP:CG	46:JJ:391:ARG:NH1	2.83	0.46
45:JK:191:THR:HA	45:JK:194:LEU:HG	1.97	0.46
45:JK:317:MET:HB3	45:JK:377:MET:SD	2.55	0.46
45:KA:116:ASP:N	45:KA:116:ASP:OD1	2.46	0.46
45:KA:183:GLU:N	45:KA:184:PRO:HD2	2.30	0.46
46:KF:198:GLU:HB3	46:KF:266:PHE:HE2	1.80	0.46
45:KG:31:GLN:HG3	45:KG:33:ASP:OD1	2.16	0.46
45:KG:184:PRO:HG2	45:KG:398:MET:HE1	1.98	0.46
45:KG:326:LYS:HA	45:KG:326:LYS:HD3	1.56	0.46
45:KK:7:ILE:HB	45:KK:137:VAL:HG12	1.97	0.46
46:KL:6:HIS:HE1	46:KL:8:GLN:HB3	1.80	0.46
46:KL:101:TRP:HB2	46:KL:184:ASN:HB3	1.97	0.46
45:KM:288:VAL:HA	45:KM:291:ILE:HG12	1.97	0.46
45:LA:210:TYR:CE1	45:LA:227:LEU:HD11	2.51	0.46
47:LA:501:GTP:H8	47:LA:501:GTP:O2A	1.99	0.46
46:LD:52:ASN:OD1	46:LD:62:ARG:NH2	2.49	0.46
46:LF:19:LYS:O	46:LF:22:GLU:HG3	2.14	0.46
46:LL:286:VAL:HG23	46:LL:287:PRO:HD3	1.97	0.46
45:MA:75:ILE:HA	45:MA:78:VAL:HG12	1.97	0.46
45:MA:102:ASN:OD1	45:MA:105:ARG:N	2.40	0.46
46:MB:391:ARG:HA	46:MB:391:ARG:HD2	1.76	0.46
45:ME:223:THR:HG22	45:ME:224:TYR:N	2.31	0.46
46:MH:139:LEU:HD12	46:MH:188:SER:OG	2.16	0.46
45:MI:46:ASP:O	45:MI:47:ASP:OD1	2.34	0.46
45:MI:93:ILE:HG22	45:MI:114:ILE:HD11	1.98	0.46
45:NA:71:GLU:OE2	45:NA:73:THR:OG1	2.28	0.46
45:NA:140:SER:HA	45:NA:171:ILE:HB	1.98	0.46
46:ND:154:LYS:NZ	46:ND:154:LYS:HB2	2.30	0.46
45:NE:11:GLN:HG3	45:NE:74:VAL:HG11	1.98	0.46
45:NI:116:ASP:OD1	45:NI:117:LEU:N	2.48	0.46
45:NK:188:ILE:HG12	45:NK:421:ALA:HB1	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:195:LEU:HD21	45:NK:264:ARG:HE	1.80	0.46
45:NK:326:LYS:HD3	46:NN:220:PRO:HD2	1.96	0.46
45:OC:115:VAL:HG11	45:OC:152:LEU:HD23	1.97	0.46
46:OF:332:ASN:O	46:OF:336:LYS:HG3	2.15	0.46
45:OG:31:GLN:NE2	45:OG:35:GLN:O	2.48	0.46
45:OG:398:MET:SD	46:OH:345:ILE:HG22	2.56	0.46
46:OJ:52:ASN:OD1	46:OJ:62:ARG:NH2	2.49	0.46
45:OK:175:PRO:HG3	45:OK:390:ARG:NE	2.31	0.46
45:OM:221:ARG:HH21	46:ON:322:SER:HG	1.58	0.46
46:ON:24:ILE:HG23	46:ON:28:HIS:CE1	2.50	0.46
46:ON:145:SER:HB3	46:ON:188:SER:HB3	1.97	0.46
45:PA:80:THR:HA	45:PA:84:ARG:HH21	1.81	0.46
45:PA:100:ALA:HA	46:PB:252:LYS:HE2	1.98	0.46
45:PE:434:GLU:O	45:PE:437:ILE:HG12	2.15	0.46
45:PI:387:VAL:HA	45:PI:390:ARG:HE	1.80	0.46
46:PJ:47:ILE:HD12	46:PJ:59:TYR:CE1	2.50	0.46
45:PK:211:ASP:HA	45:PK:214:ARG:HG2	1.97	0.46
45:PM:171:ILE:HG13	45:PM:171:ILE:O	2.16	0.46
46:PN:344:TRP:CD1	46:PN:345:ILE:HG23	2.51	0.46
46:QB:67:ASP:OD1	46:QB:68:LEU:N	2.47	0.46
45:QC:305:CYS:SG	45:QC:306:ASP:N	2.89	0.46
46:QD:65:LEU:HD22	46:QD:90:PHE:CE1	2.51	0.46
45:QE:261:PRO:HA	46:QF:394:PHE:HD1	1.80	0.46
45:QE:319:TYR:HB3	45:QE:323:VAL:HG11	1.96	0.46
45:QG:251:ASP:OD1	45:QG:252:ILE:N	2.48	0.46
46:QJ:153:SER:HA	46:QJ:195:ASN:HD22	1.80	0.46
45:QK:184:PRO:O	45:QK:188:ILE:HG12	2.16	0.46
46:QL:28:HIS:HA	46:QL:43:GLN:CD	2.36	0.46
45:QM:401:LYS:HB2	45:QM:401:LYS:HE3	1.67	0.46
45:RA:188:ILE:HD11	45:RA:391:LEU:HB3	1.96	0.46
46:RB:100:ASN:HD22	46:RB:103:LYS:HB2	1.81	0.46
45:RE:10:GLY:O	45:RE:14:ILE:HG12	2.16	0.46
45:RG:312:TYR:CE2	45:RG:341:ILE:HG23	2.51	0.46
45:RK:319:TYR:HB3	45:RK:323:VAL:HG21	1.97	0.46
45:SE:118:CYS:O	45:SE:122:ILE:HG12	2.16	0.46
46:SF:181:GLU:HG3	46:SF:182:PRO:HD3	1.96	0.46
45:SG:260:VAL:HG13	45:SG:265:ILE:O	2.16	0.46
45:SI:21:TRP:CZ3	45:SI:63:PRO:HB3	2.51	0.46
46:SJ:3:GLU:HG3	46:SJ:62:ARG:NH1	2.30	0.46
46:SJ:183:TYR:HA	46:SJ:385:PHE:CE1	2.50	0.46
46:SJ:415:MET:O	46:SJ:419:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SN:73:MET:HE3	46:SN:92:PHE:HB3	1.98	0.46
45:TA:98:ASP:OD1	45:TA:99:ALA:N	2.48	0.46
45:TC:19:ALA:HA	45:TC:22:GLU:OE1	2.14	0.46
45:TC:188:ILE:HD12	45:TC:425:LEU:HD11	1.98	0.46
45:TC:318:MET:HB3	45:TC:376:CYS:SG	2.55	0.46
45:TC:419:SER:O	45:TC:423:GLU:OE1	2.34	0.46
45:TE:420:GLU:HA	45:TE:423:GLU:OE1	2.14	0.46
46:TH:293:MET:HE3	46:TH:367:PHE:HB3	1.98	0.46
45:TI:141:VAL:HG12	45:TI:171:ILE:O	2.16	0.46
46:TJ:255:VAL:O	45:TK:407:TRP:HZ3	1.98	0.46
45:TK:209:ILE:HA	45:TK:212:ILE:HG22	1.96	0.46
46:TL:246:LEU:HA	45:TM:11:GLN:HE22	1.80	0.46
45:TM:254:GLU:OE1	45:TM:258:ASN:ND2	2.49	0.46
45:UC:263:PRO:HD3	46:UD:396:HIS:CD2	2.50	0.46
46:UJ:275:SER:O	46:UJ:279:GLN:HG2	2.16	0.46
46:UJ:391:ARG:HA	46:UJ:391:ARG:HD2	1.75	0.46
45:UK:141:VAL:HG12	45:UK:171:ILE:O	2.16	0.46
46:UL:109:GLY:O	46:UL:113:ILE:HG23	2.15	0.46
45:VA:270:SER:O	45:VA:302:MET:HB2	2.16	0.46
45:VA:343:PHE:HZ	45:VA:351:PHE:HE1	1.63	0.46
46:VB:3:GLU:HB2	46:VB:62:ARG:HH22	1.80	0.46
45:VC:88:HIS:O	45:VC:91:GLN:HG2	2.15	0.46
46:VF:186:THR:HA	46:VF:189:VAL:HG12	1.96	0.46
45:WE:188:ILE:HG23	45:WE:425:LEU:HD11	1.96	0.46
45:WG:122:ILE:HD13	45:WG:125:LEU:HD21	1.98	0.46
45:WG:174:SER:HB2	45:WG:177:VAL:O	2.16	0.46
46:WL:6:HIS:O	46:WL:63:ALA:HA	2.15	0.46
46:WL:228:LEU:HD11	46:WL:273:LEU:HD21	1.96	0.46
45:CE:320:ARG:HB2	45:CE:358:GLN:O	2.15	0.46
45:DC:68:LEU:HD21	45:DC:118:CYS:SG	2.56	0.46
4:0D:171:LEU:HD23	45:EC:79:ARG:HH21	1.77	0.46
7:0G:46:LYS:HE3	45:JK:77:GLU:OE2	2.15	0.46
21:1L:282:LYS:HZ3	46:BH:355:ASP:HB3	1.81	0.46
21:1L:305:GLN:HE22	45:BG:279:GLU:HG3	1.80	0.46
21:1L:575:LYS:HZ3	45:AE:84:ARG:HE	1.63	0.46
24:1P:189:HIS:HB2	46:TH:362:LYS:NZ	2.30	0.46
25:1R:70:THR:HG22	46:MD:320:ARG:HE	1.80	0.46
4:2D:77:ASN:HB2	46:EJ:362:LYS:NZ	2.30	0.46
31:2I:32:PHE:CE1	45:GG:177:VAL:HG21	2.51	0.46
31:2I:75:SER:HG	45:FE:161:TYR:HH	1.61	0.46
20:2K:346:ILE:HD13	46:GJ:362:LYS:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:3V:133:TYR:CD2	46:LD:424:GLN:HG3	2.50	0.46
37:5F:28:SER:OG	37:5F:29:LYS:N	2.48	0.46
37:5G:45:PRO:C	37:5G:48:ARG:HH22	2.18	0.46
37:5H:149:ARG:HA	37:5H:152:GLN:HG2	1.97	0.46
40:6G:276:PRO:O	45:VA:215:ARG:NH1	2.48	0.46
45:AA:174:SER:HB2	45:AA:177:VAL:O	2.15	0.46
45:AC:237:SER:HA	45:AC:320:ARG:HH11	1.80	0.46
46:AH:28:HIS:C	46:AH:43:GLN:HE21	2.19	0.46
45:AK:285:GLN:OE1	45:MK:56:THR:HA	2.14	0.46
46:AL:105:HIS:CE1	46:AL:150:LEU:HD12	2.50	0.46
45:AM:212:ILE:HD11	45:AM:300:ASN:HA	1.97	0.46
46:BH:336:LYS:HD3	46:BH:336:LYS:N	2.30	0.46
45:BM:340:THR:HG23	45:BM:341:ILE:HG23	1.96	0.46
46:BN:73:MET:SD	46:BN:90:PHE:HD1	2.38	0.46
46:BN:77:ARG:NH1	46:BN:82:GLY:O	2.49	0.46
46:BN:262:ARG:NE	46:BN:421:GLU:OE2	2.32	0.46
45:CA:19:ALA:HA	45:CA:22:GLU:OE1	2.16	0.46
46:CB:154:LYS:HA	46:CB:154:LYS:HD3	1.78	0.46
45:CC:153:LEU:O	45:CC:157:LEU:HD23	2.16	0.46
46:CD:161:ASP:OD2	46:CD:162:ARG:NH1	2.42	0.46
46:CD:222:TYR:O	46:CD:226:ASN:ND2	2.26	0.46
45:CG:88:HIS:HB3	45:CG:91:GLN:HB2	1.98	0.46
45:CI:188:ILE:HD12	45:CI:425:LEU:HD11	1.95	0.46
46:CL:293:MET:SD	46:CL:365:VAL:HG11	2.56	0.46
45:CM:183:GLU:N	45:CM:184:PRO:HD2	2.31	0.46
45:DE:417:GLU:OE1	45:DE:417:GLU:N	2.41	0.46
45:DM:269:LEU:HD23	45:DM:379:SER:O	2.15	0.46
46:EF:58:ARG:NH1	46:FF:280:GLN:HE22	2.14	0.46
45:EG:349:THR:HG21	46:EH:181:GLU:OE2	2.16	0.46
45:EM:132:LEU:HD23	45:EM:164:LYS:HE2	1.98	0.46
45:EM:371:VAL:HG22	45:EM:373:ARG:H	1.80	0.46
45:FA:98:ASP:OD1	45:FA:99:ALA:N	2.48	0.46
45:FA:326:LYS:HG3	46:FD:220:PRO:HG2	1.98	0.46
46:FD:138:SER:HA	46:FD:169:VAL:HB	1.98	0.46
47:FE:501:GTP:O1G	46:FF:252:LYS:NZ	2.36	0.46
46:FJ:318:ARG:HD3	46:FJ:358:PRO:HD3	1.98	0.46
45:FK:81:GLY:O	45:FK:84:ARG:HG3	2.15	0.46
46:GJ:86:ARG:HD3	46:HJ:281:TYR:CE2	2.50	0.46
45:GK:68:LEU:HD13	45:GK:93:ILE:HB	1.97	0.46
46:GL:150:LEU:O	46:GL:154:LYS:HG2	2.16	0.46
46:HB:237:THR:O	46:HB:241:ARG:NH1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HF:132:GLY:HA3	46:HF:163:ILE:CG1	2.42	0.46
46:HF:221:THR:O	46:HF:225:LEU:HD12	2.16	0.46
45:HG:98:ASP:OD1	45:HG:99:ALA:N	2.48	0.46
45:HG:222:PRO:HG2	46:HH:324:LYS:HD2	1.96	0.46
46:HH:156:ARG:NH1	46:HH:197:ASP:OD1	2.46	0.46
45:HI:328:VAL:O	45:HI:332:ILE:HG12	2.15	0.46
46:HJ:16:ILE:HD12	46:HJ:229:VAL:HG11	1.98	0.46
45:HK:210:TYR:HE1	46:HL:324:LYS:HB2	1.80	0.46
46:HN:396:HIS:CE1	46:HN:397:TRP:CD1	3.03	0.46
45:IA:263:PRO:HD3	46:ID:396:HIS:CE1	2.51	0.46
46:IB:260:PHE:HB2	46:IB:263:LEU:HD13	1.98	0.46
45:IC:172:TYR:OH	45:IC:191:THR:HG22	2.15	0.46
45:IC:183:GLU:N	45:IC:184:PRO:HD2	2.30	0.46
45:IG:207:GLU:HA	45:IG:210:TYR:CD2	2.50	0.46
45:IG:226:ASN:ND2	45:IG:367:ASP:OD2	2.49	0.46
46:IJ:6:HIS:CE1	46:IJ:8:GLN:NE2	2.84	0.46
45:IK:60:LYS:NZ	45:IK:85:GLN:O	2.47	0.46
46:IN:163:ILE:HD11	46:IN:251:ARG:HA	1.97	0.46
46:JB:65:LEU:HD12	46:JB:90:PHE:CE1	2.51	0.46
46:JB:372:THR:O	46:JB:375:GLN:HG2	2.16	0.46
45:JC:31:GLN:OE1	45:JC:37:PRO:HD3	2.16	0.46
45:JC:98:ASP:OD2	45:JC:99:ALA:N	2.48	0.46
45:JG:278:ALA:HA	45:JG:369:ALA:HB2	1.97	0.46
45:JI:260:VAL:HG23	45:JI:265:ILE:O	2.16	0.46
46:JJ:186:THR:HG23	46:JJ:187:LEU:HD22	1.98	0.46
45:JM:96:LYS:HD2	45:JM:96:LYS:HA	1.71	0.46
46:KF:67:ASP:OD1	46:KF:68:LEU:N	2.45	0.46
46:KH:313:ALA:HB1	46:KH:367:PHE:HE1	1.81	0.46
45:KI:10:GLY:O	45:KI:14:ILE:HG12	2.16	0.46
45:KM:187:SER:O	45:KM:191:THR:HG23	2.15	0.46
46:KN:372:THR:HG21	46:KN:426:GLN:HB3	1.97	0.46
46:LB:63:ALA:O	46:LB:89:ASN:ND2	2.46	0.46
45:MA:393:HIS:HA	45:MA:396:ASP:OD2	2.15	0.46
46:MB:16:ILE:HD12	46:MB:229:VAL:HG11	1.97	0.46
46:MD:66:MET:HE3	46:MD:116:VAL:HG21	1.96	0.46
45:MK:105:ARG:HD2	46:ML:251:ARG:HH21	1.80	0.46
46:NB:156:ARG:NE	46:NB:195:ASN:HA	2.30	0.46
45:NC:169:PHE:CD1	45:NC:202:VAL:HG21	2.51	0.46
45:NE:298:PRO:HG3	45:NE:308:ARG:NE	2.29	0.46
45:NE:320:ARG:HG3	45:NE:360:PRO:HG3	1.98	0.46
46:NF:7:ILE:HD11	46:NF:66:MET:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NJ:342:VAL:HG13	46:NJ:345:ILE:HG22	1.97	0.46
45:NK:210:TYR:CE1	45:NK:227:LEU:HD21	2.49	0.46
45:NM:177:VAL:HG12	45:NM:207:GLU:OE1	2.15	0.46
45:NM:223:THR:HG22	45:NM:224:TYR:N	2.30	0.46
45:NM:284:GLU:CD	45:NM:286:LEU:H	2.18	0.46
45:OA:206:ASN:OD1	45:OA:207:GLU:N	2.48	0.46
45:OA:210:TYR:HB3	45:OA:214:ARG:HH12	1.81	0.46
45:OC:202:VAL:HG12	45:OC:204:LEU:HG	1.97	0.46
46:OD:58:ARG:NH2	46:OD:84:LEU:HA	2.30	0.46
46:OF:344:TRP:CE3	46:OF:345:ILE:HG23	2.51	0.46
45:OG:178:SER:HB2	46:OH:347:ASN:ND2	2.30	0.46
45:OG:202:VAL:HG12	45:OG:204:LEU:HG	1.97	0.46
46:OH:2:ARG:HG2	46:OH:131:GLN:HG3	1.98	0.46
45:OI:8:HIS:HB2	45:OI:67:PHE:HD1	1.80	0.46
45:OM:10:GLY:O	45:OM:14:ILE:HG12	2.15	0.46
45:OM:88:HIS:ND1	45:OM:90:GLU:HG3	2.30	0.46
45:PA:181:VAL:HG12	46:PB:347:ASN:O	2.15	0.46
45:PC:384:ILE:O	45:PC:387:VAL:HG22	2.16	0.46
45:PE:258:ASN:ND2	45:PE:352:LYS:HE3	2.30	0.46
46:PF:183:TYR:HB3	46:PF:398:TYR:HE2	1.81	0.46
46:PH:184:ASN:OD1	46:PH:185:ALA:N	2.48	0.46
46:PH:238:CYS:SG	46:PH:239:CYS:N	2.89	0.46
45:PI:426:ALA:O	45:PI:429:GLU:HG3	2.16	0.46
46:PJ:4:ILE:HG13	46:PJ:132:GLY:O	2.16	0.46
46:PL:333:VAL:HA	46:PL:336:LYS:HG2	1.98	0.46
46:PL:391:ARG:HA	46:PL:391:ARG:HD2	1.72	0.46
45:QC:167:LEU:HD13	45:QC:200:VAL:HB	1.98	0.46
46:QF:341:PHE:HD2	46:QF:348:ASN:HD21	1.64	0.46
46:QH:167:PHE:CE2	46:QH:233:MET:HG3	2.51	0.46
45:QM:141:VAL:HG11	45:QM:172:TYR:CD1	2.47	0.46
46:RD:101:TRP:HB2	46:RD:184:ASN:HB3	1.97	0.46
45:RE:352:LYS:NZ	45:RE:353:VAL:O	2.49	0.46
46:RF:73:MET:N	46:RF:73:MET:SD	2.88	0.46
45:RG:56:THR:HG23	45:RG:58:ALA:H	1.81	0.46
45:RI:174:SER:HB3	45:RI:207:GLU:OE2	2.16	0.46
45:SG:171:ILE:HG23	45:SG:204:LEU:O	2.16	0.46
45:SI:208:ALA:O	45:SI:212:ILE:HG12	2.16	0.46
46:SJ:253:LEU:O	46:SJ:257:LEU:HD23	2.14	0.46
45:SK:254:GLU:OE2	45:SK:258:ASN:ND2	2.48	0.46
45:SM:75:ILE:HG22	45:SM:79:ARG:NE	2.28	0.46
46:TD:178:THR:N	46:TD:181:GLU:OE2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TI:171:ILE:HG23	45:TI:204:LEU:O	2.16	0.46
45:TK:82:THR:HA	45:TK:84:ARG:NH1	2.31	0.46
45:TK:132:LEU:HG	45:TK:164:LYS:HE2	1.98	0.46
46:TL:252:LYS:NZ	45:TM:98:ASP:OD2	2.48	0.46
46:TL:260:PHE:HB2	46:TL:263:LEU:HD23	1.96	0.46
45:TM:68:LEU:HD13	45:TM:93:ILE:HB	1.98	0.46
46:TN:186:THR:HA	46:TN:415:MET:HE1	1.97	0.46
46:UB:184:ASN:OD1	46:UB:185:ALA:N	2.49	0.46
45:UE:60:LYS:HZ1	45:UE:86:LEU:HA	1.80	0.46
46:UF:310:TYR:CD1	46:UF:371:SER:HB2	2.50	0.46
45:UI:324:VAL:HG12	45:UI:326:LYS:HG2	1.97	0.46
46:UJ:287:PRO:O	46:UJ:290:THR:HG22	2.15	0.46
46:UJ:310:TYR:CD1	46:UJ:371:SER:HB2	2.50	0.46
45:UM:231:ILE:O	45:UM:235:ILE:HG12	2.15	0.46
46:VB:196:ALA:HB3	46:VB:264:HIS:HE1	1.81	0.46
46:VB:248:SER:HA	46:VB:252:LYS:HD2	1.98	0.46
46:VB:344:TRP:HE3	46:VB:345:ILE:HG23	1.79	0.46
46:VF:240:LEU:HD21	46:VF:249:ASP:HA	1.97	0.46
45:VG:121:ARG:HD2	45:VG:124:LYS:HZ3	1.79	0.46
46:VH:164:MET:HE1	46:VH:196:ALA:HA	1.98	0.46
45:VI:414:GLU:OE2	45:VI:417:GLU:N	2.47	0.46
46:VJ:318:ARG:O	46:VJ:363:MET:HA	2.15	0.46
45:WA:133:GLN:HA	45:WA:133:GLN:NE2	2.31	0.46
45:WA:414:GLU:CD	45:WA:416:GLY:H	2.19	0.46
46:WB:317:PHE:CD1	46:WB:365:VAL:HG22	2.51	0.46
45:WE:206:ASN:HB3	45:WE:210:TYR:CZ	2.51	0.46
46:WF:226:ASN:HD21	49:WF:501:GDP:HN1	1.63	0.46
45:WG:208:ALA:N	45:WG:304:LYS:HD3	2.31	0.46
45:WG:261:PRO:HA	46:WJ:394:PHE:CD2	2.50	0.46
46:WH:210:ILE:HD11	46:WH:299:MET:O	2.15	0.46
46:WH:268:ILE:HG13	46:WH:300:MET:HG3	1.97	0.46
46:WH:377:MET:HA	46:WH:380:ARG:HG2	1.97	0.46
45:WI:68:LEU:HD21	45:WI:118:CYS:SG	2.55	0.46
46:WL:121:ARG:HG2	46:WL:125:GLU:OE1	2.15	0.46
45:WM:189:LEU:HD21	45:WM:418:PHE:CD1	2.50	0.46
46:WN:7:ILE:HG13	46:WN:64:ILE:HD13	1.96	0.46
45:DC:319:TYR:CE2	45:DC:328:VAL:HG22	2.50	0.46
4:OD:169:THR:O	45:EC:84:ARG:NH2	2.48	0.46
4:ID:174:TYR:OH	46:EF:45:GLU:OE1	2.30	0.46
11:2S:20:ASN:ND2	46:WJ:74:ASP:OD1	2.39	0.46
33:4F:23:LYS:HA	45:HI:225:THR:HG21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:4F:193:LYS:NZ	45:IM:220:GLU:H	2.14	0.46
10:4Q:53:ASN:ND2	45:AI:396:ASP:OD1	2.48	0.46
35:4S:92:GLU:HG3	35:4S:94:GLU:OE1	2.15	0.46
36:5B:27:LYS:NZ	36:5B:31:SER:OG	2.49	0.46
37:5E:123:ARG:HA	45:OA:370:LYS:HD2	1.97	0.46
37:5H:60:TRP:CZ3	46:ON:279:GLN:HG2	2.50	0.46
37:5H:96:TYR:O	37:5H:100:VAL:HG22	2.15	0.46
41:6H:200:GLN:NE2	41:6H:201:ILE:HG23	2.30	0.46
34:7R:253:ARG:HH11	45:CA:42:ILE:HD11	1.81	0.46
34:7R:397:SER:OG	46:EB:276:ARG:NE	2.28	0.46
46:AD:257:LEU:O	46:AD:259:PRO:HD3	2.16	0.46
46:AF:91:VAL:HG21	46:AF:116:VAL:HB	1.98	0.46
45:AG:322:ASP:OD1	45:AG:373:ARG:NH1	2.48	0.46
45:AK:100:ALA:O	46:AL:255:VAL:HG11	2.16	0.46
45:AM:338:LYS:HZ2	45:AM:339:ARG:H	1.61	0.46
45:BA:36:MET:SD	45:BA:37:PRO:HD2	2.56	0.46
45:BA:394:LYS:HE2	46:BB:346:PRO:HG2	1.98	0.46
45:BC:88:HIS:CD2	45:CC:280:LYS:NZ	2.84	0.46
45:BE:178:SER:HB2	45:BE:183:GLU:OE1	2.15	0.46
45:BE:268:MET:HG3	45:BE:380:ASN:HB2	1.98	0.46
46:BH:105:HIS:CD2	46:BH:150:LEU:HB2	2.49	0.46
46:BH:217:LEU:HG	46:BH:220:PRO:HD3	1.98	0.46
46:BH:380:ARG:O	46:BH:384:GLN:HG3	2.16	0.46
46:BL:245:GLN:NE2	46:BL:245:GLN:CA	2.79	0.46
45:BM:265:ILE:HG22	45:BM:432:TYR:HE1	1.81	0.46
45:BM:294:SER:O	45:BM:297:GLU:HG2	2.15	0.46
45:CA:141:VAL:HG11	45:CA:172:TYR:CD1	2.50	0.46
46:CB:252:LYS:HA	45:CC:100:ALA:HB1	1.97	0.46
45:CC:427:ALA:HA	45:CC:430:LYS:NZ	2.30	0.46
46:CH:238:CYS:SG	46:CH:239:CYS:N	2.89	0.46
46:CL:372:THR:HA	46:CL:422:TYR:CE2	2.51	0.46
46:DB:167:PHE:CD2	46:DB:200:MET:HB2	2.50	0.46
46:DD:11:GLN:HB3	46:DD:72:THR:HG21	1.97	0.46
45:DE:326:LYS:HG3	45:DE:327:ASP:H	1.80	0.46
45:DG:39:ASP:N	45:DG:39:ASP:OD1	2.48	0.46
45:DG:399:TYR:CE1	45:DG:418:PHE:HD2	2.34	0.46
46:DH:116:VAL:HA	46:DH:119:VAL:HG22	1.98	0.46
46:DL:317:PHE:HE1	46:DL:326:VAL:HG13	1.80	0.46
46:DN:268:ILE:HG22	46:DN:368:VAL:HG22	1.97	0.46
45:EA:272:TYR:HD1	45:EA:376:CYS:HB2	1.81	0.46
46:EB:320:ARG:HD3	46:EB:320:ARG:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EF:318:ARG:HH11	46:EF:358:PRO:HG3	1.81	0.46
46:EH:8:GLN:NE2	46:EH:65:LEU:HG	2.31	0.46
46:EH:172:SER:OG	46:EH:175:VAL:HG22	2.16	0.46
46:EL:345:ILE:HD13	45:EM:398:MET:SD	2.56	0.46
46:FD:119:VAL:HA	46:FD:122:LYS:HE2	1.98	0.46
46:FD:414:ASN:O	46:FD:418:LEU:HD23	2.16	0.46
45:FE:68:LEU:HD11	45:FE:118:CYS:SG	2.55	0.46
45:FE:431:ASP:O	45:FE:434:GLU:HG3	2.16	0.46
45:FM:4:VAL:HG13	45:FM:52:PHE:CE1	2.50	0.46
46:GB:309:ARG:NE	46:GB:309:ARG:HA	2.30	0.46
46:GD:21:TRP:CD1	46:GD:85:PHE:HZ	2.34	0.46
46:GD:372:THR:HA	46:GD:422:TYR:CE2	2.45	0.46
45:GG:123:ARG:HH22	45:GG:124:LYS:HB2	1.81	0.46
45:GI:102:ASN:ND2	45:GI:411:GLU:HG3	2.30	0.46
45:GI:184:PRO:O	45:GI:188:ILE:HG12	2.15	0.46
46:GJ:263:LEU:HD22	46:GJ:422:TYR:CD1	2.47	0.46
45:HA:69:ASP:OD1	45:HA:70:LEU:N	2.48	0.46
45:HC:258:ASN:ND2	45:HC:352:LYS:HE3	2.31	0.46
46:HF:156:ARG:NH1	46:HF:195:ASN:O	2.45	0.46
45:HI:408:TYR:O	45:HI:413:MET:HB3	2.16	0.46
46:HJ:166:THR:HG21	46:HJ:192:LEU:HD11	1.97	0.46
45:IA:8:HIS:HB2	45:IA:67:PHE:HD2	1.80	0.46
46:ID:285:THR:O	46:ID:288:GLU:HG3	2.15	0.46
45:IE:216:ASN:HB3	45:IE:275:ILE:O	2.16	0.46
46:IH:204:ASN:OD1	49:IH:501:GDP:O2'	2.33	0.46
45:JA:217:LEU:HB3	45:JA:219:ILE:HG13	1.98	0.46
46:JB:336:LYS:HB3	46:JB:336:LYS:HE3	1.75	0.46
45:JC:88:HIS:HE1	45:JC:90:GLU:HG2	1.79	0.46
45:JE:242:LEU:HD11	45:JE:252:ILE:HG23	1.97	0.46
46:JF:68:LEU:HB3	46:JF:96:GLY:HA2	1.98	0.46
45:JG:200:VAL:HG13	45:JG:268:MET:CE	2.46	0.46
45:JI:339:ARG:O	45:JI:342:GLN:NE2	2.48	0.46
46:JJ:208:TYR:HE1	46:JJ:225:LEU:HD11	1.81	0.46
46:JL:266:PHE:CE1	46:JL:370:ASN:HB2	2.51	0.46
46:KB:68:LEU:HD12	46:KB:97:ALA:HB2	1.97	0.46
46:KD:54:ALA:HA	46:LD:283:ALA:HB2	1.98	0.46
46:KF:334:GLN:NE2	46:KF:348:ASN:OD1	2.49	0.46
46:KJ:190:HIS:NE2	46:KJ:410:GLU:OE1	2.49	0.46
45:LA:37:PRO:O	45:LA:38:SER:OG	2.29	0.46
45:LC:288:VAL:CG1	45:LC:327:ASP:HB3	2.46	0.46
46:LD:3:GLU:OE1	46:LD:3:GLU:N	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LD:423:GLN:HE21	46:LD:424:GLN:HG2	1.80	0.46
46:LH:345:ILE:O	46:LH:345:ILE:HG13	2.15	0.46
45:LM:212:ILE:HD11	45:LM:300:ASN:HA	1.97	0.46
45:MA:254:GLU:O	45:MA:255:PHE:HD1	1.99	0.46
45:MC:242:LEU:HD11	45:MC:252:ILE:HG12	1.97	0.46
45:MI:194:LEU:O	45:MI:198:THR:HG22	2.16	0.46
45:MI:288:VAL:HA	45:MI:291:ILE:HG12	1.96	0.46
46:MJ:294:PHE:HE2	46:MJ:333:VAL:HG11	1.81	0.46
45:MM:187:SER:O	45:MM:191:THR:HG23	2.15	0.46
45:MM:205:ASP:OD1	45:MM:206:ASN:N	2.49	0.46
46:NB:117:LEU:HA	46:NB:120:VAL:HG12	1.97	0.46
46:NB:344:TRP:CD1	46:NB:345:ILE:HG12	2.51	0.46
46:ND:318:ARG:HB2	46:ND:364:ALA:HB3	1.98	0.46
45:NG:11:GLN:HG3	45:NG:74:VAL:HG11	1.97	0.46
45:NI:258:ASN:ND2	45:NI:352:LYS:HE2	2.30	0.46
45:NK:11:GLN:HG3	45:NK:74:VAL:HG11	1.97	0.46
46:OB:249:ASP:OD1	46:OB:252:LYS:N	2.46	0.46
46:OH:65:LEU:HD22	46:OH:90:PHE:CE1	2.50	0.46
46:OH:180:VAL:O	46:OH:180:VAL:HG12	2.15	0.46
46:OL:19:LYS:HG3	46:OL:226:ASN:HB3	1.98	0.46
45:OM:210:TYR:HD1	46:ON:324:LYS:HE3	1.80	0.46
45:PA:210:TYR:HE1	45:PA:227:LEU:HD11	1.81	0.46
45:PC:326:LYS:HZ1	46:PF:219:THR:HG23	1.81	0.46
45:PE:119:LEU:HG	45:PE:156:ARG:HH21	1.80	0.46
45:PG:98:ASP:OD1	45:PG:99:ALA:N	2.48	0.46
45:PG:346:TRP:CD1	46:PJ:391:ARG:HG3	2.50	0.46
45:PI:352:LYS:HZ3	46:PL:178:THR:HA	1.80	0.46
45:QA:211:ASP:HA	45:QA:214:ARG:HG3	1.98	0.46
46:QB:186:THR:HA	46:QB:189:VAL:HG12	1.96	0.46
46:QB:331:LEU:O	46:QB:334:GLN:HG2	2.16	0.46
45:QC:287:SER:HB3	45:QC:290:GLU:OE1	2.16	0.46
46:QF:258:ILE:HG13	46:QF:258:ILE:O	2.16	0.46
46:QH:318:ARG:HB3	46:QH:357:PRO:HA	1.97	0.46
45:QI:124:LYS:NZ	45:RI:290:GLU:OE1	2.34	0.46
46:QL:327:ASP:OD1	46:QL:328:GLU:N	2.48	0.46
45:QM:19:ALA:O	45:QM:22:GLU:HG3	2.16	0.46
45:RA:60:LYS:HD3	45:SA:283:HIS:CG	2.51	0.46
46:RB:131:GLN:NE2	45:RC:97:GLU:OE1	2.42	0.46
46:RB:260:PHE:HB2	46:RB:263:LEU:HD13	1.97	0.46
45:RG:82:THR:HA	45:RG:84:ARG:HH12	1.81	0.46
45:RG:252:ILE:HD12	45:RG:252:ILE:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RG:302:MET:HE2	45:RG:302:MET:HB3	1.77	0.46
46:RH:9:GLY:HA2	46:RH:66:MET:O	2.15	0.46
46:RJ:5:VAL:HG11	46:RJ:123:GLU:HG3	1.96	0.46
46:RJ:288:GLU:O	46:RJ:291:GLN:HG3	2.15	0.46
46:SB:314:SER:HA	46:SB:350:LYS:O	2.15	0.46
46:SD:16:ILE:HD12	46:SD:229:VAL:HG21	1.97	0.46
46:SD:97:ALA:HB3	46:SD:143:THR:HB	1.98	0.46
46:SD:325:GLU:HA	46:SD:328:GLU:OE2	2.16	0.46
45:SE:133:GLN:HB3	45:SE:252:ILE:HD11	1.97	0.46
45:SG:214:ARG:NH2	45:SG:222:PRO:HD3	2.30	0.46
46:SH:380:ARG:O	46:SH:384:GLN:HG2	2.16	0.46
46:SJ:91:VAL:HG21	46:SJ:116:VAL:HB	1.98	0.46
46:SJ:165:GLU:HG2	46:SJ:250:LEU:HD11	1.98	0.46
46:SJ:334:GLN:HA	46:SJ:341:PHE:HE1	1.81	0.46
45:SK:253:THR:HA	45:SK:256:GLN:NE2	2.31	0.46
45:SK:288:VAL:HA	45:SK:291:ILE:HG12	1.97	0.46
46:SL:324:LYS:O	46:SL:325:GLU:C	2.54	0.46
46:SL:407:GLU:HA	46:SL:410:GLU:CD	2.36	0.46
45:SM:101:ASN:HA	45:SM:144:GLY:H	1.81	0.46
45:TA:387:VAL:HA	45:TA:390:ARG:HG2	1.98	0.46
46:TB:288:GLU:O	46:TB:291:GLN:NE2	2.49	0.46
45:TE:338:LYS:HG3	45:TE:340:THR:HG22	1.98	0.46
45:TG:141:VAL:HG12	45:TG:171:ILE:O	2.16	0.46
46:TJ:86:ARG:HE	46:UJ:282:ARG:HH12	1.62	0.46
45:TK:79:ARG:O	45:TK:84:ARG:HG3	2.15	0.46
45:TK:338:LYS:HG3	45:TK:340:THR:H	1.80	0.46
46:TL:32:PRO:HB3	46:TL:81:PHE:HD1	1.80	0.46
45:TM:226:ASN:O	45:TM:230:LEU:HD23	2.16	0.46
45:UC:298:PRO:HA	45:UC:301:MET:HE1	1.98	0.46
46:UD:19:LYS:O	46:UD:22:GLU:HG3	2.15	0.46
45:UE:121:ARG:NE	45:UE:121:ARG:HA	2.30	0.46
45:UE:318:MET:O	45:UE:375:VAL:HA	2.16	0.46
45:UE:358:GLN:OE1	45:UE:359:PRO:HD2	2.15	0.46
46:UF:391:ARG:HD2	46:UF:391:ARG:HA	1.70	0.46
45:UG:141:VAL:HG22	45:UG:187:SER:HA	1.98	0.46
45:UI:5:ILE:HD13	45:UI:135:PHE:HE1	1.80	0.46
45:UI:329:ASN:HA	45:UI:332:ILE:HG22	1.97	0.46
46:UL:16:ILE:HD13	46:UL:226:ASN:OD1	2.16	0.46
45:UM:53:PHE:HE1	45:UM:63:PRO:HG3	1.81	0.46
45:UM:186:ASN:OD1	45:UM:187:SER:N	2.48	0.46
45:UM:268:MET:HG3	45:UM:380:ASN:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:87:PRO:HD2	46:VN:281:TYR:CE1	2.46	0.46
45:VA:107:HIS:ND1	45:VA:107:HIS:O	2.49	0.46
46:VB:3:GLU:OE2	46:VB:128:ASP:N	2.47	0.46
45:VC:10:GLY:O	45:VC:14:ILE:HG12	2.16	0.46
45:VE:251:ASP:HB3	45:VE:254:GLU:OE1	2.15	0.46
45:VE:288:VAL:HA	45:VE:291:ILE:HG12	1.98	0.46
45:VG:413:MET:HB3	45:VG:417:GLU:OE2	2.15	0.46
45:VI:350:GLY:HA2	46:VL:179:VAL:HG12	1.97	0.46
46:VJ:31:ASP:HB2	46:VJ:32:PRO:HD2	1.98	0.46
45:VM:71:GLU:OE2	46:VN:2:ARG:NH1	2.49	0.46
45:VM:171:ILE:HG23	45:VM:204:LEU:O	2.15	0.46
45:VM:292:THR:HG21	45:VM:331:SER:HB3	1.98	0.46
46:VN:102:ALA:HB1	46:VN:403:MET:HE1	1.97	0.46
46:WB:7:ILE:HG13	46:WB:64:ILE:HD13	1.98	0.46
46:WH:1:MET:HG3	46:WH:2:ARG:H	1.81	0.46
46:WH:201:VAL:HG13	46:WH:301:CYS:SG	2.56	0.46
45:WK:196:GLU:HG2	45:WK:197:HIS:ND1	2.31	0.46
46:WN:253:LEU:O	46:WN:257:LEU:HB2	2.16	0.46
45:CE:184:PRO:O	45:CE:188:ILE:HG12	2.15	0.46
6:0F:140:VAL:HG11	45:FC:79:ARG:HD2	1.97	0.46
3:1C:96:LYS:HZ1	45:EM:364:PRO:HB3	1.80	0.46
20:1K:183:TYR:HA	46:GD:362:LYS:HE2	1.97	0.46
20:1K:249:GLU:HG3	46:GB:276:ARG:NH2	2.30	0.46
14:1V:72:GLY:HA2	46:MJ:340:TYR:CE1	2.50	0.46
15:1X:49:ILE:HD11	45:ME:282:TYR:CG	2.51	0.46
1:2A:104:ARG:HH21	34:5R:59:MET:HA	1.79	0.46
27:2C:222:ILE:O	45:KI:221:ARG:NH2	2.48	0.46
20:2K:433:LEU:HD11	45:GE:281:ALA:HB3	1.95	0.46
25:2R:315:GLN:HA	46:CH:276:ARG:HH21	1.80	0.46
13:2U:449:ARG:HH22	45:VI:84:ARG:NH1	2.12	0.46
15:4X:117:SER:O	15:4X:120:GLU:HG3	2.15	0.46
36:5B:29:GLN:C	36:5B:30:LYS:HD3	2.36	0.46
37:5F:9:TYR:O	37:5F:14:ARG:NH1	2.44	0.46
37:5F:213:TYR:O	46:LJ:390:ARG:NH1	2.45	0.46
37:5H:22:LYS:HG3	37:5H:23:ASP:N	2.29	0.46
37:5H:110:ARG:HD3	37:5H:112:ALA:N	2.28	0.46
34:5R:259:ASN:HB3	34:5R:350:PHE:CZ	2.51	0.46
45:AA:283:HIS:HD1	45:MA:88:HIS:HA	1.80	0.46
46:AD:178:THR:HG22	46:AD:180:VAL:H	1.79	0.46
45:AG:171:ILE:HG23	45:AG:204:LEU:O	2.15	0.46
46:AL:146:GLY:O	46:AL:149:THR:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AL:372:THR:HA	46:AL:422:TYR:CE2	2.47	0.46
45:BA:426:ALA:HB1	45:BA:430:LYS:HZ1	1.81	0.46
45:BE:174:SER:HB2	45:BE:177:VAL:O	2.16	0.46
46:BF:226:ASN:HA	46:BF:229:VAL:HG12	1.98	0.46
46:BF:321:MET:HB2	46:BF:325:GLU:OE2	2.16	0.46
45:BI:224:TYR:HE1	47:BI:501:GTP:C5	2.34	0.46
45:BI:224:TYR:CD1	47:BI:501:GTP:C6	3.04	0.46
46:BJ:207:LEU:HB3	46:BJ:225:LEU:HD22	1.98	0.46
45:BK:317:MET:SD	45:BK:377:MET:HG2	2.55	0.46
45:BK:422:ARG:HG3	45:BK:422:ARG:HH11	1.80	0.46
46:BL:86:ARG:HB2	46:BL:89:ASN:OD1	2.16	0.46
46:BL:117:LEU:HA	46:BL:120:VAL:HG12	1.97	0.46
45:BM:36:MET:SD	45:BM:37:PRO:HD2	2.56	0.46
45:CA:387:VAL:HA	45:CA:390:ARG:HG2	1.98	0.46
46:CB:8:GLN:NE2	46:CB:14:ASN:OD1	2.49	0.46
46:CH:6:HIS:O	46:CH:63:ALA:HA	2.16	0.46
46:CL:344:TRP:HB3	46:CL:430:ALA:HB2	1.97	0.46
45:CM:73:THR:O	45:CM:77:GLU:HG2	2.16	0.46
46:DF:65:LEU:HD22	46:DF:90:PHE:HE1	1.80	0.46
46:DJ:21:TRP:CZ3	46:DJ:61:PRO:HB3	2.50	0.46
46:DJ:237:THR:HG23	46:DJ:241:ARG:HH21	1.80	0.46
46:DL:248:SER:HB2	46:DL:252:LYS:HG2	1.97	0.46
45:EA:288:VAL:HA	45:EA:291:ILE:HG12	1.96	0.46
45:EC:92:LEU:HD12	45:EC:92:LEU:O	2.16	0.46
46:ED:380:ARG:O	46:ED:383:GLU:HG2	2.16	0.46
46:EF:324:LYS:O	46:EF:325:GLU:C	2.54	0.46
46:EH:183:TYR:HA	46:EH:385:PHE:CE1	2.50	0.46
45:EK:296:PHE:HE2	45:EK:335:ILE:HD12	1.81	0.46
46:FD:376:GLU:O	46:FD:380:ARG:HG2	2.16	0.46
45:FE:102:ASN:HD21	45:FE:411:GLU:HG3	1.81	0.46
45:FE:301:MET:HA	45:FE:301:MET:HE3	1.97	0.46
46:FF:156:ARG:HH21	46:FF:164:MET:HB2	1.80	0.46
46:FF:284:LEU:HD21	46:FF:363:MET:H	1.80	0.46
46:FF:377:MET:HE3	46:FF:377:MET:HA	1.98	0.46
46:FH:292:GLN:HG2	46:FH:298:ASN:ND2	2.31	0.46
45:FI:407:TRP:HE1	46:FJ:258:ILE:HG13	1.81	0.46
45:FK:187:SER:O	45:FK:191:THR:HG23	2.16	0.46
45:GA:319:TYR:HA	45:GA:374:ALA:O	2.16	0.46
46:GD:36:TYR:CE2	46:GD:44:LEU:HG	2.51	0.46
46:GD:318:ARG:HB2	46:GD:364:ALA:HB3	1.98	0.46
46:GF:221:THR:HG23	46:GF:223:GLY:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:90:GLU:HG2	45:HK:280:LYS:NZ	2.31	0.46
46:GL:209:ASP:OD1	46:GL:213:ARG:NH2	2.49	0.46
46:GN:31:ASP:OD2	46:GN:37:HIS:ND1	2.48	0.46
46:GN:202:ILE:HD12	46:GN:300:MET:HG2	1.97	0.46
46:HD:257:LEU:HD23	46:HD:266:PHE:CE2	2.51	0.46
46:HD:418:LEU:O	46:HD:422:TYR:HB2	2.16	0.46
45:HE:213:CYS:SG	45:HE:219:ILE:HB	2.55	0.46
45:HG:257:THR:HG22	46:HJ:397:TRP:CH2	2.51	0.46
46:HJ:374:ILE:HG22	46:HJ:422:TYR:CE2	2.51	0.46
45:HK:71:GLU:HB2	46:HL:2:ARG:HH12	1.80	0.46
45:HK:209:ILE:HG23	45:HK:227:LEU:HD22	1.98	0.46
45:HK:319:TYR:HE2	45:HK:328:VAL:HG22	1.81	0.46
46:HN:233:MET:O	46:HN:236:VAL:HG22	2.16	0.46
46:IB:226:ASN:HD21	49:IB:501:GDP:HN1	1.62	0.46
45:IE:331:SER:O	45:IE:335:ILE:HG12	2.16	0.46
45:IG:75:ILE:O	45:IG:79:ARG:HG3	2.16	0.46
45:IG:152:LEU:O	45:IG:155:GLU:HG3	2.15	0.46
45:IG:216:ASN:HB3	45:IG:275:ILE:O	2.16	0.46
45:II:345:ASP:OD1	45:II:346:TRP:N	2.49	0.46
46:IJ:72:THR:O	46:IJ:75:SER:OG	2.26	0.46
46:IJ:405:GLU:HA	46:IJ:408:PHE:HD1	1.81	0.46
46:IL:221:THR:HG23	46:IL:224:ASP:H	1.79	0.46
45:IM:47:ASP:OD2	45:IM:50:ASN:ND2	2.48	0.46
46:JB:268:ILE:N	46:JB:299:MET:HE1	2.31	0.46
45:JG:21:TRP:CZ2	45:JG:65:ALA:HB2	2.50	0.46
46:JH:68:LEU:HD12	46:JH:97:ALA:HB2	1.98	0.46
45:JK:377:MET:HE3	45:JK:378:ILE:H	1.80	0.46
46:JL:36:TYR:CZ	46:JL:38:GLY:HA3	2.51	0.46
46:JL:65:LEU:HD22	46:JL:90:PHE:CE1	2.51	0.46
46:JL:74:ASP:HA	46:JL:77:ARG:NE	2.30	0.46
46:JN:32:PRO:HA	46:JN:84:LEU:HD11	1.97	0.46
46:JN:250:LEU:HD23	46:JN:250:LEU:HA	1.79	0.46
46:KB:167:PHE:CE2	46:KB:233:MET:HG2	2.51	0.46
46:KF:12:CYS:O	46:KF:16:ILE:HG12	2.15	0.46
45:KG:35:GLN:N	45:KG:35:GLN:OE1	2.49	0.46
45:KG:262:TYR:HB2	45:KG:265:ILE:HG12	1.98	0.46
45:KI:280:LYS:HD3	45:KI:280:LYS:HA	1.74	0.46
46:KN:418:LEU:HA	46:KN:421:GLU:OE1	2.16	0.46
46:LB:321:MET:N	46:LB:321:MET:SD	2.89	0.46
45:LE:222:PRO:HG2	46:LF:324:LYS:HE3	1.98	0.46
46:LH:293:MET:SD	46:LH:367:PHE:HB2	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LN:210:ILE:O	46:LN:214:THR:OG1	2.18	0.46
46:MB:202:ILE:HD11	46:MB:268:ILE:HD11	1.98	0.46
46:MD:99:ASN:HA	46:MD:142:GLY:H	1.80	0.46
46:MD:190:HIS:CD2	46:MD:414:ASN:HD22	2.34	0.46
46:MH:5:VAL:HA	46:MH:62:ARG:HD3	1.97	0.46
46:MH:257:LEU:HD21	46:MH:314:SER:HB2	1.98	0.46
46:ND:164:MET:HE3	46:ND:196:ALA:HA	1.97	0.46
46:ND:262:ARG:NH1	46:ND:421:GLU:OE2	2.49	0.46
45:NG:10:GLY:O	45:NG:14:ILE:HG12	2.15	0.46
45:NG:221:ARG:HA	46:NH:324:LYS:HZ1	1.81	0.46
45:NG:345:ASP:OD1	45:NG:346:TRP:N	2.49	0.46
45:NI:132:LEU:HG	45:NI:164:LYS:HZ1	1.81	0.46
45:NK:352:LYS:HD2	45:NK:353:VAL:H	1.80	0.46
46:NL:238:CYS:HB2	46:NL:318:ARG:HH11	1.79	0.46
45:NM:174:SER:HB2	45:NM:177:VAL:O	2.16	0.46
46:NN:116:VAL:HA	46:NN:119:VAL:HG12	1.98	0.46
46:NN:248:SER:HA	46:NN:252:LYS:HD2	1.97	0.46
45:OA:183:GLU:N	45:OA:184:PRO:HD2	2.31	0.46
46:OB:3:GLU:OE2	46:OB:62:ARG:HD2	2.16	0.46
46:OF:20:PHE:HA	46:OF:230:SER:HB2	1.97	0.46
46:OF:58:ARG:NH2	46:OF:84:LEU:HA	2.31	0.46
45:OG:326:LYS:HE3	45:OG:326:LYS:HB3	1.74	0.46
46:OH:99:ASN:HA	46:OH:142:GLY:HA3	1.97	0.46
45:OI:3:GLU:HG2	45:OI:132:LEU:HA	1.98	0.46
45:OI:107:HIS:ND1	45:OI:107:HIS:O	2.48	0.46
45:OK:414:GLU:CD	45:OK:416:GLY:H	2.19	0.46
45:OM:107:HIS:O	45:OM:107:HIS:ND1	2.49	0.46
46:ON:213:ARG:NH2	46:ON:297:LYS:HB3	2.31	0.46
46:PB:105:HIS:CE1	46:PB:150:LEU:HD12	2.50	0.46
45:PC:18:ASN:O	45:PC:22:GLU:HG2	2.15	0.46
45:PC:88:HIS:CG	45:QC:280:LYS:HE2	2.51	0.46
45:PE:107:HIS:HA	45:PE:152:LEU:HD11	1.98	0.46
46:PF:55:THR:HG23	46:QD:283:ALA:HA	1.98	0.46
45:PG:326:LYS:NZ	46:PJ:220:PRO:HD2	2.30	0.46
45:PG:352:LYS:HE2	46:PJ:179:VAL:HG13	1.98	0.46
45:PK:8:HIS:HB2	45:PK:67:PHE:CD2	2.50	0.46
46:PL:39:ASP:OD1	46:PL:40:SER:N	2.49	0.46
45:PM:399:TYR:O	45:PM:402:ARG:NH1	2.49	0.46
46:PN:12:CYS:O	46:PN:16:ILE:HG12	2.15	0.46
46:PN:194:GLU:HG3	46:PN:262:ARG:HH22	1.80	0.46
45:QA:76:ASP:OD1	45:QA:79:ARG:NH2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:282:ARG:NH2	46:QB:292:GLN:OE1	2.47	0.46
45:QC:102:ASN:HB3	45:QC:105:ARG:HG3	1.97	0.46
46:QD:310:TYR:CD2	46:QD:371:SER:HB2	2.51	0.46
46:QF:3:GLU:HG3	46:QF:49:VAL:HA	1.96	0.46
46:QF:8:GLN:HE21	46:QF:65:LEU:CD2	2.29	0.46
46:QL:181:GLU:HB3	46:QL:182:PRO:HD3	1.98	0.46
46:QL:216:LYS:HG2	46:QL:216:LYS:O	2.15	0.46
46:QN:65:LEU:HD22	46:QN:90:PHE:CE1	2.51	0.46
46:RB:257:LEU:HD21	46:RB:314:SER:HB3	1.98	0.46
45:RE:328:VAL:O	45:RE:332:ILE:HG23	2.16	0.46
46:RH:193:VAL:HG21	46:RH:418:LEU:HD22	1.97	0.46
45:RK:155:GLU:HG3	45:RK:197:HIS:CD2	2.49	0.46
46:RL:167:PHE:HE2	46:RL:200:MET:SD	2.38	0.46
45:RM:54:SER:OG	45:RM:64:ARG:HD3	2.15	0.46
45:SC:60:LYS:HE2	45:TC:283:HIS:CD2	2.51	0.46
45:SE:260:VAL:HG23	46:SF:397:TRP:HZ2	1.80	0.46
45:SG:187:SER:O	45:SG:191:THR:HG23	2.16	0.46
45:SI:115:VAL:HG22	45:SI:119:LEU:HD23	1.98	0.46
46:SL:132:GLY:HA3	46:SL:163:ILE:HG13	1.97	0.46
45:SM:384:ILE:HG23	45:SM:388:PHE:HE1	1.81	0.46
46:SN:288:GLU:O	46:SN:291:GLN:HG3	2.16	0.46
46:SN:293:MET:HE2	46:SN:367:PHE:HB2	1.97	0.46
45:TC:272:TYR:HD2	45:TC:275:ILE:HD11	1.81	0.46
46:TF:51:TYR:O	46:TF:62:ARG:NH2	2.46	0.46
45:TI:231:ILE:O	45:TI:235:ILE:HG12	2.16	0.46
46:TL:269:GLY:HA2	46:TL:300:MET:HE1	1.98	0.46
46:TL:347:ASN:ND2	45:TM:176:GLN:O	2.42	0.46
46:TN:288:GLU:O	46:TN:291:GLN:HG3	2.16	0.46
45:UC:280:LYS:HZ3	45:UC:283:HIS:CB	2.23	0.46
46:UD:117:LEU:HA	46:UD:120:VAL:HG12	1.97	0.46
46:UD:252:LYS:HZ1	47:UE:501:GTP:PG	2.36	0.46
46:UD:341:PHE:HD2	46:UD:348:ASN:HD21	1.63	0.46
45:UE:204:LEU:HD12	45:UE:231:ILE:HD12	1.98	0.46
46:UF:287:PRO:HG3	46:UF:329:GLN:NE2	2.31	0.46
45:UG:115:VAL:HG11	45:UG:152:LEU:HD23	1.98	0.46
45:UG:263:PRO:HG2	45:UG:264:ARG:HH12	1.81	0.46
46:UJ:372:THR:HA	46:UJ:422:TYR:CE2	2.40	0.46
45:UK:297:GLU:HG2	45:UK:298:PRO:HD2	1.97	0.46
45:UK:352:LYS:HZ1	46:UL:179:VAL:N	2.11	0.46
46:UL:58:ARG:NH2	46:VL:281:TYR:OH	2.48	0.46
46:UN:68:LEU:HG	46:UN:96:GLY:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:119:VAL:HG23	46:UN:122:LYS:NZ	2.30	0.46
46:UN:378:PHE:HA	46:UN:381:VAL:HG22	1.98	0.46
45:VA:226:ASN:HA	45:VA:229:ARG:HD2	1.97	0.46
45:VC:56:THR:HG23	45:VC:58:ALA:H	1.81	0.46
46:VF:3:GLU:HG2	46:VF:49:VAL:HA	1.98	0.46
46:VF:178:THR:HB	46:VF:181:GLU:HG2	1.98	0.46
46:VF:320:ARG:NH2	46:VF:321:MET:HA	2.31	0.46
45:VG:251:ASP:HB3	45:VG:254:GLU:OE1	2.16	0.46
45:VG:387:VAL:O	45:VG:390:ARG:HG2	2.15	0.46
46:VH:232:ALA:HB1	46:VH:268:ILE:HD12	1.98	0.46
46:VH:286:VAL:HG21	46:VH:325:GLU:CG	2.46	0.46
46:VN:178:THR:HB	46:VN:181:GLU:OE2	2.15	0.46
46:VN:415:MET:O	46:VN:419:VAL:HG23	2.16	0.46
46:WD:9:GLY:HA2	46:WD:66:MET:O	2.16	0.46
46:WD:317:PHE:HE1	46:WD:326:VAL:HG13	1.80	0.46
46:WF:201:VAL:HG23	46:WF:301:CYS:SG	2.56	0.46
46:WH:67:ASP:O	46:WH:92:PHE:HA	2.16	0.46
46:WL:286:VAL:HA	46:WL:289:LEU:HB2	1.98	0.46
45:CE:230:LEU:O	45:CE:234:VAL:HG23	2.15	0.46
45:DC:215:ARG:NH2	45:DC:299:ALA:O	2.49	0.46
1:0A:134:LYS:O	46:AB:320:ARG:NH2	2.48	0.46
6:0F:204:PHE:O	45:FC:221:ARG:HB2	2.16	0.46
8:1H:352:GLU:HG2	45:GA:58:ALA:HB2	1.97	0.46
28:2F:77:THR:OG1	46:HF:291:GLN:OE1	2.34	0.46
15:4X:57:LYS:HA	15:4X:57:LYS:HE2	1.98	0.46
36:5A:104:PRO:HB3	45:KA:390:ARG:HD3	1.97	0.46
34:5R:549:MET:O	34:5R:553:ILE:HG12	2.16	0.46
34:5R:557:ASP:OD2	34:5R:561:ARG:N	2.44	0.46
35:5S:78:VAL:HG13	35:5S:79:ASN:H	1.81	0.46
39:6F:45:LYS:HG3	39:6F:46:PHE:CD2	2.51	0.46
39:6F:123:TYR:HA	39:6F:126:LYS:HB3	1.98	0.46
10:6Q:71:ILE:HG23	10:6Q:73:LEU:HD13	1.97	0.46
34:6R:227:GLU:HA	34:6R:230:GLU:HG3	1.98	0.46
34:7R:12:LEU:HD12	34:7R:15:HIS:CD2	2.51	0.46
45:AC:141:VAL:HG12	45:AC:171:ILE:O	2.16	0.46
45:AC:176:GLN:NE2	45:AC:177:VAL:HG23	2.31	0.46
46:AD:103:LYS:HB2	46:AD:401:GLU:OE1	2.16	0.46
46:AF:65:LEU:HD13	46:AF:90:PHE:HE1	1.81	0.46
45:AG:265:ILE:HG22	45:AG:380:ASN:HD21	1.81	0.46
46:AH:11:GLN:HB3	46:AH:72:THR:HG21	1.97	0.46
46:AH:203:ASP:O	46:AH:207:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AJ:226:ASN:HD21	49:AJ:501:GDP:HN1	1.64	0.46
46:BH:20:PHE:HA	46:BH:230:SER:HB2	1.97	0.46
45:BI:325:PRO:HA	45:BI:328:VAL:HG12	1.98	0.46
45:BI:402:ARG:NH2	45:BI:415:GLU:OE2	2.48	0.46
46:BL:342:VAL:HG13	46:BL:345:ILE:HG22	1.97	0.46
46:CB:258:ILE:HG23	46:CB:263:LEU:O	2.16	0.46
45:CC:18:ASN:O	45:CC:22:GLU:OE1	2.34	0.46
45:CC:356:ASN:OD1	45:CC:357:TYR:N	2.49	0.46
46:CD:205:GLU:OE2	46:CD:302:ALA:HB2	2.16	0.46
46:CJ:260:PHE:HB2	46:CJ:263:LEU:HD13	1.98	0.46
46:CL:65:LEU:HD22	46:CL:90:PHE:CE1	2.51	0.46
46:CL:173:PRO:HG3	46:CL:384:GLN:NE2	2.31	0.46
45:CM:430:LYS:HA	45:CM:433:GLU:CD	2.36	0.46
46:CN:97:ALA:HB3	46:CN:143:THR:HB	1.97	0.46
46:DF:99:ASN:ND2	46:DF:178:THR:HG21	2.31	0.46
45:DG:261:PRO:HA	46:DH:394:PHE:CD1	2.51	0.46
45:DI:21:TRP:CZ3	45:DI:63:PRO:HB3	2.51	0.46
45:DI:254:GLU:HG2	46:DJ:98:GLY:HA2	1.97	0.46
46:DL:141:GLY:HA3	49:DL:501:GDP:PB	2.56	0.46
45:DM:141:VAL:HG12	45:DM:187:SER:HA	1.96	0.46
46:EB:312:THR:HG22	46:EB:370:ASN:HB3	1.97	0.46
46:ED:204:ASN:OD1	49:ED:501:GDP:O2'	2.27	0.46
46:EH:55:THR:HG23	46:FH:283:ALA:HA	1.97	0.46
45:EI:171:ILE:HG13	45:EI:204:LEU:HB2	1.98	0.46
46:EJ:207:LEU:HD13	46:EJ:225:LEU:HB3	1.97	0.46
46:EJ:251:ARG:HD3	45:EK:105:ARG:NH1	2.30	0.46
45:EK:170:THR:HG1	45:EK:172:TYR:HE1	1.62	0.46
46:FD:91:VAL:HG11	46:FD:116:VAL:HB	1.98	0.46
45:FE:226:ASN:ND2	45:FE:367:ASP:OD2	2.49	0.46
45:FI:384:ILE:O	45:FI:387:VAL:HG22	2.15	0.46
46:FJ:113:ILE:HG21	46:FJ:154:LYS:HZ3	1.81	0.46
45:FK:195:LEU:HD21	45:FK:264:ARG:HD2	1.97	0.46
45:FK:302:MET:HE2	45:FK:302:MET:HB3	1.63	0.46
45:FK:387:VAL:HA	45:FK:390:ARG:HG2	1.98	0.46
46:FL:69:GLU:CD	46:FL:71:GLY:H	2.19	0.46
45:GG:107:HIS:ND1	45:GG:107:HIS:O	2.49	0.46
46:GH:86:ARG:HG3	46:GH:88:ASP:H	1.81	0.46
45:HA:203:MET:SD	45:HA:267:PHE:HB3	2.56	0.46
45:HC:251:ASP:HB3	45:HC:254:GLU:HG2	1.98	0.46
46:HF:273:LEU:H	46:HF:292:GLN:NE2	2.14	0.46
45:HG:72:PRO:HD2	46:HH:2:ARG:HH21	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HI:268:MET:HG3	45:HI:380:ASN:HB2	1.97	0.46
45:HK:105:ARG:HG2	45:HK:411:GLU:OE1	2.16	0.46
46:HL:12:CYS:O	46:HL:16:ILE:HG12	2.16	0.46
46:HL:109:GLY:HA2	46:HL:147:MET:CE	2.44	0.46
45:HM:186:ASN:OD1	45:HM:187:SER:N	2.49	0.46
45:HM:217:LEU:HD21	45:HM:368:LEU:HD22	1.97	0.46
46:IL:257:LEU:HD23	46:IL:266:PHE:CE1	2.51	0.46
45:JE:181:VAL:HG23	46:JF:350:LYS:HE2	1.97	0.46
45:JK:68:LEU:HD13	45:JK:93:ILE:HB	1.96	0.46
45:KA:133:GLN:HB3	45:KA:252:ILE:HD11	1.98	0.46
45:KC:4:VAL:HG12	45:KC:133:GLN:HB2	1.98	0.46
45:KC:426:ALA:HA	45:KC:429:GLU:OE2	2.16	0.46
45:KI:56:THR:HG23	45:KI:58:ALA:H	1.81	0.46
45:KK:17:GLY:HA2	45:KK:20:CYS:SG	2.56	0.46
45:LA:338:LYS:HZ2	45:LA:339:ARG:H	1.62	0.46
45:LI:305:CYS:SG	45:LI:306:ASP:N	2.89	0.46
45:LK:224:TYR:HE2	46:LL:246:LEU:HD11	1.80	0.46
46:LL:156:ARG:HG3	46:LL:195:ASN:HB3	1.98	0.46
45:LM:329:ASN:HA	45:LM:332:ILE:HG12	1.98	0.46
45:LM:345:ASP:OD2	45:LM:346:TRP:N	2.49	0.46
46:MB:21:TRP:HA	46:MB:24:ILE:HG22	1.98	0.46
46:MD:391:ARG:HA	46:MD:391:ARG:HD2	1.79	0.46
45:ME:141:VAL:HG12	45:ME:171:ILE:O	2.16	0.46
46:MJ:187:LEU:HD11	46:MJ:408:PHE:CE1	2.50	0.46
45:MK:6:SER:OG	45:MK:8:HIS:NE2	2.48	0.46
45:NA:167:LEU:HG	45:NA:200:VAL:HB	1.97	0.46
46:NB:119:VAL:HA	46:NB:122:LYS:CE	2.43	0.46
46:NB:119:VAL:O	46:NB:123:GLU:HG2	2.16	0.46
46:ND:371:SER:O	46:ND:422:TYR:OH	2.34	0.46
45:NE:242:LEU:HD11	45:NE:252:ILE:HD11	1.98	0.46
45:NE:268:MET:HG3	45:NE:380:ASN:HB2	1.98	0.46
45:NE:276:ILE:HG13	45:NE:283:HIS:CE1	2.50	0.46
46:NH:187:LEU:HD11	46:NH:408:PHE:HE2	1.81	0.46
46:NH:221:THR:O	46:NH:225:LEU:HD12	2.16	0.46
46:NL:200:MET:SD	46:NL:268:ILE:HG21	2.56	0.46
46:NN:391:ARG:HA	46:NN:391:ARG:HD2	1.82	0.46
45:OA:227:LEU:O	45:OA:230:LEU:HG	2.16	0.46
45:OE:68:LEU:HD13	45:OE:93:ILE:HB	1.97	0.46
45:OG:257:THR:HA	46:OJ:397:TRP:CH2	2.51	0.46
45:OG:307:PRO:HB3	45:OG:312:TYR:HE1	1.81	0.46
46:OH:310:TYR:HE2	46:OH:367:PHE:HZ	1.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OI:154:LEU:HD12	45:OI:194:LEU:HD11	1.98	0.46
45:OI:211:ASP:OD1	45:OI:214:ARG:NH2	2.43	0.46
46:OJ:201:VAL:HG23	46:OJ:301:CYS:SG	2.56	0.46
45:OK:88:HIS:CE1	45:PK:280:LYS:HE2	2.51	0.46
45:OK:140:SER:OG	47:OK:501:GTP:O2B	2.33	0.46
45:OK:326:LYS:HG3	46:ON:208:TYR:CD1	2.51	0.46
46:OL:218:THR:HG23	46:OL:276:ARG:NH2	2.30	0.46
46:OL:409:THR:O	46:OL:412:GLU:HG3	2.15	0.46
46:PB:232:ALA:HB1	46:PB:268:ILE:HD12	1.98	0.46
45:PC:60:LYS:NZ	45:PC:86:LEU:HA	2.30	0.46
46:PD:68:LEU:HG	46:PD:96:GLY:H	1.80	0.46
45:PI:98:ASP:OD1	45:PI:99:ALA:N	2.49	0.46
45:PK:183:GLU:N	45:PK:184:PRO:HD2	2.31	0.46
45:PM:319:TYR:HB3	45:PM:323:VAL:HG11	1.97	0.46
45:PM:407:TRP:CH2	46:PN:258:ILE:HB	2.51	0.46
45:QA:319:TYR:HB3	45:QA:323:VAL:HG11	1.98	0.46
45:QA:331:SER:O	45:QA:335:ILE:HG12	2.16	0.46
46:QB:420:SER:O	46:QB:423:GLN:HG3	2.16	0.46
45:QC:182:VAL:O	45:QC:182:VAL:HG12	2.15	0.46
46:QF:318:ARG:HH11	46:QF:358:PRO:HG3	1.81	0.46
45:QG:1:MET:HB3	45:QG:2:ARG:HH12	1.81	0.46
45:QG:272:TYR:O	45:QG:300:ASN:ND2	2.47	0.46
45:QG:324:VAL:HG11	45:QG:326:LYS:HE2	1.98	0.46
45:QI:311:LYS:NZ	45:QI:342:GLN:HB3	2.30	0.46
45:QI:384:ILE:O	45:QI:387:VAL:HG22	2.15	0.46
46:QL:317:PHE:CD1	46:QL:365:VAL:HG22	2.51	0.46
46:RB:50:TYR:OH	46:RB:237:THR:OG1	2.30	0.46
46:RJ:131:GLN:HE22	46:RJ:250:LEU:HB2	1.81	0.46
45:RK:269:LEU:HD23	45:RK:379:SER:O	2.16	0.46
46:RN:58:ARG:NH2	46:SN:281:TYR:OH	2.48	0.46
46:SB:15:GLN:HG2	49:SB:501:GDP:O6	2.16	0.46
46:SB:121:ARG:NH2	46:TB:336:LYS:HE3	2.30	0.46
46:SJ:139:LEU:HD22	46:SJ:170:VAL:HG12	1.97	0.46
45:SK:241:SER:OG	45:SK:250:VAL:O	2.20	0.46
46:SL:32:PRO:HA	46:SL:84:LEU:HD11	1.97	0.46
46:SL:282:ARG:HA	46:SL:282:ARG:NH1	2.31	0.46
46:SN:31:ASP:OD2	46:SN:37:HIS:ND1	2.49	0.46
46:TB:207:LEU:HB3	46:TB:225:LEU:HD22	1.98	0.46
46:TB:241:ARG:HH12	46:TB:318:ARG:HH12	1.64	0.46
46:TD:21:TRP:CZ3	46:TD:61:PRO:HB3	2.51	0.46
45:TE:137:VAL:HG23	45:TE:168:GLY:HA2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TE:150:GLY:O	45:TE:154:LEU:HG	2.15	0.46
45:TE:377:MET:HE2	45:TE:379:SER:HB3	1.98	0.46
45:TK:68:LEU:HD13	45:TK:93:ILE:HB	1.98	0.46
46:TL:256:ASN:HD22	46:TL:350:LYS:NZ	2.13	0.46
45:TM:425:LEU:HD23	45:TM:425:LEU:HA	1.80	0.46
46:UB:139:LEU:HD13	46:UB:168:SER:HB3	1.97	0.46
46:UB:190:HIS:NE2	46:UB:411:ALA:O	2.40	0.46
46:UD:6:HIS:HD2	46:UD:21:TRP:HE1	1.64	0.46
46:UD:304:ASP:HB3	46:UD:307:HIS:ND1	2.31	0.46
45:UE:384:ILE:O	45:UE:387:VAL:HG22	2.16	0.46
46:UF:54:ALA:HB3	46:UF:58:ARG:HG2	1.98	0.46
46:UF:64:ILE:HD13	46:UF:119:VAL:HG13	1.98	0.46
46:UH:99:ASN:HA	46:UH:142:GLY:H	1.80	0.46
46:UH:287:PRO:HA	46:UH:290:THR:HG22	1.98	0.46
46:UL:409:THR:O	46:UL:412:GLU:HG3	2.16	0.46
45:UM:78:VAL:HA	45:UM:84:ARG:NH2	2.31	0.46
45:VA:260:VAL:HG21	45:VA:266:HIS:HB3	1.96	0.46
46:VB:165:GLU:OE1	46:VB:198:GLU:HB2	2.15	0.46
46:VD:237:THR:HG23	46:VD:241:ARG:HH21	1.80	0.46
46:VD:350:LYS:HD3	46:VD:351:SER:N	2.30	0.46
46:VF:178:THR:HG22	46:VF:180:VAL:H	1.80	0.46
46:VF:309:ARG:HG2	46:VF:340:TYR:HA	1.98	0.46
45:VI:332:ILE:O	45:VI:336:LYS:HG2	2.15	0.46
46:VJ:94:GLN:OE1	46:VJ:94:GLN:HA	2.16	0.46
46:VJ:190:HIS:CD2	46:VJ:411:ALA:HA	2.51	0.46
46:VJ:203:ASP:OD2	46:VJ:377:MET:HE1	2.15	0.46
46:VN:16:ILE:HD12	46:VN:229:VAL:HG11	1.98	0.46
45:WA:340:THR:HG23	45:WA:341:ILE:HG13	1.96	0.46
45:WC:98:ASP:N	46:WD:2:ARG:HH21	2.12	0.46
45:WE:90:GLU:OE2	45:WE:121:ARG:NH1	2.49	0.46
46:WF:73:MET:CE	46:WF:92:PHE:HB3	2.46	0.46
45:WK:303:ALA:O	45:WK:305:CYS:N	2.46	0.46
45:DC:20:CYS:HA	45:DC:232:ALA:HB1	1.98	0.46
45:DC:21:TRP:CZ2	45:DC:65:ALA:HB2	2.50	0.46
45:DC:311:LYS:H	45:DC:382:THR:HB	1.80	0.46
45:DC:322:ASP:OD1	45:DC:373:ARG:NH1	2.45	0.46
7:1G:100:GLU:CD	46:JB:320:ARG:HH12	2.19	0.46
21:1L:179:THR:HG21	45:CI:365:GLY:HA3	1.98	0.46
21:2L:901:LYS:NZ	46:CJ:320:ARG:HH12	2.13	0.46
10:2Q:53:ASN:ND2	45:AE:396:ASP:HB2	2.31	0.46
14:3V:142:ILE:HD11	45:LC:402:ARG:HE	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5C:28:SER:HB3	36:5C:29:GLN:OE1	2.16	0.46
37:5G:197:LEU:HD12	45:LK:393:HIS:CG	2.51	0.46
10:5Q:7:GLN:O	10:5Q:7:GLN:HG2	2.16	0.46
10:5Q:35:LYS:HD3	10:5Q:37:ILE:HD11	1.98	0.46
34:5R:465:ILE:HB	46:FJ:276:ARG:CZ	2.45	0.46
35:5S:111:GLU:HG2	35:5S:116:TYR:CB	2.46	0.46
40:6G:214:LEU:HD11	45:VC:333:ALA:HB3	1.97	0.46
40:6G:226:GLY:C	45:UE:123:ARG:HH12	2.18	0.46
34:7R:426:PHE:HA	34:7R:508:ALA:HA	1.96	0.46
45:AA:209:ILE:HG12	45:AA:302:MET:CE	2.46	0.46
46:AD:1:MET:O	46:AD:2:ARG:HG2	2.15	0.46
46:AD:52:ASN:OD1	46:AD:62:ARG:NH2	2.49	0.46
45:AE:89:PRO:HG2	45:BE:280:LYS:HB3	1.98	0.46
45:AK:231:ILE:O	45:AK:235:ILE:HG12	2.16	0.46
45:BA:195:LEU:HD21	45:BA:264:ARG:HH21	1.80	0.46
45:BC:304:LYS:O	45:BC:304:LYS:HD3	2.16	0.46
46:BL:232:ALA:HB1	46:BL:268:ILE:HD12	1.97	0.46
46:BN:66:MET:HE3	46:BN:151:LEU:HD13	1.98	0.46
46:BN:308:GLY:HA2	46:BN:426:GLN:HE22	1.81	0.46
45:CA:171:ILE:HG23	45:CA:204:LEU:O	2.16	0.46
46:CD:201:VAL:HG21	46:CD:374:ILE:HD11	1.98	0.46
46:CH:87:PRO:HA	46:CH:90:PHE:CD2	2.43	0.46
46:CH:201:VAL:HG23	46:CH:301:CYS:SG	2.56	0.46
45:CK:154:LEU:HD12	45:CK:155:GLU:HG3	1.98	0.46
45:CK:296:PHE:HD1	45:CK:341:ILE:HD13	1.81	0.46
46:CL:173:PRO:HD2	46:CL:380:ARG:NH2	2.31	0.46
45:DA:203:MET:HG3	45:DA:384:ILE:HD11	1.98	0.46
46:DB:77:ARG:NH2	46:DB:83:GLN:OE1	2.48	0.46
46:DD:318:ARG:HH11	46:DD:358:PRO:HG3	1.81	0.46
45:DG:387:VAL:N	45:DG:390:ARG:HH21	2.14	0.46
45:DK:39:ASP:N	45:DK:39:ASP:OD1	2.48	0.46
46:DN:273:LEU:H	46:DN:292:GLN:NE2	2.07	0.46
45:EG:19:ALA:O	45:EG:22:GLU:HG2	2.16	0.46
45:EG:209:ILE:HD11	45:EG:227:LEU:HD23	1.98	0.46
45:EG:346:TRP:CD1	46:EH:391:ARG:HG3	2.51	0.46
46:EH:65:LEU:HD22	46:EH:90:PHE:CE1	2.51	0.46
45:EK:239:THR:HG23	45:EK:243:ARG:HH21	1.81	0.46
46:EL:119:VAL:HA	46:EL:122:LYS:HD3	1.97	0.46
45:EM:141:VAL:HG12	45:EM:171:ILE:O	2.16	0.46
45:EM:274:PRO:HG3	45:EM:286:LEU:HD23	1.97	0.46
45:FA:208:ALA:O	45:FA:212:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FA:221:ARG:HH11	46:FB:325:GLU:H	1.64	0.46
46:FF:190:HIS:CD2	46:FF:411:ALA:HA	2.51	0.46
45:FK:7:ILE:HB	45:FK:137:VAL:HG12	1.98	0.46
45:FK:84:ARG:HG3	45:FK:84:ARG:HH11	1.80	0.46
46:FL:216:LYS:HB3	46:FL:216:LYS:HE2	1.75	0.46
46:FL:263:LEU:HD23	46:FL:422:TYR:CE2	2.51	0.46
45:GA:19:ALA:HA	45:GA:22:GLU:OE1	2.16	0.46
45:GE:19:ALA:HA	45:GE:22:GLU:OE1	2.16	0.46
45:GE:55:GLU:O	45:HE:285:GLN:NE2	2.39	0.46
45:GE:317:MET:HE2	45:GE:332:ILE:HD11	1.97	0.46
45:GG:88:HIS:H	45:GG:91:GLN:NE2	2.14	0.46
46:GH:208:TYR:CE2	46:GH:225:LEU:HD21	2.51	0.46
45:GK:19:ALA:HA	45:GK:22:GLU:OE1	2.15	0.46
45:GM:206:ASN:OD1	47:GM:501:GTP:N2	2.49	0.46
46:GN:156:ARG:NH1	46:GN:162:ARG:O	2.48	0.46
46:GN:238:CYS:HB2	46:GN:318:ARG:NH1	2.30	0.46
46:GN:375:GLN:NE2	46:GN:422:TYR:HB3	2.31	0.46
45:HA:356:ASN:OD1	45:HA:358:GLN:N	2.44	0.46
46:HF:262:ARG:NH1	46:HF:421:GLU:OE1	2.48	0.46
46:HL:9:GLY:HA3	46:HL:66:MET:SD	2.55	0.46
46:HL:294:PHE:CE2	46:HL:333:VAL:HG11	2.51	0.46
45:HM:14:ILE:HD11	45:HM:69:ASP:HB2	1.98	0.46
45:HM:55:GLU:HG3	45:HM:57:GLY:H	1.80	0.46
46:HN:304:ASP:HB3	46:HN:307:HIS:ND1	2.31	0.46
45:IE:141:VAL:HG11	45:IE:172:TYR:CD1	2.51	0.46
46:IF:217:LEU:HD11	46:IF:220:PRO:HB3	1.97	0.46
45:IG:21:TRP:CZ2	45:IG:65:ALA:HB2	2.51	0.46
46:IJ:117:LEU:HA	46:IJ:120:VAL:HG12	1.98	0.46
46:IJ:201:VAL:HG23	46:IJ:301:CYS:SG	2.56	0.46
45:IK:205:ASP:OD1	45:IK:303:ALA:HA	2.15	0.46
45:JA:151:SER:HB2	45:JA:193:SER:OG	2.16	0.46
45:JA:226:ASN:ND2	45:JA:367:ASP:OD2	2.49	0.46
45:JA:297:GLU:HB2	45:JA:300:ASN:OD1	2.15	0.46
45:JA:338:LYS:HZ2	45:JA:339:ARG:H	1.62	0.46
46:JB:317:PHE:CD2	46:JB:365:VAL:HG22	2.51	0.46
46:JH:141:GLY:HA3	49:JH:501:GDP:O3A	2.17	0.46
45:JI:108:TYR:HA	45:JI:112:LYS:NZ	2.31	0.46
45:JI:387:VAL:HG12	45:JI:390:ARG:NH1	2.32	0.46
45:JK:185:TYR:HD2	45:JK:408:TYR:HE1	1.64	0.46
46:JL:208:TYR:CD2	46:JL:225:LEU:HD11	2.51	0.46
45:KA:75:ILE:HD13	45:KA:94:SER:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KJ:106:TYR:HE2	46:KJ:403:MET:HB3	1.81	0.46
46:KJ:207:LEU:HB3	46:KJ:225:LEU:HD22	1.98	0.46
46:KJ:374:ILE:O	46:KJ:377:MET:HG3	2.16	0.46
45:LC:311:LYS:N	45:LC:382:THR:OG1	2.46	0.46
45:LE:35:GLN:OE1	45:LE:35:GLN:N	2.49	0.46
46:MF:217:LEU:HD11	46:MF:220:PRO:HB3	1.97	0.46
46:MH:391:ARG:HA	46:MH:391:ARG:HD2	1.83	0.46
45:NA:316:SER:HB3	45:NA:352:LYS:HB3	1.97	0.46
46:ND:101:TRP:HB3	46:ND:398:TYR:HE1	1.80	0.46
46:NF:122:LYS:HE3	46:NF:125:GLU:OE2	2.15	0.46
46:NF:316:LEU:HD13	46:NF:352:SER:HB3	1.97	0.46
45:NG:116:ASP:N	45:NG:116:ASP:OD1	2.50	0.46
45:NK:205:ASP:OD1	45:NK:303:ALA:HA	2.15	0.46
46:NL:374:ILE:HG12	46:NL:422:TYR:OH	2.16	0.46
45:NM:293:ASN:O	45:NM:297:GLU:HG3	2.15	0.46
46:NN:379:LYS:O	46:NN:383:GLU:OE1	2.34	0.46
45:OA:302:MET:N	45:OA:302:MET:SD	2.89	0.46
46:OB:4:ILE:HG13	46:OB:132:GLY:O	2.15	0.46
46:OB:143:THR:O	46:OB:147:MET:HG2	2.15	0.46
46:OB:345:ILE:O	46:OB:345:ILE:HG13	2.16	0.46
46:OD:67:ASP:O	46:OD:92:PHE:HA	2.14	0.46
46:OD:286:VAL:CG2	46:OD:287:PRO:HD3	2.45	0.46
46:OD:383:GLU:HA	46:OD:386:THR:HG22	1.97	0.46
45:OE:123:ARG:HH21	45:PE:338:LYS:HE3	1.81	0.46
45:OE:387:VAL:HA	45:OE:390:ARG:HG2	1.98	0.46
46:OH:16:ILE:HD12	46:OH:229:VAL:HG11	1.99	0.46
46:OJ:417:ASP:O	46:OJ:421:GLU:HG3	2.15	0.46
45:OK:319:TYR:HB3	45:OK:323:VAL:HG21	1.97	0.46
46:OL:344:TRP:HB3	46:OL:430:ALA:HB2	1.97	0.46
46:ON:304:ASP:HB3	46:ON:307:HIS:ND1	2.31	0.46
46:ON:350:LYS:HD3	46:ON:351:SER:N	2.31	0.46
45:PC:21:TRP:CZ2	45:PC:65:ALA:HB2	2.51	0.46
45:PC:136:LEU:HD13	45:PC:167:LEU:HB2	1.97	0.46
46:PD:222:TYR:HA	46:PD:225:LEU:HD12	1.98	0.46
45:PE:395:PHE:HZ	45:PE:418:PHE:HB3	1.81	0.46
46:PF:44:LEU:O	46:PF:47:ILE:HG12	2.17	0.46
46:PH:210:ILE:O	46:PH:214:THR:HG22	2.16	0.46
45:PI:352:LYS:HZ3	46:PL:179:VAL:N	2.09	0.46
46:PL:6:HIS:NE2	46:PL:8:GLN:OE1	2.40	0.46
46:PL:240:LEU:HD12	46:PL:249:ASP:HB2	1.98	0.46
45:PM:404:PHE:CE1	46:PN:259:PRO:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:117:LEU:HA	46:PN:120:VAL:HG12	1.98	0.46
45:QA:214:ARG:NH1	45:QA:215:ARG:HB3	2.31	0.46
45:QC:252:ILE:HD12	45:QC:252:ILE:H	1.80	0.46
46:QD:67:ASP:OD1	46:QD:68:LEU:N	2.45	0.46
45:QE:290:GLU:OE1	45:QE:290:GLU:N	2.49	0.46
45:QG:143:GLY:HA3	47:QG:501:GTP:O2B	2.16	0.46
46:QH:258:ILE:HG13	46:QH:258:ILE:O	2.16	0.46
45:QK:119:LEU:HG	45:QK:156:ARG:CZ	2.45	0.46
45:QK:401:LYS:HE3	45:QK:401:LYS:HB2	1.68	0.46
45:QM:259:LEU:HD11	45:QM:316:SER:HB3	1.98	0.46
46:QN:288:GLU:O	46:QN:291:GLN:HG3	2.16	0.46
46:QN:391:ARG:HA	46:QN:391:ARG:HD2	1.78	0.46
46:RB:28:HIS:CD2	46:RB:241:ARG:HH21	2.34	0.46
46:RB:117:LEU:CD1	46:RB:154:LYS:HD2	2.46	0.46
46:RB:209:ASP:OD1	46:RB:213:ARG:HD3	2.16	0.46
45:RC:261:PRO:HA	46:RD:394:PHE:CD1	2.51	0.46
46:RD:6:HIS:O	46:RD:63:ALA:HA	2.16	0.46
45:RI:346:TRP:HH2	45:RI:435:VAL:HG13	1.82	0.46
45:RK:372:MET:SD	45:RK:372:MET:N	2.88	0.46
46:RL:421:GLU:HA	46:RL:424:GLN:OE1	2.16	0.46
45:SC:339:ARG:NH2	45:SC:340:THR:HA	2.31	0.46
46:SL:323:THR:HG21	45:SM:224:TYR:CE2	2.51	0.46
45:TC:9:VAL:HG13	45:TC:139:ASN:HB3	1.98	0.46
45:TC:53:PHE:O	45:TC:64:ARG:NH2	2.48	0.46
45:TC:167:LEU:HG	45:TC:200:VAL:HB	1.98	0.46
46:TD:292:GLN:HG2	46:TD:298:ASN:ND2	2.31	0.46
45:TE:49:PHE:HD1	45:TE:53:PHE:HB2	1.81	0.46
45:TE:56:THR:HG23	45:TE:58:ALA:H	1.80	0.46
45:TE:226:ASN:O	45:TE:229:ARG:HG2	2.16	0.46
46:TF:175:VAL:HG22	46:TF:205:GLU:HB2	1.98	0.46
45:TK:387:VAL:HA	45:TK:390:ARG:HG2	1.97	0.46
46:TL:32:PRO:HB3	46:TL:81:PHE:CD1	2.51	0.46
45:UA:171:ILE:HG23	45:UA:204:LEU:O	2.16	0.46
45:UA:301:MET:HG3	45:UA:303:ALA:H	1.80	0.46
45:UC:141:VAL:HG12	45:UC:171:ILE:O	2.16	0.46
46:UD:342:VAL:HG13	46:UD:345:ILE:HG22	1.98	0.46
46:UH:139:LEU:HD22	46:UH:170:VAL:HG12	1.97	0.46
46:UJ:11:GLN:O	46:UJ:15:GLN:HG2	2.16	0.46
46:UJ:395:LEU:O	46:UJ:399:THR:HG23	2.15	0.46
45:UK:175:PRO:HG3	45:UK:390:ARG:NH1	2.31	0.46
45:UK:331:SER:O	45:UK:335:ILE:HG12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:101:TRP:HB3	46:UL:398:TYR:HE1	1.81	0.46
46:VB:258:ILE:HD12	46:VB:264:HIS:HB3	1.96	0.46
46:VH:362:LYS:HA	46:VH:362:LYS:HD3	1.74	0.46
46:VN:228:LEU:HD12	46:VN:229:VAL:N	2.31	0.46
45:WA:107:HIS:ND1	45:WA:107:HIS:O	2.49	0.46
45:WC:66:VAL:HG11	45:WC:122:ILE:HD11	1.98	0.46
45:WC:326:LYS:HZ2	46:WF:219:THR:CA	2.29	0.46
45:WG:69:ASP:OD1	45:WG:71:GLU:HG3	2.15	0.46
45:WI:174:SER:OG	45:WI:207:GLU:OE1	2.31	0.46
45:WI:215:ARG:NH1	45:WI:299:ALA:HB1	2.31	0.46
45:WI:434:GLU:O	45:WI:437:ILE:HG12	2.16	0.46
45:WK:124:LYS:HE2	45:WK:124:LYS:HB2	1.81	0.46
46:WL:325:GLU:HA	46:WL:328:GLU:HG3	1.98	0.46
45:DC:68:LEU:HD23	45:DC:149:LEU:HD21	1.97	0.46
21:1L:545:GLU:HG2	45:BE:279:GLU:HG2	1.97	0.45
23:1O:214:ILE:HG12	45:UC:279:GLU:HA	1.98	0.45
33:4F:222:HIS:CE1	46:HN:44:LEU:HB2	2.50	0.45
34:4R:550:VAL:HA	34:4R:553:ILE:HG12	1.98	0.45
35:4S:106:PHE:HA	35:4S:109:LEU:HD13	1.98	0.45
35:5S:78:VAL:HG13	35:5S:79:ASN:N	2.31	0.45
40:6G:240:HIS:ND1	40:6G:240:HIS:O	2.49	0.45
10:6Q:40:GLN:NE2	10:6Q:41:ASP:OD1	2.49	0.45
34:6R:472:GLU:N	46:EN:78:ALA:HB1	2.32	0.45
45:AA:180:ALA:HA	46:AB:350:LYS:HD2	1.98	0.45
45:AC:102:ASN:OD1	45:AC:105:ARG:N	2.41	0.45
46:AF:6:HIS:O	46:AF:63:ALA:HA	2.16	0.45
46:AF:238:CYS:HB2	46:AF:318:ARG:NH2	2.32	0.45
45:AG:254:GLU:O	45:AG:255:PHE:HD1	2.00	0.45
46:AH:377:MET:HA	46:AH:380:ARG:NH1	2.31	0.45
45:AI:171:ILE:HG23	45:AI:204:LEU:O	2.17	0.45
46:AL:238:CYS:HB2	46:AL:318:ARG:NH1	2.31	0.45
46:BB:199:CYS:O	46:BB:265:PHE:HA	2.16	0.45
45:BC:124:LYS:HD3	45:BC:124:LYS:HA	1.76	0.45
46:BD:19:LYS:HG3	46:BD:226:ASN:CB	2.45	0.45
45:BE:224:TYR:HE2	46:BF:323:THR:HG1	1.63	0.45
45:BG:221:ARG:NH1	46:BH:322:SER:H	2.14	0.45
45:BM:80:THR:HA	45:BM:84:ARG:CZ	2.46	0.45
45:BM:192:HIS:HD2	45:BM:421:ALA:HA	1.81	0.45
46:BN:102:ALA:HB1	46:BN:401:GLU:HB2	1.99	0.45
45:CA:21:TRP:HZ2	45:CA:65:ALA:HB2	1.81	0.45
46:CD:70:PRO:O	46:CD:74:ASP:CB	2.62	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CG:129:CYS:SG	45:CG:130:THR:N	2.89	0.45
46:CH:285:THR:HB	46:CH:287:PRO:HD2	1.98	0.45
46:CH:341:PHE:HD2	46:CH:348:ASN:HD21	1.64	0.45
45:CI:326:LYS:HE2	46:CJ:220:PRO:HD2	1.97	0.45
45:CI:326:LYS:HD3	46:CJ:212:PHE:CZ	2.51	0.45
45:CK:241:SER:OG	45:CK:250:VAL:O	2.30	0.45
45:DE:75:ILE:HD12	45:DE:75:ILE:H	1.81	0.45
45:DE:88:HIS:HD2	45:DE:91:GLN:HG3	1.81	0.45
46:DH:9:GLY:HA2	46:DH:66:MET:O	2.16	0.45
45:DM:377:MET:HE1	45:DM:379:SER:HB3	1.98	0.45
46:EB:253:LEU:O	46:EB:257:LEU:HB2	2.16	0.45
45:EE:31:GLN:HG2	45:EE:35:GLN:O	2.16	0.45
46:EF:200:MET:HE3	46:EF:268:ILE:HD13	1.98	0.45
46:EF:221:THR:HG22	46:EF:224:ASP:OD2	2.16	0.45
46:EH:323:THR:OG1	45:EI:210:TYR:OH	2.33	0.45
45:EI:352:LYS:HD2	46:EJ:177:ASP:O	2.16	0.45
46:EJ:258:ILE:HD11	45:EK:407:TRP:CZ2	2.51	0.45
45:EK:224:TYR:HD1	45:EK:227:LEU:HD12	1.81	0.45
45:EK:314:ALA:HB3	45:EK:380:ASN:HB3	1.98	0.45
45:EM:275:ILE:HA	45:EM:368:LEU:HD11	1.98	0.45
46:EN:51:TYR:HB3	46:EN:59:TYR:HB3	1.98	0.45
45:FA:12:GLY:HA2	45:FA:15:GLN:HG2	1.98	0.45
45:FA:398:MET:CE	46:FB:345:ILE:HD12	2.46	0.45
46:FB:211:CYS:O	46:FB:216:LYS:N	2.49	0.45
45:FC:276:ILE:HD11	45:FC:280:LYS:HG3	1.98	0.45
45:FC:353:VAL:HG12	46:FF:177:ASP:HB2	1.97	0.45
46:FJ:178:THR:HG22	46:FJ:180:VAL:H	1.81	0.45
46:FN:21:TRP:CZ3	46:FN:50:TYR:HB3	2.51	0.45
46:GH:313:ALA:HB1	46:GH:367:PHE:HE1	1.80	0.45
45:GI:107:HIS:O	45:GI:107:HIS:ND1	2.48	0.45
45:GK:210:TYR:CE1	45:GK:227:LEU:HD11	2.42	0.45
46:GL:3:GLU:OE1	46:GL:3:GLU:N	2.45	0.45
45:HC:72:PRO:HD2	46:HD:2:ARG:NH1	2.32	0.45
45:HE:211:ASP:HB3	45:HE:215:ARG:NH1	2.31	0.45
45:HG:420:GLU:HA	45:HG:423:GLU:OE2	2.16	0.45
45:HI:7:ILE:HB	45:HI:137:VAL:HG12	1.97	0.45
45:HI:205:ASP:OD1	45:HI:303:ALA:HA	2.16	0.45
45:HI:239:THR:HG23	45:HI:243:ARG:HE	1.81	0.45
46:HJ:167:PHE:CE2	46:HJ:233:MET:HG2	2.51	0.45
46:HJ:174:LYS:HB2	46:HJ:205:GLU:OE1	2.16	0.45
45:HK:152:LEU:HA	45:HK:155:GLU:OE2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IB:345:ILE:HG13	46:IB:345:ILE:O	2.16	0.45
46:ID:86:ARG:HB3	46:ID:89:ASN:OD1	2.16	0.45
46:IF:229:VAL:O	46:IF:233:MET:HG3	2.15	0.45
45:IG:220:GLU:HG2	45:IG:221:ARG:HG2	1.98	0.45
45:IG:350:GLY:HA2	46:IJ:179:VAL:HG23	1.98	0.45
46:IJ:295:ASP:OD2	46:IJ:297:LYS:N	2.47	0.45
45:IK:174:SER:HB2	45:IK:177:VAL:O	2.15	0.45
46:IL:201:VAL:HG23	46:IL:301:CYS:SG	2.56	0.45
45:IM:384:ILE:O	45:IM:387:VAL:HG22	2.16	0.45
46:IN:114:ASP:N	46:IN:114:ASP:OD2	2.48	0.45
45:JA:80:THR:O	45:JA:84:ARG:NH2	2.49	0.45
46:JD:235:GLY:HA2	46:JD:238:CYS:SG	2.56	0.45
45:JE:147:SER:HB2	45:JE:190:SER:HB3	1.97	0.45
46:JF:290:THR:HA	46:JF:293:MET:HG2	1.98	0.45
46:JF:326:VAL:HG12	46:JF:330:MET:CE	2.46	0.45
46:JF:327:ASP:HA	46:JF:330:MET:HE1	1.98	0.45
45:JG:103:PHE:H	45:JG:408:TYR:HE1	1.65	0.45
45:JI:100:ALA:HA	46:JJ:252:LYS:CG	2.46	0.45
45:JM:152:LEU:HA	45:JM:155:GLU:OE2	2.16	0.45
46:JN:3:GLU:OE1	46:JN:127:CYS:HB2	2.16	0.45
46:JN:324:LYS:HG3	46:JN:325:GLU:N	2.31	0.45
46:JN:384:GLN:O	46:JN:388:MET:HG2	2.17	0.45
45:KA:260:VAL:HB	46:KD:397:TRP:HH2	1.81	0.45
46:KD:101:TRP:CE3	46:KD:187:LEU:HD23	2.51	0.45
45:KG:183:GLU:N	45:KG:184:PRO:HD2	2.31	0.45
45:KG:296:PHE:CD2	45:KG:335:ILE:HD12	2.51	0.45
45:KK:352:LYS:HA	46:KN:177:ASP:O	2.16	0.45
46:LB:164:MET:O	46:LB:197:ASP:HB2	2.15	0.45
46:LD:186:THR:HA	46:LD:189:VAL:HG12	1.98	0.45
46:LF:287:PRO:HA	46:LF:290:THR:HG22	1.98	0.45
45:LI:195:LEU:HD12	45:LI:428:LEU:HD22	1.97	0.45
46:LJ:14:ASN:HD22	46:LJ:14:ASN:H	1.65	0.45
45:LK:97:GLU:HG3	45:LK:105:ARG:HH22	1.80	0.45
45:LK:141:VAL:HG23	45:LK:170:THR:HB	1.98	0.45
45:LK:271:SER:HB2	45:LK:301:MET:SD	2.57	0.45
46:LL:73:MET:CE	46:LL:92:PHE:HB3	2.46	0.45
45:LM:129:CYS:SG	45:LM:132:LEU:HB2	2.57	0.45
45:LM:430:LYS:HA	45:LM:433:GLU:OE2	2.15	0.45
45:LM:430:LYS:O	45:LM:434:GLU:HB2	2.17	0.45
45:MA:205:ASP:OD2	45:MA:206:ASN:N	2.49	0.45
45:MA:414:GLU:OE1	45:MA:415:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MB:6:HIS:O	46:MB:63:ALA:HA	2.15	0.45
45:MI:214:ARG:HH12	46:MJ:324:LYS:NZ	2.14	0.45
45:MI:220:GLU:HG2	45:MI:221:ARG:HD2	1.98	0.45
45:MI:399:TYR:O	45:MI:402:ARG:NH1	2.49	0.45
45:MM:288:VAL:HG11	45:MM:327:ASP:HB3	1.97	0.45
46:MN:102:ALA:O	46:MN:106:TYR:HB2	2.16	0.45
45:NA:186:ASN:OD1	45:NA:187:SER:N	2.48	0.45
46:NB:31:ASP:OD1	46:NB:34:GLY:N	2.49	0.45
46:NB:156:ARG:CZ	46:NB:195:ASN:HA	2.47	0.45
46:ND:161:ASP:OD1	46:ND:162:ARG:N	2.49	0.45
46:NF:318:ARG:HD3	46:NF:358:PRO:HD3	1.97	0.45
45:NG:147:SER:HB2	45:NG:190:SER:OG	2.15	0.45
46:NH:51:TYR:HE1	46:NH:61:PRO:HG3	1.81	0.45
46:NH:332:ASN:OD1	46:NH:336:LYS:HD3	2.15	0.45
45:NI:70:LEU:HD13	45:NI:145:THR:OG1	2.16	0.45
45:NK:100:ALA:HA	46:NL:252:LYS:HZ2	1.81	0.45
45:NK:225:THR:O	45:NK:229:ARG:HG3	2.17	0.45
46:NN:271:ALA:HB3	46:NN:365:VAL:HB	1.97	0.45
46:OB:55:THR:HG23	46:PB:283:ALA:HA	1.97	0.45
45:OC:305:CYS:O	45:OC:307:PRO:HD3	2.16	0.45
45:OE:133:GLN:N	45:OE:133:GLN:OE1	2.49	0.45
45:OG:90:GLU:N	45:PG:280:LYS:HZ1	2.14	0.45
46:OH:105:HIS:CE1	46:OH:150:LEU:HD12	2.51	0.45
46:OH:199:CYS:HB3	46:OH:265:PHE:CD2	2.51	0.45
45:OI:21:TRP:CZ2	45:OI:65:ALA:HB2	2.52	0.45
45:OI:50:ASN:O	45:OI:64:ARG:NH1	2.28	0.45
45:OI:329:ASN:HD22	46:OL:175:VAL:CG1	2.30	0.45
45:OI:329:ASN:HD22	46:OL:175:VAL:HG12	1.81	0.45
46:OJ:65:LEU:HB3	46:OJ:73:MET:HE1	1.98	0.45
46:OL:221:THR:HG23	46:OL:224:ASP:H	1.81	0.45
46:ON:133:PHE:CE1	46:ON:155:VAL:HG21	2.51	0.45
46:ON:173:PRO:HD3	46:ON:380:ARG:NH1	2.30	0.45
45:PC:88:HIS:HA	45:QC:280:LYS:HE2	1.98	0.45
45:PC:175:PRO:HA	45:PC:390:ARG:CZ	2.47	0.45
46:PD:81:PHE:HD2	46:PD:84:LEU:HD11	1.81	0.45
46:PD:131:GLN:HE22	46:PD:240:LEU:HD11	1.81	0.45
45:PE:345:ASP:OD2	45:PE:346:TRP:N	2.49	0.45
46:PF:86:ARG:NH2	46:QD:282:ARG:HG2	2.31	0.45
45:PI:121:ARG:HA	45:PI:121:ARG:HH11	1.80	0.45
45:PI:192:HIS:ND1	45:PI:424:ASP:OD2	2.48	0.45
46:PJ:260:PHE:CE2	46:PJ:425:TYR:HE1	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PK:9:VAL:HG13	45:PK:139:ASN:HB3	1.98	0.45
45:PK:101:ASN:HA	45:PK:144:GLY:H	1.81	0.45
46:PL:12:CYS:O	46:PL:16:ILE:HG12	2.15	0.45
46:PN:58:ARG:HH21	46:PN:83:GLN:NE2	2.14	0.45
46:PN:132:GLY:HA3	46:PN:163:ILE:HG12	1.97	0.45
45:QA:136:LEU:HD11	45:QA:169:PHE:CE2	2.51	0.45
46:QD:101:TRP:HB2	46:QD:184:ASN:HB3	1.98	0.45
46:QD:201:VAL:HG12	46:QD:266:PHE:O	2.16	0.45
46:QH:50:TYR:HE2	46:QH:241:ARG:HD3	1.81	0.45
46:QH:105:HIS:HD2	46:QH:146:GLY:O	1.99	0.45
45:QI:5:ILE:HB	45:QI:135:PHE:HD1	1.82	0.45
46:QL:22:GLU:HG2	46:QL:81:PHE:CD2	2.51	0.45
45:QM:4:VAL:H	45:QM:64:ARG:HH12	1.64	0.45
45:QM:66:VAL:HG11	45:QM:122:ILE:HD11	1.97	0.45
45:RG:184:PRO:O	45:RG:188:ILE:HG12	2.15	0.45
46:RH:222:TYR:O	46:RH:226:ASN:ND2	2.28	0.45
45:RM:64:ARG:NH2	45:RM:129:CYS:SG	2.74	0.45
46:SB:167:PHE:CE1	46:SB:233:MET:HG2	2.52	0.45
46:SB:238:CYS:SG	46:SB:239:CYS:N	2.90	0.45
46:SB:344:TRP:CE3	45:SC:401:LYS:HE3	2.51	0.45
45:SC:74:VAL:O	45:SC:78:VAL:HG23	2.16	0.45
45:SC:395:PHE:CD1	45:SC:422:ARG:HD2	2.51	0.45
46:SD:391:ARG:HA	46:SD:391:ARG:HD2	1.75	0.45
46:SJ:25:SER:OG	46:SJ:51:TYR:OH	2.30	0.45
45:SK:144:GLY:N	47:SK:501:GTP:O2G	2.49	0.45
46:SN:318:ARG:HH11	46:SN:358:PRO:HG3	1.81	0.45
45:TA:262:TYR:OH	46:TB:391:ARG:O	2.30	0.45
46:TB:28:HIS:C	46:TB:43:GLN:HE21	2.20	0.45
45:TC:240:ALA:HA	45:TC:243:ARG:NH1	2.31	0.45
46:TD:86:ARG:HH21	46:TD:87:PRO:HG2	1.81	0.45
46:TJ:105:HIS:CE1	46:TJ:150:LEU:HD12	2.51	0.45
46:TL:226:ASN:HA	46:TL:229:VAL:HG22	1.98	0.45
46:TN:116:VAL:HA	46:TN:119:VAL:HG12	1.98	0.45
46:UF:97:ALA:HB3	46:UF:143:THR:HG22	1.97	0.45
46:UF:287:PRO:HA	46:UF:290:THR:HG22	1.97	0.45
45:UI:2:ARG:O	45:UI:51:THR:HA	2.16	0.45
45:UK:348:PRO:HD2	46:UL:388:MET:HE2	1.98	0.45
46:UL:4:ILE:HG13	46:UL:132:GLY:O	2.17	0.45
46:UL:45:GLU:OE1	46:UL:45:GLU:N	2.50	0.45
46:UL:68:LEU:HD23	46:UL:147:MET:HE1	1.97	0.45
46:UL:150:LEU:O	46:UL:154:LYS:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:189:VAL:HA	46:UL:192:LEU:HB2	1.97	0.45
46:UL:204:ASN:HA	46:UL:207:LEU:HD12	1.98	0.45
45:UM:2:ARG:O	45:UM:51:THR:HA	2.16	0.45
46:UN:272:PRO:HB3	46:UN:292:GLN:HE22	1.80	0.45
46:UN:313:ALA:HB1	46:UN:367:PHE:HE1	1.81	0.45
45:VA:282:TYR:OH	45:VA:370:LYS:O	2.24	0.45
45:VG:132:LEU:HD22	45:VG:164:LYS:NZ	2.32	0.45
45:VK:121:ARG:HH21	45:VK:124:LYS:HD2	1.81	0.45
46:WB:47:ILE:HD12	46:WB:59:TYR:CE1	2.46	0.45
45:WE:419:SER:O	45:WE:422:ARG:N	2.50	0.45
46:WF:229:VAL:O	46:WF:233:MET:HG2	2.17	0.45
45:WG:315:CYS:HB3	45:WG:377:MET:CE	2.47	0.45
46:WL:116:VAL:HA	46:WL:119:VAL:HG22	1.96	0.45
46:WL:148:GLY:O	46:WL:152:ILE:HG13	2.16	0.45
45:WM:171:ILE:HG23	45:WM:204:LEU:O	2.16	0.45
45:DC:152:LEU:O	45:DC:156:ARG:HG2	2.16	0.45
45:DC:371:VAL:HG22	45:DC:373:ARG:H	1.81	0.45
11:OS:278:ARG:NH2	46:WB:118:ASP:HB2	2.26	0.45
20:1K:15:ASN:HD21	45:NC:359:PRO:HD3	1.82	0.45
21:1L:837:LYS:HB2	46:BD:39:ASP:OD2	2.15	0.45
28:2F:93:GLU:OE1	45:HE:299:ALA:N	2.49	0.45
31:2I:113:ASP:HB3	45:FC:160:ASP:O	2.17	0.45
23:2O:228:GLN:HB3	46:UJ:56:GLY:CA	2.47	0.45
37:5E:117:ILE:HA	37:5E:118:PRO:HD3	1.83	0.45
37:5F:97:ARG:HH12	46:KF:262:ARG:CZ	2.29	0.45
37:5F:113:LEU:HD11	45:NE:80:THR:HG22	1.98	0.45
37:5G:126:LEU:HD13	45:OI:285:GLN:HE21	1.81	0.45
37:5H:36:PRO:HB2	37:5H:40:TYR:HB2	1.99	0.45
37:5H:145:GLU:OE1	37:5H:149:ARG:NH1	2.49	0.45
10:5Q:1:MET:HB3	10:5Q:3:LYS:HE3	1.97	0.45
34:5R:298:ASP:OD1	34:5R:299:ALA:N	2.49	0.45
34:5R:500:VAL:HG21	46:EJ:32:PRO:HD2	1.99	0.45
39:6F:99:ARG:HD3	39:6F:101:SER:HB3	1.97	0.45
34:6R:500:VAL:HG12	34:6R:500:VAL:O	2.15	0.45
34:7R:311:LYS:HB2	34:7R:311:LYS:HE3	1.62	0.45
45:AC:11:GLN:HG3	45:AC:74:VAL:HG11	1.98	0.45
45:AC:220:GLU:HG2	45:AC:221:ARG:HG3	1.98	0.45
45:AC:238:LEU:HD11	45:AC:255:PHE:CZ	2.51	0.45
45:AC:362:VAL:HG13	45:AC:370:LYS:HD3	1.97	0.45
45:AE:183:GLU:N	45:AE:184:PRO:HD2	2.31	0.45
45:AG:183:GLU:N	45:AG:184:PRO:HD2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AH:190:HIS:CD2	46:AH:411:ALA:HA	2.52	0.45
45:AK:176:GLN:NE2	45:AK:207:GLU:OE2	2.49	0.45
45:BA:194:LEU:HB2	45:BA:198:THR:OG1	2.17	0.45
46:BB:309:ARG:HG3	46:BB:426:GLN:HE22	1.80	0.45
45:BC:18:ASN:O	45:BC:22:GLU:OE1	2.33	0.45
46:BD:105:HIS:CD2	46:BD:150:LEU:HB2	2.51	0.45
45:BE:31:GLN:CD	45:BE:32:PRO:HD2	2.36	0.45
45:BE:387:VAL:HA	45:BE:390:ARG:HG2	1.98	0.45
46:BH:318:ARG:HH11	46:BH:358:PRO:HG3	1.80	0.45
45:BI:24:PHE:CE1	45:BI:52:PHE:HE2	2.34	0.45
45:BI:216:ASN:HB3	45:BI:275:ILE:O	2.16	0.45
46:BJ:167:PHE:CE1	46:BJ:233:MET:SD	3.09	0.45
45:CC:88:HIS:CE1	45:DC:280:LYS:HE2	2.51	0.45
46:CD:323:THR:HG1	45:CE:224:TYR:HE1	1.63	0.45
46:CF:273:LEU:O	46:CF:282:ARG:NH1	2.47	0.45
45:CG:194:LEU:HD23	45:CG:198:THR:HG21	1.96	0.45
45:CG:346:TRP:CD1	46:CH:391:ARG:HG3	2.51	0.45
46:CJ:149:THR:HA	46:CJ:152:ILE:HD12	1.98	0.45
46:CJ:203:ASP:OD2	46:CJ:302:ALA:N	2.29	0.45
46:CL:86:ARG:NH1	46:CL:88:ASP:HB3	2.32	0.45
46:CL:375:GLN:OE1	46:CL:423:GLN:HB3	2.16	0.45
46:DB:344:TRP:HB3	46:DB:430:ALA:HB2	1.98	0.45
45:DE:205:ASP:OD1	45:DE:303:ALA:HA	2.15	0.45
46:EB:322:SER:OG	46:EB:325:GLU:OE2	2.25	0.45
45:EC:167:LEU:HD21	45:EC:252:ILE:HD11	1.97	0.45
45:EG:207:GLU:HA	45:EG:207:GLU:OE2	2.16	0.45
45:EI:434:GLU:O	45:EI:437:ILE:HG22	2.16	0.45
46:EJ:19:LYS:O	46:EJ:23:VAL:HG23	2.16	0.45
46:EN:100:ASN:ND2	46:EN:103:LYS:HG3	2.31	0.45
46:EN:274:THR:HB	46:EN:282:ARG:HH11	1.82	0.45
45:FA:60:LYS:NZ	45:FA:85:GLN:O	2.38	0.45
45:FA:104:ALA:HB2	45:FA:413:MET:HE2	1.98	0.45
46:FB:260:PHE:HB2	46:FB:263:LEU:HD13	1.98	0.45
45:FC:220:GLU:H	45:FC:220:GLU:CD	2.19	0.45
45:FG:231:ILE:O	45:FG:235:ILE:HG12	2.16	0.45
45:FG:398:MET:HE1	46:FH:345:ILE:HD12	1.98	0.45
45:FI:253:THR:HA	45:FI:256:GLN:HE21	1.80	0.45
46:FJ:221:THR:HG23	46:FJ:224:ASP:H	1.81	0.45
46:FJ:250:LEU:HD12	46:FJ:250:LEU:H	1.81	0.45
46:FL:154:LYS:O	46:FL:157:GLU:HG3	2.16	0.45
45:GA:320:ARG:HD3	45:GA:360:PRO:HG3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GE:115:VAL:O	45:GE:119:LEU:HD23	2.16	0.45
46:GF:68:LEU:HD21	46:GF:147:MET:SD	2.56	0.45
46:GH:406:MET:O	46:GH:410:GLU:HG2	2.16	0.45
46:GJ:133:PHE:HB2	46:GJ:164:MET:SD	2.56	0.45
46:GN:159:TYR:HB3	46:GN:162:ARG:HG2	1.97	0.45
46:GN:319:GLY:HA3	46:GN:363:MET:HE2	1.98	0.45
46:GN:325:GLU:HA	46:GN:328:GLU:HG2	1.98	0.45
46:GN:409:THR:O	46:GN:412:GLU:HG3	2.17	0.45
45:HA:413:MET:HB3	45:HA:417:GLU:OE2	2.15	0.45
46:HB:239:CYS:O	46:HB:247:ASN:ND2	2.46	0.45
45:HC:284:GLU:OE1	45:HC:286:LEU:HD22	2.16	0.45
45:HE:284:GLU:HG2	45:HE:286:LEU:HD22	1.97	0.45
45:HG:68:LEU:HD21	45:HG:118:CYS:HB2	1.98	0.45
46:HH:12:CYS:O	46:HH:16:ILE:HG12	2.15	0.45
46:HJ:22:GLU:HG2	46:HJ:81:PHE:CD1	2.49	0.45
45:HK:390:ARG:HG3	45:HK:391:LEU:HD12	1.98	0.45
46:HL:48:ASN:O	46:HL:62:ARG:NH1	2.48	0.45
46:HN:1:MET:HE3	46:HN:2:ARG:H	1.81	0.45
46:HN:213:ARG:HG3	46:HN:297:LYS:NZ	2.32	0.45
46:HN:391:ARG:HD2	46:HN:391:ARG:HA	1.77	0.45
45:IA:288:VAL:HA	45:IA:291:ILE:HG12	1.97	0.45
46:IB:97:ALA:HA	46:IB:103:LYS:HE3	1.98	0.45
46:ID:201:VAL:O	46:ID:202:ILE:HD13	2.15	0.45
46:ID:417:ASP:O	46:ID:421:GLU:HG2	2.16	0.45
45:IE:286:LEU:O	45:IE:373:ARG:NH2	2.33	0.45
46:IH:72:THR:HG23	46:IH:73:MET:SD	2.56	0.45
46:IJ:16:ILE:HD12	46:IJ:229:VAL:HG11	1.98	0.45
45:IK:68:LEU:HD21	45:IK:118:CYS:HB2	1.97	0.45
46:JB:304:ASP:OD1	46:JB:307:HIS:CE1	2.69	0.45
45:JI:46:ASP:N	45:JI:46:ASP:OD1	2.49	0.45
46:JL:380:ARG:HA	46:JL:383:GLU:HG3	1.98	0.45
46:JN:375:GLN:HG3	46:JN:379:LYS:HZ1	1.81	0.45
45:KC:11:GLN:NE2	45:KC:15:GLN:OE1	2.49	0.45
45:KG:252:ILE:HD12	45:KG:252:ILE:H	1.81	0.45
46:KJ:105:HIS:CD2	46:KJ:150:LEU:HB2	2.51	0.45
46:KL:395:LEU:O	46:KL:399:THR:HG23	2.16	0.45
45:KM:175:PRO:HB3	45:KM:390:ARG:NH1	2.31	0.45
46:KN:325:GLU:HA	46:KN:328:GLU:OE2	2.16	0.45
46:LB:175:VAL:HG21	46:LB:204:ASN:HD21	1.81	0.45
45:LI:183:GLU:N	45:LI:184:PRO:HD2	2.31	0.45
45:LI:238:LEU:HD11	45:LI:255:PHE:CE2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:100:ASN:HB3	46:LJ:103:LYS:HB2	1.98	0.45
45:MA:282:TYR:CE1	45:MA:371:VAL:HG22	2.51	0.45
46:MB:116:VAL:O	46:MB:120:VAL:HG23	2.16	0.45
45:ME:231:ILE:O	45:ME:235:ILE:HG12	2.17	0.45
46:MF:37:HIS:ND1	46:MF:37:HIS:O	2.49	0.45
45:MI:176:GLN:O	46:MJ:347:ASN:ND2	2.48	0.45
46:MJ:238:CYS:HB2	46:MJ:318:ARG:NH1	2.32	0.45
45:MK:260:VAL:HG13	45:MK:265:ILE:O	2.15	0.45
45:MM:224:TYR:CE2	46:MN:323:THR:HG21	2.51	0.45
46:MN:69:GLU:OE1	46:MN:71:GLY:N	2.48	0.45
45:NA:72:PRO:HG2	46:NB:1:MET:CE	2.46	0.45
46:ND:200:MET:N	46:ND:200:MET:SD	2.89	0.45
46:NF:31:ASP:HB2	46:NF:32:PRO:HD2	1.99	0.45
46:NF:321:MET:N	46:NF:321:MET:SD	2.90	0.45
46:NH:64:ILE:HD13	46:NH:119:VAL:HG13	1.99	0.45
46:NH:203:ASP:O	46:NH:207:LEU:HG	2.16	0.45
46:NH:248:SER:HA	46:NH:252:LYS:HD3	1.99	0.45
47:NI:501:GTP:O1G	46:NJ:252:LYS:NZ	2.37	0.45
46:NJ:233:MET:O	46:NJ:236:VAL:HG22	2.16	0.45
45:NM:10:GLY:O	45:NM:14:ILE:HG12	2.15	0.45
45:OA:319:TYR:HE2	45:OA:328:VAL:HG13	1.81	0.45
45:OC:174:SER:HB2	45:OC:177:VAL:O	2.16	0.45
45:OC:178:SER:HB2	46:OD:347:ASN:ND2	2.30	0.45
45:OE:206:ASN:OD1	47:OF:501:GTP:O2'	2.32	0.45
45:OE:331:SER:O	45:OE:335:ILE:HG12	2.16	0.45
45:OG:221:ARG:O	45:OG:221:ARG:HG3	2.16	0.45
46:OH:34:GLY:HA3	46:OH:58:ARG:HG3	1.98	0.45
45:OI:301:MET:HE1	45:OI:307:PRO:HG3	1.99	0.45
46:OL:16:ILE:HD13	46:OL:226:ASN:ND2	2.29	0.45
46:OL:207:LEU:HB3	46:OL:225:LEU:HD22	1.98	0.45
45:OM:174:SER:HB2	45:OM:177:VAL:O	2.16	0.45
45:PA:212:ILE:HD13	45:PA:215:ARG:NH2	2.31	0.45
46:PB:116:VAL:HA	46:PB:119:VAL:HG12	1.99	0.45
46:PD:44:LEU:HA	46:PD:47:ILE:HG23	1.98	0.45
46:PD:256:ASN:ND2	46:PD:350:LYS:HE3	2.32	0.45
46:PF:266:PHE:CE1	46:PF:370:ASN:HB2	2.51	0.45
45:PG:261:PRO:HG3	46:PJ:394:PHE:CE2	2.50	0.45
45:PK:171:ILE:HG21	47:PK:501:GTP:HN22	1.81	0.45
45:PM:386:GLU:O	45:PM:390:ARG:HG2	2.17	0.45
45:QA:211:ASP:O	45:QA:215:ARG:HG2	2.15	0.45
46:QB:16:ILE:HD13	46:QB:226:ASN:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QD:330:MET:HB2	46:QD:349:ILE:HD12	1.97	0.45
45:QE:288:VAL:HA	45:QE:291:ILE:HG12	1.97	0.45
46:QF:252:LYS:HZ2	45:QG:101:ASN:CG	2.18	0.45
45:QG:11:GLN:NE2	45:QG:69:ASP:OD2	2.49	0.45
46:QH:110:ALA:O	46:QH:113:ILE:HG22	2.17	0.45
46:QH:254:ALA:O	46:QH:258:ILE:HG12	2.17	0.45
46:QJ:86:ARG:NH1	46:RJ:282:ARG:HG2	2.30	0.45
45:QK:254:GLU:OE1	46:QL:99:ASN:ND2	2.48	0.45
46:QL:58:ARG:NH1	46:QL:59:TYR:O	2.50	0.45
45:QM:20:CYS:HA	45:QM:232:ALA:HB1	1.96	0.45
45:QM:70:LEU:HD13	45:QM:145:THR:OG1	2.16	0.45
45:RA:141:VAL:HG11	45:RA:172:TYR:HD1	1.81	0.45
45:RA:401:LYS:HE3	45:RA:401:LYS:HB2	1.73	0.45
46:RB:292:GLN:NE2	46:RB:298:ASN:OD1	2.49	0.45
46:RD:260:PHE:HB2	46:RD:263:LEU:HD13	1.98	0.45
45:RG:352:LYS:HZ1	46:RH:178:THR:HA	1.81	0.45
46:RH:116:VAL:HA	46:RH:119:VAL:HG22	1.98	0.45
45:RI:68:LEU:HD11	45:RI:118:CYS:SG	2.56	0.45
46:RJ:42:LEU:HA	46:RJ:45:GLU:HG3	1.97	0.45
45:RM:262:TYR:OH	46:RN:391:ARG:O	2.27	0.45
45:SC:55:GLU:HG3	45:SC:57:GLY:H	1.80	0.45
45:SC:267:PHE:HD2	45:SC:388:PHE:HZ	1.64	0.45
46:SD:4:ILE:HG13	46:SD:132:GLY:O	2.17	0.45
46:SF:226:ASN:HA	46:SF:229:VAL:HG12	1.99	0.45
45:SG:390:ARG:HG3	45:SG:391:LEU:HD12	1.98	0.45
45:SI:209:ILE:CD1	45:SI:227:LEU:HD22	2.47	0.45
46:SJ:320:ARG:HG2	46:SJ:355:ASP:HB3	1.99	0.45
45:SK:402:ARG:HG3	45:SK:405:VAL:HG21	1.98	0.45
46:SL:100:ASN:HB3	46:SL:103:LYS:HB3	1.97	0.45
46:SL:330:MET:HA	46:SL:333:VAL:HG22	1.98	0.45
46:SL:345:ILE:HA	45:SM:398:MET:HE1	1.98	0.45
45:SM:326:LYS:HD3	46:SN:212:PHE:CZ	2.47	0.45
46:TB:241:ARG:HH22	46:TB:318:ARG:NH2	2.15	0.45
45:TC:229:ARG:NH1	45:TC:366:GLY:HA2	2.31	0.45
45:TC:257:THR:HG22	46:TD:100:ASN:HD21	1.79	0.45
45:TE:401:LYS:HE3	45:TE:401:LYS:HB2	1.70	0.45
46:TF:87:PRO:HA	46:TF:90:PHE:CD2	2.52	0.45
45:TI:167:LEU:HD13	45:TI:200:VAL:HB	1.98	0.45
45:TI:414:GLU:HB3	45:TI:417:GLU:OE1	2.17	0.45
46:TJ:225:LEU:O	46:TJ:228:LEU:HG	2.16	0.45
46:TJ:262:ARG:NH1	46:TJ:421:GLU:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UB:6:HIS:O	46:UB:63:ALA:HA	2.16	0.45
46:UF:286:VAL:HG21	46:UF:321:MET:HE2	1.98	0.45
46:VB:316:LEU:HB2	46:VB:366:THR:OG1	2.16	0.45
46:VH:105:HIS:CE1	46:VH:150:LEU:HD12	2.51	0.45
45:VI:269:LEU:HD12	45:VI:301:MET:SD	2.56	0.45
46:VJ:97:ALA:HA	46:VJ:103:LYS:HG2	1.98	0.45
46:VJ:204:ASN:HA	46:VJ:207:LEU:HD12	1.98	0.45
46:VL:36:TYR:CZ	46:VL:44:LEU:HD11	2.51	0.45
46:VL:237:THR:HG23	46:VL:241:ARG:NE	2.31	0.45
46:VL:288:GLU:HA	46:VL:291:GLN:HG3	1.98	0.45
46:VN:87:PRO:HA	46:VN:90:PHE:HD2	1.81	0.45
46:VN:312:THR:HG22	46:VN:370:ASN:OD1	2.16	0.45
45:WC:245:ASP:N	45:WC:245:ASP:OD1	2.49	0.45
46:WD:11:GLN:HB3	46:WD:72:THR:HG21	1.97	0.45
45:WE:319:TYR:CE2	45:WE:328:VAL:HG22	2.50	0.45
46:WF:97:ALA:HA	46:WF:103:LYS:HD2	1.98	0.45
45:WG:221:ARG:NE	46:WH:322:SER:OG	2.48	0.45
46:WH:74:ASP:HA	46:WH:77:ARG:HH11	1.81	0.45
46:WH:113:ILE:HD11	46:WH:151:LEU:HB2	1.97	0.45
45:WI:75:ILE:HG23	45:WI:92:LEU:HD12	1.98	0.45
45:WK:212:ILE:HD11	45:WK:300:ASN:HA	1.99	0.45
46:WN:309:ARG:N	46:WN:372:THR:HG1	2.14	0.45
45:CE:172:TYR:OH	45:CE:191:THR:HG22	2.17	0.45
7:OG:38:GLU:OE2	46:JL:359:LYS:HG3	2.16	0.45
4:1D:15:THR:O	46:CF:46:ARG:NH1	2.48	0.45
19:1J:80:LYS:HG2	45:IC:373:ARG:NH2	2.30	0.45
19:1J:302:PHE:HE1	45:IK:280:LYS:HE2	1.80	0.45
14:1V:24:ARG:NH2	45:MI:434:GLU:OE2	2.49	0.45
26:1W:57:ILE:HG22	46:LH:23:VAL:HG22	1.98	0.45
27:2C:6:VAL:HB	15:4X:70:TYR:HE1	1.80	0.45
30:2H:174:PHE:CE2	45:AA:357:TYR:HB2	2.52	0.45
23:2O:145:LYS:HG3	45:VK:372:MET:SD	2.56	0.45
30:3H:177:ASN:ND2	45:AE:357:TYR:CE1	2.85	0.45
15:3X:99:VAL:HG12	45:MK:282:TYR:CE2	2.51	0.45
34:4R:231:TYR:HA	34:4R:234:VAL:HG12	1.98	0.45
36:5B:126:ILE:HD11	46:NH:224:ASP:HA	1.98	0.45
34:5R:32:THR:HG23	34:5R:39:CYS:SG	2.57	0.45
10:6Q:71:ILE:HG21	10:6Q:167:PHE:CD2	2.51	0.45
34:7R:555:ASN:OD1	34:7R:575:ARG:NE	2.48	0.45
45:AA:89:PRO:HD2	45:BA:280:LYS:CE	2.47	0.45
45:AA:223:THR:HG23	45:AA:225:THR:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AB:121:ARG:O	46:AB:125:GLU:OE1	2.34	0.45
45:AE:174:SER:HB2	45:AE:177:VAL:O	2.16	0.45
45:AE:383:ALA:O	45:AE:386:GLU:HG2	2.17	0.45
45:AG:174:SER:HB3	45:AG:207:GLU:HG3	1.98	0.45
45:AI:332:ILE:HD12	45:AI:351:PHE:CE2	2.52	0.45
46:AJ:86:ARG:HE	46:AJ:87:PRO:HD2	1.81	0.45
46:AJ:208:TYR:CE2	46:AJ:225:LEU:HD11	2.51	0.45
46:AN:19:LYS:HA	46:AN:19:LYS:HD2	1.76	0.45
46:AN:287:PRO:HG3	46:AN:329:GLN:NE2	2.31	0.45
46:BD:293:MET:SD	46:BD:365:VAL:HG11	2.56	0.45
45:BG:329:ASN:HA	45:BG:332:ILE:HG22	1.98	0.45
46:BJ:342:VAL:HG22	46:BJ:344:TRP:HD1	1.81	0.45
46:BL:410:GLU:O	46:BL:413:SER:OG	2.23	0.45
45:BM:27:GLU:OE1	45:BM:236:SER:OG	2.33	0.45
46:BN:86:ARG:HD2	46:CL:281:TYR:CD1	2.51	0.45
46:BN:116:VAL:O	46:BN:119:VAL:HG12	2.17	0.45
45:CA:55:GLU:HA	45:CA:55:GLU:OE2	2.16	0.45
46:CF:46:ARG:NH2	45:CG:76:ASP:OD2	2.46	0.45
46:CJ:16:ILE:HD12	46:CJ:229:VAL:HG11	1.98	0.45
46:CL:207:LEU:HD13	46:CL:225:LEU:HB2	1.97	0.45
45:CM:5:ILE:HB	45:CM:135:PHE:CD1	2.50	0.45
45:CM:270:SER:OG	45:CM:271:SER:N	2.50	0.45
45:DA:258:ASN:HD21	46:DB:178:THR:HG23	1.81	0.45
45:DA:292:THR:HG21	45:DA:331:SER:HB3	1.97	0.45
46:DD:73:MET:HB2	46:DD:90:PHE:CD1	2.52	0.45
46:DD:420:SER:O	46:DD:424:GLN:HG2	2.16	0.45
46:DF:102:ALA:HB2	46:DF:398:TYR:HD1	1.80	0.45
45:DG:269:LEU:HD22	45:DG:305:CYS:SG	2.56	0.45
46:DJ:163:ILE:HA	46:DJ:197:ASP:OD2	2.16	0.45
46:DJ:208:TYR:HE1	46:DJ:225:LEU:HD11	1.80	0.45
46:DJ:323:THR:HG21	45:DK:224:TYR:CE1	2.52	0.45
46:DL:310:TYR:HD2	46:DL:371:SER:HB2	1.81	0.45
46:DL:322:SER:OG	45:DM:221:ARG:HD2	2.15	0.45
46:EB:87:PRO:HA	46:EB:90:PHE:CE2	2.52	0.45
46:EB:318:ARG:HG2	46:EB:354:CYS:SG	2.56	0.45
46:ED:257:LEU:HD12	46:ED:312:THR:HG23	1.98	0.45
46:EJ:6:HIS:CE1	46:EJ:8:GLN:HB2	2.51	0.45
45:EK:174:SER:HA	45:EK:205:ASP:OD2	2.15	0.45
46:EL:259:PRO:HG2	46:EL:311:LEU:HD21	1.98	0.45
46:EN:210:ILE:O	46:EN:214:THR:OG1	2.30	0.45
45:FA:136:LEU:HD21	45:FA:138:PHE:CE1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FB:372:THR:HA	46:FB:422:TYR:HE2	1.81	0.45
46:FD:11:GLN:HA	46:FD:72:THR:HG21	1.97	0.45
45:FE:192:HIS:CD2	45:FE:421:ALA:HA	2.51	0.45
45:FE:256:GLN:O	46:FH:397:TRP:NE1	2.49	0.45
45:FI:172:TYR:OH	45:FI:191:THR:HG22	2.16	0.45
45:FI:212:ILE:HD11	45:FI:300:ASN:HA	1.98	0.45
45:FI:241:SER:OG	45:FI:250:VAL:O	2.30	0.45
45:FK:172:TYR:OH	45:FK:191:THR:HG22	2.16	0.45
45:FK:394:LYS:HE3	45:FK:394:LYS:HA	1.97	0.45
46:FL:321:MET:N	46:FL:321:MET:SD	2.90	0.45
46:FN:49:VAL:HG12	46:FN:50:TYR:CD1	2.52	0.45
46:GB:10:GLY:O	46:GB:14:ASN:ND2	2.50	0.45
45:GE:184:PRO:O	45:GE:188:ILE:HG12	2.16	0.45
46:GN:285:THR:HB	46:GN:287:PRO:HD2	1.98	0.45
45:HA:316:SER:HA	45:HA:352:LYS:HB3	1.98	0.45
45:HA:352:LYS:HZ1	46:HD:178:THR:HA	1.80	0.45
46:HB:282:ARG:NH2	46:HB:288:GLU:OE1	2.35	0.45
46:HD:207:LEU:HB3	46:HD:225:LEU:HD22	1.98	0.45
45:HI:296:PHE:HE2	45:HI:335:ILE:HG21	1.80	0.45
46:HJ:201:VAL:HG23	46:HJ:301:CYS:SG	2.56	0.45
45:HK:119:LEU:HD11	45:HK:160:ASP:OD2	2.17	0.45
45:HK:319:TYR:CE2	45:HK:328:VAL:HG22	2.51	0.45
46:HL:31:ASP:HB2	46:HL:32:PRO:HD2	1.98	0.45
46:IB:3:GLU:HG3	46:IB:62:ARG:NH1	2.31	0.45
46:IB:22:GLU:HG2	46:IB:81:PHE:CD1	2.51	0.45
46:IB:286:VAL:CG2	46:IB:287:PRO:HD3	2.46	0.45
45:IC:39:ASP:OD2	45:IC:40:LYS:N	2.49	0.45
46:ID:9:GLY:HA2	46:ID:66:MET:O	2.16	0.45
46:ID:306:ARG:HD2	46:ID:340:TYR:CZ	2.51	0.45
46:ID:380:ARG:HG3	46:ID:381:VAL:N	2.32	0.45
45:II:284:GLU:HG3	45:II:286:LEU:HD22	1.98	0.45
46:IJ:396:HIS:CD2	46:IJ:397:TRP:CD1	3.05	0.45
46:IL:163:ILE:HA	46:IL:197:ASP:OD1	2.17	0.45
46:IN:332:ASN:OD1	46:IN:336:LYS:HE3	2.17	0.45
46:JB:6:HIS:CE1	46:JB:8:GLN:HB3	2.52	0.45
45:JC:142:GLY:CA	45:JC:183:GLU:HG3	2.47	0.45
45:JC:250:VAL:HG13	45:JC:254:GLU:HB2	1.99	0.45
46:JL:166:THR:OG1	46:JL:199:CYS:HA	2.17	0.45
45:KA:88:HIS:HE2	45:KA:90:GLU:HG2	1.82	0.45
46:KB:5:VAL:HA	46:KB:62:ARG:HG3	1.99	0.45
45:KC:192:HIS:ND1	45:KC:424:ASP:OD1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:56:THR:OG1	45:LE:283:HIS:O	2.26	0.45
45:KE:342:GLN:OE1	45:KE:342:GLN:N	2.49	0.45
45:KG:172:TYR:HD1	45:KG:173:PRO:HD2	1.81	0.45
46:KN:12:CYS:SG	46:KN:169:VAL:HG21	2.56	0.45
45:LC:123:ARG:NH1	45:MC:338:LYS:HE2	2.31	0.45
46:LD:374:ILE:HG22	46:LD:422:TYR:CE2	2.51	0.45
45:LE:55:GLU:OE2	45:LE:56:THR:N	2.49	0.45
45:LE:223:THR:HG22	45:LE:224:TYR:N	2.30	0.45
46:LF:67:ASP:OD2	46:LF:68:LEU:N	2.50	0.45
46:LF:276:ARG:HG3	46:LF:276:ARG:HH11	1.81	0.45
46:LL:133:PHE:HB2	46:LL:164:MET:SD	2.56	0.45
46:LN:100:ASN:HB3	46:LN:103:LYS:HG3	1.98	0.45
45:MA:49:PHE:HE2	45:MA:55:GLU:HG2	1.81	0.45
45:MA:63:PRO:HG2	45:MA:87:PHE:CE2	2.50	0.45
46:MB:12:CYS:O	46:MB:16:ILE:HG12	2.17	0.45
46:MB:104:GLY:HA3	46:MB:143:THR:HA	1.98	0.45
46:MB:334:GLN:HA	46:MB:341:PHE:HE2	1.81	0.45
46:ML:167:PHE:CZ	46:ML:233:MET:HG3	2.51	0.45
45:MM:98:ASP:OD1	45:MM:99:ALA:N	2.49	0.45
46:MN:151:LEU:O	46:MN:155:VAL:HG22	2.15	0.45
46:MN:401:GLU:N	46:MN:401:GLU:OE2	2.50	0.45
46:NH:3:GLU:OE2	46:NH:127:CYS:HB2	2.17	0.45
46:NJ:262:ARG:NE	46:NJ:421:GLU:OE2	2.49	0.45
46:NN:309:ARG:HH21	46:NN:342:VAL:HA	1.81	0.45
46:NN:332:ASN:OD1	46:NN:333:VAL:N	2.49	0.45
46:NN:342:VAL:HG13	46:NN:345:ILE:HG22	1.99	0.45
46:OB:32:PRO:HA	46:OB:84:LEU:HD21	1.98	0.45
45:OE:221:ARG:HA	45:OE:221:ARG:HD2	1.78	0.45
46:OJ:253:LEU:O	46:OJ:257:LEU:HG	2.16	0.45
46:OJ:344:TRP:CE3	46:OJ:345:ILE:HG23	2.51	0.45
46:OL:118:ASP:O	46:OL:121:ARG:HG2	2.17	0.45
45:OM:3:GLU:N	45:OM:3:GLU:OE1	2.49	0.45
45:OM:174:SER:HB3	45:OM:207:GLU:OE1	2.16	0.45
45:PA:88:HIS:O	45:PA:91:GLN:HG2	2.16	0.45
45:PA:329:ASN:HB2	46:PD:175:VAL:HG12	1.98	0.45
45:PC:51:THR:HG23	45:PC:52:PHE:CD2	2.51	0.45
45:PC:214:ARG:HE	45:PC:215:ARG:NH1	2.15	0.45
45:PE:56:THR:HG23	45:PE:58:ALA:H	1.81	0.45
45:PG:60:LYS:HG2	45:PG:61:HIS:N	2.31	0.45
45:PI:171:ILE:HG23	45:PI:204:LEU:O	2.17	0.45
45:PI:200:VAL:HG13	45:PI:268:MET:CE	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PL:103:LYS:HE3	46:PL:103:LYS:HB2	1.62	0.45
46:PN:153:SER:HA	46:PN:195:ASN:HD22	1.81	0.45
46:QB:273:LEU:N	46:QB:292:GLN:HE22	2.13	0.45
45:QE:31:GLN:OE1	45:QE:37:PRO:HD3	2.16	0.45
45:QE:184:PRO:O	45:QE:188:ILE:HG12	2.17	0.45
45:QG:332:ILE:O	45:QG:335:ILE:HG12	2.17	0.45
46:QJ:239:CYS:HB2	46:QJ:316:LEU:HD11	1.98	0.45
46:QL:134:GLN:HA	46:QL:165:GLU:O	2.17	0.45
45:QM:109:THR:HB	45:QM:110:ILE:HD12	1.98	0.45
46:RD:255:VAL:HA	45:RE:407:TRP:CH2	2.51	0.45
46:RF:262:ARG:HG3	46:RF:263:LEU:HD12	1.98	0.45
46:RH:167:PHE:CZ	46:RH:200:MET:HG3	2.51	0.45
45:RI:31:GLN:HE21	45:RI:35:GLN:HB3	1.81	0.45
46:SB:23:VAL:HG21	46:SB:230:SER:HB3	1.98	0.45
45:SE:127:ASP:OD1	45:SE:128:ASN:N	2.50	0.45
45:SG:387:VAL:HA	45:SG:390:ARG:HG2	1.98	0.45
45:SK:124:LYS:HA	45:SK:124:LYS:HD3	1.79	0.45
46:SL:342:VAL:HG13	46:SL:345:ILE:HG22	1.97	0.45
45:TA:244:PHE:HB2	45:TA:356:ASN:HD21	1.80	0.45
45:TC:268:MET:HB2	45:TC:379:SER:O	2.15	0.45
46:TD:253:LEU:HA	46:TD:350:LYS:HZ1	1.82	0.45
45:TE:151:SER:O	45:TE:155:GLU:OE1	2.34	0.45
45:TG:49:PHE:HD1	45:TG:53:PHE:HB2	1.82	0.45
45:TG:68:LEU:HD13	45:TG:93:ILE:HB	1.98	0.45
46:TJ:267:MET:HB2	46:TJ:299:MET:HE2	1.97	0.45
45:TK:248:LEU:HD12	45:TK:355:ILE:HD12	1.97	0.45
46:TL:164:MET:N	46:TL:197:ASP:OD2	2.50	0.45
46:TL:393:ALA:HB1	46:TL:394:PHE:HD1	1.81	0.45
45:UC:31:GLN:HG3	45:UC:37:PRO:HD3	1.98	0.45
46:UD:324:LYS:HE3	45:UE:210:TYR:CD1	2.51	0.45
46:UD:372:THR:HA	46:UD:422:TYR:CE2	2.48	0.45
45:UE:174:SER:HB2	45:UE:177:VAL:HB	1.98	0.45
46:UF:238:CYS:SG	46:UF:239:CYS:N	2.90	0.45
46:UH:41:ASP:OD1	46:UH:42:LEU:HD12	2.17	0.45
45:UI:32:PRO:HB3	45:UI:83:TYR:CE1	2.51	0.45
45:UI:254:GLU:HG2	46:UJ:98:GLY:HA2	1.98	0.45
46:UJ:46:ARG:NH1	46:UJ:240:LEU:O	2.46	0.45
45:UM:88:HIS:O	45:UM:91:GLN:HG2	2.16	0.45
45:UM:256:GLN:OE1	46:UN:397:TRP:NE1	2.49	0.45
45:UM:326:LYS:HB3	46:UN:208:TYR:HE2	1.80	0.45
45:VE:298:PRO:O	45:VE:301:MET:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VE:332:ILE:HD11	45:VE:351:PHE:CG	2.52	0.45
45:VG:242:LEU:HD11	45:VG:252:ILE:HG23	1.98	0.45
46:VJ:68:LEU:HB3	46:VJ:96:GLY:HA2	1.98	0.45
46:VJ:260:PHE:HB3	46:VJ:262:ARG:NH2	2.31	0.45
45:VK:254:GLU:O	45:VK:255:PHE:HD2	2.00	0.45
45:WA:185:TYR:HA	45:WA:395:PHE:HE1	1.80	0.45
45:WA:231:ILE:O	45:WA:235:ILE:HG12	2.16	0.45
46:WB:77:ARG:HH21	46:WB:83:GLN:NE2	2.09	0.45
46:WB:304:ASP:HB3	46:WB:307:HIS:ND1	2.31	0.45
46:WD:229:VAL:O	46:WD:233:MET:HG2	2.17	0.45
45:WE:214:ARG:HG2	45:WE:214:ARG:HH11	1.81	0.45
46:WJ:97:ALA:O	46:WJ:103:LYS:HE2	2.16	0.45
45:WK:203:MET:HG3	45:WK:384:ILE:HD11	1.99	0.45
46:WL:23:VAL:O	46:WL:27:GLU:OE1	2.34	0.45
46:WN:344:TRP:HB3	46:WN:430:ALA:HB2	1.99	0.45
45:DC:37:PRO:O	45:DC:38:SER:OG	2.27	0.45
23:1O:278:ARG:NH2	45:UA:221:ARG:H	2.14	0.45
25:1R:458:ILE:CG1	46:FD:276:ARG:HH12	2.26	0.45
23:3O:373:ARG:NH1	45:UI:282:TYR:H	2.14	0.45
25:3R:181:PHE:CE2	46:AN:80:PRO:HB3	2.51	0.45
35:4S:162:LEU:HD13	35:4S:165:ILE:HD11	1.98	0.45
35:4S:180:VAL:HA	35:4S:183:TYR:CZ	2.51	0.45
37:5E:148:GLN:O	37:5E:151:GLU:HG3	2.16	0.45
37:5F:11:TRP:HB3	37:5F:14:ARG:NH1	2.32	0.45
37:5F:45:PRO:C	37:5F:48:ARG:HH22	2.19	0.45
37:5F:60:TRP:CZ3	46:OF:279:GLN:HG2	2.51	0.45
37:5G:164:LYS:H	37:5G:165:PRO:HD3	1.82	0.45
37:5H:60:TRP:HA	46:ON:279:GLN:NE2	2.31	0.45
10:5Q:9:GLY:C	10:5Q:10:PHE:HD1	2.19	0.45
35:5S:162:LEU:HD23	35:5S:217:LEU:HB3	1.98	0.45
41:6H:323:TYR:HB2	41:6H:324:ARG:HD3	1.97	0.45
34:6R:534:HIS:CE1	34:6R:578:TYR:HH	2.33	0.45
44:8R:180:TYR:OH	45:PG:282:TYR:HB2	2.17	0.45
46:AB:156:ARG:NH1	46:AB:162:ARG:O	2.47	0.45
45:AC:115:VAL:O	45:AC:119:LEU:HD23	2.16	0.45
45:AC:282:TYR:O	45:MC:60:LYS:NZ	2.49	0.45
45:AM:276:ILE:HD12	45:AM:281:ALA:HA	1.98	0.45
45:BA:340:THR:HG23	45:BA:341:ILE:HG13	1.98	0.45
45:BC:326:LYS:CE	46:BF:219:THR:HA	2.44	0.45
46:BD:398:TYR:O	46:BD:403:MET:HB2	2.16	0.45
45:BE:88:HIS:ND1	45:BE:90:GLU:HG3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BG:210:TYR:CE1	46:BH:324:LYS:HE3	2.52	0.45
45:BK:151:SER:O	45:BK:155:GLU:OE1	2.34	0.45
45:BK:397:LEU:HD23	46:BL:346:PRO:HD3	1.98	0.45
46:BL:252:LYS:O	46:BL:256:ASN:ND2	2.50	0.45
46:BN:214:THR:CG2	46:BN:297:LYS:HE2	2.47	0.45
45:CA:67:PHE:HB2	45:CA:92:LEU:HG	1.99	0.45
46:CB:317:PHE:CE1	46:CB:326:VAL:HG13	2.52	0.45
45:CC:326:LYS:HG3	45:CC:327:ASP:N	2.30	0.45
45:CG:154:LEU:HD22	45:CG:166:LYS:HD3	1.98	0.45
46:CH:350:LYS:HD3	46:CH:351:SER:N	2.31	0.45
45:CI:335:ILE:HD13	45:CI:338:LYS:HE3	1.98	0.45
45:CI:353:VAL:HG22	46:CJ:177:ASP:HB2	1.98	0.45
46:CN:282:ARG:NH2	46:CN:292:GLN:OE1	2.45	0.45
46:DB:73:MET:HA	46:DB:76:VAL:HG12	1.98	0.45
45:DI:174:SER:OG	45:DI:207:GLU:OE1	2.34	0.45
45:DM:208:ALA:O	45:DM:212:ILE:HG12	2.16	0.45
46:EB:200:MET:HE2	46:EB:266:PHE:HB2	1.99	0.45
45:EC:329:ASN:HA	45:EC:332:ILE:HG12	1.98	0.45
46:EF:330:MET:HA	46:EF:333:VAL:HG12	1.98	0.45
45:EG:73:THR:O	45:EG:76:ASP:HB2	2.17	0.45
46:EH:293:MET:HG2	46:EH:365:VAL:HG11	1.98	0.45
46:EH:372:THR:HA	46:EH:422:TYR:HE2	1.81	0.45
45:EI:31:GLN:HG3	45:EI:33:ASP:H	1.81	0.45
46:EL:324:LYS:O	46:EL:327:ASP:N	2.50	0.45
45:FA:270:SER:HB2	45:FA:378:ILE:CD1	2.47	0.45
46:FD:113:ILE:HA	46:FD:116:VAL:HG12	1.97	0.45
46:FD:268:ILE:HG22	46:FD:368:VAL:HG22	1.97	0.45
46:FD:321:MET:N	46:FD:321:MET:SD	2.90	0.45
45:FE:107:HIS:ND1	45:FE:107:HIS:O	2.50	0.45
45:FE:326:LYS:HE3	46:FH:220:PRO:HD2	1.99	0.45
46:FF:210:ILE:O	46:FF:214:THR:HG22	2.16	0.45
45:FG:221:ARG:CZ	46:FH:322:SER:H	2.30	0.45
46:FH:11:GLN:O	46:FH:15:GLN:HG2	2.15	0.45
45:FK:68:LEU:HD21	45:FK:118:CYS:SG	2.57	0.45
46:FL:7:ILE:CG2	46:FL:135:ILE:HG13	2.47	0.45
46:FN:238:CYS:SG	46:FN:239:CYS:N	2.90	0.45
45:GA:430:LYS:O	45:GA:433:GLU:HG3	2.17	0.45
45:GE:280:LYS:HA	45:GE:283:HIS:HD2	1.82	0.45
46:GF:391:ARG:HA	46:GF:391:ARG:HD2	1.73	0.45
46:GH:395:LEU:O	46:GH:399:THR:HG23	2.15	0.45
46:GJ:60:VAL:HG21	46:HJ:281:TYR:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GL:324:LYS:O	46:GL:328:GLU:OE1	2.35	0.45
46:GN:312:THR:HG22	46:GN:370:ASN:HB3	1.97	0.45
45:HA:240:ALA:HA	45:HA:243:ARG:CZ	2.47	0.45
46:HB:303:ALA:HB2	46:HB:377:MET:HE1	1.96	0.45
45:HK:208:ALA:HB2	45:HK:304:LYS:HG3	1.97	0.45
46:HL:32:PRO:HB3	46:HL:81:PHE:HD2	1.81	0.45
46:HN:304:ASP:HB3	46:HN:307:HIS:HE1	1.81	0.45
45:IA:107:HIS:ND1	45:IA:107:HIS:O	2.50	0.45
46:IB:130:LEU:HD21	46:IB:133:PHE:HE1	1.81	0.45
45:IC:325:PRO:HG3	45:IC:355:ILE:HD13	1.98	0.45
46:ID:19:LYS:HD3	46:ID:226:ASN:HB2	1.97	0.45
46:ID:284:LEU:HB2	46:ID:362:LYS:NZ	2.31	0.45
46:IF:99:ASN:HA	46:IF:142:GLY:H	1.81	0.45
46:IN:45:GLU:HG3	46:IN:46:ARG:CD	2.47	0.45
46:JB:294:PHE:CD1	46:JB:333:VAL:HG21	2.51	0.45
45:JG:186:ASN:OD1	45:JG:408:TYR:OH	2.32	0.45
45:JG:404:PHE:CD1	46:JH:259:PRO:HA	2.50	0.45
45:JK:88:HIS:HB2	45:JK:91:GLN:HE21	1.81	0.45
45:KC:252:ILE:HD12	45:KC:252:ILE:H	1.81	0.45
45:KM:14:ILE:HD11	45:KM:69:ASP:HB2	1.98	0.45
46:LD:371:SER:O	46:LD:422:TYR:OH	2.21	0.45
45:LE:271:SER:HB3	45:LE:377:MET:HB3	1.97	0.45
45:LG:210:TYR:HB3	46:LH:324:LYS:NZ	2.32	0.45
45:LG:434:GLU:O	45:LG:437:ILE:HG12	2.17	0.45
46:LJ:372:THR:HA	46:LJ:422:TYR:HE2	1.81	0.45
46:LL:359:LYS:HB2	46:LL:359:LYS:HE2	1.63	0.45
46:LN:284:LEU:HD23	46:LN:284:LEU:HA	1.86	0.45
46:MB:179:VAL:HG23	46:MB:180:VAL:HG23	1.98	0.45
45:MC:311:LYS:N	45:MC:382:THR:OG1	2.50	0.45
46:MF:328:GLU:OE2	46:MF:329:GLN:HG2	2.16	0.45
46:MH:268:ILE:HG22	46:MH:368:VAL:HG22	1.99	0.45
46:MJ:51:TYR:HE2	46:MJ:61:PRO:HG3	1.82	0.45
46:MJ:156:ARG:NH1	46:MJ:160:PRO:HA	2.32	0.45
45:MK:174:SER:OG	45:MK:207:GLU:HG3	2.17	0.45
46:ML:273:LEU:H	46:ML:292:GLN:HE22	1.62	0.45
45:MM:101:ASN:N	46:MN:252:LYS:HZ3	2.14	0.45
46:NB:137:HIS:HE1	46:NB:166:THR:HB	1.82	0.45
46:ND:122:LYS:NZ	46:OD:291:GLN:HB3	2.31	0.45
46:ND:272:PRO:HG3	46:ND:284:LEU:HG	1.99	0.45
46:ND:342:VAL:HG13	46:ND:345:ILE:HG22	1.99	0.45
46:ND:379:LYS:O	46:ND:383:GLU:OE1	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NF:304:ASP:HB3	46:NF:307:HIS:ND1	2.32	0.45
45:NK:285:GLN:OE1	45:NK:373:ARG:NH2	2.48	0.45
45:NK:394:LYS:HZ2	46:NL:346:PRO:HG2	1.80	0.45
46:NL:9:GLY:HA3	46:NL:66:MET:SD	2.56	0.45
46:NN:19:LYS:HA	46:NN:22:GLU:OE2	2.15	0.45
46:NN:342:VAL:HG22	46:NN:344:TRP:CD1	2.52	0.45
45:OA:153:LEU:O	45:OA:157:LEU:HG	2.16	0.45
45:OE:285:GLN:HG3	45:OE:287:SER:HB2	1.98	0.45
45:OI:398:MET:CE	46:OJ:346:PRO:HD2	2.46	0.45
45:OK:152:LEU:O	45:OK:155:GLU:HG3	2.16	0.45
46:ON:239:CYS:SG	46:ON:247:ASN:HA	2.57	0.45
46:PD:232:ALA:HB1	46:PD:268:ILE:HD12	1.99	0.45
45:PI:209:ILE:HG21	45:PI:227:LEU:HG	1.97	0.45
46:PJ:19:LYS:NZ	46:PJ:227:HIS:HB2	2.31	0.45
45:PK:11:GLN:NE2	47:PK:501:GTP:O2A	2.38	0.45
45:PK:205:ASP:OD1	45:PK:303:ALA:HA	2.16	0.45
46:PL:350:LYS:HE2	46:PL:350:LYS:HA	1.99	0.45
45:PM:226:ASN:HA	45:PM:229:ARG:HD2	1.97	0.45
46:PN:238:CYS:SG	46:PN:239:CYS:N	2.90	0.45
45:QC:269:LEU:HD23	45:QC:379:SER:O	2.17	0.45
46:QD:167:PHE:CE2	46:QD:200:MET:HG3	2.52	0.45
46:QF:6:HIS:NE2	46:QF:8:GLN:HB3	2.32	0.45
46:QF:252:LYS:HA	45:QG:100:ALA:HB1	1.98	0.45
46:QH:341:PHE:HD2	46:QH:348:ASN:HD21	1.63	0.45
46:QH:375:GLN:HB2	46:QH:379:LYS:HZ2	1.81	0.45
45:QK:314:ALA:HB3	45:QK:380:ASN:OD1	2.15	0.45
46:QL:226:ASN:HA	46:QL:229:VAL:HG12	1.99	0.45
46:QL:266:PHE:CE2	46:QL:370:ASN:HB2	2.52	0.45
45:RC:76:ASP:HA	45:RC:79:ARG:HG2	1.99	0.45
46:RD:258:ILE:O	46:RD:258:ILE:HG13	2.16	0.45
45:RE:138:PHE:HD1	45:RE:169:PHE:HB2	1.81	0.45
45:RI:324:VAL:O	45:RI:328:VAL:HG23	2.17	0.45
46:RJ:31:ASP:OD1	46:RJ:37:HIS:ND1	2.49	0.45
45:RK:206:ASN:HB3	45:RK:210:TYR:CZ	2.51	0.45
46:RL:23:VAL:O	46:RL:27:GLU:OE1	2.33	0.45
46:RL:183:TYR:HE2	46:RL:394:PHE:HB2	1.82	0.45
46:RL:324:LYS:O	46:RL:327:ASP:OD1	2.35	0.45
45:SC:408:TYR:HB3	45:SC:413:MET:SD	2.56	0.45
45:SE:326:LYS:HG3	45:SE:327:ASP:N	2.32	0.45
46:SF:256:ASN:HD22	46:SF:350:LYS:CD	2.29	0.45
45:SG:7:ILE:HB	45:SG:137:VAL:HG12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SI:98:ASP:O	45:SI:105:ARG:NH1	2.50	0.45
45:SI:145:THR:HG22	47:SI:501:GTP:PG	2.57	0.45
46:SJ:32:PRO:HA	46:SJ:84:LEU:HD11	1.98	0.45
46:SJ:156:ARG:HH12	46:SJ:197:ASP:CG	2.19	0.45
46:TB:134:GLN:HB3	46:TB:165:GLU:OE2	2.15	0.45
46:TB:164:MET:O	46:TB:197:ASP:HB2	2.16	0.45
45:TE:103:PHE:HB3	45:TE:408:TYR:HE2	1.81	0.45
45:TE:184:PRO:O	45:TE:188:ILE:HG12	2.17	0.45
46:TF:213:ARG:O	46:TF:216:LYS:HE3	2.16	0.45
45:TI:311:LYS:N	45:TI:382:THR:OG1	2.49	0.45
46:TN:221:THR:HG23	46:TN:224:ASP:H	1.80	0.45
46:UB:164:MET:HE3	46:UB:165:GLU:H	1.81	0.45
46:UD:101:TRP:HB3	46:UD:398:TYR:CE1	2.49	0.45
45:UE:211:ASP:OD2	45:UE:304:LYS:NZ	2.42	0.45
46:UF:1:MET:N	46:UF:48:ASN:OD1	2.50	0.45
46:UF:296:ALA:HB3	46:UF:297:LYS:HZ2	1.80	0.45
45:UG:260:VAL:HG13	45:UG:265:ILE:O	2.16	0.45
45:UG:268:MET:HG3	45:UG:380:ASN:HB2	1.98	0.45
46:UH:276:ARG:HG2	46:UH:276:ARG:HH11	1.81	0.45
46:UJ:321:MET:HA	45:UK:221:ARG:NH2	2.18	0.45
45:UK:3:GLU:N	45:UK:133:GLN:OE1	2.37	0.45
46:UN:226:ASN:HA	46:UN:229:VAL:HG22	1.98	0.45
45:VA:3:GLU:HG3	45:VA:129:CYS:SG	2.57	0.45
46:VD:310:TYR:CD1	46:VD:371:SER:HB2	2.52	0.45
45:VE:175:PRO:HG3	45:VE:390:ARG:NH1	2.31	0.45
45:VE:207:GLU:HA	45:VE:210:TYR:CD2	2.50	0.45
45:VE:334:THR:HA	45:VE:337:THR:HG22	1.98	0.45
46:VF:123:GLU:OE1	46:VF:123:GLU:HA	2.16	0.45
45:VG:179:THR:HG22	46:VH:350:LYS:NZ	2.32	0.45
45:VG:414:GLU:OE2	45:VG:417:GLU:N	2.48	0.45
45:VK:286:LEU:HA	45:VK:290:GLU:OE2	2.17	0.45
46:VL:326:VAL:O	46:VL:330:MET:HG2	2.16	0.45
45:VM:403:ALA:HA	46:VN:260:PHE:CE1	2.47	0.45
46:VN:28:HIS:C	46:VN:43:GLN:HE21	2.20	0.45
46:VN:266:PHE:HE1	46:VN:370:ASN:HD22	1.64	0.45
46:VN:285:THR:HB	46:VN:287:PRO:HD2	1.97	0.45
45:WC:398:MET:HE3	46:WD:346:PRO:HD2	1.97	0.45
46:WJ:67:ASP:OD1	46:WJ:68:LEU:N	2.48	0.45
46:WL:47:ILE:HD12	46:WL:59:TYR:HE1	1.80	0.45
45:WM:175:PRO:C	45:WM:390:ARG:HH12	2.20	0.45
46:WN:421:GLU:HA	46:WN:424:GLN:HG2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0D:225:ARG:HH12	34:7R:589:MET:HE2	1.80	0.45
16:1B:1:MET:HG2	46:LD:359:LYS:HA	1.98	0.45
21:1L:555:LYS:HG2	46:BF:320:ARG:HH12	1.81	0.45
23:2O:373:ARG:HH22	45:VC:283:HIS:CD2	2.35	0.45
11:2S:275:TYR:HA	46:WJ:122:LYS:NZ	2.31	0.45
1:3A:36:ARG:HH11	46:MN:42:LEU:HD21	1.80	0.45
15:3X:45:GLN:HE22	45:MM:282:TYR:HB3	1.82	0.45
33:4F:8:TYR:CE2	45:GI:84:ARG:HB2	2.51	0.45
34:4R:107:PRO:HA	46:BH:360:GLY:HA3	1.97	0.45
15:4X:3:ARG:H	46:LL:75:SER:HB2	1.82	0.45
36:5C:32:ALA:O	36:5C:34:PHE:N	2.49	0.45
36:5C:54:ARG:HD3	36:5C:55:ALA:O	2.17	0.45
36:5C:146:VAL:HG11	45:NK:225:THR:HG21	1.99	0.45
36:5C:158:ASN:ND2	45:KK:386:GLU:OE2	2.38	0.45
37:5E:118:PRO:O	37:5E:124:TYR:OH	2.34	0.45
37:5F:129:ARG:NH2	37:5F:130:PRO:HD2	2.32	0.45
37:5F:179:TYR:CD1	45:KG:410:GLY:HA2	2.47	0.45
37:5G:120:GLU:OE1	37:5G:121:GLU:HG2	2.17	0.45
37:5H:85:GLN:OE1	37:5H:87:LEU:HG	2.17	0.45
34:5R:311:LYS:HA	34:5R:329:TYR:CE1	2.51	0.45
10:6Q:33:HIS:NE2	10:6Q:50:MET:HB3	2.31	0.45
34:6R:167:VAL:HG21	34:6R:201:PRO:HB3	1.97	0.45
46:AH:69:GLU:CD	46:AH:71:GLY:H	2.20	0.45
46:AH:290:THR:O	46:AH:293:MET:HB3	2.17	0.45
46:AL:199:CYS:HB3	46:AL:265:PHE:HD2	1.81	0.45
45:AM:2:ARG:HD3	45:AM:2:ARG:H	1.81	0.45
45:AM:321:GLY:HA3	45:AM:372:MET:O	2.16	0.45
46:BB:240:LEU:HD11	46:BB:250:LEU:HG	1.99	0.45
45:BE:251:ASP:OD1	45:BE:254:GLU:HG2	2.16	0.45
46:BF:391:ARG:HA	46:BF:391:ARG:HD2	1.76	0.45
45:BG:109:THR:HG22	45:BG:110:ILE:HG23	1.98	0.45
45:BI:88:HIS:ND1	45:BI:90:GLU:HG3	2.32	0.45
46:BJ:6:HIS:CD2	46:BJ:21:TRP:HE1	2.35	0.45
46:BJ:204:ASN:OD1	49:BJ:501:GDP:O2'	2.34	0.45
46:BL:3:GLU:HG3	46:BL:62:ARG:NH1	2.31	0.45
45:BM:51:THR:HG22	45:BM:52:PHE:CD2	2.51	0.45
45:BM:208:ALA:HB2	45:BM:304:LYS:N	2.32	0.45
46:BN:191:GLN:OE1	46:BN:191:GLN:N	2.49	0.45
46:CB:130:LEU:HD11	46:CB:133:PHE:CE2	2.52	0.45
45:CI:3:GLU:OE2	45:CI:129:CYS:HB2	2.16	0.45
46:CJ:137:HIS:NE2	46:CJ:168:SER:OG	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DD:326:VAL:HG12	46:DD:330:MET:HE3	1.99	0.45
45:DG:5:ILE:HB	45:DG:135:PHE:CD1	2.52	0.45
46:DH:174:LYS:N	46:DH:205:GLU:OE2	2.48	0.45
46:DL:6:HIS:O	46:DL:63:ALA:HA	2.17	0.45
46:EB:318:ARG:HB3	46:EB:358:PRO:HD3	1.98	0.45
45:EC:89:PRO:HG2	45:EC:90:GLU:OE1	2.16	0.45
45:EC:315:CYS:SG	45:EC:377:MET:HB2	2.56	0.45
46:ED:16:ILE:HD13	46:ED:226:ASN:OD1	2.17	0.45
45:EE:345:ASP:OD2	45:EE:346:TRP:N	2.50	0.45
46:EF:15:GLN:NE2	49:EF:501:GDP:C6	2.85	0.45
46:EF:22:GLU:HG2	46:EF:81:PHE:HD2	1.81	0.45
46:EL:12:CYS:SG	46:EL:138:SER:N	2.90	0.45
45:FC:135:PHE:HB2	45:FC:166:LYS:HG2	1.99	0.45
46:FD:143:THR:O	46:FD:147:MET:SD	2.75	0.45
45:FE:71:GLU:HB2	45:FE:98:ASP:HB2	1.98	0.45
45:FE:102:ASN:ND2	45:FE:105:ARG:HG3	2.32	0.45
45:FG:183:GLU:N	45:FG:184:PRO:HD2	2.31	0.45
46:FH:8:GLN:NE2	46:FH:14:ASN:HA	2.30	0.45
45:FK:395:PHE:CD1	45:FK:422:ARG:HD3	2.51	0.45
46:FL:254:ALA:O	46:FL:258:ILE:HG12	2.17	0.45
45:FM:8:HIS:HB2	45:FM:67:PHE:CD1	2.51	0.45
45:FM:101:ASN:HA	45:FM:144:GLY:H	1.81	0.45
45:FM:387:VAL:HA	45:FM:390:ARG:HG2	1.99	0.45
45:GA:179:THR:HG22	46:GB:350:LYS:HZ1	1.81	0.45
45:GA:265:ILE:HG22	45:GA:380:ASN:HD21	1.80	0.45
45:GA:401:LYS:HB2	45:GA:401:LYS:HE3	1.83	0.45
46:GD:114:ASP:O	46:GD:117:LEU:HG	2.16	0.45
45:GI:296:PHE:HE2	45:GI:335:ILE:HG21	1.82	0.45
45:GK:97:GLU:HG2	45:GK:105:ARG:HH22	1.82	0.45
45:GK:322:ASP:N	45:GK:322:ASP:OD2	2.46	0.45
46:GL:7:ILE:HG12	46:GL:64:ILE:HB	1.98	0.45
46:GL:288:GLU:O	46:GL:291:GLN:HG3	2.17	0.45
46:GN:116:VAL:HA	46:GN:119:VAL:HG12	1.99	0.45
45:HC:32:PRO:HB3	45:HC:83:TYR:CE1	2.51	0.45
46:HJ:6:HIS:NE2	46:HJ:8:GLN:HB3	2.31	0.45
46:HJ:105:HIS:CE1	46:HJ:150:LEU:HD12	2.50	0.45
45:HK:11:GLN:HE21	45:HK:15:GLN:NE2	2.15	0.45
45:IA:194:LEU:HB2	45:IA:198:THR:OG1	2.17	0.45
45:IE:19:ALA:HA	45:IE:22:GLU:OE1	2.16	0.45
46:IH:206:ALA:O	46:IH:210:ILE:HG12	2.17	0.45
46:IH:395:LEU:O	46:IH:399:THR:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IJ:341:PHE:HD2	46:IJ:348:ASN:HD21	1.65	0.45
46:IL:141:GLY:O	46:IL:145:SER:HB2	2.16	0.45
46:IN:165:GLU:HG2	46:IN:198:GLU:HB2	1.99	0.45
45:JA:318:MET:HB2	45:JA:376:CYS:SG	2.57	0.45
45:JG:245:ASP:OD2	45:JG:246:GLY:N	2.49	0.45
45:JI:210:TYR:HH	46:JJ:323:THR:HG1	1.63	0.45
45:JI:419:SER:O	45:JI:423:GLU:HG2	2.16	0.45
45:JK:294:SER:HA	45:JK:297:GLU:HG2	1.97	0.45
46:JL:217:LEU:HD23	46:JL:217:LEU:H	1.82	0.45
45:KA:4:VAL:HG12	45:KA:133:GLN:HB2	1.99	0.45
45:KA:370:LYS:HE2	45:KA:370:LYS:HA	1.99	0.45
45:KE:88:HIS:ND1	45:KE:89:PRO:HD2	2.31	0.45
45:KE:179:THR:O	46:KF:350:LYS:HA	2.16	0.45
45:KI:287:SER:H	45:KI:290:GLU:CD	2.19	0.45
45:KK:284:GLU:OE1	45:KK:286:LEU:HD22	2.15	0.45
46:KL:238:CYS:SG	46:KL:239:CYS:N	2.90	0.45
45:LA:263:PRO:HD3	46:LD:396:HIS:CE1	2.51	0.45
46:LB:8:GLN:OE1	46:LB:17:GLY:HA3	2.17	0.45
46:LD:257:LEU:HD12	46:LD:312:THR:OG1	2.16	0.45
45:LE:252:ILE:HD12	45:LE:252:ILE:H	1.82	0.45
45:LE:407:TRP:CZ3	46:LF:255:VAL:HA	2.51	0.45
46:LJ:10:GLY:O	46:LJ:14:ASN:ND2	2.41	0.45
45:LK:231:ILE:O	45:LK:235:ILE:HG12	2.17	0.45
45:MA:298:PRO:O	45:MA:301:MET:HG2	2.17	0.45
46:ML:68:LEU:HD23	46:ML:143:THR:OG1	2.16	0.45
46:ML:380:ARG:HA	46:ML:383:GLU:HG2	1.97	0.45
46:ML:395:LEU:HD21	46:ML:405:GLU:HG3	1.98	0.45
46:MN:161:ASP:OD2	46:MN:161:ASP:N	2.44	0.45
45:NA:180:ALA:HB3	45:NA:183:GLU:HB3	1.97	0.45
45:NA:192:HIS:HE1	45:NA:424:ASP:OD2	1.98	0.45
45:NA:396:ASP:HB2	45:NA:422:ARG:NH2	2.31	0.45
45:NC:241:SER:OG	45:NC:250:VAL:O	2.26	0.45
46:ND:263:LEU:HD22	46:ND:422:TYR:CD1	2.50	0.45
46:ND:293:MET:CE	46:ND:365:VAL:HG21	2.47	0.45
46:NF:254:ALA:O	46:NF:258:ILE:HG22	2.17	0.45
46:NJ:47:ILE:HG21	46:NJ:59:TYR:CD1	2.51	0.45
45:NM:121:ARG:HH11	45:NM:124:LYS:NZ	2.14	0.45
45:NM:405:VAL:O	45:NM:409:VAL:HG23	2.17	0.45
46:NN:324:LYS:O	46:NN:328:GLU:HG3	2.17	0.45
45:OG:331:SER:O	45:OG:335:ILE:HG12	2.17	0.45
45:OM:242:LEU:HD11	45:OM:252:ILE:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:60:LYS:HE3	45:PA:85:GLN:O	2.16	0.45
45:PA:434:GLU:O	45:PA:437:ILE:HG12	2.17	0.45
46:PB:28:HIS:C	46:PB:43:GLN:HE21	2.18	0.45
46:PB:289:LEU:HD11	46:PB:363:MET:HB3	1.96	0.45
46:PD:229:VAL:O	46:PD:233:MET:HG2	2.16	0.45
45:PG:328:VAL:O	45:PG:332:ILE:HG12	2.16	0.45
46:PH:3:GLU:OE1	46:PH:3:GLU:N	2.43	0.45
45:PK:200:VAL:HG23	45:PK:256:GLN:NE2	2.32	0.45
46:QB:101:TRP:HZ2	46:QB:191:GLN:NE2	2.14	0.45
46:QB:212:PHE:HB3	46:QB:213:ARG:NH2	2.32	0.45
46:QB:252:LYS:HA	45:QC:100:ALA:HB1	1.97	0.45
46:QB:258:ILE:HD11	45:QC:407:TRP:CZ2	2.51	0.45
46:QB:268:ILE:HG13	46:QB:300:MET:HE2	1.98	0.45
46:QH:130:LEU:HB3	46:QH:162:ARG:HE	1.81	0.45
46:QJ:284:LEU:HD11	46:QJ:362:LYS:HB3	1.98	0.45
45:QK:288:VAL:HA	45:QK:291:ILE:HG12	1.98	0.45
46:QL:21:TRP:CH2	46:QL:61:PRO:HB3	2.51	0.45
45:QM:328:VAL:HG11	45:QM:353:VAL:HG21	1.98	0.45
45:QM:377:MET:SD	45:QM:379:SER:HB3	2.57	0.45
45:RA:21:TRP:CZ2	45:RA:65:ALA:HB2	2.51	0.45
45:RE:195:LEU:HD21	45:RE:428:LEU:HD21	1.98	0.45
46:RF:251:ARG:HE	45:RG:105:ARG:HH22	1.65	0.45
46:RH:210:ILE:O	46:RH:214:THR:HG22	2.16	0.45
45:RI:121:ARG:NE	45:RI:121:ARG:HA	2.31	0.45
45:RK:107:HIS:ND1	45:RK:107:HIS:O	2.50	0.45
46:RL:350:LYS:NZ	46:RL:351:SER:O	2.43	0.45
45:RM:74:VAL:O	45:RM:78:VAL:HG23	2.16	0.45
45:RM:105:ARG:O	45:RM:109:THR:OG1	2.24	0.45
45:RM:185:TYR:O	45:RM:188:ILE:HG22	2.17	0.45
46:RN:372:THR:HA	46:RN:422:TYR:HE2	1.82	0.45
45:SA:140:SER:OG	47:SA:501:GTP:O2B	2.35	0.45
46:SB:253:LEU:HD22	46:SB:350:LYS:HZ3	1.82	0.45
45:SC:263:PRO:HD3	46:SD:396:HIS:CE1	2.51	0.45
46:SD:5:VAL:HG23	46:SD:7:ILE:HD11	1.98	0.45
45:SG:5:ILE:HB	45:SG:135:PHE:CD1	2.52	0.45
45:SG:93:ILE:HG22	45:SG:114:ILE:HD11	1.98	0.45
45:SK:333:ALA:O	45:SK:337:THR:HG23	2.17	0.45
46:TD:16:ILE:HD13	46:TD:226:ASN:OD1	2.17	0.45
46:TF:293:MET:CE	46:TF:367:PHE:HB2	2.46	0.45
45:TG:280:LYS:HA	45:TG:283:HIS:ND1	2.31	0.45
45:TK:274:PRO:HG3	45:TK:286:LEU:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:67:ASP:OD1	46:TL:68:LEU:N	2.48	0.45
46:TN:87:PRO:HA	46:TN:90:PHE:HD2	1.82	0.45
46:TN:201:VAL:HG23	46:TN:301:CYS:SG	2.57	0.45
45:UA:280:LYS:HD3	45:UA:280:LYS:HA	1.72	0.45
46:UB:113:ILE:HA	46:UB:116:VAL:HG22	1.99	0.45
46:UB:211:CYS:HA	46:UB:215:LEU:HD12	1.98	0.45
46:UB:226:ASN:HA	46:UB:229:VAL:HG22	1.98	0.45
46:UD:399:THR:HA	46:UD:403:MET:O	2.16	0.45
46:UH:179:VAL:HG23	46:UH:180:VAL:HG23	1.98	0.45
45:UI:19:ALA:HA	45:UI:22:GLU:OE1	2.16	0.45
45:UI:348:PRO:HD3	46:UJ:388:MET:CE	2.45	0.45
45:UK:70:LEU:HD13	45:UK:95:GLY:HA3	1.97	0.45
45:UK:221:ARG:N	45:UK:222:PRO:HD3	2.32	0.45
45:UM:422:ARG:HE	45:UM:423:GLU:HG3	1.81	0.45
46:VB:121:ARG:O	46:VB:124:ALA:N	2.50	0.45
46:VD:181:GLU:HB2	46:VD:182:PRO:HD3	1.99	0.45
45:VG:121:ARG:HD2	45:VG:121:ARG:HA	1.77	0.45
46:VJ:116:VAL:HA	46:VJ:119:VAL:HG12	1.97	0.45
46:VJ:326:VAL:O	46:VJ:330:MET:HG2	2.17	0.45
45:VK:8:HIS:HB2	45:VK:67:PHE:CD2	2.51	0.45
45:VK:183:GLU:N	45:VK:184:PRO:HD2	2.31	0.45
45:VK:210:TYR:CE2	46:VL:324:LYS:HB3	2.52	0.45
45:VK:430:LYS:HA	45:VK:433:GLU:HG3	1.99	0.45
46:VL:310:TYR:CD1	46:VL:371:SER:HB2	2.51	0.45
46:VN:377:MET:HG2	46:VN:380:ARG:HH21	1.82	0.45
45:WA:155:GLU:HB3	45:WA:156:ARG:NH2	2.32	0.45
45:WG:118:CYS:SG	45:WG:153:LEU:HD11	2.57	0.45
45:WM:5:ILE:HD12	45:WM:64:ARG:HD2	1.98	0.45
45:WM:121:ARG:HH21	45:WM:124:LYS:HD2	1.82	0.45
46:WN:282:ARG:NH2	46:WN:284:LEU:HA	2.31	0.45
45:DC:17:GLY:HA2	45:DC:20:CYS:SG	2.56	0.45
7:0G:101:TYR:CE2	46:JN:40:SER:HB3	2.51	0.45
9:0N:246:THR:HG22	45:KK:47:ASP:HA	1.99	0.45
10:0Q:17:ILE:HA	46:WB:125:GLU:OE2	2.16	0.45
14:0V:24:ARG:NH2	45:MM:430:LYS:HA	2.31	0.45
3:1C:51:ASN:CA	45:EM:221:ARG:HH22	2.28	0.45
8:1H:300:GLU:OE1	45:GC:58:ALA:HB3	2.17	0.45
4:2D:20:LYS:NZ	46:CJ:55:THR:HA	2.31	0.45
31:2I:138:VAL:HA	46:GD:337:ASN:HD21	1.80	0.45
21:3L:163:ARG:NH2	45:BA:79:ARG:HG3	2.31	0.45
27:4C:227:GLY:HA2	45:KM:221:ARG:NH1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:4X:131:MET:HA	15:4X:134:THR:HG22	1.99	0.45
36:5A:27:LYS:HD2	36:5A:30:LYS:HD3	1.99	0.45
37:5E:91:ASN:OD1	37:5E:92:GLN:N	2.49	0.45
37:5F:85:GLN:OE1	37:5F:87:LEU:HG	2.16	0.45
10:5Q:97:LYS:O	10:5Q:99:VAL:N	2.46	0.45
34:5R:219:LYS:NZ	46:BL:75:SER:HB2	2.32	0.45
34:5R:285:THR:C	34:5R:306:ARG:HH22	2.20	0.45
41:6H:352:LYS:HD2	41:6H:353:ALA:H	1.82	0.45
34:6R:249:LEU:HA	45:CM:370:LYS:HZ2	1.82	0.45
44:8R:288:TYR:OH	45:PC:279:GLU:N	2.50	0.45
46:AJ:49:VAL:HG12	46:AJ:50:TYR:CD1	2.51	0.45
46:AL:16:ILE:HD13	46:AL:226:ASN:OD1	2.17	0.45
46:AN:31:ASP:OD2	46:AN:33:THR:OG1	2.34	0.45
45:BA:221:ARG:NE	46:BB:325:GLU:HB2	2.32	0.45
45:BC:56:THR:OG1	45:CC:282:TYR:O	2.34	0.45
45:BC:326:LYS:HB2	45:BC:326:LYS:HE2	1.75	0.45
46:BJ:60:VAL:HG11	46:BJ:86:ARG:HH21	1.81	0.45
46:BL:99:ASN:HA	46:BL:142:GLY:H	1.81	0.45
46:BL:391:ARG:HA	46:BL:391:ARG:HD2	1.75	0.45
46:CB:380:ARG:HG3	46:CB:381:VAL:N	2.32	0.45
45:CC:69:ASP:OD1	45:CC:70:LEU:N	2.49	0.45
45:CC:345:ASP:OD2	45:CC:346:TRP:N	2.50	0.45
46:CD:77:ARG:NH2	46:CD:83:GLN:OE1	2.46	0.45
46:CF:70:PRO:HA	46:CF:73:MET:SD	2.57	0.45
46:CF:386:THR:O	46:CF:390:ARG:HG2	2.16	0.45
46:CH:31:ASP:OD1	46:CH:35:THR:N	2.42	0.45
46:CJ:391:ARG:HA	46:CJ:391:ARG:HD2	1.81	0.45
46:CN:201:VAL:HG23	46:CN:301:CYS:SG	2.56	0.45
45:DA:171:ILE:HG23	45:DA:204:LEU:O	2.16	0.45
46:DD:247:ASN:ND2	45:DE:73:THR:HG21	2.31	0.45
45:DE:10:GLY:O	45:DE:14:ILE:HD12	2.16	0.45
46:DF:257:LEU:HD11	46:DF:314:SER:HB2	1.98	0.45
45:DG:141:VAL:HG11	45:DG:172:TYR:HA	1.98	0.45
45:DG:227:LEU:O	45:DG:231:ILE:HG12	2.16	0.45
45:DI:439:THR:HB	46:DJ:390:ARG:NH1	2.31	0.45
46:DL:165:GLU:HG2	46:DL:198:GLU:HB2	1.98	0.45
46:DL:226:ASN:HA	46:DL:229:VAL:HG22	1.98	0.45
46:DL:252:LYS:HA	45:DM:100:ALA:HB1	1.99	0.45
45:DM:145:THR:HG22	47:DM:501:GTP:PG	2.56	0.45
45:EA:346:TRP:CD1	46:EB:391:ARG:HG3	2.51	0.45
46:EB:6:HIS:O	46:EB:63:ALA:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EB:25:SER:HB3	46:EB:30:ILE:HB	1.98	0.45
45:EC:272:TYR:HD1	45:EC:376:CYS:HG	1.64	0.45
45:EE:101:ASN:HA	45:EE:144:GLY:H	1.81	0.45
46:EF:327:ASP:OD1	46:EF:328:GLU:N	2.49	0.45
45:EG:265:ILE:HG22	45:EG:380:ASN:HD21	1.81	0.45
45:EG:434:GLU:O	45:EG:437:ILE:HG22	2.17	0.45
46:EJ:345:ILE:HA	45:EK:398:MET:HE3	1.97	0.45
45:FA:183:GLU:N	45:FA:184:PRO:HD2	2.31	0.45
45:FC:84:ARG:HG3	45:FC:84:ARG:HH11	1.82	0.45
45:FC:260:VAL:HG23	46:FF:397:TRP:CZ2	2.52	0.45
46:FH:12:CYS:O	46:FH:16:ILE:HG12	2.16	0.45
46:FJ:83:GLN:O	46:GJ:281:TYR:OH	2.33	0.45
46:FN:101:TRP:CE3	46:FN:187:LEU:HD13	2.52	0.45
46:FN:389:PHE:HZ	46:FN:405:GLU:HB2	1.80	0.45
45:GA:174:SER:HB2	45:GA:177:VAL:O	2.16	0.45
46:GD:238:CYS:SG	46:GD:239:CYS:N	2.90	0.45
46:GD:317:PHE:CD1	46:GD:365:VAL:HG22	2.52	0.45
45:GK:284:GLU:HG2	45:GK:286:LEU:H	1.82	0.45
45:GK:348:PRO:HD3	46:GN:388:MET:HE3	1.97	0.45
45:GK:398:MET:HE2	46:GL:346:PRO:HD2	1.99	0.45
45:GM:322:ASP:OD1	45:GM:373:ARG:NH1	2.45	0.45
46:GN:117:LEU:HD13	46:GN:121:ARG:HH22	1.81	0.45
46:HB:257:LEU:HD11	46:HB:314:SER:HB2	1.98	0.45
46:HB:268:ILE:HG22	46:HB:368:VAL:HG12	1.98	0.45
46:HD:294:PHE:CE2	46:HD:333:VAL:HG11	2.52	0.45
45:HG:222:PRO:HG2	46:HH:324:LYS:HE2	1.99	0.45
45:HG:311:LYS:NZ	45:HG:342:GLN:HB3	2.31	0.45
46:HH:6:HIS:O	46:HH:63:ALA:HA	2.15	0.45
46:HJ:86:ARG:HB3	46:HJ:89:ASN:OD1	2.17	0.45
45:HK:224:TYR:HE2	46:HL:323:THR:HG21	1.81	0.45
46:HL:306:ARG:HB2	46:HL:340:TYR:HE2	1.81	0.45
46:HN:312:THR:HG22	46:HN:370:ASN:HB3	1.98	0.45
45:IC:329:ASN:O	45:IC:332:ILE:HG22	2.17	0.45
46:ID:39:ASP:OD2	46:ID:40:SER:N	2.50	0.45
45:IE:288:VAL:HA	45:IE:291:ILE:HG12	1.98	0.45
45:IK:276:ILE:HG12	45:IK:281:ALA:HB2	1.99	0.45
45:IK:377:MET:SD	45:IK:379:SER:HB3	2.57	0.45
46:JB:21:TRP:HA	46:JB:24:ILE:HG22	1.97	0.45
45:JC:175:PRO:HG2	45:JC:304:LYS:HG2	1.99	0.45
46:JD:21:TRP:CZ3	46:JD:61:PRO:HB3	2.51	0.45
46:JF:105:HIS:CE1	46:JF:150:LEU:HD12	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:222:TYR:HD2	49:JF:501:GDP:C6	2.35	0.45
46:JF:322:SER:OG	46:JF:325:GLU:OE2	2.32	0.45
45:JG:217:LEU:HB3	45:JG:219:ILE:HG12	1.97	0.45
45:JI:69:ASP:OD1	45:JI:70:LEU:N	2.49	0.45
46:JJ:161:ASP:OD1	46:JJ:162:ARG:HG2	2.17	0.45
46:JL:282:ARG:NH2	46:JL:288:GLU:OE1	2.48	0.45
46:JL:386:THR:O	46:JL:390:ARG:HG3	2.16	0.45
46:KB:322:SER:OG	46:KB:325:GLU:OE1	2.33	0.45
45:KG:185:TYR:CE2	45:KG:398:MET:HE3	2.52	0.45
45:KG:221:ARG:HA	46:KH:324:LYS:HE2	1.97	0.45
46:KH:52:ASN:OD1	46:KH:62:ARG:NH2	2.50	0.45
46:KH:289:LEU:HD13	46:KH:365:VAL:HG23	1.97	0.45
45:KI:68:LEU:HD13	45:KI:93:ILE:HB	1.98	0.45
46:KJ:389:PHE:CE1	46:KJ:395:LEU:HD11	2.52	0.45
45:KM:102:ASN:ND2	45:KM:105:ARG:HG3	2.32	0.45
45:LC:205:ASP:OD1	45:LC:206:ASN:N	2.50	0.45
45:LE:275:ILE:HG23	45:LE:275:ILE:O	2.17	0.45
45:LE:298:PRO:HB3	45:LE:307:PRO:HD2	1.98	0.45
46:LH:237:THR:HG23	46:LH:241:ARG:HH21	1.80	0.45
46:LL:222:TYR:HD2	49:LL:501:GDP:C6	2.34	0.45
45:LM:224:TYR:HD1	45:LM:227:LEU:HD12	1.82	0.45
45:MA:135:PHE:HB2	45:MA:166:LYS:HG2	1.99	0.45
45:MC:17:GLY:HA2	45:MC:20:CYS:SG	2.56	0.45
46:MD:207:LEU:HD13	46:MD:225:LEU:HB3	1.98	0.45
45:MK:326:LYS:HE3	46:MN:220:PRO:HG2	1.99	0.45
45:MM:88:HIS:CE1	45:MM:90:GLU:HG2	2.52	0.45
46:ND:372:THR:HA	46:ND:422:TYR:CE2	2.52	0.45
45:NE:3:GLU:OE2	45:NE:131:GLY:N	2.49	0.45
45:NE:259:LEU:HD21	45:NE:316:SER:OG	2.16	0.45
45:NG:237:SER:HA	45:NG:320:ARG:HH11	1.82	0.45
46:NJ:9:GLY:HA2	46:NJ:66:MET:O	2.17	0.45
45:NM:431:ASP:HA	45:NM:434:GLU:HG2	1.98	0.45
45:OA:200:VAL:HG13	45:OA:268:MET:HE2	1.98	0.45
45:OA:414:GLU:HB3	45:OA:417:GLU:OE1	2.16	0.45
46:OB:1:MET:HG3	46:OB:2:ARG:HG3	1.99	0.45
46:OB:119:VAL:O	46:OB:123:GLU:OE1	2.34	0.45
45:OC:320:ARG:HB2	45:OC:358:GLN:O	2.17	0.45
46:OD:379:LYS:O	46:OD:383:GLU:OE1	2.34	0.45
45:OG:350:GLY:HA2	46:OJ:179:VAL:HG23	1.98	0.45
45:OG:387:VAL:HA	45:OG:390:ARG:HG2	1.98	0.45
46:OJ:186:THR:HA	46:OJ:189:VAL:HG12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OK:188:ILE:HG21	45:OK:395:PHE:CD1	2.52	0.45
45:OK:191:THR:HG23	45:OK:425:LEU:HD21	1.99	0.45
46:OL:9:GLY:HA2	46:OL:66:MET:O	2.17	0.45
45:PA:201:ALA:HB3	45:PA:267:PHE:CD1	2.52	0.45
46:PB:163:ILE:HG21	46:PB:251:ARG:HB3	1.99	0.45
46:PH:170:VAL:HG11	46:PH:377:MET:HE1	1.98	0.45
45:PI:54:SER:HB3	45:PI:64:ARG:NH1	2.32	0.45
45:PI:167:LEU:HD22	45:PI:200:VAL:HB	1.99	0.45
46:PJ:3:GLU:CD	46:PJ:3:GLU:H	2.20	0.45
46:PJ:41:ASP:OD1	46:PJ:42:LEU:HD12	2.17	0.45
46:PL:22:GLU:OE1	46:PL:80:PRO:HB2	2.17	0.45
46:PL:201:VAL:HG23	46:PL:301:CYS:SG	2.57	0.45
46:PL:290:THR:HA	46:PL:293:MET:HG3	1.98	0.45
45:PM:209:ILE:HD13	45:PM:230:LEU:HD11	1.98	0.45
46:PN:8:GLN:HE22	46:PN:17:GLY:HA3	1.81	0.45
46:QB:378:PHE:HA	46:QB:381:VAL:HG12	1.98	0.45
45:QC:149:LEU:O	45:QC:153:LEU:HD23	2.17	0.45
45:QE:265:ILE:HG12	45:QE:432:TYR:HE1	1.82	0.45
45:QE:318:MET:HB2	45:QE:376:CYS:SG	2.56	0.45
45:QG:401:LYS:HB2	45:QG:401:LYS:HE2	1.73	0.45
46:QH:49:VAL:HG23	46:QH:50:TYR:HD2	1.81	0.45
45:QI:141:VAL:HG22	45:QI:187:SER:HA	1.98	0.45
45:QI:352:LYS:NZ	46:QJ:179:VAL:H	2.07	0.45
46:QJ:68:LEU:HD13	46:QJ:143:THR:OG1	2.16	0.45
46:QJ:254:ALA:O	46:QJ:258:ILE:HG12	2.16	0.45
46:QL:268:ILE:HG22	46:QL:368:VAL:HG22	1.98	0.45
46:QN:87:PRO:HA	46:QN:90:PHE:HD2	1.82	0.45
45:RC:188:ILE:HD13	45:RC:395:PHE:CD2	2.52	0.45
45:RC:419:SER:O	45:RC:422:ARG:N	2.50	0.45
46:RD:4:ILE:HG13	46:RD:132:GLY:O	2.17	0.45
45:RE:17:GLY:HA2	45:RE:20:CYS:SG	2.56	0.45
45:RE:326:LYS:HE2	46:RF:208:TYR:HD1	1.81	0.45
46:RF:4:ILE:HG13	46:RF:132:GLY:O	2.17	0.45
45:RI:93:ILE:HG22	45:RI:114:ILE:HD11	1.99	0.45
45:RM:188:ILE:HG13	45:RM:425:LEU:HD11	1.97	0.45
46:SB:247:ASN:ND2	45:SC:71:GLU:OE1	2.50	0.45
46:SB:315:ALA:HB1	46:SB:317:PHE:CE1	2.51	0.45
45:SC:51:THR:HG22	45:SC:52:PHE:CD1	2.51	0.45
45:SC:136:LEU:HD23	45:SC:167:LEU:HB2	1.98	0.45
45:SC:188:ILE:HD13	45:SC:422:ARG:HH22	1.81	0.45
45:SE:402:ARG:HD2	45:SE:405:VAL:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:288:GLU:O	46:SF:291:GLN:HG3	2.17	0.45
45:SG:252:ILE:HA	45:SG:255:PHE:HE2	1.82	0.45
45:SG:259:LEU:HD21	45:SG:380:ASN:HB2	1.98	0.45
46:SJ:46:ARG:HH22	45:SK:73:THR:HA	1.82	0.45
46:SL:379:LYS:HE3	46:SL:379:LYS:HA	1.99	0.45
46:SL:405:GLU:HA	46:SL:408:PHE:CD2	2.52	0.45
46:TB:148:GLY:O	46:TB:152:ILE:HG12	2.17	0.45
46:TD:287:PRO:HA	46:TD:290:THR:HG22	1.98	0.45
45:TE:326:LYS:HE2	46:TF:208:TYR:CD1	2.52	0.45
45:TE:329:ASN:O	45:TE:332:ILE:HG22	2.16	0.45
45:TG:336:LYS:HZ1	45:TG:349:THR:HA	1.82	0.45
46:TH:244:GLY:HA3	46:TH:354:CYS:HA	1.99	0.45
46:TN:34:GLY:HA3	46:TN:58:ARG:HG3	1.98	0.45
46:UD:270:PHE:HD2	46:UD:273:LEU:HD21	1.81	0.45
46:UF:252:LYS:HA	45:UG:100:ALA:HB1	1.99	0.45
46:UF:274:THR:OG1	46:UF:278:SER:OG	2.16	0.45
46:UH:284:LEU:HD23	46:UH:362:LYS:HB2	1.98	0.45
45:UK:111:GLY:HA2	45:UK:114:ILE:HD13	1.98	0.45
45:UK:307:PRO:HG2	45:UK:308:ARG:HD3	1.99	0.45
45:UM:258:ASN:HD21	46:UN:178:THR:HG23	1.82	0.45
46:VB:285:THR:OG1	46:VB:288:GLU:OE1	2.24	0.45
46:VB:286:VAL:HG12	46:VB:329:GLN:OE1	2.17	0.45
45:VG:203:MET:HG3	45:VG:384:ILE:HD11	1.98	0.45
46:VH:372:THR:HA	46:VH:422:TYR:CE2	2.52	0.45
45:VM:88:HIS:HB3	45:VM:91:GLN:HG2	1.98	0.45
45:VM:387:VAL:HA	45:VM:390:ARG:HG2	1.99	0.45
46:VN:200:MET:HB3	46:VN:268:ILE:HD11	1.98	0.45
45:WC:118:CYS:O	45:WC:122:ILE:HG12	2.16	0.45
46:WF:73:MET:HG2	46:WF:90:PHE:HD1	1.81	0.45
46:WF:113:ILE:HD13	46:WF:150:LEU:HD22	1.97	0.45
45:WI:152:LEU:HD23	45:WI:155:GLU:OE2	2.17	0.45
45:WK:67:PHE:HB2	45:WK:92:LEU:HD13	1.99	0.45
45:WK:221:ARG:O	45:WK:221:ARG:HG2	2.16	0.45
46:WN:288:GLU:HA	46:WN:291:GLN:HG3	1.99	0.45
46:WN:313:ALA:HB1	46:WN:367:PHE:HE1	1.81	0.45
45:CE:36:MET:SD	45:CE:37:PRO:HD2	2.57	0.45
1:0A:136:ASN:HD22	46:AB:245:GLN:HE22	1.64	0.45
3:1C:80:ARG:NH1	46:EL:359:LYS:HA	2.32	0.45
19:1J:262:VAL:H	45:II:370:LYS:HZ1	1.65	0.45
21:1L:658:ARG:HB2	46:BF:45:GLU:OE2	2.16	0.45
23:1O:264:ILE:O	45:UA:282:TYR:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:1:MET:HB2	45:IA:96:LYS:N	2.30	0.45
25:2R:504:GLU:OE1	45:EG:39:ASP:HA	2.17	0.45
26:2W:189:ARG:HG3	45:KM:47:ASP:CG	2.36	0.45
34:4R:203:ARG:NH2	34:4R:204:VAL:O	2.40	0.45
35:4S:187:LEU:HB2	35:4S:240:MET:HG2	1.98	0.45
37:5F:111:ASN:HB3	46:NF:44:LEU:HD22	1.98	0.45
35:5S:93:PRO:HG2	35:5S:130:ARG:HH21	1.82	0.45
35:5S:192:MET:HG2	46:AH:424:GLN:CG	2.45	0.45
40:6G:275:TYR:N	40:6G:276:PRO:HD2	2.32	0.45
34:7R:206:ASN:ND2	34:7R:210:GLU:OE2	2.50	0.45
44:8R:361:UNK:C	46:OB:56:GLY:HA2	2.47	0.45
46:AB:260:PHE:HB2	46:AB:263:LEU:HD13	1.99	0.45
45:AC:98:ASP:OD1	45:AC:99:ALA:N	2.49	0.45
46:AD:45:GLU:O	46:AD:46:ARG:HD3	2.16	0.45
46:AD:288:GLU:O	46:AD:291:GLN:HG3	2.17	0.45
46:AF:334:GLN:OE1	46:AF:347:ASN:HA	2.17	0.45
45:AG:237:SER:HA	45:AG:320:ARG:HH11	1.82	0.45
45:AI:372:MET:N	45:AI:372:MET:SD	2.89	0.45
45:AK:287:SER:O	45:AK:290:GLU:HG3	2.17	0.45
46:BD:316:LEU:HB2	46:BD:366:THR:HG22	1.99	0.45
45:BK:107:HIS:ND1	45:BK:107:HIS:O	2.49	0.45
45:BK:377:MET:SD	45:BK:379:SER:HB3	2.56	0.45
45:BM:5:ILE:HD13	45:BM:135:PHE:HE1	1.81	0.45
45:CA:226:ASN:OD1	45:CA:227:LEU:N	2.49	0.45
45:CA:268:MET:SD	45:CA:380:ASN:HB2	2.57	0.45
45:CC:107:HIS:ND1	45:CC:107:HIS:O	2.49	0.45
45:CC:252:ILE:HA	45:CC:255:PHE:HD1	1.82	0.45
45:CG:128:ASN:C	45:CG:128:ASN:HD22	2.18	0.45
45:CI:136:LEU:HD22	45:CI:169:PHE:HE2	1.82	0.45
45:DA:19:ALA:HA	45:DA:22:GLU:OE1	2.16	0.45
45:DE:121:ARG:HH12	45:DE:124:LYS:HD2	1.82	0.45
45:DE:208:ALA:HB2	45:DE:304:LYS:HB2	1.99	0.45
46:DF:318:ARG:NH1	46:DF:358:PRO:HG3	2.32	0.45
45:DG:14:ILE:O	45:DG:18:ASN:ND2	2.48	0.45
46:DJ:284:LEU:HD12	46:DJ:284:LEU:O	2.17	0.45
45:DK:205:ASP:OD1	45:DK:206:ASN:N	2.49	0.45
45:DM:224:TYR:CD2	45:DM:227:LEU:HD12	2.52	0.45
45:EC:244:PHE:CE1	45:EC:358:GLN:HG3	2.52	0.45
45:EG:35:GLN:OE1	45:EG:60:LYS:HB3	2.17	0.45
45:EK:206:ASN:OD1	47:EK:501:GTP:N2	2.49	0.45
45:EM:93:ILE:HG22	45:EM:114:ILE:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EN:221:THR:HG23	46:EN:224:ASP:H	1.81	0.45
45:FA:222:PRO:HD2	46:FB:324:LYS:HD3	1.98	0.45
46:FD:113:ILE:HD13	46:FD:150:LEU:HD22	1.97	0.45
46:FD:207:LEU:HA	46:FD:210:ILE:HG12	1.98	0.45
45:FE:370:LYS:HA	45:FE:370:LYS:HD3	1.60	0.45
46:FF:11:GLN:O	46:FF:15:GLN:HG2	2.15	0.45
46:FF:318:ARG:HD3	46:FF:358:PRO:HD3	1.99	0.45
46:FH:16:ILE:HD13	46:FH:226:ASN:OD1	2.17	0.45
46:FH:212:PHE:HB3	46:FH:213:ARG:NH1	2.32	0.45
45:FK:71:GLU:OE2	46:FL:2:ARG:NH2	2.50	0.45
46:FL:260:PHE:HB2	46:FL:263:LEU:CD1	2.47	0.45
45:GE:21:TRP:HZ2	45:GE:65:ALA:HB2	1.82	0.45
46:GF:173:PRO:HG2	46:GF:380:ARG:HE	1.81	0.45
46:GH:105:HIS:CE1	46:GH:150:LEU:HD12	2.51	0.45
45:GI:317:MET:HE3	45:GI:317:MET:HB3	1.90	0.45
46:GJ:86:ARG:HD3	46:HJ:281:TYR:CD2	2.52	0.45
46:GJ:200:MET:HG3	46:GJ:266:PHE:HB2	1.99	0.45
46:GJ:342:VAL:HG13	46:GJ:345:ILE:HG22	1.98	0.45
45:GM:147:SER:HB2	45:GM:190:SER:HB3	1.99	0.45
45:GM:224:TYR:CE2	46:GN:246:LEU:HD11	2.51	0.45
46:GN:20:PHE:HA	46:GN:230:SER:OG	2.17	0.45
46:GN:258:ILE:HG13	46:GN:266:PHE:HZ	1.82	0.45
46:HD:304:ASP:OD1	46:HD:306:ARG:NH2	2.50	0.45
46:HF:342:VAL:HG13	46:HF:345:ILE:HG22	1.99	0.45
46:HN:202:ILE:HD11	46:HN:268:ILE:HD11	1.99	0.45
46:IB:83:GLN:NE2	46:IB:84:LEU:HD22	2.27	0.45
46:IB:290:THR:HA	46:IB:293:MET:HG2	1.99	0.45
45:IC:263:PRO:HD3	46:IF:396:HIS:CE1	2.52	0.45
46:ID:238:CYS:SG	46:ID:318:ARG:NE	2.90	0.45
45:IE:254:GLU:OE1	46:IH:99:ASN:ND2	2.49	0.45
46:IL:318:ARG:NE	46:IL:356:ILE:O	2.37	0.45
45:IM:93:ILE:HD11	45:IM:121:ARG:HG3	1.99	0.45
45:JA:76:ASP:OD1	45:JA:77:GLU:N	2.50	0.45
46:JL:323:THR:HG22	46:JL:353:ILE:HD12	1.98	0.45
45:JM:414:GLU:OE2	45:JM:417:GLU:N	2.49	0.45
46:JN:51:TYR:HB3	46:JN:59:TYR:HB3	1.98	0.45
46:KB:375:GLN:HB2	46:KB:419:VAL:HG23	1.99	0.45
45:LC:217:LEU:HD12	45:LC:367:ASP:HB3	1.99	0.45
45:LC:292:THR:HG21	45:LC:331:SER:HB2	1.99	0.45
45:LE:73:THR:HB	46:LF:247:ASN:HD21	1.81	0.45
46:LL:286:VAL:HG21	46:LL:325:GLU:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LM:172:TYR:HD2	45:LM:173:PRO:HD2	1.81	0.45
45:MC:31:GLN:NE2	45:MC:35:GLN:HB2	2.31	0.45
45:MG:115:VAL:HG21	45:MG:152:LEU:CD2	2.47	0.45
45:MG:259:LEU:HD11	45:MG:316:SER:HB3	1.97	0.45
46:MJ:293:MET:HE3	46:MJ:367:PHE:CD1	2.50	0.45
45:MK:428:LEU:HG	45:MK:432:TYR:HE2	1.81	0.45
46:MN:6:HIS:NE2	46:MN:8:GLN:OE1	2.50	0.45
45:NC:288:VAL:HA	45:NC:291:ILE:HG12	1.98	0.45
46:ND:289:LEU:HD11	46:ND:365:VAL:HG12	1.99	0.45
46:ND:307:HIS:ND1	46:ND:376:GLU:OE2	2.43	0.45
45:NE:258:ASN:CB	45:NE:352:LYS:HZ2	2.29	0.45
46:NH:321:MET:N	46:NH:321:MET:SD	2.89	0.45
45:NI:2:ARG:HD3	45:NI:2:ARG:H	1.82	0.45
45:NI:208:ALA:O	45:NI:212:ILE:HG12	2.17	0.45
46:NJ:117:LEU:HA	46:NJ:120:VAL:HG12	1.98	0.45
46:NL:116:VAL:HA	46:NL:119:VAL:HG12	1.99	0.45
45:OA:102:ASN:N	45:OA:144:GLY:HA3	2.32	0.45
45:OA:156:ARG:HG2	45:OA:156:ARG:HH11	1.82	0.45
45:OA:263:PRO:HD3	46:OD:396:HIS:CD2	2.51	0.45
46:OB:304:ASP:HB3	46:OB:307:HIS:ND1	2.32	0.45
45:OC:332:ILE:O	45:OC:336:LYS:HG2	2.16	0.45
45:OE:21:TRP:CZ2	45:OE:65:ALA:HB2	2.52	0.45
45:OE:177:VAL:HG13	46:OF:327:ASP:HB3	1.98	0.45
46:OF:200:MET:HE1	46:OF:268:ILE:HG23	1.97	0.45
45:OK:387:VAL:HA	45:OK:390:ARG:HG2	1.99	0.45
45:OM:319:TYR:HB3	45:OM:323:VAL:HG21	1.98	0.45
46:ON:24:ILE:HA	46:ON:27:GLU:OE2	2.17	0.45
45:PA:180:ALA:HA	46:PB:350:LYS:HZ2	1.81	0.45
45:PA:226:ASN:OD1	45:PA:227:LEU:N	2.49	0.45
45:PE:390:ARG:HG3	45:PE:391:LEU:HD12	1.98	0.45
45:PG:152:LEU:O	45:PG:155:GLU:HG3	2.16	0.45
45:PG:271:SER:HB2	45:PG:377:MET:HB3	1.98	0.45
45:PG:311:LYS:HD2	45:PG:343:PHE:C	2.37	0.45
46:PH:256:ASN:OD1	46:PH:257:LEU:HG	2.16	0.45
46:PJ:240:LEU:HD12	46:PJ:249:ASP:HB2	1.99	0.45
45:PK:324:VAL:HG11	45:PK:326:LYS:NZ	2.31	0.45
45:PM:21:TRP:CZ2	45:PM:65:ALA:HB2	2.52	0.45
45:PM:88:HIS:HB3	45:PM:91:GLN:HG2	1.99	0.45
45:PM:147:SER:HB2	45:PM:190:SER:HB3	1.98	0.45
46:QB:100:ASN:HB3	46:QB:103:LYS:HB3	1.99	0.45
45:QC:231:ILE:O	45:QC:235:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QD:417:ASP:O	46:QD:421:GLU:HG3	2.16	0.45
46:QH:116:VAL:HA	46:QH:119:VAL:HG22	1.99	0.45
46:QH:174:LYS:HB2	46:QH:205:GLU:OE2	2.17	0.45
45:QI:265:ILE:HD11	45:QI:435:VAL:HG21	1.97	0.45
46:QJ:116:VAL:HA	46:QJ:119:VAL:HG22	1.98	0.45
46:QL:346:PRO:HG2	45:QM:394:LYS:NZ	2.32	0.45
45:QM:34:GLY:HA3	45:QM:60:LYS:HE2	1.97	0.45
45:QM:210:TYR:CZ	45:QM:227:LEU:HD11	2.51	0.45
46:QN:31:ASP:OD2	46:QN:37:HIS:ND1	2.50	0.45
46:QN:135:ILE:HG13	46:QN:152:ILE:HD11	1.99	0.45
46:RB:182:PRO:O	46:RB:186:THR:HG22	2.17	0.45
45:RC:141:VAL:HG12	45:RC:171:ILE:O	2.17	0.45
46:RD:118:ASP:O	46:RD:122:LYS:HG3	2.16	0.45
46:RD:239:CYS:HB3	46:RD:354:CYS:SG	2.57	0.45
46:RD:246:LEU:HD11	45:RE:224:TYR:HE2	1.82	0.45
46:RF:254:ALA:O	46:RF:258:ILE:HG12	2.16	0.45
45:RG:284:GLU:HG2	45:RG:286:LEU:HD22	1.98	0.45
45:RI:7:ILE:HG22	45:RI:66:VAL:HG22	1.99	0.45
45:RK:98:ASP:OD1	45:RK:99:ALA:N	2.50	0.45
45:RK:211:ASP:OD1	45:RK:214:ARG:NE	2.49	0.45
46:RL:20:PHE:HB2	46:RL:233:MET:HE3	1.98	0.45
45:RM:121:ARG:HA	45:RM:121:ARG:CZ	2.47	0.45
45:SG:174:SER:HB2	45:SG:177:VAL:O	2.16	0.45
46:SJ:6:HIS:NE2	46:SJ:8:GLN:OE1	2.50	0.45
46:SJ:345:ILE:O	46:SJ:345:ILE:HG23	2.17	0.45
46:SJ:350:LYS:NZ	46:SJ:352:SER:OG	2.32	0.45
46:SL:60:VAL:HG23	46:SL:84:LEU:O	2.17	0.45
45:TC:136:LEU:HD23	45:TC:167:LEU:HB2	1.99	0.45
46:TF:131:GLN:O	46:TF:163:ILE:HG12	2.17	0.45
46:TF:221:THR:HG23	46:TF:224:ASP:H	1.81	0.45
45:TG:51:THR:HG22	45:TG:52:PHE:CD1	2.51	0.45
45:TK:28:HIS:CD2	45:TK:49:PHE:HB3	2.51	0.45
46:TL:186:THR:HG23	46:TL:415:MET:CE	2.46	0.45
45:TM:88:HIS:HB3	45:TM:91:GLN:OE1	2.17	0.45
45:UA:387:VAL:HA	45:UA:390:ARG:HG2	1.99	0.45
46:UB:139:LEU:HD22	46:UB:170:VAL:HG12	1.98	0.45
45:UC:399:TYR:O	45:UC:402:ARG:NH2	2.50	0.45
45:UE:49:PHE:HD1	45:UE:53:PHE:HB2	1.82	0.45
45:UE:352:LYS:NZ	46:UF:179:VAL:HG13	2.32	0.45
46:UH:391:ARG:HA	46:UH:391:ARG:HD2	1.77	0.45
46:UJ:294:PHE:CD1	46:UJ:333:VAL:HG11	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UK:280:LYS:HE3	45:UK:283:HIS:HB2	1.98	0.45
46:UL:12:CYS:O	46:UL:16:ILE:HG12	2.17	0.45
46:UL:20:PHE:CE1	46:UL:233:MET:HB3	2.51	0.45
46:UL:218:THR:HG23	46:UL:219:THR:HG23	1.98	0.45
45:UM:97:GLU:OE1	45:UM:98:ASP:N	2.50	0.45
46:UN:312:THR:HG22	46:UN:370:ASN:HB3	1.98	0.45
46:VD:45:GLU:C	46:VD:46:ARG:HD2	2.36	0.45
46:VD:86:ARG:HG3	46:WD:282:ARG:NH2	2.31	0.45
46:VH:198:GLU:HG2	46:VH:266:PHE:HE2	1.81	0.45
45:VI:88:HIS:O	45:VI:91:GLN:HG2	2.16	0.45
46:VL:406:MET:SD	46:VL:407:GLU:N	2.90	0.45
45:WA:90:GLU:OE1	45:WA:121:ARG:NH1	2.49	0.45
45:WA:208:ALA:O	45:WA:212:ILE:HG12	2.17	0.45
46:WB:207:LEU:HD22	46:WB:228:LEU:HD11	1.99	0.45
45:WC:166:LYS:HD2	45:WC:198:THR:HA	1.99	0.45
45:WG:280:LYS:HE3	45:WG:284:GLU:OE2	2.17	0.45
45:WI:17:GLY:HA2	45:WI:20:CYS:SG	2.56	0.45
45:WK:100:ALA:HB1	46:WL:252:LYS:HA	1.98	0.45
45:CE:2:ARG:HB2	45:CE:133:GLN:NE2	2.32	0.45
45:DC:19:ALA:O	45:DC:22:GLU:HG3	2.16	0.45
45:DC:332:ILE:HD13	45:DC:335:ILE:HD12	1.98	0.45
45:DC:385:ALA:HB2	45:DC:432:TYR:HD2	1.82	0.45
4:1D:177:THR:HG22	46:EF:48:ASN:OD1	2.17	0.45
24:1P:248:LYS:NZ	46:TF:280:GLN:HB2	2.31	0.45
15:1X:45:GLN:NE2	45:ME:282:TYR:HB3	2.32	0.45
1:2A:6:TYR:HB2	34:5R:9:VAL:O	2.16	0.45
29:2G:24:LEU:HD21	45:KG:330:ALA:HA	1.98	0.45
26:2W:243:ILE:HG21	34:6R:9:VAL:HB	1.98	0.45
13:3U:194:ARG:NH1	46:WN:78:ALA:O	2.49	0.45
14:3V:122:LYS:HE2	46:LD:390:ARG:NH1	2.27	0.45
34:4R:206:ASN:HB2	34:4R:210:GLU:OE1	2.16	0.45
36:5B:153:PHE:HE2	45:NG:365:GLY:N	2.15	0.45
37:5E:212:THR:HG22	46:LF:391:ARG:HE	1.81	0.45
37:5F:27:ARG:HH12	46:OD:320:ARG:NH1	2.15	0.45
34:5R:291:LYS:HD3	34:5R:292:ARG:N	2.32	0.45
34:6R:362:GLN:HG2	34:6R:363:ASN:N	2.32	0.45
45:AA:333:ALA:O	45:AA:337:THR:HG23	2.16	0.45
45:AC:192:HIS:CD2	45:AC:421:ALA:HA	2.52	0.45
45:AC:283:HIS:ND1	45:MC:89:PRO:HD3	2.31	0.45
46:AF:180:VAL:HG12	46:AF:180:VAL:O	2.17	0.45
45:AG:104:ALA:HB2	45:AG:413:MET:HE2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AH:145:SER:HB2	46:AH:188:SER:HB3	1.98	0.45
46:AN:263:LEU:HD23	46:AN:263:LEU:HA	1.85	0.45
45:BA:21:TRP:CZ2	45:BA:65:ALA:HB2	2.52	0.45
46:BB:316:LEU:HB2	46:BB:366:THR:CG2	2.46	0.45
45:BG:222:PRO:HG2	46:BH:324:LYS:HG3	1.99	0.45
46:BH:154:LYS:HA	46:BH:157:GLU:OE1	2.17	0.45
46:BL:27:GLU:OE2	46:BL:241:ARG:NH2	2.50	0.45
45:CA:401:LYS:HE3	45:CA:401:LYS:HB2	1.73	0.45
45:CC:155:GLU:HA	45:CC:197:HIS:ND1	2.32	0.45
45:CG:296:PHE:CE2	45:CG:335:ILE:HG21	2.50	0.45
45:CI:171:ILE:HG23	45:CI:204:LEU:O	2.17	0.45
45:CI:387:VAL:O	45:CI:390:ARG:HG2	2.17	0.45
46:DD:175:VAL:O	46:DD:175:VAL:HG23	2.16	0.45
45:DI:14:ILE:HG23	45:DI:67:PHE:CD2	2.52	0.45
45:DI:174:SER:HB3	45:DI:177:VAL:O	2.16	0.45
45:DM:123:ARG:NH2	45:DM:161:TYR:HE1	2.14	0.45
46:DN:260:PHE:HB2	46:DN:263:LEU:HD13	1.97	0.45
46:EB:66:MET:SD	46:EB:116:VAL:HB	2.57	0.45
45:EG:3:GLU:O	45:EG:133:GLN:N	2.33	0.45
45:EI:419:SER:O	45:EI:423:GLU:HG2	2.16	0.45
46:EJ:258:ILE:HD11	45:EK:407:TRP:HZ2	1.82	0.45
46:EJ:395:LEU:O	46:EJ:399:THR:HG23	2.17	0.45
46:EL:36:TYR:CZ	46:EL:44:LEU:HD11	2.52	0.45
46:EL:226:ASN:HD21	49:EL:501:GDP:HN1	1.65	0.45
46:EL:258:ILE:O	46:EL:258:ILE:HG13	2.17	0.45
45:EM:37:PRO:HG2	45:EM:40:LYS:H	1.82	0.45
45:EM:116:ASP:OD1	45:EM:116:ASP:N	2.50	0.45
45:EM:311:LYS:HD2	45:EM:311:LYS:HA	1.68	0.45
46:EN:198:GLU:HG2	46:EN:266:PHE:HE2	1.81	0.45
46:FB:230:SER:HA	46:FB:233:MET:HE2	1.98	0.45
45:FE:69:ASP:O	45:FE:94:SER:HA	2.16	0.45
45:FG:169:PHE:HA	45:FG:202:VAL:HG22	1.99	0.45
46:FH:311:LEU:HD13	46:FH:342:VAL:HG11	1.99	0.45
45:FI:97:GLU:HA	46:FJ:2:ARG:HD3	1.99	0.45
46:FJ:310:TYR:CD2	46:FJ:371:SER:HB3	2.52	0.45
46:FN:8:GLN:HE21	46:FN:14:ASN:HA	1.82	0.45
46:GD:16:ILE:HD13	46:GD:226:ASN:OD1	2.17	0.45
46:GD:109:GLY:O	46:GD:113:ILE:HG23	2.16	0.45
45:GE:296:PHE:CE2	45:GE:335:ILE:HG21	2.52	0.45
45:GG:150:GLY:O	45:GG:154:LEU:HD23	2.16	0.45
45:GK:208:ALA:O	45:GK:212:ILE:HG12	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:223:THR:HG23	45:GK:225:THR:H	1.81	0.45
45:GK:288:VAL:HA	45:GK:291:ILE:HG12	1.99	0.45
46:HB:357:PRO:HB2	46:HB:361:LEU:O	2.16	0.45
45:HC:22:GLU:HG2	45:HC:83:TYR:OH	2.17	0.45
45:HC:63:PRO:HG2	45:HC:86:LEU:HD21	1.99	0.45
45:HC:238:LEU:HA	45:HC:318:MET:CE	2.47	0.45
46:HD:2:ARG:HB2	46:HD:131:GLN:HE21	1.80	0.45
46:HF:178:THR:HG22	46:HF:180:VAL:H	1.81	0.45
46:HH:73:MET:HE3	46:HH:92:PHE:HD2	1.81	0.45
46:HH:208:TYR:HE1	46:HH:225:LEU:HD11	1.81	0.45
46:HH:318:ARG:HB3	46:HH:357:PRO:HA	1.99	0.45
45:HI:353:VAL:HG22	46:HL:177:ASP:HB2	1.99	0.45
46:ID:105:HIS:CD2	46:ID:150:LEU:HB2	2.51	0.45
46:ID:136:THR:HG22	46:ID:167:PHE:CD1	2.52	0.45
45:IE:221:ARG:HB2	46:IF:322:SER:OG	2.17	0.45
46:IF:290:THR:O	46:IF:293:MET:HB3	2.17	0.45
46:IJ:86:ARG:HA	46:IJ:86:ARG:HD2	1.77	0.45
45:IK:209:ILE:HB	45:IK:227:LEU:HD22	1.99	0.45
45:JA:80:THR:HA	45:JA:84:ARG:NH1	2.32	0.45
45:JC:184:PRO:O	45:JC:188:ILE:HG12	2.16	0.45
45:JE:98:ASP:OD1	45:JE:99:ALA:N	2.50	0.45
45:JG:118:CYS:O	45:JG:122:ILE:HG12	2.16	0.45
45:JI:318:MET:N	45:JI:318:MET:SD	2.90	0.45
45:JK:311:LYS:HE3	45:JK:344:VAL:HG23	1.99	0.45
46:JN:156:ARG:NH2	46:JN:197:ASP:OD1	2.50	0.45
46:JN:175:VAL:HG22	46:JN:205:GLU:HB2	1.97	0.45
45:KA:287:SER:O	45:KA:290:GLU:HG3	2.17	0.45
45:KC:411:GLU:N	45:KC:411:GLU:OE2	2.49	0.45
45:KE:396:ASP:OD1	45:KE:422:ARG:NH1	2.50	0.45
45:KG:136:LEU:HD22	45:KG:169:PHE:HE2	1.82	0.45
45:KG:177:VAL:HG21	46:KH:327:ASP:HB3	1.98	0.45
46:KH:130:LEU:HB3	46:KH:162:ARG:NH1	2.32	0.45
46:KJ:276:ARG:HA	46:KJ:279:GLN:HE22	1.82	0.45
46:KL:111:GLU:OE1	46:KL:111:GLU:N	2.46	0.45
46:KN:325:GLU:HA	46:KN:328:GLU:CD	2.36	0.45
45:LC:100:ALA:HA	46:LD:252:LYS:HD3	1.99	0.45
45:LG:36:MET:SD	45:LG:37:PRO:HD2	2.56	0.45
46:LH:310:TYR:HD1	46:LH:371:SER:HB3	1.82	0.45
45:MA:31:GLN:HG3	45:MA:37:PRO:HA	1.98	0.45
45:MA:90:GLU:O	45:MA:90:GLU:HG3	2.16	0.45
45:MA:260:VAL:O	46:MD:397:TRP:CH2	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MB:86:ARG:NH1	46:MB:88:ASP:OD2	2.48	0.45
45:MC:155:GLU:HG2	45:MC:197:HIS:CD2	2.52	0.45
46:MF:9:GLY:HA3	46:MF:66:MET:SD	2.57	0.45
46:MF:16:ILE:HD13	46:MF:226:ASN:OD1	2.17	0.45
46:MF:238:CYS:SG	46:MF:239:CYS:N	2.90	0.45
46:MJ:295:ASP:OD1	46:MJ:296:ALA:N	2.49	0.45
46:ML:116:VAL:HA	46:ML:119:VAL:HG22	1.98	0.45
45:MM:420:GLU:HA	45:MM:423:GLU:CD	2.37	0.45
46:MN:116:VAL:HA	46:MN:119:VAL:HG22	1.99	0.45
46:NB:372:THR:HA	46:NB:422:TYR:CE1	2.41	0.45
46:NB:381:VAL:HA	46:NB:384:GLN:NE2	2.31	0.45
46:NH:64:ILE:HA	46:NH:89:ASN:HB3	1.99	0.45
46:NH:190:HIS:CD2	46:NH:411:ALA:HA	2.51	0.45
46:NJ:122:LYS:NZ	46:OJ:291:GLN:HG3	2.32	0.45
45:NK:140:SER:HA	45:NK:171:ILE:HB	1.98	0.45
45:NK:141:VAL:HG22	45:NK:187:SER:HA	1.98	0.45
46:NL:165:GLU:HB2	46:NL:198:GLU:OE1	2.17	0.45
46:NL:208:TYR:HA	46:NL:211:CYS:SG	2.57	0.45
46:NL:238:CYS:HB2	46:NL:318:ARG:NH1	2.32	0.45
45:NM:121:ARG:HA	45:NM:121:ARG:NH1	2.32	0.45
45:OA:121:ARG:HD2	45:OA:124:LYS:NZ	2.32	0.45
45:OA:174:SER:HB3	45:OA:207:GLU:OE2	2.16	0.45
46:OB:39:ASP:OD1	46:OB:43:GLN:NE2	2.50	0.45
46:OB:179:VAL:HG13	46:OB:180:VAL:HG13	1.98	0.45
46:OD:282:ARG:HH12	46:OD:292:GLN:HE22	1.65	0.45
46:OF:286:VAL:HG21	46:OF:325:GLU:OE2	2.17	0.45
45:OG:320:ARG:HB2	45:OG:358:GLN:O	2.17	0.45
45:OI:288:VAL:HA	45:OI:291:ILE:HG12	1.98	0.45
46:ON:125:GLU:OE1	46:PN:336:LYS:NZ	2.50	0.45
45:PE:180:ALA:HA	46:PF:350:LYS:HE2	1.98	0.45
45:PE:313:MET:HB2	45:PE:380:ASN:O	2.17	0.45
46:PF:2:ARG:HE	46:PF:240:LEU:HG	1.82	0.45
45:PG:141:VAL:HG12	45:PG:171:ILE:O	2.16	0.45
46:PH:289:LEU:HD23	46:PH:289:LEU:HA	1.73	0.45
46:PJ:9:GLY:HA2	46:PJ:66:MET:O	2.17	0.45
46:PL:175:VAL:O	46:PL:175:VAL:HG23	2.17	0.45
46:PN:22:GLU:OE1	46:PN:80:PRO:HB2	2.17	0.45
46:PN:116:VAL:HA	46:PN:119:VAL:HG12	1.98	0.45
46:PN:201:VAL:HG23	46:PN:301:CYS:SG	2.57	0.45
46:PN:285:THR:HB	46:PN:287:PRO:HD2	1.99	0.45
46:QD:97:ALA:HB3	46:QD:143:THR:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QE:107:HIS:ND1	45:QE:107:HIS:O	2.50	0.45
45:QG:123:ARG:HH22	45:RG:339:ARG:NH1	2.15	0.45
45:QI:324:VAL:HG12	45:QI:326:LYS:H	1.82	0.45
46:QL:21:TRP:CZ3	46:QL:61:PRO:HB3	2.52	0.45
46:QL:129:CYS:HB3	45:QM:96:LYS:NZ	2.31	0.45
45:RA:141:VAL:HG12	45:RA:171:ILE:O	2.17	0.45
46:RD:58:ARG:NH1	46:SD:280:GLN:OE1	2.49	0.45
46:RD:390:ARG:HB2	46:RD:390:ARG:NH1	2.32	0.45
45:RE:434:GLU:O	45:RE:437:ILE:HG22	2.17	0.45
45:RG:324:VAL:HG11	45:RG:326:LYS:NZ	2.32	0.45
46:RL:396:HIS:HA	46:RL:399:THR:OG1	2.16	0.45
45:RM:174:SER:CB	45:RM:177:VAL:HB	2.47	0.45
46:SB:48:ASN:O	46:SB:62:ARG:NH2	2.49	0.45
46:SB:253:LEU:HD13	46:SB:350:LYS:HZ3	1.81	0.45
45:SC:288:VAL:O	45:SC:291:ILE:HG22	2.17	0.45
45:SE:141:VAL:HG12	45:SE:171:ILE:O	2.16	0.45
45:SE:253:THR:HA	45:SE:256:GLN:HE22	1.81	0.45
46:SJ:391:ARG:HA	46:SJ:391:ARG:HD2	1.81	0.45
46:SL:4:ILE:HD11	46:SL:50:TYR:CE2	2.52	0.45
45:SM:201:ALA:O	45:SM:267:PHE:HA	2.16	0.45
46:TB:9:GLY:HA2	46:TB:66:MET:O	2.17	0.45
46:TB:232:ALA:O	46:TB:236:VAL:HG23	2.17	0.45
45:TC:34:GLY:O	45:TC:60:LYS:HA	2.17	0.45
45:TC:56:THR:OG1	45:UC:282:TYR:O	2.35	0.45
46:TD:315:ALA:HB1	46:TD:317:PHE:HE1	1.82	0.45
46:TF:87:PRO:HA	46:TF:90:PHE:HD2	1.81	0.45
46:TF:330:MET:SD	46:TF:349:ILE:HG21	2.57	0.45
45:TK:217:LEU:HB3	45:TK:219:ILE:HG13	1.98	0.45
45:TM:288:VAL:HG11	45:TM:323:VAL:HG23	1.99	0.45
45:TM:319:TYR:HB3	45:TM:373:ARG:NH1	2.32	0.45
45:UC:326:LYS:HD3	46:UD:220:PRO:HD2	1.99	0.45
46:UD:398:TYR:O	46:UD:403:MET:HB3	2.16	0.45
46:UF:327:ASP:O	46:UF:330:MET:HB2	2.17	0.45
46:UF:376:GLU:HA	46:UF:379:LYS:CG	2.46	0.45
46:UH:131:GLN:O	46:UH:162:ARG:NE	2.50	0.45
46:UH:252:LYS:NZ	47:UI:501:GTP:O1G	2.38	0.45
46:UH:342:VAL:HG13	46:UH:345:ILE:HG22	1.98	0.45
46:UJ:143:THR:O	46:UJ:147:MET:HE2	2.17	0.45
46:UL:344:TRP:HE3	46:UL:345:ILE:HG23	1.81	0.45
45:UM:174:SER:HA	45:UM:205:ASP:OD2	2.17	0.45
46:UN:3:GLU:HG3	46:UN:62:ARG:NH1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:396:HIS:HA	46:UN:399:THR:HG22	1.99	0.45
46:UN:406:MET:O	46:UN:410:GLU:HG3	2.16	0.45
45:VA:76:ASP:OD2	46:VB:46:ARG:NH2	2.50	0.45
45:VA:141:VAL:HG12	45:VA:171:ILE:O	2.17	0.45
46:VB:139:LEU:HD13	46:VB:168:SER:HB3	1.98	0.45
46:VB:318:ARG:NH1	46:VB:358:PRO:HG3	2.32	0.45
46:VD:372:THR:HA	46:VD:422:TYR:CE2	2.48	0.45
46:VH:114:ASP:O	46:VH:117:LEU:HG	2.17	0.45
46:VH:164:MET:CE	46:VH:196:ALA:HA	2.46	0.45
45:VI:3:GLU:OE2	45:VI:131:GLY:N	2.50	0.45
45:VI:187:SER:O	45:VI:191:THR:HG23	2.15	0.45
46:VL:8:GLN:HG3	46:VL:14:ASN:ND2	2.32	0.45
45:WA:35:GLN:OE1	45:WA:35:GLN:N	2.50	0.45
45:WA:221:ARG:HH22	46:WB:324:LYS:HG3	1.82	0.45
45:WI:74:VAL:O	45:WI:77:GLU:HG3	2.16	0.45
45:WI:205:ASP:OD1	45:WI:303:ALA:HA	2.17	0.45
46:WJ:64:ILE:HA	46:WJ:89:ASN:HB3	1.99	0.45
45:WM:217:LEU:HB3	45:WM:219:ILE:HG12	1.99	0.45
45:CE:319:TYR:HB3	45:CE:323:VAL:HG11	1.98	0.45
2:0B:214:LYS:HB2	45:JI:48:ALA:HB2	1.97	0.45
3:0C:45:PRO:HG3	46:DH:44:LEU:HD21	1.99	0.45
4:1D:53:ILE:O	45:EG:221:ARG:NH1	2.47	0.45
31:2I:95:LYS:HB2	46:GF:332:ASN:HD21	1.82	0.45
21:2L:900:HIS:HA	46:CJ:320:ARG:NH2	2.31	0.45
23:2O:254:LYS:HD3	45:UI:58:ALA:HB1	1.98	0.45
12:2T:83:GLN:OE1	45:MG:412:GLY:HA2	2.17	0.45
14:2V:101:ILE:HA	45:LE:415:GLU:OE2	2.17	0.45
14:2V:106:TYR:OH	45:LE:196:GLU:OE2	2.23	0.45
34:4R:267:LEU:HD12	34:4R:268:GLU:HG2	1.98	0.45
34:4R:461:LYS:NZ	46:FF:218:THR:HG21	2.32	0.45
15:4X:18:ILE:HD11	46:LL:81:PHE:HE1	1.82	0.45
36:5D:21:GLN:OE1	46:KN:409:THR:HG22	2.17	0.45
36:5D:32:ALA:O	36:5D:34:PHE:N	2.50	0.45
37:5G:108:LYS:NZ	46:NJ:37:HIS:HA	2.31	0.45
34:5R:80:ARG:NH2	45:MI:36:MET:O	2.50	0.45
34:5R:399:GLY:HA2	34:5R:402:TYR:HD2	1.81	0.45
34:5R:509:ASP:O	34:5R:512:THR:OG1	2.23	0.45
40:6G:194:VAL:O	40:6G:197:GLU:HG3	2.17	0.45
34:6R:426:PHE:CE1	34:6R:512:THR:HG21	2.52	0.45
45:AC:311:LYS:N	45:AC:382:THR:OG1	2.50	0.45
45:AE:112:LYS:NZ	45:AE:113:GLU:OE2	2.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AE:251:ASP:H	45:AE:254:GLU:HG2	1.82	0.45
46:AH:226:ASN:ND2	49:AH:501:GDP:HN1	2.14	0.45
45:AI:64:ARG:NH1	45:AI:129:CYS:SG	2.89	0.45
46:AJ:268:ILE:HG22	46:AJ:368:VAL:HG22	1.99	0.45
46:AJ:323:THR:HG22	46:AJ:353:ILE:HD13	1.98	0.45
46:AL:201:VAL:HG23	46:AL:301:CYS:SG	2.57	0.45
45:AM:214:ARG:HG2	45:AM:214:ARG:HH11	1.80	0.45
46:AN:54:ALA:HA	46:BN:283:ALA:HB2	1.98	0.45
46:AN:272:PRO:HG3	46:AN:284:LEU:HD11	1.99	0.45
45:BA:88:HIS:O	45:BA:90:GLU:N	2.50	0.45
46:BD:103:LYS:HA	46:BD:401:GLU:OE2	2.17	0.45
46:BF:218:THR:HG1	46:BF:219:THR:H	1.65	0.45
46:BH:1:MET:O	46:BH:2:ARG:HG2	2.17	0.45
46:BH:116:VAL:HA	46:BH:119:VAL:HG22	1.99	0.45
46:BL:184:ASN:OD1	46:BL:185:ALA:N	2.50	0.45
45:BM:214:ARG:HA	45:BM:214:ARG:HD2	1.67	0.45
46:CB:46:ARG:NH2	45:CC:76:ASP:OD1	2.49	0.45
46:CD:182:PRO:HD2	46:CD:388:MET:HE1	1.98	0.45
45:CG:211:ASP:CG	45:CG:215:ARG:HE	2.20	0.45
45:CI:183:GLU:N	45:CI:184:PRO:HD2	2.32	0.45
46:CJ:116:VAL:O	46:CJ:120:VAL:HG23	2.17	0.45
46:CJ:289:LEU:HD11	46:CJ:363:MET:HG3	1.99	0.45
45:CK:68:LEU:HD21	45:CK:118:CYS:HB2	1.98	0.45
46:CL:12:CYS:O	46:CL:16:ILE:HG12	2.17	0.45
46:CN:273:LEU:H	46:CN:292:GLN:NE2	2.15	0.45
46:DB:167:PHE:CE1	46:DB:233:MET:HG3	2.50	0.45
46:DJ:312:THR:HG22	46:DJ:370:ASN:HB3	1.98	0.45
46:DJ:362:LYS:HG3	46:DJ:363:MET:HG2	1.98	0.45
45:EA:64:ARG:NH1	45:EA:129:CYS:SG	2.90	0.45
46:EB:212:PHE:CE2	46:EB:220:PRO:HG2	2.51	0.45
46:ED:325:GLU:HB2	45:EE:221:ARG:CZ	2.46	0.45
45:EG:209:ILE:CD1	45:EG:227:LEU:HD23	2.47	0.45
46:EH:258:ILE:HG13	46:EH:258:ILE:O	2.17	0.45
46:EL:65:LEU:HD22	46:EL:90:PHE:CE1	2.52	0.45
46:EL:412:GLU:HA	46:EL:415:MET:HG3	1.99	0.45
45:FA:51:THR:HG22	45:FA:52:PHE:CD1	2.52	0.45
45:FA:420:GLU:HA	45:FA:423:GLU:CD	2.37	0.45
46:FB:116:VAL:HA	46:FB:119:VAL:HG12	1.98	0.45
46:FB:216:LYS:HD2	46:FB:216:LYS:O	2.17	0.45
45:FC:371:VAL:HG12	45:FC:373:ARG:H	1.82	0.45
46:FD:321:MET:HB2	46:FD:325:GLU:OE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:230:SER:HA	46:FF:233:MET:CE	2.47	0.45
46:FF:318:ARG:HH11	46:FF:358:PRO:HG3	1.82	0.45
45:FI:21:TRP:CZ3	45:FI:63:PRO:HB3	2.52	0.45
46:FJ:222:TYR:HD1	49:FJ:501:GDP:C6	2.35	0.45
46:GB:166:THR:HG21	46:GB:192:LEU:HD11	1.99	0.45
45:GC:107:HIS:ND1	45:GC:107:HIS:O	2.48	0.45
45:GG:346:TRP:CD1	46:GJ:391:ARG:HG3	2.51	0.45
45:GK:185:TYR:O	45:GK:188:ILE:HG22	2.16	0.45
46:GL:6:HIS:NE2	46:GL:8:GLN:OE1	2.50	0.45
46:GL:171:PRO:HB3	46:GL:181:GLU:OE1	2.17	0.45
46:HD:107:THR:OG1	46:HD:108:GLU:OE1	2.23	0.45
46:HD:316:LEU:HD23	46:HD:352:SER:HB2	1.98	0.45
46:HF:295:ASP:OD1	46:HF:296:ALA:N	2.49	0.45
45:HI:107:HIS:O	45:HI:107:HIS:ND1	2.50	0.45
45:HI:175:PRO:HG3	45:HI:390:ARG:CZ	2.47	0.45
45:HI:227:LEU:O	45:HI:231:ILE:HG12	2.16	0.45
46:HL:22:GLU:HG2	46:HL:81:PHE:CD1	2.51	0.45
45:HM:21:TRP:CZ2	45:HM:65:ALA:HB2	2.52	0.45
46:HN:118:ASP:HA	46:HN:121:ARG:NH1	2.32	0.45
46:HN:221:THR:HG23	46:HN:223:GLY:H	1.81	0.45
46:IB:87:PRO:HA	46:IB:90:PHE:HD2	1.82	0.45
45:IE:209:ILE:HA	45:IE:212:ILE:HD12	1.98	0.45
45:IE:256:GLN:HB2	46:IH:397:TRP:HH2	1.82	0.45
46:IF:21:TRP:CZ3	46:IF:61:PRO:HB3	2.52	0.45
45:II:346:TRP:CD1	46:IL:391:ARG:HG3	2.51	0.45
45:IK:200:VAL:HG13	45:IK:268:MET:SD	2.57	0.45
46:IL:97:ALA:HB3	46:IL:143:THR:HB	1.99	0.45
45:JA:167:LEU:HD13	45:JA:200:VAL:HB	1.98	0.45
45:JC:46:ASP:N	45:JC:46:ASP:OD1	2.50	0.45
45:JE:10:GLY:O	45:JE:14:ILE:HG12	2.17	0.45
45:JE:288:VAL:HA	45:JE:291:ILE:HG22	1.98	0.45
45:JG:141:VAL:HG11	45:JG:172:TYR:CD1	2.52	0.45
46:JH:21:TRP:CH2	46:JH:61:PRO:HB3	2.51	0.45
46:JH:69:GLU:CD	46:JH:71:GLY:H	2.20	0.45
45:JM:35:GLN:N	45:JM:35:GLN:OE1	2.50	0.45
45:JM:387:VAL:HG12	45:JM:390:ARG:NH1	2.32	0.45
45:JM:407:TRP:CZ2	46:JN:258:ILE:HG23	2.52	0.45
46:JN:73:MET:HA	46:JN:76:VAL:HG12	1.98	0.45
45:KA:72:PRO:HD2	46:KB:2:ARG:NH2	2.32	0.45
45:KC:10:GLY:O	45:KC:14:ILE:HG12	2.17	0.45
46:KF:10:GLY:O	46:KF:14:ASN:ND2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KF:202:ILE:HD11	46:KF:207:LEU:HD11	1.99	0.45
45:KG:5:ILE:HD12	45:KG:125:LEU:HD23	1.99	0.45
45:KG:185:TYR:CZ	45:KG:398:MET:HE3	2.51	0.45
46:KH:395:LEU:O	46:KH:399:THR:HG23	2.17	0.45
46:KJ:83:GLN:N	46:KJ:83:GLN:OE1	2.49	0.45
46:KJ:172:SER:HB2	46:KJ:174:LYS:HZ3	1.82	0.45
46:KL:21:TRP:CZ3	46:KL:61:PRO:HB3	2.52	0.45
46:KL:61:PRO:HG2	46:KL:85:PHE:CD1	2.45	0.45
46:KL:232:ALA:HB1	46:KL:268:ILE:HD12	1.98	0.45
45:KM:328:VAL:HG11	45:KM:353:VAL:HG21	1.99	0.45
46:LB:284:LEU:HD23	46:LB:284:LEU:HA	1.87	0.45
46:LB:289:LEU:O	46:LB:293:MET:HG2	2.17	0.45
45:LC:434:GLU:O	45:LC:437:ILE:HG12	2.17	0.45
46:LH:73:MET:HE1	46:LH:90:PHE:HB3	1.99	0.45
46:LL:17:GLY:O	46:LL:21:TRP:HD1	2.00	0.45
46:LN:177:ASP:OD1	46:LN:178:THR:N	2.50	0.45
46:MD:215:LEU:HD21	46:MD:273:LEU:HD23	1.99	0.45
45:ME:205:ASP:OD1	45:ME:303:ALA:HA	2.16	0.45
45:MK:154:LEU:HD23	45:MK:157:LEU:HD21	1.98	0.45
46:ML:372:THR:HA	46:ML:422:TYR:CE2	2.52	0.45
45:MM:328:VAL:HG11	45:MM:353:VAL:HG21	1.98	0.45
46:MN:36:TYR:HB2	46:MN:59:TYR:HE1	1.82	0.45
45:NA:98:ASP:O	45:NA:105:ARG:NH2	2.48	0.45
45:NA:261:PRO:HA	46:ND:394:PHE:CE1	2.52	0.45
45:NA:269:LEU:HD23	45:NA:384:ILE:HD13	1.98	0.45
45:NA:339:ARG:O	45:NA:342:GLN:NE2	2.50	0.45
45:NC:284:GLU:HG3	45:NC:285:GLN:N	2.32	0.45
45:NG:338:LYS:HG3	45:NG:340:THR:HG22	1.99	0.45
46:NH:116:VAL:HA	46:NH:119:VAL:HG12	1.99	0.45
45:NI:172:TYR:HD1	45:NI:173:PRO:HD2	1.82	0.45
46:NJ:39:ASP:H	46:NJ:43:GLN:HE22	1.64	0.45
45:NK:165:SER:HA	45:NK:199:ASP:OD2	2.16	0.45
45:OA:141:VAL:HG22	45:OA:187:SER:HA	1.99	0.45
46:OD:103:LYS:HB3	46:OD:103:LYS:HE3	1.78	0.45
46:OD:175:VAL:HG11	46:OD:208:TYR:CE2	2.52	0.45
45:OK:217:LEU:HB3	45:OK:219:ILE:HG12	1.99	0.45
46:OL:203:ASP:O	46:OL:207:LEU:HG	2.17	0.45
45:OM:139:ASN:OD1	45:OM:140:SER:N	2.49	0.45
46:ON:23:VAL:O	46:ON:27:GLU:OE1	2.34	0.45
46:ON:190:HIS:ND1	46:ON:411:ALA:HA	2.31	0.45
45:PC:387:VAL:O	45:PC:390:ARG:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:2:ARG:NH2	45:PE:242:LEU:HD23	2.31	0.45
46:PF:318:ARG:HB2	46:PF:364:ALA:HB3	1.99	0.45
45:PG:201:ALA:HB3	45:PG:267:PHE:HD1	1.81	0.45
45:PG:310:GLY:HA3	45:PG:383:ALA:HB2	1.99	0.45
45:PI:55:GLU:OE1	45:PI:56:THR:N	2.50	0.45
46:PJ:294:PHE:HD2	46:PJ:333:VAL:HG21	1.79	0.45
46:PN:345:ILE:O	46:PN:345:ILE:HG13	2.17	0.45
46:QB:21:TRP:HE1	46:QB:63:ALA:HB2	1.82	0.45
45:QC:256:GLN:NE2	46:QD:397:TRP:HE1	2.15	0.45
45:QE:231:ILE:O	45:QE:235:ILE:HG12	2.17	0.45
45:QG:89:PRO:HD3	45:RG:280:LYS:HE3	1.98	0.45
45:QK:69:ASP:O	45:QK:94:SER:HA	2.15	0.45
45:QK:88:HIS:HB3	45:QK:91:GLN:CG	2.46	0.45
45:QK:352:LYS:NZ	46:QL:179:VAL:H	2.03	0.45
46:QL:138:SER:HA	46:QL:169:VAL:HB	1.99	0.45
46:QL:187:LEU:HD21	46:QL:408:PHE:CE2	2.52	0.45
46:RB:397:TRP:O	46:RB:401:GLU:HG3	2.16	0.45
45:RC:432:TYR:HA	45:RC:435:VAL:HG12	1.99	0.45
46:RD:86:ARG:NH2	46:SD:282:ARG:HA	2.32	0.45
45:RE:103:PHE:HB2	45:RE:186:ASN:HB3	1.99	0.45
45:RE:140:SER:OG	47:RE:501:GTP:O2B	2.20	0.45
45:RE:209:ILE:HG23	45:RE:227:LEU:HD22	1.99	0.45
45:RG:229:ARG:HH12	45:RG:366:GLY:HA2	1.80	0.45
45:RG:326:LYS:HD2	46:RH:212:PHE:CZ	2.50	0.45
46:RH:45:GLU:HG3	46:RH:46:ARG:HG2	1.99	0.45
46:RH:318:ARG:HH11	46:RH:358:PRO:HG3	1.80	0.45
46:RJ:2:ARG:N	46:RJ:129:CYS:HG	2.14	0.45
45:RK:384:ILE:O	45:RK:387:VAL:HG22	2.16	0.45
46:SB:45:GLU:O	46:SB:46:ARG:HD3	2.16	0.45
46:SB:65:LEU:HD22	46:SB:90:PHE:CE1	2.51	0.45
45:SE:11:GLN:OE1	45:SE:15:GLN:NE2	2.49	0.45
45:SE:333:ALA:O	45:SE:337:THR:HG23	2.16	0.45
45:SE:377:MET:SD	45:SE:379:SER:HB3	2.56	0.45
45:SG:51:THR:HB	45:SG:243:ARG:HD3	1.99	0.45
45:SI:151:SER:O	45:SI:155:GLU:HG2	2.17	0.45
45:SI:287:SER:O	45:SI:291:ILE:HG23	2.16	0.45
46:SJ:86:ARG:NH1	46:SJ:87:PRO:HD2	2.32	0.45
46:SJ:324:LYS:HE2	46:SJ:324:LYS:HB2	1.68	0.45
46:SL:321:MET:SD	46:SL:363:MET:HG3	2.57	0.45
45:SM:226:ASN:O	45:SM:230:LEU:HD23	2.17	0.45
45:TC:141:VAL:HG22	45:TC:187:SER:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TE:60:LYS:HZ1	45:UE:282:TYR:HD2	1.64	0.45
46:TF:289:LEU:O	46:TF:293:MET:HB2	2.16	0.45
46:TH:324:LYS:HD3	45:TI:222:PRO:HD2	1.98	0.45
46:TJ:380:ARG:HE	46:TJ:380:ARG:HB3	1.64	0.45
45:TM:93:ILE:HG22	45:TM:114:ILE:HD11	1.99	0.45
46:TN:3:GLU:HG3	46:TN:62:ARG:HH12	1.81	0.45
46:UB:193:VAL:O	46:UB:262:ARG:NH2	2.50	0.45
45:UC:254:GLU:O	45:UC:258:ASN:ND2	2.50	0.45
46:UD:28:HIS:C	46:UD:43:GLN:HE21	2.19	0.45
46:UD:325:GLU:O	46:UD:328:GLU:HG2	2.17	0.45
46:UF:313:ALA:HB1	46:UF:367:PHE:HE1	1.81	0.45
46:UJ:7:ILE:HB	46:UJ:135:ILE:HG12	1.99	0.45
45:UK:51:THR:HG22	45:UK:52:PHE:CD1	2.52	0.45
45:UK:254:GLU:O	45:UK:255:PHE:HD1	2.00	0.45
45:UK:384:ILE:O	45:UK:387:VAL:HG22	2.17	0.45
46:UL:6:HIS:CD2	46:UL:21:TRP:HE1	2.35	0.45
46:UL:235:GLY:HA3	46:UL:366:THR:HG21	1.98	0.45
46:UN:405:GLU:HA	46:UN:408:PHE:CD2	2.52	0.45
45:VA:109:THR:HB	45:VA:110:ILE:HD12	1.98	0.45
45:VA:224:TYR:HA	45:VA:227:LEU:HD23	1.99	0.45
45:VA:261:PRO:HG3	46:VD:394:PHE:CZ	2.52	0.45
46:VB:196:ALA:HB3	46:VB:264:HIS:CE1	2.52	0.45
45:VC:88:HIS:NE2	45:WC:284:GLU:OE2	2.46	0.45
45:VC:261:PRO:O	46:VF:396:HIS:NE2	2.50	0.45
46:VF:310:TYR:CD1	46:VF:371:SER:HB2	2.52	0.45
45:VG:147:SER:HB2	45:VG:190:SER:HB3	1.98	0.45
45:VG:245:ASP:OD2	45:VG:245:ASP:N	2.47	0.45
46:VH:293:MET:HE1	46:VH:367:PHE:CD1	2.51	0.45
45:VI:352:LYS:HE2	46:VL:177:ASP:O	2.17	0.45
46:VL:114:ASP:O	46:VL:117:LEU:HG	2.17	0.45
45:VM:212:ILE:HD11	45:VM:300:ASN:HA	1.98	0.45
46:VN:247:ASN:O	46:VN:252:LYS:NZ	2.35	0.45
46:VN:274:THR:HB	46:VN:282:ARG:HH11	1.82	0.45
45:WA:262:TYR:OH	46:WD:391:ARG:O	2.30	0.45
46:WB:200:MET:CE	46:WB:266:PHE:HB2	2.47	0.45
46:WB:317:PHE:HD1	46:WB:365:VAL:HG22	1.81	0.45
46:WF:67:ASP:OD1	46:WF:68:LEU:N	2.47	0.45
45:CE:2:ARG:HB2	45:CE:133:GLN:HE22	1.81	0.45
2:0B:304:ARG:NH2	45:KI:322:ASP:HB3	2.32	0.45
8:1H:334:TYR:OH	46:HD:280:GLN:NE2	2.49	0.45
21:1L:753:ARG:HB2	46:BD:362:LYS:HZ2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:2N:258:THR:HB	46:LB:276:ARG:HH12	1.82	0.45
23:2O:156:ARG:CZ	45:VK:278:ALA:H	2.30	0.45
1:3A:125:LEU:H	46:AN:279:GLN:HE22	1.65	0.45
35:4S:111:GLU:OE1	35:4S:116:TYR:HB2	2.17	0.45
15:4X:104:GLN:O	15:4X:108:LYS:HG2	2.16	0.45
37:5F:44:ARG:NH1	45:NC:56:THR:O	2.49	0.45
10:5Q:72:LYS:HG3	10:5Q:149:ILE:O	2.17	0.45
35:5S:81:HIS:HE1	45:WE:164:LYS:HB2	1.81	0.45
35:5S:161:THR:O	35:5S:165:ILE:HG13	2.17	0.45
40:6G:86:LYS:C	40:6G:87:LYS:HD2	2.38	0.45
10:6Q:83:LEU:HG	10:6Q:85:LYS:HG2	1.97	0.45
10:6Q:104:ARG:NE	45:AM:423:GLU:OE1	2.50	0.45
10:6Q:150:GLU:OE1	10:6Q:152:LEU:HD23	2.17	0.45
34:6R:153:GLN:NE2	34:6R:156:SER:HB2	2.30	0.45
46:AD:40:SER:H	46:AD:43:GLN:HE21	1.64	0.45
45:AE:242:LEU:HD21	45:AE:252:ILE:HG12	1.99	0.45
45:AE:384:ILE:O	45:AE:387:VAL:HG22	2.17	0.45
45:AG:152:LEU:O	45:AG:156:ARG:HG2	2.17	0.45
46:AL:20:PHE:O	46:AL:24:ILE:HG12	2.16	0.45
46:AL:77:ARG:HG3	46:AL:77:ARG:HH11	1.82	0.45
45:BA:116:ASP:O	45:BA:119:LEU:HG	2.17	0.45
45:BE:5:ILE:HB	45:BE:135:PHE:CD1	2.52	0.45
46:BH:48:ASN:HA	46:BH:51:TYR:O	2.17	0.45
46:BH:91:VAL:HG21	46:BH:116:VAL:HB	1.98	0.45
45:BI:38:SER:O	45:BI:38:SER:OG	2.35	0.45
45:BI:102:ASN:HB3	45:BI:105:ARG:HD3	1.99	0.45
45:BI:219:ILE:HG22	45:BI:222:PRO:HD3	1.97	0.45
45:BI:414:GLU:CD	45:BI:416:GLY:H	2.21	0.45
45:BK:24:PHE:CZ	45:BK:52:PHE:HE1	2.35	0.45
46:BL:421:GLU:HA	46:BL:424:GLN:OE1	2.17	0.45
46:BN:316:LEU:HG	46:BN:352:SER:OG	2.16	0.45
45:CC:346:TRP:CD1	46:CD:391:ARG:HG3	2.51	0.45
46:CD:8:GLN:N	46:CD:8:GLN:OE1	2.50	0.45
46:CD:141:GLY:O	46:CD:145:SER:CB	2.64	0.45
46:CF:99:ASN:HA	46:CF:142:GLY:H	1.82	0.45
45:CG:434:GLU:O	45:CG:437:ILE:HG12	2.17	0.45
45:CI:174:SER:HB2	45:CI:177:VAL:O	2.17	0.45
45:CI:432:TYR:HA	45:CI:435:VAL:HG12	1.98	0.45
46:CL:105:HIS:CE1	46:CL:150:LEU:HD12	2.52	0.45
46:CL:276:ARG:HE	46:CL:276:ARG:HB3	1.61	0.45
46:CL:325:GLU:HA	46:CL:328:GLU:CG	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DA:256:GLN:HB2	45:DA:260:VAL:HB	1.99	0.45
46:DD:344:TRP:HB3	46:DD:430:ALA:HB2	1.99	0.45
45:DE:48:ALA:O	45:DE:51:THR:HG22	2.17	0.45
45:DE:167:LEU:HG	45:DE:200:VAL:HB	1.99	0.45
46:DF:87:PRO:HA	46:DF:90:PHE:HD2	1.82	0.45
46:DJ:46:ARG:NH2	45:DK:76:ASP:OD2	2.50	0.45
45:EA:167:LEU:HG	45:EA:200:VAL:HB	1.99	0.45
45:EA:387:VAL:HA	45:EA:390:ARG:HG2	1.99	0.45
46:EF:239:CYS:HA	46:EF:354:CYS:SG	2.57	0.45
46:EF:263:LEU:HD11	46:EF:421:GLU:OE1	2.17	0.45
46:EJ:361:LEU:C	46:EJ:362:LYS:HD3	2.38	0.45
45:EM:127:ASP:OD1	45:EM:128:ASN:N	2.50	0.45
45:FA:72:PRO:HA	45:FA:75:ILE:HG22	1.98	0.45
45:FA:221:ARG:NH1	46:FB:325:GLU:H	2.15	0.45
46:FB:6:HIS:O	46:FB:63:ALA:HA	2.17	0.45
46:FD:21:TRP:CZ3	46:FD:61:PRO:HB3	2.52	0.45
46:FD:233:MET:O	46:FD:236:VAL:HG12	2.17	0.45
46:FD:391:ARG:HA	46:FD:391:ARG:HD2	1.78	0.45
45:FG:326:LYS:HA	46:FJ:208:TYR:HE1	1.82	0.45
45:FK:93:ILE:HG22	45:FK:114:ILE:HD11	1.99	0.45
45:FK:181:VAL:HG12	46:FL:347:ASN:O	2.17	0.45
45:GE:221:ARG:CZ	46:GF:322:SER:H	2.30	0.45
45:GE:430:LYS:HA	45:GE:430:LYS:HD3	1.68	0.45
46:GJ:345:ILE:HG23	46:GJ:348:ASN:HB3	1.98	0.45
45:GK:109:THR:HB	45:GK:110:ILE:HD12	1.99	0.45
45:GM:210:TYR:OH	46:GN:323:THR:OG1	2.34	0.45
46:HD:18:ALA:HB3	46:HD:19:LYS:NZ	2.32	0.45
45:HE:227:LEU:O	45:HE:231:ILE:HG12	2.17	0.45
45:HG:60:LYS:HD2	45:IG:283:HIS:CD2	2.51	0.45
45:HI:105:ARG:O	45:HI:110:ILE:HG22	2.17	0.45
45:HI:188:ILE:HG13	45:HI:425:LEU:HD11	1.99	0.45
45:HK:18:ASN:OD1	45:HK:19:ALA:N	2.50	0.45
46:HN:143:THR:O	46:HN:147:MET:HG2	2.17	0.45
46:IB:273:LEU:H	46:IB:292:GLN:NE2	2.04	0.45
45:IC:10:GLY:O	45:IC:14:ILE:HG12	2.17	0.45
45:IC:296:PHE:CE2	45:IC:335:ILE:HG21	2.51	0.45
46:ID:109:GLY:O	46:ID:113:ILE:HG23	2.16	0.45
45:IG:231:ILE:O	45:IG:235:ILE:HG12	2.17	0.45
46:IH:116:VAL:O	46:IH:120:VAL:HG23	2.16	0.45
46:IJ:12:CYS:O	46:IJ:16:ILE:HG12	2.17	0.45
46:IL:217:LEU:HD23	46:IL:217:LEU:H	1.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:290:THR:HG21	46:IL:329:GLN:HG2	1.97	0.45
46:IN:207:LEU:HB3	46:IN:225:LEU:HD22	1.98	0.45
46:IN:208:TYR:HA	46:IN:211:CYS:SG	2.57	0.45
45:JA:274:PRO:HD3	45:JA:291:ILE:HD11	1.99	0.45
46:JB:280:GLN:HG2	46:JB:281:TYR:CD2	2.52	0.45
46:JD:5:VAL:HG12	46:JD:62:ARG:HD3	1.98	0.45
45:JE:434:GLU:O	45:JE:437:ILE:HG12	2.17	0.45
46:JF:116:VAL:HA	46:JF:119:VAL:HG22	1.98	0.45
45:JG:222:PRO:O	46:JH:322:SER:HB2	2.17	0.45
45:JG:286:LEU:N	45:JG:290:GLU:OE2	2.50	0.45
45:JI:107:HIS:ND1	45:JI:107:HIS:O	2.50	0.45
46:JL:68:LEU:HD12	46:JL:97:ALA:HB2	1.99	0.45
45:JM:2:ARG:HD3	45:JM:242:LEU:HD22	1.99	0.45
46:KB:238:CYS:SG	46:KB:239:CYS:N	2.89	0.45
46:KF:292:GLN:HG2	46:KF:298:ASN:ND2	2.31	0.45
46:KF:332:ASN:C	46:KF:336:LYS:HZ2	2.21	0.45
45:KI:118:CYS:O	45:KI:122:ILE:HG12	2.17	0.45
45:KK:10:GLY:O	45:KK:14:ILE:HG12	2.17	0.45
45:KK:188:ILE:HG22	45:KK:421:ALA:HB1	1.99	0.45
46:LB:135:ILE:HG13	46:LB:152:ILE:HD11	1.98	0.45
46:LB:156:ARG:HA	46:LB:156:ARG:HD2	1.72	0.45
45:LI:155:GLU:HG2	45:LI:197:HIS:NE2	2.32	0.45
46:LJ:201:VAL:HG23	46:LJ:301:CYS:SG	2.57	0.45
45:LK:19:ALA:HA	45:LK:22:GLU:HG2	1.98	0.45
45:LK:430:LYS:HA	45:LK:433:GLU:OE2	2.16	0.45
45:LM:68:LEU:HD11	45:LM:114:ILE:CG2	2.47	0.45
45:MA:313:MET:N	45:MA:313:MET:SD	2.90	0.45
45:MA:419:SER:O	45:MA:423:GLU:HG2	2.17	0.45
46:MH:273:LEU:H	46:MH:292:GLN:NE2	2.15	0.45
45:MI:66:VAL:HG11	45:MI:122:ILE:HD11	1.98	0.45
46:MJ:3:GLU:HG3	46:MJ:62:ARG:NH1	2.32	0.45
46:MJ:36:TYR:HB2	46:MJ:59:TYR:HE2	1.82	0.45
46:MJ:107:THR:HG23	46:MJ:108:GLU:HG2	1.99	0.45
45:NA:229:ARG:HD3	45:NA:363:VAL:HG11	1.99	0.45
46:NB:125:GLU:OE2	46:OB:336:LYS:NZ	2.49	0.45
46:NB:174:LYS:HB2	46:NB:205:GLU:OE1	2.17	0.45
46:NB:345:ILE:HG22	46:NB:348:ASN:HB3	1.99	0.45
45:NC:138:PHE:CD2	45:NC:169:PHE:HB2	2.51	0.45
45:NC:371:VAL:HG22	45:NC:373:ARG:H	1.82	0.45
45:NE:153:LEU:HD23	45:NE:153:LEU:HA	1.83	0.45
45:NI:132:LEU:O	45:NI:164:LYS:NZ	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NJ:230:SER:HA	46:NJ:233:MET:HE3	1.99	0.45
45:NM:224:TYR:CD1	45:NM:227:LEU:HD21	2.51	0.45
46:OB:5:VAL:HG12	46:OB:62:ARG:HD3	1.99	0.45
46:OF:173:PRO:HD3	46:OF:380:ARG:NH1	2.32	0.45
45:OG:88:HIS:NE2	45:OG:90:GLU:HB3	2.32	0.45
46:OH:67:ASP:O	46:OH:92:PHE:HA	2.16	0.45
45:OI:331:SER:O	45:OI:335:ILE:HG12	2.17	0.45
47:OI:501:GTP:O1G	46:OJ:252:LYS:NZ	2.42	0.45
45:OK:88:HIS:O	45:OK:91:GLN:HG2	2.17	0.45
45:OM:407:TRP:HH2	46:ON:254:ALA:HB1	1.80	0.45
46:ON:105:HIS:CE1	46:ON:150:LEU:HD13	2.52	0.45
45:PA:2:ARG:NH2	46:PD:70:PRO:HD2	2.32	0.45
46:PB:310:TYR:HD2	46:PB:341:PHE:HE1	1.65	0.45
45:PC:5:ILE:HD13	45:PC:135:PHE:HE1	1.81	0.45
46:PD:8:GLN:NE2	46:PD:10:GLY:O	2.49	0.45
46:PD:260:PHE:HB3	46:PD:262:ARG:NH2	2.32	0.45
45:PG:223:THR:HG23	45:PG:225:THR:H	1.82	0.45
45:PI:60:LYS:HE3	45:PI:60:LYS:HB3	1.85	0.45
45:PI:297:GLU:HB2	45:PI:300:ASN:ND2	2.32	0.45
46:PL:232:ALA:HB1	46:PL:268:ILE:HD12	1.99	0.45
46:PN:86:ARG:NE	46:PN:87:PRO:HD2	2.32	0.45
46:PN:141:GLY:HA3	49:PN:502:GDP:PB	2.57	0.45
45:QC:259:LEU:HD13	45:QC:268:MET:HE1	1.97	0.45
45:QG:70:LEU:HD13	45:QG:145:THR:OG1	2.17	0.45
45:QG:202:VAL:HA	45:QG:268:MET:O	2.17	0.45
45:QG:393:HIS:O	45:QG:397:LEU:HD23	2.17	0.45
46:QH:108:GLU:O	46:QH:111:GLU:HG3	2.17	0.45
45:QM:271:SER:HA	45:QM:302:MET:HG2	1.98	0.45
45:RC:52:PHE:HZ	45:RC:239:THR:HG21	1.81	0.45
45:RC:91:GLN:N	45:RC:91:GLN:OE1	2.49	0.45
45:RE:52:PHE:HE2	45:RE:243:ARG:NE	2.14	0.45
45:RE:101:ASN:HA	45:RE:144:GLY:H	1.82	0.45
45:RE:363:VAL:HG13	45:RE:366:GLY:HA3	1.99	0.45
46:RF:19:LYS:HD2	46:RF:227:HIS:NE2	2.32	0.45
46:RF:135:ILE:HD11	46:RF:152:ILE:HD11	1.98	0.45
45:RG:17:GLY:HA2	45:RG:20:CYS:SG	2.57	0.45
45:RI:15:GLN:OE1	47:RI:501:GTP:N7	2.49	0.45
46:RL:156:ARG:NE	46:RL:156:ARG:HA	2.32	0.45
46:RL:309:ARG:NH1	46:RL:309:ARG:HB2	2.32	0.45
46:RN:5:VAL:HG12	46:RN:62:ARG:HD3	1.98	0.45
46:SB:164:MET:H	46:SB:197:ASP:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SC:231:ILE:O	45:SC:235:ILE:HG12	2.17	0.45
46:SD:26:ASP:O	46:SD:359:LYS:NZ	2.33	0.45
45:SE:85:GLN:OE1	45:SE:85:GLN:N	2.45	0.45
45:SE:88:HIS:ND1	45:SE:89:PRO:HD2	2.31	0.45
45:SG:60:LYS:HD3	45:TG:283:HIS:CD2	2.52	0.45
45:SG:411:GLU:N	45:SG:411:GLU:OE1	2.49	0.45
46:SH:58:ARG:NH1	46:TH:280:GLN:OE1	2.49	0.45
46:SH:139:LEU:HD13	46:SH:168:SER:HB2	1.98	0.45
46:SJ:254:ALA:O	46:SJ:258:ILE:HG12	2.16	0.45
46:SJ:258:ILE:HG13	45:SK:407:TRP:HE1	1.82	0.45
45:SK:207:GLU:O	45:SK:210:TYR:HB2	2.16	0.45
46:TB:305:PRO:HB2	46:TB:310:TYR:CE1	2.52	0.45
45:TC:28:HIS:HE1	45:TC:243:ARG:HD2	1.81	0.45
45:TC:185:TYR:HE2	45:TC:404:PHE:HB2	1.82	0.45
46:TD:97:ALA:O	46:TD:103:LYS:NZ	2.38	0.45
45:TE:352:LYS:NZ	46:TF:178:THR:HA	2.29	0.45
46:TF:16:ILE:HD13	46:TF:226:ASN:OD1	2.17	0.45
46:TF:210:ILE:HG13	46:TF:211:CYS:N	2.32	0.45
46:TF:273:LEU:H	46:TF:292:GLN:HE22	1.65	0.45
46:TF:345:ILE:HG22	45:TG:398:MET:SD	2.57	0.45
45:TG:135:PHE:O	45:TG:166:LYS:HA	2.17	0.45
45:TG:151:SER:O	45:TG:155:GLU:HG2	2.16	0.45
45:TG:152:LEU:HD11	45:TG:156:ARG:HH22	1.82	0.45
45:TG:408:TYR:HA	45:TG:411:GLU:OE2	2.17	0.45
46:TH:91:VAL:HG21	46:TH:116:VAL:HB	1.98	0.45
45:TI:21:TRP:CZ3	45:TI:63:PRO:HB3	2.52	0.45
45:TI:377:MET:SD	45:TI:379:SER:HB3	2.57	0.45
45:TM:362:VAL:HG12	45:TM:370:LYS:HD3	1.99	0.45
46:TN:52:ASN:OD1	46:TN:62:ARG:NH2	2.49	0.45
46:UB:60:VAL:HG23	46:UB:84:LEU:O	2.17	0.45
46:UB:91:VAL:HG21	46:UB:116:VAL:CG1	2.47	0.45
46:UF:46:ARG:HH21	46:UF:241:ARG:C	2.20	0.45
45:UG:430:LYS:O	45:UG:433:GLU:HG3	2.17	0.45
46:UH:11:GLN:O	46:UH:15:GLN:HG2	2.16	0.45
46:UJ:256:ASN:HB3	46:UJ:350:LYS:CE	2.47	0.45
45:UK:2:ARG:NH1	46:UL:70:PRO:HD2	2.24	0.45
46:UL:247:ASN:ND2	45:UM:71:GLU:OE1	2.50	0.45
46:UL:257:LEU:HD11	46:UL:314:SER:HB3	1.98	0.45
45:UM:83:TYR:C	45:UM:84:ARG:HD2	2.37	0.45
45:UM:141:VAL:HG22	45:UM:187:SER:HA	1.99	0.45
46:UN:148:GLY:O	46:UN:151:LEU:HG	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UN:184:ASN:OD1	46:UN:185:ALA:N	2.50	0.45
45:VA:90:GLU:CG	45:WA:280:LYS:HZ3	2.29	0.45
45:VA:174:SER:HB3	45:VA:207:GLU:CD	2.36	0.45
46:VB:257:LEU:HD11	46:VB:314:SER:HB2	1.98	0.45
45:VC:210:TYR:CE1	46:VD:324:LYS:HG3	2.52	0.45
45:VC:419:SER:O	45:VC:422:ARG:N	2.50	0.45
45:VG:108:TYR:O	45:VG:112:LYS:NZ	2.31	0.45
45:VG:317:MET:HE1	45:VG:351:PHE:HB3	1.99	0.45
46:VH:268:ILE:HG22	46:VH:368:VAL:HG22	1.99	0.45
46:VJ:3:GLU:OE1	46:VJ:127:CYS:HB2	2.17	0.45
45:VK:377:MET:SD	45:VK:379:SER:HB3	2.57	0.45
46:VL:132:GLY:HA2	46:VL:162:ARG:HB3	1.99	0.45
45:VM:271:SER:HA	45:VM:302:MET:HG2	1.97	0.45
46:VN:20:PHE:O	46:VN:24:ILE:HG12	2.17	0.45
45:WC:52:PHE:HZ	45:WC:239:THR:HG21	1.81	0.45
46:WH:237:THR:HG23	46:WH:241:ARG:HH21	1.82	0.45
45:WI:8:HIS:HB2	45:WI:67:PHE:CD2	2.52	0.45
45:WI:129:CYS:SG	45:WI:130:THR:N	2.89	0.45
45:WI:340:THR:HG23	45:WI:341:ILE:HG13	1.97	0.45
45:WK:36:MET:SD	45:WK:41:THR:HB	2.57	0.45
45:WK:151:SER:O	45:WK:154:LEU:HG	2.17	0.45
14:0V:24:ARG:HD3	45:MM:430:LYS:HZ3	1.81	0.44
7:1G:180:PRO:HG2	46:LD:174:LYS:HE2	1.99	0.44
23:1O:209:LYS:NZ	45:UC:370:LYS:HG3	2.32	0.44
25:1R:312:GLN:NE2	46:CD:360:GLY:HA3	2.32	0.44
14:1V:122:LYS:HZ3	46:LL:390:ARG:HA	1.82	0.44
31:2I:45:LYS:HA	46:GH:332:ASN:OD1	2.17	0.44
31:3I:250:GLN:HE22	45:GI:214:ARG:HH21	1.65	0.44
25:3R:458:ILE:HG12	46:FL:276:ARG:HH12	1.79	0.44
35:4S:81:HIS:O	35:4S:86:LYS:NZ	2.31	0.44
36:5B:68:ASP:HA	37:5F:69:LYS:HZ1	1.80	0.44
36:5C:57:PRO:HB2	46:KJ:390:ARG:NH1	2.33	0.44
37:5H:63:HIS:CD2	46:NN:58:ARG:HB3	2.52	0.44
10:5Q:3:LYS:O	10:5Q:4:ASN:OD1	2.36	0.44
40:6G:252:PHE:C	40:6G:256:LYS:HZ2	2.20	0.44
34:6R:426:PHE:CE2	34:6R:490:PHE:HB3	2.52	0.44
46:AB:2:ARG:HG3	46:AB:240:LEU:HD11	1.98	0.44
45:AC:326:LYS:HE2	46:AF:218:THR:O	2.16	0.44
46:AD:326:VAL:O	46:AD:330:MET:HG2	2.16	0.44
45:AG:3:GLU:OE2	45:AG:130:THR:N	2.49	0.44
45:AI:194:LEU:O	45:AI:198:THR:HG22	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AI:388:PHE:HB2	45:AI:429:GLU:OE1	2.16	0.44
45:AK:174:SER:HB2	45:AK:177:VAL:O	2.17	0.44
45:BA:121:ARG:HD2	45:BA:124:LYS:HD2	1.99	0.44
45:BA:254:GLU:O	45:BA:255:PHE:HD2	2.00	0.44
46:BD:226:ASN:ND2	49:BD:501:GDP:HN1	2.03	0.44
46:BD:391:ARG:HA	46:BD:391:ARG:HD2	1.71	0.44
45:BE:71:GLU:OE2	46:BF:2:ARG:NH2	2.50	0.44
45:BE:175:PRO:HG3	45:BE:390:ARG:NH1	2.31	0.44
46:BH:287:PRO:HG3	46:BH:329:GLN:HE22	1.82	0.44
45:BI:80:THR:HA	45:BI:84:ARG:HE	1.82	0.44
45:BK:3:GLU:HG3	45:BK:129:CYS:HB3	1.99	0.44
45:BK:76:ASP:OD2	46:BL:46:ARG:NH2	2.50	0.44
45:BM:10:GLY:O	45:BM:14:ILE:HD12	2.17	0.44
46:BN:102:ALA:HB2	46:BN:403:MET:CE	2.47	0.44
46:CB:350:LYS:HZ2	45:CC:180:ALA:HA	1.82	0.44
45:CC:432:TYR:HA	45:CC:435:VAL:HG12	1.98	0.44
46:CD:221:THR:O	46:CD:225:LEU:HG	2.17	0.44
46:CF:379:LYS:O	46:CF:383:GLU:OE1	2.35	0.44
46:CJ:198:GLU:HG2	46:CJ:266:PHE:HE2	1.82	0.44
45:CK:294:SER:O	45:CK:300:ASN:ND2	2.36	0.44
45:DA:331:SER:O	45:DA:335:ILE:HG12	2.16	0.44
46:DB:209:ASP:O	46:DB:213:ARG:HG3	2.17	0.44
46:DD:105:HIS:HD1	46:DD:106:TYR:HE2	1.65	0.44
46:DD:295:ASP:OD1	46:DD:296:ALA:N	2.50	0.44
46:DD:322:SER:OG	45:DE:222:PRO:O	2.33	0.44
46:DH:20:PHE:HA	46:DH:230:SER:OG	2.17	0.44
45:DI:36:MET:SD	45:DI:37:PRO:HD2	2.57	0.44
45:DI:205:ASP:OD2	45:DI:303:ALA:HA	2.16	0.44
46:DJ:68:LEU:HD12	46:DJ:97:ALA:HB2	1.98	0.44
45:DK:143:GLY:HA3	47:DK:501:GTP:O2B	2.17	0.44
46:EB:201:VAL:HG22	46:EB:266:PHE:O	2.17	0.44
45:EC:60:LYS:HD2	45:FA:283:HIS:HA	1.99	0.44
45:EC:419:SER:O	45:EC:423:GLU:HG2	2.17	0.44
46:ED:153:SER:HA	46:ED:195:ASN:HD22	1.82	0.44
46:EF:200:MET:HE3	46:EF:268:ILE:HG21	1.98	0.44
46:EF:304:ASP:OD1	46:EF:306:ARG:HD3	2.17	0.44
45:EG:260:VAL:HG23	45:EG:265:ILE:O	2.17	0.44
46:EH:121:ARG:NH2	46:EH:158:GLU:OE2	2.43	0.44
46:EH:221:THR:HG23	46:EH:224:ASP:H	1.81	0.44
45:EI:66:VAL:HG11	45:EI:122:ILE:HD11	1.99	0.44
46:EJ:83:GLN:O	46:FJ:281:TYR:OH	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EJ:399:THR:HA	46:EJ:403:MET:O	2.18	0.44
46:EL:24:ILE:O	46:EL:27:GLU:HG2	2.17	0.44
46:EL:380:ARG:HA	46:EL:383:GLU:OE1	2.16	0.44
45:FA:181:VAL:HG12	46:FB:347:ASN:O	2.16	0.44
46:FF:409:THR:O	46:FF:412:GLU:HG3	2.17	0.44
46:FJ:269:GLY:HA2	46:FJ:300:MET:HE2	1.99	0.44
45:GA:211:ASP:OD2	45:GA:304:LYS:NZ	2.33	0.44
46:GB:326:VAL:O	46:GB:330:MET:HE2	2.17	0.44
45:GC:88:HIS:CE1	45:GC:90:GLU:HB3	2.52	0.44
46:GF:258:ILE:O	46:GF:258:ILE:HG13	2.15	0.44
46:GF:404:ASP:OD1	46:GF:407:GLU:HG2	2.17	0.44
45:GG:179:THR:O	46:GH:350:LYS:HD2	2.16	0.44
46:GH:3:GLU:HA	46:GH:49:VAL:HG23	1.99	0.44
45:GI:222:PRO:HG2	46:GJ:324:LYS:HB2	1.98	0.44
45:GI:268:MET:HG3	45:GI:380:ASN:HB2	1.99	0.44
46:GN:3:GLU:HG3	46:GN:62:ARG:NH1	2.31	0.44
45:HC:194:LEU:O	45:HC:198:THR:HG22	2.18	0.44
45:HC:384:ILE:O	45:HC:387:VAL:HG22	2.17	0.44
45:HE:76:ASP:O	45:HE:80:THR:HG23	2.16	0.44
45:HM:184:PRO:O	45:HM:188:ILE:HG12	2.17	0.44
45:IC:205:ASP:OD1	45:IC:303:ALA:HA	2.17	0.44
45:IC:387:VAL:O	45:IC:391:LEU:HD23	2.17	0.44
46:ID:3:GLU:CD	46:ID:62:ARG:HE	2.21	0.44
46:ID:342:VAL:HG13	46:ID:345:ILE:HG22	1.99	0.44
46:IF:273:LEU:N	46:IF:292:GLN:HE22	2.11	0.44
45:IG:3:GLU:OE2	45:IG:129:CYS:HB3	2.17	0.44
46:IH:154:LYS:O	46:IH:157:GLU:HG3	2.17	0.44
46:IJ:396:HIS:HA	46:IJ:399:THR:HG22	1.98	0.44
46:IL:173:PRO:HG2	46:IL:380:ARG:HD2	1.99	0.44
45:IM:122:ILE:HG21	45:IM:157:LEU:HD11	1.98	0.44
45:IM:169:PHE:HE2	45:IM:235:ILE:HD12	1.83	0.44
46:IN:154:LYS:O	46:IN:157:GLU:HG3	2.17	0.44
46:IN:343:GLU:OE2	46:IN:430:ALA:N	2.41	0.44
46:JB:173:PRO:HD2	46:JB:174:LYS:NZ	2.32	0.44
46:JB:295:ASP:OD2	46:JB:297:LYS:N	2.50	0.44
46:JB:313:ALA:HB1	46:JB:367:PHE:HE1	1.82	0.44
45:JE:285:GLN:OE1	45:JE:285:GLN:N	2.49	0.44
45:JI:175:PRO:HB2	45:JI:176:GLN:OE1	2.17	0.44
45:JI:384:ILE:O	45:JI:387:VAL:HG22	2.17	0.44
45:JM:265:ILE:HG22	45:JM:380:ASN:HD21	1.82	0.44
46:KB:200:MET:HB3	46:KB:268:ILE:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KD:45:GLU:OE1	46:KD:46:ARG:HG2	2.17	0.44
46:KD:145:SER:OG	46:KD:188:SER:HB3	2.17	0.44
45:KE:84:ARG:HG3	45:KE:84:ARG:HH11	1.82	0.44
45:KE:269:LEU:HG	45:KE:301:MET:HE3	1.99	0.44
45:KM:169:PHE:HB3	45:KM:204:LEU:HD11	1.97	0.44
46:LB:166:THR:HG21	46:LB:192:LEU:HD11	1.99	0.44
45:LC:89:PRO:CD	45:MC:280:LYS:HE2	2.47	0.44
45:LM:362:VAL:HB	45:LM:370:LYS:HD2	1.99	0.44
45:MA:169:PHE:HB3	45:MA:204:LEU:HD11	1.99	0.44
46:MB:3:GLU:HG3	46:MB:62:ARG:NH1	2.32	0.44
46:MB:116:VAL:HA	46:MB:119:VAL:HG22	1.98	0.44
46:MD:252:LYS:HE2	46:MD:350:LYS:NZ	2.32	0.44
45:ME:278:ALA:HA	45:ME:281:ALA:HB2	1.98	0.44
45:MI:345:ASP:OD1	45:MI:346:TRP:N	2.50	0.44
46:MJ:63:ALA:O	46:MJ:89:ASN:ND2	2.49	0.44
45:MK:422:ARG:NH1	45:MK:426:ALA:HB2	2.32	0.44
47:MM:501:GTP:PG	46:MN:252:LYS:HZ1	2.37	0.44
46:MN:313:ALA:HB1	46:MN:367:PHE:HE1	1.82	0.44
45:NA:8:HIS:CD2	45:NA:17:GLY:HA3	2.53	0.44
45:NA:88:HIS:HD2	45:OA:283:HIS:HB3	1.81	0.44
45:NA:91:GLN:HE21	45:NA:121:ARG:NH2	2.15	0.44
46:NB:31:ASP:HB2	46:NB:32:PRO:HD2	1.99	0.44
46:NB:113:ILE:HG12	46:NB:117:LEU:CD2	2.46	0.44
46:ND:66:MET:HA	46:ND:91:VAL:O	2.17	0.44
46:ND:130:LEU:HD11	46:ND:133:PHE:CE1	2.51	0.44
46:NF:36:TYR:CZ	46:NF:44:LEU:HD11	2.52	0.44
45:NI:88:HIS:CD2	45:OI:283:HIS:HB3	2.52	0.44
46:NJ:316:LEU:HD13	46:NJ:352:SER:OG	2.17	0.44
46:NL:345:ILE:HG13	46:NL:348:ASN:HB3	1.99	0.44
45:OA:11:GLN:CG	45:OA:15:GLN:HE22	2.30	0.44
45:OC:414:GLU:N	45:OC:417:GLU:OE2	2.50	0.44
45:OI:224:TYR:HD2	47:OI:501:GTP:C6	2.36	0.44
45:OI:371:VAL:HG12	45:OI:373:ARG:H	1.82	0.44
45:OK:183:GLU:N	45:OK:184:PRO:HD2	2.32	0.44
46:ON:131:GLN:HA	46:ON:162:ARG:NH2	2.32	0.44
46:ON:315:ALA:HB1	46:ON:317:PHE:CE1	2.52	0.44
46:PF:232:ALA:HB1	46:PF:268:ILE:HD12	1.99	0.44
46:PF:282:ARG:HD2	46:PF:283:ALA:N	2.32	0.44
46:PH:154:LYS:HA	46:PH:157:GLU:OE1	2.17	0.44
45:PK:21:TRP:CZ2	45:PK:65:ALA:HB2	2.52	0.44
45:PK:229:ARG:NH1	45:PK:363:VAL:HG11	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PN:309:ARG:N	46:PN:372:THR:HG1	2.12	0.44
46:QD:409:THR:O	46:QD:412:GLU:HG3	2.17	0.44
46:QF:238:CYS:SG	46:QF:239:CYS:N	2.90	0.44
46:QF:282:ARG:HH22	46:QF:292:GLN:NE2	2.14	0.44
45:QG:319:TYR:CE2	45:QG:328:VAL:HG22	2.52	0.44
45:QG:352:LYS:NZ	46:QH:179:VAL:H	2.01	0.44
45:QI:135:PHE:HB2	45:QI:166:LYS:HG2	1.99	0.44
45:QI:227:LEU:O	45:QI:231:ILE:HG12	2.17	0.44
46:QJ:259:PRO:HA	45:QK:404:PHE:CD2	2.51	0.44
46:QJ:347:ASN:OD1	45:QK:178:SER:OG	2.22	0.44
46:QL:322:SER:H	45:QM:221:ARG:NH2	2.14	0.44
46:QL:324:LYS:HE3	45:QM:222:PRO:HD2	2.00	0.44
46:QN:309:ARG:NH2	46:QN:426:GLN:O	2.38	0.44
46:QN:312:THR:HG22	46:QN:370:ASN:HB3	1.98	0.44
46:RB:252:LYS:HA	45:RC:100:ALA:HB1	2.00	0.44
45:RC:359:PRO:HB2	45:RC:370:LYS:HZ2	1.81	0.44
45:RE:91:GLN:HB2	45:RE:121:ARG:NH2	2.33	0.44
46:RH:4:ILE:HG13	46:RH:132:GLY:O	2.17	0.44
46:RH:290:THR:HG21	46:RH:329:GLN:HG2	1.98	0.44
45:RI:10:GLY:O	45:RI:14:ILE:HG12	2.17	0.44
46:RJ:190:HIS:CE1	46:RJ:414:ASN:HD22	2.34	0.44
46:RL:99:ASN:ND2	46:RL:178:THR:HG21	2.32	0.44
46:RL:101:TRP:HB2	46:RL:184:ASN:HB3	1.99	0.44
46:RL:262:ARG:HG3	46:RL:263:LEU:HD12	1.99	0.44
45:SA:20:CYS:HA	45:SA:232:ALA:HB1	1.99	0.44
45:SC:135:PHE:HB2	45:SC:166:LYS:HG2	1.99	0.44
45:SC:328:VAL:HG11	45:SC:353:VAL:HG11	1.99	0.44
46:SD:86:ARG:CZ	46:TD:281:TYR:HB3	2.47	0.44
46:SF:345:ILE:HG13	45:SG:398:MET:HE1	1.99	0.44
45:SG:127:ASP:OD1	45:SG:128:ASN:N	2.50	0.44
45:SG:212:ILE:HD11	45:SG:300:ASN:HA	1.99	0.44
45:SK:98:ASP:CG	45:SK:100:ALA:H	2.20	0.44
46:TD:113:ILE:HG21	46:TD:150:LEU:HD22	2.00	0.44
46:TJ:347:ASN:ND2	45:TK:176:GLN:O	2.43	0.44
46:TL:68:LEU:HB2	46:TL:147:MET:HE3	1.99	0.44
46:TN:105:HIS:CE1	46:TN:150:LEU:HD12	2.52	0.44
46:UB:297:LYS:HD3	46:UB:297:LYS:O	2.16	0.44
45:UC:336:LYS:HE2	45:UC:351:PHE:HE1	1.81	0.44
45:UE:242:LEU:HD11	45:UE:252:ILE:HG23	1.99	0.44
46:UF:173:PRO:HD3	46:UF:380:ARG:NH1	2.32	0.44
46:UF:375:GLN:HG3	46:UF:379:LYS:NZ	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UG:21:TRP:CZ2	45:UG:65:ALA:HB2	2.52	0.44
46:UL:86:ARG:HE	46:UL:86:ARG:HA	1.82	0.44
46:UN:139:LEU:HD13	46:UN:168:SER:HB3	1.98	0.44
45:VA:2:ARG:HH12	46:VD:70:PRO:HG2	1.82	0.44
45:VA:140:SER:OG	47:VA:501:GTP:O2B	2.34	0.44
45:VA:141:VAL:HG11	45:VA:172:TYR:HA	1.99	0.44
45:VA:209:ILE:HA	45:VA:212:ILE:HG22	1.98	0.44
45:VA:332:ILE:HD12	45:VA:351:PHE:CE2	2.51	0.44
45:VA:404:PHE:CE1	46:VB:259:PRO:HA	2.52	0.44
46:VB:314:SER:HB3	46:VB:368:VAL:HG13	1.98	0.44
46:VD:189:VAL:HA	46:VD:192:LEU:HB2	1.99	0.44
46:VF:215:LEU:HB3	46:VF:217:LEU:HD23	1.98	0.44
45:VG:254:GLU:O	45:VG:255:PHE:HD1	2.00	0.44
45:VG:335:ILE:O	45:VG:338:LYS:HB3	2.17	0.44
45:VI:393:HIS:O	45:VI:397:LEU:HD23	2.16	0.44
46:VL:190:HIS:CD2	46:VL:411:ALA:HA	2.52	0.44
46:VN:205:GLU:HA	46:VN:208:TYR:CD1	2.51	0.44
45:WC:50:ASN:OD1	45:WC:51:THR:N	2.50	0.44
46:WD:31:ASP:OD1	46:WD:35:THR:N	2.34	0.44
45:WE:80:THR:O	45:WE:84:ARG:NH2	2.51	0.44
46:WF:233:MET:O	46:WF:236:VAL:HG12	2.18	0.44
45:WG:241:SER:OG	45:WG:250:VAL:O	2.23	0.44
46:WJ:210:ILE:HD11	46:WJ:299:MET:O	2.17	0.44
45:CE:8:HIS:HB2	45:CE:67:PHE:CD1	2.52	0.44
45:CE:152:LEU:O	45:CE:155:GLU:HG3	2.17	0.44
45:DC:426:ALA:HB1	45:DC:430:LYS:HZ1	1.81	0.44
1:0A:33:GLN:C	46:MB:320:ARG:HH22	2.21	0.44
1:0A:46:LYS:HE2	34:7R:67:TYR:CD2	2.52	0.44
9:0N:159:PRO:HD2	46:KN:227:HIS:ND1	2.32	0.44
16:1B:63:GLN:H	45:LC:84:ARG:NH2	2.15	0.44
3:1C:80:ARG:HH12	46:EL:359:LYS:HA	1.81	0.44
17:1F:56:LYS:NZ	46:GL:44:LEU:HB3	2.33	0.44
31:2I:90:TYR:HE1	45:GE:214:ARG:HG3	1.82	0.44
23:2O:185:ARG:NH2	46:VL:279:GLN:HE22	2.16	0.44
23:2O:288:LYS:HZ3	46:VH:359:LYS:HE2	1.81	0.44
15:2X:8:TYR:HB2	45:MI:357:TYR:CD1	2.52	0.44
35:4S:64:LEU:HA	35:4S:67:LYS:HG2	1.98	0.44
35:4S:83:ALA:HB1	46:WD:111:GLU:OE1	2.16	0.44
35:4S:102:LEU:HD23	35:4S:127:LEU:HD13	1.98	0.44
36:5A:72:LYS:HD3	36:5A:73:SER:O	2.18	0.44
36:5B:35:PHE:HB3	36:5B:46:ILE:HD13	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5E:157:ARG:HH12	46:ND:37:HIS:HB3	1.83	0.44
37:5H:22:LYS:NZ	37:5H:30:PRO:HD2	2.32	0.44
40:6G:163:LYS:HE3	46:VH:306:ARG:HH22	1.81	0.44
40:6G:285:MET:N	40:6G:285:MET:SD	2.91	0.44
41:6H:305:PHE:O	41:6H:306:LYS:HD2	2.17	0.44
10:6Q:20:LYS:NZ	10:6Q:22:LEU:HG	2.31	0.44
34:7R:143:VAL:HG23	46:AD:78:ALA:HB2	1.98	0.44
46:AF:28:HIS:C	46:AF:43:GLN:HE21	2.20	0.44
46:AH:215:LEU:HB3	46:AH:217:LEU:HD23	2.00	0.44
46:AH:268:ILE:HG22	46:AH:368:VAL:HG22	1.99	0.44
45:AK:150:GLY:O	45:AK:154:LEU:HD23	2.17	0.44
46:AL:122:LYS:HE2	46:AL:122:LYS:HB2	1.72	0.44
46:AL:238:CYS:SG	46:AL:318:ARG:HD2	2.57	0.44
46:BD:185:ALA:O	46:BD:189:VAL:HG23	2.17	0.44
46:BD:386:THR:O	46:BD:390:ARG:HG2	2.16	0.44
46:BF:6:HIS:HD2	46:BF:7:ILE:N	2.14	0.44
45:BG:200:VAL:HG13	45:BG:268:MET:CE	2.47	0.44
46:BL:201:VAL:HG23	46:BL:301:CYS:SG	2.57	0.44
45:CA:308:ARG:NH1	45:CA:342:GLN:OE1	2.50	0.44
46:CB:346:PRO:HG2	45:CC:394:LYS:NZ	2.32	0.44
45:CC:360:PRO:HG3	45:CC:374:ALA:HB2	1.99	0.44
46:CF:70:PRO:O	46:CF:74:ASP:CB	2.65	0.44
46:CH:117:LEU:HA	46:CH:120:VAL:HG22	1.99	0.44
45:CI:141:VAL:HG12	45:CI:171:ILE:O	2.17	0.44
46:CJ:289:LEU:HD13	46:CJ:365:VAL:HG23	1.98	0.44
45:DG:188:ILE:HD11	45:DG:391:LEU:HG	1.99	0.44
45:DG:208:ALA:O	45:DG:212:ILE:HG12	2.17	0.44
45:DG:297:GLU:OE2	45:DG:300:ASN:HB2	2.18	0.44
45:DI:69:ASP:OD2	45:DI:70:LEU:N	2.51	0.44
45:DI:111:GLY:O	45:DI:115:VAL:HG13	2.16	0.44
45:DK:286:LEU:O	45:DK:373:ARG:NH2	2.50	0.44
46:DL:48:ASN:O	46:DL:62:ARG:NH1	2.50	0.44
45:EA:141:VAL:HG11	45:EA:172:TYR:CD1	2.52	0.44
46:EB:64:ILE:HD11	46:EB:123:GLU:HG3	1.99	0.44
46:EB:324:LYS:HA	46:EB:327:ASP:OD1	2.17	0.44
45:EC:88:HIS:HB3	45:EC:91:GLN:HB2	1.98	0.44
45:EC:352:LYS:HA	46:ED:177:ASP:O	2.17	0.44
46:ED:67:ASP:OD1	46:ED:68:LEU:N	2.48	0.44
46:EF:175:VAL:HG22	46:EF:205:GLU:OE2	2.16	0.44
46:EF:334:GLN:HA	46:EF:341:PHE:CE2	2.52	0.44
46:EH:116:VAL:O	46:EH:120:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EJ:68:LEU:HD13	46:EJ:143:THR:OG1	2.16	0.44
45:EK:238:LEU:HD11	45:EK:255:PHE:HE1	1.82	0.44
45:FA:156:ARG:HG3	45:FA:160:ASP:OD2	2.18	0.44
46:FD:44:LEU:HD23	46:FD:44:LEU:HA	1.84	0.44
46:FF:100:ASN:ND2	46:FF:103:LYS:HG3	2.32	0.44
45:FG:205:ASP:OD1	45:FG:303:ALA:HA	2.17	0.44
46:FH:21:TRP:CZ3	46:FH:61:PRO:HB3	2.52	0.44
46:FH:66:MET:HG2	46:FH:116:VAL:HG21	1.99	0.44
46:FJ:190:HIS:CE1	46:FJ:414:ASN:HD22	2.35	0.44
45:FK:31:GLN:HB2	45:FK:35:GLN:O	2.17	0.44
45:FK:101:ASN:HA	45:FK:144:GLY:H	1.82	0.44
45:FK:326:LYS:HD3	46:FN:208:TYR:CD1	2.53	0.44
46:FN:113:ILE:HB	46:FN:154:LYS:HZ3	1.82	0.44
45:GA:107:HIS:ND1	45:GA:107:HIS:O	2.50	0.44
45:GA:336:LYS:HD3	45:GA:351:PHE:HE1	1.82	0.44
46:GD:308:GLY:HA2	46:GD:426:GLN:NE2	2.32	0.44
45:GE:296:PHE:HE1	45:GE:315:CYS:HG	1.61	0.44
46:GH:232:ALA:HB1	46:GH:268:ILE:HD12	1.98	0.44
45:GI:147:SER:HB2	45:GI:190:SER:HB3	1.98	0.44
45:GI:258:ASN:HD22	45:GI:352:LYS:HB2	1.81	0.44
46:GL:226:ASN:ND2	49:GL:502:GDP:HN1	2.14	0.44
45:GM:100:ALA:HB1	46:GN:252:LYS:HA	2.00	0.44
45:HA:56:THR:HG21	45:HA:60:LYS:HG2	1.99	0.44
45:HA:74:VAL:O	45:HA:77:GLU:HG3	2.17	0.44
45:HC:322:ASP:OD2	45:HC:373:ARG:NH1	2.50	0.44
46:HD:20:PHE:HZ	46:HD:50:TYR:CE1	2.36	0.44
45:HG:194:LEU:O	45:HG:198:THR:HG22	2.17	0.44
45:HG:257:THR:HG22	46:HJ:397:TRP:HH2	1.82	0.44
45:HI:298:PRO:HG3	45:HI:308:ARG:NH2	2.31	0.44
46:HL:190:HIS:NE2	46:HL:410:GLU:OE2	2.51	0.44
45:IC:227:LEU:O	45:IC:231:ILE:HG12	2.17	0.44
45:IE:387:VAL:O	45:IE:390:ARG:HG2	2.17	0.44
45:IG:91:GLN:HB3	45:IG:121:ARG:NH2	2.31	0.44
46:IH:228:LEU:HD12	46:IH:229:VAL:N	2.32	0.44
45:II:331:SER:O	45:II:335:ILE:HG12	2.17	0.44
45:II:336:LYS:HE3	45:II:351:PHE:HE1	1.82	0.44
46:IJ:3:GLU:HG3	46:IJ:62:ARG:NH1	2.32	0.44
46:IJ:217:LEU:HG	46:IJ:220:PRO:HD3	1.98	0.44
45:IM:414:GLU:CD	45:IM:416:GLY:H	2.21	0.44
46:IN:5:VAL:HG23	46:IN:7:ILE:HD11	1.99	0.44
45:JA:211:ASP:O	45:JA:215:ARG:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JA:390:ARG:HG3	45:JA:391:LEU:N	2.32	0.44
46:JB:3:GLU:HG3	46:JB:62:ARG:NH1	2.33	0.44
45:JE:419:SER:O	45:JE:422:ARG:N	2.50	0.44
45:JG:68:LEU:HD11	45:JG:118:CYS:SG	2.57	0.44
46:JJ:10:GLY:O	46:JJ:14:ASN:ND2	2.50	0.44
45:JM:102:ASN:ND2	45:JM:105:ARG:HG3	2.32	0.44
45:KA:66:VAL:HG11	45:KA:122:ILE:HD11	1.99	0.44
46:KB:201:VAL:HG23	46:KB:301:CYS:SG	2.57	0.44
45:KC:9:VAL:HG13	45:KC:139:ASN:HB3	1.99	0.44
45:KE:68:LEU:HD11	45:KE:118:CYS:SG	2.57	0.44
46:KH:164:MET:O	46:KH:197:ASP:HB2	2.18	0.44
46:KJ:67:ASP:O	46:KJ:92:PHE:HA	2.18	0.44
46:KJ:276:ARG:HD3	46:KJ:276:ARG:O	2.17	0.44
45:KK:174:SER:HB3	45:KK:177:VAL:O	2.17	0.44
45:KK:308:ARG:HB3	45:NK:282:TYR:CZ	2.52	0.44
45:KK:346:TRP:O	46:KN:388:MET:HG2	2.18	0.44
45:KM:49:PHE:HD2	45:KM:53:PHE:HB2	1.82	0.44
45:KM:88:HIS:HD2	45:KM:91:GLN:HB3	1.82	0.44
46:KN:342:VAL:HG13	46:KN:345:ILE:HG22	1.99	0.44
45:LC:19:ALA:HA	45:LC:22:GLU:HG2	2.00	0.44
46:LD:286:VAL:N	46:LD:287:PRO:HD2	2.33	0.44
45:LE:66:VAL:HG11	45:LE:122:ILE:HD11	1.99	0.44
46:LF:309:ARG:H	46:LF:372:THR:HG22	1.82	0.44
45:LG:222:PRO:O	46:LH:322:SER:HB2	2.18	0.44
45:LG:230:LEU:O	45:LG:234:VAL:HG23	2.18	0.44
45:LI:256:GLN:HB2	46:LL:397:TRP:CZ2	2.53	0.44
46:LJ:107:THR:HG23	46:LJ:108:GLU:OE1	2.17	0.44
45:MC:339:ARG:O	45:MC:339:ARG:HD3	2.17	0.44
46:MD:192:LEU:HD21	46:MD:199:CYS:HB2	1.99	0.44
46:MF:68:LEU:HD13	46:MF:143:THR:OG1	2.17	0.44
46:MH:104:GLY:O	46:MH:147:MET:HB2	2.17	0.44
45:MI:384:ILE:O	45:MI:387:VAL:HG22	2.17	0.44
45:MK:387:VAL:HA	45:MK:390:ARG:HG2	1.99	0.44
45:MK:422:ARG:HH12	45:MK:426:ALA:HB2	1.81	0.44
46:ML:132:GLY:HA3	46:ML:163:ILE:HG22	1.98	0.44
46:MN:330:MET:HA	46:MN:333:VAL:HG12	1.99	0.44
45:NA:9:VAL:HG13	45:NA:139:ASN:HB3	1.99	0.44
46:ND:200:MET:HB3	46:ND:266:PHE:HB2	1.98	0.44
46:NH:21:TRP:CZ3	46:NH:61:PRO:HB3	2.52	0.44
46:NJ:113:ILE:HD13	46:NJ:150:LEU:HD22	1.98	0.44
46:NL:6:HIS:O	46:NL:63:ALA:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:229:ARG:HH22	45:NM:367:ASP:H	1.64	0.44
46:NN:20:PHE:HZ	46:NN:50:TYR:HE1	1.65	0.44
46:NN:328:GLU:OE1	46:NN:329:GLN:HG2	2.17	0.44
46:OB:67:ASP:O	46:OB:92:PHE:HA	2.16	0.44
46:OD:60:VAL:HG21	46:OD:86:ARG:HG3	1.99	0.44
46:OF:39:ASP:H	46:OF:43:GLN:HE22	1.66	0.44
46:OF:230:SER:HA	46:OF:233:MET:HG2	2.00	0.44
46:OH:66:MET:HA	46:OH:91:VAL:O	2.16	0.44
46:OH:344:TRP:CE3	46:OH:345:ILE:HG23	2.52	0.44
46:OL:87:PRO:HA	46:OL:90:PHE:HD2	1.82	0.44
46:ON:116:VAL:HA	46:ON:119:VAL:HG12	1.99	0.44
45:PA:3:GLU:HB2	45:PA:129:CYS:SG	2.57	0.44
45:PA:181:VAL:HG22	46:PB:350:LYS:HZ3	1.82	0.44
45:PA:267:PHE:CD2	45:PA:388:PHE:HZ	2.35	0.44
45:PC:174:SER:HB2	45:PC:177:VAL:O	2.17	0.44
46:PD:156:ARG:NH2	46:PD:160:PRO:O	2.50	0.44
46:PD:259:PRO:HG2	46:PD:311:LEU:HD21	2.00	0.44
45:PG:280:LYS:O	45:PG:280:LYS:HD2	2.17	0.44
45:PG:330:ALA:O	45:PG:334:THR:HG23	2.16	0.44
46:PJ:133:PHE:CD1	46:PJ:155:VAL:HG11	2.52	0.44
46:PL:233:MET:O	46:PL:236:VAL:HG12	2.17	0.44
45:PM:154:LEU:HD21	45:PM:194:LEU:HD22	1.99	0.44
46:PN:67:ASP:O	46:PN:92:PHE:HA	2.17	0.44
46:PN:222:TYR:HD2	49:PN:502:GDP:C6	2.35	0.44
46:QB:66:MET:HE2	46:QB:147:MET:HG2	1.97	0.44
46:QF:288:GLU:O	46:QF:291:GLN:HG3	2.16	0.44
45:QG:324:VAL:HG11	45:QG:326:LYS:CE	2.47	0.44
45:QG:345:ASP:N	45:QG:345:ASP:OD2	2.49	0.44
46:QJ:391:ARG:HA	46:QJ:391:ARG:HD2	1.79	0.44
46:RD:238:CYS:SG	46:RD:318:ARG:NH1	2.90	0.44
45:RE:98:ASP:OD1	45:RE:99:ALA:N	2.50	0.44
45:RG:167:LEU:HD13	45:RG:200:VAL:HB	1.98	0.44
45:RG:419:SER:O	45:RG:422:ARG:N	2.50	0.44
46:RH:274:THR:HB	46:RH:282:ARG:HH21	1.82	0.44
46:RJ:317:PHE:HB2	46:RJ:353:ILE:HD13	1.99	0.44
46:RN:260:PHE:HB2	46:RN:263:LEU:HD13	1.99	0.44
46:SB:257:LEU:HB3	46:SB:266:PHE:HE1	1.82	0.44
46:SB:282:ARG:NH1	46:SB:288:GLU:OE1	2.50	0.44
46:SD:406:MET:O	46:SD:409:THR:N	2.49	0.44
45:SE:19:ALA:O	45:SE:22:GLU:HG2	2.18	0.44
45:SE:268:MET:HE2	45:SE:380:ASN:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:49:VAL:HG21	46:SF:241:ARG:HG2	1.98	0.44
45:SI:68:LEU:HD13	45:SI:93:ILE:HB	1.99	0.44
45:SI:171:ILE:HG23	45:SI:204:LEU:O	2.18	0.44
45:SK:64:ARG:NH1	45:SK:129:CYS:SG	2.90	0.44
46:SL:268:ILE:HG22	46:SL:368:VAL:HG22	1.98	0.44
46:SN:97:ALA:HB3	46:SN:143:THR:HB	2.00	0.44
46:TB:86:ARG:HA	46:UB:281:TYR:CE1	2.52	0.44
45:TC:372:MET:N	45:TC:372:MET:SD	2.91	0.44
46:TD:128:ASP:OD1	46:TD:129:CYS:N	2.47	0.44
46:TD:350:LYS:HA	45:TE:179:THR:O	2.16	0.44
46:TF:370:ASN:OD1	46:TF:422:TYR:OH	2.33	0.44
46:TH:164:MET:O	46:TH:197:ASP:HB2	2.17	0.44
46:TJ:257:LEU:HB3	46:TJ:266:PHE:CZ	2.52	0.44
45:UA:401:LYS:HE3	45:UA:401:LYS:HB2	1.74	0.44
45:UC:31:GLN:HB3	45:UC:32:PRO:HD2	1.98	0.44
46:UF:4:ILE:HB	46:UF:50:TYR:HE2	1.82	0.44
46:UF:105:HIS:CD2	46:UF:150:LEU:HB2	2.52	0.44
46:UF:403:MET:HE3	46:UF:404:ASP:H	1.82	0.44
46:UH:118:ASP:HA	46:UH:121:ARG:NH1	2.32	0.44
46:UH:192:LEU:O	46:UH:196:ALA:CB	2.65	0.44
46:UH:317:PHE:HD2	46:UH:363:MET:HE2	1.81	0.44
46:UJ:255:VAL:HG11	45:UK:100:ALA:O	2.17	0.44
46:UJ:350:LYS:NZ	45:UK:181:VAL:HG22	2.32	0.44
46:UL:398:TYR:O	46:UL:403:MET:HB2	2.17	0.44
45:VA:105:ARG:NH1	46:VB:251:ARG:HD3	2.32	0.44
45:VG:229:ARG:HH12	45:VG:363:VAL:HG21	1.83	0.44
45:VG:301:MET:HE2	45:VG:307:PRO:HD3	1.98	0.44
45:VG:332:ILE:HD11	45:VG:351:PHE:CG	2.52	0.44
45:VI:98:ASP:OD1	45:VI:99:ALA:N	2.50	0.44
46:VJ:3:GLU:HA	46:VJ:49:VAL:HG23	1.99	0.44
46:VJ:21:TRP:CZ2	46:VJ:63:ALA:HB2	2.53	0.44
46:VJ:73:MET:HE3	46:VJ:92:PHE:HB3	2.00	0.44
45:VK:262:TYR:OH	46:VN:391:ARG:HG2	2.17	0.44
45:WE:3:GLU:O	45:WE:133:GLN:N	2.40	0.44
45:WG:98:ASP:OD1	45:WG:99:ALA:N	2.50	0.44
45:WI:151:SER:O	45:WI:155:GLU:OE1	2.34	0.44
45:WI:430:LYS:O	45:WI:433:GLU:HG3	2.16	0.44
45:WK:178:SER:OG	46:WL:347:ASN:ND2	2.35	0.44
1:0A:136:ASN:HA	46:AB:320:ARG:HH12	1.81	0.44
4:0D:94:ASN:OD1	45:EC:364:PRO:HB3	2.17	0.44
17:1F:167:HIS:H	45:GK:96:LYS:HG3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:111:TYR:HB3	46:HF:53:GLU:CD	2.38	0.44
24:1P:337:GLN:CD	45:TC:29:GLY:HA2	2.38	0.44
4:2D:44:TYR:CE1	46:DJ:48:ASN:HB3	2.52	0.44
5:2E:53:LYS:HE2	34:5R:382:TYR:CE1	2.51	0.44
31:3I:254:ARG:HH12	45:FI:79:ARG:HH21	1.65	0.44
25:3R:152:LEU:HA	46:AN:78:ALA:O	2.16	0.44
35:4S:209:ARG:CZ	46:WD:115:SER:HA	2.47	0.44
37:5G:173:LYS:HZ3	46:KL:262:ARG:HG2	1.82	0.44
40:6G:270:THR:HG23	45:VA:298:PRO:HG3	1.98	0.44
34:6R:249:LEU:HA	45:CM:370:LYS:NZ	2.33	0.44
34:6R:440:ARG:HD2	34:6R:440:ARG:HA	1.69	0.44
34:6R:581:THR:OG1	34:6R:584:GLU:OE1	2.23	0.44
34:7R:318:TYR:HB3	34:7R:321:MET:HG2	2.00	0.44
34:7R:440:ARG:NH2	34:7R:442:PHE:HZ	2.16	0.44
45:AA:183:GLU:N	45:AA:184:PRO:HD2	2.32	0.44
45:AA:195:LEU:HD21	45:AA:264:ARG:HD2	1.99	0.44
46:AB:391:ARG:HA	46:AB:391:ARG:HD2	1.77	0.44
46:AD:77:ARG:HB3	46:AD:77:ARG:NH1	2.33	0.44
46:AF:121:ARG:O	46:AF:125:GLU:HG3	2.18	0.44
45:AG:98:ASP:OD1	45:AG:99:ALA:N	2.51	0.44
46:AH:3:GLU:OE2	46:AH:127:CYS:HB2	2.17	0.44
46:AJ:238:CYS:SG	46:AJ:239:CYS:N	2.90	0.44
45:AK:237:SER:HA	45:AK:320:ARG:HH11	1.82	0.44
46:AL:233:MET:O	46:AL:236:VAL:HG12	2.17	0.44
46:AL:403:MET:HE3	46:AL:408:PHE:CZ	2.53	0.44
45:AM:336:LYS:HE3	45:AM:336:LYS:HB2	1.74	0.44
46:AN:208:TYR:CE2	46:AN:225:LEU:HD21	2.53	0.44
45:BA:210:TYR:CE1	45:BA:227:LEU:HD11	2.51	0.44
45:BA:264:ARG:NH1	45:BA:431:ASP:OD2	2.50	0.44
46:BD:178:THR:HG22	46:BD:179:VAL:H	1.83	0.44
45:BE:226:ASN:ND2	45:BE:367:ASP:OD2	2.50	0.44
45:BE:384:ILE:O	45:BE:387:VAL:HG22	2.17	0.44
46:BF:325:GLU:HA	46:BF:328:GLU:HG3	1.99	0.44
45:BG:425:LEU:HD23	45:BG:425:LEU:HA	1.78	0.44
45:BK:88:HIS:CE1	45:BK:90:GLU:HG3	2.52	0.44
45:BK:215:ARG:NE	45:BK:216:ASN:OD1	2.36	0.44
45:BM:19:ALA:HA	45:BM:22:GLU:OE1	2.17	0.44
45:BM:272:TYR:HD2	45:BM:275:ILE:HD11	1.82	0.44
46:BN:317:PHE:HB2	46:BN:353:ILE:HD13	1.98	0.44
46:CB:15:GLN:OE1	46:CB:226:ASN:ND2	2.50	0.44
45:CC:152:LEU:O	45:CC:155:GLU:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CK:183:GLU:N	45:CK:184:PRO:HD2	2.32	0.44
45:CM:21:TRP:CZ2	45:CM:65:ALA:HB2	2.52	0.44
46:CN:178:THR:HB	46:CN:181:GLU:HG3	1.98	0.44
46:DB:173:PRO:HG2	46:DB:380:ARG:HD3	2.00	0.44
46:DB:260:PHE:HB2	46:DB:263:LEU:HD13	1.99	0.44
45:DG:185:TYR:HD2	45:DG:408:TYR:CE1	2.35	0.44
45:DG:211:ASP:HA	45:DG:214:ARG:NH1	2.32	0.44
46:DL:138:SER:HA	46:DL:169:VAL:HG22	2.00	0.44
45:DM:241:SER:OG	45:DM:250:VAL:O	2.28	0.44
45:EA:324:VAL:O	45:EA:328:VAL:HG23	2.17	0.44
46:EB:207:LEU:HB3	46:EB:225:LEU:HD22	1.99	0.44
46:ED:100:ASN:HB3	46:ED:103:LYS:HB2	1.98	0.44
45:EE:22:GLU:HG3	45:EE:23:LEU:N	2.33	0.44
45:EE:216:ASN:HB3	45:EE:275:ILE:O	2.18	0.44
46:EF:116:VAL:HA	46:EF:119:VAL:HG12	1.99	0.44
46:EF:282:ARG:HE	46:EF:283:ALA:N	2.12	0.44
46:EJ:138:SER:HA	46:EJ:169:VAL:HB	1.99	0.44
46:EL:110:ALA:O	46:EL:113:ILE:HG22	2.17	0.44
45:FA:117:LEU:O	45:FA:121:ARG:HG2	2.16	0.44
45:FC:318:MET:O	45:FC:375:VAL:HA	2.18	0.44
46:FD:5:VAL:HG11	46:FD:123:GLU:HG3	1.99	0.44
46:FD:66:MET:HA	46:FD:91:VAL:O	2.16	0.44
45:FE:137:VAL:HG23	45:FE:168:GLY:HA2	2.00	0.44
46:FF:173:PRO:HD2	46:FF:174:LYS:NZ	2.32	0.44
45:FG:209:ILE:HD12	45:FG:227:LEU:HB3	1.99	0.44
46:FH:201:VAL:HG23	46:FH:301:CYS:SG	2.58	0.44
46:FJ:66:MET:HE1	46:FJ:116:VAL:HG21	2.00	0.44
45:FK:171:ILE:HA	45:FK:204:LEU:HB2	1.98	0.44
46:FL:397:TRP:N	46:FL:397:TRP:CD1	2.85	0.44
45:GA:73:THR:OG1	46:GB:2:ARG:NH2	2.50	0.44
45:GA:349:THR:HG21	46:GD:176:SER:HB2	2.00	0.44
45:GE:55:GLU:HG3	45:GE:57:GLY:H	1.82	0.44
46:GF:116:VAL:HA	46:GF:119:VAL:HG12	1.99	0.44
45:GG:200:VAL:HG13	45:GG:268:MET:CE	2.48	0.44
45:HA:104:ALA:HB2	45:HA:413:MET:CE	2.47	0.44
46:HB:49:VAL:C	46:HB:62:ARG:HH21	2.19	0.44
46:HB:238:CYS:SG	46:HB:239:CYS:N	2.90	0.44
45:HC:387:VAL:HA	45:HC:390:ARG:HG2	1.99	0.44
46:HD:184:ASN:OD1	46:HD:185:ALA:N	2.50	0.44
46:HD:221:THR:HG23	46:HD:224:ASP:H	1.82	0.44
45:HE:21:TRP:CZ2	45:HE:65:ALA:HB2	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HF:304:ASP:OD2	46:HF:306:ARG:HG3	2.16	0.44
45:HI:115:VAL:O	45:HI:119:LEU:HD23	2.18	0.44
46:HL:121:ARG:HG3	46:HL:121:ARG:HH11	1.81	0.44
45:IC:5:ILE:HB	45:IC:135:PHE:CD1	2.52	0.44
45:IC:313:MET:HB2	45:IC:380:ASN:O	2.17	0.44
46:IH:45:GLU:O	46:IH:46:ARG:HD3	2.18	0.44
45:II:250:VAL:HA	45:II:254:GLU:OE2	2.17	0.44
45:II:414:GLU:CD	45:II:416:GLY:H	2.20	0.44
46:IJ:64:ILE:HD11	46:IJ:123:GLU:HG3	1.98	0.44
46:IL:178:THR:HG22	46:IL:180:VAL:H	1.82	0.44
46:IL:314:SER:OG	46:IL:350:LYS:HB3	2.17	0.44
46:IN:293:MET:HG3	46:IN:294:PHE:HD2	1.82	0.44
45:JA:183:GLU:N	45:JA:184:PRO:HD2	2.32	0.44
46:JB:116:VAL:HA	46:JB:119:VAL:HG22	1.99	0.44
45:JC:107:HIS:ND1	45:JC:107:HIS:O	2.51	0.44
45:JC:340:THR:HG23	45:JC:341:ILE:HG23	1.99	0.44
45:JE:209:ILE:HD11	45:JE:302:MET:HG3	1.99	0.44
45:JE:265:ILE:HG23	45:JE:432:TYR:CZ	2.53	0.44
45:JI:79:ARG:NH2	45:JI:92:LEU:O	2.50	0.44
45:JK:69:ASP:OD1	45:JK:70:LEU:N	2.50	0.44
45:JM:205:ASP:OD1	45:JM:303:ALA:HA	2.16	0.44
46:JN:157:GLU:HA	46:JN:157:GLU:OE1	2.17	0.44
45:KC:183:GLU:N	45:KC:184:PRO:HD2	2.33	0.44
45:KG:221:ARG:HA	46:KH:324:LYS:HZ3	1.81	0.44
46:KH:44:LEU:HD12	46:KH:47:ILE:HD13	1.99	0.44
45:KI:107:HIS:ND1	45:KI:107:HIS:O	2.51	0.44
46:KL:326:VAL:O	46:KL:330:MET:HG2	2.18	0.44
46:KN:28:HIS:HA	46:KN:43:GLN:OE1	2.17	0.44
46:KN:200:MET:HA	46:KN:200:MET:HE3	1.99	0.44
45:LA:338:LYS:HZ2	45:LA:340:THR:N	2.14	0.44
46:LB:139:LEU:HD22	46:LB:188:SER:CB	2.47	0.44
45:LC:76:ASP:HA	45:LC:79:ARG:HG2	1.99	0.44
45:LE:31:GLN:HG2	45:LE:33:ASP:OD1	2.17	0.44
45:LG:262:TYR:OH	46:LJ:391:ARG:O	2.35	0.44
46:LH:134:GLN:HG3	46:LH:165:GLU:OE2	2.17	0.44
46:LH:395:LEU:HD22	46:LH:408:PHE:HE2	1.83	0.44
46:LJ:222:TYR:HD2	49:LJ:501:GDP:C6	2.35	0.44
46:LJ:380:ARG:O	46:LJ:383:GLU:HG3	2.17	0.44
46:LL:345:ILE:O	46:LL:345:ILE:HG13	2.18	0.44
45:MA:152:LEU:HA	45:MA:155:GLU:OE2	2.17	0.44
46:MD:21:TRP:CZ3	46:MD:61:PRO:HB3	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:MD:211:CYS:SG	46:MD:220:PRO:HB3	2.58	0.44
45:ME:93:ILE:HG22	45:ME:114:ILE:HD11	1.98	0.44
45:ME:288:VAL:HA	45:ME:291:ILE:HG12	1.98	0.44
46:MJ:153:SER:O	46:MJ:157:GLU:HG3	2.17	0.44
46:MJ:178:THR:HG22	46:MJ:180:VAL:H	1.81	0.44
45:MK:258:ASN:ND2	46:MN:178:THR:HG23	2.32	0.44
45:NA:270:SER:HB2	45:NA:378:ILE:HD13	1.99	0.44
45:NA:331:SER:O	45:NA:335:ILE:HG12	2.17	0.44
45:NE:325:PRO:HB2	46:NH:208:TYR:OH	2.17	0.44
46:NH:201:VAL:O	46:NH:202:ILE:HD13	2.17	0.44
46:NH:350:LYS:HA	46:NH:350:LYS:HE2	1.99	0.44
45:NI:392:ASP:OD1	45:NI:422:ARG:NH1	2.45	0.44
46:NJ:173:PRO:HD3	46:NJ:380:ARG:CZ	2.47	0.44
46:NL:4:ILE:HG13	46:NL:132:GLY:O	2.17	0.44
46:NL:405:GLU:HA	46:NL:408:PHE:HD2	1.82	0.44
45:NM:91:GLN:CG	45:NM:121:ARG:HH21	2.30	0.44
45:NM:116:ASP:OD1	45:NM:117:LEU:N	2.49	0.44
45:NM:224:TYR:HD1	45:NM:227:LEU:HD11	1.82	0.44
45:NM:270:SER:HA	45:NM:377:MET:O	2.18	0.44
46:NN:19:LYS:HD3	46:NN:19:LYS:HA	1.81	0.44
46:NN:317:PHE:CD2	46:NN:365:VAL:HG22	2.53	0.44
45:OA:105:ARG:HA	45:OA:109:THR:HG23	1.99	0.44
45:OA:419:SER:O	45:OA:423:GLU:HG2	2.18	0.44
45:OE:10:GLY:O	45:OE:14:ILE:HG12	2.16	0.44
45:OE:205:ASP:OD1	45:OE:303:ALA:HA	2.17	0.44
45:OG:49:PHE:HB2	45:OG:53:PHE:HB2	2.00	0.44
46:OL:107:THR:OG1	46:OL:108:GLU:OE1	2.25	0.44
45:OM:222:PRO:HG2	46:ON:324:LYS:CE	2.46	0.44
45:OM:265:ILE:HG12	45:OM:432:TYR:CE1	2.50	0.44
46:PB:237:THR:HG22	46:PB:250:LEU:HD21	1.98	0.44
46:PD:237:THR:HG22	46:PD:250:LEU:HD21	1.98	0.44
46:PH:174:LYS:NZ	46:PH:380:ARG:HH12	2.15	0.44
45:PI:322:ASP:OD2	45:PI:373:ARG:NH1	2.51	0.44
45:PK:340:THR:HG23	45:PK:341:ILE:HG12	1.99	0.44
45:PM:269:LEU:HD23	45:PM:379:SER:O	2.18	0.44
46:QD:133:PHE:O	46:QD:164:MET:HA	2.16	0.44
45:QG:211:ASP:HA	45:QG:214:ARG:NE	2.30	0.44
45:QG:242:LEU:HD21	45:QG:251:ASP:HA	1.99	0.44
46:QJ:10:GLY:O	46:QJ:14:ASN:ND2	2.50	0.44
46:QJ:105:HIS:CE1	46:QJ:150:LEU:HD13	2.53	0.44
46:RB:116:VAL:HA	46:RB:119:VAL:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RE:12:GLY:HA2	45:RE:15:GLN:NE2	2.32	0.44
46:RF:252:LYS:HZ3	45:RG:100:ALA:HA	1.81	0.44
46:RF:290:THR:OG1	46:RF:329:GLN:NE2	2.22	0.44
45:RG:85:GLN:OE1	45:RG:85:GLN:N	2.48	0.44
45:RG:141:VAL:HG12	45:RG:171:ILE:O	2.17	0.44
45:RG:157:LEU:HD22	45:RG:166:LYS:HE2	1.99	0.44
46:RH:156:ARG:HH21	46:RH:164:MET:CG	2.31	0.44
45:RI:141:VAL:HG12	45:RI:171:ILE:O	2.17	0.44
46:RJ:4:ILE:HG13	46:RJ:132:GLY:O	2.17	0.44
46:RJ:203:ASP:OD1	46:RJ:206:ALA:N	2.35	0.44
45:RM:91:GLN:OE1	45:RM:91:GLN:N	2.50	0.44
46:RN:318:ARG:HH11	46:RN:358:PRO:HG3	1.80	0.44
46:SF:295:ASP:OD1	46:SF:296:ALA:N	2.50	0.44
46:SF:316:LEU:HG	46:SF:352:SER:HB2	1.98	0.44
46:SH:267:MET:HB2	46:SH:299:MET:CE	2.47	0.44
45:SI:5:ILE:HB	45:SI:135:PHE:CD1	2.52	0.44
45:SI:71:GLU:O	45:SI:71:GLU:HG2	2.18	0.44
45:SK:82:THR:HG23	45:SK:83:TYR:HD1	1.83	0.44
45:SK:268:MET:HB2	45:SK:379:SER:O	2.17	0.44
45:SK:430:LYS:HA	45:SK:433:GLU:OE2	2.18	0.44
46:SL:221:THR:HG23	46:SL:224:ASP:H	1.81	0.44
46:SL:322:SER:HB2	45:SM:222:PRO:O	2.16	0.44
46:TB:240:LEU:HD11	46:TB:249:ASP:HA	1.98	0.44
46:TB:292:GLN:HA	46:TB:295:ASP:OD1	2.17	0.44
46:TD:226:ASN:HA	46:TD:229:VAL:HG12	2.00	0.44
46:TD:303:ALA:HA	46:TD:376:GLU:OE2	2.18	0.44
45:TE:102:ASN:ND2	45:TE:105:ARG:HG3	2.33	0.44
46:TF:153:SER:O	46:TF:157:GLU:HG2	2.17	0.44
46:TF:317:PHE:CD1	46:TF:365:VAL:HG22	2.51	0.44
45:TG:91:GLN:OE1	45:TG:91:GLN:N	2.51	0.44
46:TH:167:PHE:CE2	46:TH:233:MET:HG2	2.52	0.44
45:TI:187:SER:O	45:TI:191:THR:HG23	2.17	0.44
46:TJ:41:ASP:OD1	46:TJ:42:LEU:HD12	2.16	0.44
46:TJ:268:ILE:H	46:TJ:299:MET:HE1	1.82	0.44
46:TL:282:ARG:HE	46:TL:283:ALA:N	2.14	0.44
45:TM:332:ILE:HG22	45:TM:336:LYS:NZ	2.32	0.44
46:UF:221:THR:OG1	46:UF:222:TYR:N	2.50	0.44
46:UH:318:ARG:HH11	46:UH:358:PRO:HG3	1.82	0.44
46:UL:245:GLN:NE2	46:UL:355:ASP:OD1	2.49	0.44
45:UM:81:GLY:H	45:UM:84:ARG:HE	1.66	0.44
45:UM:414:GLU:CD	45:UM:416:GLY:H	2.21	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:22:GLU:O	45:VA:26:LEU:HD23	2.17	0.44
45:VA:113:GLU:OE1	45:VA:113:GLU:N	2.42	0.44
45:VA:117:LEU:O	45:VA:121:ARG:HG2	2.17	0.44
45:VC:88:HIS:ND1	45:VC:90:GLU:HG3	2.32	0.44
46:VD:39:ASP:OD1	46:VD:40:SER:N	2.50	0.44
45:VE:356:ASN:OD1	45:VE:357:TYR:N	2.50	0.44
46:VF:418:LEU:HD12	46:VF:421:GLU:OE1	2.18	0.44
46:VH:5:VAL:HG12	46:VH:62:ARG:HD3	1.99	0.44
46:VJ:260:PHE:HB2	46:VJ:263:LEU:HD13	1.98	0.44
46:VL:318:ARG:NH1	46:VL:358:PRO:HG3	2.32	0.44
45:WA:255:PHE:HA	45:WA:259:LEU:HD13	1.98	0.44
46:WB:69:GLU:HA	46:WB:69:GLU:OE1	2.17	0.44
46:WB:321:MET:HB3	46:WB:325:GLU:OE2	2.17	0.44
46:WD:39:ASP:H	46:WD:43:GLN:HE22	1.64	0.44
46:WF:12:CYS:O	46:WF:16:ILE:HG12	2.17	0.44
46:WH:263:LEU:HG	46:WH:422:TYR:HD1	1.82	0.44
46:WJ:398:TYR:O	46:WJ:403:MET:HB2	2.18	0.44
45:WK:404:PHE:CD1	46:WL:259:PRO:HA	2.52	0.44
46:WN:69:GLU:HA	46:WN:69:GLU:OE2	2.17	0.44
46:WN:267:MET:CE	46:WN:299:MET:HB2	2.47	0.44
45:CE:54:SER:HB3	45:CE:64:ARG:NH2	2.32	0.44
27:2C:25:LYS:NZ	45:LI:362:VAL:O	2.37	0.44
20:2K:429:HIS:NE2	45:GE:282:TYR:CZ	2.85	0.44
21:2L:870:ARG:HE	46:CJ:359:LYS:HZ3	1.65	0.44
24:2P:414:ASN:ND2	46:TL:276:ARG:O	2.50	0.44
25:2R:29:LYS:HZ3	45:MG:47:ASP:HB3	1.81	0.44
25:2R:29:LYS:NZ	45:MG:47:ASP:HB3	2.32	0.44
27:3C:218:ARG:CD	46:KB:320:ARG:HH11	2.30	0.44
34:4R:189:GLU:HA	34:4R:192:VAL:HG12	1.99	0.44
34:4R:253:ARG:O	34:4R:253:ARG:HG3	2.17	0.44
34:4R:391:PHE:CD2	46:EF:215:LEU:HD21	2.52	0.44
34:4R:536:ARG:HH11	34:4R:609:LEU:HA	1.82	0.44
15:4X:38:ILE:HA	15:4X:41:GLN:HG3	2.00	0.44
36:5A:138:ARG:HH12	46:ND:357:PRO:CD	2.23	0.44
36:5B:154:ASP:O	36:5B:156:VAL:N	2.48	0.44
37:5E:60:TRP:HA	46:OB:279:GLN:OE1	2.17	0.44
35:5S:92:GLU:OE1	35:5S:95:LEU:HG	2.18	0.44
35:5S:189:VAL:HA	35:5S:192:MET:CE	2.48	0.44
35:5S:198:LEU:H	35:5S:198:LEU:HD23	1.82	0.44
40:6G:138:LYS:NZ	45:VG:298:PRO:HD3	2.32	0.44
40:6G:163:LYS:HD2	46:VH:296:ALA:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6H:329:LEU:HB3	46:FJ:361:LEU:HD21	2.00	0.44
10:6Q:65:PRO:HA	10:6Q:153:ARG:HH22	1.81	0.44
34:6R:12:LEU:HB2	34:6R:15:HIS:CD2	2.52	0.44
46:AB:58:ARG:NH2	46:BB:281:TYR:HA	2.32	0.44
46:AB:97:ALA:HA	46:AB:103:LYS:HE3	2.00	0.44
45:AC:386:GLU:O	45:AC:389:SER:OG	2.23	0.44
46:AD:5:VAL:HG12	46:AD:62:ARG:HD3	2.00	0.44
46:AD:16:ILE:HD13	46:AD:226:ASN:OD1	2.17	0.44
45:AE:56:THR:HG23	45:AE:58:ALA:H	1.81	0.44
46:AH:184:ASN:OD1	46:AH:185:ALA:N	2.51	0.44
46:AH:281:TYR:OH	46:MH:83:GLN:O	2.27	0.44
45:AK:265:ILE:HG22	45:AK:380:ASN:HD21	1.82	0.44
46:AN:124:ALA:O	46:AN:130:LEU:HD21	2.18	0.44
45:BC:319:TYR:CE2	45:BC:328:VAL:HG22	2.52	0.44
46:BD:87:PRO:HA	46:BD:90:PHE:CD2	2.48	0.44
46:BD:286:VAL:HG12	46:BD:329:GLN:OE1	2.17	0.44
45:BE:19:ALA:HA	45:BE:22:GLU:OE1	2.17	0.44
45:BE:121:ARG:HH12	45:BE:124:LYS:HD2	1.83	0.44
46:BF:97:ALA:HA	46:BF:103:LYS:HE2	1.99	0.44
46:BH:22:GLU:HG2	46:BH:81:PHE:CD1	2.52	0.44
46:BH:335:ASN:HB2	46:BH:336:LYS:HZ2	1.80	0.44
45:BI:224:TYR:HD1	47:BI:501:GTP:C6	2.35	0.44
46:BJ:20:PHE:CD1	46:BJ:233:MET:HG2	2.53	0.44
46:BJ:65:LEU:HD11	46:BJ:85:PHE:CD1	2.52	0.44
45:BM:186:ASN:OD1	45:BM:187:SER:N	2.50	0.44
45:BM:217:LEU:HD11	45:BM:367:ASP:HB3	1.99	0.44
46:BN:324:LYS:HE2	46:BN:324:LYS:HB2	1.56	0.44
45:CA:326:LYS:HE3	46:CB:219:THR:HA	1.99	0.44
45:CC:288:VAL:HA	45:CC:291:ILE:HG12	1.98	0.44
46:CH:7:ILE:HD13	46:CH:64:ILE:HB	2.00	0.44
46:CJ:306:ARG:HB2	46:CJ:340:TYR:HE1	1.82	0.44
46:CJ:324:LYS:HG3	46:CJ:325:GLU:N	2.33	0.44
45:CK:200:VAL:HG13	45:CK:268:MET:CE	2.47	0.44
45:CK:352:LYS:HZ1	46:CL:178:THR:CA	2.19	0.44
46:CL:77:ARG:NH1	46:CL:83:GLN:HA	2.31	0.44
46:DB:346:PRO:HD3	45:DC:397:LEU:HD23	2.00	0.44
46:DL:210:ILE:HD11	46:DL:299:MET:O	2.17	0.44
46:DL:324:LYS:HD2	46:DL:324:LYS:N	2.33	0.44
46:ED:268:ILE:HG22	46:ED:368:VAL:HG22	1.98	0.44
46:EF:117:LEU:HA	46:EF:120:VAL:HG12	1.99	0.44
46:EF:207:LEU:HD23	46:EF:300:MET:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EN:15:GLN:NE2	49:EN:501:GDP:C5	2.85	0.44
45:FA:333:ALA:O	45:FA:337:THR:HG23	2.18	0.44
46:FD:324:LYS:HA	46:FD:324:LYS:HD2	1.71	0.44
45:FG:98:ASP:OD1	45:FG:99:ALA:N	2.50	0.44
45:FG:188:ILE:HD12	45:FG:425:LEU:HD11	1.99	0.44
46:FH:224:ASP:O	46:FH:228:LEU:HD23	2.17	0.44
45:FI:224:TYR:HE2	46:FJ:246:LEU:HD11	1.82	0.44
45:FM:21:TRP:CZ2	45:FM:65:ALA:HB2	2.53	0.44
46:FN:178:THR:HG22	46:FN:180:VAL:H	1.82	0.44
46:FN:268:ILE:HG22	46:FN:368:VAL:HG22	1.98	0.44
46:GB:64:ILE:HD11	46:GB:123:GLU:HG3	1.98	0.44
45:GC:116:ASP:O	45:GC:119:LEU:HG	2.18	0.44
45:GC:133:GLN:HB3	45:GC:252:ILE:HD11	1.99	0.44
46:GD:379:LYS:O	46:GD:383:GLU:HG2	2.18	0.44
46:GF:344:TRP:CE3	46:GF:345:ILE:HG23	2.53	0.44
46:GJ:86:ARG:HH11	46:HJ:281:TYR:HE2	1.64	0.44
45:GM:109:THR:HG22	45:GM:110:ILE:HG23	1.99	0.44
45:GM:140:SER:OG	47:GM:501:GTP:O2B	2.35	0.44
46:GN:248:SER:HA	46:GN:252:LYS:HD2	1.99	0.44
46:GN:391:ARG:HA	46:GN:391:ARG:HD2	1.73	0.44
45:HA:22:GLU:HG3	45:HA:83:TYR:OH	2.18	0.44
45:HA:76:ASP:OD2	46:HB:46:ARG:NH2	2.50	0.44
46:HB:288:GLU:HA	46:HB:291:GLN:HG3	1.99	0.44
45:HC:288:VAL:HA	45:HC:291:ILE:HG22	1.98	0.44
46:HD:178:THR:HG22	46:HD:180:VAL:H	1.82	0.44
45:HG:276:ILE:HD11	45:HG:280:LYS:HG3	1.98	0.44
46:HH:31:ASP:OD2	46:HH:33:THR:OG1	2.36	0.44
45:HM:171:ILE:HG23	45:HM:204:LEU:O	2.17	0.44
46:HN:12:CYS:O	46:HN:16:ILE:HG12	2.17	0.44
45:IA:284:GLU:HG3	45:IA:286:LEU:HD23	1.99	0.44
45:IA:434:GLU:O	45:IA:437:ILE:HG22	2.18	0.44
46:ID:267:MET:HB3	46:ID:267:MET:HE2	1.87	0.44
45:IG:170:THR:HG1	45:IG:172:TYR:HE2	1.60	0.44
45:IG:414:GLU:CD	45:IG:416:GLY:H	2.19	0.44
46:IH:69:GLU:HA	46:IH:70:PRO:HD3	1.84	0.44
45:II:209:ILE:HD12	45:II:209:ILE:H	1.82	0.44
45:II:231:ILE:O	45:II:235:ILE:HG12	2.18	0.44
46:IJ:16:ILE:HD13	46:IJ:226:ASN:OD1	2.17	0.44
46:IJ:137:HIS:O	46:IJ:168:SER:HA	2.17	0.44
45:IK:195:LEU:HD21	45:IK:264:ARG:NH2	2.33	0.44
46:IL:7:ILE:HG22	46:IL:64:ILE:HB	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:99:ASN:HA	46:IL:142:GLY:H	1.81	0.44
45:JC:371:VAL:HG12	45:JC:373:ARG:H	1.81	0.44
46:JD:372:THR:HA	46:JD:422:TYR:CE2	2.53	0.44
45:JE:90:GLU:HG2	45:KE:280:LYS:HZ2	1.83	0.44
45:JE:260:VAL:HG13	45:JE:260:VAL:O	2.18	0.44
45:JG:194:LEU:O	45:JG:198:THR:HG22	2.18	0.44
45:JG:420:GLU:OE2	45:NG:308:ARG:HD2	2.17	0.44
45:JI:184:PRO:O	45:JI:188:ILE:HG12	2.17	0.44
45:JI:231:ILE:O	45:JI:235:ILE:HG12	2.17	0.44
45:JK:304:LYS:HA	45:JK:304:LYS:HD2	1.77	0.44
45:JK:422:ARG:NH1	45:JK:422:ARG:O	2.51	0.44
45:JK:430:LYS:HA	45:JK:433:GLU:HG3	1.98	0.44
45:KA:9:VAL:HG13	45:KA:139:ASN:HB3	1.99	0.44
45:KA:102:ASN:ND2	45:KA:105:ARG:HG3	2.33	0.44
46:KD:342:VAL:HG13	46:KD:345:ILE:HG22	1.99	0.44
45:KE:259:LEU:HD21	45:KE:316:SER:HB2	1.99	0.44
46:KH:145:SER:OG	46:KH:188:SER:HB3	2.18	0.44
46:KH:286:VAL:HG12	46:KH:329:GLN:HG3	1.98	0.44
46:KH:405:GLU:HA	46:KH:408:PHE:HD2	1.81	0.44
46:KJ:375:GLN:OE1	46:KJ:423:GLN:NE2	2.50	0.44
45:KM:116:ASP:OD1	45:KM:117:LEU:N	2.49	0.44
46:KN:254:ALA:O	46:KN:258:ILE:HG12	2.18	0.44
45:LA:119:LEU:O	45:LA:123:ARG:HG2	2.17	0.44
46:LB:318:ARG:HB3	46:LB:357:PRO:HA	2.00	0.44
45:LC:10:GLY:O	45:LC:14:ILE:HG12	2.18	0.44
46:LF:313:ALA:HB3	46:LF:349:ILE:CD1	2.48	0.44
46:LF:409:THR:O	46:LF:412:GLU:HG3	2.17	0.44
45:LG:69:ASP:OD1	45:LG:71:GLU:HG3	2.16	0.44
46:LH:405:GLU:O	46:LH:409:THR:HG23	2.17	0.44
45:LK:41:THR:HG22	45:LK:41:THR:O	2.16	0.44
45:LM:40:LYS:O	45:LM:41:THR:HG22	2.18	0.44
45:LM:171:ILE:O	45:LM:171:ILE:HG13	2.17	0.44
45:LM:424:ASP:O	45:LM:428:LEU:HD23	2.17	0.44
46:MD:159:TYR:HB3	46:MD:162:ARG:HG3	2.00	0.44
45:ME:107:HIS:ND1	45:ME:107:HIS:O	2.51	0.44
46:MJ:201:VAL:O	46:MJ:202:ILE:HD13	2.17	0.44
45:MM:322:ASP:OD1	45:MM:373:ARG:NH1	2.49	0.44
46:MN:225:LEU:O	46:MN:229:VAL:HG23	2.17	0.44
46:MN:238:CYS:SG	46:MN:318:ARG:HD2	2.58	0.44
45:NA:24:PHE:O	45:NA:27:GLU:HG3	2.17	0.44
45:NA:317:MET:HB3	45:NA:319:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NB:328:GLU:O	46:NB:331:LEU:HG	2.17	0.44
45:NC:137:VAL:HG12	45:NC:167:LEU:O	2.17	0.44
45:NC:318:MET:HB2	45:NC:376:CYS:SG	2.57	0.44
46:ND:19:LYS:HA	46:ND:22:GLU:OE2	2.17	0.44
46:NF:21:TRP:CZ2	46:NF:63:ALA:HB2	2.52	0.44
45:NG:137:VAL:HG12	45:NG:167:LEU:O	2.18	0.44
45:NI:353:VAL:HG12	46:NL:177:ASP:OD1	2.17	0.44
45:NM:118:CYS:O	45:NM:122:ILE:HG12	2.18	0.44
45:OA:217:LEU:HD12	45:OA:367:ASP:HB3	1.99	0.44
45:OC:340:THR:HG23	45:OC:341:ILE:HG13	2.00	0.44
46:OD:222:TYR:O	46:OD:226:ASN:ND2	2.50	0.44
45:OG:414:GLU:HB3	45:OG:417:GLU:OE1	2.17	0.44
45:OK:420:GLU:O	45:OK:423:GLU:HG2	2.16	0.44
46:OL:66:MET:HA	46:OL:91:VAL:O	2.17	0.44
46:OL:294:PHE:CD2	46:OL:333:VAL:HG21	2.52	0.44
45:OM:147:SER:HB2	45:OM:190:SER:HB2	1.99	0.44
46:ON:86:ARG:HG3	46:ON:88:ASP:H	1.82	0.44
46:ON:188:SER:O	46:ON:192:LEU:HD23	2.18	0.44
45:PA:19:ALA:HA	45:PA:22:GLU:OE1	2.16	0.44
46:PB:325:GLU:HA	46:PB:328:GLU:HG2	1.98	0.44
45:PE:51:THR:HG21	45:PE:243:ARG:HD3	2.00	0.44
46:PH:268:ILE:HG22	46:PH:368:VAL:HG12	1.98	0.44
45:PM:19:ALA:HA	45:PM:22:GLU:OE1	2.18	0.44
45:QA:141:VAL:HG12	45:QA:171:ILE:O	2.18	0.44
46:QB:317:PHE:CD2	46:QB:365:VAL:HG22	2.52	0.44
46:QJ:178:THR:HB	46:QJ:181:GLU:HG3	1.99	0.44
45:QK:257:THR:HG22	46:QL:397:TRP:CZ3	2.52	0.44
46:QL:318:ARG:HH11	46:QL:358:PRO:HG3	1.82	0.44
46:QN:237:THR:HG23	46:QN:241:ARG:HH21	1.82	0.44
45:RA:229:ARG:HH22	45:RA:367:ASP:CG	2.19	0.44
45:RC:311:LYS:N	45:RC:382:THR:OG1	2.49	0.44
45:RC:326:LYS:HD3	46:RD:212:PHE:HZ	1.83	0.44
46:RD:416:ASN:OD1	46:RD:417:ASP:N	2.51	0.44
45:RE:119:LEU:HA	45:RE:122:ILE:HG12	1.99	0.44
46:RH:6:HIS:O	46:RH:63:ALA:HA	2.17	0.44
46:RJ:67:ASP:OD1	46:RJ:68:LEU:N	2.50	0.44
46:RJ:237:THR:HG23	46:RJ:241:ARG:NH1	2.33	0.44
45:RK:371:VAL:HG22	45:RK:373:ARG:H	1.82	0.44
46:RL:156:ARG:HA	46:RL:156:ARG:CZ	2.47	0.44
46:RL:262:ARG:NH1	46:RL:418:LEU:HD13	2.32	0.44
46:RL:327:ASP:HA	46:RL:330:MET:HE3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SB:122:LYS:HE2	46:TB:291:GLN:OE1	2.17	0.44
45:SC:21:TRP:CH2	45:SC:63:PRO:HB3	2.52	0.44
46:SD:324:LYS:HB2	45:SE:210:TYR:CE2	2.51	0.44
46:SH:190:HIS:CE1	46:SH:414:ASN:HD22	2.35	0.44
46:SJ:232:ALA:HB1	46:SJ:268:ILE:HD11	1.98	0.44
46:SJ:282:ARG:HH21	46:SJ:288:GLU:HB3	1.83	0.44
46:SL:256:ASN:OD1	46:SL:350:LYS:NZ	2.37	0.44
46:SL:375:GLN:O	46:SL:379:LYS:HG2	2.17	0.44
45:SM:141:VAL:HG11	45:SM:172:TYR:CD2	2.53	0.44
45:SM:175:PRO:HA	45:SM:390:ARG:CZ	2.48	0.44
45:SM:296:PHE:HE1	45:SM:377:MET:HE3	1.82	0.44
46:SN:116:VAL:HA	46:SN:119:VAL:HG12	2.00	0.44
45:TC:425:LEU:O	45:TC:428:LEU:HB3	2.17	0.44
46:TD:4:ILE:HG13	46:TD:132:GLY:O	2.16	0.44
46:TD:21:TRP:CZ2	46:TD:63:ALA:HB2	2.52	0.44
46:TD:385:PHE:CZ	46:TD:408:PHE:CD2	3.02	0.44
45:TE:339:ARG:NE	45:TE:339:ARG:HA	2.32	0.44
46:TN:99:ASN:HA	46:TN:142:GLY:H	1.81	0.44
46:UB:72:THR:O	46:UB:76:VAL:HG22	2.17	0.44
46:UB:259:PRO:HA	45:UC:404:PHE:CE1	2.53	0.44
45:UC:88:HIS:CE1	45:VA:280:LYS:HG2	2.53	0.44
45:UE:27:GLU:HG2	45:UE:361:THR:HG21	1.99	0.44
46:UF:213:ARG:NE	46:UF:297:LYS:HB3	2.29	0.44
46:UF:258:ILE:HD12	46:UF:264:HIS:HB3	1.98	0.44
45:UG:107:HIS:ND1	45:UG:107:HIS:O	2.51	0.44
45:UG:336:LYS:HD3	45:UG:336:LYS:HA	1.74	0.44
46:UH:97:ALA:HB3	46:UH:143:THR:HB	1.98	0.44
45:UI:171:ILE:HG23	45:UI:204:LEU:O	2.18	0.44
46:UJ:163:ILE:HD13	46:UJ:251:ARG:HG2	1.98	0.44
46:UL:344:TRP:CE3	46:UL:345:ILE:HG23	2.53	0.44
46:UN:215:LEU:HA	46:UN:275:SER:HA	1.99	0.44
45:VA:223:THR:OG1	45:VA:224:TYR:N	2.50	0.44
45:VA:260:VAL:CG1	46:VD:397:TRP:HZ2	2.30	0.44
45:VC:17:GLY:HA2	45:VC:20:CYS:HG	1.82	0.44
45:VC:98:ASP:OD1	45:VC:99:ALA:N	2.50	0.44
46:VD:326:VAL:O	46:VD:330:MET:HG2	2.16	0.44
46:VF:258:ILE:HG13	46:VF:258:ILE:O	2.18	0.44
46:VF:391:ARG:HA	46:VF:391:ARG:HD2	1.73	0.44
45:VG:56:THR:HG23	45:VG:58:ALA:H	1.82	0.44
45:VG:205:ASP:CG	45:VG:304:LYS:H	2.17	0.44
45:VG:261:PRO:HA	46:VJ:394:PHE:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VJ:217:LEU:H	46:VJ:217:LEU:HD23	1.83	0.44
46:VJ:257:LEU:HD11	46:VJ:314:SER:HB2	1.99	0.44
46:VL:47:ILE:HG22	46:VL:51:TYR:HB2	1.98	0.44
45:VM:141:VAL:HG22	45:VM:187:SER:HA	1.99	0.44
45:WA:101:ASN:OD1	46:WB:252:LYS:NZ	2.50	0.44
46:WB:318:ARG:HH11	46:WB:358:PRO:HG3	1.82	0.44
46:WD:19:LYS:HZ1	46:WD:227:HIS:HA	1.82	0.44
45:WE:10:GLY:O	45:WE:14:ILE:HG12	2.18	0.44
45:WG:21:TRP:HZ2	45:WG:65:ALA:HB2	1.82	0.44
45:WK:88:HIS:CE1	45:WK:90:GLU:HG3	2.52	0.44
45:WK:288:VAL:HG13	45:WK:373:ARG:NH1	2.32	0.44
46:WL:286:VAL:HB	46:WL:325:GLU:OE1	2.18	0.44
14:OV:98:LEU:HD21	45:LM:415:GLU:HG2	1.99	0.44
4:1D:180:ARG:HH22	46:EF:57:GLY:N	2.16	0.44
9:1N:156:HIS:HD1	46:KJ:26:ASP:HB2	1.81	0.44
24:1P:341:LEU:HD21	45:TC:26:LEU:HD13	1.98	0.44
26:1W:61:LYS:NZ	46:LH:361:LEU:HD22	2.31	0.44
23:2O:318:LEU:HD21	45:VE:362:VAL:HG13	1.98	0.44
24:2P:354:LYS:NZ	46:TN:359:LYS:HG2	2.27	0.44
12:2T:237:TYR:HB2	46:MJ:405:GLU:OE2	2.17	0.44
13:2U:193:LYS:HB2	46:WJ:80:PRO:HD3	1.98	0.44
34:4R:573:LEU:HD21	34:4R:580:LEU:HB2	1.99	0.44
15:4X:31:ASP:O	15:4X:32:LEU:HB2	2.17	0.44
37:5F:96:TYR:O	37:5F:100:VAL:HG22	2.18	0.44
37:5G:78:LEU:HD21	37:5G:97:ARG:HG2	2.00	0.44
34:5R:215:LEU:HA	34:5R:218:ILE:HG13	1.99	0.44
34:5R:472:GLU:OE2	46:EJ:80:PRO:HD3	2.18	0.44
35:5S:102:LEU:HD21	35:5S:127:LEU:HD12	1.99	0.44
39:6F:119:GLU:HA	39:6F:122:GLU:HG3	2.00	0.44
41:6H:286:GLU:HG2	41:6H:289:LYS:HA	1.98	0.44
10:6Q:170:ARG:NE	10:6Q:172:TYR:CZ	2.85	0.44
42:8L:119:UNK:O	42:8L:120:UNK:C	2.66	0.44
46:AB:274:THR:HB	46:AB:282:ARG:NH2	2.32	0.44
45:AC:21:TRP:CZ2	45:AC:65:ALA:HB2	2.52	0.44
45:AC:178:SER:OG	46:AD:347:ASN:HB3	2.18	0.44
46:AD:201:VAL:HG23	46:AD:301:CYS:SG	2.58	0.44
46:AH:164:MET:O	46:AH:197:ASP:HB3	2.17	0.44
45:AI:107:HIS:ND1	45:AI:107:HIS:O	2.51	0.44
45:BA:90:GLU:HG2	45:BA:121:ARG:NH2	2.31	0.44
45:BA:254:GLU:HG2	46:BD:98:GLY:HA2	2.00	0.44
45:BA:263:PRO:HD3	46:BD:396:HIS:NE2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BC:268:MET:HG3	45:BC:380:ASN:HB2	2.00	0.44
46:BD:28:HIS:C	46:BD:43:GLN:HE21	2.21	0.44
45:BG:424:ASP:OD1	45:BG:425:LEU:N	2.50	0.44
46:BL:30:ILE:HG13	46:BL:51:TYR:HE2	1.82	0.44
45:BM:91:GLN:NE2	45:BM:125:LEU:HD21	2.32	0.44
45:BM:206:ASN:HB3	45:BM:210:TYR:CE2	2.52	0.44
46:BN:375:GLN:HG3	46:BN:379:LYS:HZ2	1.83	0.44
45:CA:240:ALA:HA	45:CA:243:ARG:NH1	2.32	0.44
45:CC:21:TRP:CZ2	45:CC:65:ALA:HB2	2.53	0.44
45:CG:75:ILE:HG23	45:CG:92:LEU:HD12	1.99	0.44
45:CG:145:THR:HG22	47:CG:501:GTP:PG	2.57	0.44
46:CH:163:ILE:HD11	46:CH:251:ARG:HE	1.82	0.44
46:CJ:226:ASN:ND2	49:CJ:501:GDP:HN1	2.15	0.44
46:CN:3:GLU:HG3	46:CN:62:ARG:HH12	1.82	0.44
46:CN:47:ILE:HG12	46:CN:51:TYR:HB2	1.99	0.44
46:CN:86:ARG:HG3	46:CN:88:ASP:H	1.83	0.44
46:DD:258:ILE:O	46:DD:258:ILE:HG13	2.17	0.44
46:DD:330:MET:HA	46:DD:333:VAL:HG12	2.00	0.44
46:DF:183:TYR:CZ	46:DF:388:MET:SD	3.11	0.44
46:DF:324:LYS:NZ	45:DG:210:TYR:CD1	2.85	0.44
46:DJ:64:ILE:HD13	46:DJ:119:VAL:HG13	1.98	0.44
46:DJ:66:MET:HE1	46:DJ:147:MET:HG2	2.00	0.44
46:DJ:318:ARG:HB3	46:DJ:357:PRO:HA	2.00	0.44
46:DL:201:VAL:HG23	46:DL:301:CYS:SG	2.58	0.44
46:DL:322:SER:H	45:DM:221:ARG:NH2	2.16	0.44
45:EC:26:LEU:CD2	45:EC:364:PRO:HD3	2.48	0.44
45:EI:141:VAL:HG12	45:EI:171:ILE:O	2.17	0.44
46:EL:303:ALA:HA	46:EL:376:GLU:OE2	2.17	0.44
46:EN:66:MET:HE1	46:EN:116:VAL:HG21	2.00	0.44
46:FB:4:ILE:HG13	46:FB:132:GLY:O	2.18	0.44
45:FC:115:VAL:HG11	45:FC:152:LEU:HD23	2.00	0.44
45:FC:174:SER:HB2	45:FC:177:VAL:O	2.18	0.44
46:FD:178:THR:HG22	46:FD:180:VAL:H	1.82	0.44
45:FE:414:GLU:OE1	45:FE:416:GLY:N	2.47	0.44
45:FG:414:GLU:CD	45:FG:416:GLY:H	2.20	0.44
45:FI:265:ILE:HG23	45:FI:432:TYR:OH	2.17	0.44
46:FJ:113:ILE:HG21	46:FJ:154:LYS:NZ	2.33	0.44
45:FK:288:VAL:HA	45:FK:291:ILE:HG12	1.99	0.44
45:FM:209:ILE:HG12	45:FM:302:MET:HG3	2.00	0.44
46:FN:12:CYS:HA	46:FN:15:GLN:NE2	2.31	0.44
46:FN:54:ALA:HB3	46:FN:58:ARG:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:27:GLU:OE2	45:GA:243:ARG:NH2	2.51	0.44
45:GE:132:LEU:HD22	45:GE:164:LYS:HD2	1.98	0.44
46:GF:379:LYS:O	46:GF:383:GLU:HG2	2.17	0.44
45:GI:229:ARG:HH12	45:GI:363:VAL:HG21	1.83	0.44
45:GK:274:PRO:HG3	45:GK:286:LEU:HD23	1.99	0.44
45:GK:324:VAL:HG12	45:GK:326:LYS:HG2	1.99	0.44
45:GK:419:SER:O	45:GK:422:ARG:N	2.50	0.44
46:GL:1:MET:O	46:GL:2:ARG:HG2	2.18	0.44
46:GN:376:GLU:HA	46:GN:379:LYS:HG2	1.98	0.44
45:HA:71:GLU:HA	45:HA:72:PRO:HD3	1.87	0.44
46:HL:6:HIS:HD2	46:HL:7:ILE:N	2.16	0.44
45:HM:88:HIS:ND1	45:HM:90:GLU:HG2	2.33	0.44
46:HN:318:ARG:HH11	46:HN:358:PRO:HG3	1.82	0.44
46:IB:22:GLU:HA	46:IB:81:PHE:HD1	1.81	0.44
46:IB:116:VAL:HA	46:IB:119:VAL:HG22	1.99	0.44
45:IG:3:GLU:OE2	45:IG:131:GLY:N	2.48	0.44
45:II:402:ARG:NH1	45:II:415:GLU:OE2	2.51	0.44
46:IJ:282:ARG:NH2	46:IJ:288:GLU:OE2	2.45	0.44
46:IJ:295:ASP:HB3	46:IJ:298:ASN:HB2	1.98	0.44
45:IM:227:LEU:O	45:IM:230:LEU:HG	2.17	0.44
46:IN:135:ILE:HB	46:IN:166:THR:HG22	1.98	0.44
45:JA:2:ARG:HH21	46:JD:70:PRO:HD2	1.83	0.44
45:JC:271:SER:OG	45:JC:301:MET:SD	2.75	0.44
46:JD:113:ILE:HD13	46:JD:150:LEU:HD22	1.99	0.44
45:JE:184:PRO:O	45:JE:188:ILE:HG12	2.17	0.44
46:JF:289:LEU:HD23	46:JF:289:LEU:HA	1.81	0.44
46:JF:299:MET:HG3	46:JF:305:PRO:HG3	2.00	0.44
45:JG:40:LYS:NZ	45:JG:42:ILE:HD13	2.33	0.44
46:JL:187:LEU:HD11	46:JL:408:PHE:CE2	2.52	0.44
46:JL:342:VAL:HG13	46:JL:345:ILE:HG22	2.00	0.44
46:KB:148:GLY:O	46:KB:152:ILE:HG13	2.18	0.44
46:KB:252:LYS:HG2	46:KB:350:LYS:HE3	1.99	0.44
45:KC:274:PRO:HG3	45:KC:286:LEU:HD12	2.00	0.44
45:KE:54:SER:HB3	45:KE:64:ARG:NH2	2.32	0.44
45:KE:317:MET:HE1	45:KE:351:PHE:CD2	2.53	0.44
45:KE:411:GLU:N	45:KE:411:GLU:OE1	2.50	0.44
45:KG:30:ILE:HD13	45:KG:36:MET:CE	2.47	0.44
45:KI:53:PHE:O	45:KI:64:ARG:NH2	2.51	0.44
45:KK:324:VAL:O	45:KK:328:VAL:HG23	2.18	0.44
45:KM:209:ILE:HD12	45:KM:227:LEU:HB3	2.00	0.44
45:LA:338:LYS:NZ	45:LA:339:ARG:H	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LC:102:ASN:ND2	45:LC:105:ARG:HG3	2.32	0.44
45:LE:160:ASP:C	45:LE:161:TYR:HD1	2.21	0.44
46:LF:156:ARG:HA	46:LF:156:ARG:HD2	1.77	0.44
46:LH:3:GLU:HG3	46:LH:62:ARG:NH1	2.33	0.44
45:LK:275:ILE:HD13	45:LK:275:ILE:HA	1.87	0.44
45:MA:164:LYS:HA	45:MA:164:LYS:HD3	1.74	0.44
45:MA:272:TYR:CD2	45:MA:275:ILE:HD11	2.52	0.44
46:MB:110:ALA:O	46:MB:113:ILE:HG22	2.18	0.44
46:MB:254:ALA:O	46:MB:258:ILE:HG12	2.18	0.44
45:MC:298:PRO:O	45:MC:301:MET:HG2	2.17	0.44
46:MD:21:TRP:HA	46:MD:24:ILE:HG22	2.00	0.44
46:MD:372:THR:HA	46:MD:422:TYR:HE2	1.82	0.44
45:MG:24:PHE:CE1	45:MG:52:PHE:HE2	2.35	0.44
45:NA:27:GLU:HB3	45:NA:361:THR:HG21	1.99	0.44
46:NB:167:PHE:CE2	46:NB:233:MET:HG2	2.52	0.44
45:NC:305:CYS:HA	45:NC:386:GLU:OE2	2.17	0.44
45:NE:19:ALA:HA	45:NE:22:GLU:OE2	2.18	0.44
45:NE:231:ILE:O	45:NE:235:ILE:HG12	2.16	0.44
46:NF:146:GLY:O	46:NF:149:THR:HG22	2.17	0.44
45:NG:346:TRP:CD1	46:NJ:391:ARG:HG3	2.52	0.44
46:NH:117:LEU:HA	46:NH:120:VAL:HG22	2.00	0.44
45:NI:89:PRO:HG2	45:OI:280:LYS:NZ	2.31	0.44
46:NJ:208:TYR:HE1	46:NJ:225:LEU:HD11	1.82	0.44
46:NJ:258:ILE:HG13	46:NJ:266:PHE:HZ	1.82	0.44
45:NK:100:ALA:HB1	46:NL:252:LYS:HA	1.99	0.44
46:NL:374:ILE:HD12	46:NL:378:PHE:HE2	1.83	0.44
46:OD:32:PRO:HB3	46:OD:81:PHE:HA	1.99	0.44
45:OE:429:GLU:O	45:OE:433:GLU:OE1	2.35	0.44
46:OH:87:PRO:HA	46:OH:90:PHE:HD2	1.83	0.44
45:OI:51:THR:HG21	45:OI:243:ARG:HB3	1.99	0.44
46:OJ:139:LEU:HG	46:OJ:168:SER:HB3	1.99	0.44
46:OJ:158:GLU:HG2	46:OJ:159:TYR:CD1	2.52	0.44
45:OK:188:ILE:HA	45:OK:191:THR:HG22	1.99	0.44
46:ON:17:GLY:HA2	46:ON:20:PHE:HB3	1.99	0.44
46:PB:207:LEU:HD13	46:PB:225:LEU:HB3	2.00	0.44
45:PC:3:GLU:OE2	45:PC:131:GLY:N	2.38	0.44
45:PC:176:GLN:OE1	45:PC:176:GLN:N	2.50	0.44
46:PD:267:MET:HE1	46:PD:301:CYS:HB2	1.99	0.44
45:PE:320:ARG:HB2	45:PE:358:GLN:O	2.18	0.44
46:PF:396:HIS:HA	46:PF:399:THR:OG1	2.18	0.44
46:PH:178:THR:HG22	46:PH:180:VAL:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:289:LEU:O	46:PH:293:MET:HG3	2.17	0.44
46:PH:318:ARG:HB3	46:PH:357:PRO:HA	1.98	0.44
45:PI:117:LEU:O	45:PI:121:ARG:HG2	2.17	0.44
46:PJ:154:LYS:HA	46:PJ:154:LYS:HD3	1.86	0.44
45:PK:103:PHE:H	45:PK:408:TYR:HE2	1.66	0.44
45:PM:259:LEU:HD11	45:PM:316:SER:HB3	2.00	0.44
45:PM:331:SER:O	45:PM:335:ILE:HG12	2.17	0.44
46:QB:65:LEU:HD12	46:QB:90:PHE:CD2	2.53	0.44
45:QC:390:ARG:HB3	45:QC:394:LYS:HZ1	1.83	0.44
45:QE:202:VAL:HA	45:QE:268:MET:O	2.17	0.44
45:QG:308:ARG:HH11	45:QG:308:ARG:HG2	1.81	0.44
46:QH:376:GLU:O	46:QH:380:ARG:HG2	2.18	0.44
45:QI:141:VAL:HG11	45:QI:172:TYR:CD1	2.50	0.44
45:RA:352:LYS:HD2	46:RB:177:ASP:O	2.17	0.44
45:RC:253:THR:HA	45:RC:256:GLN:NE2	2.32	0.44
46:RD:253:LEU:O	46:RD:257:LEU:HD23	2.17	0.44
46:RF:256:ASN:OD1	45:RG:181:VAL:HG22	2.18	0.44
45:RG:138:PHE:CD1	45:RG:169:PHE:HB2	2.52	0.44
46:RH:51:TYR:HB3	46:RH:59:TYR:HB3	2.00	0.44
46:RH:276:ARG:HA	46:RH:276:ARG:HD3	1.81	0.44
46:SD:252:LYS:NZ	47:SE:501:GTP:O1G	2.33	0.44
46:SD:293:MET:HE2	46:SD:367:PHE:HB3	2.00	0.44
46:SF:280:GLN:HG2	46:SF:281:TYR:HD1	1.83	0.44
45:SG:203:MET:CE	45:SG:267:PHE:HB3	2.47	0.44
46:SJ:314:SER:HA	46:SJ:350:LYS:O	2.17	0.44
45:SK:305:CYS:SG	45:SK:306:ASP:N	2.91	0.44
45:SM:31:GLN:NE2	45:SM:37:PRO:HB3	2.33	0.44
45:TE:212:ILE:HD11	45:TE:300:ASN:HA	1.99	0.44
46:TF:256:ASN:ND2	46:TF:350:LYS:HE2	2.32	0.44
46:TF:337:ASN:HB3	46:TF:340:TYR:HD2	1.82	0.44
45:TG:127:ASP:OD1	45:TG:128:ASN:N	2.51	0.44
46:TH:27:GLU:HA	46:TH:359:LYS:HE2	2.00	0.44
46:TJ:206:ALA:O	46:TJ:210:ILE:HG12	2.17	0.44
46:TL:136:THR:HG22	46:TL:167:PHE:HB2	1.99	0.44
46:TL:164:MET:O	46:TL:197:ASP:HB2	2.17	0.44
45:TM:227:LEU:O	45:TM:231:ILE:HG12	2.17	0.44
45:UA:188:ILE:HD11	45:UA:391:LEU:HB3	1.98	0.44
46:UB:47:ILE:HG12	46:UB:51:TYR:HB2	1.99	0.44
46:UD:86:ARG:HA	46:VD:281:TYR:CE1	2.53	0.44
46:UF:3:GLU:CD	46:UF:3:GLU:H	2.21	0.44
45:UG:286:LEU:O	45:UG:373:ARG:NH1	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UI:434:GLU:O	45:UI:437:ILE:HG12	2.17	0.44
46:UJ:22:GLU:HG2	46:UJ:81:PHE:CD1	2.53	0.44
46:UN:86:ARG:NH1	46:UN:88:ASP:HB3	2.33	0.44
46:VB:69:GLU:HA	46:VB:70:PRO:HD3	1.85	0.44
46:VB:377:MET:O	46:VB:380:ARG:HD3	2.17	0.44
45:VC:227:LEU:O	45:VC:231:ILE:HG12	2.17	0.44
46:VF:9:GLY:HA2	46:VF:66:MET:O	2.18	0.44
46:VH:77:ARG:CZ	46:VH:83:GLN:HA	2.48	0.44
46:VH:178:THR:HG22	46:VH:180:VAL:H	1.82	0.44
45:VI:8:HIS:HB2	45:VI:67:PHE:CD1	2.52	0.44
46:VJ:198:GLU:HG2	46:VJ:266:PHE:HE2	1.82	0.44
46:VJ:286:VAL:O	46:VJ:290:THR:HG23	2.17	0.44
46:VJ:391:ARG:HA	46:VJ:391:ARG:HD2	1.74	0.44
45:VK:174:SER:CB	45:VK:207:GLU:HG3	2.47	0.44
45:VK:288:VAL:HA	45:VK:291:ILE:HG12	1.98	0.44
45:WA:136:LEU:HD22	45:WA:169:PHE:HE2	1.82	0.44
45:WA:136:LEU:HD23	45:WA:167:LEU:HB2	2.00	0.44
45:WC:180:ALA:HA	46:WD:350:LYS:CE	2.46	0.44
45:WC:398:MET:CE	46:WD:345:ILE:HA	2.47	0.44
45:WE:356:ASN:OD1	45:WE:357:TYR:N	2.50	0.44
46:WF:1:MET:HB3	46:WF:46:ARG:HH21	1.82	0.44
46:WF:164:MET:SD	46:WF:196:ALA:HA	2.58	0.44
45:WG:180:ALA:HA	46:WH:350:LYS:HE2	1.99	0.44
45:WI:79:ARG:O	45:WI:84:ARG:HG2	2.17	0.44
45:WK:31:GLN:HB2	45:WK:33:ASP:OD1	2.18	0.44
45:WK:222:PRO:O	46:WL:324:LYS:HG2	2.17	0.44
45:WK:269:LEU:HD23	45:WK:379:SER:O	2.17	0.44
45:WM:4:VAL:O	45:WM:64:ARG:NE	2.49	0.44
45:CE:121:ARG:HH12	45:CE:124:LYS:HD2	1.83	0.44
45:DC:51:THR:HG21	45:DC:243:ARG:HB3	1.99	0.44
1:0A:72:GLY:N	45:AA:221:ARG:HH11	2.15	0.44
13:1U:194:ARG:HH12	46:WF:79:GLY:C	2.20	0.44
4:2D:99:ARG:HH22	45:EK:365:GLY:H	1.65	0.44
20:2K:315:ARG:HH12	45:GI:372:MET:HB3	1.80	0.44
24:2P:418:GLN:HE21	46:TL:276:ARG:NH1	2.11	0.44
35:4S:152:THR:O	35:4S:153:LYS:HG2	2.17	0.44
15:4X:4:VAL:HG23	15:4X:5:LYS:HG3	1.99	0.44
36:5A:138:ARG:HE	46:ND:359:LYS:NZ	2.16	0.44
37:5E:154:TYR:HE2	37:5F:11:TRP:CE2	2.35	0.44
37:5G:61:LYS:HG2	46:OJ:276:ARG:NH2	2.32	0.44
37:5H:54:LYS:HD2	46:ON:227:HIS:ND1	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
34:5R:89:ASP:OD2	34:5R:90:ARG:HG2	2.17	0.44
35:5S:76:ILE:HA	35:5S:89:TRP:HD1	1.81	0.44
34:7R:262:TRP:HE3	34:7R:274:TYR:HH	1.65	0.44
46:AB:130:LEU:HD21	46:AB:133:PHE:CE1	2.52	0.44
46:AF:272:PRO:HG3	46:AF:284:LEU:HD11	2.00	0.44
45:AG:176:GLN:O	46:AH:347:ASN:ND2	2.51	0.44
46:AH:19:LYS:HG3	46:AH:226:ASN:HB3	1.99	0.44
46:AH:77:ARG:NH1	46:AH:77:ARG:HB3	2.33	0.44
45:AK:331:SER:O	45:AK:335:ILE:HG12	2.17	0.44
46:AL:139:LEU:HD13	46:AL:168:SER:HB2	1.98	0.44
46:BB:21:TRP:CZ2	46:BB:63:ALA:HB2	2.53	0.44
45:BC:11:GLN:HG3	45:BC:15:GLN:OE1	2.17	0.44
45:BE:9:VAL:HG13	45:BE:139:ASN:HB3	2.00	0.44
45:BE:319:TYR:HB3	45:BE:323:VAL:HG11	1.98	0.44
45:BG:68:LEU:HD21	45:BG:118:CYS:SG	2.57	0.44
45:BI:401:LYS:HE2	46:BJ:344:TRP:CZ3	2.53	0.44
46:BJ:304:ASP:OD2	46:BJ:306:ARG:HG2	2.17	0.44
45:BK:224:TYR:HD1	45:BK:227:LEU:HD12	1.82	0.44
46:BL:318:ARG:HD3	46:BL:358:PRO:HD3	2.00	0.44
45:CC:155:GLU:OE2	45:CC:156:ARG:HG3	2.18	0.44
46:CH:216:LYS:HB3	46:CH:275:SER:HB3	2.00	0.44
46:CJ:113:ILE:HD13	46:CJ:150:LEU:HD22	1.98	0.44
45:CK:21:TRP:CH2	45:CK:63:PRO:HB3	2.52	0.44
45:CK:259:LEU:HD11	45:CK:316:SER:HB2	1.99	0.44
45:CM:141:VAL:HG12	45:CM:171:ILE:O	2.17	0.44
45:CM:426:ALA:HB1	45:CM:430:LYS:HZ1	1.82	0.44
46:DD:217:LEU:HD23	46:DD:219:THR:H	1.81	0.44
45:DE:345:ASP:N	45:DE:345:ASP:OD2	2.46	0.44
46:DH:390:ARG:HA	46:DH:390:ARG:CZ	2.48	0.44
45:EC:272:TYR:HD1	45:EC:376:CYS:SG	2.41	0.44
45:EC:390:ARG:O	45:EC:394:LYS:HD3	2.17	0.44
45:EE:422:ARG:HD2	45:EE:425:LEU:HD11	1.99	0.44
46:EF:175:VAL:HG22	46:EF:205:GLU:CD	2.37	0.44
46:EF:190:HIS:CE1	46:EF:414:ASN:HD22	2.35	0.44
46:EF:341:PHE:HB3	46:EF:348:ASN:HD21	1.82	0.44
45:EI:108:TYR:HA	45:EI:112:LYS:HE3	1.98	0.44
45:EI:259:LEU:HD13	45:EI:314:ALA:HB1	1.99	0.44
46:EL:313:ALA:HB1	46:EL:367:PHE:CE1	2.52	0.44
46:FD:64:ILE:HG13	46:FD:120:VAL:HG22	2.00	0.44
46:FD:86:ARG:NH1	46:GD:281:TYR:HB3	2.30	0.44
46:FD:406:MET:O	46:FD:410:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FF:117:LEU:HA	46:FF:120:VAL:HG12	2.00	0.44
45:FI:343:PHE:CZ	45:FI:351:PHE:HE1	2.36	0.44
46:FJ:268:ILE:HG13	46:FJ:300:MET:CE	2.47	0.44
45:GA:201:ALA:HB3	45:GA:267:PHE:HD2	1.82	0.44
45:GA:276:ILE:HD12	45:GA:281:ALA:HB1	1.99	0.44
45:GC:387:VAL:HA	45:GC:390:ARG:HG2	1.99	0.44
45:GC:425:LEU:HD23	45:GC:425:LEU:HA	1.79	0.44
45:GE:2:ARG:O	45:GE:51:THR:HA	2.17	0.44
45:GE:100:ALA:HB1	46:GF:252:LYS:HA	2.00	0.44
45:GE:326:LYS:HG3	46:GH:220:PRO:HG2	2.00	0.44
46:GF:3:GLU:H	46:GF:3:GLU:CD	2.21	0.44
45:GG:68:LEU:HD13	45:GG:93:ILE:HB	1.99	0.44
45:GI:296:PHE:CE2	45:GI:335:ILE:HG21	2.53	0.44
45:GM:141:VAL:HG11	45:GM:172:TYR:HD1	1.83	0.44
45:HC:297:GLU:HG2	45:HC:298:PRO:HD2	2.00	0.44
45:HC:317:MET:SD	45:HC:377:MET:HG2	2.58	0.44
45:HE:88:HIS:H	45:HE:91:GLN:NE2	2.15	0.44
46:HJ:68:LEU:HD21	46:HJ:147:MET:CE	2.48	0.44
46:HJ:94:GLN:OE1	46:HJ:94:GLN:N	2.50	0.44
45:HM:212:ILE:HD11	45:HM:300:ASN:HA	2.00	0.44
45:IA:75:ILE:HD12	45:IA:75:ILE:H	1.82	0.44
46:IB:19:LYS:HZ2	46:IB:227:HIS:HB2	1.83	0.44
45:IC:18:ASN:O	45:IC:22:GLU:OE1	2.35	0.44
45:IE:268:MET:HG3	45:IE:380:ASN:HB2	1.99	0.44
45:IG:241:SER:HA	45:IG:356:ASN:HD21	1.83	0.44
46:IH:135:ILE:HB	46:IH:166:THR:HG22	1.99	0.44
45:II:434:GLU:O	45:II:437:ILE:HG12	2.17	0.44
46:IJ:232:ALA:HB1	46:IJ:268:ILE:HD12	1.99	0.44
46:IL:309:ARG:NH2	46:IL:426:GLN:O	2.41	0.44
45:IM:103:PHE:H	45:IM:408:TYR:HE2	1.66	0.44
45:JA:420:GLU:OE2	45:NA:308:ARG:NE	2.38	0.44
46:JB:16:ILE:HD13	46:JB:226:ASN:OD1	2.17	0.44
45:JC:377:MET:SD	45:JC:379:SER:HB3	2.57	0.44
46:JF:63:ALA:O	46:JF:89:ASN:ND2	2.48	0.44
45:JG:261:PRO:HA	46:JJ:394:PHE:CD1	2.53	0.44
46:JJ:284:LEU:HD22	46:JJ:362:LYS:HB3	1.99	0.44
46:JJ:294:PHE:CD2	46:JJ:333:VAL:HG21	2.53	0.44
46:KB:6:HIS:O	46:KB:63:ALA:HA	2.17	0.44
45:KE:205:ASP:OD1	45:KE:303:ALA:HA	2.17	0.44
46:KF:268:ILE:O	46:KF:300:MET:HB2	2.17	0.44
46:KJ:416:ASN:HA	46:KJ:419:VAL:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KL:273:LEU:H	46:KL:292:GLN:NE2	2.13	0.44
45:LA:53:PHE:HB3	45:LA:61:HIS:HB3	2.00	0.44
45:LA:345:ASP:OD2	45:LA:438:GLU:HG2	2.17	0.44
46:LB:248:SER:HA	46:LB:252:LYS:HD2	1.98	0.44
45:LC:288:VAL:HA	45:LC:291:ILE:CG1	2.45	0.44
45:LG:345:ASP:OD1	45:LG:345:ASP:N	2.50	0.44
46:LH:67:ASP:O	46:LH:92:PHE:HA	2.18	0.44
46:LJ:336:LYS:HE2	46:LJ:336:LYS:HB2	1.70	0.44
45:LK:221:ARG:HH12	46:LL:320:ARG:NH2	2.15	0.44
45:LK:430:LYS:O	45:LK:434:GLU:OE1	2.36	0.44
45:LM:363:VAL:HG13	45:LM:366:GLY:HA3	2.00	0.44
46:LN:86:ARG:NH1	46:MN:281:TYR:HB3	2.32	0.44
46:LN:86:ARG:CZ	46:MN:281:TYR:HB3	2.47	0.44
46:MB:384:GLN:O	46:MB:388:MET:HG2	2.16	0.44
45:MC:372:MET:SD	45:MC:372:MET:N	2.79	0.44
45:MG:56:THR:HG23	45:MG:58:ALA:H	1.83	0.44
45:MG:434:GLU:O	45:MG:437:ILE:HG12	2.18	0.44
46:MJ:113:ILE:HA	46:MJ:116:VAL:HG12	1.98	0.44
46:ML:238:CYS:SG	46:ML:239:CYS:N	2.91	0.44
45:NA:426:ALA:O	45:NA:429:GLU:HG3	2.17	0.44
46:NB:242:PHE:HB3	46:NB:356:ILE:HD13	1.99	0.44
45:NC:208:ALA:HB2	45:NC:304:LYS:HG3	1.99	0.44
45:NC:286:LEU:HD12	45:NC:291:ILE:HG22	2.00	0.44
45:NE:138:PHE:CE1	45:NE:169:PHE:HD2	2.36	0.44
45:NE:183:GLU:N	45:NE:184:PRO:HD2	2.31	0.44
45:NG:223:THR:HG23	45:NG:225:THR:HG23	2.00	0.44
46:NH:409:THR:O	46:NH:412:GLU:HG3	2.18	0.44
45:NM:399:TYR:OH	45:NM:402:ARG:NH2	2.51	0.44
45:OA:297:GLU:HB2	45:OA:300:ASN:ND2	2.32	0.44
45:OA:426:ALA:O	45:OA:430:LYS:HG2	2.18	0.44
46:OB:372:THR:HG21	46:OB:426:GLN:HB2	2.00	0.44
46:OD:113:ILE:HG21	46:OD:150:LEU:HD22	1.99	0.44
46:OD:173:PRO:HD3	46:OD:380:ARG:NH1	2.33	0.44
46:OF:310:TYR:HA	46:OF:371:SER:HB2	1.99	0.44
45:OG:287:SER:H	45:OG:290:GLU:CD	2.20	0.44
45:OI:257:THR:HG22	46:OL:397:TRP:CZ3	2.53	0.44
45:OK:175:PRO:HD2	45:OK:207:GLU:OE2	2.18	0.44
45:OK:326:LYS:HG3	46:ON:208:TYR:CE1	2.53	0.44
45:OK:407:TRP:CE3	46:OL:255:VAL:HG12	2.52	0.44
46:OL:87:PRO:HG2	46:PL:278:SER:OG	2.18	0.44
46:OL:290:THR:HA	46:OL:293:MET:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:71:GLU:HA	45:PA:72:PRO:HD3	1.82	0.44
45:PA:224:TYR:CD1	45:PA:227:LEU:HD12	2.53	0.44
45:PC:10:GLY:O	45:PC:14:ILE:HG12	2.17	0.44
46:PD:86:ARG:HH22	46:QB:278:SER:HA	1.83	0.44
46:PD:258:ILE:HG13	46:PD:266:PHE:HZ	1.82	0.44
46:PD:290:THR:HA	46:PD:293:MET:SD	2.57	0.44
46:PF:149:THR:OG1	46:PF:191:GLN:NE2	2.51	0.44
45:PG:352:LYS:NZ	46:PJ:179:VAL:H	2.00	0.44
46:PH:139:LEU:HD22	46:PH:188:SER:OG	2.18	0.44
46:PH:140:GLY:HA2	46:PH:181:GLU:OE1	2.17	0.44
46:PH:257:LEU:HD21	46:PH:314:SER:HB2	1.98	0.44
45:PI:116:ASP:HA	45:PI:156:ARG:HH12	1.82	0.44
45:PI:141:VAL:HG11	45:PI:172:TYR:CD1	2.52	0.44
45:PK:242:LEU:HD21	45:PK:251:ASP:HA	1.99	0.44
46:PL:286:VAL:HG12	46:PL:329:GLN:OE1	2.17	0.44
45:PM:23:LEU:O	45:PM:27:GLU:OE1	2.35	0.44
45:PM:205:ASP:OD1	45:PM:303:ALA:HA	2.16	0.44
46:QD:276:ARG:HA	46:QD:276:ARG:HD2	1.78	0.44
45:QE:434:GLU:O	45:QE:437:ILE:HG22	2.17	0.44
46:RB:238:CYS:SG	46:RB:318:ARG:HD3	2.58	0.44
45:RC:231:ILE:O	45:RC:235:ILE:HG12	2.18	0.44
46:RD:201:VAL:HG23	46:RD:301:CYS:SG	2.58	0.44
46:RF:3:GLU:HG3	46:RF:62:ARG:NH1	2.32	0.44
46:RF:217:LEU:HD23	46:RF:219:THR:H	1.82	0.44
46:RF:380:ARG:HE	46:RF:380:ARG:HB3	1.62	0.44
46:RH:251:ARG:O	46:RH:255:VAL:HG12	2.17	0.44
45:RI:430:LYS:O	45:RI:433:GLU:HG3	2.18	0.44
46:RJ:251:ARG:HH21	45:RK:105:ARG:NH1	2.16	0.44
46:RN:116:VAL:HA	46:RN:119:VAL:HG12	2.00	0.44
46:SB:44:LEU:HA	46:SB:47:ILE:HB	1.99	0.44
46:SB:313:ALA:O	46:SB:349:ILE:HA	2.17	0.44
45:SC:217:LEU:HB3	45:SC:219:ILE:HG13	1.99	0.44
46:SD:345:ILE:HA	45:SE:398:MET:HE1	1.98	0.44
46:SF:253:LEU:HD22	46:SF:350:LYS:NZ	2.32	0.44
45:SG:30:ILE:HD11	45:SG:34:GLY:O	2.17	0.44
46:SH:61:PRO:HG2	46:SH:85:PHE:HD1	1.81	0.44
46:SH:251:ARG:O	46:SH:255:VAL:HG12	2.17	0.44
46:SH:359:LYS:HA	46:SH:359:LYS:HD2	1.66	0.44
46:SL:296:ALA:HB1	46:SL:305:PRO:HD2	2.00	0.44
46:SN:91:VAL:HG21	46:SN:116:VAL:HB	1.99	0.44
45:TA:91:GLN:HB3	45:TA:121:ARG:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TB:245:GLN:O	45:TC:11:GLN:NE2	2.51	0.44
45:TC:425:LEU:O	45:TC:429:GLU:OE1	2.35	0.44
46:TD:390:ARG:NE	46:TD:390:ARG:HA	2.33	0.44
45:TE:73:THR:O	45:TE:77:GLU:OE1	2.35	0.44
45:TE:75:ILE:HG23	45:TE:92:LEU:HD23	1.99	0.44
46:TF:1:MET:HA	45:TG:96:LYS:HZ1	1.82	0.44
45:TG:244:PHE:HB2	45:TG:356:ASN:HD21	1.83	0.44
46:TH:99:ASN:HA	46:TH:142:GLY:H	1.83	0.44
45:TI:9:VAL:HG13	45:TI:139:ASN:HB3	2.00	0.44
45:TK:19:ALA:HA	45:TK:22:GLU:OE1	2.18	0.44
46:TL:129:CYS:HB3	45:TM:96:LYS:CE	2.46	0.44
46:TN:31:ASP:OD2	46:TN:37:HIS:ND1	2.50	0.44
46:TN:262:ARG:NH1	46:TN:421:GLU:OE1	2.49	0.44
45:UA:140:SER:OG	47:UA:501:GTP:O2B	2.36	0.44
45:UA:172:TYR:CD2	45:UA:203:MET:HG3	2.52	0.44
45:UA:215:ARG:NH2	45:UA:299:ALA:O	2.49	0.44
46:UB:3:GLU:HB2	46:UB:62:ARG:NH1	2.32	0.44
46:UB:391:ARG:HD2	46:UB:391:ARG:HA	1.83	0.44
45:UC:3:GLU:HG3	45:UC:129:CYS:SG	2.58	0.44
45:UC:19:ALA:HA	45:UC:22:GLU:OE1	2.17	0.44
45:UC:186:ASN:OD1	45:UC:187:SER:N	2.51	0.44
45:UC:251:ASP:HB3	45:UC:254:GLU:HG3	2.00	0.44
45:UC:298:PRO:HB2	45:UC:308:ARG:NH1	2.32	0.44
46:UH:28:HIS:C	46:UH:43:GLN:HE21	2.20	0.44
46:UH:119:VAL:O	46:UH:123:GLU:OE1	2.35	0.44
46:UH:150:LEU:O	46:UH:153:SER:OG	2.30	0.44
45:UI:285:GLN:OE1	45:UI:285:GLN:N	2.51	0.44
46:UL:65:LEU:HD11	46:UL:85:PHE:CD2	2.53	0.44
46:UL:170:VAL:HG12	46:UL:202:ILE:O	2.18	0.44
46:UL:226:ASN:HA	46:UL:229:VAL:HG22	2.00	0.44
46:UN:289:LEU:HD23	46:UN:292:GLN:NE2	2.32	0.44
45:VA:224:TYR:HE1	47:VA:501:GTP:C4	2.35	0.44
45:VC:171:ILE:HG22	45:VC:204:LEU:HB2	1.99	0.44
46:VD:184:ASN:OD1	46:VD:185:ALA:N	2.51	0.44
46:VD:248:SER:HA	46:VD:252:LYS:HG3	2.00	0.44
45:VE:426:ALA:O	45:VE:430:LYS:HG2	2.17	0.44
46:VF:226:ASN:HA	46:VF:229:VAL:HG12	2.00	0.44
46:VF:344:TRP:HB3	46:VF:430:ALA:HB2	1.99	0.44
45:VG:221:ARG:NH1	46:VH:325:GLU:H	2.15	0.44
45:VG:221:ARG:CZ	46:VH:322:SER:OG	2.66	0.44
46:VH:21:TRP:CH2	46:VH:61:PRO:HB3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:111:GLU:OE2	46:VL:112:LEU:HG	2.18	0.44
46:VL:409:THR:O	46:VL:412:GLU:HG3	2.17	0.44
45:VM:141:VAL:HG11	45:VM:172:TYR:HA	2.00	0.44
45:VM:401:LYS:HB2	45:VM:401:LYS:HE3	1.82	0.44
46:VN:193:VAL:HG22	46:VN:262:ARG:CZ	2.48	0.44
46:VN:212:PHE:O	46:VN:216:LYS:HE2	2.18	0.44
45:WC:5:ILE:HB	45:WC:135:PHE:CD1	2.53	0.44
45:WC:211:ASP:HA	45:WC:214:ARG:HG2	2.00	0.44
45:WE:251:ASP:HB3	45:WE:253:THR:HG22	1.98	0.44
46:WF:105:HIS:CD2	46:WF:150:LEU:HB2	2.53	0.44
46:WJ:222:TYR:O	46:WJ:226:ASN:ND2	2.26	0.44
45:WM:14:ILE:HD12	45:WM:67:PHE:HB3	1.99	0.44
46:WN:186:THR:HA	46:WN:189:VAL:HG12	1.99	0.44
46:WN:317:PHE:CD2	46:WN:365:VAL:HG22	2.53	0.44
46:WN:344:TRP:HE3	46:WN:345:ILE:HG23	1.82	0.44
46:WN:406:MET:O	46:WN:410:GLU:HG2	2.18	0.44
2:OB:58:ARG:HA	46:JH:74:ASP:OD2	2.18	0.44
14:OV:31:LEU:HD21	45:MM:309:HIS:HE1	1.82	0.44
7:1G:91:VAL:HG13	46:JB:279:GLN:HB3	2.00	0.44
7:1G:155:PRO:HB3	45:KA:26:LEU:HD12	1.98	0.44
21:1L:283:ARG:HH21	46:BH:360:GLY:H	1.65	0.44
24:1P:340:ARG:NE	45:TC:31:GLN:HG2	2.33	0.44
27:2C:67:LYS:NZ	45:LI:81:GLY:HA2	2.31	0.44
4:2D:95:GLN:NE2	45:EK:364:PRO:HB2	2.33	0.44
20:2K:266:LEU:O	45:GK:282:TYR:OH	2.18	0.44
25:2R:87:LEU:HA	45:MG:85:GLN:NE2	2.32	0.44
11:2S:46:TRP:CD1	45:WG:89:PRO:HG3	2.52	0.44
14:3V:141:ASN:ND2	45:LC:402:ARG:O	2.50	0.44
30:4H:219:ILE:O	45:MK:84:ARG:NH2	2.50	0.44
34:4R:318:TYR:CE1	46:CF:273:LEU:HD23	2.50	0.44
34:4R:391:PHE:HD2	46:EF:215:LEU:HD21	1.83	0.44
35:4S:176:GLY:O	35:4S:180:VAL:HG23	2.17	0.44
35:4S:184:ARG:HA	35:4S:240:MET:HE3	1.98	0.44
36:5A:66:TYR:CD2	46:NB:32:PRO:HD2	2.53	0.44
36:5D:87:ARG:NH2	45:NM:363:VAL:HG22	2.32	0.44
36:5D:104:PRO:HB3	45:KM:390:ARG:HD3	2.00	0.44
10:5Q:10:PHE:HE1	10:5Q:172:TYR:CD2	2.36	0.44
40:6G:113:ASN:O	40:6G:114:LYS:HE2	2.17	0.44
34:6R:146:LYS:HD2	34:6R:146:LYS:H	1.82	0.44
34:6R:242:ASN:HB2	45:BM:57:GLY:HA3	2.00	0.44
46:AB:27:GLU:HA	46:AB:359:LYS:HG3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AC:151:SER:HB2	45:AC:193:SER:OG	2.18	0.44
45:AC:200:VAL:HG13	45:AC:268:MET:CE	2.47	0.44
46:AD:55:THR:HG23	46:BD:283:ALA:HA	1.99	0.44
46:AD:68:LEU:HD23	46:AD:97:ALA:N	2.32	0.44
45:AK:141:VAL:HG11	45:AK:172:TYR:CD1	2.53	0.44
45:AK:177:VAL:HG13	46:AL:327:ASP:OD1	2.18	0.44
45:AK:210:TYR:CE1	45:AK:227:LEU:HD21	2.52	0.44
46:AL:3:GLU:CD	46:AL:3:GLU:H	2.21	0.44
46:AL:272:PRO:HG3	46:AL:284:LEU:HD11	2.00	0.44
45:AM:26:LEU:HD21	45:AM:364:PRO:HD2	2.00	0.44
45:AM:413:MET:HB3	45:AM:413:MET:HE2	1.89	0.44
46:AN:262:ARG:HH12	46:AN:421:GLU:HG3	1.83	0.44
45:BC:183:GLU:N	45:BC:184:PRO:HD2	2.33	0.44
46:BD:252:LYS:O	46:BD:256:ASN:ND2	2.50	0.44
45:BG:207:GLU:HB3	45:BG:304:LYS:HG3	1.98	0.44
46:BH:221:THR:OG1	46:BH:222:TYR:N	2.51	0.44
46:BJ:184:ASN:OD1	46:BJ:185:ALA:N	2.51	0.44
45:BK:97:GLU:CD	45:BK:105:ARG:HH12	2.19	0.44
45:BM:68:LEU:HD11	45:BM:118:CYS:HB2	1.99	0.44
45:BM:401:LYS:HD3	45:BM:401:LYS:O	2.18	0.44
45:CA:167:LEU:HD22	45:CA:200:VAL:HB	1.99	0.44
46:CB:213:ARG:HH21	46:CB:297:LYS:HG3	1.83	0.44
46:CD:209:ASP:OD1	46:CD:213:ARG:NH1	2.51	0.44
46:CH:55:THR:HG23	46:DH:283:ALA:HA	2.00	0.44
46:CJ:183:TYR:O	46:CJ:187:LEU:HD23	2.18	0.44
46:CJ:238:CYS:SG	46:CJ:239:CYS:N	2.91	0.44
45:CK:89:PRO:HD2	45:DK:280:LYS:HE3	1.99	0.44
45:CK:117:LEU:O	45:CK:121:ARG:HG2	2.18	0.44
45:CM:21:TRP:HZ2	45:CM:65:ALA:HB2	1.82	0.44
45:DA:91:GLN:HB3	45:DA:121:ARG:HD2	2.00	0.44
45:DE:349:THR:O	46:DF:179:VAL:HG23	2.18	0.44
46:DF:208:TYR:CE1	46:DF:225:LEU:HD11	2.53	0.44
46:DF:252:LYS:HE2	45:DG:101:ASN:HB2	2.00	0.44
45:DI:55:GLU:CD	45:DI:57:GLY:H	2.21	0.44
45:DI:141:VAL:HG12	45:DI:171:ILE:O	2.17	0.44
45:DI:346:TRP:CD1	46:DJ:391:ARG:HG3	2.53	0.44
46:DL:150:LEU:HB2	46:DL:154:LYS:NZ	2.31	0.44
46:DL:384:GLN:O	46:DL:388:MET:HG2	2.17	0.44
45:EA:271:SER:HA	45:EA:302:MET:HG2	1.98	0.44
46:EF:171:PRO:HG2	46:EF:185:ALA:HB2	1.99	0.44
45:EG:101:ASN:HA	45:EG:144:GLY:H	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EH:39:ASP:OD2	46:EH:40:SER:N	2.51	0.44
46:EH:114:ASP:OD1	46:EH:115:SER:N	2.48	0.44
46:EJ:164:MET:O	46:EJ:197:ASP:HB2	2.18	0.44
45:EK:319:TYR:HB3	45:EK:323:VAL:HG21	1.99	0.44
46:FB:201:VAL:HG23	46:FB:301:CYS:SG	2.58	0.44
45:FC:64:ARG:NH1	45:FC:129:CYS:SG	2.91	0.44
46:FD:355:ASP:OD1	46:FD:356:ILE:HD12	2.18	0.44
45:FE:194:LEU:O	45:FE:198:THR:HG22	2.18	0.44
45:FG:105:ARG:NH1	46:FH:251:ARG:HD3	2.33	0.44
45:FI:244:PHE:HB2	45:FI:356:ASN:HD21	1.83	0.44
46:FJ:113:ILE:HD13	46:FJ:154:LYS:NZ	2.32	0.44
45:FK:107:HIS:ND1	45:FK:107:HIS:O	2.51	0.44
46:FN:273:LEU:N	46:FN:292:GLN:HE22	2.06	0.44
46:FN:312:THR:HG22	46:FN:370:ASN:HB3	2.00	0.44
45:GA:223:THR:HG23	45:GA:225:THR:H	1.82	0.44
45:GC:133:GLN:OE1	45:GC:133:GLN:HA	2.16	0.44
46:GD:115:SER:O	46:GD:119:VAL:HG23	2.18	0.44
45:GE:294:SER:O	45:GE:297:GLU:HG3	2.18	0.44
45:GK:55:GLU:HG3	45:GK:57:GLY:H	1.82	0.44
45:GK:332:ILE:HD12	45:GK:351:PHE:CD1	2.52	0.44
46:GL:214:THR:HG23	46:GL:215:LEU:HD12	1.98	0.44
45:GM:68:LEU:HD21	45:GM:118:CYS:SG	2.57	0.44
46:GN:385:PHE:CE2	46:GN:412:GLU:HB3	2.51	0.44
46:HB:119:VAL:HA	46:HB:122:LYS:HG2	1.98	0.44
46:HD:68:LEU:HD13	46:HD:93:GLY:HA3	1.99	0.44
45:HE:377:MET:SD	45:HE:379:SER:HB3	2.57	0.44
46:HJ:317:PHE:HB3	46:HJ:321:MET:HE2	1.99	0.44
45:HK:188:ILE:HD12	45:HK:425:LEU:HD11	1.99	0.44
46:HL:319:GLY:HA2	46:HL:357:PRO:HD3	2.00	0.44
45:HM:18:ASN:O	45:HM:22:GLU:HG2	2.18	0.44
45:HM:210:TYR:CE1	45:HM:227:LEU:HD11	2.53	0.44
46:HN:300:MET:N	46:HN:300:MET:SD	2.91	0.44
45:IA:88:HIS:CE1	45:IA:90:GLU:HB3	2.53	0.44
45:IA:122:ILE:HD12	45:IA:157:LEU:HD21	1.99	0.44
46:IB:196:ALA:HB3	46:IB:264:HIS:HE1	1.81	0.44
46:IB:238:CYS:HB2	46:IB:318:ARG:NH1	2.32	0.44
46:ID:30:ILE:HG13	46:ID:51:TYR:HE2	1.82	0.44
45:IG:88:HIS:O	45:IG:91:GLN:HG2	2.18	0.44
45:II:174:SER:HB2	45:II:177:VAL:O	2.18	0.44
45:II:241:SER:OG	45:II:250:VAL:O	2.17	0.44
45:IK:18:ASN:O	45:IK:22:GLU:OE1	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:105:HIS:CE1	46:IL:150:LEU:HD12	2.52	0.44
45:JA:35:GLN:N	45:JA:35:GLN:OE1	2.51	0.44
46:JB:284:LEU:HD12	46:JB:362:LYS:HZ3	1.83	0.44
45:JC:21:TRP:CH2	45:JC:63:PRO:HB3	2.52	0.44
45:JC:98:ASP:O	45:JC:105:ARG:NH1	2.51	0.44
46:JD:232:ALA:O	46:JD:236:VAL:HG23	2.18	0.44
45:JE:340:THR:HG23	45:JE:341:ILE:HD12	1.99	0.44
45:JG:227:LEU:O	45:JG:231:ILE:HG12	2.18	0.44
45:JG:408:TYR:O	45:JG:413:MET:HB3	2.17	0.44
46:JL:11:GLN:O	46:JL:15:GLN:HG2	2.18	0.44
45:KA:338:LYS:HZ2	45:KA:339:ARG:H	1.66	0.44
45:KA:338:LYS:HZ3	45:KA:339:ARG:HG3	1.82	0.44
45:KC:167:LEU:HG	45:KC:200:VAL:HB	1.99	0.44
46:KD:121:ARG:NE	46:KD:158:GLU:OE2	2.33	0.44
45:KE:251:ASP:H	45:KE:254:GLU:HB2	1.83	0.44
46:KF:206:ALA:O	46:KF:210:ILE:HG12	2.17	0.44
45:KG:107:HIS:ND1	45:KG:107:HIS:O	2.49	0.44
46:KJ:313:ALA:HB1	46:KJ:367:PHE:HE1	1.82	0.44
46:KL:217:LEU:HD11	46:KL:220:PRO:HB3	1.98	0.44
46:LF:330:MET:CE	46:LF:349:ILE:HG21	2.47	0.44
46:LF:372:THR:HA	46:LF:422:TYR:CZ	2.52	0.44
46:LJ:156:ARG:HG3	46:LJ:195:ASN:HB3	2.00	0.44
45:LM:408:TYR:HD2	45:LM:418:PHE:HZ	1.66	0.44
45:MA:101:ASN:HA	45:MA:144:GLY:H	1.81	0.44
45:MA:260:VAL:HG12	45:MA:266:HIS:HA	2.00	0.44
46:MD:21:TRP:CZ2	46:MD:63:ALA:HB2	2.52	0.44
46:MD:117:LEU:HA	46:MD:120:VAL:HG12	1.98	0.44
46:MD:122:LYS:HD2	46:MD:122:LYS:C	2.38	0.44
45:ME:328:VAL:O	45:ME:332:ILE:HG12	2.18	0.44
46:MF:101:TRP:CE3	46:MF:187:LEU:HD23	2.53	0.44
45:MG:84:ARG:H	45:MG:84:ARG:HG2	1.65	0.44
46:MJ:273:LEU:H	46:MJ:292:GLN:NE2	2.14	0.44
45:MM:11:GLN:H	45:MM:11:GLN:CD	2.21	0.44
45:NE:210:TYR:OH	46:NF:323:THR:OG1	2.26	0.44
46:NH:31:ASP:HB2	46:NH:32:PRO:CD	2.48	0.44
45:NI:210:TYR:CE1	45:NI:227:LEU:HD11	2.45	0.44
45:OA:203:MET:SD	45:OA:267:PHE:HB3	2.58	0.44
45:OC:253:THR:O	45:OC:257:THR:HG23	2.17	0.44
45:OC:329:ASN:ND2	46:OF:175:VAL:HG12	2.33	0.44
46:OF:391:ARG:HA	46:OF:391:ARG:HD2	1.77	0.44
45:OG:426:ALA:O	45:OG:429:GLU:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OI:210:TYR:CE1	45:OI:227:LEU:HD21	2.52	0.44
46:OJ:6:HIS:CD2	46:OJ:21:TRP:HE1	2.36	0.44
46:OJ:258:ILE:HG13	46:OJ:266:PHE:HZ	1.82	0.44
45:OM:326:LYS:HE3	45:OM:326:LYS:HB2	1.77	0.44
46:ON:372:THR:HG21	46:ON:426:GLN:HG3	2.00	0.44
46:ON:399:THR:HA	46:ON:403:MET:O	2.18	0.44
45:PA:328:VAL:HG11	45:PA:353:VAL:HG21	1.99	0.44
45:PI:90:GLU:N	45:QI:280:LYS:HZ1	2.13	0.44
46:PJ:293:MET:HE1	46:PJ:367:PHE:CD1	2.53	0.44
46:PJ:312:THR:HG22	46:PJ:370:ASN:HB3	1.99	0.44
45:PK:51:THR:HG21	45:PK:243:ARG:HB3	2.00	0.44
45:PK:324:VAL:HG12	45:PK:326:LYS:HG2	2.00	0.44
46:PL:294:PHE:CD1	46:PL:333:VAL:HG21	2.53	0.44
45:PM:10:GLY:O	45:PM:14:ILE:HG12	2.17	0.44
45:PM:398:MET:HE1	46:PN:345:ILE:HA	1.99	0.44
45:PM:427:ALA:HA	45:PM:430:LYS:NZ	2.32	0.44
46:PN:181:GLU:OE1	46:PN:181:GLU:HA	2.18	0.44
46:PN:381:VAL:HA	46:PN:384:GLN:HE21	1.82	0.44
45:QA:326:LYS:HD3	46:QB:212:PHE:CZ	2.53	0.44
46:QB:309:ARG:HH21	46:QB:342:VAL:HG23	1.82	0.44
46:QB:330:MET:HA	46:QB:333:VAL:HG12	1.99	0.44
45:QE:417:GLU:HA	45:QE:420:GLU:OE2	2.17	0.44
46:QF:312:THR:HG22	46:QF:370:ASN:HB3	1.99	0.44
45:QG:264:ARG:HG3	45:QG:264:ARG:HH11	1.82	0.44
46:QH:187:LEU:HD21	46:QH:408:PHE:HE2	1.83	0.44
46:QH:293:MET:HE2	46:QH:367:PHE:HB2	1.99	0.44
46:QH:347:ASN:ND2	45:QI:178:SER:OG	2.34	0.44
46:QJ:18:ALA:O	46:QJ:22:GLU:HG3	2.16	0.44
46:QJ:45:GLU:CD	46:QJ:46:ARG:HG2	2.39	0.44
46:QJ:108:GLU:O	46:QJ:111:GLU:HG3	2.18	0.44
45:QK:143:GLY:HA3	47:QK:501:GTP:O2B	2.18	0.44
46:QL:164:MET:HG3	46:QL:197:ASP:OD2	2.16	0.44
46:QL:238:CYS:SG	46:QL:239:CYS:N	2.90	0.44
45:RA:262:TYR:OH	46:RB:391:ARG:O	2.35	0.44
46:RB:174:LYS:HB2	46:RB:205:GLU:HG3	1.99	0.44
46:RB:232:ALA:HA	46:RB:270:PHE:HD2	1.83	0.44
45:RC:428:LEU:HG	45:RC:432:TYR:HE2	1.83	0.44
46:RF:72:THR:OG1	46:RF:73:MET:SD	2.74	0.44
46:RF:311:LEU:HD22	46:RF:370:ASN:ND2	2.33	0.44
45:RG:154:LEU:HD13	45:RG:197:HIS:HB3	1.99	0.44
46:RH:274:THR:HB	46:RH:282:ARG:HE	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RH:350:LYS:NZ	46:RH:352:SER:OG	2.27	0.44
45:RI:8:HIS:NE2	45:RI:138:PHE:HD2	2.16	0.44
45:RI:387:VAL:HA	45:RI:390:ARG:HG2	1.99	0.44
46:RJ:46:ARG:NH1	46:RJ:243:PRO:HD3	2.31	0.44
45:RK:241:SER:OG	45:RK:250:VAL:O	2.28	0.44
45:SA:141:VAL:HG11	45:SA:172:TYR:HD1	1.83	0.44
45:SA:210:TYR:CE1	45:SA:227:LEU:HD11	2.53	0.44
45:SA:346:TRP:CD1	46:SB:391:ARG:HG3	2.52	0.44
45:SC:388:PHE:HB3	45:SC:425:LEU:HD11	1.99	0.44
46:SD:69:GLU:OE2	46:SD:72:THR:HG23	2.18	0.44
46:SD:252:LYS:HA	46:SD:255:VAL:HG12	1.98	0.44
46:SF:116:VAL:O	46:SF:120:VAL:HG22	2.17	0.44
46:SF:258:ILE:HG13	46:SF:258:ILE:O	2.17	0.44
46:SH:318:ARG:HH11	46:SH:358:PRO:HG3	1.81	0.44
45:SI:434:GLU:O	45:SI:437:ILE:HG22	2.18	0.44
45:SK:254:GLU:HA	45:SK:257:THR:HG22	1.98	0.44
46:SN:65:LEU:HD22	46:SN:90:PHE:CE1	2.52	0.44
45:TC:7:ILE:HB	45:TC:137:VAL:HG12	1.99	0.44
46:TD:290:THR:O	46:TD:293:MET:HB3	2.18	0.44
46:TH:317:PHE:CD1	46:TH:365:VAL:HG22	2.53	0.44
45:TI:51:THR:HG22	45:TI:52:PHE:CD1	2.52	0.44
46:TJ:73:MET:HA	46:TJ:76:VAL:HG12	1.99	0.44
45:TK:231:ILE:O	45:TK:235:ILE:HG12	2.17	0.44
46:TL:390:ARG:HA	46:TL:390:ARG:NE	2.33	0.44
45:TM:19:ALA:HA	45:TM:22:GLU:OE1	2.18	0.44
45:TM:320:ARG:N	45:TM:373:ARG:HH12	2.15	0.44
46:UB:132:GLY:HA2	46:UB:162:ARG:HB3	1.99	0.44
45:UC:229:ARG:O	45:UC:233:GLN:HG2	2.18	0.44
46:UH:2:ARG:NH2	45:UI:96:LYS:O	2.50	0.44
45:UI:326:LYS:HD3	46:UJ:212:PHE:CZ	2.52	0.44
46:UL:87:PRO:HA	46:UL:90:PHE:HD2	1.82	0.44
46:UL:391:ARG:HA	46:UL:391:ARG:HD2	1.75	0.44
46:UN:22:GLU:HG2	46:UN:81:PHE:CD1	2.53	0.44
46:VB:172:SER:OG	46:VB:205:GLU:OE2	2.27	0.44
46:VB:214:THR:HB	46:VB:297:LYS:NZ	2.32	0.44
46:VB:282:ARG:HD3	46:VB:283:ALA:O	2.18	0.44
45:VC:251:ASP:H	45:VC:254:GLU:HG3	1.82	0.44
45:VC:326:LYS:HD3	46:VF:220:PRO:HD2	2.00	0.44
45:VC:352:LYS:NZ	46:VF:179:VAL:HG22	2.32	0.44
46:VD:3:GLU:OE1	46:VD:127:CYS:HB2	2.18	0.44
46:VD:3:GLU:OE2	46:VD:3:GLU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VD:44:LEU:HD22	46:VD:47:ILE:HD13	1.99	0.44
46:VF:42:LEU:HA	46:VF:45:GLU:HG2	2.00	0.44
46:VF:376:GLU:O	46:VF:379:LYS:HG2	2.18	0.44
45:VG:47:ASP:OD1	45:VG:47:ASP:N	2.50	0.44
45:VG:209:ILE:HG13	45:VG:302:MET:HE1	1.98	0.44
46:VJ:101:TRP:HB3	46:VJ:398:TYR:HE1	1.81	0.44
45:VK:331:SER:O	45:VK:335:ILE:HG12	2.18	0.44
46:VL:204:ASN:O	46:VL:208:TYR:HD1	2.01	0.44
46:WB:190:HIS:CD2	46:WB:414:ASN:HD22	2.35	0.44
46:WD:165:GLU:OE1	46:WD:198:GLU:HB2	2.18	0.44
45:WG:152:LEU:HD13	45:WG:155:GLU:OE2	2.17	0.44
45:WI:111:GLY:O	45:WI:115:VAL:HG13	2.17	0.44
45:WK:103:PHE:CE1	45:WK:148:GLY:HA2	2.53	0.44
46:WL:45:GLU:HG3	46:WL:46:ARG:HD3	2.00	0.44
45:WM:68:LEU:HD21	45:WM:149:LEU:HD12	1.99	0.44
46:WN:203:ASP:HB2	46:WN:301:CYS:HA	2.00	0.44
45:DC:328:VAL:O	45:DC:332:ILE:HG12	2.17	0.44
1:0A:58:TYR:OH	46:MB:45:GLU:OE1	2.33	0.44
8:1H:60:ARG:NH1	46:HN:33:THR:HG23	2.33	0.44
14:1V:93:MET:O	46:LJ:261:PRO:HB2	2.16	0.44
31:2I:32:PHE:HE1	45:GG:177:VAL:HG21	1.82	0.44
31:2I:96:TRP:HB3	46:FF:125:GLU:OE1	2.16	0.44
23:2O:352:ARG:HH22	46:VF:276:ARG:HH12	1.66	0.44
13:2U:224:ARG:NH1	45:WG:40:LYS:O	2.50	0.44
5:3E:121:ARG:O	34:6R:579:ASN:ND2	2.26	0.44
31:3I:205:ILE:HD13	45:FK:116:ASP:OD2	2.18	0.44
15:3X:49:ILE:HD11	45:MM:282:TYR:CG	2.49	0.44
34:4R:316:THR:O	46:CF:227:HIS:NE2	2.45	0.44
35:4S:214:LEU:H	35:4S:214:LEU:HD23	1.83	0.44
36:5B:127:GLU:OE2	46:NH:276:ARG:NH2	2.51	0.44
36:5D:63:THR:O	36:5D:64:LYS:HE2	2.18	0.44
37:5F:117:ILE:HG22	37:5F:119:GLU:H	1.83	0.44
35:5S:176:GLY:O	35:5S:180:VAL:HG23	2.17	0.44
40:6G:245:SER:O	46:VD:340:TYR:OH	2.34	0.44
41:6H:380:ASP:OD1	41:6H:381:GLN:N	2.46	0.44
41:6H:382:PHE:HZ	45:FK:363:VAL:HG23	1.83	0.44
10:6Q:58:TYR:HB2	10:6Q:155:GLN:OE1	2.18	0.44
34:6R:469:LYS:N	46:EN:77:ARG:HH21	2.13	0.44
34:7R:456:TYR:CE2	45:EA:46:ASP:HB3	2.53	0.44
45:AA:99:ALA:HB3	45:AA:145:THR:HG22	2.00	0.44
45:AC:178:SER:HB2	45:AC:183:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AE:51:THR:HG22	45:AE:52:PHE:CD1	2.53	0.44
45:AE:284:GLU:HG2	45:AE:286:LEU:HD22	2.00	0.44
46:AH:11:GLN:O	46:AH:15:GLN:HG2	2.18	0.44
46:AH:238:CYS:HB2	46:AH:318:ARG:NH2	2.32	0.44
46:AH:281:TYR:OH	46:MH:83:GLN:NE2	2.48	0.44
45:AI:71:GLU:HA	45:AI:72:PRO:HD3	1.90	0.44
45:AI:288:VAL:HA	45:AI:291:ILE:HG12	2.00	0.44
46:AJ:286:VAL:HG23	46:AJ:287:PRO:HD3	2.00	0.44
46:AL:31:ASP:OD2	46:AL:37:HIS:CD2	2.71	0.44
46:AL:344:TRP:CE3	46:AL:345:ILE:HG23	2.53	0.44
45:AM:71:GLU:HG2	46:AN:247:ASN:ND2	2.33	0.44
45:AM:107:HIS:ND1	45:AM:107:HIS:O	2.51	0.44
45:BA:10:GLY:O	45:BA:13:GLY:N	2.51	0.44
46:BD:164:MET:O	46:BD:197:ASP:HB3	2.17	0.44
45:BE:102:ASN:HB3	45:BE:105:ARG:HB2	1.99	0.44
46:BF:204:ASN:OD1	49:BF:501:GDP:O2'	2.34	0.44
46:BF:213:ARG:O	46:BF:216:LYS:HG2	2.17	0.44
45:BM:239:THR:HG23	45:BM:243:ARG:NH1	2.32	0.44
45:CA:66:VAL:HG11	45:CA:122:ILE:HD11	2.00	0.44
45:CA:335:ILE:HA	45:CA:338:LYS:HZ1	1.82	0.44
46:CB:213:ARG:HG2	46:CB:214:THR:N	2.32	0.44
46:CB:350:LYS:NZ	45:CC:181:VAL:H	2.14	0.44
45:CI:393:HIS:O	45:CI:397:LEU:HD23	2.17	0.44
46:CJ:347:ASN:OD1	45:CK:178:SER:OG	2.22	0.44
45:CK:216:ASN:HB3	45:CK:275:ILE:O	2.18	0.44
45:CM:277:SER:C	45:CM:369:ALA:HB2	2.38	0.44
46:DD:290:THR:O	46:DD:293:MET:HB3	2.16	0.44
46:DH:70:PRO:HA	46:DH:73:MET:SD	2.58	0.44
46:DH:284:LEU:HD12	46:DH:363:MET:HB2	1.99	0.44
46:DJ:25:SER:OG	46:DJ:30:ILE:O	2.35	0.44
46:DJ:73:MET:CE	46:DJ:92:PHE:HB3	2.48	0.44
46:DJ:260:PHE:HB2	46:DJ:263:LEU:HD13	2.00	0.44
46:DL:99:ASN:HA	46:DL:142:GLY:H	1.82	0.44
45:EC:224:TYR:HD1	45:EC:227:LEU:HD12	1.83	0.44
45:EE:51:THR:HG22	45:EE:52:PHE:CD1	2.53	0.44
45:EE:88:HIS:HB3	45:EE:91:GLN:CG	2.48	0.44
45:EE:121:ARG:HD2	45:EE:121:ARG:HA	1.75	0.44
45:EE:324:VAL:O	45:EE:328:VAL:HG23	2.18	0.44
45:EE:326:LYS:HA	45:EE:326:LYS:HD3	1.78	0.44
46:EH:213:ARG:NE	46:EH:297:LYS:NZ	2.66	0.44
45:EK:262:TYR:OH	46:EL:391:ARG:O	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EL:217:LEU:HD23	46:EL:220:PRO:HA	2.00	0.44
46:EL:409:THR:O	46:EL:412:GLU:HG3	2.17	0.44
46:EN:312:THR:HG22	46:EN:370:ASN:HB3	2.00	0.44
45:FA:100:ALA:HB1	46:FB:252:LYS:HA	1.99	0.44
45:FA:293:ASN:O	45:FA:297:GLU:HG2	2.18	0.44
46:FB:318:ARG:O	46:FB:363:MET:HA	2.17	0.44
45:FC:21:TRP:CZ2	45:FC:65:ALA:HB2	2.52	0.44
46:FF:237:THR:HG23	46:FF:241:ARG:HH11	1.81	0.44
46:FH:9:GLY:HA2	46:FH:66:MET:O	2.17	0.44
45:FI:118:CYS:O	45:FI:122:ILE:HG12	2.18	0.44
45:FI:183:GLU:N	45:FI:184:PRO:HD2	2.32	0.44
46:FJ:342:VAL:HG13	46:FJ:345:ILE:HG22	2.00	0.44
45:FK:90:GLU:HG3	45:FK:121:ARG:NH1	2.19	0.44
45:FK:245:ASP:N	45:FK:245:ASP:OD1	2.51	0.44
45:FK:419:SER:O	45:FK:422:ARG:N	2.51	0.44
45:GE:251:ASP:HB2	45:GE:253:THR:HG22	2.00	0.44
45:GG:147:SER:HB2	45:GG:190:SER:HB3	1.99	0.44
46:GH:282:ARG:NE	46:GH:288:GLU:OE1	2.50	0.44
45:GI:241:SER:OG	45:GI:250:VAL:O	2.23	0.44
46:GJ:391:ARG:HD2	46:GJ:391:ARG:HA	1.79	0.44
45:GM:102:ASN:HB3	45:GM:105:ARG:HB2	1.98	0.44
46:GN:359:LYS:HD3	46:GN:359:LYS:C	2.38	0.44
45:HC:231:ILE:O	45:HC:235:ILE:HG12	2.18	0.44
46:HF:109:GLY:HA2	46:HF:147:MET:CE	2.47	0.44
45:HI:387:VAL:HG12	45:HI:390:ARG:NH1	2.32	0.44
45:HK:286:LEU:HA	45:HK:290:GLU:OE2	2.18	0.44
45:HM:167:LEU:HG	45:HM:200:VAL:HB	2.00	0.44
46:HN:217:LEU:HB2	46:HN:220:PRO:HG3	2.00	0.44
45:IA:297:GLU:HG3	45:IA:299:ALA:H	1.83	0.44
45:IC:210:TYR:CE1	45:IC:227:LEU:HD21	2.52	0.44
46:ID:117:LEU:HD13	46:ID:121:ARG:HH22	1.82	0.44
45:IE:88:HIS:HA	46:JF:281:TYR:CD1	2.53	0.44
45:IE:227:LEU:O	45:IE:231:ILE:HG12	2.18	0.44
45:IG:217:LEU:HD23	45:IG:217:LEU:HA	1.84	0.44
46:IH:134:GLN:HA	46:IH:165:GLU:HB3	1.99	0.44
46:IH:189:VAL:HG13	46:IH:415:MET:HE1	2.00	0.44
46:IJ:3:GLU:OE2	46:IJ:128:ASP:N	2.50	0.44
46:IL:12:CYS:O	46:IL:16:ILE:HG12	2.18	0.44
45:IM:331:SER:O	45:IM:335:ILE:HG12	2.18	0.44
45:JE:31:GLN:NE2	45:JE:37:PRO:HG3	2.27	0.44
46:JH:115:SER:O	46:JH:119:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JH:163:ILE:HD11	46:JH:251:ARG:HE	1.82	0.44
46:JH:317:PHE:HB3	46:JH:321:MET:CE	2.47	0.44
46:JJ:238:CYS:HB2	46:JJ:318:ARG:HE	1.82	0.44
45:JK:88:HIS:HB3	45:JK:91:GLN:HG2	2.00	0.44
45:JM:393:HIS:O	45:JM:397:LEU:HD23	2.17	0.44
45:KA:338:LYS:HZ2	45:KA:339:ARG:N	2.15	0.44
45:KE:269:LEU:HD12	45:KE:303:ALA:HB3	1.98	0.44
45:KG:227:LEU:O	45:KG:231:ILE:HG12	2.18	0.44
45:KI:75:ILE:O	45:KI:79:ARG:HG3	2.18	0.44
46:KJ:150:LEU:O	46:KJ:154:LYS:HG2	2.17	0.44
46:KL:183:TYR:HB3	46:KL:398:TYR:HE2	1.82	0.44
45:KM:372:MET:SD	45:KM:372:MET:N	2.91	0.44
46:KN:19:LYS:NZ	46:KN:227:HIS:HB2	2.32	0.44
45:LA:260:VAL:O	45:LA:260:VAL:HG13	2.18	0.44
45:LA:328:VAL:O	45:LA:332:ILE:HG12	2.18	0.44
45:LE:107:HIS:ND1	45:LE:107:HIS:O	2.51	0.44
46:LF:206:ALA:O	46:LF:210:ILE:HG12	2.18	0.44
46:LF:374:ILE:HG22	46:LF:422:TYR:CZ	2.53	0.44
46:LF:380:ARG:O	46:LF:384:GLN:HG2	2.18	0.44
46:LH:167:PHE:CZ	46:LH:233:MET:HG3	2.53	0.44
45:LK:207:GLU:HA	45:LK:210:TYR:CD2	2.49	0.44
45:LM:112:LYS:HA	45:LM:115:VAL:HG22	2.00	0.44
46:MB:167:PHE:CZ	46:MB:233:MET:HG3	2.53	0.44
46:MD:297:LYS:HA	46:MD:297:LYS:HD3	1.68	0.44
46:MD:396:HIS:HA	46:MD:399:THR:OG1	2.17	0.44
45:ME:213:CYS:HA	45:ME:217:LEU:HD23	2.00	0.44
46:MF:113:ILE:HA	46:MF:116:VAL:HG12	1.99	0.44
45:MG:223:THR:HG23	45:MG:225:THR:H	1.82	0.44
46:MH:116:VAL:HA	46:MH:119:VAL:HG12	2.00	0.44
45:MM:220:GLU:O	45:MM:221:ARG:HD2	2.18	0.44
45:NA:11:GLN:HG2	45:NA:15:GLN:HE22	1.82	0.44
45:NA:333:ALA:O	45:NA:337:THR:HG23	2.18	0.44
45:NC:75:ILE:HG23	45:NC:92:LEU:HB3	1.99	0.44
45:NE:431:ASP:O	45:NE:435:VAL:HG23	2.17	0.44
46:NH:174:LYS:HB2	46:NH:205:GLU:OE2	2.18	0.44
46:NJ:207:LEU:HB3	46:NJ:225:LEU:HD22	2.00	0.44
45:NM:107:HIS:O	45:NM:107:HIS:ND1	2.51	0.44
45:NM:215:ARG:NH2	45:NM:300:ASN:HD21	2.16	0.44
45:NM:422:ARG:HD2	45:NM:422:ARG:HA	1.86	0.44
45:OA:87:PHE:HB3	45:OA:91:GLN:NE2	2.33	0.44
45:OA:89:PRO:HD2	45:PA:280:LYS:HE2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:326:LYS:HE3	46:OF:208:TYR:CE1	2.52	0.44
46:OD:52:ASN:ND2	46:OD:62:ARG:HB3	2.33	0.44
46:OD:117:LEU:HA	46:OD:120:VAL:HG12	1.99	0.44
46:OD:184:ASN:OD1	46:OD:185:ALA:N	2.51	0.44
45:OE:69:ASP:OD1	45:OE:70:LEU:N	2.49	0.44
45:OE:111:GLY:O	45:OE:115:VAL:HG13	2.17	0.44
45:OG:101:ASN:HA	45:OG:144:GLY:H	1.83	0.44
45:PA:141:VAL:HG11	45:PA:172:TYR:CD1	2.50	0.44
45:PA:148:GLY:O	45:PA:152:LEU:HD23	2.18	0.44
45:PA:208:ALA:O	45:PA:212:ILE:HG12	2.18	0.44
45:PA:213:CYS:SG	45:PA:219:ILE:HB	2.58	0.44
45:PC:97:GLU:HB2	45:PC:110:ILE:HD13	2.00	0.44
46:PD:102:ALA:H	46:PD:398:TYR:HE1	1.66	0.44
46:PD:183:TYR:O	46:PD:187:LEU:HG	2.17	0.44
45:PE:175:PRO:HA	45:PE:390:ARG:CZ	2.48	0.44
45:PE:258:ASN:HD21	45:PE:352:LYS:HE3	1.83	0.44
45:PG:256:GLN:NE2	45:PG:257:THR:HG23	2.33	0.44
46:PH:3:GLU:OE2	46:PH:127:CYS:HB2	2.17	0.44
46:PJ:46:ARG:HD3	46:PJ:46:ARG:HA	1.76	0.44
45:PK:84:ARG:HD2	45:PK:85:GLN:HE22	1.83	0.44
45:PK:100:ALA:HA	46:PL:252:LYS:HG2	2.00	0.44
45:PK:210:TYR:CE2	46:PL:324:LYS:HG3	2.53	0.44
46:PL:21:TRP:CZ3	46:PL:61:PRO:HB3	2.53	0.44
46:PL:372:THR:HA	46:PL:422:TYR:CE2	2.53	0.44
45:PM:387:VAL:O	45:PM:390:ARG:HG3	2.18	0.44
45:QA:280:LYS:HZ3	45:QA:283:HIS:HB2	1.83	0.44
45:QA:308:ARG:HA	45:QA:308:ARG:CZ	2.48	0.44
45:QC:259:LEU:HB3	45:QC:268:MET:SD	2.58	0.44
46:QD:239:CYS:SG	46:QD:354:CYS:HB2	2.58	0.44
46:QF:375:GLN:NE2	46:QF:379:LYS:HE2	2.32	0.44
45:QG:434:GLU:O	45:QG:437:ILE:HG12	2.18	0.44
46:QH:2:ARG:HB2	46:QH:240:LEU:HD21	1.99	0.44
46:QN:318:ARG:HH11	46:QN:358:PRO:HG3	1.82	0.44
45:RA:387:VAL:HA	45:RA:390:ARG:HG2	1.98	0.44
46:RB:138:SER:HA	46:RB:169:VAL:HG22	1.99	0.44
46:RB:311:LEU:N	46:RB:370:ASN:O	2.50	0.44
45:RC:5:ILE:HD12	45:RC:125:LEU:HD13	2.00	0.44
45:RC:226:ASN:ND2	45:RC:367:ASP:OD2	2.51	0.44
45:RE:171:ILE:HG22	45:RE:204:LEU:HB2	2.00	0.44
46:RH:73:MET:CE	46:RH:92:PHE:HB3	2.48	0.44
46:RH:103:LYS:HD3	46:RH:108:GLU:OE2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RJ:226:ASN:HA	46:RJ:229:VAL:HG22	2.00	0.44
46:RL:309:ARG:HB2	46:RL:309:ARG:HH11	1.83	0.44
45:RM:331:SER:O	45:RM:335:ILE:HG12	2.18	0.44
45:RM:353:VAL:HG12	46:RN:177:ASP:HA	1.99	0.44
45:SC:261:PRO:HA	46:SD:394:PHE:CE1	2.52	0.44
46:SD:258:ILE:HG13	45:SE:407:TRP:CZ2	2.52	0.44
45:SE:277:SER:O	45:SE:281:ALA:N	2.51	0.44
45:SE:434:GLU:O	45:SE:437:ILE:HG22	2.17	0.44
46:SF:4:ILE:HG23	46:SF:131:GLN:HB3	2.00	0.44
46:SF:55:THR:HG23	46:TF:283:ALA:HA	1.99	0.44
46:SF:114:ASP:OD1	46:SF:115:SER:N	2.49	0.44
45:SG:254:GLU:OE2	45:SG:257:THR:OG1	2.32	0.44
45:SG:319:TYR:HB3	45:SG:323:VAL:HG11	2.00	0.44
45:SK:428:LEU:HG	45:SK:432:TYR:CE2	2.53	0.44
46:SL:9:GLY:CA	46:SL:66:MET:HB2	2.48	0.44
46:SL:103:LYS:O	46:SL:108:GLU:HG2	2.17	0.44
45:SM:91:GLN:HB3	45:SM:121:ARG:NE	2.33	0.44
45:SM:207:GLU:HB3	45:SM:304:LYS:NZ	2.32	0.44
45:SM:385:ALA:HA	45:SM:388:PHE:HD1	1.83	0.44
45:SM:402:ARG:HH11	45:SM:402:ARG:HA	1.83	0.44
46:TB:15:GLN:OE1	46:TB:226:ASN:ND2	2.51	0.44
46:TB:190:HIS:ND1	46:TB:411:ALA:HA	2.33	0.44
45:TE:70:LEU:HD11	45:TE:149:LEU:HD11	1.99	0.44
46:TH:186:THR:HG23	46:TH:415:MET:HE3	1.99	0.44
46:TH:303:ALA:HA	46:TH:376:GLU:OE2	2.18	0.44
46:TH:383:GLU:HA	46:TH:386:THR:HG22	1.99	0.44
46:TJ:164:MET:H	46:TJ:197:ASP:HB2	1.81	0.44
46:TJ:379:LYS:O	46:TJ:383:GLU:OE1	2.35	0.44
45:TM:387:VAL:HA	45:TM:390:ARG:HG2	1.99	0.44
46:TN:167:PHE:CE2	46:TN:233:MET:HG2	2.53	0.44
46:TN:273:LEU:N	46:TN:292:GLN:HE22	2.13	0.44
45:UC:377:MET:HE2	45:UC:379:SER:HB3	1.99	0.44
46:UD:116:VAL:HA	46:UD:119:VAL:HG12	2.00	0.44
46:UD:175:VAL:O	46:UD:175:VAL:HG23	2.17	0.44
46:UD:396:HIS:HA	46:UD:399:THR:OG1	2.18	0.44
46:UF:119:VAL:O	46:UF:123:GLU:OE1	2.36	0.44
45:UG:88:HIS:CD2	45:VE:280:LYS:HE3	2.53	0.44
45:UG:174:SER:HB2	45:UG:177:VAL:HB	2.00	0.44
46:UH:54:ALA:HB3	46:UH:58:ARG:HG2	2.00	0.44
46:UH:203:ASP:HB3	46:UH:205:GLU:OE1	2.18	0.44
46:UH:383:GLU:O	46:UH:386:THR:HG22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UI:21:TRP:CZ2	45:UI:65:ALA:HB2	2.52	0.44
45:UK:322:ASP:OD1	45:UK:373:ARG:NH1	2.48	0.44
46:UL:11:GLN:O	46:UL:15:GLN:HG2	2.18	0.44
46:UL:86:ARG:HE	46:UL:87:PRO:CD	2.29	0.44
46:UL:114:ASP:O	46:UL:117:LEU:HG	2.18	0.44
46:UL:137:HIS:O	46:UL:168:SER:HA	2.17	0.44
46:UL:199:CYS:HB3	46:UL:265:PHE:HD2	1.83	0.44
46:UL:372:THR:HA	46:UL:422:TYR:CE2	2.47	0.44
46:UN:65:LEU:H	46:UN:85:PHE:HZ	1.64	0.44
46:VB:20:PHE:O	46:VB:24:ILE:HG12	2.17	0.44
46:VB:309:ARG:H	46:VB:372:THR:HG1	1.62	0.44
46:VD:77:ARG:HD3	46:VD:90:PHE:CZ	2.53	0.44
46:VD:164:MET:HE1	46:VD:196:ALA:HA	1.98	0.44
46:VF:200:MET:HG2	46:VF:268:ILE:HG23	2.00	0.44
46:VF:266:PHE:CE1	46:VF:370:ASN:HB2	2.52	0.44
45:VG:75:ILE:HD12	45:VG:94:SER:HB2	1.99	0.44
45:VG:326:LYS:HG3	45:VG:327:ASP:N	2.33	0.44
46:VL:391:ARG:HA	46:VL:391:ARG:HD2	1.77	0.44
46:VN:68:LEU:HD13	46:VN:108:GLU:OE1	2.17	0.44
45:WA:183:GLU:N	45:WA:184:PRO:HD2	2.33	0.44
46:WB:213:ARG:O	46:WB:216:LYS:HE3	2.18	0.44
45:WC:124:LYS:HA	45:WC:127:ASP:OD2	2.18	0.44
45:WC:164:LYS:HD2	45:WC:164:LYS:HA	1.90	0.44
46:WD:248:SER:HA	46:WD:252:LYS:HD2	1.99	0.44
46:WD:325:GLU:HA	46:WD:328:GLU:CG	2.45	0.44
46:WF:138:SER:HA	46:WF:169:VAL:HG22	2.00	0.44
46:WF:406:MET:O	46:WF:410:GLU:HG2	2.18	0.44
46:WJ:217:LEU:HD11	46:WJ:220:PRO:HB3	1.99	0.44
45:WK:372:MET:O	45:WK:373:ARG:HD3	2.18	0.44
45:WM:288:VAL:HA	45:WM:291:ILE:HG12	2.00	0.44
46:WN:208:TYR:CZ	46:WN:225:LEU:HD11	2.53	0.44
46:WN:417:ASP:O	46:WN:420:SER:N	2.51	0.44
45:DC:340:THR:HG23	45:DC:341:ILE:HG13	1.99	0.44
6:OF:20:LEU:HD22	45:EE:362:VAL:CG1	2.46	0.44
7:OG:99:ARG:HB3	46:JN:359:LYS:NZ	2.32	0.44
9:ON:24:GLU:CG	45:IM:84:ARG:HH21	2.31	0.44
17:1F:144:TYR:CE1	46:GL:77:ARG:HG2	2.52	0.44
21:1L:362:LEU:HD21	34:4R:179:ARG:HH12	1.81	0.44
24:1P:302:LYS:NZ	46:TD:362:LYS:HG2	2.32	0.44
24:1P:362:LYS:HD3	46:TB:359:LYS:HA	1.99	0.44
26:1W:128:ARG:HH12	46:LF:219:THR:HG21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:2D:99:ARG:NH1	45:EK:364:PRO:HA	2.32	0.44
20:2K:401:LYS:HE3	46:FH:56:GLY:O	2.18	0.44
25:2R:289:ASN:OD1	46:DH:217:LEU:HD13	2.17	0.44
35:4S:65:PHE:HE1	35:4S:74:LEU:HD21	1.83	0.44
35:4S:209:ARG:HH21	46:WD:119:VAL:CG1	2.14	0.44
36:5A:44:SER:N	36:5A:56:ILE:O	2.40	0.44
36:5C:102:TYR:HA	45:KI:393:HIS:CE1	2.53	0.44
37:5F:44:ARG:NH2	45:OC:285:GLN:HG2	2.33	0.44
37:5F:104:MET:HG3	37:5F:105:LYS:N	2.33	0.44
37:5F:147:GLN:O	37:5F:150:ILE:HG22	2.18	0.44
37:5H:54:LYS:HA	46:ON:227:HIS:CE1	2.53	0.44
34:5R:107:PRO:HA	46:BL:360:GLY:HA3	1.99	0.44
34:5R:380:ARG:HG3	34:5R:380:ARG:O	2.17	0.44
40:6G:268:VAL:HG12	40:6G:270:THR:N	2.27	0.44
40:6G:272:LYS:HB3	40:6G:274:ASN:ND2	2.33	0.44
41:6H:174:MET:N	41:6H:174:MET:SD	2.91	0.44
34:6R:470:PHE:O	46:EN:78:ALA:HA	2.18	0.44
34:7R:50:ASP:OD1	34:7R:51:PRO:HD2	2.18	0.44
34:7R:578:TYR:HE2	34:7R:580:LEU:HD13	1.82	0.44
45:AE:147:SER:HB2	45:AE:190:SER:HB3	2.00	0.44
46:AF:303:ALA:HA	46:AF:376:GLU:OE2	2.17	0.44
45:AG:107:HIS:ND1	45:AG:107:HIS:O	2.51	0.44
45:AG:304:LYS:HB2	45:AG:304:LYS:HE2	1.78	0.44
45:AG:401:LYS:HB2	45:AG:401:LYS:HE3	1.87	0.44
45:AK:97:GLU:HA	45:AK:97:GLU:OE1	2.18	0.44
46:AL:87:PRO:HA	46:AL:90:PHE:HD2	1.83	0.44
46:AL:154:LYS:HZ3	46:AL:154:LYS:HB2	1.83	0.44
45:AM:101:ASN:HD22	46:AN:252:LYS:HD2	1.83	0.44
45:AM:221:ARG:HH21	46:AN:321:MET:HA	1.83	0.44
45:BA:174:SER:C	45:BA:390:ARG:HH21	2.21	0.44
46:BB:38:GLY:HA3	46:BB:43:GLN:NE2	2.33	0.44
46:BB:49:VAL:HG12	46:BB:50:TYR:CD1	2.53	0.44
46:BB:65:LEU:HD22	46:BB:90:PHE:CE1	2.53	0.44
46:BB:267:MET:SD	46:BB:299:MET:HB3	2.58	0.44
45:BC:288:VAL:HA	45:BC:291:ILE:HG12	1.98	0.44
46:BD:257:LEU:HD11	46:BD:314:SER:HB2	2.00	0.44
45:BG:31:GLN:N	45:BG:31:GLN:OE1	2.50	0.44
45:BK:19:ALA:HA	45:BK:22:GLU:OE1	2.17	0.44
45:BK:339:ARG:NE	45:BK:339:ARG:HA	2.33	0.44
46:BL:175:VAL:HG22	46:BL:205:GLU:OE2	2.18	0.44
46:BL:268:ILE:HG22	46:BL:368:VAL:HG22	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CB:322:SER:O	45:CC:221:ARG:NH2	2.50	0.44
45:CM:192:HIS:ND1	45:CM:424:ASP:OD2	2.51	0.44
46:CN:9:GLY:HA2	46:CN:66:MET:O	2.18	0.44
46:CN:208:TYR:CE1	46:CN:225:LEU:HD11	2.52	0.44
46:DB:135:ILE:HG23	46:DB:166:THR:HG23	2.00	0.44
46:DB:167:PHE:HD2	46:DB:200:MET:HB2	1.83	0.44
46:DB:362:LYS:HE2	46:DB:362:LYS:HB3	1.69	0.44
46:DD:11:GLN:NE2	49:DD:501:GDP:O1A	2.32	0.44
45:DE:434:GLU:HA	45:DE:434:GLU:OE2	2.18	0.44
46:DF:11:GLN:HB3	46:DF:72:THR:HG21	1.98	0.44
46:DF:113:ILE:HA	46:DF:116:VAL:HG12	2.00	0.44
46:DF:281:TYR:CD1	46:DF:281:TYR:CB	2.84	0.44
46:DF:324:LYS:O	46:DF:328:GLU:HG2	2.17	0.44
46:DJ:254:ALA:O	46:DJ:258:ILE:HG12	2.17	0.44
46:DJ:406:MET:O	46:DJ:410:GLU:HG2	2.17	0.44
45:DK:127:ASP:OD1	45:DK:128:ASN:N	2.51	0.44
45:DK:329:ASN:HA	45:DK:332:ILE:HG12	2.00	0.44
46:DL:390:ARG:O	46:DL:392:LYS:NZ	2.51	0.44
45:DM:210:TYR:CE1	45:DM:227:LEU:HD11	2.45	0.44
45:EA:331:SER:O	45:EA:335:ILE:HG12	2.18	0.44
45:EC:82:THR:HG23	45:EC:83:TYR:CD1	2.52	0.44
45:EE:37:PRO:HB2	45:EE:39:ASP:H	1.82	0.44
46:EF:408:PHE:O	46:EF:412:GLU:OE1	2.35	0.44
45:EG:141:VAL:HG12	45:EG:171:ILE:O	2.18	0.44
45:EI:124:LYS:HE2	45:EI:124:LYS:HB2	1.81	0.44
46:EJ:69:GLU:HA	46:EJ:70:PRO:HD3	1.87	0.44
45:EK:429:GLU:O	45:EK:433:GLU:OE1	2.35	0.44
45:EM:52:PHE:CZ	45:EM:239:THR:HG21	2.53	0.44
45:EM:217:LEU:HD22	45:EM:367:ASP:HB3	1.98	0.44
46:EN:391:ARG:HD2	46:EN:391:ARG:HA	1.79	0.44
46:FB:257:LEU:HD11	46:FB:314:SER:HB2	1.99	0.44
46:FD:11:GLN:O	46:FD:15:GLN:HG2	2.18	0.44
46:FF:163:ILE:HD11	46:FF:251:ARG:HB2	1.99	0.44
46:FJ:100:ASN:HD22	46:FJ:398:TYR:HE1	1.65	0.44
46:FN:226:ASN:HA	46:FN:229:VAL:HG12	1.99	0.44
45:GA:21:TRP:HZ2	45:GA:65:ALA:HB2	1.83	0.44
46:GF:7:ILE:HD12	46:GF:64:ILE:HB	1.99	0.44
46:GJ:309:ARG:H	46:GJ:372:THR:HG22	1.83	0.44
45:GK:209:ILE:CG2	45:GK:227:LEU:HD22	2.48	0.44
46:GL:67:ASP:OD1	46:GL:68:LEU:N	2.50	0.44
45:GM:387:VAL:HA	45:GM:390:ARG:HG2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:20:PHE:O	46:GN:24:ILE:HG12	2.17	0.44
45:HA:261:PRO:HA	46:HD:394:PHE:CD2	2.53	0.44
46:HB:10:GLY:O	46:HB:14:ASN:ND2	2.51	0.44
45:HC:21:TRP:CZ2	45:HC:65:ALA:HB2	2.53	0.44
46:HD:149:THR:HG21	46:HD:191:GLN:HE21	1.83	0.44
46:HD:226:ASN:HD21	49:HD:501:GDP:HN1	1.65	0.44
46:HF:257:LEU:HA	46:HF:312:THR:HG21	2.00	0.44
46:HF:302:ALA:HB3	46:HF:377:MET:CE	2.48	0.44
45:HG:9:VAL:HG13	45:HG:139:ASN:HB3	2.00	0.44
45:HG:88:HIS:ND1	45:HG:89:PRO:HD2	2.33	0.44
45:HG:152:LEU:O	45:HG:155:GLU:HG3	2.18	0.44
46:HH:39:ASP:OD1	46:HH:40:SER:N	2.50	0.44
46:HH:316:LEU:HB2	46:HH:366:THR:HG22	1.99	0.44
45:HI:260:VAL:HG23	45:HI:265:ILE:O	2.18	0.44
45:HI:274:PRO:HG3	45:HI:286:LEU:HD12	1.99	0.44
45:HI:387:VAL:O	45:HI:391:LEU:HD23	2.18	0.44
45:HK:268:MET:HG3	45:HK:380:ASN:HB2	2.00	0.44
45:HK:317:MET:HE1	45:HK:332:ILE:HD11	1.99	0.44
46:HL:1:MET:O	46:HL:2:ARG:HG2	2.18	0.44
46:HL:45:GLU:HG3	46:HL:46:ARG:HG2	1.99	0.44
45:IC:384:ILE:O	45:IC:387:VAL:HG22	2.18	0.44
45:IE:11:GLN:NE2	47:IE:501:GTP:O3A	2.50	0.44
46:IF:345:ILE:HG23	46:IF:345:ILE:O	2.18	0.44
45:IG:358:GLN:OE1	45:IG:358:GLN:HA	2.18	0.44
46:IH:396:HIS:CD2	46:IH:397:TRP:HD1	2.36	0.44
46:IL:52:ASN:OD1	46:IL:62:ARG:NH2	2.50	0.44
46:IL:289:LEU:HD23	46:IL:365:VAL:HG23	1.98	0.44
46:IN:97:ALA:HB3	46:IN:143:THR:HB	2.00	0.44
45:JA:216:ASN:HD22	45:JA:275:ILE:HB	1.82	0.44
45:JA:350:GLY:HA2	46:JD:179:VAL:HG12	1.99	0.44
46:JD:148:GLY:O	46:JD:152:ILE:HG13	2.17	0.44
46:JD:207:LEU:HD13	46:JD:225:LEU:HB3	1.98	0.44
46:JF:3:GLU:HG3	46:JF:49:VAL:HA	2.00	0.44
45:JG:422:ARG:NH1	45:JG:422:ARG:O	2.51	0.44
45:JK:28:HIS:HE1	45:JK:243:ARG:HH11	1.66	0.44
45:JK:163:LYS:HE2	45:JK:163:LYS:HA	1.99	0.44
45:JM:276:ILE:HD11	45:JM:280:LYS:HG3	2.00	0.44
45:KE:306:ASP:HB3	45:KE:309:HIS:ND1	2.32	0.44
46:KF:19:LYS:HE2	46:KF:19:LYS:HB3	1.77	0.44
46:KF:116:VAL:HA	46:KF:119:VAL:HG12	2.00	0.44
46:KF:251:ARG:O	46:KF:255:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:352:LYS:NZ	46:KJ:178:THR:HG22	2.33	0.44
45:KI:258:ASN:HD22	45:KI:352:LYS:HD3	1.83	0.44
45:KK:269:LEU:HD13	45:KK:301:MET:CE	2.48	0.44
46:KN:33:THR:O	46:KN:58:ARG:NH1	2.51	0.44
45:LA:209:ILE:HD12	45:LA:227:LEU:HD22	2.00	0.44
45:LA:407:TRP:CZ3	46:LB:255:VAL:HA	2.52	0.44
46:LF:139:LEU:HD22	46:LF:188:SER:CB	2.47	0.44
45:LG:384:ILE:O	45:LG:387:VAL:HG22	2.18	0.44
46:LH:66:MET:HA	46:LH:91:VAL:HG23	2.00	0.44
46:LH:116:VAL:HA	46:LH:119:VAL:HG22	1.99	0.44
45:LI:30:ILE:HD12	45:LI:36:MET:HA	1.98	0.44
46:LL:298:ASN:O	46:LL:298:ASN:ND2	2.51	0.44
45:LM:223:THR:HG22	45:LM:224:TYR:N	2.33	0.44
45:MA:224:TYR:HD1	45:MA:227:LEU:HD12	1.82	0.44
45:MA:387:VAL:HA	45:MA:390:ARG:HG2	2.00	0.44
46:MB:238:CYS:SG	46:MB:239:CYS:N	2.91	0.44
45:MC:107:HIS:ND1	45:MC:107:HIS:O	2.51	0.44
46:MD:7:ILE:CD1	46:MD:64:ILE:HB	2.48	0.44
45:ME:98:ASP:OD1	45:ME:99:ALA:N	2.51	0.44
46:MF:254:ALA:O	46:MF:258:ILE:HG12	2.18	0.44
45:MG:384:ILE:O	45:MG:387:VAL:HG22	2.18	0.44
46:MH:114:ASP:OD1	46:MH:115:SER:N	2.51	0.44
46:MH:171:PRO:HB2	46:MH:181:GLU:OE1	2.18	0.44
45:MK:102:ASN:ND2	45:MK:105:ARG:HG3	2.33	0.44
45:NA:77:GLU:HA	45:NA:80:THR:HG1	1.82	0.44
45:NA:107:HIS:O	45:NA:107:HIS:ND1	2.51	0.44
46:NB:32:PRO:HB3	46:NB:81:PHE:HD1	1.82	0.44
46:NB:101:TRP:HB2	46:NB:184:ASN:HB3	2.00	0.44
45:NC:203:MET:O	45:NC:204:LEU:HD22	2.18	0.44
45:NE:408:TYR:O	45:NE:413:MET:HB3	2.17	0.44
46:NH:190:HIS:CD2	46:NH:414:ASN:HD22	2.36	0.44
46:NJ:45:GLU:OE1	46:NJ:46:ARG:HD2	2.18	0.44
46:NJ:345:ILE:HG23	46:NJ:348:ASN:ND2	2.33	0.44
45:OA:71:GLU:HA	45:OA:72:PRO:HD3	1.89	0.44
45:OE:138:PHE:CE2	45:OE:169:PHE:HD2	2.36	0.44
46:OJ:299:MET:SD	46:OJ:299:MET:N	2.91	0.44
45:OK:358:GLN:NE2	45:OK:359:PRO:O	2.51	0.44
45:OM:194:LEU:HB2	45:OM:198:THR:OG1	2.18	0.44
46:ON:404:ASP:N	46:ON:404:ASP:OD1	2.51	0.44
45:PA:419:SER:O	45:PA:423:GLU:OE1	2.36	0.44
46:PB:131:GLN:NE2	46:PB:251:ARG:HG2	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PC:343:PHE:CZ	45:PC:351:PHE:HE1	2.36	0.44
46:PD:326:VAL:O	46:PD:329:GLN:HG3	2.17	0.44
45:PE:263:PRO:HD3	46:PH:396:HIS:CE1	2.53	0.44
45:PE:272:TYR:HD2	45:PE:275:ILE:HD11	1.83	0.44
46:PF:139:LEU:HA	46:PF:145:SER:HB3	1.99	0.44
45:PG:324:VAL:CG1	45:PG:326:LYS:HG2	2.47	0.44
45:PG:427:ALA:HA	45:PG:430:LYS:HG2	2.00	0.44
45:PI:189:LEU:HD11	45:PI:418:PHE:HE2	1.83	0.44
46:PL:74:ASP:HA	46:PL:77:ARG:HE	1.83	0.44
46:PL:379:LYS:HE3	46:PL:379:LYS:HB3	1.83	0.44
45:PM:175:PRO:HA	45:PM:390:ARG:CZ	2.47	0.44
46:PN:6:HIS:CD2	46:PN:8:GLN:HG3	2.52	0.44
45:QA:265:ILE:HG13	45:QA:265:ILE:O	2.18	0.44
46:QB:69:GLU:HA	46:QB:70:PRO:HD3	1.85	0.44
45:QC:88:HIS:HB3	45:QC:91:GLN:HG2	1.99	0.44
46:QD:238:CYS:SG	46:QD:316:LEU:HD21	2.58	0.44
46:QH:148:GLY:O	46:QH:152:ILE:HG12	2.17	0.44
46:QJ:45:GLU:OE1	46:QJ:46:ARG:HG2	2.18	0.44
46:QJ:69:GLU:CD	46:QJ:71:GLY:H	2.21	0.44
45:QK:99:ALA:HB3	45:QK:145:THR:HB	1.99	0.44
45:QK:118:CYS:O	45:QK:122:ILE:HG12	2.17	0.44
46:QL:345:ILE:O	46:QL:348:ASN:ND2	2.50	0.44
45:QM:397:LEU:HD12	45:QM:398:MET:N	2.33	0.44
46:QN:116:VAL:HA	46:QN:119:VAL:HG12	2.00	0.44
46:RB:217:LEU:HD23	46:RB:219:THR:H	1.82	0.44
46:RF:190:HIS:CE1	46:RF:414:ASN:HD22	2.36	0.44
45:RK:184:PRO:O	45:RK:188:ILE:HG12	2.17	0.44
46:RL:66:MET:HG3	46:RL:91:VAL:CG2	2.48	0.44
46:RL:330:MET:HA	46:RL:333:VAL:HG12	1.99	0.44
46:SD:6:HIS:HE1	46:SD:8:GLN:CG	2.31	0.44
46:SD:383:GLU:HA	46:SD:386:THR:HG22	2.00	0.44
46:SF:8:GLN:OE1	46:SF:17:GLY:HA3	2.18	0.44
46:SF:164:MET:O	46:SF:197:ASP:HB2	2.18	0.44
46:SH:342:VAL:HG13	46:SH:345:ILE:HG22	2.00	0.44
46:SJ:136:THR:HG22	46:SJ:167:PHE:HB2	2.00	0.44
45:SK:227:LEU:H	45:SK:227:LEU:HD12	1.83	0.44
45:SK:319:TYR:HE1	45:SK:328:VAL:HG22	1.82	0.44
45:SK:430:LYS:HA	45:SK:433:GLU:CD	2.38	0.44
46:SL:311:LEU:N	46:SL:370:ASN:O	2.51	0.44
46:SL:379:LYS:HD3	46:SL:419:VAL:HG11	1.99	0.44
45:SM:115:VAL:HG23	45:SM:153:LEU:HD23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TB:241:ARG:HG2	46:TB:242:PHE:CD2	2.53	0.44
46:TB:253:LEU:O	46:TB:257:LEU:HB2	2.17	0.44
46:TB:342:VAL:HG13	46:TB:345:ILE:HG22	1.99	0.44
45:TC:88:HIS:CD2	45:UC:280:LYS:NZ	2.86	0.44
46:TF:69:GLU:HA	46:TF:70:PRO:HD3	1.86	0.44
46:TF:287:PRO:HA	46:TF:290:THR:HG22	2.00	0.44
45:TK:171:ILE:HG23	45:TK:204:LEU:O	2.17	0.44
46:TL:174:LYS:HZ1	46:TL:380:ARG:NH1	2.15	0.44
46:UB:5:VAL:HA	46:UB:62:ARG:HG3	1.98	0.44
46:UB:375:GLN:HG3	46:UB:423:GLN:NE2	2.33	0.44
45:UG:145:THR:OG1	47:UG:501:GTP:O1B	2.36	0.44
45:UM:319:TYR:CD2	45:UM:323:VAL:HG21	2.53	0.44
46:UN:326:VAL:O	46:UN:330:MET:HG2	2.18	0.44
45:VC:174:SER:HB2	45:VC:177:VAL:O	2.18	0.44
45:VE:220:GLU:OE2	45:VE:221:ARG:HB2	2.18	0.44
46:VF:184:ASN:OD1	46:VF:185:ALA:N	2.51	0.44
45:VG:209:ILE:HD12	45:VG:209:ILE:H	1.83	0.44
46:VH:97:ALA:HB3	46:VH:143:THR:HG22	2.00	0.44
46:VH:286:VAL:HG23	46:VH:287:PRO:HD3	2.00	0.44
45:VI:177:VAL:HG23	45:VI:207:GLU:OE1	2.18	0.44
45:VK:230:LEU:HD11	45:VK:272:TYR:HD2	1.83	0.44
46:VL:284:LEU:HA	46:VL:288:GLU:OE2	2.17	0.44
46:VN:49:VAL:HG12	46:VN:50:TYR:CD2	2.53	0.44
46:VN:207:LEU:HD12	46:VN:228:LEU:HD11	2.00	0.44
46:WB:113:ILE:HD12	46:WB:150:LEU:CD1	2.47	0.44
46:WB:391:ARG:HD2	46:WB:391:ARG:HA	1.78	0.44
45:WC:342:GLN:N	45:WC:342:GLN:OE1	2.50	0.44
46:WD:39:ASP:OD1	46:WD:40:SER:N	2.50	0.44
46:WF:189:VAL:HG13	46:WF:415:MET:HE3	2.00	0.44
45:WG:33:ASP:OD1	45:WG:35:GLN:NE2	2.41	0.44
45:WG:205:ASP:OD1	45:WG:303:ALA:HA	2.18	0.44
45:WG:231:ILE:O	45:WG:235:ILE:HG12	2.18	0.44
45:WI:10:GLY:O	45:WI:14:ILE:HG12	2.17	0.44
45:WI:88:HIS:HB3	45:WI:91:GLN:HG2	2.00	0.44
46:WJ:153:SER:HB2	46:WJ:191:GLN:HE21	1.82	0.44
11:OS:277:GLN:NE2	46:WB:122:LYS:HE3	2.33	0.43
19:1J:48:TYR:OH	46:HD:41:ASP:OD1	2.35	0.43
21:1L:43:GLN:OE1	46:BJ:357:PRO:HG2	2.17	0.43
21:1L:283:ARG:NH1	46:BH:357:PRO:O	2.49	0.43
15:1X:45:GLN:NE2	45:ME:282:TYR:CG	2.86	0.43
23:2O:199:LYS:NZ	45:UK:56:THR:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:2P:439:HIS:HD2	45:TK:282:TYR:CE2	2.36	0.43
33:4F:8:TYR:CZ	45:GI:84:ARG:HB2	2.53	0.43
35:4S:98:TYR:HE2	35:4S:127:LEU:HD22	1.82	0.43
35:4S:192:MET:HG2	46:AD:424:GLN:HG3	2.00	0.43
36:5B:146:VAL:HG13	36:5B:147:TYR:CD1	2.51	0.43
37:5E:135:LYS:HG3	37:5E:136:LEU:HD22	2.00	0.43
39:6F:21:VAL:HG23	39:6F:23:ILE:HG22	2.00	0.43
10:6Q:76:LEU:HD23	10:6Q:77:VAL:N	2.33	0.43
34:6R:12:LEU:HB3	34:6R:13:PRO:CD	2.48	0.43
34:7R:107:PRO:HA	46:BD:360:GLY:HA3	1.99	0.43
34:7R:369:ILE:HD12	34:7R:370:PRO:HD2	1.99	0.43
43:8P:157:UNK:O	46:QH:276:ARG:NH2	2.50	0.43
46:AB:404:ASP:N	46:AB:404:ASP:OD1	2.51	0.43
46:AD:341:PHE:HD2	46:AD:348:ASN:HD21	1.66	0.43
45:AE:221:ARG:NE	46:AF:325:GLU:OE1	2.51	0.43
45:AE:304:LYS:HB2	45:AE:304:LYS:HE2	1.83	0.43
46:AH:21:TRP:CZ2	46:AH:63:ALA:HB2	2.53	0.43
46:AH:179:VAL:O	46:AH:388:MET:HE1	2.18	0.43
46:AH:213:ARG:HE	46:AH:213:ARG:HB2	1.68	0.43
46:AH:318:ARG:HD3	46:AH:358:PRO:HD3	2.00	0.43
45:AK:223:THR:HG23	45:AK:225:THR:H	1.83	0.43
45:AK:434:GLU:O	45:AK:437:ILE:HG12	2.18	0.43
46:AL:156:ARG:HH22	46:AL:197:ASP:CG	2.21	0.43
46:AN:208:TYR:HE2	46:AN:225:LEU:HD21	1.83	0.43
45:BA:60:LYS:NZ	45:BA:86:LEU:HA	2.33	0.43
45:BA:100:ALA:HB1	46:BB:252:LYS:HA	1.99	0.43
46:BD:3:GLU:CD	46:BD:127:CYS:HB2	2.39	0.43
46:BH:28:HIS:C	46:BH:43:GLN:HE21	2.21	0.43
45:BI:3:GLU:OE2	45:BI:130:THR:N	2.50	0.43
46:BJ:137:HIS:NE2	46:BJ:166:THR:OG1	2.49	0.43
45:BM:208:ALA:O	45:BM:212:ILE:HG12	2.18	0.43
45:CA:167:LEU:HD11	45:CA:252:ILE:HD11	1.99	0.43
45:CA:317:MET:N	45:CA:317:MET:SD	2.90	0.43
46:CD:252:LYS:HG2	45:CE:100:ALA:HA	2.00	0.43
45:CG:346:TRP:CG	46:CH:391:ARG:HG3	2.53	0.43
45:CI:301:MET:HE1	45:CI:307:PRO:HG3	2.00	0.43
45:DA:328:VAL:HG11	45:DA:353:VAL:HG21	1.99	0.43
46:DB:6:HIS:CE1	46:DB:8:GLN:HB3	2.53	0.43
46:DB:55:THR:HG23	46:EB:283:ALA:HA	2.00	0.43
46:DD:154:LYS:HA	46:DD:157:GLU:OE2	2.18	0.43
46:DD:220:PRO:HG2	45:DC:326:LYS:HE2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:294:PHE:HE1	46:DH:333:VAL:HG11	1.83	0.43
46:DJ:22:GLU:HG2	46:DJ:81:PHE:CD1	2.53	0.43
46:DJ:54:ALA:HA	46:EJ:283:ALA:HB2	2.00	0.43
46:EB:324:LYS:HD3	45:EC:222:PRO:CG	2.48	0.43
46:EF:148:GLY:O	46:EF:152:ILE:HG13	2.18	0.43
45:EG:164:LYS:HD2	45:EG:164:LYS:HA	1.79	0.43
45:EG:318:MET:HB2	45:EG:376:CYS:SG	2.58	0.43
46:EH:420:SER:O	46:EH:423:GLN:HG3	2.17	0.43
45:EI:332:ILE:HD12	45:EI:351:PHE:CD2	2.52	0.43
46:EJ:391:ARG:HD2	46:EJ:391:ARG:HA	1.79	0.43
46:EL:12:CYS:SG	46:EL:13:GLY:N	2.90	0.43
45:FA:98:ASP:O	46:FB:251:ARG:NH2	2.51	0.43
45:FA:119:LEU:HD11	45:FA:156:ARG:HG2	2.00	0.43
45:FA:434:GLU:O	45:FA:437:ILE:HG12	2.18	0.43
46:FF:65:LEU:HB3	46:FF:73:MET:HE1	2.00	0.43
45:FG:434:GLU:O	45:FG:437:ILE:HG22	2.18	0.43
46:FJ:173:PRO:HD2	46:FJ:174:LYS:NZ	2.33	0.43
45:FM:141:VAL:HG11	45:FM:172:TYR:CD1	2.53	0.43
45:GA:71:GLU:HA	45:GA:72:PRO:HD3	1.91	0.43
46:GF:16:ILE:HD12	46:GF:229:VAL:HG11	2.00	0.43
45:GG:326:LYS:HZ3	46:GJ:208:TYR:HB3	1.83	0.43
46:GN:140:GLY:HA2	46:GN:171:PRO:HG3	2.00	0.43
45:HA:104:ALA:HB1	45:HA:411:GLU:OE1	2.18	0.43
45:HA:183:GLU:N	45:HA:184:PRO:HD2	2.33	0.43
46:HF:238:CYS:SG	46:HF:239:CYS:N	2.90	0.43
45:HG:89:PRO:HD3	45:IG:280:LYS:HZ3	1.81	0.43
45:HG:91:GLN:HB3	45:HG:121:ARG:HH22	1.82	0.43
45:HG:339:ARG:HD3	45:HG:339:ARG:O	2.18	0.43
46:HH:69:GLU:CD	46:HH:71:GLY:H	2.21	0.43
46:HH:116:VAL:HA	46:HH:119:VAL:HG12	2.00	0.43
46:HH:399:THR:HA	46:HH:403:MET:O	2.18	0.43
45:HI:105:ARG:HG2	45:HI:411:GLU:OE2	2.18	0.43
45:HI:264:ARG:HG3	45:HI:264:ARG:NH1	2.33	0.43
46:HJ:239:CYS:SG	46:HJ:247:ASN:HA	2.58	0.43
45:HK:107:HIS:ND1	45:HK:107:HIS:O	2.51	0.43
46:HL:116:VAL:O	46:HL:120:VAL:HG12	2.17	0.43
45:IA:116:ASP:OD1	45:IA:117:LEU:N	2.48	0.43
45:IA:414:GLU:HG2	45:IA:417:GLU:HG2	2.00	0.43
45:IC:184:PRO:O	45:IC:188:ILE:HG12	2.18	0.43
45:IE:401:LYS:HB2	45:IE:401:LYS:HE3	1.66	0.43
45:IG:280:LYS:CE	45:IG:283:HIS:HB2	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IJ:28:HIS:C	46:IJ:43:GLN:HE21	2.22	0.43
46:IJ:280:GLN:HG2	46:IJ:281:TYR:CD2	2.53	0.43
45:IK:172:TYR:OH	45:IK:191:THR:HG22	2.18	0.43
45:IM:178:SER:OG	46:IN:347:ASN:OD1	2.31	0.43
45:IM:214:ARG:NE	45:IM:220:GLU:OE1	2.50	0.43
45:IM:241:SER:OG	45:IM:250:VAL:O	2.25	0.43
45:IM:387:VAL:HA	45:IM:390:ARG:HG2	2.00	0.43
46:IN:238:CYS:SG	46:IN:318:ARG:NH1	2.91	0.43
45:JA:223:THR:HG23	45:JA:225:THR:H	1.83	0.43
45:JC:76:ASP:O	45:JC:80:THR:HG23	2.18	0.43
45:JC:121:ARG:HA	45:JC:121:ARG:NE	2.32	0.43
45:JC:141:VAL:HG22	45:JC:187:SER:HA	2.00	0.43
45:JE:231:ILE:O	45:JE:235:ILE:HG12	2.17	0.43
46:JH:256:ASN:O	46:JH:312:THR:HG21	2.18	0.43
45:JI:175:PRO:HG3	45:JI:390:ARG:NH1	2.33	0.43
46:JJ:178:THR:HG22	46:JJ:180:VAL:H	1.83	0.43
46:JJ:294:PHE:HE2	46:JJ:333:VAL:HG11	1.83	0.43
45:JK:286:LEU:N	45:JK:290:GLU:OE2	2.51	0.43
46:JL:145:SER:HB2	46:JL:188:SER:OG	2.17	0.43
46:JN:53:GLU:N	46:JN:53:GLU:OE2	2.51	0.43
46:KB:105:HIS:CE1	46:KB:150:LEU:HD12	2.52	0.43
45:KC:69:ASP:OD2	45:KC:70:LEU:N	2.50	0.43
45:KC:322:ASP:OD1	45:KC:373:ARG:NH1	2.51	0.43
46:KD:88:ASP:OD2	46:KD:89:ASN:N	2.51	0.43
45:KE:36:MET:HG2	45:KE:61:HIS:HE1	1.83	0.43
45:KE:145:THR:HG22	47:KE:501:GTP:PG	2.58	0.43
45:KE:296:PHE:HE2	45:KE:335:ILE:HG21	1.82	0.43
46:KF:169:VAL:HG23	46:KF:169:VAL:O	2.18	0.43
46:KF:362:LYS:HE3	46:KF:362:LYS:HB3	1.68	0.43
46:KH:423:GLN:NE2	46:KH:423:GLN:O	2.51	0.43
46:KJ:392:LYS:HG2	46:KJ:395:LEU:HD12	1.99	0.43
45:KM:81:GLY:O	45:KM:84:ARG:HG3	2.18	0.43
45:KM:175:PRO:HG2	45:KM:176:GLN:OE1	2.18	0.43
45:KM:331:SER:O	45:KM:335:ILE:HG12	2.17	0.43
46:KN:182:PRO:HG2	46:KN:388:MET:HE2	1.99	0.43
45:LA:269:LEU:HB2	45:LA:301:MET:HE2	2.00	0.43
45:LA:338:LYS:HZ2	45:LA:339:ARG:N	2.16	0.43
46:LB:285:THR:HB	46:LB:287:PRO:HD2	2.00	0.43
46:LD:68:LEU:HD13	46:LD:147:MET:HE1	2.00	0.43
45:LG:36:MET:HB3	45:LG:40:LYS:HE2	2.00	0.43
45:LG:188:ILE:HG13	45:LG:189:LEU:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LH:163:ILE:HD13	46:LH:250:LEU:HG	2.00	0.43
45:LI:169:PHE:HB3	45:LI:204:LEU:HD11	2.00	0.43
46:LJ:257:LEU:HD23	46:LJ:266:PHE:CZ	2.53	0.43
46:LL:1:MET:O	46:LL:2:ARG:HG2	2.18	0.43
45:MA:398:MET:SD	46:MB:345:ILE:HD12	2.58	0.43
45:MC:21:TRP:CH2	45:MC:63:PRO:HB3	2.53	0.43
46:MD:132:GLY:HA3	46:MD:163:ILE:HG22	2.00	0.43
45:ME:55:GLU:HA	45:ME:55:GLU:OE1	2.18	0.43
45:MI:231:ILE:O	45:MI:235:ILE:HG12	2.18	0.43
46:ML:172:SER:HB3	46:ML:203:ASP:OD2	2.18	0.43
46:ML:293:MET:HE2	46:ML:367:PHE:CD1	2.52	0.43
45:MM:109:THR:HB	45:MM:110:ILE:HD12	2.00	0.43
45:NA:319:TYR:CD1	45:NA:375:VAL:HG22	2.53	0.43
46:NB:47:ILE:HG21	46:NB:59:TYR:CD1	2.52	0.43
46:ND:183:TYR:CE1	46:ND:388:MET:HB3	2.50	0.43
46:NF:310:TYR:CD1	46:NF:371:SER:HB2	2.53	0.43
45:NG:358:GLN:OE1	45:NG:359:PRO:HD2	2.17	0.43
46:NJ:54:ALA:HB3	46:NJ:58:ARG:HG2	2.00	0.43
45:NK:211:ASP:O	45:NK:214:ARG:HG3	2.18	0.43
45:NM:156:ARG:HA	45:NM:156:ARG:CZ	2.49	0.43
45:NM:276:ILE:HD13	45:NM:371:VAL:HG21	2.00	0.43
46:NN:285:THR:OG1	46:NN:287:PRO:HD2	2.18	0.43
45:OA:258:ASN:ND2	45:OA:352:LYS:HE3	2.33	0.43
45:OC:207:GLU:OE2	45:OC:304:LYS:HD2	2.18	0.43
45:OE:248:LEU:HD13	45:OE:355:ILE:HD13	2.00	0.43
46:OF:219:THR:O	46:OF:219:THR:HG23	2.18	0.43
45:OI:34:GLY:O	45:OI:60:LYS:HA	2.18	0.43
46:OJ:324:LYS:O	46:OJ:328:GLU:OE1	2.35	0.43
45:OK:285:GLN:HB2	45:OK:290:GLU:OE2	2.18	0.43
45:OK:331:SER:O	45:OK:335:ILE:HG12	2.18	0.43
46:OL:318:ARG:HG2	46:OL:357:PRO:HA	2.00	0.43
45:OM:390:ARG:HG3	45:OM:391:LEU:N	2.33	0.43
45:OM:394:LYS:O	45:OM:397:LEU:HG	2.18	0.43
45:PA:118:CYS:SG	45:PA:153:LEU:HD11	2.58	0.43
45:PA:267:PHE:HD2	45:PA:388:PHE:HZ	1.66	0.43
46:PB:63:ALA:O	46:PB:89:ASN:ND2	2.35	0.43
46:PD:294:PHE:CD2	46:PD:333:VAL:HG21	2.53	0.43
45:PE:224:TYR:HB2	46:PF:245:GLN:NE2	2.33	0.43
45:PE:427:ALA:HA	45:PE:430:LYS:HG2	2.00	0.43
46:PF:12:CYS:O	46:PF:16:ILE:HG12	2.18	0.43
46:PF:304:ASP:OD1	46:PF:306:ARG:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PF:344:TRP:HB3	46:PF:430:ALA:HB2	2.00	0.43
45:PG:434:GLU:O	45:PG:437:ILE:HG12	2.18	0.43
46:PH:380:ARG:O	46:PH:384:GLN:OE1	2.36	0.43
45:PI:55:GLU:HG3	45:PI:57:GLY:H	1.82	0.43
45:PI:152:LEU:O	45:PI:155:GLU:HG3	2.18	0.43
45:PK:98:ASP:OD1	45:PK:99:ALA:N	2.51	0.43
46:PL:375:GLN:HG3	46:PL:379:LYS:HZ1	1.83	0.43
45:PM:111:GLY:O	45:PM:115:VAL:HG13	2.17	0.43
45:QA:401:LYS:HB2	45:QA:401:LYS:HE3	1.73	0.43
46:QB:55:THR:HG23	46:RB:283:ALA:HA	2.00	0.43
45:QC:265:ILE:HG12	45:QC:432:TYR:CE1	2.52	0.43
45:QC:271:SER:OG	45:QC:301:MET:HG2	2.18	0.43
45:QI:171:ILE:HG22	45:QI:204:LEU:HB2	1.99	0.43
46:QJ:51:TYR:HB3	46:QJ:59:TYR:HD2	1.83	0.43
45:QK:31:GLN:HG2	45:QK:35:GLN:H	1.83	0.43
45:QK:261:PRO:HA	46:QL:394:PHE:HD1	1.83	0.43
46:QL:66:MET:HE2	46:QL:147:MET:HG2	2.00	0.43
46:RB:8:GLN:OE1	46:RB:17:GLY:HA3	2.18	0.43
45:RE:52:PHE:HZ	45:RE:239:THR:HG21	1.82	0.43
45:RE:97:GLU:OE1	45:RE:105:ARG:NH2	2.35	0.43
45:RE:298:PRO:HA	45:RE:301:MET:HG2	2.00	0.43
46:RN:91:VAL:HG21	46:RN:116:VAL:HB	2.00	0.43
45:SC:174:SER:HB2	45:SC:177:VAL:O	2.18	0.43
45:SC:229:ARG:HH12	45:SC:366:GLY:CA	2.24	0.43
45:SC:280:LYS:HA	45:SC:283:HIS:ND1	2.32	0.43
46:SD:266:PHE:CE1	46:SD:370:ASN:HB2	2.53	0.43
45:SE:414:GLU:CD	45:SE:416:GLY:H	2.22	0.43
46:SF:135:ILE:HG13	46:SF:152:ILE:HD11	2.00	0.43
45:SG:208:ALA:O	45:SG:212:ILE:HG12	2.18	0.43
46:SH:31:ASP:HB2	46:SH:32:PRO:HD2	2.00	0.43
46:SH:113:ILE:HG12	46:SH:117:LEU:HG	1.99	0.43
46:TB:64:ILE:HA	46:TB:89:ASN:HB3	2.00	0.43
45:TC:115:VAL:O	45:TC:119:LEU:HG	2.18	0.43
46:TF:165:GLU:OE2	46:TF:250:LEU:HD13	2.18	0.43
45:TG:402:ARG:NH2	45:TG:415:GLU:OE1	2.50	0.43
46:TH:11:GLN:O	46:TH:15:GLN:HG2	2.18	0.43
46:TH:322:SER:HB2	45:TI:222:PRO:O	2.17	0.43
46:TN:133:PHE:HB2	46:TN:164:MET:SD	2.57	0.43
45:UC:268:MET:HB2	45:UC:379:SER:O	2.17	0.43
45:UE:427:ALA:HA	45:UE:430:LYS:HG2	1.99	0.43
45:UI:386:GLU:O	45:UI:390:ARG:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UL:286:VAL:HG23	46:UL:287:PRO:HD3	1.99	0.43
45:VA:171:ILE:HG23	45:VA:204:LEU:O	2.18	0.43
45:VA:339:ARG:HG3	45:VA:340:THR:N	2.32	0.43
46:VB:380:ARG:NH1	46:VB:381:VAL:HG23	2.33	0.43
45:VC:261:PRO:HG3	46:VF:394:PHE:CZ	2.53	0.43
45:VC:320:ARG:HB2	45:VC:358:GLN:O	2.18	0.43
45:VE:152:LEU:O	45:VE:156:ARG:HG2	2.17	0.43
45:VE:319:TYR:CE2	45:VE:328:VAL:HG13	2.52	0.43
45:VG:223:THR:HB	46:VH:322:SER:CB	2.48	0.43
46:VJ:317:PHE:HB2	46:VJ:353:ILE:HD13	2.00	0.43
46:VN:262:ARG:HA	46:VN:262:ARG:NE	2.32	0.43
45:WA:18:ASN:O	45:WA:22:GLU:OE1	2.36	0.43
45:WA:276:ILE:HD11	45:WA:280:LYS:HG3	1.99	0.43
46:WF:145:SER:HB3	46:WF:188:SER:HB3	1.99	0.43
46:WF:308:GLY:HA2	46:WF:426:GLN:NE2	2.33	0.43
46:WF:310:TYR:CD1	46:WF:371:SER:HB2	2.53	0.43
46:WF:325:GLU:HA	46:WF:328:GLU:HG3	2.00	0.43
45:WG:319:TYR:CD2	45:WG:328:VAL:HG22	2.52	0.43
45:WI:404:PHE:CD1	46:WJ:259:PRO:HA	2.53	0.43
46:WJ:46:ARG:NE	46:WJ:46:ARG:HA	2.33	0.43
46:WJ:213:ARG:HA	46:WJ:216:LYS:NZ	2.32	0.43
46:WL:16:ILE:HD12	46:WL:229:VAL:HG11	2.00	0.43
46:WL:350:LYS:HD3	46:WL:351:SER:N	2.33	0.43
45:CE:8:HIS:CD2	45:CE:138:PHE:HD2	2.36	0.43
45:CE:60:LYS:NZ	45:CE:86:LEU:HA	2.33	0.43
45:DC:188:ILE:HG13	45:DC:425:LEU:HD11	2.00	0.43
1:0A:127:ASN:HD21	46:AB:279:GLN:HE22	1.65	0.43
13:0U:193:LYS:HE3	46:WB:79:GLY:HA3	2.00	0.43
4:1D:36:TYR:O	45:DG:84:ARG:NH2	2.50	0.43
4:1D:81:ARG:NH2	46:EF:357:PRO:HG2	2.30	0.43
8:1H:172:GLN:OE1	46:HJ:276:ARG:HG2	2.17	0.43
18:1I:79:GLY:HA2	46:JD:276:ARG:CD	2.49	0.43
24:1P:362:LYS:NZ	46:TB:357:PRO:HG2	2.33	0.43
16:2B:258:LYS:HG3	45:KK:279:GLU:HB3	2.00	0.43
5:2E:53:LYS:HE2	34:5R:382:TYR:HE1	1.83	0.43
31:2I:51:ALA:H	46:GH:306:ARG:NH1	2.15	0.43
25:2R:291:GLY:HA3	46:DH:276:ARG:HB2	1.99	0.43
14:2V:22:ARG:HH22	45:ME:422:ARG:HG3	1.82	0.43
30:3H:194:LYS:NZ	46:AH:39:ASP:OD2	2.52	0.43
27:4C:239:LYS:NZ	46:JN:38:GLY:O	2.33	0.43
15:4X:43:GLU:H	15:4X:43:GLU:CD	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5B:163:ALA:HB1	45:NG:279:GLU:O	2.18	0.43
36:5D:94:MET:H	45:KM:430:LYS:HZ2	1.63	0.43
10:5Q:88:THR:HG22	10:5Q:106:SER:HA	1.99	0.43
34:5R:149:GLN:HB3	34:5R:159:TYR:CD1	2.53	0.43
34:5R:278:TYR:HE2	34:5R:331:PRO:HG3	1.83	0.43
34:5R:284:THR:HB	34:5R:306:ARG:NH2	2.32	0.43
34:6R:583:GLN:NE2	34:6R:587:THR:OG1	2.52	0.43
34:7R:207:ASP:O	34:7R:210:GLU:HG3	2.18	0.43
45:AA:212:ILE:HD11	45:AA:300:ASN:HA	2.00	0.43
46:AB:3:GLU:HG3	46:AB:62:ARG:NH1	2.33	0.43
46:AB:183:TYR:O	46:AB:187:LEU:HD23	2.19	0.43
46:AD:201:VAL:HG22	46:AD:266:PHE:O	2.18	0.43
46:AF:86:ARG:HB2	46:AF:89:ASN:OD1	2.17	0.43
45:AG:240:ALA:O	45:AG:244:PHE:HB2	2.17	0.43
46:AJ:233:MET:O	46:AJ:236:VAL:HG12	2.17	0.43
46:AL:198:GLU:OE2	46:AL:254:ALA:HB2	2.19	0.43
46:AN:309:ARG:H	46:AN:426:GLN:HE22	1.66	0.43
45:BA:389:SER:O	45:BA:393:HIS:ND1	2.37	0.43
46:BD:309:ARG:NH2	46:BD:426:GLN:O	2.41	0.43
45:BE:22:GLU:O	45:BE:26:LEU:HD23	2.18	0.43
45:BE:399:TYR:OH	45:BE:415:GLU:OE2	2.36	0.43
45:BK:171:ILE:HG23	45:BK:204:LEU:O	2.18	0.43
46:BL:211:CYS:SG	46:BL:220:PRO:HB3	2.58	0.43
45:BM:147:SER:HB2	45:BM:190:SER:HB3	2.00	0.43
45:BM:177:VAL:HB	45:BM:207:GLU:OE2	2.19	0.43
45:BM:372:MET:SD	45:BM:372:MET:N	2.92	0.43
46:BN:213:ARG:NE	46:BN:297:LYS:HE3	2.32	0.43
45:CC:66:VAL:HG11	45:CC:122:ILE:HD11	2.00	0.43
45:CG:182:VAL:HG22	45:CG:185:TYR:HB2	2.00	0.43
46:CH:121:ARG:O	46:CH:125:GLU:OE1	2.36	0.43
45:CK:133:GLN:HB2	45:CK:252:ILE:HD11	1.99	0.43
45:CK:149:LEU:O	45:CK:153:LEU:HD23	2.18	0.43
45:CM:387:VAL:HG12	45:CM:390:ARG:NH1	2.33	0.43
46:DB:238:CYS:SG	46:DB:239:CYS:N	2.91	0.43
46:DB:334:GLN:HA	46:DB:341:PHE:CE2	2.53	0.43
45:DI:268:MET:HE1	45:DI:380:ASN:HB2	1.98	0.43
46:DJ:258:ILE:HG13	46:DJ:258:ILE:O	2.18	0.43
45:DK:75:ILE:O	45:DK:79:ARG:HG2	2.18	0.43
46:DL:73:MET:HB2	46:DL:90:PHE:CD1	2.53	0.43
46:DN:318:ARG:HH11	46:DN:358:PRO:HG3	1.82	0.43
46:EB:69:GLU:HA	46:EB:70:PRO:HD3	1.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:EB:212:PHE:HE2	46:EB:220:PRO:HG2	1.82	0.43
45:EE:69:ASP:OD2	45:EE:71:GLU:N	2.45	0.43
46:EL:321:MET:N	46:EL:321:MET:SD	2.91	0.43
46:EL:379:LYS:O	46:EL:383:GLU:OE1	2.37	0.43
46:EN:289:LEU:HD13	46:EN:365:VAL:HG23	2.00	0.43
45:FC:21:TRP:HZ2	45:FC:65:ALA:HB2	1.82	0.43
45:FC:90:GLU:OE2	45:FC:90:GLU:N	2.51	0.43
45:FC:331:SER:O	45:FC:335:ILE:HG12	2.17	0.43
46:FD:121:ARG:HD3	46:FD:121:ARG:C	2.39	0.43
45:FE:254:GLU:HG2	45:FE:352:LYS:HZ1	1.82	0.43
45:FE:296:PHE:CE2	45:FE:335:ILE:HG21	2.53	0.43
45:FG:371:VAL:HG12	45:FG:373:ARG:H	1.84	0.43
46:FH:287:PRO:HD3	46:FH:325:GLU:OE1	2.18	0.43
46:FL:65:LEU:HD22	46:FL:90:PHE:CE1	2.53	0.43
46:FL:214:THR:HG23	46:FL:215:LEU:HD22	2.00	0.43
46:FN:68:LEU:HD23	46:FN:97:ALA:HB2	1.99	0.43
46:FN:193:VAL:HG23	46:FN:265:PHE:HE1	1.82	0.43
45:GC:257:THR:HG22	46:GF:397:TRP:CZ3	2.53	0.43
45:GI:272:TYR:HD2	45:GI:275:ILE:HD11	1.83	0.43
45:GM:155:GLU:HG2	45:GM:197:HIS:CD2	2.53	0.43
46:GN:36:TYR:CE1	46:GN:44:LEU:HG	2.53	0.43
46:GN:64:ILE:HG13	46:GN:120:VAL:HG12	2.00	0.43
45:HA:241:SER:OG	45:HA:250:VAL:O	2.37	0.43
45:HC:317:MET:SD	45:HC:317:MET:N	2.91	0.43
46:HF:242:PHE:CD2	46:HF:356:ILE:HG21	2.54	0.43
46:HH:68:LEU:HB3	46:HH:96:GLY:HA2	1.99	0.43
46:HH:253:LEU:O	46:HH:257:LEU:HD23	2.17	0.43
46:HH:309:ARG:HH21	46:HH:342:VAL:HA	1.81	0.43
45:HK:239:THR:HG23	45:HK:243:ARG:HH21	1.83	0.43
45:HK:358:GLN:NE2	45:HK:359:PRO:O	2.51	0.43
45:HK:434:GLU:O	45:HK:437:ILE:HG12	2.18	0.43
45:HM:71:GLU:OE2	46:HN:2:ARG:NH2	2.52	0.43
45:IA:167:LEU:HD11	45:IA:252:ILE:HG23	1.99	0.43
45:IA:384:ILE:O	45:IA:387:VAL:HG22	2.18	0.43
46:IB:221:THR:O	46:IB:225:LEU:HG	2.18	0.43
46:IB:226:ASN:HA	46:IB:229:VAL:HG22	2.00	0.43
45:IC:271:SER:OG	45:IC:301:MET:SD	2.76	0.43
45:IC:284:GLU:HG2	45:IC:286:LEU:HD22	1.99	0.43
46:ID:386:THR:O	46:ID:390:ARG:HG2	2.18	0.43
45:IE:68:LEU:HD21	45:IE:118:CYS:SG	2.58	0.43
45:IK:69:ASP:HB3	45:IK:75:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:296:PHE:HE1	45:IM:317:MET:HE3	1.82	0.43
45:IM:296:PHE:CE1	45:IM:317:MET:HE3	2.53	0.43
46:IN:232:ALA:HB1	46:IN:268:ILE:HD12	2.00	0.43
45:JA:259:LEU:HD23	45:JA:314:ALA:HB1	1.99	0.43
46:JD:286:VAL:HG12	46:JD:329:GLN:HG3	1.99	0.43
46:JF:391:ARG:HA	46:JF:391:ARG:HD2	1.81	0.43
45:JG:244:PHE:CE2	45:JG:358:GLN:HG2	2.53	0.43
45:JG:259:LEU:HD21	45:JG:316:SER:HB2	1.99	0.43
46:JH:374:ILE:HD12	46:JH:374:ILE:H	1.83	0.43
45:JI:181:VAL:HG12	46:JJ:256:ASN:OD1	2.18	0.43
45:JK:272:TYR:HD1	45:JK:376:CYS:HB3	1.83	0.43
45:JM:19:ALA:O	45:JM:22:GLU:HG2	2.18	0.43
46:KB:150:LEU:O	46:KB:153:SER:OG	2.26	0.43
46:KB:258:ILE:HG12	46:KB:266:PHE:HZ	1.83	0.43
45:KE:386:GLU:O	45:KE:390:ARG:HG3	2.19	0.43
45:KI:5:ILE:HB	45:KI:135:PHE:CD1	2.53	0.43
45:KK:18:ASN:O	45:KK:22:GLU:HG2	2.18	0.43
46:KL:8:GLN:HE21	46:KL:65:LEU:CD2	2.31	0.43
46:LB:68:LEU:HD12	46:LB:97:ALA:HB2	2.01	0.43
46:LD:73:MET:HE1	46:LD:92:PHE:HB3	1.98	0.43
46:LD:275:SER:O	46:LD:279:GLN:HB2	2.18	0.43
45:LG:88:HIS:HB3	45:LG:91:GLN:HG2	2.01	0.43
45:LI:185:TYR:HE1	45:LI:398:MET:HB3	1.82	0.43
45:MA:174:SER:HB2	45:MA:177:VAL:O	2.17	0.43
46:MH:139:LEU:HD21	46:MH:168:SER:HB3	2.00	0.43
46:MJ:116:VAL:O	46:MJ:120:VAL:HG23	2.18	0.43
45:MK:210:TYR:CE1	45:MK:227:LEU:HD21	2.52	0.43
45:NA:234:VAL:O	45:NA:238:LEU:HD23	2.18	0.43
45:NA:430:LYS:O	45:NA:434:GLU:OE1	2.36	0.43
46:NB:268:ILE:HD12	46:NB:368:VAL:HG22	2.00	0.43
46:ND:6:HIS:NE2	46:ND:8:GLN:HB3	2.33	0.43
45:NE:21:TRP:CZ2	45:NE:65:ALA:HB2	2.53	0.43
47:NE:501:GTP:O1G	46:NF:252:LYS:NZ	2.35	0.43
45:NG:284:GLU:CD	45:NG:286:LEU:H	2.22	0.43
46:NL:270:PHE:HD1	46:NL:366:THR:HG22	1.82	0.43
46:NL:342:VAL:HG13	46:NL:345:ILE:HG22	2.01	0.43
45:NM:268:MET:SD	45:NM:380:ASN:HB2	2.58	0.43
45:OA:172:TYR:CE2	45:OA:203:MET:HG3	2.53	0.43
46:OB:25:SER:OG	46:OB:30:ILE:O	2.36	0.43
45:OC:86:LEU:HD23	45:OC:87:PHE:CE2	2.53	0.43
45:OC:138:PHE:HE1	45:OC:169:PHE:CD2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OC:345:ASP:OD1	45:OC:346:TRP:N	2.50	0.43
45:OC:420:GLU:HA	45:OC:423:GLU:HG3	2.00	0.43
46:OD:83:GLN:O	46:PD:281:TYR:OH	2.36	0.43
46:OJ:178:THR:HG22	46:OJ:180:VAL:H	1.82	0.43
45:OM:60:LYS:HD3	45:PM:283:HIS:CG	2.53	0.43
45:PA:88:HIS:ND1	45:PA:90:GLU:HG2	2.33	0.43
46:PB:273:LEU:N	46:PB:292:GLN:HE22	2.07	0.43
45:PC:181:VAL:HG12	46:PD:347:ASN:O	2.18	0.43
46:PD:309:ARG:NH1	46:PD:343:GLU:OE2	2.49	0.43
46:PH:105:HIS:CE1	46:PH:150:LEU:HD12	2.53	0.43
46:PJ:19:LYS:NZ	46:PJ:223:GLY:O	2.51	0.43
46:PJ:73:MET:CE	46:PJ:92:PHE:HB3	2.48	0.43
45:PK:352:LYS:HD3	45:PK:353:VAL:N	2.33	0.43
46:PN:133:PHE:HB2	46:PN:164:MET:SD	2.57	0.43
46:QB:68:LEU:HD13	46:QB:143:THR:OG1	2.18	0.43
45:QC:11:GLN:HB2	45:QC:74:VAL:HG21	2.00	0.43
45:QE:26:LEU:HD11	45:QE:364:PRO:HD2	2.00	0.43
46:QF:324:LYS:HD3	45:QG:222:PRO:HD2	2.00	0.43
45:QG:324:VAL:HG12	45:QG:326:LYS:HG2	1.99	0.43
45:QG:340:THR:HG23	45:QG:341:ILE:HG12	2.00	0.43
47:QG:501:GTP:O2A	47:QG:501:GTP:H8	2.02	0.43
45:QI:19:ALA:HA	45:QI:22:GLU:OE1	2.17	0.43
45:QI:121:ARG:HA	45:QI:121:ARG:NH1	2.33	0.43
46:QJ:42:LEU:HD13	46:QJ:45:GLU:HG2	2.00	0.43
46:QJ:141:GLY:HA3	49:QJ:501:GDP:O3A	2.18	0.43
45:QM:326:LYS:HD3	46:QN:212:PHE:CZ	2.46	0.43
46:QN:97:ALA:HB3	46:QN:143:THR:HB	1.99	0.43
46:QN:148:GLY:O	46:QN:152:ILE:HG12	2.18	0.43
46:RB:268:ILE:HG22	46:RB:368:VAL:HG13	2.00	0.43
45:RC:296:PHE:HD2	45:RC:335:ILE:HD12	1.83	0.43
45:RE:226:ASN:O	45:RE:230:LEU:HD23	2.18	0.43
45:RE:287:SER:O	45:RE:291:ILE:HG23	2.17	0.43
45:RE:384:ILE:O	45:RE:387:VAL:HG22	2.18	0.43
45:RG:8:HIS:CD2	45:RG:138:PHE:HD2	2.36	0.43
45:RG:52:PHE:HZ	45:RG:239:THR:HG21	1.83	0.43
45:RI:5:ILE:HB	45:RI:135:PHE:CD1	2.53	0.43
46:RJ:139:LEU:HD13	46:RJ:168:SER:HB3	2.00	0.43
46:RL:175:VAL:HG13	46:RL:175:VAL:O	2.18	0.43
46:SB:322:SER:OG	46:SB:325:GLU:OE2	2.32	0.43
46:SB:420:SER:O	46:SB:423:GLN:HG3	2.18	0.43
45:SC:226:ASN:O	45:SC:230:LEU:HD23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:68:LEU:HB2	46:SD:96:GLY:HA2	1.98	0.43
45:SE:138:PHE:CD1	45:SE:169:PHE:HB2	2.53	0.43
45:SE:265:ILE:HG22	45:SE:380:ASN:HD21	1.83	0.43
46:SF:101:TRP:HB2	46:SF:184:ASN:HB3	2.00	0.43
46:SF:165:GLU:HG2	46:SF:198:GLU:OE2	2.18	0.43
46:SJ:124:ALA:O	46:SJ:130:LEU:HD21	2.17	0.43
46:SJ:217:LEU:HD23	46:SJ:219:THR:H	1.83	0.43
46:SN:312:THR:HG22	46:SN:370:ASN:HB3	2.00	0.43
46:SN:406:MET:O	46:SN:410:GLU:HG3	2.17	0.43
45:TA:34:GLY:O	45:TA:60:LYS:HA	2.17	0.43
45:TA:141:VAL:HG11	45:TA:172:TYR:HD1	1.82	0.43
45:TC:176:GLN:NE2	45:TC:207:GLU:OE2	2.51	0.43
46:TD:270:PHE:HD2	46:TD:273:LEU:HD21	1.82	0.43
45:TE:336:LYS:NZ	45:TE:349:THR:HA	2.33	0.43
45:TE:434:GLU:O	45:TE:437:ILE:HG22	2.18	0.43
45:TG:338:LYS:HD2	45:TG:339:ARG:H	1.83	0.43
46:TH:183:TYR:HA	46:TH:385:PHE:CE1	2.52	0.43
45:TI:120:ASP:HB3	45:TI:124:LYS:HZ1	1.82	0.43
45:TI:268:MET:N	45:TI:268:MET:SD	2.92	0.43
45:TI:318:MET:O	45:TI:375:VAL:HA	2.18	0.43
46:TJ:221:THR:HG23	46:TJ:224:ASP:H	1.82	0.43
45:TK:88:HIS:CE1	45:TK:90:GLU:HG3	2.53	0.43
46:TL:238:CYS:HA	46:TL:241:ARG:NE	2.33	0.43
46:TL:391:ARG:HA	46:TL:391:ARG:HD2	1.78	0.43
46:UB:164:MET:HB3	46:UB:197:ASP:H	1.82	0.43
45:UC:21:TRP:CZ2	45:UC:65:ALA:HB2	2.53	0.43
46:UD:72:THR:HG23	46:UD:73:MET:SD	2.58	0.43
45:UE:280:LYS:HD2	45:UE:283:HIS:HB3	1.99	0.43
46:UF:6:HIS:NE2	46:UF:8:GLN:OE1	2.51	0.43
46:UF:320:ARG:NH2	46:UF:321:MET:HA	2.33	0.43
45:UG:288:VAL:HA	45:UG:291:ILE:HG12	2.00	0.43
46:UJ:6:HIS:O	46:UJ:63:ALA:HA	2.18	0.43
46:UJ:143:THR:HB	49:UJ:501:GDP:O1B	2.18	0.43
45:UK:68:LEU:HD11	45:UK:118:CYS:SG	2.59	0.43
45:UK:231:ILE:O	45:UK:235:ILE:HG12	2.18	0.43
45:VA:288:VAL:HG11	45:VA:323:VAL:HG23	2.00	0.43
46:VB:306:ARG:HD2	46:VB:340:TYR:CD1	2.54	0.43
46:VD:200:MET:HG3	46:VD:266:PHE:HB2	1.99	0.43
45:VE:100:ALA:O	46:VF:255:VAL:HG11	2.19	0.43
46:VF:392:LYS:C	46:VF:395:LEU:HD23	2.38	0.43
45:VG:10:GLY:O	45:VG:14:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VG:345:ASP:OD1	45:VG:439:THR:HG22	2.18	0.43
45:VK:60:LYS:HA	45:VK:60:LYS:HD2	1.81	0.43
45:VK:79:ARG:HH21	45:VK:92:LEU:HB2	1.83	0.43
45:VM:184:PRO:O	45:VM:188:ILE:HG12	2.18	0.43
46:VN:151:LEU:O	46:VN:155:VAL:HG23	2.19	0.43
45:WA:206:ASN:OD1	45:WA:207:GLU:N	2.51	0.43
45:WA:260:VAL:HG13	45:WA:265:ILE:O	2.17	0.43
46:WB:100:ASN:HD22	46:WB:103:LYS:HB2	1.83	0.43
45:WC:68:LEU:HD21	45:WC:118:CYS:HB2	1.99	0.43
46:WD:67:ASP:O	46:WD:92:PHE:HA	2.18	0.43
46:WD:201:VAL:HG23	46:WD:301:CYS:SG	2.58	0.43
45:WE:427:ALA:O	45:WE:430:LYS:HG2	2.18	0.43
45:WG:268:MET:CE	45:WG:378:ILE:HG22	2.48	0.43
45:WI:68:LEU:HD23	45:WI:149:LEU:HD21	2.00	0.43
46:WJ:150:LEU:O	46:WJ:154:LYS:HG2	2.18	0.43
45:WM:107:HIS:HA	45:WM:152:LEU:HD11	2.00	0.43
45:WM:121:ARG:HA	45:WM:124:LYS:HZ2	1.83	0.43
46:WN:99:ASN:HA	46:WN:142:GLY:H	1.83	0.43
46:WN:391:ARG:HD2	46:WN:391:ARG:HA	1.77	0.43
45:DC:133:GLN:HB3	45:DC:252:ILE:HG21	2.00	0.43
3:0C:38:PRO:HG3	45:EI:279:GLU:OE1	2.18	0.43
4:0D:35:LYS:HZ3	45:DC:84:ARG:NE	2.16	0.43
17:1F:20:TYR:CE2	46:HL:40:SER:HB3	2.53	0.43
26:1W:165:ILE:HA	46:LD:279:GLN:HE22	1.83	0.43
1:2A:27:SER:OG	34:5R:65:LEU:HD11	2.18	0.43
28:2F:93:GLU:OE1	45:HE:298:PRO:HG2	2.18	0.43
23:2O:185:ARG:NH2	46:VL:277:GLY:HA2	2.33	0.43
25:2R:312:GLN:OE1	46:CH:358:PRO:HB2	2.18	0.43
14:2V:133:TYR:CD2	46:LH:421:GLU:HA	2.53	0.43
11:3S:152:SER:HA	46:WN:95:THR:HG21	2.00	0.43
10:4Q:6:PHE:HE2	45:WI:120:ASP:HB2	1.81	0.43
34:4R:527:ASP:OD2	34:4R:529:GLU:HG3	2.18	0.43
35:4S:157:ILE:O	35:4S:161:THR:HG23	2.17	0.43
15:4X:108:LYS:HE2	15:4X:108:LYS:HA	2.01	0.43
37:5E:72:ASP:O	37:5E:104:MET:N	2.51	0.43
34:5R:282:ASP:OD1	34:5R:284:THR:OG1	2.26	0.43
40:6G:230:TYR:OH	45:UE:119:LEU:HG	2.18	0.43
34:6R:152:LYS:HG2	34:6R:160:TYR:CE1	2.53	0.43
34:6R:527:ASP:OD2	34:6R:530:TYR:N	2.43	0.43
44:8R:230:TYR:HD2	45:PE:282:TYR:HB2	1.83	0.43
45:AA:265:ILE:HG22	45:AA:380:ASN:HD21	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AF:162:ARG:HA	46:AF:162:ARG:NE	2.33	0.43
46:AH:16:ILE:HD13	46:AH:226:ASN:OD1	2.18	0.43
46:AJ:207:LEU:HB3	46:AJ:225:LEU:HD22	1.99	0.43
45:BA:3:GLU:HG3	45:BA:129:CYS:SG	2.58	0.43
45:BA:372:MET:SD	45:BA:372:MET:N	2.92	0.43
46:BB:1:MET:O	46:BB:2:ARG:HG2	2.18	0.43
46:BF:116:VAL:O	46:BF:120:VAL:HG23	2.18	0.43
45:BM:72:PRO:HA	45:BM:75:ILE:HD13	1.99	0.43
45:BM:356:ASN:OD1	45:BM:357:TYR:N	2.51	0.43
46:BN:16:ILE:HD12	46:BN:229:VAL:HG11	2.00	0.43
46:BN:173:PRO:HG3	46:BN:384:GLN:OE1	2.18	0.43
46:BN:324:LYS:HA	46:BN:327:ASP:OD2	2.19	0.43
46:CB:304:ASP:OD2	46:CB:306:ARG:HG2	2.18	0.43
46:CF:330:MET:HE2	46:CF:349:ILE:CG2	2.47	0.43
45:CG:207:GLU:O	45:CG:210:TYR:HB2	2.18	0.43
45:CK:51:THR:O	45:CK:64:ARG:NH1	2.51	0.43
45:CK:210:TYR:CD1	45:CK:227:LEU:HD21	2.53	0.43
45:CK:288:VAL:HA	45:CK:291:ILE:HG22	2.00	0.43
46:CN:167:PHE:CE2	46:CN:233:MET:HG2	2.53	0.43
46:DD:100:ASN:OD1	46:DD:103:LYS:HG2	2.18	0.43
45:DG:223:THR:HG23	45:DG:225:THR:H	1.84	0.43
46:DH:69:GLU:CD	46:DH:71:GLY:H	2.21	0.43
45:DI:289:ALA:O	45:DI:292:THR:HG22	2.18	0.43
45:DI:335:ILE:HA	45:DI:338:LYS:HZ3	1.82	0.43
45:DI:356:ASN:OD1	45:DI:357:TYR:N	2.52	0.43
46:DL:39:ASP:OD1	46:DL:40:SER:N	2.52	0.43
45:DM:36:MET:HG3	45:DM:38:SER:H	1.84	0.43
45:DM:229:ARG:NH1	45:DM:363:VAL:HG11	2.33	0.43
46:EB:208:TYR:HA	46:EB:211:CYS:SG	2.58	0.43
46:EB:324:LYS:HD3	45:EC:222:PRO:HG2	2.00	0.43
46:EF:154:LYS:HA	46:EF:157:GLU:HG3	2.00	0.43
45:EG:413:MET:HG2	45:EG:417:GLU:HG3	2.00	0.43
46:EJ:65:LEU:HD12	46:EJ:90:PHE:CE1	2.53	0.43
46:FD:20:PHE:O	46:FD:24:ILE:HG12	2.17	0.43
46:FF:153:SER:O	46:FF:157:GLU:HG2	2.18	0.43
46:FH:139:LEU:HD12	46:FH:188:SER:OG	2.18	0.43
45:FK:164:LYS:HD2	45:FK:164:LYS:HA	1.83	0.43
46:FL:274:THR:HG21	46:FL:282:ARG:HG3	2.00	0.43
45:GA:121:ARG:HA	45:GA:121:ARG:HD3	1.75	0.43
45:GA:377:MET:HE2	45:GA:379:SER:HB3	1.99	0.43
45:GC:224:TYR:CZ	46:GD:246:LEU:HD11	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GD:112:LEU:O	46:GD:112:LEU:HD23	2.18	0.43
46:GD:343:GLU:N	46:GD:343:GLU:OE2	2.51	0.43
45:GE:324:VAL:HB	45:GE:327:ASP:OD2	2.17	0.43
45:GG:174:SER:HB2	45:GG:177:VAL:O	2.19	0.43
45:GG:387:VAL:HA	45:GG:390:ARG:NH1	2.33	0.43
45:GM:288:VAL:HA	45:GM:291:ILE:HG12	1.99	0.43
46:GN:122:LYS:C	46:GN:122:LYS:HD2	2.39	0.43
46:GN:375:GLN:NE2	46:GN:419:VAL:O	2.52	0.43
45:HE:261:PRO:HA	46:HH:394:PHE:CD1	2.53	0.43
46:HH:165:GLU:OE2	46:HH:250:LEU:HD23	2.18	0.43
45:HK:257:THR:HG22	46:HN:397:TRP:CE2	2.54	0.43
46:HL:378:PHE:HA	46:HL:381:VAL:HG22	2.00	0.43
45:HM:404:PHE:CE2	46:HN:259:PRO:HA	2.53	0.43
46:HN:379:LYS:O	46:HN:379:LYS:NZ	2.42	0.43
45:IA:271:SER:HB2	45:IA:377:MET:HB3	1.99	0.43
46:ID:290:THR:HG21	46:ID:329:GLN:HG2	1.99	0.43
45:IG:39:ASP:OD2	45:IG:40:LYS:HG2	2.18	0.43
45:IG:210:TYR:HH	46:IH:323:THR:HG1	1.64	0.43
46:IH:253:LEU:HD12	46:IH:257:LEU:HD11	2.00	0.43
45:II:287:SER:HB3	45:II:290:GLU:HG2	1.99	0.43
46:IN:45:GLU:HG3	46:IN:46:ARG:HD2	2.00	0.43
46:IN:156:ARG:O	46:IN:156:ARG:HD3	2.18	0.43
46:IN:209:ASP:OD1	46:IN:213:ARG:NE	2.45	0.43
46:JB:391:ARG:HA	46:JB:391:ARG:HD2	1.77	0.43
45:JE:222:PRO:HD2	46:JF:324:LYS:CE	2.48	0.43
46:JF:148:GLY:O	46:JF:152:ILE:HG13	2.18	0.43
45:JK:53:PHE:HB3	45:JK:61:HIS:HB3	2.00	0.43
45:JK:214:ARG:HD2	45:JK:215:ARG:N	2.32	0.43
45:JK:393:HIS:O	45:JK:397:LEU:HD23	2.18	0.43
45:KC:395:PHE:HZ	45:KC:418:PHE:HB3	1.83	0.43
46:KD:257:LEU:HD21	46:KD:314:SER:OG	2.18	0.43
45:KE:151:SER:O	45:KE:155:GLU:HG3	2.18	0.43
45:KG:42:ILE:HG13	45:KG:43:GLY:N	2.34	0.43
46:KH:257:LEU:HD21	46:KH:314:SER:HB2	2.00	0.43
46:LB:50:TYR:HE1	46:LB:134:GLN:HE22	1.64	0.43
46:LD:67:ASP:O	46:LD:92:PHE:HA	2.18	0.43
45:LE:205:ASP:OD2	45:LE:205:ASP:N	2.52	0.43
45:LG:26:LEU:HD11	45:LG:364:PRO:HD2	2.00	0.43
45:LI:181:VAL:HG12	46:LJ:347:ASN:O	2.17	0.43
46:LJ:105:HIS:O	46:LJ:105:HIS:ND1	2.51	0.43
45:LM:141:VAL:HG12	45:LM:171:ILE:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LM:316:SER:HB3	45:LM:378:ILE:HB	2.01	0.43
45:ME:324:VAL:HG12	45:ME:326:LYS:HG2	2.00	0.43
45:ME:430:LYS:HA	45:ME:430:LYS:HE2	2.00	0.43
46:MF:387:ALA:HA	46:MF:390:ARG:NH1	2.32	0.43
45:MG:265:ILE:HG22	45:MG:380:ASN:HD21	1.82	0.43
46:MJ:417:ASP:O	46:MJ:421:GLU:HG3	2.19	0.43
45:MK:224:TYR:HE2	46:ML:246:LEU:HD11	1.82	0.43
46:ML:383:GLU:HG3	46:ML:384:GLN:N	2.32	0.43
46:MN:67:ASP:OD1	46:MN:69:GLU:N	2.31	0.43
45:NA:31:GLN:HB2	45:NA:33:ASP:OD1	2.18	0.43
45:NA:345:ASP:N	45:NA:345:ASP:OD1	2.51	0.43
45:NA:414:GLU:HB3	45:NA:417:GLU:OE1	2.18	0.43
46:NB:405:GLU:O	46:NB:409:THR:HG23	2.18	0.43
45:NI:276:ILE:HG21	45:NI:283:HIS:CE1	2.53	0.43
46:NJ:285:THR:OG1	46:NJ:288:GLU:OE1	2.31	0.43
45:NK:10:GLY:O	45:NK:14:ILE:HG12	2.19	0.43
45:NK:209:ILE:HG12	45:NK:302:MET:SD	2.58	0.43
46:NL:407:GLU:O	46:NL:410:GLU:HG3	2.19	0.43
45:NM:62:VAL:HG21	45:NM:88:HIS:HD2	1.84	0.43
46:NN:154:LYS:HA	46:NN:157:GLU:HG3	2.00	0.43
45:OA:279:GLU:HG2	45:OA:280:LYS:HG2	2.00	0.43
45:OC:101:ASN:HA	45:OC:144:GLY:H	1.83	0.43
45:OC:107:HIS:O	45:OC:107:HIS:ND1	2.51	0.43
45:OC:434:GLU:O	45:OC:437:ILE:HG22	2.19	0.43
46:OD:175:VAL:HG11	46:OD:208:TYR:HE2	1.82	0.43
45:OG:22:GLU:OE1	45:OG:83:TYR:OH	2.16	0.43
45:OG:396:ASP:OD1	45:OG:422:ARG:NH1	2.51	0.43
45:OK:154:LEU:HD12	45:OK:194:LEU:HD22	1.99	0.43
46:OL:117:LEU:HA	46:OL:120:VAL:HG12	1.99	0.43
45:OM:3:GLU:OE2	45:OM:129:CYS:HB3	2.18	0.43
45:OM:224:TYR:HB2	46:ON:245:GLN:NE2	2.34	0.43
45:PA:136:LEU:HD12	45:PA:169:PHE:HE2	1.82	0.43
46:PD:290:THR:HA	46:PD:293:MET:HG3	1.99	0.43
45:PE:32:PRO:HB3	45:PE:83:TYR:CE1	2.54	0.43
45:PE:107:HIS:ND1	45:PE:107:HIS:O	2.51	0.43
46:PF:7:ILE:HG12	46:PF:64:ILE:HD13	1.99	0.43
46:PF:21:TRP:CZ3	46:PF:61:PRO:HB3	2.53	0.43
46:PF:44:LEU:HD23	46:PF:47:ILE:HG21	1.99	0.43
46:PF:391:ARG:HD2	46:PF:391:ARG:HA	1.74	0.43
45:PG:73:THR:HG21	46:PH:247:ASN:HD21	1.83	0.43
46:PH:41:ASP:OD1	46:PH:42:LEU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:390:ARG:NE	46:PH:390:ARG:HA	2.34	0.43
45:PM:179:THR:OG1	47:PM:501:GTP:O3'	2.28	0.43
45:PM:212:ILE:HD11	45:PM:300:ASN:HA	2.00	0.43
46:PN:27:GLU:O	46:PN:43:GLN:NE2	2.37	0.43
45:QA:328:VAL:HG11	45:QA:353:VAL:HG21	2.00	0.43
46:QB:114:ASP:N	46:QB:114:ASP:OD2	2.52	0.43
46:QB:379:LYS:O	46:QB:383:GLU:HG2	2.18	0.43
45:QC:174:SER:HB2	45:QC:177:VAL:O	2.18	0.43
45:QC:296:PHE:CE1	45:QC:377:MET:HG3	2.52	0.43
46:QD:238:CYS:SG	46:QD:239:CYS:N	2.91	0.43
45:QE:268:MET:CG	45:QE:380:ASN:HB3	2.48	0.43
46:QF:105:HIS:CD2	46:QF:150:LEU:HB2	2.53	0.43
45:QG:88:HIS:CD2	45:RG:280:LYS:HZ1	2.37	0.43
46:QH:66:MET:SD	46:QH:116:VAL:HG21	2.58	0.43
46:QJ:238:CYS:SG	46:QJ:239:CYS:N	2.92	0.43
45:QK:427:ALA:HA	45:QK:430:LYS:HG2	2.00	0.43
45:QM:68:LEU:HD21	45:QM:149:LEU:HD12	2.00	0.43
46:QN:9:GLY:HA2	46:QN:66:MET:O	2.19	0.43
45:RA:293:ASN:O	45:RA:297:GLU:HG3	2.18	0.43
46:RD:91:VAL:HG21	46:RD:116:VAL:HB	2.00	0.43
46:RD:380:ARG:HA	46:RD:383:GLU:HG3	2.00	0.43
46:RF:86:ARG:HH21	46:SF:282:ARG:HB2	1.82	0.43
46:RH:164:MET:H	46:RH:197:ASP:HB2	1.82	0.43
45:RK:287:SER:O	45:RK:291:ILE:HG23	2.17	0.43
46:RL:317:PHE:HB2	46:RL:353:ILE:HD13	1.99	0.43
46:RL:336:LYS:HD2	46:RL:337:ASN:OD1	2.17	0.43
46:SD:309:ARG:HD3	46:SD:342:VAL:HB	2.00	0.43
45:SE:9:VAL:CG2	45:SE:139:ASN:HB3	2.48	0.43
45:SE:232:ALA:HA	45:SE:235:ILE:HG22	2.00	0.43
46:SH:289:LEU:HD11	46:SH:363:MET:HB3	2.01	0.43
45:SI:54:SER:HB3	45:SI:64:ARG:NH2	2.33	0.43
45:SK:223:THR:HG23	45:SK:225:THR:H	1.83	0.43
45:SK:270:SER:HB3	45:SK:378:ILE:HG12	2.00	0.43
45:SK:276:ILE:HG12	45:SK:281:ALA:HA	2.00	0.43
45:SK:429:GLU:O	45:SK:432:TYR:HB2	2.17	0.43
45:SM:229:ARG:HH12	45:SM:366:GLY:CA	2.26	0.43
46:TB:305:PRO:HB2	46:TB:310:TYR:HE1	1.83	0.43
45:TC:242:LEU:HD11	45:TC:252:ILE:HG23	1.99	0.43
45:TE:411:GLU:N	45:TE:411:GLU:OE1	2.51	0.43
45:TG:287:SER:O	45:TG:291:ILE:HG12	2.19	0.43
46:TL:2:ARG:HB3	46:TL:131:GLN:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:102:ALA:HB2	46:TL:398:TYR:HD1	1.83	0.43
45:TM:141:VAL:HG12	45:TM:171:ILE:O	2.19	0.43
45:TM:233:GLN:OE1	45:TM:360:PRO:HB3	2.18	0.43
46:TN:293:MET:CE	46:TN:365:VAL:HG11	2.48	0.43
46:UB:273:LEU:H	46:UB:292:GLN:NE2	2.16	0.43
46:UB:312:THR:HG22	46:UB:370:ASN:HB3	1.99	0.43
46:UD:54:ALA:HB3	46:UD:58:ARG:HG2	2.00	0.43
45:UE:105:ARG:HG3	45:UE:411:GLU:OE1	2.19	0.43
45:UE:207:GLU:HG3	45:UE:304:LYS:HG3	2.00	0.43
45:UE:352:LYS:HZ1	46:UF:179:VAL:HG13	1.83	0.43
45:UG:261:PRO:HA	46:UH:394:PHE:CD1	2.52	0.43
46:UH:154:LYS:O	46:UH:157:GLU:HG3	2.18	0.43
46:UJ:6:HIS:CD2	46:UJ:134:GLN:HE21	2.37	0.43
45:UK:258:ASN:CB	45:UK:352:LYS:HD2	2.40	0.43
46:UL:325:GLU:HG2	45:UM:221:ARG:HH11	1.83	0.43
45:VA:254:GLU:O	45:VA:255:PHE:HD1	2.00	0.43
45:VA:331:SER:O	45:VA:335:ILE:HG12	2.19	0.43
45:VA:434:GLU:O	45:VA:437:ILE:HG12	2.17	0.43
46:VB:391:ARG:HD2	46:VB:391:ARG:HA	1.78	0.43
45:VE:164:LYS:HD3	45:VE:164:LYS:HA	1.75	0.43
45:VI:434:GLU:O	45:VI:437:ILE:HG12	2.18	0.43
45:VK:60:LYS:HZ1	45:VK:86:LEU:HD12	1.82	0.43
45:VK:123:ARG:NH2	45:VK:127:ASP:OD1	2.48	0.43
46:VL:129:CYS:SG	46:VL:131:GLN:NE2	2.89	0.43
45:VM:19:ALA:HA	45:VM:22:GLU:OE1	2.18	0.43
45:VM:141:VAL:HG11	45:VM:172:TYR:CD1	2.53	0.43
45:VM:268:MET:HB2	45:VM:379:SER:O	2.18	0.43
46:VN:211:CYS:O	46:VN:215:LEU:HB2	2.18	0.43
46:WF:175:VAL:O	46:WF:175:VAL:HG23	2.18	0.43
46:WJ:121:ARG:HG2	46:WJ:125:GLU:OE1	2.19	0.43
45:WK:8:HIS:HB2	45:WK:67:PHE:CD2	2.52	0.43
46:WL:154:LYS:HA	46:WL:154:LYS:HD3	1.84	0.43
46:WN:94:GLN:N	46:WN:94:GLN:OE1	2.51	0.43
1:1A:138:TRP:CZ2	45:AE:81:GLY:HA2	2.53	0.43
4:1D:81:ARG:NH2	46:EF:361:LEU:O	2.50	0.43
9:1N:8:ARG:CZ	45:JG:285:GLN:HE22	2.31	0.43
24:1P:222:LEU:HD12	45:TG:282:TYR:CE1	2.52	0.43
30:2H:208:ASN:ND2	45:AC:26:LEU:HD21	2.24	0.43
23:2O:427:LEU:HB2	45:VA:282:TYR:CE2	2.52	0.43
12:2T:132:PRO:HD3	45:MG:123:ARG:NH1	2.30	0.43
30:3H:195:ASP:OD2	46:AH:359:LYS:NZ	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:3Q:37:ILE:HD11	35:5S:208:GLN:CD	2.39	0.43
25:3R:283:ARG:HH21	45:CK:46:ASP:H	1.64	0.43
36:5B:63:THR:O	36:5B:64:LYS:HE2	2.17	0.43
36:5B:142:GLN:N	46:NH:320:ARG:HH12	2.17	0.43
37:5F:123:ARG:HG3	45:OE:372:MET:HE1	2.00	0.43
37:5F:133:PRO:HB2	37:5F:136:LEU:HG	2.00	0.43
37:5H:123:ARG:NH2	45:OM:371:VAL:O	2.34	0.43
39:6F:26:TRP:O	39:6F:30:ARG:HG3	2.18	0.43
40:6G:164:ASN:HD21	40:6G:172:LEU:HD21	1.83	0.43
34:7R:434:ASN:OD1	46:FB:280:GLN:NE2	2.50	0.43
46:AB:4:ILE:HG13	46:AB:132:GLY:O	2.18	0.43
46:AB:201:VAL:HG12	46:AB:266:PHE:O	2.18	0.43
45:AC:107:HIS:ND1	45:AC:107:HIS:O	2.51	0.43
46:AD:314:SER:HA	46:AD:350:LYS:HB2	2.00	0.43
45:AE:20:CYS:HB2	45:AE:24:PHE:HE2	1.83	0.43
45:AE:212:ILE:HD11	45:AE:300:ASN:HA	1.99	0.43
45:AE:377:MET:SD	45:AE:379:SER:HB3	2.58	0.43
45:AE:387:VAL:HG12	45:AE:390:ARG:HH12	1.83	0.43
46:AF:167:PHE:CE1	46:AF:200:MET:HE2	2.54	0.43
45:AG:387:VAL:HG12	45:AG:390:ARG:CZ	2.48	0.43
45:AI:17:GLY:HA2	45:AI:20:CYS:SG	2.58	0.43
46:AL:12:CYS:SG	46:AL:138:SER:HB3	2.59	0.43
45:AM:388:PHE:HB2	45:AM:429:GLU:OE2	2.19	0.43
45:BA:179:THR:HG22	46:BB:350:LYS:NZ	2.34	0.43
45:BC:54:SER:HB3	45:BC:64:ARG:NE	2.34	0.43
46:BD:164:MET:SD	46:BD:166:THR:HG23	2.57	0.43
45:BE:404:PHE:CE1	46:BF:259:PRO:HA	2.53	0.43
46:BF:94:GLN:N	46:BF:94:GLN:OE1	2.51	0.43
45:BG:222:PRO:HG2	46:BH:324:LYS:HE2	2.00	0.43
46:BH:178:THR:HB	46:BH:181:GLU:OE2	2.18	0.43
45:BI:7:ILE:HG21	45:BI:153:LEU:HD21	2.01	0.43
46:BL:295:ASP:OD1	46:BL:297:LYS:N	2.46	0.43
46:BN:183:TYR:CZ	46:BN:388:MET:HB3	2.53	0.43
46:CB:248:SER:HA	46:CB:252:LYS:HD2	2.00	0.43
46:CB:317:PHE:HE1	46:CB:326:VAL:HG13	1.84	0.43
45:CG:155:GLU:HG3	45:CG:156:ARG:HH12	1.83	0.43
46:CJ:209:ASP:O	46:CJ:213:ARG:HG2	2.18	0.43
45:CK:18:ASN:O	45:CK:22:GLU:OE1	2.35	0.43
45:CM:171:ILE:HG23	45:CM:204:LEU:O	2.18	0.43
46:CN:5:VAL:HA	46:CN:62:ARG:HG3	2.00	0.43
46:DD:390:ARG:HA	46:DD:390:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DG:214:ARG:HH21	45:DG:215:ARG:HG3	1.83	0.43
45:DG:288:VAL:HA	45:DG:291:ILE:HG12	2.00	0.43
45:DI:319:TYR:CE1	45:DI:375:VAL:HB	2.54	0.43
46:DJ:62:ARG:HB2	46:DJ:123:GLU:OE1	2.18	0.43
46:DJ:391:ARG:HA	46:DJ:391:ARG:HD2	1.81	0.43
46:DJ:404:ASP:OD1	46:DJ:407:GLU:HG3	2.19	0.43
46:DL:62:ARG:HB2	46:DL:123:GLU:OE2	2.19	0.43
46:DL:148:GLY:O	46:DL:152:ILE:HG13	2.18	0.43
46:EB:68:LEU:HD12	46:EB:93:GLY:HA3	2.00	0.43
45:EE:91:GLN:NE2	45:EE:125:LEU:HD21	2.26	0.43
46:EF:178:THR:HG22	46:EF:180:VAL:H	1.83	0.43
45:EG:206:ASN:OD1	47:EG:501:GTP:N2	2.42	0.43
45:EG:268:MET:HG3	45:EG:380:ASN:HB2	1.99	0.43
46:EH:1:MET:SD	45:EI:72:PRO:HG2	2.58	0.43
46:EH:105:HIS:HD2	46:EH:146:GLY:O	2.01	0.43
46:EJ:337:ASN:OD1	46:EJ:340:TYR:HB2	2.18	0.43
45:FA:121:ARG:NH1	45:FA:121:ARG:HA	2.32	0.43
45:FC:263:PRO:HD3	46:FF:396:HIS:CD2	2.52	0.43
45:FC:399:TYR:O	45:FC:402:ARG:NH1	2.51	0.43
46:FD:35:THR:HB	46:FD:37:HIS:HE1	1.84	0.43
46:FD:221:THR:HG23	46:FD:224:ASP:H	1.84	0.43
46:FF:1:MET:O	46:FF:2:ARG:HG2	2.19	0.43
46:FF:22:GLU:HG2	46:FF:81:PHE:CD1	2.53	0.43
46:FF:190:HIS:CD2	46:FF:414:ASN:HD22	2.36	0.43
45:FG:21:TRP:CZ2	45:FG:65:ALA:HB2	2.53	0.43
45:FG:174:SER:HB2	45:FG:177:VAL:O	2.17	0.43
45:FK:21:TRP:CZ2	45:FK:65:ALA:HB2	2.53	0.43
46:FL:192:LEU:HD21	46:FL:199:CYS:HB2	1.99	0.43
45:GA:336:LYS:HD3	45:GA:351:PHE:CE1	2.53	0.43
45:GA:407:TRP:CH2	46:GB:258:ILE:HB	2.52	0.43
46:GB:113:ILE:HD11	46:GB:151:LEU:HB2	2.00	0.43
45:GE:287:SER:HB3	45:GE:290:GLU:OE1	2.19	0.43
45:GE:324:VAL:O	45:GE:327:ASP:HB2	2.19	0.43
46:GF:293:MET:CE	46:GF:367:PHE:HB2	2.48	0.43
46:GH:157:GLU:OE2	46:GH:157:GLU:HA	2.18	0.43
45:GI:98:ASP:OD1	45:GI:99:ALA:N	2.52	0.43
45:GK:233:GLN:HG3	45:GK:368:LEU:HD21	2.00	0.43
45:GM:331:SER:O	45:GM:335:ILE:HG12	2.19	0.43
46:GN:4:ILE:HG13	46:GN:132:GLY:O	2.18	0.43
45:HA:258:ASN:CG	45:HA:352:LYS:HE3	2.39	0.43
46:HB:28:HIS:C	46:HB:43:GLN:HE21	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HC:89:PRO:HD3	45:IC:283:HIS:ND1	2.34	0.43
45:HE:346:TRP:CD1	46:HH:391:ARG:HG3	2.54	0.43
46:HF:3:GLU:HG3	46:HF:62:ARG:NH1	2.33	0.43
46:HF:314:SER:HA	46:HF:350:LYS:HB3	1.99	0.43
46:HH:213:ARG:NH2	46:HH:297:LYS:HB3	2.31	0.43
46:HL:306:ARG:HB2	46:HL:340:TYR:CE2	2.53	0.43
45:IA:328:VAL:O	45:IA:332:ILE:HG12	2.19	0.43
46:IB:3:GLU:H	46:IB:3:GLU:CD	2.22	0.43
46:IB:105:HIS:CE1	46:IB:150:LEU:HD12	2.53	0.43
46:IB:114:ASP:O	46:IB:117:LEU:HG	2.18	0.43
46:IB:292:GLN:HA	46:IB:295:ASP:OD2	2.18	0.43
45:IC:116:ASP:OD1	45:IC:117:LEU:N	2.51	0.43
45:IC:150:GLY:O	45:IC:154:LEU:HD23	2.19	0.43
46:ID:350:LYS:HD3	46:ID:351:SER:N	2.34	0.43
45:IE:297:GLU:HG2	45:IE:298:PRO:HD2	2.00	0.43
45:II:1:MET:N	45:II:47:ASP:OD2	2.51	0.43
46:IJ:164:MET:N	46:IJ:164:MET:SD	2.92	0.43
45:IK:98:ASP:OD2	45:IK:99:ALA:N	2.50	0.43
46:IN:48:ASN:O	46:IN:62:ARG:NH1	2.50	0.43
46:IN:359:LYS:HA	46:IN:359:LYS:HD2	1.79	0.43
46:JB:36:TYR:OH	46:JB:40:SER:O	2.34	0.43
46:JB:318:ARG:HE	46:JB:358:PRO:HG3	1.83	0.43
45:JG:56:THR:HG23	45:JG:58:ALA:H	1.83	0.43
46:JH:269:GLY:HA3	46:JH:299:MET:HE2	2.01	0.43
45:JI:393:HIS:O	45:JI:397:LEU:HD23	2.18	0.43
45:JM:422:ARG:NH1	45:JM:422:ARG:O	2.52	0.43
46:JN:420:SER:O	46:JN:423:GLN:HG3	2.18	0.43
45:KA:60:LYS:HD3	45:LA:282:TYR:CE1	2.49	0.43
45:KC:177:VAL:HG21	46:KD:327:ASP:HB3	2.00	0.43
46:KF:169:VAL:HG12	46:KF:202:ILE:HG23	2.01	0.43
45:KI:223:THR:HG23	45:KI:225:THR:H	1.82	0.43
46:KJ:324:LYS:O	46:KJ:327:ASP:N	2.51	0.43
45:KK:306:ASP:OD2	45:NK:282:TYR:OH	2.23	0.43
46:KN:248:SER:HA	46:KN:252:LYS:HD2	1.99	0.43
45:LA:260:VAL:HG23	45:LA:265:ILE:O	2.18	0.43
46:LD:238:CYS:SG	46:LD:318:ARG:NE	2.91	0.43
45:LE:46:ASP:HB2	45:LE:49:PHE:HE1	1.83	0.43
46:LH:286:VAL:HG23	46:LH:287:PRO:HD3	2.00	0.43
46:LL:67:ASP:O	46:LL:92:PHE:HA	2.18	0.43
46:LL:74:ASP:OD1	46:LL:77:ARG:NH2	2.51	0.43
46:LL:313:ALA:HB1	46:LL:367:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LN:238:CYS:SG	46:LN:239:CYS:N	2.92	0.43
46:MB:151:LEU:O	46:MB:155:VAL:HG12	2.19	0.43
46:MD:31:ASP:HB2	46:MD:32:PRO:HD2	1.99	0.43
45:ME:85:GLN:HA	45:ME:85:GLN:OE1	2.18	0.43
45:ME:175:PRO:HG2	45:ME:176:GLN:OE1	2.19	0.43
46:MF:99:ASN:HA	46:MF:142:GLY:H	1.84	0.43
45:MG:96:LYS:HB3	46:MH:1:MET:HE3	1.98	0.43
45:MI:107:HIS:ND1	45:MI:107:HIS:O	2.52	0.43
45:MI:392:ASP:OD1	45:MI:422:ARG:NE	2.49	0.43
46:MJ:254:ALA:O	46:MJ:258:ILE:HG12	2.17	0.43
45:MK:195:LEU:HD21	45:MK:264:ARG:HD2	2.01	0.43
46:ML:21:TRP:CH2	46:ML:61:PRO:HB3	2.53	0.43
46:ML:407:GLU:HA	46:ML:410:GLU:CD	2.38	0.43
46:MN:10:GLY:O	46:MN:14:ASN:ND2	2.51	0.43
45:NA:72:PRO:HG2	46:NB:1:MET:HE2	1.99	0.43
45:NA:75:ILE:HD12	45:NA:75:ILE:H	1.84	0.43
46:NB:4:ILE:HG22	46:NB:132:GLY:N	2.33	0.43
45:NC:222:PRO:HG2	46:ND:324:LYS:HD3	2.00	0.43
46:ND:10:GLY:N	46:ND:67:ASP:OD1	2.42	0.43
46:ND:372:THR:HB	46:ND:426:GLN:NE2	2.28	0.43
45:NE:176:GLN:OE1	45:NE:176:GLN:N	2.52	0.43
45:NG:105:ARG:HG2	45:NG:110:ILE:HG12	2.00	0.43
45:NG:175:PRO:HG2	45:NG:304:LYS:NZ	2.34	0.43
45:NG:326:LYS:HA	46:NJ:208:TYR:HE2	1.83	0.43
45:NG:328:VAL:O	45:NG:332:ILE:HG12	2.18	0.43
46:NH:31:ASP:CG	46:NH:35:THR:HB	2.39	0.43
45:NK:220:GLU:O	46:NL:324:LYS:HE3	2.18	0.43
45:NK:221:ARG:HA	46:NL:324:LYS:NZ	2.33	0.43
45:NK:222:PRO:HD2	46:NL:324:LYS:HD3	1.99	0.43
46:NN:31:ASP:OD1	46:NN:34:GLY:N	2.51	0.43
46:NN:130:LEU:HD11	46:NN:133:PHE:CE1	2.54	0.43
45:OA:286:LEU:HA	45:OA:290:GLU:OE1	2.18	0.43
45:OC:398:MET:HE1	46:OD:345:ILE:HA	2.00	0.43
46:OD:155:VAL:HA	46:OD:158:GLU:OE2	2.18	0.43
46:OD:221:THR:HG23	46:OD:224:ASP:H	1.83	0.43
45:OE:175:PRO:HA	45:OE:390:ARG:NH1	2.34	0.43
46:OF:417:ASP:O	46:OF:421:GLU:HG3	2.18	0.43
46:OH:111:GLU:OE1	46:OH:111:GLU:N	2.45	0.43
45:OI:138:PHE:HE1	45:OI:169:PHE:CD2	2.36	0.43
45:OI:229:ARG:NH1	45:OI:363:VAL:HG11	2.33	0.43
45:OK:56:THR:HG23	45:OK:58:ALA:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OK:287:SER:N	45:OK:290:GLU:OE2	2.38	0.43
46:OL:201:VAL:HG23	46:OL:301:CYS:SG	2.58	0.43
45:OM:24:PHE:O	45:OM:27:GLU:HG2	2.18	0.43
46:ON:203:ASP:OD2	46:ON:302:ALA:N	2.37	0.43
45:PA:427:ALA:HA	45:PA:430:LYS:HG2	2.01	0.43
46:PB:45:GLU:HG3	46:PB:46:ARG:HG2	2.00	0.43
45:PC:181:VAL:HG22	46:PD:256:ASN:OD1	2.19	0.43
45:PG:76:ASP:OD2	46:PH:46:ARG:NH2	2.51	0.43
45:PG:209:ILE:HD11	45:PG:302:MET:HB3	1.99	0.43
46:PH:322:SER:O	46:PH:325:GLU:HG2	2.19	0.43
45:PI:434:GLU:O	45:PI:437:ILE:HG12	2.18	0.43
45:PM:122:ILE:HG21	45:PM:157:LEU:HD21	2.00	0.43
45:QA:171:ILE:HG23	45:QA:204:LEU:O	2.19	0.43
45:QA:217:LEU:HG	45:QA:219:ILE:HG13	2.01	0.43
45:QE:346:TRP:CD1	46:QF:391:ARG:HG3	2.53	0.43
45:QG:71:GLU:OE2	45:QG:73:THR:OG1	2.29	0.43
45:QG:87:PHE:HB3	45:QG:92:LEU:HD21	2.00	0.43
45:QG:259:LEU:HD12	45:QG:268:MET:HE3	2.01	0.43
46:QH:391:ARG:HD2	46:QH:391:ARG:HA	1.83	0.43
45:QI:14:ILE:HD13	45:QI:67:PHE:HB3	2.00	0.43
45:QI:76:ASP:HA	45:QI:79:ARG:HG2	1.99	0.43
45:QI:372:MET:HG2	45:QI:373:ARG:HG3	2.00	0.43
45:QK:319:TYR:CE2	45:QK:375:VAL:HB	2.53	0.43
45:RA:53:PHE:CE2	45:RA:63:PRO:HG3	2.53	0.43
46:RB:46:ARG:NH2	46:RB:243:PRO:HD3	2.33	0.43
46:RB:186:THR:HA	46:RB:189:VAL:HG22	1.99	0.43
45:RE:424:ASP:O	45:RE:428:LEU:HD23	2.18	0.43
45:RG:352:LYS:NZ	46:RH:178:THR:HA	2.33	0.43
46:RH:156:ARG:HH21	46:RH:164:MET:HG2	1.83	0.43
46:RJ:268:ILE:HG13	46:RJ:300:MET:HE2	2.00	0.43
46:RJ:392:LYS:HG3	46:RJ:395:LEU:HD22	2.01	0.43
45:RK:69:ASP:OD1	45:RK:70:LEU:N	2.50	0.43
46:RL:36:TYR:CZ	46:RL:44:LEU:HD21	2.53	0.43
46:RL:288:GLU:OE2	46:RL:291:GLN:NE2	2.52	0.43
46:RL:327:ASP:HA	46:RL:330:MET:HG2	2.01	0.43
46:SB:313:ALA:HB3	46:SB:349:ILE:HG13	2.01	0.43
45:SC:223:THR:HG23	45:SC:225:THR:H	1.82	0.43
45:SE:292:THR:HG21	45:SE:331:SER:HB2	2.00	0.43
45:SI:260:VAL:HB	46:SJ:397:TRP:HZ2	1.82	0.43
46:SJ:6:HIS:HD2	46:SJ:8:GLN:HG2	1.82	0.43
46:SJ:377:MET:HA	46:SJ:380:ARG:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:274:PRO:HG3	45:SK:286:LEU:HD12	2.00	0.43
46:SL:262:ARG:HH21	46:SL:418:LEU:HD22	1.83	0.43
45:SM:14:ILE:HG21	45:SM:74:VAL:HG11	1.99	0.43
45:TA:171:ILE:HG23	45:TA:204:LEU:O	2.18	0.43
46:TB:201:VAL:HG23	46:TB:301:CYS:SG	2.58	0.43
45:TC:16:VAL:HG12	45:TC:228:ASN:ND2	2.33	0.43
45:TC:430:LYS:HA	45:TC:433:GLU:HG2	2.00	0.43
45:TE:235:ILE:O	45:TE:238:LEU:HG	2.18	0.43
46:TF:52:ASN:OD1	46:TF:62:ARG:NH2	2.51	0.43
46:TF:316:LEU:HG	46:TF:352:SER:OG	2.18	0.43
46:TH:282:ARG:NE	46:TH:288:GLU:OE1	2.51	0.43
46:TH:380:ARG:O	46:TH:383:GLU:HG3	2.18	0.43
46:TL:294:PHE:CD2	46:TL:333:VAL:HG11	2.53	0.43
45:UC:150:GLY:O	45:UC:154:LEU:HD23	2.18	0.43
46:UD:109:GLY:HA3	46:UD:147:MET:CE	2.47	0.43
46:UD:322:SER:H	45:UE:221:ARG:CZ	2.31	0.43
45:UE:329:ASN:O	45:UE:332:ILE:HG22	2.18	0.43
45:UG:258:ASN:HB2	45:UG:259:LEU:HD12	1.99	0.43
46:UH:287:PRO:HG3	46:UH:329:GLN:NE2	2.33	0.43
46:UH:325:GLU:HA	46:UH:328:GLU:HG2	2.01	0.43
46:UL:48:ASN:HA	46:UL:51:TYR:O	2.18	0.43
46:UN:121:ARG:O	46:UN:125:GLU:OE1	2.35	0.43
46:VF:232:ALA:HB1	46:VF:268:ILE:HD12	2.00	0.43
45:VG:226:ASN:ND2	45:VG:367:ASP:OD2	2.51	0.43
46:VH:44:LEU:HD22	46:VH:47:ILE:HD13	1.99	0.43
45:VK:115:VAL:HG22	45:VK:119:LEU:HD23	1.99	0.43
45:WC:119:LEU:HD21	45:WC:156:ARG:HB2	1.99	0.43
45:WC:227:LEU:O	45:WC:231:ILE:HG12	2.18	0.43
45:WC:335:ILE:HA	45:WC:338:LYS:HE2	2.01	0.43
45:WE:185:TYR:O	45:WE:189:LEU:HG	2.19	0.43
46:WF:47:ILE:HD12	46:WF:59:TYR:CE1	2.53	0.43
46:WF:150:LEU:HA	46:WF:191:GLN:HE22	1.84	0.43
46:WF:201:VAL:HG22	46:WF:266:PHE:O	2.17	0.43
46:WF:268:ILE:HG22	46:WF:368:VAL:HG22	2.00	0.43
45:WG:68:LEU:HD21	45:WG:118:CYS:HB2	1.99	0.43
46:WH:1:MET:N	46:WH:48:ASN:OD1	2.51	0.43
45:WI:208:ALA:HB2	45:WI:304:LYS:HG2	1.99	0.43
47:WK:501:GTP:O1G	46:WL:252:LYS:NZ	2.49	0.43
46:WL:261:PRO:HG2	46:WL:262:ARG:NH1	2.34	0.43
45:CE:426:ALA:O	45:CE:429:GLU:HG2	2.18	0.43
45:DC:39:ASP:N	45:DC:39:ASP:OD1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:0B:46:PHE:CE2	46:JH:77:ARG:HB2	2.51	0.43
2:0B:196:LYS:HE2	45:KI:282:TYR:CE2	2.53	0.43
10:0Q:53:ASN:ND2	45:AA:399:TYR:HD2	2.15	0.43
8:1H:297:THR:HA	45:GC:58:ALA:HB1	1.99	0.43
21:1L:427:ASN:ND2	45:CG:278:ALA:HB3	2.32	0.43
21:1L:872:MET:HB3	46:CB:362:LYS:NZ	2.34	0.43
34:4R:567:ASN:OD1	34:4R:568:ASP:N	2.52	0.43
35:4S:143:ILE:HG21	35:4S:182:TYR:CD1	2.54	0.43
37:5G:70:GLU:HA	37:5G:71:PRO:HD3	1.90	0.43
34:5R:317:HIS:O	46:CJ:227:HIS:HE1	2.00	0.43
34:7R:470:PHE:CD2	34:7R:471:LEU:HG	2.47	0.43
46:AB:232:ALA:HB1	46:AB:268:ILE:HD12	2.00	0.43
46:AB:310:TYR:HD2	46:AB:371:SER:HB2	1.84	0.43
46:AD:342:VAL:HG13	46:AD:345:ILE:HG22	2.00	0.43
45:AE:324:VAL:CG1	45:AE:326:LYS:HG2	2.48	0.43
45:AE:434:GLU:O	45:AE:437:ILE:HG12	2.18	0.43
46:AF:156:ARG:NH1	46:AF:197:ASP:OD1	2.50	0.43
45:AK:115:VAL:O	45:AK:119:LEU:HD23	2.19	0.43
45:AK:274:PRO:HG3	45:AK:286:LEU:HD12	2.00	0.43
45:AM:164:LYS:HD3	45:AM:165:SER:H	1.84	0.43
45:AM:265:ILE:HG13	45:AM:265:ILE:O	2.18	0.43
46:AN:372:THR:HA	46:AN:422:TYR:HE1	1.82	0.43
46:BB:238:CYS:SG	46:BB:239:CYS:N	2.92	0.43
45:BC:370:LYS:HE2	45:BC:370:LYS:HB2	1.83	0.43
45:BE:3:GLU:HG3	45:BE:129:CYS:SG	2.59	0.43
45:BE:216:ASN:HB3	45:BE:275:ILE:O	2.18	0.43
46:BF:304:ASP:OD2	46:BF:306:ARG:HG2	2.19	0.43
45:BI:201:ALA:HB3	45:BI:267:PHE:CD1	2.53	0.43
45:BI:329:ASN:ND2	46:BL:175:VAL:HG12	2.30	0.43
45:CA:40:LYS:HD2	45:CA:40:LYS:HA	1.74	0.43
45:CA:212:ILE:HD13	45:CA:215:ARG:NH1	2.31	0.43
45:CA:280:LYS:HE3	45:CA:283:HIS:ND1	2.34	0.43
45:CC:296:PHE:HE2	45:CC:335:ILE:HG21	1.83	0.43
46:CD:390:ARG:HH21	46:CD:391:ARG:HD3	1.84	0.43
46:CD:417:ASP:O	46:CD:421:GLU:HG2	2.18	0.43
45:CG:101:ASN:HA	45:CG:144:GLY:H	1.83	0.43
45:CG:195:LEU:HD13	45:CG:428:LEU:HD12	1.99	0.43
46:CH:77:ARG:HD2	46:CH:77:ARG:O	2.18	0.43
45:CI:73:THR:OG1	45:CI:74:VAL:N	2.51	0.43
45:CK:66:VAL:HG11	45:CK:122:ILE:HD11	2.00	0.43
46:CL:345:ILE:O	46:CL:345:ILE:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CM:210:TYR:HE1	45:CM:227:LEU:HD11	1.82	0.43
45:DE:296:PHE:HD2	45:DE:341:ILE:HD13	1.83	0.43
46:DF:135:ILE:HB	46:DF:166:THR:HA	2.01	0.43
45:DG:14:ILE:HD12	45:DG:67:PHE:CD2	2.54	0.43
45:DG:326:LYS:HZ1	46:DH:219:THR:CA	2.32	0.43
45:DK:17:GLY:HA2	45:DK:20:CYS:SG	2.59	0.43
45:DK:259:LEU:HD23	45:DK:314:ALA:HB1	1.99	0.43
45:DK:268:MET:HE1	45:DK:378:ILE:HG22	2.00	0.43
45:DM:74:VAL:HG23	45:DM:75:ILE:HD12	2.00	0.43
45:EC:5:ILE:HD11	45:EC:125:LEU:HD13	2.00	0.43
46:EF:40:SER:OG	46:EF:43:GLN:HG3	2.18	0.43
46:EF:243:PRO:HB3	45:EG:77:GLU:OE2	2.18	0.43
46:EH:312:THR:HG22	46:EH:370:ASN:HB3	2.00	0.43
46:EL:8:GLN:HE21	46:EL:65:LEU:CG	2.31	0.43
45:EM:207:GLU:OE1	45:EM:207:GLU:N	2.49	0.43
45:FA:155:GLU:HA	45:FA:197:HIS:CE1	2.53	0.43
45:FA:185:TYR:HE2	45:FA:404:PHE:HB2	1.82	0.43
46:FB:65:LEU:HD22	46:FB:90:PHE:CE1	2.52	0.43
45:FE:417:GLU:HA	45:FE:420:GLU:OE1	2.18	0.43
46:FF:65:LEU:HB3	46:FF:73:MET:SD	2.58	0.43
45:FG:2:ARG:HD2	45:FG:242:LEU:O	2.19	0.43
45:FG:104:ALA:HB2	45:FG:413:MET:HE2	2.00	0.43
46:FL:288:GLU:O	46:FL:291:GLN:HG3	2.19	0.43
46:FN:60:VAL:HG11	46:FN:86:ARG:HH21	1.83	0.43
45:GC:52:PHE:CZ	45:GC:239:THR:HG21	2.53	0.43
45:GC:149:LEU:O	45:GC:153:LEU:HD23	2.18	0.43
45:GE:70:LEU:HD13	45:GE:110:ILE:HD12	2.00	0.43
45:GG:221:ARG:NH2	46:GH:320:ARG:HH12	2.16	0.43
45:GG:338:LYS:NZ	45:GG:340:THR:H	2.13	0.43
46:GH:391:ARG:HD2	46:GH:391:ARG:HA	1.73	0.43
45:GM:98:ASP:OD1	45:GM:99:ALA:N	2.51	0.43
45:HA:223:THR:HG23	45:HA:225:THR:H	1.83	0.43
46:HD:391:ARG:HA	46:HD:391:ARG:HD2	1.78	0.43
45:HE:253:THR:O	45:HE:257:THR:HG23	2.18	0.43
47:HE:501:GTP:O1G	46:HF:252:LYS:NZ	2.51	0.43
46:HH:391:ARG:HA	46:HH:391:ARG:HD2	1.80	0.43
46:HL:216:LYS:HB2	46:HL:216:LYS:HE3	1.87	0.43
45:HM:89:PRO:HD3	45:IM:280:LYS:HE2	2.01	0.43
46:HN:178:THR:HG22	46:HN:180:VAL:H	1.83	0.43
45:IA:195:LEU:HD21	45:IA:264:ARG:HE	1.82	0.43
46:ID:123:GLU:OE1	46:ID:123:GLU:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IG:5:ILE:HB	45:IG:135:PHE:CD1	2.53	0.43
45:IG:248:LEU:HD12	45:IG:355:ILE:HD12	1.98	0.43
45:II:329:ASN:HB3	46:IL:175:VAL:HG12	2.00	0.43
46:IJ:226:ASN:ND2	49:IJ:501:GDP:HN1	2.14	0.43
46:IN:304:ASP:OD2	46:IN:306:ARG:HG2	2.18	0.43
45:JA:89:PRO:HB2	45:KA:280:LYS:HE3	1.98	0.43
45:JE:68:LEU:HD11	45:JE:118:CYS:SG	2.58	0.43
46:JH:69:GLU:O	46:JH:73:MET:HE1	2.18	0.43
46:KB:174:LYS:NZ	46:KB:380:ARG:HH12	2.16	0.43
46:KB:382:ALA:HB2	46:KB:415:MET:CE	2.49	0.43
45:KC:276:ILE:HD11	45:KC:280:LYS:HG3	2.00	0.43
45:KE:414:GLU:CD	45:KE:416:GLY:H	2.21	0.43
46:KH:5:VAL:HA	46:KH:62:ARG:HG3	2.00	0.43
46:KJ:295:ASP:OD1	46:KJ:296:ALA:N	2.52	0.43
46:KL:9:GLY:HA3	46:KL:66:MET:HG3	2.00	0.43
46:KL:66:MET:HE1	46:KL:147:MET:HB3	2.01	0.43
46:KL:181:GLU:HG3	46:KL:182:PRO:HD3	2.01	0.43
45:KM:309:HIS:CD2	45:NM:282:TYR:HE1	2.37	0.43
45:LA:122:ILE:HG22	45:LA:123:ARG:HH21	1.82	0.43
45:LC:31:GLN:HG2	45:LC:35:GLN:O	2.17	0.43
45:LC:384:ILE:O	45:LC:387:VAL:HG22	2.19	0.43
46:LJ:172:SER:HB2	46:LJ:174:LYS:HZ3	1.84	0.43
45:LK:206:ASN:HB3	45:LK:210:TYR:HE2	1.80	0.43
45:LK:324:VAL:HG23	45:LK:327:ASP:H	1.83	0.43
45:LM:343:PHE:CZ	45:LM:351:PHE:HE1	2.36	0.43
46:LN:286:VAL:N	46:LN:287:PRO:HD2	2.34	0.43
45:MA:384:ILE:HD11	45:MA:432:TYR:OH	2.19	0.43
46:MB:164:MET:O	46:MB:197:ASP:HB2	2.18	0.43
46:MD:282:ARG:HH12	46:MD:292:GLN:NE2	2.17	0.43
45:ME:200:VAL:HG13	45:ME:268:MET:CE	2.48	0.43
45:ME:321:GLY:HA3	45:ME:372:MET:O	2.18	0.43
45:MG:115:VAL:HG21	45:MG:152:LEU:HD22	2.01	0.43
45:MG:345:ASP:OD2	45:MG:346:TRP:N	2.51	0.43
46:MH:386:THR:O	46:MH:390:ARG:HG3	2.18	0.43
46:MJ:42:LEU:HA	46:MJ:45:GLU:OE1	2.18	0.43
45:MK:11:GLN:HG3	45:MK:74:VAL:HG11	2.00	0.43
46:ML:210:ILE:O	46:ML:214:THR:OG1	2.25	0.43
45:NA:79:ARG:O	45:NA:84:ARG:HB3	2.18	0.43
45:NA:288:VAL:HA	45:NA:291:ILE:HG22	2.01	0.43
46:NB:45:GLU:OE1	46:NB:46:ARG:HG3	2.18	0.43
46:NB:376:GLU:OE1	46:NB:376:GLU:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NC:4:VAL:HB	45:NC:52:PHE:HE1	1.84	0.43
45:NE:185:TYR:HE1	45:NE:398:MET:HB3	1.83	0.43
46:NH:257:LEU:HA	46:NH:312:THR:HG21	1.99	0.43
46:NH:359:LYS:HE2	46:NH:359:LYS:HA	1.99	0.43
45:NK:222:PRO:HD2	46:NL:324:LYS:CE	2.48	0.43
46:NL:313:ALA:HB1	46:NL:367:PHE:HE1	1.83	0.43
45:NM:175:PRO:HD3	45:NM:205:ASP:OD1	2.18	0.43
46:OB:130:LEU:O	46:OB:162:ARG:NH2	2.51	0.43
45:OC:32:PRO:HB3	45:OC:83:TYR:CE1	2.54	0.43
46:OD:181:GLU:OE2	46:OD:181:GLU:HA	2.19	0.43
46:OD:200:MET:HE3	46:OD:266:PHE:C	2.39	0.43
46:OD:290:THR:HA	46:OD:293:MET:HG3	2.01	0.43
45:OE:167:LEU:HD13	45:OE:200:VAL:HB	2.00	0.43
46:OF:55:THR:HG23	46:PF:283:ALA:HA	2.01	0.43
45:OG:387:VAL:O	45:OG:391:LEU:HD23	2.19	0.43
46:OJ:188:SER:O	46:OJ:192:LEU:HD23	2.19	0.43
45:OM:205:ASP:OD1	45:OM:303:ALA:HA	2.17	0.43
46:ON:86:ARG:HA	46:PN:281:TYR:CD1	2.54	0.43
46:PB:91:VAL:HG21	46:PB:116:VAL:HB	2.00	0.43
45:PC:261:PRO:HA	46:PF:394:PHE:CD2	2.53	0.43
46:PD:209:ASP:CB	46:PD:213:ARG:HH22	2.31	0.43
45:PE:154:LEU:HD22	45:PE:166:LYS:HD3	2.01	0.43
46:PF:150:LEU:O	46:PF:154:LYS:HG2	2.18	0.43
45:PI:1:MET:SD	45:PI:2:ARG:HD3	2.59	0.43
45:PK:222:PRO:O	46:PL:322:SER:HB2	2.17	0.43
45:PK:334:THR:O	45:PK:338:LYS:HG2	2.18	0.43
46:PL:8:GLN:HG3	46:PL:14:ASN:HD22	1.83	0.43
46:PL:102:ALA:HA	46:PL:403:MET:CE	2.49	0.43
45:QA:434:GLU:O	45:QA:437:ILE:HG12	2.18	0.43
45:QC:64:ARG:HA	45:QC:125:LEU:HD11	2.00	0.43
45:QG:269:LEU:HD12	45:QG:303:ALA:HB3	2.00	0.43
45:QI:136:LEU:HD12	45:QI:169:PHE:CE2	2.53	0.43
45:QK:88:HIS:O	45:QK:91:GLN:HG3	2.18	0.43
45:QK:419:SER:O	45:QK:422:ARG:N	2.52	0.43
45:QM:85:GLN:H	45:QM:85:GLN:CD	2.22	0.43
45:QM:229:ARG:HH12	45:QM:363:VAL:HG21	1.84	0.43
46:RB:68:LEU:HD23	46:RB:97:ALA:HB2	2.01	0.43
46:RD:138:SER:HA	46:RD:169:VAL:HG23	2.01	0.43
46:RD:167:PHE:CE1	46:RD:200:MET:HB2	2.54	0.43
46:RF:167:PHE:CZ	46:RF:233:MET:HG3	2.54	0.43
45:RG:12:GLY:HA2	45:RG:15:GLN:NE2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RH:244:GLY:HA3	46:RH:354:CYS:HA	2.00	0.43
45:RI:223:THR:HG23	45:RI:225:THR:H	1.84	0.43
46:RJ:222:TYR:CD1	46:RJ:225:LEU:HD21	2.53	0.43
46:RJ:317:PHE:CD1	46:RJ:365:VAL:HG22	2.54	0.43
45:RK:10:GLY:O	45:RK:14:ILE:HG12	2.17	0.43
45:RK:263:PRO:HD3	46:RL:396:HIS:NE2	2.33	0.43
45:RM:326:LYS:HD3	46:RN:212:PHE:CZ	2.54	0.43
45:SA:268:MET:HB2	45:SA:379:SER:O	2.18	0.43
46:SB:266:PHE:HD1	46:SB:368:VAL:HG12	1.84	0.43
46:SD:408:PHE:O	46:SD:411:ALA:HB3	2.19	0.43
45:SE:324:VAL:HG23	45:SE:327:ASP:HB2	2.00	0.43
46:SH:164:MET:O	46:SH:197:ASP:HB2	2.18	0.43
46:SL:213:ARG:NH1	46:SL:297:LYS:HB3	2.33	0.43
46:SL:345:ILE:HG23	46:SL:348:ASN:HD22	1.84	0.43
46:TB:322:SER:O	45:TC:221:ARG:NH1	2.51	0.43
45:TC:120:ASP:O	45:TC:124:LYS:HG2	2.17	0.43
46:TD:178:THR:HG22	46:TD:180:VAL:H	1.84	0.43
46:TD:319:GLY:O	46:TD:355:ASP:HA	2.19	0.43
45:TE:188:ILE:HG21	45:TE:422:ARG:NH2	2.33	0.43
46:TH:41:ASP:N	46:TH:41:ASP:OD1	2.51	0.43
45:TK:331:SER:O	45:TK:335:ILE:HG12	2.19	0.43
46:TL:19:LYS:HA	46:TL:19:LYS:HE3	2.01	0.43
46:TL:22:GLU:HG2	46:TL:81:PHE:CE2	2.53	0.43
46:TL:73:MET:SD	46:TL:92:PHE:HB3	2.59	0.43
45:UE:275:ILE:HG23	45:UE:368:LEU:HD11	2.01	0.43
46:UJ:117:LEU:O	46:UJ:121:ARG:HG2	2.18	0.43
45:UK:409:VAL:HA	45:UK:413:MET:HB2	1.99	0.43
46:UL:278:SER:O	46:UL:282:ARG:HG3	2.19	0.43
45:UM:18:ASN:O	45:UM:22:GLU:OE1	2.37	0.43
45:UM:432:TYR:HA	45:UM:435:VAL:HG22	2.00	0.43
45:VA:297:GLU:HB3	45:VA:300:ASN:ND2	2.34	0.43
46:VB:11:GLN:HA	46:VB:14:ASN:HD22	1.83	0.43
45:VC:287:SER:O	45:VC:290:GLU:HG2	2.18	0.43
45:VE:171:ILE:HG13	45:VE:204:LEU:HB2	1.99	0.43
45:VE:174:SER:HA	45:VE:205:ASP:OD2	2.19	0.43
46:VF:22:GLU:HG2	46:VF:81:PHE:CD1	2.54	0.43
46:VF:257:LEU:HD11	46:VF:314:SER:HB2	2.00	0.43
45:VG:17:GLY:HA2	45:VG:20:CYS:SG	2.57	0.43
45:VG:326:LYS:HZ2	46:VJ:219:THR:HA	1.82	0.43
45:VI:221:ARG:HD2	46:VJ:322:SER:OG	2.19	0.43
45:VI:386:GLU:OE1	45:VI:387:VAL:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VK:244:PHE:HB2	45:VK:356:ASN:HD21	1.84	0.43
46:VL:372:THR:HA	46:VL:422:TYR:CE2	2.46	0.43
46:VN:226:ASN:ND2	49:VN:501:GDP:HN1	2.13	0.43
46:VN:389:PHE:HZ	46:VN:405:GLU:HG2	1.84	0.43
45:WA:172:TYR:CD1	45:WA:173:PRO:HD2	2.54	0.43
46:WB:77:ARG:HG3	46:WB:78:ALA:N	2.34	0.43
45:WC:419:SER:O	45:WC:423:GLU:OE1	2.36	0.43
46:WD:123:GLU:OE1	46:WD:123:GLU:HA	2.17	0.43
46:WD:186:THR:HA	46:WD:189:VAL:HG12	2.00	0.43
46:WD:286:VAL:HA	46:WD:289:LEU:HB2	2.00	0.43
46:WH:211:CYS:SG	46:WH:220:PRO:HB3	2.58	0.43
45:WI:9:VAL:HG13	45:WI:139:ASN:HB3	2.01	0.43
45:WK:117:LEU:O	45:WK:121:ARG:HG2	2.18	0.43
46:WL:167:PHE:CE2	46:WL:200:MET:HG3	2.54	0.43
46:WN:153:SER:O	46:WN:156:ARG:N	2.52	0.43
45:DC:192:HIS:ND1	45:DC:424:ASP:OD2	2.44	0.43
1:0A:17:GLN:NE2	34:7R:46:GLU:O	2.33	0.43
3:0C:95:VAL:HG13	45:EI:364:PRO:HB2	1.99	0.43
9:0N:250:ILE:HD13	45:KK:1:MET:SD	2.58	0.43
21:1L:901:LYS:H	46:CB:320:ARG:NH1	2.14	0.43
25:1R:88:TYR:HE1	45:MC:35:GLN:NE2	2.15	0.43
25:1R:152:LEU:HA	46:AF:78:ALA:O	2.18	0.43
4:2D:81:ARG:NH1	46:EJ:356:ILE:HG23	2.32	0.43
25:2R:224:PHE:CG	46:BJ:80:PRO:HG3	2.53	0.43
14:2V:224:GLN:HB3	46:VH:77:ARG:HH21	1.84	0.43
35:4S:209:ARG:NH2	46:WD:118:ASP:HB2	2.26	0.43
36:5B:62:PRO:O	36:5B:63:THR:OG1	2.31	0.43
36:5C:134:VAL:O	36:5C:134:VAL:HG13	2.18	0.43
37:5E:67:ARG:HA	37:5E:68:PRO:HD3	1.80	0.43
37:5F:9:TYR:CD1	37:5F:10:PRO:HD3	2.54	0.43
10:5Q:79:ILE:O	10:5Q:80:ILE:HD13	2.19	0.43
34:5R:430:LEU:HD12	34:5R:502:ARG:O	2.18	0.43
34:5R:437:ASP:HB2	34:5R:440:ARG:HE	1.83	0.43
35:5S:81:HIS:HB3	45:WE:163:LYS:NZ	2.33	0.43
34:6R:360:TYR:HB3	34:6R:366:LEU:O	2.18	0.43
45:AA:51:THR:HG22	45:AA:52:PHE:CD2	2.53	0.43
45:AA:411:GLU:N	45:AA:411:GLU:OE1	2.52	0.43
46:AB:163:ILE:HD11	46:AB:251:ARG:HG3	2.01	0.43
45:AC:279:GLU:CD	45:AC:279:GLU:H	2.22	0.43
46:AD:135:ILE:HB	46:AD:166:THR:HG22	2.00	0.43
46:AF:107:THR:HG23	46:AF:108:GLU:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AG:141:VAL:HG12	45:AG:171:ILE:O	2.19	0.43
45:AI:75:ILE:HG21	45:AI:94:SER:HB2	2.00	0.43
45:AI:231:ILE:O	45:AI:235:ILE:HG12	2.19	0.43
45:AI:334:THR:O	45:AI:338:LYS:HG2	2.19	0.43
45:AM:244:PHE:CE1	45:AM:358:GLN:HG3	2.53	0.43
45:BG:101:ASN:HA	45:BG:144:GLY:N	2.33	0.43
45:BK:3:GLU:OE2	45:BK:129:CYS:HB3	2.19	0.43
46:BL:350:LYS:HD3	46:BL:351:SER:N	2.33	0.43
45:BM:288:VAL:HA	45:BM:291:ILE:HG12	2.01	0.43
46:CB:206:ALA:O	46:CB:210:ILE:HG12	2.18	0.43
46:CB:256:ASN:HB3	46:CB:350:LYS:CE	2.48	0.43
46:CB:374:ILE:O	46:CB:377:MET:HG2	2.18	0.43
46:CD:31:ASP:OD1	46:CD:35:THR:N	2.43	0.43
45:CG:175:PRO:HB2	45:CG:176:GLN:OE1	2.18	0.43
46:CH:335:ASN:OD1	46:CH:336:LYS:N	2.51	0.43
45:CI:434:GLU:O	45:CI:437:ILE:HG22	2.18	0.43
45:CK:2:ARG:NE	45:CK:2:ARG:HA	2.33	0.43
45:CK:10:GLY:O	45:CK:14:ILE:HG12	2.18	0.43
45:CM:268:MET:SD	45:CM:380:ASN:HB2	2.59	0.43
46:CN:86:ARG:HB2	46:DN:281:TYR:CD2	2.54	0.43
45:DE:164:LYS:HD3	45:DE:164:LYS:HA	1.88	0.43
45:DG:349:THR:O	46:DH:179:VAL:HG23	2.18	0.43
46:DL:258:ILE:O	46:DL:258:ILE:HG13	2.19	0.43
46:DL:324:LYS:NZ	45:DM:210:TYR:CE1	2.85	0.43
46:DL:347:ASN:ND2	45:DM:178:SER:OG	2.45	0.43
46:DN:312:THR:HG22	46:DN:370:ASN:HB3	2.00	0.43
46:EB:22:GLU:HA	46:EB:81:PHE:HD2	1.83	0.43
45:EC:207:GLU:HA	45:EC:210:TYR:CD2	2.54	0.43
45:EC:331:SER:O	45:EC:335:ILE:HG12	2.19	0.43
45:EE:31:GLN:HG3	45:EE:33:ASP:OD1	2.19	0.43
46:EF:16:ILE:HD13	46:EF:226:ASN:OD1	2.18	0.43
46:EF:288:GLU:O	46:EF:291:GLN:HG3	2.19	0.43
46:EH:313:ALA:HB1	46:EH:367:PHE:HE1	1.83	0.43
45:EI:75:ILE:HG23	45:EI:92:LEU:HB3	2.00	0.43
46:EJ:178:THR:HB	46:EJ:181:GLU:HG3	2.01	0.43
46:EJ:204:ASN:HD22	46:EJ:204:ASN:HA	1.62	0.43
45:EK:317:MET:HB3	45:EK:377:MET:SD	2.59	0.43
45:EK:370:LYS:HA	45:EK:370:LYS:HD2	1.91	0.43
46:EL:282:ARG:NE	46:EL:282:ARG:HA	2.33	0.43
46:EN:67:ASP:OD1	46:EN:68:LEU:N	2.50	0.43
46:FB:248:SER:HA	46:FB:252:LYS:HD2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FD:31:ASP:OD2	46:FD:33:THR:OG1	2.36	0.43
45:FE:336:LYS:HD3	45:FE:351:PHE:HE1	1.83	0.43
46:FJ:284:LEU:HD21	46:FJ:363:MET:H	1.83	0.43
45:FK:346:TRP:HZ3	46:FN:393:ALA:HA	1.83	0.43
45:FM:407:TRP:HH2	46:FN:258:ILE:HB	1.84	0.43
45:GA:105:ARG:HH12	46:GB:251:ARG:HE	1.65	0.43
45:GA:276:ILE:HD13	45:GA:286:LEU:HD11	2.00	0.43
45:GA:297:GLU:CD	45:GA:299:ALA:H	2.21	0.43
45:GA:340:THR:HG23	45:GA:341:ILE:HD12	2.01	0.43
46:GB:58:ARG:NH2	46:HB:281:TYR:HA	2.32	0.43
45:GC:118:CYS:O	45:GC:122:ILE:HG12	2.19	0.43
46:GD:382:ALA:O	46:GD:386:THR:HG22	2.18	0.43
45:GE:419:SER:O	45:GE:423:GLU:HG2	2.19	0.43
46:GF:330:MET:SD	46:GF:349:ILE:HG21	2.57	0.43
45:GG:209:ILE:HG23	45:GG:227:LEU:HD22	2.00	0.43
45:GK:212:ILE:HD11	45:GK:300:ASN:HA	2.01	0.43
46:GL:67:ASP:OD1	46:GL:69:GLU:N	2.38	0.43
45:GM:318:MET:SD	45:GM:354:GLY:HA3	2.58	0.43
45:HC:153:LEU:HD23	45:HC:153:LEU:HA	1.81	0.43
45:HE:269:LEU:HD23	45:HE:384:ILE:HD13	2.00	0.43
46:HF:131:GLN:OE1	46:HF:131:GLN:HA	2.19	0.43
46:HH:5:VAL:HG12	46:HH:62:ARG:HD3	2.00	0.43
46:HH:318:ARG:HH11	46:HH:358:PRO:HG3	1.83	0.43
46:HL:200:MET:HE2	46:HL:268:ILE:HG21	2.00	0.43
45:IC:356:ASN:OD1	45:IC:357:TYR:N	2.51	0.43
45:IG:90:GLU:OE1	45:IG:121:ARG:NE	2.52	0.43
45:IG:167:LEU:HD22	45:IG:200:VAL:HB	2.01	0.43
45:IK:384:ILE:O	45:IK:387:VAL:HG22	2.19	0.43
46:IL:391:ARG:HA	46:IL:391:ARG:HD2	1.78	0.43
45:JC:88:HIS:HB3	45:JC:91:GLN:HG2	2.00	0.43
45:JE:180:ALA:HB3	45:JE:183:GLU:HB3	1.99	0.43
45:JI:177:VAL:HG23	46:JJ:327:ASP:HB2	1.99	0.43
46:JJ:52:ASN:OD1	46:JJ:62:ARG:NH2	2.52	0.43
46:JJ:175:VAL:HG13	46:JJ:205:GLU:OE2	2.19	0.43
45:JK:21:TRP:CH2	45:JK:63:PRO:HB3	2.53	0.43
46:JL:299:MET:HE3	46:JL:299:MET:HA	2.00	0.43
46:JN:341:PHE:HD1	46:JN:348:ASN:HD21	1.67	0.43
45:KA:406:HIS:CE1	46:KB:261:PRO:HD3	2.53	0.43
46:KB:181:GLU:HG3	46:KB:182:PRO:HD3	2.01	0.43
45:KC:229:ARG:NH1	45:KC:365:GLY:O	2.52	0.43
45:KE:11:GLN:NE2	47:KE:501:GTP:O1B	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:251:ASP:OD2	45:KE:252:ILE:N	2.51	0.43
46:KF:420:SER:O	46:KF:424:GLN:HG2	2.19	0.43
45:KI:22:GLU:HG3	45:KI:83:TYR:OH	2.17	0.43
45:KK:223:THR:HG23	45:KK:225:THR:H	1.84	0.43
46:KL:238:CYS:SG	46:KL:318:ARG:HD3	2.59	0.43
46:KL:407:GLU:HA	46:KL:410:GLU:CG	2.48	0.43
46:LB:310:TYR:CD2	46:LB:371:SER:HB2	2.53	0.43
45:LC:41:THR:HG22	45:LC:41:THR:O	2.19	0.43
45:LG:19:ALA:O	45:LG:22:GLU:HG3	2.18	0.43
45:LG:287:SER:HB3	45:LG:290:GLU:OE1	2.19	0.43
46:LH:270:PHE:HD2	46:LH:273:LEU:HD21	1.82	0.43
46:LH:303:ALA:N	46:LH:377:MET:HE1	2.34	0.43
45:LI:227:LEU:O	45:LI:231:ILE:HG12	2.18	0.43
46:LL:8:GLN:OE1	46:LL:17:GLY:HA3	2.18	0.43
45:MC:184:PRO:O	45:MC:188:ILE:HG12	2.19	0.43
45:MC:287:SER:O	45:MC:291:ILE:HG23	2.19	0.43
46:MD:1:MET:O	46:MD:2:ARG:HG2	2.18	0.43
45:ME:56:THR:HG23	45:ME:58:ALA:H	1.84	0.43
46:ML:183:TYR:O	46:ML:187:LEU:HG	2.19	0.43
46:ML:386:THR:OG1	46:ML:390:ARG:NH2	2.52	0.43
45:NA:56:THR:HG23	45:NA:58:ALA:H	1.83	0.43
45:NA:224:TYR:CD1	47:NA:501:GTP:C6	3.05	0.43
46:NB:414:ASN:O	46:NB:418:LEU:HD23	2.18	0.43
45:NC:22:GLU:HG2	45:NC:83:TYR:OH	2.18	0.43
45:NE:200:VAL:HG13	45:NE:268:MET:CE	2.48	0.43
45:NG:9:VAL:HG13	45:NG:139:ASN:HB3	2.00	0.43
45:NI:167:LEU:HD22	45:NI:200:VAL:HB	2.01	0.43
45:NK:8:HIS:CD2	45:NK:17:GLY:HA3	2.54	0.43
45:NM:183:GLU:N	45:NM:184:PRO:HD2	2.33	0.43
45:NM:237:SER:HA	45:NM:320:ARG:HH11	1.84	0.43
45:OC:192:HIS:ND1	45:OC:421:ALA:HA	2.33	0.43
45:OI:231:ILE:O	45:OI:235:ILE:HG12	2.19	0.43
45:OK:141:VAL:HG22	45:OK:187:SER:HA	2.01	0.43
45:OK:262:TYR:OH	46:ON:391:ARG:O	2.24	0.43
46:OL:32:PRO:HA	46:OL:84:LEU:HD21	2.01	0.43
45:PC:434:GLU:O	45:PC:437:ILE:HG12	2.18	0.43
46:PD:19:LYS:HE2	46:PD:227:HIS:HA	2.01	0.43
46:PD:119:VAL:HG13	46:PD:122:LYS:NZ	2.34	0.43
45:PE:10:GLY:O	45:PE:14:ILE:HG12	2.19	0.43
45:PI:107:HIS:ND1	45:PI:107:HIS:O	2.52	0.43
46:PJ:205:GLU:HG2	46:PJ:206:ALA:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PJ:371:SER:O	46:PJ:422:TYR:OH	2.29	0.43
45:PK:268:MET:HB2	45:PK:379:SER:O	2.18	0.43
46:PL:344:TRP:HE3	46:PL:345:ILE:HG23	1.82	0.43
45:PM:88:HIS:HB3	45:PM:91:GLN:CG	2.49	0.43
45:PM:207:GLU:O	45:PM:210:TYR:HB2	2.17	0.43
46:PN:22:GLU:HG2	46:PN:81:PHE:HB2	1.99	0.43
45:QC:88:HIS:HE1	45:QC:90:GLU:HB3	1.83	0.43
46:QD:69:GLU:CD	46:QD:71:GLY:H	2.22	0.43
46:QH:65:LEU:HD22	46:QH:90:PHE:HE1	1.84	0.43
45:QI:175:PRO:HB2	45:QI:176:GLN:OE1	2.18	0.43
46:QL:49:VAL:HG21	46:QL:241:ARG:HG2	2.00	0.43
45:QM:31:GLN:HG3	45:QM:37:PRO:HD3	2.01	0.43
46:QN:282:ARG:NH2	46:QN:292:GLN:OE1	2.46	0.43
46:RF:45:GLU:OE1	46:RF:45:GLU:N	2.39	0.43
46:RF:46:ARG:NH2	45:RG:76:ASP:OD2	2.48	0.43
46:RF:317:PHE:CD1	46:RF:365:VAL:HG22	2.54	0.43
46:RH:384:GLN:OE1	46:RH:384:GLN:HA	2.19	0.43
46:RL:164:MET:HE3	46:RL:196:ALA:HA	2.01	0.43
46:RL:375:GLN:O	46:RL:379:LYS:HG2	2.19	0.43
45:RM:105:ARG:HD2	45:RM:105:ARG:HA	1.88	0.43
45:RM:329:ASN:HB3	46:RN:175:VAL:HG12	2.00	0.43
45:SA:292:THR:HG21	45:SA:331:SER:HB3	2.00	0.43
45:SC:107:HIS:ND1	45:SC:107:HIS:O	2.51	0.43
45:SC:243:ARG:HG3	45:SC:244:PHE:CD2	2.54	0.43
46:SD:27:GLU:HA	46:SD:359:LYS:HD2	2.00	0.43
46:SD:238:CYS:SG	46:SD:239:CYS:N	2.92	0.43
46:SD:285:THR:OG1	46:SD:288:GLU:HG3	2.18	0.43
46:SD:374:ILE:HG12	46:SD:378:PHE:CE1	2.54	0.43
46:SF:174:LYS:HE2	46:SF:205:GLU:CG	2.43	0.43
46:SH:238:CYS:SG	46:SH:239:CYS:N	2.91	0.43
45:SK:88:HIS:O	45:SK:91:GLN:HG2	2.18	0.43
45:SK:399:TYR:HB3	45:SK:422:ARG:NH2	2.32	0.43
45:SM:90:GLU:HG2	45:SM:121:ARG:NH1	2.34	0.43
45:TC:123:ARG:NH2	45:TC:161:TYR:OH	2.51	0.43
45:TE:151:SER:O	45:TE:154:LEU:N	2.52	0.43
45:TE:338:LYS:HA	45:TE:338:LYS:HD2	1.84	0.43
46:TF:286:VAL:HB	46:TF:325:GLU:HG2	2.01	0.43
46:TF:350:LYS:HA	45:TG:179:THR:O	2.19	0.43
45:TG:292:THR:HG21	45:TG:331:SER:HB3	2.00	0.43
46:TH:301:CYS:SG	46:TH:302:ALA:N	2.91	0.43
45:TI:205:ASP:OD1	45:TI:303:ALA:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TJ:315:ALA:HB1	46:TJ:317:PHE:HE2	1.83	0.43
45:TK:11:GLN:HE21	47:TK:501:GTP:PB	2.42	0.43
45:TK:75:ILE:HD12	45:TK:75:ILE:H	1.82	0.43
45:TM:109:THR:HG21	45:TM:411:GLU:HB2	2.00	0.43
46:TN:238:CYS:SG	46:TN:239:CYS:N	2.92	0.43
46:UB:245:GLN:NE2	45:UC:15:GLN:OE1	2.51	0.43
45:UC:2:ARG:O	45:UC:51:THR:HA	2.19	0.43
45:UC:320:ARG:HB2	45:UC:358:GLN:O	2.19	0.43
46:UD:108:GLU:O	46:UD:111:GLU:HG3	2.18	0.43
45:UE:414:GLU:HG2	45:UE:415:GLU:OE2	2.18	0.43
46:UH:130:LEU:HB3	46:UH:162:ARG:HD3	2.00	0.43
46:UH:406:MET:O	46:UH:410:GLU:HG3	2.19	0.43
45:UK:56:THR:HG23	45:UK:58:ALA:H	1.84	0.43
45:UK:292:THR:HG21	45:UK:331:SER:HB3	1.99	0.43
46:UL:406:MET:O	46:UL:410:GLU:HG3	2.18	0.43
45:UM:83:TYR:N	45:UM:84:ARG:HH11	2.16	0.43
46:UN:180:VAL:HA	46:UN:183:TYR:CD1	2.54	0.43
46:VB:190:HIS:O	46:VB:193:VAL:HG12	2.18	0.43
46:VB:239:CYS:SG	46:VB:247:ASN:HA	2.58	0.43
45:VC:210:TYR:CE2	46:VD:324:LYS:HE3	2.54	0.43
46:VD:221:THR:OG1	46:VD:222:TYR:N	2.51	0.43
46:VH:16:ILE:HD13	46:VH:226:ASN:OD1	2.19	0.43
45:VI:276:ILE:HD11	45:VI:280:LYS:HD2	2.01	0.43
46:VJ:145:SER:HB2	46:VJ:188:SER:HB3	2.00	0.43
46:VL:65:LEU:HD22	46:VL:90:PHE:CE1	2.54	0.43
45:WC:173:PRO:O	45:WC:390:ARG:NH2	2.46	0.43
46:WD:171:PRO:HG3	46:WD:185:ALA:HB2	2.01	0.43
45:WE:387:VAL:HA	45:WE:390:ARG:HG2	1.99	0.43
45:WE:414:GLU:CD	45:WE:416:GLY:H	2.21	0.43
45:WI:67:PHE:HB2	45:WI:92:LEU:HD13	2.00	0.43
45:WI:251:ASP:H	45:WI:254:GLU:HB2	1.83	0.43
46:WJ:238:CYS:SG	46:WJ:239:CYS:N	2.92	0.43
45:WK:51:THR:HG23	45:WK:52:PHE:CD2	2.53	0.43
45:CE:217:LEU:HB3	45:CE:219:ILE:HG12	2.00	0.43
45:CE:288:VAL:HG21	45:CE:327:ASP:CB	2.46	0.43
45:DC:21:TRP:CE3	45:DC:24:PHE:HD2	2.35	0.43
45:DC:155:GLU:O	45:DC:158:SER:OG	2.29	0.43
4:2D:87:GLU:HB3	45:EK:77:GLU:OE2	2.17	0.43
25:2R:235:PHE:CZ	46:CH:216:LYS:HG3	2.54	0.43
14:2V:106:TYR:OH	45:LE:192:HIS:O	2.35	0.43
34:4R:296:GLY:HA3	46:DF:276:ARG:HB3	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:4S:70:ASP:OD2	35:4S:71:ARG:N	2.52	0.43
36:5B:32:ALA:O	36:5B:34:PHE:N	2.51	0.43
36:5B:65:THR:HG23	36:5B:68:ASP:H	1.82	0.43
36:5B:126:ILE:HD12	36:5B:126:ILE:H	1.83	0.43
39:6F:41:TYR:HB3	39:6F:56:LEU:HD12	2.00	0.43
10:6Q:74:PRO:HB3	10:6Q:148:TYR:CZ	2.53	0.43
34:6R:330:SER:N	34:6R:333:ASP:OD2	2.52	0.43
34:6R:383:GLN:HE22	46:DN:83:GLN:HG3	1.84	0.43
45:AE:105:ARG:NH1	46:AF:251:ARG:HD3	2.33	0.43
45:AE:201:ALA:HB3	45:AE:267:PHE:HD1	1.82	0.43
45:AI:88:HIS:ND1	45:AI:90:GLU:HG2	2.33	0.43
45:AI:224:TYR:HE2	46:AJ:246:LEU:HD11	1.82	0.43
46:AJ:6:HIS:NE2	46:AJ:8:GLN:OE1	2.52	0.43
46:AJ:286:VAL:CG2	46:AJ:287:PRO:HD3	2.48	0.43
45:AK:322:ASP:OD1	45:AK:373:ARG:NH1	2.52	0.43
46:AL:184:ASN:OD1	46:AL:185:ALA:N	2.52	0.43
46:AL:213:ARG:HE	46:AL:213:ARG:HB3	1.57	0.43
46:AN:156:ARG:HH22	46:AN:197:ASP:CG	2.22	0.43
46:AN:293:MET:HA	46:AN:298:ASN:ND2	2.34	0.43
45:BC:390:ARG:NH1	45:BC:390:ARG:HG3	2.34	0.43
46:BD:107:THR:OG1	46:BD:401:GLU:OE2	2.21	0.43
46:BD:174:LYS:HD3	46:BD:174:LYS:N	2.34	0.43
45:BK:222:PRO:HG2	46:BL:324:LYS:HE3	2.00	0.43
45:BM:77:GLU:HA	45:BM:80:THR:HG22	2.01	0.43
46:BN:7:ILE:HB	46:BN:135:ILE:HD12	2.00	0.43
46:CB:6:HIS:O	46:CB:63:ALA:HA	2.19	0.43
45:CC:252:ILE:HA	45:CC:255:PHE:CD1	2.54	0.43
46:CF:64:ILE:HA	46:CF:89:ASN:HB3	2.01	0.43
46:CF:186:THR:HA	46:CF:189:VAL:HG12	2.00	0.43
46:CF:345:ILE:O	46:CF:345:ILE:HG13	2.19	0.43
45:CG:121:ARG:HA	45:CG:121:ARG:NH1	2.33	0.43
45:CG:275:ILE:HA	45:CG:368:LEU:HD11	2.00	0.43
45:CG:276:ILE:HD11	45:CG:280:LYS:HG3	2.01	0.43
45:CG:311:LYS:O	45:CG:381:SER:OG	2.28	0.43
46:CL:6:HIS:O	46:CL:63:ALA:HA	2.18	0.43
46:CL:148:GLY:O	46:CL:152:ILE:HG13	2.18	0.43
46:CL:222:TYR:HA	46:CL:225:LEU:HG	2.01	0.43
46:CL:343:GLU:OE2	46:CL:344:TRP:HD1	2.02	0.43
46:CN:22:GLU:HG2	46:CN:81:PHE:CD2	2.53	0.43
46:DF:55:THR:HG23	46:EF:283:ALA:HA	2.01	0.43
45:DG:171:ILE:HG22	45:DG:204:LEU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:273:LEU:N	46:DH:292:GLN:OE1	2.38	0.43
45:DK:75:ILE:HD12	45:DK:75:ILE:H	1.83	0.43
46:EB:6:HIS:HB3	46:EB:21:TRP:HZ2	1.83	0.43
46:EB:20:PHE:HA	46:EB:230:SER:HB3	1.99	0.43
45:EC:153:LEU:O	45:EC:157:LEU:HD23	2.18	0.43
45:EC:326:LYS:HD2	45:EC:326:LYS:HA	1.81	0.43
46:EF:362:LYS:HE2	46:EF:362:LYS:HB2	1.80	0.43
45:EG:73:THR:O	45:EG:77:GLU:OE1	2.36	0.43
46:EH:213:ARG:HH21	46:EH:297:LYS:CE	2.32	0.43
45:EK:184:PRO:O	45:EK:188:ILE:HG12	2.18	0.43
46:EN:21:TRP:CH2	46:EN:61:PRO:HB3	2.54	0.43
46:EN:178:THR:HG22	46:EN:180:VAL:H	1.83	0.43
45:FA:33:ASP:HB2	45:FA:35:GLN:HE22	1.84	0.43
46:FB:105:HIS:CE1	46:FB:150:LEU:HD12	2.54	0.43
46:FD:143:THR:HG23	46:FD:144:GLY:N	2.34	0.43
46:FH:409:THR:O	46:FH:412:GLU:HG3	2.19	0.43
46:FL:175:VAL:HG23	46:FL:175:VAL:O	2.18	0.43
46:FL:262:ARG:NH1	46:FL:421:GLU:HG3	2.34	0.43
45:GA:221:ARG:NH1	46:GB:325:GLU:HB3	2.34	0.43
46:GB:61:PRO:CD	46:GB:84:LEU:HB3	2.49	0.43
46:GD:28:HIS:C	46:GD:43:GLN:HE21	2.22	0.43
45:GK:22:GLU:HG3	45:GK:83:TYR:CE2	2.53	0.43
45:GK:141:VAL:HG12	45:GK:171:ILE:O	2.19	0.43
46:GN:215:LEU:O	46:GN:216:LYS:HG3	2.18	0.43
45:HA:269:LEU:HD11	45:HA:384:ILE:HD13	2.00	0.43
45:HC:3:GLU:OE2	45:HC:131:GLY:N	2.52	0.43
46:HD:274:THR:HG23	46:HD:279:GLN:OE1	2.18	0.43
46:HL:26:ASP:O	46:HL:359:LYS:NZ	2.35	0.43
46:HL:190:HIS:CD2	46:HL:414:ASN:HD22	2.37	0.43
46:HL:286:VAL:HB	46:HL:325:GLU:OE1	2.19	0.43
45:HM:223:THR:HG23	45:HM:225:THR:H	1.82	0.43
46:HN:33:THR:HA	46:HN:83:GLN:NE2	2.34	0.43
46:HN:205:GLU:HG2	46:HN:206:ALA:N	2.34	0.43
45:IA:119:LEU:HA	45:IA:122:ILE:HG12	2.01	0.43
46:IB:28:HIS:HA	46:IB:43:GLN:OE1	2.18	0.43
45:IC:257:THR:HA	46:IF:397:TRP:CZ3	2.54	0.43
45:IC:286:LEU:HA	45:IC:290:GLU:OE1	2.19	0.43
45:IE:237:SER:HA	45:IE:320:ARG:HH21	1.84	0.43
45:IG:417:GLU:HA	45:IG:420:GLU:OE2	2.17	0.43
46:IH:36:TYR:CE1	46:IH:44:LEU:HD11	2.54	0.43
46:IL:276:ARG:HG3	46:IL:277:GLY:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:179:THR:HG22	46:IN:350:LYS:NZ	2.33	0.43
45:IM:294:SER:O	45:IM:300:ASN:ND2	2.30	0.43
45:JC:96:LYS:NZ	46:JD:1:MET:SD	2.76	0.43
45:JG:40:LYS:HZ2	45:JG:42:ILE:HD13	1.84	0.43
46:JH:213:ARG:HH12	46:JH:297:LYS:HB3	1.84	0.43
46:JH:342:VAL:HG13	46:JH:345:ILE:HG22	1.99	0.43
45:JI:326:LYS:HA	46:JL:208:TYR:HE1	1.83	0.43
45:JK:35:GLN:N	45:JK:35:GLN:OE1	2.52	0.43
45:JK:149:LEU:O	45:JK:153:LEU:HD23	2.19	0.43
46:JN:212:PHE:CD1	46:JN:213:ARG:HD2	2.54	0.43
45:KA:430:LYS:O	45:KA:434:GLU:HG2	2.18	0.43
46:KB:297:LYS:HA	46:KB:297:LYS:HD2	1.70	0.43
46:KD:282:ARG:HH22	46:KD:292:GLN:HE22	1.66	0.43
46:KD:329:GLN:O	46:KD:333:VAL:HG12	2.18	0.43
46:KH:69:GLU:HA	46:KH:70:PRO:HD3	1.80	0.43
45:KK:71:GLU:HA	45:KK:72:PRO:HD3	1.88	0.43
45:KK:88:HIS:ND1	45:KK:90:GLU:HG2	2.34	0.43
45:KK:426:ALA:O	45:KK:430:LYS:HG3	2.18	0.43
45:KM:2:ARG:HD2	45:KM:242:LEU:O	2.19	0.43
45:KM:56:THR:O	45:LM:285:GLN:HG2	2.18	0.43
45:LA:265:ILE:HG22	45:LA:432:TYR:CE2	2.54	0.43
46:LB:31:ASP:OD2	46:LB:33:THR:OG1	2.36	0.43
45:LC:274:PRO:HG3	45:LC:286:LEU:HD12	2.00	0.43
46:LD:207:LEU:HB3	46:LD:225:LEU:HD22	2.00	0.43
45:LE:387:VAL:HG12	45:LE:390:ARG:NH2	2.33	0.43
46:LF:310:TYR:CD2	46:LF:371:SER:HB2	2.54	0.43
46:LH:138:SER:HA	46:LH:169:VAL:HB	2.01	0.43
45:LI:254:GLU:O	45:LI:352:LYS:NZ	2.50	0.43
45:LI:395:PHE:CD2	45:LI:422:ARG:HD3	2.53	0.43
46:LJ:309:ARG:H	46:LJ:372:THR:HG22	1.84	0.43
45:LM:328:VAL:O	45:LM:332:ILE:HG23	2.19	0.43
46:LN:341:PHE:CE1	46:LN:349:ILE:HD11	2.54	0.43
45:MA:151:SER:O	45:MA:155:GLU:OE1	2.36	0.43
46:MB:289:LEU:HD13	46:MB:365:VAL:HG23	2.00	0.43
46:MH:183:TYR:HA	46:MH:385:PHE:CE1	2.54	0.43
46:MJ:190:HIS:CD2	46:MJ:411:ALA:HA	2.54	0.43
45:MK:163:LYS:HE2	45:MK:163:LYS:HB2	1.87	0.43
45:NA:121:ARG:HA	45:NA:121:ARG:NH1	2.34	0.43
45:NC:8:HIS:CD2	45:NC:17:GLY:HA3	2.53	0.43
46:ND:317:PHE:CE2	46:ND:326:VAL:HG13	2.54	0.43
45:NE:346:TRP:O	46:NH:391:ARG:NH1	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NF:190:HIS:CD2	46:NF:411:ALA:HA	2.54	0.43
46:NJ:6:HIS:O	46:NJ:63:ALA:HA	2.19	0.43
45:NK:19:ALA:O	45:NK:22:GLU:HG2	2.18	0.43
46:NL:27:GLU:OE2	46:NL:318:ARG:NH2	2.51	0.43
45:NM:121:ARG:HH11	45:NM:124:LYS:HZ3	1.67	0.43
45:OA:352:LYS:HE2	46:OD:178:THR:HA	2.00	0.43
45:OC:50:ASN:O	45:OC:64:ARG:NH1	2.52	0.43
45:OC:70:LEU:HB3	45:OC:98:ASP:HA	2.00	0.43
45:OC:271:SER:OG	45:OC:301:MET:HA	2.19	0.43
46:OF:100:ASN:HB3	46:OF:103:LYS:HB3	2.01	0.43
46:OF:113:ILE:HA	46:OF:116:VAL:HG12	2.01	0.43
46:OF:233:MET:O	46:OF:236:VAL:HG12	2.19	0.43
45:OI:8:HIS:CD2	45:OI:138:PHE:HD2	2.37	0.43
45:OK:115:VAL:HG11	45:OK:152:LEU:HD23	2.00	0.43
45:OK:317:MET:SD	45:OK:353:VAL:HG12	2.59	0.43
45:OK:320:ARG:NH2	45:OK:358:GLN:OE1	2.45	0.43
45:OK:387:VAL:O	45:OK:391:LEU:HD23	2.19	0.43
46:OL:361:LEU:HD23	46:OL:361:LEU:HA	1.83	0.43
45:OM:21:TRP:CZ3	45:OM:52:PHE:HD1	2.37	0.43
45:OM:51:THR:HG22	45:OM:52:PHE:HD2	1.83	0.43
45:OM:214:ARG:NH2	45:OM:220:GLU:OE2	2.52	0.43
45:OM:389:SER:O	45:OM:393:HIS:ND1	2.52	0.43
45:PC:132:LEU:HD22	45:PC:164:LYS:HZ3	1.82	0.43
46:PD:239:CYS:SG	46:PD:247:ASN:HA	2.58	0.43
45:PE:192:HIS:ND1	45:PE:424:ASP:OD2	2.52	0.43
45:PE:313:MET:HE2	45:PE:313:MET:HB3	1.85	0.43
46:PF:258:ILE:HG13	46:PF:266:PHE:HZ	1.83	0.43
45:PG:34:GLY:O	45:PG:60:LYS:HA	2.19	0.43
45:PG:186:ASN:OD1	45:PG:187:SER:N	2.52	0.43
45:PG:251:ASP:H	45:PG:254:GLU:CG	2.31	0.43
45:PG:387:VAL:HA	45:PG:390:ARG:CD	2.47	0.43
46:PH:232:ALA:HB1	46:PH:268:ILE:HD12	1.99	0.43
46:PJ:3:GLU:OE2	46:PJ:127:CYS:HB2	2.18	0.43
45:PK:32:PRO:HB3	45:PK:83:TYR:CE1	2.54	0.43
45:PK:231:ILE:O	45:PK:235:ILE:HG12	2.19	0.43
46:PL:9:GLY:HA2	46:PL:66:MET:O	2.19	0.43
46:PL:212:PHE:HE1	46:PL:220:PRO:HG2	1.83	0.43
45:QA:136:LEU:HD12	45:QA:167:LEU:O	2.18	0.43
46:QB:86:ARG:HH11	46:RB:281:TYR:HB2	1.84	0.43
45:QC:166:LYS:HD2	45:QC:197:HIS:O	2.18	0.43
46:QH:222:TYR:HA	46:QH:225:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QH:273:LEU:O	46:QH:282:ARG:NH2	2.51	0.43
46:QH:325:GLU:OE2	45:QI:221:ARG:HA	2.19	0.43
45:QI:117:LEU:O	45:QI:121:ARG:HG2	2.17	0.43
46:QJ:8:GLN:NE2	46:QJ:14:ASN:HA	2.33	0.43
46:QJ:257:LEU:HA	46:QJ:312:THR:HG21	2.00	0.43
45:QK:172:TYR:OH	45:QK:191:THR:HG22	2.18	0.43
46:QL:203:ASP:O	46:QL:207:LEU:HG	2.18	0.43
46:QL:267:MET:CE	46:QL:301:CYS:HB2	2.48	0.43
46:RD:233:MET:O	46:RD:236:VAL:HG12	2.19	0.43
46:RF:330:MET:HA	46:RF:333:VAL:HG12	2.00	0.43
45:RI:99:ALA:HA	45:RI:105:ARG:HG2	2.01	0.43
45:RI:101:ASN:HA	45:RI:144:GLY:H	1.84	0.43
45:RI:184:PRO:O	45:RI:188:ILE:HG12	2.19	0.43
45:RK:226:ASN:ND2	45:RK:367:ASP:OD2	2.52	0.43
45:RK:261:PRO:HA	46:RL:394:PHE:CD1	2.54	0.43
46:RL:224:ASP:O	46:RL:228:LEU:HD13	2.18	0.43
46:RN:100:ASN:ND2	46:RN:102:ALA:HB3	2.34	0.43
46:SB:212:PHE:O	46:SB:216:LYS:HA	2.17	0.43
46:SB:217:LEU:HD12	46:SB:218:THR:N	2.34	0.43
46:SB:318:ARG:HB3	46:SB:357:PRO:HA	2.00	0.43
45:SC:434:GLU:O	45:SC:437:ILE:HG22	2.19	0.43
46:SF:139:LEU:HD22	46:SF:170:VAL:HG22	2.00	0.43
46:SF:153:SER:O	46:SF:157:GLU:OE1	2.36	0.43
46:SF:252:LYS:HZ3	46:SF:252:LYS:HG3	1.64	0.43
46:SF:269:GLY:HA2	46:SF:300:MET:HE2	2.00	0.43
46:SH:403:MET:HG2	46:SH:407:GLU:OE2	2.18	0.43
46:SJ:86:ARG:HD2	46:TJ:282:ARG:NH2	2.33	0.43
46:SJ:131:GLN:O	46:SJ:163:ILE:HG12	2.18	0.43
45:SK:207:GLU:HA	45:SK:210:TYR:HB2	2.01	0.43
46:SL:1:MET:O	46:SL:2:ARG:HG2	2.18	0.43
46:SL:293:MET:HE2	46:SL:367:PHE:HB3	2.01	0.43
45:SM:141:VAL:HG12	45:SM:171:ILE:O	2.19	0.43
46:TB:6:HIS:HB2	46:TB:21:TRP:HZ2	1.84	0.43
45:TC:226:ASN:O	45:TC:230:LEU:HD23	2.18	0.43
46:TD:345:ILE:HG23	46:TD:345:ILE:O	2.18	0.43
46:TF:253:LEU:HA	46:TF:350:LYS:NZ	2.33	0.43
46:TH:9:GLY:HA3	46:TH:66:MET:HE3	2.00	0.43
46:TJ:288:GLU:O	46:TJ:291:GLN:HG3	2.18	0.43
46:TJ:322:SER:H	45:TK:221:ARG:NH2	2.16	0.43
45:TM:384:ILE:O	45:TM:387:VAL:HG22	2.18	0.43
45:UC:313:MET:HB2	45:UC:380:ASN:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:9:GLY:HA2	46:UD:66:MET:O	2.19	0.43
45:UE:155:GLU:OE1	45:UE:155:GLU:N	2.44	0.43
46:UH:86:ARG:HG3	46:VH:281:TYR:CE1	2.53	0.43
45:UI:242:LEU:HD21	45:UI:251:ASP:OD1	2.18	0.43
46:UJ:122:LYS:HG3	46:UJ:123:GLU:N	2.33	0.43
45:UK:24:PHE:CE1	45:UK:52:PHE:HE2	2.36	0.43
46:UL:16:ILE:HD12	46:UL:229:VAL:HG21	2.00	0.43
46:UL:116:VAL:HA	46:UL:119:VAL:HG12	2.01	0.43
46:UL:346:PRO:O	45:UM:394:LYS:NZ	2.47	0.43
46:UN:106:TYR:HE2	46:UN:403:MET:HG2	1.83	0.43
46:VB:295:ASP:OD1	46:VB:297:LYS:HG3	2.18	0.43
46:VB:318:ARG:NE	46:VB:356:ILE:O	2.46	0.43
46:VD:130:LEU:HB3	46:VD:162:ARG:CZ	2.48	0.43
46:VD:317:PHE:CD1	46:VD:365:VAL:HG22	2.54	0.43
46:VD:362:LYS:HA	46:VD:362:LYS:HD3	1.82	0.43
45:VE:47:ASP:HB2	45:VE:50:ASN:OD1	2.19	0.43
45:VE:71:GLU:OE2	45:VE:73:THR:OG1	2.33	0.43
46:VH:253:LEU:O	46:VH:257:LEU:HB2	2.19	0.43
45:VI:171:ILE:HG23	45:VI:204:LEU:O	2.18	0.43
46:VJ:174:LYS:HA	46:VJ:174:LYS:HD3	1.84	0.43
45:WA:119:LEU:O	45:WA:123:ARG:HG2	2.18	0.43
45:WA:184:PRO:O	45:WA:188:ILE:HG12	2.18	0.43
45:WC:334:THR:HG22	45:WC:338:LYS:HZ2	1.84	0.43
45:WE:268:MET:HE1	45:WE:378:ILE:HG22	2.00	0.43
46:WF:154:LYS:HA	46:WF:154:LYS:HD3	1.79	0.43
46:WF:273:LEU:H	46:WF:292:GLN:NE2	2.11	0.43
45:WG:3:GLU:N	45:WG:3:GLU:OE1	2.52	0.43
46:WH:2:ARG:NH1	46:WH:46:ARG:HH22	2.15	0.43
46:WH:238:CYS:SG	46:WH:239:CYS:N	2.92	0.43
46:WJ:108:GLU:O	46:WJ:111:GLU:HG3	2.19	0.43
46:WJ:240:LEU:HD12	46:WJ:249:ASP:HB2	2.01	0.43
46:WJ:328:GLU:HA	46:WJ:331:LEU:HG	2.01	0.43
45:WK:18:ASN:O	45:WK:22:GLU:OE1	2.36	0.43
46:WL:86:ARG:HG2	46:WL:88:ASP:H	1.83	0.43
46:WL:268:ILE:O	46:WL:300:MET:HB2	2.19	0.43
45:CE:69:ASP:OD1	45:CE:75:ILE:HG12	2.18	0.43
7:1G:163:ARG:HA	45:KA:245:ASP:OD2	2.18	0.43
18:1I:28:GLU:OE2	46:JD:216:LYS:HB3	2.18	0.43
21:1L:65:LYS:NZ	45:BI:279:GLU:HG3	2.34	0.43
22:1M:46:LEU:HA	46:IF:78:ALA:O	2.17	0.43
25:1R:258:VAL:HG13	45:CC:41:THR:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:2L:357:ILE:O	34:6R:100:GLN:NE2	2.51	0.43
10:2Q:72:LYS:HD2	35:5S:71:ARG:HD3	1.99	0.43
15:2X:99:VAL:HG12	45:MG:282:TYR:CE2	2.54	0.43
34:4R:226:LYS:NZ	34:4R:227:GLU:OE2	2.51	0.43
34:4R:284:THR:HG22	34:4R:308:LYS:HG2	2.00	0.43
35:4S:98:TYR:OH	35:4S:131:GLY:HA2	2.19	0.43
36:5C:23:LEU:O	36:5C:59:TYR:HA	2.19	0.43
37:5G:144:LEU:O	37:5G:147:GLN:HG3	2.18	0.43
37:5G:154:TYR:CE1	46:NL:35:THR:HG23	2.54	0.43
10:5Q:1:MET:H2	10:5Q:3:LYS:HG2	1.84	0.43
34:5R:383:GLN:HE22	46:DJ:58:ARG:HH12	1.66	0.43
40:6G:229:ASN:HB3	40:6G:230:TYR:CD1	2.54	0.43
40:6G:253:HIS:HA	40:6G:256:LYS:HG2	2.01	0.43
34:6R:207:ASP:O	34:6R:210:GLU:HG3	2.18	0.43
34:7R:149:GLN:HB3	34:7R:159:TYR:CD1	2.54	0.43
45:AC:231:ILE:O	45:AC:235:ILE:HG12	2.19	0.43
45:AC:430:LYS:HD3	45:AC:430:LYS:HA	1.83	0.43
46:AD:51:TYR:HE1	46:AD:61:PRO:HG3	1.83	0.43
46:AD:167:PHE:CZ	46:AD:233:MET:HG2	2.54	0.43
46:AD:257:LEU:HD21	46:AD:314:SER:OG	2.18	0.43
45:AE:224:TYR:HE2	46:AF:246:LEU:HD11	1.84	0.43
45:AE:280:LYS:HB3	45:ME:89:PRO:HG2	2.00	0.43
45:AG:71:GLU:HA	45:AG:72:PRO:HD3	1.89	0.43
46:AH:139:LEU:HD13	46:AH:168:SER:OG	2.19	0.43
46:AH:242:PHE:CD1	46:AH:356:ILE:HG13	2.53	0.43
45:AI:210:TYR:CE1	45:AI:227:LEU:HD11	2.53	0.43
46:AJ:274:THR:HG23	46:AJ:279:GLN:HG3	2.00	0.43
45:AK:120:ASP:O	45:AK:124:LYS:HG2	2.19	0.43
45:BA:186:ASN:OD1	45:BA:187:SER:N	2.51	0.43
45:BA:296:PHE:CE1	45:BA:335:ILE:HG21	2.54	0.43
46:BB:66:MET:HA	46:BB:91:VAL:HG23	2.00	0.43
45:BC:174:SER:HB3	45:BC:207:GLU:OE2	2.18	0.43
45:BE:97:GLU:OE1	45:BE:97:GLU:N	2.52	0.43
46:BF:164:MET:H	46:BF:197:ASP:HB2	1.83	0.43
46:BF:375:GLN:OE1	46:BF:423:GLN:HB3	2.19	0.43
46:BF:395:LEU:O	46:BF:399:THR:HG23	2.19	0.43
46:BH:201:VAL:HG23	46:BH:301:CYS:SG	2.59	0.43
46:BJ:154:LYS:O	46:BJ:157:GLU:HG2	2.18	0.43
46:BJ:372:THR:HA	46:BJ:422:TYR:CE2	2.50	0.43
46:BJ:391:ARG:HA	46:BJ:391:ARG:HD2	1.78	0.43
46:BL:18:ALA:O	46:BL:22:GLU:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BL:390:ARG:CZ	46:BL:390:ARG:HA	2.48	0.43
46:BN:66:MET:HA	46:BN:91:VAL:O	2.19	0.43
45:CA:255:PHE:O	45:CA:259:LEU:HB2	2.19	0.43
46:CB:326:VAL:O	46:CB:330:MET:HG2	2.19	0.43
46:CB:327:ASP:HB3	45:CC:177:VAL:CG2	2.48	0.43
45:CC:320:ARG:HB2	45:CC:358:GLN:O	2.19	0.43
45:CC:387:VAL:HG23	45:CC:390:ARG:NH2	2.33	0.43
46:CD:261:PRO:HD3	45:CE:406:HIS:CD2	2.52	0.43
46:CF:293:MET:SD	46:CF:365:VAL:HG11	2.58	0.43
45:CG:185:TYR:O	45:CG:188:ILE:HG22	2.18	0.43
46:CJ:376:GLU:O	46:CJ:379:LYS:HG3	2.18	0.43
46:CL:48:ASN:OD1	46:CL:48:ASN:N	2.51	0.43
46:CL:173:PRO:HD2	46:CL:380:ARG:NH1	2.33	0.43
46:CN:268:ILE:HG22	46:CN:368:VAL:HG22	2.00	0.43
46:DB:69:GLU:HA	46:DB:70:PRO:HD3	1.88	0.43
46:DB:200:MET:CE	46:DB:266:PHE:HB2	2.47	0.43
46:DD:6:HIS:HB3	46:DD:63:ALA:HB2	2.01	0.43
46:DD:8:GLN:O	46:DD:66:MET:HG3	2.18	0.43
46:DD:25:SER:OG	46:DD:30:ILE:O	2.36	0.43
46:DD:293:MET:SD	46:DD:365:VAL:HG11	2.59	0.43
46:DF:281:TYR:CD2	46:DF:281:TYR:CB	2.84	0.43
45:DG:17:GLY:HA2	45:DG:20:CYS:SG	2.59	0.43
45:DG:260:VAL:HG23	46:DH:397:TRP:HZ2	1.83	0.43
46:DJ:201:VAL:HG23	46:DJ:301:CYS:SG	2.58	0.43
45:DM:171:ILE:HG13	45:DM:204:LEU:HB2	2.01	0.43
46:EB:2:ARG:HG3	46:EB:131:GLN:OE1	2.19	0.43
46:EB:332:ASN:HB3	46:EB:336:LYS:HZ2	1.84	0.43
46:ED:6:HIS:O	46:ED:63:ALA:HA	2.19	0.43
46:ED:275:SER:OG	46:ED:278:SER:HB3	2.18	0.43
46:EF:208:TYR:CE1	46:EF:225:LEU:HD11	2.54	0.43
46:EF:268:ILE:HG22	46:EF:368:VAL:HG22	2.01	0.43
45:EG:156:ARG:HH11	45:EG:156:ARG:HA	1.83	0.43
45:EG:213:CYS:SG	45:EG:222:PRO:HG3	2.58	0.43
46:EH:293:MET:CG	46:EH:365:VAL:HG11	2.49	0.43
45:EK:141:VAL:HG12	45:EK:171:ILE:O	2.18	0.43
45:EM:384:ILE:O	45:EM:387:VAL:HG22	2.19	0.43
45:FE:384:ILE:O	45:FE:387:VAL:HG22	2.19	0.43
46:FF:117:LEU:CD2	46:FF:121:ARG:HD2	2.48	0.43
46:FH:403:MET:HG3	46:FH:407:GLU:OE1	2.19	0.43
46:FL:270:PHE:HD2	46:FL:273:LEU:HD21	1.84	0.43
46:FL:293:MET:HE1	46:FL:315:ALA:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:FL:391:ARG:HD2	46:FL:391:ARG:HA	1.81	0.43
45:GC:171:ILE:HG23	45:GC:204:LEU:O	2.19	0.43
45:GC:320:ARG:NH2	45:GC:360:PRO:HA	2.34	0.43
46:GD:262:ARG:NH1	46:GD:421:GLU:OE1	2.51	0.43
45:GG:123:ARG:NH2	45:GG:124:LYS:HB2	2.34	0.43
46:GJ:66:MET:HE3	46:GJ:147:MET:HG3	1.99	0.43
45:GK:70:LEU:HD12	45:GK:145:THR:HG22	2.01	0.43
46:GL:354:CYS:SG	46:GL:356:ILE:HG22	2.58	0.43
45:GM:88:HIS:ND1	45:GM:90:GLU:HG2	2.34	0.43
46:HB:105:HIS:CE1	46:HB:150:LEU:HD12	2.53	0.43
45:HC:221:ARG:HH22	46:HD:322:SER:H	1.67	0.43
45:HC:345:ASP:OD2	45:HC:438:GLU:HG2	2.19	0.43
45:HC:377:MET:SD	45:HC:379:SER:HB2	2.59	0.43
46:HD:154:LYS:O	46:HD:157:GLU:HG2	2.18	0.43
46:HD:405:GLU:HA	46:HD:408:PHE:HD2	1.83	0.43
46:HJ:162:ARG:HA	46:HJ:162:ARG:HD3	1.80	0.43
46:HJ:190:HIS:CD2	46:HJ:414:ASN:HD22	2.37	0.43
45:IA:115:VAL:O	45:IA:119:LEU:HG	2.19	0.43
45:IA:352:LYS:NZ	46:ID:179:VAL:H	2.14	0.43
45:IC:96:LYS:NZ	46:ID:129:CYS:SG	2.65	0.43
46:IF:66:MET:HE1	46:IF:147:MET:HG2	2.00	0.43
46:IF:113:ILE:HA	46:IF:116:VAL:HG12	2.01	0.43
46:IF:134:GLN:HA	46:IF:165:GLU:HB3	2.00	0.43
46:IH:318:ARG:HD2	46:IH:354:CYS:HB3	2.01	0.43
46:IN:313:ALA:HB1	46:IN:367:PHE:HE1	1.83	0.43
45:JA:352:LYS:NZ	46:JD:99:ASN:OD1	2.51	0.43
46:JH:12:CYS:SG	46:JH:169:VAL:HG21	2.59	0.43
46:JH:409:THR:O	46:JH:412:GLU:HG3	2.19	0.43
45:JI:10:GLY:O	45:JI:14:ILE:HG12	2.19	0.43
46:JJ:105:HIS:HD1	46:JJ:106:TYR:HD1	1.67	0.43
46:JL:332:ASN:O	46:JL:336:LYS:HE2	2.17	0.43
46:JN:207:LEU:HG	46:JN:225:LEU:HD22	2.01	0.43
46:KB:77:ARG:HD3	46:KB:90:PHE:CZ	2.53	0.43
45:KG:152:LEU:HD12	45:KG:152:LEU:HA	1.89	0.43
45:KG:335:ILE:HA	45:KG:338:LYS:NZ	2.33	0.43
46:KH:263:LEU:HG	46:KH:422:TYR:CE1	2.54	0.43
45:KI:90:GLU:O	45:KI:90:GLU:HG3	2.19	0.43
45:KK:103:PHE:HB2	45:KK:186:ASN:HB3	2.01	0.43
46:KN:151:LEU:O	46:KN:155:VAL:HG22	2.19	0.43
45:LA:90:GLU:O	45:LA:121:ARG:NH1	2.52	0.43
46:LB:256:ASN:HD22	46:LB:350:LYS:HD2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LE:133:GLN:HB3	45:LE:252:ILE:HD13	2.00	0.43
46:LF:68:LEU:HD12	46:LF:97:ALA:HB2	1.99	0.43
46:LF:87:PRO:HA	46:LF:90:PHE:HD2	1.84	0.43
45:LG:55:GLU:OE2	45:LG:56:THR:N	2.52	0.43
45:LG:331:SER:O	45:LG:335:ILE:HG12	2.19	0.43
45:LI:224:TYR:HE2	46:LJ:246:LEU:HD11	1.84	0.43
45:LI:408:TYR:HB3	45:LI:413:MET:CE	2.49	0.43
45:LK:384:ILE:O	45:LK:387:VAL:HG22	2.18	0.43
46:LN:122:LYS:HE2	46:MN:291:GLN:HE22	1.84	0.43
46:LN:130:LEU:HD12	46:LN:131:GLN:N	2.34	0.43
45:MA:109:THR:O	45:MA:112:LYS:NZ	2.50	0.43
45:MA:387:VAL:O	45:MA:391:LEU:HD23	2.19	0.43
45:MC:345:ASP:OD1	45:MC:346:TRP:N	2.52	0.43
46:MD:229:VAL:HG12	46:MD:233:MET:CE	2.49	0.43
46:MD:257:LEU:HD23	46:MD:266:PHE:CZ	2.53	0.43
46:MD:330:MET:HE2	46:MD:330:MET:HB3	1.90	0.43
46:MJ:222:TYR:HD2	49:MJ:501:GDP:C6	2.37	0.43
45:MM:224:TYR:HE2	46:MN:323:THR:HG21	1.84	0.43
46:MN:67:ASP:OD1	46:MN:68:LEU:N	2.51	0.43
45:NE:265:ILE:HG22	45:NE:380:ASN:HD21	1.84	0.43
45:NE:330:ALA:O	45:NE:334:THR:HG23	2.19	0.43
45:NE:371:VAL:HG22	45:NE:373:ARG:H	1.84	0.43
46:NH:322:SER:HB3	46:NH:325:GLU:OE1	2.17	0.43
45:NI:398:MET:CE	46:NJ:345:ILE:HD12	2.49	0.43
46:NJ:164:MET:N	46:NJ:197:ASP:OD1	2.51	0.43
45:NK:177:VAL:HG12	46:NL:331:LEU:HD11	2.01	0.43
45:NK:345:ASP:OD1	45:NK:346:TRP:N	2.52	0.43
45:OA:332:ILE:HG23	45:OA:351:PHE:CE2	2.54	0.43
46:OB:217:LEU:H	46:OB:217:LEU:HD23	1.84	0.43
45:OC:2:ARG:HG3	45:OC:133:GLN:CD	2.38	0.43
45:OC:182:VAL:O	45:OC:182:VAL:HG12	2.18	0.43
45:OE:190:SER:O	45:OE:194:LEU:HG	2.19	0.43
45:OE:268:MET:HG3	45:OE:380:ASN:HB2	2.01	0.43
46:OJ:117:LEU:HA	46:OJ:120:VAL:HG12	1.99	0.43
45:OK:384:ILE:O	45:OK:387:VAL:HG12	2.19	0.43
45:OK:434:GLU:O	45:OK:437:ILE:HG22	2.18	0.43
46:ON:201:VAL:HG12	46:ON:266:PHE:O	2.19	0.43
45:PA:14:ILE:HG13	45:PA:67:PHE:CD1	2.54	0.43
45:PA:30:ILE:HD11	45:PA:34:GLY:C	2.38	0.43
45:PA:268:MET:HE2	45:PA:380:ASN:HB2	2.00	0.43
45:PA:377:MET:HE3	45:PA:378:ILE:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:430:LYS:HA	45:PA:433:GLU:HG2	1.99	0.43
46:PB:312:THR:HG22	46:PB:370:ASN:HB3	2.00	0.43
46:PD:164:MET:SD	46:PD:196:ALA:HA	2.59	0.43
46:PD:322:SER:OG	46:PD:325:GLU:OE1	2.34	0.43
45:PE:32:PRO:HB3	45:PE:83:TYR:HE1	1.84	0.43
45:PE:117:LEU:O	45:PE:121:ARG:HG2	2.17	0.43
46:PF:186:THR:HA	46:PF:189:VAL:HG12	2.01	0.43
45:PG:10:GLY:O	45:PG:14:ILE:HG12	2.18	0.43
46:PL:145:SER:HB2	46:PL:188:SER:HB3	2.01	0.43
46:PL:272:PRO:HD3	46:PL:289:LEU:HD11	2.00	0.43
46:PN:215:LEU:O	46:PN:215:LEU:HD23	2.18	0.43
45:QA:346:TRP:HB3	46:QB:390:ARG:CZ	2.48	0.43
46:QB:147:MET:O	46:QB:150:LEU:HG	2.19	0.43
45:QC:326:LYS:HE2	46:QD:220:PRO:HD2	1.99	0.43
46:QD:2:ARG:NH1	45:QE:72:PRO:HD2	2.33	0.43
45:QE:174:SER:HB3	45:QE:175:PRO:HD2	2.01	0.43
45:QG:386:GLU:O	45:QG:390:ARG:HG2	2.19	0.43
46:QH:201:VAL:HG23	46:QH:301:CYS:SG	2.58	0.43
45:QI:242:LEU:HD21	45:QI:251:ASP:HA	2.01	0.43
45:QI:288:VAL:HG21	45:QI:327:ASP:HB3	1.99	0.43
46:QJ:139:LEU:HD13	46:QJ:168:SER:HB3	2.00	0.43
45:QK:339:ARG:HH21	45:QK:342:GLN:HB3	1.83	0.43
46:QL:252:LYS:HA	45:QM:100:ALA:HB1	2.01	0.43
46:QL:274:THR:HB	46:QL:282:ARG:NH1	2.33	0.43
46:QL:376:GLU:O	46:QL:380:ARG:HG2	2.19	0.43
45:QM:17:GLY:O	45:QM:21:TRP:HE3	2.02	0.43
45:RC:28:HIS:NE2	45:RC:243:ARG:HD2	2.34	0.43
46:RD:321:MET:N	46:RD:321:MET:SD	2.92	0.43
45:RE:55:GLU:CD	45:RE:57:GLY:H	2.22	0.43
46:RF:267:MET:HE2	46:RF:299:MET:HB3	2.01	0.43
46:RH:313:ALA:HB1	46:RH:367:PHE:CE1	2.54	0.43
46:RJ:255:VAL:HG21	45:RK:100:ALA:O	2.19	0.43
45:RM:77:GLU:HA	45:RM:80:THR:OG1	2.18	0.43
45:RM:102:ASN:HD22	45:RM:105:ARG:HG2	1.82	0.43
45:RM:212:ILE:HD11	45:RM:300:ASN:HA	1.99	0.43
45:SA:211:ASP:HA	45:SA:214:ARG:HG3	2.01	0.43
46:SB:288:GLU:HG3	46:SB:291:GLN:HE21	1.84	0.43
45:SC:64:ARG:NH1	45:SC:129:CYS:SG	2.92	0.43
45:SC:127:ASP:OD1	45:SC:128:ASN:N	2.51	0.43
45:SC:274:PRO:HD3	45:SC:291:ILE:HD11	1.99	0.43
45:SE:34:GLY:O	45:SE:60:LYS:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:175:VAL:CG2	46:SF:205:GLU:HB2	2.48	0.43
45:SG:317:MET:HB3	45:SG:377:MET:HG2	2.00	0.43
45:SI:80:THR:HA	45:SI:84:ARG:NH1	2.34	0.43
45:SI:322:ASP:OD1	45:SI:373:ARG:NH1	2.50	0.43
46:SL:22:GLU:HA	46:SL:81:PHE:CD2	2.54	0.43
46:TB:52:ASN:OD1	46:TB:62:ARG:NH2	2.52	0.43
46:TD:1:MET:O	46:TD:2:ARG:HG2	2.19	0.43
45:TE:174:SER:OG	45:TE:207:GLU:HB2	2.19	0.43
46:TF:207:LEU:HA	46:TF:210:ILE:HG12	2.01	0.43
46:TH:31:ASP:OD2	46:TH:33:THR:OG1	2.37	0.43
45:TK:2:ARG:HA	45:TK:133:GLN:HE22	1.83	0.43
45:TK:141:VAL:HG22	45:TK:187:SER:HA	2.00	0.43
46:TL:207:LEU:HB3	46:TL:225:LEU:HD22	2.01	0.43
46:TL:233:MET:O	46:TL:236:VAL:HG12	2.19	0.43
46:TL:375:GLN:HB3	46:TL:422:TYR:CE2	2.53	0.43
45:TM:169:PHE:HD1	45:TM:204:LEU:HD11	1.84	0.43
46:TN:97:ALA:HB3	46:TN:143:THR:HB	1.99	0.43
46:TN:313:ALA:HB1	46:TN:367:PHE:HE1	1.83	0.43
45:UA:141:VAL:HG12	45:UA:171:ILE:O	2.19	0.43
46:UD:70:PRO:HG3	46:UD:92:PHE:HB2	2.00	0.43
45:UE:211:ASP:O	45:UE:214:ARG:HG3	2.19	0.43
46:UF:1:MET:O	46:UF:2:ARG:HG2	2.18	0.43
46:UF:124:ALA:HB1	46:UF:130:LEU:HD11	2.01	0.43
45:UG:263:PRO:HB2	45:UG:264:ARG:NH2	2.33	0.43
46:UH:193:VAL:HA	46:UH:264:HIS:HE1	1.83	0.43
46:UJ:107:THR:HG1	46:UJ:108:GLU:N	2.17	0.43
45:UK:72:PRO:HG3	45:UK:95:GLY:O	2.19	0.43
46:UL:130:LEU:H	46:UL:130:LEU:HD23	1.83	0.43
45:UM:133:GLN:O	45:UM:165:SER:OG	2.36	0.43
45:UM:324:VAL:CG1	45:UM:326:LYS:HG2	2.49	0.43
45:VA:111:GLY:O	45:VA:115:VAL:HG13	2.18	0.43
45:VA:317:MET:SD	45:VA:377:MET:HG2	2.58	0.43
46:VB:28:HIS:C	46:VB:43:GLN:HE21	2.23	0.43
46:VB:163:ILE:HD11	46:VB:251:ARG:HG3	2.01	0.43
45:VC:8:HIS:ND1	45:VC:67:PHE:HE2	2.17	0.43
45:VE:147:SER:HB2	45:VE:190:SER:HB3	2.00	0.43
46:VF:21:TRP:CZ2	46:VF:63:ALA:HB2	2.54	0.43
45:VI:150:GLY:O	45:VI:154:LEU:HD23	2.19	0.43
46:VJ:105:HIS:CE1	46:VJ:150:LEU:HD12	2.54	0.43
46:VJ:325:GLU:HA	46:VJ:328:GLU:CG	2.44	0.43
46:VJ:384:GLN:O	46:VJ:388:MET:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VL:384:GLN:O	46:VL:388:MET:HG2	2.19	0.43
45:VM:88:HIS:ND1	45:VM:90:GLU:HG2	2.34	0.43
45:VM:408:TYR:HB3	45:VM:413:MET:SD	2.58	0.43
46:VN:164:MET:SD	46:VN:196:ALA:HA	2.59	0.43
46:VN:389:PHE:HD2	46:VN:390:ARG:HH21	1.66	0.43
46:WB:267:MET:CE	46:WB:301:CYS:HB2	2.49	0.43
46:WB:276:ARG:HA	46:WB:279:GLN:HE22	1.84	0.43
45:WC:98:ASP:OD1	45:WC:99:ALA:N	2.51	0.43
45:WE:175:PRO:HA	45:WE:390:ARG:CZ	2.49	0.43
45:WE:210:TYR:CE1	45:WE:227:LEU:HD21	2.54	0.43
46:WF:68:LEU:HD23	46:WF:143:THR:OG1	2.19	0.43
46:WF:258:ILE:O	46:WF:258:ILE:HG13	2.18	0.43
46:WF:383:GLU:HA	46:WF:386:THR:HG22	2.00	0.43
46:WH:210:ILE:O	46:WH:214:THR:OG1	2.25	0.43
45:WI:71:GLU:HA	45:WI:72:PRO:HD3	1.90	0.43
45:WI:324:VAL:HG12	45:WI:326:LYS:H	1.84	0.43
45:WI:326:LYS:HD2	46:WL:208:TYR:CB	2.46	0.43
45:WI:398:MET:N	45:WI:398:MET:HE2	2.34	0.43
46:WL:324:LYS:HB3	46:WL:324:LYS:HE2	1.87	0.43
45:DC:75:ILE:O	45:DC:79:ARG:HG2	2.18	0.43
4:OD:187:PHE:HE1	46:FB:320:ARG:HD3	1.84	0.43
1:1A:39:TYR:OH	45:ME:78:VAL:HG13	2.19	0.43
25:1R:390:ASP:OD2	46:ED:219:THR:OG1	2.27	0.43
1:2A:3:GLN:HE21	34:5R:7:LYS:C	2.21	0.43
23:2O:210:ILE:HG12	45:VI:279:GLU:OE2	2.18	0.43
25:2R:112:GLU:HG3	46:BJ:284:LEU:HD11	2.01	0.43
11:3S:42:ASN:ND2	45:WK:125:LEU:HA	2.34	0.43
34:4R:432:SER:HG	34:4R:433:GLN:H	1.60	0.43
35:4S:65:PHE:CE1	35:4S:74:LEU:HD21	2.54	0.43
15:4X:39:LYS:HE3	15:4X:39:LYS:HB2	1.73	0.43
37:5F:134:ILE:HA	37:5F:137:VAL:CG1	2.42	0.43
34:5R:152:LYS:HG2	34:5R:160:TYR:CE1	2.53	0.43
39:6F:26:TRP:CE3	39:6F:30:ARG:HD3	2.53	0.43
40:6G:94:VAL:HG11	40:6G:97:ASP:OD2	2.19	0.43
10:6Q:25:TRP:HE3	10:6Q:59:ILE:HG22	1.83	0.43
34:7R:116:CYS:HB3	34:7R:131:GLU:HB3	2.00	0.43
46:AB:87:PRO:HA	46:AB:90:PHE:CD2	2.53	0.43
45:AC:5:ILE:HB	45:AC:135:PHE:CD1	2.53	0.43
45:AC:19:ALA:HA	45:AC:22:GLU:OE1	2.19	0.43
46:AD:154:LYS:O	46:AD:157:GLU:HG3	2.19	0.43
46:AD:350:LYS:HA	46:AD:350:LYS:HD2	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AE:5:ILE:HB	45:AE:135:PHE:CD1	2.53	0.43
45:AE:241:SER:OG	45:AE:250:VAL:O	2.22	0.43
45:AG:147:SER:HB2	45:AG:190:SER:HB3	2.00	0.43
45:AI:71:GLU:OE2	46:AJ:247:ASN:ND2	2.51	0.43
45:AK:32:PRO:HB3	45:AK:83:TYR:HE1	1.84	0.43
46:AN:3:GLU:OE2	46:AN:127:CYS:HB2	2.19	0.43
46:AN:102:ALA:HB2	46:AN:403:MET:HE2	2.01	0.43
46:AN:233:MET:O	46:AN:236:VAL:HG12	2.19	0.43
46:AN:288:GLU:O	46:AN:291:GLN:HG3	2.19	0.43
45:BA:217:LEU:HB3	45:BA:219:ILE:HG23	2.01	0.43
46:BB:9:GLY:HA2	46:BB:66:MET:O	2.19	0.43
46:BB:116:VAL:HA	46:BB:119:VAL:HG12	2.00	0.43
46:BB:316:LEU:HB2	46:BB:366:THR:HG23	2.00	0.43
46:BB:391:ARG:HA	46:BB:391:ARG:HD2	1.78	0.43
45:BE:101:ASN:ND2	45:BE:143:GLY:HA2	2.32	0.43
45:BE:254:GLU:OE2	46:BH:98:GLY:HA2	2.19	0.43
46:BF:232:ALA:HB1	46:BF:268:ILE:HD12	2.01	0.43
45:BG:174:SER:HB2	45:BG:177:VAL:O	2.19	0.43
46:BH:68:LEU:HA	46:BH:93:GLY:H	1.83	0.43
46:BH:345:ILE:HG13	46:BH:345:ILE:O	2.19	0.43
45:BI:91:GLN:CG	45:BI:121:ARG:HH12	2.30	0.43
45:BI:103:PHE:CD2	45:BI:189:LEU:HD13	2.54	0.43
46:BJ:150:LEU:O	46:BJ:154:LYS:HG2	2.18	0.43
45:BK:384:ILE:O	45:BK:387:VAL:HG22	2.19	0.43
46:CB:116:VAL:HA	46:CB:119:VAL:HG12	2.00	0.43
46:CB:379:LYS:O	46:CB:382:ALA:N	2.51	0.43
45:CC:196:GLU:HG2	45:CC:197:HIS:CD2	2.54	0.43
46:CF:347:ASN:OD1	45:CG:178:SER:OG	2.24	0.43
45:CG:239:THR:HG23	45:CG:243:ARG:HE	1.84	0.43
46:CH:73:MET:HB2	46:CH:90:PHE:HE1	1.81	0.43
45:CI:288:VAL:HA	45:CI:291:ILE:HG12	2.00	0.43
46:CL:20:PHE:O	46:CL:24:ILE:HG12	2.18	0.43
46:CL:122:LYS:HG3	46:CL:123:GLU:OE1	2.18	0.43
46:CL:326:VAL:O	46:CL:330:MET:HG2	2.19	0.43
46:CN:73:MET:HE1	46:CN:92:PHE:HB3	2.00	0.43
46:CN:139:LEU:HD13	46:CN:168:SER:HB3	2.00	0.43
46:CN:200:MET:SD	46:CN:268:ILE:HD13	2.59	0.43
46:DD:390:ARG:HA	46:DD:390:ARG:HH11	1.84	0.43
46:DF:289:LEU:HD23	46:DF:289:LEU:HA	1.85	0.43
46:DH:58:ARG:CZ	46:EH:281:TYR:HE1	2.32	0.43
46:DH:258:ILE:HG13	46:DH:258:ILE:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:141:VAL:HG11	45:DK:172:TYR:HA	2.00	0.43
46:DL:31:ASP:HB3	46:DL:37:HIS:CD2	2.54	0.43
45:DM:167:LEU:HG	45:DM:200:VAL:HB	2.00	0.43
46:DN:100:ASN:ND2	46:DN:102:ALA:HB3	2.34	0.43
45:EC:75:ILE:HG21	45:EC:94:SER:HB2	2.00	0.43
46:ED:118:ASP:O	46:ED:122:LYS:HG3	2.18	0.43
46:ED:267:MET:CE	46:ED:301:CYS:HB2	2.49	0.43
46:ED:407:GLU:O	46:ED:410:GLU:HG3	2.19	0.43
45:EE:10:GLY:O	45:EE:14:ILE:HG12	2.18	0.43
45:EE:107:HIS:ND1	45:EE:107:HIS:O	2.52	0.43
46:EF:254:ALA:O	46:EF:258:ILE:HG12	2.18	0.43
46:EF:288:GLU:HA	46:EF:291:GLN:HG3	2.00	0.43
46:EH:32:PRO:HA	46:EH:84:LEU:HD11	2.00	0.43
46:EH:233:MET:O	46:EH:236:VAL:HG12	2.19	0.43
45:EI:223:THR:HG23	45:EI:225:THR:H	1.83	0.43
45:EK:318:MET:HB2	45:EK:376:CYS:SG	2.58	0.43
45:EM:265:ILE:HG23	45:EM:432:TYR:HE1	1.83	0.43
45:EM:288:VAL:O	45:EM:292:THR:HG23	2.19	0.43
46:EN:99:ASN:HA	46:EN:142:GLY:H	1.84	0.43
45:FA:74:VAL:HA	45:FA:77:GLU:OE2	2.18	0.43
45:FA:244:PHE:CE1	45:FA:358:GLN:HG3	2.54	0.43
45:FC:296:PHE:CE2	45:FC:335:ILE:HG21	2.53	0.43
46:FD:288:GLU:O	46:FD:291:GLN:HG3	2.19	0.43
45:FE:256:GLN:OE1	46:FH:397:TRP:NE1	2.48	0.43
45:FE:288:VAL:HA	45:FE:291:ILE:HG12	2.00	0.43
46:FF:394:PHE:HA	46:FF:397:TRP:CZ3	2.53	0.43
46:FH:396:HIS:HA	46:FH:399:THR:OG1	2.19	0.43
46:FJ:32:PRO:HA	46:FJ:84:LEU:HD11	2.00	0.43
46:FJ:68:LEU:HD23	46:FJ:143:THR:OG1	2.19	0.43
45:FK:181:VAL:CG1	46:FL:348:ASN:HA	2.49	0.43
45:FK:332:ILE:HG22	45:FK:336:LYS:NZ	2.33	0.43
46:FL:86:ARG:HH11	46:GL:281:TYR:HB3	1.83	0.43
46:GB:391:ARG:HD2	46:GB:391:ARG:HA	1.77	0.43
45:GC:316:SER:HA	45:GC:352:LYS:O	2.19	0.43
46:GD:19:LYS:HG3	46:GD:226:ASN:HB2	1.99	0.43
45:GE:224:TYR:CD2	47:GE:501:GTP:C6	3.07	0.43
46:GH:208:TYR:CE2	46:GH:225:LEU:HD11	2.54	0.43
46:GH:345:ILE:HG23	46:GH:345:ILE:O	2.19	0.43
45:GI:219:ILE:HG22	45:GI:221:ARG:H	1.83	0.43
45:GM:88:HIS:HB3	45:GM:91:GLN:HG2	2.00	0.43
46:HB:100:ASN:HD21	46:HB:102:ALA:HB3	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HD:70:PRO:HG3	46:HD:92:PHE:CD1	2.54	0.43
46:HD:86:ARG:HG2	46:HD:88:ASP:H	1.83	0.43
46:HF:69:GLU:CD	46:HF:71:GLY:H	2.22	0.43
45:HG:71:GLU:OE1	46:HH:247:ASN:ND2	2.52	0.43
45:HG:407:TRP:HH2	46:HH:254:ALA:HB1	1.84	0.43
46:HJ:336:LYS:HA	46:HJ:336:LYS:HD3	1.75	0.43
45:HK:241:SER:OG	45:HK:250:VAL:O	2.23	0.43
46:HN:377:MET:O	46:HN:380:ARG:HG2	2.19	0.43
46:ID:135:ILE:HD12	46:ID:152:ILE:HD11	2.01	0.43
46:IF:268:ILE:HG22	46:IF:368:VAL:HG13	2.00	0.43
45:IG:345:ASP:OD2	45:IG:346:TRP:N	2.51	0.43
45:IG:401:LYS:HB2	45:IG:401:LYS:HE3	1.80	0.43
45:II:141:VAL:HG12	45:II:171:ILE:O	2.18	0.43
45:II:153:LEU:O	45:II:157:LEU:HD23	2.19	0.43
45:IM:118:CYS:O	45:IM:122:ILE:HG12	2.18	0.43
46:IN:117:LEU:HD13	46:IN:121:ARG:HH22	1.84	0.43
45:JA:205:ASP:OD2	45:JA:304:LYS:N	2.34	0.43
45:JA:306:ASP:OD1	45:JA:308:ARG:NE	2.31	0.43
45:JA:338:LYS:HG3	45:JA:340:THR:HG22	2.00	0.43
45:JA:434:GLU:O	45:JA:437:ILE:HG12	2.19	0.43
46:JD:113:ILE:HA	46:JD:116:VAL:HG12	2.00	0.43
46:JD:161:ASP:OD1	46:JD:161:ASP:N	2.46	0.43
45:JE:258:ASN:ND2	45:JE:352:LYS:HE3	2.34	0.43
46:JF:187:LEU:HD21	46:JF:408:PHE:CE2	2.50	0.43
46:JF:324:LYS:HE2	46:JF:324:LYS:HB2	1.72	0.43
45:JG:356:ASN:OD1	45:JG:357:TYR:N	2.52	0.43
45:JI:36:MET:O	45:JI:38:SER:N	2.46	0.43
45:JI:68:LEU:HD21	45:JI:118:CYS:SG	2.59	0.43
46:JL:198:GLU:OE2	46:JL:254:ALA:HB2	2.19	0.43
45:KA:251:ASP:HB3	45:KA:253:THR:HG22	2.01	0.43
45:KE:406:HIS:CD2	45:KE:407:TRP:CD1	3.06	0.43
45:KG:51:THR:HG21	45:KG:243:ARG:HD3	2.01	0.43
45:LA:320:ARG:HA	45:LA:356:ASN:O	2.18	0.43
46:LD:380:ARG:HB3	46:LD:380:ARG:CZ	2.49	0.43
46:LH:401:GLU:OE2	46:LH:401:GLU:N	2.51	0.43
45:LI:175:PRO:HD2	45:LI:207:GLU:OE2	2.19	0.43
45:LI:222:PRO:HD2	46:LJ:324:LYS:HE3	2.01	0.43
45:LI:301:MET:HE3	45:LI:302:MET:H	1.84	0.43
45:LI:387:VAL:HG12	45:LI:390:ARG:NH2	2.33	0.43
46:LJ:36:TYR:C	46:LJ:37:HIS:HD1	2.22	0.43
45:LK:88:HIS:HB3	45:LK:91:GLN:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LK:274:PRO:HG3	45:LK:286:LEU:HD12	2.00	0.43
46:LL:192:LEU:HD21	46:LL:199:CYS:SG	2.58	0.43
46:LL:404:ASP:N	46:LL:407:GLU:OE1	2.52	0.43
45:ME:194:LEU:O	45:ME:198:THR:HG22	2.19	0.43
46:MH:200:MET:CE	46:MH:268:ILE:HG21	2.49	0.43
46:ML:101:TRP:HB2	46:ML:184:ASN:OD1	2.19	0.43
46:MN:318:ARG:HE	46:MN:358:PRO:HG3	1.83	0.43
45:NA:90:GLU:OE1	45:OA:280:LYS:HE2	2.18	0.43
45:NC:2:ARG:O	45:NC:51:THR:HA	2.19	0.43
46:ND:375:GLN:NE2	46:ND:426:GLN:HE22	2.15	0.43
46:NJ:294:PHE:CE2	46:NJ:333:VAL:HG11	2.54	0.43
45:NM:175:PRO:HD2	45:NM:207:GLU:OE2	2.19	0.43
45:NM:406:HIS:CD2	45:NM:407:TRP:CD1	3.06	0.43
46:NN:405:GLU:CD	46:NN:405:GLU:H	2.22	0.43
46:OB:210:ILE:HD13	46:OB:297:LYS:O	2.19	0.43
46:OD:9:GLY:HA2	46:OD:66:MET:O	2.19	0.43
45:OE:2:ARG:O	45:OE:51:THR:HA	2.19	0.43
45:OE:301:MET:N	45:OE:301:MET:SD	2.92	0.43
46:OF:186:THR:HA	46:OF:189:VAL:HG12	2.01	0.43
46:OF:201:VAL:HG23	46:OF:301:CYS:SG	2.59	0.43
45:OI:137:VAL:HG23	45:OI:168:GLY:HA2	2.01	0.43
45:OI:224:TYR:CD2	47:OI:501:GTP:C6	3.06	0.43
45:OI:390:ARG:HG3	45:OI:391:LEU:N	2.34	0.43
46:OL:3:GLU:N	46:OL:3:GLU:OE1	2.51	0.43
45:OM:394:LYS:HG2	46:ON:346:PRO:HG3	2.00	0.43
45:PA:203:MET:HG3	45:PA:384:ILE:HD11	2.01	0.43
45:PC:60:LYS:HZ1	45:PC:86:LEU:HD12	1.83	0.43
45:PG:88:HIS:ND1	45:PG:90:GLU:HG3	2.33	0.43
46:PH:153:SER:HA	46:PH:195:ASN:ND2	2.34	0.43
46:PL:341:PHE:HD2	46:PL:348:ASN:HD21	1.67	0.43
45:QA:387:VAL:HA	45:QA:390:ARG:HG2	2.00	0.43
46:QD:63:ALA:O	46:QD:89:ASN:ND2	2.47	0.43
46:QF:239:CYS:SG	46:QF:247:ASN:HA	2.58	0.43
45:QG:47:ASP:HB3	45:QG:48:ALA:H	1.71	0.43
45:QG:56:THR:HG23	45:QG:58:ALA:H	1.84	0.43
45:QG:326:LYS:HZ2	46:QH:220:PRO:HD2	1.84	0.43
46:QL:49:VAL:HG23	46:QL:50:TYR:CD2	2.54	0.43
46:QL:156:ARG:NH2	46:QL:160:PRO:O	2.52	0.43
45:QM:288:VAL:HA	45:QM:291:ILE:HG12	2.00	0.43
46:QN:201:VAL:HG23	46:QN:301:CYS:SG	2.58	0.43
45:RA:312:TYR:HE1	45:RA:341:ILE:HG23	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:202:ILE:HG13	46:RB:300:MET:CE	2.49	0.43
46:RF:350:LYS:HA	45:RG:179:THR:O	2.19	0.43
46:RH:8:GLN:HE22	46:RH:17:GLY:HA3	1.84	0.43
46:RH:222:TYR:CD2	46:RH:225:LEU:HD21	2.54	0.43
46:RJ:8:GLN:HE21	46:RJ:14:ASN:HA	1.84	0.43
45:RK:63:PRO:HG2	45:RK:87:PHE:HD1	1.84	0.43
46:RL:182:PRO:O	46:RL:186:THR:HG23	2.18	0.43
46:RL:258:ILE:HB	45:RM:407:TRP:CH2	2.53	0.43
46:RL:268:ILE:H	46:RL:299:MET:HE3	1.84	0.43
45:SA:66:VAL:HG11	45:SA:122:ILE:HD11	2.00	0.43
45:SA:292:THR:HB	45:SA:319:TYR:OH	2.19	0.43
46:SD:375:GLN:HA	46:SD:378:PHE:HD1	1.84	0.43
45:SE:275:ILE:HA	45:SE:368:LEU:HD11	2.00	0.43
46:SF:252:LYS:HA	46:SF:255:VAL:HG22	2.01	0.43
46:SF:293:MET:HE1	46:SF:367:PHE:HB3	2.00	0.43
46:SF:372:THR:HA	46:SF:422:TYR:CE2	2.54	0.43
46:SH:122:LYS:HD3	46:SH:122:LYS:HA	1.71	0.43
46:SH:214:THR:OG1	46:SH:215:LEU:N	2.52	0.43
46:SH:215:LEU:HD22	46:SH:217:LEU:HB2	2.01	0.43
46:SH:255:VAL:HG11	45:SI:100:ALA:O	2.19	0.43
45:SI:107:HIS:ND1	45:SI:107:HIS:O	2.52	0.43
45:SI:150:GLY:O	45:SI:154:LEU:HD23	2.18	0.43
46:SJ:325:GLU:O	46:SJ:328:GLU:HG3	2.18	0.43
45:SK:371:VAL:HG12	45:SK:373:ARG:H	1.84	0.43
45:SK:429:GLU:O	45:SK:433:GLU:OE1	2.36	0.43
46:SL:99:ASN:HA	46:SL:142:GLY:H	1.83	0.43
46:SN:9:GLY:HA2	46:SN:66:MET:O	2.19	0.43
46:TB:31:ASP:OD2	46:TB:37:HIS:ND1	2.52	0.43
46:TB:101:TRP:CE3	46:TB:187:LEU:HD13	2.54	0.43
45:TC:51:THR:HG22	45:TC:52:PHE:HD2	1.82	0.43
45:TC:371:VAL:HG12	45:TC:373:ARG:H	1.84	0.43
46:TF:8:GLN:HE21	46:TF:14:ASN:HA	1.83	0.43
46:TF:150:LEU:HD23	46:TF:154:LYS:NZ	2.33	0.43
46:TH:21:TRP:CZ3	46:TH:61:PRO:HB3	2.53	0.43
45:TI:71:GLU:HA	45:TI:72:PRO:HD3	1.90	0.43
46:TL:110:ALA:O	46:TL:113:ILE:HG22	2.19	0.43
45:UA:284:GLU:HG3	45:UA:286:LEU:HD22	2.00	0.43
46:UB:207:LEU:HD13	46:UB:225:LEU:HB3	2.00	0.43
46:UD:255:VAL:HG21	45:UE:100:ALA:O	2.19	0.43
45:UE:192:HIS:CD2	45:UE:421:ALA:HA	2.53	0.43
46:UF:45:GLU:OE1	46:UF:45:GLU:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UF:274:THR:HG23	46:UF:279:GLN:HE22	1.83	0.43
46:UJ:287:PRO:HA	46:UJ:290:THR:HG22	2.00	0.43
46:UJ:380:ARG:HA	46:UJ:383:GLU:CD	2.39	0.43
46:UJ:420:SER:O	46:UJ:423:GLN:HG3	2.18	0.43
46:UL:1:MET:O	46:UL:2:ARG:HG2	2.18	0.43
45:UM:171:ILE:O	45:UM:171:ILE:HG13	2.18	0.43
45:VC:384:ILE:O	45:VC:387:VAL:HG22	2.19	0.43
45:VE:98:ASP:OD2	46:VF:252:LYS:NZ	2.51	0.43
46:VH:303:ALA:HB2	46:VH:377:MET:HE3	2.01	0.43
46:VJ:217:LEU:O	46:VJ:220:PRO:HD3	2.18	0.43
45:VK:22:GLU:O	45:VK:26:LEU:HD23	2.19	0.43
45:VK:319:TYR:HB3	45:VK:323:VAL:HG11	2.00	0.43
46:VN:156:ARG:NH1	46:VN:162:ARG:O	2.52	0.43
45:WA:324:VAL:HB	45:WA:327:ASP:OD1	2.19	0.43
45:WC:41:THR:CG2	45:WC:42:ILE:H	2.26	0.43
46:WD:42:LEU:O	46:WD:45:GLU:HG2	2.19	0.43
46:WD:293:MET:HG3	46:WD:367:PHE:HB2	2.01	0.43
45:WG:10:GLY:O	45:WG:14:ILE:HG12	2.17	0.43
45:WG:99:ALA:HB3	45:WG:145:THR:HG22	2.01	0.43
45:WG:100:ALA:HB1	46:WH:252:LYS:HA	2.01	0.43
45:WG:156:ARG:HG3	45:WG:156:ARG:HH11	1.84	0.43
46:WN:22:GLU:HG2	46:WN:81:PHE:HB2	2.00	0.43
46:WN:183:TYR:HE2	46:WN:394:PHE:HB2	1.84	0.43
46:WN:194:GLU:HA	46:WN:262:ARG:HH22	1.84	0.43
45:CE:66:VAL:HG11	45:CE:122:ILE:HD11	1.99	0.43
45:CE:187:SER:O	45:CE:191:THR:HG23	2.18	0.43
4:0D:166:ARG:NH1	45:EC:80:THR:O	2.52	0.43
4:0D:174:TYR:HD1	45:EC:79:ARG:HD3	1.83	0.43
9:0N:247:GLN:HA	46:KN:74:ASP:OD1	2.19	0.43
4:1D:174:TYR:HA	45:EG:79:ARG:NH2	2.33	0.43
23:1O:239:ILE:HG23	46:UB:280:GLN:HG2	2.00	0.43
14:1V:221:LYS:HZ2	46:VL:83:GLN:HG3	1.84	0.43
4:2D:223:ILE:O	34:5R:506:LEU:HG	2.19	0.43
29:2G:14:TYR:CD1	45:KG:339:ARG:HG3	2.54	0.43
20:2K:375:VAL:HG22	45:GG:370:LYS:HZ3	1.83	0.43
23:2O:288:LYS:NZ	46:VH:359:LYS:HE2	2.34	0.43
14:2V:122:LYS:HE2	46:LH:390:ARG:HH22	1.84	0.43
12:3T:74:ILE:HD12	45:MK:159:VAL:HG23	2.00	0.43
15:4X:88:PHE:O	15:4X:92:LYS:HG2	2.19	0.43
36:5B:102:TYR:CE1	45:KE:394:LYS:HE3	2.54	0.43
36:5B:138:ARG:HH22	46:NH:359:LYS:HZ3	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5C:139:PHE:HB3	46:NL:42:LEU:HD12	2.00	0.43
37:5E:81:MET:HG3	37:5E:96:TYR:CE2	2.54	0.43
37:5E:154:TYR:HE2	37:5F:11:TRP:NE1	2.17	0.43
37:5F:157:ARG:NH1	46:NH:36:TYR:O	2.50	0.43
37:5G:69:LYS:HA	37:5G:69:LYS:HD3	1.80	0.43
37:5G:146:PHE:HD2	37:5G:149:ARG:HH11	1.65	0.43
10:5Q:38:THR:HA	10:5Q:45:SER:HA	1.99	0.43
40:6G:144:LYS:HD3	45:VG:214:ARG:NH2	2.30	0.43
34:6R:79:PRO:O	34:6R:82:GLN:NE2	2.51	0.43
45:AA:179:THR:OG1	46:AB:350:LYS:NZ	2.52	0.43
46:AB:21:TRP:HA	46:AB:24:ILE:HG22	2.01	0.43
46:AB:52:ASN:OD1	46:AB:62:ARG:NH2	2.51	0.43
45:AC:181:VAL:HG22	46:AD:256:ASN:OD1	2.19	0.43
45:AE:251:ASP:HB3	45:AE:254:GLU:HG2	2.01	0.43
46:AF:4:ILE:HG13	46:AF:132:GLY:C	2.39	0.43
46:AJ:5:VAL:HG12	46:AJ:62:ARG:HD3	2.01	0.43
45:AK:220:GLU:HG2	45:AK:221:ARG:HG3	2.01	0.43
45:BA:109:THR:HG22	45:BA:110:ILE:HG23	2.00	0.43
45:BA:245:ASP:OD2	45:BA:245:ASP:N	2.51	0.43
45:BC:425:LEU:HD23	45:BC:425:LEU:HA	1.79	0.43
45:BE:171:ILE:HG23	45:BE:204:LEU:O	2.18	0.43
45:BG:221:ARG:NH1	46:BH:322:SER:HB3	2.34	0.43
45:BM:33:ASP:HA	45:BM:85:GLN:HE21	1.83	0.43
45:CA:88:HIS:ND1	45:CA:89:PRO:HD2	2.34	0.43
45:CA:89:PRO:HD3	45:DA:280:LYS:HE3	2.00	0.43
45:CA:231:ILE:O	45:CA:235:ILE:HG12	2.19	0.43
45:CA:261:PRO:HG2	45:CA:313:MET:CE	2.49	0.43
45:CC:74:VAL:HA	45:CC:77:GLU:HG2	2.00	0.43
45:CG:141:VAL:HG12	45:CG:171:ILE:O	2.18	0.43
45:CI:334:THR:O	45:CI:338:LYS:HG3	2.19	0.43
46:CJ:165:GLU:OE1	46:CJ:198:GLU:HB2	2.19	0.43
46:CJ:324:LYS:O	46:CJ:328:GLU:HG3	2.19	0.43
46:CL:47:ILE:HD12	46:CL:59:TYR:CE2	2.47	0.43
46:CL:252:LYS:HA	46:CL:255:VAL:HG12	2.00	0.43
46:CN:65:LEU:HD23	46:CN:73:MET:HG2	2.01	0.43
45:DA:372:MET:SD	45:DA:373:ARG:HG3	2.59	0.43
46:DB:1:MET:CE	46:DB:2:ARG:H	2.32	0.43
46:DD:334:GLN:HA	46:DD:341:PHE:CE2	2.53	0.43
45:DE:71:GLU:HG2	45:DE:71:GLU:O	2.18	0.43
45:DG:11:GLN:HE21	47:DG:501:GTP:PA	2.42	0.43
46:DH:323:THR:HG21	45:DI:224:TYR:HD2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:390:ARG:HA	46:DH:390:ARG:NH1	2.33	0.43
46:DL:375:GLN:HG2	46:DL:379:LYS:HZ3	1.83	0.43
46:EB:287:PRO:HG3	46:EB:329:GLN:NE2	2.34	0.43
45:EC:265:ILE:HD11	45:EC:435:VAL:HG21	2.01	0.43
46:ED:2:ARG:NH1	46:ED:240:LEU:HG	2.34	0.43
45:EE:387:VAL:HA	45:EE:390:ARG:HG2	2.01	0.43
46:EF:139:LEU:HD13	46:EF:168:SER:HB3	2.00	0.43
45:EI:260:VAL:HG23	46:EJ:397:TRP:HZ2	1.83	0.43
45:EI:338:LYS:NZ	45:EI:340:THR:H	2.16	0.43
45:EK:175:PRO:HG2	45:EK:304:LYS:HG2	2.00	0.43
45:EM:401:LYS:HB2	45:EM:401:LYS:HE3	1.82	0.43
46:FF:86:ARG:HH22	46:GF:281:TYR:HD2	1.67	0.43
45:FG:171:ILE:HG23	45:FG:204:LEU:O	2.19	0.43
45:FI:174:SER:HB2	45:FI:177:VAL:O	2.18	0.43
45:FM:167:LEU:HG	45:FM:200:VAL:HB	2.01	0.43
46:FN:15:GLN:NE2	49:FN:501:GDP:C5	2.87	0.43
46:GD:289:LEU:HD11	46:GD:363:MET:HB3	2.01	0.43
45:GE:222:PRO:HD2	46:GF:324:LYS:NZ	2.34	0.43
46:GF:55:THR:HG23	46:HF:283:ALA:HA	2.00	0.43
46:GF:324:LYS:HG3	46:GF:325:GLU:N	2.33	0.43
46:GH:289:LEU:HD23	46:GH:289:LEU:HA	1.88	0.43
46:GN:114:ASP:OD1	46:GN:114:ASP:N	2.52	0.43
46:GN:287:PRO:HA	46:GN:290:THR:HG22	2.01	0.43
46:HB:73:MET:CE	46:HB:92:PHE:HB3	2.49	0.43
45:HC:174:SER:HB2	45:HC:177:VAL:O	2.19	0.43
45:HC:312:TYR:HE2	45:HC:379:SER:HG	1.67	0.43
45:HE:345:ASP:OD1	45:HE:346:TRP:N	2.52	0.43
45:HG:105:ARG:HG2	45:HG:411:GLU:CD	2.39	0.43
45:HG:181:VAL:H	46:HH:256:ASN:HD21	1.67	0.43
45:HG:224:TYR:HE2	46:HH:246:LEU:HD11	1.84	0.43
46:HH:342:VAL:HG13	46:HH:345:ILE:HG22	2.01	0.43
45:HM:107:HIS:ND1	45:HM:107:HIS:O	2.52	0.43
45:HM:115:VAL:HG22	45:HM:119:LEU:HD23	2.01	0.43
45:HM:288:VAL:HA	45:HM:291:ILE:HG12	2.01	0.43
45:HM:395:PHE:HZ	45:HM:418:PHE:HB3	1.83	0.43
45:IA:308:ARG:HA	45:IA:308:ARG:NH1	2.33	0.43
46:IF:204:ASN:OD1	49:IF:501:GDP:O2'	2.35	0.43
45:IG:259:LEU:HD11	45:IG:316:SER:HB3	2.01	0.43
46:IJ:379:LYS:O	46:IJ:383:GLU:HG2	2.19	0.43
45:IK:188:ILE:O	45:IK:191:THR:OG1	2.27	0.43
45:IK:320:ARG:HA	45:IK:356:ASN:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IM:71:GLU:OE2	45:IM:73:THR:OG1	2.34	0.43
45:IM:390:ARG:HG3	45:IM:391:LEU:N	2.34	0.43
45:JA:63:PRO:HG2	45:JA:87:PHE:HE1	1.84	0.43
45:JE:330:ALA:O	45:JE:334:THR:HG23	2.19	0.43
46:JF:203:ASP:OD2	46:JF:302:ALA:N	2.33	0.43
45:JG:426:ALA:O	45:JG:429:GLU:HG2	2.19	0.43
46:JH:267:MET:HE2	46:JH:299:MET:HG3	2.01	0.43
45:JI:38:SER:O	45:JI:40:LYS:HG2	2.18	0.43
45:JI:96:LYS:HD3	45:JI:96:LYS:O	2.19	0.43
46:JL:398:TYR:O	46:JL:403:MET:HB3	2.19	0.43
45:JM:420:GLU:HA	45:JM:423:GLU:OE2	2.19	0.43
45:KC:205:ASP:OD2	45:KC:303:ALA:HA	2.19	0.43
46:KD:9:GLY:HA2	46:KD:66:MET:O	2.19	0.43
46:KD:362:LYS:HB2	46:KD:362:LYS:HE3	1.64	0.43
45:KE:176:GLN:O	46:KF:331:LEU:HD11	2.19	0.43
45:KK:264:ARG:NH2	45:KK:428:LEU:HD13	2.34	0.43
46:KL:418:LEU:HA	46:KL:421:GLU:HG2	2.01	0.43
46:LB:200:MET:HE2	46:LB:266:PHE:HB2	2.00	0.43
45:LC:124:LYS:HE2	45:LC:124:LYS:HB2	1.88	0.43
46:LD:116:VAL:HA	46:LD:119:VAL:HG22	2.01	0.43
45:LE:108:TYR:CE2	45:LE:413:MET:HG3	2.54	0.43
46:LF:16:ILE:HD12	46:LF:229:VAL:HG21	2.00	0.43
46:LH:159:TYR:HB3	46:LH:162:ARG:HG3	2.01	0.43
45:LI:279:GLU:H	45:LI:279:GLU:CD	2.22	0.43
46:LJ:97:ALA:HB2	46:LJ:143:THR:HB	2.00	0.43
45:LK:140:SER:OG	47:LK:501:GTP:O2B	2.36	0.43
46:LL:170:VAL:HG11	46:LL:377:MET:CE	2.49	0.43
46:LL:407:GLU:OE2	46:LL:407:GLU:N	2.45	0.43
45:LM:330:ALA:O	45:LM:334:THR:HG23	2.18	0.43
46:MD:310:TYR:CD2	46:MD:371:SER:HB2	2.54	0.43
45:ME:414:GLU:OE2	45:ME:415:GLU:HG3	2.19	0.43
45:MM:356:ASN:OD1	45:MM:357:TYR:N	2.52	0.43
45:NA:242:LEU:HD21	45:NA:252:ILE:HG12	2.01	0.43
45:NC:21:TRP:CZ2	45:NC:65:ALA:HB2	2.53	0.43
46:ND:380:ARG:HA	46:ND:383:GLU:OE1	2.19	0.43
46:NF:345:ILE:O	46:NF:345:ILE:HG23	2.18	0.43
45:NG:205:ASP:OD1	45:NG:303:ALA:HA	2.19	0.43
45:NI:167:LEU:HD11	45:NI:252:ILE:HG23	1.99	0.43
46:NJ:164:MET:HB2	46:NJ:197:ASP:CG	2.39	0.43
45:NK:339:ARG:NH2	45:NK:340:THR:HA	2.34	0.43
46:NL:309:ARG:N	46:NL:372:THR:HG1	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NN:65:LEU:HB3	46:NN:73:MET:HE3	1.99	0.43
46:NN:309:ARG:NH2	46:NN:342:VAL:HA	2.33	0.43
46:OB:173:PRO:HG3	46:OB:384:GLN:NE2	2.33	0.43
46:OB:205:GLU:HG2	46:OB:206:ALA:N	2.34	0.43
46:OD:165:GLU:OE2	46:OD:200:MET:HG2	2.18	0.43
46:OD:201:VAL:HG22	46:OD:266:PHE:O	2.19	0.43
46:OD:201:VAL:HG23	46:OD:301:CYS:SG	2.59	0.43
45:OE:217:LEU:HB3	45:OE:219:ILE:HG12	2.00	0.43
45:OE:370:LYS:O	45:OE:370:LYS:HG3	2.19	0.43
46:OH:23:VAL:HA	46:OH:26:ASP:OD2	2.19	0.43
45:OK:36:MET:SD	45:OK:37:PRO:HD2	2.58	0.43
45:OK:136:LEU:HB3	45:OK:138:PHE:CE2	2.54	0.43
45:PA:269:LEU:CD1	45:PA:303:ALA:HB3	2.49	0.43
46:PB:282:ARG:HH21	46:PB:288:GLU:HG2	1.84	0.43
45:PG:51:THR:HG21	45:PG:243:ARG:HD3	2.00	0.43
45:PG:265:ILE:HG22	45:PG:380:ASN:HD21	1.84	0.43
46:PH:19:LYS:HE3	46:PH:227:HIS:HB2	2.00	0.43
45:PI:105:ARG:NH1	46:PJ:251:ARG:HD3	2.34	0.43
45:PI:231:ILE:O	45:PI:235:ILE:HG12	2.19	0.43
46:PN:139:LEU:HD23	46:PN:185:ALA:HA	2.01	0.43
46:PN:375:GLN:HA	46:PN:378:PHE:HD1	1.83	0.43
45:QA:370:LYS:HD3	45:QA:370:LYS:C	2.39	0.43
46:QB:68:LEU:HB3	46:QB:96:GLY:HA2	2.00	0.43
46:QB:212:PHE:HB3	46:QB:213:ARG:CZ	2.49	0.43
45:QC:226:ASN:ND2	45:QC:367:ASP:OD2	2.52	0.43
46:QD:398:TYR:O	46:QD:403:MET:HB2	2.19	0.43
46:QF:258:ILE:HD11	45:QG:407:TRP:CZ2	2.54	0.43
46:QH:54:ALA:HB3	46:QH:58:ARG:HG2	2.00	0.43
46:QH:151:LEU:O	46:QH:155:VAL:HG22	2.19	0.43
45:QI:88:HIS:HB3	45:QI:91:GLN:HG2	1.99	0.43
45:QI:141:VAL:HG12	45:QI:171:ILE:O	2.19	0.43
45:QI:145:THR:HG22	47:QI:501:GTP:PG	2.59	0.43
46:QJ:16:ILE:HD13	46:QJ:226:ASN:OD1	2.18	0.43
45:QK:11:GLN:OE1	45:QK:11:GLN:N	2.43	0.43
46:QL:299:MET:SD	46:QL:299:MET:N	2.91	0.43
45:QM:8:HIS:CE1	45:QM:21:TRP:CH2	3.06	0.43
46:QN:175:VAL:HG22	46:QN:205:GLU:HB2	2.01	0.43
45:RA:88:HIS:HB3	45:RA:91:GLN:HG2	2.01	0.43
46:RB:148:GLY:O	46:RB:152:ILE:HG13	2.18	0.43
46:RB:318:ARG:HB2	46:RB:364:ALA:HB3	2.01	0.43
46:RB:327:ASP:O	46:RB:331:LEU:HD23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RI:194:LEU:O	45:RI:198:THR:HG22	2.18	0.43
46:RJ:252:LYS:HD2	45:RK:101:ASN:OD1	2.19	0.43
46:SB:113:ILE:HD13	46:SB:154:LYS:HZ2	1.84	0.43
45:SE:328:VAL:HG11	45:SE:353:VAL:HG21	2.00	0.43
46:SF:97:ALA:HA	46:SF:103:LYS:NZ	2.34	0.43
45:SG:23:LEU:O	45:SG:27:GLU:OE1	2.36	0.43
45:SG:55:GLU:HG3	45:SG:57:GLY:H	1.84	0.43
45:SG:56:THR:HA	45:TG:285:GLN:OE1	2.19	0.43
45:SK:262:TYR:OH	46:SL:391:ARG:O	2.36	0.43
46:SL:102:ALA:HB2	46:SL:403:MET:HE2	2.00	0.43
46:SL:193:VAL:HG12	46:SL:265:PHE:CZ	2.54	0.43
45:SM:393:HIS:HA	45:SM:396:ASP:OD2	2.18	0.43
46:TB:321:MET:HB3	45:TC:221:ARG:NH2	2.34	0.43
45:TC:175:PRO:HA	45:TC:390:ARG:NH1	2.34	0.43
46:TF:210:ILE:O	46:TF:214:THR:OG1	2.28	0.43
46:TJ:345:ILE:HG22	46:TJ:348:ASN:HB3	2.01	0.43
46:UB:262:ARG:HA	46:UB:262:ARG:CZ	2.48	0.43
45:UC:34:GLY:O	45:UC:60:LYS:HA	2.19	0.43
46:UD:383:GLU:HA	46:UD:386:THR:HG22	2.01	0.43
45:UE:420:GLU:HA	45:UE:423:GLU:CD	2.39	0.43
45:UI:74:VAL:O	45:UI:78:VAL:HG23	2.18	0.43
45:UK:123:ARG:NH1	45:UK:127:ASP:HB3	2.30	0.43
45:UK:328:VAL:HG11	45:UK:353:VAL:HG21	2.00	0.43
46:UL:175:VAL:HG22	46:UL:205:GLU:HG2	2.01	0.43
45:UM:21:TRP:CZ2	45:UM:65:ALA:HB2	2.54	0.43
45:UM:22:GLU:HG3	45:UM:83:TYR:CE2	2.53	0.43
45:UM:182:VAL:HG22	45:UM:185:TYR:HB2	2.01	0.43
45:UM:240:ALA:HB3	45:UM:320:ARG:HH22	1.83	0.43
45:UM:331:SER:O	45:UM:335:ILE:HG12	2.19	0.43
46:UN:119:VAL:HA	46:UN:122:LYS:HG2	2.00	0.43
46:VB:119:VAL:O	46:VB:123:GLU:OE1	2.37	0.43
46:VB:229:VAL:O	46:VB:233:MET:HG2	2.19	0.43
45:VC:220:GLU:OE1	45:VC:221:ARG:HG2	2.19	0.43
46:VD:213:ARG:HA	46:VD:216:LYS:NZ	2.34	0.43
46:VF:228:LEU:HD11	46:VF:273:LEU:HD11	2.01	0.43
46:VF:312:THR:HG22	46:VF:370:ASN:HB3	2.00	0.43
45:VG:301:MET:HE1	45:VG:307:PRO:HD3	2.01	0.43
46:VH:332:ASN:O	46:VH:336:LYS:HG2	2.19	0.43
45:VI:22:GLU:O	45:VI:26:LEU:HD23	2.18	0.43
45:VI:174:SER:HB3	45:VI:207:GLU:OE2	2.17	0.43
45:VI:221:ARG:HH21	46:VJ:321:MET:HB2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VI:288:VAL:HA	45:VI:291:ILE:HG12	2.00	0.43
46:VJ:16:ILE:HD13	46:VJ:226:ASN:OD1	2.18	0.43
45:VK:242:LEU:HD21	45:VK:251:ASP:OD1	2.19	0.43
45:VK:280:LYS:O	45:VK:280:LYS:HG2	2.17	0.43
46:WB:3:GLU:O	46:WB:4:ILE:HD13	2.19	0.43
46:WB:12:CYS:O	46:WB:16:ILE:HG12	2.18	0.43
46:WD:207:LEU:HB3	46:WD:225:LEU:HD22	2.01	0.43
45:WE:22:GLU:OE2	45:WE:83:TYR:HE2	2.02	0.43
45:WE:209:ILE:HG21	45:WE:227:LEU:HG	2.01	0.43
45:WE:345:ASP:OD2	45:WE:346:TRP:N	2.52	0.43
46:WF:253:LEU:O	46:WF:257:LEU:HB2	2.19	0.43
45:WG:84:ARG:H	45:WG:84:ARG:HG2	1.66	0.43
45:WG:239:THR:HG23	45:WG:243:ARG:NE	2.32	0.43
45:WG:261:PRO:HA	46:WJ:394:PHE:HD2	1.84	0.43
45:WG:329:ASN:OD1	46:WJ:175:VAL:HG23	2.19	0.43
46:WH:203:ASP:OD2	46:WH:302:ALA:N	2.39	0.43
46:WH:310:TYR:CD1	46:WH:371:SER:HB2	2.54	0.43
46:WH:318:ARG:HH11	46:WH:358:PRO:HG3	1.84	0.43
45:WM:141:VAL:HG11	45:WM:172:TYR:HA	2.01	0.43
46:WN:256:ASN:CB	46:WN:350:LYS:HE3	2.49	0.43
45:DC:24:PHE:HA	45:DC:27:GLU:HG2	2.01	0.43
10:0Q:6:PHE:CZ	45:WA:120:ASP:OD2	2.71	0.42
19:1J:198:ARG:HH21	45:IG:370:LYS:C	2.22	0.42
23:1O:185:ARG:HD2	46:UD:279:GLN:NE2	2.34	0.42
23:1O:249:LYS:HZ1	46:UB:276:ARG:HE	1.67	0.42
25:1R:112:GLU:OE2	46:BF:279:GLN:NE2	2.41	0.42
13:1U:430:ARG:HH22	45:WE:365:GLY:H	1.64	0.42
26:1W:65:GLY:HA3	46:LH:224:ASP:OD2	2.19	0.42
1:2A:104:ARG:HH21	34:5R:60:GLY:N	2.17	0.42
4:2D:77:ASN:HB2	46:EJ:362:LYS:HZ3	1.83	0.42
4:2D:224:ARG:NH1	34:5R:582:TYR:HB3	2.34	0.42
31:2I:118:LYS:HZ3	45:GC:339:ARG:HB3	1.83	0.42
25:2R:193:TYR:CD1	45:AG:40:LYS:HG2	2.53	0.42
26:2W:254:ARG:HH21	34:6R:21:LEU:HB2	1.84	0.42
10:3Q:6:PHE:CB	45:WG:121:ARG:HH12	2.32	0.42
25:3R:455:ASN:OD1	46:FL:219:THR:HB	2.17	0.42
33:4F:119:VAL:HG22	46:IL:359:LYS:HZ1	1.78	0.42
36:5A:127:GLU:HB3	46:ND:276:ARG:NH1	2.34	0.42
36:5D:82:ASP:O	36:5D:85:ARG:NH1	2.52	0.42
10:5Q:103:PHE:CD1	10:5Q:119:CYS:HB3	2.53	0.42
35:5S:93:PRO:HA	35:5S:96:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6H:183:TYR:HB3	45:FA:364:PRO:HG2	2.01	0.42
46:AB:19:LYS:HG3	46:AB:226:ASN:HB3	2.01	0.42
45:AC:259:LEU:HD21	45:AC:316:SER:OG	2.19	0.42
46:AD:91:VAL:HG21	46:AD:116:VAL:HB	2.00	0.42
46:AD:208:TYR:CE1	46:AD:225:LEU:HD11	2.51	0.42
46:AF:73:MET:HE2	46:AF:73:MET:HB3	1.89	0.42
46:AJ:6:HIS:O	46:AJ:63:ALA:HA	2.18	0.42
45:AK:326:LYS:HG3	46:AN:220:PRO:HD2	2.01	0.42
45:AM:254:GLU:O	45:AM:255:PHE:HD1	2.02	0.42
45:BA:19:ALA:HA	45:BA:22:GLU:OE1	2.19	0.42
45:BA:384:ILE:O	45:BA:387:VAL:HG22	2.19	0.42
45:BG:252:ILE:HD12	45:BG:252:ILE:H	1.84	0.42
46:BL:73:MET:HE1	46:BL:92:PHE:HB3	2.01	0.42
46:BL:121:ARG:O	46:BL:125:GLU:HG3	2.19	0.42
46:BN:22:GLU:HA	46:BN:81:PHE:HD2	1.84	0.42
46:CB:55:THR:HG23	46:DB:283:ALA:HA	2.00	0.42
46:CB:119:VAL:O	46:CB:123:GLU:OE1	2.37	0.42
45:CC:124:LYS:HE2	45:CC:124:LYS:HB2	1.82	0.42
45:CC:141:VAL:HG21	45:CC:172:TYR:CE1	2.54	0.42
45:CG:79:ARG:O	45:CG:84:ARG:HG2	2.19	0.42
45:CI:2:ARG:NH1	46:CJ:94:GLN:O	2.51	0.42
46:CJ:66:MET:HA	46:CJ:91:VAL:HG23	2.00	0.42
45:CK:253:THR:HA	45:CK:256:GLN:HE22	1.83	0.42
46:DD:8:GLN:HE21	46:DD:65:LEU:CD2	2.31	0.42
45:DE:117:LEU:O	45:DE:121:ARG:HG2	2.19	0.42
45:DE:429:GLU:HG3	45:DE:433:GLU:OE2	2.19	0.42
46:DF:102:ALA:O	46:DF:106:TYR:HB2	2.19	0.42
45:DG:120:ASP:O	45:DG:124:LYS:HG2	2.18	0.42
46:DH:256:ASN:OD1	45:DI:181:VAL:HG12	2.19	0.42
45:DI:63:PRO:HG2	45:DI:87:PHE:CD1	2.53	0.42
45:DK:356:ASN:OD1	45:DK:357:TYR:N	2.52	0.42
45:EA:296:PHE:HE2	45:EA:335:ILE:HG13	1.83	0.42
45:EC:14:ILE:HG12	45:EC:67:PHE:HD1	1.83	0.42
45:EC:203:MET:N	45:EC:203:MET:SD	2.92	0.42
46:ED:205:GLU:OE2	46:ED:205:GLU:HA	2.19	0.42
46:EF:175:VAL:O	46:EF:175:VAL:HG23	2.19	0.42
46:EH:44:LEU:O	46:EH:47:ILE:HG12	2.19	0.42
46:EH:306:ARG:HB2	46:EH:340:TYR:CE1	2.54	0.42
46:EH:309:ARG:NH2	46:EH:426:GLN:O	2.35	0.42
46:EJ:116:VAL:HA	46:EJ:119:VAL:HG12	2.01	0.42
46:EL:315:ALA:HB3	46:EL:330:MET:HE1	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:141:VAL:HG11	45:EM:172:TYR:CD1	2.53	0.42
45:EM:434:GLU:O	46:EN:391:ARG:NH2	2.52	0.42
46:EN:65:LEU:HD22	46:EN:90:PHE:CE1	2.54	0.42
46:EN:222:TYR:HB3	49:EN:501:GDP:O6	2.18	0.42
46:FB:370:ASN:OD1	46:FB:422:TYR:OH	2.37	0.42
46:FD:287:PRO:HA	46:FD:290:THR:HG22	2.01	0.42
45:FE:312:TYR:HB2	45:FE:343:PHE:HD2	1.84	0.42
46:FF:293:MET:SD	46:FF:365:VAL:HG11	2.59	0.42
45:FI:316:SER:HA	45:FI:352:LYS:O	2.19	0.42
45:FK:69:ASP:O	45:FK:94:SER:HA	2.19	0.42
46:FL:200:MET:HE1	46:FL:266:PHE:HB2	2.01	0.42
46:FL:226:ASN:ND2	49:FL:502:GDP:HN1	2.15	0.42
46:FL:248:SER:HA	46:FL:252:LYS:HD2	2.00	0.42
45:FM:102:ASN:HB3	45:FM:105:ARG:HB2	2.01	0.42
45:GA:231:ILE:O	45:GA:235:ILE:HG12	2.18	0.42
45:GE:79:ARG:O	45:GE:84:ARG:HG2	2.19	0.42
45:GE:109:THR:OG1	45:GE:411:GLU:OE2	2.13	0.42
45:GE:222:PRO:HD2	46:GF:324:LYS:HD3	2.00	0.42
46:GF:186:THR:HA	46:GF:189:VAL:HG12	2.01	0.42
45:GI:271:SER:OG	45:GI:301:MET:HA	2.19	0.42
45:GK:332:ILE:HD12	45:GK:351:PHE:CE1	2.54	0.42
46:GL:21:TRP:HA	46:GL:24:ILE:HG22	2.01	0.42
45:HC:98:ASP:OD1	45:HC:99:ALA:N	2.52	0.42
45:HE:156:ARG:HD3	45:HE:156:ARG:HA	1.79	0.42
45:HE:431:ASP:O	45:HE:434:GLU:HG3	2.19	0.42
45:HG:265:ILE:HG12	45:HG:432:TYR:CE1	2.53	0.42
46:HH:248:SER:HA	46:HH:252:LYS:HD2	2.01	0.42
46:HH:316:LEU:HB2	46:HH:366:THR:CG2	2.48	0.42
45:HI:121:ARG:NH1	45:HI:124:LYS:HD2	2.31	0.42
46:HN:137:HIS:NE2	46:HN:166:THR:OG1	2.52	0.42
45:IA:114:ILE:HD13	45:IA:114:ILE:HA	1.87	0.42
46:IB:100:ASN:HD22	46:IB:103:LYS:HB2	1.84	0.42
45:IE:5:ILE:HB	45:IE:135:PHE:CD2	2.53	0.42
45:IE:53:PHE:HD1	45:IE:63:PRO:HA	1.84	0.42
46:IF:237:THR:HG23	46:IF:241:ARG:HH11	1.84	0.42
45:IG:3:GLU:OE1	45:IG:3:GLU:N	2.52	0.42
45:IG:241:SER:HB2	45:IG:249:ASN:OD1	2.19	0.42
45:IG:329:ASN:HA	45:IG:332:ILE:HG22	2.00	0.42
46:IH:6:HIS:HD2	46:IH:134:GLN:NE2	2.08	0.42
45:II:237:SER:HA	45:II:320:ARG:HH11	1.84	0.42
45:IK:285:GLN:H	45:IK:285:GLN:HG2	1.64	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:IL:377:MET:CE	46:IL:380:ARG:HE	2.31	0.42
45:IM:147:SER:HB2	45:IM:190:SER:HB3	2.00	0.42
45:IM:153:LEU:O	45:IM:157:LEU:HD23	2.19	0.42
45:JA:206:ASN:OD1	47:JA:501:GTP:N2	2.47	0.42
46:JD:3:GLU:H	46:JD:3:GLU:CD	2.22	0.42
46:JD:310:TYR:CD1	46:JD:371:SER:HB2	2.54	0.42
45:JE:174:SER:HB2	45:JE:177:VAL:O	2.18	0.42
45:JG:318:MET:HB2	45:JG:376:CYS:SG	2.58	0.42
46:JL:73:MET:CB	46:JL:77:ARG:HH21	2.32	0.42
45:JM:434:GLU:O	45:JM:437:ILE:HG12	2.19	0.42
46:JN:276:ARG:HA	46:JN:279:GLN:NE2	2.31	0.42
46:JN:287:PRO:HA	46:JN:329:GLN:NE2	2.33	0.42
45:KA:316:SER:HB3	45:KA:378:ILE:HB	2.01	0.42
46:KB:257:LEU:HD12	46:KB:312:THR:OG1	2.19	0.42
46:KB:416:ASN:HA	46:KB:419:VAL:HG12	2.00	0.42
46:KF:172:SER:OG	46:KF:205:GLU:HG2	2.18	0.42
45:KG:256:GLN:HB3	46:KJ:397:TRP:CZ2	2.54	0.42
45:KI:152:LEU:HD12	45:KI:152:LEU:HA	1.90	0.42
45:KI:268:MET:HB2	45:KI:379:SER:O	2.19	0.42
46:KJ:91:VAL:HG21	46:KJ:116:VAL:HB	2.01	0.42
45:LA:71:GLU:OE2	46:LB:2:ARG:NH2	2.52	0.42
45:LA:75:ILE:HG21	45:LA:94:SER:HB2	2.02	0.42
45:LA:141:VAL:HG12	45:LA:171:ILE:O	2.19	0.42
46:LB:154:LYS:HA	46:LB:157:GLU:OE1	2.18	0.42
45:LC:55:GLU:OE2	45:LC:56:THR:N	2.52	0.42
45:LC:89:PRO:HD3	45:MC:280:LYS:HE2	2.00	0.42
45:LC:107:HIS:ND1	45:LC:107:HIS:O	2.52	0.42
45:LG:296:PHE:CE2	45:LG:335:ILE:HG21	2.54	0.42
46:LJ:35:THR:HB	46:LJ:37:HIS:HE1	1.84	0.42
46:LL:248:SER:HA	46:LL:252:LYS:HD2	2.01	0.42
46:MB:310:TYR:HB2	46:MB:341:PHE:HD1	1.83	0.42
46:MF:103:LYS:HE2	46:MF:103:LYS:HB3	1.93	0.42
45:MG:174:SER:HA	45:MG:205:ASP:OD1	2.18	0.42
45:MI:200:VAL:HG13	45:MI:268:MET:CE	2.49	0.42
45:MI:222:PRO:O	46:MJ:322:SER:HB2	2.19	0.42
45:MK:398:MET:HE2	46:ML:346:PRO:HD2	2.01	0.42
45:MM:107:HIS:O	45:MM:107:HIS:ND1	2.52	0.42
45:NA:54:SER:HB3	45:NA:64:ARG:NH1	2.33	0.42
45:NA:120:ASP:HB3	45:NA:124:LYS:NZ	2.33	0.42
46:NH:31:ASP:OD2	46:NH:35:THR:HB	2.18	0.42
46:NJ:5:VAL:HG12	46:NJ:62:ARG:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NM:82:THR:HG23	45:NM:83:TYR:CD1	2.54	0.42
46:NN:2:ARG:HG2	46:NN:131:GLN:OE1	2.19	0.42
46:NN:350:LYS:HA	46:NN:350:LYS:HD2	1.87	0.42
45:OA:390:ARG:HG3	45:OA:391:LEU:N	2.33	0.42
45:OA:434:GLU:O	46:OD:391:ARG:NH2	2.46	0.42
46:OD:132:GLY:HA2	46:OD:163:ILE:O	2.18	0.42
46:OH:286:VAL:O	46:OH:290:THR:HG23	2.19	0.42
45:OI:99:ALA:HB3	45:OI:145:THR:HB	1.99	0.42
46:OJ:314:SER:OG	46:OJ:368:VAL:HB	2.19	0.42
46:OL:141:GLY:O	46:OL:145:SER:OG	2.31	0.42
46:OL:372:THR:HA	46:OL:422:TYR:CE2	2.53	0.42
46:OL:404:ASP:N	46:OL:404:ASP:OD1	2.52	0.42
45:OM:152:LEU:O	45:OM:156:ARG:HG2	2.18	0.42
46:ON:398:TYR:O	46:ON:403:MET:HB3	2.19	0.42
45:PA:4:VAL:HG22	45:PA:133:GLN:HB2	1.99	0.42
45:PA:167:LEU:HG	45:PA:200:VAL:HB	2.00	0.42
45:PA:221:ARG:HD2	46:PB:322:SER:OG	2.18	0.42
46:PB:201:VAL:HG23	46:PB:301:CYS:SG	2.58	0.42
46:PB:285:THR:HB	46:PB:287:PRO:HD2	2.00	0.42
45:PC:88:HIS:CE1	45:PC:90:GLU:HG3	2.54	0.42
46:PD:163:ILE:HD11	46:PD:251:ARG:HH11	1.84	0.42
45:PE:3:GLU:N	45:PE:3:GLU:OE2	2.52	0.42
45:PI:224:TYR:CE2	46:PJ:323:THR:HG21	2.53	0.42
45:PM:384:ILE:O	45:PM:387:VAL:HG12	2.19	0.42
45:QA:206:ASN:OD1	47:QA:501:GTP:N2	2.51	0.42
45:QA:324:VAL:HG12	45:QA:326:LYS:HG2	2.00	0.42
45:QA:345:ASP:N	45:QA:345:ASP:OD1	2.53	0.42
46:QB:208:TYR:CE1	46:QB:225:LEU:HD11	2.54	0.42
46:QB:391:ARG:HA	46:QB:391:ARG:HD2	1.81	0.42
45:QC:260:VAL:HG13	45:QC:265:ILE:O	2.19	0.42
45:QE:117:LEU:O	45:QE:121:ARG:HG2	2.18	0.42
45:QE:349:THR:HG23	46:QF:179:VAL:HA	2.01	0.42
46:QJ:97:ALA:HB3	46:QJ:143:THR:HB	2.00	0.42
46:QJ:285:THR:HG23	46:QJ:288:GLU:H	1.84	0.42
45:QK:187:SER:O	45:QK:191:THR:HG23	2.19	0.42
46:QL:182:PRO:O	46:QL:186:THR:HG23	2.19	0.42
45:RC:122:ILE:HA	45:RC:125:LEU:HG	2.01	0.42
46:RD:2:ARG:HH22	46:RD:247:ASN:ND2	2.16	0.42
46:RD:262:ARG:NH2	46:RD:418:LEU:HA	2.34	0.42
46:RF:391:ARG:HA	46:RF:391:ARG:HD2	1.89	0.42
46:RH:320:ARG:HG3	46:RH:355:ASP:HB2	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:20:PHE:HB2	46:RL:233:MET:CE	2.49	0.42
46:SB:208:TYR:HB3	46:SB:212:PHE:CE1	2.54	0.42
46:SD:380:ARG:HA	46:SD:383:GLU:OE1	2.19	0.42
46:SF:328:GLU:OE2	46:SF:329:GLN:HG2	2.18	0.42
46:SH:67:ASP:OD2	46:SH:72:THR:OG1	2.17	0.42
46:SH:267:MET:HB2	46:SH:299:MET:HE2	2.00	0.42
46:SL:122:LYS:HE2	46:TL:291:GLN:HB2	2.01	0.42
46:SL:248:SER:HA	46:SL:252:LYS:HE2	2.01	0.42
46:SL:407:GLU:HA	46:SL:410:GLU:OE1	2.19	0.42
45:TA:102:ASN:HB3	45:TA:105:ARG:HB2	2.00	0.42
46:TB:248:SER:HA	46:TB:252:LYS:HG3	2.01	0.42
45:TC:74:VAL:O	45:TC:78:VAL:HG23	2.19	0.42
45:TC:280:LYS:HA	45:TC:283:HIS:ND1	2.34	0.42
46:TF:200:MET:CE	46:TF:268:ILE:HG21	2.49	0.42
46:TF:396:HIS:HA	46:TF:399:THR:OG1	2.19	0.42
45:TI:5:ILE:HB	45:TI:135:PHE:CD1	2.54	0.42
45:TI:200:VAL:HG13	45:TI:268:MET:SD	2.59	0.42
45:TI:280:LYS:HB2	45:TI:280:LYS:HE3	1.90	0.42
45:TK:434:GLU:O	45:TK:437:ILE:HG12	2.19	0.42
46:TN:5:VAL:HA	46:TN:62:ARG:HG3	2.01	0.42
46:UB:299:MET:SD	46:UB:299:MET:N	2.89	0.42
46:UB:313:ALA:HB1	46:UB:367:PHE:CE1	2.54	0.42
46:UD:21:TRP:CZ2	46:UD:63:ALA:HB2	2.53	0.42
46:UD:325:GLU:OE2	45:UE:221:ARG:NH1	2.52	0.42
46:UF:318:ARG:HG2	46:UF:357:PRO:HA	2.01	0.42
45:UG:88:HIS:CE1	45:VE:280:LYS:HE3	2.54	0.42
45:UG:141:VAL:HG12	45:UG:171:ILE:O	2.19	0.42
45:UG:164:LYS:HD2	45:UG:164:LYS:HA	1.89	0.42
45:UG:245:ASP:N	45:UG:245:ASP:OD1	2.52	0.42
45:UG:394:LYS:HB2	45:UG:394:LYS:HE2	1.82	0.42
46:UH:118:ASP:HA	46:UH:121:ARG:HH12	1.83	0.42
45:UI:141:VAL:HG12	45:UI:171:ILE:O	2.19	0.42
46:UJ:3:GLU:H	46:UJ:3:GLU:CD	2.23	0.42
46:UJ:282:ARG:CZ	46:UJ:282:ARG:HA	2.48	0.42
45:UM:176:GLN:NE2	45:UM:177:VAL:HG23	2.34	0.42
45:UM:356:ASN:OD1	45:UM:357:TYR:N	2.51	0.42
45:VC:141:VAL:HG11	45:VC:172:TYR:HA	2.01	0.42
45:VG:209:ILE:HG13	45:VG:302:MET:CE	2.49	0.42
45:VG:224:TYR:CE1	46:VH:323:THR:HG21	2.54	0.42
46:VH:312:THR:HG22	46:VH:370:ASN:HB3	2.00	0.42
45:VI:178:SER:OG	46:VJ:347:ASN:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VI:222:PRO:HD2	46:VJ:324:LYS:CE	2.49	0.42
46:VJ:178:THR:HB	46:VJ:181:GLU:HG3	2.01	0.42
46:VL:285:THR:O	46:VL:289:LEU:HD23	2.19	0.42
46:VL:379:LYS:HE3	46:VL:379:LYS:HB2	1.68	0.42
45:VM:68:LEU:HD21	45:VM:118:CYS:SG	2.59	0.42
45:WA:214:ARG:NH2	45:WA:220:GLU:HA	2.33	0.42
45:WA:260:VAL:HB	46:WD:397:TRP:CH2	2.53	0.42
45:WG:166:LYS:HD2	45:WG:197:HIS:O	2.19	0.42
45:WG:211:ASP:HA	45:WG:214:ARG:CG	2.48	0.42
45:WK:429:GLU:O	45:WK:433:GLU:OE1	2.36	0.42
46:WL:105:HIS:HD2	46:WL:146:GLY:O	2.02	0.42
45:WM:18:ASN:O	45:WM:22:GLU:OE1	2.36	0.42
6:0F:32:ILE:HD13	45:DE:84:ARG:HB2	2.00	0.42
11:0S:261:LEU:HD12	46:AB:424:GLN:HG3	2.01	0.42
17:1F:166:VAL:HG22	45:GK:114:ILE:HD11	2.00	0.42
19:1J:201:LYS:NZ	45:IG:285:GLN:O	2.51	0.42
21:1L:282:LYS:NZ	46:BH:355:ASP:HB3	2.34	0.42
20:2K:379:ARG:NH1	45:GG:282:TYR:HB2	2.33	0.42
21:2L:658:ARG:HH12	46:BN:45:GLU:N	2.17	0.42
1:3A:152:LYS:HZ1	34:6R:78:ILE:N	2.15	0.42
27:3C:67:LYS:HZ1	45:LA:81:GLY:HA2	1.84	0.42
31:3I:243:LYS:HE3	45:FI:120:ASP:OD2	2.19	0.42
23:3O:343:ALA:HB2	46:UJ:359:LYS:NZ	2.33	0.42
14:3V:22:ARG:NH2	45:MA:422:ARG:HB3	2.32	0.42
36:5C:75:TYR:HB2	46:NJ:320:ARG:HH12	1.84	0.42
36:5D:102:TYR:HA	45:KM:393:HIS:CD2	2.53	0.42
37:5E:149:ARG:O	37:5E:152:GLN:HG3	2.19	0.42
34:5R:16:CYS:SG	34:5R:18:PRO:HD3	2.59	0.42
35:5S:123:GLY:O	35:5S:127:LEU:HD23	2.19	0.42
10:6Q:14:LEU:HB2	10:6Q:25:TRP:HE1	1.84	0.42
34:6R:397:SER:OG	46:EN:276:ARG:HB2	2.20	0.42
34:6R:485:TYR:HD1	34:6R:489:ASP:OD2	2.03	0.42
34:6R:549:MET:O	34:6R:553:ILE:HG12	2.19	0.42
34:7R:516:MET:HE3	34:7R:526:ALA:HB2	2.01	0.42
34:7R:542:TYR:CE2	34:7R:551:LEU:HD11	2.55	0.42
46:AB:6:HIS:O	46:AB:63:ALA:HA	2.19	0.42
46:AB:288:GLU:O	46:AB:291:GLN:HG3	2.18	0.42
46:AB:313:ALA:HB1	46:AB:367:PHE:CE1	2.53	0.42
45:AC:102:ASN:ND2	45:AC:407:TRP:O	2.52	0.42
45:AC:223:THR:HG23	45:AC:225:THR:H	1.84	0.42
45:AC:224:TYR:CD1	47:AC:501:GTP:C6	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:104:GLY:O	46:AD:147:MET:HG2	2.19	0.42
45:AE:200:VAL:HG13	45:AE:268:MET:HE2	2.01	0.42
45:AE:264:ARG:HA	45:AE:264:ARG:HD3	1.72	0.42
46:AF:36:TYR:CD2	46:AF:44:LEU:HD21	2.54	0.42
45:AG:161:TYR:HB3	45:AG:164:LYS:HG2	2.00	0.42
45:AG:339:ARG:HG2	45:AG:339:ARG:HH11	1.84	0.42
46:AH:132:GLY:HA3	46:AH:163:ILE:HB	2.01	0.42
45:AK:210:TYR:HB3	46:AL:324:LYS:HE3	2.00	0.42
45:AK:332:ILE:HD12	45:AK:351:PHE:HE2	1.84	0.42
45:AM:87:PHE:HB3	45:AM:92:LEU:HD11	2.00	0.42
46:AN:295:ASP:OD2	46:AN:296:ALA:N	2.52	0.42
45:BC:107:HIS:ND1	45:BC:107:HIS:O	2.53	0.42
45:BC:250:VAL:HG13	45:BC:254:GLU:HG3	2.01	0.42
46:BD:181:GLU:N	46:BD:182:PRO:HD2	2.34	0.42
45:BE:231:ILE:O	45:BE:235:ILE:HG12	2.20	0.42
46:BF:201:VAL:HG23	46:BF:301:CYS:SG	2.58	0.42
45:BG:152:LEU:O	45:BG:155:GLU:HG3	2.19	0.42
46:BH:391:ARG:HA	46:BH:391:ARG:HD2	1.79	0.42
46:BN:299:MET:HG3	46:BN:305:PRO:HG3	2.01	0.42
45:CA:188:ILE:HD11	45:CA:391:LEU:HB3	2.00	0.42
45:CA:268:MET:HE3	45:CA:378:ILE:HG13	2.02	0.42
46:CF:86:ARG:CG	46:DF:281:TYR:CE1	3.02	0.42
45:CG:203:MET:HG3	45:CG:384:ILE:HD11	2.01	0.42
45:CG:338:LYS:HD3	45:CG:340:THR:HG22	2.01	0.42
45:CI:9:VAL:HG13	45:CI:139:ASN:HB3	2.00	0.42
45:CI:14:ILE:HD11	45:CI:69:ASP:HB2	2.00	0.42
46:CL:133:PHE:CD1	46:CL:155:VAL:HG11	2.54	0.42
46:CL:287:PRO:O	46:CL:291:GLN:OE1	2.36	0.42
46:CL:287:PRO:HG3	46:CL:329:GLN:NE2	2.34	0.42
46:DD:293:MET:HE2	46:DD:367:PHE:CD1	2.54	0.42
46:DH:11:GLN:NE2	49:DH:501:GDP:O3B	2.44	0.42
46:DH:11:GLN:HB3	46:DH:72:THR:HG21	2.00	0.42
46:DH:289:LEU:HD13	46:DH:365:VAL:HG23	2.00	0.42
45:DI:308:ARG:HG3	45:DI:308:ARG:HH11	1.85	0.42
45:DK:269:LEU:HD12	45:DK:301:MET:HE2	2.01	0.42
46:DL:287:PRO:HA	46:DL:329:GLN:NE2	2.33	0.42
45:DM:265:ILE:HG22	45:DM:432:TYR:CE1	2.54	0.42
45:EA:31:GLN:HB2	45:EA:35:GLN:O	2.19	0.42
46:EB:2:ARG:HH22	45:EC:97:GLU:HA	1.84	0.42
45:EC:260:VAL:H	46:ED:397:TRP:HH2	1.66	0.42
46:ED:428:ALA:HB1	45:EE:401:LYS:HZ2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EG:211:ASP:HA	45:EG:214:ARG:HG2	2.00	0.42
46:EH:153:SER:HB2	46:EH:191:GLN:HE21	1.83	0.42
45:EI:414:GLU:CD	45:EI:416:GLY:H	2.23	0.42
46:EJ:313:ALA:HB1	46:EJ:367:PHE:HE1	1.84	0.42
45:EK:194:LEU:O	45:EK:198:THR:HG22	2.19	0.42
45:EK:324:VAL:HG12	45:EK:326:LYS:HG2	2.00	0.42
46:EL:139:LEU:HD22	46:EL:170:VAL:HG12	2.01	0.42
45:EM:33:ASP:HA	45:EM:85:GLN:HG3	2.01	0.42
45:EM:52:PHE:HZ	45:EM:239:THR:HG21	1.83	0.42
45:EM:91:GLN:CD	45:EM:121:ARG:HH21	2.22	0.42
45:EM:208:ALA:O	45:EM:212:ILE:HG12	2.18	0.42
46:EN:12:CYS:SG	46:EN:138:SER:HB2	2.59	0.42
46:EN:142:GLY:HA2	46:EN:184:ASN:OD1	2.19	0.42
46:EN:398:TYR:CD2	46:EN:408:PHE:HZ	2.37	0.42
46:FD:105:HIS:CD2	46:FD:150:LEU:HB2	2.54	0.42
46:FD:318:ARG:HH11	46:FD:358:PRO:HG3	1.84	0.42
46:FD:385:PHE:HE2	46:FD:412:GLU:HB3	1.85	0.42
45:FE:217:LEU:HD23	45:FE:217:LEU:HA	1.79	0.42
45:FG:296:PHE:HE1	45:FG:377:MET:HE3	1.84	0.42
46:FH:244:GLY:HA3	46:FH:354:CYS:HA	2.01	0.42
46:FN:391:ARG:HA	46:FN:391:ARG:HD2	1.80	0.42
45:GA:32:PRO:HB3	45:GA:83:TYR:CE1	2.54	0.42
45:GA:172:TYR:CD2	45:GA:203:MET:HG3	2.54	0.42
45:GC:108:TYR:HA	45:GC:112:LYS:HZ2	1.83	0.42
45:GE:229:ARG:HH12	45:GE:363:VAL:HG11	1.84	0.42
45:GE:317:MET:CE	45:GE:332:ILE:HD11	2.49	0.42
45:GI:135:PHE:HB2	45:GI:166:LYS:HG2	2.00	0.42
46:GN:3:GLU:HG3	46:GN:62:ARG:HH12	1.84	0.42
46:GN:388:MET:N	46:GN:388:MET:HE2	2.33	0.42
46:HB:130:LEU:HD11	46:HB:132:GLY:O	2.19	0.42
45:HE:179:THR:HG23	46:HF:351:SER:OG	2.19	0.42
46:HF:10:GLY:O	46:HF:14:ASN:ND2	2.52	0.42
45:HG:88:HIS:CE1	45:HG:90:GLU:HG3	2.54	0.42
46:HH:32:PRO:HG3	46:HH:81:PHE:CE1	2.54	0.42
46:HH:263:LEU:HG	46:HH:422:TYR:CE2	2.54	0.42
45:HK:141:VAL:HG22	45:HK:187:SER:HA	2.00	0.42
45:IA:20:CYS:HB2	45:IA:24:PHE:CZ	2.53	0.42
45:IA:119:LEU:HD11	45:IA:156:ARG:HG2	2.00	0.42
45:IC:3:GLU:OE2	45:IC:129:CYS:HB3	2.19	0.42
45:IC:17:GLY:HA2	45:IC:20:CYS:SG	2.58	0.42
45:IE:329:ASN:HA	45:IE:332:ILE:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IG:370:LYS:HD2	45:IG:370:LYS:O	2.18	0.42
45:II:72:PRO:O	45:II:76:ASP:HB2	2.19	0.42
45:IK:121:ARG:HA	45:IK:121:ARG:HE	1.85	0.42
45:IK:253:THR:HG23	45:IK:254:GLU:OE1	2.19	0.42
45:IM:186:ASN:OD1	45:IM:187:SER:N	2.52	0.42
46:IN:67:ASP:O	46:IN:92:PHE:HA	2.18	0.42
46:IN:119:VAL:O	46:IN:123:GLU:OE1	2.37	0.42
45:JA:395:PHE:CD2	45:JA:422:ARG:HD3	2.53	0.42
45:JC:238:LEU:HG	45:JC:318:MET:HE1	2.01	0.42
46:JF:190:HIS:CD2	46:JF:411:ALA:HA	2.44	0.42
45:JG:256:GLN:HB3	46:JJ:397:TRP:CZ2	2.55	0.42
46:JH:390:ARG:CZ	46:JH:390:ARG:HB3	2.49	0.42
46:JL:16:ILE:HD13	46:JL:226:ASN:OD1	2.18	0.42
46:JL:73:MET:O	46:JL:76:VAL:HG12	2.20	0.42
46:JL:187:LEU:HD21	46:JL:408:PHE:CD2	2.54	0.42
45:JM:20:CYS:HA	45:JM:232:ALA:CB	2.49	0.42
45:JM:419:SER:O	45:JM:422:ARG:N	2.52	0.42
46:JN:324:LYS:HB2	46:JN:328:GLU:OE1	2.19	0.42
46:KH:267:MET:HE2	46:KH:299:MET:HG2	2.01	0.42
45:KK:404:PHE:CE1	46:KL:259:PRO:HA	2.54	0.42
46:LB:121:ARG:O	46:LB:125:GLU:HG2	2.18	0.42
45:LG:27:GLU:HG2	45:LG:243:ARG:HH12	1.84	0.42
45:LK:96:LYS:HB3	45:LK:97:GLU:OE1	2.19	0.42
45:LK:397:LEU:HD23	46:LL:346:PRO:HD3	2.00	0.42
45:LM:387:VAL:HG12	45:LM:390:ARG:NH2	2.34	0.42
45:MA:261:PRO:HA	46:MD:394:PHE:CE2	2.54	0.42
45:MC:64:ARG:NH1	45:MC:129:CYS:SG	2.92	0.42
46:MF:404:ASP:OD1	46:MF:406:MET:HB2	2.19	0.42
45:MG:210:TYR:CE1	45:MG:227:LEU:HD21	2.54	0.42
46:MH:200:MET:HE3	46:MH:268:ILE:HG21	2.01	0.42
45:MI:101:ASN:OD1	46:MJ:252:LYS:HE3	2.19	0.42
46:MN:1:MET:HG3	46:MN:2:ARG:N	2.32	0.42
45:NA:87:PHE:HB3	45:NA:92:LEU:HD11	2.00	0.42
45:NA:96:LYS:HA	45:NA:96:LYS:HD2	1.83	0.42
46:NB:39:ASP:H	46:NB:43:GLN:HE22	1.66	0.42
46:NB:252:LYS:HG2	46:NB:256:ASN:ND2	2.32	0.42
46:NB:269:GLY:HA2	46:NB:300:MET:SD	2.59	0.42
46:ND:95:THR:OG1	46:ND:108:GLU:OE2	2.36	0.42
46:NF:211:CYS:HB2	46:NF:217:LEU:HD21	2.01	0.42
45:NG:127:ASP:OD1	45:NG:128:ASN:N	2.52	0.42
46:NH:39:ASP:OD1	46:NH:40:SER:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NI:3:GLU:HG2	45:NI:132:LEU:HA	2.01	0.42
46:NL:2:ARG:HB3	46:NL:131:GLN:HG3	2.01	0.42
45:NM:37:PRO:HB2	45:NM:39:ASP:OD1	2.19	0.42
45:OA:222:PRO:HG2	46:OB:324:LYS:HD2	2.01	0.42
46:OB:306:ARG:HD2	46:OB:340:TYR:CE2	2.54	0.42
45:OC:288:VAL:HG11	45:OC:323:VAL:HG13	2.01	0.42
46:OD:248:SER:HA	46:OD:252:LYS:HE3	2.00	0.42
45:OE:253:THR:O	45:OE:256:GLN:NE2	2.52	0.42
45:OE:394:LYS:O	45:OE:398:MET:HG2	2.20	0.42
45:OG:115:VAL:HG11	45:OG:152:LEU:HD23	2.01	0.42
45:OG:119:LEU:HA	45:OG:122:ILE:HG22	2.01	0.42
46:OH:207:LEU:HA	46:OH:210:ILE:HG22	2.00	0.42
45:OI:3:GLU:OE2	45:OI:131:GLY:N	2.52	0.42
45:OI:336:LYS:HA	45:OI:336:LYS:HD3	1.82	0.42
46:OL:35:THR:CG2	46:OL:37:HIS:CE1	3.01	0.42
46:OL:100:ASN:HB3	46:OL:103:LYS:HB3	2.01	0.42
45:OM:324:VAL:HG12	45:OM:326:LYS:HG2	2.02	0.42
46:ON:109:GLY:O	46:ON:113:ILE:HG23	2.18	0.42
45:PA:2:ARG:NH2	46:PD:69:GLU:HG2	2.32	0.42
45:PE:70:LEU:HD13	45:PE:145:THR:OG1	2.19	0.42
45:PE:141:VAL:HG22	45:PE:187:SER:HA	2.01	0.42
46:PF:86:ARG:O	46:PF:89:ASN:HB2	2.19	0.42
45:PG:278:ALA:HA	45:PG:369:ALA:HB2	2.00	0.42
45:PG:319:TYR:CE2	45:PG:328:VAL:HG22	2.54	0.42
46:PJ:5:VAL:HG12	46:PJ:62:ARG:HD3	2.01	0.42
46:PJ:389:PHE:HD2	46:PJ:390:ARG:NH2	2.17	0.42
45:PK:120:ASP:HB3	45:PK:124:LYS:HZ3	1.84	0.42
45:PK:229:ARG:HH12	45:PK:363:VAL:HG11	1.84	0.42
46:PN:2:ARG:HB3	46:PN:131:GLN:HE21	1.85	0.42
46:PN:164:MET:O	46:PN:197:ASP:HB2	2.19	0.42
46:PN:232:ALA:HB1	46:PN:268:ILE:HD12	2.01	0.42
45:QC:171:ILE:HG13	45:QC:171:ILE:O	2.19	0.42
45:QG:245:ASP:OD2	45:QG:246:GLY:N	2.52	0.42
45:QG:430:LYS:HD3	45:QG:430:LYS:C	2.39	0.42
46:QH:183:TYR:O	46:QH:187:LEU:HD13	2.18	0.42
45:QI:89:PRO:HG2	45:RI:280:LYS:HD3	2.00	0.42
45:QI:319:TYR:CE2	45:QI:375:VAL:HB	2.54	0.42
46:QJ:258:ILE:O	46:QJ:258:ILE:HG13	2.19	0.42
46:QJ:394:PHE:HD1	46:QJ:397:TRP:CH2	2.36	0.42
46:QL:69:GLU:HA	46:QL:70:PRO:HD3	1.85	0.42
46:QL:225:LEU:HD13	46:QL:225:LEU:HA	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QM:171:ILE:HG22	45:QM:204:LEU:HB2	2.01	0.42
45:RC:422:ARG:HH11	45:RC:425:LEU:HD12	1.83	0.42
46:RD:65:LEU:HD22	46:RD:90:PHE:HE1	1.84	0.42
46:RD:69:GLU:CD	46:RD:71:GLY:H	2.23	0.42
46:RD:203:ASP:OD2	46:RD:205:GLU:HB3	2.19	0.42
45:RE:71:GLU:HA	45:RE:72:PRO:HD3	1.85	0.42
45:RE:184:PRO:O	45:RE:188:ILE:HG12	2.19	0.42
45:RE:194:LEU:HB2	45:RE:198:THR:OG1	2.19	0.42
45:RE:261:PRO:HA	46:RF:394:PHE:HD1	1.84	0.42
46:RF:147:MET:O	46:RF:151:LEU:HD23	2.19	0.42
45:RG:4:VAL:HG12	45:RG:133:GLN:HB2	2.01	0.42
45:RG:383:ALA:O	45:RG:386:GLU:HG2	2.19	0.42
46:RH:60:VAL:HG11	46:RH:86:ARG:HD2	2.00	0.42
46:RH:105:HIS:CE1	46:RH:150:LEU:HD12	2.53	0.42
46:RH:259:PRO:HA	45:RI:404:PHE:CE1	2.55	0.42
46:RH:377:MET:O	46:RH:380:ARG:HG2	2.19	0.42
46:RJ:153:SER:O	46:RJ:157:GLU:OE1	2.37	0.42
46:RJ:205:GLU:HA	46:RJ:208:TYR:HD2	1.84	0.42
46:RL:271:ALA:HB3	46:RL:293:MET:CE	2.49	0.42
46:RL:379:LYS:O	46:RL:383:GLU:OE1	2.37	0.42
45:RM:118:CYS:O	45:RM:122:ILE:HG12	2.19	0.42
46:SB:4:ILE:HG23	46:SB:50:TYR:HE2	1.83	0.42
45:SC:11:GLN:HE21	47:SC:501:GTP:PB	2.42	0.42
45:SC:387:VAL:HG12	45:SC:390:ARG:NH2	2.31	0.42
45:SG:333:ALA:O	45:SG:337:THR:HG23	2.18	0.42
46:SJ:258:ILE:HG13	46:SJ:258:ILE:O	2.20	0.42
45:SK:137:VAL:HG13	45:SK:168:GLY:HA2	2.02	0.42
46:SL:318:ARG:HG2	46:SL:358:PRO:HD3	2.01	0.42
46:SN:10:GLY:O	46:SN:14:ASN:ND2	2.52	0.42
46:SN:260:PHE:HB2	46:SN:263:LEU:HD13	2.01	0.42
46:TB:322:SER:HB2	45:TC:223:THR:HA	2.00	0.42
45:TC:88:HIS:ND1	45:TC:89:PRO:HD2	2.33	0.42
45:TC:192:HIS:ND1	45:TC:421:ALA:HA	2.33	0.42
45:TC:348:PRO:HD2	46:TD:388:MET:HE1	2.00	0.42
45:TE:10:GLY:O	45:TE:14:ILE:HG12	2.19	0.42
46:TH:36:TYR:CD2	46:TH:44:LEU:HD21	2.54	0.42
46:TH:51:TYR:O	46:TH:62:ARG:NH2	2.43	0.42
46:TH:58:ARG:HH21	46:UH:281:TYR:HA	1.84	0.42
46:TH:318:ARG:O	46:TH:363:MET:HA	2.20	0.42
45:TK:201:ALA:HB3	45:TK:267:PHE:CD1	2.52	0.42
45:TK:234:VAL:O	45:TK:238:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:216:LYS:HB2	46:TL:216:LYS:HE3	1.80	0.42
45:TM:9:VAL:HG13	45:TM:139:ASN:HB3	2.02	0.42
45:TM:53:PHE:CE2	45:TM:63:PRO:HG3	2.54	0.42
45:UA:19:ALA:HA	45:UA:22:GLU:OE1	2.18	0.42
46:UD:316:LEU:HB2	46:UD:366:THR:HG22	2.02	0.42
45:UE:217:LEU:HD21	45:UE:368:LEU:HD22	2.00	0.42
45:UE:315:CYS:O	45:UE:351:PHE:HA	2.18	0.42
46:UH:323:THR:HG22	46:UH:353:ILE:HG13	2.01	0.42
46:UJ:166:THR:HG21	46:UJ:192:LEU:HD11	2.01	0.42
45:UK:50:ASN:O	45:UK:64:ARG:NH2	2.43	0.42
45:UK:408:TYR:HB3	45:UK:413:MET:HG3	2.01	0.42
46:UL:31:ASP:OD2	46:UL:37:HIS:ND1	2.52	0.42
46:UL:217:LEU:HB2	46:UL:220:PRO:HG3	2.01	0.42
45:UM:271:SER:HB3	45:UM:377:MET:SD	2.59	0.42
46:UN:318:ARG:HE	46:UN:364:ALA:HB3	1.84	0.42
45:VA:71:GLU:HG3	45:VA:98:ASP:HB2	2.01	0.42
45:VA:401:LYS:HB2	45:VA:401:LYS:HE3	1.71	0.42
45:VC:107:HIS:ND1	45:VC:107:HIS:O	2.52	0.42
45:VE:325:PRO:HB2	46:VH:208:TYR:OH	2.18	0.42
45:VE:387:VAL:HA	45:VE:390:ARG:HG2	2.00	0.42
46:VF:394:PHE:HD2	46:VF:397:TRP:CZ3	2.37	0.42
45:VG:261:PRO:HA	46:VJ:394:PHE:HD2	1.83	0.42
46:VH:9:GLY:HA2	46:VH:66:MET:O	2.19	0.42
46:VH:190:HIS:HD2	46:VH:411:ALA:HA	1.83	0.42
45:VK:236:SER:HA	45:VK:239:THR:HG22	2.02	0.42
45:WC:190:SER:O	45:WC:194:LEU:HG	2.18	0.42
46:WD:290:THR:CG2	46:WD:329:GLN:HE21	2.32	0.42
46:WD:326:VAL:O	46:WD:330:MET:HG2	2.19	0.42
45:WE:268:MET:HB3	45:WE:268:MET:HE2	1.82	0.42
45:WE:394:LYS:NZ	46:WF:347:ASN:OD1	2.52	0.42
45:WI:75:ILE:O	45:WI:79:ARG:HG2	2.19	0.42
45:WK:70:LEU:HB3	45:WK:97:GLU:O	2.19	0.42
45:WK:231:ILE:O	45:WK:235:ILE:HG12	2.19	0.42
46:WL:83:GLN:HE21	46:WL:84:LEU:HD22	1.83	0.42
45:WM:167:LEU:HG	45:WM:200:VAL:HB	2.00	0.42
46:WN:31:ASP:OD1	46:WN:34:GLY:N	2.53	0.42
46:WN:329:GLN:OE1	46:WN:330:MET:HE2	2.19	0.42
45:CE:107:HIS:ND1	45:CE:107:HIS:O	2.52	0.42
45:DC:239:THR:HG23	45:DC:243:ARG:HE	1.84	0.42
45:DC:288:VAL:HG21	45:DC:327:ASP:CB	2.49	0.42
11:OS:275:TYR:CD1	46:WB:122:LYS:HE2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:1J:262:VAL:HG22	45:II:372:MET:SD	2.59	0.42
21:1L:901:LYS:N	46:CB:320:ARG:HH12	2.18	0.42
24:1P:392:LYS:HD3	45:TA:370:LYS:HE3	2.01	0.42
15:1X:81:ARG:HE	46:MF:276:ARG:HB2	1.85	0.42
28:2F:81:LYS:NZ	46:GF:128:ASP:HA	2.34	0.42
31:3I:197:GLN:HE21	45:FK:123:ARG:HA	1.84	0.42
23:3O:246:GLU:OE1	46:UN:276:ARG:NH2	2.51	0.42
34:4R:604:SER:HA	34:4R:607:VAL:HG12	2.01	0.42
36:5C:33:ALA:HA	36:5C:36:ARG:HH21	1.83	0.42
37:5E:104:MET:HG3	37:5E:105:LYS:N	2.33	0.42
37:5H:56:VAL:HA	46:ON:276:ARG:NH1	2.32	0.42
10:5Q:53:ASN:OD1	45:AK:400:ALA:HA	2.20	0.42
34:5R:429:LYS:HE2	34:5R:429:LYS:HB3	1.81	0.42
34:5R:518:SER:O	34:5R:520:PRO:HD3	2.18	0.42
39:6F:132:HIS:CE1	46:IH:359:LYS:HZ3	2.37	0.42
10:6Q:20:LYS:HA	10:6Q:20:LYS:HD2	1.75	0.42
34:7R:429:LYS:HE2	34:7R:429:LYS:HB3	1.87	0.42
44:8R:99:UNK:CB	46:PL:276:ARG:HH12	2.33	0.42
44:8R:144:ALA:HA	44:8R:147:TYR:CD1	2.54	0.42
45:AC:181:VAL:HG12	46:AD:347:ASN:O	2.20	0.42
46:AD:239:CYS:SG	46:AD:247:ASN:HA	2.59	0.42
46:AF:262:ARG:HH12	46:AF:421:GLU:HG3	1.83	0.42
46:AJ:172:SER:HA	46:AJ:173:PRO:HD3	1.89	0.42
45:AK:105:ARG:HA	45:AK:411:GLU:OE1	2.19	0.42
46:AL:318:ARG:HH11	46:AL:318:ARG:HG2	1.84	0.42
45:AM:339:ARG:NE	45:AM:339:ARG:HA	2.34	0.42
46:AN:21:TRP:CZ3	46:AN:61:PRO:HB3	2.55	0.42
45:BC:192:HIS:NE2	45:BC:424:ASP:OD2	2.52	0.42
45:BC:257:THR:HA	46:BF:397:TRP:CH2	2.54	0.42
46:BF:3:GLU:CD	46:BF:3:GLU:H	2.22	0.42
46:BF:378:PHE:HA	46:BF:381:VAL:HG22	2.01	0.42
45:BG:85:GLN:N	45:BG:85:GLN:OE1	2.53	0.42
46:BL:20:PHE:O	46:BL:24:ILE:HG12	2.20	0.42
46:BL:345:ILE:O	46:BL:345:ILE:HG23	2.18	0.42
45:BM:287:SER:O	45:BM:291:ILE:HG12	2.19	0.42
45:BM:324:VAL:HG12	45:BM:326:LYS:HG2	2.01	0.42
46:BN:276:ARG:HA	46:BN:279:GLN:HB2	2.01	0.42
46:CB:183:TYR:OH	46:CB:393:ALA:O	2.31	0.42
46:CB:334:GLN:HA	46:CB:341:PHE:CE2	2.53	0.42
45:CG:171:ILE:HG23	45:CG:204:LEU:O	2.19	0.42
45:CG:342:GLN:HE21	45:CG:342:GLN:CA	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CI:89:PRO:HD3	45:DI:283:HIS:ND1	2.34	0.42
45:CI:101:ASN:HA	45:CI:144:GLY:H	1.83	0.42
46:CJ:198:GLU:HG2	46:CJ:266:PHE:CE2	2.53	0.42
46:CL:259:PRO:HA	45:CM:404:PHE:CD1	2.54	0.42
46:CN:215:LEU:HB3	46:CN:217:LEU:HD23	2.01	0.42
46:DD:55:THR:H	46:ED:283:ALA:HB2	1.85	0.42
45:DE:9:VAL:O	45:DE:139:ASN:HA	2.19	0.42
45:DE:191:THR:HA	45:DE:194:LEU:HG	2.02	0.42
45:DG:8:HIS:HD2	45:DG:67:PHE:CE1	2.37	0.42
46:DH:409:THR:O	46:DH:412:GLU:HG3	2.20	0.42
45:DI:5:ILE:HB	45:DI:135:PHE:CD2	2.54	0.42
45:DI:114:ILE:HD11	45:DI:149:LEU:HD11	2.00	0.42
45:DI:169:PHE:HD1	45:DI:202:VAL:HB	1.84	0.42
45:DK:91:GLN:OE1	45:DK:91:GLN:N	2.52	0.42
45:DK:349:THR:HG23	46:DL:179:VAL:HA	2.01	0.42
46:DL:139:LEU:CD1	46:DL:168:SER:HB3	2.49	0.42
45:DM:88:HIS:HB3	45:DM:91:GLN:HG2	2.01	0.42
45:DM:272:TYR:N	45:DM:302:MET:HE1	2.34	0.42
46:DN:391:ARG:HA	46:DN:391:ARG:HD2	1.81	0.42
45:EA:141:VAL:HG12	45:EA:171:ILE:O	2.19	0.42
45:EA:296:PHE:CE2	45:EA:335:ILE:HG13	2.54	0.42
45:EC:79:ARG:O	45:EC:84:ARG:HG2	2.18	0.42
45:EC:434:GLU:O	45:EC:437:ILE:HG12	2.20	0.42
46:ED:86:ARG:HD2	46:FD:281:TYR:HB3	2.01	0.42
45:EE:419:SER:O	45:EE:423:GLU:HG2	2.19	0.42
46:EH:11:GLN:NE2	49:EH:501:GDP:O3B	2.47	0.42
46:EH:414:ASN:O	46:EH:418:LEU:HD23	2.19	0.42
46:FF:345:ILE:HG23	46:FF:345:ILE:O	2.18	0.42
46:FH:398:TYR:HB3	46:FH:403:MET:HE3	2.02	0.42
45:FI:102:ASN:ND2	45:FI:105:ARG:HG3	2.33	0.42
45:FI:223:THR:HG23	45:FI:225:THR:H	1.84	0.42
45:FK:194:LEU:O	45:FK:198:THR:HG22	2.19	0.42
46:GB:36:TYR:HE2	46:GB:43:GLN:HB3	1.84	0.42
45:GC:256:GLN:NE2	46:GF:397:TRP:HH2	2.16	0.42
46:GD:21:TRP:CZ2	46:GD:63:ALA:HB2	2.54	0.42
46:GD:391:ARG:HA	46:GD:391:ARG:HD2	1.71	0.42
46:GH:395:LEU:HD23	46:GH:395:LEU:HA	1.81	0.42
45:GI:387:VAL:HA	45:GI:390:ARG:HG2	2.01	0.42
45:GK:231:ILE:O	45:GK:235:ILE:HG12	2.20	0.42
46:GN:396:HIS:HA	46:GN:399:THR:HG22	2.01	0.42
46:HB:121:ARG:HD2	46:HB:122:LYS:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HD:51:TYR:HE1	46:HD:61:PRO:HG3	1.84	0.42
45:HE:107:HIS:ND1	45:HE:107:HIS:O	2.52	0.42
46:HH:287:PRO:HG3	46:HH:329:GLN:NE2	2.35	0.42
45:HI:176:GLN:HE22	45:HI:177:VAL:HG23	1.84	0.42
45:HK:176:GLN:OE1	45:HK:176:GLN:N	2.52	0.42
45:HK:258:ASN:HB2	45:HK:259:LEU:HD12	2.01	0.42
45:HK:324:VAL:HG12	45:HK:326:LYS:HG2	2.00	0.42
45:HK:349:THR:O	46:HN:179:VAL:HG23	2.19	0.42
46:HL:5:VAL:HG12	46:HL:62:ARG:HD3	2.00	0.42
46:HL:46:ARG:O	46:HL:49:VAL:HG22	2.19	0.42
46:HN:306:ARG:HA	46:HN:340:TYR:HE1	1.84	0.42
46:ID:173:PRO:HD3	46:ID:380:ARG:CZ	2.48	0.42
46:ID:272:PRO:HG3	46:ID:284:LEU:HD11	2.02	0.42
45:IG:2:ARG:O	45:IG:51:THR:HA	2.19	0.42
45:IG:346:TRP:CD1	46:IJ:391:ARG:HG3	2.55	0.42
45:II:275:ILE:HG23	45:II:368:LEU:HD11	2.00	0.42
46:IJ:385:PHE:CE2	46:IJ:412:GLU:HB3	2.55	0.42
45:IM:235:ILE:O	45:IM:239:THR:HG22	2.19	0.42
45:IM:288:VAL:HA	45:IM:291:ILE:HG12	2.00	0.42
46:JB:151:LEU:O	46:JB:155:VAL:HG22	2.19	0.42
46:JB:186:THR:HA	46:JB:189:VAL:HG12	2.01	0.42
46:JB:203:ASP:OD2	46:JB:302:ALA:N	2.29	0.42
45:JG:149:LEU:HA	45:JG:149:LEU:HD12	1.82	0.42
46:JJ:101:TRP:H	46:JJ:398:TYR:HE2	1.65	0.42
46:JL:203:ASP:OD2	46:JL:205:GLU:HB3	2.20	0.42
45:JM:22:GLU:O	45:JM:26:LEU:HD23	2.18	0.42
45:JM:377:MET:SD	45:JM:379:SER:HB3	2.60	0.42
45:JM:387:VAL:HA	45:JM:390:ARG:HG2	2.01	0.42
46:JN:119:VAL:HA	46:JN:122:LYS:HE3	2.02	0.42
46:JN:376:GLU:N	46:JN:376:GLU:OE1	2.52	0.42
46:KB:20:PHE:HA	46:KB:230:SER:OG	2.19	0.42
45:KC:71:GLU:HA	45:KC:72:PRO:HD3	1.89	0.42
45:KC:81:GLY:O	45:KC:84:ARG:HG3	2.18	0.42
46:KD:153:SER:O	46:KD:157:GLU:HG3	2.19	0.42
46:KD:173:PRO:HG2	46:KD:380:ARG:HD3	2.01	0.42
45:KE:352:LYS:HA	46:KH:177:ASP:O	2.19	0.42
45:KG:296:PHE:HD2	45:KG:335:ILE:HD12	1.84	0.42
45:KI:56:THR:OG1	45:LI:283:HIS:O	2.31	0.42
45:KM:309:HIS:CD2	45:NM:282:TYR:CE1	3.06	0.42
46:LB:21:TRP:CZ3	46:LB:61:PRO:HB3	2.53	0.42
46:LB:324:LYS:HG3	46:LB:325:GLU:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LD:86:ARG:HH22	46:MD:281:TYR:CB	2.32	0.42
46:LF:36:TYR:CD1	46:LF:44:LEU:HD21	2.53	0.42
46:LF:164:MET:O	46:LF:197:ASP:HB2	2.18	0.42
45:LI:270:SER:O	45:LI:302:MET:HB3	2.19	0.42
45:LK:260:VAL:HG23	46:LN:397:TRP:HE1	1.83	0.42
45:LM:187:SER:O	45:LM:191:THR:HG23	2.18	0.42
45:MA:69:ASP:OD2	45:MA:70:LEU:N	2.51	0.42
46:MB:21:TRP:CZ3	46:MB:61:PRO:HB3	2.54	0.42
46:MB:304:ASP:HB3	46:MB:307:HIS:CD2	2.54	0.42
46:MB:390:ARG:NE	46:MB:390:ARG:HA	2.34	0.42
45:MC:127:ASP:OD1	45:MC:128:ASN:N	2.52	0.42
45:MG:377:MET:SD	45:MG:379:SER:HB3	2.59	0.42
45:MI:205:ASP:OD1	45:MI:303:ALA:HA	2.20	0.42
45:MI:254:GLU:OE2	46:ML:99:ASN:ND2	2.51	0.42
46:ML:9:GLY:HA2	46:ML:66:MET:O	2.19	0.42
46:ML:293:MET:HE2	46:ML:367:PHE:HD1	1.84	0.42
45:MM:268:MET:HG3	45:MM:380:ASN:HB2	2.01	0.42
45:MM:419:SER:O	45:MM:423:GLU:OE1	2.36	0.42
46:NB:32:PRO:HB2	46:NB:83:GLN:NE2	2.35	0.42
46:NB:162:ARG:HE	46:NB:163:ILE:H	1.68	0.42
46:NB:406:MET:O	46:NB:410:GLU:OE1	2.37	0.42
45:NC:7:ILE:HG23	45:NC:137:VAL:HG23	2.01	0.42
46:NH:86:ARG:HA	46:OH:281:TYR:CD2	2.54	0.42
45:NK:1:MET:O	45:NK:131:GLY:HA3	2.19	0.42
45:NM:298:PRO:HG3	45:NM:308:ARG:NE	2.34	0.42
46:NN:105:HIS:CE1	46:NN:150:LEU:HD12	2.54	0.42
45:OA:88:HIS:ND1	45:OA:90:GLU:HG3	2.34	0.42
45:OA:128:ASN:OD1	45:OA:129:CYS:N	2.52	0.42
46:OB:133:PHE:HD2	46:OB:155:VAL:HG11	1.85	0.42
46:OD:200:MET:HE3	46:OD:266:PHE:HB2	2.00	0.42
46:OD:208:TYR:HA	46:OD:211:CYS:SG	2.58	0.42
45:OE:289:ALA:O	45:OE:292:THR:HG22	2.19	0.42
46:OH:116:VAL:HA	46:OH:119:VAL:HG12	2.01	0.42
46:OH:257:LEU:O	46:OH:259:PRO:HD3	2.19	0.42
45:OI:211:ASP:O	45:OI:214:ARG:HG3	2.18	0.42
45:OK:88:HIS:CD2	45:OK:90:GLU:HB3	2.54	0.42
45:OM:68:LEU:HD13	45:OM:93:ILE:HB	2.00	0.42
45:OM:180:ALA:HA	46:ON:350:LYS:NZ	2.35	0.42
46:ON:258:ILE:HD12	46:ON:264:HIS:HB3	2.01	0.42
46:ON:314:SER:HA	46:ON:350:LYS:HB3	2.01	0.42
46:PB:156:ARG:HH11	46:PB:164:MET:HE3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PC:352:LYS:HB2	45:PC:352:LYS:HE2	1.80	0.42
45:PC:387:VAL:HA	45:PC:390:ARG:HG2	2.01	0.42
45:PE:67:PHE:HB2	45:PE:92:LEU:HD13	2.01	0.42
46:PF:229:VAL:O	46:PF:233:MET:HG2	2.19	0.42
46:PJ:266:PHE:HE1	46:PJ:370:ASN:HB2	1.84	0.42
45:PM:124:LYS:HE2	45:PM:124:LYS:HB2	1.87	0.42
45:PM:171:ILE:HG22	45:PM:204:LEU:HB3	2.00	0.42
45:PM:398:MET:CE	46:PN:345:ILE:HA	2.49	0.42
46:QB:3:GLU:HB3	46:QB:49:VAL:HA	2.01	0.42
46:QB:205:GLU:OE2	46:QB:302:ALA:HB2	2.19	0.42
45:QC:68:LEU:HD21	45:QC:118:CYS:SG	2.60	0.42
45:QC:384:ILE:O	45:QC:387:VAL:HG12	2.20	0.42
46:QD:66:MET:HE2	46:QD:147:MET:HG2	2.01	0.42
45:QE:141:VAL:HG12	45:QE:171:ILE:O	2.19	0.42
45:QE:143:GLY:HA3	47:QE:501:GTP:O2B	2.20	0.42
45:QE:384:ILE:O	45:QE:387:VAL:HG22	2.19	0.42
46:QF:44:LEU:HD23	46:QF:44:LEU:HA	1.90	0.42
46:QF:297:LYS:HD3	46:QF:297:LYS:HA	1.83	0.42
45:QI:88:HIS:NE2	45:QI:90:GLU:HG2	2.35	0.42
45:QM:217:LEU:HG	45:QM:219:ILE:HG13	2.02	0.42
46:RB:135:ILE:CD1	46:RB:152:ILE:HD11	2.48	0.42
46:RB:139:LEU:HD13	46:RB:168:SER:HB3	2.01	0.42
46:RB:258:ILE:HG22	46:RB:266:PHE:HZ	1.84	0.42
45:RC:31:GLN:N	45:RC:31:GLN:OE1	2.52	0.42
46:RF:380:ARG:O	46:RF:383:GLU:HG2	2.19	0.42
45:RG:268:MET:CE	45:RG:380:ASN:HB2	2.50	0.42
45:RG:274:PRO:HG3	45:RG:286:LEU:HD12	2.01	0.42
45:RI:225:THR:O	45:RI:229:ARG:HG2	2.19	0.42
45:RI:251:ASP:OD1	45:RI:252:ILE:N	2.52	0.42
46:RL:12:CYS:HA	46:RL:15:GLN:NE2	2.30	0.42
46:RL:74:ASP:OD1	46:RL:77:ARG:NH2	2.46	0.42
46:RL:255:VAL:HA	45:RM:407:TRP:CH2	2.54	0.42
45:RM:317:MET:HB3	45:RM:319:TYR:CE1	2.54	0.42
46:RN:5:VAL:HA	46:RN:62:ARG:HG3	2.01	0.42
46:RN:391:ARG:HD2	46:RN:391:ARG:HA	1.83	0.42
45:SE:254:GLU:O	45:SE:255:PHE:HD2	2.02	0.42
45:SE:288:VAL:HA	45:SE:291:ILE:HG12	2.00	0.42
45:SE:396:ASP:OD1	45:SE:422:ARG:NH1	2.52	0.42
46:SF:3:GLU:HB2	46:SF:127:CYS:SG	2.59	0.42
46:SF:391:ARG:HD2	46:SF:391:ARG:HA	1.83	0.42
46:SH:86:ARG:HG2	46:SH:86:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SH:257:LEU:HB3	46:SH:266:PHE:CE1	2.54	0.42
45:SI:115:VAL:HG21	45:SI:152:LEU:CD2	2.49	0.42
45:SI:377:MET:HE2	45:SI:379:SER:HB3	2.01	0.42
45:SI:390:ARG:O	45:SI:394:LYS:HG2	2.18	0.42
46:SJ:221:THR:HG23	46:SJ:224:ASP:H	1.84	0.42
46:SL:174:LYS:HB2	46:SL:205:GLU:OE1	2.18	0.42
45:SM:56:THR:HG23	45:SM:58:ALA:H	1.84	0.42
46:TB:1:MET:O	46:TB:2:ARG:HG2	2.19	0.42
46:TB:150:LEU:HG	46:TB:154:LYS:HZ1	1.82	0.42
45:TC:51:THR:HG22	45:TC:52:PHE:CD2	2.54	0.42
46:TD:186:THR:HG23	46:TD:415:MET:SD	2.59	0.42
45:TE:127:ASP:OD1	45:TE:128:ASN:N	2.53	0.42
45:TE:214:ARG:HH21	45:TE:215:ARG:HH21	1.68	0.42
46:TF:102:ALA:O	46:TF:106:TYR:HB2	2.18	0.42
46:TF:116:VAL:O	46:TF:120:VAL:HG23	2.19	0.42
46:TF:257:LEU:HB3	46:TF:266:PHE:CZ	2.54	0.42
46:TH:6:HIS:HD2	46:TH:7:ILE:N	2.17	0.42
46:TL:2:ARG:NE	45:TM:97:GLU:HA	2.23	0.42
46:TL:252:LYS:HZ1	47:TM:501:GTP:PG	2.42	0.42
45:TM:33:ASP:HA	45:TM:85:GLN:HE21	1.84	0.42
45:TM:229:ARG:NH2	45:TM:368:LEU:HB3	2.34	0.42
45:TM:292:THR:HG21	45:TM:331:SER:HB3	2.00	0.42
46:UB:30:ILE:HD13	46:UB:36:TYR:HA	2.01	0.42
46:UB:273:LEU:H	46:UB:292:GLN:HE22	1.67	0.42
45:UC:385:ALA:HA	45:UC:388:PHE:HD2	1.84	0.42
46:UD:377:MET:O	46:UD:380:ARG:HG2	2.18	0.42
45:UE:231:ILE:O	45:UE:235:ILE:HG12	2.19	0.42
46:UF:201:VAL:HG13	46:UF:301:CYS:SG	2.59	0.42
45:UG:434:GLU:O	45:UG:437:ILE:HG12	2.19	0.42
46:UH:304:ASP:HB3	46:UH:307:HIS:CG	2.55	0.42
45:UI:10:GLY:O	45:UI:14:ILE:HG12	2.19	0.42
46:UJ:167:PHE:CZ	46:UJ:200:MET:HG3	2.54	0.42
46:UJ:180:VAL:O	46:UJ:180:VAL:HG12	2.19	0.42
46:UJ:415:MET:O	46:UJ:419:VAL:HG23	2.19	0.42
45:UK:3:GLU:OE2	45:UK:130:THR:N	2.53	0.42
46:UL:127:CYS:SG	46:UL:130:LEU:HB3	2.60	0.42
46:UL:184:ASN:OD1	46:UL:185:ALA:N	2.51	0.42
45:UM:326:LYS:HE2	46:UN:220:PRO:CD	2.42	0.42
45:VA:88:HIS:HB3	45:VA:91:GLN:HG2	2.01	0.42
45:VA:175:PRO:HD2	45:VA:207:GLU:OE2	2.19	0.42
45:VA:224:TYR:O	45:VA:227:LEU:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VB:350:LYS:HA	46:VB:350:LYS:HE2	2.01	0.42
45:VC:145:THR:OG1	47:VC:501:GTP:O3G	2.26	0.42
46:VD:293:MET:HG3	46:VD:365:VAL:HG11	2.01	0.42
45:VE:174:SER:HB2	45:VE:177:VAL:O	2.19	0.42
46:VH:309:ARG:NH2	46:VH:426:GLN:O	2.36	0.42
45:VI:141:VAL:HG11	45:VI:172:TYR:HA	2.00	0.42
45:VI:261:PRO:HA	46:VL:394:PHE:CE1	2.55	0.42
46:VJ:164:MET:SD	46:VJ:166:THR:OG1	2.75	0.42
46:VL:3:GLU:O	46:VL:4:ILE:HD13	2.19	0.42
46:VL:207:LEU:HA	46:VL:210:ILE:HG12	2.01	0.42
45:WG:333:ALA:O	45:WG:337:THR:HG23	2.19	0.42
46:WH:117:LEU:HA	46:WH:120:VAL:HG12	2.01	0.42
45:WK:326:LYS:HE2	46:WN:220:PRO:CB	2.48	0.42
45:WK:387:VAL:O	45:WK:391:LEU:HD23	2.19	0.42
46:WL:1:MET:HA	46:WL:1:MET:HE2	2.00	0.42
46:WL:9:GLY:HA2	46:WL:66:MET:O	2.19	0.42
46:WL:105:HIS:CD2	46:WL:146:GLY:O	2.72	0.42
46:WN:229:VAL:O	46:WN:233:MET:HG2	2.19	0.42
46:WN:378:PHE:HB3	46:WN:415:MET:HE2	2.01	0.42
45:DC:97:GLU:HG2	45:DC:105:ARG:HH22	1.84	0.42
45:DC:186:ASN:OD1	45:DC:187:SER:N	2.52	0.42
1:0A:36:ARG:NE	45:MA:77:GLU:HG2	2.33	0.42
15:0X:49:ILE:HG12	45:MA:282:TYR:CD2	2.53	0.42
18:1I:195:PHE:HZ	15:4X:139:ARG:H	1.65	0.42
21:1L:64:ASP:OD2	45:BI:279:GLU:HG2	2.18	0.42
21:1L:643:ARG:NH2	46:CD:357:PRO:O	2.52	0.42
25:1R:92:TRP:CZ3	45:AC:370:LYS:HG3	2.54	0.42
26:1W:140:ILE:HD11	45:LC:282:TYR:CD1	2.53	0.42
4:2D:95:GLN:OE1	45:EK:364:PRO:HB2	2.19	0.42
12:2T:74:ILE:HD12	45:MG:159:VAL:HG22	2.02	0.42
26:2W:280:ASP:HA	46:LL:320:ARG:NH2	2.34	0.42
10:3Q:53:ASN:ND2	45:AG:396:ASP:OD1	2.52	0.42
25:3R:101:ARG:NH1	45:AK:41:THR:HG21	2.35	0.42
11:3S:43:TYR:CE1	45:WK:124:LYS:HD2	2.54	0.42
34:4R:259:ASN:HB2	34:4R:351:ASN:HB3	2.01	0.42
37:5F:27:ARG:HH22	45:OC:221:ARG:NH2	2.16	0.42
37:5G:104:MET:HG3	37:5G:105:LYS:N	2.27	0.42
37:5H:40:TYR:HB3	37:5H:42:TYR:CE1	2.54	0.42
35:5S:153:LYS:HA	35:5S:158:MET:HE2	2.00	0.42
40:6G:99:HIS:O	40:6G:102:GLU:HG3	2.18	0.42
40:6G:227:PRO:HA	45:UE:123:ARG:NH2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6H:261:LYS:HA	41:6H:261:LYS:HD2	1.83	0.42
46:AB:19:LYS:O	46:AB:23:VAL:HG23	2.18	0.42
46:AB:101:TRP:HB3	46:AB:398:TYR:HE1	1.83	0.42
46:AB:283:ALA:HA	46:MB:55:THR:HG23	2.00	0.42
45:AC:226:ASN:O	45:AC:230:LEU:HD23	2.20	0.42
46:AD:19:LYS:HD2	46:AD:22:GLU:OE1	2.19	0.42
46:AD:345:ILE:HG23	46:AD:345:ILE:O	2.19	0.42
45:AE:124:LYS:HE2	45:AE:124:LYS:HB3	1.90	0.42
46:AF:22:GLU:HG2	46:AF:81:PHE:HD1	1.85	0.42
45:AM:90:GLU:CG	45:BM:280:LYS:HZ1	2.30	0.42
46:BD:105:HIS:CE1	46:BD:150:LEU:HD12	2.55	0.42
45:BE:207:GLU:HA	45:BE:210:TYR:HB2	2.02	0.42
46:BF:146:GLY:O	46:BF:149:THR:HG22	2.20	0.42
45:BG:209:ILE:HG21	45:BG:227:LEU:HG	2.00	0.42
45:BG:340:THR:HG23	45:BG:341:ILE:HG13	2.00	0.42
46:BH:390:ARG:O	46:BH:392:LYS:NZ	2.52	0.42
45:BI:102:ASN:HB3	45:BI:105:ARG:HB2	2.01	0.42
45:BI:207:GLU:HB2	45:BI:304:LYS:HE3	2.01	0.42
46:BJ:221:THR:HG23	46:BJ:224:ASP:H	1.83	0.42
46:BJ:395:LEU:O	46:BJ:399:THR:HG23	2.18	0.42
46:BL:372:THR:HA	46:BL:422:TYR:CE1	2.53	0.42
46:BN:190:HIS:HB3	46:BN:191:GLN:OE1	2.19	0.42
45:CA:226:ASN:O	45:CA:230:LEU:HD23	2.19	0.42
45:CA:296:PHE:HD2	45:CA:335:ILE:HD12	1.85	0.42
46:CB:45:GLU:OE1	46:CB:46:ARG:HG2	2.18	0.42
46:CF:45:GLU:O	46:CF:46:ARG:HD3	2.18	0.42
46:CF:391:ARG:NH2	45:CE:439:THR:HB	2.34	0.42
45:CG:200:VAL:HG13	45:CG:268:MET:CE	2.49	0.42
45:CI:152:LEU:O	45:CI:155:GLU:HG2	2.19	0.42
46:CL:119:VAL:HA	46:CL:122:LYS:HG2	2.00	0.42
46:CL:267:MET:HE1	46:CL:301:CYS:HB2	2.01	0.42
45:DA:55:GLU:HG3	45:DA:57:GLY:H	1.84	0.42
45:DA:141:VAL:HG12	45:DA:171:ILE:O	2.19	0.42
46:DB:130:LEU:HD21	46:DB:133:PHE:CZ	2.54	0.42
46:DB:225:LEU:O	46:DB:228:LEU:HG	2.19	0.42
46:DD:313:ALA:HB3	46:DD:349:ILE:HD13	2.01	0.42
45:DE:242:LEU:HD11	45:DE:252:ILE:HG13	2.00	0.42
45:DG:123:ARG:NH1	45:DG:123:ARG:HA	2.35	0.42
45:DG:311:LYS:NZ	45:DG:342:GLN:HB3	2.33	0.42
45:DI:192:HIS:ND1	45:DI:424:ASP:OD2	2.51	0.42
46:DJ:139:LEU:HD13	46:DJ:170:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DK:132:LEU:HD22	45:DK:164:LYS:NZ	2.34	0.42
46:DL:380:ARG:O	46:DL:384:GLN:HG2	2.19	0.42
45:DM:19:ALA:O	45:DM:22:GLU:HG2	2.19	0.42
45:DM:210:TYR:CE1	45:DM:227:LEU:HD21	2.54	0.42
46:DN:201:VAL:HG23	46:DN:301:CYS:SG	2.60	0.42
45:EA:19:ALA:HA	45:EA:22:GLU:OE1	2.18	0.42
46:EB:350:LYS:HA	45:EC:179:THR:O	2.19	0.42
45:EC:140:SER:OG	47:EC:501:GTP:O2B	2.37	0.42
46:ED:310:TYR:CD1	46:ED:371:SER:HB2	2.54	0.42
46:EF:221:THR:HG23	46:EF:223:GLY:N	2.35	0.42
46:EF:309:ARG:NH2	46:EF:426:GLN:O	2.42	0.42
45:EG:17:GLY:HA2	45:EG:20:CYS:SG	2.59	0.42
46:EH:102:ALA:HB2	46:EH:403:MET:SD	2.60	0.42
46:EH:407:GLU:O	46:EH:410:GLU:HG3	2.20	0.42
46:EL:105:HIS:CE1	46:EL:150:LEU:HD12	2.54	0.42
46:EL:312:THR:HG22	46:EL:370:ASN:HB3	2.01	0.42
45:EM:124:LYS:HE2	45:EM:124:LYS:HB2	1.89	0.42
45:EM:245:ASP:N	45:EM:245:ASP:OD1	2.53	0.42
46:EN:6:HIS:O	46:EN:63:ALA:HA	2.19	0.42
45:FA:140:SER:OG	47:FA:501:GTP:O2B	2.33	0.42
46:FB:145:SER:HB2	46:FB:188:SER:HB3	2.02	0.42
46:FB:334:GLN:OE1	46:FB:347:ASN:HA	2.19	0.42
45:FC:7:ILE:CD1	45:FC:122:ILE:HD11	2.44	0.42
45:FC:105:ARG:NH1	46:FD:251:ARG:HD3	2.34	0.42
46:FD:10:GLY:O	46:FD:14:ASN:ND2	2.53	0.42
46:FD:173:PRO:HG2	46:FD:380:ARG:HD3	2.01	0.42
45:FE:118:CYS:O	45:FE:122:ILE:HG12	2.19	0.42
46:FF:258:ILE:O	46:FF:258:ILE:HG13	2.20	0.42
45:FG:132:LEU:HD22	45:FG:164:LYS:NZ	2.34	0.42
46:FH:252:LYS:HG2	46:FH:350:LYS:HE2	2.01	0.42
46:FJ:290:THR:HA	46:FJ:293:MET:CE	2.49	0.42
45:FK:181:VAL:HG12	46:FL:348:ASN:HA	2.01	0.42
46:FL:156:ARG:NH2	46:FL:197:ASP:OD2	2.52	0.42
46:FL:172:SER:OG	46:FL:175:VAL:HG22	2.20	0.42
46:FL:215:LEU:HD21	46:FL:273:LEU:HD12	2.02	0.42
45:FM:331:SER:O	45:FM:335:ILE:HG12	2.20	0.42
46:FN:318:ARG:O	46:FN:363:MET:HA	2.18	0.42
45:GA:81:GLY:O	45:GA:84:ARG:HG3	2.20	0.42
45:GC:88:HIS:HE1	45:GC:90:GLU:HB3	1.84	0.42
45:GC:147:SER:HB2	45:GC:190:SER:HB3	2.02	0.42
46:GD:3:GLU:H	46:GD:3:GLU:CD	2.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GE:129:CYS:SG	45:GE:132:LEU:HB2	2.59	0.42
45:GG:288:VAL:CG1	45:GG:327:ASP:HB3	2.33	0.42
46:GH:301:CYS:SG	46:GH:302:ALA:N	2.93	0.42
45:GK:21:TRP:HZ2	45:GK:65:ALA:HB2	1.84	0.42
45:GK:171:ILE:HG23	45:GK:204:LEU:O	2.19	0.42
45:GM:224:TYR:CD1	45:GM:227:LEU:HD12	2.55	0.42
45:HA:88:HIS:HB3	45:HA:91:GLN:OE1	2.19	0.42
45:HA:210:TYR:CE1	45:HA:227:LEU:HD11	2.54	0.42
45:HC:11:GLN:NE2	46:HD:245:GLN:O	2.52	0.42
45:HC:268:MET:N	45:HC:268:MET:SD	2.92	0.42
45:HE:9:VAL:HG13	45:HE:139:ASN:HB3	2.01	0.42
45:HE:221:ARG:HB3	46:HF:322:SER:HB3	2.01	0.42
45:HE:239:THR:HG23	45:HE:243:ARG:HH12	1.84	0.42
46:HH:51:TYR:HE1	46:HH:61:PRO:HG3	1.83	0.42
46:HH:258:ILE:HD12	46:HH:264:HIS:HB3	2.01	0.42
46:HN:72:THR:O	46:HN:75:SER:OG	2.29	0.42
46:IB:289:LEU:HD23	46:IB:289:LEU:HA	1.80	0.42
46:IB:372:THR:HA	46:IB:422:TYR:HE2	1.84	0.42
46:IF:207:LEU:HB3	46:IF:225:LEU:HD22	2.01	0.42
45:IG:123:ARG:NH2	45:IG:127:ASP:OD1	2.52	0.42
45:IG:249:ASN:OD1	45:IG:250:VAL:N	2.51	0.42
45:II:73:THR:O	45:II:76:ASP:HB3	2.19	0.42
45:II:88:HIS:O	45:II:91:GLN:HG2	2.19	0.42
45:IK:127:ASP:OD1	45:IK:128:ASN:N	2.53	0.42
45:IK:224:TYR:CE2	46:IL:323:THR:HG21	2.54	0.42
46:IL:186:THR:HA	46:IL:189:VAL:HG12	2.01	0.42
45:IM:75:ILE:O	45:IM:79:ARG:HG3	2.19	0.42
45:IM:174:SER:OG	45:IM:207:GLU:OE1	2.21	0.42
46:IN:108:GLU:O	46:IN:111:GLU:HG3	2.19	0.42
46:IN:164:MET:N	46:IN:197:ASP:OD2	2.51	0.42
45:JA:212:ILE:HA	45:JA:215:ARG:HE	1.84	0.42
45:JC:245:ASP:OD1	45:JC:246:GLY:N	2.53	0.42
45:JC:439:THR:HG21	46:JF:390:ARG:HH12	1.84	0.42
45:JE:392:ASP:OD2	45:JE:425:LEU:HD22	2.18	0.42
45:JI:311:LYS:NZ	45:JI:342:GLN:HB2	2.34	0.42
45:JI:330:ALA:O	45:JI:334:THR:HG23	2.19	0.42
46:JJ:201:VAL:HG12	46:JJ:266:PHE:O	2.20	0.42
46:JN:19:LYS:HD3	46:JN:227:HIS:CG	2.55	0.42
46:JN:113:ILE:HA	46:JN:116:VAL:HG12	2.00	0.42
46:KB:107:THR:HG1	46:KB:108:GLU:CD	2.22	0.42
45:KE:5:ILE:HG12	45:KE:132:LEU:HD11	1.99	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KE:201:ALA:HB3	45:KE:267:PHE:CD1	2.54	0.42
46:KF:248:SER:HA	46:KF:252:LYS:HD2	2.01	0.42
46:KH:136:THR:HG22	46:KH:167:PHE:HB2	2.02	0.42
45:KK:296:PHE:CE2	45:KK:335:ILE:HG21	2.54	0.42
45:LA:141:VAL:HG22	45:LA:187:SER:HA	2.01	0.42
45:LA:161:TYR:CD1	45:LA:164:LYS:HG3	2.52	0.42
45:LA:257:THR:HG22	45:LA:257:THR:O	2.20	0.42
45:LC:21:TRP:HZ2	45:LC:65:ALA:HB2	1.84	0.42
45:LC:210:TYR:HE1	45:LC:227:LEU:HD21	1.85	0.42
46:LD:54:ALA:HB1	46:MD:281:TYR:O	2.19	0.42
46:LD:304:ASP:OD2	46:LD:306:ARG:NH2	2.52	0.42
45:LE:68:LEU:HD23	45:LE:93:ILE:HB	2.02	0.42
45:LG:31:GLN:HG3	45:LG:33:ASP:OD1	2.19	0.42
45:LG:200:VAL:HG13	45:LG:268:MET:SD	2.59	0.42
46:LH:336:LYS:HD3	46:LH:337:ASN:OD1	2.20	0.42
45:LK:318:MET:SD	45:LK:354:GLY:HA3	2.59	0.42
46:LL:268:ILE:HG22	46:LL:368:VAL:HG22	2.01	0.42
45:LM:104:ALA:HB1	45:LM:411:GLU:OE1	2.20	0.42
45:LM:174:SER:HB3	45:LM:207:GLU:OE1	2.19	0.42
46:LN:105:HIS:CE1	46:LN:150:LEU:HD12	2.55	0.42
46:LN:330:MET:CE	46:LN:349:ILE:HG21	2.49	0.42
45:MA:286:LEU:N	45:MA:290:GLU:OE2	2.53	0.42
46:MB:372:THR:HA	46:MB:422:TYR:CE2	2.53	0.42
45:ME:127:ASP:OD1	45:ME:128:ASN:N	2.52	0.42
45:MG:107:HIS:ND1	45:MG:107:HIS:O	2.53	0.42
45:MI:76:ASP:O	45:MI:80:THR:HG22	2.19	0.42
46:MJ:31:ASP:OD1	46:MJ:35:THR:HB	2.19	0.42
46:ML:36:TYR:CD2	46:ML:44:LEU:HD21	2.54	0.42
45:MM:4:VAL:HG12	45:MM:133:GLN:HB2	2.01	0.42
46:MN:203:ASP:O	46:MN:207:LEU:HG	2.18	0.42
45:NA:371:VAL:HG22	45:NA:373:ARG:H	1.84	0.42
45:NC:417:GLU:N	45:NC:417:GLU:OE1	2.50	0.42
45:NG:88:HIS:CE1	45:NG:90:GLU:HB3	2.54	0.42
45:NI:352:LYS:CE	46:NL:178:THR:HA	2.49	0.42
45:NI:434:GLU:O	45:NI:437:ILE:HG22	2.20	0.42
46:NJ:183:TYR:HA	46:NJ:385:PHE:HE1	1.84	0.42
46:NJ:391:ARG:HA	46:NJ:391:ARG:HD2	1.79	0.42
45:NK:76:ASP:HB3	45:NK:79:ARG:HH21	1.84	0.42
46:NL:174:LYS:HB2	46:NL:205:GLU:OE2	2.20	0.42
45:NM:296:PHE:CE2	45:NM:335:ILE:HG13	2.54	0.42
46:NN:5:VAL:HG12	46:NN:62:ARG:HD3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NN:379:LYS:O	46:NN:382:ALA:HB3	2.19	0.42
46:NN:396:HIS:HA	46:NN:399:THR:OG1	2.19	0.42
46:OD:318:ARG:HG2	46:OD:358:PRO:HD3	2.01	0.42
46:OF:32:PRO:HG3	46:OF:81:PHE:CZ	2.54	0.42
45:OG:286:LEU:N	45:OG:290:GLU:OE1	2.52	0.42
45:OG:430:LYS:HA	45:OG:433:GLU:HG3	2.00	0.42
45:OI:265:ILE:HG12	45:OI:432:TYR:CE1	2.49	0.42
45:OK:75:ILE:HD12	45:OK:75:ILE:H	1.85	0.42
45:OK:288:VAL:HB	45:OK:327:ASP:OD2	2.19	0.42
46:OL:325:GLU:O	46:OL:329:GLN:HG3	2.19	0.42
46:ON:46:ARG:NH1	46:ON:240:LEU:O	2.43	0.42
46:ON:313:ALA:HB1	46:ON:367:PHE:CE1	2.54	0.42
45:PC:21:TRP:HZ3	45:PC:53:PHE:HE1	1.66	0.42
45:PC:209:ILE:HG12	45:PC:302:MET:SD	2.60	0.42
45:PC:280:LYS:HD2	45:PC:283:HIS:HB2	2.00	0.42
45:PC:356:ASN:OD1	45:PC:357:TYR:N	2.52	0.42
46:PD:388:MET:N	46:PD:388:MET:HE2	2.34	0.42
45:PE:217:LEU:HD12	45:PE:367:ASP:OD2	2.19	0.42
45:PG:115:VAL:O	45:PG:119:LEU:HD23	2.20	0.42
45:PG:319:TYR:CD2	45:PG:323:VAL:HG21	2.53	0.42
46:PJ:64:ILE:HG13	46:PJ:89:ASN:ND2	2.34	0.42
46:PL:200:MET:HG3	46:PL:266:PHE:HB2	2.00	0.42
45:PM:319:TYR:CD2	45:PM:323:VAL:HG21	2.54	0.42
46:PN:309:ARG:NH2	46:PN:426:GLN:O	2.44	0.42
46:PN:391:ARG:HD2	46:PN:391:ARG:HA	1.74	0.42
45:QA:252:ILE:HA	45:QA:255:PHE:CE2	2.54	0.42
45:QA:280:LYS:HA	45:QA:280:LYS:HD2	1.78	0.42
45:QC:252:ILE:HA	45:QC:255:PHE:CE1	2.54	0.42
45:QC:318:MET:HB2	45:QC:376:CYS:SG	2.59	0.42
46:QD:68:LEU:HD13	46:QD:143:THR:OG1	2.19	0.42
46:QF:317:PHE:HE2	46:QF:326:VAL:HG13	1.84	0.42
45:QG:1:MET:O	45:QG:131:GLY:HA3	2.19	0.42
45:QG:188:ILE:HD11	45:QG:391:LEU:HB3	2.02	0.42
45:QI:53:PHE:HB3	45:QI:61:HIS:HB3	2.01	0.42
46:QJ:21:TRP:CH2	46:QJ:50:TYR:HB3	2.54	0.42
46:QL:346:PRO:HD2	45:QM:397:LEU:HD11	2.02	0.42
45:RA:167:LEU:HG	45:RA:200:VAL:HB	2.01	0.42
45:RA:226:ASN:HA	45:RA:229:ARG:HE	1.83	0.42
45:RA:318:MET:HA	45:RA:318:MET:HE3	2.02	0.42
46:RB:313:ALA:HB1	46:RB:367:PHE:HE1	1.84	0.42
45:RC:7:ILE:HG13	45:RC:66:VAL:HG12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RD:268:ILE:HG13	46:RD:300:MET:HE2	2.00	0.42
46:RH:238:CYS:SG	46:RH:239:CYS:N	2.93	0.42
45:RI:276:ILE:HG23	45:RI:280:LYS:HZ3	1.85	0.42
46:RL:262:ARG:NH1	46:RL:421:GLU:HB2	2.32	0.42
45:RM:220:GLU:O	45:RM:221:ARG:HG3	2.19	0.42
45:SA:428:LEU:HG	45:SA:432:TYR:HE2	1.84	0.42
46:SB:58:ARG:NH1	46:TB:280:GLN:OE1	2.53	0.42
45:SC:187:SER:O	45:SC:191:THR:HG23	2.18	0.42
46:SD:68:LEU:HD12	46:SD:97:ALA:HB2	2.01	0.42
46:SD:230:SER:HA	46:SD:233:MET:HE3	2.02	0.42
46:SF:21:TRP:CZ3	46:SF:61:PRO:HB3	2.55	0.42
46:SF:255:VAL:HG12	45:SG:407:TRP:CZ3	2.54	0.42
45:SG:107:HIS:ND1	45:SG:107:HIS:O	2.52	0.42
46:SH:100:ASN:CB	46:SH:103:LYS:HZ2	2.33	0.42
46:SH:116:VAL:HA	46:SH:119:VAL:HG12	2.01	0.42
45:SI:55:GLU:OE2	45:SI:61:HIS:NE2	2.46	0.42
46:SJ:36:TYR:CZ	46:SJ:44:LEU:HD11	2.54	0.42
46:SJ:114:ASP:O	46:SJ:117:LEU:HG	2.20	0.42
46:SJ:151:LEU:O	46:SJ:155:VAL:HG22	2.19	0.42
45:SK:141:VAL:HG22	45:SK:187:SER:HA	2.02	0.42
45:SK:268:MET:N	45:SK:268:MET:SD	2.92	0.42
46:SL:162:ARG:HA	46:SL:251:ARG:HH22	1.84	0.42
45:SM:277:SER:HB2	45:SM:279:GLU:OE2	2.20	0.42
45:TC:226:ASN:HA	45:TC:229:ARG:NE	2.35	0.42
46:TD:185:ALA:O	46:TD:189:VAL:HG12	2.20	0.42
45:TE:107:HIS:O	45:TE:107:HIS:ND1	2.52	0.42
45:TE:188:ILE:HD12	45:TE:425:LEU:HD11	2.01	0.42
45:TE:387:VAL:HA	45:TE:390:ARG:HG2	2.02	0.42
45:TG:231:ILE:O	45:TG:235:ILE:HG12	2.19	0.42
45:TG:372:MET:HG2	45:TG:373:ARG:HG3	2.02	0.42
45:TI:17:GLY:O	45:TI:21:TRP:HD1	2.03	0.42
46:UB:2:ARG:CB	46:UB:131:GLN:HE21	2.22	0.42
46:UD:99:ASN:HA	46:UD:142:GLY:H	1.83	0.42
45:UG:260:VAL:H	46:UH:397:TRP:HH2	1.66	0.42
45:UG:331:SER:O	45:UG:335:ILE:HG12	2.19	0.42
45:UG:419:SER:O	45:UG:423:GLU:HG3	2.20	0.42
46:UJ:164:MET:H	46:UJ:197:ASP:HB2	1.85	0.42
46:UJ:324:LYS:HA	46:UJ:327:ASP:OD1	2.20	0.42
45:UK:98:ASP:CG	45:UK:100:ALA:H	2.22	0.42
45:UK:235:ILE:HD13	45:UK:238:LEU:HD21	1.99	0.42
45:UM:287:SER:HB3	45:UM:290:GLU:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:183:GLU:N	45:VA:184:PRO:HD2	2.34	0.42
46:VB:325:GLU:OE2	46:VB:325:GLU:N	2.51	0.42
46:VB:326:VAL:O	46:VB:330:MET:HG2	2.19	0.42
45:VC:431:ASP:O	45:VC:434:GLU:HG3	2.19	0.42
45:VG:88:HIS:HB3	45:VG:91:GLN:HG2	2.00	0.42
45:VG:100:ALA:HB1	46:VH:252:LYS:HA	2.00	0.42
45:VG:141:VAL:HG11	45:VG:172:TYR:CE1	2.54	0.42
45:VG:145:THR:HG22	47:VG:501:GTP:PG	2.59	0.42
45:VG:288:VAL:O	45:VG:291:ILE:HG22	2.20	0.42
46:VH:383:GLU:HA	46:VH:386:THR:HG22	2.00	0.42
45:VI:5:ILE:HB	45:VI:135:PHE:CD2	2.54	0.42
45:VI:287:SER:O	45:VI:290:GLU:HG2	2.19	0.42
45:VK:395:PHE:HZ	45:VK:418:PHE:HB3	1.83	0.42
46:VL:178:THR:HB	46:VL:181:GLU:HG3	2.00	0.42
46:VL:302:ALA:HB3	46:VL:377:MET:HE1	2.01	0.42
46:VN:187:LEU:HD11	46:VN:408:PHE:CE1	2.54	0.42
46:VN:292:GLN:HA	46:VN:295:ASP:OD2	2.19	0.42
45:WA:5:ILE:HB	45:WA:135:PHE:CD1	2.54	0.42
45:WA:71:GLU:HA	46:WB:2:ARG:HH22	1.84	0.42
45:WA:120:ASP:OD2	45:WA:121:ARG:N	2.53	0.42
46:WB:420:SER:O	46:WB:423:GLN:HG3	2.19	0.42
45:WC:222:PRO:HD2	46:WD:324:LYS:HG2	2.02	0.42
45:WC:345:ASP:N	45:WC:345:ASP:OD1	2.53	0.42
45:WE:308:ARG:H	45:WE:308:ARG:HG3	1.65	0.42
46:WF:285:THR:OG1	46:WF:287:PRO:HD2	2.19	0.42
45:WI:215:ARG:NH1	45:WI:299:ALA:O	2.52	0.42
45:WI:342:GLN:N	45:WI:342:GLN:OE1	2.53	0.42
46:WJ:208:TYR:HA	46:WJ:211:CYS:SG	2.60	0.42
46:WJ:396:HIS:HA	46:WJ:399:THR:CG2	2.43	0.42
45:WK:71:GLU:OE1	45:WK:73:THR:OG1	2.18	0.42
45:WK:73:THR:OG1	46:WL:247:ASN:ND2	2.53	0.42
45:WK:222:PRO:O	46:WL:322:SER:HB2	2.20	0.42
45:WK:420:GLU:HG2	45:WK:421:ALA:N	2.34	0.42
45:WK:421:ALA:HA	45:WK:424:ASP:OD1	2.19	0.42
46:WL:7:ILE:HG13	46:WL:64:ILE:HD13	2.01	0.42
45:CE:18:ASN:O	45:CE:22:GLU:OE1	2.37	0.42
45:CE:387:VAL:HA	45:CE:390:ARG:HG2	2.02	0.42
7:0G:143:ASP:OD1	45:JM:85:GLN:NE2	2.52	0.42
4:1D:224:ARG:NH2	34:4R:583:GLN:HA	2.29	0.42
7:1G:168:PHE:HB3	45:KA:1:MET:HG3	2.02	0.42
8:1H:86:LYS:CE	45:HK:369:ALA:HB1	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:1H:194:GLN:NE2	45:HG:282:TYR:HB2	2.35	0.42
25:1R:312:GLN:OE1	46:CD:361:LEU:HG	2.19	0.42
13:1U:488:PHE:HE1	45:VE:84:ARG:HH21	1.66	0.42
21:2L:406:ARG:NH1	46:CN:357:PRO:O	2.53	0.42
21:2L:534:PHE:CE1	45:BM:219:ILE:HG22	2.55	0.42
25:2R:455:ASN:O	46:FH:276:ARG:NH2	2.26	0.42
21:3L:179:THR:OG1	45:CA:365:GLY:HA3	2.18	0.42
23:3O:406:ARG:NH1	46:UH:276:ARG:HD2	2.32	0.42
35:4S:186:ILE:HG13	35:4S:187:LEU:HD22	2.02	0.42
36:5B:75:TYR:HD1	46:NF:320:ARG:CZ	2.33	0.42
36:5C:68:ASP:HA	37:5G:69:LYS:HE3	2.01	0.42
37:5F:78:LEU:HD22	37:5F:97:ARG:HE	1.84	0.42
37:5F:123:ARG:CD	45:OE:372:MET:HE1	2.49	0.42
34:5R:462:ASN:HD22	41:6H:326:HIS:CE1	2.38	0.42
40:6G:264:SER:OG	40:6G:266:PRO:HD3	2.19	0.42
41:6H:168:ASN:HA	46:FB:360:GLY:HA2	2.01	0.42
46:AB:65:LEU:HD22	46:AB:90:PHE:CE1	2.52	0.42
46:AB:70:PRO:O	46:AB:74:ASP:HB2	2.19	0.42
45:AC:287:SER:O	45:AC:290:GLU:HG3	2.19	0.42
46:AD:77:ARG:HB3	46:AD:77:ARG:HH11	1.84	0.42
46:AD:86:ARG:HB3	46:AD:89:ASN:OD1	2.19	0.42
45:AG:141:VAL:HG11	45:AG:172:TYR:CD2	2.54	0.42
45:AG:175:PRO:HB2	45:AG:176:GLN:OE1	2.20	0.42
46:AJ:86:ARG:HB2	46:AJ:89:ASN:OD1	2.19	0.42
45:AK:74:VAL:O	45:AK:78:VAL:HG23	2.19	0.42
45:AK:227:LEU:O	45:AK:231:ILE:HG12	2.19	0.42
46:AN:68:LEU:HB3	46:AN:96:GLY:HA2	2.02	0.42
45:BC:3:GLU:OE2	45:BC:64:ARG:NH2	2.53	0.42
45:BE:222:PRO:HG2	46:BF:324:LYS:HD2	2.02	0.42
45:BE:259:LEU:HD11	45:BE:316:SER:HB3	2.02	0.42
46:BF:145:SER:O	46:BF:188:SER:OG	2.32	0.42
46:BF:282:ARG:NH2	46:BF:292:GLN:OE1	2.52	0.42
45:BG:384:ILE:O	45:BG:387:VAL:HG22	2.19	0.42
46:BH:21:TRP:CZ3	46:BH:61:PRO:HB3	2.54	0.42
45:BI:387:VAL:HG12	45:BI:390:ARG:NH1	2.35	0.42
45:BI:387:VAL:HA	45:BI:390:ARG:HG2	2.01	0.42
46:BJ:287:PRO:HD3	46:BJ:329:GLN:HE22	1.85	0.42
45:BM:11:GLN:O	45:BM:15:GLN:HG3	2.19	0.42
46:CB:241:ARG:HG3	46:CB:242:PHE:CD1	2.55	0.42
46:CF:86:ARG:HG2	46:DF:281:TYR:CE1	2.54	0.42
46:CF:321:MET:N	46:CF:321:MET:SD	2.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CH:186:THR:HA	46:CH:189:VAL:HG12	2.00	0.42
46:CJ:113:ILE:HA	46:CJ:116:VAL:HG12	2.00	0.42
46:CL:392:LYS:HA	46:CL:395:LEU:CD1	2.49	0.42
46:CN:25:SER:OG	46:CN:51:TYR:OH	2.29	0.42
46:DD:20:PHE:O	46:DD:24:ILE:HG12	2.19	0.42
45:DE:5:ILE:HB	45:DE:135:PHE:HD1	1.84	0.42
45:DG:11:GLN:HB2	45:DG:74:VAL:HG11	2.00	0.42
45:DG:123:ARG:HA	45:DG:123:ARG:HH11	1.85	0.42
46:DH:167:PHE:CD2	46:DH:202:ILE:HD11	2.53	0.42
46:DH:257:LEU:HB3	46:DH:266:PHE:CZ	2.52	0.42
45:DI:384:ILE:O	45:DI:387:VAL:HG22	2.19	0.42
46:DJ:165:GLU:OE1	46:DJ:198:GLU:HG3	2.18	0.42
46:DL:420:SER:O	46:DL:423:GLN:HG3	2.20	0.42
45:DM:36:MET:SD	45:DM:37:PRO:HD2	2.59	0.42
46:DN:145:SER:HB2	46:DN:188:SER:HB3	2.00	0.42
46:EB:280:GLN:N	46:EB:280:GLN:OE1	2.52	0.42
45:EC:85:GLN:H	45:EC:85:GLN:CD	2.23	0.42
45:EC:154:LEU:HG	45:EC:197:HIS:HB3	2.00	0.42
46:ED:186:THR:HB	46:ED:415:MET:HE1	2.00	0.42
46:EF:171:PRO:HB3	46:EF:181:GLU:HB3	2.02	0.42
46:EH:145:SER:HB2	46:EH:188:SER:HB3	2.01	0.42
46:EH:322:SER:HB2	45:EI:222:PRO:O	2.20	0.42
46:EJ:3:GLU:HG3	46:EJ:62:ARG:HH12	1.84	0.42
46:EJ:306:ARG:HG2	46:EJ:340:TYR:CE2	2.55	0.42
46:EJ:331:LEU:HG	45:EK:177:VAL:HG22	2.00	0.42
45:EK:215:ARG:NH2	45:EK:299:ALA:O	2.52	0.42
45:EK:268:MET:HG3	45:EK:380:ASN:HB2	2.02	0.42
45:EM:115:VAL:HG22	45:EM:156:ARG:HH11	1.84	0.42
46:EN:212:PHE:CE2	46:EN:220:PRO:HG2	2.55	0.42
45:FC:141:VAL:HG11	45:FC:172:TYR:HA	2.01	0.42
45:FC:171:ILE:HG23	45:FC:204:LEU:O	2.19	0.42
46:FD:248:SER:HA	46:FD:252:LYS:HD2	2.00	0.42
46:FD:293:MET:HE2	46:FD:365:VAL:HG11	2.01	0.42
46:FD:309:ARG:N	46:FD:372:THR:OG1	2.42	0.42
45:FE:237:SER:HA	45:FE:320:ARG:HH11	1.84	0.42
45:FE:296:PHE:CE1	45:FE:377:MET:HE3	2.54	0.42
46:FH:290:THR:O	46:FH:293:MET:HB3	2.18	0.42
46:FH:359:LYS:C	46:FH:359:LYS:HD3	2.40	0.42
46:FL:183:TYR:CE2	46:FL:388:MET:HB3	2.53	0.42
46:FN:137:HIS:HE1	46:FN:139:LEU:CD2	2.32	0.42
45:GE:21:TRP:CZ2	45:GE:65:ALA:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GG:286:LEU:HA	45:GG:290:GLU:OE2	2.19	0.42
46:GH:239:CYS:SG	46:GH:247:ASN:HA	2.60	0.42
45:GI:215:ARG:NH2	45:GI:300:ASN:OD1	2.52	0.42
46:GN:268:ILE:HG22	46:GN:368:VAL:HG22	2.01	0.42
45:HA:195:LEU:O	45:HA:266:HIS:NE2	2.39	0.42
45:HC:175:PRO:HG3	45:HC:390:ARG:NH1	2.35	0.42
46:HD:404:ASP:O	46:HD:407:GLU:HG2	2.19	0.42
45:HE:238:LEU:HD11	45:HE:255:PHE:CE2	2.55	0.42
46:HF:282:ARG:NH2	46:HF:292:GLN:OE1	2.50	0.42
45:HG:289:ALA:O	45:HG:292:THR:HG22	2.19	0.42
46:HJ:116:VAL:HA	46:HJ:119:VAL:HG12	2.02	0.42
46:HL:200:MET:CE	46:HL:268:ILE:HG21	2.49	0.42
46:HN:258:ILE:HG13	46:HN:266:PHE:HZ	1.84	0.42
45:IA:150:GLY:O	45:IA:154:LEU:HD23	2.20	0.42
45:IA:245:ASP:N	45:IA:245:ASP:OD1	2.51	0.42
45:IA:261:PRO:CD	45:IA:262:TYR:H	2.18	0.42
45:IC:133:GLN:HB3	45:IC:252:ILE:HD11	2.01	0.42
45:IE:329:ASN:O	45:IE:332:ILE:HG22	2.19	0.42
45:IG:69:ASP:HB3	45:IG:75:ILE:HD11	2.00	0.42
45:IG:280:LYS:HD2	45:IG:280:LYS:HA	1.79	0.42
46:IH:310:TYR:HE1	46:IH:367:PHE:HZ	1.67	0.42
46:IJ:238:CYS:SG	46:IJ:239:CYS:N	2.92	0.42
46:IJ:247:ASN:ND2	46:IJ:247:ASN:H	2.17	0.42
46:IJ:247:ASN:N	46:IJ:247:ASN:HD22	2.16	0.42
45:IK:261:PRO:HA	46:IN:394:PHE:CD2	2.54	0.42
46:IL:3:GLU:OE1	46:IL:127:CYS:HB3	2.20	0.42
46:IN:109:GLY:HA2	46:IN:112:LEU:HB3	2.01	0.42
46:IN:116:VAL:HA	46:IN:119:VAL:HG12	2.02	0.42
45:JA:31:GLN:OE1	45:JA:37:PRO:HD3	2.19	0.42
45:JA:63:PRO:HG2	45:JA:87:PHE:CE1	2.55	0.42
45:JC:52:PHE:HZ	45:JC:239:THR:HG21	1.84	0.42
45:JG:414:GLU:CD	45:JG:416:GLY:H	2.23	0.42
46:JJ:19:LYS:HZ1	46:JJ:227:HIS:HB2	1.84	0.42
46:JJ:73:MET:HE1	46:JJ:92:PHE:HB3	2.01	0.42
45:JK:278:ALA:HA	45:JK:369:ALA:HB2	2.01	0.42
45:KA:89:PRO:HD3	45:LA:283:HIS:CE1	2.54	0.42
45:KA:227:LEU:O	45:KA:231:ILE:HG12	2.20	0.42
46:KD:8:GLN:OE1	46:KD:17:GLY:HA3	2.19	0.42
46:KD:122:LYS:HG3	46:LD:291:GLN:HE21	1.85	0.42
46:KD:146:GLY:O	46:KD:149:THR:HG22	2.19	0.42
46:KF:226:ASN:HA	46:KF:229:VAL:HG12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:KH:292:GLN:HG2	46:KH:298:ASN:ND2	2.30	0.42
46:KL:2:ARG:HB2	46:KL:131:GLN:HG3	2.01	0.42
45:KM:271:SER:HB2	45:KM:301:MET:HE2	2.02	0.42
46:KN:68:LEU:HD23	46:KN:143:THR:OG1	2.20	0.42
46:KN:259:PRO:HG2	46:KN:311:LEU:HD21	2.02	0.42
45:LE:171:ILE:HG23	45:LE:204:LEU:O	2.19	0.42
45:LE:384:ILE:O	45:LE:387:VAL:HG22	2.19	0.42
46:LF:417:ASP:O	46:LF:421:GLU:OE1	2.38	0.42
45:LG:351:PHE:HB2	46:LJ:176:SER:HB3	2.01	0.42
45:LI:428:LEU:HD12	45:LI:428:LEU:HA	1.88	0.42
46:LJ:285:THR:HB	46:LJ:287:PRO:HD2	2.01	0.42
45:LM:188:ILE:HD11	45:LM:391:LEU:HG	2.02	0.42
46:LN:286:VAL:HG21	46:LN:325:GLU:OE2	2.19	0.42
46:MF:8:GLN:HE21	46:MF:65:LEU:HD11	1.84	0.42
45:MG:102:ASN:ND2	45:MG:105:ARG:HG3	2.35	0.42
45:MI:118:CYS:O	45:MI:122:ILE:HG12	2.20	0.42
45:MI:425:LEU:HD23	45:MI:425:LEU:HA	1.90	0.42
45:MK:107:HIS:ND1	45:MK:107:HIS:O	2.53	0.42
46:NB:47:ILE:HG23	46:NB:51:TYR:CD2	2.54	0.42
46:NB:47:ILE:HG23	46:NB:51:TYR:HD2	1.84	0.42
46:NB:238:CYS:HA	46:NB:241:ARG:NH1	2.34	0.42
45:NC:408:TYR:O	45:NC:413:MET:HB3	2.19	0.42
46:ND:309:ARG:N	46:ND:372:THR:OG1	2.52	0.42
45:NE:258:ASN:ND2	45:NE:352:LYS:HD2	2.34	0.42
46:NH:316:LEU:HD13	46:NH:352:SER:OG	2.19	0.42
46:NH:407:GLU:O	46:NH:410:GLU:HG3	2.20	0.42
45:NI:209:ILE:HD12	45:NI:227:LEU:HD22	2.01	0.42
46:NJ:222:TYR:HD1	49:NJ:501:GDP:C6	2.37	0.42
46:NJ:256:ASN:CB	46:NJ:350:LYS:HD2	2.50	0.42
46:NN:245:GLN:HG2	46:NN:353:ILE:HG21	2.01	0.42
45:OA:271:SER:OG	45:OA:301:MET:HG3	2.20	0.42
45:OA:330:ALA:O	45:OA:334:THR:HG23	2.20	0.42
45:OC:331:SER:O	45:OC:335:ILE:HG12	2.19	0.42
46:OD:309:ARG:NH1	46:OD:339:SER:O	2.51	0.42
46:OD:345:ILE:HG13	46:OD:345:ILE:O	2.20	0.42
45:OE:105:ARG:NH1	45:OE:411:GLU:OE2	2.53	0.42
45:OI:188:ILE:HD12	45:OI:425:LEU:HD22	2.01	0.42
45:OK:3:GLU:OE2	45:OK:131:GLY:N	2.53	0.42
46:OL:324:LYS:O	46:OL:325:GLU:C	2.58	0.42
45:OM:164:LYS:HD3	45:OM:164:LYS:HA	1.80	0.42
45:OM:297:GLU:HB2	45:OM:300:ASN:HD22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:105:ARG:HH11	46:PB:251:ARG:HH12	1.68	0.42
46:PD:341:PHE:HD2	46:PD:348:ASN:HD21	1.66	0.42
45:PE:84:ARG:HG3	45:PE:85:GLN:NE2	2.35	0.42
45:PE:352:LYS:HA	46:PH:177:ASP:O	2.19	0.42
46:PF:214:THR:HG23	46:PF:215:LEU:HD22	2.02	0.42
45:PG:22:GLU:HG2	45:PG:83:TYR:OH	2.20	0.42
45:PG:236:SER:HA	45:PG:239:THR:HG22	2.02	0.42
46:PH:187:LEU:O	46:PH:191:GLN:NE2	2.50	0.42
46:PJ:318:ARG:HB3	46:PJ:357:PRO:HA	2.02	0.42
46:PL:317:PHE:CD2	46:PL:365:VAL:HG22	2.55	0.42
45:PM:222:PRO:HG2	46:PN:324:LYS:CE	2.50	0.42
45:PM:231:ILE:O	45:PM:235:ILE:HG12	2.20	0.42
45:QA:268:MET:HB3	45:QA:268:MET:HE2	1.69	0.42
45:QE:99:ALA:HB3	45:QE:145:THR:HB	2.01	0.42
45:QG:296:PHE:HE2	45:QG:335:ILE:HG21	1.85	0.42
45:QG:319:TYR:CE1	45:QG:375:VAL:HB	2.55	0.42
45:QI:208:ALA:O	45:QI:212:ILE:HG12	2.19	0.42
45:QK:384:ILE:O	45:QK:387:VAL:HG12	2.19	0.42
46:QL:68:LEU:HD13	46:QL:143:THR:OG1	2.19	0.42
46:QL:321:MET:CG	45:QM:221:ARG:HH22	2.32	0.42
45:QM:217:LEU:HD11	45:QM:367:ASP:HB3	2.00	0.42
46:RD:117:LEU:HD21	46:RD:121:ARG:HH22	1.85	0.42
45:RE:220:GLU:OE2	45:RE:221:ARG:NH1	2.52	0.42
45:RE:404:PHE:HD1	45:RE:407:TRP:CZ3	2.36	0.42
46:RF:113:ILE:HD13	46:RF:154:LYS:HE3	2.02	0.42
45:RG:102:ASN:HD21	45:RG:411:GLU:CD	2.23	0.42
45:RG:359:PRO:HB2	45:RG:370:LYS:HZ3	1.81	0.42
46:RH:409:THR:O	46:RH:412:GLU:HG3	2.19	0.42
46:RJ:108:GLU:O	46:RJ:111:GLU:HG3	2.19	0.42
46:RL:69:GLU:HA	46:RL:70:PRO:HD3	1.90	0.42
46:RL:309:ARG:NH1	46:RL:426:GLN:O	2.53	0.42
46:RN:139:LEU:HD13	46:RN:168:SER:HB3	2.02	0.42
46:RN:293:MET:HG3	46:RN:367:PHE:HB2	2.02	0.42
46:RN:312:THR:HG22	46:RN:370:ASN:HB3	2.00	0.42
46:SB:326:VAL:HG21	46:SB:353:ILE:HD11	2.02	0.42
45:SC:10:GLY:O	45:SC:14:ILE:HG12	2.19	0.42
45:SC:90:GLU:N	45:SC:90:GLU:OE1	2.52	0.42
46:SD:406:MET:O	46:SD:410:GLU:OE1	2.36	0.42
46:SF:269:GLY:HA2	46:SF:300:MET:CE	2.49	0.42
46:SF:289:LEU:HD13	46:SF:365:VAL:HG23	2.02	0.42
45:SG:120:ASP:HB3	45:SG:124:LYS:NZ	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SH:303:ALA:HA	46:SH:376:GLU:OE2	2.19	0.42
46:SL:4:ILE:HD11	46:SL:50:TYR:HE2	1.83	0.42
46:SL:40:SER:H	46:SL:43:GLN:NE2	2.18	0.42
46:SL:51:TYR:HE1	46:SL:61:PRO:HG3	1.85	0.42
46:SL:210:ILE:HD11	46:SL:299:MET:O	2.18	0.42
46:SN:139:LEU:HD13	46:SN:168:SER:HB3	2.00	0.42
46:TB:196:ALA:HB3	46:TB:264:HIS:CE1	2.54	0.42
46:TJ:294:PHE:CD2	46:TJ:333:VAL:HG11	2.55	0.42
45:TM:223:THR:HG23	45:TM:225:THR:H	1.85	0.42
46:UB:65:LEU:HD22	46:UB:90:PHE:CE1	2.49	0.42
45:UC:387:VAL:O	45:UC:391:LEU:HD23	2.20	0.42
46:UJ:2:ARG:HG3	46:UJ:2:ARG:NH1	2.34	0.42
45:UK:88:HIS:H	45:UK:91:GLN:NE2	2.17	0.42
46:UL:44:LEU:HD23	46:UL:44:LEU:HA	1.89	0.42
46:UL:102:ALA:HB2	46:UL:398:TYR:CD1	2.55	0.42
45:UM:183:GLU:N	45:UM:184:PRO:HD2	2.34	0.42
45:VA:79:ARG:O	45:VA:84:ARG:NE	2.53	0.42
45:VA:387:VAL:HG23	45:VA:388:PHE:HD2	1.85	0.42
46:VB:210:ILE:O	46:VB:214:THR:HG22	2.19	0.42
45:VC:104:ALA:HB2	45:VC:413:MET:HG2	2.01	0.42
45:VE:318:MET:HE1	45:VE:320:ARG:HB2	2.01	0.42
45:VE:393:HIS:O	45:VE:397:LEU:HD23	2.19	0.42
45:VK:47:ASP:OD2	45:VK:50:ASN:ND2	2.51	0.42
46:VL:154:LYS:O	46:VL:157:GLU:HG3	2.19	0.42
46:VL:210:ILE:O	46:VL:214:THR:HG22	2.20	0.42
46:VL:345:ILE:O	46:VL:345:ILE:HG23	2.20	0.42
46:VN:286:VAL:CG1	46:VN:287:PRO:HD3	2.49	0.42
45:WA:181:VAL:HG13	46:WB:350:LYS:HZ1	1.84	0.42
46:WB:147:MET:O	46:WB:150:LEU:HG	2.19	0.42
46:WB:256:ASN:CB	46:WB:350:LYS:HE3	2.48	0.42
46:WB:375:GLN:HB3	46:WB:379:LYS:HZ2	1.84	0.42
45:WC:133:GLN:HE21	45:WC:252:ILE:HG12	1.84	0.42
46:WJ:296:ALA:O	46:WJ:299:MET:HG2	2.20	0.42
46:WJ:391:ARG:HD2	46:WJ:391:ARG:HA	1.78	0.42
46:WL:309:ARG:NH1	46:WL:343:GLU:OE2	2.52	0.42
46:WL:325:GLU:OE2	46:WL:326:VAL:HG13	2.20	0.42
45:WM:331:SER:O	45:WM:335:ILE:HG12	2.19	0.42
45:WM:391:LEU:HD22	45:WM:394:LYS:NZ	2.35	0.42
45:CE:319:TYR:CD2	45:CE:328:VAL:HG22	2.54	0.42
4:0D:38:ILE:O	45:EC:279:GLU:HG3	2.19	0.42
13:0U:193:LYS:NZ	46:WB:80:PRO:HD2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:67:PRO:HG3	46:MF:53:GLU:HG3	2.00	0.42
7:1G:105:TYR:HD2	45:JA:77:GLU:OE2	2.01	0.42
8:1H:190:LYS:HZ2	45:GG:58:ALA:HB3	1.85	0.42
19:1J:49:ARG:HG3	46:HD:53:GLU:OE2	2.18	0.42
19:1J:121:LYS:O	45:IE:219:ILE:HD12	2.19	0.42
21:1L:52:ASP:OD2	45:BI:221:ARG:HD2	2.20	0.42
23:1O:270:ASN:OD1	45:UA:282:TYR:CZ	2.72	0.42
25:1R:454:ARG:NH2	46:FD:218:THR:HG22	2.32	0.42
14:1V:224:GLN:NE2	46:WL:281:TYR:HE2	2.17	0.42
15:1X:81:ARG:HD3	46:MF:276:ARG:HH21	1.84	0.42
5:2E:45:ARG:NE	34:5R:379:LYS:NZ	2.67	0.42
23:2O:211:ILE:HG12	40:6G:85:PRO:HG2	2.01	0.42
30:3H:196:SER:HB3	46:AH:40:SER:HB2	2.02	0.42
14:3V:141:ASN:ND2	45:LC:405:VAL:HB	2.34	0.42
33:4F:193:LYS:HZ3	45:IM:220:GLU:H	1.65	0.42
34:4R:235:LYS:HA	34:4R:235:LYS:HD3	1.82	0.42
35:4S:156:PRO:O	35:4S:160:THR:HG23	2.20	0.42
37:5G:184:GLN:HE21	37:5G:188:GLN:HG3	1.84	0.42
37:5H:110:ARG:CZ	37:5H:112:ALA:HB3	2.49	0.42
37:5H:123:ARG:HG3	45:OM:372:MET:CE	2.50	0.42
41:6H:253:SER:HB2	41:6H:255:TYR:HE1	1.84	0.42
41:6H:255:TYR:HB3	46:FF:42:LEU:HD12	2.01	0.42
41:6H:377:LYS:O	41:6H:377:LYS:HG3	2.20	0.42
34:7R:294:ASN:OD1	46:DB:217:LEU:HD11	2.20	0.42
34:7R:541:LYS:HD2	34:7R:541:LYS:N	2.30	0.42
45:AA:433:GLU:O	45:AA:437:ILE:HG23	2.19	0.42
45:AC:251:ASP:HB2	45:AC:253:THR:HG22	2.01	0.42
45:AC:345:ASP:OD2	45:AC:438:GLU:HG2	2.19	0.42
46:AD:316:LEU:HG	46:AD:352:SER:OG	2.19	0.42
45:AE:317:MET:HB3	45:AE:377:MET:HG2	2.00	0.42
46:AH:1:MET:O	46:AH:2:ARG:HG2	2.20	0.42
45:AI:113:GLU:OE1	45:AI:113:GLU:N	2.51	0.42
45:BC:186:ASN:OD1	45:BC:187:SER:N	2.53	0.42
45:BE:356:ASN:OD1	45:BE:357:TYR:N	2.52	0.42
45:BG:180:ALA:HA	46:BH:350:LYS:NZ	2.34	0.42
46:BJ:175:VAL:HG23	46:BJ:175:VAL:O	2.19	0.42
46:BJ:399:THR:HA	46:BJ:403:MET:O	2.19	0.42
45:BK:175:PRO:HB2	45:BK:176:GLN:OE1	2.19	0.42
46:BL:9:GLY:HA3	46:BL:66:MET:SD	2.59	0.42
45:BM:200:VAL:HG13	45:BM:268:MET:SD	2.59	0.42
46:BN:3:GLU:OE1	46:BN:3:GLU:N	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:173:PRO:HD2	46:BN:380:ARG:CZ	2.49	0.42
46:BN:184:ASN:OD1	46:BN:185:ALA:N	2.53	0.42
46:CB:73:MET:O	46:CB:77:ARG:HG2	2.20	0.42
46:CF:52:ASN:OD1	46:CF:62:ARG:NH2	2.52	0.42
45:CG:258:ASN:HD22	45:CG:352:LYS:HE3	1.83	0.42
46:CH:69:GLU:HA	46:CH:70:PRO:HD3	1.87	0.42
46:CH:251:ARG:HA	46:CH:251:ARG:HD3	1.83	0.42
45:CI:188:ILE:HD11	45:CI:391:LEU:HB3	2.00	0.42
46:CN:67:ASP:OD1	46:CN:68:LEU:N	2.52	0.42
45:DA:167:LEU:HG	45:DA:200:VAL:HB	2.01	0.42
46:DB:164:MET:O	46:DB:197:ASP:HB2	2.19	0.42
46:DD:304:ASP:OD1	46:DD:306:ARG:HG2	2.20	0.42
45:DE:55:GLU:O	45:EE:285:GLN:NE2	2.31	0.42
45:DG:188:ILE:HG23	45:DG:425:LEU:HD11	2.02	0.42
45:DG:312:TYR:CD1	45:DG:381:SER:HB2	2.54	0.42
46:DL:136:THR:HG22	46:DL:167:PHE:HB2	2.02	0.42
46:DL:190:HIS:CD2	46:DL:414:ASN:HD21	2.37	0.42
46:DL:391:ARG:HA	46:DL:391:ARG:HD2	1.79	0.42
45:DM:75:ILE:HD12	45:DM:75:ILE:H	1.84	0.42
45:DM:237:SER:O	45:DM:318:MET:HE2	2.20	0.42
46:ED:186:THR:HA	46:ED:189:VAL:HG22	2.02	0.42
46:ED:372:THR:HA	46:ED:422:TYR:CE2	2.55	0.42
45:EG:51:THR:HG22	45:EG:52:PHE:CD2	2.54	0.42
45:EG:210:TYR:CE1	45:EG:227:LEU:HD21	2.53	0.42
45:EM:259:LEU:HB3	45:EM:268:MET:SD	2.60	0.42
45:EM:430:LYS:HA	45:EM:433:GLU:HG3	2.02	0.42
46:FB:139:LEU:HD13	46:FB:168:SER:HB3	2.02	0.42
45:FC:289:ALA:O	45:FC:292:THR:HG22	2.19	0.42
45:FE:210:TYR:CE1	45:FE:227:LEU:HD11	2.54	0.42
45:FE:372:MET:N	45:FE:372:MET:SD	2.92	0.42
46:FH:289:LEU:HD13	46:FH:365:VAL:CG2	2.49	0.42
45:FK:407:TRP:CZ2	46:FL:258:ILE:HD11	2.50	0.42
45:GA:98:ASP:OD2	46:GB:252:LYS:HE3	2.19	0.42
45:GA:100:ALA:HB3	45:GA:105:ARG:NH2	2.34	0.42
46:GB:55:THR:HG23	46:HB:283:ALA:HA	2.00	0.42
45:GE:22:GLU:O	45:GE:26:LEU:HD23	2.20	0.42
45:GE:27:GLU:HG3	45:GE:361:THR:HG21	2.01	0.42
45:GE:74:VAL:O	45:GE:77:GLU:HG2	2.20	0.42
46:GF:97:ALA:HB3	46:GF:143:THR:HB	2.01	0.42
45:GG:102:ASN:OD1	45:GG:105:ARG:N	2.45	0.42
45:GI:164:LYS:HA	45:GI:164:LYS:HD3	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GK:97:GLU:OE2	46:GL:251:ARG:NH2	2.52	0.42
45:GK:188:ILE:HG13	45:GK:425:LEU:HD11	2.00	0.42
46:GL:293:MET:HG3	46:GL:294:PHE:CD1	2.53	0.42
45:GM:56:THR:HG23	45:GM:58:ALA:H	1.83	0.42
45:GM:141:VAL:HG12	45:GM:171:ILE:O	2.20	0.42
45:HA:186:ASN:OD1	45:HA:187:SER:N	2.53	0.42
45:HA:286:LEU:HA	45:HA:290:GLU:OE2	2.19	0.42
46:HD:36:TYR:CE2	46:HD:44:LEU:HD21	2.55	0.42
46:HF:226:ASN:ND2	49:HF:501:GDP:HN1	2.11	0.42
45:HG:10:GLY:O	45:HG:14:ILE:HG12	2.20	0.42
45:IA:88:HIS:HB3	45:IA:91:GLN:HG2	2.01	0.42
45:IA:336:LYS:O	45:IA:339:ARG:NH2	2.49	0.42
46:IB:69:GLU:HA	46:IB:70:PRO:HD3	1.86	0.42
45:IE:324:VAL:HG11	45:IE:326:LYS:HZ2	1.83	0.42
45:IG:172:TYR:HD1	45:IG:173:PRO:HD2	1.84	0.42
45:IK:145:THR:HG22	47:IK:501:GTP:PG	2.58	0.42
45:IM:141:VAL:HG12	45:IM:171:ILE:O	2.20	0.42
45:IM:414:GLU:OE1	45:IM:417:GLU:N	2.53	0.42
45:JA:296:PHE:HE1	45:JA:377:MET:HG3	1.84	0.42
46:JB:167:PHE:CZ	46:JB:233:MET:HG3	2.55	0.42
46:JB:267:MET:HB2	46:JB:299:MET:HE1	2.00	0.42
45:JC:287:SER:O	45:JC:290:GLU:HG2	2.19	0.42
45:JC:330:ALA:O	45:JC:334:THR:HG23	2.19	0.42
46:JD:311:LEU:HD23	46:JD:342:VAL:HG11	2.00	0.42
45:JE:265:ILE:HD11	45:JE:435:VAL:HG21	2.02	0.42
45:JE:420:GLU:OE2	45:NE:308:ARG:HD3	2.19	0.42
46:JF:404:ASP:HB3	46:JF:407:GLU:OE1	2.19	0.42
45:JG:37:PRO:O	45:JG:39:ASP:N	2.52	0.42
46:JH:244:GLY:HA2	46:JH:355:ASP:OD1	2.19	0.42
46:JJ:164:MET:HB2	46:JJ:164:MET:HE2	1.85	0.42
45:JM:10:GLY:O	45:JM:14:ILE:HG12	2.19	0.42
45:JM:141:VAL:HG21	45:JM:172:TYR:CD1	2.55	0.42
46:KB:11:GLN:HA	46:KB:72:THR:HG21	2.02	0.42
46:KB:184:ASN:OD1	46:KB:185:ALA:N	2.53	0.42
46:KD:69:GLU:HA	46:KD:70:PRO:HD3	1.90	0.42
46:KF:66:MET:HA	46:KF:91:VAL:HG23	2.02	0.42
45:KI:326:LYS:HZ3	46:KL:220:PRO:HD2	1.83	0.42
46:KJ:330:MET:HB3	46:KJ:349:ILE:HD11	2.00	0.42
45:KM:5:ILE:HD12	45:KM:125:LEU:HD23	2.00	0.42
46:KN:86:ARG:NH1	46:KN:88:ASP:HB2	2.35	0.42
46:KN:148:GLY:O	46:KN:152:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LB:201:VAL:HG13	46:LB:301:CYS:SG	2.60	0.42
46:LB:210:ILE:O	46:LB:214:THR:OG1	2.15	0.42
45:LC:96:LYS:NZ	46:LD:1:MET:SD	2.91	0.42
45:LC:239:THR:HG23	45:LC:243:ARG:HH21	1.84	0.42
46:LD:117:LEU:HD12	46:LD:117:LEU:HA	1.90	0.42
45:LE:46:ASP:O	45:LE:47:ASP:HB2	2.20	0.42
45:LK:326:LYS:HZ2	46:LN:212:PHE:HB2	1.85	0.42
46:LN:101:TRP:CD1	46:LN:146:GLY:HA2	2.55	0.42
46:LN:193:VAL:HG13	46:LN:194:GLU:HG2	2.01	0.42
46:MB:118:ASP:HA	46:MB:121:ARG:HG2	2.02	0.42
46:MB:187:LEU:HD11	46:MB:408:PHE:HD2	1.85	0.42
45:MC:22:GLU:HG2	45:MC:83:TYR:OH	2.19	0.42
45:MC:230:LEU:O	45:MC:234:VAL:HG23	2.19	0.42
45:ME:205:ASP:OD1	45:ME:205:ASP:N	2.53	0.42
45:ME:332:ILE:O	45:ME:336:LYS:HG3	2.18	0.42
45:MK:428:LEU:HG	45:MK:432:TYR:CE2	2.54	0.42
45:MM:21:TRP:CZ2	45:MM:65:ALA:HB2	2.53	0.42
46:NB:253:LEU:O	46:NB:257:LEU:HB2	2.19	0.42
46:ND:21:TRP:CZ3	46:ND:61:PRO:HB3	2.55	0.42
46:ND:68:LEU:HA	46:ND:93:GLY:H	1.83	0.42
46:ND:282:ARG:HB3	46:ND:283:ALA:H	1.62	0.42
46:NF:257:LEU:O	46:NF:259:PRO:HD3	2.20	0.42
46:NF:284:LEU:HD13	46:NF:289:LEU:HD21	2.02	0.42
46:NH:19:LYS:O	46:NH:22:GLU:HB3	2.19	0.42
45:NI:256:GLN:H	45:NI:256:GLN:CD	2.22	0.42
46:NJ:215:LEU:O	46:NJ:216:LYS:HG2	2.19	0.42
45:NK:153:LEU:HD23	45:NK:153:LEU:HA	1.86	0.42
45:NM:33:ASP:OD1	45:NM:34:GLY:N	2.53	0.42
45:OA:18:ASN:O	45:OA:22:GLU:OE1	2.38	0.42
46:OB:199:CYS:HB3	46:OB:265:PHE:CD1	2.54	0.42
45:OC:356:ASN:OD1	45:OC:357:TYR:N	2.52	0.42
46:OD:49:VAL:HG12	46:OD:50:TYR:CD1	2.54	0.42
45:OE:8:HIS:HB2	45:OE:67:PHE:CD1	2.54	0.42
46:OF:306:ARG:HG3	46:OF:340:TYR:HE2	1.84	0.42
45:OG:88:HIS:CE1	45:PG:280:LYS:HE3	2.54	0.42
45:OG:269:LEU:HD23	45:OG:384:ILE:HD13	2.02	0.42
46:OL:67:ASP:O	46:OL:92:PHE:HA	2.20	0.42
46:ON:235:GLY:HA2	46:ON:238:CYS:SG	2.60	0.42
45:PA:88:HIS:CE1	45:PA:90:GLU:HG2	2.55	0.42
45:PA:171:ILE:HD13	47:PA:501:GTP:N2	2.34	0.42
45:PA:340:THR:HG23	45:PA:341:ILE:HG13	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PA:401:LYS:HB2	45:PA:401:LYS:HE3	1.83	0.42
45:PC:208:ALA:O	45:PC:212:ILE:HG12	2.19	0.42
46:PD:163:ILE:HD11	46:PD:251:ARG:NH1	2.34	0.42
45:PE:73:THR:OG1	46:PF:247:ASN:ND2	2.53	0.42
45:PG:11:GLN:NE2	47:PG:501:GTP:O1A	2.52	0.42
46:PH:20:PHE:O	46:PH:24:ILE:HG12	2.20	0.42
46:PH:325:GLU:O	46:PH:329:GLN:HG3	2.20	0.42
45:PK:332:ILE:HA	45:PK:335:ILE:HG22	2.01	0.42
45:QA:141:VAL:HG11	45:QA:172:TYR:HA	2.01	0.42
45:QC:184:PRO:O	45:QC:188:ILE:HD12	2.19	0.42
46:QD:105:HIS:CD2	46:QD:150:LEU:HB2	2.55	0.42
45:QE:4:VAL:HG12	45:QE:133:GLN:HB2	2.01	0.42
46:QF:183:TYR:HE2	46:QF:394:PHE:HB2	1.84	0.42
45:QG:265:ILE:HG12	45:QG:432:TYR:CE1	2.54	0.42
46:QH:7:ILE:HB	46:QH:135:ILE:CD1	2.50	0.42
46:QH:242:PHE:HB2	46:QH:354:CYS:SG	2.60	0.42
46:QH:266:PHE:CE1	46:QH:370:ASN:HB2	2.55	0.42
46:QH:312:THR:HG22	46:QH:370:ASN:HB3	2.02	0.42
45:QI:98:ASP:OD1	45:QI:99:ALA:N	2.53	0.42
45:QI:188:ILE:HG23	45:QI:425:LEU:HD11	2.01	0.42
45:QK:136:LEU:HD12	45:QK:169:PHE:CE2	2.54	0.42
46:QL:183:TYR:HE2	46:QL:394:PHE:HB2	1.85	0.42
46:QL:409:THR:O	46:QL:412:GLU:HG3	2.19	0.42
45:QM:88:HIS:NE2	45:QM:90:GLU:HG2	2.34	0.42
45:QM:121:ARG:HA	45:QM:124:LYS:HZ3	1.85	0.42
45:RA:208:ALA:O	45:RA:212:ILE:HG12	2.20	0.42
45:RA:223:THR:HG23	45:RA:225:THR:H	1.85	0.42
46:RB:5:VAL:HA	46:RB:62:ARG:HG3	2.01	0.42
45:RC:68:LEU:HD21	45:RC:118:CYS:HB2	2.02	0.42
45:RC:105:ARG:HG2	45:RC:411:GLU:HG2	2.02	0.42
45:RE:408:TYR:HB3	45:RE:413:MET:SD	2.59	0.42
46:RJ:183:TYR:HA	46:RJ:385:PHE:CE1	2.53	0.42
46:RJ:274:THR:HB	46:RJ:282:ARG:CZ	2.49	0.42
45:RK:262:TYR:OH	46:RL:391:ARG:O	2.36	0.42
46:RL:288:GLU:O	46:RL:291:GLN:HG3	2.19	0.42
46:RL:314:SER:OG	46:RL:350:LYS:HB3	2.20	0.42
45:RM:108:TYR:CE2	45:RM:413:MET:HG2	2.47	0.42
46:SD:215:LEU:HD21	46:SD:273:LEU:HD12	2.00	0.42
46:SF:190:HIS:CE1	46:SF:414:ASN:HD22	2.37	0.42
45:SG:402:ARG:O	45:SG:402:ARG:HG3	2.19	0.42
46:SH:187:LEU:HD11	46:SH:408:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SJ:405:GLU:HA	46:SJ:408:PHE:HD2	1.84	0.42
46:TB:253:LEU:HA	46:TB:350:LYS:NZ	2.35	0.42
45:TE:60:LYS:HE2	45:UE:283:HIS:HD2	1.83	0.42
45:TE:345:ASP:HB2	45:TE:438:GLU:HG3	2.00	0.42
46:TF:31:ASP:OD1	46:TF:34:GLY:N	2.53	0.42
46:TF:253:LEU:HA	46:TF:350:LYS:HZ1	1.84	0.42
46:TJ:258:ILE:HB	45:TK:407:TRP:CZ2	2.54	0.42
45:TK:233:GLN:HE21	45:TK:368:LEU:HD22	1.84	0.42
46:UD:97:ALA:HB3	46:UD:143:THR:HB	2.02	0.42
46:UD:322:SER:H	45:UE:221:ARG:NH2	2.18	0.42
46:UD:387:ALA:O	46:UD:390:ARG:HG2	2.20	0.42
45:UE:203:MET:HB3	45:UE:269:LEU:HD23	2.02	0.42
45:UE:370:LYS:HB2	45:UE:370:LYS:HE3	1.78	0.42
45:UG:251:ASP:HB3	45:UG:253:THR:HG22	2.01	0.42
46:UJ:9:GLY:HA3	46:UJ:66:MET:SD	2.59	0.42
45:UK:27:GLU:HB2	45:UK:361:THR:HG21	2.01	0.42
46:UL:226:ASN:ND2	49:UL:501:GDP:HN1	2.10	0.42
46:UN:175:VAL:HG22	46:UN:205:GLU:OE2	2.19	0.42
45:VA:326:LYS:HB2	46:VD:212:PHE:CZ	2.53	0.42
46:VB:287:PRO:HA	46:VB:290:THR:HG22	2.00	0.42
45:VC:149:LEU:O	45:VC:153:LEU:HD23	2.20	0.42
46:VD:183:TYR:O	46:VD:187:LEU:HD23	2.20	0.42
46:VF:67:ASP:OD1	46:VF:68:LEU:N	2.52	0.42
46:VF:293:MET:HG2	46:VF:365:VAL:HG11	2.00	0.42
46:VF:395:LEU:O	46:VF:399:THR:HG23	2.19	0.42
45:VG:254:GLU:OE2	46:VJ:98:GLY:HA2	2.20	0.42
45:VG:324:VAL:HG11	45:VG:326:LYS:HE3	2.01	0.42
46:VH:161:ASP:OD1	46:VH:162:ARG:HG2	2.20	0.42
45:VI:224:TYR:HD1	45:VI:227:LEU:HD12	1.83	0.42
45:VK:174:SER:HB2	45:VK:177:VAL:O	2.20	0.42
45:VK:175:PRO:HA	45:VK:390:ARG:CZ	2.49	0.42
45:VK:329:ASN:HA	45:VK:332:ILE:HG12	2.01	0.42
45:VK:352:LYS:HZ2	46:VN:178:THR:HG23	1.85	0.42
46:VL:238:CYS:SG	46:VL:241:ARG:NH2	2.93	0.42
46:VL:277:GLY:O	46:VL:280:GLN:NE2	2.52	0.42
45:VM:88:HIS:ND1	45:VM:89:PRO:HD2	2.35	0.42
45:VM:105:ARG:NH1	46:VN:251:ARG:HD3	2.35	0.42
46:WF:232:ALA:HB1	46:WF:268:ILE:HD12	2.02	0.42
46:WF:386:THR:O	46:WF:390:ARG:HG2	2.20	0.42
45:WG:84:ARG:NH1	45:WG:85:GLN:OE1	2.52	0.42
45:WG:345:ASP:OD1	45:WG:346:TRP:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WI:51:THR:HG23	45:WI:52:PHE:CD2	2.54	0.42
45:WK:118:CYS:SG	45:WK:153:LEU:HD11	2.60	0.42
45:DC:166:LYS:O	45:DC:167:LEU:HD23	2.20	0.42
1:0A:50:PRO:HA	46:MB:41:ASP:OD2	2.18	0.42
15:0X:3:ARG:HD2	46:MD:15:GLN:HE22	1.81	0.42
4:1D:224:ARG:NH1	34:4R:493:GLY:HA3	2.34	0.42
7:1G:132:ARG:NH2	45:JA:82:THR:HA	2.26	0.42
11:1S:110:VAL:HG12	46:MF:160:PRO:HD3	2.01	0.42
14:1V:46:PRO:HG3	45:LI:114:ILE:CD1	2.50	0.42
14:1V:124:LEU:HD12	46:LL:409:THR:HG21	2.02	0.42
4:2D:81:ARG:CZ	46:EJ:357:PRO:HD2	2.50	0.42
5:3E:50:ILE:HG12	34:6R:382:TYR:CD1	2.54	0.42
35:4S:184:ARG:NH2	46:AD:414:ASN:HD21	2.18	0.42
37:5F:77:LYS:O	37:5F:81:MET:HG3	2.19	0.42
37:5G:168:LEU:HB3	37:5G:170:LYS:HZ3	1.83	0.42
37:5H:61:LYS:HZ3	46:ON:276:ARG:HH21	1.67	0.42
10:5Q:72:LYS:O	10:5Q:72:LYS:HG2	2.19	0.42
10:5Q:85:LYS:O	10:5Q:107:ASN:ND2	2.52	0.42
10:5Q:179:PRO:HA	10:5Q:182:LYS:HZ3	1.85	0.42
34:5R:288:LYS:HB2	34:5R:288:LYS:HE3	1.74	0.42
41:6H:286:GLU:OE2	46:FH:227:HIS:CD2	2.73	0.42
34:7R:302:LEU:H	46:CB:77:ARG:NH2	2.16	0.42
34:7R:318:TYR:HB3	34:7R:321:MET:CG	2.50	0.42
45:AA:352:LYS:HD2	45:AA:352:LYS:HA	1.94	0.42
46:AB:31:ASP:OD2	46:AB:37:HIS:ND1	2.52	0.42
45:AC:71:GLU:HA	45:AC:72:PRO:HD3	1.89	0.42
45:AE:60:LYS:HE3	45:BE:283:HIS:ND1	2.35	0.42
45:AE:425:LEU:HD23	45:AE:425:LEU:HA	1.85	0.42
46:AF:143:THR:O	46:AF:147:MET:HB2	2.20	0.42
45:AG:328:VAL:O	45:AG:332:ILE:HG12	2.20	0.42
45:AI:98:ASP:O	45:AI:105:ARG:NH1	2.52	0.42
46:AJ:3:GLU:H	46:AJ:3:GLU:CD	2.23	0.42
46:AL:41:ASP:OD1	46:AL:42:LEU:HD12	2.20	0.42
45:AM:338:LYS:HZ2	45:AM:339:ARG:N	2.17	0.42
46:AN:342:VAL:HG22	46:AN:344:TRP:CD1	2.55	0.42
46:AN:360:GLY:O	46:AN:361:LEU:HD22	2.20	0.42
45:BA:121:ARG:HA	45:BA:124:LYS:HG2	2.02	0.42
46:BB:287:PRO:HA	46:BB:290:THR:HG22	2.01	0.42
46:BF:105:HIS:CE1	46:BF:150:LEU:HD12	2.54	0.42
46:BH:293:MET:CE	46:BH:365:VAL:HG11	2.50	0.42
45:BI:222:PRO:HG2	46:BJ:324:LYS:CE	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BI:390:ARG:HG3	45:BI:391:LEU:HD22	2.02	0.42
46:BJ:293:MET:HG3	46:BJ:367:PHE:HB2	2.00	0.42
45:BK:22:GLU:HG3	45:BK:83:TYR:CZ	2.54	0.42
45:CA:141:VAL:HG22	45:CA:187:SER:HA	2.02	0.42
45:CC:296:PHE:CE2	45:CC:335:ILE:HG21	2.54	0.42
46:CF:134:GLN:HA	46:CF:165:GLU:O	2.18	0.42
45:CG:174:SER:OG	45:CG:206:ASN:OD1	2.37	0.42
45:CG:319:TYR:HB3	45:CG:323:VAL:HG11	2.00	0.42
45:CG:408:TYR:O	45:CG:413:MET:HB2	2.20	0.42
45:CI:97:GLU:HG2	45:CI:105:ARG:HH22	1.84	0.42
45:CI:377:MET:SD	45:CI:379:SER:HB3	2.59	0.42
46:CJ:256:ASN:ND2	46:CJ:350:LYS:HD2	2.31	0.42
46:CL:317:PHE:HB2	46:CL:353:ILE:HD13	2.00	0.42
46:CL:350:LYS:HZ3	45:CM:179:THR:C	2.22	0.42
46:CN:312:THR:HG22	46:CN:370:ASN:HB3	2.01	0.42
45:DA:176:GLN:OE1	45:DA:304:LYS:NZ	2.52	0.42
46:DB:72:THR:HG23	46:DB:73:MET:SD	2.60	0.42
46:DB:133:PHE:CE2	46:DB:155:VAL:HG21	2.55	0.42
46:DD:282:ARG:HH11	46:DD:282:ARG:HG2	1.83	0.42
45:DG:109:THR:HB	45:DG:110:ILE:HD12	2.02	0.42
45:DI:223:THR:HG23	45:DI:225:THR:H	1.84	0.42
46:DJ:36:TYR:CZ	46:DJ:44:LEU:HD11	2.55	0.42
46:DJ:317:PHE:CE1	46:DJ:365:VAL:HG22	2.55	0.42
45:DM:27:GLU:OE1	45:DM:243:ARG:NH2	2.48	0.42
46:EB:342:VAL:HG22	46:EB:344:TRP:H	1.85	0.42
45:EE:268:MET:HB2	45:EE:379:SER:O	2.20	0.42
45:EE:422:ARG:O	45:EE:425:LEU:HG	2.19	0.42
45:EG:242:LEU:HD11	45:EG:252:ILE:HG12	2.02	0.42
45:EI:201:ALA:HB3	45:EI:267:PHE:CD1	2.55	0.42
45:EI:284:GLU:OE1	45:EI:286:LEU:HD22	2.20	0.42
46:EJ:91:VAL:HG21	46:EJ:116:VAL:HB	2.02	0.42
46:EJ:380:ARG:HE	46:EJ:380:ARG:HB3	1.63	0.42
46:EL:19:LYS:HA	46:EL:22:GLU:OE2	2.19	0.42
46:EL:161:ASP:OD2	46:EL:162:ARG:NH2	2.52	0.42
46:EL:174:LYS:HE2	46:EL:205:GLU:OE2	2.19	0.42
46:EL:213:ARG:HB2	46:EL:213:ARG:NH1	2.34	0.42
45:FA:407:TRP:CZ3	46:FB:255:VAL:HA	2.55	0.42
45:FC:422:ARG:CZ	45:FC:422:ARG:HB3	2.48	0.42
45:FE:196:GLU:OE1	45:FE:196:GLU:N	2.52	0.42
46:FF:268:ILE:HG22	46:FF:368:VAL:HG22	2.00	0.42
45:FG:210:TYR:HD1	46:FH:324:LYS:NZ	2.15	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FG:216:ASN:HB3	45:FG:275:ILE:O	2.19	0.42
45:FG:296:PHE:CE1	45:FG:377:MET:HE3	2.55	0.42
45:FK:56:THR:HG23	45:FK:58:ALA:H	1.84	0.42
45:FK:133:GLN:O	45:FK:164:LYS:HE3	2.19	0.42
45:FM:194:LEU:HB2	45:FM:198:THR:OG1	2.19	0.42
46:FN:114:ASP:OD1	46:FN:115:SER:N	2.53	0.42
46:FN:268:ILE:HG13	46:FN:300:MET:SD	2.59	0.42
46:FN:344:TRP:HB3	46:FN:430:ALA:HB2	2.02	0.42
45:GA:79:ARG:O	45:GA:84:ARG:HG2	2.20	0.42
45:GC:150:GLY:O	45:GC:154:LEU:HD23	2.19	0.42
45:GC:176:GLN:N	45:GC:176:GLN:OE1	2.52	0.42
45:GG:175:PRO:HG3	45:GG:390:ARG:HH21	1.85	0.42
45:GG:178:SER:HB2	45:GG:183:GLU:OE2	2.19	0.42
46:GH:207:LEU:HD13	46:GH:225:LEU:HD22	2.02	0.42
46:GN:148:GLY:O	46:GN:152:ILE:HG12	2.19	0.42
45:HC:346:TRP:CD1	46:HF:391:ARG:HG3	2.55	0.42
45:HI:284:GLU:N	45:HI:284:GLU:OE1	2.53	0.42
45:HI:287:SER:O	45:HI:290:GLU:HG2	2.20	0.42
46:HL:336:LYS:HD3	46:HL:336:LYS:HA	1.84	0.42
46:ID:268:ILE:HG22	46:ID:368:VAL:HG22	2.01	0.42
46:IJ:11:GLN:O	46:IJ:15:GLN:HG2	2.19	0.42
45:IK:52:PHE:CZ	45:IK:239:THR:HG21	2.54	0.42
45:IK:407:TRP:CZ3	46:IL:255:VAL:HA	2.54	0.42
46:IL:345:ILE:O	46:IL:345:ILE:HG23	2.19	0.42
45:JC:68:LEU:HD23	45:JC:93:ILE:HB	2.02	0.42
45:JC:287:SER:H	45:JC:290:GLU:CD	2.23	0.42
45:JG:28:HIS:HE1	45:JG:243:ARG:HH11	1.67	0.42
45:JG:419:SER:O	45:JG:422:ARG:N	2.53	0.42
46:JH:3:GLU:CD	46:JH:3:GLU:H	2.22	0.42
45:JI:90:GLU:CG	45:KI:280:LYS:HZ1	2.27	0.42
46:JJ:19:LYS:HG3	46:JJ:226:ASN:CB	2.49	0.42
45:JK:338:LYS:NZ	45:JK:338:LYS:HB2	2.35	0.42
45:JK:352:LYS:HD3	46:JN:178:THR:HA	2.00	0.42
45:JK:430:LYS:O	45:JK:433:GLU:HG3	2.20	0.42
46:JL:26:ASP:OD2	46:JL:359:LYS:HD2	2.19	0.42
46:JL:73:MET:CE	46:JL:92:PHE:HB3	2.50	0.42
46:JL:73:MET:HE3	46:JL:92:PHE:HB3	2.02	0.42
45:JM:224:TYR:HD1	46:JN:323:THR:HG21	1.85	0.42
46:JN:68:LEU:HD12	46:JN:97:ALA:HB2	2.00	0.42
45:KA:166:LYS:O	45:KA:199:ASP:HB2	2.19	0.42
45:KA:220:GLU:OE1	45:KA:220:GLU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KA:320:ARG:HD3	45:KA:360:PRO:HG3	2.01	0.42
45:KA:417:GLU:O	45:KA:420:GLU:HG3	2.20	0.42
45:KG:433:GLU:OE2	45:KG:433:GLU:HA	2.19	0.42
45:KI:66:VAL:HG21	45:KI:122:ILE:HD11	2.02	0.42
45:KI:222:PRO:HD2	46:KJ:324:LYS:HG3	2.00	0.42
45:KI:411:GLU:OE2	45:KI:411:GLU:N	2.53	0.42
45:KM:404:PHE:CD1	46:KN:259:PRO:HA	2.54	0.42
46:KN:257:LEU:HD23	46:KN:266:PHE:CZ	2.54	0.42
45:LA:172:TYR:OH	45:LA:191:THR:HB	2.19	0.42
45:LC:60:LYS:HE2	45:LC:60:LYS:HB3	1.86	0.42
45:LC:223:THR:HG22	45:LC:224:TYR:N	2.35	0.42
45:LC:231:ILE:O	45:LC:235:ILE:HG12	2.19	0.42
45:LC:288:VAL:HG11	45:LC:327:ASP:HB3	2.02	0.42
46:LH:156:ARG:NH2	46:LH:197:ASP:OD2	2.53	0.42
45:LI:328:VAL:O	45:LI:332:ILE:HG12	2.20	0.42
46:LJ:95:THR:HG21	46:LJ:108:GLU:HG2	2.02	0.42
46:LJ:230:SER:HA	46:LJ:233:MET:HG2	2.02	0.42
45:LK:71:GLU:HA	45:LK:72:PRO:HD3	1.89	0.42
46:LL:323:THR:OG1	46:LL:324:LYS:NZ	2.53	0.42
45:LM:269:LEU:HG	45:LM:303:ALA:HB3	2.02	0.42
46:LN:190:HIS:O	46:LN:193:VAL:HG12	2.20	0.42
46:MH:258:ILE:HG13	46:MH:258:ILE:O	2.19	0.42
45:MI:224:TYR:CE2	46:MJ:246:LEU:HD11	2.54	0.42
46:MN:178:THR:N	46:MN:181:GLU:OE2	2.53	0.42
45:NA:70:LEU:HG	45:NA:149:LEU:HD11	2.00	0.42
45:NC:222:PRO:HD2	46:ND:324:LYS:NZ	2.35	0.42
46:ND:296:ALA:HB3	46:ND:306:ARG:HH21	1.84	0.42
45:NE:253:THR:HA	45:NE:256:GLN:HE22	1.83	0.42
46:NF:22:GLU:HG2	46:NF:81:PHE:HD1	1.84	0.42
46:NF:65:LEU:HD12	46:NF:90:PHE:CE1	2.54	0.42
46:NF:70:PRO:HG3	46:NF:92:PHE:CD1	2.55	0.42
46:NF:111:GLU:N	46:NF:111:GLU:OE1	2.52	0.42
46:NH:42:LEU:HA	46:NH:45:GLU:HG3	2.02	0.42
46:NL:204:ASN:OD1	46:NL:205:GLU:N	2.52	0.42
45:NM:28:HIS:CE1	45:NM:49:PHE:HB3	2.55	0.42
45:NM:103:PHE:H	45:NM:408:TYR:HE2	1.67	0.42
46:OB:164:MET:O	46:OB:197:ASP:HB2	2.20	0.42
46:OB:334:GLN:HE22	46:OB:347:ASN:N	2.17	0.42
45:OC:352:LYS:HZ3	46:OF:179:VAL:H	1.67	0.42
46:OD:175:VAL:HG13	46:OD:205:GLU:OE2	2.19	0.42
46:OD:182:PRO:CG	46:OD:384:GLN:HG3	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OE:420:GLU:O	45:OE:423:GLU:HG3	2.19	0.42
45:OG:317:MET:N	45:OG:317:MET:SD	2.92	0.42
46:OH:188:SER:O	46:OH:192:LEU:HD23	2.19	0.42
46:OH:409:THR:O	46:OH:412:GLU:HG3	2.20	0.42
46:OJ:31:ASP:OD2	46:OJ:37:HIS:CD2	2.73	0.42
46:OJ:391:ARG:HA	46:OJ:391:ARG:HD2	1.80	0.42
45:OK:88:HIS:HB3	45:OK:91:GLN:CG	2.50	0.42
45:OK:111:GLY:O	45:OK:115:VAL:HG13	2.20	0.42
45:OK:426:ALA:O	45:OK:429:GLU:HG3	2.19	0.42
46:OL:127:CYS:SG	46:OL:130:LEU:HB2	2.60	0.42
45:OM:224:TYR:HB2	46:ON:245:GLN:HE21	1.83	0.42
45:OM:224:TYR:CD2	46:ON:323:THR:HG21	2.54	0.42
46:ON:207:LEU:HD11	46:ON:228:LEU:HD11	2.02	0.42
45:PA:152:LEU:HD13	45:PA:155:GLU:OE2	2.20	0.42
45:PA:215:ARG:HG3	45:PA:216:ASN:OD1	2.20	0.42
45:PC:51:THR:O	45:PC:64:ARG:NH2	2.52	0.42
45:PC:258:ASN:OD1	45:PC:352:LYS:HE3	2.19	0.42
46:PD:153:SER:HB3	46:PD:154:LYS:NZ	2.35	0.42
46:PD:210:ILE:O	46:PD:214:THR:HG22	2.19	0.42
45:PE:18:ASN:O	45:PE:22:GLU:HG2	2.19	0.42
46:PF:164:MET:O	46:PF:197:ASP:HB2	2.19	0.42
45:PG:114:ILE:O	45:PG:117:LEU:HG	2.20	0.42
45:PG:268:MET:SD	45:PG:268:MET:N	2.93	0.42
46:PH:10:GLY:O	46:PH:14:ASN:ND2	2.53	0.42
46:PH:131:GLN:HE22	46:PH:163:ILE:HD11	1.85	0.42
46:PH:161:ASP:OD1	46:PH:162:ARG:HG2	2.20	0.42
46:PH:313:ALA:HB1	46:PH:367:PHE:HE1	1.85	0.42
45:PI:324:VAL:HB	45:PI:327:ASP:OD2	2.20	0.42
46:PN:97:ALA:HB3	46:PN:143:THR:HB	2.02	0.42
45:QC:70:LEU:HD13	45:QC:145:THR:OG1	2.20	0.42
46:QD:327:ASP:HA	46:QD:330:MET:HE3	2.02	0.42
45:QE:191:THR:HA	45:QE:194:LEU:HG	2.02	0.42
46:QF:8:GLN:NE2	46:QF:14:ASN:HA	2.34	0.42
46:QF:47:ILE:HD13	46:QF:59:TYR:CE2	2.54	0.42
45:QG:308:ARG:HG2	45:QG:308:ARG:NH1	2.34	0.42
45:QG:329:ASN:OD1	46:QH:175:VAL:HG23	2.19	0.42
45:QI:47:ASP:HB3	45:QI:48:ALA:H	1.68	0.42
45:QI:290:GLU:N	45:QI:290:GLU:OE2	2.53	0.42
45:QI:296:PHE:HE1	45:QI:377:MET:HG3	1.85	0.42
45:QK:279:GLU:OE1	45:QK:280:LYS:HD3	2.20	0.42
46:QL:2:ARG:NH2	45:QM:72:PRO:HD3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:65:LEU:HD22	46:RB:90:PHE:CE1	2.54	0.42
45:RC:263:PRO:HD3	46:RD:396:HIS:CE1	2.54	0.42
45:RC:402:ARG:CZ	45:RC:405:VAL:HB	2.50	0.42
46:RD:228:LEU:HD11	46:RD:273:LEU:HD11	2.01	0.42
46:RD:322:SER:HB2	45:RE:222:PRO:O	2.20	0.42
45:RE:345:ASP:OD1	45:RE:346:TRP:N	2.53	0.42
45:RG:280:LYS:HA	45:RG:283:HIS:ND1	2.35	0.42
46:RH:252:LYS:HA	46:RH:255:VAL:HG12	2.00	0.42
46:RH:391:ARG:HA	46:RH:391:ARG:HD2	1.81	0.42
45:RI:31:GLN:HG3	45:RI:33:ASP:OD1	2.20	0.42
45:RI:209:ILE:HD12	45:RI:227:LEU:HD22	2.00	0.42
46:RL:108:GLU:O	46:RL:111:GLU:HG3	2.19	0.42
46:RL:268:ILE:HG22	46:RL:368:VAL:HG22	2.02	0.42
45:RM:14:ILE:HD11	45:RM:69:ASP:HB2	2.02	0.42
46:RN:288:GLU:O	46:RN:291:GLN:HG3	2.19	0.42
45:SA:88:HIS:HB3	45:SA:91:GLN:HG2	2.02	0.42
46:SB:65:LEU:HD22	46:SB:90:PHE:HE1	1.84	0.42
46:SB:97:ALA:HB3	46:SB:143:THR:HB	2.01	0.42
46:SB:318:ARG:HH11	46:SB:358:PRO:HG3	1.85	0.42
45:SC:226:ASN:HA	45:SC:229:ARG:HG2	2.00	0.42
46:SD:346:PRO:HD2	45:SE:398:MET:HE1	2.01	0.42
45:SE:56:THR:HG23	45:SE:58:ALA:H	1.85	0.42
46:SF:113:ILE:HA	46:SF:116:VAL:HG12	2.02	0.42
46:SF:161:ASP:O	46:SF:251:ARG:NH2	2.51	0.42
45:SI:256:GLN:NE2	45:SI:257:THR:HG23	2.34	0.42
46:SJ:414:ASN:O	46:SJ:418:LEU:HD23	2.19	0.42
45:SK:2:ARG:HD3	45:SK:2:ARG:H	1.84	0.42
45:SK:75:ILE:O	45:SK:79:ARG:HG2	2.20	0.42
45:SK:434:GLU:O	45:SK:437:ILE:HG22	2.20	0.42
46:SL:46:ARG:HH21	45:SM:73:THR:HA	1.84	0.42
46:TB:288:GLU:O	46:TB:291:GLN:HG3	2.20	0.42
46:TB:345:ILE:HG23	46:TB:345:ILE:O	2.19	0.42
45:TC:171:ILE:HD11	47:TC:501:GTP:H1'	2.01	0.42
45:TC:426:ALA:C	45:TC:430:LYS:HZ2	2.23	0.42
46:TF:136:THR:HG22	46:TF:167:PHE:HD2	1.85	0.42
45:TG:141:VAL:HG11	45:TG:172:TYR:CD1	2.55	0.42
45:TG:392:ASP:HA	45:TG:422:ARG:HH12	1.84	0.42
46:TH:180:VAL:HG22	46:TH:183:TYR:HB2	2.01	0.42
45:TI:206:ASN:OD1	47:TI:501:GTP:N2	2.47	0.42
45:TI:288:VAL:HA	45:TI:291:ILE:HG12	2.01	0.42
46:TJ:21:TRP:HA	46:TJ:24:ILE:HG12	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TK:223:THR:HG23	45:TK:225:THR:H	1.85	0.42
45:TK:425:LEU:HA	45:TK:425:LEU:HD23	1.83	0.42
46:TL:379:LYS:HD3	46:TL:419:VAL:HG11	2.01	0.42
46:TL:394:PHE:HD2	46:TL:397:TRP:CZ3	2.37	0.42
45:UC:79:ARG:NH2	45:UC:92:LEU:HB2	2.35	0.42
45:UC:174:SER:HB2	45:UC:177:VAL:HB	2.02	0.42
45:UC:217:LEU:HD12	45:UC:367:ASP:HB3	2.02	0.42
45:UC:217:LEU:HD11	45:UC:368:LEU:HD22	2.01	0.42
46:UF:31:ASP:OD1	46:UF:35:THR:N	2.36	0.42
46:UF:420:SER:O	46:UF:423:GLN:HG3	2.19	0.42
45:UG:111:GLY:O	45:UG:115:VAL:HG13	2.19	0.42
45:UG:263:PRO:HG2	45:UG:264:ARG:NH1	2.34	0.42
45:UG:347:CYS:HA	46:UH:388:MET:HE1	2.01	0.42
46:UH:322:SER:HB2	45:UI:222:PRO:O	2.19	0.42
46:UJ:32:PRO:HG3	46:UJ:81:PHE:CZ	2.55	0.42
46:UL:74:ASP:HA	46:UL:77:ARG:HG2	2.02	0.42
46:UL:286:VAL:CG2	46:UL:287:PRO:HD3	2.50	0.42
46:VB:324:LYS:HB2	46:VB:324:LYS:HZ3	1.83	0.42
45:VC:178:SER:OG	46:VD:347:ASN:HB3	2.20	0.42
45:VG:223:THR:HB	46:VH:322:SER:HB3	2.01	0.42
45:VG:433:GLU:O	45:VG:437:ILE:HG12	2.20	0.42
45:VI:199:ASP:OD1	45:VI:200:VAL:HG23	2.20	0.42
46:VJ:22:GLU:OE2	46:VJ:80:PRO:HB2	2.20	0.42
45:VK:88:HIS:CD2	45:WK:280:LYS:HE2	2.55	0.42
46:VN:384:GLN:O	46:VN:388:MET:HG2	2.20	0.42
45:WA:48:ALA:O	45:WA:51:THR:HG22	2.20	0.42
45:WA:263:PRO:HD3	46:WD:396:HIS:CE1	2.54	0.42
45:WC:289:ALA:O	45:WC:292:THR:HG22	2.20	0.42
45:WC:326:LYS:HZ2	46:WF:219:THR:HA	1.85	0.42
46:WF:222:TYR:O	46:WF:226:ASN:ND2	2.25	0.42
45:WG:214:ARG:HD2	45:WG:215:ARG:N	2.34	0.42
45:WK:262:TYR:OH	46:WN:391:ARG:O	2.30	0.42
45:WM:3:GLU:OE2	45:WM:129:CYS:HB3	2.19	0.42
46:WN:282:ARG:HH21	46:WN:284:LEU:HA	1.84	0.42
45:CE:10:GLY:O	45:CE:14:ILE:HG12	2.20	0.42
45:CE:90:GLU:OE2	45:CE:121:ARG:NH2	2.53	0.42
2:0B:46:PHE:CZ	46:JH:73:MET:HB3	2.55	0.42
4:1D:177:THR:HG21	46:EF:47:ILE:H	1.85	0.42
21:1L:217:ASN:ND2	46:BJ:56:GLY:HA2	2.35	0.42
13:1U:193:LYS:HB2	46:WF:80:PRO:HD3	2.02	0.42
4:2D:15:THR:O	46:CJ:46:ARG:NH2	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:2G:37:LYS:HZ1	46:JJ:77:ARG:HD2	1.85	0.42
22:2M:285:LYS:NZ	46:IJ:41:ASP:OD2	2.33	0.42
12:2T:125:GLY:O	45:AG:337:THR:HG23	2.20	0.42
27:3C:8:LEU:HD23	34:7R:4:ASN:HD22	1.85	0.42
31:3I:267:THR:O	46:GJ:297:LYS:NZ	2.25	0.42
36:5C:29:GLN:C	36:5C:30:LYS:HD3	2.39	0.42
40:6G:150:GLU:HB3	46:VH:336:LYS:HD3	2.02	0.42
40:6G:156:LYS:HA	40:6G:156:LYS:HD3	1.87	0.42
34:6R:26:HIS:HB3	45:LK:46:ASP:OD1	2.19	0.42
34:6R:311:LYS:HE3	34:6R:311:LYS:HB2	1.66	0.42
45:AA:420:GLU:HA	45:AA:423:GLU:OE2	2.19	0.42
45:AG:90:GLU:CD	45:AG:121:ARG:HH22	2.22	0.42
45:AG:212:ILE:HD11	45:AG:300:ASN:HA	2.02	0.42
45:AG:434:GLU:O	45:AG:437:ILE:HG12	2.20	0.42
46:AH:376:GLU:HA	46:AH:379:LYS:HE3	2.02	0.42
45:AI:237:SER:HA	45:AI:320:ARG:HH11	1.84	0.42
46:AN:100:ASN:HB3	46:AN:103:LYS:HB2	2.02	0.42
45:BA:406:HIS:NE2	46:BB:261:PRO:HD3	2.35	0.42
45:BC:2:ARG:O	45:BC:51:THR:HA	2.20	0.42
45:BC:192:HIS:HD2	45:BC:421:ALA:HA	1.85	0.42
46:BF:289:LEU:HD11	46:BF:363:MET:HB3	2.00	0.42
45:BG:188:ILE:HG12	45:BG:421:ALA:HB1	2.02	0.42
45:BI:340:THR:HG23	45:BI:341:ILE:HG13	2.01	0.42
45:BK:180:ALA:HA	46:BL:350:LYS:NZ	2.35	0.42
45:BK:336:LYS:HD3	45:BK:336:LYS:HA	1.77	0.42
45:BK:393:HIS:HA	45:BK:396:ASP:OD2	2.19	0.42
46:BL:226:ASN:ND2	49:BL:501:GDP:HN1	2.05	0.42
46:BN:109:GLY:O	46:BN:113:ILE:HG23	2.19	0.42
46:BN:287:PRO:HG3	46:BN:329:GLN:NE2	2.34	0.42
46:CB:8:GLN:HE21	46:CB:65:LEU:HA	1.83	0.42
46:CB:201:VAL:HG23	46:CB:301:CYS:SG	2.60	0.42
46:CB:396:HIS:HA	46:CB:399:THR:OG1	2.20	0.42
46:CF:19:LYS:HD3	46:CF:226:ASN:HB2	2.01	0.42
46:CF:167:PHE:CZ	46:CF:200:MET:HG3	2.55	0.42
46:CF:346:PRO:HD2	45:CG:398:MET:HE3	2.01	0.42
45:CG:152:LEU:O	45:CG:155:GLU:HG2	2.20	0.42
45:CG:251:ASP:HB3	45:CG:254:GLU:OE1	2.20	0.42
46:CL:145:SER:HB2	46:CL:188:SER:OG	2.19	0.42
46:CL:391:ARG:HD2	46:CL:391:ARG:HA	1.78	0.42
45:CM:48:ALA:O	45:CM:51:THR:HG22	2.19	0.42
45:CM:185:TYR:O	45:CM:188:ILE:HG22	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CM:433:GLU:O	45:CM:437:ILE:HG23	2.20	0.42
45:DA:102:ASN:HB3	45:DA:105:ARG:HB2	2.02	0.42
46:DD:254:ALA:O	46:DD:258:ILE:HG12	2.20	0.42
45:DE:188:ILE:HG23	45:DE:425:LEU:HD11	2.02	0.42
46:DH:113:ILE:HD11	46:DH:151:LEU:HB2	2.01	0.42
46:DJ:116:VAL:HA	46:DJ:119:VAL:HG12	2.02	0.42
45:DK:75:ILE:HG23	45:DK:92:LEU:HD23	2.01	0.42
45:DK:141:VAL:HG11	45:DK:172:TYR:CD1	2.52	0.42
45:DK:152:LEU:O	45:DK:155:GLU:HG3	2.20	0.42
46:DL:146:GLY:O	46:DL:149:THR:HG22	2.19	0.42
45:DM:107:HIS:ND1	45:DM:107:HIS:O	2.53	0.42
46:ED:267:MET:HE2	46:ED:301:CYS:HB2	2.01	0.42
46:ED:345:ILE:HG23	46:ED:345:ILE:O	2.20	0.42
46:EH:12:CYS:O	46:EH:16:ILE:HG12	2.20	0.42
45:EI:287:SER:O	45:EI:290:GLU:HG2	2.20	0.42
46:EL:69:GLU:HA	46:EL:70:PRO:HD3	1.89	0.42
45:EM:56:THR:HG23	45:EM:58:ALA:H	1.83	0.42
46:EN:73:MET:HE1	46:EN:92:PHE:HB3	2.01	0.42
46:EN:288:GLU:O	46:EN:291:GLN:HG3	2.19	0.42
45:FA:133:GLN:HB3	45:FA:252:ILE:HD11	2.02	0.42
45:FA:224:TYR:CE2	46:FB:323:THR:HG21	2.54	0.42
46:FB:267:MET:HB2	46:FB:299:MET:SD	2.59	0.42
45:FC:68:LEU:HD13	45:FC:93:ILE:HB	2.02	0.42
45:FC:291:ILE:HG13	45:FC:292:THR:N	2.34	0.42
46:FD:270:PHE:HD2	46:FD:273:LEU:HD21	1.84	0.42
45:FE:97:GLU:HA	45:FE:97:GLU:OE2	2.20	0.42
45:FE:340:THR:HG23	45:FE:341:ILE:HG13	2.01	0.42
45:FI:63:PRO:HG2	45:FI:87:PHE:CD2	2.54	0.42
46:FJ:77:ARG:HE	46:FJ:77:ARG:HB3	1.71	0.42
45:FK:195:LEU:CD2	45:FK:428:LEU:HD21	2.50	0.42
46:FL:416:ASN:OD1	46:FL:417:ASP:N	2.53	0.42
46:FN:318:ARG:HH11	46:FN:358:PRO:HG3	1.84	0.42
46:FN:378:PHE:HA	46:FN:381:VAL:HG22	2.01	0.42
46:GD:164:MET:SD	46:GD:196:ALA:HA	2.60	0.42
45:GG:171:ILE:O	45:GG:171:ILE:HG23	2.20	0.42
45:GG:221:ARG:HH21	46:GH:320:ARG:HH22	1.68	0.42
46:GJ:135:ILE:HG13	46:GJ:152:ILE:HD11	2.02	0.42
46:GJ:218:THR:OG1	46:GJ:219:THR:HG23	2.20	0.42
46:GL:97:ALA:HB3	46:GL:143:THR:HB	2.02	0.42
45:GM:19:ALA:HA	45:GM:22:GLU:OE1	2.19	0.42
45:HA:100:ALA:HB1	46:HB:252:LYS:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HB:237:THR:HG23	46:HB:241:ARG:HH12	1.85	0.42
45:HC:53:PHE:CE2	45:HC:63:PRO:HG3	2.55	0.42
46:HD:378:PHE:HA	46:HD:381:VAL:HG12	2.02	0.42
45:HE:415:GLU:HG2	45:HE:416:GLY:N	2.34	0.42
46:HF:136:THR:HG22	46:HF:167:PHE:CD1	2.55	0.42
46:HF:347:ASN:C	46:HF:347:ASN:HD22	2.23	0.42
45:HI:336:LYS:HD3	45:HI:336:LYS:HA	1.88	0.42
45:HI:361:THR:OG1	45:HI:362:VAL:N	2.52	0.42
46:HL:325:GLU:HA	46:HL:328:GLU:HG3	2.01	0.42
46:HN:201:VAL:HG23	46:HN:301:CYS:SG	2.60	0.42
46:IB:19:LYS:O	46:IB:23:VAL:HG23	2.20	0.42
46:IB:227:HIS:HD1	46:IB:227:HIS:C	2.23	0.42
45:IE:175:PRO:HG3	45:IE:390:ARG:NH1	2.34	0.42
45:IE:224:TYR:HE1	47:IE:501:GTP:C5	2.38	0.42
45:IG:222:PRO:HD2	46:IH:324:LYS:HD3	2.02	0.42
46:IJ:9:GLY:HA2	46:IJ:66:MET:O	2.20	0.42
45:IK:148:GLY:O	45:IK:151:SER:OG	2.34	0.42
45:IM:205:ASP:OD1	45:IM:205:ASP:N	2.53	0.42
46:IN:69:GLU:HA	46:IN:70:PRO:HD3	1.87	0.42
46:IN:201:VAL:HG21	46:IN:374:ILE:HD11	2.01	0.42
45:JC:313:MET:HG2	45:JC:346:TRP:CH2	2.55	0.42
46:JD:68:LEU:HB3	46:JD:96:GLY:HA2	2.01	0.42
46:JD:136:THR:HG22	46:JD:167:PHE:HD2	1.85	0.42
45:JG:10:GLY:O	45:JG:14:ILE:HG12	2.19	0.42
46:JH:21:TRP:CZ3	46:JH:61:PRO:HB3	2.55	0.42
46:JH:183:TYR:O	46:JH:187:LEU:HD13	2.20	0.42
46:JH:257:LEU:O	46:JH:259:PRO:HD3	2.20	0.42
45:JI:195:LEU:HD21	45:JI:264:ARG:HH21	1.85	0.42
46:JJ:177:ASP:OD2	46:JJ:178:THR:N	2.53	0.42
46:JJ:310:TYR:CD2	46:JJ:371:SER:HB2	2.55	0.42
45:JK:38:SER:OG	45:JK:39:ASP:N	2.50	0.42
45:JK:174:SER:HB2	45:JK:177:VAL:O	2.20	0.42
46:JL:149:THR:HA	46:JL:152:ILE:HD12	2.01	0.42
45:JM:122:ILE:HG23	45:JM:123:ARG:NH1	2.35	0.42
46:JN:294:PHE:HE2	46:JN:367:PHE:CE1	2.38	0.42
46:KB:23:VAL:O	46:KB:27:GLU:OE1	2.38	0.42
46:KB:233:MET:O	46:KB:236:VAL:HG12	2.20	0.42
45:KC:245:ASP:N	45:KC:245:ASP:OD1	2.52	0.42
45:KC:330:ALA:O	45:KC:334:THR:HG23	2.20	0.42
46:KF:139:LEU:HD13	46:KF:168:SER:HB3	2.02	0.42
45:KI:279:GLU:OE2	45:KI:280:LYS:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KK:350:GLY:HA2	46:KN:179:VAL:HG12	2.01	0.42
45:KM:52:PHE:CZ	45:KM:239:THR:HG21	2.55	0.42
46:KN:21:TRP:HA	46:KN:24:ILE:HG22	2.02	0.42
46:LB:65:LEU:HD22	46:LB:90:PHE:HE1	1.85	0.42
46:LB:391:ARG:HA	46:LB:391:ARG:HD2	1.84	0.42
45:LE:178:SER:HB3	45:LE:183:GLU:OE1	2.20	0.42
45:LE:414:GLU:O	45:LE:417:GLU:HG2	2.20	0.42
46:LF:404:ASP:N	46:LF:404:ASP:OD1	2.53	0.42
45:LG:21:TRP:CZ2	45:LG:65:ALA:HB2	2.55	0.42
46:LH:265:PHE:HB3	46:LH:374:ILE:HD13	2.01	0.42
46:LH:286:VAL:N	46:LH:287:PRO:HD2	2.34	0.42
45:LI:71:GLU:HA	45:LI:72:PRO:HD3	1.83	0.42
45:LK:26:LEU:HD11	45:LK:364:PRO:HD2	2.01	0.42
45:LK:183:GLU:N	45:LK:184:PRO:HD2	2.35	0.42
46:LL:375:GLN:HG3	46:LL:379:LYS:NZ	2.35	0.42
46:MB:1:MET:HG3	46:MB:2:ARG:N	2.35	0.42
45:MC:384:ILE:O	45:MC:387:VAL:HG22	2.20	0.42
45:ME:401:LYS:HE2	46:MF:344:TRP:CG	2.54	0.42
45:MG:331:SER:O	45:MG:335:ILE:HG12	2.20	0.42
46:MJ:1:MET:O	46:MJ:2:ARG:HG2	2.20	0.42
45:MK:194:LEU:O	45:MK:198:THR:HG22	2.19	0.42
45:MK:384:ILE:O	45:MK:387:VAL:HG22	2.20	0.42
45:MM:68:LEU:HD11	45:MM:118:CYS:SG	2.60	0.42
45:MM:70:LEU:HD13	45:MM:145:THR:OG1	2.20	0.42
46:MN:221:THR:O	46:MN:225:LEU:HG	2.20	0.42
46:NB:165:GLU:HG2	46:NB:198:GLU:HB2	2.02	0.42
45:NE:107:HIS:ND1	45:NE:107:HIS:O	2.52	0.42
45:NE:174:SER:HB2	45:NE:177:VAL:O	2.19	0.42
45:NE:306:ASP:HB3	45:NE:309:HIS:ND1	2.35	0.42
46:NF:238:CYS:SG	46:NF:318:ARG:NE	2.92	0.42
46:NF:289:LEU:HD11	46:NF:363:MET:HG3	2.01	0.42
45:NG:338:LYS:HD2	45:NG:339:ARG:H	1.84	0.42
45:NK:164:LYS:HD3	45:NK:164:LYS:HA	1.83	0.42
45:NM:112:LYS:HA	45:NM:115:VAL:HG12	2.02	0.42
45:NM:320:ARG:CG	45:NM:374:ALA:HB3	2.50	0.42
46:NN:100:ASN:HB3	46:NN:103:LYS:CG	2.50	0.42
45:OA:348:PRO:HG2	46:OD:384:GLN:NE2	2.33	0.42
45:OC:8:HIS:CD2	45:OC:138:PHE:HD2	2.36	0.42
45:OC:52:PHE:HA	45:OC:64:ARG:HD2	2.01	0.42
45:OC:205:ASP:OD1	45:OC:303:ALA:HA	2.20	0.42
46:OD:31:ASP:OD2	46:OD:35:THR:OG1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OD:321:MET:HB2	46:OD:325:GLU:OE2	2.20	0.42
45:OE:143:GLY:HA3	47:OF:501:GTP:O2B	2.20	0.42
45:OE:285:GLN:HB3	45:OE:290:GLU:OE2	2.19	0.42
46:OF:54:ALA:HA	46:PF:283:ALA:HB2	2.02	0.42
45:OG:255:PHE:O	45:OG:259:LEU:HG	2.20	0.42
45:OG:328:VAL:O	45:OG:332:ILE:HG12	2.20	0.42
45:OG:330:ALA:O	45:OG:334:THR:HG23	2.20	0.42
46:OJ:9:GLY:HA2	46:OJ:66:MET:O	2.20	0.42
46:OJ:108:GLU:HA	46:OJ:111:GLU:OE1	2.20	0.42
45:OK:223:THR:HG23	45:OK:225:THR:H	1.85	0.42
45:OK:395:PHE:HZ	45:OK:418:PHE:HB3	1.85	0.42
46:OL:178:THR:HG22	46:OL:179:VAL:N	2.35	0.42
46:OL:179:VAL:HG13	46:OL:180:VAL:HG23	2.02	0.42
45:OM:275:ILE:N	45:OM:276:ILE:HD12	2.35	0.42
46:ON:130:LEU:HD21	46:ON:133:PHE:CE2	2.55	0.42
46:ON:186:THR:HA	46:ON:189:VAL:HG12	2.01	0.42
45:PA:419:SER:O	45:PA:422:ARG:HB3	2.19	0.42
46:PB:313:ALA:HB1	46:PB:367:PHE:CE1	2.55	0.42
45:PC:372:MET:SD	45:PC:373:ARG:HG3	2.59	0.42
46:PF:203:ASP:HB3	46:PF:205:GLU:CD	2.40	0.42
45:PG:177:VAL:HG13	46:PH:327:ASP:OD2	2.20	0.42
45:PG:196:GLU:HG2	45:PG:197:HIS:CE1	2.55	0.42
45:PI:387:VAL:O	45:PI:390:ARG:HG3	2.20	0.42
45:PK:186:ASN:OD1	45:PK:187:SER:N	2.52	0.42
45:PK:196:GLU:OE1	45:PK:196:GLU:N	2.53	0.42
45:PM:71:GLU:HG3	45:PM:73:THR:HG22	2.01	0.42
46:PN:65:LEU:HD22	46:PN:90:PHE:CE1	2.54	0.42
46:QD:310:TYR:HD2	46:QD:371:SER:HB2	1.84	0.42
45:QG:15:GLN:HE22	45:QG:228:ASN:CG	2.22	0.42
45:QG:220:GLU:O	45:QG:221:ARG:HD3	2.20	0.42
46:QH:8:GLN:NE2	46:QH:17:GLY:HA3	2.35	0.42
46:QH:392:LYS:HG3	46:QH:395:LEU:HD22	2.02	0.42
45:QI:254:GLU:OE2	46:QJ:98:GLY:HA2	2.19	0.42
46:QJ:317:PHE:CD1	46:QJ:365:VAL:HG22	2.55	0.42
45:QK:31:GLN:NE2	45:QK:35:GLN:HB2	2.34	0.42
45:QK:149:LEU:O	45:QK:153:LEU:HD23	2.20	0.42
45:QK:408:TYR:O	45:QK:413:MET:HB2	2.19	0.42
45:RA:252:ILE:HA	45:RA:255:PHE:CE2	2.55	0.42
45:RC:136:LEU:HD12	45:RC:137:VAL:H	1.85	0.42
45:RC:291:ILE:HG12	45:RC:375:VAL:HG22	2.02	0.42
46:RD:310:TYR:HB2	46:RD:341:PHE:HD2	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RF:412:GLU:HA	46:RF:415:MET:HG2	2.02	0.42
45:RG:363:VAL:HG13	45:RG:366:GLY:HA3	2.02	0.42
45:RI:377:MET:SD	45:RI:379:SER:HB2	2.59	0.42
46:RJ:167:PHE:CZ	46:RJ:233:MET:HG2	2.55	0.42
46:RJ:178:THR:N	46:RJ:181:GLU:OE2	2.52	0.42
45:RK:12:GLY:HA2	45:RK:15:GLN:NE2	2.34	0.42
45:RK:15:GLN:HA	45:RK:18:ASN:OD1	2.20	0.42
45:RK:36:MET:HG2	45:RK:61:HIS:CE1	2.55	0.42
46:RL:226:ASN:HA	46:RL:229:VAL:HG22	2.01	0.42
46:RL:287:PRO:HD3	46:RL:325:GLU:OE1	2.20	0.42
46:RN:86:ARG:HE	46:RN:87:PRO:HD2	1.84	0.42
46:SB:58:ARG:HH11	46:TB:281:TYR:HE2	1.67	0.42
46:SB:391:ARG:HA	46:SB:391:ARG:HD2	1.79	0.42
45:SC:72:PRO:O	45:SC:75:ILE:HG22	2.19	0.42
46:SD:51:TYR:HB3	46:SD:59:TYR:HB3	2.01	0.42
46:SD:412:GLU:HA	46:SD:415:MET:HG3	2.02	0.42
45:SE:259:LEU:HB3	45:SE:268:MET:CE	2.50	0.42
45:SG:256:GLN:OE1	46:SH:397:TRP:HZ2	2.02	0.42
45:SI:2:ARG:HD3	45:SI:2:ARG:H	1.85	0.42
45:SI:174:SER:HB2	45:SI:177:VAL:O	2.20	0.42
45:SI:206:ASN:O	45:SI:210:TYR:HD1	2.03	0.42
46:SN:87:PRO:HA	46:SN:90:PHE:HD2	1.83	0.42
46:SN:178:THR:HG22	46:SN:180:VAL:H	1.85	0.42
45:TA:19:ALA:HA	45:TA:22:GLU:OE1	2.19	0.42
45:TA:331:SER:O	45:TA:335:ILE:HG12	2.19	0.42
46:TB:21:TRP:CZ2	46:TB:63:ALA:HB2	2.55	0.42
45:TC:240:ALA:HA	45:TC:243:ARG:HH12	1.83	0.42
45:TE:176:GLN:OE1	45:TE:176:GLN:N	2.48	0.42
45:TE:219:ILE:HD12	45:TE:222:PRO:HB3	2.00	0.42
46:TF:203:ASP:O	46:TF:207:LEU:HG	2.19	0.42
46:TF:361:LEU:HD11	46:TF:364:ALA:HB2	2.02	0.42
45:TG:208:ALA:O	45:TG:212:ILE:HG12	2.20	0.42
46:TH:121:ARG:O	46:TH:125:GLU:OE1	2.38	0.42
46:TH:202:ILE:HD11	46:TH:207:LEU:HD21	2.02	0.42
46:TH:213:ARG:O	46:TH:216:LYS:HE3	2.19	0.42
46:TH:304:ASP:OD1	46:TH:306:ARG:HG2	2.20	0.42
46:TJ:251:ARG:O	46:TJ:255:VAL:HG23	2.19	0.42
45:TK:47:ASP:N	45:TK:47:ASP:OD2	2.51	0.42
45:TK:372:MET:SD	45:TK:372:MET:N	2.93	0.42
45:TK:377:MET:HE2	45:TK:379:SER:HB3	2.01	0.42
46:UB:375:GLN:NE2	46:UB:422:TYR:HB3	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UC:10:GLY:O	45:UC:13:GLY:N	2.53	0.42
46:UD:356:ILE:HD12	46:UD:357:PRO:HD2	2.01	0.42
46:UF:143:THR:HG1	49:UF:501:GDP:PB	2.41	0.42
46:UH:86:ARG:NH2	46:VH:280:GLN:HE22	2.18	0.42
45:UI:268:MET:HG3	45:UL:380:ASN:HB2	2.02	0.42
46:UL:225:LEU:O	46:UL:228:LEU:HG	2.20	0.42
46:UL:301:CYS:SG	46:UL:302:ALA:N	2.93	0.42
45:VA:179:THR:C	46:VB:350:LYS:HZ3	2.23	0.42
45:VA:332:ILE:HD12	45:VA:351:PHE:CD2	2.55	0.42
45:VC:336:LYS:HE3	45:VC:351:PHE:HE2	1.85	0.42
46:VH:380:ARG:O	46:VH:383:GLU:HG3	2.18	0.42
45:VI:245:ASP:N	45:VI:245:ASP:OD1	2.51	0.42
46:VJ:362:LYS:HE3	46:VJ:362:LYS:HB3	1.89	0.42
45:VK:209:ILE:HG23	45:VK:227:LEU:HD22	2.01	0.42
45:VK:422:ARG:HH12	45:VK:426:ALA:HB2	1.84	0.42
45:VM:313:MET:HG3	45:VM:381:SER:HA	2.00	0.42
46:VN:193:VAL:HG23	46:VN:265:PHE:HZ	1.85	0.42
46:VN:199:CYS:O	46:VN:265:PHE:HA	2.19	0.42
45:WE:48:ALA:O	45:WE:51:THR:HG22	2.20	0.42
46:WF:6:HIS:O	46:WF:63:ALA:HA	2.20	0.42
46:WF:391:ARG:HA	46:WF:391:ARG:HD2	1.74	0.42
45:WG:265:ILE:HG22	45:WG:380:ASN:HD21	1.85	0.42
45:WG:404:PHE:CD2	46:WH:259:PRO:HA	2.55	0.42
46:WH:421:GLU:HA	46:WH:424:GLN:HG2	2.02	0.42
45:WI:48:ALA:O	45:WI:51:THR:HG22	2.20	0.42
45:WI:101:ASN:HD22	46:WJ:256:ASN:HD21	1.66	0.42
46:WJ:72:THR:HG23	46:WJ:73:MET:SD	2.60	0.42
45:WK:183:GLU:N	45:WK:184:PRO:HD2	2.34	0.42
45:WK:420:GLU:HA	45:WK:423:GLU:HG2	2.02	0.42
45:WK:430:LYS:HA	45:WK:433:GLU:OE2	2.20	0.42
45:DC:188:ILE:HA	45:DC:191:THR:HG22	2.00	0.42
45:DC:239:THR:HG23	45:DC:243:ARG:HH21	1.84	0.42
2:0B:46:PHE:HZ	46:JH:73:MET:HB3	1.85	0.42
1:1A:39:TYR:CE2	45:ME:78:VAL:HA	2.55	0.42
4:2D:217:ALA:HA	34:5R:431:ILE:HD11	2.02	0.42
21:2L:525:LEU:CD1	46:BN:320:ARG:H	2.32	0.42
23:2O:352:ARG:HH22	46:VF:276:ARG:NH1	2.16	0.42
1:3A:101:ASN:OD1	34:6R:58:ARG:HA	2.20	0.42
1:3A:104:ARG:HB3	34:6R:59:MET:H	1.84	0.42
30:3H:218:HIS:C	45:MG:84:ARG:HH22	2.22	0.42
31:3I:202:GLY:O	45:GK:340:THR:HG21	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:3R:9:PRO:HA	46:MN:227:HIS:CD2	2.53	0.42
25:3R:232:LEU:HD11	46:BN:92:PHE:HZ	1.84	0.42
37:5E:87:LEU:HD22	37:5E:92:GLN:HB3	2.01	0.42
37:5E:209:ARG:HH22	45:LC:264:ARG:NH1	2.18	0.42
37:5F:97:ARG:HH22	46:KF:262:ARG:HD3	1.83	0.42
37:5H:38:VAL:HG13	37:5H:39:ASP:N	2.35	0.42
37:5H:101:ASP:HB3	37:5H:103:ARG:NH1	2.35	0.42
37:5H:144:LEU:HA	37:5H:147:GLN:HG2	2.02	0.42
34:5R:361:LEU:HD21	34:5R:367:GLN:HG2	2.02	0.42
41:6H:247:LYS:O	41:6H:248:LEU:HB2	2.20	0.42
10:6Q:48:GLU:HB3	10:6Q:161:ARG:HG2	2.02	0.42
34:6R:538:PHE:HB2	34:6R:578:TYR:CZ	2.55	0.42
34:7R:145:ILE:HA	46:AD:78:ALA:O	2.19	0.42
34:7R:231:TYR:CZ	34:7R:235:LYS:HD3	2.54	0.42
34:7R:300:PHE:HB3	46:CB:77:ARG:CZ	2.50	0.42
46:AB:58:ARG:NH1	46:BB:280:GLN:O	2.51	0.42
46:AD:1:MET:HG2	46:AD:2:ARG:H	1.85	0.42
45:AE:107:HIS:O	45:AE:107:HIS:ND1	2.53	0.42
45:AG:174:SER:HB2	45:AG:177:VAL:O	2.20	0.42
45:AG:384:ILE:O	45:AG:387:VAL:HG22	2.19	0.42
45:AI:88:HIS:O	45:AI:91:GLN:HG2	2.20	0.42
45:AK:88:HIS:HB3	45:AK:91:GLN:HG2	2.02	0.42
45:AK:223:THR:HA	46:AL:323:THR:HG22	2.01	0.42
45:AM:221:ARG:NE	46:AN:322:SER:HB3	2.34	0.42
45:AM:231:ILE:O	45:AM:235:ILE:HG12	2.20	0.42
45:AM:434:GLU:O	45:AM:437:ILE:HG12	2.19	0.42
46:AN:60:VAL:HG11	46:BN:281:TYR:OH	2.19	0.42
46:AN:105:HIS:CE1	46:AN:150:LEU:HD12	2.54	0.42
46:AN:139:LEU:HD13	46:AN:170:VAL:HG12	2.02	0.42
45:BA:68:LEU:HD21	45:BA:118:CYS:SG	2.60	0.42
45:BA:425:LEU:O	45:BA:429:GLU:HG2	2.19	0.42
46:BB:65:LEU:HD22	46:BB:90:PHE:HE1	1.85	0.42
45:BC:387:VAL:O	45:BC:391:LEU:HG	2.20	0.42
46:BF:226:ASN:ND2	49:BF:501:GDP:HN1	2.09	0.42
46:BH:97:ALA:HB3	46:BH:143:THR:HB	2.01	0.42
46:BH:178:THR:HG22	46:BH:179:VAL:H	1.84	0.42
46:BL:322:SER:O	46:BL:325:GLU:HG2	2.19	0.42
45:CA:69:ASP:O	45:CA:94:SER:HA	2.20	0.42
45:CA:147:SER:HB2	45:CA:190:SER:HB3	2.01	0.42
46:CB:19:LYS:HE2	46:CB:19:LYS:HB3	1.81	0.42
46:CB:97:ALA:HB3	46:CB:143:THR:HB	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:CC:71:GLU:OE1	45:CC:73:THR:OG1	2.18	0.42
45:CC:187:SER:O	45:CC:191:THR:HG23	2.18	0.42
46:CD:87:PRO:HA	46:CD:90:PHE:HD2	1.84	0.42
46:CD:105:HIS:CD2	46:CD:150:LEU:HB2	2.55	0.42
46:CD:268:ILE:HG22	46:CD:368:VAL:HG22	2.01	0.42
46:CF:66:MET:HE3	46:CF:116:VAL:HG21	2.01	0.42
46:CF:105:HIS:CE1	46:CF:150:LEU:HD12	2.55	0.42
45:CG:215:ARG:NH1	45:CG:215:ARG:HB2	2.35	0.42
45:CI:111:GLY:O	45:CI:115:VAL:HG13	2.18	0.42
46:CJ:86:ARG:NH1	46:DJ:281:TYR:CD2	2.88	0.42
45:CM:203:MET:HE1	45:CM:267:PHE:HD1	1.83	0.42
45:CM:312:TYR:HB2	45:CM:342:GLN:O	2.19	0.42
46:CN:61:PRO:HD2	46:CN:84:LEU:O	2.20	0.42
46:CN:260:PHE:HB2	46:CN:263:LEU:HD13	2.01	0.42
46:DB:2:ARG:HB3	45:DC:96:LYS:HE2	2.02	0.42
46:DB:208:TYR:CE2	46:DB:225:LEU:HD11	2.55	0.42
46:DB:276:ARG:NH1	46:DB:276:ARG:O	2.52	0.42
45:DE:123:ARG:NH1	45:DE:123:ARG:HA	2.34	0.42
45:DG:104:ALA:HB3	45:DG:411:GLU:OE2	2.20	0.42
45:DG:121:ARG:HH22	45:DG:124:LYS:HE2	1.85	0.42
45:DI:191:THR:HA	45:DI:194:LEU:HG	2.02	0.42
45:DI:276:ILE:HD12	45:DI:276:ILE:HA	1.89	0.42
46:DJ:259:PRO:HA	45:DK:404:PHE:CD1	2.55	0.42
46:DJ:331:LEU:HD11	45:DK:176:GLN:HB3	2.01	0.42
45:DK:271:SER:HA	45:DK:302:MET:HG2	2.00	0.42
46:DL:255:VAL:HG12	45:DM:407:TRP:CZ3	2.55	0.42
45:DM:186:ASN:OD1	45:DM:187:SER:N	2.53	0.42
46:DN:47:ILE:HG12	46:DN:51:TYR:HB2	2.01	0.42
46:EB:64:ILE:HA	46:EB:89:ASN:HB3	2.02	0.42
46:ED:156:ARG:NH1	46:ED:159:TYR:O	2.52	0.42
46:ED:324:LYS:HE3	45:EE:222:PRO:HG3	2.01	0.42
45:EE:251:ASP:HB2	45:EE:253:THR:HG22	2.01	0.42
46:EF:86:ARG:HD2	46:FF:281:TYR:HD1	1.85	0.42
46:EF:140:GLY:HA2	46:EF:171:PRO:HG3	2.01	0.42
45:EG:280:LYS:HA	45:EG:283:HIS:CD2	2.55	0.42
45:EI:171:ILE:HG23	45:EI:204:LEU:O	2.20	0.42
45:EM:387:VAL:HA	45:EM:390:ARG:HG2	2.02	0.42
46:EN:86:ARG:NH1	46:EN:87:PRO:HG2	2.35	0.42
46:EN:203:ASP:O	46:EN:207:LEU:HG	2.19	0.42
45:FA:425:LEU:HD23	45:FA:425:LEU:HA	1.89	0.42
45:FC:220:GLU:OE2	45:FC:220:GLU:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FE:135:PHE:HB2	45:FE:166:LYS:HG2	2.02	0.42
45:FG:207:GLU:HB2	45:FG:304:LYS:HG3	2.00	0.42
45:FI:377:MET:SD	45:FI:379:SER:HB3	2.59	0.42
45:FI:408:TYR:HA	45:FI:411:GLU:OE1	2.20	0.42
46:FJ:100:ASN:HB2	46:FJ:103:LYS:HB2	2.01	0.42
46:FJ:105:HIS:CE1	46:FJ:150:LEU:HD12	2.55	0.42
46:FL:3:GLU:OE2	46:FL:128:ASP:N	2.52	0.42
45:GA:91:GLN:HG2	45:GA:121:ARG:NE	2.35	0.42
46:GB:201:VAL:HG23	46:GB:301:CYS:SG	2.60	0.42
46:GD:8:GLN:HE21	46:GD:65:LEU:HD11	1.85	0.42
45:GE:254:GLU:O	45:GE:254:GLU:HG3	2.19	0.42
46:GF:1:MET:O	46:GF:2:ARG:HG2	2.20	0.42
46:GF:3:GLU:HG3	46:GF:62:ARG:NH1	2.35	0.42
46:GF:164:MET:O	46:GF:197:ASP:HB2	2.20	0.42
45:GI:326:LYS:HA	45:GI:326:LYS:HD2	1.71	0.42
46:GJ:3:GLU:HB2	46:GJ:49:VAL:O	2.20	0.42
46:GJ:49:VAL:HG12	46:GJ:50:TYR:CD1	2.55	0.42
46:GL:265:PHE:HD2	46:GL:378:PHE:HZ	1.68	0.42
46:HD:232:ALA:HB1	46:HD:268:ILE:HD12	2.02	0.42
45:HG:175:PRO:O	45:HG:394:LYS:NZ	2.39	0.42
46:HH:3:GLU:CD	46:HH:3:GLU:H	2.23	0.42
46:HH:117:LEU:HA	46:HH:120:VAL:HG12	2.01	0.42
46:HJ:145:SER:HB3	46:HJ:188:SER:OG	2.20	0.42
45:HK:201:ALA:HB3	45:HK:267:PHE:CD1	2.55	0.42
45:HM:88:HIS:HA	45:IM:280:LYS:HE2	2.02	0.42
45:IC:398:MET:CE	46:ID:346:PRO:HD2	2.50	0.42
46:ID:52:ASN:HD21	46:ID:62:ARG:NH1	2.17	0.42
45:IE:154:LEU:HD21	45:IE:198:THR:OG1	2.19	0.42
46:IF:19:LYS:CE	46:IF:227:HIS:HB2	2.50	0.42
46:IH:215:LEU:HD12	46:IH:215:LEU:H	1.84	0.42
46:IH:257:LEU:HD21	46:IH:314:SER:HB2	2.02	0.42
46:IJ:204:ASN:OD1	49:IJ:501:GDP:O2'	2.37	0.42
46:IL:208:TYR:HE1	46:IL:225:LEU:HD11	1.85	0.42
46:IN:3:GLU:H	46:IN:3:GLU:CD	2.22	0.42
46:IN:6:HIS:O	46:IN:63:ALA:HA	2.19	0.42
46:JB:224:ASP:O	46:JB:228:LEU:HD23	2.20	0.42
46:JF:284:LEU:HD13	46:JF:362:LYS:HG2	2.00	0.42
45:JI:188:ILE:HG22	45:JI:421:ALA:HB1	2.02	0.42
45:JK:8:HIS:HB2	45:JK:67:PHE:CD2	2.55	0.42
45:JK:263:PRO:HD3	46:JN:396:HIS:CE1	2.54	0.42
46:JL:201:VAL:HG23	46:JL:301:CYS:SG	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JM:141:VAL:HG21	45:JM:172:TYR:CE1	2.55	0.42
46:JN:193:VAL:HA	46:JN:264:HIS:CE1	2.55	0.42
46:KD:21:TRP:CH2	46:KD:61:PRO:HB3	2.55	0.42
45:KE:210:TYR:HE1	45:KE:227:LEU:HD11	1.84	0.42
45:KE:300:ASN:O	45:KE:300:ASN:ND2	2.42	0.42
45:KG:426:ALA:O	45:KG:429:GLU:HG3	2.20	0.42
46:KH:22:GLU:HG3	46:KH:81:PHE:CD1	2.55	0.42
46:KJ:54:ALA:HB3	46:KJ:58:ARG:HG2	2.02	0.42
45:KM:30:ILE:HG22	45:KM:31:GLN:O	2.19	0.42
45:KM:184:PRO:O	45:KM:188:ILE:HD12	2.20	0.42
45:KM:387:VAL:HA	45:KM:390:ARG:NH1	2.35	0.42
45:LA:90:GLU:HG2	45:LA:121:ARG:NH1	2.24	0.42
46:LB:54:ALA:HB1	46:MB:281:TYR:O	2.20	0.42
46:LB:207:LEU:HB3	46:LB:225:LEU:HG	2.02	0.42
45:LG:66:VAL:HG11	45:LG:122:ILE:HD11	2.01	0.42
46:LH:175:VAL:O	46:LH:175:VAL:HG23	2.20	0.42
46:LJ:103:LYS:HA	46:LJ:107:THR:HG22	2.02	0.42
46:LJ:404:ASP:N	46:LJ:404:ASP:OD1	2.51	0.42
45:LK:98:ASP:OD1	45:LK:99:ALA:N	2.53	0.42
45:LK:287:SER:N	45:LK:290:GLU:OE2	2.38	0.42
46:LL:86:ARG:HG3	46:LL:87:PRO:HD2	2.02	0.42
46:LN:383:GLU:HA	46:LN:386:THR:HG22	2.00	0.42
45:MA:100:ALA:HB1	46:MB:252:LYS:HA	2.02	0.42
45:MA:326:LYS:HD2	46:MD:220:PRO:HD2	2.01	0.42
46:MB:405:GLU:HA	46:MB:408:PHE:CD1	2.55	0.42
45:MC:250:VAL:HG21	45:MC:318:MET:CE	2.49	0.42
45:ME:282:TYR:CE1	45:ME:371:VAL:HG22	2.55	0.42
46:MF:270:PHE:HD2	46:MF:273:LEU:HD21	1.85	0.42
46:MH:375:GLN:HG2	46:MH:379:LYS:HD2	2.01	0.42
45:MI:282:TYR:CE1	45:MI:371:VAL:HG22	2.53	0.42
45:MM:114:ILE:HG22	45:MM:118:CYS:HG	1.84	0.42
46:MN:99:ASN:HA	46:MN:142:GLY:H	1.83	0.42
46:MN:293:MET:HE3	46:MN:367:PHE:HB2	2.01	0.42
45:NA:71:GLU:HG2	46:NB:2:ARG:HH12	1.85	0.42
45:NE:175:PRO:HA	45:NE:390:ARG:NH1	2.35	0.42
45:NG:103:PHE:CE1	45:NG:148:GLY:HA2	2.50	0.42
46:NH:282:ARG:HB3	46:NH:283:ALA:H	1.60	0.42
45:NK:96:LYS:HB3	46:NL:2:ARG:NH1	2.30	0.42
45:NK:326:LYS:NZ	46:NN:218:THR:O	2.35	0.42
46:NL:87:PRO:HA	46:NL:90:PHE:HD2	1.85	0.42
45:NM:419:SER:O	45:NM:423:GLU:OE1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NN:178:THR:HG22	46:NN:180:VAL:H	1.85	0.42
45:OA:275:ILE:HG23	45:OA:368:LEU:HD11	2.02	0.42
46:OB:9:GLY:HA2	46:OB:66:MET:O	2.20	0.42
45:OC:224:TYR:HD1	47:OC:501:GTP:C6	2.37	0.42
46:OD:113:ILE:HA	46:OD:116:VAL:HG12	2.01	0.42
45:OE:169:PHE:HA	45:OE:202:VAL:CG2	2.50	0.42
46:OF:187:LEU:HD11	46:OF:408:PHE:CE1	2.55	0.42
46:OF:329:GLN:HA	46:OF:332:ASN:HD21	1.84	0.42
45:OG:222:PRO:HG2	46:OH:324:LYS:HE3	2.01	0.42
46:OL:178:THR:HG22	46:OL:179:VAL:H	1.85	0.42
46:OL:304:ASP:HB3	46:OL:307:HIS:ND1	2.34	0.42
45:PA:113:GLU:OE2	45:PA:113:GLU:N	2.52	0.42
46:PB:9:GLY:HA2	46:PB:66:MET:O	2.20	0.42
45:PC:174:SER:HB3	45:PC:207:GLU:HG2	2.01	0.42
45:PC:210:TYR:CD1	46:PD:324:LYS:HE3	2.55	0.42
45:PC:282:TYR:OH	45:PC:370:LYS:HB3	2.19	0.42
46:PD:150:LEU:O	46:PD:154:LYS:HG2	2.19	0.42
46:PD:189:VAL:HA	46:PD:192:LEU:HB2	2.02	0.42
46:PD:285:THR:O	46:PD:288:GLU:HG3	2.20	0.42
45:PE:119:LEU:HG	45:PE:156:ARG:NH2	2.35	0.42
45:PE:288:VAL:HA	45:PE:291:ILE:HG12	2.00	0.42
45:PG:426:ALA:O	45:PG:429:GLU:HG2	2.18	0.42
46:PH:203:ASP:OD2	46:PH:302:ALA:N	2.29	0.42
46:PJ:16:ILE:HD11	49:PJ:501:GDP:N2	2.35	0.42
45:PK:217:LEU:HB3	45:PK:219:ILE:HG12	2.02	0.42
45:PM:176:GLN:HG2	46:PN:331:LEU:HD11	2.02	0.42
46:PN:1:MET:CE	46:PN:2:ARG:HG3	2.50	0.42
45:QA:324:VAL:O	45:QA:328:VAL:HG23	2.20	0.42
46:QD:50:TYR:O	46:QD:62:ARG:HG2	2.20	0.42
46:QD:391:ARG:HD2	46:QD:391:ARG:HA	1.83	0.42
46:QH:51:TYR:HB3	46:QH:59:TYR:HB3	2.01	0.42
46:QH:175:VAL:O	46:QH:175:VAL:HG13	2.20	0.42
45:QK:332:ILE:HA	45:QK:335:ILE:HG22	2.02	0.42
46:QL:3:GLU:HB3	46:QL:49:VAL:HA	2.02	0.42
46:QL:322:SER:OG	46:QL:325:GLU:OE1	2.38	0.42
45:RA:292:THR:HG21	45:RA:331:SER:HB3	2.01	0.42
46:RB:20:PHE:O	46:RB:24:ILE:HG12	2.19	0.42
46:RB:68:LEU:HD12	46:RB:93:GLY:HA3	2.01	0.42
46:RB:122:LYS:HE2	46:SB:291:GLN:CD	2.41	0.42
46:RB:161:ASP:OD2	46:RB:162:ARG:HD2	2.20	0.42
46:RB:257:LEU:HA	46:RB:312:THR:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RB:262:ARG:NH2	46:RB:418:LEU:HD12	2.34	0.42
46:RB:317:PHE:CD1	46:RB:365:VAL:HG22	2.55	0.42
45:RC:71:GLU:HA	45:RC:72:PRO:HD3	1.87	0.42
45:RC:83:TYR:HB3	45:RC:86:LEU:HD12	2.02	0.42
46:RD:251:ARG:HH21	45:RE:105:ARG:HD2	1.84	0.42
46:RD:390:ARG:HB2	46:RD:390:ARG:CZ	2.50	0.42
45:RE:24:PHE:HA	45:RE:27:GLU:HG2	2.01	0.42
45:RE:208:ALA:O	45:RE:212:ILE:HG12	2.20	0.42
45:RG:69:ASP:O	45:RG:94:SER:HA	2.20	0.42
45:RG:434:GLU:O	45:RG:437:ILE:HG12	2.20	0.42
46:RH:2:ARG:HH12	45:RI:71:GLU:HA	1.85	0.42
46:RJ:156:ARG:HH22	46:RJ:197:ASP:CG	2.22	0.42
45:RK:282:TYR:CE1	45:RK:370:LYS:HE3	2.55	0.42
45:RM:217:LEU:HD21	45:RM:368:LEU:HD22	2.01	0.42
46:RN:65:LEU:HD22	46:RN:90:PHE:CE1	2.55	0.42
46:RN:69:GLU:HA	46:RN:70:PRO:HD3	1.86	0.42
46:SB:9:GLY:HA2	46:SB:66:MET:O	2.20	0.42
46:SB:69:GLU:HA	46:SB:70:PRO:HD3	1.85	0.42
45:SG:194:LEU:HB2	45:SG:198:THR:OG1	2.19	0.42
46:SH:345:ILE:O	46:SH:345:ILE:HG23	2.19	0.42
45:SI:217:LEU:HD23	45:SI:217:LEU:HA	1.83	0.42
46:SJ:114:ASP:OD1	46:SJ:115:SER:N	2.52	0.42
45:SK:101:ASN:HA	45:SK:144:GLY:H	1.84	0.42
45:SK:214:ARG:NH2	45:SK:222:PRO:HG3	2.35	0.42
46:SL:24:ILE:HD11	46:SL:28:HIS:HE1	1.85	0.42
45:SM:226:ASN:HA	45:SM:229:ARG:HG2	2.01	0.42
45:TA:147:SER:HB2	45:TA:190:SER:HB3	2.01	0.42
46:TB:222:TYR:O	46:TB:226:ASN:ND2	2.33	0.42
46:TD:86:ARG:HH21	46:TD:87:PRO:CG	2.33	0.42
45:TE:208:ALA:O	45:TE:212:ILE:HG12	2.19	0.42
46:TF:65:LEU:HD11	46:TF:85:PHE:CD2	2.55	0.42
46:TH:69:GLU:HA	46:TH:70:PRO:HD3	1.86	0.42
46:TH:270:PHE:HD1	46:TH:366:THR:HG22	1.85	0.42
46:TJ:6:HIS:HB3	46:TJ:21:TRP:HZ2	1.85	0.42
46:TJ:193:VAL:HG21	46:TJ:418:LEU:HD13	2.02	0.42
46:TJ:269:GLY:HA2	46:TJ:300:MET:CE	2.50	0.42
46:TL:334:GLN:HA	46:TL:341:PHE:CE2	2.55	0.42
45:UG:68:LEU:HD11	45:UG:114:ILE:HG22	2.02	0.42
45:UG:356:ASN:OD1	45:UG:357:TYR:N	2.52	0.42
46:UH:102:ALA:HA	46:UH:403:MET:CE	2.49	0.42
46:UH:190:HIS:ND1	46:UH:411:ALA:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UI:2:ARG:HA	45:UI:133:GLN:HE22	1.85	0.42
45:UI:331:SER:O	45:UI:335:ILE:HG12	2.19	0.42
46:UJ:324:LYS:HD3	45:UK:222:PRO:CG	2.50	0.42
45:UM:56:THR:OG1	45:VK:282:TYR:O	2.37	0.42
45:UM:216:ASN:HB3	45:UM:275:ILE:O	2.20	0.42
46:UN:180:VAL:O	46:UN:180:VAL:HG12	2.19	0.42
46:VB:55:THR:HG23	46:WB:283:ALA:HA	2.01	0.42
46:VB:267:MET:N	46:VB:267:MET:SD	2.93	0.42
46:VB:272:PRO:HG3	46:VB:284:LEU:HD11	2.00	0.42
45:VC:404:PHE:CD2	46:VD:259:PRO:HA	2.55	0.42
45:VE:2:ARG:NH2	45:VE:242:LEU:HA	2.35	0.42
45:VE:81:GLY:O	45:VE:84:ARG:HG3	2.20	0.42
46:VF:2:ARG:HH12	46:VF:240:LEU:CD1	2.33	0.42
45:VG:324:VAL:CG1	45:VG:326:LYS:HG2	2.50	0.42
46:VH:3:GLU:CD	46:VH:3:GLU:H	2.23	0.42
45:VI:152:LEU:O	45:VI:155:GLU:HG3	2.20	0.42
45:VI:172:TYR:OH	45:VI:191:THR:HG22	2.19	0.42
45:VI:342:GLN:N	45:VI:342:GLN:OE1	2.53	0.42
46:VN:132:GLY:HA3	46:VN:163:ILE:O	2.20	0.42
46:VN:132:GLY:CA	46:VN:163:ILE:O	2.68	0.42
46:VN:276:ARG:HD3	46:VN:276:ARG:HA	1.89	0.42
46:WB:282:ARG:NH2	46:WB:288:GLU:HB3	2.35	0.42
46:WF:122:LYS:HD2	46:WF:122:LYS:C	2.40	0.42
45:WG:268:MET:HE3	45:WG:380:ASN:HB2	2.02	0.42
46:WJ:178:THR:HG22	46:WJ:180:VAL:H	1.85	0.42
45:WK:274:PRO:HB3	45:WK:291:ILE:HD12	2.02	0.42
46:WL:10:GLY:O	46:WL:14:ASN:ND2	2.52	0.42
46:WN:258:ILE:HD12	46:WN:264:HIS:HB3	2.00	0.42
46:WN:268:ILE:HG22	46:WN:368:VAL:HG23	2.02	0.42
45:DC:31:GLN:HB2	45:DC:32:PRO:HD2	2.01	0.42
45:DC:326:LYS:HA	45:DC:326:LYS:HD3	1.92	0.42
11:1S:42:ASN:ND2	45:WC:128:ASN:OD1	2.49	0.42
15:2X:6:GLU:OE2	46:ML:223:GLY:HA3	2.19	0.42
25:3R:429:GLU:OE1	46:FL:280:GLN:HB2	2.20	0.42
13:3U:192:ILE:HD13	46:WN:78:ALA:HB1	2.02	0.42
36:5A:57:PRO:HB3	46:KB:391:ARG:HD2	2.02	0.42
36:5A:58:TYR:HD2	46:KB:392:LYS:HD2	1.84	0.42
36:5A:90:GLN:HE22	36:5A:98:LEU:H	1.67	0.42
36:5A:156:VAL:HG22	36:5A:158:ASN:H	1.84	0.42
36:5B:142:GLN:HB3	46:NH:320:ARG:HH11	1.84	0.42
37:5E:116:TYR:CE1	45:NA:85:GLN:HA	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5F:16:GLN:HA	37:5F:22:LYS:HD2	2.02	0.42
37:5G:67:ARG:HA	37:5G:68:PRO:HD3	1.87	0.42
34:5R:64:ASP:OD2	34:5R:64:ASP:N	2.52	0.42
40:6G:118:LYS:HE2	46:UJ:117:LEU:HD23	2.02	0.42
10:6Q:25:TRP:CE3	10:6Q:59:ILE:HG22	2.55	0.42
34:6R:51:PRO:O	34:6R:54:ILE:HG22	2.20	0.42
34:6R:83:PRO:HD2	34:6R:86:LEU:HD12	2.01	0.42
34:7R:318:TYR:HB3	34:7R:321:MET:SD	2.59	0.42
34:7R:463:SER:OG	46:FB:276:ARG:NH2	2.44	0.42
45:AA:93:ILE:HG12	45:AA:117:LEU:HD22	2.00	0.42
45:AA:231:ILE:O	45:AA:235:ILE:HG12	2.20	0.42
46:AD:287:PRO:HG3	46:AD:329:GLN:NE2	2.35	0.42
46:AH:77:ARG:HB3	46:AH:77:ARG:HH11	1.84	0.42
45:AI:201:ALA:HB3	45:AI:267:PHE:CD2	2.55	0.42
46:AJ:289:LEU:HD11	46:AJ:363:MET:HB3	2.02	0.42
45:AK:171:ILE:HG23	45:AK:204:LEU:O	2.20	0.42
45:AM:384:ILE:O	45:AM:387:VAL:HG22	2.20	0.42
46:AN:317:PHE:HE2	46:AN:326:VAL:HG13	1.85	0.42
45:BA:318:MET:O	45:BA:375:VAL:HA	2.20	0.42
45:BC:221:ARG:NH2	46:BD:322:SER:H	2.18	0.42
46:BD:20:PHE:O	46:BD:24:ILE:HG12	2.20	0.42
46:BF:118:ASP:O	46:BF:122:LYS:HG2	2.19	0.42
46:BF:133:PHE:HB2	46:BF:164:MET:CE	2.50	0.42
46:BF:242:PHE:CD1	46:BF:356:ILE:HG13	2.55	0.42
45:BG:288:VAL:HA	45:BG:291:ILE:HG12	2.01	0.42
46:BJ:10:GLY:O	46:BJ:14:ASN:ND2	2.52	0.42
45:BK:306:ASP:OD2	45:BK:308:ARG:HB2	2.20	0.42
45:CA:32:PRO:HB3	45:CA:83:TYR:CE1	2.54	0.42
45:CA:335:ILE:HA	45:CA:338:LYS:NZ	2.35	0.42
46:CB:254:ALA:O	46:CB:258:ILE:HD12	2.20	0.42
46:CB:289:LEU:HD11	46:CB:363:MET:HG2	2.00	0.42
46:CB:375:GLN:CD	46:CB:379:LYS:HZ2	2.23	0.42
45:CC:257:THR:HG21	46:CD:98:GLY:O	2.20	0.42
45:CI:154:LEU:HD12	45:CI:155:GLU:N	2.34	0.42
46:CJ:287:PRO:HA	46:CJ:329:GLN:HE22	1.85	0.42
46:CJ:319:GLY:HA2	46:CJ:357:PRO:HD3	2.02	0.42
45:CK:350:GLY:HA2	46:CL:179:VAL:HG12	2.02	0.42
45:CM:35:GLN:NE2	45:CM:60:LYS:HB2	2.35	0.42
45:CM:88:HIS:ND1	45:CM:90:GLU:HG3	2.35	0.42
45:CM:331:SER:O	45:CM:335:ILE:HG12	2.19	0.42
45:DA:124:LYS:HE2	45:DA:124:LYS:HB2	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DB:97:ALA:HB3	46:DB:143:THR:HB	2.02	0.42
46:DB:377:MET:O	46:DB:380:ARG:HG2	2.20	0.42
46:DH:67:ASP:OD1	46:DH:68:LEU:N	2.50	0.42
46:DH:379:LYS:HG3	46:DH:383:GLU:OE2	2.20	0.42
45:DI:311:LYS:N	45:DI:382:THR:OG1	2.52	0.42
46:DL:334:GLN:HA	46:DL:341:PHE:CE1	2.54	0.42
45:EA:88:HIS:HB3	45:EA:91:GLN:HG2	2.02	0.42
46:ED:310:TYR:HB2	46:ED:341:PHE:HD1	1.85	0.42
45:EE:323:VAL:HA	45:EE:373:ARG:HH12	1.84	0.42
46:EF:378:PHE:HA	46:EF:381:VAL:HG12	2.01	0.42
46:EJ:258:ILE:HG13	45:EK:407:TRP:HE1	1.85	0.42
46:FB:201:VAL:HG22	46:FB:266:PHE:O	2.20	0.42
45:FC:181:VAL:HG23	45:FC:182:VAL:HG13	2.02	0.42
45:FC:205:ASP:OD1	45:FC:303:ALA:HA	2.20	0.42
45:FE:135:PHE:HZ	45:FE:161:TYR:HE2	1.68	0.42
46:FF:406:MET:N	46:FF:406:MET:SD	2.93	0.42
45:FG:398:MET:HE1	46:FH:345:ILE:HA	2.02	0.42
46:FH:102:ALA:HB2	46:FH:403:MET:HE2	2.02	0.42
45:FI:256:GLN:H	45:FI:256:GLN:HG3	1.66	0.42
45:FI:287:SER:HB3	45:FI:290:GLU:OE1	2.20	0.42
45:FI:332:ILE:HD12	45:FI:351:PHE:CE2	2.55	0.42
46:FJ:229:VAL:O	46:FJ:233:MET:HG3	2.20	0.42
45:FK:27:GLU:HG3	45:FK:28:HIS:ND1	2.35	0.42
46:FN:12:CYS:O	46:FN:16:ILE:HG12	2.20	0.42
46:FN:20:PHE:O	46:FN:24:ILE:HG12	2.20	0.42
45:GC:145:THR:HG22	47:GC:501:GTP:PG	2.60	0.42
45:GE:27:GLU:OE1	45:GE:243:ARG:NH1	2.34	0.42
45:GE:68:LEU:HD21	45:GE:118:CYS:SG	2.60	0.42
45:GG:164:LYS:HD3	45:GG:164:LYS:HA	1.85	0.42
45:GI:150:GLY:O	45:GI:154:LEU:HG	2.19	0.42
45:GI:205:ASP:OD1	45:GI:303:ALA:HA	2.20	0.42
45:GK:259:LEU:HD11	45:GK:316:SER:HB2	2.01	0.42
46:GL:318:ARG:HH11	46:GL:358:PRO:HG3	1.85	0.42
46:GN:185:ALA:O	46:GN:189:VAL:HG23	2.20	0.42
45:HA:260:VAL:HB	46:HD:397:TRP:CH2	2.54	0.42
46:HB:20:PHE:O	46:HB:24:ILE:HG12	2.20	0.42
45:HC:200:VAL:HG13	45:HC:268:MET:SD	2.59	0.42
45:HE:34:GLY:O	45:HE:60:LYS:HA	2.20	0.42
45:HE:434:GLU:O	45:HE:437:ILE:HG12	2.20	0.42
46:HF:175:VAL:CG2	46:HF:205:GLU:HB3	2.49	0.42
46:HF:324:LYS:HG3	46:HF:325:GLU:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:HG:91:GLN:HB3	45:HG:121:ARG:HH12	1.84	0.42
46:HH:148:GLY:O	46:HH:152:ILE:HG12	2.19	0.42
45:HI:69:ASP:CG	45:HI:71:GLU:H	2.23	0.42
46:HJ:287:PRO:HG3	46:HJ:329:GLN:NE2	2.35	0.42
46:HJ:372:THR:O	46:HJ:375:GLN:HG2	2.20	0.42
46:HL:6:HIS:O	46:HL:63:ALA:HA	2.20	0.42
45:HM:123:ARG:HH11	45:HM:123:ARG:HA	1.85	0.42
46:HN:86:ARG:HA	46:IN:281:TYR:CE1	2.55	0.42
45:IA:401:LYS:HB2	45:IA:401:LYS:HE3	1.78	0.42
46:IB:200:MET:SD	46:IB:268:ILE:HD13	2.60	0.42
46:ID:145:SER:OG	46:ID:188:SER:HB3	2.20	0.42
45:IE:88:HIS:HB3	45:IE:91:GLN:HG2	2.01	0.42
46:IF:341:PHE:HB3	46:IF:348:ASN:HD21	1.84	0.42
46:IH:73:MET:CE	46:IH:92:PHE:HB3	2.50	0.42
45:II:200:VAL:HG13	45:II:268:MET:CE	2.50	0.42
45:II:402:ARG:HA	45:II:402:ARG:HD3	1.80	0.42
45:IK:323:VAL:HG13	45:IK:373:ARG:HG2	2.02	0.42
46:IL:69:GLU:HA	46:IL:70:PRO:HD3	1.93	0.42
46:IL:91:VAL:HG21	46:IL:116:VAL:HB	2.02	0.42
45:IM:419:SER:O	45:IM:423:GLU:OE1	2.38	0.42
46:IN:361:LEU:HD23	46:IN:361:LEU:HA	1.83	0.42
45:JC:174:SER:HB3	45:JC:207:GLU:HG2	2.01	0.42
45:JC:215:ARG:HB2	45:JC:215:ARG:HH11	1.84	0.42
46:JD:285:THR:HG23	46:JD:288:GLU:H	1.85	0.42
45:JE:175:PRO:HG3	45:JE:390:ARG:NH1	2.35	0.42
46:JF:263:LEU:HD22	46:JF:422:TYR:CD1	2.54	0.42
46:JH:145:SER:HB2	46:JH:188:SER:OG	2.20	0.42
45:JI:90:GLU:H	45:KI:280:LYS:NZ	2.18	0.42
45:JI:108:TYR:HA	45:JI:112:LYS:HZ3	1.85	0.42
45:JK:88:HIS:ND1	45:JK:89:PRO:HD2	2.35	0.42
45:JK:262:TYR:OH	46:JN:391:ARG:O	2.26	0.42
45:KE:152:LEU:HD12	45:KE:152:LEU:HA	1.88	0.42
45:KE:214:ARG:HD2	45:KE:214:ARG:O	2.20	0.42
46:KF:253:LEU:HD11	46:KF:316:LEU:HD11	2.02	0.42
46:KH:3:GLU:HG3	46:KH:62:ARG:NH1	2.35	0.42
45:KI:253:THR:HA	45:KI:256:GLN:NE2	2.34	0.42
46:KJ:32:PRO:HG3	46:KJ:81:PHE:CD2	2.55	0.42
46:KJ:173:PRO:HD2	46:KJ:174:LYS:HZ3	1.85	0.42
45:LC:141:VAL:HG23	45:LC:170:THR:HB	2.02	0.42
45:LC:223:THR:HG22	45:LC:224:TYR:H	1.84	0.42
45:LE:71:GLU:HA	45:LE:72:PRO:HD3	1.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LG:170:THR:O	45:LG:204:LEU:HB2	2.18	0.42
46:LH:65:LEU:HD22	46:LH:90:PHE:CE1	2.54	0.42
45:LI:66:VAL:HG11	45:LI:122:ILE:HD11	2.02	0.42
45:LI:392:ASP:OD1	45:LI:422:ARG:NH1	2.53	0.42
46:LL:73:MET:HE1	46:LL:91:VAL:O	2.19	0.42
46:LL:200:MET:CE	46:LL:268:ILE:HG21	2.50	0.42
45:LM:69:ASP:OD1	45:LM:70:LEU:N	2.51	0.42
46:MF:311:LEU:HD23	46:MF:311:LEU:HA	1.89	0.42
45:MG:101:ASN:HA	45:MG:144:GLY:H	1.84	0.42
45:MG:276:ILE:HG13	45:MG:280:LYS:HE3	2.01	0.42
45:MI:338:LYS:HE2	45:MI:338:LYS:HB2	1.81	0.42
46:MJ:173:PRO:HG2	46:MJ:380:ARG:NE	2.34	0.42
45:MK:56:THR:HG23	45:MK:58:ALA:H	1.85	0.42
45:MK:231:ILE:O	45:MK:235:ILE:HG12	2.20	0.42
46:ML:105:HIS:CE1	46:ML:150:LEU:HD12	2.55	0.42
46:ML:233:MET:O	46:ML:236:VAL:HG12	2.20	0.42
45:NC:425:LEU:O	45:NC:429:GLU:HG2	2.20	0.42
46:ND:97:ALA:HA	46:ND:103:LYS:HZ2	1.84	0.42
46:NF:207:LEU:HD23	46:NF:225:LEU:HB3	2.00	0.42
45:NG:11:GLN:NE2	46:NH:245:GLN:O	2.52	0.42
45:NI:101:ASN:HA	45:NI:144:GLY:H	1.84	0.42
45:NI:107:HIS:ND1	45:NI:107:HIS:O	2.53	0.42
45:NI:265:ILE:HG12	45:NI:432:TYR:CE1	2.55	0.42
45:NI:330:ALA:O	45:NI:334:THR:HG23	2.20	0.42
46:NL:113:ILE:HG12	46:NL:117:LEU:HG	2.02	0.42
47:NM:501:GTP:O1G	46:NN:252:LYS:NZ	2.33	0.42
46:NN:194:GLU:OE2	46:NN:414:ASN:ND2	2.53	0.42
46:NN:373:ALA:O	46:NN:376:GLU:HG2	2.19	0.42
46:NN:386:THR:OG1	46:NN:390:ARG:NH2	2.53	0.42
45:OA:209:ILE:HG12	45:OA:230:LEU:HD11	2.02	0.42
45:OA:386:GLU:OE1	45:OA:386:GLU:N	2.51	0.42
46:OD:52:ASN:HD21	46:OD:62:ARG:HB3	1.84	0.42
45:OE:137:VAL:HG23	45:OE:168:GLY:HA2	2.02	0.42
46:OF:213:ARG:NH1	46:OF:297:LYS:HG2	2.35	0.42
45:OG:119:LEU:O	45:OG:122:ILE:HG22	2.20	0.42
45:OG:271:SER:OG	45:OG:301:MET:HG3	2.20	0.42
45:OG:427:ALA:HA	45:OG:430:LYS:HG2	2.02	0.42
46:OH:87:PRO:HA	46:OH:90:PHE:CD2	2.55	0.42
45:OI:141:VAL:HG11	45:OI:172:TYR:CD2	2.55	0.42
45:OI:185:TYR:HE1	45:OI:398:MET:HB2	1.85	0.42
45:OI:210:TYR:HE1	45:OI:227:LEU:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:350:LYS:NZ	46:OJ:351:SER:O	2.48	0.42
45:OK:107:HIS:ND1	45:OK:107:HIS:O	2.53	0.42
45:OK:141:VAL:HG12	45:OK:171:ILE:O	2.20	0.42
45:OM:206:ASN:HB2	45:OM:210:TYR:HE2	1.84	0.42
46:ON:316:LEU:HB2	46:ON:366:THR:HB	2.01	0.42
45:PA:98:ASP:OD1	45:PA:99:ALA:N	2.53	0.42
45:PA:173:PRO:O	45:PA:390:ARG:NH2	2.53	0.42
46:PB:344:TRP:O	46:PB:345:ILE:HD13	2.19	0.42
45:PC:195:LEU:HD12	45:PC:428:LEU:HD22	2.01	0.42
45:PC:260:VAL:HG13	45:PC:265:ILE:O	2.20	0.42
46:PD:21:TRP:CZ3	46:PD:50:TYR:HB3	2.55	0.42
46:PD:54:ALA:HB3	46:PD:58:ARG:HG2	2.00	0.42
46:PD:171:PRO:HB2	46:PD:181:GLU:HG2	2.01	0.42
45:PE:209:ILE:CG2	45:PE:227:LEU:HG	2.50	0.42
46:PF:184:ASN:OD1	46:PF:185:ALA:N	2.53	0.42
45:PG:107:HIS:ND1	45:PG:107:HIS:O	2.53	0.42
45:PG:119:LEU:HG	45:PG:156:ARG:NE	2.35	0.42
46:PJ:210:ILE:O	46:PJ:214:THR:OG1	2.32	0.42
46:PJ:344:TRP:HB3	46:PJ:430:ALA:HB2	2.02	0.42
45:PK:163:LYS:HA	45:PK:163:LYS:HD3	1.97	0.42
46:PL:64:ILE:HA	46:PL:89:ASN:HB3	2.02	0.42
46:PN:9:GLY:HA2	46:PN:66:MET:O	2.20	0.42
46:QB:83:GLN:CD	46:QB:83:GLN:H	2.23	0.42
46:QB:232:ALA:HB1	46:QB:268:ILE:HD12	2.01	0.42
45:QC:326:LYS:HD3	46:QD:212:PHE:HZ	1.83	0.42
45:QC:345:ASP:N	45:QC:345:ASP:OD2	2.53	0.42
45:QC:414:GLU:HG2	45:QC:417:GLU:OE1	2.20	0.42
46:QD:86:ARG:CZ	46:QD:89:ASN:HB3	2.50	0.42
45:QE:34:GLY:HA3	45:QE:60:LYS:HG3	2.01	0.42
46:QF:258:ILE:HD11	45:QG:407:TRP:HZ2	1.85	0.42
45:QI:174:SER:HB3	45:QI:177:VAL:HB	2.02	0.42
46:QJ:289:LEU:HD23	46:QJ:289:LEU:HA	1.82	0.42
46:QL:36:TYR:CZ	46:QL:44:LEU:HD11	2.55	0.42
45:QM:67:PHE:HD2	45:QM:92:LEU:HD13	1.85	0.42
46:QN:105:HIS:CE1	46:QN:150:LEU:HD12	2.54	0.42
46:RB:105:HIS:CE1	46:RB:150:LEU:HD12	2.55	0.42
45:RG:60:LYS:HE3	45:RG:60:LYS:HB3	1.86	0.42
45:RG:292:THR:HG21	45:RG:331:SER:HB2	2.02	0.42
46:RH:288:GLU:O	46:RH:291:GLN:HG3	2.19	0.42
45:RK:27:GLU:OE2	45:RK:243:ARG:NH2	2.52	0.42
45:RK:36:MET:CE	45:RK:37:PRO:HD2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:209:ILE:CD1	45:RK:227:LEU:HD12	2.50	0.42
46:RL:135:ILE:HD11	46:RL:152:ILE:HD11	2.01	0.42
46:RL:317:PHE:HD1	46:RL:365:VAL:HG22	1.84	0.42
46:SB:122:LYS:HA	46:SB:122:LYS:HD2	1.85	0.42
46:SB:221:THR:HG22	46:SB:224:ASP:OD1	2.20	0.42
45:SC:317:MET:HB3	45:SC:319:TYR:CE1	2.55	0.42
46:SD:317:PHE:CD1	46:SD:365:VAL:HG22	2.55	0.42
45:SE:402:ARG:NH1	45:SE:405:VAL:HB	2.35	0.42
45:SE:411:GLU:N	45:SE:411:GLU:OE1	2.52	0.42
45:SG:225:THR:O	45:SG:229:ARG:HG3	2.19	0.42
46:SH:136:THR:HG22	46:SH:167:PHE:HB2	2.00	0.42
46:SH:182:PRO:HD2	46:SH:183:TYR:H	1.84	0.42
46:SH:258:ILE:HG13	45:SI:407:TRP:CZ2	2.55	0.42
45:SI:223:THR:HG23	45:SI:225:THR:H	1.85	0.42
45:SK:102:ASN:HB3	45:SK:105:ARG:HB2	2.02	0.42
45:SK:386:GLU:O	45:SK:390:ARG:HG3	2.20	0.42
46:SL:131:GLN:NE2	46:SL:251:ARG:HG3	2.35	0.42
45:TC:385:ALA:HA	45:TC:388:PHE:HD2	1.84	0.42
46:TF:256:ASN:ND2	45:TG:181:VAL:HG22	2.35	0.42
46:TF:258:ILE:HG13	46:TF:258:ILE:O	2.20	0.42
45:TG:352:LYS:HD2	46:TH:179:VAL:HG13	2.02	0.42
46:TH:6:His:O	46:TH:63:ALA:HA	2.20	0.42
46:TH:21:TRP:CD1	46:TH:85:PHE:HZ	2.37	0.42
45:TI:280:LYS:HA	45:TI:283:HIS:ND1	2.35	0.42
46:TJ:68:LEU:HD13	46:TJ:93:GLY:HA3	2.01	0.42
46:TJ:203:ASP:O	46:TJ:207:LEU:HG	2.19	0.42
45:TM:88:HIS:ND1	45:TM:90:GLU:HG3	2.35	0.42
45:UA:64:ARG:NH1	45:UA:129:CYS:SG	2.93	0.42
46:UB:164:MET:HE3	46:UB:165:GLU:N	2.34	0.42
46:UB:322:SER:OG	45:UC:221:ARG:CZ	2.68	0.42
46:UB:350:LYS:HD2	45:UC:180:ALA:HA	2.01	0.42
45:UC:252:ILE:HA	45:UC:255:PHE:CD2	2.55	0.42
46:UD:233:MET:O	46:UD:236:VAL:HG12	2.19	0.42
45:UE:135:PHE:CD2	45:UE:157:LEU:HD13	2.55	0.42
46:UL:310:TYR:CD1	46:UL:371:SER:HB2	2.55	0.42
46:VB:113:ILE:HA	46:VB:116:VAL:HG22	2.01	0.42
45:VC:2:ARG:O	45:VC:51:THR:HA	2.20	0.42
45:VC:216:ASN:HB3	45:VC:275:ILE:O	2.20	0.42
45:VC:248:LEU:HD12	45:VC:248:LEU:HA	1.89	0.42
45:VC:258:ASN:ND2	45:VC:352:LYS:HE3	2.35	0.42
45:VC:331:SER:O	45:VC:335:ILE:HG12	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VE:377:MET:SD	45:VE:379:SER:HB3	2.60	0.42
46:VF:139:LEU:HD22	46:VF:188:SER:OG	2.20	0.42
46:VF:238:CYS:SG	46:VF:239:CYS:N	2.93	0.42
45:VG:315:CYS:O	45:VG:351:PHE:HA	2.20	0.42
46:VH:55:THR:HG23	46:WH:283:ALA:HA	2.02	0.42
45:VI:153:LEU:O	45:VI:157:LEU:HD23	2.20	0.42
45:VI:356:ASN:OD1	45:VI:357:TYR:N	2.53	0.42
45:VI:377:MET:O	45:VI:378:ILE:HD13	2.20	0.42
46:VJ:156:ARG:NH1	46:VJ:195:ASN:O	2.53	0.42
46:VL:22:GLU:HG2	46:VL:81:PHE:CD1	2.55	0.42
46:VL:274:THR:HG21	46:VL:279:GLN:HB3	2.02	0.42
45:VM:71:GLU:OE1	46:VN:247:ASN:ND2	2.53	0.42
45:VM:172:TYR:HB2	45:VM:203:MET:SD	2.59	0.42
45:WA:145:THR:HG22	47:WA:501:GTP:PG	2.60	0.42
45:WA:154:LEU:HD12	45:WA:155:GLU:HG3	2.02	0.42
46:WD:7:ILE:HG22	46:WD:64:ILE:HD13	2.02	0.42
46:WD:41:ASP:OD1	46:WD:42:LEU:N	2.52	0.42
46:WD:139:LEU:HD22	46:WD:188:SER:CB	2.50	0.42
45:WE:345:ASP:OD1	45:WE:439:THR:HG22	2.20	0.42
45:WI:174:SER:HB2	45:WI:177:VAL:HB	2.01	0.42
45:WI:251:ASP:OD2	45:WI:253:THR:HG22	2.20	0.42
45:WK:96:LYS:NZ	46:WL:129:CYS:SG	2.79	0.42
46:WN:6:HIS:O	46:WN:63:ALA:HA	2.19	0.42
45:CE:103:PHE:N	45:CE:408:TYR:HE2	2.18	0.42
1:0A:3:GLN:HE21	34:7R:7:LYS:C	2.23	0.41
7:0G:43:SER:HA	46:JL:355:ASP:HB3	2.02	0.41
10:1Q:102:ARG:HH12	45:AC:430:LYS:HG3	1.85	0.41
26:1W:78:GLN:HG2	45:KE:57:GLY:O	2.19	0.41
31:2I:139:ARG:NH2	46:GD:337:ASN:HB3	2.35	0.41
10:3Q:115:LYS:HD2	45:AG:264:ARG:HH21	1.85	0.41
36:5D:65:THR:HG23	36:5D:68:ASP:H	1.85	0.41
37:5G:18:THR:O	37:5G:22:LYS:HG2	2.19	0.41
37:5G:154:TYR:CZ	46:NL:35:THR:HG23	2.54	0.41
10:5Q:29:ILE:HG13	10:5Q:34:ILE:HD11	2.01	0.41
34:5R:48:LYS:O	34:5R:49:ASN:OD1	2.38	0.41
35:5S:162:LEU:HG	35:5S:221:THR:HG21	2.02	0.41
39:6F:42:ASN:O	39:6F:46:PHE:HB2	2.20	0.41
34:7R:48:LYS:HG3	34:7R:49:ASN:N	2.34	0.41
34:7R:593:ASP:OD2	34:7R:597:ASN:N	2.53	0.41
45:AA:203:MET:HE3	45:AA:205:ASP:HB3	2.02	0.41
45:AC:210:TYR:HB3	46:AD:324:LYS:HZ3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AD:105:HIS:CD2	46:AD:150:LEU:HB2	2.54	0.41
45:AE:186:ASN:OD1	45:AE:187:SER:N	2.53	0.41
45:AG:377:MET:SD	45:AG:379:SER:HB3	2.60	0.41
46:AJ:173:PRO:HG2	46:AJ:380:ARG:NE	2.35	0.41
45:AK:141:VAL:HG12	45:AK:171:ILE:O	2.19	0.41
45:AK:213:CYS:SG	45:AK:219:ILE:HB	2.59	0.41
46:AL:139:LEU:HD22	46:AL:170:VAL:HG12	2.02	0.41
46:AL:199:CYS:HB3	46:AL:265:PHE:CD2	2.54	0.41
46:AL:290:THR:O	46:AL:293:MET:HB3	2.20	0.41
45:AM:262:TYR:HB2	45:AM:265:ILE:HG12	2.01	0.41
45:AM:425:LEU:HA	45:AM:425:LEU:HD23	1.79	0.41
46:AN:202:ILE:HD11	46:AN:268:ILE:HD11	2.02	0.41
45:BA:141:VAL:HG11	45:BA:172:TYR:CD1	2.54	0.41
45:BA:433:GLU:O	45:BA:437:ILE:HG23	2.20	0.41
46:BD:6:HIS:HD1	46:BD:21:TRP:HE1	1.68	0.41
45:BE:221:ARG:N	45:BE:222:PRO:HD3	2.34	0.41
45:BE:352:LYS:HD2	46:BH:177:ASP:O	2.20	0.41
45:BE:419:SER:O	45:BE:423:GLU:OE1	2.38	0.41
46:BF:137:HIS:O	46:BF:168:SER:HA	2.20	0.41
46:BF:318:ARG:HB2	46:BF:364:ALA:HB3	2.02	0.41
45:BG:257:THR:HG22	46:BJ:397:TRP:HZ3	1.85	0.41
46:BH:348:ASN:O	46:BH:349:ILE:HD13	2.20	0.41
45:BI:11:GLN:NE2	46:BJ:245:GLN:O	2.53	0.41
45:BI:210:TYR:CD1	46:BJ:324:LYS:HE3	2.55	0.41
45:BI:268:MET:N	45:BI:268:MET:SD	2.93	0.41
45:BI:431:ASP:O	45:BI:434:GLU:HG3	2.20	0.41
45:BK:102:ASN:HB3	45:BK:105:ARG:HG3	2.02	0.41
46:BL:1:MET:O	46:BL:2:ARG:HG2	2.19	0.41
46:BN:200:MET:HE2	46:BN:268:ILE:HG21	2.02	0.41
45:CA:83:TYR:HB3	45:CA:86:LEU:HD12	2.01	0.41
45:CA:141:VAL:HG12	45:CA:171:ILE:O	2.19	0.41
46:CD:345:ILE:HG23	46:CD:345:ILE:O	2.20	0.41
45:CG:167:LEU:HG	45:CG:200:VAL:HB	2.01	0.41
45:CG:324:VAL:CG1	45:CG:326:LYS:HE2	2.47	0.41
46:CH:246:LEU:HD11	45:CI:224:TYR:HE2	1.84	0.41
45:CI:268:MET:CG	45:CI:380:ASN:HB3	2.49	0.41
45:CK:47:ASP:O	45:CK:50:ASN:HB3	2.20	0.41
45:CK:107:HIS:ND1	45:CK:107:HIS:O	2.53	0.41
45:CK:167:LEU:HD13	45:CK:200:VAL:HB	2.02	0.41
46:DB:11:GLN:O	46:DB:15:GLN:HG2	2.20	0.41
46:DH:1:MET:N	46:DH:48:ASN:HD21	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DH:101:TRP:CE3	46:DH:187:LEU:HD13	2.54	0.41
45:DK:3:GLU:N	45:DK:3:GLU:OE1	2.53	0.41
46:DL:11:GLN:HA	46:DL:72:THR:HG21	2.02	0.41
46:DL:28:HIS:HA	46:DL:43:GLN:OE1	2.19	0.41
45:DM:5:ILE:HD12	45:DM:125:LEU:HD13	2.03	0.41
45:DM:24:PHE:O	45:DM:27:GLU:HG2	2.20	0.41
45:DM:69:ASP:O	45:DM:94:SER:HA	2.20	0.41
45:DM:319:TYR:CE2	45:DM:328:VAL:HG22	2.54	0.41
45:DM:331:SER:O	45:DM:335:ILE:HG12	2.19	0.41
45:EA:141:VAL:HG11	45:EA:172:TYR:HD1	1.83	0.41
45:EC:210:TYR:HE1	45:EC:227:LEU:HD11	1.85	0.41
46:ED:9:GLY:HA2	46:ED:66:MET:O	2.19	0.41
45:EE:88:HIS:HB3	45:EE:91:GLN:HG2	2.02	0.41
45:EE:328:VAL:HG11	45:EE:353:VAL:HG21	2.02	0.41
45:EE:430:LYS:O	45:EE:433:GLU:HG3	2.20	0.41
45:EI:93:ILE:HG22	45:EI:114:ILE:HD11	2.02	0.41
45:EI:202:VAL:HA	45:EI:268:MET:O	2.20	0.41
46:EJ:19:LYS:HZ1	46:EJ:227:HIS:HB2	1.84	0.41
45:EK:419:SER:O	45:EK:423:GLU:OE1	2.38	0.41
46:EL:70:PRO:HG3	46:EL:92:PHE:CD2	2.55	0.41
46:EL:108:GLU:O	46:EL:111:GLU:HG3	2.20	0.41
46:FB:16:ILE:HD13	46:FB:226:ASN:OD1	2.20	0.41
46:FB:322:SER:OG	46:FB:323:THR:N	2.53	0.41
46:FB:359:LYS:HA	46:FB:359:LYS:HD2	1.78	0.41
46:FD:268:ILE:C	46:FD:299:MET:HE3	2.40	0.41
46:FF:395:LEU:O	46:FF:399:THR:HG23	2.20	0.41
46:FH:19:LYS:HG3	46:FH:226:ASN:HB3	2.02	0.41
46:FH:113:ILE:HA	46:FH:116:VAL:HG12	2.01	0.41
46:FH:178:THR:O	46:FH:181:GLU:HG3	2.21	0.41
46:FH:238:CYS:SG	46:FH:239:CYS:N	2.93	0.41
45:FI:100:ALA:O	46:FJ:255:VAL:HG11	2.20	0.41
46:FN:97:ALA:HB3	46:FN:143:THR:HB	2.02	0.41
46:FN:318:ARG:HB3	46:FN:357:PRO:HA	2.02	0.41
45:GC:221:ARG:HH22	46:GD:325:GLU:CD	2.23	0.41
46:GD:226:ASN:ND2	49:GD:501:GDP:HN1	2.11	0.41
46:GF:77:ARG:HH11	46:GF:77:ARG:HG2	1.85	0.41
46:GF:309:ARG:NH2	46:GF:426:GLN:O	2.45	0.41
46:GF:385:PHE:CE2	46:GF:412:GLU:HB3	2.55	0.41
46:GF:399:THR:HA	46:GF:403:MET:O	2.20	0.41
45:GG:344:VAL:HG11	45:GG:346:TRP:CH2	2.55	0.41
46:GJ:107:THR:HG1	46:GJ:108:GLU:CD	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GJ:222:TYR:O	46:GJ:226:ASN:ND2	2.26	0.41
46:GJ:359:LYS:HE3	46:GJ:359:LYS:HB2	1.88	0.41
45:GK:135:PHE:HB2	45:GK:166:LYS:HG2	2.02	0.41
46:GL:239:CYS:SG	46:GL:247:ASN:HA	2.60	0.41
46:HB:201:VAL:HG23	46:HB:301:CYS:SG	2.60	0.41
45:HC:32:PRO:HB3	45:HC:83:TYR:HE1	1.84	0.41
45:HC:426:ALA:O	45:HC:429:GLU:HG3	2.20	0.41
45:HE:296:PHE:HD2	45:HE:335:ILE:HD12	1.85	0.41
45:HE:397:LEU:HD23	46:HF:346:PRO:HG3	2.01	0.41
46:HF:99:ASN:HA	46:HF:142:GLY:HA3	2.02	0.41
45:HG:222:PRO:HG2	46:HH:324:LYS:CD	2.50	0.41
46:HH:139:LEU:HD13	46:HH:168:SER:OG	2.19	0.41
45:HI:414:GLU:OE2	45:HI:417:GLU:N	2.53	0.41
46:HL:99:ASN:HA	46:HL:142:GLY:H	1.84	0.41
45:IC:98:ASP:OD1	45:IC:99:ALA:N	2.52	0.41
45:IC:368:LEU:HD12	45:IC:368:LEU:H	1.85	0.41
45:IG:155:GLU:OE2	45:IG:156:ARG:NH2	2.53	0.41
45:IG:336:LYS:HE3	45:IG:351:PHE:HE1	1.85	0.41
45:IG:430:LYS:O	45:IG:433:GLU:HG3	2.20	0.41
46:IH:32:PRO:HA	46:IH:84:LEU:HD11	2.02	0.41
45:II:52:PHE:CZ	45:II:239:THR:HG21	2.55	0.41
45:II:69:ASP:HB3	45:II:75:ILE:HD11	2.01	0.41
45:II:109:THR:HB	45:II:110:ILE:HD12	2.02	0.41
46:IJ:280:GLN:HG2	46:IJ:281:TYR:HD2	1.85	0.41
46:IL:19:LYS:HG3	46:IL:226:ASN:HB3	2.02	0.41
45:IM:207:GLU:OE1	45:IM:207:GLU:N	2.49	0.41
46:IN:318:ARG:NE	46:IN:356:ILE:O	2.40	0.41
45:JA:215:ARG:HG3	45:JA:216:ASN:N	2.35	0.41
45:JC:56:THR:HG21	45:JC:60:LYS:HG2	2.02	0.41
45:JC:276:ILE:HD13	45:JC:281:ALA:HA	2.02	0.41
46:JD:190:HIS:ND1	46:JD:411:ALA:HA	2.34	0.41
45:JI:395:PHE:CD2	45:JI:422:ARG:HD3	2.55	0.41
45:JK:101:ASN:HA	45:JK:144:GLY:H	1.84	0.41
45:JK:211:ASP:O	45:JK:215:ARG:HD3	2.20	0.41
45:JM:107:HIS:ND1	45:JM:107:HIS:O	2.53	0.41
45:JM:169:PHE:HA	45:JM:202:VAL:HG22	2.02	0.41
45:KC:404:PHE:CD1	46:KD:259:PRO:HA	2.55	0.41
46:KD:238:CYS:HB2	46:KD:318:ARG:HH11	1.85	0.41
46:KD:420:SER:O	46:KD:423:GLN:HG3	2.19	0.41
46:KF:20:PHE:HA	46:KF:230:SER:OG	2.20	0.41
46:KF:40:SER:OG	46:KF:41:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KI:210:TYR:CE1	45:KI:227:LEU:HD11	2.55	0.41
45:KK:88:HIS:HE2	45:LK:284:GLU:CD	2.18	0.41
45:KK:309:HIS:HA	45:NK:282:TYR:HE2	1.84	0.41
45:KM:384:ILE:O	45:KM:387:VAL:HG22	2.20	0.41
46:KN:67:ASP:OD1	46:KN:68:LEU:N	2.48	0.41
46:KN:233:MET:O	46:KN:236:VAL:HG12	2.20	0.41
46:LB:293:MET:HE3	46:LB:367:PHE:HB2	2.02	0.41
46:LD:189:VAL:HG21	46:LD:378:PHE:CE2	2.55	0.41
45:LG:256:GLN:H	45:LG:256:GLN:HG3	1.67	0.41
45:LG:383:ALA:O	45:LG:386:GLU:HG2	2.20	0.41
45:LI:203:MET:HE3	45:LI:203:MET:HA	2.02	0.41
45:LM:385:ALA:HA	45:LM:388:PHE:HD2	1.84	0.41
46:LN:12:CYS:HB2	49:LN:501:GDP:C8	2.55	0.41
45:MC:188:ILE:HD11	45:MC:391:LEU:HB3	2.02	0.41
45:ME:252:ILE:HD12	45:ME:252:ILE:H	1.85	0.41
46:MF:318:ARG:HH11	46:MF:358:PRO:HG3	1.83	0.41
45:MG:150:GLY:O	45:MG:154:LEU:HG	2.20	0.41
46:MN:285:THR:HB	46:MN:287:PRO:HD2	2.03	0.41
45:NA:120:ASP:HB3	45:NA:124:LYS:HZ1	1.85	0.41
45:NA:120:ASP:HA	45:NA:123:ARG:HG2	2.02	0.41
45:NC:9:VAL:HG22	45:NC:146:GLY:HA2	2.02	0.41
45:NC:426:ALA:O	45:NC:430:LYS:HG2	2.20	0.41
46:ND:111:GLU:OE1	46:ND:111:GLU:N	2.50	0.41
46:NF:65:LEU:HD11	46:NF:85:PHE:CD2	2.55	0.41
46:NH:64:ILE:HD12	46:NH:120:VAL:HG12	2.02	0.41
46:NH:109:GLY:O	46:NH:113:ILE:HG23	2.19	0.41
45:NK:229:ARG:NH1	45:NK:366:GLY:HA2	2.35	0.41
46:NL:396:HIS:CD2	46:NL:397:TRP:HD1	2.38	0.41
45:NM:21:TRP:CE2	45:NM:65:ALA:HB2	2.55	0.41
45:NM:330:ALA:O	45:NM:334:THR:HG23	2.21	0.41
46:NN:54:ALA:HA	46:ON:283:ALA:HB2	2.01	0.41
46:OB:309:ARG:NH2	46:OB:342:VAL:HG23	2.35	0.41
45:OC:223:THR:HG23	45:OC:225:THR:H	1.85	0.41
45:OE:224:TYR:CD1	47:OF:501:GTP:C6	3.07	0.41
45:OE:414:GLU:CD	45:OE:416:GLY:H	2.24	0.41
45:OG:219:ILE:HG22	45:OG:222:PRO:HD3	2.02	0.41
45:OI:287:SER:HB3	45:OI:290:GLU:OE1	2.20	0.41
46:OJ:287:PRO:HA	46:OJ:290:THR:HG22	2.02	0.41
45:PA:260:VAL:HG13	45:PA:265:ILE:O	2.20	0.41
45:PA:377:MET:HE3	45:PA:378:ILE:N	2.35	0.41
45:PC:119:LEU:HD13	45:PC:156:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PE:287:SER:N	45:PE:290:GLU:OE2	2.31	0.41
45:PG:145:THR:HG22	47:PG:501:GTP:PG	2.60	0.41
45:PG:221:ARG:HA	46:PH:324:LYS:HZ1	1.84	0.41
46:PH:392:LYS:HA	46:PH:395:LEU:HD12	2.01	0.41
45:PM:33:ASP:OD2	45:PM:34:GLY:N	2.53	0.41
46:PN:20:PHE:HA	46:PN:230:SER:HB2	2.01	0.41
45:QA:68:LEU:HD21	45:QA:118:CYS:SG	2.61	0.41
46:QB:21:TRP:HH2	46:QB:50:TYR:HB3	1.85	0.41
46:QB:22:GLU:HG3	46:QB:81:PHE:CD2	2.55	0.41
46:QB:152:ILE:HG12	46:QB:164:MET:HE3	2.02	0.41
46:QH:22:GLU:HG2	46:QH:81:PHE:CD1	2.55	0.41
45:QI:66:VAL:HG21	45:QI:122:ILE:HD11	2.02	0.41
45:QI:119:LEU:HG	45:QI:156:ARG:NE	2.25	0.41
46:QJ:83:GLN:OE1	46:QJ:83:GLN:N	2.41	0.41
45:QK:430:LYS:O	45:QK:433:GLU:HG3	2.20	0.41
45:QM:55:GLU:OE1	45:QM:61:HIS:NE2	2.52	0.41
45:RA:19:ALA:HA	45:RA:22:GLU:OE1	2.19	0.41
45:RA:71:GLU:HA	45:RA:72:PRO:HD3	1.91	0.41
45:RA:203:MET:HG3	45:RA:384:ILE:HD11	2.01	0.41
45:RC:20:CYS:HA	45:RC:232:ALA:HB1	2.02	0.41
45:RC:430:LYS:O	45:RC:434:GLU:HG2	2.20	0.41
46:RD:303:ALA:HA	46:RD:376:GLU:OE2	2.20	0.41
46:RF:253:LEU:HD12	46:RF:257:LEU:HD13	2.01	0.41
46:RH:318:ARG:HG2	46:RH:354:CYS:SG	2.60	0.41
45:RI:185:TYR:O	45:RI:189:LEU:HD13	2.20	0.41
46:RL:114:ASP:N	46:RL:114:ASP:OD1	2.51	0.41
46:RL:321:MET:HE2	46:RL:363:MET:HG3	2.01	0.41
46:RL:378:PHE:HA	46:RL:381:VAL:HG12	2.01	0.41
45:RM:211:ASP:HA	45:RM:214:ARG:NH1	2.35	0.41
46:RN:10:GLY:O	46:RN:14:ASN:ND2	2.53	0.41
46:SD:292:GLN:OE1	46:SD:298:ASN:ND2	2.53	0.41
46:SD:380:ARG:HA	46:SD:383:GLU:CD	2.40	0.41
46:SF:16:ILE:HD11	49:SF:501:GDP:HN21	1.84	0.41
46:SF:238:CYS:SG	46:SF:239:CYS:N	2.93	0.41
46:SF:393:ALA:HB1	46:SF:394:PHE:CD1	2.55	0.41
45:SI:171:ILE:HA	45:SI:204:LEU:HB2	2.02	0.41
46:SJ:293:MET:HE1	46:SJ:367:PHE:HB3	2.02	0.41
45:SK:102:ASN:ND2	45:SK:411:GLU:OE2	2.34	0.41
46:SL:150:LEU:O	46:SL:154:LYS:HG2	2.19	0.41
46:SL:169:VAL:HG22	46:SL:202:ILE:HB	2.01	0.41
46:SL:303:ALA:HA	46:SL:376:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SL:318:ARG:HG2	46:SL:357:PRO:HA	2.00	0.41
45:TA:210:TYR:CE1	45:TA:227:LEU:HD11	2.55	0.41
46:TB:238:CYS:O	46:TB:241:ARG:NH1	2.53	0.41
46:TB:294:PHE:CE1	46:TB:333:VAL:HG21	2.55	0.41
45:TC:82:THR:HG23	45:TC:83:TYR:CD1	2.55	0.41
45:TC:119:LEU:O	45:TC:123:ARG:HG2	2.19	0.41
45:TC:331:SER:O	45:TC:335:ILE:HG12	2.20	0.41
46:TD:371:SER:O	46:TD:422:TYR:OH	2.22	0.41
45:TE:152:LEU:HA	45:TE:155:GLU:OE2	2.20	0.41
45:TE:171:ILE:HG23	45:TE:204:LEU:O	2.20	0.41
46:TF:139:LEU:HD22	46:TF:170:VAL:HG12	2.01	0.41
45:TG:102:ASN:OD1	45:TG:105:ARG:N	2.50	0.41
45:TG:205:ASP:OD1	45:TG:303:ALA:HA	2.20	0.41
45:TI:419:SER:O	45:TI:422:ARG:HB2	2.20	0.41
46:TJ:230:SER:HA	46:TJ:233:MET:HE3	2.01	0.41
46:TJ:359:LYS:HA	46:TJ:359:LYS:HD3	1.88	0.41
45:TK:174:SER:OG	45:TK:207:GLU:HB2	2.20	0.41
46:TL:113:ILE:CG2	46:TL:154:LYS:HZ3	2.33	0.41
45:TM:75:ILE:HG23	45:TM:92:LEU:HB3	2.01	0.41
46:TN:293:MET:HE1	46:TN:365:VAL:HG11	2.01	0.41
45:UA:260:VAL:HG13	45:UA:265:ILE:O	2.19	0.41
46:UB:200:MET:HG2	46:UB:268:ILE:HD11	2.02	0.41
46:UB:260:PHE:HE2	45:UC:403:ALA:HA	1.85	0.41
46:UB:324:LYS:O	46:UB:327:ASP:OD1	2.38	0.41
45:UC:2:ARG:HG3	45:UC:133:GLN:NE2	2.33	0.41
45:UC:268:MET:N	45:UC:268:MET:SD	2.93	0.41
45:UE:141:VAL:HG11	45:UE:172:TYR:CD2	2.55	0.41
46:UF:251:ARG:HD3	45:UG:105:ARG:NH1	2.35	0.41
46:UH:234:SER:O	46:UH:241:ARG:NH2	2.53	0.41
46:UH:237:THR:HG22	46:UH:250:LEU:HD21	2.01	0.41
45:UI:88:HIS:HE1	45:UI:90:GLU:HG2	1.81	0.41
45:UI:257:THR:HG21	46:UJ:98:GLY:O	2.20	0.41
45:UI:395:PHE:HZ	45:UI:418:PHE:HB3	1.85	0.41
46:UJ:108:GLU:HA	46:UJ:111:GLU:OE2	2.21	0.41
45:UK:287:SER:O	45:UK:291:ILE:HG13	2.20	0.41
45:UK:326:LYS:HE3	46:UL:220:PRO:HD2	2.02	0.41
45:UK:329:ASN:O	45:UK:332:ILE:HG22	2.19	0.41
46:UL:2:ARG:NH2	46:UL:240:LEU:O	2.53	0.41
46:UL:86:ARG:HG3	46:UL:88:ASP:N	2.35	0.41
46:UN:210:ILE:HD11	46:UN:299:MET:O	2.19	0.41
45:VA:5:ILE:HD11	45:VA:135:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VA:18:ASN:O	45:VA:22:GLU:OE1	2.37	0.41
45:VC:89:PRO:HD2	45:WC:280:LYS:HD3	2.02	0.41
46:VD:109:GLY:HA2	46:VD:147:MET:CE	2.50	0.41
45:VE:56:THR:HG23	45:VE:58:ALA:H	1.85	0.41
45:VE:88:HIS:CE1	45:VE:90:GLU:HB3	2.55	0.41
45:VE:433:GLU:O	45:VE:437:ILE:HG12	2.20	0.41
45:VG:150:GLY:O	45:VG:154:LEU:HD23	2.20	0.41
45:VG:280:LYS:HG3	45:VG:280:LYS:O	2.20	0.41
45:VG:318:MET:HB3	45:VG:376:CYS:SG	2.60	0.41
45:VG:329:ASN:HA	45:VG:332:ILE:HG22	2.02	0.41
45:VG:384:ILE:O	45:VG:387:VAL:HG22	2.20	0.41
46:VJ:222:TYR:CD1	49:VJ:501:GDP:C6	3.07	0.41
45:VK:183:GLU:N	45:VK:183:GLU:OE1	2.35	0.41
46:VL:175:VAL:HG23	46:VL:175:VAL:O	2.20	0.41
46:VL:395:LEU:O	46:VL:399:THR:HG23	2.20	0.41
45:VM:60:LYS:HD3	45:WM:283:HIS:CG	2.54	0.41
45:VM:223:THR:HG23	45:VM:225:THR:H	1.85	0.41
46:VN:294:PHE:CE1	46:VN:333:VAL:HG21	2.55	0.41
45:WC:18:ASN:O	45:WC:22:GLU:OE1	2.38	0.41
45:WC:307:PRO:HD2	45:WC:308:ARG:HH12	1.85	0.41
45:WC:430:LYS:HA	45:WC:433:GLU:OE2	2.20	0.41
46:WD:317:PHE:CD2	46:WD:365:VAL:HG22	2.55	0.41
46:WD:344:TRP:HB3	46:WD:430:ALA:HB2	2.02	0.41
46:WF:167:PHE:CE2	46:WF:200:MET:HG3	2.55	0.41
45:WG:73:THR:O	45:WG:77:GLU:OE1	2.37	0.41
45:WM:75:ILE:HG22	45:WM:79:ARG:NH1	2.35	0.41
45:DC:103:PHE:H	45:DC:408:TYR:HE1	1.66	0.41
45:DC:226:ASN:ND2	45:DC:367:ASP:OD2	2.53	0.41
45:DC:411:GLU:OE1	45:DC:411:GLU:N	2.52	0.41
19:1J:122:ARG:NH1	45:IE:217:LEU:O	2.53	0.41
21:1L:45:ARG:HB3	46:BJ:362:LYS:HE2	2.01	0.41
23:1O:177:LYS:HD2	46:UD:362:LYS:NZ	2.34	0.41
25:1R:400:PRO:HB2	46:ED:218:THR:CG2	2.50	0.41
26:1W:106:PHE:HD2	46:LF:362:LYS:HZ1	1.66	0.41
31:2I:98:ILE:HG12	46:GF:337:ASN:ND2	2.35	0.41
20:2K:437:MET:SD	45:GE:279:GLU:HA	2.60	0.41
23:3O:406:ARG:NH1	46:UH:276:ARG:NH1	2.68	0.41
34:4R:246:GLN:HG3	45:BE:58:ALA:HB1	2.02	0.41
35:4S:187:LEU:O	35:4S:190:MET:HG2	2.20	0.41
36:5A:49:LYS:HB3	36:5A:49:LYS:HE2	1.68	0.41
36:5C:47:SER:O	36:5C:49:LYS:HD3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5C:129:GLY:HA2	46:NL:361:LEU:HD22	2.02	0.41
37:5E:96:TYR:O	37:5E:100:VAL:HG22	2.20	0.41
37:5G:201:THR:HA	37:5G:204:LYS:HE3	2.01	0.41
34:5R:478:ASN:ND2	34:5R:479:PRO:HD2	2.35	0.41
35:5S:211:ASN:HB3	35:5S:217:LEU:HD11	2.01	0.41
40:6G:137:GLN:HB2	45:VG:338:LYS:NZ	2.35	0.41
40:6G:144:LYS:HA	40:6G:144:LYS:HD2	1.90	0.41
40:6G:245:SER:OG	40:6G:248:LYS:HD2	2.20	0.41
41:6H:348:ASN:HA	45:FI:82:THR:HG21	2.01	0.41
34:6R:242:ASN:O	45:BM:58:ALA:HB2	2.20	0.41
34:7R:78:ILE:HD12	34:7R:78:ILE:H	1.86	0.41
34:7R:553:ILE:HA	34:7R:556:ILE:HG22	2.01	0.41
45:AA:398:MET:CE	46:AB:346:PRO:HD2	2.49	0.41
46:AB:229:VAL:HG12	46:AB:233:MET:CE	2.50	0.41
45:AC:167:LEU:HG	45:AC:200:VAL:HB	2.01	0.41
45:AC:384:ILE:O	45:AC:387:VAL:HG22	2.20	0.41
46:AD:131:GLN:O	46:AD:163:ILE:HG12	2.20	0.41
45:AE:164:LYS:HA	45:AE:164:LYS:HD3	1.78	0.41
45:AG:407:TRP:HH2	46:AH:254:ALA:HB1	1.85	0.41
46:AH:73:MET:CE	46:AH:92:PHE:HB3	2.50	0.41
45:AI:176:GLN:NE2	45:AI:177:VAL:HG23	2.35	0.41
45:AI:377:MET:SD	45:AI:379:SER:HB3	2.61	0.41
46:AL:289:LEU:HD23	46:AL:289:LEU:HA	1.79	0.41
45:AM:56:THR:HG21	45:AM:60:LYS:HG2	2.03	0.41
45:BA:430:LYS:O	45:BA:433:GLU:HG2	2.20	0.41
46:BB:6:HIS:O	46:BB:63:ALA:HA	2.20	0.41
46:BB:238:CYS:SG	46:BB:318:ARG:HD3	2.60	0.41
45:BE:262:TYR:OH	46:BH:391:ARG:O	2.30	0.41
45:BG:222:PRO:C	46:BH:324:LYS:HZ3	2.23	0.41
46:BH:20:PHE:O	46:BH:24:ILE:HG12	2.19	0.41
45:BI:205:ASP:CG	45:BI:304:LYS:H	2.23	0.41
46:BJ:215:LEU:HD21	46:BJ:273:LEU:HD12	2.02	0.41
46:BL:16:ILE:HD13	46:BL:226:ASN:OD1	2.20	0.41
46:BL:274:THR:HB	46:BL:282:ARG:HH11	1.83	0.41
45:BM:100:ALA:HA	46:BN:252:LYS:CG	2.50	0.41
45:BM:243:ARG:HG3	45:BM:244:PHE:CD2	2.55	0.41
45:BM:319:TYR:HE1	45:BM:328:VAL:HG13	1.84	0.41
46:BN:186:THR:HA	46:BN:189:VAL:HG12	2.02	0.41
46:BN:201:VAL:HG23	46:BN:301:CYS:SG	2.60	0.41
46:CB:238:CYS:SG	46:CB:318:ARG:HD2	2.60	0.41
46:CB:285:THR:OG1	46:CB:287:PRO:HD2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CD:141:GLY:HA3	49:CD:501:GDP:PB	2.60	0.41
46:CD:345:ILE:HG13	45:CE:398:MET:SD	2.60	0.41
46:CF:201:VAL:HG22	46:CF:266:PHE:O	2.20	0.41
46:CH:8:GLN:HE22	46:CH:17:GLY:HA3	1.84	0.41
45:CI:121:ARG:NH1	45:CI:124:LYS:HG3	2.35	0.41
46:CL:232:ALA:HB1	46:CL:268:ILE:HD12	2.02	0.41
45:CM:174:SER:HB3	45:CM:207:GLU:OE2	2.20	0.41
45:CM:207:GLU:CD	45:CM:304:LYS:HZ2	2.23	0.41
46:CN:69:GLU:HA	46:CN:70:PRO:HD3	1.88	0.41
46:CN:273:LEU:O	46:CN:292:GLN:NE2	2.44	0.41
46:DB:391:ARG:HA	46:DB:391:ARG:HD2	1.80	0.41
45:DE:71:GLU:HA	45:DE:72:PRO:HD3	1.90	0.41
45:DI:37:PRO:O	45:DI:38:SER:OG	2.25	0.41
45:DI:288:VAL:O	45:DI:291:ILE:HG22	2.20	0.41
45:DI:387:VAL:HG12	45:DI:390:ARG:HH22	1.84	0.41
45:DK:101:ASN:HA	45:DK:144:GLY:H	1.84	0.41
45:DK:169:PHE:CD1	45:DK:202:VAL:HB	2.55	0.41
45:EA:319:TYR:CE2	45:EA:328:VAL:HG22	2.55	0.41
45:EC:97:GLU:O	45:EC:110:ILE:HD12	2.20	0.41
45:EC:137:VAL:HG12	45:EC:167:LEU:O	2.20	0.41
45:EC:269:LEU:HB2	45:EC:301:MET:HE1	2.01	0.41
45:EE:194:LEU:O	45:EE:198:THR:HG22	2.19	0.41
45:EE:233:GLN:HE21	45:EE:233:GLN:HB3	1.74	0.41
45:EE:278:ALA:HA	45:EE:281:ALA:HB3	2.01	0.41
46:EH:175:VAL:O	46:EH:175:VAL:HG23	2.20	0.41
45:EI:206:ASN:OD1	47:EI:501:GTP:N2	2.51	0.41
45:EI:277:SER:O	45:EI:281:ALA:N	2.53	0.41
46:EJ:258:ILE:HG13	46:EJ:258:ILE:O	2.20	0.41
45:EK:287:SER:O	45:EK:291:ILE:HG23	2.20	0.41
45:EK:311:LYS:HE3	45:EK:342:GLN:HG3	2.02	0.41
46:EL:16:ILE:HD13	46:EL:226:ASN:OD1	2.19	0.41
46:EL:271:ALA:HB1	46:EL:272:PRO:HA	2.01	0.41
45:EM:107:HIS:ND1	45:EM:107:HIS:O	2.53	0.41
45:EM:260:VAL:HG13	45:EM:265:ILE:O	2.20	0.41
45:EM:331:SER:O	45:EM:335:ILE:HG12	2.20	0.41
46:EN:274:THR:HB	46:EN:282:ARG:NH1	2.35	0.41
45:FC:208:ALA:O	45:FC:212:ILE:HG12	2.20	0.41
46:FF:310:TYR:HB2	46:FF:341:PHE:CD2	2.55	0.41
45:FI:74:VAL:HA	45:FI:77:GLU:OE1	2.20	0.41
46:FJ:8:GLN:HE21	46:FJ:14:ASN:HA	1.85	0.41
45:FK:21:TRP:HZ2	45:FK:65:ALA:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:FK:141:VAL:HG21	45:FK:172:TYR:HD1	1.85	0.41
45:FK:217:LEU:HD22	45:FK:367:ASP:HB3	2.02	0.41
45:FK:326:LYS:HE2	46:FN:212:PHE:HZ	1.85	0.41
45:FM:274:PRO:HG3	45:FM:286:LEU:HD12	2.02	0.41
46:FN:49:VAL:HG21	46:FN:241:ARG:HG2	2.01	0.41
46:FN:262:ARG:NH1	46:FN:421:GLU:OE1	2.54	0.41
45:GA:102:ASN:HB3	45:GA:105:ARG:HE	1.85	0.41
46:GB:36:TYR:HB2	46:GB:59:TYR:CE1	2.55	0.41
46:GD:20:PHE:HA	46:GD:230:SER:HB2	2.02	0.41
46:GD:114:ASP:N	46:GD:114:ASP:OD1	2.52	0.41
46:GD:295:ASP:OD1	46:GD:297:LYS:HG2	2.19	0.41
46:GH:268:ILE:O	46:GH:300:MET:HB2	2.20	0.41
45:GI:220:GLU:HG2	45:GI:221:ARG:HG2	2.02	0.41
46:GJ:60:VAL:HG21	46:HJ:281:TYR:OH	2.20	0.41
46:GL:274:THR:HG21	46:GL:279:GLN:HA	2.02	0.41
45:GM:67:PHE:HB2	45:GM:92:LEU:HG	2.01	0.41
45:GM:88:HIS:O	45:GM:91:GLN:HG2	2.20	0.41
45:GM:212:ILE:HD11	45:GM:300:ASN:HA	2.02	0.41
46:GN:11:GLN:O	46:GN:15:GLN:HG2	2.20	0.41
46:GN:91:VAL:HG21	46:GN:116:VAL:HB	2.01	0.41
45:HA:156:ARG:HD3	45:HA:156:ARG:HA	1.92	0.41
45:HA:268:MET:HE1	45:HA:378:ILE:HG22	2.02	0.41
45:HA:326:LYS:HD2	46:HD:208:TYR:CD1	2.54	0.41
45:HA:352:LYS:NZ	46:HD:178:THR:HG23	2.35	0.41
45:HC:107:HIS:ND1	45:HC:107:HIS:O	2.53	0.41
45:HC:434:GLU:O	45:HC:437:ILE:HG12	2.20	0.41
45:HE:226:ASN:ND2	45:HE:367:ASP:OD2	2.53	0.41
45:HE:235:ILE:O	45:HE:239:THR:HG22	2.21	0.41
46:HF:34:GLY:O	46:HF:58:ARG:HA	2.20	0.41
45:HG:201:ALA:HB3	45:HG:267:PHE:HD1	1.85	0.41
46:HJ:105:HIS:CD2	46:HJ:150:LEU:HB2	2.55	0.41
46:HJ:345:ILE:HG23	46:HJ:345:ILE:O	2.20	0.41
46:HN:322:SER:O	46:HN:325:GLU:HG3	2.20	0.41
45:IA:117:LEU:O	45:IA:121:ARG:HG2	2.21	0.41
46:IB:21:TRP:CH2	46:IB:50:TYR:HB3	2.54	0.41
45:IC:88:HIS:CE1	45:IC:90:GLU:HG3	2.55	0.41
46:ID:114:ASP:O	46:ID:117:LEU:HG	2.19	0.41
46:ID:318:ARG:CZ	46:ID:358:PRO:HG3	2.50	0.41
45:IE:377:MET:SD	45:IE:379:SER:HB3	2.61	0.41
46:IF:271:ALA:HB3	46:IF:365:VAL:HB	2.02	0.41
45:IG:171:ILE:HG23	45:IG:204:LEU:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IG:200:VAL:HG13	45:IG:268:MET:CE	2.50	0.41
46:IH:290:THR:O	46:IH:293:MET:HG2	2.20	0.41
46:IJ:69:GLU:HA	46:IJ:70:PRO:HD3	1.88	0.41
46:IJ:122:LYS:HE3	46:IJ:122:LYS:HB2	1.77	0.41
46:IL:97:ALA:HA	46:IL:103:LYS:HE2	2.01	0.41
45:JA:71:GLU:HA	45:JA:72:PRO:HD3	1.88	0.41
46:JB:9:GLY:HA2	46:JB:66:MET:O	2.20	0.41
45:JC:430:LYS:HE2	45:JC:430:LYS:HB2	1.82	0.41
46:JD:149:THR:HA	46:JD:152:ILE:HD12	2.02	0.41
45:JE:296:PHE:HE2	45:JE:335:ILE:HG21	1.84	0.41
45:JI:28:HIS:NE2	45:JI:48:ALA:O	2.50	0.41
45:JI:149:LEU:O	45:JI:153:LEU:HD23	2.20	0.41
45:JK:117:LEU:O	45:JK:121:ARG:HG2	2.19	0.41
46:JL:330:MET:HB3	46:JL:349:ILE:HD12	2.02	0.41
46:JN:389:PHE:CE1	46:JN:395:LEU:HD21	2.55	0.41
45:KA:154:LEU:HD13	45:KA:197:HIS:HB2	2.02	0.41
46:KB:134:GLN:HA	46:KB:165:GLU:O	2.21	0.41
45:KE:223:THR:OG1	45:KE:224:TYR:N	2.53	0.41
45:KE:324:VAL:HG23	45:KE:327:ASP:HB2	2.02	0.41
45:KE:329:ASN:HA	45:KE:332:ILE:HG12	2.01	0.41
45:KM:93:ILE:HG22	45:KM:114:ILE:HD11	2.02	0.41
46:KN:6:HIS:HE1	46:KN:8:GLN:HB3	1.85	0.41
46:KN:66:MET:HA	46:KN:91:VAL:HG23	2.02	0.41
45:LA:71:GLU:HA	45:LA:72:PRO:HD3	1.88	0.41
45:LA:217:LEU:HB3	45:LA:219:ILE:HG13	2.02	0.41
45:LI:221:ARG:HG3	45:LI:221:ARG:NH1	2.35	0.41
45:LK:222:PRO:HG2	46:LL:324:LYS:HE2	2.03	0.41
46:LL:221:THR:HG23	46:LL:224:ASP:H	1.85	0.41
46:LN:6:HIS:HD2	46:LN:7:ILE:N	2.18	0.41
46:LN:276:ARG:HG3	46:LN:276:ARG:HH11	1.85	0.41
45:MA:356:ASN:OD1	45:MA:357:TYR:N	2.53	0.41
46:MB:178:THR:HG22	46:MB:179:VAL:H	1.84	0.41
46:MD:110:ALA:O	46:MD:113:ILE:HG22	2.20	0.41
46:MF:372:THR:HA	46:MF:422:TYR:CE2	2.55	0.41
45:MI:178:SER:OG	46:MJ:347:ASN:HB3	2.20	0.41
46:MJ:345:ILE:HG23	46:MJ:345:ILE:O	2.20	0.41
45:NA:330:ALA:O	45:NA:334:THR:HG23	2.20	0.41
46:NB:64:ILE:HA	46:NB:89:ASN:HB3	2.00	0.41
45:NC:258:ASN:OD1	45:NC:352:LYS:HE3	2.19	0.41
46:ND:178:THR:HG22	46:ND:180:VAL:N	2.32	0.41
45:NE:398:MET:SD	46:NF:345:ILE:HD12	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NG:287:SER:O	45:NG:291:ILE:HG12	2.20	0.41
46:NH:385:PHE:HE2	46:NH:412:GLU:HB3	1.85	0.41
45:NI:54:SER:HB3	45:NI:64:ARG:NH1	2.35	0.41
45:NI:285:GLN:N	45:NI:285:GLN:OE1	2.52	0.41
46:NJ:97:ALA:HB3	46:NJ:143:THR:HB	2.02	0.41
45:NK:288:VAL:HA	45:NK:291:ILE:HG12	2.01	0.41
45:NM:176:GLN:OE1	45:NM:304:LYS:NZ	2.52	0.41
46:NN:113:ILE:O	46:NN:117:LEU:HG	2.20	0.41
45:OA:174:SER:HB2	45:OA:177:VAL:O	2.20	0.41
45:OA:199:ASP:OD1	45:OA:256:GLN:HG3	2.20	0.41
46:OB:109:GLY:O	46:OB:113:ILE:HB	2.19	0.41
46:OD:11:GLN:O	46:OD:15:GLN:HG2	2.19	0.41
45:OE:102:ASN:OD1	45:OE:105:ARG:N	2.48	0.41
45:OE:371:VAL:HG12	45:OE:373:ARG:H	1.85	0.41
45:OG:9:VAL:HA	45:OG:68:LEU:O	2.20	0.41
46:OH:117:LEU:HA	46:OH:120:VAL:HG12	2.01	0.41
46:OH:249:ASP:O	46:OH:253:LEU:HG	2.20	0.41
46:OH:359:LYS:HD2	46:OH:360:GLY:N	2.34	0.41
45:OK:248:LEU:HB2	45:OK:355:ILE:H	1.85	0.41
45:OM:402:ARG:HA	45:OM:402:ARG:HD3	1.91	0.41
45:PC:119:LEU:HD12	45:PC:156:ARG:HG2	2.02	0.41
46:PD:201:VAL:HG12	46:PD:266:PHE:O	2.19	0.41
46:PF:240:LEU:HD12	46:PF:249:ASP:HB2	2.01	0.41
45:PG:182:VAL:HG22	45:PG:404:PHE:CE2	2.54	0.41
45:PI:222:PRO:HG2	46:PJ:324:LYS:HG2	2.01	0.41
45:PI:226:ASN:O	45:PI:230:LEU:HD23	2.20	0.41
46:PJ:148:GLY:O	46:PJ:152:ILE:HG13	2.19	0.41
45:PK:56:THR:HG23	45:PK:58:ALA:H	1.84	0.41
45:PK:319:TYR:CB	45:PK:323:VAL:HG11	2.50	0.41
46:PL:87:PRO:HA	46:PL:90:PHE:CD2	2.55	0.41
46:PL:185:ALA:O	46:PL:189:VAL:HG12	2.19	0.41
46:PL:203:ASP:HB3	46:PL:205:GLU:CD	2.41	0.41
46:PN:5:VAL:HG23	46:PN:7:ILE:HD11	2.02	0.41
46:PN:119:VAL:HA	46:PN:122:LYS:HG2	2.02	0.41
46:PN:194:GLU:HG3	46:PN:262:ARG:NH2	2.34	0.41
46:PN:282:ARG:HB3	46:PN:282:ARG:CZ	2.50	0.41
45:QA:352:LYS:HE2	45:QA:352:LYS:HB2	1.86	0.41
46:QB:105:HIS:NE2	46:QB:150:LEU:HB3	2.34	0.41
46:QB:153:SER:O	46:QB:157:GLU:OE1	2.37	0.41
46:QD:262:ARG:HG3	46:QD:263:LEU:HD12	2.01	0.41
46:QD:318:ARG:O	46:QD:363:MET:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QE:356:ASN:OD1	45:QE:357:TYR:N	2.53	0.41
46:QF:226:ASN:HD21	49:QF:501:GDP:HN1	1.68	0.41
45:QG:293:ASN:O	45:QG:297:GLU:HG2	2.20	0.41
45:QK:258:ASN:CB	45:QK:352:LYS:HD2	2.44	0.41
46:QL:113:ILE:HD11	46:QL:151:LEU:HD12	2.01	0.41
45:QM:254:GLU:HG2	46:QN:98:GLY:HA2	2.00	0.41
46:RB:3:GLU:HG3	46:RB:62:ARG:HH12	1.85	0.41
46:RD:240:LEU:HD11	46:RD:249:ASP:HA	2.03	0.41
46:RD:387:ALA:O	46:RD:390:ARG:NH2	2.53	0.41
45:RE:226:ASN:HA	45:RE:229:ARG:NH1	2.35	0.41
45:RG:81:GLY:O	45:RG:84:ARG:HG3	2.19	0.41
45:RG:261:PRO:HB2	45:RG:265:ILE:HD11	2.02	0.41
45:RG:324:VAL:HG11	45:RG:326:LYS:HZ3	1.85	0.41
46:RJ:11:GLN:HB3	46:RJ:72:THR:HG21	2.02	0.41
45:RK:5:ILE:HB	45:RK:135:PHE:HD2	1.83	0.41
45:RK:317:MET:HA	45:RK:376:CYS:O	2.20	0.41
46:RL:3:GLU:HG3	46:RL:62:ARG:NH1	2.34	0.41
46:RL:327:ASP:O	46:RL:330:MET:HG2	2.21	0.41
45:SA:19:ALA:HA	45:SA:22:GLU:OE1	2.19	0.41
45:SA:252:ILE:HA	45:SA:255:PHE:CE2	2.55	0.41
45:SA:328:VAL:HG11	45:SA:353:VAL:HG21	2.01	0.41
46:SB:45:GLU:OE1	46:SB:46:ARG:HG2	2.20	0.41
46:SB:305:PRO:HB2	46:SB:310:TYR:CE2	2.55	0.41
45:SC:5:ILE:HB	45:SC:135:PHE:CD1	2.55	0.41
46:SD:251:ARG:O	46:SD:255:VAL:HG12	2.20	0.41
45:SG:9:VAL:HG23	45:SG:139:ASN:HB3	2.00	0.41
45:SG:68:LEU:HD21	45:SG:118:CYS:SG	2.60	0.41
46:SH:255:VAL:HA	45:SI:407:TRP:CH2	2.55	0.41
45:SI:413:MET:HG2	45:SI:417:GLU:HG3	2.02	0.41
46:SJ:200:MET:SD	46:SJ:268:ILE:HG23	2.60	0.41
45:SK:54:SER:OG	45:SK:62:VAL:HB	2.20	0.41
45:SK:203:MET:HE1	45:SK:268:MET:N	2.36	0.41
46:SL:278:SER:HA	46:SL:281:TYR:HB2	2.01	0.41
45:SM:419:SER:O	45:SM:422:ARG:N	2.54	0.41
45:TA:141:VAL:HG12	45:TA:171:ILE:O	2.20	0.41
45:TA:268:MET:HB2	45:TA:379:SER:O	2.20	0.41
46:TF:208:TYR:CE1	46:TF:225:LEU:HD11	2.55	0.41
45:TG:120:ASP:C	45:TG:124:LYS:HZ2	2.23	0.41
45:TI:35:GLN:NE2	45:TI:60:LYS:HB3	2.35	0.41
45:TI:101:ASN:HD22	45:TI:143:GLY:HA2	1.84	0.41
45:TI:288:VAL:HB	45:TI:373:ARG:NH2	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TL:350:LYS:HG3	45:TM:180:ALA:HA	2.02	0.41
46:TL:362:LYS:HD3	46:TL:362:LYS:N	2.36	0.41
46:TN:312:THR:HG22	46:TN:370:ASN:HB3	2.01	0.41
45:UA:172:TYR:HD2	45:UA:203:MET:HG3	1.84	0.41
45:UC:215:ARG:HG3	45:UC:216:ASN:OD1	2.19	0.41
45:UC:334:THR:O	45:UC:338:LYS:HG2	2.20	0.41
46:UD:377:MET:O	46:UD:381:VAL:HG22	2.19	0.41
45:UE:2:ARG:HD2	45:UE:242:LEU:O	2.20	0.41
45:UE:352:LYS:NZ	46:UF:179:VAL:H	2.18	0.41
45:UG:2:ARG:O	45:UG:51:THR:HA	2.21	0.41
45:UG:231:ILE:O	45:UG:235:ILE:HG12	2.20	0.41
46:UH:183:TYR:OH	46:UH:388:MET:HB3	2.20	0.41
46:UH:361:LEU:HD23	46:UH:361:LEU:HA	1.90	0.41
45:UI:141:VAL:HB	45:UI:170:THR:HG23	2.01	0.41
46:UN:7:ILE:HD12	46:UN:64:ILE:HB	2.02	0.41
46:UN:288:GLU:O	46:UN:292:GLN:HG2	2.20	0.41
45:VA:209:ILE:HG12	45:VA:302:MET:CE	2.50	0.41
45:VA:260:VAL:HG13	45:VA:260:VAL:O	2.20	0.41
46:VD:210:ILE:HD11	46:VD:299:MET:O	2.20	0.41
45:VE:71:GLU:HA	45:VE:72:PRO:HD3	1.91	0.41
46:VF:4:ILE:HG23	46:VF:131:GLN:HB3	2.01	0.41
45:VG:387:VAL:O	45:VG:391:LEU:HD23	2.19	0.41
46:VH:217:LEU:HD23	46:VH:217:LEU:H	1.83	0.41
45:VI:221:ARG:CZ	46:VJ:322:SER:H	2.33	0.41
46:VJ:208:TYR:HE1	46:VJ:225:LEU:HD11	1.85	0.41
45:VK:178:SER:HB3	46:VL:347:ASN:HD21	1.84	0.41
45:VK:358:GLN:NE2	45:VK:359:PRO:HD2	2.36	0.41
46:VN:392:LYS:N	46:VN:392:LYS:HD3	2.35	0.41
46:WB:44:LEU:HD23	46:WB:44:LEU:HA	1.91	0.41
45:WC:334:THR:HG22	45:WC:338:LYS:NZ	2.35	0.41
46:WD:24:ILE:HD13	46:WD:27:GLU:OE1	2.20	0.41
45:WG:384:ILE:O	45:WG:387:VAL:HG22	2.19	0.41
46:WH:296:ALA:O	46:WH:299:MET:HG2	2.21	0.41
46:WH:396:HIS:NE2	46:WH:397:TRP:CD1	2.88	0.41
46:WJ:172:SER:HA	46:WJ:380:ARG:NH1	2.35	0.41
45:WK:326:LYS:CE	46:WN:220:PRO:HB2	2.49	0.41
46:WL:391:ARG:HA	46:WL:391:ARG:HD2	1.77	0.41
45:WM:21:TRP:CD1	45:WM:67:PHE:HZ	2.38	0.41
46:WN:22:GLU:HG2	46:WN:81:PHE:CD1	2.55	0.41
4:OD:6:ARG:HH12	46:CB:45:GLU:N	2.16	0.41
13:OU:236:LEU:HB2	46:WB:33:THR:HG22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:138:TRP:NE1	45:AE:77:GLU:OE2	2.53	0.41
20:1K:186:LEU:HB3	46:GD:362:LYS:NZ	2.23	0.41
23:1O:189:ILE:HD13	46:UD:276:ARG:NH2	2.36	0.41
24:1P:164:THR:HG21	45:TI:372:MET:SD	2.61	0.41
30:2H:168:LYS:NZ	45:MA:57:GLY:HA2	2.35	0.41
31:2I:95:LYS:HG3	46:GF:332:ASN:OD1	2.20	0.41
31:2I:97:LYS:HD3	46:GF:337:ASN:OD1	2.20	0.41
20:2K:429:HIS:CE1	45:GE:282:TYR:CE2	3.08	0.41
21:2L:405:LYS:HB3	46:CN:320:ARG:NH1	2.34	0.41
23:2O:423:HIS:CE1	45:VA:372:MET:SD	3.13	0.41
34:4R:408:ALA:N	46:EF:218:THR:HG21	2.35	0.41
15:4X:93:ALA:HA	15:4X:96:ARG:HE	1.85	0.41
36:5B:102:TYR:HA	45:KE:393:HIS:CE1	2.55	0.41
37:5E:154:TYR:CE1	46:ND:35:THR:HG23	2.54	0.41
10:5Q:14:LEU:HD12	10:5Q:25:TRP:CE2	2.55	0.41
10:5Q:115:LYS:NZ	45:AK:264:ARG:HD3	2.35	0.41
40:6G:89:PHE:CE2	45:UK:89:PRO:HB2	2.55	0.41
41:6H:320:SER:HA	41:6H:323:TYR:HD1	1.84	0.41
10:6Q:94:LEU:HD13	10:6Q:100:ARG:HH22	1.84	0.41
34:6R:145:ILE:HG21	34:6R:150:ILE:HD11	2.01	0.41
45:AA:419:SER:O	45:AA:423:GLU:OE1	2.38	0.41
46:AB:137:HIS:NE2	46:AB:166:THR:OG1	2.54	0.41
46:AB:178:THR:HG22	46:AB:180:VAL:H	1.85	0.41
45:AE:17:GLY:HA2	45:AE:20:CYS:SG	2.60	0.41
45:AE:256:GLN:HB3	46:AH:397:TRP:CH2	2.56	0.41
45:AG:88:HIS:HB3	45:AG:91:GLN:HG2	2.02	0.41
45:AG:272:TYR:HD1	45:AG:275:ILE:HD11	1.86	0.41
46:AH:229:VAL:HG12	46:AH:233:MET:HE2	2.02	0.41
46:AJ:403:MET:HB2	46:AJ:407:GLU:OE2	2.20	0.41
46:AL:105:HIS:HD1	46:AL:106:TYR:HD1	1.68	0.41
46:AL:201:VAL:O	46:AL:202:ILE:HD13	2.20	0.41
45:AM:56:THR:HG23	45:AM:58:ALA:H	1.85	0.41
46:AN:47:ILE:CG2	46:AN:51:TYR:HB2	2.50	0.41
46:AN:317:PHE:CD1	46:AN:365:VAL:HG22	2.55	0.41
46:BB:69:GLU:HA	46:BB:70:PRO:HD3	1.86	0.41
46:BD:173:PRO:HD2	46:BD:174:LYS:HZ3	1.85	0.41
45:BE:210:TYR:HA	46:BF:324:LYS:NZ	2.35	0.41
46:BF:316:LEU:HB2	46:BF:366:THR:HG22	2.03	0.41
46:BF:345:ILE:O	46:BF:345:ILE:HG13	2.19	0.41
45:BG:414:GLU:OE1	45:BG:416:GLY:N	2.47	0.41
46:BH:230:SER:HA	46:BH:233:MET:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BL:4:ILE:HD11	46:BL:131:GLN:HG3	2.02	0.41
45:CA:136:LEU:HD21	45:CA:138:PHE:CZ	2.55	0.41
46:CB:164:MET:HG2	46:CB:196:ALA:HA	2.03	0.41
46:CB:392:LYS:HA	46:CB:395:LEU:HD13	2.01	0.41
45:CC:388:PHE:HD2	45:CC:428:LEU:HD22	1.84	0.41
46:CF:325:GLU:OE1	45:CG:221:ARG:CZ	2.69	0.41
45:CG:368:LEU:HD12	45:CG:368:LEU:HA	1.93	0.41
46:CH:330:MET:HB3	46:CH:349:ILE:CD1	2.45	0.41
45:CI:324:VAL:HG12	45:CI:326:LYS:HG2	2.02	0.41
45:CK:394:LYS:HE3	45:CK:394:LYS:HB2	1.90	0.41
45:DG:24:PHE:HA	45:DG:27:GLU:CD	2.41	0.41
46:DH:86:ARG:NH2	46:EH:281:TYR:O	2.52	0.41
45:DK:195:LEU:HD12	45:DK:267:PHE:HE1	1.86	0.41
45:DK:225:THR:HG22	45:DK:229:ARG:HE	1.85	0.41
46:DL:156:ARG:HD3	46:DL:164:MET:CE	2.50	0.41
46:DL:190:HIS:HD2	46:DL:411:ALA:HA	1.85	0.41
46:DL:346:PRO:HG2	45:DM:394:LYS:HZ2	1.84	0.41
45:DM:311:LYS:HB3	45:DM:311:LYS:HE3	1.86	0.41
46:EB:132:GLY:HA3	46:EB:163:ILE:HG13	2.01	0.41
46:ED:156:ARG:NH2	46:ED:160:PRO:O	2.53	0.41
46:EF:2:ARG:NH1	45:EG:71:GLU:HG2	2.35	0.41
45:EG:90:GLU:HG2	45:EG:121:ARG:CZ	2.50	0.41
46:EH:113:ILE:HA	46:EH:116:VAL:HG12	2.02	0.41
46:EH:181:GLU:HG2	46:EH:182:PRO:HD3	2.02	0.41
45:EK:259:LEU:HD23	45:EK:314:ALA:HB1	2.02	0.41
46:EN:232:ALA:HB1	46:EN:268:ILE:HD12	2.02	0.41
45:FC:98:ASP:OD2	45:FC:100:ALA:N	2.33	0.41
45:FE:323:VAL:HG13	45:FE:373:ARG:HG2	2.02	0.41
46:FF:60:VAL:HG21	46:FF:86:ARG:NE	2.35	0.41
46:FF:391:ARG:HD2	46:FF:391:ARG:HA	1.82	0.41
45:FG:179:THR:O	46:FH:350:LYS:HA	2.20	0.41
45:FI:171:ILE:HG22	45:FI:204:LEU:HB2	2.02	0.41
46:FL:201:VAL:HG12	46:FL:266:PHE:O	2.21	0.41
45:GA:221:ARG:HH21	46:GB:321:MET:HB3	1.84	0.41
45:GE:328:VAL:O	45:GE:332:ILE:HG12	2.20	0.41
45:GK:348:PRO:HD3	46:GN:388:MET:CE	2.50	0.41
46:GL:173:PRO:HG2	46:GL:380:ARG:HD3	2.01	0.41
46:GN:65:LEU:HD22	46:GN:90:PHE:CE1	2.55	0.41
46:GN:190:HIS:CE1	46:GN:411:ALA:HA	2.55	0.41
46:GN:274:THR:HB	46:GN:282:ARG:HH11	1.84	0.41
46:HB:145:SER:HB2	46:HB:188:SER:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HB:238:CYS:HA	46:HB:241:ARG:CZ	2.50	0.41
46:HD:8:GLN:OE1	46:HD:14:ASN:HA	2.21	0.41
46:HD:175:VAL:O	46:HD:175:VAL:HG13	2.20	0.41
45:HE:21:TRP:HZ2	45:HE:65:ALA:HB2	1.86	0.41
45:HE:100:ALA:HB1	46:HF:252:LYS:HA	2.02	0.41
46:HF:273:LEU:H	46:HF:292:GLN:HE22	1.67	0.41
46:HF:302:ALA:HB3	46:HF:377:MET:HE3	2.03	0.41
46:HF:391:ARG:HA	46:HF:391:ARG:HD2	1.78	0.41
46:HH:409:THR:O	46:HH:412:GLU:HG3	2.20	0.41
45:HI:32:PRO:HB3	45:HI:83:TYR:CD1	2.55	0.41
45:HI:88:HIS:HB3	45:HI:91:GLN:HG2	2.00	0.41
45:HI:220:GLU:CD	45:HI:220:GLU:H	2.24	0.41
45:HI:377:MET:HE2	45:HI:379:SER:HB3	2.02	0.41
45:HK:352:LYS:HA	45:HK:352:LYS:HD3	1.92	0.41
46:HL:68:LEU:HD21	46:HL:147:MET:HE1	2.02	0.41
46:HL:178:THR:N	46:HL:181:GLU:OE1	2.52	0.41
46:HN:16:ILE:HD13	46:HN:226:ASN:OD1	2.21	0.41
45:IA:70:LEU:HB3	45:IA:97:GLU:O	2.20	0.41
45:IA:316:SER:HB3	45:IA:378:ILE:CG2	2.50	0.41
46:IB:420:SER:O	46:IB:423:GLN:HG3	2.19	0.41
45:IC:284:GLU:N	45:IC:284:GLU:OE2	2.53	0.41
45:IE:221:ARG:O	45:IE:221:ARG:HG3	2.20	0.41
45:IE:320:ARG:HD2	45:IE:360:PRO:HG3	2.01	0.41
46:IF:105:HIS:CE1	46:IF:150:LEU:HD12	2.55	0.41
45:II:171:ILE:HG23	45:II:204:LEU:O	2.20	0.41
45:II:227:LEU:O	45:II:231:ILE:HG12	2.20	0.41
46:IL:68:LEU:HD21	46:IL:147:MET:CE	2.50	0.41
46:IL:210:ILE:HD11	46:IL:299:MET:O	2.21	0.41
45:IM:60:LYS:NZ	45:IM:62:VAL:HG22	2.35	0.41
45:IM:320:ARG:NH2	45:IM:359:PRO:O	2.54	0.41
45:IM:416:GLY:O	45:IM:419:SER:OG	2.28	0.41
46:IN:31:ASP:HB3	46:IN:37:HIS:CD2	2.55	0.41
46:JB:204:ASN:OD1	46:JB:205:GLU:N	2.54	0.41
46:JD:36:TYR:O	46:JD:37:HIS:ND1	2.53	0.41
46:JD:296:ALA:HB3	46:JD:297:LYS:HZ2	1.85	0.41
46:JF:395:LEU:O	46:JF:399:THR:HG23	2.19	0.41
46:JH:169:VAL:O	46:JH:169:VAL:HG23	2.19	0.41
46:JH:297:LYS:NZ	46:JH:306:ARG:HH12	2.18	0.41
45:JI:21:TRP:CH2	45:JI:63:PRO:HB3	2.55	0.41
45:JI:269:LEU:H	45:JI:269:LEU:HD23	1.85	0.41
45:JK:413:MET:HB2	45:JK:413:MET:HE2	1.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JL:133:PHE:HB2	46:JL:164:MET:SD	2.60	0.41
46:JL:343:GLU:OE1	46:JL:343:GLU:N	2.46	0.41
45:JM:330:ALA:O	45:JM:334:THR:HG23	2.20	0.41
46:JN:6:HIS:O	46:JN:63:ALA:HA	2.18	0.41
46:JN:7:ILE:HD11	46:JN:120:VAL:HG21	2.03	0.41
46:JN:188:SER:O	46:JN:192:LEU:HG	2.20	0.41
45:KA:352:LYS:HA	46:KD:177:ASP:O	2.20	0.41
45:KC:215:ARG:NH2	45:KC:299:ALA:O	2.51	0.41
46:KF:415:MET:O	46:KF:419:VAL:HG23	2.21	0.41
45:KG:317:MET:HE1	45:KG:377:MET:HG3	2.01	0.41
45:KG:328:VAL:O	45:KG:332:ILE:HG12	2.20	0.41
45:KI:96:LYS:HG3	45:KI:97:GLU:OE1	2.21	0.41
46:KJ:324:LYS:O	46:KJ:328:GLU:OE1	2.39	0.41
46:KJ:398:TYR:HB3	46:KJ:403:MET:SD	2.60	0.41
45:KK:188:ILE:HD12	45:KK:425:LEU:HG	2.03	0.41
45:KM:408:TYR:HA	45:KM:411:GLU:OE2	2.20	0.41
46:LB:65:LEU:HD22	46:LB:90:PHE:CE1	2.56	0.41
46:LB:68:LEU:HG	46:LB:147:MET:HE3	2.02	0.41
46:LB:270:PHE:HD2	46:LB:273:LEU:HD21	1.85	0.41
45:LC:265:ILE:HG22	45:LC:380:ASN:HD21	1.85	0.41
45:LE:68:LEU:HD12	45:LE:153:LEU:HD11	2.02	0.41
45:LE:210:TYR:CG	46:LF:324:LYS:NZ	2.88	0.41
46:LH:9:GLY:HA2	46:LH:66:MET:O	2.21	0.41
46:LH:151:LEU:O	46:LH:155:VAL:HG12	2.20	0.41
45:LI:125:LEU:HD12	45:LI:125:LEU:HA	1.90	0.41
46:LL:267:MET:HG3	46:LL:299:MET:HE2	2.02	0.41
45:LM:320:ARG:HD3	45:LM:360:PRO:HG3	2.02	0.41
45:MC:328:VAL:HG11	45:MC:353:VAL:HG21	2.01	0.41
46:MH:105:HIS:CE1	46:MH:150:LEU:HD12	2.55	0.41
46:MH:345:ILE:HG23	46:MH:345:ILE:O	2.20	0.41
45:MI:52:PHE:HZ	45:MI:239:THR:HG21	1.85	0.41
45:MM:117:LEU:HD12	45:MM:117:LEU:H	1.85	0.41
45:NA:326:LYS:HA	45:NA:326:LYS:HD3	1.96	0.41
45:NA:328:VAL:O	45:NA:332:ILE:HG12	2.20	0.41
46:NB:224:ASP:O	46:NB:228:LEU:HD23	2.20	0.41
46:NB:371:SER:O	46:NB:422:TYR:OH	2.30	0.41
45:NC:320:ARG:HG3	45:NC:360:PRO:HG3	2.02	0.41
45:NG:425:LEU:O	45:NG:429:GLU:HG2	2.20	0.41
45:NI:33:ASP:HA	45:NI:85:GLN:HB3	2.01	0.41
45:NI:151:SER:O	45:NI:155:GLU:OE1	2.38	0.41
45:NI:180:ALA:HB3	45:NI:183:GLU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NI:220:GLU:HG2	45:NI:221:ARG:CD	2.49	0.41
45:NK:22:GLU:HA	45:NK:25:CYS:SG	2.61	0.41
46:NN:289:LEU:HD13	46:NN:365:VAL:HG23	2.03	0.41
45:OA:69:ASP:OD1	45:OA:70:LEU:N	2.52	0.41
45:OA:217:LEU:HB3	45:OA:219:ILE:HG12	2.01	0.41
45:OA:404:PHE:CE1	46:OB:259:PRO:HA	2.55	0.41
46:OB:285:THR:HB	46:OB:287:PRO:HD2	2.02	0.41
46:OB:313:ALA:HB3	46:OB:349:ILE:HG13	2.03	0.41
45:OC:9:VAL:HA	45:OC:68:LEU:O	2.20	0.41
46:OD:293:MET:HE2	46:OD:367:PHE:HB2	2.02	0.41
45:OE:224:TYR:CZ	46:OF:246:LEU:HD21	2.55	0.41
45:OE:317:MET:HE3	45:OE:353:VAL:HG12	2.02	0.41
46:OF:398:TYR:O	46:OF:403:MET:HB2	2.20	0.41
45:OG:326:LYS:HE2	46:OJ:220:PRO:HB2	2.02	0.41
46:OH:52:ASN:ND2	46:OH:62:ARG:HB3	2.35	0.41
46:OJ:372:THR:HA	46:OJ:422:TYR:CE2	2.55	0.41
45:OK:21:TRP:HZ2	45:OK:65:ALA:HB2	1.86	0.41
45:OK:277:SER:H	45:OK:280:LYS:NZ	2.18	0.41
46:OL:117:LEU:HA	46:OL:117:LEU:HD23	1.96	0.41
46:OL:213:ARG:HD3	46:OL:297:LYS:NZ	2.35	0.41
45:OM:421:ALA:O	45:OM:425:LEU:HD23	2.20	0.41
45:PA:117:LEU:O	45:PA:121:ARG:HG2	2.20	0.41
45:PA:324:VAL:HG12	45:PA:326:LYS:HE2	2.01	0.41
45:PA:420:GLU:HA	45:PA:423:GLU:CD	2.40	0.41
46:PB:16:ILE:HD12	46:PB:229:VAL:HG11	2.01	0.41
45:PC:154:LEU:CD2	45:PC:197:HIS:HB3	2.50	0.41
46:PD:209:ASP:HB3	46:PD:213:ARG:NH1	2.32	0.41
46:PD:345:ILE:HG23	46:PD:345:ILE:O	2.20	0.41
45:PE:27:GLU:OE2	45:PE:28:HIS:ND1	2.53	0.41
45:PE:296:PHE:CE2	45:PE:335:ILE:HG21	2.55	0.41
45:PG:71:GLU:HA	45:PG:72:PRO:HD3	1.90	0.41
46:PH:261:PRO:HG2	46:PH:262:ARG:NH1	2.35	0.41
45:PI:387:VAL:HA	45:PI:390:ARG:HG2	2.01	0.41
46:PJ:217:LEU:HD23	46:PJ:219:THR:N	2.30	0.41
46:PL:108:GLU:O	46:PL:111:GLU:HG3	2.20	0.41
45:PM:208:ALA:O	45:PM:212:ILE:HG12	2.20	0.41
45:PM:210:TYR:HE2	46:PN:324:LYS:HG3	1.76	0.41
45:PM:212:ILE:HD13	45:PM:212:ILE:HA	1.92	0.41
46:PN:189:VAL:HA	46:PN:192:LEU:HB3	2.02	0.41
46:PN:286:VAL:HG12	46:PN:329:GLN:OE1	2.20	0.41
45:QA:293:ASN:O	45:QA:297:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QB:5:VAL:HG12	46:QB:62:ARG:HD3	2.02	0.41
46:QB:101:TRP:CE3	46:QB:187:LEU:HD23	2.56	0.41
46:QB:168:SER:O	46:QB:201:VAL:HA	2.21	0.41
45:QC:83:TYR:HB3	45:QC:86:LEU:HD12	2.02	0.41
46:QD:35:THR:HB	46:QD:37:HIS:HE1	1.86	0.41
45:QE:269:LEU:HD23	45:QE:379:SER:O	2.21	0.41
46:QF:6:HIS:HB3	46:QF:63:ALA:HB2	2.02	0.41
46:QF:10:GLY:O	46:QF:14:ASN:ND2	2.54	0.41
46:QF:222:TYR:O	46:QF:226:ASN:ND2	2.29	0.41
45:QI:27:GLU:OE2	45:QI:243:ARG:NH1	2.54	0.41
45:QI:225:THR:O	45:QI:229:ARG:HG2	2.20	0.41
46:QJ:50:TYR:CE1	46:QJ:241:ARG:HD3	2.55	0.41
46:QJ:188:SER:O	46:QJ:192:LEU:HD23	2.20	0.41
45:QM:121:ARG:HA	45:QM:124:LYS:NZ	2.36	0.41
45:QM:346:TRP:CD1	46:QN:391:ARG:HG3	2.55	0.41
46:QN:370:ASN:OD1	46:QN:422:TYR:OH	2.38	0.41
46:RB:69:GLU:HA	46:RB:70:PRO:HD3	1.87	0.41
46:RB:86:ARG:NH2	46:SB:282:ARG:HD2	2.27	0.41
46:RD:69:GLU:HA	46:RD:70:PRO:HD3	1.86	0.41
45:RE:271:SER:OG	45:RE:301:MET:HA	2.21	0.41
45:RE:287:SER:O	45:RE:290:GLU:HG2	2.20	0.41
45:RE:387:VAL:HG12	45:RE:390:ARG:NH2	2.29	0.41
45:RG:404:PHE:CD1	45:RG:407:TRP:HZ3	2.34	0.41
46:RH:7:ILE:HG12	46:RH:64:ILE:HD13	2.02	0.41
46:RH:318:ARG:O	46:RH:363:MET:HA	2.19	0.41
46:RJ:3:GLU:OE2	46:RJ:127:CYS:HB2	2.20	0.41
45:RM:182:VAL:HG22	45:RM:182:VAL:O	2.20	0.41
46:SB:26:ASP:O	46:SB:359:LYS:NZ	2.38	0.41
46:SB:156:ARG:NH2	46:SB:160:PRO:O	2.53	0.41
46:SB:267:MET:HE2	46:SB:299:MET:HB3	2.01	0.41
46:SD:226:ASN:HA	46:SD:229:VAL:HG22	2.02	0.41
46:SD:342:VAL:HG13	46:SD:345:ILE:HG22	2.02	0.41
46:SH:262:ARG:NH1	46:SH:421:GLU:OE2	2.54	0.41
45:SI:184:PRO:O	45:SI:188:ILE:HG12	2.19	0.41
45:SI:239:THR:HG23	45:SI:243:ARG:HH21	1.84	0.41
46:SJ:16:ILE:HD13	46:SJ:226:ASN:OD1	2.20	0.41
46:SJ:121:ARG:HH22	46:TJ:336:LYS:HZ2	1.68	0.41
46:SL:289:LEU:HD23	46:SL:289:LEU:HA	1.94	0.41
45:SM:85:GLN:OE1	45:SM:85:GLN:N	2.48	0.41
46:TB:316:LEU:HG	46:TB:352:SER:OG	2.19	0.41
45:TC:384:ILE:O	45:TC:387:VAL:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:TD:325:GLU:O	46:TD:328:GLU:HG2	2.20	0.41
45:TE:419:SER:O	45:TE:423:GLU:OE1	2.39	0.41
46:TH:221:THR:HG23	46:TH:224:ASP:H	1.84	0.41
46:TJ:200:MET:SD	46:TJ:268:ILE:HD13	2.60	0.41
46:TJ:304:ASP:HB3	46:TJ:307:HIS:CG	2.55	0.41
46:TL:208:TYR:CE2	46:TL:225:LEU:HD11	2.54	0.41
46:TL:421:GLU:O	46:TL:424:GLN:HG2	2.19	0.41
45:UE:88:HIS:CE1	45:UE:90:GLU:HG3	2.55	0.41
46:UF:117:LEU:HA	46:UF:120:VAL:HG12	2.03	0.41
46:UH:86:ARG:HB2	46:UH:89:ASN:OD1	2.21	0.41
46:UH:207:LEU:HD13	46:UH:210:ILE:HD11	2.02	0.41
46:UH:286:VAL:HG12	46:UH:329:GLN:HG3	2.01	0.41
46:UJ:2:ARG:HH12	46:UJ:240:LEU:CG	2.28	0.41
45:UK:141:VAL:HG22	45:UK:187:SER:HA	2.01	0.41
45:UM:2:ARG:HA	45:UM:133:GLN:HE22	1.85	0.41
45:UM:271:SER:HB2	45:UM:301:MET:HA	2.02	0.41
46:UN:318:ARG:HD3	46:UN:358:PRO:HD2	2.02	0.41
45:VA:205:ASP:OD1	45:VA:303:ALA:HA	2.20	0.41
46:VB:50:TYR:OH	46:VB:237:THR:HG21	2.20	0.41
45:VC:297:GLU:HB3	45:VC:300:ASN:ND2	2.36	0.41
46:VD:24:ILE:HG21	46:VD:50:TYR:HD2	1.85	0.41
46:VD:396:HIS:CD2	46:VD:397:TRP:CD1	3.09	0.41
45:VE:329:ASN:ND2	46:VH:175:VAL:HG12	2.35	0.41
45:VE:390:ARG:O	45:VE:394:LYS:HG3	2.20	0.41
45:VG:184:PRO:O	45:VG:188:ILE:HD12	2.20	0.41
46:VH:200:MET:HG2	46:VH:268:ILE:HG23	2.02	0.41
45:VK:289:ALA:O	45:VK:292:THR:HG22	2.20	0.41
45:VK:296:PHE:HE1	45:VK:377:MET:HG3	1.85	0.41
46:VL:255:VAL:HG13	46:VL:256:ASN:HD22	1.85	0.41
45:VM:141:VAL:HG11	45:VM:172:TYR:HD1	1.84	0.41
46:VN:184:ASN:OD1	46:VN:185:ALA:N	2.54	0.41
45:WA:404:PHE:CD1	46:WB:259:PRO:HA	2.56	0.41
46:WB:19:LYS:HA	46:WB:22:GLU:HG3	2.02	0.41
46:WB:113:ILE:HD12	46:WB:150:LEU:HD12	2.02	0.41
46:WB:250:LEU:O	46:WB:253:LEU:HG	2.20	0.41
46:WB:267:MET:HE3	46:WB:301:CYS:HB2	2.02	0.41
46:WD:218:THR:O	46:WD:220:PRO:HD3	2.19	0.41
45:WE:56:THR:HG23	45:WE:58:ALA:H	1.85	0.41
45:WE:69:ASP:OD2	45:WE:70:LEU:N	2.53	0.41
45:WG:206:ASN:OD1	47:WG:501:GTP:N2	2.49	0.41
45:WI:219:ILE:HG22	45:WI:222:PRO:HD3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WM:101:ASN:HA	45:WM:144:GLY:N	2.29	0.41
45:WM:259:LEU:HD11	45:WM:316:SER:HB3	2.01	0.41
46:WN:337:ASN:OD1	46:WN:340:TYR:HB2	2.19	0.41
45:DC:280:LYS:O	45:DC:280:LYS:HG3	2.19	0.41
2:0B:312:ARG:HB2	45:KI:48:ALA:HB2	2.03	0.41
4:0D:187:PHE:HB2	46:FB:322:SER:HB2	2.02	0.41
7:0G:132:ARG:NH2	45:JM:82:THR:HB	2.36	0.41
18:1I:144:THR:HA	46:KF:320:ARG:HH12	1.84	0.41
18:1I:144:THR:HG23	46:KF:355:ASP:OD2	2.20	0.41
19:1J:215:ASN:OD1	46:IJ:360:GLY:HA3	2.21	0.41
21:1L:308:ARG:NH2	45:BG:367:ASP:O	2.53	0.41
21:1L:406:ARG:HD2	46:CF:357:PRO:HG2	2.01	0.41
21:1L:494:GLU:HG3	34:4R:218:ILE:HG21	2.00	0.41
15:1X:100:LYS:HA	45:MC:282:TYR:HD2	1.85	0.41
31:2I:77:GLY:HA3	45:GE:338:LYS:HE2	2.02	0.41
25:2R:382:TYR:HA	46:EH:276:ARG:NH1	2.35	0.41
25:2R:465:GLU:HG2	46:EH:79:GLY:HA2	2.03	0.41
14:2V:24:ARG:NE	45:ME:430:LYS:HE2	2.35	0.41
37:5E:38:VAL:HG13	37:5E:39:ASP:N	2.35	0.41
37:5E:123:ARG:HH12	45:OA:371:VAL:C	2.24	0.41
34:5R:527:ASP:OD2	34:5R:529:GLU:HG3	2.21	0.41
35:5S:180:VAL:HA	35:5S:183:TYR:CE2	2.55	0.41
10:6Q:109:GLN:HE22	10:6Q:120:THR:HB	1.86	0.41
34:6R:66:THR:HG22	46:MN:39:ASP:O	2.19	0.41
34:6R:149:GLN:HB3	34:6R:159:TYR:CD1	2.56	0.41
46:AD:8:GLN:OE1	46:AD:17:GLY:HA3	2.21	0.41
45:AG:88:HIS:ND1	45:AG:90:GLU:HG3	2.36	0.41
45:AG:288:VAL:HA	45:AG:291:ILE:HG22	2.01	0.41
45:AK:51:THR:HG22	45:AK:52:PHE:CD2	2.55	0.41
46:AL:66:MET:CE	46:AL:147:MET:HG2	2.51	0.41
45:AM:49:PHE:O	45:AM:53:PHE:N	2.46	0.41
45:AM:91:GLN:NE2	45:AM:125:LEU:HD21	2.35	0.41
46:AN:1:MET:O	46:AN:2:ARG:HG2	2.20	0.41
46:AN:9:GLY:HA2	46:AN:66:MET:O	2.20	0.41
45:BA:79:ARG:HE	45:BA:92:LEU:HD22	1.84	0.41
45:BA:177:VAL:HG13	46:BB:327:ASP:OD2	2.21	0.41
46:BB:73:MET:SD	46:BB:90:PHE:HB3	2.61	0.41
45:BC:393:HIS:O	45:BC:397:LEU:HD23	2.20	0.41
46:BD:36:TYR:CE2	46:BD:44:LEU:HG	2.56	0.41
46:BD:173:PRO:HD3	46:BD:380:ARG:CZ	2.51	0.41
46:BF:86:ARG:HH21	46:BF:87:PRO:CG	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BF:148:GLY:O	46:BF:152:ILE:HG12	2.19	0.41
45:BG:414:GLU:HB3	45:BG:417:GLU:OE2	2.21	0.41
45:BI:224:TYR:CE2	46:BJ:323:THR:HG21	2.56	0.41
45:BK:22:GLU:O	45:BK:26:LEU:HD23	2.20	0.41
46:BL:3:GLU:HB2	46:BL:49:VAL:O	2.20	0.41
46:BL:201:VAL:HG22	46:BL:266:PHE:O	2.20	0.41
46:CB:284:LEU:HB3	46:CB:363:MET:HE1	2.01	0.41
45:CC:242:LEU:HD21	45:CC:251:ASP:HA	2.02	0.41
46:CD:65:LEU:HD22	46:CD:90:PHE:CE1	2.55	0.41
46:CD:201:VAL:HG23	46:CD:301:CYS:SG	2.59	0.41
46:CF:21:TRP:CZ2	46:CF:63:ALA:HB2	2.55	0.41
45:CG:121:ARG:HA	45:CG:121:ARG:CZ	2.50	0.41
45:CK:152:LEU:HD12	45:CK:152:LEU:HA	1.94	0.41
46:CL:2:ARG:H	46:CL:129:CYS:HB3	1.86	0.41
46:DF:215:LEU:O	46:DF:216:LYS:HG2	2.21	0.41
46:DJ:108:GLU:O	46:DJ:111:GLU:HG3	2.19	0.41
46:DL:383:GLU:OE1	46:DL:384:GLN:NE2	2.54	0.41
45:EA:210:TYR:CE1	45:EA:227:LEU:HD11	2.56	0.41
45:EC:40:LYS:HZ2	45:EC:43:GLY:H	1.69	0.41
46:EF:68:LEU:HB3	46:EF:96:GLY:HA2	2.03	0.41
46:EF:69:GLU:CD	46:EF:71:GLY:H	2.23	0.41
45:EG:377:MET:HE1	45:EG:379:SER:HB3	2.02	0.41
45:EI:196:GLU:N	45:EI:196:GLU:OE1	2.54	0.41
46:EJ:179:VAL:HG23	46:EJ:180:VAL:HG13	2.02	0.41
46:EJ:326:VAL:O	46:EJ:330:MET:HG2	2.20	0.41
45:EK:254:GLU:OE1	46:EL:99:ASN:ND2	2.53	0.41
46:EL:133:PHE:HB2	46:EL:164:MET:CE	2.51	0.41
46:EL:135:ILE:HG13	46:EL:152:ILE:CD1	2.49	0.41
46:EL:294:PHE:HD1	46:EL:333:VAL:HG21	1.86	0.41
46:EL:380:ARG:HA	46:EL:383:GLU:CD	2.40	0.41
46:EN:226:ASN:ND2	49:EN:501:GDP:HN1	2.19	0.41
45:FA:107:HIS:ND1	45:FA:107:HIS:O	2.54	0.41
45:FA:119:LEU:HD11	45:FA:156:ARG:HH11	1.85	0.41
46:FB:241:ARG:HH22	46:FB:318:ARG:NH2	2.18	0.41
45:FC:11:GLN:O	45:FC:15:GLN:HG2	2.19	0.41
45:FE:100:ALA:HB1	46:FF:252:LYS:HA	2.01	0.41
45:FE:101:ASN:HA	45:FE:144:GLY:H	1.84	0.41
46:FH:135:ILE:HG13	46:FH:152:ILE:HD11	2.02	0.41
45:FI:260:VAL:O	45:FI:260:VAL:HG23	2.20	0.41
46:FN:66:MET:CE	46:FN:151:LEU:HD11	2.49	0.41
46:FN:148:GLY:O	46:FN:152:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:88:HIS:CE1	45:GA:121:ARG:HH22	2.39	0.41
45:GA:99:ALA:O	45:GA:105:ARG:NE	2.53	0.41
45:GA:320:ARG:NH1	45:GA:360:PRO:HA	2.36	0.41
46:GB:148:GLY:O	46:GB:152:ILE:HG12	2.20	0.41
45:GC:222:PRO:O	46:GD:322:SER:HB2	2.20	0.41
46:GD:284:LEU:HD12	46:GD:363:MET:HB2	2.03	0.41
46:GF:21:TRP:CH2	46:GF:61:PRO:HB3	2.54	0.41
46:GH:73:MET:HA	46:GH:76:VAL:HG12	2.01	0.41
45:GI:231:ILE:O	45:GI:235:ILE:HG12	2.20	0.41
45:HC:118:CYS:O	45:HC:122:ILE:HG13	2.21	0.41
45:HE:288:VAL:HA	45:HE:291:ILE:HG12	2.01	0.41
46:HF:36:TYR:CE2	46:HF:44:LEU:HG	2.55	0.41
45:HG:60:LYS:HD2	45:IG:283:HIS:NE2	2.35	0.41
45:HI:345:ASP:OD1	45:HI:439:THR:HG22	2.20	0.41
46:HL:391:ARG:HA	46:HL:391:ARG:HD2	1.79	0.41
45:HM:387:VAL:HA	45:HM:390:ARG:HG2	2.01	0.41
45:IA:175:PRO:HD3	45:IA:205:ASP:OD2	2.20	0.41
46:IB:156:ARG:HA	46:IB:156:ARG:HD2	1.74	0.41
45:IC:105:ARG:HG2	45:IC:411:GLU:HG2	2.02	0.41
45:IC:311:LYS:O	45:IC:381:SER:HB2	2.21	0.41
45:IC:431:ASP:O	45:IC:435:VAL:HG12	2.20	0.41
46:ID:87:PRO:HA	46:ID:90:PHE:CD2	2.55	0.41
45:IE:387:VAL:HG12	45:IE:390:ARG:CZ	2.50	0.41
46:IH:184:ASN:OD1	46:IH:185:ALA:N	2.53	0.41
45:II:8:HIS:HB2	45:II:67:PHE:HD1	1.85	0.41
46:IJ:86:ARG:CD	45:JG:283:HIS:HB2	2.50	0.41
46:IJ:187:LEU:HD11	46:IJ:408:PHE:CE2	2.55	0.41
45:IK:150:GLY:O	45:IK:154:LEU:HD23	2.21	0.41
45:IM:3:GLU:HG3	45:IM:129:CYS:HB2	2.03	0.41
46:IN:3:GLU:O	46:IN:4:ILE:HD13	2.20	0.41
46:IN:105:HIS:HA	46:IN:147:MET:HE1	2.01	0.41
46:IN:125:GLU:HA	46:IN:125:GLU:OE1	2.20	0.41
46:IN:288:GLU:HA	46:IN:291:GLN:HG3	2.02	0.41
45:JE:227:LEU:O	45:JE:231:ILE:HG12	2.21	0.41
46:JF:304:ASP:OD1	46:JF:306:ARG:NH1	2.53	0.41
46:JF:372:THR:HA	46:JF:422:TYR:CE2	2.53	0.41
46:JH:69:GLU:HA	46:JH:70:PRO:HD3	1.89	0.41
46:JJ:175:VAL:O	46:JJ:175:VAL:HG23	2.21	0.41
46:JL:100:ASN:ND2	46:JL:103:LYS:HG3	2.36	0.41
46:JN:16:ILE:HD13	46:JN:226:ASN:OD1	2.20	0.41
46:JN:73:MET:SD	46:JN:90:PHE:HD1	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JN:116:VAL:HA	46:JN:119:VAL:HG22	2.01	0.41
46:JN:139:LEU:HA	46:JN:145:SER:HB3	2.02	0.41
46:JN:316:LEU:HB3	46:JN:366:THR:OG1	2.21	0.41
45:KC:20:CYS:HA	45:KC:232:ALA:HB1	2.02	0.41
46:KD:68:LEU:HG	46:KD:143:THR:OG1	2.20	0.41
46:KF:325:GLU:HG2	46:KF:326:VAL:N	2.36	0.41
45:KG:51:THR:HG21	45:KG:243:ARG:HB3	2.02	0.41
46:KH:177:ASP:OD1	46:KH:178:THR:HG23	2.20	0.41
46:KJ:248:SER:HA	46:KJ:252:LYS:HD2	2.01	0.41
46:KJ:390:ARG:HD2	46:KJ:390:ARG:HA	1.82	0.41
45:KK:20:CYS:HA	45:KK:232:ALA:HB1	2.03	0.41
45:KM:361:THR:HA	45:KM:370:LYS:HZ1	1.85	0.41
45:LC:183:GLU:HG2	45:LC:184:PRO:HD3	2.01	0.41
45:LC:210:TYR:CE1	45:LC:227:LEU:HD21	2.55	0.41
46:LD:190:HIS:NE2	46:LD:410:GLU:OE1	2.53	0.41
46:LF:121:ARG:O	46:LF:125:GLU:HG2	2.20	0.41
46:LH:3:GLU:HG3	46:LH:62:ARG:HH12	1.86	0.41
45:LI:317:MET:HE2	45:LI:319:TYR:HE1	1.85	0.41
45:LK:100:ALA:O	46:LL:255:VAL:HG11	2.20	0.41
45:LK:288:VAL:HA	45:LK:291:ILE:CG1	2.48	0.41
46:LL:313:ALA:HB1	46:LL:367:PHE:HE1	1.85	0.41
45:LM:179:THR:O	46:LN:350:LYS:HA	2.20	0.41
45:MA:66:VAL:HG11	45:MA:122:ILE:HD11	2.03	0.41
45:MA:149:LEU:O	45:MA:153:LEU:HD23	2.20	0.41
45:MA:186:ASN:OD1	45:MA:187:SER:N	2.54	0.41
46:MJ:167:PHE:CZ	46:MJ:233:MET:HG3	2.56	0.41
45:MK:17:GLY:HA2	45:MK:20:CYS:SG	2.60	0.41
45:MK:169:PHE:HB3	45:MK:204:LEU:HD11	2.03	0.41
45:MM:415:GLU:OE1	45:MM:415:GLU:HA	2.20	0.41
46:MN:6:HIS:O	46:MN:63:ALA:HA	2.19	0.41
45:NA:206:ASN:O	45:NA:210:TYR:HD1	2.03	0.41
45:NA:396:ASP:HB2	45:NA:422:ARG:HH22	1.85	0.41
45:NA:434:GLU:O	45:NA:437:ILE:HG22	2.20	0.41
45:NE:336:LYS:HE3	45:NE:351:PHE:HE2	1.84	0.41
45:NE:411:GLU:N	45:NE:411:GLU:OE2	2.54	0.41
45:NE:422:ARG:HA	45:NE:422:ARG:HD2	1.91	0.41
46:NF:154:LYS:HE2	46:NF:154:LYS:HB2	1.80	0.41
46:NH:214:THR:HG23	46:NH:215:LEU:HD22	2.01	0.41
45:NI:288:VAL:HA	45:NI:291:ILE:HG12	2.03	0.41
46:NJ:2:ARG:HB2	46:NJ:131:GLN:HG3	2.03	0.41
46:NJ:148:GLY:O	46:NJ:152:ILE:HG12	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NK:177:VAL:HG22	45:NK:207:GLU:HG3	2.02	0.41
46:NL:10:GLY:O	46:NL:14:ASN:ND2	2.53	0.41
46:NL:284:LEU:HB3	46:NL:289:LEU:HD21	2.02	0.41
45:NM:322:ASP:C	45:NM:373:ARG:HH12	2.23	0.41
46:NN:257:LEU:O	46:NN:259:PRO:HD3	2.20	0.41
45:OA:252:ILE:HD12	45:OA:252:ILE:H	1.85	0.41
46:OD:257:LEU:HD21	46:OD:314:SER:HB3	2.01	0.41
45:OE:306:ASP:OD1	45:OE:308:ARG:HG2	2.20	0.41
46:OH:69:GLU:HA	46:OH:70:PRO:HD3	1.91	0.41
45:OI:67:PHE:HD2	45:OI:92:LEU:HD22	1.85	0.41
45:OI:224:TYR:HE1	46:OJ:323:THR:HG1	1.66	0.41
45:OI:254:GLU:HA	45:OI:254:GLU:OE1	2.21	0.41
46:OJ:309:ARG:NH2	46:OJ:342:VAL:HG23	2.36	0.41
45:OK:10:GLY:O	45:OK:14:ILE:HG12	2.20	0.41
45:OK:46:ASP:OD1	45:OK:47:ASP:N	2.54	0.41
46:OL:253:LEU:O	46:OL:257:LEU:HB2	2.20	0.41
46:OL:309:ARG:NH1	46:OL:339:SER:O	2.54	0.41
46:ON:26:ASP:OD2	46:ON:27:GLU:N	2.53	0.41
46:ON:178:THR:HG22	46:ON:180:VAL:H	1.85	0.41
46:ON:267:MET:HB3	46:ON:299:MET:CE	2.50	0.41
46:PB:326:VAL:O	46:PB:330:MET:HG2	2.20	0.41
46:PD:249:ASP:OD1	46:PD:252:LYS:HG3	2.20	0.41
46:PD:407:GLU:O	46:PD:410:GLU:HG3	2.20	0.41
46:PF:210:ILE:O	46:PF:214:THR:HG22	2.20	0.41
46:PF:318:ARG:HH11	46:PF:358:PRO:HG3	1.85	0.41
46:PJ:289:LEU:O	46:PJ:293:MET:HG3	2.21	0.41
46:PJ:306:ARG:HD2	46:PJ:340:TYR:CE2	2.55	0.41
45:PK:166:LYS:HD2	45:PK:197:HIS:O	2.19	0.41
46:PL:140:GLY:HA2	46:PL:181:GLU:OE1	2.20	0.41
45:PM:154:LEU:HD12	45:PM:155:GLU:N	2.35	0.41
45:PM:387:VAL:O	45:PM:391:LEU:HD23	2.20	0.41
46:QF:326:VAL:O	46:QF:330:MET:HG2	2.20	0.41
46:QH:1:MET:HG2	46:QH:2:ARG:N	2.35	0.41
45:QK:83:TYR:HB3	45:QK:86:LEU:HD12	2.03	0.41
46:QL:165:GLU:OE1	46:QL:198:GLU:HG3	2.21	0.41
46:QL:239:CYS:SG	46:QL:247:ASN:HA	2.60	0.41
46:QN:289:LEU:HD13	46:QN:365:VAL:HG23	2.02	0.41
46:RB:3:GLU:HG3	46:RB:62:ARG:NH1	2.36	0.41
45:RC:378:ILE:HG13	45:RC:378:ILE:O	2.20	0.41
45:RE:275:ILE:HA	45:RE:368:LEU:HD11	2.02	0.41
45:RG:71:GLU:O	45:RG:71:GLU:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RG:119:LEU:HA	45:RG:122:ILE:HG12	2.02	0.41
46:RJ:74:ASP:OD1	46:RJ:77:ARG:NH2	2.52	0.41
45:RM:231:ILE:O	45:RM:235:ILE:HG12	2.20	0.41
45:SA:141:VAL:HG12	45:SA:171:ILE:O	2.20	0.41
45:SA:141:VAL:HG22	45:SA:187:SER:HA	2.03	0.41
46:SB:150:LEU:HD23	46:SB:154:LYS:HZ2	1.85	0.41
45:SC:121:ARG:HH11	45:SC:124:LYS:HE2	1.86	0.41
46:SD:201:VAL:HG12	46:SD:266:PHE:O	2.20	0.41
45:SE:229:ARG:HE	45:SE:363:VAL:HG12	1.84	0.41
46:SF:267:MET:HE2	46:SF:301:CYS:HB2	2.02	0.41
46:SH:173:PRO:HG2	46:SH:380:ARG:HD3	2.02	0.41
46:SJ:8:GLN:O	46:SJ:66:MET:HG2	2.20	0.41
46:SJ:36:TYR:CE2	46:SJ:44:LEU:HD11	2.55	0.41
46:TB:3:GLU:HA	46:TB:49:VAL:HG13	2.01	0.41
46:TB:257:LEU:HA	46:TB:312:THR:HG21	2.02	0.41
45:TC:27:GLU:CD	45:TC:243:ARG:HH21	2.24	0.41
45:TC:174:SER:OG	45:TC:207:GLU:HB2	2.20	0.41
45:TC:287:SER:HA	45:TC:373:ARG:HH12	1.86	0.41
46:TD:258:ILE:O	46:TD:258:ILE:HG13	2.20	0.41
45:TG:103:PHE:H	45:TG:408:TYR:HE2	1.66	0.41
45:TG:141:VAL:HG11	45:TG:172:TYR:HD1	1.84	0.41
45:TG:372:MET:SD	45:TG:372:MET:N	2.91	0.41
45:TG:416:GLY:O	45:TG:419:SER:OG	2.32	0.41
46:TH:258:ILE:HG23	46:TH:266:PHE:HZ	1.86	0.41
46:TH:350:LYS:HA	45:TI:179:THR:O	2.21	0.41
45:TK:383:ALA:O	45:TK:386:GLU:HG2	2.21	0.41
46:TL:113:ILE:HA	46:TL:116:VAL:HG12	2.02	0.41
45:TM:331:SER:O	45:TM:335:ILE:HG12	2.21	0.41
46:TN:201:VAL:HG22	46:TN:266:PHE:O	2.20	0.41
46:UB:1:MET:O	46:UB:2:ARG:HG2	2.20	0.41
45:UC:352:LYS:HZ3	46:UD:179:VAL:N	2.17	0.41
45:UC:393:HIS:O	45:UC:397:LEU:HG	2.21	0.41
46:UD:39:ASP:OD2	46:UD:40:SER:N	2.54	0.41
45:UG:133:GLN:O	45:UG:164:LYS:HE3	2.20	0.41
45:UG:425:LEU:HD23	45:UG:425:LEU:HA	1.80	0.41
46:UH:69:GLU:HA	46:UH:70:PRO:HD3	1.86	0.41
46:UH:122:LYS:HA	46:UH:122:LYS:HE2	2.02	0.41
46:UH:395:LEU:O	46:UH:399:THR:HG23	2.20	0.41
45:UK:152:LEU:O	45:UK:155:GLU:HG3	2.20	0.41
45:VA:387:VAL:HG12	45:VA:390:ARG:NH2	2.24	0.41
46:VB:188:SER:O	46:VB:192:LEU:HD23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VD:121:ARG:O	46:VD:124:ALA:N	2.53	0.41
46:VD:312:THR:HG22	46:VD:370:ASN:HB3	2.01	0.41
46:VF:226:ASN:ND2	49:VF:501:GDP:HN1	2.03	0.41
46:VH:20:PHE:CE1	46:VH:233:MET:HB3	2.54	0.41
46:VH:41:ASP:OD1	46:VH:42:LEU:HD12	2.19	0.41
46:VH:201:VAL:HG23	46:VH:301:CYS:SG	2.60	0.41
46:VH:321:MET:SD	46:VH:363:MET:HG3	2.61	0.41
46:VJ:261:PRO:HG2	46:VJ:262:ARG:NH1	2.35	0.41
45:VK:2:ARG:O	45:VK:51:THR:HA	2.19	0.41
46:VN:12:CYS:HB3	46:VN:138:SER:HB2	2.03	0.41
45:WA:317:MET:HG3	45:WA:377:MET:HB3	2.01	0.41
45:WA:317:MET:N	45:WA:317:MET:SD	2.93	0.41
46:WB:306:ARG:NH1	46:WB:337:ASN:OD1	2.48	0.41
45:WC:434:GLU:O	45:WC:437:ILE:HG12	2.21	0.41
46:WD:21:TRP:CZ3	46:WD:61:PRO:HB3	2.55	0.41
46:WD:388:MET:HE1	46:WD:394:PHE:HD1	1.85	0.41
46:WF:238:CYS:SG	46:WF:239:CYS:N	2.94	0.41
45:WG:73:THR:O	45:WG:76:ASP:HB2	2.20	0.41
45:WG:74:VAL:HA	45:WG:77:GLU:CD	2.41	0.41
45:WI:101:ASN:HA	45:WI:144:GLY:H	1.85	0.41
46:WJ:17:GLY:HA2	46:WJ:20:PHE:HB3	2.01	0.41
46:WN:173:PRO:HD2	46:WN:380:ARG:NH2	2.36	0.41
45:DC:63:PRO:HG2	45:DC:87:PHE:HE2	1.83	0.41
2:0B:215:MET:HA	45:JI:245:ASP:OD2	2.19	0.41
3:0C:77:PRO:HB3	46:EH:39:ASP:OD1	2.18	0.41
21:1L:649:PHE:HZ	46:CD:320:ARG:NH2	2.18	0.41
25:2R:248:GLN:H	45:BG:58:ALA:HB2	1.85	0.41
31:3I:263:PHE:HE2	46:GJ:294:PHE:HB3	1.84	0.41
12:3T:74:ILE:HD12	45:MK:159:VAL:CG2	2.51	0.41
34:4R:181:VAL:HG11	34:4R:204:VAL:CG1	2.51	0.41
15:4X:87:ASP:HA	15:4X:90:ARG:CZ	2.49	0.41
36:5A:172:LEU:HA	36:5A:175:LYS:NZ	2.35	0.41
35:5S:210:LYS:HG3	35:5S:212:GLU:OE2	2.21	0.41
41:6H:241:LEU:HA	41:6H:243:LYS:HZ3	1.85	0.41
41:6H:330:GLU:N	41:6H:330:GLU:OE1	2.54	0.41
34:6R:206:ASN:ND2	34:6R:210:GLU:OE2	2.39	0.41
34:7R:339:MET:CE	34:7R:346:ASP:HB3	2.51	0.41
34:7R:396:ASP:OD1	46:EB:218:THR:OG1	2.39	0.41
45:AC:35:GLN:NE2	45:AC:60:LYS:HB3	2.35	0.41
46:AD:256:ASN:OD1	46:AD:256:ASN:O	2.38	0.41
45:AE:205:ASP:OD1	45:AE:303:ALA:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AF:214:THR:HG22	46:AF:297:LYS:HE2	2.01	0.41
45:AG:71:GLU:OE2	46:AH:247:ASN:ND2	2.53	0.41
45:AI:21:TRP:CZ2	45:AI:65:ALA:HB2	2.56	0.41
45:AI:265:ILE:HD13	45:AI:432:TYR:CE1	2.55	0.41
45:AK:35:GLN:HG2	45:AK:60:LYS:HG2	2.02	0.41
45:AK:384:ILE:O	45:AK:387:VAL:HG22	2.21	0.41
46:AL:1:MET:O	46:AL:2:ARG:HG2	2.19	0.41
46:AN:6:HIS:O	46:AN:63:ALA:HA	2.20	0.41
46:AN:103:LYS:HB3	46:AN:103:LYS:HE2	1.90	0.41
45:BA:79:ARG:NH2	45:BA:92:LEU:HB2	2.30	0.41
45:BE:164:LYS:HG3	45:BE:165:SER:N	2.35	0.41
46:BF:175:VAL:O	46:BF:175:VAL:HG23	2.20	0.41
45:BI:3:GLU:HG2	45:BI:132:LEU:HA	2.01	0.41
46:BJ:87:PRO:HD2	46:CH:281:TYR:CE1	2.55	0.41
46:BJ:113:ILE:HB	46:BJ:117:LEU:HD23	2.02	0.41
46:BJ:270:PHE:HD2	46:BJ:273:LEU:HD21	1.85	0.41
45:BK:8:HIS:ND1	45:BK:17:GLY:HA3	2.36	0.41
46:BL:187:LEU:HD11	46:BL:408:PHE:CE1	2.55	0.41
46:BN:28:HIS:C	46:BN:43:GLN:HE21	2.24	0.41
46:CD:289:LEU:HD23	46:CD:289:LEU:HA	1.79	0.41
46:CF:1:MET:O	46:CF:2:ARG:HG2	2.20	0.41
45:CG:107:HIS:O	45:CG:107:HIS:ND1	2.53	0.41
45:CG:152:LEU:HD12	45:CG:152:LEU:HA	1.95	0.41
45:CI:182:VAL:O	45:CI:182:VAL:HG22	2.20	0.41
46:CL:69:GLU:HA	46:CL:70:PRO:HD3	1.90	0.41
46:CL:130:LEU:HD12	46:CL:130:LEU:HA	1.91	0.41
45:CM:304:LYS:HB2	45:CM:304:LYS:HE2	1.90	0.41
46:DB:42:LEU:HD13	46:DB:45:GLU:OE1	2.21	0.41
45:DE:200:VAL:HG13	45:DE:268:MET:SD	2.60	0.41
46:DH:237:THR:HG23	46:DH:241:ARG:HH21	1.84	0.41
46:DH:324:LYS:O	46:DH:328:GLU:HG2	2.19	0.41
46:DH:418:LEU:O	46:DH:422:TYR:HB2	2.21	0.41
45:DI:238:LEU:HD12	45:DI:238:LEU:HA	1.87	0.41
45:DI:322:ASP:OD2	45:DI:373:ARG:NH1	2.49	0.41
46:DJ:204:ASN:OD1	49:DJ:501:GDP:O2'	2.29	0.41
45:DK:287:SER:O	45:DK:291:ILE:HG23	2.21	0.41
45:DK:392:ASP:OD2	45:DK:422:ARG:NH2	2.53	0.41
45:DK:411:GLU:N	45:DK:411:GLU:OE2	2.53	0.41
45:DM:175:PRO:HB2	45:DM:176:GLN:OE1	2.20	0.41
45:DM:280:LYS:O	45:DM:280:LYS:HG3	2.21	0.41
45:DM:286:LEU:HD13	45:DM:371:VAL:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DN:116:VAL:HA	46:DN:119:VAL:HG12	2.03	0.41
46:DN:288:GLU:O	46:DN:291:GLN:HG3	2.20	0.41
46:DN:396:HIS:HA	46:DN:399:THR:OG1	2.21	0.41
45:EC:260:VAL:HG13	45:EC:265:ILE:O	2.21	0.41
46:ED:66:MET:HE2	46:ED:116:VAL:HG21	2.01	0.41
46:EF:257:LEU:HD11	46:EF:314:SER:HB2	2.03	0.41
45:EG:184:PRO:O	45:EG:188:ILE:HG12	2.20	0.41
46:EH:164:MET:O	46:EH:197:ASP:HB2	2.20	0.41
45:EI:200:VAL:HG13	45:EI:268:MET:SD	2.61	0.41
46:EJ:135:ILE:HG13	46:EJ:152:ILE:CD1	2.48	0.41
45:EM:7:ILE:HG22	45:EM:66:VAL:HG12	2.02	0.41
46:EN:293:MET:HE3	46:EN:367:PHE:HB2	2.02	0.41
45:FA:372:MET:N	45:FA:372:MET:SD	2.93	0.41
45:FA:420:GLU:HG2	45:FA:421:ALA:N	2.36	0.41
46:FD:52:ASN:OD1	46:FD:62:ARG:NH2	2.53	0.41
46:FD:210:ILE:HG22	46:FD:297:LYS:O	2.21	0.41
46:FF:201:VAL:HG12	46:FF:266:PHE:O	2.20	0.41
45:FG:107:HIS:ND1	45:FG:107:HIS:O	2.54	0.41
45:FG:260:VAL:HG13	45:FG:265:ILE:O	2.20	0.41
46:FH:125:GLU:OE2	46:GH:336:LYS:NZ	2.54	0.41
46:FL:290:THR:HA	46:FL:293:MET:HB3	2.03	0.41
46:FL:314:SER:HA	46:FL:350:LYS:HB3	2.02	0.41
46:FN:24:ILE:HG23	46:FN:241:ARG:HH12	1.85	0.41
46:FN:46:ARG:HG3	46:FN:49:VAL:HG23	2.03	0.41
45:GC:188:ILE:HG22	45:GC:421:ALA:HB1	2.03	0.41
46:GD:293:MET:HG3	46:GD:365:VAL:HG11	2.03	0.41
45:GE:153:LEU:O	45:GE:157:LEU:HG	2.21	0.41
45:GE:223:THR:OG1	45:GE:224:TYR:N	2.51	0.41
46:GF:316:LEU:HB2	46:GF:366:THR:OG1	2.20	0.41
46:GF:409:THR:O	46:GF:412:GLU:HG3	2.21	0.41
46:GH:9:GLY:HA2	46:GH:66:MET:O	2.20	0.41
46:GH:167:PHE:HD1	46:GH:202:ILE:HD11	1.86	0.41
46:GJ:105:HIS:CE1	46:GJ:150:LEU:HD12	2.55	0.41
45:GK:35:GLN:HE22	45:GK:59:GLY:HA2	1.85	0.41
45:GK:201:ALA:HB3	45:GK:267:PHE:CD1	2.55	0.41
45:GK:224:TYR:O	45:GK:228:ASN:ND2	2.53	0.41
45:HA:268:MET:HE2	45:HA:268:MET:HB3	1.90	0.41
46:HB:173:PRO:HG2	46:HB:380:ARG:HD3	2.03	0.41
45:HC:220:GLU:CD	45:HC:221:ARG:HG2	2.40	0.41
46:HD:6:HIS:NE2	46:HD:8:GLN:HB3	2.35	0.41
46:HD:131:GLN:HE22	46:HD:240:LEU:HD11	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HF:301:CYS:SG	46:HF:302:ALA:N	2.94	0.41
45:HG:91:GLN:HB3	45:HG:121:ARG:NH2	2.35	0.41
45:HI:176:GLN:NE2	45:HI:177:VAL:HG23	2.36	0.41
45:HK:35:GLN:NE2	45:HK:60:LYS:HB3	2.35	0.41
45:HK:178:SER:HB2	45:HK:183:GLU:OE1	2.21	0.41
45:HM:20:CYS:HA	45:HM:232:ALA:HB1	2.01	0.41
45:HM:331:SER:O	45:HM:335:ILE:HG12	2.21	0.41
46:HN:4:ILE:HG13	46:HN:132:GLY:O	2.20	0.41
46:HN:65:LEU:HD22	46:HN:90:PHE:CE1	2.56	0.41
46:HN:244:GLY:HA3	46:HN:354:CYS:HA	2.02	0.41
46:IH:309:ARG:NH1	46:IH:343:GLU:OE2	2.53	0.41
46:IJ:416:ASN:HA	46:IJ:419:VAL:HG12	2.02	0.41
45:IK:156:ARG:HA	45:IK:156:ARG:HD2	1.91	0.41
45:IK:426:ALA:O	45:IK:429:GLU:HG3	2.21	0.41
46:IL:156:ARG:HG3	46:IL:195:ASN:HB3	2.01	0.41
45:IM:33:ASP:HA	45:IM:85:GLN:HG3	2.03	0.41
45:IM:71:GLU:HA	45:IM:72:PRO:HD3	1.84	0.41
45:IM:207:GLU:HA	45:IM:210:TYR:CD2	2.55	0.41
45:IM:401:LYS:HA	45:IM:401:LYS:HD2	1.90	0.41
46:IN:187:LEU:HD21	46:IN:408:PHE:CE1	2.56	0.41
46:IN:316:LEU:HB3	46:IN:366:THR:HG22	2.02	0.41
45:JA:21:TRP:CZ2	45:JA:65:ALA:HB2	2.56	0.41
46:JH:31:ASP:OD1	46:JH:34:GLY:N	2.53	0.41
46:JH:325:GLU:O	46:JH:328:GLU:HG3	2.20	0.41
45:JI:71:GLU:HG2	45:JI:71:GLU:O	2.20	0.41
45:JI:151:SER:HB2	45:JI:193:SER:OG	2.21	0.41
46:JL:3:GLU:OE1	46:JL:127:CYS:HB2	2.20	0.41
46:JL:18:ALA:O	46:JL:22:GLU:HG3	2.20	0.41
45:JM:151:SER:O	45:JM:155:GLU:OE1	2.37	0.41
45:JM:187:SER:O	45:JM:191:THR:HG23	2.20	0.41
45:KA:377:MET:HE2	45:KA:379:SER:HB3	2.02	0.41
46:KF:387:ALA:HA	46:KF:390:ARG:NH1	2.34	0.41
45:KG:7:ILE:HB	45:KG:137:VAL:HG12	2.01	0.41
46:KH:267:MET:CE	46:KH:299:MET:HG2	2.51	0.41
46:KL:9:GLY:HA2	46:KL:66:MET:O	2.20	0.41
45:KM:98:ASP:OD1	45:KM:99:ALA:N	2.52	0.41
45:LA:185:TYR:HE1	45:LA:398:MET:HB3	1.85	0.41
45:LC:11:GLN:HG3	45:LC:74:VAL:HG11	2.03	0.41
45:LC:75:ILE:HA	45:LC:78:VAL:HG12	2.03	0.41
46:LD:3:GLU:HG3	46:LD:62:ARG:NH1	2.35	0.41
45:LE:196:GLU:OE1	45:LE:196:GLU:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LF:8:GLN:OE1	46:LF:17:GLY:HA3	2.21	0.41
45:LG:275:ILE:HD13	45:LG:275:ILE:HA	1.92	0.41
46:LH:190:HIS:HD2	46:LH:414:ASN:HB2	1.86	0.41
45:LI:221:ARG:CA	46:LJ:324:LYS:HZ1	2.28	0.41
46:LJ:125:GLU:OE1	46:LJ:125:GLU:N	2.54	0.41
45:LK:64:ARG:NH1	45:LK:129:CYS:SG	2.94	0.41
45:LK:292:THR:HG21	45:LK:331:SER:HB2	2.02	0.41
46:LL:117:LEU:HD11	46:LL:154:LYS:HG2	2.02	0.41
46:LL:238:CYS:SG	46:LL:239:CYS:N	2.94	0.41
45:MC:210:TYR:CE1	45:MC:227:LEU:HD21	2.54	0.41
45:MC:332:ILE:HA	45:MC:335:ILE:HG22	2.02	0.41
46:MF:248:SER:HA	46:MF:252:LYS:HD2	2.02	0.41
45:MG:288:VAL:CG1	45:MG:327:ASP:HB3	2.39	0.41
45:MK:1:MET:HE2	46:MN:70:PRO:HG3	2.02	0.41
46:ML:97:ALA:C	46:ML:103:LYS:HZ2	2.23	0.41
45:MM:155:GLU:HG2	45:MM:197:HIS:CD2	2.56	0.41
45:NA:141:VAL:CG1	45:NA:172:TYR:HA	2.51	0.41
45:NA:346:TRP:CE3	46:ND:391:ARG:HD3	2.55	0.41
46:NB:256:ASN:HB3	46:NB:350:LYS:CD	2.42	0.41
46:NB:268:ILE:CD1	46:NB:368:VAL:HG22	2.51	0.41
46:NB:406:MET:O	46:NB:409:THR:OG1	2.17	0.41
45:NC:71:GLU:OE1	46:ND:247:ASN:ND2	2.53	0.41
45:NE:345:ASP:OD2	45:NE:438:GLU:HG2	2.19	0.41
46:NF:221:THR:HG23	46:NF:223:GLY:H	1.86	0.41
45:NG:371:VAL:HG22	45:NG:373:ARG:H	1.85	0.41
45:NI:386:GLU:O	45:NI:390:ARG:HG3	2.21	0.41
46:NJ:257:LEU:O	46:NJ:259:PRO:HD3	2.21	0.41
46:NL:3:GLU:OE2	46:NL:127:CYS:HB2	2.21	0.41
46:NN:184:ASN:OD1	46:NN:185:ALA:N	2.53	0.41
46:NN:309:ARG:N	46:NN:372:THR:OG1	2.50	0.41
45:OA:116:ASP:OD1	45:OA:117:LEU:N	2.52	0.41
45:OA:242:LEU:HD11	45:OA:251:ASP:OD1	2.20	0.41
45:OA:394:LYS:HE2	45:OA:394:LYS:HA	2.03	0.41
46:OB:287:PRO:O	46:OB:290:THR:HG22	2.21	0.41
46:OB:318:ARG:HD3	46:OB:358:PRO:CD	2.50	0.41
45:OG:86:LEU:HD23	45:OG:87:PHE:CE1	2.55	0.41
45:OG:326:LYS:HD2	46:OJ:220:PRO:HD2	2.03	0.41
45:OG:333:ALA:O	45:OG:337:THR:HG23	2.20	0.41
45:OI:19:ALA:HA	45:OI:22:GLU:OE1	2.20	0.41
46:OJ:318:ARG:HD3	46:OJ:358:PRO:HD3	2.01	0.41
45:OK:180:ALA:HA	46:OL:350:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OL:175:VAL:HG22	46:OL:205:GLU:HB2	2.01	0.41
45:OM:174:SER:HB3	45:OM:207:GLU:HG2	2.03	0.41
46:PB:239:CYS:SG	46:PB:316:LEU:HD23	2.61	0.41
46:PD:3:GLU:O	46:PD:130:LEU:HD12	2.20	0.41
46:PD:288:GLU:OE2	46:PD:289:LEU:HD22	2.21	0.41
46:PD:304:ASP:OD1	46:PD:306:ARG:HG2	2.20	0.41
46:PD:375:GLN:OE1	46:PD:423:GLN:HB3	2.21	0.41
45:PE:209:ILE:HG21	45:PE:227:LEU:HG	2.03	0.41
45:PE:245:ASP:N	45:PE:245:ASP:OD1	2.52	0.41
45:PG:90:GLU:O	45:PG:121:ARG:NH1	2.54	0.41
45:PG:224:TYR:CE2	46:PH:323:THR:HG21	2.55	0.41
45:PG:384:ILE:O	45:PG:387:VAL:HG22	2.21	0.41
45:PK:319:TYR:CD2	45:PK:323:VAL:HG21	2.56	0.41
45:PK:387:VAL:HG23	45:PK:390:ARG:NE	2.36	0.41
46:PL:297:LYS:HA	46:PL:297:LYS:HD3	1.88	0.41
46:PN:120:VAL:HA	46:PN:123:GLU:CD	2.41	0.41
46:PN:203:ASP:O	46:PN:207:LEU:HG	2.21	0.41
45:QA:19:ALA:HA	45:QA:22:GLU:OE1	2.19	0.41
45:QA:312:TYR:HA	45:QA:381:SER:OG	2.21	0.41
46:QB:359:LYS:HE3	46:QB:359:LYS:HB3	1.86	0.41
45:QC:390:ARG:HB3	45:QC:394:LYS:HZ3	1.85	0.41
46:QD:9:GLY:HA2	46:QD:66:MET:O	2.20	0.41
45:QE:14:ILE:HD11	45:QE:69:ASP:HB2	2.03	0.41
45:QE:25:CYS:HB2	45:QE:30:ILE:HG23	2.03	0.41
45:QE:88:HIS:HD2	45:RE:280:LYS:NZ	2.19	0.41
46:QF:210:ILE:O	46:QF:214:THR:HG22	2.20	0.41
45:QI:167:LEU:HG	45:QI:200:VAL:HB	2.01	0.41
45:QK:188:ILE:HD11	45:QK:391:LEU:HB3	2.03	0.41
45:QK:239:THR:HG23	45:QK:243:ARG:HH21	1.85	0.41
46:QL:152:ILE:HG22	46:QL:195:ASN:ND2	2.35	0.41
46:RB:202:ILE:HG13	46:RB:300:MET:HE3	2.03	0.41
46:RB:267:MET:HE1	46:RB:299:MET:HB3	2.02	0.41
45:RC:3:GLU:O	45:RC:133:GLN:N	2.31	0.41
45:RC:51:THR:HG22	45:RC:52:PHE:CD1	2.55	0.41
46:RD:371:SER:O	46:RD:422:TYR:OH	2.28	0.41
45:RE:350:GLY:HA2	46:RF:179:VAL:HG13	2.01	0.41
45:RG:319:TYR:HB3	45:RG:323:VAL:HG21	2.02	0.41
46:RH:380:ARG:HE	46:RH:380:ARG:HB3	1.66	0.41
46:RJ:3:GLU:OE1	46:RJ:3:GLU:N	2.51	0.41
46:RJ:6:HIS:O	46:RJ:63:ALA:HA	2.20	0.41
46:RJ:116:VAL:HA	46:RJ:119:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RK:22:GLU:OE2	45:RK:229:ARG:NH1	2.53	0.41
45:RK:326:LYS:HB3	46:RL:208:TYR:HE1	1.85	0.41
46:RL:156:ARG:HG3	46:RL:195:ASN:HB2	2.03	0.41
45:SA:56:THR:O	45:TA:285:GLN:HB3	2.20	0.41
46:SB:19:LYS:HA	46:SB:22:GLU:HG3	2.01	0.41
46:SD:113:ILE:HA	46:SD:116:VAL:HG12	2.02	0.41
45:SE:6:SER:OG	45:SE:8:HIS:NE2	2.54	0.41
45:SE:194:LEU:O	45:SE:198:THR:HG22	2.20	0.41
46:SF:99:ASN:HA	46:SF:142:GLY:N	2.30	0.41
46:SF:101:TRP:HD1	46:SF:145:SER:OG	2.03	0.41
45:SG:231:ILE:O	45:SG:235:ILE:HG12	2.20	0.41
45:SG:237:SER:HA	45:SG:320:ARG:HH11	1.86	0.41
46:SH:222:TYR:CD1	46:SH:225:LEU:HD12	2.56	0.41
46:SH:246:LEU:HA	45:SI:11:GLN:HE22	1.85	0.41
45:SI:118:CYS:O	45:SI:122:ILE:HG12	2.20	0.41
45:SK:194:LEU:O	45:SK:198:THR:HG22	2.20	0.41
46:SL:67:ASP:OD1	46:SL:68:LEU:N	2.54	0.41
46:SL:376:GLU:HG2	46:SL:377:MET:N	2.34	0.41
45:TA:172:TYR:CD2	45:TA:203:MET:HG3	2.56	0.41
46:TB:67:ASP:OD1	46:TB:68:LEU:N	2.52	0.41
46:TB:403:MET:HG3	46:TB:407:GLU:OE2	2.20	0.41
46:TD:376:GLU:O	46:TD:380:ARG:HG2	2.20	0.41
45:TE:91:GLN:OE1	45:TE:91:GLN:N	2.52	0.41
45:TE:268:MET:HB2	45:TE:379:SER:O	2.19	0.41
45:TE:326:LYS:HZ3	46:TF:208:TYR:HB3	1.85	0.41
45:TI:27:GLU:OE2	45:TI:28:HIS:CE1	2.73	0.41
46:TJ:116:VAL:O	46:TJ:119:VAL:HG12	2.19	0.41
45:TK:424:ASP:O	45:TK:428:LEU:HD23	2.20	0.41
46:TN:399:THR:HA	46:TN:403:MET:O	2.20	0.41
46:TN:406:MET:O	46:TN:410:GLU:HG3	2.20	0.41
45:UC:101:ASN:HA	45:UC:144:GLY:N	2.33	0.41
45:UC:265:ILE:HG22	45:UC:380:ASN:HD21	1.85	0.41
45:UC:284:GLU:HG2	45:UC:286:LEU:HD22	2.02	0.41
45:UE:186:ASN:OD1	45:UE:187:SER:N	2.53	0.41
45:UE:270:SER:O	45:UE:302:MET:HB2	2.19	0.41
46:UF:183:TYR:OH	46:UF:388:MET:HB3	2.20	0.41
45:UG:387:VAL:O	45:UG:390:ARG:HG3	2.20	0.41
46:UH:303:ALA:HB2	46:UH:377:MET:HE2	2.03	0.41
45:UK:167:LEU:HG	45:UK:200:VAL:HB	2.03	0.41
45:UM:196:GLU:OE1	45:UM:196:GLU:N	2.52	0.41
45:UM:304:LYS:HA	45:UM:304:LYS:HD2	1.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:336:LYS:HA	45:UM:336:LYS:HE2	2.02	0.41
46:UN:74:ASP:OD1	46:UN:77:ARG:NH1	2.53	0.41
45:VA:75:ILE:HA	45:VA:78:VAL:HB	2.01	0.41
45:VA:175:PRO:HB2	45:VA:176:GLN:OE1	2.21	0.41
45:VA:224:TYR:HE2	46:VB:323:THR:HG1	1.67	0.41
45:VA:265:ILE:HG23	45:VA:432:TYR:CZ	2.56	0.41
45:VA:426:ALA:O	45:VA:430:LYS:HG2	2.20	0.41
46:VB:63:ALA:O	46:VB:89:ASN:ND2	2.43	0.41
45:VC:259:LEU:HD23	45:VC:259:LEU:HA	1.93	0.41
45:VE:329:ASN:HA	45:VE:332:ILE:HG22	2.02	0.41
46:VH:210:ILE:HD13	46:VH:298:ASN:HA	2.02	0.41
45:VI:71:GLU:HA	45:VI:72:PRO:HD3	1.89	0.41
45:VI:387:VAL:O	45:VI:391:LEU:HD23	2.20	0.41
45:VI:427:ALA:O	45:VI:430:LYS:HG2	2.21	0.41
45:VM:64:ARG:NH1	45:VM:129:CYS:SG	2.94	0.41
45:VM:141:VAL:HG12	45:VM:171:ILE:O	2.20	0.41
46:WB:19:LYS:HZ2	46:WB:227:HIS:HB2	1.85	0.41
46:WB:150:LEU:HB2	46:WB:154:LYS:HZ1	1.82	0.41
46:WB:201:VAL:HG22	46:WB:266:PHE:O	2.20	0.41
45:WC:235:ILE:O	45:WC:239:THR:HG22	2.20	0.41
45:WE:129:CYS:SG	45:WE:130:THR:N	2.94	0.41
45:WE:176:GLN:O	46:WF:331:LEU:HD21	2.21	0.41
46:WF:273:LEU:N	46:WF:292:GLN:HE22	2.14	0.41
45:WG:117:LEU:O	45:WG:121:ARG:HD3	2.21	0.41
46:WH:141:GLY:HA3	49:WH:501:GDP:O3A	2.20	0.41
46:WH:167:PHE:CE2	46:WH:200:MET:HG3	2.56	0.41
46:WJ:326:VAL:O	46:WJ:330:MET:HG2	2.19	0.41
45:WK:242:LEU:HD11	45:WK:252:ILE:HG23	2.01	0.41
46:WL:141:GLY:HA3	49:WL:501:GDP:O3A	2.21	0.41
45:CE:17:GLY:HA2	45:CE:20:CYS:SG	2.60	0.41
45:DC:98:ASP:OD1	45:DC:99:ALA:N	2.54	0.41
45:DC:335:ILE:HA	45:DC:338:LYS:NZ	2.35	0.41
2:0B:82:VAL:HG12	46:JH:355:ASP:OD2	2.19	0.41
17:1F:102:TYR:O	45:GI:31:GLN:NE2	2.54	0.41
20:1K:183:TYR:CD1	46:GD:362:LYS:HE2	2.55	0.41
21:1L:825:GLU:HA	34:7R:100:GLN:HE22	1.84	0.41
31:2I:82:VAL:HG13	45:GE:299:ALA:HB2	2.02	0.41
21:2L:359:LYS:HA	34:6R:177:VAL:HB	2.03	0.41
21:2L:525:LEU:HD12	46:BN:320:ARG:H	1.85	0.41
15:2X:3:ARG:H	46:ML:75:SER:HB2	1.84	0.41
30:3H:176:LYS:HE3	45:AE:324:VAL:CG2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:3V:96:ASN:OD1	46:LB:261:PRO:HG2	2.20	0.41
15:3X:49:ILE:HD11	45:MM:282:TYR:HB2	2.02	0.41
35:4S:64:LEU:HB3	35:4S:107:GLU:HG2	2.02	0.41
35:4S:118:PHE:CD1	35:4S:122:GLN:NE2	2.88	0.41
35:4S:144:ILE:HB	35:4S:145:PRO:HD3	2.03	0.41
36:5A:85:ARG:NH1	36:5A:86:VAL:H	2.18	0.41
36:5B:72:LYS:HD2	36:5B:73:SER:O	2.21	0.41
37:5F:9:TYR:CG	37:5F:10:PRO:HD3	2.56	0.41
34:5R:291:LYS:HA	34:5R:291:LYS:HE2	2.02	0.41
35:5S:63:ASN:OD1	35:5S:65:PHE:N	2.50	0.41
39:6F:126:LYS:O	39:6F:127:TRP:HD1	2.04	0.41
34:6R:520:PRO:C	34:6R:522:VAL:H	2.23	0.41
34:6R:542:TYR:HD2	34:6R:548:PHE:HD1	1.67	0.41
34:7R:12:LEU:C	46:LB:227:HIS:CE1	2.88	0.41
34:7R:259:ASN:HB3	34:7R:350:PHE:CZ	2.56	0.41
45:AC:371:VAL:HG12	45:AC:373:ARG:N	2.34	0.41
46:AD:21:TRP:CZ3	46:AD:61:PRO:HB3	2.55	0.41
46:AF:401:GLU:N	46:AF:401:GLU:OE1	2.54	0.41
46:AH:3:GLU:H	46:AH:3:GLU:CD	2.24	0.41
46:AH:173:PRO:CD	46:AH:380:ARG:HH21	2.34	0.41
46:AJ:91:VAL:HG21	46:AJ:116:VAL:HB	2.03	0.41
45:AM:68:LEU:HD11	45:AM:118:CYS:SG	2.61	0.41
45:BE:352:LYS:HD3	46:BH:178:THR:HG23	2.02	0.41
46:BF:58:ARG:NH2	46:CD:281:TYR:OH	2.54	0.41
45:BG:79:ARG:HE	45:BG:92:LEU:HD12	1.85	0.41
45:BG:272:TYR:HD2	45:BG:275:ILE:HD11	1.86	0.41
45:BG:298:PRO:HG3	45:BG:308:ARG:HH12	1.86	0.41
45:BI:179:THR:O	46:BJ:350:LYS:HD2	2.20	0.41
46:BJ:1:MET:HE3	46:BJ:2:ARG:H	1.86	0.41
45:BM:387:VAL:HA	45:BM:390:ARG:HG2	2.02	0.41
46:BN:213:ARG:HE	46:BN:297:LYS:HE3	1.86	0.41
46:CB:221:THR:O	46:CB:225:LEU:HG	2.20	0.41
45:CC:254:GLU:OE1	45:CC:254:GLU:N	2.54	0.41
46:CD:190:HIS:CD2	46:CD:414:ASN:HD22	2.38	0.41
46:CD:379:LYS:HE3	46:CD:379:LYS:HA	2.02	0.41
46:CF:350:LYS:NZ	45:CG:181:VAL:HG12	2.36	0.41
45:CG:88:HIS:HE1	45:DG:284:GLU:OE1	2.04	0.41
46:CH:105:HIS:CE1	46:CH:150:LEU:HD12	2.55	0.41
45:CI:148:GLY:O	45:CI:152:LEU:HD23	2.21	0.41
45:CK:384:ILE:O	45:CK:387:VAL:HG22	2.21	0.41
45:CM:205:ASP:OD1	45:CM:303:ALA:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:238:CYS:SG	46:CN:239:CYS:N	2.94	0.41
45:DA:184:PRO:O	45:DA:188:ILE:HG12	2.21	0.41
45:DA:186:ASN:OD1	45:DA:187:SER:N	2.54	0.41
45:DE:256:GLN:O	46:DF:397:TRP:CE2	2.74	0.41
45:DE:324:VAL:O	45:DE:328:VAL:HG23	2.20	0.41
45:DG:235:ILE:O	45:DG:239:THR:HG22	2.20	0.41
46:DH:145:SER:O	46:DH:188:SER:OG	2.36	0.41
45:DI:133:GLN:HG2	45:DI:252:ILE:HB	2.03	0.41
46:DJ:109:GLY:HA2	46:DJ:147:MET:HE2	2.02	0.41
46:DJ:396:HIS:HA	46:DJ:399:THR:OG1	2.21	0.41
45:DK:54:SER:HB3	45:DK:64:ARG:HH11	1.85	0.41
45:DK:141:VAL:HG12	45:DK:171:ILE:O	2.20	0.41
45:DK:372:MET:O	45:DK:373:ARG:HD3	2.21	0.41
46:DL:251:ARG:O	46:DL:255:VAL:HG22	2.20	0.41
46:DL:336:LYS:HD3	46:DL:336:LYS:O	2.21	0.41
46:EB:210:ILE:HD11	46:EB:299:MET:O	2.20	0.41
45:EC:40:LYS:HZ1	45:EC:43:GLY:H	1.69	0.41
45:EC:206:ASN:HB3	45:EC:210:TYR:CZ	2.56	0.41
46:ED:31:ASP:OD2	46:ED:33:THR:OG1	2.36	0.41
45:EE:238:LEU:HD12	45:EE:238:LEU:HA	1.96	0.41
45:EG:52:PHE:HZ	45:EG:239:THR:HG21	1.85	0.41
45:EG:255:PHE:HE1	45:EG:378:ILE:HD12	1.84	0.41
45:EI:21:TRP:CZ2	45:EI:65:ALA:HB2	2.56	0.41
46:EL:147:MET:O	46:EL:151:LEU:HD23	2.20	0.41
46:EL:391:ARG:HA	46:EL:391:ARG:HD2	1.81	0.41
46:EN:260:PHE:HB2	46:EN:263:LEU:HD13	2.01	0.41
45:FA:171:ILE:HG22	45:FA:204:LEU:HB2	2.03	0.41
46:FB:317:PHE:CD1	46:FB:365:VAL:HG22	2.56	0.41
46:FD:27:GLU:OE2	46:FD:241:ARG:NH1	2.30	0.41
45:FG:186:ASN:OD1	45:FG:187:SER:N	2.54	0.41
45:FM:320:ARG:NH2	45:FM:360:PRO:HA	2.36	0.41
45:GA:91:GLN:OE1	45:GA:125:LEU:HD11	2.21	0.41
45:GA:209:ILE:H	45:GA:209:ILE:HG13	1.72	0.41
45:GA:352:LYS:NZ	46:GD:177:ASP:O	2.32	0.41
46:GB:58:ARG:NH1	46:GB:60:VAL:HB	2.35	0.41
46:GD:86:ARG:HG2	46:GD:88:ASP:H	1.86	0.41
45:GE:137:VAL:HG13	45:GE:168:GLY:HA2	2.02	0.41
46:GF:290:THR:HA	46:GF:293:MET:CG	2.36	0.41
45:GG:118:CYS:O	45:GG:122:ILE:HG12	2.20	0.41
45:GG:326:LYS:HA	45:GG:326:LYS:HD3	1.79	0.41
45:GI:141:VAL:HG12	45:GI:171:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GL:155:VAL:HG12	46:GL:164:MET:HE1	2.03	0.41
45:HA:243:ARG:HD3	45:HA:243:ARG:H	1.86	0.41
45:HC:358:GLN:OE1	45:HC:359:PRO:HD2	2.20	0.41
46:HD:409:THR:O	46:HD:412:GLU:HG3	2.20	0.41
45:HE:398:MET:CE	46:HF:346:PRO:HD2	2.47	0.41
46:HF:350:LYS:HB2	46:HF:350:LYS:HE2	1.93	0.41
45:HG:296:PHE:HE2	45:HG:335:ILE:HG21	1.84	0.41
45:HG:411:GLU:HG3	45:HG:411:GLU:O	2.20	0.41
46:HJ:202:ILE:HD11	46:HJ:268:ILE:HD11	2.02	0.41
46:HJ:229:VAL:O	46:HJ:233:MET:HG3	2.20	0.41
46:HJ:398:TYR:O	46:HJ:403:MET:HB3	2.20	0.41
45:HM:408:TYR:CD2	45:HM:418:PHE:HZ	2.38	0.41
46:HN:8:GLN:OE1	46:HN:17:GLY:HA3	2.20	0.41
46:HN:184:ASN:OD1	46:HN:185:ALA:N	2.54	0.41
46:HN:325:GLU:HA	46:HN:328:GLU:HG2	2.02	0.41
46:IB:117:LEU:HD13	46:IB:121:ARG:HH22	1.85	0.41
45:IC:91:GLN:NE2	45:IC:125:LEU:HD21	2.35	0.41
45:IC:200:VAL:HG13	45:IC:268:MET:SD	2.60	0.41
45:IE:31:GLN:HB3	45:IE:32:PRO:HD2	2.02	0.41
46:IF:391:ARG:HA	46:IF:391:ARG:HD2	1.81	0.41
46:IH:3:GLU:O	46:IH:130:LEU:HD12	2.21	0.41
45:II:18:ASN:O	45:II:22:GLU:OE1	2.39	0.41
45:II:172:TYR:CD1	45:II:173:PRO:HD2	2.53	0.41
46:IJ:3:GLU:OE2	46:IJ:127:CYS:HB2	2.21	0.41
45:IK:207:GLU:HA	45:IK:210:TYR:HD2	1.85	0.41
45:IK:224:TYR:O	45:IK:228:ASN:ND2	2.54	0.41
46:IL:226:ASN:ND2	49:IL:501:GDP:HN1	2.18	0.41
46:JB:406:MET:O	46:JB:410:GLU:OE1	2.39	0.41
45:JC:215:ARG:HB2	45:JC:215:ARG:NH1	2.35	0.41
46:JD:213:ARG:NH2	46:JD:297:LYS:O	2.54	0.41
45:JE:32:PRO:HB3	45:JE:83:TYR:CD1	2.56	0.41
45:JI:88:HIS:HB3	45:JI:91:GLN:CD	2.41	0.41
45:JK:384:ILE:O	45:JK:387:VAL:HG22	2.20	0.41
46:JL:141:GLY:HA3	49:JL:501:GDP:O3A	2.21	0.41
46:JL:173:PRO:HB3	46:JL:384:GLN:NE2	2.35	0.41
45:JM:22:GLU:OE2	45:JM:229:ARG:NH1	2.53	0.41
45:JM:308:ARG:HE	45:JM:308:ARG:HB2	1.58	0.41
45:KC:223:THR:HG23	45:KC:225:THR:H	1.85	0.41
45:KG:167:LEU:CD2	45:KG:200:VAL:HB	2.50	0.41
45:KI:296:PHE:HE2	45:KI:335:ILE:HG21	1.86	0.41
46:KJ:172:SER:HB2	46:KJ:174:LYS:NZ	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KK:204:LEU:HD23	45:KK:204:LEU:HA	1.95	0.41
46:KL:285:THR:HG22	46:KL:288:GLU:HG2	2.03	0.41
45:KM:70:LEU:HB3	45:KM:97:GLU:O	2.21	0.41
45:KM:88:HIS:NE2	45:KM:90:GLU:HB2	2.35	0.41
45:LA:98:ASP:OD1	45:LA:99:ALA:N	2.53	0.41
45:LA:390:ARG:O	45:LA:394:LYS:HG2	2.21	0.41
45:LC:100:ALA:HB1	46:LD:252:LYS:HA	2.02	0.41
46:LD:42:LEU:HA	46:LD:45:GLU:HG3	2.02	0.41
46:LD:212:PHE:HE1	46:LD:220:PRO:HG2	1.85	0.41
45:LE:256:GLN:HB2	46:LH:397:TRP:CH2	2.55	0.41
45:LG:71:GLU:HA	45:LG:72:PRO:HD3	1.87	0.41
45:LK:298:PRO:HG3	45:LK:308:ARG:HE	1.86	0.41
45:LM:121:ARG:NE	45:LM:121:ARG:HA	2.34	0.41
46:MB:395:LEU:HD23	46:MB:395:LEU:HA	1.88	0.41
45:ME:244:PHE:CZ	45:ME:358:GLN:HG2	2.55	0.41
45:MG:87:PHE:HB3	45:MG:92:LEU:HD11	2.03	0.41
45:MG:301:MET:HA	45:MG:301:MET:HE2	2.03	0.41
46:MH:289:LEU:HD23	46:MH:289:LEU:HA	1.83	0.41
45:MM:102:ASN:HD22	45:MM:105:ARG:HG3	1.86	0.41
45:MM:426:ALA:O	45:MM:430:LYS:HG2	2.20	0.41
46:MN:310:TYR:CD1	46:MN:371:SER:HB3	2.55	0.41
45:NA:171:ILE:HD13	47:NA:501:GTP:HN22	1.85	0.41
45:NA:215:ARG:HH12	45:NA:300:ASN:ND2	2.16	0.41
45:NA:306:ASP:HB3	45:NA:309:HIS:ND1	2.35	0.41
45:NA:315:CYS:O	45:NA:351:PHE:HA	2.20	0.41
46:NB:68:LEU:HD23	46:NB:97:ALA:N	2.34	0.41
46:NB:245:GLN:HB3	46:NB:246:LEU:HD12	2.02	0.41
45:NC:211:ASP:O	45:NC:214:ARG:HG3	2.20	0.41
45:NC:229:ARG:NH1	45:NC:366:GLY:HA2	2.36	0.41
46:ND:168:SER:O	46:ND:201:VAL:HA	2.20	0.41
46:ND:318:ARG:HB3	46:ND:357:PRO:CA	2.49	0.41
45:NI:306:ASP:HB3	45:NI:309:HIS:ND1	2.35	0.41
46:NJ:222:TYR:O	46:NJ:226:ASN:ND2	2.54	0.41
45:NK:226:ASN:O	45:NK:230:LEU:HD23	2.20	0.41
45:NM:80:THR:O	45:NM:84:ARG:NH2	2.44	0.41
46:OB:34:GLY:HA3	46:OB:58:ARG:HH11	1.85	0.41
45:OC:177:VAL:HG11	46:OD:324:LYS:HZ3	1.82	0.41
46:OD:396:HIS:CD2	46:OD:397:TRP:CD1	3.09	0.41
46:OH:175:VAL:HG23	46:OH:175:VAL:O	2.21	0.41
46:OH:282:ARG:HH22	46:OH:289:LEU:HD12	1.86	0.41
46:OJ:362:LYS:HA	46:OJ:362:LYS:HD3	1.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:OJ:398:TYR:O	46:OJ:403:MET:HB2	2.19	0.41
46:OL:265:PHE:HE1	46:OL:418:LEU:HD21	1.86	0.41
46:ON:68:LEU:HB2	46:ON:96:GLY:HA2	2.01	0.41
46:ON:209:ASP:OD1	46:ON:213:ARG:NH2	2.41	0.41
46:ON:253:LEU:O	46:ON:257:LEU:HD13	2.21	0.41
46:ON:269:GLY:HA2	46:ON:300:MET:HG2	2.02	0.41
46:ON:328:GLU:OE1	46:ON:329:GLN:HG3	2.21	0.41
46:ON:378:PHE:HA	46:ON:381:VAL:HG22	2.03	0.41
45:PA:179:THR:HG23	46:PB:351:SER:HB2	2.02	0.41
46:PD:9:GLY:HA2	46:PD:66:MET:O	2.21	0.41
46:PD:204:ASN:OD1	46:PD:205:GLU:N	2.54	0.41
46:PD:251:ARG:O	46:PD:255:VAL:HG22	2.20	0.41
45:PE:215:ARG:HG3	45:PE:216:ASN:OD1	2.20	0.41
46:PH:6:HIS:O	46:PH:63:ALA:HA	2.20	0.41
46:PH:68:LEU:HD23	46:PH:143:THR:OG1	2.21	0.41
46:PH:156:ARG:NH1	46:PH:159:TYR:O	2.53	0.41
46:PH:203:ASP:HB3	46:PH:205:GLU:CD	2.41	0.41
45:PI:111:GLY:O	45:PI:115:VAL:HG13	2.21	0.41
45:PI:313:MET:HE1	45:PI:346:TRP:CH2	2.56	0.41
46:PJ:372:THR:HA	46:PJ:422:TYR:CE2	2.56	0.41
45:PK:88:HIS:HE1	45:PK:90:GLU:HG2	1.85	0.41
45:PM:23:LEU:HD22	45:PM:232:ALA:HB1	2.03	0.41
46:PN:86:ARG:HE	46:PN:87:PRO:CD	2.33	0.41
46:PN:133:PHE:CD1	46:PN:155:VAL:HG11	2.56	0.41
46:QB:322:SER:HB2	45:QC:222:PRO:O	2.20	0.41
46:QD:8:GLN:NE2	46:QD:14:ASN:HA	2.35	0.41
45:QE:75:ILE:O	45:QE:79:ARG:HG2	2.21	0.41
46:QF:252:LYS:HD2	45:QG:101:ASN:ND2	2.36	0.41
46:QF:370:ASN:OD1	46:QF:422:TYR:OH	2.37	0.41
45:QG:328:VAL:O	45:QG:332:ILE:HG23	2.20	0.41
46:QH:6:HIS:HD2	46:QH:8:GLN:HB2	1.80	0.41
45:QI:74:VAL:O	45:QI:77:GLU:HG3	2.20	0.41
46:RB:19:LYS:HE2	46:RB:227:HIS:HB2	2.01	0.41
45:RC:288:VAL:HA	45:RC:291:ILE:HG22	2.02	0.41
46:RD:73:MET:CE	46:RD:92:PHE:HB3	2.49	0.41
46:RF:106:TYR:CE2	46:RF:403:MET:HB3	2.56	0.41
45:RG:10:GLY:O	45:RG:14:ILE:HG12	2.19	0.41
45:RI:36:MET:HG2	45:RI:61:HIS:HE1	1.85	0.41
45:RI:319:TYR:HB3	45:RI:323:VAL:HG21	2.02	0.41
46:RJ:210:ILE:O	46:RJ:214:THR:OG1	2.32	0.41
45:RK:261:PRO:HA	46:RL:394:PHE:HD1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RN:44:LEU:HD23	46:RN:44:LEU:HA	1.93	0.41
45:SA:68:LEU:HD21	45:SA:118:CYS:SG	2.60	0.41
45:SA:124:LYS:HE2	45:SA:124:LYS:HB2	1.88	0.41
46:SB:175:VAL:HG22	46:SB:205:GLU:HB2	2.01	0.41
45:SC:256:GLN:O	45:SC:256:GLN:HG3	2.21	0.41
46:SD:317:PHE:HE2	46:SD:326:VAL:HG13	1.86	0.41
45:SE:31:GLN:CG	45:SE:32:PRO:HD2	2.50	0.41
46:SF:287:PRO:HG3	46:SF:329:GLN:NE2	2.34	0.41
45:SG:21:TRP:CZ3	45:SG:63:PRO:HB3	2.56	0.41
46:SH:4:ILE:HG13	46:SH:132:GLY:O	2.20	0.41
45:SK:70:LEU:O	45:SK:72:PRO:HD3	2.20	0.41
46:SL:289:LEU:HD11	46:SL:363:MET:HB3	2.02	0.41
45:SM:56:THR:HA	45:TM:285:GLN:OE1	2.21	0.41
45:SM:269:LEU:HD23	45:SM:379:SER:O	2.20	0.41
45:TA:141:VAL:HG22	45:TA:187:SER:HA	2.02	0.41
45:TA:155:GLU:HG2	45:TA:197:HIS:CD2	2.55	0.41
46:TB:153:SER:O	46:TB:157:GLU:OE1	2.37	0.41
45:TC:191:THR:HA	45:TC:194:LEU:HG	2.03	0.41
46:TD:238:CYS:SG	46:TD:239:CYS:N	2.94	0.41
46:TH:326:VAL:O	46:TH:330:MET:HG2	2.20	0.41
45:TI:8:HIS:CD2	45:TI:138:PHE:HD2	2.38	0.41
46:TJ:299:MET:HE2	46:TJ:301:CYS:HB3	2.01	0.41
45:TK:101:ASN:HA	45:TK:144:GLY:N	2.34	0.41
46:TL:213:ARG:HH21	46:TL:297:LYS:HD2	1.86	0.41
46:TN:65:LEU:HD22	46:TN:90:PHE:CE1	2.55	0.41
45:UA:210:TYR:CE1	45:UA:227:LEU:HD11	2.55	0.41
46:UD:188:SER:O	46:UD:192:LEU:HD23	2.20	0.41
46:UD:316:LEU:HB2	46:UD:366:THR:CG2	2.50	0.41
45:UE:19:ALA:HA	45:UE:22:GLU:OE1	2.20	0.41
45:UE:286:LEU:HD23	45:UE:286:LEU:O	2.20	0.41
46:UF:2:ARG:HB2	46:UF:131:GLN:CD	2.41	0.41
46:UF:180:VAL:HG23	46:UF:183:TYR:CD2	2.56	0.41
46:UF:288:GLU:O	46:UF:291:GLN:HG3	2.20	0.41
45:UG:3:GLU:HG2	45:UG:64:ARG:CZ	2.51	0.41
46:UJ:55:THR:OG1	46:VJ:280:GLN:O	2.36	0.41
45:UK:248:LEU:HD21	46:UL:177:ASP:OD1	2.21	0.41
45:UK:348:PRO:HD2	46:UL:388:MET:CE	2.51	0.41
46:UL:167:PHE:CD2	46:UL:200:MET:HG2	2.55	0.41
45:UM:31:GLN:HG2	45:UM:33:ASP:OD1	2.21	0.41
45:UM:53:PHE:O	45:UM:64:ARG:NH2	2.52	0.41
45:UM:140:SER:OG	47:UM:501:GTP:O2B	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UM:336:LYS:HE3	45:UM:351:PHE:CZ	2.56	0.41
45:VC:3:GLU:N	45:VC:133:GLN:OE1	2.53	0.41
45:VE:104:ALA:HB2	45:VE:413:MET:HG2	2.01	0.41
45:VI:107:HIS:CD2	45:VI:151:SER:HB2	2.56	0.41
45:VI:222:PRO:HD2	46:VJ:324:LYS:CD	2.49	0.41
45:VI:304:LYS:HA	45:VI:304:LYS:HD2	1.91	0.41
46:VJ:232:ALA:HB1	46:VJ:268:ILE:HD12	2.02	0.41
46:VJ:270:PHE:HD2	46:VJ:273:LEU:HD21	1.84	0.41
45:VK:219:ILE:HG22	45:VK:221:ARG:H	1.86	0.41
46:VN:286:VAL:HG13	46:VN:329:GLN:HE22	1.85	0.41
46:VN:357:PRO:HB2	46:VN:361:LEU:O	2.21	0.41
45:WA:224:TYR:HD1	45:WA:227:LEU:HD12	1.85	0.41
45:WC:110:ILE:O	45:WC:113:GLU:HG3	2.20	0.41
45:WE:279:GLU:OE2	45:WE:280:LYS:HG3	2.20	0.41
46:WH:97:ALA:HA	46:WH:103:LYS:HD2	2.02	0.41
46:WJ:175:VAL:O	46:WJ:175:VAL:HG13	2.20	0.41
46:WJ:390:ARG:CZ	46:WJ:390:ARG:HA	2.51	0.41
45:WK:205:ASP:OD2	45:WK:304:LYS:HG2	2.20	0.41
46:WL:97:ALA:HB3	46:WL:143:THR:HG22	2.03	0.41
46:WL:318:ARG:HB3	46:WL:357:PRO:HA	2.03	0.41
46:WN:61:PRO:HD3	46:WN:84:LEU:HD12	2.02	0.41
45:CE:3:GLU:OE1	45:CE:64:ARG:NH1	2.54	0.41
4:0D:39:PRO:HD2	45:DC:79:ARG:HH22	1.85	0.41
11:0S:99:GLY:N	46:MB:194:GLU:OE2	2.53	0.41
1:1A:36:ARG:NH1	45:ME:77:GLU:HG2	2.35	0.41
4:1D:93:GLN:HE22	45:EG:33:ASP:HB2	1.86	0.41
11:1S:96:LEU:HD12	46:MF:410:GLU:HG3	2.01	0.41
15:1X:49:ILE:HG12	45:ME:282:TYR:CD2	2.56	0.41
30:2H:205:GLN:HE21	45:AC:81:GLY:HA2	1.84	0.41
31:2I:134:LYS:HE2	46:GD:332:ASN:HD22	1.84	0.41
20:2K:300:ILE:HB	46:GL:276:ARG:HH22	1.84	0.41
21:2L:362:LEU:HD21	34:6R:179:ARG:HH12	1.85	0.41
23:2O:185:ARG:NH2	46:VL:276:ARG:O	2.39	0.41
23:2O:228:GLN:HE21	46:UJ:55:THR:HA	1.83	0.41
10:4Q:102:ARG:HE	45:AI:430:LYS:CE	2.34	0.41
35:4S:112:THR:C	35:4S:117:LYS:HE2	2.40	0.41
36:5B:27:LYS:CE	36:5B:30:LYS:HB2	2.47	0.41
36:5C:167:LYS:NZ	45:NK:279:GLU:HA	2.35	0.41
36:5D:19:ARG:HG2	36:5D:20:LEU:N	2.28	0.41
37:5F:67:ARG:HA	37:5F:68:PRO:HD3	1.86	0.41
37:5F:199:LYS:HB2	37:5F:204:LYS:HZ2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:5H:27:ARG:O	45:OK:219:ILE:HD12	2.20	0.41
37:5H:123:ARG:O	37:5H:123:ARG:NH1	2.53	0.41
10:5Q:2:PHE:HD1	10:5Q:11:LEU:HD11	1.85	0.41
34:5R:601:ASP:HB3	34:5R:604:SER:OG	2.20	0.41
35:5S:135:ILE:HD12	35:5S:135:ILE:H	1.86	0.41
40:6G:305:THR:OG1	40:6G:306:GLU:N	2.54	0.41
40:6G:307:GLU:N	40:6G:307:GLU:OE1	2.54	0.41
34:6R:49:ASN:OD1	34:6R:50:ASP:N	2.53	0.41
34:6R:441:LYS:HA	34:6R:441:LYS:HD3	1.88	0.41
34:6R:537:LYS:HE3	34:6R:537:LYS:HB3	1.95	0.41
34:7R:219:LYS:HZ2	46:BD:78:ALA:HB3	1.85	0.41
34:7R:248:TYR:CD2	34:7R:281:ALA:HB1	2.55	0.41
34:7R:364:MET:SD	34:7R:364:MET:N	2.91	0.41
34:7R:478:ASN:HD21	34:7R:480:ILE:HB	1.86	0.41
34:7R:511:TYR:HB2	45:EA:39:ASP:HB3	2.02	0.41
45:AA:89:PRO:HD2	45:BA:280:LYS:NZ	2.34	0.41
45:AA:216:ASN:HB3	45:AA:275:ILE:O	2.20	0.41
46:AB:19:LYS:HA	46:AB:22:GLU:HG3	2.02	0.41
45:AC:152:LEU:HD12	45:AC:152:LEU:HA	1.87	0.41
45:AE:399:TYR:OH	45:AE:402:ARG:NH2	2.54	0.41
45:AG:241:SER:OG	45:AG:250:VAL:O	2.38	0.41
46:AH:391:ARG:HD2	46:AH:391:ARG:HA	1.78	0.41
46:AJ:210:ILE:O	46:AJ:214:THR:OG1	2.33	0.41
45:AK:187:SER:O	45:AK:191:THR:HG23	2.21	0.41
46:AL:306:ARG:HB2	46:AL:340:TYR:CZ	2.55	0.41
46:AN:11:GLN:O	46:AN:15:GLN:HG2	2.21	0.41
45:BA:434:GLU:O	45:BA:437:ILE:HG12	2.21	0.41
46:BB:16:ILE:HD12	46:BB:229:VAL:HG11	2.02	0.41
46:BD:113:ILE:HA	46:BD:116:VAL:HG12	2.03	0.41
46:BD:143:THR:OG1	46:BD:147:MET:HE1	2.21	0.41
45:BG:3:GLU:OE2	45:BG:130:THR:N	2.50	0.41
46:BH:210:ILE:O	46:BH:214:THR:HG22	2.21	0.41
46:BH:248:SER:HA	46:BH:252:LYS:CE	2.42	0.41
45:BI:32:PRO:HB3	45:BI:83:TYR:HE1	1.86	0.41
45:BK:251:ASP:OD1	45:BK:254:GLU:HG3	2.21	0.41
45:BK:258:ASN:ND2	45:BK:352:LYS:HD2	2.35	0.41
45:BK:434:GLU:O	45:BK:437:ILE:HG12	2.20	0.41
46:BL:54:ALA:HB3	46:BL:58:ARG:HG2	2.03	0.41
46:BL:186:THR:HA	46:BL:189:VAL:HG12	2.02	0.41
45:BM:176:GLN:NE2	45:BM:177:VAL:HG23	2.36	0.41
45:BM:315:CYS:O	45:BM:351:PHE:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:BN:58:ARG:NE	46:CL:281:TYR:HE2	2.18	0.41
45:CC:107:HIS:CD2	45:CC:152:LEU:HG	2.56	0.41
46:CD:130:LEU:HB3	46:CD:162:ARG:NH2	2.35	0.41
46:CH:91:VAL:HG21	46:CH:116:VAL:HB	2.02	0.41
45:CI:115:VAL:O	45:CI:119:LEU:HD23	2.21	0.41
45:CI:330:ALA:O	45:CI:334:THR:HG23	2.20	0.41
45:CI:387:VAL:HG23	45:CI:388:PHE:HD1	1.85	0.41
45:CK:35:GLN:NE2	45:CK:60:LYS:HB3	2.35	0.41
45:CK:171:ILE:O	45:CK:171:ILE:HG13	2.19	0.41
45:CK:255:PHE:O	45:CK:259:LEU:HB2	2.21	0.41
45:DA:174:SER:HB2	45:DA:177:VAL:O	2.20	0.41
46:DB:213:ARG:NH2	46:DB:297:LYS:HB3	2.35	0.41
46:DB:251:ARG:HD3	45:DC:105:ARG:NH1	2.35	0.41
45:DE:119:LEU:O	45:DE:123:ARG:HG2	2.20	0.41
45:DE:326:LYS:HZ3	46:DF:219:THR:HA	1.85	0.41
46:DH:102:ALA:HB1	46:DH:401:GLU:HB2	2.03	0.41
45:DI:107:HIS:ND1	45:DI:107:HIS:O	2.53	0.41
45:DI:259:LEU:HD21	45:DI:316:SER:HB2	2.03	0.41
45:DI:331:SER:O	45:DI:335:ILE:HG12	2.20	0.41
45:DK:116:ASP:O	45:DK:119:LEU:HG	2.21	0.41
45:DM:76:ASP:HA	45:DM:79:ARG:HG2	2.01	0.41
46:DN:69:GLU:HA	46:DN:70:PRO:HD3	1.87	0.41
45:EC:11:GLN:HE21	47:EC:501:GTP:PB	2.43	0.41
45:EC:75:ILE:O	45:EC:79:ARG:HG2	2.20	0.41
45:EC:191:THR:HA	45:EC:194:LEU:HG	2.03	0.41
46:EF:21:TRP:CZ3	46:EF:61:PRO:HB3	2.55	0.41
46:EF:319:GLY:HA3	46:EF:362:LYS:O	2.21	0.41
46:EH:11:GLN:HB3	46:EH:72:THR:HG21	2.02	0.41
46:EH:139:LEU:HD13	46:EH:168:SER:HB3	2.01	0.41
45:EK:102:ASN:ND2	45:EK:105:ARG:HG3	2.35	0.41
45:EM:194:LEU:O	45:EM:198:THR:HG22	2.21	0.41
46:FB:391:ARG:HA	46:FB:391:ARG:HD2	1.78	0.41
45:FC:8:HIS:ND1	45:FC:17:GLY:HA3	2.36	0.41
45:FC:81:GLY:O	45:FC:84:ARG:NH1	2.50	0.41
45:FE:88:HIS:HE1	45:FE:90:GLU:OE2	2.03	0.41
46:FF:287:PRO:O	46:FF:290:THR:HG22	2.21	0.41
46:FF:317:PHE:CD1	46:FF:365:VAL:HG22	2.55	0.41
45:FG:384:ILE:O	45:FG:387:VAL:HG12	2.21	0.41
45:FK:267:PHE:CD2	45:FK:388:PHE:HZ	2.39	0.41
45:FM:68:LEU:HD21	45:FM:118:CYS:SG	2.60	0.41
45:GA:3:GLU:HG2	45:GA:64:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:GA:306:ASP:HB3	45:GA:309:HIS:ND1	2.35	0.41
46:GB:6:HIS:O	46:GB:63:ALA:HA	2.21	0.41
46:GB:214:THR:O	46:GB:216:LYS:NZ	2.53	0.41
45:GC:21:TRP:HZ2	45:GC:65:ALA:HB2	1.83	0.41
46:GD:398:TYR:O	46:GD:403:MET:HB3	2.21	0.41
45:GE:245:ASP:OD1	45:GE:246:GLY:N	2.54	0.41
46:GF:378:PHE:CD1	46:GF:415:MET:HE1	2.56	0.41
45:GG:222:PRO:HD2	46:GH:324:LYS:HG2	2.02	0.41
45:GI:244:PHE:CE1	45:GI:358:GLN:HG2	2.56	0.41
46:GJ:4:ILE:HG13	46:GJ:132:GLY:O	2.20	0.41
45:GK:408:TYR:HB3	45:GK:413:MET:CE	2.51	0.41
46:GL:111:GLU:N	46:GL:111:GLU:OE2	2.54	0.41
46:GN:32:PRO:HG3	46:GN:81:PHE:CZ	2.56	0.41
46:GN:105:HIS:CE1	46:GN:150:LEU:HD12	2.56	0.41
45:HA:18:ASN:O	45:HA:22:GLU:OE1	2.37	0.41
45:HA:171:ILE:O	45:HA:171:ILE:HG13	2.21	0.41
46:HB:313:ALA:HB1	46:HB:367:PHE:HE1	1.85	0.41
45:HC:122:ILE:HD13	45:HC:157:LEU:HD21	2.03	0.41
45:HC:398:MET:SD	46:HD:345:ILE:HD12	2.60	0.41
45:HE:100:ALA:O	46:HF:255:VAL:HG11	2.21	0.41
45:HG:434:GLU:O	45:HG:437:ILE:HG12	2.21	0.41
46:HH:40:SER:H	46:HH:43:GLN:NE2	2.19	0.41
46:HH:226:ASN:ND2	49:HH:501:GDP:HN1	2.07	0.41
45:HK:3:GLU:HG3	45:HK:129:CYS:HB3	2.03	0.41
45:HK:71:GLU:HA	45:HK:72:PRO:HD3	1.88	0.41
46:HN:9:GLY:HA2	46:HN:66:MET:O	2.21	0.41
46:HN:198:GLU:HB3	46:HN:200:MET:HE3	2.01	0.41
45:IA:352:LYS:HZ2	46:ID:179:VAL:HG12	1.86	0.41
46:ID:165:GLU:HG2	46:ID:167:PHE:CE2	2.56	0.41
45:IE:21:TRP:CZ2	45:IE:65:ALA:HB2	2.55	0.41
45:IE:156:ARG:HA	45:IE:156:ARG:HD2	1.80	0.41
45:IE:387:VAL:O	45:IE:391:LEU:HD23	2.20	0.41
45:IG:239:THR:HG23	45:IG:243:ARG:HH21	1.85	0.41
45:IG:256:GLN:HB2	46:IJ:397:TRP:CH2	2.39	0.41
45:IG:329:ASN:HB3	46:IJ:175:VAL:HG12	2.03	0.41
45:IK:297:GLU:HB3	45:IK:300:ASN:ND2	2.36	0.41
45:IK:352:LYS:HE2	46:IN:178:THR:HA	2.03	0.41
46:IL:310:TYR:O	46:IL:342:VAL:HG12	2.20	0.41
45:IM:175:PRO:HG3	45:IM:390:ARG:NH1	2.36	0.41
46:IN:19:LYS:HE2	46:IN:223:GLY:O	2.20	0.41
45:JA:332:ILE:HD11	45:JA:351:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JA:338:LYS:HZ2	45:JA:339:ARG:N	2.19	0.41
46:JB:250:LEU:H	46:JB:250:LEU:HD12	1.86	0.41
45:JC:66:VAL:HG11	45:JC:122:ILE:HD11	2.02	0.41
45:JC:118:CYS:SG	45:JC:153:LEU:HD11	2.61	0.41
46:JD:115:SER:O	46:JD:119:VAL:HG23	2.21	0.41
45:JE:133:GLN:HB3	45:JE:252:ILE:HD11	2.01	0.41
45:JG:207:GLU:OE2	45:JG:304:LYS:HD3	2.21	0.41
46:JH:146:GLY:O	46:JH:149:THR:HG22	2.21	0.41
45:JI:421:ALA:O	45:JI:425:LEU:HD23	2.20	0.41
46:JJ:21:TRP:CZ3	46:JJ:61:PRO:HB3	2.56	0.41
46:JL:69:GLU:HA	46:JL:70:PRO:HD3	1.93	0.41
46:JN:391:ARG:HA	46:JN:391:ARG:HD2	1.85	0.41
45:KA:287:SER:O	45:KA:291:ILE:HG23	2.21	0.41
45:KA:318:MET:HB2	45:KA:376:CYS:HB3	2.03	0.41
46:KB:87:PRO:HA	46:KB:90:PHE:CD2	2.56	0.41
45:KE:245:ASP:N	45:KE:245:ASP:OD1	2.54	0.41
45:KE:384:ILE:O	45:KE:387:VAL:HG22	2.20	0.41
46:KH:3:GLU:HA	46:KH:49:VAL:HG23	2.02	0.41
46:KH:238:CYS:SG	46:KH:318:ARG:HD3	2.60	0.41
46:KH:407:GLU:OE1	46:KH:407:GLU:N	2.44	0.41
46:KJ:203:ASP:OD1	46:KJ:204:ASN:N	2.54	0.41
46:KJ:207:LEU:HD13	46:KJ:225:LEU:HB3	2.02	0.41
45:KK:102:ASN:ND2	45:KK:105:ARG:HG3	2.35	0.41
45:KK:149:LEU:O	45:KK:153:LEU:HD23	2.19	0.41
45:KK:326:LYS:HZ1	46:KN:220:PRO:C	2.23	0.41
45:KK:420:GLU:O	45:KK:423:GLU:HG3	2.21	0.41
46:KL:68:LEU:HD13	46:KL:112:LEU:HD13	2.02	0.41
46:KL:221:THR:OG1	46:KL:222:TYR:N	2.53	0.41
45:KM:175:PRO:HD2	45:KM:207:GLU:OE2	2.20	0.41
45:KM:324:VAL:O	45:KM:328:VAL:HG23	2.21	0.41
46:LB:310:TYR:HD2	46:LB:371:SER:HB2	1.86	0.41
46:LD:396:HIS:HA	46:LD:399:THR:OG1	2.21	0.41
45:LE:320:ARG:HD3	45:LE:360:PRO:HG3	2.01	0.41
46:LF:73:MET:SD	46:LF:90:PHE:HD1	2.43	0.41
45:LG:395:PHE:CD2	45:LG:422:ARG:HD3	2.56	0.41
45:LI:224:TYR:HD1	45:LI:227:LEU:HD12	1.85	0.41
46:LJ:156:ARG:HD2	46:LJ:156:ARG:HA	1.87	0.41
46:LL:317:PHE:HB3	46:LL:321:MET:HE1	2.03	0.41
45:LM:41:THR:HG21	45:LM:45:GLY:O	2.21	0.41
46:MB:226:ASN:HA	46:MB:229:VAL:HG12	2.03	0.41
46:MF:31:ASP:OD2	46:MF:33:THR:OG1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:MG:11:GLN:HG3	45:MG:74:VAL:HG11	2.02	0.41
46:MH:68:LEU:HD23	46:MH:112:LEU:HD13	2.03	0.41
46:MH:200:MET:CE	46:MH:268:ILE:HD13	2.50	0.41
46:MH:311:LEU:HD12	46:MH:311:LEU:HA	1.86	0.41
45:MK:21:TRP:CH2	45:MK:63:PRO:HB3	2.55	0.41
46:ML:178:THR:HG22	46:ML:180:VAL:H	1.85	0.41
45:NA:77:GLU:OE2	46:NB:243:PRO:HB3	2.21	0.41
45:NA:141:VAL:HG12	45:NA:171:ILE:O	2.20	0.41
46:NB:162:ARG:HG3	46:NB:163:ILE:H	1.84	0.41
46:NB:252:LYS:O	46:NB:256:ASN:ND2	2.53	0.41
45:NC:346:TRP:CD1	46:NF:391:ARG:HG3	2.56	0.41
46:ND:294:PHE:CD2	46:ND:333:VAL:HG11	2.56	0.41
46:ND:306:ARG:HG2	46:ND:340:TYR:CE2	2.56	0.41
45:NE:348:PRO:HG2	46:NH:388:MET:HE3	2.01	0.41
46:NF:286:VAL:HG21	46:NF:325:GLU:HB3	2.03	0.41
45:NG:139:ASN:N	45:NG:139:ASN:OD1	2.54	0.41
45:NG:222:PRO:HG2	46:NH:324:LYS:HD3	2.01	0.41
46:NH:58:ARG:NH2	46:OH:281:TYR:HD1	2.18	0.41
45:NI:108:TYR:HA	45:NI:112:LYS:NZ	2.35	0.41
45:NI:209:ILE:CD1	45:NI:227:LEU:HD22	2.50	0.41
46:NJ:68:LEU:HD12	46:NJ:93:GLY:HA3	2.02	0.41
46:NL:178:THR:HB	46:NL:181:GLU:CG	2.51	0.41
45:NM:175:PRO:HA	45:NM:390:ARG:CZ	2.51	0.41
45:NM:224:TYR:O	45:NM:227:LEU:HG	2.20	0.41
45:OA:88:HIS:CG	45:PA:280:LYS:HE2	2.55	0.41
45:OA:196:GLU:N	45:OA:196:GLU:OE1	2.50	0.41
45:OC:183:GLU:N	45:OC:184:PRO:HD2	2.35	0.41
46:OF:113:ILE:O	46:OF:117:LEU:HD23	2.20	0.41
46:OF:325:GLU:OE2	46:OF:326:VAL:HG23	2.20	0.41
46:OH:113:ILE:HB	46:OH:117:LEU:HD23	2.02	0.41
46:OH:165:GLU:HA	46:OH:198:GLU:O	2.21	0.41
45:OM:231:ILE:O	45:OM:235:ILE:HG12	2.20	0.41
45:PA:346:TRP:CD1	46:PD:391:ARG:HG3	2.55	0.41
46:PB:101:TRP:HB3	46:PB:398:TYR:HE1	1.86	0.41
45:PC:143:GLY:HA3	47:PD:501:GTP:O2B	2.20	0.41
46:PD:19:LYS:HE2	46:PD:227:HIS:CG	2.56	0.41
45:PE:103:PHE:N	45:PE:408:TYR:HE1	2.17	0.41
45:PE:171:ILE:HG22	45:PE:204:LEU:HB2	2.02	0.41
45:PE:174:SER:HB3	45:PE:207:GLU:HB2	2.02	0.41
45:PG:164:LYS:HD3	45:PG:164:LYS:HA	1.81	0.41
45:PK:217:LEU:HD13	45:PK:277:SER:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PL:45:GLU:OE2	46:PL:45:GLU:N	2.37	0.41
46:PL:133:PHE:HB2	46:PL:164:MET:HE2	2.02	0.41
46:PL:186:THR:HA	46:PL:189:VAL:HG12	2.02	0.41
46:QH:55:THR:HG23	46:RH:283:ALA:HA	2.03	0.41
46:QH:134:GLN:O	46:QH:135:ILE:HD13	2.20	0.41
45:QI:8:HIS:HB2	45:QI:67:PHE:HD1	1.84	0.41
45:QI:408:TYR:HB3	45:QI:413:MET:HE2	2.01	0.41
46:QJ:304:ASP:CG	46:QJ:307:HIS:HD1	2.24	0.41
46:QL:324:LYS:O	46:QL:327:ASP:OD1	2.39	0.41
45:QM:216:ASN:HB3	45:QM:275:ILE:O	2.20	0.41
46:RB:207:LEU:HB3	46:RB:225:LEU:HD22	2.01	0.41
45:RC:136:LEU:HD11	45:RC:138:PHE:HE2	1.85	0.41
45:RC:258:ASN:O	46:RD:179:VAL:HG21	2.21	0.41
46:RD:391:ARG:HA	46:RD:391:ARG:HD2	1.90	0.41
45:RE:284:GLU:OE1	45:RE:284:GLU:N	2.53	0.41
45:RG:171:ILE:HD12	47:RG:501:GTP:H1'	2.02	0.41
45:RG:319:TYR:CE1	45:RG:328:VAL:HG22	2.55	0.41
46:RH:100:ASN:HB3	46:RH:103:LYS:HB3	2.01	0.41
45:RI:289:ALA:O	45:RI:292:THR:HG22	2.21	0.41
45:RK:258:ASN:HD21	46:RL:178:THR:HG23	1.85	0.41
45:RK:424:ASP:O	45:RK:428:LEU:HD23	2.21	0.41
46:RL:24:ILE:HD13	46:RL:27:GLU:OE2	2.20	0.41
45:RM:377:MET:SD	45:RM:379:SER:HB3	2.60	0.41
46:SB:268:ILE:HG22	46:SB:368:VAL:HA	2.03	0.41
46:SD:6:HIS:CE1	46:SD:8:GLN:HE21	2.38	0.41
46:SD:24:ILE:HG13	46:SD:28:HIS:HD2	1.86	0.41
46:SD:204:ASN:N	46:SD:204:ASN:ND2	2.68	0.41
46:SD:327:ASP:O	46:SD:330:MET:HG3	2.20	0.41
46:SF:414:ASN:O	46:SF:418:LEU:HD23	2.20	0.41
46:SH:152:ILE:HA	46:SH:155:VAL:HG22	2.02	0.41
45:SI:229:ARG:NH1	45:SI:366:GLY:HA2	2.34	0.41
46:SJ:215:LEU:CD2	46:SJ:217:LEU:HB2	2.50	0.41
46:SL:414:ASN:O	46:SL:418:LEU:HD23	2.20	0.41
46:TB:406:MET:O	46:TB:410:GLU:HG3	2.20	0.41
45:TC:67:PHE:HB2	45:TC:92:LEU:HD23	2.01	0.41
45:TC:205:ASP:OD2	45:TC:304:LYS:N	2.38	0.41
46:TD:143:THR:HG23	46:TD:144:GLY:H	1.85	0.41
46:TF:324:LYS:HB3	45:TG:210:TYR:CE2	2.55	0.41
45:TG:326:LYS:NZ	46:TH:219:THR:HA	2.32	0.41
45:TI:116:ASP:O	45:TI:119:LEU:HG	2.20	0.41
45:TI:174:SER:OG	45:TI:207:GLU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TI:245:ASP:N	45:TI:245:ASP:OD1	2.53	0.41
45:TI:305:CYS:SG	45:TI:306:ASP:N	2.93	0.41
46:TJ:380:ARG:HA	46:TJ:383:GLU:OE1	2.21	0.41
45:TK:215:ARG:HD2	45:TK:215:ARG:HA	1.87	0.41
45:TK:326:LYS:HD2	46:TL:220:PRO:HB2	2.02	0.41
45:TM:221:ARG:HA	45:TM:221:ARG:CZ	2.50	0.41
45:TM:229:ARG:HH12	45:TM:363:VAL:CG1	2.34	0.41
45:UA:141:VAL:HG22	45:UA:187:SER:HA	2.03	0.41
45:UA:141:VAL:HG11	45:UA:172:TYR:HD1	1.86	0.41
46:UB:361:LEU:HD23	46:UB:361:LEU:HA	1.90	0.41
45:UC:68:LEU:HD13	45:UC:93:ILE:HB	2.03	0.41
45:UC:80:THR:HA	45:UC:84:ARG:NH2	2.36	0.41
45:UC:425:LEU:HA	45:UC:425:LEU:HD23	1.81	0.41
46:UD:20:PHE:O	46:UD:24:ILE:HG12	2.21	0.41
46:UD:204:ASN:ND2	49:UD:501:GDP:O2'	2.52	0.41
45:UE:9:VAL:HG13	45:UE:139:ASN:HB3	2.02	0.41
45:UE:98:ASP:OD1	45:UE:99:ALA:N	2.54	0.41
45:UE:206:ASN:O	45:UE:209:ILE:HG22	2.21	0.41
46:UF:246:LEU:HD22	45:UG:179:THR:HG21	2.03	0.41
45:UM:88:HIS:ND1	45:UM:90:GLU:HG3	2.35	0.41
45:VA:319:TYR:CB	45:VA:323:VAL:HG11	2.51	0.41
46:VB:83:GLN:NE2	46:VB:84:LEU:HD22	2.35	0.41
46:VB:377:MET:SD	46:VB:377:MET:N	2.92	0.41
46:VD:121:ARG:O	46:VD:125:GLU:OE1	2.39	0.41
46:VF:267:MET:CE	46:VF:301:CYS:HB2	2.49	0.41
46:VL:3:GLU:H	46:VL:3:GLU:CD	2.23	0.41
45:VM:115:VAL:HG22	45:VM:119:LEU:HD23	2.03	0.41
46:VN:406:MET:O	46:VN:410:GLU:HG2	2.21	0.41
45:WA:268:MET:HE1	45:WA:378:ILE:HG22	2.02	0.41
45:WC:73:THR:HG22	46:WD:46:ARG:HH12	1.85	0.41
46:WD:294:PHE:HE1	46:WD:367:PHE:CE1	2.38	0.41
46:WF:261:PRO:O	46:WF:264:HIS:HD2	2.04	0.41
45:WG:21:TRP:CZ2	45:WG:65:ALA:HB2	2.56	0.41
46:WH:73:MET:O	46:WH:77:ARG:HG3	2.21	0.41
45:WI:221:ARG:CA	46:WJ:324:LYS:HZ1	2.23	0.41
45:WK:88:HIS:ND1	45:WK:90:GLU:HG3	2.35	0.41
45:WK:311:LYS:N	45:WK:382:THR:OG1	2.54	0.41
45:WM:8:HIS:HB2	45:WM:67:PHE:HD2	1.83	0.41
45:DC:3:GLU:N	45:DC:133:GLN:OE1	2.52	0.41
45:DC:182:VAL:HG22	45:DC:185:TYR:HB2	2.02	0.41
45:DC:196:GLU:HG2	45:DC:197:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:0S:97:ARG:HH21	46:MB:262:ARG:NH1	2.18	0.41
14:0V:69:SER:O	46:LN:121:ARG:HD3	2.21	0.41
22:1M:40:LYS:NZ	45:JC:279:GLU:OE2	2.53	0.41
23:1O:163:LYS:HZ3	45:UE:278:ALA:HB3	1.86	0.41
24:1P:362:LYS:NZ	46:TB:357:PRO:O	2.53	0.41
27:2C:25:LYS:HZ2	45:LI:364:PRO:N	2.18	0.41
4:2D:216:GLN:OE1	34:5R:431:ILE:HD12	2.20	0.41
14:2V:113:ARG:HE	45:LE:263:PRO:HB2	1.86	0.41
14:2V:122:LYS:HE2	46:LH:390:ARG:NH2	2.36	0.41
23:3O:296:LYS:HG2	46:UL:360:GLY:HA2	2.02	0.41
23:3O:343:ALA:HB2	46:UJ:359:LYS:HZ2	1.84	0.41
34:4R:248:TYR:CD1	34:4R:281:ALA:HB1	2.56	0.41
35:4S:69:TYR:CD2	35:4S:116:TYR:HE1	2.39	0.41
36:5A:78:SER:C	46:NB:320:ARG:HH21	2.24	0.41
36:5C:32:ALA:HB2	36:5C:46:ILE:O	2.20	0.41
37:5E:154:TYR:CE2	37:5F:11:TRP:CE2	3.08	0.41
37:5F:19:LEU:HA	37:5F:22:LYS:HE2	2.02	0.41
37:5G:88:HIS:ND1	37:5G:89:LYS:HE3	2.35	0.41
34:5R:29:GLN:HA	46:LJ:74:ASP:OD2	2.20	0.41
34:5R:213:LYS:HD2	34:5R:213:LYS:HA	1.86	0.41
34:5R:553:ILE:HG13	34:5R:606:PHE:CE1	2.54	0.41
39:6F:19:SER:O	39:6F:20:THR:HB	2.20	0.41
40:6G:241:LYS:CE	46:VD:336:LYS:HD2	2.47	0.41
34:6R:245:LEU:HD11	34:6R:249:LEU:HD12	2.03	0.41
34:6R:456:TYR:OH	45:EM:46:ASP:HB3	2.21	0.41
34:7R:296:GLY:HA3	46:DB:276:ARG:HB3	2.03	0.41
44:8R:199:ALA:HA	44:8R:202:TYR:CE1	2.55	0.41
45:AA:88:HIS:HA	45:BA:280:LYS:HZ3	1.85	0.41
45:AA:283:HIS:ND1	45:MA:89:PRO:HD3	2.36	0.41
46:AB:1:MET:O	46:AB:2:ARG:HG2	2.20	0.41
45:AC:47:ASP:HB2	45:AC:50:ASN:HB2	2.03	0.41
45:AC:88:HIS:ND1	45:AC:89:PRO:HD2	2.35	0.41
45:AC:275:ILE:HG23	45:AC:368:LEU:HD11	2.03	0.41
45:AC:387:VAL:HA	45:AC:390:ARG:HG2	2.01	0.41
46:AD:215:LEU:HB3	46:AD:217:LEU:HD23	2.02	0.41
46:AF:288:GLU:O	46:AF:291:GLN:HG3	2.21	0.41
46:AF:360:GLY:O	46:AF:361:LEU:HD22	2.21	0.41
46:AH:3:GLU:HG3	46:AH:62:ARG:NH1	2.36	0.41
45:AI:176:GLN:O	46:AJ:347:ASN:ND2	2.53	0.41
45:AI:222:PRO:HD2	46:AJ:324:LYS:HD2	2.02	0.41
46:AJ:281:TYR:CD1	46:MJ:86:ARG:HG3	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AL:258:ILE:HD11	46:AL:266:PHE:HZ	1.86	0.41
45:AM:174:SER:HB2	45:AM:177:VAL:HB	2.02	0.41
45:BA:221:ARG:CZ	45:BA:221:ARG:HA	2.50	0.41
46:BB:319:GLY:HA3	46:BB:363:MET:SD	2.61	0.41
46:BD:139:LEU:HD13	46:BD:168:SER:HB3	2.01	0.41
45:BE:141:VAL:HG11	45:BE:172:TYR:CD1	2.56	0.41
46:BF:376:GLU:OE1	46:BF:380:ARG:HD2	2.21	0.41
46:BH:178:THR:HG22	46:BH:179:VAL:N	2.36	0.41
45:BK:138:PHE:CE2	45:BK:169:PHE:HD2	2.39	0.41
46:BL:21:TRP:CZ3	46:BL:61:PRO:HB3	2.56	0.41
45:BM:96:LYS:HE3	45:BM:96:LYS:HB3	1.95	0.41
46:BN:69:GLU:HA	46:BN:70:PRO:HD3	1.85	0.41
45:CA:434:GLU:O	45:CA:437:ILE:HG12	2.20	0.41
46:CB:178:THR:HG22	46:CB:180:VAL:H	1.85	0.41
46:CB:324:LYS:HZ1	45:CC:221:ARG:HD3	1.86	0.41
46:CD:208:TYR:CE2	46:CD:225:LEU:HD11	2.56	0.41
46:CF:54:ALA:HB1	46:DF:280:GLN:O	2.21	0.41
46:CF:69:GLU:OE2	46:CF:72:THR:HG23	2.21	0.41
46:CF:266:PHE:HE1	46:CF:370:ASN:HB2	1.85	0.41
45:CG:60:LYS:HG2	45:CG:61:HIS:N	2.36	0.41
46:CH:149:THR:HA	46:CH:152:ILE:HD12	2.02	0.41
46:CJ:346:PRO:HD2	45:CK:398:MET:SD	2.61	0.41
46:CL:70:PRO:HA	46:CL:73:MET:HE3	2.03	0.41
46:CL:350:LYS:HA	46:CL:350:LYS:HE2	2.03	0.41
45:CM:429:GLU:O	45:CM:433:GLU:OE1	2.37	0.41
46:CN:145:SER:HB2	46:CN:188:SER:HB3	2.02	0.41
45:DE:123:ARG:HA	45:DE:123:ARG:HH11	1.86	0.41
46:DH:21:TRP:CZ3	46:DH:61:PRO:HB3	2.55	0.41
46:DH:165:GLU:HB2	46:DH:198:GLU:OE2	2.20	0.41
46:DH:213:ARG:HG3	46:DH:214:THR:HG23	2.01	0.41
45:DI:20:CYS:SG	45:DI:21:TRP:HD1	2.44	0.41
45:DK:74:VAL:HG23	45:DK:75:ILE:HD12	2.02	0.41
46:DL:213:ARG:HH12	46:DL:297:LYS:HB3	1.84	0.41
45:DM:152:LEU:HD13	45:DM:155:GLU:OE2	2.21	0.41
45:DM:207:GLU:OE1	45:DM:207:GLU:N	2.37	0.41
45:DM:419:SER:O	45:DM:422:ARG:N	2.53	0.41
45:EA:68:LEU:HD21	45:EA:118:CYS:SG	2.61	0.41
45:EC:133:GLN:HB3	45:EC:252:ILE:HG21	2.03	0.41
45:EC:338:LYS:HA	45:EC:338:LYS:HD2	1.85	0.41
46:ED:6:HIS:O	46:ED:7:ILE:HD13	2.20	0.41
46:ED:69:GLU:HA	46:ED:70:PRO:HD3	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ED:201:VAL:HG12	46:ED:266:PHE:O	2.20	0.41
46:ED:254:ALA:O	46:ED:258:ILE:HG12	2.20	0.41
45:EE:434:GLU:O	45:EE:437:ILE:HG22	2.20	0.41
46:EF:258:ILE:HG13	46:EF:258:ILE:O	2.19	0.41
46:EF:324:LYS:O	46:EF:327:ASP:N	2.53	0.41
46:EH:16:ILE:HD13	46:EH:226:ASN:OD1	2.21	0.41
45:EI:338:LYS:HE3	45:EI:340:THR:HG22	2.02	0.41
46:EL:12:CYS:HA	46:EL:15:GLN:NE2	2.36	0.41
45:EM:136:LEU:HD23	45:EM:167:LEU:HB2	2.03	0.41
46:FB:11:GLN:O	46:FB:15:GLN:HG2	2.21	0.41
46:FB:217:LEU:HD23	46:FB:217:LEU:H	1.85	0.41
46:FB:345:ILE:O	46:FB:345:ILE:HG23	2.20	0.41
46:FD:139:LEU:HD13	46:FD:168:SER:HB3	2.03	0.41
46:FD:208:TYR:CE2	46:FD:225:LEU:HD11	2.55	0.41
45:FE:185:TYR:HE1	45:FE:398:MET:HB3	1.86	0.41
46:FF:310:TYR:HB2	46:FF:341:PHE:HD2	1.86	0.41
46:FH:69:GLU:HA	46:FH:70:PRO:HD3	1.91	0.41
46:FL:116:VAL:HA	46:FL:119:VAL:HG12	2.03	0.41
45:FM:217:LEU:HD21	45:FM:368:LEU:HD22	2.02	0.41
46:FN:174:LYS:HB3	46:FN:205:GLU:OE1	2.21	0.41
45:GA:326:LYS:HD2	45:GA:326:LYS:HA	1.92	0.41
46:GB:327:ASP:HA	46:GB:330:MET:HE3	2.03	0.41
45:GE:268:MET:HG3	45:GE:380:ASN:HB2	2.03	0.41
45:GE:434:GLU:O	45:GE:437:ILE:HG12	2.21	0.41
45:GI:434:GLU:O	45:GI:437:ILE:HG12	2.21	0.41
45:GK:229:ARG:CZ	45:GK:366:GLY:HA2	2.51	0.41
45:GK:336:LYS:HA	45:GK:336:LYS:HD3	1.89	0.41
45:GK:343:PHE:CZ	45:GK:351:PHE:HE2	2.39	0.41
45:GM:268:MET:HB2	45:GM:379:SER:O	2.21	0.41
46:HB:273:LEU:N	46:HB:292:GLN:HE22	2.15	0.41
45:HC:216:ASN:HB3	45:HC:275:ILE:O	2.21	0.41
45:HC:313:MET:HB3	45:HC:380:ASN:O	2.21	0.41
46:HD:3:GLU:O	46:HD:130:LEU:HD12	2.21	0.41
46:HD:97:ALA:O	46:HD:103:LYS:HD2	2.20	0.41
46:HD:186:THR:OG1	46:HD:415:MET:SD	2.58	0.41
46:HD:288:GLU:O	46:HD:291:GLN:HG3	2.21	0.41
46:HH:396:HIS:O	46:HH:399:THR:OG1	2.30	0.41
45:HK:331:SER:O	45:HK:335:ILE:HG12	2.21	0.41
45:HM:328:VAL:HG11	45:HM:353:VAL:HG21	2.02	0.41
46:HN:287:PRO:O	46:HN:290:THR:HG22	2.21	0.41
45:IA:9:VAL:HG21	45:IA:149:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IA:350:GLY:HA2	46:ID:179:VAL:HG23	2.03	0.41
45:IA:386:GLU:OE2	45:IA:386:GLU:N	2.54	0.41
45:IC:33:ASP:HA	45:IC:85:GLN:HE21	1.85	0.41
45:IC:337:THR:O	45:IC:339:ARG:NE	2.54	0.41
45:IC:387:VAL:HA	45:IC:390:ARG:HG2	2.03	0.41
45:IE:3:GLU:OE2	45:IE:129:CYS:HB3	2.21	0.41
45:IE:141:VAL:HG22	45:IE:187:SER:HA	2.02	0.41
46:IF:9:GLY:HA2	46:IF:66:MET:O	2.21	0.41
46:IJ:66:MET:HA	46:IJ:91:VAL:O	2.20	0.41
46:IJ:217:LEU:HD11	46:IJ:220:PRO:HB3	2.03	0.41
46:IJ:316:LEU:HB2	46:IJ:366:THR:CG2	2.51	0.41
46:IJ:316:LEU:HB2	46:IJ:366:THR:HG22	2.02	0.41
46:IJ:324:LYS:HA	46:IJ:324:LYS:HD2	1.81	0.41
45:IK:259:LEU:HD11	45:IK:316:SER:HB3	2.01	0.41
46:IN:377:MET:O	46:IN:381:VAL:HG22	2.21	0.41
46:JB:418:LEU:O	46:JB:422:TYR:HB2	2.21	0.41
45:JC:152:LEU:HD12	45:JC:152:LEU:HA	1.86	0.41
46:JF:161:ASP:OD1	46:JF:162:ARG:HG2	2.21	0.41
46:JF:382:ALA:HB2	46:JF:415:MET:HE1	2.02	0.41
46:JL:263:LEU:HA	46:JL:422:TYR:HE2	1.86	0.41
46:JL:406:MET:CE	46:NL:306:ARG:HB2	2.50	0.41
45:KA:109:THR:HB	45:KA:110:ILE:HD12	2.03	0.41
45:KA:269:LEU:H	45:KA:269:LEU:HD23	1.86	0.41
46:KB:238:CYS:SG	46:KB:318:ARG:HD3	2.61	0.41
46:KB:374:ILE:HG23	46:KB:378:PHE:HE2	1.85	0.41
46:KB:423:GLN:O	46:KB:426:GLN:HG3	2.20	0.41
45:KC:174:SER:HB3	45:KC:177:VAL:O	2.21	0.41
45:KE:21:TRP:CH2	45:KE:63:PRO:HB3	2.55	0.41
45:KE:287:SER:O	45:KE:291:ILE:HG23	2.21	0.41
46:KL:109:GLY:HA2	46:KL:147:MET:CE	2.51	0.41
46:KN:9:GLY:HA2	46:KN:66:MET:O	2.21	0.41
46:KN:146:GLY:O	46:KN:149:THR:HG22	2.20	0.41
46:KN:172:SER:HB2	46:KN:174:LYS:NZ	2.36	0.41
46:KN:406:MET:O	46:KN:410:GLU:OE1	2.38	0.41
45:LA:40:LYS:O	45:LA:41:THR:HG22	2.20	0.41
46:LB:156:ARG:HG3	46:LB:195:ASN:HB3	2.02	0.41
46:LB:420:SER:O	46:LB:423:GLN:HG3	2.20	0.41
46:LF:309:ARG:NH2	46:LF:339:SER:O	2.53	0.41
45:LG:221:ARG:HH22	46:LH:321:MET:HA	1.84	0.41
45:LG:330:ALA:O	45:LG:334:THR:HG23	2.21	0.41
46:LL:244:GLY:HA2	46:LL:355:ASP:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LM:384:ILE:O	45:LM:387:VAL:HG22	2.21	0.41
45:MC:175:PRO:HB2	45:MC:176:GLN:OE1	2.21	0.41
45:ME:174:SER:OG	45:ME:207:GLU:HB2	2.21	0.41
45:ME:313:MET:HB2	45:ME:380:ASN:O	2.20	0.41
45:MI:377:MET:SD	45:MI:379:SER:HB3	2.61	0.41
45:NA:422:ARG:HA	45:NA:422:ARG:HD2	1.79	0.41
46:NB:391:ARG:HA	46:NB:391:ARG:HD2	1.77	0.41
45:NC:136:LEU:HD13	45:NC:167:LEU:HB2	2.03	0.41
45:NC:181:VAL:HG13	45:NC:182:VAL:HG13	2.03	0.41
45:NC:407:TRP:CZ3	46:ND:255:VAL:HA	2.56	0.41
45:NE:89:PRO:HG2	45:OE:280:LYS:HZ3	1.86	0.41
46:NF:396:HIS:HA	46:NF:399:THR:OG1	2.21	0.41
47:NG:501:GTP:O1G	46:NH:252:LYS:NZ	2.51	0.41
45:NI:203:MET:HG3	45:NI:384:ILE:HD11	2.03	0.41
45:NI:318:MET:O	45:NI:375:VAL:HA	2.21	0.41
45:NK:352:LYS:HD2	45:NK:353:VAL:N	2.35	0.41
46:NL:42:LEU:HA	46:NL:45:GLU:OE2	2.20	0.41
46:NL:145:SER:HB2	46:NL:188:SER:OG	2.21	0.41
45:NM:239:THR:HG23	45:NM:243:ARG:HH21	1.85	0.41
45:NM:306:ASP:HB3	45:NM:309:HIS:ND1	2.36	0.41
46:NN:16:ILE:HD11	46:NN:229:VAL:CG1	2.50	0.41
45:OA:296:PHE:HE2	45:OA:335:ILE:HG21	1.85	0.41
45:OC:81:GLY:O	45:OC:84:ARG:HG3	2.21	0.41
45:OC:398:MET:HE1	46:OD:346:PRO:HD2	2.03	0.41
45:OE:286:LEU:HD12	45:OE:371:VAL:HG11	2.02	0.41
45:OI:222:PRO:O	46:OJ:322:SER:HB2	2.20	0.41
46:OJ:298:ASN:C	46:OJ:298:ASN:HD22	2.22	0.41
46:OJ:372:THR:HG21	46:OJ:426:GLN:HG3	2.02	0.41
45:OK:318:MET:N	45:OK:318:MET:SD	2.94	0.41
46:OL:97:ALA:O	46:OL:103:LYS:HE3	2.20	0.41
46:ON:200:MET:SD	46:ON:266:PHE:HB2	2.60	0.41
46:PB:65:LEU:HD22	46:PB:90:PHE:CE1	2.56	0.41
46:PB:87:PRO:HA	46:PB:90:PHE:HD2	1.86	0.41
45:PC:84:ARG:HH11	45:PC:85:GLN:HE22	1.69	0.41
45:PC:221:ARG:HA	46:PD:325:GLU:OE2	2.21	0.41
45:PC:223:THR:C	46:PD:324:LYS:HZ1	2.24	0.41
45:PC:426:ALA:HB1	45:PC:430:LYS:NZ	2.36	0.41
46:PD:234:SER:O	46:PD:241:ARG:NH2	2.54	0.41
46:PD:312:THR:HG22	46:PD:370:ASN:HB3	2.02	0.41
46:PF:286:VAL:HG12	46:PF:329:GLN:OE1	2.21	0.41
46:PH:16:ILE:HD13	46:PH:226:ASN:OD1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:10:GLY:O	45:PI:14:ILE:HG12	2.21	0.41
45:PI:320:ARG:HB2	45:PI:358:GLN:O	2.20	0.41
46:PJ:285:THR:OG1	46:PJ:287:PRO:HD2	2.21	0.41
45:PK:107:HIS:O	45:PK:107:HIS:ND1	2.54	0.41
45:PK:345:ASP:OD2	45:PK:439:THR:HG22	2.21	0.41
46:PL:16:ILE:HD13	46:PL:226:ASN:OD1	2.20	0.41
46:QB:409:THR:O	46:QB:412:GLU:HG3	2.21	0.41
45:QE:268:MET:CE	45:QE:378:ILE:HG22	2.51	0.41
45:QE:411:GLU:N	45:QE:411:GLU:OE2	2.53	0.41
46:QF:375:GLN:HG3	46:QF:419:VAL:HG13	2.01	0.41
45:QG:21:TRP:CZ3	45:QG:63:PRO:HB3	2.56	0.41
45:QG:238:LEU:HD21	45:QG:378:ILE:HD11	2.03	0.41
45:QG:258:ASN:CB	45:QG:352:LYS:HE2	2.46	0.41
46:QH:145:SER:HB2	46:QH:188:SER:OG	2.21	0.41
46:QJ:12:CYS:O	46:QJ:16:ILE:HG12	2.20	0.41
46:QL:345:ILE:HD11	45:QM:401:LYS:NZ	2.35	0.41
46:QN:3:GLU:HG3	46:QN:62:ARG:HH12	1.86	0.41
46:QN:273:LEU:H	46:QN:292:GLN:NE2	2.11	0.41
46:RB:136:THR:HA	46:RB:167:PHE:HB2	2.02	0.41
46:RB:187:LEU:HD11	46:RB:408:PHE:CE1	2.55	0.41
45:RC:109:THR:HB	45:RC:110:ILE:HD12	2.03	0.41
45:RC:394:LYS:HA	45:RC:394:LYS:HD3	1.88	0.41
46:RD:134:GLN:O	46:RD:135:ILE:HD13	2.20	0.41
46:RD:173:PRO:HG2	46:RD:380:ARG:HD3	2.01	0.41
46:RD:175:VAL:HG23	46:RD:175:VAL:O	2.21	0.41
46:RD:222:TYR:O	46:RD:226:ASN:ND2	2.34	0.41
45:RE:129:CYS:SG	45:RE:132:LEU:HB3	2.60	0.41
46:RF:52:ASN:ND2	46:RF:62:ARG:HE	2.19	0.41
46:RF:374:ILE:HG22	46:RF:378:PHE:HE2	1.85	0.41
46:RH:280:GLN:HG2	46:RH:281:TYR:CD1	2.52	0.41
46:RH:330:MET:HA	46:RH:333:VAL:HG12	2.03	0.41
46:RJ:210:ILE:HD11	46:RJ:299:MET:O	2.21	0.41
46:RJ:347:ASN:HD21	45:RK:178:SER:HB3	1.86	0.41
45:RK:169:PHE:HB3	45:RK:204:LEU:HD11	2.02	0.41
45:RK:345:ASP:N	45:RK:345:ASP:OD1	2.54	0.41
46:RL:14:ASN:OD1	46:RL:65:LEU:HG	2.21	0.41
46:RL:88:ASP:OD1	46:RL:88:ASP:N	2.52	0.41
46:RN:3:GLU:HG3	46:RN:62:ARG:HH12	1.86	0.41
46:RN:276:ARG:HA	46:RN:276:ARG:HD3	1.91	0.41
45:SC:268:MET:HB3	45:SC:268:MET:HE3	1.88	0.41
46:SD:73:MET:HA	46:SD:76:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SD:131:GLN:O	46:SD:163:ILE:HG12	2.20	0.41
46:SD:243:PRO:HB3	45:SE:77:GLU:OE2	2.21	0.41
46:SD:345:ILE:HD12	45:SE:398:MET:HE1	2.02	0.41
45:SE:258:ASN:HD22	45:SE:352:LYS:HD3	1.85	0.41
46:SF:204:ASN:O	46:SF:208:TYR:HD1	2.04	0.41
45:SG:288:VAL:O	45:SG:292:THR:HG23	2.21	0.41
46:SH:293:MET:HG3	46:SH:365:VAL:HG11	2.01	0.41
45:SI:51:THR:HG22	45:SI:52:PHE:CD2	2.55	0.41
45:SI:431:ASP:O	45:SI:434:GLU:HG3	2.21	0.41
46:SJ:20:PHE:HA	46:SJ:230:SER:OG	2.20	0.41
46:SJ:156:ARG:HH11	46:SJ:164:MET:HG3	1.86	0.41
45:SK:316:SER:HA	45:SK:352:LYS:O	2.21	0.41
46:SL:1:MET:HE1	45:SM:96:LYS:HD3	2.03	0.41
46:SL:276:ARG:HD2	46:SL:276:ARG:HA	1.76	0.41
46:SL:375:GLN:HG3	46:SL:422:TYR:CE2	2.55	0.41
45:SM:141:VAL:HG11	45:SM:172:TYR:HA	2.02	0.41
46:TB:417:ASP:O	46:TB:421:GLU:OE1	2.39	0.41
46:TD:3:GLU:HG2	46:TD:48:ASN:O	2.20	0.41
46:TD:175:VAL:O	46:TD:175:VAL:HG23	2.21	0.41
46:TD:407:GLU:O	46:TD:410:GLU:HG3	2.20	0.41
45:TE:88:HIS:CD2	45:UE:280:LYS:HZ3	2.38	0.41
45:TE:422:ARG:HA	45:TE:422:ARG:NE	2.36	0.41
46:TF:4:ILE:HG13	46:TF:132:GLY:O	2.19	0.41
46:TF:316:LEU:HB2	46:TF:366:THR:CG2	2.51	0.41
45:TG:141:VAL:HG11	45:TG:172:TYR:HA	2.02	0.41
45:TG:203:MET:HA	45:TG:203:MET:CE	2.51	0.41
46:TJ:389:PHE:O	46:TJ:392:LYS:HD3	2.21	0.41
45:TM:186:ASN:OD1	45:TM:187:SER:N	2.54	0.41
45:UA:101:ASN:HA	45:UA:144:GLY:H	1.86	0.41
46:UD:424:GLN:HG2	46:UD:425:TYR:HD2	1.86	0.41
46:UF:113:ILE:HD13	46:UF:150:LEU:HD21	2.03	0.41
46:UF:158:GLU:C	46:UF:159:TYR:HD1	2.24	0.41
45:UI:339:ARG:NE	45:UI:339:ARG:HA	2.36	0.41
46:UJ:121:ARG:HG3	46:UJ:122:LYS:N	2.35	0.41
46:UJ:406:MET:O	46:UJ:410:GLU:OE1	2.39	0.41
46:UL:20:PHE:O	46:UL:24:ILE:HG12	2.20	0.41
45:VA:178:SER:OG	46:VB:347:ASN:HB3	2.21	0.41
46:VB:58:ARG:HH21	46:WB:281:TYR:HA	1.86	0.41
46:VB:118:ASP:HA	46:VB:121:ARG:HH11	1.85	0.41
46:VD:221:THR:HG23	46:VD:223:GLY:H	1.85	0.41
46:VD:333:VAL:HA	46:VD:336:LYS:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VH:117:LEU:HD13	46:VH:121:ARG:HH22	1.85	0.41
45:VI:101:ASN:HA	45:VI:144:GLY:H	1.85	0.41
45:VI:319:TYR:HB3	45:VI:323:VAL:HG11	2.03	0.41
46:VJ:154:LYS:O	46:VJ:157:GLU:HG2	2.20	0.41
46:VJ:222:TYR:HE1	49:VJ:501:GDP:C4	2.39	0.41
45:VK:141:VAL:HG11	45:VK:172:TYR:HA	2.03	0.41
45:VK:212:ILE:HD11	45:VK:300:ASN:HA	2.03	0.41
45:VK:221:ARG:HA	46:VL:324:LYS:HE3	2.03	0.41
45:VK:333:ALA:O	45:VK:337:THR:HG23	2.20	0.41
45:VK:338:LYS:CD	45:VK:340:THR:HG22	2.49	0.41
46:VL:116:VAL:HA	46:VL:119:VAL:HG12	2.03	0.41
45:VM:174:SER:HB2	45:VM:177:VAL:O	2.21	0.41
46:VN:105:HIS:CE1	46:VN:150:LEU:HD12	2.55	0.41
45:WA:149:LEU:O	45:WA:153:LEU:HD23	2.20	0.41
46:WB:204:ASN:HA	46:WB:207:LEU:HG	2.02	0.41
46:WB:225:LEU:O	46:WB:228:LEU:HG	2.20	0.41
45:WC:54:SER:HB3	45:WC:64:ARG:NH1	2.36	0.41
45:WC:88:HIS:HB3	45:WC:91:GLN:HG2	2.01	0.41
45:WE:175:PRO:HB2	45:WE:176:GLN:OE1	2.21	0.41
45:WG:332:ILE:HD11	45:WG:351:PHE:CD2	2.56	0.41
46:WH:41:ASP:OD1	46:WH:42:LEU:N	2.54	0.41
45:WI:177:VAL:HG13	46:WJ:327:ASP:CG	2.41	0.41
46:WL:22:GLU:HG2	46:WL:81:PHE:HB2	2.03	0.41
46:WL:318:ARG:HH11	46:WL:358:PRO:HG3	1.86	0.41
45:WM:67:PHE:HE1	45:WM:87:PHE:CE1	2.39	0.41
46:WN:68:LEU:HD11	46:WN:108:GLU:HG2	2.03	0.41
46:WN:285:THR:OG1	46:WN:288:GLU:OE1	2.27	0.41
45:CE:115:VAL:O	45:CE:119:LEU:HD23	2.21	0.41
1:0A:53:HIS:HB3	45:MA:84:ARG:HH22	1.86	0.41
4:0D:35:LYS:HZ3	45:DC:84:ARG:HE	1.69	0.41
6:0F:75:ARG:HG2	46:ED:359:LYS:HZ1	1.86	0.41
12:0T:65:ARG:NH2	46:MB:111:GLU:N	2.67	0.41
15:0X:23:GLY:HA3	46:MD:361:LEU:HD13	2.02	0.41
4:1D:54:PHE:HA	45:EG:221:ARG:HH12	1.84	0.41
7:1G:142:LYS:CE	45:JA:84:ARG:HD2	2.48	0.41
19:1J:175:HIS:HE1	46:HH:52:ASN:HA	1.85	0.41
21:1L:658:ARG:NH1	45:BE:80:THR:HB	2.36	0.41
9:1N:6:VAL:HG11	46:IJ:128:ASP:HA	2.03	0.41
23:1O:189:ILE:HA	46:UD:276:ARG:HH22	1.83	0.41
23:1O:261:LEU:HD13	45:TA:57:GLY:O	2.20	0.41
24:1P:168:ARG:CZ	45:TI:369:ALA:HB1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:1P:189:HIS:HE1	46:TH:284:LEU:HD23	1.85	0.41
24:1P:391:ARG:HD2	45:TA:370:LYS:HD3	2.02	0.41
13:1U:430:ARG:NH2	45:WE:365:GLY:H	2.19	0.41
1:2A:51:LYS:NZ	46:MJ:45:GLU:OE2	2.54	0.41
28:2F:83:ARG:NH1	45:GE:97:GLU:OE1	2.54	0.41
31:2I:101:GLU:HA	46:FF:114:ASP:OD1	2.20	0.41
21:2L:545:GLU:HG2	45:BM:279:GLU:OE1	2.21	0.41
23:2O:156:ARG:HH22	45:VK:368:LEU:C	2.24	0.41
12:2T:147:PHE:CE2	46:MJ:106:TYR:HB3	2.55	0.41
1:3A:73:ALA:O	45:AM:219:ILE:HD12	2.20	0.41
13:3U:123:GLN:HG3	46:WN:276:ARG:NH1	2.36	0.41
15:3X:52:GLN:HG3	45:MM:278:ALA:HB1	2.02	0.41
34:4R:559:ASN:HD21	34:4R:561:ARG:HH22	1.69	0.41
36:5C:29:GLN:O	36:5C:30:LYS:HD3	2.20	0.41
36:5C:102:TYR:CE1	45:KI:394:LYS:HG3	2.56	0.41
37:5E:93:PHE:O	37:5E:97:ARG:HG3	2.20	0.41
37:5E:199:LYS:HB2	37:5E:204:LYS:HD3	2.03	0.41
10:5Q:65:PRO:HA	10:5Q:153:ARG:HH22	1.85	0.41
34:5R:520:PRO:C	34:5R:522:VAL:H	2.24	0.41
35:5S:78:VAL:HG22	35:5S:80:PHE:HD1	1.85	0.41
35:5S:213:ASN:O	35:5S:217:LEU:HD13	2.21	0.41
35:5S:218:ILE:O	35:5S:222:LEU:HD23	2.20	0.41
39:6F:137:MET:O	39:6F:137:MET:HG2	2.21	0.41
40:6G:287:VAL:O	40:6G:290:GLN:HG2	2.20	0.41
10:6Q:15:TYR:CZ	10:6Q:17:ILE:HB	2.56	0.41
10:6Q:38:THR:HA	10:6Q:45:SER:HA	2.02	0.41
10:6Q:95:ASP:OD2	10:6Q:101:ARG:HG3	2.21	0.41
34:6R:129:VAL:HG12	34:6R:144:PHE:HB3	2.02	0.41
34:6R:268:GLU:OE1	46:DN:280:GLN:HG3	2.21	0.41
34:6R:567:ASN:HA	34:6R:570:VAL:HG22	2.02	0.41
34:7R:83:PRO:HG2	34:7R:86:LEU:HD12	2.01	0.41
34:7R:355:TYR:O	34:7R:358:GLU:HG3	2.21	0.41
34:7R:565:ASP:OD2	34:7R:567:ASN:ND2	2.53	0.41
42:8L:61:UNK:HA	46:SL:276:ARG:NH2	2.35	0.41
44:8R:230:TYR:CD2	45:PE:282:TYR:HB2	2.56	0.41
46:AB:21:TRP:CZ2	46:AB:63:ALA:HB2	2.56	0.41
45:AC:28:HIS:HE1	45:AC:48:ALA:C	2.25	0.41
45:AC:55:GLU:OE1	45:AC:61:HIS:NE2	2.54	0.41
46:AD:205:GLU:HG3	46:AD:206:ALA:N	2.36	0.41
45:AE:244:PHE:CZ	45:AE:358:GLN:HG2	2.56	0.41
46:AF:65:LEU:HB2	46:AF:90:PHE:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:AF:116:VAL:O	46:AF:120:VAL:HG23	2.21	0.41
45:AG:286:LEU:HA	45:AG:290:GLU:OE2	2.20	0.41
45:AK:304:LYS:HA	45:AK:304:LYS:HD2	1.79	0.41
46:AN:293:MET:SD	46:AN:365:VAL:HG11	2.61	0.41
45:BA:419:SER:O	45:BA:422:ARG:HG3	2.20	0.41
45:BC:20:CYS:HA	45:BC:232:ALA:HB1	2.03	0.41
45:BC:90:GLU:HG3	45:CC:280:LYS:HZ1	1.85	0.41
46:BD:218:THR:HG22	46:BD:219:THR:HG23	2.02	0.41
46:BF:221:THR:HG22	46:BF:222:TYR:N	2.36	0.41
45:BG:10:GLY:O	45:BG:14:ILE:HG12	2.21	0.41
45:BG:259:LEU:HD11	45:BG:316:SER:HB2	2.01	0.41
45:BG:387:VAL:HA	45:BG:390:ARG:HG2	2.01	0.41
45:BI:74:VAL:O	45:BI:78:VAL:HG23	2.20	0.41
45:BK:8:HIS:CE1	45:BK:17:GLY:HA3	2.55	0.41
45:BK:224:TYR:HA	45:BK:227:LEU:HD12	2.03	0.41
45:BK:356:ASN:OD1	45:BK:357:TYR:N	2.53	0.41
45:BK:407:TRP:HH2	46:BL:254:ALA:HB1	1.86	0.41
46:BL:247:ASN:C	46:BL:247:ASN:ND2	2.74	0.41
45:BM:100:ALA:HA	46:BN:252:LYS:HG2	2.03	0.41
45:BM:395:PHE:HZ	45:BM:418:PHE:HB3	1.84	0.41
46:BN:3:GLU:HG3	46:BN:62:ARG:NH1	2.36	0.41
46:BN:295:ASP:OD1	46:BN:296:ALA:N	2.54	0.41
46:BN:396:HIS:CD2	46:BN:397:TRP:CD1	3.08	0.41
45:CA:2:ARG:O	45:CA:51:THR:HA	2.21	0.41
45:CA:194:LEU:HB2	45:CA:198:THR:OG1	2.20	0.41
46:CB:1:MET:O	46:CB:2:ARG:HG2	2.21	0.41
46:CB:209:ASP:C	46:CB:213:ARG:HH11	2.24	0.41
45:CC:89:PRO:HD2	45:DC:280:LYS:HZ3	1.85	0.41
45:CC:196:GLU:HG2	45:CC:197:HIS:HD2	1.86	0.41
45:CC:207:GLU:OE1	45:CC:304:LYS:NZ	2.44	0.41
46:CF:88:ASP:OD1	46:CF:89:ASN:N	2.54	0.41
46:CF:324:LYS:H	45:CG:221:ARG:NH1	2.19	0.41
45:CG:71:GLU:HA	45:CG:72:PRO:HD3	1.89	0.41
45:CG:425:LEU:HD23	45:CG:425:LEU:HA	1.81	0.41
46:CH:12:CYS:SG	46:CH:169:VAL:HG21	2.61	0.41
46:CH:86:ARG:CZ	46:DH:281:TYR:CG	3.04	0.41
46:CH:406:MET:O	46:CH:409:THR:N	2.54	0.41
45:CI:149:LEU:O	45:CI:153:LEU:HD23	2.21	0.41
45:CI:426:ALA:HA	45:CI:429:GLU:OE1	2.20	0.41
46:CJ:21:TRP:CZ3	46:CJ:61:PRO:HB3	2.56	0.41
46:CJ:150:LEU:O	46:CJ:154:LYS:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CJ:240:LEU:HD23	46:CJ:240:LEU:HA	1.89	0.41
46:CJ:418:LEU:O	46:CJ:422:TYR:HB2	2.21	0.41
45:CK:88:HIS:O	45:CK:91:GLN:HG2	2.21	0.41
46:CL:163:ILE:HD11	46:CL:251:ARG:HD3	2.02	0.41
46:CL:164:MET:O	46:CL:197:ASP:HB3	2.21	0.41
45:CM:9:VAL:HG13	45:CM:139:ASN:HB3	2.03	0.41
45:CM:107:HIS:ND1	45:CM:107:HIS:O	2.53	0.41
45:CM:115:VAL:O	45:CM:119:LEU:HD23	2.21	0.41
45:DA:269:LEU:HD23	45:DA:379:SER:O	2.20	0.41
45:DA:271:SER:OG	45:DA:301:MET:HG3	2.21	0.41
46:DB:276:ARG:HD2	46:DB:276:ARG:HA	1.81	0.41
46:DB:322:SER:HB2	45:DC:222:PRO:O	2.21	0.41
46:DD:111:GLU:OE2	46:DD:111:GLU:N	2.53	0.41
46:DD:268:ILE:HG13	46:DD:300:MET:HG3	2.03	0.41
46:DD:418:LEU:HD12	46:DD:421:GLU:OE2	2.20	0.41
45:DE:68:LEU:HD23	45:DE:149:LEU:HD21	2.03	0.41
45:DE:141:VAL:HG22	45:DE:187:SER:HA	2.02	0.41
45:DE:259:LEU:HD21	45:DE:316:SER:HB2	2.01	0.41
45:DE:265:ILE:HG12	45:DE:432:TYR:CE1	2.56	0.41
45:DG:5:ILE:HB	45:DG:135:PHE:HD1	1.85	0.41
45:DG:51:THR:HG23	45:DG:52:PHE:CD2	2.56	0.41
45:DG:112:LYS:O	45:DG:115:VAL:HG12	2.21	0.41
45:DG:188:ILE:HD12	45:DG:425:LEU:CD1	2.50	0.41
46:DH:175:VAL:HG23	46:DH:175:VAL:O	2.21	0.41
46:DH:258:ILE:HG13	45:DI:407:TRP:HE1	1.86	0.41
45:DI:26:LEU:HD11	45:DI:364:PRO:HD2	2.03	0.41
45:DI:68:LEU:HD21	45:DI:118:CYS:HB2	2.02	0.41
45:DI:352:LYS:HD2	46:DJ:177:ASP:O	2.20	0.41
45:DK:22:GLU:OE2	45:DK:229:ARG:NH1	2.53	0.41
46:DL:139:LEU:HD11	46:DL:168:SER:HB3	2.02	0.41
46:DL:293:MET:SD	46:DL:365:VAL:HG11	2.61	0.41
46:DL:409:THR:O	46:DL:412:GLU:HG3	2.21	0.41
45:DM:136:LEU:HD13	45:DM:167:LEU:HB2	2.03	0.41
45:DM:229:ARG:HH12	45:DM:363:VAL:HG21	1.85	0.41
46:DN:86:ARG:HE	46:EN:281:TYR:HD2	1.69	0.41
46:DN:91:VAL:HG21	46:DN:116:VAL:HB	2.02	0.41
45:EC:135:PHE:HE2	45:EC:164:LYS:HB3	1.86	0.41
46:ED:107:THR:OG1	46:ED:108:GLU:OE2	2.39	0.41
46:EF:8:GLN:HB3	46:EF:65:LEU:HD23	2.03	0.41
45:EG:90:GLU:HG2	45:EG:121:ARG:NH2	2.36	0.41
45:EG:115:VAL:HG22	45:EG:119:LEU:HD23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EG:430:LYS:O	45:EG:433:GLU:HG3	2.21	0.41
46:EJ:252:LYS:HA	46:EJ:255:VAL:HG12	2.03	0.41
45:EK:90:GLU:OE1	45:EK:90:GLU:N	2.54	0.41
45:EK:109:THR:HB	45:EK:110:ILE:HD12	2.03	0.41
45:EK:116:ASP:O	45:EK:119:LEU:HG	2.21	0.41
45:EK:124:LYS:HE2	45:EK:124:LYS:HB2	1.90	0.41
46:EL:226:ASN:HA	46:EL:229:VAL:HG22	2.03	0.41
46:EL:318:ARG:HH22	46:EL:358:PRO:CB	2.34	0.41
46:EL:324:LYS:O	46:EL:328:GLU:OE1	2.39	0.41
45:EM:9:VAL:HG21	45:EM:149:LEU:HB2	2.03	0.41
45:EM:20:CYS:HB3	45:EM:235:ILE:HD11	2.03	0.41
45:EM:76:ASP:HA	45:EM:79:ARG:HG2	2.03	0.41
45:EM:252:ILE:HA	45:EM:255:PHE:CE2	2.56	0.41
46:FB:52:ASN:CG	46:FB:62:ARG:HE	2.24	0.41
46:FB:87:PRO:HA	46:FB:90:PHE:CD2	2.55	0.41
45:FC:8:HIS:HB2	45:FC:67:PHE:CD1	2.56	0.41
45:FC:20:CYS:HA	45:FC:232:ALA:HB1	2.03	0.41
45:FE:71:GLU:OE2	45:FE:73:THR:OG1	2.38	0.41
45:FE:328:VAL:HG11	45:FE:353:VAL:HG21	2.02	0.41
45:FE:387:VAL:HA	45:FE:390:ARG:HG2	2.03	0.41
46:FF:3:GLU:OE2	46:FF:128:ASP:N	2.53	0.41
46:FF:207:LEU:HD23	46:FF:207:LEU:HA	1.77	0.41
45:FG:88:HIS:NE2	45:GG:284:GLU:OE2	2.54	0.41
45:FG:118:CYS:O	45:FG:122:ILE:HG13	2.21	0.41
45:FG:394:LYS:HZ2	46:FH:346:PRO:HG2	1.85	0.41
46:FH:21:TRP:HA	46:FH:24:ILE:HG22	2.03	0.41
46:FH:138:SER:HA	46:FH:169:VAL:HB	2.03	0.41
45:FI:127:ASP:OD1	45:FI:128:ASN:N	2.53	0.41
46:FJ:31:ASP:OD2	46:FJ:35:THR:OG1	2.39	0.41
46:FJ:116:VAL:HA	46:FJ:119:VAL:HG12	2.03	0.41
46:FJ:290:THR:HA	46:FJ:293:MET:HE2	2.02	0.41
45:FK:425:LEU:HD23	45:FK:425:LEU:HA	1.84	0.41
46:FL:294:PHE:HE1	46:FL:333:VAL:HG21	1.86	0.41
45:FM:288:VAL:HA	45:FM:291:ILE:HG12	2.01	0.41
46:FN:420:SER:O	46:FN:423:GLN:HG3	2.21	0.41
45:GA:67:PHE:HB2	45:GA:92:LEU:HD23	2.03	0.41
45:GA:100:ALA:HA	46:GB:252:LYS:HD3	2.02	0.41
46:GB:344:TRP:CE3	46:GB:345:ILE:HG23	2.56	0.41
45:GC:209:ILE:HG12	45:GC:302:MET:SD	2.61	0.41
45:GC:268:MET:HG3	45:GC:380:ASN:HB2	2.02	0.41
45:GC:271:SER:HB2	45:GC:301:MET:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GF:240:LEU:HD12	46:GF:240:LEU:O	2.21	0.41
46:GF:310:TYR:CD1	46:GF:371:SER:HB2	2.56	0.41
45:GG:338:LYS:HA	45:GG:338:LYS:HD2	1.83	0.41
46:GH:3:GLU:H	46:GH:3:GLU:CD	2.24	0.41
46:GH:316:LEU:HG	46:GH:352:SER:HB2	2.03	0.41
45:GI:2:ARG:HD3	45:GI:2:ARG:H	1.86	0.41
45:GI:88:HIS:HB3	45:GI:91:GLN:HG2	2.03	0.41
45:GI:326:LYS:HZ3	46:GL:208:TYR:CB	2.34	0.41
45:GI:430:LYS:O	45:GI:433:GLU:HG2	2.20	0.41
45:GK:88:HIS:NE2	45:HK:284:GLU:OE2	2.52	0.41
45:GK:326:LYS:NZ	46:GN:220:PRO:O	2.52	0.41
46:GL:153:SER:O	46:GL:157:GLU:HG2	2.21	0.41
46:GL:403:MET:HG3	46:GL:407:GLU:OE2	2.21	0.41
46:GN:58:ARG:HD3	46:HN:280:GLN:OE1	2.21	0.41
45:HA:203:MET:HE2	45:HA:268:MET:C	2.40	0.41
46:HB:138:SER:HA	46:HB:169:VAL:HB	2.03	0.41
46:HB:330:MET:HB3	46:HB:349:ILE:HD12	2.03	0.41
45:HC:141:VAL:HG11	45:HC:172:TYR:HD1	1.85	0.41
45:HC:326:LYS:NZ	46:HF:208:TYR:HB3	2.36	0.41
46:HD:54:ALA:HB3	46:HD:58:ARG:HG2	2.03	0.41
46:HD:178:THR:HB	46:HD:181:GLU:CD	2.41	0.41
45:HE:140:SER:OG	47:HE:501:GTP:O2B	2.39	0.41
45:HE:185:TYR:HE1	45:HE:398:MET:HG3	1.86	0.41
45:HG:217:LEU:HD23	45:HG:217:LEU:HA	1.94	0.41
45:HG:251:ASP:HB2	45:HG:254:GLU:HG2	2.03	0.41
45:HI:89:PRO:CD	45:II:283:HIS:HD1	2.34	0.41
45:HI:222:PRO:HG2	46:HJ:324:LYS:HD3	2.03	0.41
45:HI:331:SER:O	45:HI:335:ILE:HG12	2.21	0.41
45:HI:342:GLN:OE1	45:HI:342:GLN:N	2.54	0.41
46:HJ:31:ASP:OD2	46:HJ:35:THR:HB	2.20	0.41
46:HJ:51:TYR:HE2	46:HJ:61:PRO:HG3	1.86	0.41
46:HJ:187:LEU:HD11	46:HJ:408:PHE:CE2	2.56	0.41
46:HJ:304:ASP:OD2	46:HJ:306:ARG:NH2	2.53	0.41
45:HK:9:VAL:HG13	45:HK:139:ASN:HB3	2.03	0.41
45:HK:384:ILE:O	45:HK:387:VAL:HG22	2.21	0.41
46:HL:116:VAL:HA	46:HL:119:VAL:HG12	2.03	0.41
46:HL:173:PRO:HD3	46:HL:380:ARG:HH12	1.86	0.41
45:HM:206:ASN:OD1	47:HM:501:GTP:N2	2.43	0.41
46:HN:97:ALA:HA	46:HN:103:LYS:HG2	2.03	0.41
46:HN:407:GLU:O	46:HN:410:GLU:HG3	2.20	0.41
45:IA:169:PHE:HB3	45:IA:204:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IA:319:TYR:CD2	45:IA:323:VAL:HG11	2.56	0.41
46:IB:3:GLU:HA	46:IB:49:VAL:HG13	2.02	0.41
46:IB:255:VAL:HG13	46:IB:256:ASN:HD22	1.86	0.41
45:IC:22:GLU:OE2	45:IC:83:TYR:HE2	2.03	0.41
45:IC:120:ASP:O	45:IC:124:LYS:HG2	2.21	0.41
45:IC:398:MET:HE2	46:ID:345:ILE:HA	2.03	0.41
46:ID:3:GLU:O	46:ID:130:LEU:HD12	2.21	0.41
46:ID:293:MET:HG3	46:ID:367:PHE:HB2	2.03	0.41
45:IE:141:VAL:HG11	45:IE:172:TYR:HA	2.02	0.41
46:IF:396:HIS:HA	46:IF:399:THR:OG1	2.21	0.41
45:IG:1:MET:HE2	45:IG:130:THR:HG23	2.03	0.41
45:IG:287:SER:O	45:IG:291:ILE:HG23	2.21	0.41
46:IH:6:HIS:CD2	46:IH:134:GLN:NE2	2.86	0.41
46:IH:87:PRO:HG2	45:JE:280:LYS:HG2	2.02	0.41
46:IH:318:ARG:NH1	46:IH:358:PRO:HG3	2.36	0.41
45:II:291:ILE:HG13	45:II:292:THR:N	2.36	0.41
45:IK:358:GLN:OE1	45:IK:359:PRO:HD2	2.21	0.41
46:IL:260:PHE:HB2	46:IL:263:LEU:HD13	2.03	0.41
45:IM:224:TYR:CE2	46:IN:323:THR:HG21	2.56	0.41
45:IM:311:LYS:N	45:IM:382:THR:OG1	2.52	0.41
45:IM:409:VAL:HG21	45:IM:415:GLU:OE1	2.21	0.41
46:IN:273:LEU:N	46:IN:292:GLN:HE22	2.15	0.41
46:IN:377:MET:SD	46:IN:380:ARG:HD3	2.60	0.41
45:JA:33:ASP:OD1	45:JA:34:GLY:N	2.54	0.41
46:JB:180:VAL:HG12	46:JB:180:VAL:O	2.21	0.41
45:JC:174:SER:HB2	45:JC:177:VAL:O	2.20	0.41
46:JD:178:THR:HG22	46:JD:180:VAL:H	1.86	0.41
45:JE:141:VAL:CG1	45:JE:172:TYR:HA	2.51	0.41
45:JE:188:ILE:HG22	45:JE:421:ALA:HB1	2.01	0.41
45:JE:268:MET:HB2	45:JE:379:SER:O	2.21	0.41
46:JF:19:LYS:HZ3	46:JF:227:HIS:HB2	1.85	0.41
46:JF:170:VAL:HG21	46:JF:377:MET:CE	2.51	0.41
45:JG:265:ILE:HG23	45:JG:432:TYR:CZ	2.56	0.41
46:JH:396:HIS:HA	46:JH:399:THR:OG1	2.21	0.41
45:JK:223:THR:HG23	45:JK:225:THR:H	1.85	0.41
45:JK:244:PHE:HB2	45:JK:356:ASN:HD21	1.86	0.41
45:JK:326:LYS:CE	46:JN:220:PRO:HD2	2.45	0.41
45:JK:392:ASP:OD1	45:JK:422:ARG:NH1	2.53	0.41
46:JN:9:GLY:HA2	46:JN:66:MET:O	2.21	0.41
46:JN:69:GLU:OE2	46:JN:71:GLY:N	2.51	0.41
46:JN:86:ARG:NH1	46:KN:281:TYR:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JN:324:LYS:O	46:JN:327:ASP:N	2.53	0.41
45:KA:2:ARG:HD2	45:KA:242:LEU:O	2.21	0.41
45:KA:404:PHE:CD1	46:KB:259:PRO:HA	2.55	0.41
46:KB:5:VAL:HG12	46:KB:62:ARG:HD3	2.02	0.41
46:KB:198:GLU:OE2	46:KB:254:ALA:HB2	2.21	0.41
45:KC:51:THR:HG21	45:KC:243:ARG:HD3	2.03	0.41
45:KC:68:LEU:HD22	45:KC:153:LEU:HD11	2.03	0.41
45:KC:178:SER:OG	45:KC:183:GLU:OE1	2.38	0.41
45:KC:195:LEU:HD13	45:KC:428:LEU:HD11	2.03	0.41
45:KC:210:TYR:HB3	46:KD:324:LYS:NZ	2.36	0.41
46:KD:8:GLN:HE21	46:KD:65:LEU:HD11	1.85	0.41
46:KD:108:GLU:O	46:KD:111:GLU:HG2	2.21	0.41
46:KD:214:THR:OG1	46:KD:215:LEU:N	2.53	0.41
46:KD:372:THR:HG21	46:KD:426:GLN:HB2	2.02	0.41
46:KD:376:GLU:OE1	46:KD:380:ARG:NH2	2.53	0.41
45:KE:31:GLN:NE2	45:KE:37:PRO:HA	2.36	0.41
45:KE:291:ILE:HG13	45:KE:292:THR:N	2.35	0.41
45:KE:430:LYS:O	45:KE:433:GLU:HG3	2.21	0.41
46:KF:146:GLY:O	46:KF:149:THR:HG22	2.20	0.41
46:KF:292:GLN:HG2	46:KF:298:ASN:HD22	1.85	0.41
46:KH:207:LEU:HD13	46:KH:225:LEU:HB3	2.02	0.41
46:KH:311:LEU:HD23	46:KH:311:LEU:HA	1.90	0.41
46:KJ:260:PHE:HB2	46:KJ:263:LEU:HD13	2.01	0.41
45:KK:303:ALA:O	45:KK:305:CYS:N	2.52	0.41
45:KK:371:VAL:HG22	45:KK:373:ARG:H	1.85	0.41
46:KL:100:ASN:HB3	46:KL:103:LYS:HB2	2.02	0.41
46:KL:113:ILE:HD13	46:KL:150:LEU:HD22	2.01	0.41
46:KL:117:LEU:HA	46:KL:120:VAL:HG12	2.02	0.41
45:KM:72:PRO:HA	45:KM:75:ILE:HG22	2.02	0.41
45:LA:296:PHE:HE1	45:LA:335:ILE:HG13	1.86	0.41
46:LB:87:PRO:HA	46:LB:90:PHE:HD2	1.85	0.41
46:LB:122:LYS:HE2	46:MB:291:GLN:OE1	2.20	0.41
45:LC:70:LEU:HB3	45:LC:97:GLU:O	2.20	0.41
45:LC:390:ARG:HG3	45:LC:391:LEU:N	2.35	0.41
45:LE:244:PHE:CE2	45:LE:358:GLN:HG2	2.55	0.41
46:LH:334:GLN:HE22	46:LH:348:ASN:H	1.67	0.41
45:LI:71:GLU:CD	45:LI:73:THR:H	2.24	0.41
45:LI:244:PHE:CE2	45:LI:358:GLN:HG2	2.56	0.41
45:LI:345:ASP:N	45:LI:345:ASP:OD1	2.54	0.41
46:LJ:287:PRO:HA	46:LJ:290:THR:HG22	2.03	0.41
46:LJ:313:ALA:HB1	46:LJ:367:PHE:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:417:ASP:O	46:LJ:421:GLU:HG3	2.21	0.41
46:LL:2:ARG:HG3	46:LL:240:LEU:HD11	2.02	0.41
46:LL:117:LEU:HD23	46:LL:117:LEU:HA	1.95	0.41
46:LL:374:ILE:HG22	46:LL:422:TYR:CE2	2.56	0.41
45:MA:289:ALA:O	45:MA:292:THR:HG22	2.21	0.41
46:MB:16:ILE:HD13	46:MB:226:ASN:OD1	2.21	0.41
46:MB:420:SER:C	46:MB:424:GLN:HE22	2.24	0.41
45:MC:118:CYS:O	45:MC:122:ILE:HG12	2.21	0.41
45:MC:319:TYR:HB3	45:MC:323:VAL:HG21	2.02	0.41
45:ME:90:GLU:OE1	45:ME:121:ARG:NH2	2.54	0.41
46:MF:116:VAL:HA	46:MF:119:VAL:HG12	2.03	0.41
45:MG:265:ILE:HG12	45:MG:432:TYR:CE2	2.49	0.41
46:MH:2:ARG:HB2	46:MH:131:GLN:HB2	2.03	0.41
46:MH:21:TRP:CZ2	46:MH:63:ALA:HB2	2.56	0.41
46:MH:332:ASN:O	46:MH:336:LYS:HG2	2.21	0.41
45:MI:276:ILE:HG12	45:MI:281:ALA:HA	2.03	0.41
46:MJ:10:GLY:O	46:MJ:14:ASN:ND2	2.54	0.41
46:MJ:21:TRP:CD1	46:MJ:85:PHE:HE1	2.39	0.41
46:MJ:68:LEU:HB3	46:MJ:96:GLY:HA2	2.02	0.41
46:MJ:294:PHE:CD2	46:MJ:333:VAL:HG21	2.56	0.41
45:MK:84:ARG:H	45:MK:84:ARG:HG2	1.68	0.41
45:MK:155:GLU:OE2	45:MK:197:HIS:NE2	2.54	0.41
45:MK:256:GLN:CD	45:MK:256:GLN:H	2.23	0.41
45:MK:265:ILE:HG22	45:MK:380:ASN:HD21	1.86	0.41
46:ML:102:ALA:HB2	46:ML:398:TYR:CD1	2.54	0.41
46:ML:117:LEU:HA	46:ML:120:VAL:HG12	2.02	0.41
45:MM:387:VAL:HA	45:MM:390:ARG:HG2	2.03	0.41
45:NA:9:VAL:HG22	45:NA:146:GLY:HA2	2.03	0.41
46:NB:113:ILE:O	46:NB:117:LEU:HD23	2.21	0.41
45:NC:169:PHE:HA	45:NC:202:VAL:HG22	2.03	0.41
45:NC:265:ILE:HG22	45:NC:380:ASN:HD21	1.86	0.41
45:NC:284:GLU:HB3	45:NC:286:LEU:HD22	2.03	0.41
45:NE:54:SER:HB3	45:NE:64:ARG:NH1	2.35	0.41
45:NE:179:THR:O	46:NF:350:LYS:HA	2.21	0.41
45:NE:227:LEU:O	45:NE:231:ILE:HG12	2.21	0.41
45:NE:414:GLU:CD	45:NE:416:GLY:H	2.23	0.41
46:NF:23:VAL:HG11	46:NF:230:SER:HB3	2.03	0.41
45:NG:55:GLU:HG3	45:NG:57:GLY:H	1.86	0.41
46:NH:407:GLU:HA	46:NH:410:GLU:HG3	2.03	0.41
45:NI:97:GLU:OE1	45:NI:98:ASP:N	2.53	0.41
46:NJ:256:ASN:HB3	46:NJ:350:LYS:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NJ:257:LEU:HA	46:NJ:312:THR:HG21	2.03	0.41
46:NJ:302:ALA:HB3	46:NJ:377:MET:HE1	2.02	0.41
46:NJ:324:LYS:O	46:NJ:328:GLU:HG3	2.21	0.41
45:NK:5:ILE:CD1	45:NK:132:LEU:HD11	2.51	0.41
45:NK:310:GLY:HA3	45:NK:383:ALA:HB2	2.02	0.41
45:NM:222:PRO:HD2	46:NN:324:LYS:CE	2.50	0.41
45:NM:306:ASP:OD2	45:NM:308:ARG:HB2	2.20	0.41
46:NN:326:VAL:HG21	46:NN:353:ILE:HD11	2.02	0.41
45:OA:8:HIS:HD2	45:OA:138:PHE:HB2	1.86	0.41
45:OA:319:TYR:HB3	45:OA:323:VAL:HG11	2.03	0.41
46:OB:68:LEU:HB3	46:OB:96:GLY:HA2	2.03	0.41
46:OB:359:LYS:HD2	46:OB:359:LYS:HA	1.73	0.41
46:OB:391:ARG:HD2	46:OB:391:ARG:HA	1.80	0.41
45:OC:56:THR:HG23	45:OC:58:ALA:H	1.86	0.41
45:OC:75:ILE:HD12	45:OC:75:ILE:H	1.86	0.41
46:OD:175:VAL:O	46:OD:175:VAL:HG23	2.21	0.41
45:OE:156:ARG:HD3	45:OE:156:ARG:HA	1.94	0.41
46:OF:46:ARG:HD3	46:OF:46:ARG:HA	1.81	0.41
46:OF:68:LEU:HB3	46:OF:96:GLY:HA2	2.03	0.41
46:OF:101:TRP:NE1	46:OF:146:GLY:HA2	2.36	0.41
45:OG:49:PHE:O	45:OG:53:PHE:N	2.51	0.41
46:OH:97:ALA:HB2	46:OH:143:THR:HB	2.02	0.41
46:OH:101:TRP:HB3	46:OH:398:TYR:HE2	1.85	0.41
46:OJ:319:GLY:HA2	46:OJ:357:PRO:HD3	2.02	0.41
46:OJ:392:LYS:HA	46:OJ:395:LEU:HD12	2.02	0.41
45:OK:276:ILE:HG22	45:OK:277:SER:O	2.20	0.41
45:OM:139:ASN:O	45:OM:170:THR:HA	2.21	0.41
46:ON:99:ASN:HA	46:ON:142:GLY:HA3	2.02	0.41
46:ON:391:ARG:HA	46:ON:391:ARG:HD2	1.82	0.41
45:PA:11:GLN:HA	45:PA:14:ILE:HG22	2.03	0.41
45:PA:149:LEU:O	45:PA:153:LEU:HD23	2.20	0.41
45:PA:259:LEU:HB3	45:PA:268:MET:HE2	2.02	0.41
46:PD:203:ASP:O	46:PD:207:LEU:HG	2.21	0.41
45:PE:149:LEU:O	45:PE:153:LEU:HD23	2.20	0.41
45:PE:387:VAL:O	45:PE:390:ARG:HG2	2.21	0.41
46:PF:32:PRO:HG3	46:PF:81:PHE:CZ	2.55	0.41
46:PF:396:HIS:NE2	46:PF:397:TRP:NE1	2.69	0.41
45:PG:252:ILE:O	45:PG:255:PHE:HB2	2.21	0.41
46:PH:21:TRP:CZ3	46:PH:61:PRO:HB3	2.55	0.41
46:PH:148:GLY:O	46:PH:152:ILE:HG13	2.21	0.41
45:PI:183:GLU:HG2	45:PI:184:PRO:CD	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:PI:426:ALA:HB1	45:PI:430:LYS:HZ1	1.86	0.41
46:PJ:44:LEU:HD22	46:PJ:47:ILE:HD13	2.02	0.41
46:PL:131:GLN:O	46:PL:162:ARG:HD2	2.20	0.41
46:PL:318:ARG:HB2	46:PL:364:ALA:HB3	2.03	0.41
45:PM:75:ILE:O	45:PM:79:ARG:HG3	2.21	0.41
45:PM:75:ILE:HD12	45:PM:92:LEU:HB3	2.02	0.41
45:PM:221:ARG:HH12	46:PN:325:GLU:CD	2.23	0.41
46:PN:5:VAL:HG12	46:PN:62:ARG:HB3	2.03	0.41
46:PN:113:ILE:HA	46:PN:116:VAL:HG12	2.02	0.41
45:QA:75:ILE:HG23	45:QA:92:LEU:HD23	2.03	0.41
46:QB:164:MET:HB3	46:QB:197:ASP:H	1.86	0.41
46:QD:259:PRO:HA	45:QE:404:PHE:CD1	2.55	0.41
46:QD:350:LYS:NZ	46:QD:351:SER:O	2.50	0.41
45:QE:21:TRP:CZ3	45:QE:63:PRO:HB3	2.56	0.41
45:QE:239:THR:HG23	45:QE:243:ARG:HH21	1.85	0.41
46:QF:65:LEU:O	46:QF:91:VAL:HG12	2.21	0.41
46:QF:395:LEU:O	46:QF:399:THR:HG23	2.21	0.41
45:QG:70:LEU:HB3	45:QG:97:GLU:O	2.21	0.41
45:QG:271:SER:OG	45:QG:301:MET:HA	2.21	0.41
45:QG:395:PHE:HZ	45:QG:418:PHE:HB3	1.84	0.41
46:QH:226:ASN:HD21	49:QH:501:GDP:HN1	1.69	0.41
46:QH:418:LEU:HD12	46:QH:421:GLU:OE2	2.21	0.41
45:QI:31:GLN:OE1	45:QI:37:PRO:HD3	2.21	0.41
45:QI:147:SER:HB2	45:QI:190:SER:HB3	2.03	0.41
45:QI:251:ASP:H	45:QI:254:GLU:CG	2.34	0.41
46:QJ:258:ILE:HD11	45:QK:407:TRP:CZ2	2.55	0.41
46:QJ:318:ARG:HB3	46:QJ:357:PRO:HA	2.03	0.41
46:QJ:319:GLY:HA2	46:QJ:357:PRO:HD3	2.03	0.41
45:QK:60:LYS:HG2	45:QK:61:HIS:N	2.36	0.41
45:QK:368:LEU:HD23	45:QK:368:LEU:HA	1.92	0.41
46:QL:175:VAL:HG22	46:QL:205:GLU:HB3	2.03	0.41
45:QM:75:ILE:HG23	45:QM:92:LEU:HG	2.02	0.41
45:QM:79:ARG:HA	45:QM:87:PHE:CZ	2.52	0.41
45:QM:311:LYS:HD2	45:QM:342:GLN:HG3	2.03	0.41
46:QN:74:ASP:OD1	46:QN:77:ARG:NH2	2.54	0.41
45:RA:242:LEU:HD11	45:RA:252:ILE:HG13	2.01	0.41
46:RB:4:ILE:HG13	46:RB:132:GLY:O	2.21	0.41
46:RB:284:LEU:HD21	46:RB:362:LYS:HD2	2.03	0.41
46:RB:330:MET:HB3	46:RB:330:MET:HE2	2.00	0.41
45:RC:136:LEU:HD12	45:RC:137:VAL:N	2.36	0.41
45:RC:148:GLY:O	45:RC:152:LEU:HD23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:RC:206:ASN:HA	45:RC:209:ILE:HG12	2.03	0.41
45:RC:239:THR:HG23	45:RC:243:ARG:HH21	1.85	0.41
45:RC:271:SER:OG	45:RC:301:MET:SD	2.79	0.41
45:RC:384:ILE:O	45:RC:387:VAL:HG12	2.21	0.41
46:RD:20:PHE:HA	46:RD:230:SER:OG	2.21	0.41
46:RD:65:LEU:HD22	46:RD:90:PHE:CE1	2.56	0.41
46:RD:285:THR:OG1	46:RD:288:GLU:HG2	2.20	0.41
46:RD:313:ALA:HB1	46:RD:367:PHE:CE1	2.55	0.41
45:RE:20:CYS:HA	45:RE:232:ALA:HB1	2.02	0.41
45:RE:260:VAL:HG23	46:RF:397:TRP:CZ2	2.49	0.41
45:RE:272:TYR:O	45:RE:300:ASN:ND2	2.52	0.41
45:RE:422:ARG:HH11	45:RE:422:ARG:HA	1.86	0.41
46:RF:68:LEU:HD22	46:RF:97:ALA:HB2	2.03	0.41
46:RF:174:LYS:HE2	46:RF:174:LYS:HB2	1.85	0.41
46:RF:211:CYS:SG	46:RF:220:PRO:HB3	2.61	0.41
46:RF:226:ASN:HA	46:RF:229:VAL:HG22	2.03	0.41
46:RF:228:LEU:HD11	46:RF:273:LEU:HD11	2.03	0.41
46:RF:309:ARG:NH2	46:RF:426:GLN:HG2	2.36	0.41
45:RG:296:PHE:HE2	45:RG:335:ILE:HD13	1.86	0.41
45:RG:370:LYS:HA	45:RG:370:LYS:HD2	1.83	0.41
45:RI:287:SER:O	45:RI:291:ILE:HG23	2.20	0.41
46:RJ:324:LYS:O	46:RJ:328:GLU:HB2	2.21	0.41
45:RK:5:ILE:O	45:RK:135:PHE:HA	2.20	0.41
45:RK:64:ARG:HA	45:RK:125:LEU:HD11	2.03	0.41
46:RL:3:GLU:HA	46:RL:49:VAL:HG13	2.03	0.41
46:RL:101:TRP:HD1	46:RL:145:SER:OG	2.04	0.41
46:RL:222:TYR:CD1	49:RL:501:GDP:C6	3.09	0.41
46:RL:345:ILE:O	46:RL:345:ILE:HG13	2.20	0.41
45:RM:71:GLU:HA	45:RM:72:PRO:HD3	1.93	0.41
46:RN:105:HIS:CE1	46:RN:150:LEU:HD12	2.55	0.41
45:SA:71:GLU:HA	45:SA:72:PRO:HD3	1.91	0.41
45:SC:123:ARG:HA	45:SC:123:ARG:HD3	1.87	0.41
45:SC:265:ILE:O	45:SC:265:ILE:HG23	2.20	0.41
46:SD:1:MET:SD	46:SD:2:ARG:N	2.94	0.41
46:SD:83:GLN:O	46:TD:281:TYR:OH	2.22	0.41
46:SD:116:VAL:HA	46:SD:119:VAL:HG12	2.03	0.41
46:SD:345:ILE:HG23	46:SD:345:ILE:O	2.21	0.41
45:SE:91:GLN:HG3	45:SE:121:ARG:HH21	1.84	0.41
46:SF:2:ARG:NH2	45:SG:72:PRO:HD2	2.36	0.41
46:SF:16:ILE:HD12	46:SF:229:VAL:HG11	2.03	0.41
46:SF:321:MET:N	46:SF:321:MET:SD	2.93	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SG:4:VAL:HG12	45:SG:133:GLN:HB2	2.03	0.41
45:SG:174:SER:OG	45:SG:207:GLU:HB2	2.21	0.41
45:SG:254:GLU:HG3	45:SG:254:GLU:O	2.21	0.41
45:SG:262:TYR:OH	46:SH:391:ARG:O	2.35	0.41
45:SG:419:SER:O	45:SG:423:GLU:HG2	2.20	0.41
46:SH:67:ASP:OD1	46:SH:68:LEU:N	2.54	0.41
46:SH:135:ILE:HB	46:SH:166:THR:HG22	2.02	0.41
45:SI:171:ILE:HG13	45:SI:204:LEU:HB2	2.03	0.41
46:SJ:11:GLN:NE2	49:SJ:501:GDP:O1A	2.54	0.41
46:SL:130:LEU:HD21	46:SL:133:PHE:CZ	2.56	0.41
45:SM:88:HIS:HB3	45:SM:91:GLN:HG2	2.01	0.41
46:SN:267:MET:HB2	46:SN:299:MET:CE	2.50	0.41
46:SN:276:ARG:HD3	46:SN:276:ARG:HA	1.89	0.41
46:SN:294:PHE:CE1	46:SN:333:VAL:HG11	2.56	0.41
45:TA:141:VAL:HG11	45:TA:172:TYR:HA	2.03	0.41
45:TA:298:PRO:HA	45:TA:301:MET:HE1	2.03	0.41
46:TB:3:GLU:CG	46:TB:49:VAL:HA	2.49	0.41
46:TB:87:PRO:HA	46:TB:90:PHE:CD2	2.54	0.41
46:TB:326:VAL:O	46:TB:330:MET:HG2	2.21	0.41
46:TD:322:SER:H	45:TE:221:ARG:CZ	2.33	0.41
45:TE:87:PHE:O	45:UE:283:HIS:HE1	2.04	0.41
45:TE:402:ARG:NH1	45:TE:405:VAL:HB	2.36	0.41
46:TF:6:HIS:O	46:TF:63:ALA:HA	2.20	0.41
45:TG:10:GLY:O	45:TG:14:ILE:HG12	2.20	0.41
45:TG:21:TRP:CZ2	45:TG:65:ALA:HB2	2.55	0.41
46:TH:109:GLY:O	46:TH:113:ILE:HG23	2.21	0.41
46:TJ:192:LEU:HD21	46:TJ:199:CYS:HB2	2.01	0.41
45:TK:194:LEU:O	45:TK:198:THR:HG22	2.21	0.41
46:TL:102:ALA:O	46:TL:106:TYR:HB2	2.21	0.41
46:TL:230:SER:HA	46:TL:233:MET:HE3	2.02	0.41
46:TN:68:LEU:HD12	46:TN:93:GLY:HA3	2.03	0.41
46:TN:207:LEU:HD13	46:TN:225:LEU:HB3	2.01	0.41
45:UA:208:ALA:O	45:UA:212:ILE:HG12	2.21	0.41
46:UB:121:ARG:O	46:UB:125:GLU:OE1	2.39	0.41
46:UB:129:CYS:SG	45:UC:96:LYS:HE3	2.61	0.41
45:UC:297:GLU:HG2	45:UC:298:PRO:HD2	2.03	0.41
45:UC:429:GLU:O	45:UC:433:GLU:HG2	2.20	0.41
46:UD:7:ILE:HG23	46:UD:135:ILE:HG12	2.03	0.41
46:UD:421:GLU:HA	46:UD:424:GLN:HB3	2.03	0.41
45:UE:96:LYS:HD3	45:UE:96:LYS:HA	1.80	0.41
45:UE:237:SER:O	45:UE:318:MET:HE2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:UE:252:ILE:HA	45:UE:255:PHE:CD1	2.56	0.41
46:UF:61:PRO:CD	46:UF:84:LEU:HB3	2.51	0.41
46:UF:180:VAL:HG23	46:UF:183:TYR:HD2	1.86	0.41
46:UF:294:PHE:CE2	46:UF:333:VAL:HG11	2.56	0.41
46:UF:297:LYS:NZ	46:UF:306:ARG:HH22	2.19	0.41
46:UF:297:LYS:HZ2	46:UF:306:ARG:HH22	1.68	0.41
46:UF:321:MET:HE3	45:UG:221:ARG:HD3	2.02	0.41
45:UG:326:LYS:HE3	45:UG:326:LYS:HB3	1.89	0.41
46:UH:297:LYS:H	46:UH:297:LYS:HD2	1.85	0.41
45:UI:71:GLU:HA	45:UI:72:PRO:HD3	1.89	0.41
45:UI:200:VAL:HG13	45:UI:268:MET:CE	2.51	0.41
45:UI:205:ASP:OD1	45:UI:303:ALA:HA	2.20	0.41
46:UJ:44:LEU:HA	46:UJ:47:ILE:HG23	2.03	0.41
46:UJ:143:THR:HB	49:UJ:501:GDP:PB	2.60	0.41
46:UJ:256:ASN:HB3	46:UJ:350:LYS:NZ	2.36	0.41
46:UJ:258:ILE:HG23	45:UK:407:TRP:HE1	1.85	0.41
46:UJ:345:ILE:O	46:UJ:345:ILE:HG23	2.21	0.41
45:UK:238:LEU:HD12	45:UK:239:THR:HG23	2.02	0.41
46:UL:7:ILE:HD13	46:UL:151:LEU:HD21	2.03	0.41
46:UN:69:GLU:CD	46:UN:71:GLY:H	2.24	0.41
46:VB:313:ALA:HB1	46:VB:367:PHE:CE1	2.50	0.41
45:VC:151:SER:O	45:VC:154:LEU:HG	2.21	0.41
45:VE:26:LEU:HD22	45:VE:364:PRO:HD2	2.03	0.41
45:VE:31:GLN:NE2	45:VE:37:PRO:HG3	2.26	0.41
45:VE:221:ARG:NH1	46:VF:325:GLU:HG2	2.36	0.41
45:VE:398:MET:HE1	46:VF:345:ILE:HA	2.03	0.41
46:VF:100:ASN:HB3	46:VF:103:LYS:HG3	2.02	0.41
46:VF:101:TRP:HD1	46:VF:145:SER:OG	2.04	0.41
46:VF:108:GLU:O	46:VF:111:GLU:HG3	2.20	0.41
46:VF:257:LEU:HB3	46:VF:266:PHE:CZ	2.56	0.41
46:VF:396:HIS:HA	46:VF:399:THR:OG1	2.21	0.41
45:VG:250:VAL:HG13	45:VG:254:GLU:HB2	2.02	0.41
45:VI:271:SER:HB2	45:VI:377:MET:CG	2.50	0.41
46:VJ:233:MET:O	46:VJ:236:VAL:HG12	2.20	0.41
45:VK:265:ILE:HG22	45:VK:432:TYR:CE1	2.53	0.41
45:VK:407:TRP:CG	46:VL:255:VAL:HG23	2.55	0.41
46:VL:204:ASN:ND2	49:VL:501:GDP:O2'	2.53	0.41
46:VN:319:GLY:O	46:VN:355:ASP:HA	2.21	0.41
45:WA:17:GLY:HA2	45:WA:20:CYS:SG	2.61	0.41
45:WA:172:TYR:OH	45:WA:191:THR:OG1	2.25	0.41
45:WA:251:ASP:H	45:WA:254:GLU:CD	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WA:254:GLU:HA	45:WA:257:THR:OG1	2.21	0.41
46:WB:292:GLN:HA	46:WB:295:ASP:OD2	2.21	0.41
46:WB:318:ARG:HB2	46:WB:364:ALA:HB3	2.03	0.41
45:WC:72:PRO:O	45:WC:76:ASP:HB2	2.21	0.41
45:WC:212:ILE:HD13	45:WC:215:ARG:NH1	2.34	0.41
45:WC:215:ARG:NH2	45:WC:300:ASN:OD1	2.54	0.41
46:WD:81:PHE:HD2	46:WD:84:LEU:HD11	1.86	0.41
46:WD:343:GLU:OE2	46:WD:430:ALA:N	2.51	0.41
45:WE:104:ALA:HB2	45:WE:413:MET:SD	2.61	0.41
45:WE:118:CYS:SG	45:WE:153:LEU:HD11	2.60	0.41
46:WF:175:VAL:CG2	46:WF:205:GLU:HB2	2.51	0.41
46:WF:380:ARG:HA	46:WF:383:GLU:HG3	2.03	0.41
46:WH:258:ILE:HG13	46:WH:258:ILE:O	2.21	0.41
46:WH:391:ARG:HD2	46:WH:391:ARG:HA	1.80	0.41
46:WH:398:TYR:O	46:WH:403:MET:HB2	2.21	0.41
46:WH:409:THR:O	46:WH:412:GLU:HG3	2.21	0.41
45:WI:172:TYR:CD1	45:WI:173:PRO:HD2	2.53	0.41
45:WI:289:ALA:O	45:WI:292:THR:HG22	2.21	0.41
46:WJ:260:PHE:CE2	46:WJ:425:TYR:HE2	2.39	0.41
45:WK:21:TRP:CE3	45:WK:24:PHE:HD2	2.39	0.41
45:WK:41:THR:CG2	45:WK:42:ILE:H	2.30	0.41
45:WK:214:ARG:HH12	45:WK:220:GLU:HG3	1.85	0.41
46:WL:66:MET:HA	46:WL:91:VAL:HG23	2.03	0.41
46:WL:229:VAL:O	46:WL:233:MET:HG2	2.19	0.41
45:WM:51:THR:HG21	45:WM:243:ARG:HD3	2.03	0.41
45:WM:205:ASP:OD1	45:WM:303:ALA:HA	2.21	0.41
46:WN:16:ILE:HD13	46:WN:226:ASN:ND2	2.35	0.41
45:CE:239:THR:HG23	45:CE:243:ARG:HE	1.84	0.41
45:CE:335:ILE:HD11	45:CE:341:ILE:HG13	2.02	0.41
45:DC:71:GLU:OE1	45:DC:73:THR:OG1	2.29	0.41
45:DC:145:THR:HG22	47:DC:501:GTP:PG	2.60	0.41
12:0T:146:MET:CE	46:MB:402:GLY:HA2	2.50	0.41
15:0X:83:MET:HE3	34:7R:47:GLU:HB2	2.02	0.41
20:1K:212:ARG:NH2	45:GA:370:LYS:O	2.53	0.41
21:1L:151:ARG:HD2	46:CH:360:GLY:H	1.84	0.41
14:1V:51:LEU:HB3	45:LI:116:ASP:OD2	2.20	0.41
15:1X:18:ILE:HD11	46:MH:81:PHE:HE1	1.84	0.41
31:2I:55:LYS:NZ	46:FH:114:ASP:OD2	2.54	0.41
31:2I:94:PRO:O	46:GF:332:ASN:ND2	2.53	0.41
23:2O:214:ILE:CD1	40:6G:87:LYS:HD3	2.50	0.41
32:3D:6:LYS:NZ	46:KD:37:HIS:HA	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:3Q:6:PHE:HB2	45:WG:121:ARG:HH12	1.84	0.41
34:4R:246:GLN:HE21	45:BE:59:GLY:N	2.19	0.41
35:4S:69:TYR:HA	35:4S:74:LEU:HD13	2.03	0.41
15:4X:2:LYS:HA	15:4X:2:LYS:HD2	1.90	0.41
37:5E:54:LYS:HE3	46:OB:227:HIS:CB	2.51	0.41
37:5G:61:LYS:N	46:OJ:276:ARG:HH22	2.17	0.41
10:5Q:135:ASN:O	10:5Q:137:SER:N	2.53	0.41
35:5S:178:ALA:O	35:5S:181:PRO:HD2	2.21	0.41
10:6Q:83:LEU:H	10:6Q:83:LEU:HD23	1.85	0.41
34:6R:336:CYS:HA	34:6R:349:ILE:HB	2.03	0.41
34:7R:491:GLN:HB3	34:7R:494:GLU:HG3	2.03	0.41
46:AB:20:PHE:CE1	46:AB:233:MET:HB3	2.56	0.41
45:AE:209:ILE:H	45:AE:209:ILE:HG13	1.73	0.41
45:AE:326:LYS:HG3	45:AE:327:ASP:N	2.35	0.41
45:AE:396:ASP:HB3	45:AE:422:ARG:NH1	2.35	0.41
46:AF:131:GLN:O	46:AF:163:ILE:HG12	2.21	0.41
45:AG:137:VAL:HG13	45:AG:168:GLY:HA2	2.03	0.41
45:AK:19:ALA:O	45:AK:22:GLU:HG2	2.21	0.41
45:AK:56:THR:HG23	45:AK:58:ALA:H	1.86	0.41
45:BE:17:GLY:HA2	45:BE:20:CYS:SG	2.61	0.41
45:BE:141:VAL:HG22	45:BE:187:SER:HA	2.03	0.41
45:BE:387:VAL:HG12	45:BE:390:ARG:NH1	2.35	0.41
45:BG:241:SER:HA	45:BG:356:ASN:HD22	1.86	0.41
46:BH:332:ASN:HA	46:BH:336:LYS:HZ3	1.84	0.41
46:BL:116:VAL:HA	46:BL:119:VAL:HG12	2.02	0.41
45:BM:336:LYS:HD3	45:BM:351:PHE:HE1	1.86	0.41
45:BM:427:ALA:O	45:BM:430:LYS:HG3	2.21	0.41
46:BN:214:THR:HG23	46:BN:297:LYS:HE2	2.03	0.41
46:BN:385:PHE:CE2	46:BN:412:GLU:HB3	2.56	0.41
45:CA:276:ILE:HD11	45:CA:280:LYS:HB3	2.03	0.41
45:CC:250:VAL:HG13	45:CC:254:GLU:HB2	2.02	0.41
46:CD:66:MET:SD	46:CD:116:VAL:HG21	2.61	0.41
46:CD:116:VAL:HA	46:CD:119:VAL:HG12	2.03	0.41
46:CF:8:GLN:O	46:CF:66:MET:HG3	2.21	0.41
46:CH:148:GLY:O	46:CH:152:ILE:HG13	2.21	0.41
46:CH:344:TRP:HB3	46:CH:430:ALA:HB2	2.03	0.41
46:CJ:285:THR:HB	46:CJ:287:PRO:HD2	2.03	0.41
46:CL:346:PRO:HD2	45:CM:398:MET:HE1	2.03	0.41
45:CM:188:ILE:HG13	45:CM:425:LEU:HD11	2.02	0.41
46:CN:21:TRP:CZ2	46:CN:63:ALA:HB2	2.56	0.41
46:CN:114:ASP:OD1	46:CN:115:SER:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:399:THR:HA	46:CN:403:MET:O	2.20	0.41
46:DB:77:ARG:NH1	46:DB:82:GLY:O	2.54	0.41
46:DB:218:THR:HG22	46:DB:219:THR:HG23	2.02	0.41
46:DB:258:ILE:O	45:DC:407:TRP:NE1	2.47	0.41
46:DD:67:ASP:O	46:DD:92:PHE:HA	2.21	0.41
45:DE:377:MET:SD	45:DE:379:SER:HB2	2.61	0.41
45:DG:118:CYS:SG	45:DG:153:LEU:HD11	2.61	0.41
45:DG:326:LYS:HZ2	46:DH:220:PRO:CD	2.34	0.41
46:DH:105:HIS:CD2	46:DH:150:LEU:HB2	2.56	0.41
46:DH:418:LEU:HD12	46:DH:421:GLU:OE2	2.21	0.41
45:DI:141:VAL:HG11	45:DI:172:TYR:HA	2.03	0.41
45:DK:370:LYS:C	45:DK:370:LYS:HD3	2.41	0.41
46:DL:73:MET:HB2	46:DL:90:PHE:CE1	2.56	0.41
46:DN:97:ALA:HB3	46:DN:143:THR:HB	2.02	0.41
45:EC:184:PRO:O	45:EC:188:ILE:HG12	2.21	0.41
45:EC:429:GLU:O	45:EC:433:GLU:HG2	2.21	0.41
46:ED:20:PHE:HE1	46:ED:234:SER:HB3	1.85	0.41
46:ED:289:LEU:O	46:ED:293:MET:HB2	2.21	0.41
45:EI:71:GLU:HA	45:EI:72:PRO:HD3	1.80	0.41
46:EJ:282:ARG:HA	46:EJ:282:ARG:HD2	1.81	0.41
45:EK:338:LYS:HZ2	45:EK:340:THR:HG22	1.85	0.41
45:EK:419:SER:O	45:EK:422:ARG:N	2.52	0.41
45:EM:434:GLU:O	45:EM:437:ILE:HG12	2.21	0.41
46:EN:385:PHE:HZ	46:EN:408:PHE:HD1	1.69	0.41
46:FB:66:MET:HE1	46:FB:116:VAL:HG21	2.03	0.41
46:FB:221:THR:HG23	46:FB:224:ASP:H	1.85	0.41
45:FC:384:ILE:O	45:FC:387:VAL:HG22	2.20	0.41
45:FC:398:MET:CE	46:FD:346:PRO:HD2	2.51	0.41
46:FD:417:ASP:O	46:FD:421:GLU:HG2	2.21	0.41
45:FE:326:LYS:HD2	46:FH:220:PRO:HD2	2.04	0.41
46:FF:294:PHE:HE1	46:FF:367:PHE:CE1	2.39	0.41
46:FH:68:LEU:HB3	46:FH:96:GLY:HA2	2.03	0.41
46:FH:99:ASN:HA	46:FH:142:GLY:H	1.86	0.41
46:FJ:336:LYS:HD2	46:FJ:337:ASN:OD1	2.21	0.41
46:FL:19:LYS:O	46:FL:23:VAL:HG23	2.21	0.41
46:FL:318:ARG:HH11	46:FL:358:PRO:HG3	1.86	0.41
45:FM:269:LEU:HD23	45:FM:379:SER:O	2.22	0.41
46:FN:149:THR:HA	46:FN:152:ILE:HD12	2.02	0.41
45:GA:176:GLN:O	46:GB:347:ASN:ND2	2.49	0.41
46:GB:65:LEU:HD22	46:GB:90:PHE:CE1	2.56	0.41
46:GD:41:ASP:O	46:GD:45:GLU:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GD:258:ILE:HG13	46:GD:266:PHE:HZ	1.85	0.41
45:GE:406:HIS:CE1	45:GE:407:TRP:CD1	3.09	0.41
46:GF:233:MET:O	46:GF:236:VAL:HG12	2.21	0.41
45:GG:68:LEU:HD11	45:GG:118:CYS:HB2	2.03	0.41
45:GG:208:ALA:HB1	45:GG:301:MET:O	2.21	0.41
46:GH:342:VAL:HG13	46:GH:345:ILE:HG22	2.03	0.41
46:GN:69:GLU:HA	46:GN:70:PRO:HD3	1.88	0.41
46:GN:274:THR:HB	46:GN:282:ARG:NH1	2.36	0.41
45:HA:289:ALA:O	45:HA:292:THR:HG22	2.21	0.41
46:HB:3:GLU:N	46:HB:131:GLN:HE22	2.19	0.41
46:HB:237:THR:HA	46:HB:240:LEU:HD13	2.02	0.41
45:HC:31:GLN:HG3	45:HC:37:PRO:HD3	2.03	0.41
45:HG:156:ARG:HD3	45:HG:156:ARG:HA	1.90	0.41
46:HH:68:LEU:HD23	46:HH:143:THR:OG1	2.21	0.41
46:HH:372:THR:HA	46:HH:422:TYR:HE1	1.86	0.41
46:HJ:28:HIS:C	46:HJ:43:GLN:HE21	2.24	0.41
46:HJ:159:TYR:HB3	46:HJ:162:ARG:HG2	2.02	0.41
45:HK:124:LYS:HB2	45:HK:124:LYS:HE2	1.79	0.41
45:HK:319:TYR:CB	45:HK:323:VAL:HG21	2.51	0.41
46:HL:135:ILE:HD12	46:HL:152:ILE:HD11	2.02	0.41
45:IA:258:ASN:CB	45:IA:352:LYS:HD2	2.50	0.41
45:IA:420:GLU:HA	45:IA:423:GLU:OE2	2.21	0.41
46:IB:391:ARG:HA	46:IB:391:ARG:HD2	1.78	0.41
46:ID:46:ARG:HD3	46:ID:46:ARG:HA	1.87	0.41
45:IE:32:PRO:HB3	45:IE:83:TYR:CE1	2.55	0.41
46:IF:233:MET:O	46:IF:236:VAL:HG12	2.21	0.41
46:IF:395:LEU:O	46:IF:399:THR:HG23	2.21	0.41
45:IG:393:HIS:O	45:IG:397:LEU:HD23	2.20	0.41
45:II:55:GLU:OE1	45:II:61:HIS:NE2	2.53	0.41
45:IK:336:LYS:HE3	45:IK:336:LYS:HB2	1.87	0.41
46:IL:31:ASP:OD2	46:IL:37:HIS:ND1	2.54	0.41
45:IM:56:THR:HG22	45:IM:60:LYS:O	2.21	0.41
45:IM:60:LYS:HE2	46:JN:281:TYR:CE1	2.56	0.41
45:IM:98:ASP:OD1	45:IM:99:ALA:N	2.54	0.41
45:IM:112:LYS:HD3	45:IM:112:LYS:N	2.36	0.41
45:IM:275:ILE:O	45:IM:275:ILE:HG13	2.20	0.41
46:IN:386:THR:O	46:IN:390:ARG:HG3	2.21	0.41
46:IN:388:MET:HE3	46:IN:388:MET:HB2	1.65	0.41
45:JA:67:PHE:HE2	45:JA:87:PHE:CE2	2.39	0.41
45:JA:100:ALA:O	46:JB:255:VAL:HG21	2.20	0.41
46:JF:27:GLU:OE1	46:JF:359:LYS:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:JF:113:ILE:HD13	46:JF:150:LEU:HD22	2.03	0.41
45:JG:3:GLU:HB2	45:JG:129:CYS:SG	2.61	0.41
45:JI:407:TRP:CE3	46:JJ:255:VAL:HG22	2.56	0.41
46:JJ:134:GLN:HA	46:JJ:165:GLU:O	2.20	0.41
45:KA:121:ARG:HD2	45:KA:121:ARG:HA	1.74	0.41
45:KA:296:PHE:HE2	45:KA:377:MET:SD	2.44	0.41
46:KB:87:PRO:HA	46:KB:90:PHE:HD2	1.85	0.41
46:KD:141:GLY:O	46:KD:145:SER:HB3	2.21	0.41
46:KD:178:THR:OG1	46:KD:181:GLU:HB3	2.21	0.41
45:KE:140:SER:HA	45:KE:171:ILE:HB	2.03	0.41
46:KF:289:LEU:HD13	46:KF:365:VAL:HG23	2.03	0.41
45:KG:51:THR:HG23	45:KG:52:PHE:HD1	1.86	0.41
46:KH:268:ILE:HG22	46:KH:368:VAL:HG22	2.03	0.41
46:KJ:213:ARG:HD2	46:KJ:297:LYS:HD3	2.02	0.41
45:KM:308:ARG:HG3	45:NM:282:TYR:CZ	2.56	0.41
45:KM:407:TRP:CZ2	46:KN:258:ILE:HD11	2.56	0.41
46:KN:173:PRO:HG3	46:KN:384:GLN:HE22	1.86	0.41
45:LA:155:GLU:HG2	45:LA:197:HIS:CD2	2.55	0.41
46:LD:16:ILE:HD13	46:LD:226:ASN:OD1	2.21	0.41
46:LH:164:MET:O	46:LH:197:ASP:HB2	2.21	0.41
45:LI:286:LEU:HD12	45:LI:371:VAL:HG21	2.02	0.41
46:LJ:8:GLN:NE2	46:LJ:17:GLY:HA3	2.36	0.41
46:LJ:164:MET:O	46:LJ:197:ASP:HB2	2.21	0.41
45:LK:123:ARG:HA	45:LK:123:ARG:HD3	1.88	0.41
45:LK:179:THR:O	46:LL:350:LYS:HA	2.21	0.41
45:MA:88:HIS:HB3	45:MA:91:GLN:HG2	2.03	0.41
46:MB:9:GLY:HA2	46:MB:66:MET:O	2.21	0.41
45:MC:109:THR:HB	45:MC:110:ILE:HD12	2.03	0.41
46:MD:36:TYR:OH	46:MD:44:LEU:HD11	2.20	0.41
46:MD:330:MET:CE	46:MD:349:ILE:HG21	2.50	0.41
46:MF:391:ARG:HA	46:MF:391:ARG:HD2	1.78	0.41
45:MG:222:PRO:O	46:MH:322:SER:HB2	2.21	0.41
45:MI:265:ILE:HG22	45:MI:380:ASN:HD21	1.86	0.41
45:MM:208:ALA:O	45:MM:212:ILE:HG12	2.20	0.41
45:NA:176:GLN:HG2	45:NA:177:VAL:HG13	2.03	0.41
45:NA:288:VAL:O	45:NA:291:ILE:HG22	2.21	0.41
45:NA:387:VAL:HA	45:NA:390:ARG:HG2	2.02	0.41
46:NB:3:GLU:HB2	46:NB:62:ARG:NH2	2.36	0.41
46:NB:207:LEU:O	46:NB:210:ILE:HG22	2.20	0.41
46:ND:16:ILE:HD13	46:ND:226:ASN:OD1	2.21	0.41
46:ND:21:TRP:CD1	46:ND:85:PHE:HZ	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:ND:222:TYR:O	46:ND:226:ASN:ND2	2.24	0.41
45:NE:208:ALA:O	45:NE:212:ILE:HG12	2.20	0.41
46:NH:20:PHE:O	46:NH:24:ILE:HG12	2.20	0.41
46:NH:31:ASP:HB2	46:NH:32:PRO:HD2	2.03	0.41
46:NH:31:ASP:OD1	46:NH:35:THR:HB	2.22	0.41
46:NH:139:LEU:HD13	46:NH:168:SER:HB3	2.03	0.41
46:NJ:91:VAL:HG21	46:NJ:116:VAL:HB	2.02	0.41
45:NK:319:TYR:HB3	45:NK:323:VAL:HG21	2.02	0.41
46:NL:117:LEU:HA	46:NL:120:VAL:HG12	2.03	0.41
45:NM:109:THR:OG1	45:NM:110:ILE:HG13	2.19	0.41
45:OA:294:SER:HA	45:OA:297:GLU:HG3	2.03	0.41
46:OB:113:ILE:HG12	46:OB:117:LEU:CD2	2.46	0.41
46:OB:267:MET:HE2	46:OB:267:MET:HB2	1.93	0.41
46:OB:361:LEU:HD23	46:OB:361:LEU:HA	1.92	0.41
46:OF:226:ASN:ND2	49:OF:502:GDP:HN1	2.15	0.41
46:OF:276:ARG:HD3	46:OF:279:GLN:NE2	2.36	0.41
46:OH:32:PRO:HA	46:OH:84:LEU:HD11	2.02	0.41
45:OI:6:SER:O	45:OI:65:ALA:HA	2.21	0.41
45:OK:71:GLU:HB2	45:OK:98:ASP:HB2	2.03	0.41
45:PA:76:ASP:OD1	45:PA:77:GLU:N	2.53	0.41
45:PA:425:LEU:HD23	45:PA:425:LEU:HA	1.92	0.41
46:PB:310:TYR:CD2	46:PB:341:PHE:HE1	2.38	0.41
46:PD:48:ASN:O	46:PD:62:ARG:NH2	2.54	0.41
45:PG:352:LYS:NZ	46:PJ:178:THR:HG23	2.36	0.41
45:PK:306:ASP:HB3	45:PK:309:HIS:CD2	2.56	0.41
45:PK:416:GLY:O	45:PK:419:SER:OG	2.33	0.41
46:PL:399:THR:HA	46:PL:403:MET:O	2.20	0.41
45:PM:319:TYR:CZ	45:PM:328:VAL:HG22	2.55	0.41
45:QA:202:VAL:HG22	45:QA:268:MET:HE3	2.02	0.41
46:QB:65:LEU:HD12	46:QB:90:PHE:CE2	2.56	0.41
46:QD:392:LYS:HA	46:QD:395:LEU:HD13	2.03	0.41
46:QF:101:TRP:HB2	46:QF:184:ASN:HB3	2.02	0.41
46:QF:252:LYS:HZ3	45:QG:100:ALA:HA	1.85	0.41
46:QF:287:PRO:HA	46:QF:329:GLN:NE2	2.32	0.41
45:QG:17:GLY:HA2	45:QG:20:CYS:SG	2.61	0.41
45:QG:231:ILE:O	45:QG:235:ILE:HG12	2.22	0.41
46:QH:69:GLU:HA	46:QH:70:PRO:HD3	1.86	0.41
46:QH:294:PHE:CD1	46:QH:333:VAL:HG21	2.55	0.41
46:QJ:331:LEU:HD11	45:QK:176:GLN:O	2.21	0.41
45:QK:182:VAL:HG22	45:QK:182:VAL:O	2.21	0.41
45:QM:174:SER:HB2	45:QM:177:VAL:HB	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QN:201:VAL:HG22	46:QN:266:PHE:O	2.21	0.41
45:RA:21:TRP:CE3	45:RA:21:TRP:HA	2.56	0.41
46:RD:280:GLN:HG2	46:RD:281:TYR:HD2	1.86	0.41
46:RF:9:GLY:CA	46:RF:66:MET:HB3	2.51	0.41
46:RF:259:PRO:HG3	45:RG:404:PHE:CZ	2.56	0.41
46:RF:324:LYS:HG3	46:RF:325:GLU:N	2.36	0.41
45:RI:345:ASP:OD2	45:RI:346:TRP:N	2.54	0.41
46:RJ:19:LYS:NZ	46:RJ:227:HIS:HB2	2.35	0.41
46:RL:16:ILE:HD13	46:RL:226:ASN:OD1	2.21	0.41
46:RL:152:ILE:HG23	46:RL:164:MET:CE	2.51	0.41
45:SC:156:ARG:HG3	45:SC:160:ASP:OD2	2.21	0.41
46:SD:238:CYS:SG	46:SD:318:ARG:HD2	2.61	0.41
46:SD:324:LYS:O	46:SD:328:GLU:OE1	2.39	0.41
45:SE:287:SER:HB3	45:SE:290:GLU:HG2	2.03	0.41
46:SF:187:LEU:HD11	46:SF:408:PHE:HE1	1.86	0.41
46:SF:268:ILE:HG13	46:SF:300:MET:HE2	2.02	0.41
46:SF:378:PHE:O	46:SF:415:MET:HE1	2.21	0.41
45:SG:150:GLY:O	45:SG:154:LEU:HD23	2.20	0.41
46:SH:97:ALA:HB3	46:SH:143:THR:HB	2.03	0.41
45:SI:31:GLN:NE2	45:SI:37:PRO:HB3	2.36	0.41
45:SI:326:LYS:NZ	46:SJ:212:PHE:HB2	2.35	0.41
46:SJ:102:ALA:HB2	46:SJ:398:TYR:HD1	1.86	0.41
46:SJ:321:MET:N	46:SJ:321:MET:SD	2.93	0.41
45:SK:317:MET:HB3	45:SK:317:MET:HE3	1.96	0.41
46:SL:1:MET:HE3	45:SM:96:LYS:HA	2.01	0.41
46:SL:189:VAL:O	46:SL:193:VAL:HG13	2.21	0.41
46:SL:342:VAL:HG22	46:SL:344:TRP:CD1	2.56	0.41
45:SM:141:VAL:HG22	45:SM:187:SER:HA	2.01	0.41
46:TB:20:PHE:HA	46:TB:230:SER:HB2	2.03	0.41
46:TB:256:ASN:HB2	46:TB:350:LYS:NZ	2.36	0.41
46:TD:210:ILE:O	46:TD:214:THR:OG1	2.18	0.41
46:TF:384:GLN:O	46:TF:388:MET:HG2	2.21	0.41
46:TH:175:VAL:HG22	46:TH:205:GLU:HB2	2.02	0.41
45:TI:88:HIS:ND1	45:TI:91:GLN:HG3	2.35	0.41
45:TI:135:PHE:HB2	45:TI:166:LYS:HG3	2.03	0.41
45:TI:276:ILE:HD11	45:TI:280:LYS:HG3	2.03	0.41
46:TL:257:LEU:HD11	46:TL:314:SER:HB3	2.02	0.41
46:TL:258:ILE:HG13	46:TL:266:PHE:HZ	1.86	0.41
46:TL:328:GLU:OE1	46:TL:329:GLN:HG2	2.20	0.41
45:TM:21:TRP:CZ2	45:TM:65:ALA:HB2	2.55	0.41
45:TM:145:THR:HG22	47:TM:501:GTP:PG	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TM:188:ILE:HD11	45:TM:391:LEU:HB3	2.03	0.41
45:TM:434:GLU:O	45:TM:437:ILE:HG12	2.20	0.41
46:TN:182:PRO:HG3	46:TN:384:GLN:CD	2.41	0.41
46:UD:324:LYS:HE3	45:UE:210:TYR:HD1	1.85	0.41
46:UF:55:THR:HG23	46:VF:283:ALA:HA	2.03	0.41
46:UH:4:ILE:HD11	46:UH:131:GLN:HB2	2.02	0.41
46:UH:164:MET:CE	46:UH:196:ALA:HA	2.51	0.41
45:UI:326:LYS:NZ	46:UJ:220:PRO:HD2	2.36	0.41
45:VA:50:ASN:O	45:VA:64:ARG:NH1	2.54	0.41
45:VA:175:PRO:HG3	45:VA:390:ARG:NH1	2.36	0.41
45:VA:387:VAL:O	45:VA:391:LEU:HD23	2.21	0.41
45:VC:88:HIS:HB3	45:VC:91:GLN:HG2	2.02	0.41
45:VC:282:TYR:OH	45:VC:370:LYS:O	2.22	0.41
46:VD:183:TYR:CE1	46:VD:388:MET:HE3	2.56	0.41
45:VE:36:MET:HB2	45:VE:61:HIS:CE1	2.56	0.41
46:VF:267:MET:HE2	46:VF:299:MET:SD	2.61	0.41
46:VH:273:LEU:N	46:VH:292:GLN:HE22	2.06	0.41
46:VJ:173:PRO:HD3	46:VJ:380:ARG:NH1	2.35	0.41
45:VK:316:SER:HA	45:VK:352:LYS:HB2	2.02	0.41
46:VL:201:VAL:HG23	46:VL:301:CYS:SG	2.61	0.41
45:WA:21:TRP:CZ2	45:WA:65:ALA:HB2	2.56	0.41
45:WA:349:THR:HG21	46:WD:181:GLU:OE2	2.21	0.41
45:WC:252:ILE:HA	45:WC:255:PHE:HD2	1.85	0.41
46:WD:271:ALA:HB3	46:WD:365:VAL:HB	2.02	0.41
45:WG:167:LEU:HG	45:WG:200:VAL:HB	2.03	0.41
46:WH:321:MET:HE3	46:WH:326:VAL:HG23	2.03	0.41
46:WH:396:HIS:CD2	46:WH:397:TRP:CD1	3.09	0.41
46:WJ:201:VAL:HG23	46:WJ:301:CYS:SG	2.61	0.41
45:WK:68:LEU:HD21	45:WK:118:CYS:CB	2.51	0.41
46:WL:63:ALA:O	46:WL:89:ASN:ND2	2.53	0.41
46:WL:108:GLU:O	46:WL:111:GLU:HG3	2.20	0.41
46:WL:149:THR:HA	46:WL:152:ILE:HD12	2.02	0.41
23:1O:270:ASN:HB2	45:UA:278:ALA:HB1	2.01	0.40
4:2D:177:THR:HG22	46:EJ:48:ASN:OD1	2.20	0.40
28:2F:61:THR:HG21	46:GF:74:ASP:HB2	2.03	0.40
14:2V:106:TYR:HB2	45:LE:420:GLU:OE1	2.21	0.40
21:3L:45:ARG:HD3	46:BB:362:LYS:HG2	2.03	0.40
34:4R:12:LEU:C	46:LF:227:HIS:HE1	2.24	0.40
34:4R:226:LYS:O	34:4R:230:GLU:HG3	2.21	0.40
36:5A:150:PHE:HE1	45:NC:26:LEU:HD11	1.86	0.40
36:5B:73:SER:OG	36:5B:74:SER:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:5B:74:SER:O	36:5B:75:TYR:HD2	2.04	0.40
37:5E:176:ASP:O	37:5E:180:THR:HG23	2.20	0.40
37:5E:209:ARG:HH22	45:LC:264:ARG:HH12	1.68	0.40
37:5F:16:GLN:HG2	37:5F:22:LYS:NZ	2.36	0.40
37:5G:172:ASN:OD1	37:5G:172:ASN:N	2.53	0.40
37:5H:29:LYS:NZ	45:OK:219:ILE:HD13	2.36	0.40
37:5H:61:LYS:HG2	46:ON:276:ARG:NH2	2.36	0.40
34:5R:32:THR:HA	45:LG:1:MET:CE	2.50	0.40
34:5R:318:TYR:OH	46:CJ:273:LEU:HA	2.21	0.40
34:5R:389:ASN:OD1	34:5R:390:GLY:N	2.54	0.40
39:6F:68:TRP:CD1	39:6F:68:TRP:N	2.88	0.40
40:6G:217:TYR:HA	40:6G:220:LEU:HG	2.02	0.40
40:6G:265:LEU:N	40:6G:266:PRO:HD3	2.36	0.40
40:6G:268:VAL:HG21	40:6G:271:TYR:CE2	2.56	0.40
41:6H:276:ILE:H	41:6H:276:ILE:HD12	1.85	0.40
41:6H:286:GLU:HG3	41:6H:289:LYS:H	1.85	0.40
34:6R:13:PRO:HA	46:LN:227:HIS:ND1	2.36	0.40
34:6R:121:TYR:HB2	34:6R:126:THR:HG22	2.02	0.40
34:6R:224:ASN:O	34:6R:227:GLU:HG3	2.20	0.40
34:6R:495:ILE:HA	34:6R:503:PHE:O	2.21	0.40
34:7R:567:ASN:OD1	34:7R:568:ASP:N	2.54	0.40
45:AA:179:THR:O	46:AB:350:LYS:HA	2.21	0.40
45:AA:288:VAL:HG23	45:AA:319:TYR:HE2	1.86	0.40
45:AC:71:GLU:OE2	45:AC:73:THR:OG1	2.36	0.40
46:AD:8:GLN:HE21	46:AD:65:LEU:CD1	2.34	0.40
46:AD:40:SER:O	46:AD:43:GLN:HG3	2.20	0.40
46:AD:139:LEU:HD13	46:AD:168:SER:HB3	2.02	0.40
46:AF:130:LEU:HD12	46:AF:130:LEU:HA	1.95	0.40
46:AF:262:ARG:NH1	46:AF:421:GLU:HG3	2.36	0.40
46:AJ:69:GLU:HA	46:AJ:70:PRO:HD3	1.89	0.40
45:AM:21:TRP:HZ2	45:AM:65:ALA:HB2	1.86	0.40
46:AN:7:ILE:HG21	46:AN:151:LEU:HD21	2.03	0.40
46:AN:116:VAL:O	46:AN:120:VAL:HG23	2.21	0.40
46:AN:133:PHE:HB2	46:AN:164:MET:SD	2.62	0.40
46:BB:316:LEU:HG	46:BB:352:SER:OG	2.21	0.40
45:BC:11:GLN:HE21	45:BC:15:GLN:NE2	2.17	0.40
45:BC:17:GLY:HA2	45:BC:20:CYS:SG	2.60	0.40
46:BF:5:VAL:HG12	46:BF:62:ARG:HD3	2.04	0.40
46:BF:6:HIS:O	46:BF:63:ALA:HA	2.21	0.40
46:BF:347:ASN:C	46:BF:347:ASN:HD22	2.24	0.40
45:BG:210:TYR:CE2	46:BH:324:LYS:HD3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BK:5:ILE:O	45:BK:135:PHE:HA	2.22	0.40
45:BK:227:LEU:O	45:BK:231:ILE:HG12	2.20	0.40
45:BK:311:LYS:HD2	45:BK:343:PHE:C	2.41	0.40
45:BM:265:ILE:HG22	45:BM:432:TYR:CE1	2.56	0.40
46:BN:247:ASN:O	46:BN:252:LYS:NZ	2.33	0.40
45:CA:107:HIS:O	45:CA:107:HIS:ND1	2.54	0.40
45:CA:225:THR:C	45:CA:229:ARG:HE	2.25	0.40
46:CB:268:ILE:O	46:CB:300:MET:HB2	2.20	0.40
46:CF:175:VAL:O	46:CF:175:VAL:HG23	2.21	0.40
46:CF:375:GLN:O	46:CF:379:LYS:HG3	2.21	0.40
45:CI:133:GLN:HB3	45:CI:252:ILE:HD11	2.03	0.40
45:CI:194:LEU:HD13	45:CI:198:THR:HG21	2.03	0.40
46:CJ:175:VAL:HG23	46:CJ:175:VAL:O	2.20	0.40
46:CJ:318:ARG:HH11	46:CJ:358:PRO:HG3	1.85	0.40
45:CK:368:LEU:H	45:CK:368:LEU:HD12	1.85	0.40
46:CL:267:MET:CE	46:CL:301:CYS:HB2	2.51	0.40
46:CL:375:GLN:C	46:CL:379:LYS:HZ2	2.24	0.40
45:CM:326:LYS:NZ	46:CN:220:PRO:HB2	2.36	0.40
45:DE:301:MET:CE	45:DE:307:PRO:HD3	2.51	0.40
46:DF:256:ASN:ND2	46:DF:350:LYS:HD3	2.36	0.40
46:DF:324:LYS:HB2	46:DF:324:LYS:HE2	1.69	0.40
45:DG:91:GLN:HA	45:DG:121:ARG:HD3	2.03	0.40
46:DJ:48:ASN:HA	46:DJ:51:TYR:O	2.21	0.40
45:DK:5:ILE:HB	45:DK:135:PHE:CD1	2.56	0.40
45:DK:241:SER:HB2	45:DK:249:ASN:HD22	1.86	0.40
46:DL:2:ARG:HG3	45:DM:96:LYS:NZ	2.36	0.40
46:DL:113:ILE:HA	46:DL:116:VAL:HG12	2.03	0.40
46:DL:344:TRP:CE3	46:DL:345:ILE:HG12	2.56	0.40
46:DN:173:PRO:HG2	46:DN:380:ARG:HD3	2.04	0.40
46:EB:332:ASN:HB3	46:EB:336:LYS:NZ	2.35	0.40
45:EC:174:SER:HB2	45:EC:177:VAL:O	2.20	0.40
46:ED:327:ASP:OD1	46:ED:328:GLU:N	2.54	0.40
45:EE:174:SER:HB2	45:EE:177:VAL:O	2.21	0.40
45:EG:20:CYS:HA	45:EG:232:ALA:HB1	2.03	0.40
45:EG:135:PHE:HB2	45:EG:166:LYS:HG2	2.03	0.40
45:EG:301:MET:HA	45:EG:301:MET:HE3	2.02	0.40
46:EH:54:ALA:HA	46:FH:283:ALA:HB2	2.03	0.40
45:EI:3:GLU:HG2	45:EI:64:ARG:CZ	2.51	0.40
46:EJ:127:CYS:SG	46:EJ:130:LEU:HD22	2.61	0.40
46:EJ:420:SER:O	46:EJ:423:GLN:HG3	2.20	0.40
45:EK:145:THR:HG22	47:EK:501:GTP:PG	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:11:GLN:O	45:EM:15:GLN:HG2	2.20	0.40
45:EM:21:TRP:CE3	45:EM:24:PHE:HD2	2.39	0.40
45:FA:317:MET:HG3	45:FA:377:MET:HB3	2.03	0.40
45:FA:320:ARG:NH2	45:FA:360:PRO:HA	2.35	0.40
46:FF:378:PHE:HA	46:FF:381:VAL:HG12	2.03	0.40
45:FG:174:SER:HB3	45:FG:207:GLU:CD	2.41	0.40
46:FH:392:LYS:HA	46:FH:392:LYS:HD3	1.92	0.40
45:FI:210:TYR:CE1	45:FI:227:LEU:HD11	2.56	0.40
45:FM:69:ASP:O	45:FM:94:SER:HA	2.21	0.40
45:FM:98:ASP:OD1	45:FM:99:ALA:N	2.54	0.40
45:GA:180:ALA:HA	46:GB:350:LYS:HD2	2.03	0.40
45:GA:352:LYS:HZ1	46:GD:178:THR:HA	1.84	0.40
45:GC:329:ASN:HB3	46:GF:175:VAL:HG12	2.01	0.40
46:GF:21:TRP:CZ3	46:GF:61:PRO:HB3	2.56	0.40
46:GH:44:LEU:HD23	46:GH:44:LEU:HA	1.87	0.40
45:GI:271:SER:HB2	45:GI:377:MET:CG	2.51	0.40
46:GJ:316:LEU:HD23	46:GJ:352:SER:HB2	2.02	0.40
47:GK:501:GTP:O1G	46:GL:252:LYS:NZ	2.28	0.40
46:GL:3:GLU:OE2	46:GL:127:CYS:HB2	2.22	0.40
45:GM:124:LYS:HE2	45:GM:124:LYS:HB2	1.88	0.40
45:HA:124:LYS:HA	45:HA:127:ASP:OD1	2.21	0.40
45:HA:426:ALA:O	45:HA:429:GLU:HG3	2.21	0.40
46:HB:16:ILE:HD12	46:HB:229:VAL:HG11	2.04	0.40
45:HE:195:LEU:HD21	45:HE:264:ARG:HH21	1.86	0.40
46:HF:377:MET:O	46:HF:380:ARG:HG2	2.21	0.40
46:HL:262:ARG:HB2	46:HL:262:ARG:CZ	2.50	0.40
46:HN:55:THR:HG23	46:IN:283:ALA:HA	2.03	0.40
45:IC:107:HIS:HD2	45:IC:151:SER:HB2	1.86	0.40
45:IC:155:GLU:OE2	45:IC:156:ARG:NH2	2.52	0.40
46:ID:7:ILE:HD13	46:ID:64:ILE:HB	2.03	0.40
46:IF:103:LYS:HG3	46:IF:401:GLU:OE2	2.22	0.40
46:IH:8:GLN:OE1	46:IH:17:GLY:HA3	2.21	0.40
46:IH:409:THR:O	46:IH:412:GLU:HG3	2.21	0.40
45:IK:22:GLU:O	45:IK:26:LEU:HD23	2.21	0.40
45:IK:202:VAL:HG12	45:IK:204:LEU:HG	2.02	0.40
46:IL:70:PRO:O	46:IL:74:ASP:HB2	2.21	0.40
45:IM:269:LEU:HD23	45:IM:379:SER:O	2.21	0.40
46:IN:286:VAL:HG21	46:IN:321:MET:CE	2.50	0.40
45:JA:215:ARG:NH2	45:JA:299:ALA:O	2.54	0.40
46:JB:260:PHE:HB2	46:JB:263:LEU:HG	2.02	0.40
46:JJ:11:GLN:HG3	46:JJ:12:CYS:N	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:JK:20:CYS:HA	45:JK:232:ALA:HB1	2.03	0.40
46:JL:418:LEU:O	46:JL:422:TYR:HB2	2.21	0.40
46:JN:263:LEU:HD22	46:JN:422:TYR:CD1	2.56	0.40
45:KC:25:CYS:HB2	45:KC:30:ILE:HB	2.03	0.40
46:KD:3:GLU:OE2	46:KD:127:CYS:HB2	2.20	0.40
46:KD:27:GLU:OE1	46:KD:28:HIS:CE1	2.74	0.40
45:KE:392:ASP:OD2	45:KE:422:ARG:NE	2.53	0.40
46:KF:21:TRP:CZ3	46:KF:61:PRO:HB3	2.56	0.40
46:KF:66:MET:HE2	46:KF:66:MET:HB2	1.94	0.40
45:KI:175:PRO:HG2	45:KI:176:GLN:OE1	2.21	0.40
46:KJ:115:SER:O	46:KJ:119:VAL:HG23	2.21	0.40
45:KK:115:VAL:HG22	45:KK:119:LEU:HD23	2.02	0.40
46:KL:221:THR:HG23	46:KL:223:GLY:N	2.35	0.40
45:KM:270:SER:O	45:KM:302:MET:HE2	2.21	0.40
46:KN:62:ARG:HD3	46:KN:123:GLU:OE2	2.21	0.40
46:KN:406:MET:N	46:KN:406:MET:SD	2.94	0.40
45:LA:254:GLU:O	45:LA:255:PHE:HD1	2.04	0.40
45:LA:338:LYS:HA	45:LA:338:LYS:HD2	1.86	0.40
45:LC:210:TYR:HB3	46:LD:324:LYS:NZ	2.36	0.40
46:LF:233:MET:O	46:LF:236:VAL:HG12	2.21	0.40
45:LG:88:HIS:ND1	45:LG:90:GLU:HG2	2.37	0.40
45:LI:384:ILE:O	45:LI:387:VAL:HG22	2.22	0.40
45:LK:55:GLU:OE2	45:LK:56:THR:N	2.53	0.40
45:LM:66:VAL:HG11	45:LM:122:ILE:HD11	2.03	0.40
46:MD:101:TRP:HB3	46:MD:398:TYR:HE1	1.85	0.40
45:ME:132:LEU:HD22	45:ME:164:LYS:HZ3	1.86	0.40
46:MF:66:MET:HE3	46:MF:151:LEU:HD22	2.03	0.40
45:MG:109:THR:HG22	45:MG:110:ILE:HG23	2.02	0.40
45:MK:179:THR:O	46:ML:350:LYS:HA	2.21	0.40
46:ML:32:PRO:HA	46:ML:84:LEU:HD11	2.03	0.40
46:MN:117:LEU:HA	46:MN:120:VAL:HG12	2.02	0.40
46:MN:238:CYS:HB2	46:MN:318:ARG:NH1	2.36	0.40
46:MN:409:THR:O	46:MN:412:GLU:HG2	2.20	0.40
46:NB:131:GLN:O	46:NB:162:ARG:NE	2.54	0.40
45:NC:210:TYR:HE1	45:NC:227:LEU:HD11	1.86	0.40
45:NC:279:GLU:HG3	45:NC:281:ALA:H	1.86	0.40
46:ND:29:GLY:HA2	46:ND:37:HIS:CE1	2.56	0.40
46:ND:330:MET:SD	46:ND:349:ILE:HG21	2.62	0.40
45:NE:249:ASN:OD1	46:NH:11:GLN:NE2	2.48	0.40
45:NG:165:SER:HA	45:NG:199:ASP:OD2	2.20	0.40
46:NH:256:ASN:ND2	46:NH:350:LYS:HB2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:NI:103:PHE:H	45:NI:408:TYR:HE2	1.68	0.40
46:NJ:270:PHE:CE1	46:NJ:364:ALA:HB1	2.56	0.40
45:NK:88:HIS:ND1	45:NK:90:GLU:HG3	2.36	0.40
46:NL:66:MET:HA	46:NL:91:VAL:O	2.21	0.40
46:NL:282:ARG:HB3	46:NL:283:ALA:H	1.63	0.40
45:NM:205:ASP:OD2	45:NM:206:ASN:N	2.53	0.40
46:NN:132:GLY:HA3	46:NN:163:ILE:HG13	2.02	0.40
46:NN:286:VAL:HG23	46:NN:287:PRO:HD3	2.02	0.40
45:OA:406:HIS:CD2	45:OA:407:TRP:HD1	2.39	0.40
46:OB:266:PHE:CD1	46:OB:370:ASN:HB2	2.55	0.40
46:OB:404:ASP:N	46:OB:404:ASP:OD1	2.54	0.40
46:OB:417:ASP:O	46:OB:421:GLU:HG3	2.20	0.40
45:OC:7:ILE:HG22	45:OC:66:VAL:HB	2.03	0.40
45:OC:53:PHE:O	45:OC:64:ARG:NH2	2.54	0.40
45:OC:177:VAL:HG11	46:OD:324:LYS:HZ2	1.82	0.40
46:OD:318:ARG:NH2	46:OD:358:PRO:HG3	2.37	0.40
46:OF:199:CYS:HB3	46:OF:265:PHE:HD1	1.86	0.40
46:OF:285:THR:HG23	46:OF:287:PRO:HD2	2.03	0.40
45:OG:32:PRO:O	45:OG:86:LEU:HB2	2.21	0.40
45:OG:384:ILE:O	45:OG:387:VAL:HG12	2.21	0.40
45:OG:416:GLY:O	45:OG:419:SER:N	2.53	0.40
46:OH:310:TYR:O	46:OH:342:VAL:HG12	2.21	0.40
46:OJ:64:ILE:HA	46:OJ:89:ASN:HB3	2.03	0.40
46:OL:184:ASN:OD1	46:OL:185:ALA:N	2.54	0.40
45:OM:169:PHE:CE1	45:OM:202:VAL:HG21	2.55	0.40
45:OM:288:VAL:O	45:OM:292:THR:HG23	2.21	0.40
45:PG:181:VAL:HG23	46:PH:347:ASN:O	2.21	0.40
46:PH:99:ASN:OD1	46:PH:142:GLY:N	2.54	0.40
45:PI:175:PRO:HA	45:PI:390:ARG:HH11	1.85	0.40
45:PI:222:PRO:HG2	46:PJ:324:LYS:HE2	2.02	0.40
46:PJ:229:VAL:O	46:PJ:233:MET:HG3	2.21	0.40
45:PK:434:GLU:O	45:PK:437:ILE:HG22	2.21	0.40
45:PM:104:ALA:HB1	45:PM:411:GLU:OE1	2.21	0.40
46:PN:274:THR:CG2	46:PN:282:ARG:HH21	2.33	0.40
45:QA:288:VAL:HA	45:QA:291:ILE:HG12	2.02	0.40
45:QA:378:ILE:HD12	45:QA:378:ILE:HA	1.97	0.40
45:QC:32:PRO:HB3	45:QC:83:TYR:CE1	2.56	0.40
45:QC:131:GLY:O	45:QC:133:GLN:NE2	2.55	0.40
45:QC:256:GLN:CD	46:QD:397:TRP:HE1	2.23	0.40
46:QD:350:LYS:HD2	46:QD:351:SER:N	2.36	0.40
45:QE:98:ASP:OD1	45:QE:99:ALA:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:QH:50:TYR:CE2	46:QH:241:ARG:HD3	2.57	0.40
46:QH:116:VAL:O	46:QH:120:VAL:HG23	2.21	0.40
45:QI:141:VAL:HG11	45:QI:172:TYR:HA	2.02	0.40
45:QM:188:ILE:HG13	45:QM:189:LEU:HD12	2.03	0.40
46:QN:380:ARG:HE	46:QN:380:ARG:HB3	1.76	0.40
46:RD:347:ASN:ND2	45:RE:176:GLN:O	2.40	0.40
45:RE:133:GLN:HG3	45:RE:242:LEU:HD21	2.02	0.40
45:RE:280:LYS:O	45:RE:280:LYS:HG3	2.21	0.40
45:RE:333:ALA:O	45:RE:337:THR:HG23	2.21	0.40
46:RF:178:THR:HB	46:RF:181:GLU:HG3	2.04	0.40
46:RF:252:LYS:HA	46:RF:255:VAL:HG12	2.02	0.40
45:RG:235:ILE:O	45:RG:239:THR:HG22	2.21	0.40
45:RG:287:SER:O	45:RG:291:ILE:HG23	2.20	0.40
45:RG:352:LYS:NZ	46:RH:179:VAL:HG22	2.36	0.40
46:RH:19:LYS:O	46:RH:23:VAL:HG23	2.21	0.40
45:RK:433:GLU:O	45:RK:437:ILE:HG12	2.20	0.40
46:RL:316:LEU:HB3	46:RL:366:THR:OG1	2.20	0.40
45:RM:107:HIS:CE1	45:RM:108:TYR:CE1	3.09	0.40
45:RM:174:SER:OG	45:RM:207:GLU:OE1	2.28	0.40
46:SB:2:ARG:NH2	45:SC:71:GLU:OE2	2.49	0.40
46:SB:282:ARG:HE	46:SB:283:ALA:N	2.19	0.40
45:SC:188:ILE:HD13	45:SC:422:ARG:NH2	2.36	0.40
46:SD:238:CYS:HB2	46:SD:318:ARG:HH11	1.86	0.40
46:SF:222:TYR:O	46:SF:226:ASN:ND2	2.32	0.40
45:SG:196:GLU:N	45:SG:196:GLU:OE2	2.54	0.40
45:SI:265:ILE:HD12	45:SI:432:TYR:CE2	2.56	0.40
45:SK:135:PHE:HB2	45:SK:166:LYS:HG2	2.03	0.40
45:SK:348:PRO:HB2	46:SL:384:GLN:HE22	1.86	0.40
45:SK:411:GLU:N	45:SK:411:GLU:OE1	2.54	0.40
45:SM:118:CYS:O	45:SM:122:ILE:HG12	2.22	0.40
45:SM:212:ILE:HD11	45:SM:300:ASN:HA	2.04	0.40
46:SN:238:CYS:SG	46:SN:239:CYS:N	2.95	0.40
45:TA:68:LEU:HD21	45:TA:118:CYS:SG	2.61	0.40
46:TD:68:LEU:HD23	46:TD:147:MET:HE1	2.02	0.40
46:TD:399:THR:HA	46:TD:403:MET:O	2.21	0.40
46:TF:107:THR:HG21	46:TF:401:GLU:OE2	2.21	0.40
46:TJ:267:MET:HB2	46:TJ:299:MET:CE	2.51	0.40
46:TJ:350:LYS:HG3	45:TK:179:THR:O	2.20	0.40
45:TM:254:GLU:OE2	45:TM:257:THR:OG1	2.32	0.40
45:TM:430:LYS:HE2	45:TM:430:LYS:HA	2.03	0.40
45:UA:287:SER:O	45:UA:291:ILE:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UB:130:LEU:HG	46:UB:132:GLY:N	2.36	0.40
46:UB:276:ARG:HA	46:UB:276:ARG:HD3	1.87	0.40
46:UB:337:ASN:OD1	46:UB:340:TYR:HB2	2.21	0.40
46:UB:345:ILE:HG22	46:UB:348:ASN:HB3	2.03	0.40
46:UD:105:HIS:CD2	46:UD:150:LEU:HG	2.56	0.40
45:UE:2:ARG:O	45:UE:51:THR:HA	2.21	0.40
45:UE:21:TRP:CZ2	45:UE:65:ALA:HB2	2.56	0.40
46:UF:48:ASN:HA	46:UF:51:TYR:O	2.20	0.40
46:UF:251:ARG:O	46:UF:255:VAL:HG23	2.21	0.40
46:UF:282:ARG:NE	46:UF:288:GLU:OE1	2.38	0.40
46:UH:237:THR:OG1	46:UH:241:ARG:NH1	2.45	0.40
46:UH:252:LYS:HA	45:UI:100:ALA:HB1	2.03	0.40
46:UJ:323:THR:HG21	45:UK:224:TYR:CE1	2.56	0.40
45:UK:272:TYR:HD2	45:UK:275:ILE:HD11	1.86	0.40
45:UK:434:GLU:O	45:UK:437:ILE:HG12	2.21	0.40
45:VA:179:THR:HG22	46:VB:350:LYS:NZ	2.37	0.40
45:VA:238:LEU:HD12	45:VA:239:THR:HG23	2.02	0.40
46:VB:309:ARG:N	46:VB:372:THR:OG1	2.47	0.40
45:VC:209:ILE:HG21	45:VC:227:LEU:HD13	2.02	0.40
46:VD:304:ASP:OD1	46:VD:306:ARG:HG2	2.21	0.40
46:VD:391:ARG:HD2	46:VD:391:ARG:HA	1.75	0.40
46:VF:68:LEU:HD23	46:VF:143:THR:OG1	2.21	0.40
46:VF:376:GLU:O	46:VF:380:ARG:HG2	2.21	0.40
45:VG:104:ALA:HB2	45:VG:413:MET:HG3	2.04	0.40
45:VG:121:ARG:HD2	45:VG:124:LYS:NZ	2.36	0.40
46:VH:68:LEU:HD13	46:VH:68:LEU:HA	1.88	0.40
46:VH:211:CYS:O	46:VH:215:LEU:HB2	2.21	0.40
45:VI:407:TRP:CE3	46:VJ:255:VAL:HG22	2.56	0.40
46:VJ:141:GLY:HA3	49:VJ:501:GDP:O3A	2.20	0.40
45:VK:200:VAL:HG13	45:VK:268:MET:SD	2.61	0.40
45:WA:222:PRO:HD2	46:WB:324:LYS:NZ	2.36	0.40
45:WC:88:HIS:CE1	45:WC:90:GLU:HG3	2.55	0.40
45:WC:226:ASN:ND2	45:WC:367:ASP:OD2	2.54	0.40
45:WC:280:LYS:HA	45:WC:283:HIS:HD2	1.86	0.40
45:WC:353:VAL:HG12	46:WF:177:ASP:HB2	2.03	0.40
45:WC:422:ARG:HA	45:WC:422:ARG:HD2	1.96	0.40
46:WD:206:ALA:O	46:WD:210:ILE:HG12	2.21	0.40
46:WF:88:ASP:OD1	46:WF:89:ASN:N	2.54	0.40
46:WF:390:ARG:HA	46:WF:390:ARG:CZ	2.51	0.40
46:WH:257:LEU:HB3	46:WH:266:PHE:CZ	2.56	0.40
46:WJ:22:GLU:HG2	46:WJ:81:PHE:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:WK:36:MET:HA	45:WK:37:PRO:HD3	1.85	0.40
45:WK:208:ALA:O	45:WK:212:ILE:HG12	2.20	0.40
46:WL:19:LYS:NZ	46:WL:227:HIS:HA	2.36	0.40
46:WN:8:GLN:O	46:WN:66:MET:HG3	2.21	0.40
46:WN:356:ILE:HD12	46:WN:357:PRO:HD2	2.02	0.40
45:DC:172:TYR:HD2	45:DC:203:MET:SD	2.44	0.40
11:OS:257:PRO:HG2	46:AB:417:ASP:OD2	2.22	0.40
1:1A:34:LEU:HD13	46:MF:40:SER:OG	2.21	0.40
4:1D:6:ARG:HA	45:CG:84:ARG:HH21	1.86	0.40
4:1D:171:LEU:HD12	45:EG:89:PRO:HA	2.03	0.40
8:1H:115:ARG:HE	46:HL:279:GLN:HG2	1.86	0.40
8:1H:193:TYR:CE2	45:HG:370:LYS:HG2	2.56	0.40
18:1I:141:PHE:HD2	46:KF:40:SER:HB3	1.85	0.40
21:2L:772:ASN:HD21	45:BK:279:GLU:HB3	1.84	0.40
23:2O:156:ARG:HH22	45:VK:369:ALA:N	2.18	0.40
23:2O:264:ILE:HD11	45:VG:282:TYR:CD2	2.56	0.40
34:4R:311:LYS:HE2	34:4R:311:LYS:HB2	1.82	0.40
34:4R:394:GLU:H	34:4R:394:GLU:CD	2.24	0.40
15:4X:53:ILE:O	15:4X:57:LYS:HG2	2.21	0.40
37:5F:107:VAL:HG23	37:5F:108:LYS:N	2.37	0.40
37:5F:135:LYS:O	37:5F:138:LEU:HG	2.21	0.40
10:5Q:37:ILE:HG22	10:5Q:38:THR:O	2.21	0.40
34:5R:335:VAL:HG23	34:5R:368:GLN:HE21	1.86	0.40
34:5R:351:ASN:OD1	34:5R:352:CYS:N	2.53	0.40
35:5S:130:ARG:HG2	35:5S:130:ARG:O	2.20	0.40
35:5S:217:LEU:O	35:5S:221:THR:HG23	2.21	0.40
41:6H:219:THR:HG22	46:FD:320:ARG:HH12	1.85	0.40
10:6Q:20:LYS:HZ1	10:6Q:22:LEU:H	1.69	0.40
34:7R:249:LEU:HA	45:CA:370:LYS:HE3	2.02	0.40
45:AA:317:MET:HB3	45:AA:377:MET:HG2	2.02	0.40
46:AB:69:GLU:HA	46:AB:70:PRO:HD3	1.88	0.40
46:AF:139:LEU:HD13	46:AF:168:SER:HB3	2.03	0.40
45:AG:175:PRO:HG3	45:AG:390:ARG:NH2	2.36	0.40
46:AH:117:LEU:HA	46:AH:120:VAL:HG12	2.03	0.40
46:AH:406:MET:HA	46:AH:406:MET:HE2	2.02	0.40
45:AI:36:MET:HG3	45:AI:61:HIS:CE1	2.57	0.40
45:AI:284:GLU:OE1	45:AI:284:GLU:N	2.54	0.40
46:AL:22:GLU:OE2	46:AL:80:PRO:HB2	2.21	0.40
46:AL:179:VAL:O	46:AL:388:MET:HE1	2.22	0.40
46:AN:348:ASN:O	46:AN:349:ILE:HD13	2.21	0.40
45:BA:175:PRO:CA	45:BA:390:ARG:HE	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BA:287:SER:O	45:BA:290:GLU:HG2	2.21	0.40
45:BA:352:LYS:HD2	46:BD:178:THR:HA	2.03	0.40
46:BB:97:ALA:HA	46:BB:103:LYS:HE3	2.03	0.40
45:BC:251:ASP:H	45:BC:254:GLU:CG	2.34	0.40
46:BD:149:THR:OG1	46:BD:191:GLN:HB2	2.22	0.40
46:BD:203:ASP:O	46:BD:207:LEU:HD23	2.21	0.40
45:BE:175:PRO:HA	45:BE:390:ARG:NE	2.36	0.40
46:BF:1:MET:O	46:BF:2:ARG:HG2	2.21	0.40
46:BF:72:THR:O	46:BF:76:VAL:HG13	2.21	0.40
46:BF:304:ASP:HB3	46:BF:307:HIS:ND1	2.35	0.40
46:BF:328:GLU:OE2	46:BF:329:GLN:HG2	2.20	0.40
45:BG:171:ILE:HG23	45:BG:204:LEU:O	2.21	0.40
46:BH:58:ARG:HD3	46:CF:280:GLN:OE1	2.21	0.40
46:BH:190:HIS:CD2	46:BH:411:ALA:HA	2.57	0.40
46:BH:380:ARG:HG3	46:BH:381:VAL:N	2.36	0.40
45:BI:101:ASN:HD22	45:BI:143:GLY:HA2	1.85	0.40
46:BJ:40:SER:OG	46:BJ:43:GLN:HG3	2.21	0.40
45:BK:226:ASN:HA	45:BK:229:ARG:HD2	2.02	0.40
45:BK:332:ILE:HD12	45:BK:351:PHE:CD1	2.56	0.40
45:BK:414:GLU:HG3	45:BK:417:GLU:HG2	2.03	0.40
45:BM:88:HIS:CE1	45:CM:280:LYS:NZ	2.88	0.40
45:CA:97:GLU:HG2	45:CA:105:ARG:HH22	1.87	0.40
46:CB:133:PHE:HD1	46:CB:155:VAL:HG11	1.87	0.40
46:CB:325:GLU:OE2	45:CC:221:ARG:NH2	2.54	0.40
45:CC:217:LEU:HB3	45:CC:219:ILE:HG13	2.03	0.40
45:CC:243:ARG:HG3	45:CC:244:PHE:CD2	2.56	0.40
45:CC:284:GLU:OE2	45:CC:286:LEU:HD23	2.21	0.40
45:CC:352:LYS:HD3	45:CC:353:VAL:H	1.86	0.40
46:CD:405:GLU:H	46:CD:405:GLU:CD	2.22	0.40
46:CF:287:PRO:HA	46:CF:329:GLN:HE22	1.86	0.40
46:CF:306:ARG:NH2	46:CF:340:TYR:OH	2.42	0.40
46:CH:139:LEU:HD12	46:CH:170:VAL:HG12	2.02	0.40
46:CH:325:GLU:OE1	46:CH:325:GLU:N	2.40	0.40
45:CI:36:MET:SD	45:CI:37:PRO:HD2	2.61	0.40
45:CI:85:GLN:N	45:CI:85:GLN:OE1	2.55	0.40
46:CJ:266:PHE:HE1	46:CJ:370:ASN:HB2	1.85	0.40
46:DD:99:ASN:HB2	46:DD:142:GLY:H	1.86	0.40
46:DD:178:THR:HG23	45:DC:258:ASN:HD21	1.87	0.40
46:DF:253:LEU:HD12	46:DF:257:LEU:CD1	2.52	0.40
46:DH:48:ASN:O	46:DH:62:ARG:NH1	2.54	0.40
45:DI:167:LEU:HG	45:DI:200:VAL:HB	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:DI:263:PRO:HD3	46:DJ:396:HIS:CE1	2.57	0.40
46:EB:331:LEU:O	46:EB:334:GLN:HG3	2.20	0.40
45:EC:234:VAL:O	45:EC:238:LEU:HD23	2.21	0.40
45:EC:255:PHE:HA	45:EC:259:LEU:HD23	2.02	0.40
45:EE:223:THR:HG23	45:EE:225:THR:H	1.87	0.40
46:EF:207:LEU:HB3	46:EF:225:LEU:HD22	2.02	0.40
45:EG:9:VAL:HG12	45:EG:68:LEU:HB2	2.03	0.40
45:EG:174:SER:HB2	45:EG:177:VAL:O	2.21	0.40
45:EG:278:ALA:HA	45:EG:369:ALA:HB2	2.02	0.40
45:EI:224:TYR:HD1	45:EI:227:LEU:HD12	1.86	0.40
45:EK:359:PRO:HB2	45:EK:370:LYS:NZ	2.36	0.40
45:EM:20:CYS:CB	45:EM:235:ILE:HD11	2.50	0.40
45:EM:256:GLN:HG3	46:EN:397:TRP:NE1	2.32	0.40
46:FB:249:ASP:OD2	46:FB:252:LYS:N	2.47	0.40
46:FB:268:ILE:HA	46:FB:367:PHE:O	2.21	0.40
45:FC:137:VAL:HG23	45:FC:168:GLY:HA2	2.03	0.40
45:FC:212:ILE:HD11	45:FC:300:ASN:HA	2.01	0.40
46:FD:153:SER:O	46:FD:157:GLU:HG2	2.20	0.40
45:FG:256:GLN:HB2	46:FJ:397:TRP:CH2	2.55	0.40
45:FI:370:LYS:HE3	45:FI:370:LYS:HB3	1.89	0.40
45:FK:10:GLY:O	45:FK:14:ILE:HG12	2.21	0.40
45:GA:346:TRP:HA	46:GD:388:MET:SD	2.62	0.40
45:GC:287:SER:HB3	45:GC:290:GLU:OE1	2.20	0.40
46:GD:203:ASP:O	46:GD:207:LEU:HG	2.22	0.40
45:GE:296:PHE:HE2	45:GE:335:ILE:HG21	1.86	0.40
46:GH:12:CYS:O	46:GH:16:ILE:HG12	2.21	0.40
46:GJ:108:GLU:O	46:GJ:111:GLU:HG3	2.21	0.40
45:GK:3:GLU:HG2	45:GK:64:ARG:CZ	2.51	0.40
45:GK:45:GLY:O	45:GK:46:ASP:OD1	2.39	0.40
45:GK:342:GLN:N	45:GK:342:GLN:OE1	2.54	0.40
45:GK:387:VAL:O	45:GK:391:LEU:HG	2.21	0.40
46:GL:314:SER:HA	46:GL:350:LYS:O	2.21	0.40
45:GM:115:VAL:HG22	45:GM:119:LEU:HD23	2.03	0.40
46:GN:135:ILE:HB	46:GN:166:THR:HG22	2.02	0.40
46:GN:180:VAL:HG12	46:GN:180:VAL:O	2.21	0.40
45:HA:329:ASN:OD1	46:HD:175:VAL:HG23	2.22	0.40
46:HB:19:LYS:O	46:HB:23:VAL:HG23	2.21	0.40
46:HB:44:LEU:HA	46:HB:47:ILE:HG23	2.03	0.40
45:HC:222:PRO:O	46:HD:322:SER:HB2	2.22	0.40
46:HD:20:PHE:HZ	46:HD:50:TYR:HE1	1.68	0.40
46:HD:113:ILE:HA	46:HD:116:VAL:HG12	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HF:237:THR:HG23	46:HF:241:ARG:HE	1.85	0.40
46:HF:372:THR:HA	46:HF:422:TYR:HE1	1.86	0.40
45:HG:414:GLU:CD	45:HG:416:GLY:H	2.24	0.40
45:HG:419:SER:O	45:HG:423:GLU:OE1	2.39	0.40
46:HH:232:ALA:HB1	46:HH:268:ILE:HD12	2.03	0.40
45:HK:338:LYS:NZ	45:HK:341:ILE:HD12	2.36	0.40
46:ID:7:ILE:HD12	46:ID:64:ILE:O	2.21	0.40
46:ID:372:THR:O	46:ID:375:GLN:HG2	2.21	0.40
45:IE:5:ILE:HB	45:IE:135:PHE:HD2	1.87	0.40
46:IF:342:VAL:HG13	46:IF:345:ILE:HG22	2.03	0.40
45:IG:8:HIS:HB3	45:IG:14:ILE:HD13	2.03	0.40
45:IG:384:ILE:O	45:IG:387:VAL:HG22	2.21	0.40
46:IJ:201:VAL:O	46:IJ:202:ILE:HD13	2.21	0.40
46:IL:73:MET:HE1	46:IL:92:PHE:HB3	2.04	0.40
45:IM:205:ASP:HB2	45:IM:304:LYS:HZ3	1.86	0.40
46:JD:67:ASP:OD1	46:JD:68:LEU:N	2.51	0.40
46:JF:39:ASP:OD1	46:JF:40:SER:N	2.50	0.40
46:JH:306:ARG:HG2	46:JH:340:TYR:CE1	2.56	0.40
45:JI:123:ARG:HD2	45:JI:161:TYR:OH	2.21	0.40
45:JI:189:LEU:O	45:JI:192:HIS:HB3	2.22	0.40
45:JK:25:CYS:O	45:JK:30:ILE:N	2.49	0.40
46:JL:178:THR:HG22	46:JL:180:VAL:H	1.86	0.40
46:JL:330:MET:O	46:JL:333:VAL:HG12	2.21	0.40
45:JM:121:ARG:HH21	45:JM:124:LYS:CD	2.34	0.40
45:JM:430:LYS:HA	45:JM:433:GLU:HG2	2.03	0.40
45:KA:67:PHE:HB2	45:KA:92:LEU:HG	2.04	0.40
45:KC:75:ILE:HG21	45:KC:94:SER:HB3	2.03	0.40
45:KC:417:GLU:O	45:KC:420:GLU:HG3	2.22	0.40
46:KF:376:GLU:H	46:KF:376:GLU:HG2	1.74	0.40
46:KH:2:ARG:HE	46:KH:240:LEU:HD22	1.86	0.40
46:KH:5:VAL:HG12	46:KH:62:ARG:HD3	2.04	0.40
45:KI:407:TRP:HZ3	46:KJ:255:VAL:HA	1.81	0.40
46:KL:101:TRP:CE3	46:KL:187:LEU:HD23	2.56	0.40
46:KL:409:THR:O	46:KL:412:GLU:HG3	2.20	0.40
45:KM:97:GLU:HA	45:KM:97:GLU:OE2	2.21	0.40
46:KN:324:LYS:O	46:KN:328:GLU:OE1	2.39	0.40
45:LA:227:LEU:O	45:LA:231:ILE:HG12	2.21	0.40
45:LA:330:ALA:O	45:LA:334:THR:HG23	2.21	0.40
46:LD:383:GLU:HA	46:LD:386:THR:HG22	2.03	0.40
46:LF:242:PHE:HB2	46:LF:354:CYS:SG	2.61	0.40
45:LI:229:ARG:NH1	45:LI:366:GLY:HA2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:69:GLU:HA	46:LJ:69:GLU:OE1	2.21	0.40
45:LK:304:LYS:HE2	45:LK:304:LYS:HA	2.03	0.40
45:LM:172:TYR:CD2	45:LM:173:PRO:HD2	2.57	0.40
46:LN:173:PRO:HB3	46:LN:384:GLN:HE22	1.87	0.40
46:MB:88:ASP:OD1	46:MB:89:ASN:N	2.54	0.40
45:MC:392:ASP:OD1	45:MC:422:ARG:NH1	2.54	0.40
46:MD:116:VAL:HA	46:MD:119:VAL:HG12	2.03	0.40
46:MD:394:PHE:HA	46:MD:397:TRP:HZ3	1.86	0.40
46:MH:215:LEU:HD11	46:MH:273:LEU:HD12	2.03	0.40
46:MH:238:CYS:SG	46:MH:239:CYS:N	2.95	0.40
45:MK:223:THR:HG23	45:MK:225:THR:H	1.85	0.40
46:MN:257:LEU:HD12	46:MN:312:THR:HG23	2.03	0.40
45:NA:29:GLY:O	45:NA:40:LYS:NZ	2.52	0.40
45:NA:89:PRO:HD2	45:OA:280:LYS:HZ2	1.85	0.40
45:NA:258:ASN:OD1	45:NA:259:LEU:HG	2.21	0.40
46:NH:163:ILE:HA	46:NH:197:ASP:OD2	2.22	0.40
45:NI:253:THR:HA	45:NI:256:GLN:NE2	2.36	0.40
45:NM:50:ASN:OD1	45:NM:51:THR:N	2.54	0.40
45:NM:367:ASP:OD1	45:NM:368:LEU:N	2.54	0.40
46:NN:103:LYS:HA	46:NN:107:THR:OG1	2.21	0.40
45:OA:112:LYS:HA	45:OA:115:VAL:HG12	2.02	0.40
45:OA:177:VAL:HG13	46:OB:327:ASP:HB3	2.02	0.40
45:OA:209:ILE:HD12	45:OA:209:ILE:HA	1.95	0.40
45:OA:296:PHE:CE2	45:OA:335:ILE:HG21	2.56	0.40
45:OC:211:ASP:HB2	45:OC:304:LYS:HZ1	1.87	0.40
45:OC:271:SER:HG	45:OC:301:MET:HA	1.86	0.40
46:OF:188:SER:O	46:OF:192:LEU:HD23	2.22	0.40
45:OG:141:VAL:HG12	45:OG:171:ILE:O	2.20	0.40
45:OG:191:THR:HG21	45:OG:425:LEU:HD11	2.02	0.40
45:OG:224:TYR:CE2	47:OG:501:GTP:C5	3.09	0.40
46:OH:190:HIS:ND1	46:OH:411:ALA:HA	2.36	0.40
45:OI:71:GLU:HA	45:OI:72:PRO:HD3	1.86	0.40
45:OK:288:VAL:HG21	45:OK:323:VAL:HG13	2.04	0.40
45:OK:406:HIS:CE1	45:OK:407:TRP:CD1	3.09	0.40
46:ON:395:LEU:HD23	46:ON:395:LEU:HA	1.89	0.40
45:PE:118:CYS:SG	45:PE:153:LEU:HD11	2.61	0.40
45:PE:145:THR:HG22	47:PE:501:GTP:PG	2.61	0.40
45:PG:265:ILE:HD11	45:PG:435:VAL:HG21	2.03	0.40
46:PL:174:LYS:HE2	46:PL:174:LYS:HB2	1.90	0.40
45:QA:244:PHE:HB2	45:QA:356:ASN:HD21	1.86	0.40
45:QC:319:TYR:CE1	45:QC:328:VAL:HG22	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:QI:265:ILE:HG12	45:QI:432:TYR:CE2	2.55	0.40
46:QJ:318:ARG:HH11	46:QJ:358:PRO:HG3	1.85	0.40
45:QK:60:LYS:NZ	45:QK:86:LEU:HA	2.36	0.40
46:QL:51:TYR:HB3	46:QL:59:TYR:HB3	2.03	0.40
46:QL:380:ARG:HA	46:QL:383:GLU:OE1	2.21	0.40
45:QM:88:HIS:HB3	45:QM:91:GLN:CG	2.52	0.40
46:QN:54:ALA:HB3	46:QN:58:ARG:HG2	2.04	0.40
45:RA:226:ASN:O	45:RA:230:LEU:HD23	2.21	0.40
45:RA:319:TYR:CD2	45:RA:323:VAL:HG21	2.56	0.40
45:RC:211:ASP:O	45:RC:215:ARG:HG2	2.21	0.40
45:RE:93:ILE:HG22	45:RE:114:ILE:HD11	2.02	0.40
46:RF:145:SER:HB2	46:RF:188:SER:HB3	2.03	0.40
46:RF:375:GLN:HE22	46:RF:423:GLN:HB3	1.86	0.40
45:RG:174:SER:HB2	45:RG:177:VAL:O	2.21	0.40
46:SD:156:ARG:NH1	46:SD:197:ASP:OD2	2.53	0.40
46:SD:345:ILE:HD12	45:SE:398:MET:CE	2.51	0.40
45:SE:331:SER:O	45:SE:335:ILE:HG12	2.22	0.40
45:SG:210:TYR:O	45:SG:214:ARG:HG2	2.20	0.40
45:SG:287:SER:O	45:SG:291:ILE:HG23	2.20	0.40
45:SG:377:MET:O	45:SG:378:ILE:HD13	2.21	0.40
46:SH:25:SER:OG	46:SH:51:TYR:OH	2.35	0.40
46:SH:31:ASP:OD2	46:SH:33:THR:OG1	2.39	0.40
46:SH:248:SER:HA	46:SH:252:LYS:HD3	2.02	0.40
46:SH:327:ASP:OD2	46:SH:327:ASP:N	2.55	0.40
45:SI:2:ARG:NE	45:SI:242:LEU:O	2.51	0.40
46:SJ:1:MET:SD	46:SJ:2:ARG:HG2	2.61	0.40
46:SJ:132:GLY:HA3	46:SJ:163:ILE:HG13	2.03	0.40
45:SK:220:GLU:OE1	45:SK:220:GLU:N	2.54	0.40
45:SK:317:MET:SD	45:SK:317:MET:N	2.94	0.40
46:SL:178:THR:HG22	46:SL:180:VAL:H	1.86	0.40
46:SL:252:LYS:HA	45:SM:100:ALA:HB1	2.04	0.40
46:SN:3:GLU:HG3	46:SN:62:ARG:HH12	1.86	0.40
45:TA:188:ILE:HD11	45:TA:391:LEU:HB3	2.02	0.40
46:TB:299:MET:HG3	46:TB:301:CYS:H	1.87	0.40
45:TE:3:GLU:OE2	45:TE:130:THR:N	2.54	0.40
45:TE:331:SER:O	45:TE:335:ILE:HG12	2.21	0.40
46:TF:138:SER:HA	46:TF:169:VAL:HB	2.03	0.40
46:TF:268:ILE:HG13	46:TF:300:MET:CG	2.46	0.40
45:TG:326:LYS:HG3	45:TG:327:ASP:N	2.37	0.40
45:TG:377:MET:HE2	45:TG:379:SER:HB3	2.03	0.40
46:TH:45:GLU:HG2	46:TH:46:ARG:HG2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:TI:10:GLY:O	45:TI:14:ILE:HG12	2.20	0.40
46:TJ:233:MET:O	46:TJ:236:VAL:HG12	2.21	0.40
46:TL:11:GLN:O	46:TL:15:GLN:HG2	2.21	0.40
46:TL:97:ALA:HA	46:TL:103:LYS:HZ2	1.85	0.40
45:UA:194:LEU:HB2	45:UA:198:THR:OG1	2.21	0.40
46:UB:114:ASP:O	46:UB:117:LEU:HG	2.22	0.40
45:UC:174:SER:HB3	45:UC:207:GLU:HG2	2.03	0.40
46:UF:22:GLU:HG2	46:UF:81:PHE:CD1	2.56	0.40
45:UG:363:VAL:HG23	45:UG:366:GLY:HA3	2.03	0.40
45:UG:414:GLU:CD	45:UG:416:GLY:H	2.24	0.40
46:UH:114:ASP:O	46:UH:117:LEU:HG	2.22	0.40
46:UJ:20:PHE:O	46:UJ:24:ILE:HG12	2.20	0.40
46:UJ:68:LEU:HD23	46:UJ:147:MET:HE3	2.03	0.40
46:UJ:322:SER:HB2	45:UK:222:PRO:O	2.21	0.40
45:UK:2:ARG:HH22	46:UL:70:PRO:CD	2.31	0.40
46:UL:242:PHE:HA	46:UL:243:PRO:HD3	1.95	0.40
46:UN:24:ILE:HG21	46:UN:50:TYR:HD2	1.85	0.40
46:VD:318:ARG:O	46:VD:363:MET:HA	2.21	0.40
45:VE:195:LEU:HD12	45:VE:266:HIS:HE2	1.87	0.40
45:VE:330:ALA:O	45:VE:334:THR:HG23	2.21	0.40
46:VF:119:VAL:O	46:VF:122:LYS:HG2	2.20	0.40
46:VF:181:GLU:HB2	46:VF:182:PRO:HD3	2.04	0.40
45:VG:88:HIS:CE1	45:VG:90:GLU:HG3	2.56	0.40
46:VH:200:MET:HG2	46:VH:268:ILE:CG2	2.52	0.40
46:VH:318:ARG:HH11	46:VH:358:PRO:HG3	1.86	0.40
45:VK:31:GLN:HB2	45:VK:33:ASP:OD1	2.21	0.40
45:VK:46:ASP:OD1	45:VK:47:ASP:N	2.53	0.40
45:VK:224:TYR:HE2	46:VL:246:LEU:HD11	1.86	0.40
45:VK:239:THR:HG23	45:VK:243:ARG:HE	1.87	0.40
45:VK:434:GLU:O	45:VK:437:ILE:HG12	2.21	0.40
46:VN:389:PHE:CZ	46:VN:405:GLU:HG2	2.56	0.40
46:WB:48:ASN:N	46:WB:48:ASN:OD1	2.54	0.40
46:WB:101:TRP:CE3	46:WB:187:LEU:HD13	2.56	0.40
45:WC:153:LEU:HD13	45:WC:153:LEU:HA	1.89	0.40
45:WC:207:GLU:O	45:WC:210:TYR:HB2	2.21	0.40
45:WC:297:GLU:OE2	45:WC:300:ASN:N	2.54	0.40
46:WJ:24:ILE:HG21	46:WJ:50:TYR:HD2	1.86	0.40
46:WJ:284:LEU:HD23	46:WJ:284:LEU:H	1.87	0.40
46:WL:44:LEU:HD22	46:WL:47:ILE:HD13	2.04	0.40
46:WL:210:ILE:HD11	46:WL:299:MET:O	2.21	0.40
46:WN:130:LEU:HD21	46:WN:133:PHE:CZ	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0A:34:LEU:HD13	46:MB:40:SER:HB3	2.02	0.40
6:0F:75:ARG:HG2	46:ED:359:LYS:NZ	2.36	0.40
3:1C:122:ARG:HD2	45:DM:229:ARG:HH21	1.84	0.40
8:1H:139:ARG:CZ	45:HI:370:LYS:O	2.69	0.40
19:1J:79:LYS:HA	45:HC:57:GLY:HA3	2.03	0.40
25:1R:87:LEU:HA	45:MC:85:GLN:HE22	1.86	0.40
4:2D:75:ASP:HB3	46:EJ:362:LYS:HE3	2.03	0.40
4:2D:84:SER:HA	46:EJ:320:ARG:NH2	2.33	0.40
24:2P:439:HIS:CD2	45:TK:282:TYR:CE2	3.10	0.40
34:4R:33:LEU:H	45:LC:1:MET:CE	2.30	0.40
36:5C:59:TYR:OH	46:KJ:405:GLU:OE2	2.22	0.40
36:5D:94:MET:H	45:KM:430:LYS:HZ1	1.67	0.40
37:5F:165:PRO:HD2	37:5F:166:ARG:NH1	2.36	0.40
37:5F:197:LEU:HB2	45:LG:393:HIS:ND1	2.35	0.40
35:5S:187:LEU:HB2	35:5S:240:MET:HG2	2.02	0.40
35:5S:189:VAL:HG13	35:5S:190:MET:HG3	2.03	0.40
41:6H:346:LYS:HA	41:6H:346:LYS:HD3	1.84	0.40
34:7R:12:LEU:H	34:7R:15:HIS:HB2	1.87	0.40
34:7R:169:ILE:HD12	34:7R:169:ILE:HA	1.89	0.40
34:7R:457:GLU:HB2	34:7R:470:PHE:HB2	2.02	0.40
45:AA:297:GLU:OE1	45:AA:298:PRO:HD2	2.21	0.40
46:AB:315:ALA:HB1	46:AB:317:PHE:CE1	2.56	0.40
45:AC:317:MET:SD	45:AC:332:ILE:HD11	2.61	0.40
46:AD:267:MET:HB3	46:AD:301:CYS:SG	2.62	0.40
46:AF:256:ASN:HD22	46:AF:350:LYS:CD	2.34	0.40
45:AG:222:PRO:HD2	46:AH:324:LYS:HB3	2.02	0.40
45:AG:389:SER:O	45:AG:393:HIS:ND1	2.55	0.40
45:AK:172:TYR:OH	45:AK:191:THR:HG22	2.20	0.40
45:AK:316:SER:HA	45:AK:352:LYS:O	2.21	0.40
46:AL:248:SER:HA	46:AL:252:LYS:HD2	2.03	0.40
46:AN:3:GLU:CD	46:AN:3:GLU:H	2.24	0.40
45:BA:256:GLN:HB3	46:BD:397:TRP:CH2	2.56	0.40
45:BA:319:TYR:CE1	45:BA:328:VAL:HG22	2.56	0.40
46:BD:103:LYS:HE2	46:BD:103:LYS:HB2	1.71	0.40
45:BE:69:ASP:OD1	45:BE:70:LEU:N	2.54	0.40
46:BF:86:ARG:NE	46:BF:87:PRO:HD2	2.36	0.40
45:BG:352:LYS:HD2	45:BG:353:VAL:N	2.37	0.40
46:BH:44:LEU:HD23	46:BH:44:LEU:HA	1.93	0.40
46:BH:293:MET:HE1	46:BH:365:VAL:HG11	2.02	0.40
45:BI:384:ILE:O	45:BI:387:VAL:HG22	2.21	0.40
45:BK:88:HIS:H	45:BK:91:GLN:NE2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:BM:115:VAL:HG22	45:BM:119:LEU:HD23	2.04	0.40
45:BM:434:GLU:O	45:BM:437:ILE:HG12	2.22	0.40
46:BN:268:ILE:HG22	46:BN:368:VAL:HG23	2.03	0.40
46:CB:347:ASN:C	46:CB:347:ASN:HD22	2.24	0.40
46:CD:395:LEU:HA	46:CD:398:TYR:HD1	1.86	0.40
46:CF:101:TRP:H	46:CF:398:TYR:HE1	1.68	0.40
45:CG:261:PRO:HA	46:CH:394:PHE:CD1	2.56	0.40
45:CG:433:GLU:OE1	45:CG:433:GLU:HA	2.22	0.40
45:CI:175:PRO:HG2	45:CI:304:LYS:HG2	2.02	0.40
46:CJ:347:ASN:C	46:CJ:347:ASN:HD22	2.24	0.40
45:CK:69:ASP:OD2	45:CK:75:ILE:HG12	2.21	0.40
45:CM:186:ASN:OD1	45:CM:187:SER:N	2.54	0.40
46:CN:86:ARG:NE	46:CN:87:PRO:HD2	2.22	0.40
46:CN:288:GLU:O	46:CN:291:GLN:HG3	2.21	0.40
46:DD:156:ARG:NH2	46:DD:195:ASN:O	2.55	0.40
46:DD:251:ARG:HH21	45:DE:105:ARG:HD2	1.85	0.40
45:DE:322:ASP:OD1	45:DE:373:ARG:NH1	2.50	0.40
45:DG:411:GLU:N	45:DG:411:GLU:OE1	2.54	0.40
46:DH:217:LEU:O	46:DH:220:PRO:HD3	2.21	0.40
46:DH:313:ALA:HB1	46:DH:367:PHE:CE1	2.56	0.40
45:DI:75:ILE:HD12	45:DI:75:ILE:H	1.86	0.40
46:DJ:113:ILE:HD11	46:DJ:151:LEU:HB2	2.04	0.40
45:DK:80:THR:HA	45:DK:84:ARG:HE	1.87	0.40
45:DK:333:ALA:O	45:DK:337:THR:HG23	2.21	0.40
46:DL:9:GLY:HA3	46:DL:66:MET:SD	2.61	0.40
46:DL:19:LYS:NZ	46:DL:227:HIS:HA	2.35	0.40
46:DL:221:THR:O	46:DL:225:LEU:HG	2.22	0.40
45:DM:88:HIS:CE1	45:DM:90:GLU:HG3	2.55	0.40
45:EC:82:THR:HG23	45:EC:83:TYR:HD1	1.86	0.40
45:EE:151:SER:O	45:EE:155:GLU:HG2	2.22	0.40
45:EE:347:CYS:HA	46:EF:388:MET:HE1	2.03	0.40
46:EF:173:PRO:HG2	46:EF:380:ARG:NE	2.36	0.40
46:EF:200:MET:HG2	46:EF:266:PHE:HB2	2.02	0.40
45:EG:56:THR:HG23	45:EG:58:ALA:H	1.86	0.40
46:EH:151:LEU:O	46:EH:155:VAL:HG13	2.21	0.40
45:EI:14:ILE:HD12	45:EI:67:PHE:CD1	2.55	0.40
45:EI:333:ALA:O	45:EI:337:THR:HG23	2.21	0.40
46:EJ:155:VAL:HA	46:EJ:158:GLU:HG2	2.03	0.40
46:EJ:242:PHE:HA	46:EJ:243:PRO:HD3	1.96	0.40
46:EJ:255:VAL:HG11	45:EK:100:ALA:O	2.21	0.40
46:EL:178:THR:HG22	46:EL:180:VAL:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EM:141:VAL:HG11	45:EM:172:TYR:HA	2.03	0.40
45:EM:419:SER:O	45:EM:422:ARG:N	2.53	0.40
45:EM:424:ASP:O	45:EM:428:LEU:HD23	2.21	0.40
46:EN:52:ASN:ND2	46:EN:62:ARG:HG2	2.36	0.40
45:FA:175:PRO:HG3	45:FA:390:ARG:CZ	2.51	0.40
46:FB:173:PRO:HG2	46:FB:380:ARG:HD3	2.04	0.40
45:FC:231:ILE:O	45:FC:235:ILE:HG12	2.21	0.40
45:FE:37:PRO:O	45:FE:39:ASP:N	2.54	0.40
45:FG:259:LEU:HB3	45:FG:268:MET:CE	2.51	0.40
46:FH:101:TRP:HD1	46:FH:145:SER:OG	2.04	0.40
45:FI:287:SER:O	45:FI:291:ILE:HG23	2.22	0.40
45:FI:371:VAL:HG12	45:FI:373:ARG:H	1.86	0.40
46:FJ:287:PRO:HA	46:FJ:290:THR:HG22	2.03	0.40
45:FK:221:ARG:HH21	46:FL:325:GLU:HG2	1.86	0.40
46:FL:4:ILE:HD11	46:FL:50:TYR:OH	2.22	0.40
46:FL:36:TYR:O	46:FL:37:HIS:ND1	2.49	0.40
46:FL:372:THR:HA	46:FL:422:TYR:CE1	2.46	0.40
46:FL:404:ASP:OD1	46:FL:406:MET:HB2	2.21	0.40
46:GB:287:PRO:HA	46:GB:290:THR:HG22	2.03	0.40
46:GD:6:HIS:O	46:GD:63:ALA:HA	2.21	0.40
45:GE:17:GLY:HA2	45:GE:20:CYS:SG	2.61	0.40
46:GF:201:VAL:HG22	46:GF:266:PHE:O	2.22	0.40
46:GH:201:VAL:HG22	46:GH:266:PHE:O	2.21	0.40
45:GI:265:ILE:HG23	45:GI:432:TYR:OH	2.21	0.40
45:GK:71:GLU:OE2	45:GK:98:ASP:N	2.55	0.40
46:GL:289:LEU:HD23	46:GL:289:LEU:HA	1.77	0.40
45:HA:55:GLU:HG3	45:HA:57:GLY:H	1.87	0.40
45:HA:288:VAL:HA	45:HA:291:ILE:HG12	2.02	0.40
45:HA:342:GLN:N	45:HA:342:GLN:OE1	2.55	0.40
46:HB:52:ASN:OD1	46:HB:53:GLU:N	2.55	0.40
46:HB:91:VAL:HG21	46:HB:116:VAL:HB	2.03	0.40
46:HB:214:THR:HG23	46:HB:215:LEU:HD22	2.02	0.40
45:HE:178:SER:HB2	45:HE:183:GLU:OE1	2.21	0.40
45:HG:223:THR:HG23	45:HG:225:THR:H	1.87	0.40
46:HH:48:ASN:O	46:HH:62:ARG:NH1	2.53	0.40
46:HJ:21:TRP:CZ2	46:HJ:63:ALA:HB2	2.56	0.40
46:HJ:260:PHE:HB2	46:HJ:263:LEU:HD13	2.02	0.40
45:HM:108:TYR:HA	45:HM:112:LYS:HE2	2.03	0.40
46:HN:20:PHE:O	46:HN:24:ILE:HG12	2.21	0.40
46:HN:329:GLN:O	46:HN:333:VAL:HG23	2.21	0.40
45:IA:174:SER:HB3	45:IA:207:GLU:OE1	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:IA:430:LYS:O	45:IA:433:GLU:HG2	2.21	0.40
46:IB:44:LEU:HD23	46:IB:44:LEU:HA	1.93	0.40
45:IC:210:TYR:HE1	45:IC:227:LEU:HD21	1.87	0.40
46:ID:375:GLN:OE1	46:ID:423:GLN:HB3	2.21	0.40
45:IG:102:ASN:ND2	45:IG:407:TRP:O	2.51	0.40
46:IH:383:GLU:HA	46:IH:383:GLU:OE2	2.21	0.40
46:IN:3:GLU:OE2	46:IN:127:CYS:HB2	2.22	0.40
45:JA:1:MET:O	45:JA:131:GLY:HA3	2.21	0.40
45:JC:19:ALA:HA	45:JC:22:GLU:HG2	2.03	0.40
46:JH:321:MET:SD	46:JH:321:MET:N	2.95	0.40
46:JH:391:ARG:HA	46:JH:391:ARG:HD2	1.86	0.40
45:JI:254:GLU:O	45:JI:255:PHE:HD2	2.04	0.40
45:JK:215:ARG:NH2	45:JK:299:ALA:O	2.53	0.40
45:JM:73:THR:O	45:JM:77:GLU:HB2	2.21	0.40
45:KA:71:GLU:HA	45:KA:72:PRO:HD3	1.89	0.40
46:KB:12:CYS:O	46:KB:16:ILE:HG12	2.21	0.40
46:KB:238:CYS:CB	46:KB:318:ARG:HD3	2.51	0.40
45:KC:55:GLU:OE1	45:KC:61:HIS:NE2	2.54	0.40
45:KC:208:ALA:O	45:KC:212:ILE:HG12	2.21	0.40
45:KG:213:CYS:SG	45:KG:222:PRO:HG3	2.61	0.40
45:KG:243:ARG:HG3	45:KG:244:PHE:CE2	2.57	0.40
46:KH:295:ASP:OD2	46:KH:297:LYS:HG2	2.21	0.40
46:KJ:3:GLU:OE1	46:KJ:128:ASP:N	2.54	0.40
46:KL:113:ILE:HA	46:KL:116:VAL:HG12	2.04	0.40
45:KM:174:SER:HB3	45:KM:177:VAL:O	2.21	0.40
45:KM:211:ASP:O	45:KM:214:ARG:HG3	2.22	0.40
45:KM:265:ILE:HG22	45:KM:432:TYR:CE1	2.55	0.40
45:LA:174:SER:HB2	45:LA:177:VAL:O	2.21	0.40
45:LA:178:SER:HB2	46:LB:347:ASN:ND2	2.36	0.40
45:LA:395:PHE:CD2	45:LA:422:ARG:HD3	2.56	0.40
45:LC:75:ILE:O	45:LC:79:ARG:HG2	2.22	0.40
45:LC:298:PRO:HA	45:LC:301:MET:HG2	2.03	0.40
45:LE:326:LYS:HD3	46:LH:212:PHE:HZ	1.87	0.40
46:LF:229:VAL:O	46:LF:233:MET:HG3	2.21	0.40
45:LG:2:ARG:HH22	46:LJ:71:GLY:CA	2.33	0.40
45:LG:217:LEU:HD12	45:LG:367:ASP:HB3	2.04	0.40
45:LG:430:LYS:O	45:LG:433:GLU:HG3	2.21	0.40
46:LH:171:PRO:HB2	46:LH:181:GLU:OE1	2.21	0.40
45:LI:21:TRP:CH2	45:LI:63:PRO:HB3	2.57	0.40
45:LI:68:LEU:HD11	45:LI:118:CYS:SG	2.61	0.40
45:LI:108:TYR:CD2	45:LI:413:MET:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:LJ:73:MET:HA	46:LJ:76:VAL:HG12	2.03	0.40
46:LJ:174:LYS:HE2	46:LJ:174:LYS:HB2	1.92	0.40
46:LN:69:GLU:HA	46:LN:70:PRO:HD3	1.86	0.40
46:LN:318:ARG:HH11	46:LN:318:ARG:HG2	1.86	0.40
46:MF:8:GLN:HE21	46:MF:65:LEU:CD1	2.34	0.40
46:MH:3:GLU:HG3	46:MH:49:VAL:HA	2.03	0.40
46:MH:183:TYR:HB3	46:MH:398:TYR:HE2	1.87	0.40
45:MI:102:ASN:HD22	45:MI:105:ARG:HG3	1.87	0.40
45:MI:105:ARG:NH1	46:MJ:251:ARG:HD3	2.36	0.40
45:MI:178:SER:HB2	45:MI:183:GLU:OE1	2.20	0.40
45:MI:289:ALA:O	45:MI:292:THR:HG22	2.21	0.40
46:MJ:11:GLN:NE2	49:MJ:501:GDP:O1A	2.55	0.40
46:MJ:12:CYS:O	46:MJ:16:ILE:HG12	2.21	0.40
46:MJ:238:CYS:SG	46:MJ:318:ARG:HD2	2.62	0.40
45:MK:222:PRO:HD2	46:ML:324:LYS:HD3	2.03	0.40
45:MM:191:THR:HA	45:MM:194:LEU:HG	2.02	0.40
45:MM:434:GLU:O	45:MM:437:ILE:HG22	2.21	0.40
46:MN:221:THR:HG23	46:MN:224:ASP:H	1.86	0.40
45:NA:132:LEU:HD22	45:NA:164:LYS:HE2	2.03	0.40
45:NA:185:TYR:O	45:NA:189:LEU:HG	2.22	0.40
45:NA:316:SER:CB	45:NA:352:LYS:HB3	2.50	0.40
46:NF:3:GLU:HB2	46:NF:62:ARG:NH2	2.36	0.40
45:NG:151:SER:O	45:NG:155:GLU:HG2	2.21	0.40
45:NG:288:VAL:HA	45:NG:291:ILE:HG12	2.03	0.40
46:NH:268:ILE:HG22	46:NH:368:VAL:HG22	2.04	0.40
45:NI:88:HIS:ND1	45:NI:90:GLU:HG2	2.35	0.40
45:NK:8:HIS:CD2	45:NK:138:PHE:HD2	2.39	0.40
45:NK:178:SER:HB3	46:NL:347:ASN:ND2	2.36	0.40
45:NK:180:ALA:HA	46:NL:350:LYS:HZ3	1.84	0.40
45:NK:262:TYR:OH	46:NN:391:ARG:O	2.27	0.40
45:NK:407:TRP:CZ3	46:NL:255:VAL:HA	2.56	0.40
45:NK:417:GLU:OE1	45:NK:417:GLU:N	2.50	0.40
46:NL:314:SER:OG	46:NL:368:VAL:HB	2.20	0.40
45:NM:317:MET:HE3	45:NM:377:MET:SD	2.61	0.40
46:NN:64:ILE:HG13	46:NN:89:ASN:ND2	2.36	0.40
46:NN:310:TYR:CD2	46:NN:371:SER:HB2	2.57	0.40
45:OA:387:VAL:O	45:OA:391:LEU:HD23	2.22	0.40
46:OD:217:LEU:HD23	46:OD:219:THR:H	1.85	0.40
46:OF:265:PHE:HE2	46:OF:418:LEU:HD21	1.86	0.40
46:OF:392:LYS:HA	46:OF:395:LEU:HD12	2.04	0.40
45:OI:10:GLY:O	45:OI:14:ILE:HG12	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:OI:222:PRO:HG2	46:OJ:324:LYS:CD	2.51	0.40
46:OJ:257:LEU:HD21	46:OJ:314:SER:HB3	2.03	0.40
45:OK:3:GLU:HG3	45:OK:129:CYS:SG	2.62	0.40
46:OL:20:PHE:O	46:OL:24:ILE:HG12	2.20	0.40
46:OL:35:THR:HG21	46:OL:37:HIS:HE1	1.86	0.40
46:OL:257:LEU:O	46:OL:259:PRO:HD3	2.21	0.40
45:PA:331:SER:O	45:PA:335:ILE:HG12	2.20	0.40
45:PC:224:TYR:HA	45:PC:227:LEU:HD13	2.03	0.40
45:PG:167:LEU:HG	45:PG:200:VAL:HB	2.04	0.40
46:PH:69:GLU:HA	46:PH:69:GLU:OE2	2.21	0.40
46:PJ:174:LYS:NZ	46:PJ:380:ARG:HH11	2.19	0.40
46:PL:153:SER:HA	46:PL:195:ASN:ND2	2.35	0.40
46:PL:361:LEU:HD23	46:PL:361:LEU:HA	1.93	0.40
46:PL:396:HIS:CE1	46:PL:397:TRP:CD1	3.09	0.40
45:QA:135:PHE:HB2	45:QA:166:LYS:HG2	2.02	0.40
45:QC:105:ARG:O	45:QC:110:ILE:HG12	2.21	0.40
46:QD:345:ILE:HG23	46:QD:345:ILE:O	2.21	0.40
45:QG:75:ILE:H	45:QG:75:ILE:HD12	1.85	0.40
45:QG:342:GLN:N	45:QG:342:GLN:OE1	2.55	0.40
46:QH:153:SER:O	46:QH:157:GLU:OE1	2.39	0.40
45:QI:27:GLU:OE2	45:QI:28:HIS:CE1	2.75	0.40
45:QI:439:THR:HB	46:QJ:390:ARG:NH1	2.37	0.40
45:QK:47:ASP:HB3	45:QK:48:ALA:H	1.71	0.40
45:QK:124:LYS:HE2	45:QK:124:LYS:HB2	1.73	0.40
45:QK:244:PHE:HB2	45:QK:356:ASN:ND2	2.35	0.40
46:QL:6:HIS:O	46:QL:63:ALA:HA	2.21	0.40
46:QL:251:ARG:HH12	45:QM:105:ARG:HD2	1.85	0.40
45:QM:88:HIS:ND1	45:RM:280:LYS:HE3	2.36	0.40
45:QM:326:LYS:HE2	46:QN:220:PRO:HD2	2.02	0.40
46:QN:198:GLU:HG2	46:QN:266:PHE:HE2	1.86	0.40
45:RA:141:VAL:HG22	45:RA:187:SER:HA	2.03	0.40
46:RD:116:VAL:HA	46:RD:119:VAL:HG12	2.02	0.40
46:RF:258:ILE:CG1	45:RG:407:TRP:HZ2	2.34	0.40
46:RF:289:LEU:HA	46:RF:289:LEU:HD23	1.86	0.40
45:RG:91:GLN:HB2	45:RG:121:ARG:NH2	2.36	0.40
46:RL:379:LYS:CE	46:RL:419:VAL:HG11	2.51	0.40
45:RM:209:ILE:HG12	45:RM:302:MET:HG3	2.02	0.40
46:RN:102:ALA:HB1	46:RN:401:GLU:HB2	2.03	0.40
46:SB:169:VAL:HG22	46:SB:202:ILE:HB	2.03	0.40
45:SC:22:GLU:HG2	45:SC:23:LEU:N	2.37	0.40
45:SE:229:ARG:NH1	45:SE:368:LEU:HB2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:SF:32:PRO:HA	46:SF:84:LEU:HD11	2.02	0.40
46:SH:91:VAL:HG21	46:SH:116:VAL:HB	2.04	0.40
46:SH:317:PHE:HB3	46:SH:321:MET:HE1	2.03	0.40
45:SI:239:THR:HG23	45:SI:243:ARG:HE	1.87	0.40
45:SI:329:ASN:HB3	46:SJ:175:VAL:HG12	2.02	0.40
45:SK:212:ILE:HD11	45:SK:300:ASN:HA	2.03	0.40
45:SK:234:VAL:O	45:SK:238:LEU:HD23	2.21	0.40
46:SL:390:ARG:HA	46:SL:390:ARG:NE	2.36	0.40
45:TA:260:VAL:HG13	45:TA:265:ILE:O	2.21	0.40
46:TF:153:SER:HB2	46:TF:191:GLN:NE2	2.36	0.40
45:TG:261:PRO:HB3	45:TG:346:TRP:HH2	1.87	0.40
46:TH:293:MET:CE	46:TH:367:PHE:HB3	2.51	0.40
45:TI:88:HIS:CE1	45:UI:280:LYS:NZ	2.90	0.40
45:TK:262:TYR:HB2	45:TK:265:ILE:HG22	2.04	0.40
45:TK:328:VAL:O	45:TK:332:ILE:HG12	2.22	0.40
45:TM:326:LYS:HD2	46:TN:220:PRO:HD2	2.04	0.40
46:UD:226:ASN:HA	46:UD:229:VAL:HG22	2.04	0.40
45:UE:332:ILE:HD11	45:UE:351:PHE:CG	2.57	0.40
46:UF:141:GLY:HA3	49:UF:501:GDP:O3A	2.21	0.40
46:UH:175:VAL:O	46:UH:175:VAL:HG23	2.22	0.40
45:UI:55:GLU:HG3	45:UI:57:GLY:H	1.86	0.40
45:UI:387:VAL:O	45:UI:391:LEU:HD23	2.22	0.40
46:UL:139:LEU:HG	46:UL:188:SER:OG	2.21	0.40
46:UL:350:LYS:HG3	45:UM:179:THR:O	2.21	0.40
45:UM:19:ALA:HA	45:UM:22:GLU:OE1	2.21	0.40
45:VA:56:THR:HG23	45:VA:58:ALA:H	1.86	0.40
45:VA:223:THR:HG23	45:VA:225:THR:H	1.87	0.40
46:VB:116:VAL:O	46:VB:120:VAL:HG13	2.21	0.40
46:VB:303:ALA:HB2	46:VB:377:MET:SD	2.62	0.40
46:VB:324:LYS:O	46:VB:328:GLU:HG3	2.21	0.40
46:VD:8:GLN:OE1	46:VD:17:GLY:HA3	2.21	0.40
45:VE:8:HIS:ND1	45:VE:67:PHE:HE2	2.20	0.40
45:VE:200:VAL:HG13	45:VE:268:MET:CE	2.52	0.40
45:VE:270:SER:OG	45:VE:271:SER:N	2.53	0.40
46:VF:267:MET:HE2	46:VF:299:MET:HG2	2.04	0.40
45:VG:221:ARG:HH12	46:VH:324:LYS:HG2	1.83	0.40
46:VH:152:ILE:HD13	46:VH:152:ILE:HA	1.89	0.40
45:VI:1:MET:HB3	45:VI:2:ARG:HH12	1.86	0.40
45:VI:88:HIS:HB3	45:VI:91:GLN:HG2	2.04	0.40
45:VI:229:ARG:HH12	45:VI:363:VAL:HG21	1.87	0.40
45:VI:320:ARG:HB2	45:VI:358:GLN:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:VK:404:PHE:CD1	46:VL:259:PRO:HA	2.56	0.40
46:VL:86:ARG:HD3	46:VL:87:PRO:CD	2.52	0.40
46:VL:172:SER:HA	46:VL:173:PRO:HD3	1.90	0.40
46:VL:267:MET:HG3	46:VL:301:CYS:SG	2.61	0.40
45:VM:14:ILE:HD11	45:VM:69:ASP:HB2	2.03	0.40
45:VM:331:SER:O	45:VM:335:ILE:HG12	2.21	0.40
46:VN:207:LEU:HD13	46:VN:207:LEU:HA	1.90	0.40
46:VN:287:PRO:HG3	46:VN:329:GLN:NE2	2.36	0.40
45:WA:76:ASP:HA	45:WA:79:ARG:HG2	2.03	0.40
45:WA:98:ASP:OD2	45:WA:99:ALA:N	2.55	0.40
45:WC:19:ALA:HA	45:WC:22:GLU:OE1	2.20	0.40
45:WE:174:SER:HA	45:WE:205:ASP:OD2	2.22	0.40
46:WF:207:LEU:CB	46:WF:225:LEU:HD22	2.51	0.40
45:WG:18:ASN:O	45:WG:22:GLU:OE1	2.40	0.40
45:WG:148:GLY:O	45:WG:152:LEU:HD23	2.21	0.40
45:WK:88:HIS:HB3	45:WK:91:GLN:HG2	2.04	0.40
46:WL:313:ALA:HB1	46:WL:367:PHE:HE1	1.86	0.40
45:WM:187:SER:O	45:WM:191:THR:HG23	2.21	0.40
45:WM:401:LYS:NZ	46:WN:344:TRP:HB2	2.36	0.40
45:DC:18:ASN:HD22	45:DC:18:ASN:HA	1.75	0.40
6:0F:19:TRP:HZ2	45:EE:282:TYR:CZ	2.39	0.40
1:1A:98:THR:HA	46:MF:26:ASP:OD1	2.22	0.40
17:1F:154:PHE:HD1	46:GL:118:ASP:HB3	1.87	0.40
7:1G:97:ASN:O	46:JB:359:LYS:NZ	2.52	0.40
20:1K:245:TRP:CH2	46:GB:279:GLN:HG2	2.56	0.40
21:1L:874:LYS:NZ	46:BD:55:THR:HA	2.37	0.40
21:1L:895:SER:HB2	45:CC:367:ASP:OD1	2.21	0.40
23:1O:278:ARG:NH2	45:UA:219:ILE:HG23	2.35	0.40
31:2I:86:ASP:OD2	45:GE:214:ARG:HG2	2.20	0.40
21:2L:643:ARG:HB3	46:CL:362:LYS:NZ	2.36	0.40
25:2R:299:LEU:HA	46:CH:78:ALA:O	2.22	0.40
26:2W:241:MET:CE	46:LN:280:GLN:HG3	2.52	0.40
15:2X:90:ARG:NH2	34:5R:49:ASN:OD1	2.54	0.40
16:3B:59:PHE:HZ	45:LG:85:GLN:HG3	1.84	0.40
12:3T:81:PRO:HB3	45:MK:412:GLY:HA3	2.04	0.40
14:3V:122:LYS:CE	46:LD:390:ARG:HH12	2.31	0.40
34:4R:331:PRO:O	34:4R:360:TYR:OH	2.40	0.40
35:4S:98:TYR:CZ	35:4S:131:GLY:HA2	2.57	0.40
36:5A:172:LEU:HD22	36:5A:175:LYS:HZ3	1.86	0.40
36:5B:23:LEU:O	36:5B:59:TYR:HA	2.21	0.40
40:6G:191:ASP:HA	40:6G:194:VAL:HG22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:6H:289:LYS:HZ3	46:FH:276:ARG:HD2	1.85	0.40
34:6R:212:GLN:HE22	34:6R:216:LYS:HG3	1.87	0.40
34:7R:261:LEU:HD12	34:7R:272:ASN:O	2.22	0.40
34:7R:341:ARG:HB3	34:7R:341:ARG:NH1	2.36	0.40
45:AC:21:TRP:HZ2	45:AC:65:ALA:HB2	1.87	0.40
46:AD:301:CYS:HB3	46:AD:377:MET:CE	2.51	0.40
46:AD:318:ARG:HD2	46:AD:354:CYS:HB3	2.04	0.40
45:AE:386:GLU:O	45:AE:390:ARG:HG3	2.22	0.40
46:AF:49:VAL:HG12	46:AF:50:TYR:CD1	2.57	0.40
45:AG:417:GLU:N	45:AG:417:GLU:OE1	2.53	0.40
46:AL:8:GLN:OE1	46:AL:14:ASN:HA	2.22	0.40
45:AM:11:GLN:HB3	47:AM:501:GTP:O2A	2.22	0.40
45:AM:109:THR:HG21	45:AM:411:GLU:HB3	2.04	0.40
46:AN:21:TRP:HA	46:AN:24:ILE:HG22	2.03	0.40
46:AN:26:ASP:OD1	46:AN:359:LYS:NZ	2.51	0.40
46:AN:313:ALA:HB1	46:AN:367:PHE:HE1	1.85	0.40
45:BA:271:SER:HB2	45:BA:377:MET:HB3	2.03	0.40
46:BB:105:HIS:CE1	46:BB:150:LEU:HD12	2.57	0.40
46:BD:164:MET:CE	46:BD:196:ALA:HA	2.50	0.40
45:BE:224:TYR:CE1	47:BE:501:GTP:C6	3.10	0.40
45:BE:257:THR:HA	46:BH:397:TRP:CZ3	2.57	0.40
45:BG:237:SER:HA	45:BG:320:ARG:HH11	1.86	0.40
45:BI:156:ARG:HA	45:BI:156:ARG:HD3	1.81	0.40
45:BI:200:VAL:HG13	45:BI:268:MET:SD	2.62	0.40
45:BI:224:TYR:CD2	46:BJ:323:THR:HG21	2.56	0.40
45:BI:239:THR:HG23	45:BI:243:ARG:NH1	2.36	0.40
46:BJ:326:VAL:O	46:BJ:330:MET:HG2	2.21	0.40
45:BK:9:VAL:HG13	45:BK:139:ASN:HB3	2.03	0.40
45:BK:326:LYS:HE3	46:BN:220:PRO:CG	2.42	0.40
45:BK:342:GLN:OE1	45:BK:342:GLN:N	2.54	0.40
46:BL:289:LEU:HD23	46:BL:289:LEU:HA	1.88	0.40
45:CA:352:LYS:HD2	45:CA:352:LYS:HA	1.91	0.40
46:CB:139:LEU:HB3	46:CB:185:ALA:HA	2.04	0.40
45:CC:2:ARG:HG3	45:CC:133:GLN:NE2	2.36	0.40
45:CC:3:GLU:HB2	45:CC:129:CYS:SG	2.62	0.40
46:CD:164:MET:SD	46:CD:196:ALA:HA	2.62	0.40
46:CF:164:MET:O	46:CF:197:ASP:HB2	2.22	0.40
46:CF:179:VAL:HG23	45:CE:349:THR:O	2.22	0.40
45:CG:88:HIS:CD2	45:CG:90:GLU:HG3	2.56	0.40
46:CJ:137:HIS:HE2	46:CJ:168:SER:HG	1.62	0.40
46:DD:293:MET:HE1	46:DD:315:ALA:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:DD:386:THR:O	46:DD:390:ARG:HG2	2.22	0.40
45:DE:27:GLU:OE2	45:DE:236:SER:OG	2.29	0.40
45:DE:138:PHE:CE2	45:DE:169:PHE:HD1	2.40	0.40
45:DE:141:VAL:HG11	45:DE:172:TYR:HA	2.03	0.40
45:DG:239:THR:HG23	45:DG:243:ARG:HH21	1.87	0.40
46:DH:8:GLN:HE21	46:DH:65:LEU:CD2	2.34	0.40
46:DH:407:GLU:O	46:DH:410:GLU:HG2	2.22	0.40
46:DJ:134:GLN:HG3	46:DJ:165:GLU:HB3	2.04	0.40
46:DJ:252:LYS:HZ3	45:DK:101:ASN:N	2.19	0.40
46:DL:182:PRO:O	46:DL:186:THR:HG23	2.21	0.40
45:DM:124:LYS:HE2	45:DM:124:LYS:HB2	1.88	0.40
46:ED:105:HIS:CE1	46:ED:150:LEU:HD12	2.57	0.40
46:ED:233:MET:O	46:ED:236:VAL:HG12	2.21	0.40
46:ED:252:LYS:HA	45:EE:100:ALA:HB1	2.02	0.40
46:EH:224:ASP:O	46:EH:228:LEU:HD23	2.22	0.40
45:EI:212:ILE:CD1	45:EI:300:ASN:HA	2.51	0.40
45:EK:5:ILE:HB	45:EK:135:PHE:CD1	2.57	0.40
45:FA:136:LEU:HD21	45:FA:138:PHE:CZ	2.56	0.40
45:FG:102:ASN:OD1	45:FG:105:ARG:N	2.44	0.40
45:FI:272:TYR:CD1	45:FI:376:CYS:HB2	2.56	0.40
45:FI:434:GLU:O	45:FI:437:ILE:HG12	2.21	0.40
46:FJ:372:THR:HA	46:FJ:422:TYR:CE2	2.56	0.40
45:FK:188:ILE:HG22	45:FK:421:ALA:HB1	2.03	0.40
46:FN:5:VAL:HG22	46:FN:62:ARG:HD3	2.03	0.40
46:FN:248:SER:HA	46:FN:252:LYS:HD2	2.03	0.40
45:GA:88:HIS:CD2	45:HA:280:LYS:HZ1	2.39	0.40
45:GA:141:VAL:HG22	45:GA:187:SER:HA	2.02	0.40
45:GA:185:TYR:HE2	45:GA:404:PHE:HB2	1.86	0.40
46:GH:163:ILE:HD13	46:GH:251:ARG:HD2	2.03	0.40
46:GH:208:TYR:OH	46:GH:225:LEU:HD11	2.22	0.40
45:GK:311:LYS:N	45:GK:382:THR:OG1	2.53	0.40
45:GK:356:ASN:OD1	45:GK:357:TYR:N	2.55	0.40
46:GN:398:TYR:O	46:GN:403:MET:HE2	2.21	0.40
45:HC:10:GLY:O	45:HC:14:ILE:HG12	2.22	0.40
45:HC:171:ILE:HG23	45:HC:204:LEU:O	2.21	0.40
45:HC:425:LEU:HA	45:HC:425:LEU:HD23	1.79	0.40
45:HE:133:GLN:C	45:HE:252:ILE:HD11	2.42	0.40
46:HF:258:ILE:HG13	46:HF:258:ILE:O	2.21	0.40
45:HG:174:SER:HB2	45:HG:177:VAL:HB	2.03	0.40
46:HJ:295:ASP:OD2	46:HJ:296:ALA:N	2.55	0.40
45:HK:328:VAL:HG11	45:HK:353:VAL:HG21	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:HL:232:ALA:HB1	46:HL:268:ILE:HD12	2.03	0.40
45:HM:141:VAL:HG12	45:HM:171:ILE:O	2.22	0.40
45:HM:398:MET:CE	46:HN:345:ILE:HA	2.52	0.40
46:ID:116:VAL:HA	46:ID:119:VAL:HG12	2.03	0.40
45:IE:143:GLY:HA3	47:IE:501:GTP:O2B	2.20	0.40
46:IH:350:LYS:HB2	46:IH:350:LYS:HE2	1.70	0.40
46:IH:372:THR:HA	46:IH:422:TYR:CE2	2.56	0.40
45:II:74:VAL:HA	45:II:77:GLU:OE1	2.21	0.40
46:IJ:21:TRP:CZ3	46:IJ:61:PRO:HB3	2.57	0.40
46:IJ:67:ASP:O	46:IJ:92:PHE:HA	2.20	0.40
45:IK:121:ARG:HA	45:IK:121:ARG:NE	2.37	0.40
46:IL:86:ARG:NE	46:IL:89:ASN:OD1	2.29	0.40
46:IL:325:GLU:HA	46:IL:328:GLU:HG2	2.03	0.40
46:JB:161:ASP:OD1	46:JB:162:ARG:N	2.54	0.40
46:JB:267:MET:HB2	46:JB:299:MET:HE2	2.03	0.40
45:JC:175:PRO:HG3	45:JC:390:ARG:NH2	2.37	0.40
46:JD:108:GLU:HA	46:JD:111:GLU:CG	2.50	0.40
45:JE:88:HIS:HB3	45:JE:91:GLN:HG2	2.03	0.40
45:JG:384:ILE:O	45:JG:387:VAL:HG22	2.22	0.40
46:JH:140:GLY:HA3	46:JH:171:PRO:HG3	2.03	0.40
45:JI:320:ARG:HD3	45:JI:360:PRO:HG3	2.02	0.40
46:JJ:182:PRO:O	46:JJ:186:THR:HG22	2.21	0.40
45:JK:33:ASP:HA	45:JK:85:GLN:HB2	2.04	0.40
45:JK:308:ARG:HH22	45:JK:341:ILE:HA	1.86	0.40
45:JM:121:ARG:HH21	45:JM:124:LYS:HD3	1.86	0.40
46:JN:274:THR:HB	46:JN:282:ARG:HH21	1.86	0.40
46:JN:334:GLN:OE1	46:JN:334:GLN:HA	2.21	0.40
45:KA:98:ASP:OD1	45:KA:99:ALA:N	2.55	0.40
45:KA:407:TRP:HZ2	46:KB:258:ILE:HB	1.87	0.40
46:KB:67:ASP:OD1	46:KB:68:LEU:N	2.51	0.40
46:KB:259:PRO:HG3	46:KB:311:LEU:HD21	2.04	0.40
45:KC:180:ALA:N	45:KC:183:GLU:OE1	2.53	0.40
45:KG:1:MET:HG2	45:KG:131:GLY:HA3	2.03	0.40
45:KG:404:PHE:CE1	46:KH:259:PRO:HA	2.57	0.40
45:KI:27:GLU:HB3	45:KI:361:THR:HG21	2.04	0.40
45:KM:107:HIS:ND1	45:KM:107:HIS:O	2.54	0.40
45:KM:137:VAL:HG23	45:KM:168:GLY:HA2	2.04	0.40
45:KM:430:LYS:HA	45:KM:430:LYS:HE2	2.03	0.40
46:KN:22:GLU:HG2	46:KN:81:PHE:HD1	1.85	0.40
45:LA:426:ALA:HA	45:LA:429:GLU:OE1	2.22	0.40
45:LG:41:THR:HG22	45:LG:41:THR:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:LI:55:GLU:OE2	45:LI:61:HIS:NE2	2.54	0.40
45:LK:88:HIS:ND1	45:LK:90:GLU:HG2	2.37	0.40
46:MB:1:MET:O	46:MB:2:ARG:HG2	2.22	0.40
46:MB:178:THR:HG22	46:MB:179:VAL:N	2.35	0.40
45:MC:149:LEU:HD12	45:MC:149:LEU:HA	1.88	0.40
45:MC:275:ILE:HG23	45:MC:368:LEU:HD11	2.03	0.40
46:MD:237:THR:HG23	46:MD:241:ARG:HH21	1.86	0.40
45:ME:370:LYS:O	45:ME:370:LYS:HG3	2.22	0.40
45:MG:414:GLU:CD	45:MG:416:GLY:H	2.24	0.40
46:MH:293:MET:HG2	46:MH:367:PHE:HB2	2.04	0.40
46:MJ:242:PHE:HB2	46:MJ:354:CYS:SG	2.61	0.40
46:MJ:326:VAL:O	46:MJ:330:MET:HG2	2.22	0.40
45:MK:88:HIS:ND1	45:MK:89:PRO:HD2	2.36	0.40
46:ML:73:MET:CE	46:ML:92:PHE:HB3	2.52	0.40
45:MM:141:VAL:HG12	45:MM:171:ILE:O	2.21	0.40
45:MM:179:THR:O	46:MN:350:LYS:HA	2.22	0.40
45:NA:28:HIS:HE2	45:NA:48:ALA:HB3	1.87	0.40
45:NA:37:PRO:HB2	45:NA:39:ASP:OD1	2.22	0.40
46:ND:6:HIS:O	46:ND:63:ALA:HA	2.21	0.40
45:NG:49:PHE:O	45:NG:53:PHE:N	2.46	0.40
45:NG:326:LYS:HD3	46:NJ:220:PRO:HD2	2.03	0.40
45:NK:276:ILE:HD11	45:NK:283:HIS:ND1	2.36	0.40
46:NL:130:LEU:HD21	46:NL:133:PHE:CE1	2.57	0.40
45:NM:372:MET:N	45:NM:372:MET:SD	2.95	0.40
46:NN:22:GLU:HA	46:NN:25:SER:OG	2.21	0.40
46:NN:175:VAL:HG21	46:NN:204:ASN:HB2	2.03	0.40
45:OA:433:GLU:O	45:OA:437:ILE:HG23	2.21	0.40
46:OB:275:SER:O	46:OB:279:GLN:HG3	2.21	0.40
45:OC:121:ARG:O	45:OC:125:LEU:HD23	2.20	0.40
45:OG:338:LYS:HE2	45:OG:340:THR:HG22	2.04	0.40
45:OG:377:MET:SD	45:OG:379:SER:HB3	2.62	0.40
46:OH:184:ASN:OD1	46:OH:185:ALA:N	2.55	0.40
45:OI:88:HIS:CD2	45:PI:280:LYS:NZ	2.90	0.40
45:OI:196:GLU:OE1	45:OI:196:GLU:N	2.52	0.40
46:OL:132:GLY:CA	46:OL:163:ILE:O	2.69	0.40
46:OL:209:ASP:OD2	46:OL:297:LYS:HE2	2.21	0.40
45:PA:68:LEU:HD21	45:PA:118:CYS:SG	2.62	0.40
45:PA:183:GLU:N	45:PA:184:PRO:HD2	2.36	0.40
45:PC:8:HIS:HB2	45:PC:67:PHE:CD1	2.56	0.40
46:PF:377:MET:HG3	46:PF:380:ARG:NH2	2.35	0.40
45:PG:88:HIS:CE1	45:PG:90:GLU:HG3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:PH:97:ALA:HB3	46:PH:143:THR:HB	2.03	0.40
46:PH:187:LEU:HD21	46:PH:408:PHE:CE2	2.56	0.40
46:PH:188:SER:O	46:PH:192:LEU:HD23	2.21	0.40
46:PH:205:GLU:HG2	46:PH:206:ALA:N	2.35	0.40
45:PI:276:ILE:HD11	45:PI:280:LYS:HG3	2.03	0.40
45:PI:352:LYS:NZ	46:PL:179:VAL:HG22	2.36	0.40
46:PJ:178:THR:HB	46:PJ:181:GLU:HG3	2.03	0.40
46:PL:94:GLN:HA	46:PL:94:GLN:OE1	2.22	0.40
45:PM:141:VAL:HG11	45:PM:172:TYR:HA	2.02	0.40
46:PN:10:GLY:O	46:PN:14:ASN:ND2	2.54	0.40
46:PN:208:TYR:HA	46:PN:211:CYS:SG	2.61	0.40
46:PN:326:VAL:O	46:PN:330:MET:HG2	2.22	0.40
46:PN:377:MET:O	46:PN:381:VAL:HG22	2.21	0.40
45:QA:12:GLY:HA2	45:QA:15:GLN:HE21	1.86	0.40
46:QB:147:MET:HA	46:QB:150:LEU:HG	2.03	0.40
46:QD:327:ASP:O	46:QD:330:MET:HG2	2.22	0.40
45:QG:215:ARG:NH2	45:QG:299:ALA:O	2.52	0.40
46:QH:198:GLU:OE2	46:QH:254:ALA:HA	2.21	0.40
46:QH:238:CYS:SG	46:QH:239:CYS:N	2.95	0.40
45:QI:136:LEU:HD13	45:QI:167:LEU:HB2	2.04	0.40
45:QI:242:LEU:HD11	45:QI:251:ASP:OD1	2.22	0.40
46:QJ:190:HIS:HA	46:QJ:415:MET:HE3	2.03	0.40
46:QJ:347:ASN:C	46:QJ:347:ASN:HD22	2.24	0.40
45:QM:189:LEU:HD11	45:QM:418:PHE:CE1	2.57	0.40
45:RA:64:ARG:HG3	45:RA:125:LEU:HD22	2.03	0.40
46:RB:6:HIS:O	46:RB:63:ALA:HA	2.22	0.40
46:RB:222:TYR:O	46:RB:226:ASN:ND2	2.40	0.40
45:RE:171:ILE:HG22	45:RE:204:LEU:CB	2.51	0.40
46:RF:19:LYS:HD2	46:RF:227:HIS:CE1	2.56	0.40
45:RG:166:LYS:HD2	45:RG:197:HIS:O	2.21	0.40
45:RI:141:VAL:HG22	45:RI:187:SER:HA	2.03	0.40
45:RM:20:CYS:HA	45:RM:232:ALA:HB1	2.02	0.40
46:RN:97:ALA:HB3	46:RN:143:THR:HB	2.03	0.40
45:SA:288:VAL:HA	45:SA:291:ILE:HG12	2.02	0.40
46:SB:210:ILE:O	46:SB:214:THR:OG1	2.21	0.40
45:SC:229:ARG:HH22	45:SC:366:GLY:HA3	1.87	0.40
45:SE:174:SER:HB2	45:SE:177:VAL:O	2.20	0.40
45:SE:244:PHE:HB2	45:SE:356:ASN:HD21	1.84	0.40
46:SF:282:ARG:HE	46:SF:288:GLU:CD	2.24	0.40
45:SG:430:LYS:O	45:SG:433:GLU:HG3	2.21	0.40
46:SH:323:THR:O	46:SH:327:ASP:OD2	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:SK:247:ALA:HB3	45:SK:355:ILE:HD11	2.02	0.40
46:SL:179:VAL:HG23	46:SL:180:VAL:HG13	2.04	0.40
45:SM:123:ARG:HA	45:SM:123:ARG:HD3	1.61	0.40
45:SM:388:PHE:HA	45:SM:391:LEU:HG	2.04	0.40
46:SN:403:MET:HG3	46:SN:407:GLU:OE2	2.21	0.40
46:TB:22:GLU:HG2	46:TB:81:PHE:CD1	2.57	0.40
46:TB:129:CYS:SG	45:TC:96:LYS:HD3	2.61	0.40
46:TB:241:ARG:H	46:TB:241:ARG:HD3	1.87	0.40
46:TB:280:GLN:H	46:TB:280:GLN:HG3	1.68	0.40
45:TC:165:SER:C	45:TC:166:LYS:HD3	2.42	0.40
45:TC:426:ALA:HA	45:TC:429:GLU:CD	2.42	0.40
46:TD:109:GLY:O	46:TD:113:ILE:HG23	2.21	0.40
46:TD:378:PHE:HA	46:TD:381:VAL:HG22	2.04	0.40
45:TG:324:VAL:HG11	45:TG:326:LYS:NZ	2.36	0.40
46:TH:327:ASP:OD1	46:TH:328:GLU:N	2.54	0.40
46:TJ:161:ASP:OD1	46:TJ:162:ARG:N	2.55	0.40
46:TJ:391:ARG:HA	46:TJ:391:ARG:HD2	1.79	0.40
45:TK:346:TRP:H	45:TK:346:TRP:HD1	1.70	0.40
45:TK:422:ARG:HD2	45:TK:422:ARG:HA	1.91	0.40
46:TL:311:LEU:N	46:TL:370:ASN:O	2.53	0.40
45:TM:319:TYR:HB3	45:TM:373:ARG:HH12	1.86	0.40
45:UA:322:ASP:OD1	45:UA:373:ARG:NH1	2.52	0.40
45:UC:209:ILE:CD1	45:UC:230:LEU:HD23	2.52	0.40
45:UE:175:PRO:HG3	45:UE:390:ARG:CZ	2.51	0.40
45:UE:181:VAL:HG23	45:UE:182:VAL:HG23	2.03	0.40
46:UF:148:GLY:O	46:UF:152:ILE:HG12	2.21	0.40
46:UJ:72:THR:O	46:UJ:75:SER:OG	2.33	0.40
46:UJ:86:ARG:HG3	46:UJ:88:ASP:H	1.86	0.40
46:UJ:304:ASP:OD1	46:UJ:306:ARG:HG2	2.22	0.40
46:UJ:404:ASP:OD1	46:UJ:406:MET:HB3	2.22	0.40
45:VA:141:VAL:HG22	45:VA:187:SER:HA	2.04	0.40
45:VA:402:ARG:HD3	45:VA:402:ARG:HA	1.94	0.40
46:VB:158:GLU:HG3	46:VB:159:TYR:CE1	2.57	0.40
46:VB:203:ASP:O	46:VB:207:LEU:HG	2.22	0.40
46:VF:52:ASN:OD1	46:VF:62:ARG:NH2	2.54	0.40
46:VF:100:ASN:HD21	46:VF:102:ALA:HB3	1.87	0.40
46:VH:4:ILE:HG13	46:VH:132:GLY:O	2.21	0.40
46:VH:213:ARG:HA	46:VH:216:LYS:HZ2	1.86	0.40
46:VH:316:LEU:HG	46:VH:352:SER:HB2	2.02	0.40
45:VI:296:PHE:HD2	45:VI:335:ILE:HD12	1.87	0.40
46:VJ:175:VAL:HG22	46:VJ:205:GLU:OE2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:VJ:350:LYS:HA	46:VJ:350:LYS:HE2	2.03	0.40
46:VL:316:LEU:HD13	46:VL:352:SER:HB2	2.02	0.40
45:WA:210:TYR:O	45:WA:214:ARG:HG2	2.21	0.40
46:WB:287:PRO:HA	46:WB:290:THR:HG22	2.04	0.40
45:WC:31:GLN:OE1	45:WC:36:MET:HA	2.21	0.40
45:WC:166:LYS:O	45:WC:199:ASP:HB3	2.21	0.40
45:WE:98:ASP:H	46:WF:2:ARG:HH12	1.70	0.40
45:WE:153:LEU:HD13	45:WE:153:LEU:HA	1.94	0.40
45:WE:398:MET:CE	46:WF:345:ILE:HA	2.51	0.40
46:WF:326:VAL:O	46:WF:330:MET:HG2	2.21	0.40
45:WG:422:ARG:O	45:WG:425:LEU:HG	2.21	0.40
46:WH:139:LEU:HD22	46:WH:188:SER:OG	2.22	0.40
46:WL:20:PHE:O	46:WL:24:ILE:HG12	2.21	0.40
46:WN:32:PRO:HG3	46:WN:81:PHE:CZ	2.57	0.40
46:WN:211:CYS:SG	46:WN:220:PRO:HB3	2.61	0.40
45:CE:21:TRP:HZ2	45:CE:65:ALA:HB2	1.86	0.40
1:0A:46:LYS:HE2	34:7R:67:TYR:HD2	1.85	0.40
21:1L:479:VAL:HG12	46:CF:279:GLN:HB3	2.03	0.40
9:1N:10:TYR:HA	46:IJ:53:GLU:OE1	2.22	0.40
31:2I:118:LYS:NZ	45:GC:339:ARG:HB3	2.37	0.40
31:3I:287:ARG:HH12	45:FG:59:GLY:HA2	1.84	0.40
34:4R:318:TYR:CE1	46:CF:273:LEU:HA	2.56	0.40
34:4R:424:LEU:HB2	34:4R:446:PHE:HB3	2.04	0.40
34:4R:570:VAL:HG21	34:4R:582:TYR:CE1	2.57	0.40
36:5C:59:TYR:N	46:KJ:390:ARG:HH12	2.19	0.40
37:5E:85:GLN:OE1	37:5E:87:LEU:HG	2.21	0.40
37:5H:67:ARG:HD3	37:5H:68:PRO:O	2.21	0.40
40:6G:128:LYS:HE3	45:VG:337:THR:HG21	2.03	0.40
40:6G:272:LYS:HG2	45:UC:119:LEU:HD11	2.04	0.40
41:6H:203:ASP:N	41:6H:203:ASP:OD2	2.54	0.40
41:6H:209:LEU:HD23	41:6H:209:LEU:H	1.85	0.40
34:6R:167:VAL:HA	34:6R:180:ILE:HG22	2.02	0.40
34:6R:525:GLU:HB3	34:6R:584:GLU:HG3	2.04	0.40
34:7R:87:LYS:HE3	34:7R:88:TYR:CZ	2.56	0.40
34:7R:206:ASN:HB2	34:7R:210:GLU:OE2	2.21	0.40
34:7R:315:MET:HG2	46:CB:26:ASP:OD2	2.21	0.40
34:7R:456:TYR:HE2	45:EA:46:ASP:HB3	1.86	0.40
45:AA:46:ASP:OD2	45:AA:47:ASP:N	2.55	0.40
45:AA:114:ILE:HG22	45:AA:118:CYS:SG	2.61	0.40
46:AB:3:GLU:H	46:AB:3:GLU:CD	2.25	0.40
45:AE:28:HIS:CE1	45:AE:49:PHE:HA	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AG:188:ILE:HD12	45:AG:425:LEU:HD11	2.03	0.40
45:AI:174:SER:HB2	45:AI:177:VAL:O	2.20	0.40
45:AI:280:LYS:HB3	45:MI:89:PRO:HG2	2.04	0.40
45:AI:397:LEU:HD23	45:AI:397:LEU:HA	1.90	0.40
45:AI:420:GLU:O	45:AI:423:GLU:HG2	2.20	0.40
45:AM:271:SER:HB3	45:AM:377:MET:SD	2.62	0.40
45:AM:338:LYS:HD2	45:AM:338:LYS:HA	1.84	0.40
45:AM:340:THR:HG23	45:AM:341:ILE:HG13	2.03	0.40
46:BD:306:ARG:HD2	46:BD:340:TYR:CE2	2.57	0.40
46:BD:344:TRP:CE3	46:BD:345:ILE:HG23	2.57	0.40
46:BF:87:PRO:HA	46:BF:90:PHE:CD2	2.35	0.40
46:BH:256:ASN:HB3	46:BH:350:LYS:HD2	2.03	0.40
46:BH:396:HIS:CE1	46:BH:397:TRP:HD1	2.39	0.40
46:BJ:87:PRO:HA	46:BJ:90:PHE:CD2	2.56	0.40
45:BM:384:ILE:HD12	45:BM:384:ILE:HA	1.92	0.40
46:BN:22:GLU:OE2	46:BN:80:PRO:HB2	2.22	0.40
46:BN:65:LEU:HD22	46:BN:90:PHE:HE1	1.86	0.40
45:CC:176:GLN:OE1	45:CC:176:GLN:N	2.55	0.40
46:CF:16:ILE:HD13	46:CF:226:ASN:OD1	2.21	0.40
46:CF:18:ALA:O	46:CF:22:GLU:HG3	2.21	0.40
45:CG:149:LEU:O	45:CG:153:LEU:HD23	2.22	0.40
46:CH:47:ILE:HG13	46:CH:48:ASN:N	2.37	0.40
45:CI:231:ILE:O	45:CI:235:ILE:HG12	2.21	0.40
45:CK:118:CYS:SG	45:CK:153:LEU:HD11	2.61	0.40
45:CK:439:THR:HB	46:CL:391:ARG:HD3	2.04	0.40
46:CL:30:ILE:HG21	46:CL:51:TYR:HE2	1.85	0.40
46:CL:239:CYS:SG	46:CL:247:ASN:HA	2.61	0.40
46:CL:362:LYS:HD3	46:CL:362:LYS:HA	1.81	0.40
46:CN:21:TRP:CD1	46:CN:85:PHE:HZ	2.40	0.40
45:DA:260:VAL:HG13	45:DA:265:ILE:O	2.21	0.40
46:DB:148:GLY:O	46:DB:152:ILE:HG12	2.21	0.40
46:DB:282:ARG:HH21	46:DB:288:GLU:CD	2.24	0.40
46:DD:15:GLN:HA	46:DD:15:GLN:OE1	2.22	0.40
46:DD:287:PRO:O	46:DD:290:THR:HG22	2.22	0.40
45:DE:169:PHE:HD2	45:DE:202:VAL:HB	1.87	0.40
45:DE:319:TYR:CE2	45:DE:375:VAL:HB	2.56	0.40
46:DF:330:MET:HA	46:DF:333:VAL:HG12	2.04	0.40
46:DH:386:THR:O	46:DH:390:ARG:HG2	2.21	0.40
46:DL:324:LYS:HA	46:DL:324:LYS:HE3	2.03	0.40
46:DN:44:LEU:HD23	46:DN:44:LEU:HA	1.92	0.40
45:EA:9:VAL:HG13	45:EA:139:ASN:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:EA:69:ASP:O	45:EA:94:SER:HA	2.22	0.40
46:EB:10:GLY:O	46:EB:14:ASN:ND2	2.53	0.40
46:EB:20:PHE:O	46:EB:24:ILE:HG12	2.20	0.40
45:EC:91:GLN:CD	45:EC:121:ARG:HE	2.24	0.40
45:EC:118:CYS:O	45:EC:122:ILE:HG13	2.21	0.40
46:ED:293:MET:SD	46:ED:367:PHE:HB2	2.61	0.40
45:EE:272:TYR:HD2	45:EE:275:ILE:HD11	1.87	0.40
46:EF:267:MET:HE2	46:EF:299:MET:HG3	2.03	0.40
45:EI:331:SER:O	45:EI:335:ILE:HG12	2.21	0.40
45:EI:348:PRO:HD2	46:EJ:388:MET:HE2	2.03	0.40
46:EL:143:THR:OG1	49:EL:501:GDP:O1B	2.40	0.40
46:EL:202:ILE:HG23	46:EL:300:MET:SD	2.61	0.40
46:EL:252:LYS:HA	46:EL:255:VAL:HG12	2.02	0.40
46:EL:396:HIS:HA	46:EL:399:THR:OG1	2.22	0.40
45:EM:102:ASN:ND2	45:EM:105:ARG:HG3	2.37	0.40
46:EN:310:TYR:CD1	46:EN:371:SER:HB2	2.56	0.40
45:FA:203:MET:CE	45:FA:267:PHE:HB3	2.46	0.40
45:FA:326:LYS:HA	45:FA:326:LYS:HD2	1.79	0.40
45:FA:362:VAL:HA	45:FA:368:LEU:HD11	2.03	0.40
46:FB:3:GLU:CD	46:FB:49:VAL:HA	2.41	0.40
46:FB:69:GLU:HA	46:FB:70:PRO:HD3	1.88	0.40
45:FE:88:HIS:ND1	45:FE:89:PRO:HD2	2.36	0.40
45:FE:312:TYR:HB2	45:FE:343:PHE:CD2	2.56	0.40
46:FF:86:ARG:NH2	46:GF:281:TYR:HD2	2.20	0.40
46:FF:226:ASN:ND2	49:FF:501:GDP:HN1	2.19	0.40
46:FF:253:LEU:O	46:FF:257:LEU:HB2	2.22	0.40
45:FG:71:GLU:OE1	46:FH:247:ASN:ND2	2.53	0.40
45:FI:35:GLN:HG2	45:FI:60:LYS:HZ3	1.87	0.40
45:FM:216:ASN:HB3	45:FM:275:ILE:O	2.22	0.40
45:GC:155:GLU:HG3	45:GC:197:HIS:NE2	2.36	0.40
45:GC:261:PRO:HA	46:GF:394:PHE:CE2	2.57	0.40
46:GD:105:HIS:HD1	46:GD:106:TYR:HD1	1.70	0.40
46:GD:105:HIS:HD2	46:GD:146:GLY:O	2.05	0.40
45:GE:425:LEU:HA	45:GE:425:LEU:HD23	1.78	0.40
46:GF:216:LYS:HA	46:GF:216:LYS:HD2	1.80	0.40
46:GJ:210:ILE:O	46:GJ:214:THR:HG22	2.22	0.40
46:GJ:288:GLU:OE2	46:GJ:291:GLN:NE2	2.54	0.40
46:GL:21:TRP:CZ3	46:GL:61:PRO:HB3	2.57	0.40
46:GL:274:THR:HB	46:GL:282:ARG:NH2	2.36	0.40
45:GM:242:LEU:HD11	45:GM:252:ILE:HG13	2.04	0.40
46:GN:100:ASN:HD21	46:GN:102:ALA:HB3	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:GN:212:PHE:O	46:GN:216:LYS:HA	2.21	0.40
45:HA:243:ARG:O	45:HA:244:PHE:HD1	2.04	0.40
45:HC:179:THR:O	46:HD:350:LYS:HA	2.22	0.40
46:HD:332:ASN:O	46:HD:336:LYS:HE2	2.21	0.40
45:HE:108:TYR:HA	45:HE:112:LYS:NZ	2.37	0.40
45:HE:407:TRP:CG	46:HF:255:VAL:HG23	2.56	0.40
45:HG:167:LEU:HD11	45:HG:252:ILE:HG23	2.04	0.40
45:HG:298:PRO:HG3	45:HG:308:ARG:NH1	2.36	0.40
46:HH:208:TYR:CE1	46:HH:225:LEU:HD11	2.56	0.40
45:HK:210:TYR:OH	46:HL:323:THR:OG1	2.38	0.40
45:HK:260:VAL:HG13	45:HK:265:ILE:O	2.22	0.40
46:HN:187:LEU:HD11	46:HN:408:PHE:CE1	2.56	0.40
45:IA:31:GLN:HB3	45:IA:32:PRO:HD2	2.03	0.40
46:IB:151:LEU:O	46:IB:155:VAL:HG22	2.21	0.40
45:IG:302:MET:HE3	45:IG:302:MET:HB2	1.74	0.40
45:IG:398:MET:CE	46:IH:345:ILE:HA	2.51	0.40
45:II:430:LYS:HD2	45:II:430:LYS:HA	1.86	0.40
46:IJ:217:LEU:HD23	46:IJ:217:LEU:H	1.86	0.40
46:IJ:304:ASP:OD2	46:IJ:307:HIS:N	2.55	0.40
45:IK:287:SER:N	45:IK:290:GLU:OE2	2.45	0.40
45:IK:322:ASP:OD1	45:IK:373:ARG:NH1	2.54	0.40
46:IL:289:LEU:CD2	46:IL:363:MET:HG2	2.51	0.40
45:IM:210:TYR:CG	46:IN:324:LYS:HD3	2.57	0.40
46:JB:209:ASP:OD1	46:JB:210:ILE:N	2.55	0.40
45:JC:26:LEU:HD11	45:JC:364:PRO:HD2	2.04	0.40
45:JC:115:VAL:O	45:JC:119:LEU:HD23	2.22	0.40
45:JE:27:GLU:HB2	45:JE:361:THR:HG21	2.02	0.40
45:JE:368:LEU:H	45:JE:368:LEU:HD12	1.87	0.40
46:JF:409:THR:O	46:JF:412:GLU:HG3	2.22	0.40
45:JG:71:GLU:HA	45:JG:72:PRO:HD3	1.91	0.40
45:JI:105:ARG:HG2	45:JI:411:GLU:OE2	2.22	0.40
45:JI:250:VAL:HG13	45:JI:254:GLU:HB2	2.02	0.40
45:JK:211:ASP:HA	45:JK:214:ARG:CG	2.51	0.40
45:JK:238:LEU:HD11	45:JK:255:PHE:CZ	2.57	0.40
45:JK:346:TRP:CD1	46:JN:391:ARG:HG3	2.57	0.40
46:JL:21:TRP:CZ3	46:JL:61:PRO:HB3	2.57	0.40
46:JL:115:SER:O	46:JL:119:VAL:HG23	2.21	0.40
45:JM:63:PRO:HB2	45:JM:91:GLN:HE22	1.86	0.40
45:JM:105:ARG:HA	45:JM:411:GLU:OE2	2.21	0.40
45:JM:428:LEU:HG	45:JM:432:TYR:HE2	1.86	0.40
46:KF:6:HIS:NE2	46:KF:8:GLN:OE1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:KG:177:VAL:HG12	45:KG:207:GLU:OE2	2.22	0.40
45:KG:210:TYR:OH	46:KH:323:THR:OG1	2.29	0.40
46:KH:105:HIS:CE1	46:KH:150:LEU:HD12	2.57	0.40
45:KI:181:VAL:HG12	46:KJ:347:ASN:O	2.22	0.40
45:KI:215:ARG:HE	45:KI:216:ASN:CG	2.25	0.40
45:LC:338:LYS:NZ	45:LC:340:THR:OG1	2.54	0.40
46:LD:232:ALA:HB1	46:LD:268:ILE:HD12	2.04	0.40
46:LF:105:HIS:CD2	46:LF:150:LEU:HB2	2.57	0.40
46:LF:334:GLN:HE22	46:LF:348:ASN:N	2.16	0.40
45:LI:221:ARG:HA	46:LJ:324:LYS:NZ	2.27	0.40
45:LI:328:VAL:HG11	45:LI:353:VAL:HG21	2.02	0.40
46:LJ:177:ASP:OD2	49:LJ:501:GDP:O3'	2.33	0.40
45:LK:27:GLU:CD	45:LK:243:ARG:HH12	2.24	0.40
45:LK:229:ARG:NH1	45:LK:366:GLY:HA2	2.37	0.40
45:LK:377:MET:SD	45:LK:379:SER:HB3	2.62	0.40
45:LM:220:GLU:OE2	45:LM:221:ARG:HG3	2.21	0.40
45:MA:229:ARG:HD3	45:MA:363:VAL:HG11	2.03	0.40
45:MC:151:SER:HB2	45:MC:193:SER:OG	2.22	0.40
45:MC:318:MET:O	45:MC:375:VAL:HA	2.22	0.40
45:MI:422:ARG:HB3	45:MI:422:ARG:CZ	2.51	0.40
46:MJ:342:VAL:HG13	46:MJ:345:ILE:HG22	2.03	0.40
45:MK:51:THR:HG21	45:MK:243:ARG:HD3	2.03	0.40
45:MK:147:SER:HB2	45:MK:190:SER:HB3	2.04	0.40
45:MK:188:ILE:HD12	45:MK:425:LEU:HD22	2.04	0.40
45:MK:285:GLN:OE1	45:MK:285:GLN:N	2.52	0.40
46:ML:1:MET:SD	46:ML:46:ARG:NH1	2.94	0.40
46:ML:175:VAL:HG23	46:ML:175:VAL:O	2.21	0.40
45:NA:121:ARG:HH12	45:NA:124:LYS:HB2	1.86	0.40
45:NA:227:LEU:O	45:NA:231:ILE:HG12	2.22	0.40
46:ND:378:PHE:HA	46:ND:381:VAL:HG22	2.03	0.40
45:NE:151:SER:HB2	45:NE:193:SER:OG	2.22	0.40
45:NE:167:LEU:HD22	45:NE:200:VAL:HB	2.04	0.40
45:NE:186:ASN:OD1	45:NE:187:SER:N	2.55	0.40
46:NF:286:VAL:CG2	46:NF:287:PRO:HD3	2.52	0.40
45:NI:3:GLU:OE2	45:NI:131:GLY:N	2.53	0.40
45:NK:287:SER:O	45:NK:290:GLU:HG3	2.22	0.40
45:NK:333:ALA:HA	45:NK:336:LYS:HZ3	1.86	0.40
46:NL:105:HIS:CE1	46:NL:150:LEU:HD12	2.56	0.40
46:NL:309:ARG:HH21	46:NL:342:VAL:HG23	1.85	0.40
45:NM:231:ILE:O	45:NM:235:ILE:HG12	2.20	0.40
45:NM:271:SER:O	45:NM:377:MET:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:NN:21:TRP:CZ2	46:NN:63:ALA:HB2	2.57	0.40
46:NN:51:TYR:CD1	46:NN:61:PRO:HA	2.57	0.40
45:OA:121:ARG:NH2	45:OA:125:LEU:HD21	2.36	0.40
45:OA:326:LYS:HD2	46:OD:208:TYR:CD1	2.56	0.40
46:OB:225:LEU:O	46:OB:228:LEU:HG	2.21	0.40
46:OB:403:MET:HG3	46:OB:407:GLU:OE2	2.22	0.40
45:OC:132:LEU:O	45:OC:164:LYS:NZ	2.34	0.40
45:OC:204:LEU:HD23	45:OC:204:LEU:HA	1.97	0.40
45:OE:210:TYR:CE2	46:OF:324:LYS:HA	2.48	0.40
46:OF:267:MET:HG3	46:OF:299:MET:CE	2.49	0.40
45:OG:434:GLU:O	45:OG:437:ILE:HG22	2.21	0.40
45:OI:90:GLU:CG	45:PI:280:LYS:HE2	2.52	0.40
45:OM:71:GLU:HG2	46:ON:247:ASN:HD22	1.86	0.40
45:OM:222:PRO:O	46:ON:322:SER:HB2	2.21	0.40
46:PB:258:ILE:HG13	46:PB:266:PHE:HZ	1.86	0.40
46:PD:28:HIS:HA	46:PD:43:GLN:CD	2.41	0.40
46:PD:267:MET:CE	46:PD:301:CYS:HB2	2.52	0.40
45:PE:426:ALA:O	45:PE:429:GLU:HG2	2.21	0.40
46:PH:385:PHE:HE2	46:PH:412:GLU:HB3	1.85	0.40
45:PI:176:GLN:O	46:PJ:331:LEU:HD21	2.21	0.40
46:PJ:286:VAL:HG12	46:PJ:329:GLN:OE1	2.22	0.40
46:PJ:309:ARG:NH1	46:PJ:343:GLU:OE1	2.52	0.40
45:QA:27:GLU:OE2	45:QA:28:HIS:ND1	2.55	0.40
46:QB:251:ARG:HE	45:QC:105:ARG:NH1	2.19	0.40
46:QD:330:MET:HA	46:QD:333:VAL:HG12	2.02	0.40
46:QF:286:VAL:HB	46:QF:287:PRO:HD3	2.04	0.40
45:QG:220:GLU:C	45:QG:221:ARG:HD3	2.41	0.40
45:QI:175:PRO:HG3	45:QI:390:ARG:NH2	2.36	0.40
45:QI:352:LYS:HD3	46:QJ:178:THR:HA	2.04	0.40
45:QM:90:GLU:HG3	45:QM:121:ARG:NH2	2.37	0.40
45:RC:19:ALA:HB2	45:RC:228:ASN:HB3	2.03	0.40
45:RC:209:ILE:HD12	45:RC:227:LEU:HD22	2.03	0.40
45:RE:102:ASN:ND2	45:RE:105:ARG:HG3	2.35	0.40
46:RF:408:PHE:O	46:RF:411:ALA:N	2.54	0.40
45:RG:280:LYS:HD2	45:RG:283:HIS:CG	2.56	0.40
46:RH:5:VAL:HA	46:RH:62:ARG:HG3	2.03	0.40
46:RH:200:MET:HE2	46:RH:266:PHE:HB2	2.03	0.40
45:RI:147:SER:HB2	45:RI:190:SER:HB3	2.03	0.40
46:RJ:153:SER:O	46:RJ:156:ARG:HB3	2.22	0.40
46:RJ:182:PRO:O	46:RJ:186:THR:HG23	2.21	0.40
46:RJ:224:ASP:O	46:RJ:228:LEU:HD23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:RL:153:SER:O	46:RL:157:GLU:OE1	2.39	0.40
46:RL:258:ILE:HB	45:RM:407:TRP:CZ2	2.57	0.40
45:RM:260:VAL:HG13	45:RM:265:ILE:O	2.22	0.40
45:SA:184:PRO:O	45:SA:188:ILE:HG12	2.21	0.40
46:SB:248:SER:OG	46:SB:350:LYS:NZ	2.31	0.40
46:SB:256:ASN:HD22	46:SB:350:LYS:HD3	1.87	0.40
46:SB:325:GLU:OE2	46:SB:325:GLU:N	2.54	0.40
45:SC:2:ARG:HD2	45:SC:242:LEU:O	2.21	0.40
45:SE:23:LEU:O	45:SE:27:GLU:HG3	2.21	0.40
45:SG:164:LYS:HD3	45:SG:165:SER:N	2.31	0.40
46:SH:175:VAL:HG22	46:SH:205:GLU:HB2	2.02	0.40
46:SH:324:LYS:HA	45:SI:210:TYR:HE2	1.86	0.40
45:SI:30:ILE:HD13	45:SI:36:MET:SD	2.62	0.40
45:SI:101:ASN:HA	45:SI:144:GLY:H	1.87	0.40
45:SI:123:ARG:HD2	45:SI:123:ARG:HA	1.87	0.40
45:SI:352:LYS:HA	46:SJ:177:ASP:O	2.22	0.40
46:SJ:200:MET:HE1	46:SJ:268:ILE:HG23	2.02	0.40
46:SJ:394:PHE:HB3	46:SJ:397:TRP:HD1	1.86	0.40
46:SL:375:GLN:HG3	46:SL:422:TYR:HE2	1.87	0.40
45:SM:79:ARG:NH1	45:SM:79:ARG:HB2	2.35	0.40
45:SM:229:ARG:HH22	45:SM:366:GLY:HA3	1.87	0.40
45:SM:326:LYS:HE2	46:SN:220:PRO:HD2	2.03	0.40
47:SM:501:GTP:H8	47:SM:501:GTP:O1A	2.04	0.40
45:TA:124:LYS:HE2	45:TA:124:LYS:HB2	1.88	0.40
45:TC:420:GLU:HA	45:TC:423:GLU:CD	2.41	0.40
46:TD:91:VAL:HG21	46:TD:116:VAL:HB	2.03	0.40
46:TD:116:VAL:HA	46:TD:119:VAL:HG12	2.03	0.40
45:TE:32:PRO:HB3	45:TE:83:TYR:HE1	1.85	0.40
46:TF:45:GLU:HG2	46:TF:46:ARG:HG2	2.02	0.40
45:TG:2:ARG:O	45:TG:51:THR:HA	2.20	0.40
45:TG:164:LYS:HD3	45:TG:165:SER:H	1.86	0.40
46:TH:88:ASP:OD1	46:TH:89:ASN:N	2.55	0.40
46:TJ:21:TRP:CD1	46:TJ:85:PHE:HZ	2.39	0.40
46:TJ:201:VAL:HG22	46:TJ:266:PHE:O	2.21	0.40
45:TK:32:PRO:HB3	45:TK:83:TYR:HE1	1.86	0.40
46:TL:28:HIS:C	46:TL:43:GLN:HE21	2.24	0.40
46:TL:252:LYS:O	46:TL:256:ASN:ND2	2.55	0.40
46:TL:258:ILE:HG23	46:TL:263:LEU:O	2.22	0.40
45:UA:331:SER:O	45:UA:335:ILE:HG12	2.21	0.40
46:UB:97:ALA:HA	46:UB:103:LYS:HG2	2.03	0.40
46:UB:344:TRP:CE3	45:UC:401:LYS:HD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:UD:104:GLY:O	46:UD:146:GLY:HA3	2.21	0.40
45:UE:89:PRO:HD2	45:VC:280:LYS:CE	2.49	0.40
45:UE:256:GLN:CD	46:UF:397:TRP:HZ2	2.25	0.40
46:UF:143:THR:O	46:UF:147:MET:HE2	2.21	0.40
46:UF:233:MET:O	46:UF:236:VAL:HG12	2.21	0.40
46:UF:325:GLU:O	46:UF:328:GLU:HG3	2.21	0.40
46:UH:69:GLU:O	46:UH:73:MET:HE1	2.20	0.40
46:UH:101:TRP:HD1	46:UH:145:SER:OG	2.05	0.40
46:UH:156:ARG:NH1	46:UH:195:ASN:O	2.55	0.40
46:UL:122:LYS:O	46:UL:125:GLU:HG3	2.21	0.40
46:UN:274:THR:HB	46:UN:282:ARG:NH1	2.36	0.40
45:VA:2:ARG:HH12	46:VD:70:PRO:CD	2.35	0.40
46:VB:200:MET:HG2	46:VB:268:ILE:HG23	2.03	0.40
45:VC:222:PRO:HG2	46:VD:324:LYS:HE2	2.03	0.40
46:VD:69:GLU:HA	46:VD:70:PRO:HD3	1.96	0.40
46:VD:175:VAL:HG23	46:VD:205:GLU:HG3	2.04	0.40
45:VE:317:MET:SD	45:VE:317:MET:N	2.94	0.40
46:VF:289:LEU:HD11	46:VF:363:MET:SD	2.62	0.40
45:VG:143:GLY:HA3	47:VG:501:GTP:O2B	2.22	0.40
45:VG:422:ARG:NH1	45:VG:426:ALA:HB2	2.33	0.40
46:VJ:5:VAL:HG12	46:VJ:62:ARG:HD3	2.03	0.40
46:VJ:208:TYR:CE1	46:VJ:225:LEU:HD11	2.56	0.40
46:VJ:395:LEU:O	46:VJ:399:THR:HG23	2.21	0.40
45:VK:301:MET:HE1	45:VK:307:PRO:HD3	2.04	0.40
46:VL:210:ILE:HG13	46:VL:211:CYS:N	2.37	0.40
46:VN:208:TYR:CE2	46:VN:225:LEU:HD11	2.55	0.40
46:VN:288:GLU:O	46:VN:291:GLN:HG3	2.21	0.40
46:WB:188:SER:O	46:WB:192:LEU:HD23	2.21	0.40
46:WB:216:LYS:HB2	46:WB:275:SER:OG	2.22	0.40
46:WB:240:LEU:HD12	46:WB:249:ASP:HB2	2.03	0.40
45:WC:9:VAL:HG13	45:WC:139:ASN:HB3	2.04	0.40
45:WE:18:ASN:O	45:WE:22:GLU:HG2	2.22	0.40
46:WF:313:ALA:HB1	46:WF:367:PHE:HE1	1.86	0.40
45:WG:212:ILE:HD13	45:WG:215:ARG:HH11	1.86	0.40
45:WG:289:ALA:O	45:WG:292:THR:HG22	2.22	0.40
46:WH:39:ASP:OD2	46:WH:40:SER:N	2.54	0.40
45:WI:156:ARG:HA	45:WI:156:ARG:HD2	1.71	0.40
45:WI:164:LYS:HD3	45:WI:164:LYS:HA	1.85	0.40
45:WK:85:GLN:OE1	45:WK:85:GLN:N	2.54	0.40
45:WM:138:PHE:HE1	45:WM:169:PHE:CD2	2.40	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0A	148/236 (63%)	118 (80%)	25 (17%)	5 (3%)	3	24
1	1A	148/236 (63%)	118 (80%)	26 (18%)	4 (3%)	4	28
1	2A	148/236 (63%)	117 (79%)	26 (18%)	5 (3%)	3	24
1	3A	148/236 (63%)	121 (82%)	24 (16%)	3 (2%)	6	34
2	0B	317/329 (96%)	245 (77%)	64 (20%)	8 (2%)	4	30
3	0C	93/156 (60%)	72 (77%)	17 (18%)	4 (4%)	2	21
3	1C	93/156 (60%)	70 (75%)	19 (20%)	4 (4%)	2	21
4	0D	198/225 (88%)	150 (76%)	40 (20%)	8 (4%)	2	21
4	1D	198/225 (88%)	149 (75%)	40 (20%)	9 (4%)	2	20
4	2D	198/225 (88%)	145 (73%)	44 (22%)	9 (4%)	2	20
5	0E	187/191 (98%)	174 (93%)	10 (5%)	3 (2%)	8	39
5	1E	187/191 (98%)	169 (90%)	14 (8%)	4 (2%)	5	33
5	2E	187/191 (98%)	168 (90%)	17 (9%)	2 (1%)	12	46
5	3E	187/191 (98%)	175 (94%)	10 (5%)	2 (1%)	12	46
6	0F	202/219 (92%)	160 (79%)	37 (18%)	5 (2%)	4	30
7	0G	162/183 (88%)	123 (76%)	33 (20%)	6 (4%)	2	23
7	1G	129/183 (70%)	100 (78%)	25 (19%)	4 (3%)	3	26
8	0H	118/447 (26%)	107 (91%)	9 (8%)	2 (2%)	7	37
8	1H	423/447 (95%)	402 (95%)	19 (4%)	2 (0%)	25	62
9	0N	278/492 (56%)	265 (95%)	13 (5%)	0	100	100
9	1N	457/492 (93%)	444 (97%)	12 (3%)	1 (0%)	44	77
9	2N	278/492 (56%)	270 (97%)	8 (3%)	0	100	100
10	0Q	184/195 (94%)	171 (93%)	13 (7%)	0	100	100
10	1Q	184/195 (94%)	172 (94%)	12 (6%)	0	100	100
10	2Q	184/195 (94%)	166 (90%)	18 (10%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	3Q	184/195 (94%)	172 (94%)	12 (6%)	0	100	100
10	4Q	184/195 (94%)	167 (91%)	17 (9%)	0	100	100
10	5Q	184/195 (94%)	169 (92%)	15 (8%)	0	100	100
10	6Q	184/195 (94%)	166 (90%)	18 (10%)	0	100	100
11	0S	284/319 (89%)	258 (91%)	26 (9%)	0	100	100
11	1S	284/319 (89%)	258 (91%)	25 (9%)	1 (0%)	30	67
11	2S	284/319 (89%)	262 (92%)	20 (7%)	2 (1%)	19	56
11	3S	284/319 (89%)	263 (93%)	21 (7%)	0	100	100
12	0T	255/298 (86%)	241 (94%)	14 (6%)	0	100	100
12	1T	283/298 (95%)	257 (91%)	26 (9%)	0	100	100
12	2T	283/298 (95%)	263 (93%)	20 (7%)	0	100	100
12	3T	283/298 (95%)	261 (92%)	22 (8%)	0	100	100
13	0U	605/656 (92%)	550 (91%)	55 (9%)	0	100	100
13	1U	605/656 (92%)	550 (91%)	55 (9%)	0	100	100
13	2U	605/656 (92%)	553 (91%)	52 (9%)	0	100	100
13	3U	605/656 (92%)	551 (91%)	54 (9%)	0	100	100
14	0V	203/269 (76%)	176 (87%)	24 (12%)	3 (2%)	8	40
14	1V	259/269 (96%)	221 (85%)	30 (12%)	8 (3%)	3	26
14	2V	259/269 (96%)	215 (83%)	38 (15%)	6 (2%)	5	31
14	3V	259/269 (96%)	223 (86%)	30 (12%)	6 (2%)	5	31
15	0X	108/142 (76%)	104 (96%)	3 (3%)	1 (1%)	14	50
15	1X	139/142 (98%)	132 (95%)	6 (4%)	1 (1%)	19	56
15	2X	139/142 (98%)	133 (96%)	5 (4%)	1 (1%)	19	56
15	3X	139/142 (98%)	132 (95%)	6 (4%)	1 (1%)	19	56
15	4X	139/142 (98%)	131 (94%)	8 (6%)	0	100	100
16	1B	496/498 (100%)	469 (95%)	24 (5%)	3 (1%)	22	59
16	2B	293/498 (59%)	271 (92%)	21 (7%)	1 (0%)	37	71
16	3B	291/498 (58%)	267 (92%)	24 (8%)	0	100	100
17	1F	132/173 (76%)	114 (86%)	14 (11%)	4 (3%)	3	26
18	1I	182/263 (69%)	150 (82%)	30 (16%)	2 (1%)	12	46
19	1J	364/422 (86%)	307 (84%)	49 (14%)	8 (2%)	5	32

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
20	1K	275/489 (56%)	273 (99%)	1 (0%)	1 (0%)	30	67
20	2K	284/489 (58%)	282 (99%)	2 (1%)	0	100	100
21	1L	808/940 (86%)	708 (88%)	92 (11%)	8 (1%)	13	48
21	2L	604/940 (64%)	533 (88%)	65 (11%)	6 (1%)	13	48
21	3L	198/940 (21%)	170 (86%)	24 (12%)	4 (2%)	6	34
22	1M	367/372 (99%)	343 (94%)	22 (6%)	2 (0%)	25	62
22	2M	367/372 (99%)	351 (96%)	15 (4%)	1 (0%)	37	71
23	1O	235/494 (48%)	230 (98%)	5 (2%)	0	100	100
23	2O	366/494 (74%)	363 (99%)	2 (0%)	1 (0%)	37	71
23	3O	275/494 (56%)	273 (99%)	2 (1%)	0	100	100
24	1P	353/507 (70%)	348 (99%)	4 (1%)	1 (0%)	37	71
24	2P	188/507 (37%)	187 (100%)	1 (0%)	0	100	100
25	1R	502/516 (97%)	469 (93%)	32 (6%)	1 (0%)	44	77
25	2R	502/516 (97%)	475 (95%)	26 (5%)	1 (0%)	44	77
25	3R	502/516 (97%)	472 (94%)	29 (6%)	1 (0%)	44	77
26	1W	222/280 (79%)	218 (98%)	4 (2%)	0	100	100
26	2W	114/280 (41%)	106 (93%)	8 (7%)	0	100	100
27	2C	298/300 (99%)	279 (94%)	17 (6%)	2 (1%)	19	56
27	3C	298/300 (99%)	278 (93%)	17 (6%)	3 (1%)	13	48
27	4C	298/300 (99%)	280 (94%)	16 (5%)	2 (1%)	19	56
28	2F	83/96 (86%)	74 (89%)	9 (11%)	0	100	100
29	2G	97/99 (98%)	92 (95%)	5 (5%)	0	100	100
30	2H	59/229 (26%)	51 (86%)	7 (12%)	1 (2%)	7	37
30	3H	59/229 (26%)	52 (88%)	6 (10%)	1 (2%)	7	37
30	4H	59/229 (26%)	51 (86%)	7 (12%)	1 (2%)	7	37
31	2I	136/293 (46%)	113 (83%)	19 (14%)	4 (3%)	3	27
31	3I	83/293 (28%)	67 (81%)	14 (17%)	2 (2%)	5	30
32	3D	235/237 (99%)	224 (95%)	11 (5%)	0	100	100
33	4F	194/276 (70%)	163 (84%)	28 (14%)	3 (2%)	8	40
34	4R	607/613 (99%)	578 (95%)	29 (5%)	0	100	100
34	5R	607/613 (99%)	575 (95%)	32 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	6R	607/613 (99%)	576 (95%)	31 (5%)	0	100	100
34	7R	607/613 (99%)	581 (96%)	26 (4%)	0	100	100
35	4S	186/249 (75%)	181 (97%)	5 (3%)	0	100	100
35	5S	186/249 (75%)	178 (96%)	8 (4%)	0	100	100
36	5A	155/175 (89%)	126 (81%)	29 (19%)	0	100	100
36	5B	155/175 (89%)	121 (78%)	33 (21%)	1 (1%)	22	59
36	5C	155/175 (89%)	126 (81%)	28 (18%)	1 (1%)	22	59
36	5D	112/175 (64%)	92 (82%)	20 (18%)	0	100	100
37	5E	186/247 (75%)	153 (82%)	29 (16%)	4 (2%)	5	32
37	5F	208/247 (84%)	169 (81%)	33 (16%)	6 (3%)	3	27
37	5G	208/247 (84%)	170 (82%)	34 (16%)	4 (2%)	6	35
37	5H	144/247 (58%)	114 (79%)	28 (19%)	2 (1%)	9	40
39	6F	130/145 (90%)	111 (85%)	16 (12%)	3 (2%)	5	31
40	6G	210/364 (58%)	179 (85%)	29 (14%)	2 (1%)	13	48
41	6H	151/518 (29%)	120 (80%)	27 (18%)	4 (3%)	4	29
44	8R	178/361 (49%)	173 (97%)	4 (2%)	1 (1%)	22	59
45	AA	437/449 (97%)	427 (98%)	10 (2%)	0	100	100
45	AC	437/449 (97%)	425 (97%)	12 (3%)	0	100	100
45	AE	437/449 (97%)	424 (97%)	13 (3%)	0	100	100
45	AG	437/449 (97%)	421 (96%)	16 (4%)	0	100	100
45	AI	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	AK	437/449 (97%)	425 (97%)	12 (3%)	0	100	100
45	AM	437/449 (97%)	419 (96%)	18 (4%)	0	100	100
45	BA	428/449 (95%)	416 (97%)	12 (3%)	0	100	100
45	BC	428/449 (95%)	414 (97%)	14 (3%)	0	100	100
45	BE	428/449 (95%)	415 (97%)	13 (3%)	0	100	100
45	BG	428/449 (95%)	418 (98%)	10 (2%)	0	100	100
45	BI	428/449 (95%)	413 (96%)	15 (4%)	0	100	100
45	BK	428/449 (95%)	412 (96%)	16 (4%)	0	100	100
45	BM	428/449 (95%)	413 (96%)	15 (4%)	0	100	100
45	CA	437/449 (97%)	422 (97%)	15 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	CC	437/449 (97%)	427 (98%)	10 (2%)	0	100	100
45	CE	437/449 (97%)	427 (98%)	10 (2%)	0	100	100
45	CG	437/449 (97%)	421 (96%)	16 (4%)	0	100	100
45	CI	437/449 (97%)	426 (98%)	11 (2%)	0	100	100
45	CK	437/449 (97%)	419 (96%)	18 (4%)	0	100	100
45	CM	437/449 (97%)	423 (97%)	14 (3%)	0	100	100
45	DA	429/449 (96%)	417 (97%)	12 (3%)	0	100	100
45	DC	432/449 (96%)	419 (97%)	12 (3%)	1 (0%)	44	77
45	DE	429/449 (96%)	411 (96%)	18 (4%)	0	100	100
45	DG	432/449 (96%)	419 (97%)	12 (3%)	1 (0%)	44	77
45	DI	429/449 (96%)	414 (96%)	15 (4%)	0	100	100
45	DK	432/449 (96%)	423 (98%)	8 (2%)	1 (0%)	44	77
45	DM	429/449 (96%)	417 (97%)	12 (3%)	0	100	100
45	EA	437/449 (97%)	423 (97%)	14 (3%)	0	100	100
45	EC	437/449 (97%)	418 (96%)	19 (4%)	0	100	100
45	EE	437/449 (97%)	424 (97%)	12 (3%)	1 (0%)	44	77
45	EG	437/449 (97%)	429 (98%)	8 (2%)	0	100	100
45	EI	437/449 (97%)	421 (96%)	15 (3%)	1 (0%)	44	77
45	EK	437/449 (97%)	421 (96%)	16 (4%)	0	100	100
45	EM	437/449 (97%)	421 (96%)	15 (3%)	1 (0%)	44	77
45	FA	425/449 (95%)	415 (98%)	10 (2%)	0	100	100
45	FC	428/449 (95%)	414 (97%)	14 (3%)	0	100	100
45	FE	430/449 (96%)	416 (97%)	14 (3%)	0	100	100
45	FG	437/449 (97%)	423 (97%)	14 (3%)	0	100	100
45	FI	429/449 (96%)	418 (97%)	11 (3%)	0	100	100
45	FK	428/449 (95%)	417 (97%)	11 (3%)	0	100	100
45	FM	425/449 (95%)	413 (97%)	12 (3%)	0	100	100
45	GA	425/449 (95%)	413 (97%)	12 (3%)	0	100	100
45	GC	427/449 (95%)	416 (97%)	11 (3%)	0	100	100
45	GE	427/449 (95%)	410 (96%)	17 (4%)	0	100	100
45	GG	427/449 (95%)	410 (96%)	17 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	GI	427/449 (95%)	412 (96%)	15 (4%)	0	100	100
45	GK	437/449 (97%)	421 (96%)	16 (4%)	0	100	100
45	GM	425/449 (95%)	416 (98%)	9 (2%)	0	100	100
45	HA	427/449 (95%)	411 (96%)	16 (4%)	0	100	100
45	HC	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	HE	427/449 (95%)	417 (98%)	10 (2%)	0	100	100
45	HG	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	HI	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	HK	427/449 (95%)	417 (98%)	10 (2%)	0	100	100
45	HM	427/449 (95%)	418 (98%)	9 (2%)	0	100	100
45	IA	428/449 (95%)	409 (96%)	19 (4%)	0	100	100
45	IC	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	IE	428/449 (95%)	409 (96%)	19 (4%)	0	100	100
45	IG	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	II	437/449 (97%)	417 (95%)	20 (5%)	0	100	100
45	IK	428/449 (95%)	414 (97%)	14 (3%)	0	100	100
45	IM	428/449 (95%)	420 (98%)	8 (2%)	0	100	100
45	JA	428/449 (95%)	414 (97%)	14 (3%)	0	100	100
45	JC	430/449 (96%)	417 (97%)	13 (3%)	0	100	100
45	JE	437/449 (97%)	420 (96%)	17 (4%)	0	100	100
45	JG	437/449 (97%)	420 (96%)	16 (4%)	1 (0%)	44	77
45	JI	437/449 (97%)	411 (94%)	24 (6%)	2 (0%)	25	62
45	JK	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	JM	428/449 (95%)	418 (98%)	10 (2%)	0	100	100
45	KA	430/449 (96%)	416 (97%)	13 (3%)	1 (0%)	44	77
45	KC	429/449 (96%)	416 (97%)	13 (3%)	0	100	100
45	KE	431/449 (96%)	412 (96%)	19 (4%)	0	100	100
45	KG	437/449 (97%)	417 (95%)	19 (4%)	1 (0%)	44	77
45	KI	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	KK	437/449 (97%)	413 (94%)	24 (6%)	0	100	100
45	KM	430/449 (96%)	418 (97%)	11 (3%)	1 (0%)	44	77

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	LA	437/449 (97%)	421 (96%)	15 (3%)	1 (0%)	44	77
45	LC	437/449 (97%)	419 (96%)	18 (4%)	0	100	100
45	LE	434/449 (97%)	416 (96%)	18 (4%)	0	100	100
45	LG	437/449 (97%)	421 (96%)	16 (4%)	0	100	100
45	LI	430/449 (96%)	411 (96%)	19 (4%)	0	100	100
45	LK	437/449 (97%)	419 (96%)	18 (4%)	0	100	100
45	LM	437/449 (97%)	422 (97%)	14 (3%)	1 (0%)	44	77
45	MA	432/449 (96%)	413 (96%)	19 (4%)	0	100	100
45	MC	429/449 (96%)	412 (96%)	17 (4%)	0	100	100
45	ME	429/449 (96%)	414 (96%)	14 (3%)	1 (0%)	44	77
45	MG	433/449 (96%)	420 (97%)	13 (3%)	0	100	100
45	MI	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	MK	432/449 (96%)	417 (96%)	15 (4%)	0	100	100
45	MM	432/449 (96%)	418 (97%)	14 (3%)	0	100	100
45	NA	437/449 (97%)	422 (97%)	14 (3%)	1 (0%)	44	77
45	NC	428/449 (95%)	412 (96%)	16 (4%)	0	100	100
45	NE	437/449 (97%)	418 (96%)	18 (4%)	1 (0%)	44	77
45	NG	428/449 (95%)	410 (96%)	18 (4%)	0	100	100
45	NI	437/449 (97%)	422 (97%)	14 (3%)	1 (0%)	44	77
45	NK	428/449 (95%)	411 (96%)	17 (4%)	0	100	100
45	NM	437/449 (97%)	418 (96%)	18 (4%)	1 (0%)	44	77
45	OA	429/449 (96%)	413 (96%)	16 (4%)	0	100	100
45	OC	429/449 (96%)	418 (97%)	11 (3%)	0	100	100
45	OE	429/449 (96%)	419 (98%)	10 (2%)	0	100	100
45	OG	429/449 (96%)	420 (98%)	9 (2%)	0	100	100
45	OI	429/449 (96%)	418 (97%)	11 (3%)	0	100	100
45	OK	429/449 (96%)	412 (96%)	17 (4%)	0	100	100
45	OM	429/449 (96%)	417 (97%)	12 (3%)	0	100	100
45	PA	425/449 (95%)	411 (97%)	14 (3%)	0	100	100
45	PC	425/449 (95%)	411 (97%)	14 (3%)	0	100	100
45	PE	425/449 (95%)	407 (96%)	18 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	PG	425/449 (95%)	410 (96%)	15 (4%)	0	100	100
45	PI	425/449 (95%)	413 (97%)	12 (3%)	0	100	100
45	PK	425/449 (95%)	406 (96%)	19 (4%)	0	100	100
45	PM	425/449 (95%)	411 (97%)	14 (3%)	0	100	100
45	QA	427/449 (95%)	419 (98%)	8 (2%)	0	100	100
45	QC	427/449 (95%)	418 (98%)	9 (2%)	0	100	100
45	QE	427/449 (95%)	415 (97%)	12 (3%)	0	100	100
45	QG	427/449 (95%)	417 (98%)	10 (2%)	0	100	100
45	QI	427/449 (95%)	408 (96%)	19 (4%)	0	100	100
45	QK	427/449 (95%)	415 (97%)	12 (3%)	0	100	100
45	QM	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	RA	427/449 (95%)	420 (98%)	7 (2%)	0	100	100
45	RC	427/449 (95%)	419 (98%)	8 (2%)	0	100	100
45	RE	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	RG	427/449 (95%)	416 (97%)	11 (3%)	0	100	100
45	RI	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	RK	427/449 (95%)	411 (96%)	16 (4%)	0	100	100
45	RM	427/449 (95%)	418 (98%)	9 (2%)	0	100	100
45	SA	426/449 (95%)	419 (98%)	7 (2%)	0	100	100
45	SC	426/449 (95%)	410 (96%)	16 (4%)	0	100	100
45	SE	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	SG	426/449 (95%)	411 (96%)	15 (4%)	0	100	100
45	SI	426/449 (95%)	416 (98%)	10 (2%)	0	100	100
45	SK	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	SM	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	TA	426/449 (95%)	414 (97%)	12 (3%)	0	100	100
45	TC	426/449 (95%)	411 (96%)	15 (4%)	0	100	100
45	TE	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	TG	426/449 (95%)	414 (97%)	12 (3%)	0	100	100
45	TI	426/449 (95%)	420 (99%)	6 (1%)	0	100	100
45	TK	426/449 (95%)	412 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	TM	426/449 (95%)	412 (97%)	14 (3%)	0	100	100
45	UA	427/449 (95%)	418 (98%)	9 (2%)	0	100	100
45	UC	427/449 (95%)	415 (97%)	12 (3%)	0	100	100
45	UE	427/449 (95%)	412 (96%)	15 (4%)	0	100	100
45	UG	427/449 (95%)	416 (97%)	11 (3%)	0	100	100
45	UI	427/449 (95%)	413 (97%)	14 (3%)	0	100	100
45	UK	427/449 (95%)	412 (96%)	15 (4%)	0	100	100
45	UM	427/449 (95%)	416 (97%)	11 (3%)	0	100	100
45	VA	429/449 (96%)	415 (97%)	14 (3%)	0	100	100
45	VC	437/449 (97%)	427 (98%)	10 (2%)	0	100	100
45	VE	429/449 (96%)	416 (97%)	13 (3%)	0	100	100
45	VG	437/449 (97%)	417 (95%)	20 (5%)	0	100	100
45	VI	429/449 (96%)	421 (98%)	8 (2%)	0	100	100
45	VK	437/449 (97%)	422 (97%)	15 (3%)	0	100	100
45	VM	429/449 (96%)	420 (98%)	9 (2%)	0	100	100
45	WA	427/449 (95%)	415 (97%)	12 (3%)	0	100	100
45	WC	437/449 (97%)	421 (96%)	15 (3%)	1 (0%)	44	77
45	WE	427/449 (95%)	414 (97%)	13 (3%)	0	100	100
45	WG	437/449 (97%)	418 (96%)	18 (4%)	1 (0%)	44	77
45	WI	427/449 (95%)	417 (98%)	10 (2%)	0	100	100
45	WK	437/449 (97%)	419 (96%)	17 (4%)	1 (0%)	44	77
45	WM	427/449 (95%)	415 (97%)	12 (3%)	0	100	100
46	AB	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	AD	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	AF	428/443 (97%)	424 (99%)	4 (1%)	0	100	100
46	AH	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	AJ	428/443 (97%)	422 (99%)	6 (1%)	0	100	100
46	AL	428/443 (97%)	422 (99%)	6 (1%)	0	100	100
46	AN	428/443 (97%)	425 (99%)	3 (1%)	0	100	100
46	BB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	BD	428/443 (97%)	421 (98%)	7 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	BF	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	BH	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	BJ	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	BL	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	BN	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	CB	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	CD	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	CF	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
46	CH	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
46	CJ	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	CL	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	CN	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
46	DB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	DD	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	DF	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	DH	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	DJ	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	DL	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	DN	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	EB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	ED	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
46	EF	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	EH	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	EJ	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	EL	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	EN	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
46	FB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	FD	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	FF	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	FH	428/443 (97%)	411 (96%)	17 (4%)	0	100	100
46	FJ	428/443 (97%)	416 (97%)	12 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	FL	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	FN	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	GB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	GD	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	GF	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
46	GH	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	GJ	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	GL	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	GN	428/443 (97%)	422 (99%)	6 (1%)	0	100	100
46	HB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	HD	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	HF	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	HH	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	HJ	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	HL	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	HN	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	IB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	ID	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	IF	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	IH	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	IJ	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	IL	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	IN	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	JB	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	JD	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
46	JF	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	JH	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	JJ	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	JL	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	JN	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	KB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	KD	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	KF	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	KH	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	KJ	428/443 (97%)	410 (96%)	18 (4%)	0	100	100
46	KL	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	KN	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	LB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	LD	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	LF	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	LH	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	LJ	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
46	LL	428/443 (97%)	413 (96%)	15 (4%)	0	100	100
46	LN	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	MB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	MD	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	MF	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	MH	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	MJ	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	ML	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	MN	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	NB	419/443 (95%)	408 (97%)	11 (3%)	0	100	100
46	ND	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	NF	419/443 (95%)	407 (97%)	12 (3%)	0	100	100
46	NH	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	NJ	419/443 (95%)	405 (97%)	14 (3%)	0	100	100
46	NL	428/443 (97%)	412 (96%)	16 (4%)	0	100	100
46	NN	419/443 (95%)	407 (97%)	12 (3%)	0	100	100
46	OB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	OD	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	OF	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	OH	428/443 (97%)	416 (97%)	12 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	OJ	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	OL	428/443 (97%)	409 (96%)	19 (4%)	0	100	100
46	ON	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	PB	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	PD	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	PF	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	PH	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	PJ	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	PL	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	PN	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	QB	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	QD	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	QF	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	QH	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	QJ	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	QL	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	QN	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	RB	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	RD	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	RF	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	RH	428/443 (97%)	414 (97%)	14 (3%)	0	100	100
46	RJ	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	RL	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	RN	428/443 (97%)	424 (99%)	4 (1%)	0	100	100
46	SB	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	SD	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	SF	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	SH	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	SJ	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	SL	428/443 (97%)	415 (97%)	13 (3%)	0	100	100
46	SN	428/443 (97%)	421 (98%)	7 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
46	TB	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	TD	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	TF	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	TH	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	TJ	428/443 (97%)	422 (99%)	6 (1%)	0	100	100
46	TL	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	TN	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	UB	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	UD	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	UF	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	UH	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	UJ	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	UL	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	UN	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	VB	428/443 (97%)	416 (97%)	12 (3%)	0	100	100
46	VD	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	VF	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	VH	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
46	VJ	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	VL	428/443 (97%)	418 (98%)	10 (2%)	0	100	100
46	VN	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	WB	428/443 (97%)	425 (99%)	3 (1%)	0	100	100
46	WD	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	WF	428/443 (97%)	423 (99%)	5 (1%)	0	100	100
46	WH	428/443 (97%)	420 (98%)	8 (2%)	0	100	100
46	WJ	428/443 (97%)	421 (98%)	7 (2%)	0	100	100
46	WL	428/443 (97%)	419 (98%)	9 (2%)	0	100	100
46	WN	428/443 (97%)	417 (97%)	11 (3%)	0	100	100
All	All	164878/178239 (92%)	158526 (96%)	6118 (4%)	234 (0%)	50	82

All (234) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	0A	20	PRO
1	0A	90	GLN
2	0B	67	THR
2	0B	208	VAL
3	0C	45	PRO
3	0C	57	TYR
3	0C	84	THR
4	0D	39	PRO
4	0D	74	GLN
4	0D	85	VAL
4	0D	167	ILE
4	0D	191	PHE
4	0D	218	GLN
4	0D	220	ILE
5	0E	44	ASP
6	0F	8	PRO
6	0F	33	PRO
6	0F	86	ARG
7	0G	13	TYR
7	0G	22	PHE
7	0G	56	LEU
14	0V	46	PRO
14	0V	120	GLU
14	0V	125	MET
1	1A	20	PRO
1	1A	90	GLN
1	1A	131	ILE
16	1B	202	VAL
16	1B	315	SER
3	1C	45	PRO
3	1C	57	TYR
3	1C	84	THR
4	1D	39	PRO
4	1D	74	GLN
4	1D	85	VAL
4	1D	167	ILE
4	1D	218	GLN
4	1D	220	ILE
17	1F	30	PRO
17	1F	161	ILE
7	1G	56	LEU
8	1H	420	GLN
19	1J	221	ASP

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Mol	Chain	Res	Type
19	1J	332	ILE
20	1K	31	ARG
21	1L	116	LYS
21	1L	129	SER
21	1L	215	VAL
21	1L	368	PHE
22	1M	139	LYS
14	1V	46	PRO
14	1V	120	GLU
14	1V	152	PRO
14	1V	165	PRO
1	2A	20	PRO
1	2A	131	ILE
16	2B	202	VAL
27	2C	99	LEU
4	2D	39	PRO
4	2D	74	GLN
4	2D	85	VAL
4	2D	96	VAL
4	2D	167	ILE
4	2D	191	PHE
4	2D	218	GLN
4	2D	220	ILE
30	2H	207	LYS
31	2I	76	PRO
31	2I	78	PRO
21	2L	368	PHE
21	2L	802	ASP
22	2M	291	PHE
14	2V	46	PRO
14	2V	120	GLU
14	2V	152	PRO
14	2V	165	PRO
1	3A	20	PRO
31	3I	199	VAL
21	3L	116	LYS
21	3L	129	SER
21	3L	215	VAL
14	3V	46	PRO
14	3V	120	GLU
14	3V	152	PRO
14	3V	165	PRO

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Mol	Chain	Res	Type
33	4F	17	LYS
33	4F	70	VAL
37	5E	164	LYS
37	5F	164	LYS
37	5G	164	LYS
37	5H	119	GLU
39	6F	20	THR
39	6F	39	LYS
40	6G	122	TYR
41	6H	243	LYS
45	JI	42	ILE
45	KA	47	ASP
45	ME	37	PRO
2	0B	25	ASN
2	0B	247	ALA
4	0D	96	VAL
6	0F	72	ASP
8	0H	335	ALA
1	1A	88	VAL
4	1D	96	VAL
4	1D	191	PHE
5	1E	44	ASP
5	1E	156	ASP
17	1F	168	ARG
8	1H	335	ALA
21	1L	60	VAL
24	1P	223	ARG
11	1S	7	GLN
14	1V	88	LYS
14	1V	125	MET
1	2A	90	GLN
14	2V	125	MET
1	3A	88	VAL
5	3E	44	ASP
30	3H	207	LYS
21	3L	60	VAL
14	3V	125	MET
33	4F	28	VAL
30	4H	207	LYS
37	5E	119	GLU
37	5F	119	GLU
39	6F	124	ARG

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Mol	Chain	Res	Type
45	KG	47	ASP
45	KM	47	ASP
3	0C	92	GLN
3	1C	92	GLN
17	1F	158	ASN
19	1J	262	VAL
25	1R	43	PRO
14	1V	265	VAL
1	2A	88	VAL
5	2E	44	ASP
21	2L	795	ASN
23	2O	478	ASN
25	2R	43	PRO
14	2V	265	VAL
1	3A	90	GLN
31	3I	272	ARG
14	3V	265	VAL
27	4C	99	LEU
37	5F	108	LYS
40	6G	116	ILE
45	JG	38	SER
2	0B	44	ILE
5	0E	39	ARG
7	0G	53	ASN
7	0G	119	ILE
15	0X	31	ASP
16	1B	306	VAL
7	1G	53	ASN
7	1G	119	ILE
18	1I	38	ILE
19	1J	150	THR
21	1L	617	ARG
21	1L	802	ASP
9	1N	428	HIS
15	1X	31	ASP
11	2S	7	GLN
27	3C	99	LEU
15	3X	31	ASP
37	5F	50	GLU
37	5G	50	GLU
44	8R	204	ALA
45	EE	36	MET

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Mol	Chain	Res	Type
45	NA	42	ILE
45	NE	42	ILE
45	NI	42	ILE
45	NM	42	ILE
45	WG	42	ILE
45	DC	38	SER
1	0A	88	VAL
2	0B	35	LYS
2	0B	143	LYS
6	0F	185	GLU
5	1E	39	ARG
19	1J	223	PHE
22	1M	289	PRO
31	2I	199	VAL
31	2I	212	THR
11	2S	98	GLN
25	3R	43	PRO
36	5C	43	CYS
37	5E	65	GLU
37	5F	124	TYR
41	6H	170	TYR
41	6H	215	ASN
41	6H	248	LEU
45	DG	38	SER
45	DK	38	SER
45	EM	36	MET
45	JI	39	ASP
45	LA	41	THR
45	LM	41	THR
45	WC	42	ILE
45	WK	42	ILE
1	0A	122	GLN
5	0E	43	VAL
7	0G	68	LYS
8	0H	420	GLN
5	1E	43	VAL
18	1I	17	LYS
21	1L	795	ASN
1	2A	122	GLN
21	2L	617	ARG
15	2X	31	ASP
27	3C	44	TYR

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Mol	Chain	Res	Type
27	4C	140	GLN
36	5B	43	CYS
37	5G	33	TYR
19	1J	326	LYS
5	2E	43	VAL
45	EI	36	MET
1	0A	131	ILE
4	1D	163	ASP
5	3E	43	VAL
37	5G	35	LEU
14	1V	18	PRO
21	2L	579	VAL
37	5H	35	LEU
7	1G	85	ILE
19	1J	145	ILE
19	1J	224	PRO
4	2D	163	ASP
27	3C	95	ILE
37	5F	35	LEU
2	0B	88	ASP
27	2C	95	ILE
21	2L	370	PRO
37	5E	35	LEU

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0A	133/213 (62%)	132 (99%)	1 (1%)	79	84
1	1A	133/213 (62%)	132 (99%)	1 (1%)	79	84
1	2A	133/213 (62%)	131 (98%)	2 (2%)	60	75
1	3A	133/213 (62%)	132 (99%)	1 (1%)	79	84
2	0B	291/301 (97%)	290 (100%)	1 (0%)	91	92
3	0C	81/137 (59%)	81 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	1C	81/137 (59%)	81 (100%)	0	100	100
4	0D	175/197 (89%)	174 (99%)	1 (1%)	84	88
4	1D	175/197 (89%)	173 (99%)	2 (1%)	70	80
4	2D	175/197 (89%)	173 (99%)	2 (1%)	70	80
5	0E	172/175 (98%)	170 (99%)	2 (1%)	67	79
5	1E	172/175 (98%)	170 (99%)	2 (1%)	67	79
5	2E	172/175 (98%)	170 (99%)	2 (1%)	67	79
5	3E	172/175 (98%)	169 (98%)	3 (2%)	56	72
6	0F	182/194 (94%)	180 (99%)	2 (1%)	70	80
7	0G	153/167 (92%)	151 (99%)	2 (1%)	65	77
7	1G	125/167 (75%)	125 (100%)	0	100	100
8	0H	111/413 (27%)	110 (99%)	1 (1%)	75	83
8	1H	392/413 (95%)	385 (98%)	7 (2%)	54	71
9	0N	256/451 (57%)	256 (100%)	0	100	100
9	1N	423/451 (94%)	421 (100%)	2 (0%)	86	90
9	2N	256/451 (57%)	254 (99%)	2 (1%)	79	84
10	0Q	174/182 (96%)	172 (99%)	2 (1%)	70	80
10	1Q	174/182 (96%)	173 (99%)	1 (1%)	84	88
10	2Q	174/182 (96%)	174 (100%)	0	100	100
10	3Q	174/182 (96%)	173 (99%)	1 (1%)	84	88
10	4Q	174/182 (96%)	174 (100%)	0	100	100
10	5Q	174/182 (96%)	173 (99%)	1 (1%)	84	88
10	6Q	174/182 (96%)	173 (99%)	1 (1%)	84	88
11	0S	257/286 (90%)	256 (100%)	1 (0%)	89	91
11	1S	257/286 (90%)	255 (99%)	2 (1%)	79	84
11	2S	257/286 (90%)	256 (100%)	1 (0%)	89	91
11	3S	257/286 (90%)	257 (100%)	0	100	100
12	0T	229/264 (87%)	225 (98%)	4 (2%)	56	72
12	1T	251/264 (95%)	248 (99%)	3 (1%)	67	79
12	2T	251/264 (95%)	247 (98%)	4 (2%)	58	74
12	3T	251/264 (95%)	248 (99%)	3 (1%)	67	79

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	0U	528/571 (92%)	520 (98%)	8 (2%)	60	75
13	1U	528/571 (92%)	526 (100%)	2 (0%)	89	91
13	2U	528/571 (92%)	524 (99%)	4 (1%)	79	84
13	3U	528/571 (92%)	524 (99%)	4 (1%)	79	84
14	0V	196/249 (79%)	194 (99%)	2 (1%)	73	81
14	1V	244/249 (98%)	241 (99%)	3 (1%)	67	79
14	2V	244/249 (98%)	241 (99%)	3 (1%)	67	79
14	3V	244/249 (98%)	243 (100%)	1 (0%)	89	91
15	0X	98/129 (76%)	97 (99%)	1 (1%)	73	81
15	1X	128/129 (99%)	128 (100%)	0	100	100
15	2X	128/129 (99%)	126 (98%)	2 (2%)	58	74
15	3X	128/129 (99%)	128 (100%)	0	100	100
15	4X	128/129 (99%)	128 (100%)	0	100	100
16	1B	441/441 (100%)	439 (100%)	2 (0%)	86	90
16	2B	264/441 (60%)	263 (100%)	1 (0%)	89	91
16	3B	263/441 (60%)	262 (100%)	1 (0%)	89	91
17	1F	121/157 (77%)	119 (98%)	2 (2%)	56	72
18	1I	172/239 (72%)	171 (99%)	1 (1%)	84	88
19	1J	328/370 (89%)	328 (100%)	0	100	100
20	1K	263/463 (57%)	262 (100%)	1 (0%)	89	91
20	2K	275/463 (59%)	272 (99%)	3 (1%)	70	80
21	1L	771/878 (88%)	766 (99%)	5 (1%)	84	88
21	2L	576/878 (66%)	567 (98%)	9 (2%)	58	74
21	3L	191/878 (22%)	190 (100%)	1 (0%)	86	90
22	1M	323/325 (99%)	320 (99%)	3 (1%)	75	83
22	2M	323/325 (99%)	322 (100%)	1 (0%)	91	92
23	1O	228/458 (50%)	223 (98%)	5 (2%)	47	65
23	2O	346/458 (76%)	340 (98%)	6 (2%)	56	72
23	3O	258/458 (56%)	251 (97%)	7 (3%)	40	61
24	1P	328/471 (70%)	323 (98%)	5 (2%)	60	75
24	2P	173/471 (37%)	169 (98%)	4 (2%)	45	64

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
25	1R	466/475 (98%)	466 (100%)	0	100	100
25	2R	466/475 (98%)	465 (100%)	1 (0%)	92	94
25	3R	466/475 (98%)	465 (100%)	1 (0%)	92	94
26	1W	211/265 (80%)	211 (100%)	0	100	100
26	2W	109/265 (41%)	107 (98%)	2 (2%)	54	71
27	2C	271/271 (100%)	270 (100%)	1 (0%)	89	91
27	3C	271/271 (100%)	271 (100%)	0	100	100
27	4C	271/271 (100%)	270 (100%)	1 (0%)	89	91
28	2F	81/90 (90%)	81 (100%)	0	100	100
29	2G	91/91 (100%)	91 (100%)	0	100	100
30	2H	59/212 (28%)	59 (100%)	0	100	100
30	3H	59/212 (28%)	59 (100%)	0	100	100
30	4H	59/212 (28%)	59 (100%)	0	100	100
31	2I	124/259 (48%)	122 (98%)	2 (2%)	58	74
31	3I	80/259 (31%)	79 (99%)	1 (1%)	65	77
32	3D	195/195 (100%)	195 (100%)	0	100	100
33	4F	179/245 (73%)	178 (99%)	1 (1%)	84	88
34	4R	561/568 (99%)	561 (100%)	0	100	100
34	5R	561/568 (99%)	558 (100%)	3 (0%)	86	90
34	6R	561/568 (99%)	559 (100%)	2 (0%)	89	91
34	7R	561/568 (99%)	557 (99%)	4 (1%)	81	86
35	4S	169/222 (76%)	169 (100%)	0	100	100
35	5S	169/222 (76%)	166 (98%)	3 (2%)	54	71
36	5A	140/159 (88%)	139 (99%)	1 (1%)	81	86
36	5B	140/159 (88%)	138 (99%)	2 (1%)	62	76
36	5C	140/159 (88%)	139 (99%)	1 (1%)	81	86
36	5D	101/159 (64%)	97 (96%)	4 (4%)	27	50
37	5E	173/227 (76%)	170 (98%)	3 (2%)	56	72
37	5F	194/227 (86%)	194 (100%)	0	100	100
37	5G	194/227 (86%)	192 (99%)	2 (1%)	73	81
37	5H	132/227 (58%)	131 (99%)	1 (1%)	79	84

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	6F	128/141 (91%)	127 (99%)	1 (1%)	79	84
40	6G	194/329 (59%)	193 (100%)	1 (0%)	86	90
41	6H	150/474 (32%)	147 (98%)	3 (2%)	50	68
44	8R	31/31 (100%)	31 (100%)	0	100	100
45	AA	370/376 (98%)	370 (100%)	0	100	100
45	AC	370/376 (98%)	370 (100%)	0	100	100
45	AE	370/376 (98%)	370 (100%)	0	100	100
45	AG	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	AI	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	AK	370/376 (98%)	370 (100%)	0	100	100
45	AM	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	BA	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	BC	366/376 (97%)	364 (100%)	2 (0%)	86	90
45	BE	366/376 (97%)	366 (100%)	0	100	100
45	BG	366/376 (97%)	366 (100%)	0	100	100
45	BI	366/376 (97%)	366 (100%)	0	100	100
45	BK	366/376 (97%)	366 (100%)	0	100	100
45	BM	366/376 (97%)	364 (100%)	2 (0%)	86	90
45	CA	370/376 (98%)	370 (100%)	0	100	100
45	CC	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	CE	370/376 (98%)	370 (100%)	0	100	100
45	CG	370/376 (98%)	367 (99%)	3 (1%)	79	84
45	CI	370/376 (98%)	370 (100%)	0	100	100
45	CK	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	CM	370/376 (98%)	370 (100%)	0	100	100
45	DA	367/376 (98%)	367 (100%)	0	100	100
45	DC	368/376 (98%)	365 (99%)	3 (1%)	79	84
45	DE	367/376 (98%)	366 (100%)	1 (0%)	91	92
45	DG	368/376 (98%)	366 (100%)	2 (0%)	86	90
45	DI	367/376 (98%)	365 (100%)	2 (0%)	86	90
45	DK	368/376 (98%)	366 (100%)	2 (0%)	86	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	DM	367/376 (98%)	366 (100%)	1 (0%)	91	92
45	EA	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	EC	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	EE	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	EG	370/376 (98%)	370 (100%)	0	100	100
45	EI	370/376 (98%)	367 (99%)	3 (1%)	79	84
45	EK	370/376 (98%)	370 (100%)	0	100	100
45	EM	370/376 (98%)	368 (100%)	2 (0%)	86	90
45	FA	363/376 (96%)	363 (100%)	0	100	100
45	FC	366/376 (97%)	366 (100%)	0	100	100
45	FE	367/376 (98%)	367 (100%)	0	100	100
45	FG	370/376 (98%)	370 (100%)	0	100	100
45	FI	367/376 (98%)	366 (100%)	1 (0%)	91	92
45	FK	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	FM	363/376 (96%)	362 (100%)	1 (0%)	91	92
45	GA	363/376 (96%)	360 (99%)	3 (1%)	79	84
45	GC	365/376 (97%)	361 (99%)	4 (1%)	70	80
45	GE	365/376 (97%)	365 (100%)	0	100	100
45	GG	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	GI	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	GK	370/376 (98%)	370 (100%)	0	100	100
45	GM	363/376 (96%)	361 (99%)	2 (1%)	84	88
45	HA	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	HC	365/376 (97%)	365 (100%)	0	100	100
45	HE	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	HG	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	HI	365/376 (97%)	365 (100%)	0	100	100
45	HK	365/376 (97%)	364 (100%)	1 (0%)	91	92
45	HM	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	IA	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	IC	370/376 (98%)	369 (100%)	1 (0%)	91	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	IE	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	IG	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	II	370/376 (98%)	368 (100%)	2 (0%)	86	90
45	IK	366/376 (97%)	364 (100%)	2 (0%)	86	90
45	IM	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	JA	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	JC	367/376 (98%)	365 (100%)	2 (0%)	86	90
45	JE	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	JG	370/376 (98%)	370 (100%)	0	100	100
45	JI	369/376 (98%)	369 (100%)	0	100	100
45	JK	370/376 (98%)	368 (100%)	2 (0%)	86	90
45	JM	366/376 (97%)	366 (100%)	0	100	100
45	KA	367/376 (98%)	366 (100%)	1 (0%)	91	92
45	KC	367/376 (98%)	366 (100%)	1 (0%)	91	92
45	KE	368/376 (98%)	365 (99%)	3 (1%)	79	84
45	KG	370/376 (98%)	370 (100%)	0	100	100
45	KI	370/376 (98%)	365 (99%)	5 (1%)	62	76
45	KK	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	KM	367/376 (98%)	365 (100%)	2 (0%)	86	90
45	LA	370/376 (98%)	368 (100%)	2 (0%)	86	90
45	LC	370/376 (98%)	370 (100%)	0	100	100
45	LE	369/376 (98%)	367 (100%)	2 (0%)	86	90
45	LG	370/376 (98%)	370 (100%)	0	100	100
45	LI	368/376 (98%)	367 (100%)	1 (0%)	91	92
45	LK	370/376 (98%)	370 (100%)	0	100	100
45	LM	370/376 (98%)	367 (99%)	3 (1%)	79	84
45	MA	369/376 (98%)	367 (100%)	2 (0%)	86	90
45	MC	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	ME	367/376 (98%)	367 (100%)	0	100	100
45	MG	370/376 (98%)	370 (100%)	0	100	100
45	MI	370/376 (98%)	369 (100%)	1 (0%)	91	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	MK	367/376 (98%)	367 (100%)	0	100	100
45	MM	369/376 (98%)	366 (99%)	3 (1%)	79	84
45	NA	370/376 (98%)	367 (99%)	3 (1%)	79	84
45	NC	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	NE	370/376 (98%)	368 (100%)	2 (0%)	86	90
45	NG	366/376 (97%)	364 (100%)	2 (0%)	86	90
45	NI	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	NK	366/376 (97%)	364 (100%)	2 (0%)	86	90
45	NM	370/376 (98%)	370 (100%)	0	100	100
45	OA	366/376 (97%)	366 (100%)	0	100	100
45	OC	366/376 (97%)	366 (100%)	0	100	100
45	OE	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	OG	366/376 (97%)	366 (100%)	0	100	100
45	OI	366/376 (97%)	366 (100%)	0	100	100
45	OK	366/376 (97%)	365 (100%)	1 (0%)	91	92
45	OM	366/376 (97%)	366 (100%)	0	100	100
45	PA	363/376 (96%)	363 (100%)	0	100	100
45	PC	363/376 (96%)	363 (100%)	0	100	100
45	PE	363/376 (96%)	363 (100%)	0	100	100
45	PG	363/376 (96%)	360 (99%)	3 (1%)	79	84
45	PI	363/376 (96%)	362 (100%)	1 (0%)	91	92
45	PK	363/376 (96%)	363 (100%)	0	100	100
45	PM	363/376 (96%)	362 (100%)	1 (0%)	91	92
45	QA	365/376 (97%)	365 (100%)	0	100	100
45	QC	365/376 (97%)	362 (99%)	3 (1%)	79	84
45	QE	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	QG	365/376 (97%)	364 (100%)	1 (0%)	91	92
45	QI	365/376 (97%)	364 (100%)	1 (0%)	91	92
45	QK	365/376 (97%)	362 (99%)	3 (1%)	79	84
45	QM	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	RA	365/376 (97%)	364 (100%)	1 (0%)	91	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	RC	365/376 (97%)	362 (99%)	3 (1%)	79	84
45	RE	365/376 (97%)	364 (100%)	1 (0%)	91	92
45	RG	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	RI	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	RK	365/376 (97%)	361 (99%)	4 (1%)	70	80
45	RM	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	SA	364/376 (97%)	363 (100%)	1 (0%)	91	92
45	SC	364/376 (97%)	363 (100%)	1 (0%)	91	92
45	SE	364/376 (97%)	363 (100%)	1 (0%)	91	92
45	SG	364/376 (97%)	363 (100%)	1 (0%)	91	92
45	SI	364/376 (97%)	362 (100%)	2 (0%)	86	90
45	SK	364/376 (97%)	363 (100%)	1 (0%)	91	92
45	SM	364/376 (97%)	363 (100%)	1 (0%)	91	92
45	TA	364/376 (97%)	363 (100%)	1 (0%)	91	92
45	TC	364/376 (97%)	362 (100%)	2 (0%)	86	90
45	TE	364/376 (97%)	362 (100%)	2 (0%)	86	90
45	TG	364/376 (97%)	363 (100%)	1 (0%)	91	92
45	TI	364/376 (97%)	363 (100%)	1 (0%)	91	92
45	TK	364/376 (97%)	364 (100%)	0	100	100
45	TM	364/376 (97%)	362 (100%)	2 (0%)	86	90
45	UA	365/376 (97%)	364 (100%)	1 (0%)	91	92
45	UC	365/376 (97%)	364 (100%)	1 (0%)	91	92
45	UE	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	UG	365/376 (97%)	365 (100%)	0	100	100
45	UI	365/376 (97%)	364 (100%)	1 (0%)	91	92
45	UK	365/376 (97%)	365 (100%)	0	100	100
45	UM	365/376 (97%)	364 (100%)	1 (0%)	91	92
45	VA	367/376 (98%)	367 (100%)	0	100	100
45	VC	370/376 (98%)	369 (100%)	1 (0%)	91	92
45	VE	367/376 (98%)	367 (100%)	0	100	100
45	VG	370/376 (98%)	369 (100%)	1 (0%)	91	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	VI	367/376 (98%)	365 (100%)	2 (0%)	86	90
45	VK	370/376 (98%)	370 (100%)	0	100	100
45	VM	367/376 (98%)	366 (100%)	1 (0%)	91	92
45	WA	365/376 (97%)	362 (99%)	3 (1%)	79	84
45	WC	370/376 (98%)	367 (99%)	3 (1%)	79	84
45	WE	365/376 (97%)	365 (100%)	0	100	100
45	WG	370/376 (98%)	367 (99%)	3 (1%)	79	84
45	WI	365/376 (97%)	363 (100%)	2 (0%)	86	90
45	WK	370/376 (98%)	368 (100%)	2 (0%)	86	90
45	WM	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	AB	365/376 (97%)	365 (100%)	0	100	100
46	AD	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	AF	365/376 (97%)	365 (100%)	0	100	100
46	AH	365/376 (97%)	365 (100%)	0	100	100
46	AJ	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	AL	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	AN	365/376 (97%)	365 (100%)	0	100	100
46	BB	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	BD	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	BF	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	BH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	BJ	365/376 (97%)	365 (100%)	0	100	100
46	BL	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	BN	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	CB	365/376 (97%)	361 (99%)	4 (1%)	70	80
46	CD	365/376 (97%)	365 (100%)	0	100	100
46	CF	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	CH	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	CJ	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	CL	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	CN	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	DB	365/376 (97%)	365 (100%)	0	100	100
46	DD	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	DF	365/376 (97%)	365 (100%)	0	100	100
46	DH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	DJ	365/376 (97%)	365 (100%)	0	100	100
46	DL	365/376 (97%)	365 (100%)	0	100	100
46	DN	365/376 (97%)	365 (100%)	0	100	100
46	EB	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	ED	365/376 (97%)	365 (100%)	0	100	100
46	EF	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	EH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	EJ	365/376 (97%)	365 (100%)	0	100	100
46	EL	365/376 (97%)	365 (100%)	0	100	100
46	EN	365/376 (97%)	365 (100%)	0	100	100
46	FB	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	FD	365/376 (97%)	361 (99%)	4 (1%)	70	80
46	FF	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	FH	365/376 (97%)	365 (100%)	0	100	100
46	FJ	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	FL	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	FN	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	GB	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	GD	365/376 (97%)	365 (100%)	0	100	100
46	GF	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	GH	365/376 (97%)	365 (100%)	0	100	100
46	GJ	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	GL	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	GN	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	HB	365/376 (97%)	365 (100%)	0	100	100
46	HD	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	HF	365/376 (97%)	364 (100%)	1 (0%)	91	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	HH	365/376 (97%)	365 (100%)	0	100	100
46	HJ	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	HL	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	HN	365/376 (97%)	365 (100%)	0	100	100
46	IB	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	ID	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	IF	365/376 (97%)	365 (100%)	0	100	100
46	IH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	IJ	365/376 (97%)	361 (99%)	4 (1%)	70	80
46	IL	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	IN	365/376 (97%)	365 (100%)	0	100	100
46	JB	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	JD	365/376 (97%)	365 (100%)	0	100	100
46	JF	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	JH	365/376 (97%)	365 (100%)	0	100	100
46	JJ	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	JL	365/376 (97%)	365 (100%)	0	100	100
46	JN	365/376 (97%)	365 (100%)	0	100	100
46	KB	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	KD	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	KF	365/376 (97%)	365 (100%)	0	100	100
46	KH	365/376 (97%)	365 (100%)	0	100	100
46	KJ	365/376 (97%)	365 (100%)	0	100	100
46	KL	365/376 (97%)	365 (100%)	0	100	100
46	KN	365/376 (97%)	365 (100%)	0	100	100
46	LB	365/376 (97%)	365 (100%)	0	100	100
46	LD	365/376 (97%)	365 (100%)	0	100	100
46	LF	365/376 (97%)	365 (100%)	0	100	100
46	LH	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	LJ	365/376 (97%)	365 (100%)	0	100	100
46	LL	365/376 (97%)	364 (100%)	1 (0%)	91	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	LN	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	MB	365/376 (97%)	365 (100%)	0	100	100
46	MD	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	MF	365/376 (97%)	365 (100%)	0	100	100
46	MH	365/376 (97%)	365 (100%)	0	100	100
46	MJ	365/376 (97%)	365 (100%)	0	100	100
46	ML	365/376 (97%)	365 (100%)	0	100	100
46	MN	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	NB	359/376 (96%)	359 (100%)	0	100	100
46	ND	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	NF	359/376 (96%)	358 (100%)	1 (0%)	91	92
46	NH	365/376 (97%)	365 (100%)	0	100	100
46	NJ	359/376 (96%)	358 (100%)	1 (0%)	91	92
46	NL	365/376 (97%)	365 (100%)	0	100	100
46	NN	359/376 (96%)	358 (100%)	1 (0%)	91	92
46	OB	365/376 (97%)	365 (100%)	0	100	100
46	OD	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	OF	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	OH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	OJ	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	OL	365/376 (97%)	365 (100%)	0	100	100
46	ON	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	PB	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	PD	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	PF	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	PH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	PJ	365/376 (97%)	365 (100%)	0	100	100
46	PL	365/376 (97%)	365 (100%)	0	100	100
46	PN	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	QB	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	QD	365/376 (97%)	365 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	QF	365/376 (97%)	365 (100%)	0	100	100
46	QH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	QJ	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	QL	365/376 (97%)	365 (100%)	0	100	100
46	QN	365/376 (97%)	365 (100%)	0	100	100
46	RB	365/376 (97%)	365 (100%)	0	100	100
46	RD	365/376 (97%)	365 (100%)	0	100	100
46	RF	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	RH	365/376 (97%)	365 (100%)	0	100	100
46	RJ	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	RL	365/376 (97%)	365 (100%)	0	100	100
46	RN	365/376 (97%)	365 (100%)	0	100	100
46	SB	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	SD	365/376 (97%)	365 (100%)	0	100	100
46	SF	365/376 (97%)	365 (100%)	0	100	100
46	SH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	SJ	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	SL	365/376 (97%)	365 (100%)	0	100	100
46	SN	365/376 (97%)	365 (100%)	0	100	100
46	TB	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	TD	365/376 (97%)	361 (99%)	4 (1%)	70	80
46	TF	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	TH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	TJ	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	TL	365/376 (97%)	362 (99%)	3 (1%)	79	84
46	TN	365/376 (97%)	365 (100%)	0	100	100
46	UB	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	UD	365/376 (97%)	365 (100%)	0	100	100
46	UF	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	UH	365/376 (97%)	365 (100%)	0	100	100
46	UJ	365/376 (97%)	364 (100%)	1 (0%)	91	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	UL	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	UN	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	VB	365/376 (97%)	361 (99%)	4 (1%)	70	80
46	VD	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	VF	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	VH	365/376 (97%)	363 (100%)	2 (0%)	86	90
46	VJ	365/376 (97%)	365 (100%)	0	100	100
46	VL	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	VN	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	WB	365/376 (97%)	365 (100%)	0	100	100
46	WD	365/376 (97%)	365 (100%)	0	100	100
46	WF	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	WH	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	WJ	365/376 (97%)	364 (100%)	1 (0%)	91	92
46	WL	365/376 (97%)	365 (100%)	0	100	100
46	WN	365/376 (97%)	365 (100%)	0	100	100
All	All	142179/152289 (93%)	141673 (100%)	506 (0%)	88	91

All (506) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	0A	36	ARG
2	0B	150	ASN
4	0D	166	ARG
5	0E	42	LYS
5	0E	89	ARG
6	0F	106	ARG
6	0F	170	ARG
7	0G	84	HIS
7	0G	154	LYS
8	0H	401	ARG
10	0Q	100	ARG
10	0Q	124	ARG
11	0S	32	LYS
12	0T	133	LYS
12	0T	216	LYS

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Mol	Chain	Res	Type
12	0T	224	LYS
12	0T	259	ARG
13	0U	48	GLN
13	0U	65	LYS
13	0U	193	LYS
13	0U	274	GLN
13	0U	352	ARG
13	0U	387	ARG
13	0U	449	ARG
13	0U	526	ARG
14	0V	19	LYS
14	0V	24	ARG
15	0X	78	ASN
1	1A	147	ARG
16	1B	174	ASN
16	1B	327	LYS
4	1D	166	ARG
4	1D	212	ASN
5	1E	97	LYS
5	1E	106	LYS
17	1F	113	ASN
17	1F	168	ARG
8	1H	32	GLN
8	1H	76	LYS
8	1H	190	LYS
8	1H	260	ARG
8	1H	288	ARG
8	1H	291	ARG
8	1H	382	ARG
18	1I	120	HIS
20	1K	169	LYS
21	1L	123	LYS
21	1L	517	ARG
21	1L	643	ARG
21	1L	698	ARG
21	1L	707	LYS
22	1M	40	LYS
22	1M	47	LYS
22	1M	183	ARG
9	1N	39	LYS
9	1N	197	LYS
23	1O	70	LYS

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Mol	Chain	Res	Type
23	1O	158	LYS
23	1O	175	LYS
23	1O	215	LYS
23	1O	223	ARG
24	1P	89	ARG
24	1P	108	ARG
24	1P	208	LYS
24	1P	223	ARG
24	1P	293	LYS
10	1Q	100	ARG
11	1S	18	ARG
11	1S	118	ASN
12	1T	114	LYS
12	1T	199	ARG
12	1T	216	LYS
13	1U	75	LYS
13	1U	146	ARG
14	1V	158	LYS
14	1V	241	LYS
14	1V	257	LYS
1	2A	19	ARG
1	2A	147	ARG
16	2B	153	LYS
27	2C	130	ARG
4	2D	81	ARG
4	2D	135	LYS
5	2E	73	ARG
5	2E	89	ARG
31	2I	34	LYS
31	2I	132	ARG
20	2K	238	LYS
20	2K	254	LYS
20	2K	274	ASN
21	2L	282	LYS
21	2L	608	ASN
21	2L	626	ARG
21	2L	636	ARG
21	2L	698	ARG
21	2L	780	GLN
21	2L	805	LYS
21	2L	878	GLN
21	2L	933	LYS

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Mol	Chain	Res	Type
22	2M	72	LYS
9	2N	50	ARG
9	2N	167	ARG
23	2O	223	ARG
23	2O	288	LYS
23	2O	357	ARG
23	2O	437	LYS
23	2O	439	LYS
23	2O	450	LYS
24	2P	354	LYS
24	2P	431	ARG
24	2P	440	LYS
24	2P	491	LYS
25	2R	422	LYS
11	2S	76	GLN
12	2T	12	LYS
12	2T	117	ARG
12	2T	133	LYS
12	2T	216	LYS
13	2U	75	LYS
13	2U	449	ARG
13	2U	543	LYS
13	2U	567	LYS
14	2V	24	ARG
14	2V	137	ASN
14	2V	257	LYS
26	2W	203	LYS
26	2W	233	ASN
15	2X	96	ARG
15	2X	111	ARG
1	3A	19	ARG
16	3B	111	ARG
5	3E	73	ARG
5	3E	131	LYS
5	3E	162	LYS
31	3I	225	ASN
21	3L	88	LYS
23	3O	341	LYS
23	3O	357	ARG
23	3O	364	LYS
23	3O	374	ARG
23	3O	403	LYS

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Mol	Chain	Res	Type
23	3O	421	LYS
23	3O	470	LYS
10	3Q	23	GLN
25	3R	219	LYS
12	3T	114	LYS
12	3T	216	LYS
12	3T	243	LYS
13	3U	48	GLN
13	3U	75	LYS
13	3U	449	ARG
13	3U	567	LYS
14	3V	12	LYS
27	4C	109	LYS
33	4F	69	LYS
36	5A	54	ARG
36	5B	54	ARG
36	5B	110	ARG
36	5C	110	ARG
36	5D	30	LYS
36	5D	39	ARG
36	5D	87	ARG
36	5D	110	ARG
37	5E	67	ARG
37	5E	98	LYS
37	5E	164	LYS
37	5G	105	LYS
37	5G	209	ARG
37	5H	110	ARG
10	5Q	30	ARG
34	5R	212	GLN
34	5R	502	ARG
34	5R	524	LYS
35	5S	86	LYS
35	5S	153	LYS
35	5S	197	ARG
39	6F	137	MET
40	6G	93	LYS
41	6H	328	ASN
41	6H	364	ARG
41	6H	367	ARG
10	6Q	170	ARG
34	6R	69	LYS

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Mol	Chain	Res	Type
34	6R	483	LYS
34	7R	41	LYS
34	7R	379	LYS
34	7R	543	LYS
34	7R	574	ARG
46	AD	121	ARG
45	AG	2	ARG
45	AI	326	LYS
46	AJ	245	GLN
46	AL	298	ASN
45	AM	2	ARG
45	BA	2	ARG
46	BB	276	ARG
45	BC	2	ARG
45	BC	320	ARG
46	BD	347	ASN
46	BF	347	ASN
46	BH	347	ASN
46	BL	247	ASN
46	BL	347	ASN
45	BM	268	MET
45	BM	430	LYS
46	BN	298	ASN
46	BN	359	LYS
46	CB	213	ARG
46	CB	276	ARG
46	CB	347	ASN
46	CB	359	LYS
45	CC	2	ARG
46	CF	347	ASN
46	CF	359	LYS
45	CG	2	ARG
45	CG	128	ASN
45	CG	342	GLN
46	CH	73	MET
46	CH	414	ASN
46	CJ	347	ASN
46	CJ	379	LYS
45	CK	50	ASN
46	CL	320	ARG
46	DD	200	MET
45	DE	268	MET

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Mol	Chain	Res	Type
45	DG	2	ARG
45	DG	221	ARG
46	DH	73	MET
45	DI	133	GLN
45	DI	233	GLN
45	DK	233	GLN
45	DK	373	ARG
45	DM	326	LYS
45	EA	326	LYS
46	EB	298	ASN
46	EB	320	ARG
45	EC	380	ASN
45	EE	233	GLN
46	EF	306	ARG
46	EH	306	ARG
45	EI	31	GLN
45	EI	304	LYS
45	EI	326	LYS
45	EM	233	GLN
45	EM	308	ARG
46	FB	216	LYS
46	FB	241	ARG
46	FD	200	MET
46	FD	276	ARG
46	FD	321	MET
46	FD	359	LYS
46	FF	241	ARG
46	FF	276	ARG
45	FI	326	LYS
46	FJ	276	ARG
45	FK	11	GLN
46	FL	321	MET
45	FM	326	LYS
46	FN	390	ARG
45	GA	2	ARG
45	GA	243	ARG
45	GA	422	ARG
46	GB	276	ARG
46	GB	334	GLN
45	GC	2	ARG
45	GC	18	ASN
45	GC	309	HIS

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Mol	Chain	Res	Type
45	GC	370	LYS
46	GF	122	LYS
46	GF	347	ASN
45	GG	2	ARG
45	GG	123	ARG
45	GI	2	ARG
45	GI	339	ARG
46	GJ	276	ARG
46	GJ	347	ASN
46	GL	320	ARG
45	GM	268	MET
45	GM	326	LYS
46	GN	122	LYS
46	GN	216	LYS
45	HA	243	ARG
45	HA	390	ARG
46	HD	359	LYS
45	HE	128	ASN
45	HE	221	ARG
46	HF	347	ASN
45	HG	304	LYS
45	HG	390	ARG
46	HJ	279	GLN
46	HJ	359	LYS
45	HK	2	ARG
46	HL	347	ASN
45	HM	226	ASN
45	HM	326	LYS
45	IA	2	ARG
46	IB	227	HIS
45	IC	370	LYS
46	ID	48	ASN
45	IE	2	ARG
45	IG	370	LYS
46	IH	347	ASN
45	II	339	ARG
45	II	370	LYS
46	IJ	37	HIS
46	IJ	247	ASN
46	IJ	320	ARG
46	IJ	347	ASN
45	IK	268	MET

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Mol	Chain	Res	Type
45	IK	280	LYS
46	IL	291	GLN
46	IL	347	ASN
45	IM	326	LYS
45	JA	308	ARG
46	JB	414	ASN
45	JC	2	ARG
45	JC	300	ASN
45	JE	11	GLN
46	JF	86	ARG
46	JJ	11	GLN
46	JJ	77	ARG
45	JK	11	GLN
45	JK	215	ARG
45	KA	422	ARG
46	KB	380	ARG
45	KC	308	ARG
46	KD	309	ARG
45	KE	2	ARG
45	KE	221	ARG
45	KE	300	ASN
45	KI	128	ASN
45	KI	163	LYS
45	KI	221	ARG
45	KI	339	ARG
45	KI	372	MET
45	KK	300	ASN
45	KM	215	ARG
45	KM	326	LYS
45	LA	221	ARG
45	LA	326	LYS
45	LE	2	ARG
45	LE	326	LYS
46	LH	19	LYS
46	LH	298	ASN
45	LI	326	LYS
46	LL	298	ASN
45	LM	133	GLN
45	LM	163	LYS
45	LM	326	LYS
46	LN	247	ASN
45	MA	40	LYS

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Mol	Chain	Res	Type
45	MA	380	ASN
45	MC	221	ARG
46	MD	122	LYS
45	MI	280	LYS
45	MM	40	LYS
45	MM	233	GLN
45	MM	308	ARG
46	MN	347	ASN
45	NA	249	ASN
45	NA	285	GLN
45	NA	373	ARG
45	NC	373	ARG
46	ND	390	ARG
45	NE	2	ARG
45	NE	304	LYS
46	NF	347	ASN
45	NG	64	ARG
45	NG	390	ARG
45	NI	2	ARG
46	NJ	336	LYS
45	NK	214	ARG
45	NK	373	ARG
46	NN	306	ARG
46	OD	122	LYS
45	OE	15	GLN
46	OF	58	ARG
46	OF	306	ARG
46	OH	282	ARG
46	OJ	298	ASN
45	OK	430	LYS
46	ON	320	ARG
46	PB	347	ASN
46	PD	320	ARG
46	PD	347	ASN
46	PF	347	ASN
45	PG	133	GLN
45	PG	163	LYS
45	PG	370	LYS
46	PH	276	ARG
45	PI	2	ARG
45	PM	326	LYS
46	PN	380	ARG

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Mol	Chain	Res	Type
46	QB	347	ASN
45	QC	163	LYS
45	QC	233	GLN
45	QC	339	ARG
45	QE	233	GLN
45	QE	317	MET
45	QG	233	GLN
46	QH	414	ASN
45	QI	233	GLN
46	QJ	200	MET
46	QJ	347	ASN
45	QK	163	LYS
45	QK	233	GLN
45	QK	372	MET
45	QM	304	LYS
45	QM	326	LYS
45	RA	326	LYS
45	RC	233	GLN
45	RC	326	LYS
45	RC	402	ARG
45	RE	233	GLN
46	RF	350	LYS
45	RG	233	GLN
45	RG	339	ARG
45	RI	233	GLN
45	RI	326	LYS
46	RJ	227	HIS
45	RK	2	ARG
45	RK	233	GLN
45	RK	326	LYS
45	RK	370	LYS
45	RM	233	GLN
45	RM	326	LYS
45	SA	326	LYS
46	SB	121	ARG
46	SB	298	ASN
45	SC	326	LYS
45	SE	84	ARG
45	SG	326	LYS
46	SH	182	PRO
45	SI	2	ARG
45	SI	372	MET

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Mol	Chain	Res	Type
46	SJ	298	ASN
45	SK	2	ARG
45	SM	326	LYS
45	TA	326	LYS
46	TB	241	ARG
45	TC	84	ARG
45	TC	326	LYS
46	TD	122	LYS
46	TD	297	LYS
46	TD	320	ARG
46	TD	321	MET
45	TE	84	ARG
45	TE	402	ARG
46	TF	122	LYS
45	TG	2	ARG
46	TH	122	LYS
45	TI	326	LYS
46	TJ	122	LYS
46	TJ	276	ARG
46	TL	121	ARG
46	TL	137	HIS
46	TL	241	ARG
45	TM	2	ARG
45	TM	329	ASN
45	UA	221	ARG
46	UB	122	LYS
45	UC	370	LYS
45	UE	2	ARG
45	UE	112	LYS
46	UF	320	ARG
45	UI	2	ARG
46	UJ	103	LYS
46	UL	131	GLN
45	UM	2	ARG
46	UN	390	ARG
46	VB	267	MET
46	VB	297	LYS
46	VB	320	ARG
46	VB	380	ARG
45	VC	2	ARG
46	VD	162	ARG
46	VD	276	ARG

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Mol	Chain	Res	Type
46	VF	347	ASN
45	VG	2	ARG
46	VH	267	MET
46	VH	276	ARG
45	VI	128	ASN
45	VI	280	LYS
46	VL	58	ARG
45	VM	326	LYS
46	VN	321	MET
45	WA	2	ARG
45	WA	60	LYS
45	WA	133	GLN
45	WC	2	ARG
45	WC	163	LYS
45	WC	373	ARG
46	WF	276	ARG
45	WG	2	ARG
45	WG	40	LYS
45	WG	163	LYS
46	WH	324	LYS
45	WI	163	LYS
45	WI	329	ASN
46	WJ	414	ASN
45	WK	163	LYS
45	WK	221	ARG
45	WM	326	LYS
45	DC	18	ASN
45	DC	233	GLN
45	DC	339	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (763) such sidechains are listed below:

Mol	Chain	Res	Type
1	0A	3	GLN
1	0A	14	GLN
1	0A	91	ASN
2	0B	150	ASN
3	0C	70	HIS
3	0C	98	GLN
4	0D	79	GLN
5	0E	69	GLN
6	0F	61	ASN

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Mol	Chain	Res	Type
7	0G	21	ASN
7	0G	77	ASN
9	0N	231	GLN
9	0N	269	GLN
9	0N	270	ASN
11	0S	33	ASN
11	0S	235	GLN
11	0S	260	ASN
12	0T	232	HIS
13	0U	48	GLN
13	0U	292	HIS
13	0U	587	GLN
14	0V	64	HIS
14	0V	96	ASN
15	0X	41	GLN
1	1A	23	HIS
16	1B	19	HIS
16	1B	123	GLN
16	1B	341	GLN
3	1C	98	GLN
4	1D	95	GLN
4	1D	113	GLN
5	1E	95	GLN
17	1F	21	GLN
17	1F	113	ASN
8	1H	151	GLN
8	1H	227	GLN
8	1H	232	GLN
8	1H	233	GLN
18	1I	214	GLN
19	1J	175	HIS
19	1J	413	GLN
20	1K	223	ASN
21	1L	276	GLN
21	1L	594	GLN
23	1O	268	ASN
24	1P	144	GLN
24	1P	189	HIS
24	1P	225	GLN
24	1P	337	GLN
24	1P	377	GLN
10	1Q	4	ASN

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Mol	Chain	Res	Type
10	1Q	131	GLN
25	1R	516	GLN
11	1S	150	GLN
11	1S	266	ASN
13	1U	81	GLN
13	1U	547	HIS
14	1V	141	ASN
26	1W	237	HIS
26	1W	244	ASN
15	1X	78	ASN
1	2A	136	ASN
27	2C	219	GLN
4	2D	72	GLN
29	2G	42	ASN
31	2I	61	GLN
20	2K	291	GLN
20	2K	387	GLN
21	2L	305	GLN
21	2L	745	ASN
21	2L	750	ASN
21	2L	789	GLN
21	2L	878	GLN
9	2N	88	ASN
9	2N	224	GLN
9	2N	231	GLN
23	2O	130	GLN
23	2O	213	GLN
23	2O	367	GLN
23	2O	396	GLN
23	2O	404	GLN
23	2O	418	GLN
24	2P	394	GLN
24	2P	395	GLN
24	2P	423	GLN
24	2P	439	HIS
10	2Q	131	GLN
25	2R	312	GLN
25	2R	447	GLN
25	2R	473	GLN
11	2S	8	GLN
11	2S	24	GLN
11	2S	150	GLN

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Mol	Chain	Res	Type
12	2T	232	HIS
13	2U	316	ASN
13	2U	392	GLN
14	2V	137	ASN
14	2V	141	ASN
26	2W	215	HIS
26	2W	271	GLN
15	2X	97	GLN
1	3A	136	ASN
16	3B	12	ASN
16	3B	106	GLN
16	3B	123	GLN
16	3B	220	GLN
27	3C	49	GLN
27	3C	101	GLN
27	3C	123	HIS
5	3E	105	GLN
5	3E	153	ASN
10	3Q	4	ASN
10	3Q	131	GLN
25	3R	64	ASN
25	3R	215	ASN
25	3R	289	ASN
25	3R	447	GLN
11	3S	8	GLN
11	3S	10	ASN
11	3S	115	GLN
11	3S	161	GLN
11	3S	164	GLN
12	3T	234	ASN
13	3U	48	GLN
13	3U	351	ASN
13	3U	547	HIS
13	3U	587	GLN
14	3V	141	ASN
33	4F	152	GLN
30	4H	205	GLN
34	4R	128	HIS
35	4S	122	GLN
35	4S	208	GLN
15	4X	41	GLN
15	4X	89	ASN

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Mol	Chain	Res	Type
15	4X	97	GLN
36	5A	90	GLN
36	5B	149	ASN
36	5C	90	GLN
36	5C	142	GLN
36	5D	90	GLN
37	5F	13	ASN
10	5Q	4	ASN
34	5R	15	HIS
34	5R	106	ASN
34	5R	438	ASN
35	5S	81	HIS
39	6F	97	GLN
41	6H	326	HIS
34	6R	30	GLN
34	6R	43	ASN
34	6R	153	GLN
34	6R	272	ASN
34	7R	497	GLN
45	AA	11	GLN
45	AA	15	GLN
45	AA	258	ASN
46	AB	100	ASN
46	AB	245	GLN
46	AB	279	GLN
46	AB	375	GLN
46	AB	426	GLN
45	AC	28	HIS
45	AC	283	HIS
46	AD	256	ASN
45	AE	285	GLN
46	AF	6	HIS
46	AF	8	GLN
46	AF	37	HIS
46	AF	256	ASN
46	AF	279	GLN
46	AF	347	ASN
46	AF	426	GLN
45	AG	11	GLN
45	AG	133	GLN
46	AJ	245	GLN
46	AJ	414	ASN

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Mol	Chain	Res	Type
45	AM	11	GLN
45	AM	88	HIS
46	AN	8	GLN
46	AN	190	HIS
46	AN	245	GLN
46	AN	279	GLN
46	AN	414	ASN
45	BA	107	HIS
45	BA	258	ASN
46	BB	100	ASN
45	BC	15	GLN
45	BC	88	HIS
46	BD	37	HIS
46	BD	83	GLN
46	BD	247	ASN
45	BE	329	ASN
45	BG	300	ASN
46	BH	131	GLN
46	BH	134	GLN
45	BI	329	ASN
46	BJ	414	ASN
45	BK	8	HIS
45	BK	88	HIS
45	BK	91	GLN
46	BL	134	GLN
46	BL	190	HIS
46	BL	247	ASN
46	BL	279	GLN
45	BM	88	HIS
46	BN	8	GLN
46	CB	8	GLN
46	CB	190	HIS
46	CD	191	GLN
46	CD	347	ASN
46	CD	414	ASN
46	CF	8	GLN
46	CF	134	GLN
46	CF	191	GLN
46	CF	256	ASN
45	CG	101	ASN
46	CH	8	GLN
46	CH	43	GLN

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Mol	Chain	Res	Type
46	CH	134	GLN
46	CH	280	GLN
46	CH	384	GLN
45	CI	283	HIS
46	CJ	227	HIS
46	CJ	256	ASN
46	CJ	280	GLN
45	CK	133	GLN
45	CK	258	ASN
46	CL	99	ASN
46	CL	414	ASN
46	CN	100	ASN
45	DA	61	HIS
45	DA	258	ASN
46	DB	100	ASN
46	DB	190	HIS
46	DB	347	ASN
46	DD	8	GLN
46	DD	298	ASN
46	DD	414	ASN
45	DE	85	GLN
45	DE	258	ASN
46	DF	204	ASN
46	DH	37	HIS
46	DH	48	ASN
46	DJ	8	GLN
46	DJ	329	GLN
45	DK	258	ASN
46	DL	43	GLN
46	DL	94	GLN
46	DL	190	HIS
46	DL	191	GLN
46	DL	329	GLN
45	DM	206	ASN
45	DM	380	ASN
46	DN	100	ASN
46	EB	100	ASN
46	EB	334	GLN
46	EB	335	ASN
45	EC	50	ASN
46	ED	8	GLN
46	ED	15	GLN

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Mol	Chain	Res	Type
46	ED	245	GLN
45	EE	91	GLN
46	EF	15	GLN
46	EH	8	GLN
46	EH	14	ASN
46	EH	191	GLN
46	EH	292	GLN
46	EJ	6	HIS
46	EJ	8	GLN
46	EJ	134	GLN
45	EK	8	HIS
46	EL	15	GLN
46	EN	15	GLN
45	FA	15	GLN
45	FC	8	HIS
45	FC	11	GLN
45	FC	61	HIS
46	FD	94	GLN
45	FE	11	GLN
45	FE	102	ASN
45	FE	192	HIS
46	FF	190	HIS
46	FF	280	GLN
45	FG	11	GLN
45	FG	15	GLN
46	FH	280	GLN
46	FH	298	ASN
45	FI	256	GLN
45	FI	329	ASN
46	FJ	292	GLN
45	FK	342	GLN
46	FL	190	HIS
45	FM	88	HIS
46	FN	15	GLN
46	FN	134	GLN
46	FN	137	HIS
46	FN	191	GLN
45	GA	192	HIS
46	GB	100	ASN
46	GD	190	HIS
46	GD	332	ASN
46	GD	347	ASN

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Mol	Chain	Res	Type
46	GD	414	ASN
45	GE	15	GLN
45	GG	11	GLN
45	GG	91	GLN
45	GG	258	ASN
46	GH	190	HIS
46	GH	191	GLN
45	GI	11	GLN
45	GI	15	GLN
45	GI	31	GLN
45	GI	102	ASN
45	GI	285	GLN
46	GJ	6	HIS
45	GK	192	HIS
46	GL	347	ASN
46	GN	100	ASN
46	GN	375	GLN
46	HB	100	ASN
45	HE	91	GLN
45	HE	101	ASN
46	HF	190	HIS
46	HH	43	GLN
46	HH	100	ASN
46	HH	190	HIS
46	HH	256	ASN
45	HI	85	GLN
45	HI	329	ASN
46	HJ	190	HIS
46	HJ	414	ASN
45	HK	15	GLN
45	HK	91	GLN
45	HK	256	GLN
46	HL	8	GLN
46	HL	332	ASN
46	HL	414	ASN
45	HM	11	GLN
46	HN	99	ASN
46	HN	100	ASN
46	HN	291	GLN
46	HN	329	GLN
46	IB	100	ASN
46	IB	134	GLN

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Mol	Chain	Res	Type
46	IB	291	GLN
45	IC	342	GLN
46	ID	264	HIS
45	IE	101	ASN
45	IE	258	ASN
46	IH	6	HIS
46	IH	100	ASN
46	IH	329	GLN
45	II	50	ASN
46	IJ	6	HIS
46	IJ	8	GLN
46	IL	48	ASN
46	IL	414	ASN
45	IM	28	HIS
46	IN	8	GLN
46	IN	14	ASN
46	IN	134	GLN
46	JB	8	GLN
46	JB	190	HIS
46	JB	414	ASN
45	JC	101	ASN
46	JD	414	ASN
45	JE	31	GLN
45	JE	258	ASN
45	JG	88	HIS
45	JG	197	HIS
46	JH	6	HIS
46	JH	134	GLN
45	JI	88	HIS
46	JJ	134	GLN
45	JK	91	GLN
45	JK	101	ASN
45	JK	256	GLN
46	JL	227	HIS
46	JL	414	ASN
45	JM	8	HIS
46	JN	191	GLN
46	JN	329	GLN
46	JN	347	ASN
46	JN	414	ASN
45	KA	15	GLN
45	KA	61	HIS

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Mol	Chain	Res	Type
46	KB	6	HIS
46	KB	15	GLN
46	KB	426	GLN
46	KD	298	ASN
45	KE	35	GLN
45	KE	283	HIS
46	KF	332	ASN
46	KF	334	GLN
46	KF	347	ASN
45	KG	258	ASN
46	KH	6	HIS
46	KH	134	GLN
46	KH	298	ASN
45	KI	293	ASN
46	KJ	334	GLN
46	KJ	347	ASN
46	KJ	423	GLN
45	KK	50	ASN
45	KK	128	ASN
45	KK	226	ASN
45	KM	50	ASN
45	KM	309	HIS
46	KN	6	HIS
46	KN	334	GLN
45	LA	11	GLN
45	LA	283	HIS
46	LB	227	HIS
46	LB	334	GLN
45	LC	11	GLN
46	LD	279	GLN
46	LD	414	ASN
46	LD	423	GLN
45	LE	283	HIS
46	LF	247	ASN
46	LF	334	GLN
46	LH	279	GLN
46	LH	334	GLN
46	LJ	48	ASN
46	LJ	334	GLN
45	LK	11	GLN
45	LK	393	HIS
46	LL	190	HIS

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Mol	Chain	Res	Type
46	LL	414	ASN
46	LN	334	GLN
45	MA	249	ASN
46	MB	137	HIS
46	MB	191	GLN
46	MB	279	GLN
46	MB	423	GLN
46	MB	424	GLN
45	MC	258	ASN
46	MD	191	GLN
46	MD	414	ASN
45	ME	11	GLN
45	ME	91	GLN
46	MF	37	HIS
46	MF	99	ASN
45	MG	11	GLN
45	MG	31	GLN
45	MG	85	GLN
46	MJ	11	GLN
46	MJ	247	ASN
46	MJ	414	ASN
45	MK	11	GLN
45	MK	256	GLN
45	MK	258	ASN
46	ML	134	GLN
46	ML	190	HIS
46	ML	414	ASN
45	MM	101	ASN
46	MN	8	GLN
46	MN	11	GLN
46	MN	14	ASN
45	NA	192	HIS
46	NB	245	GLN
45	NC	91	GLN
46	ND	426	GLN
45	NE	283	HIS
46	NF	8	GLN
46	NF	291	GLN
46	NF	414	ASN
46	NH	307	HIS
45	NI	192	HIS
45	NI	342	GLN

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Mol	Chain	Res	Type
46	NJ	8	GLN
46	NJ	43	GLN
46	NJ	191	GLN
46	NJ	256	ASN
46	NJ	414	ASN
45	NK	8	HIS
45	NK	28	HIS
45	NK	91	GLN
46	NL	8	GLN
46	NL	134	GLN
46	NL	190	HIS
46	NL	245	GLN
46	NL	307	HIS
46	NL	424	GLN
45	NM	15	GLN
46	NN	8	GLN
46	NN	14	ASN
45	OA	15	GLN
46	OB	226	ASN
46	OB	256	ASN
46	OB	332	ASN
45	OC	285	GLN
45	OE	216	ASN
45	OE	285	GLN
45	OE	329	ASN
46	OF	8	GLN
46	OF	134	GLN
46	OF	227	HIS
46	OF	332	ASN
46	OF	347	ASN
45	OG	192	HIS
46	OH	131	GLN
46	OH	134	GLN
46	OH	279	GLN
45	OI	8	HIS
45	OI	88	HIS
46	OJ	14	ASN
46	OJ	37	HIS
46	OJ	89	ASN
46	OJ	134	GLN
46	OJ	227	HIS
46	OJ	245	GLN

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Mol	Chain	Res	Type
46	OJ	332	ASN
45	OK	15	GLN
46	OL	134	GLN
46	OL	247	ASN
46	OL	347	ASN
46	ON	6	HIS
46	ON	134	GLN
46	ON	227	HIS
46	ON	332	ASN
45	PA	15	GLN
46	PB	100	ASN
45	PC	15	GLN
45	PC	31	GLN
46	PD	8	GLN
46	PD	15	GLN
46	PD	100	ASN
46	PD	131	GLN
46	PD	191	GLN
46	PD	227	HIS
46	PD	256	ASN
45	PE	88	HIS
45	PE	133	GLN
46	PF	191	GLN
45	PG	128	ASN
46	PH	347	ASN
45	PI	258	ASN
46	PJ	190	HIS
45	PK	101	ASN
45	PK	256	GLN
46	PL	14	ASN
46	PL	89	ASN
46	PL	134	GLN
45	PM	233	GLN
46	PN	48	ASN
46	PN	131	GLN
46	PN	191	GLN
46	PN	384	GLN
46	PN	414	ASN
45	QA	128	ASN
45	QA	228	ASN
46	QB	15	GLN
46	QB	191	GLN

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Mol	Chain	Res	Type
46	QB	414	ASN
45	QC	15	GLN
46	QD	15	GLN
46	QD	292	GLN
46	QD	347	ASN
46	QD	414	ASN
45	QE	15	GLN
45	QE	88	HIS
45	QE	258	ASN
46	QF	99	ASN
46	QF	292	GLN
46	QF	329	GLN
46	QF	375	GLN
45	QG	15	GLN
46	QH	11	GLN
46	QH	134	GLN
45	QI	11	GLN
45	QI	101	ASN
46	QJ	99	ASN
45	QK	31	GLN
45	QK	88	HIS
45	QK	258	ASN
46	QL	8	GLN
46	QL	11	GLN
46	QL	134	GLN
46	QL	347	ASN
46	QL	414	ASN
45	QM	15	GLN
45	QM	258	ASN
46	QN	100	ASN
45	RA	258	ASN
46	RB	100	ASN
46	RB	191	GLN
45	RC	15	GLN
46	RD	11	GLN
45	RE	8	HIS
45	RE	11	GLN
45	RE	15	GLN
46	RF	11	GLN
46	RF	15	GLN
46	RF	226	ASN
46	RF	375	GLN

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Mol	Chain	Res	Type
45	RG	8	HIS
45	RG	15	GLN
46	RH	6	HIS
46	RH	8	GLN
46	RH	15	GLN
46	RH	190	HIS
45	RI	11	GLN
45	RI	31	GLN
46	RJ	8	GLN
46	RJ	11	GLN
46	RJ	15	GLN
46	RJ	347	ASN
45	RK	8	HIS
45	RK	15	GLN
45	RK	329	ASN
46	RL	6	HIS
46	RL	15	GLN
45	RM	8	HIS
45	RM	283	HIS
46	RN	100	ASN
46	SB	8	GLN
46	SB	14	ASN
46	SB	43	GLN
46	SB	134	GLN
45	SC	28	HIS
45	SC	91	GLN
46	SD	6	HIS
46	SD	8	GLN
46	SD	190	HIS
45	SE	11	GLN
45	SE	15	GLN
46	SF	298	ASN
45	SG	11	GLN
45	SG	15	GLN
45	SG	101	ASN
45	SG	192	HIS
45	SG	256	GLN
46	SH	6	HIS
46	SJ	11	GLN
45	SK	18	ASN
45	SK	258	ASN
46	SL	6	HIS

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Mol	Chain	Res	Type
46	SL	43	GLN
46	SL	195	ASN
46	SL	347	ASN
46	SL	375	GLN
46	TB	100	ASN
46	TB	137	HIS
45	TC	28	HIS
45	TC	31	GLN
45	TC	88	HIS
45	TC	133	GLN
45	TC	258	ASN
46	TD	256	ASN
46	TF	256	ASN
46	TF	396	HIS
45	TG	11	GLN
45	TG	15	GLN
45	TG	283	HIS
46	TH	8	GLN
46	TH	43	GLN
46	TH	100	ASN
45	TI	11	GLN
45	TI	15	GLN
45	TI	88	HIS
45	TI	101	ASN
45	TI	283	HIS
45	TK	11	GLN
45	TK	283	HIS
46	TL	8	GLN
46	TL	256	ASN
46	TL	280	GLN
45	TM	11	GLN
45	TM	192	HIS
45	TM	380	ASN
46	TN	100	ASN
46	UB	131	GLN
46	UB	134	GLN
46	UB	245	GLN
46	UB	334	GLN
46	UB	375	GLN
45	UC	15	GLN
46	UD	396	HIS
46	UF	131	GLN

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Mol	Chain	Res	Type
46	UF	190	HIS
45	UG	258	ASN
45	UG	283	HIS
46	UJ	256	ASN
45	UK	85	GLN
45	UK	91	GLN
45	UK	101	ASN
45	UK	285	GLN
45	UM	176	GLN
45	UM	233	GLN
45	UM	283	HIS
46	UN	8	GLN
46	UN	37	HIS
46	UN	134	GLN
46	UN	227	HIS
46	UN	414	ASN
45	VA	88	HIS
45	VA	233	GLN
46	VB	11	GLN
46	VB	14	ASN
46	VB	131	GLN
46	VB	245	GLN
46	VB	332	ASN
45	VC	31	GLN
45	VC	258	ASN
45	VE	88	HIS
45	VE	91	GLN
45	VE	101	ASN
45	VE	206	ASN
46	VF	100	ASN
46	VF	256	ASN
45	VG	31	GLN
45	VG	293	ASN
46	VH	99	ASN
46	VJ	14	ASN
46	VJ	134	GLN
46	VL	14	ASN
46	VL	99	ASN
46	VL	134	GLN
45	VM	11	GLN
45	VM	226	ASN
45	VM	406	HIS

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Mol	Chain	Res	Type
46	VN	8	GLN
46	VN	83	GLN
46	VN	131	GLN
46	VN	134	GLN
46	VN	414	ASN
45	WA	258	ASN
45	WA	285	GLN
46	WB	83	GLN
46	WB	100	ASN
46	WB	190	HIS
46	WB	191	GLN
46	WB	347	ASN
46	WB	414	ASN
45	WC	133	GLN
45	WC	283	HIS
45	WC	329	ASN
46	WD	329	GLN
46	WD	347	ASN
46	WD	375	GLN
45	WE	197	HIS
46	WF	48	ASN
46	WF	191	GLN
45	WG	128	ASN
46	WH	190	HIS
46	WH	414	ASN
45	WI	31	GLN
45	WI	101	ASN
46	WJ	94	GLN
46	WJ	99	ASN
46	WJ	134	GLN
46	WJ	191	GLN
45	WK	101	ASN
46	WL	99	ASN
46	WL	227	HIS
46	WL	375	GLN
46	WL	384	GLN
46	WN	8	GLN
46	WN	100	ASN
45	DC	258	ASN
45	DC	283	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 483 ligands modelled in this entry, 161 are monoatomic - leaving 322 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
47	GTP	WI	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.29	3 (8%)
49	GDP	AB	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.13	3 (10%)
47	GTP	QG	501	48	29,34,34	1.30	3 (10%)	35,54,54	1.32	5 (14%)
47	GTP	VK	501	48	29,34,34	1.25	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	IB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	FB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	MK	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	IJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.04	1 (3%)
49	GDP	RL	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.04	2 (6%)
49	GDP	NN	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	IM	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.30	3 (8%)
49	GDP	NJ	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
49	GDP	ID	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.10	2 (6%)
47	GTP	KG	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.25	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
49	GDP	CF	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.05	1 (3%)
49	GDP	LH	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
49	GDP	BL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.06	2 (6%)
47	GTP	LG	501	48	29,34,34	1.25	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	RI	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
49	GDP	ED	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	RD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.06	2 (6%)
49	GDP	RN	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	IA	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	RC	501	48	29,34,34	1.26	2 (6%)	35,54,54	1.31	4 (11%)
49	GDP	UL	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.04	2 (6%)
49	GDP	JL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	ME	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.31	4 (11%)
49	GDP	MB	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.12	3 (10%)
47	GTP	DG	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
49	GDP	DB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.05	2 (6%)
49	GDP	KH	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.10	3 (10%)
49	GDP	DD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	AM	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.31	4 (11%)
47	GTP	EI	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.28	4 (11%)
49	GDP	OD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	1 (3%)
49	GDP	WH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.06	3 (10%)
49	GDP	WN	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.06	2 (6%)
47	GTP	CA	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
49	GDP	FN	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.07	2 (6%)
47	GTP	JG	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.25	4 (11%)
49	GDP	RF	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	QA	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
49	GDP	JF	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.06	2 (6%)
49	GDP	FJ	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.09	2 (6%)
49	GDP	WB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.10	2 (6%)
49	GDP	BH	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.15	4 (13%)
49	GDP	SJ	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.15	4 (13%)
47	GTP	GK	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.28	4 (11%)
47	GTP	PK	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.34	5 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
47	GTP	VA	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.28	3 (8%)
47	GTP	SA	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.25	4 (11%)
47	GTP	VE	501	48	29,34,34	1.26	2 (6%)	35,54,54	1.31	4 (11%)
49	GDP	VF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.04	2 (6%)
49	GDP	PD	502	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	UH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.04	2 (6%)
49	GDP	VN	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.04	1 (3%)
49	GDP	TF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.04	2 (6%)
49	GDP	VH	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	UI	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.30	4 (11%)
49	GDP	FF	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.04	1 (3%)
49	GDP	MH	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	2 (6%)
49	GDP	DN	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.05	2 (6%)
49	GDP	LN	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	TG	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
49	GDP	IL	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	LC	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.32	4 (11%)
47	GTP	PI	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.27	3 (8%)
49	GDP	BN	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	2 (6%)
47	GTP	RK	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.32	4 (11%)
49	GDP	OH	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.06	2 (6%)
47	GTP	TK	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	HJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.04	1 (3%)
47	GTP	FC	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	CB	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.03	2 (6%)
47	GTP	MM	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.32	4 (11%)
47	GTP	QI	501	48	29,34,34	1.25	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	MA	501	48	29,34,34	1.19	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	BE	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.32	4 (11%)
47	GTP	OM	501	48	29,34,34	1.28	3 (10%)	35,54,54	1.26	4 (11%)
47	GTP	UE	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	QD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
49	GDP	TH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.04	2 (6%)
47	GTP	SE	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	WC	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
49	GDP	QF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	BG	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.30	4 (11%)
47	GTP	CC	501	48	29,34,34	1.24	3 (10%)	35,54,54	1.34	3 (8%)
47	GTP	MI	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.30	4 (11%)
47	GTP	GI	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.28	3 (8%)
49	GDP	PH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	WK	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.29	3 (8%)
47	GTP	VI	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.27	3 (8%)
49	GDP	BB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	BI	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.30	4 (11%)
49	GDP	GB	502	-	25,30,30	1.00	1 (4%)	30,47,47	1.05	2 (6%)
49	GDP	WD	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
49	GDP	SH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.14	3 (10%)
49	GDP	HN	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.03	2 (6%)
49	GDP	EH	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.11	3 (10%)
49	GDP	LD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
49	GDP	NF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	3 (10%)
49	GDP	EF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	AN	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.11	2 (6%)
47	GTP	BK	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.30	4 (11%)
49	GDP	PN	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.10	2 (6%)
47	GTP	TE	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.30	4 (11%)
49	GDP	AF	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	HK	501	48	29,34,34	1.17	2 (6%)	35,54,54	1.29	3 (8%)
47	GTP	CK	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.28	4 (11%)
47	GTP	VG	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	UB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	NG	501	48	29,34,34	1.26	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	PA	501	48	29,34,34	1.24	3 (10%)	35,54,54	1.27	4 (11%)
49	GDP	KJ	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.14	2 (6%)
47	GTP	AE	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	KI	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	DM	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.26	4 (11%)
47	GTP	VC	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.37	3 (8%)
47	GTP	BA	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.29	3 (8%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
47	GTP	UC	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	PJ	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.08	2 (6%)
49	GDP	JJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	2 (6%)
49	GDP	FL	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.03	2 (6%)
49	GDP	KD	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	3 (10%)
47	GTP	DK	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.31	4 (11%)
49	GDP	AD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.11	2 (6%)
47	GTP	PM	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.28	3 (8%)
47	GTP	EK	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.28	4 (11%)
47	GTP	OI	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.30	3 (8%)
47	GTP	IE	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.31	4 (11%)
49	GDP	DF	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.11	2 (6%)
49	GDP	VJ	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.04	1 (3%)
47	GTP	EM	501	48	29,34,34	1.25	3 (10%)	35,54,54	1.25	3 (8%)
49	GDP	JB	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.05	1 (3%)
47	GTP	HI	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.31	4 (11%)
47	GTP	GG	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	DL	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	CN	501	-	25,30,30	1.00	1 (4%)	30,47,47	1.05	2 (6%)
49	GDP	GJ	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.06	2 (6%)
47	GTP	UA	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
47	GTP	OG	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	BM	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.28	4 (11%)
49	GDP	GN	502	-	25,30,30	0.95	1 (4%)	30,47,47	1.02	2 (6%)
49	GDP	WL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	UK	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	SC	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.30	4 (11%)
47	GTP	EA	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.25	4 (11%)
47	GTP	FK	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.24	3 (8%)
49	GDP	GL	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	KC	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
49	GDP	TJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	TA	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
47	GTP	LK	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.31	4 (11%)
49	GDP	HB	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.05	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
49	GDP	BJ	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	HC	501	48	29,34,34	1.18	2 (6%)	35,54,54	1.30	3 (8%)
47	GTP	AK	501	48	29,34,34	1.26	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	HA	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.28	4 (11%)
47	GTP	KE	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	FG	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	PD	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.25	3 (8%)
47	GTP	HM	501	48	29,34,34	1.25	3 (10%)	35,54,54	1.25	4 (11%)
49	GDP	VD	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	DE	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
49	GDP	MJ	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.15	4 (13%)
47	GTP	IC	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
49	GDP	RH	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	UJ	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.04	2 (6%)
47	GTP	KA	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.25	4 (11%)
49	GDP	DH	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	SI	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
49	GDP	BD	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.06	1 (3%)
49	GDP	IN	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.18	3 (10%)
47	GTP	AI	501	48	29,34,34	1.19	2 (6%)	35,54,54	1.32	4 (11%)
49	GDP	AH	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.06	2 (6%)
47	GTP	DI	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.29	3 (8%)
47	GTP	VM	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.26	4 (11%)
47	GTP	RA	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.26	4 (11%)
49	GDP	IF	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.09	2 (6%)
49	GDP	EL	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.04	1 (3%)
49	GDP	HH	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.04	2 (6%)
47	GTP	QM	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.25	3 (8%)
49	GDP	KN	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.06	2 (6%)
49	GDP	SD	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.13	3 (10%)
47	GTP	KK	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.32	4 (11%)
47	GTP	DA	501	-	29,34,34	1.26	3 (10%)	35,54,54	1.26	4 (11%)
47	GTP	LI	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.28	4 (11%)
47	GTP	SG	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.28	4 (11%)
47	GTP	EE	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
47	GTP	AG	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.30	4 (11%)
49	GDP	OJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.04	2 (6%)
47	GTP	JI	501	48	29,34,34	1.17	2 (6%)	35,54,54	1.27	3 (8%)
49	GDP	FD	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	3 (10%)
47	GTP	SM	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	CI	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.30	5 (14%)
47	GTP	PG	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.28	3 (8%)
47	GTP	JC	501	48	29,34,34	1.26	3 (10%)	35,54,54	1.30	4 (11%)
49	GDP	GF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.04	2 (6%)
49	GDP	FH	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.04	2 (6%)
47	GTP	SK	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	OL	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.03	2 (6%)
49	GDP	NB	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
47	GTP	IG	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.30	5 (14%)
49	GDP	CL	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	2 (6%)
49	GDP	TL	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
49	GDP	KB	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.03	2 (6%)
47	GTP	TI	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.25	4 (11%)
49	GDP	JH	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.07	2 (6%)
47	GTP	BC	502	48	29,34,34	1.21	2 (6%)	35,54,54	1.28	4 (11%)
49	GDP	WF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.10	2 (6%)
47	GTP	HG	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.32	4 (11%)
49	GDP	ND	502	-	25,30,30	0.97	1 (4%)	30,47,47	1.10	2 (6%)
49	GDP	HF	501	-	25,30,30	0.92	1 (4%)	30,47,47	1.05	2 (6%)
49	GDP	ON	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
47	GTP	UM	501	48	29,34,34	1.25	3 (10%)	35,54,54	1.31	4 (11%)
47	GTP	CG	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.33	3 (8%)
49	GDP	VL	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.03	2 (6%)
47	GTP	QE	501	48	29,34,34	1.27	2 (6%)	35,54,54	1.31	3 (8%)
49	GDP	ML	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.14	3 (10%)
47	GTP	FI	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.30	4 (11%)
47	GTP	EC	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	CM	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.27	4 (11%)
49	GDP	PB	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.05	2 (6%)
49	GDP	TB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.08	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
49	GDP	AJ	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.24	5 (16%)
47	GTP	OF	501	48	29,34,34	1.25	2 (6%)	35,54,54	1.32	4 (11%)
47	GTP	JE	501	48	29,34,34	1.19	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	EN	501	-	25,30,30	1.00	2 (8%)	30,47,47	1.09	2 (6%)
47	GTP	MG	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.28	4 (11%)
49	GDP	RB	501	-	25,30,30	1.02	1 (4%)	30,47,47	1.09	2 (6%)
49	GDP	GH	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
47	GTP	CE	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.28	3 (8%)
47	GTP	NI	501	48	29,34,34	1.26	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	MC	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
49	GDP	JN	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
47	GTP	TM	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.25	3 (8%)
49	GDP	OB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.04	1 (3%)
49	GDP	LL	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
49	GDP	EJ	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.08	2 (6%)
47	GTP	JM	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.28	4 (11%)
49	GDP	JD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.11	2 (6%)
49	GDP	OF	502	-	25,30,30	0.96	1 (4%)	30,47,47	1.04	2 (6%)
49	GDP	KL	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.07	2 (6%)
47	GTP	OK	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.31	3 (8%)
49	GDP	KF	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.14	3 (10%)
49	GDP	QH	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	LF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	3 (10%)
49	GDP	QN	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	GM	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.25	4 (11%)
47	GTP	QK	501	48	29,34,34	1.26	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	TN	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.04	2 (6%)
49	GDP	GD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.02	2 (6%)
49	GDP	RJ	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.07	1 (3%)
47	GTP	WM	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.27	3 (8%)
47	GTP	UG	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.24	4 (11%)
47	GTP	TC	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.27	3 (8%)
47	GTP	IK	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	OA	501	48	29,34,34	1.27	2 (6%)	35,54,54	1.31	4 (11%)
49	GDP	HL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.06	2 (6%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
49	GDP	CJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.03	2 (6%)
49	GDP	QL	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	BF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	SN	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.05	2 (6%)
47	GTP	NC	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	NK	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.28	4 (11%)
49	GDP	WJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	1 (3%)
47	GTP	JA	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.25	3 (8%)
47	GTP	WE	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.31	3 (8%)
49	GDP	CD	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	RG	501	48	29,34,34	1.25	2 (6%)	35,54,54	1.31	4 (11%)
47	GTP	LE	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.31	4 (11%)
49	GDP	MN	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	QJ	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.11	2 (6%)
49	GDP	NL	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	AA	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	FM	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.24	4 (11%)
49	GDP	UF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.02	2 (6%)
49	GDP	UD	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
47	GTP	GA	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.28	4 (11%)
49	GDP	LB	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.05	2 (6%)
49	GDP	QB	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.06	2 (6%)
49	GDP	UN	501	-	25,30,30	0.97	1 (4%)	30,47,47	1.05	2 (6%)
49	GDP	DJ	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	SF	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.18	3 (10%)
49	GDP	SB	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.14	2 (6%)
47	GTP	HE	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.33	4 (11%)
47	GTP	RE	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.29	4 (11%)
49	GDP	MD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.12	2 (6%)
47	GTP	WG	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
47	GTP	LM	501	48	29,34,34	1.19	2 (6%)	35,54,54	1.25	4 (11%)
47	GTP	NE	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
49	GDP	NH	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.09	2 (6%)
49	GDP	AL	501	-	25,30,30	0.93	1 (4%)	30,47,47	1.02	2 (6%)
47	GTP	OC	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.35	5 (14%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
47	GTP	DC	501	48	29,34,34	1.25	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	QC	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.29	4 (11%)
47	GTP	AC	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.30	4 (11%)
49	GDP	TD	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.06	2 (6%)
49	GDP	PF	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.07	2 (6%)
49	GDP	PL	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.09	2 (6%)
47	GTP	FA	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.31	4 (11%)
47	GTP	FE	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.28	4 (11%)
47	GTP	GE	501	48	29,34,34	1.19	2 (6%)	35,54,54	1.31	4 (11%)
49	GDP	CH	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.12	2 (6%)
47	GTP	NM	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	EG	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.27	4 (11%)
49	GDP	LJ	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.14	3 (10%)
47	GTP	II	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.26	4 (11%)
47	GTP	LA	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.26	4 (11%)
49	GDP	VB	501	-	25,30,30	0.99	1 (4%)	30,47,47	1.04	2 (6%)
49	GDP	SL	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.12	2 (6%)
49	GDP	IH	501	-	25,30,30	0.94	1 (4%)	30,47,47	1.10	1 (3%)
47	GTP	GC	501	48	29,34,34	1.20	2 (6%)	35,54,54	1.30	4 (11%)
47	GTP	RM	501	48	29,34,34	1.21	2 (6%)	35,54,54	1.27	3 (8%)
49	GDP	HD	501	-	25,30,30	0.96	1 (4%)	30,47,47	1.12	3 (10%)
47	GTP	KM	501	48	29,34,34	1.22	2 (6%)	35,54,54	1.28	4 (11%)
47	GTP	WA	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.29	3 (8%)
47	GTP	JK	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.29	3 (8%)
49	GDP	EB	501	-	25,30,30	0.98	1 (4%)	30,47,47	1.06	2 (6%)
49	GDP	MF	501	-	25,30,30	0.95	1 (4%)	30,47,47	1.08	2 (6%)
47	GTP	NA	501	48	29,34,34	1.24	2 (6%)	35,54,54	1.27	4 (11%)
47	GTP	PE	501	48	29,34,34	1.23	2 (6%)	35,54,54	1.29	3 (8%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	WI	501	48	-	7/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
49	GDP	AB	501	-	-	2/12/32/32	0/3/3/3
47	GTP	QG	501	48	-	5/18/38/38	0/3/3/3
47	GTP	VK	501	48	-	9/18/38/38	0/3/3/3
49	GDP	IB	501	-	-	1/12/32/32	0/3/3/3
49	GDP	FB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	MK	501	48	-	7/18/38/38	0/3/3/3
49	GDP	IJ	501	-	-	0/12/32/32	0/3/3/3
49	GDP	RL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	NN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	IM	501	48	-	8/18/38/38	0/3/3/3
49	GDP	NJ	501	-	-	1/12/32/32	0/3/3/3
49	GDP	ID	501	-	-	1/12/32/32	0/3/3/3
47	GTP	KG	501	48	-	7/18/38/38	0/3/3/3
49	GDP	CF	501	-	-	0/12/32/32	0/3/3/3
49	GDP	LH	501	-	-	3/12/32/32	0/3/3/3
49	GDP	BL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	LG	501	48	-	5/18/38/38	0/3/3/3
47	GTP	RI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	ED	501	-	-	0/12/32/32	0/3/3/3
49	GDP	RD	501	-	-	0/12/32/32	0/3/3/3
49	GDP	RN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	IA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	RC	501	48	-	8/18/38/38	0/3/3/3
49	GDP	UL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	JL	501	-	-	1/12/32/32	0/3/3/3
47	GTP	ME	501	48	-	8/18/38/38	0/3/3/3
49	GDP	MB	501	-	-	3/12/32/32	0/3/3/3
47	GTP	DG	501	48	-	7/18/38/38	0/3/3/3
49	GDP	DB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	KH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	DD	501	-	-	1/12/32/32	0/3/3/3
47	GTP	AM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	EI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	OD	501	-	-	0/12/32/32	0/3/3/3
49	GDP	WH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	WN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	CA	501	48	-	9/18/38/38	0/3/3/3
49	GDP	FN	501	-	-	1/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	JG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	RF	501	-	-	2/12/32/32	0/3/3/3
47	GTP	QA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	JF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	FJ	501	-	-	3/12/32/32	0/3/3/3
49	GDP	WB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	BH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	SJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	GK	501	48	-	8/18/38/38	0/3/3/3
47	GTP	PK	501	48	-	6/18/38/38	0/3/3/3
47	GTP	VA	501	48	-	7/18/38/38	0/3/3/3
47	GTP	SA	501	48	-	7/18/38/38	0/3/3/3
47	GTP	VE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	VF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	PD	502	-	-	0/12/32/32	0/3/3/3
49	GDP	UH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	VN	501	-	-	1/12/32/32	0/3/3/3
49	GDP	TF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	VH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	UI	501	48	-	8/18/38/38	0/3/3/3
49	GDP	FF	501	-	-	0/12/32/32	0/3/3/3
49	GDP	MH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	DN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	LN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	TG	501	48	-	7/18/38/38	0/3/3/3
49	GDP	IL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	LC	501	48	-	5/18/38/38	0/3/3/3
47	GTP	PI	501	48	-	6/18/38/38	0/3/3/3
49	GDP	BN	501	-	-	3/12/32/32	0/3/3/3
47	GTP	RK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	OH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	TK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	HJ	501	-	-	1/12/32/32	0/3/3/3
47	GTP	FC	501	48	-	8/18/38/38	0/3/3/3
49	GDP	CB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	MM	501	48	-	6/18/38/38	0/3/3/3
47	GTP	QI	501	48	-	8/18/38/38	0/3/3/3
47	GTP	MA	501	48	-	9/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	BE	501	48	-	9/18/38/38	0/3/3/3
47	GTP	OM	501	48	-	4/18/38/38	0/3/3/3
47	GTP	UE	501	48	-	8/18/38/38	0/3/3/3
49	GDP	QD	501	-	-	0/12/32/32	0/3/3/3
49	GDP	TH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	SE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	WC	501	48	-	7/18/38/38	0/3/3/3
49	GDP	QF	501	-	-	0/12/32/32	0/3/3/3
47	GTP	BG	501	48	-	9/18/38/38	0/3/3/3
47	GTP	CC	501	48	-	5/18/38/38	0/3/3/3
47	GTP	MI	501	48	-	7/18/38/38	0/3/3/3
47	GTP	GI	501	48	-	9/18/38/38	0/3/3/3
49	GDP	PH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	WK	501	48	-	8/18/38/38	0/3/3/3
47	GTP	VI	501	48	-	8/18/38/38	0/3/3/3
49	GDP	BB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	BI	501	48	-	8/18/38/38	0/3/3/3
49	GDP	GB	502	-	-	0/12/32/32	0/3/3/3
49	GDP	WD	501	-	-	0/12/32/32	0/3/3/3
49	GDP	SH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	HN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	EH	501	-	-	1/12/32/32	0/3/3/3
49	GDP	LD	501	-	-	3/12/32/32	0/3/3/3
49	GDP	NF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	EF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	AN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	BK	501	48	-	9/18/38/38	0/3/3/3
49	GDP	PN	502	-	-	0/12/32/32	0/3/3/3
47	GTP	TE	501	48	-	8/18/38/38	0/3/3/3
49	GDP	AF	501	-	-	1/12/32/32	0/3/3/3
47	GTP	HK	501	48	-	8/18/38/38	0/3/3/3
47	GTP	CK	501	48	-	7/18/38/38	0/3/3/3
47	GTP	VG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	UB	501	-	-	1/12/32/32	0/3/3/3
47	GTP	NG	501	48	-	7/18/38/38	0/3/3/3
47	GTP	PA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	KJ	501	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	AE	501	48	-	9/18/38/38	0/3/3/3
47	GTP	KI	501	48	-	7/18/38/38	0/3/3/3
47	GTP	DM	501	48	-	7/18/38/38	0/3/3/3
47	GTP	VC	501	48	-	9/18/38/38	0/3/3/3
47	GTP	BA	501	48	-	7/18/38/38	0/3/3/3
47	GTP	UC	501	48	-	6/18/38/38	0/3/3/3
49	GDP	PJ	501	-	-	0/12/32/32	0/3/3/3
49	GDP	JJ	501	-	-	1/12/32/32	0/3/3/3
49	GDP	FL	502	-	-	1/12/32/32	0/3/3/3
49	GDP	KD	501	-	-	0/12/32/32	0/3/3/3
47	GTP	DK	501	48	-	7/18/38/38	0/3/3/3
49	GDP	AD	501	-	-	0/12/32/32	0/3/3/3
47	GTP	PM	501	48	-	7/18/38/38	0/3/3/3
47	GTP	EK	501	48	-	7/18/38/38	0/3/3/3
47	GTP	OI	501	48	-	5/18/38/38	0/3/3/3
47	GTP	IE	501	48	-	8/18/38/38	0/3/3/3
49	GDP	DF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	VJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	EM	501	48	-	9/18/38/38	0/3/3/3
49	GDP	JB	501	-	-	1/12/32/32	0/3/3/3
47	GTP	HI	501	48	-	9/18/38/38	0/3/3/3
47	GTP	GG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	DL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	CN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	GJ	501	-	-	1/12/32/32	0/3/3/3
47	GTP	UA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	OG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	BM	501	48	-	7/18/38/38	0/3/3/3
49	GDP	GN	502	-	-	0/12/32/32	0/3/3/3
49	GDP	WL	501	-	-	1/12/32/32	0/3/3/3
47	GTP	UK	501	48	-	7/18/38/38	0/3/3/3
47	GTP	SC	501	48	-	7/18/38/38	0/3/3/3
47	GTP	EA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	FK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	GL	502	-	-	1/12/32/32	0/3/3/3
47	GTP	KC	501	48	-	6/18/38/38	0/3/3/3
49	GDP	TJ	501	-	-	2/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	TA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	LK	501	48	-	9/18/38/38	0/3/3/3
49	GDP	HB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	BJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	HC	501	48	-	7/18/38/38	0/3/3/3
47	GTP	AK	501	48	-	7/18/38/38	0/3/3/3
47	GTP	HA	501	48	-	7/18/38/38	0/3/3/3
47	GTP	KE	501	48	-	6/18/38/38	0/3/3/3
47	GTP	FG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	PD	501	48	-	9/18/38/38	0/3/3/3
47	GTP	HM	501	48	-	8/18/38/38	0/3/3/3
49	GDP	VD	501	-	-	1/12/32/32	0/3/3/3
47	GTP	DE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	MJ	501	-	-	1/12/32/32	0/3/3/3
47	GTP	IC	501	48	-	9/18/38/38	0/3/3/3
49	GDP	RH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	UJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	KA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	DH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	SI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	BD	501	-	-	1/12/32/32	0/3/3/3
49	GDP	IN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	AI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	AH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	DI	501	48	-	8/18/38/38	0/3/3/3
47	GTP	VM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	RA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	IF	501	-	-	0/12/32/32	0/3/3/3
49	GDP	EL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	HH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	QM	501	48	-	8/18/38/38	0/3/3/3
49	GDP	KN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	SD	501	-	-	2/12/32/32	0/3/3/3
47	GTP	KK	501	48	-	6/18/38/38	0/3/3/3
47	GTP	DA	501	-	-	8/18/38/38	0/3/3/3
47	GTP	LI	501	48	-	8/18/38/38	0/3/3/3
47	GTP	SG	501	48	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	EE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	AG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	OJ	501	-	-	0/12/32/32	0/3/3/3
47	GTP	JI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	FD	501	-	-	1/12/32/32	0/3/3/3
47	GTP	SM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	CI	501	48	-	4/18/38/38	0/3/3/3
47	GTP	PG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	JC	501	48	-	5/18/38/38	0/3/3/3
49	GDP	GF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	FH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	SK	501	48	-	8/18/38/38	0/3/3/3
49	GDP	OL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	NB	501	-	-	1/12/32/32	0/3/3/3
47	GTP	IG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	CL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	TL	501	-	-	3/12/32/32	0/3/3/3
49	GDP	KB	501	-	-	0/12/32/32	0/3/3/3
47	GTP	TI	501	48	-	7/18/38/38	0/3/3/3
49	GDP	JH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	BC	502	48	-	9/18/38/38	0/3/3/3
49	GDP	WF	501	-	-	0/12/32/32	0/3/3/3
47	GTP	HG	501	48	-	9/18/38/38	0/3/3/3
49	GDP	ND	502	-	-	1/12/32/32	0/3/3/3
49	GDP	HF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	ON	501	-	-	0/12/32/32	0/3/3/3
47	GTP	UM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	CG	501	48	-	8/18/38/38	0/3/3/3
49	GDP	VL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	QE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	ML	501	-	-	1/12/32/32	0/3/3/3
47	GTP	FI	501	48	-	8/18/38/38	0/3/3/3
47	GTP	EC	501	48	-	7/18/38/38	0/3/3/3
47	GTP	CM	501	48	-	7/18/38/38	0/3/3/3
49	GDP	PB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	TB	501	-	-	1/12/32/32	0/3/3/3
49	GDP	AJ	501	-	-	1/12/32/32	0/3/3/3
47	GTP	OF	501	48	-	6/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	JE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	EN	501	-	-	1/12/32/32	0/3/3/3
47	GTP	MG	501	48	-	7/18/38/38	0/3/3/3
49	GDP	RB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	GH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	CE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	NI	501	48	-	5/18/38/38	0/3/3/3
47	GTP	MC	501	48	-	8/18/38/38	0/3/3/3
49	GDP	JN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	TM	501	48	-	8/18/38/38	0/3/3/3
49	GDP	OB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	LL	501	-	-	3/12/32/32	0/3/3/3
49	GDP	EJ	501	-	-	1/12/32/32	0/3/3/3
47	GTP	JM	501	48	-	8/18/38/38	0/3/3/3
49	GDP	JD	501	-	-	2/12/32/32	0/3/3/3
49	GDP	OF	502	-	-	0/12/32/32	0/3/3/3
49	GDP	KL	501	-	-	1/12/32/32	0/3/3/3
47	GTP	OK	501	48	-	5/18/38/38	0/3/3/3
49	GDP	KF	501	-	-	0/12/32/32	0/3/3/3
49	GDP	QH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	LF	501	-	-	2/12/32/32	0/3/3/3
49	GDP	QN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	GM	501	48	-	9/18/38/38	0/3/3/3
47	GTP	QK	501	48	-	9/18/38/38	0/3/3/3
49	GDP	TN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	GD	501	-	-	1/12/32/32	0/3/3/3
49	GDP	RJ	501	-	-	3/12/32/32	0/3/3/3
47	GTP	WM	501	48	-	8/18/38/38	0/3/3/3
47	GTP	UG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	TC	501	48	-	8/18/38/38	0/3/3/3
47	GTP	IK	501	48	-	8/18/38/38	0/3/3/3
47	GTP	OA	501	48	-	5/18/38/38	0/3/3/3
49	GDP	HL	501	-	-	1/12/32/32	0/3/3/3
49	GDP	CJ	501	-	-	1/12/32/32	0/3/3/3
49	GDP	QL	501	-	-	0/12/32/32	0/3/3/3
49	GDP	BF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	SN	501	-	-	0/12/32/32	0/3/3/3
47	GTP	NC	501	48	-	5/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	NK	501	48	-	6/18/38/38	0/3/3/3
49	GDP	WJ	501	-	-	2/12/32/32	0/3/3/3
47	GTP	JA	501	48	-	7/18/38/38	0/3/3/3
47	GTP	WE	501	48	-	8/18/38/38	0/3/3/3
49	GDP	CD	501	-	-	1/12/32/32	0/3/3/3
47	GTP	RG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	LE	501	48	-	8/18/38/38	0/3/3/3
49	GDP	MN	501	-	-	0/12/32/32	0/3/3/3
49	GDP	QJ	501	-	-	0/12/32/32	0/3/3/3
49	GDP	NL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	AA	501	48	-	7/18/38/38	0/3/3/3
47	GTP	FM	501	48	-	8/18/38/38	0/3/3/3
49	GDP	UF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	UD	501	-	-	1/12/32/32	0/3/3/3
47	GTP	GA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	LB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	QB	501	-	-	1/12/32/32	0/3/3/3
49	GDP	UN	501	-	-	1/12/32/32	0/3/3/3
49	GDP	DJ	501	-	-	0/12/32/32	0/3/3/3
49	GDP	SF	501	-	-	1/12/32/32	0/3/3/3
49	GDP	SB	501	-	-	1/12/32/32	0/3/3/3
47	GTP	HE	501	48	-	8/18/38/38	0/3/3/3
47	GTP	RE	501	48	-	8/18/38/38	0/3/3/3
49	GDP	MD	501	-	-	3/12/32/32	0/3/3/3
47	GTP	WG	501	48	-	8/18/38/38	0/3/3/3
47	GTP	LM	501	48	-	7/18/38/38	0/3/3/3
47	GTP	NE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	NH	501	-	-	0/12/32/32	0/3/3/3
49	GDP	AL	501	-	-	1/12/32/32	0/3/3/3
47	GTP	OC	501	48	-	7/18/38/38	0/3/3/3
47	GTP	DC	501	48	-	8/18/38/38	0/3/3/3
47	GTP	QC	501	48	-	5/18/38/38	0/3/3/3
47	GTP	AC	501	48	-	8/18/38/38	0/3/3/3
49	GDP	TD	501	-	-	3/12/32/32	0/3/3/3
49	GDP	PF	501	-	-	0/12/32/32	0/3/3/3
49	GDP	PL	501	-	-	0/12/32/32	0/3/3/3
47	GTP	FA	501	48	-	8/18/38/38	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
47	GTP	FE	501	48	-	9/18/38/38	0/3/3/3
47	GTP	GE	501	48	-	7/18/38/38	0/3/3/3
49	GDP	CH	501	-	-	1/12/32/32	0/3/3/3
47	GTP	NM	501	48	-	5/18/38/38	0/3/3/3
47	GTP	EG	501	48	-	7/18/38/38	0/3/3/3
49	GDP	LJ	501	-	-	2/12/32/32	0/3/3/3
47	GTP	II	501	48	-	8/18/38/38	0/3/3/3
47	GTP	LA	501	48	-	8/18/38/38	0/3/3/3
49	GDP	VB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	SL	501	-	-	2/12/32/32	0/3/3/3
49	GDP	IH	501	-	-	0/12/32/32	0/3/3/3
47	GTP	GC	501	48	-	8/18/38/38	0/3/3/3
47	GTP	RM	501	48	-	9/18/38/38	0/3/3/3
49	GDP	HD	501	-	-	1/12/32/32	0/3/3/3
47	GTP	KM	501	48	-	6/18/38/38	0/3/3/3
47	GTP	WA	501	48	-	6/18/38/38	0/3/3/3
47	GTP	JK	501	48	-	9/18/38/38	0/3/3/3
49	GDP	EB	501	-	-	0/12/32/32	0/3/3/3
49	GDP	MF	501	-	-	0/12/32/32	0/3/3/3
47	GTP	NA	501	48	-	8/18/38/38	0/3/3/3
47	GTP	PE	501	48	-	7/18/38/38	0/3/3/3

All (493) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	AK	501	GTP	C5-C6	-4.50	1.38	1.47
47	LE	501	GTP	C5-C6	-4.46	1.38	1.47
47	VE	501	GTP	C5-C6	-4.44	1.38	1.47
47	NK	501	GTP	C5-C6	-4.43	1.38	1.47
47	NI	501	GTP	C5-C6	-4.43	1.38	1.47
47	ME	501	GTP	C5-C6	-4.40	1.38	1.47
47	KG	501	GTP	C5-C6	-4.40	1.38	1.47
47	NE	501	GTP	C5-C6	-4.40	1.38	1.47
47	QK	501	GTP	C5-C6	-4.39	1.38	1.47
47	IE	501	GTP	C5-C6	-4.39	1.38	1.47
47	GK	501	GTP	C5-C6	-4.38	1.38	1.47
47	LI	501	GTP	C5-C6	-4.38	1.38	1.47
47	LK	501	GTP	C5-C6	-4.37	1.38	1.47
47	QG	501	GTP	C5-C6	-4.36	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	RI	501	GTP	C5-C6	-4.36	1.38	1.47
47	KE	501	GTP	C5-C6	-4.36	1.38	1.47
47	IG	501	GTP	C5-C6	-4.36	1.38	1.47
47	MG	501	GTP	C5-C6	-4.35	1.38	1.47
47	KC	501	GTP	C5-C6	-4.35	1.38	1.47
47	KI	501	GTP	C5-C6	-4.35	1.38	1.47
47	SG	501	GTP	C5-C6	-4.34	1.38	1.47
47	MC	501	GTP	C5-C6	-4.34	1.38	1.47
47	LC	501	GTP	C5-C6	-4.33	1.38	1.47
47	QI	501	GTP	C5-C6	-4.33	1.38	1.47
47	EE	501	GTP	C5-C6	-4.32	1.38	1.47
47	FE	501	GTP	C5-C6	-4.31	1.38	1.47
47	JE	501	GTP	C5-C6	-4.31	1.38	1.47
47	JC	501	GTP	C5-C6	-4.31	1.38	1.47
47	QE	501	GTP	C5-C6	-4.31	1.38	1.47
47	FI	501	GTP	C5-C6	-4.31	1.38	1.47
47	AE	501	GTP	C5-C6	-4.31	1.38	1.47
47	FG	501	GTP	C5-C6	-4.31	1.38	1.47
47	HG	501	GTP	C5-C6	-4.31	1.38	1.47
47	GG	501	GTP	C5-C6	-4.31	1.38	1.47
47	LG	501	GTP	C5-C6	-4.31	1.38	1.47
47	BK	501	GTP	C5-C6	-4.30	1.38	1.47
47	KK	501	GTP	C5-C6	-4.30	1.38	1.47
47	IK	501	GTP	C5-C6	-4.30	1.38	1.47
47	II	501	GTP	C5-C6	-4.30	1.38	1.47
47	LA	501	GTP	C5-C6	-4.30	1.38	1.47
47	MK	501	GTP	C5-C6	-4.30	1.38	1.47
47	JG	501	GTP	C5-C6	-4.29	1.39	1.47
47	NG	501	GTP	C5-C6	-4.29	1.39	1.47
47	FK	501	GTP	C5-C6	-4.29	1.39	1.47
47	SI	501	GTP	C5-C6	-4.29	1.39	1.47
47	AG	501	GTP	C5-C6	-4.29	1.39	1.47
47	HE	501	GTP	C5-C6	-4.28	1.39	1.47
47	AI	501	GTP	C5-C6	-4.28	1.39	1.47
47	MI	501	GTP	C5-C6	-4.28	1.39	1.47
47	IC	501	GTP	C5-C6	-4.28	1.39	1.47
47	GC	501	GTP	C5-C6	-4.28	1.39	1.47
47	BE	501	GTP	C5-C6	-4.28	1.39	1.47
47	SE	501	GTP	C5-C6	-4.27	1.39	1.47
47	TI	501	GTP	C5-C6	-4.27	1.39	1.47
47	DE	501	GTP	C5-C6	-4.27	1.39	1.47
47	RE	501	GTP	C5-C6	-4.27	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	KA	501	GTP	C5-C6	-4.27	1.39	1.47
47	LM	501	GTP	C5-C6	-4.27	1.39	1.47
47	VK	501	GTP	C5-C6	-4.26	1.39	1.47
47	AA	501	GTP	C5-C6	-4.26	1.39	1.47
47	AM	501	GTP	C5-C6	-4.26	1.39	1.47
47	NM	501	GTP	C5-C6	-4.26	1.39	1.47
47	JK	501	GTP	C5-C6	-4.26	1.39	1.47
47	BC	502	GTP	C5-C6	-4.26	1.39	1.47
47	DC	501	GTP	C5-C6	-4.26	1.39	1.47
47	HI	501	GTP	C5-C6	-4.26	1.39	1.47
47	GE	501	GTP	C5-C6	-4.26	1.39	1.47
47	RC	501	GTP	C5-C6	-4.26	1.39	1.47
47	BI	501	GTP	C5-C6	-4.26	1.39	1.47
47	FC	501	GTP	C5-C6	-4.25	1.39	1.47
47	EI	501	GTP	C5-C6	-4.25	1.39	1.47
47	OM	501	GTP	C5-C6	-4.25	1.39	1.47
47	TG	501	GTP	C5-C6	-4.25	1.39	1.47
47	JA	501	GTP	C5-C6	-4.25	1.39	1.47
47	EG	501	GTP	C5-C6	-4.25	1.39	1.47
47	EK	501	GTP	C5-C6	-4.25	1.39	1.47
47	TK	501	GTP	C5-C6	-4.25	1.39	1.47
47	NC	501	GTP	C5-C6	-4.24	1.39	1.47
47	RG	501	GTP	C5-C6	-4.24	1.39	1.47
47	UI	501	GTP	C5-C6	-4.24	1.39	1.47
47	KM	501	GTP	C5-C6	-4.24	1.39	1.47
47	WE	501	GTP	C5-C6	-4.24	1.39	1.47
47	OF	501	GTP	C5-C6	-4.23	1.39	1.47
47	AC	501	GTP	C5-C6	-4.23	1.39	1.47
47	UE	501	GTP	C5-C6	-4.23	1.39	1.47
47	UK	501	GTP	C5-C6	-4.23	1.39	1.47
47	DK	501	GTP	C5-C6	-4.23	1.39	1.47
47	WC	501	GTP	C5-C6	-4.23	1.39	1.47
47	GI	501	GTP	C5-C6	-4.22	1.39	1.47
47	WI	501	GTP	C5-C6	-4.22	1.39	1.47
47	IA	501	GTP	C5-C6	-4.22	1.39	1.47
47	RK	501	GTP	C5-C6	-4.22	1.39	1.47
47	SK	501	GTP	C5-C6	-4.22	1.39	1.47
47	VI	501	GTP	C5-C6	-4.21	1.39	1.47
47	HC	501	GTP	C5-C6	-4.21	1.39	1.47
47	PK	501	GTP	C5-C6	-4.21	1.39	1.47
47	VC	501	GTP	C5-C6	-4.21	1.39	1.47
47	SM	501	GTP	C5-C6	-4.21	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	UG	501	GTP	C5-C6	-4.21	1.39	1.47
47	VA	501	GTP	C5-C6	-4.20	1.39	1.47
47	DG	501	GTP	C5-C6	-4.20	1.39	1.47
47	MM	501	GTP	C5-C6	-4.20	1.39	1.47
47	UC	501	GTP	C5-C6	-4.20	1.39	1.47
47	UM	501	GTP	C5-C6	-4.20	1.39	1.47
47	JI	501	GTP	C5-C6	-4.20	1.39	1.47
47	PE	501	GTP	C5-C6	-4.20	1.39	1.47
47	DM	501	GTP	C5-C6	-4.19	1.39	1.47
47	WG	501	GTP	C5-C6	-4.19	1.39	1.47
47	CM	501	GTP	C5-C6	-4.19	1.39	1.47
47	SC	501	GTP	C5-C6	-4.19	1.39	1.47
47	DI	501	GTP	C5-C6	-4.19	1.39	1.47
47	TE	501	GTP	C5-C6	-4.19	1.39	1.47
47	CG	501	GTP	C5-C6	-4.19	1.39	1.47
47	VG	501	GTP	C5-C6	-4.19	1.39	1.47
47	OK	501	GTP	C5-C6	-4.18	1.39	1.47
47	NA	501	GTP	C5-C6	-4.18	1.39	1.47
47	MA	501	GTP	C5-C6	-4.17	1.39	1.47
47	WK	501	GTP	C5-C6	-4.17	1.39	1.47
47	CE	501	GTP	C5-C6	-4.17	1.39	1.47
47	EC	501	GTP	C5-C6	-4.17	1.39	1.47
47	GA	501	GTP	C5-C6	-4.16	1.39	1.47
47	FA	501	GTP	C5-C6	-4.16	1.39	1.47
47	FM	501	GTP	C5-C6	-4.16	1.39	1.47
47	QC	501	GTP	C5-C6	-4.16	1.39	1.47
47	CC	501	GTP	C5-C6	-4.15	1.39	1.47
47	TA	501	GTP	C5-C6	-4.15	1.39	1.47
47	CK	501	GTP	C5-C6	-4.15	1.39	1.47
47	OI	501	GTP	C5-C6	-4.15	1.39	1.47
47	OA	501	GTP	C5-C6	-4.15	1.39	1.47
47	TM	501	GTP	C5-C6	-4.15	1.39	1.47
47	BM	501	GTP	C5-C6	-4.15	1.39	1.47
47	EA	501	GTP	C5-C6	-4.15	1.39	1.47
47	CA	501	GTP	C5-C6	-4.15	1.39	1.47
47	WM	501	GTP	C5-C6	-4.15	1.39	1.47
47	QA	501	GTP	C5-C6	-4.14	1.39	1.47
47	JM	501	GTP	C5-C6	-4.14	1.39	1.47
47	BG	501	GTP	C5-C6	-4.14	1.39	1.47
47	HA	501	GTP	C5-C6	-4.14	1.39	1.47
47	CI	501	GTP	C5-C6	-4.14	1.39	1.47
47	PD	501	GTP	C5-C6	-4.14	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	WA	501	GTP	C5-C6	-4.13	1.39	1.47
47	RA	501	GTP	C5-C6	-4.13	1.39	1.47
47	HM	501	GTP	C5-C6	-4.13	1.39	1.47
47	DA	501	GTP	C5-C6	-4.13	1.39	1.47
47	PG	501	GTP	C5-C6	-4.13	1.39	1.47
47	TC	501	GTP	C5-C6	-4.13	1.39	1.47
47	QM	501	GTP	C5-C6	-4.12	1.39	1.47
47	SA	501	GTP	C5-C6	-4.12	1.39	1.47
47	HK	501	GTP	C5-C6	-4.12	1.39	1.47
47	PI	501	GTP	C5-C6	-4.12	1.39	1.47
47	RM	501	GTP	C5-C6	-4.12	1.39	1.47
47	OG	501	GTP	C5-C6	-4.12	1.39	1.47
47	EM	501	GTP	C5-C6	-4.11	1.39	1.47
47	PA	501	GTP	C5-C6	-4.11	1.39	1.47
47	PM	501	GTP	C5-C6	-4.11	1.39	1.47
47	IM	501	GTP	C5-C6	-4.11	1.39	1.47
47	UA	501	GTP	C5-C6	-4.11	1.39	1.47
47	VM	501	GTP	C5-C6	-4.10	1.39	1.47
47	OC	501	GTP	C5-C6	-4.09	1.39	1.47
47	BA	501	GTP	C5-C6	-4.08	1.39	1.47
47	GM	501	GTP	C5-C6	-4.06	1.39	1.47
49	RB	501	GDP	C6-N1	-2.66	1.33	1.37
49	RJ	501	GDP	C6-N1	-2.64	1.33	1.37
49	KH	501	GDP	C6-N1	-2.63	1.33	1.37
49	GH	501	GDP	C6-N1	-2.59	1.33	1.37
49	VF	501	GDP	C6-N1	-2.53	1.33	1.37
49	GL	502	GDP	C6-N1	-2.53	1.33	1.37
49	LF	501	GDP	C6-N1	-2.52	1.33	1.37
49	UJ	501	GDP	C6-N1	-2.51	1.34	1.37
49	HJ	501	GDP	C6-N1	-2.51	1.34	1.37
49	FJ	501	GDP	C6-N1	-2.51	1.34	1.37
49	IL	501	GDP	C6-N1	-2.51	1.34	1.37
49	AN	501	GDP	C6-N1	-2.49	1.34	1.37
49	LD	501	GDP	C6-N1	-2.49	1.34	1.37
49	AJ	501	GDP	C6-N1	-2.49	1.34	1.37
49	GF	501	GDP	C6-N1	-2.49	1.34	1.37
49	DJ	501	GDP	C6-N1	-2.49	1.34	1.37
49	SD	501	GDP	C6-N1	-2.48	1.34	1.37
49	MD	501	GDP	C6-N1	-2.48	1.34	1.37
49	BL	501	GDP	C6-N1	-2.47	1.34	1.37
49	BD	501	GDP	C6-N1	-2.47	1.34	1.37
49	QF	501	GDP	C6-N1	-2.47	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	QD	501	GDP	C6-N1	-2.47	1.34	1.37
49	IF	501	GDP	C6-N1	-2.47	1.34	1.37
49	FH	501	GDP	C6-N1	-2.47	1.34	1.37
49	GD	501	GDP	C6-N1	-2.46	1.34	1.37
49	LH	501	GDP	C6-N1	-2.46	1.34	1.37
49	ML	501	GDP	C6-N1	-2.46	1.34	1.37
49	CD	501	GDP	C6-N1	-2.46	1.34	1.37
49	VL	501	GDP	C6-N1	-2.46	1.34	1.37
49	HN	501	GDP	C6-N1	-2.46	1.34	1.37
49	HL	501	GDP	C6-N1	-2.45	1.34	1.37
49	AL	501	GDP	C6-N1	-2.45	1.34	1.37
49	DD	501	GDP	C6-N1	-2.45	1.34	1.37
49	EF	501	GDP	C6-N1	-2.45	1.34	1.37
49	QJ	501	GDP	C6-N1	-2.45	1.34	1.37
49	AF	501	GDP	C6-N1	-2.45	1.34	1.37
49	GJ	501	GDP	C6-N1	-2.45	1.34	1.37
49	JJ	501	GDP	C6-N1	-2.45	1.34	1.37
49	RH	501	GDP	C6-N1	-2.45	1.34	1.37
49	UH	501	GDP	C6-N1	-2.45	1.34	1.37
49	NJ	501	GDP	C6-N1	-2.44	1.34	1.37
49	ID	501	GDP	C6-N1	-2.44	1.34	1.37
49	ND	502	GDP	C6-N1	-2.44	1.34	1.37
49	WH	501	GDP	C6-N1	-2.44	1.34	1.37
49	IH	501	GDP	C6-N1	-2.44	1.34	1.37
49	WF	501	GDP	C6-N1	-2.44	1.34	1.37
49	HH	501	GDP	C6-N1	-2.44	1.34	1.37
49	MH	501	GDP	C6-N1	-2.44	1.34	1.37
49	LJ	501	GDP	C6-N1	-2.44	1.34	1.37
49	RF	501	GDP	C6-N1	-2.43	1.34	1.37
49	LL	501	GDP	C6-N1	-2.43	1.34	1.37
49	JF	501	GDP	C6-N1	-2.43	1.34	1.37
49	VD	501	GDP	C6-N1	-2.43	1.34	1.37
49	MJ	501	GDP	C6-N1	-2.43	1.34	1.37
49	AH	501	GDP	C6-N1	-2.43	1.34	1.37
49	OF	502	GDP	C6-N1	-2.43	1.34	1.37
49	BH	501	GDP	C6-N1	-2.43	1.34	1.37
49	HF	501	GDP	C6-N1	-2.42	1.34	1.37
49	IJ	501	GDP	C6-N1	-2.42	1.34	1.37
49	CF	501	GDP	C6-N1	-2.42	1.34	1.37
49	KJ	501	GDP	C6-N1	-2.42	1.34	1.37
49	AD	501	GDP	C6-N1	-2.42	1.34	1.37
49	VH	501	GDP	C6-N1	-2.42	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	UF	501	GDP	C6-N1	-2.42	1.34	1.37
49	JL	501	GDP	C6-N1	-2.42	1.34	1.37
49	SF	501	GDP	C6-N1	-2.42	1.34	1.37
49	FD	501	GDP	C6-N1	-2.42	1.34	1.37
49	ON	501	GDP	C6-N1	-2.42	1.34	1.37
49	JB	501	GDP	C6-N1	-2.41	1.34	1.37
49	NL	501	GDP	C6-N1	-2.41	1.34	1.37
49	OJ	501	GDP	C6-N1	-2.41	1.34	1.37
49	BF	501	GDP	C6-N1	-2.41	1.34	1.37
49	HD	501	GDP	C6-N1	-2.41	1.34	1.37
49	LN	501	GDP	C6-N1	-2.41	1.34	1.37
49	RD	501	GDP	C6-N1	-2.41	1.34	1.37
49	CH	501	GDP	C6-N1	-2.41	1.34	1.37
49	BJ	501	GDP	C6-N1	-2.41	1.34	1.37
49	VN	501	GDP	C6-N1	-2.40	1.34	1.37
49	NF	501	GDP	C6-N1	-2.40	1.34	1.37
49	SJ	501	GDP	C6-N1	-2.40	1.34	1.37
49	WN	501	GDP	C6-N1	-2.40	1.34	1.37
49	PH	501	GDP	C6-N1	-2.40	1.34	1.37
49	NH	501	GDP	C6-N1	-2.40	1.34	1.37
49	UL	501	GDP	C6-N1	-2.39	1.34	1.37
49	ED	501	GDP	C6-N1	-2.39	1.34	1.37
49	MF	501	GDP	C6-N1	-2.38	1.34	1.37
49	QH	501	GDP	C6-N1	-2.38	1.34	1.37
49	GN	502	GDP	C6-N1	-2.38	1.34	1.37
49	KB	501	GDP	C6-N1	-2.38	1.34	1.37
49	CJ	501	GDP	C6-N1	-2.38	1.34	1.37
49	TH	501	GDP	C6-N1	-2.38	1.34	1.37
49	TL	501	GDP	C6-N1	-2.38	1.34	1.37
49	FL	502	GDP	C6-N1	-2.38	1.34	1.37
49	WL	501	GDP	C6-N1	-2.37	1.34	1.37
49	KD	501	GDP	C6-N1	-2.37	1.34	1.37
49	RL	501	GDP	C6-N1	-2.37	1.34	1.37
49	EJ	501	GDP	C6-N1	-2.37	1.34	1.37
49	DH	501	GDP	C6-N1	-2.37	1.34	1.37
49	FN	501	GDP	C6-N1	-2.37	1.34	1.37
49	BN	501	GDP	C6-N1	-2.37	1.34	1.37
49	IN	501	GDP	C6-N1	-2.37	1.34	1.37
49	JD	501	GDP	C6-N1	-2.37	1.34	1.37
49	NB	501	GDP	C6-N1	-2.37	1.34	1.37
49	MN	501	GDP	C6-N1	-2.36	1.34	1.37
49	FF	501	GDP	C6-N1	-2.36	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	JH	501	GDP	C6-N1	-2.36	1.34	1.37
49	KL	501	GDP	C6-N1	-2.36	1.34	1.37
49	TF	501	GDP	C6-N1	-2.36	1.34	1.37
49	PN	502	GDP	C6-N1	-2.36	1.34	1.37
49	OD	501	GDP	C6-N1	-2.36	1.34	1.37
49	UD	501	GDP	C6-N1	-2.35	1.34	1.37
49	EN	501	GDP	C6-N1	-2.35	1.34	1.37
49	WD	501	GDP	C6-N1	-2.35	1.34	1.37
49	OL	501	GDP	C6-N1	-2.35	1.34	1.37
49	WB	501	GDP	C6-N1	-2.35	1.34	1.37
49	QL	501	GDP	C6-N1	-2.34	1.34	1.37
49	CL	501	GDP	C6-N1	-2.34	1.34	1.37
49	VJ	501	GDP	C6-N1	-2.34	1.34	1.37
49	SH	501	GDP	C6-N1	-2.34	1.34	1.37
49	WJ	501	GDP	C6-N1	-2.34	1.34	1.37
49	LB	501	GDP	C6-N1	-2.34	1.34	1.37
49	NN	501	GDP	C6-N1	-2.34	1.34	1.37
49	OH	501	GDP	C6-N1	-2.34	1.34	1.37
49	EH	501	GDP	C6-N1	-2.34	1.34	1.37
49	KF	501	GDP	C6-N1	-2.33	1.34	1.37
49	DF	501	GDP	C6-N1	-2.33	1.34	1.37
49	SL	501	GDP	C6-N1	-2.33	1.34	1.37
49	UN	501	GDP	C6-N1	-2.32	1.34	1.37
49	TJ	501	GDP	C6-N1	-2.32	1.34	1.37
49	PL	501	GDP	C6-N1	-2.32	1.34	1.37
49	QB	501	GDP	C6-N1	-2.32	1.34	1.37
49	RN	501	GDP	C6-N1	-2.32	1.34	1.37
49	CB	501	GDP	C6-N1	-2.32	1.34	1.37
47	EM	501	GTP	C2-N3	2.32	1.38	1.33
49	VB	501	GDP	C6-N1	-2.32	1.34	1.37
49	JN	501	GDP	C6-N1	-2.31	1.34	1.37
49	EB	501	GDP	C6-N1	-2.31	1.34	1.37
49	PB	501	GDP	C6-N1	-2.30	1.34	1.37
49	OB	501	GDP	C6-N1	-2.30	1.34	1.37
49	PJ	501	GDP	C6-N1	-2.30	1.34	1.37
49	KN	501	GDP	C6-N1	-2.29	1.34	1.37
49	PF	501	GDP	C6-N1	-2.29	1.34	1.37
49	GB	502	GDP	C6-N1	-2.28	1.34	1.37
49	TD	501	GDP	C6-N1	-2.28	1.34	1.37
49	MB	501	GDP	C6-N1	-2.28	1.34	1.37
49	DL	501	GDP	C6-N1	-2.27	1.34	1.37
49	CN	501	GDP	C6-N1	-2.27	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	PD	502	GDP	C6-N1	-2.26	1.34	1.37
47	UA	501	GTP	C2-N3	2.26	1.38	1.33
49	EL	501	GDP	C6-N1	-2.25	1.34	1.37
49	UB	501	GDP	C6-N1	-2.25	1.34	1.37
47	SM	501	GTP	C2-N3	2.25	1.38	1.33
49	FB	501	GDP	C6-N1	-2.25	1.34	1.37
49	TN	501	GDP	C6-N1	-2.25	1.34	1.37
49	DB	501	GDP	C6-N1	-2.24	1.34	1.37
47	BG	501	GTP	C2-N3	2.24	1.38	1.33
49	HB	501	GDP	C6-N1	-2.24	1.34	1.37
47	HM	501	GTP	C2-N3	2.24	1.38	1.33
49	SN	501	GDP	C6-N1	-2.24	1.34	1.37
49	BB	501	GDP	C6-N1	-2.24	1.34	1.37
47	FM	501	GTP	C2-N3	2.24	1.38	1.33
47	VM	501	GTP	C2-N3	2.23	1.38	1.33
49	AB	501	GDP	C6-N1	-2.23	1.34	1.37
47	RA	501	GTP	C2-N3	2.23	1.38	1.33
49	DN	501	GDP	C6-N1	-2.23	1.34	1.37
49	QN	501	GDP	C6-N1	-2.22	1.34	1.37
47	EA	501	GTP	C2-N3	2.22	1.38	1.33
47	HA	501	GTP	C2-N3	2.22	1.38	1.33
47	QA	501	GTP	C2-N3	2.22	1.38	1.33
47	DA	501	GTP	C2-N3	2.22	1.38	1.33
47	JM	501	GTP	C2-N3	2.22	1.38	1.33
49	IB	501	GDP	C6-N1	-2.21	1.34	1.37
47	GM	501	GTP	C2-N3	2.21	1.38	1.33
49	TB	501	GDP	C6-N1	-2.21	1.34	1.37
47	NA	501	GTP	C2-N3	2.21	1.38	1.33
47	QC	501	GTP	C2-N3	2.21	1.38	1.33
47	WM	501	GTP	C2-N3	2.21	1.38	1.33
47	TA	501	GTP	C2-N3	2.21	1.38	1.33
47	SA	501	GTP	C2-N3	2.21	1.38	1.33
47	PA	501	GTP	C2-N3	2.21	1.38	1.33
47	BI	501	GTP	C2-N3	2.21	1.38	1.33
47	CA	501	GTP	C2-N3	2.20	1.38	1.33
47	DK	501	GTP	C2-N3	2.20	1.38	1.33
47	RC	501	GTP	C2-N3	2.19	1.38	1.33
47	PG	501	GTP	C2-N3	2.19	1.38	1.33
47	VE	501	GTP	C2-N3	2.19	1.38	1.33
47	OA	501	GTP	C2-N3	2.19	1.38	1.33
47	CM	501	GTP	C2-N3	2.19	1.38	1.33
47	OC	501	GTP	C2-N3	2.19	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	ME	501	GTP	C2-N3	2.19	1.38	1.33
47	DC	501	GTP	C2-N3	2.19	1.38	1.33
47	WG	501	GTP	C2-N3	2.19	1.38	1.33
47	PK	501	GTP	C2-N3	2.18	1.38	1.33
47	UM	501	GTP	C2-N3	2.18	1.38	1.33
47	QE	501	GTP	C2-N3	2.18	1.38	1.33
47	OM	501	GTP	C2-N3	2.18	1.38	1.33
47	UI	501	GTP	C2-N3	2.18	1.38	1.33
47	DI	501	GTP	C2-N3	2.18	1.38	1.33
47	QI	501	GTP	C2-N3	2.18	1.38	1.33
47	IC	501	GTP	C2-N3	2.18	1.38	1.33
47	RI	501	GTP	C2-N3	2.18	1.38	1.33
47	AC	501	GTP	C2-N3	2.18	1.38	1.33
47	CG	501	GTP	C2-N3	2.17	1.38	1.33
47	DG	501	GTP	C2-N3	2.17	1.38	1.33
47	BK	501	GTP	C2-N3	2.17	1.38	1.33
47	UE	501	GTP	C2-N3	2.17	1.38	1.33
47	QG	501	GTP	C2-N3	2.17	1.38	1.33
49	SB	501	GDP	C6-N1	-2.17	1.34	1.37
47	HI	501	GTP	C2-N3	2.17	1.38	1.33
47	TM	501	GTP	C2-N3	2.17	1.38	1.33
47	UG	501	GTP	C2-N3	2.17	1.38	1.33
47	RG	501	GTP	C2-N3	2.17	1.38	1.33
47	PD	501	GTP	C2-N3	2.16	1.38	1.33
47	TC	501	GTP	C2-N3	2.16	1.38	1.33
47	GC	501	GTP	C2-N3	2.16	1.38	1.33
47	IE	501	GTP	C2-N3	2.16	1.38	1.33
47	CK	501	GTP	C2-N3	2.16	1.38	1.33
47	GE	501	GTP	C2-N3	2.16	1.38	1.33
47	IA	501	GTP	C2-N3	2.16	1.38	1.33
47	NM	501	GTP	C2-N3	2.16	1.38	1.33
47	WC	501	GTP	C2-N3	2.16	1.38	1.33
47	EC	501	GTP	C2-N3	2.16	1.38	1.33
47	KA	501	GTP	C2-N3	2.16	1.38	1.33
47	JG	501	GTP	C2-N3	2.15	1.38	1.33
47	LK	501	GTP	C2-N3	2.15	1.38	1.33
47	UK	501	GTP	C2-N3	2.15	1.38	1.33
47	BC	502	GTP	C2-N3	2.15	1.38	1.33
47	DM	501	GTP	C2-N3	2.15	1.38	1.33
47	PE	501	GTP	C2-N3	2.15	1.38	1.33
47	AK	501	GTP	C2-N3	2.15	1.38	1.33
47	BE	501	GTP	C2-N3	2.15	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	NG	501	GTP	C2-N3	2.15	1.38	1.33
47	MA	501	GTP	C2-N3	2.15	1.38	1.33
47	HK	501	GTP	C2-N3	2.15	1.38	1.33
47	AI	501	GTP	C2-N3	2.15	1.38	1.33
47	QM	501	GTP	C2-N3	2.15	1.38	1.33
47	DE	501	GTP	C2-N3	2.15	1.38	1.33
47	BM	501	GTP	C2-N3	2.15	1.38	1.33
47	HC	501	GTP	C2-N3	2.15	1.38	1.33
47	OI	501	GTP	C2-N3	2.14	1.38	1.33
47	AM	501	GTP	C2-N3	2.14	1.38	1.33
47	BA	501	GTP	C2-N3	2.14	1.38	1.33
47	AG	501	GTP	C2-N3	2.14	1.38	1.33
47	LA	501	GTP	C2-N3	2.14	1.38	1.33
47	II	501	GTP	C2-N3	2.14	1.38	1.33
47	VK	501	GTP	C2-N3	2.14	1.38	1.33
47	FC	501	GTP	C2-N3	2.14	1.38	1.33
47	EI	501	GTP	C2-N3	2.14	1.38	1.33
47	FK	501	GTP	C2-N3	2.13	1.38	1.33
47	OG	501	GTP	C2-N3	2.13	1.38	1.33
47	HG	501	GTP	C2-N3	2.13	1.38	1.33
47	RE	501	GTP	C2-N3	2.13	1.38	1.33
47	PM	501	GTP	C2-N3	2.13	1.38	1.33
47	AE	501	GTP	C2-N3	2.13	1.38	1.33
47	JK	501	GTP	C2-N3	2.13	1.38	1.33
47	GI	501	GTP	C2-N3	2.13	1.38	1.33
47	VC	501	GTP	C2-N3	2.13	1.38	1.33
47	LG	501	GTP	C2-N3	2.13	1.38	1.33
47	MC	501	GTP	C2-N3	2.13	1.38	1.33
47	FA	501	GTP	C2-N3	2.12	1.38	1.33
47	EG	501	GTP	C2-N3	2.12	1.38	1.33
47	GG	501	GTP	C2-N3	2.12	1.38	1.33
47	UC	501	GTP	C2-N3	2.12	1.38	1.33
47	IM	501	GTP	C2-N3	2.12	1.38	1.33
47	VA	501	GTP	C2-N3	2.12	1.38	1.33
47	CE	501	GTP	C2-N3	2.12	1.38	1.33
47	WA	501	GTP	C2-N3	2.12	1.38	1.33
47	WI	501	GTP	C2-N3	2.12	1.38	1.33
47	EK	501	GTP	C2-N3	2.12	1.38	1.33
47	GK	501	GTP	C2-N3	2.12	1.38	1.33
47	IK	501	GTP	C2-N3	2.12	1.38	1.33
47	NK	501	GTP	C2-N3	2.12	1.38	1.33
47	CI	501	GTP	C2-N3	2.12	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	PI	501	GTP	C2-N3	2.12	1.38	1.33
47	OF	501	GTP	C2-N3	2.12	1.38	1.33
47	NI	501	GTP	C2-N3	2.11	1.38	1.33
47	LI	501	GTP	C2-N3	2.11	1.38	1.33
47	QK	501	GTP	C2-N3	2.11	1.38	1.33
47	SI	501	GTP	C2-N3	2.11	1.38	1.33
47	RM	501	GTP	C2-N3	2.11	1.38	1.33
47	NE	501	GTP	C2-N3	2.11	1.38	1.33
47	KE	501	GTP	C2-N3	2.11	1.38	1.33
47	KG	501	GTP	C2-N3	2.10	1.38	1.33
47	VG	501	GTP	C2-N3	2.10	1.38	1.33
47	JA	501	GTP	C2-N3	2.10	1.38	1.33
47	SC	501	GTP	C2-N3	2.10	1.38	1.33
47	GA	501	GTP	C2-N3	2.10	1.38	1.33
47	CC	501	GTP	PA-O3A	2.10	1.61	1.59
47	JC	501	GTP	C2-N3	2.10	1.38	1.33
47	RK	501	GTP	C2-N3	2.10	1.38	1.33
47	HE	501	GTP	C2-N3	2.10	1.38	1.33
47	JE	501	GTP	C2-N3	2.10	1.38	1.33
47	TG	501	GTP	C2-N3	2.10	1.38	1.33
47	WK	501	GTP	C2-N3	2.10	1.38	1.33
47	KM	501	GTP	C2-N3	2.09	1.38	1.33
47	SE	501	GTP	C2-N3	2.09	1.38	1.33
47	EE	501	GTP	C2-N3	2.09	1.38	1.33
47	KI	501	GTP	C2-N3	2.09	1.38	1.33
47	NC	501	GTP	C2-N3	2.09	1.38	1.33
47	VI	501	GTP	C2-N3	2.09	1.38	1.33
47	SG	501	GTP	C2-N3	2.08	1.38	1.33
47	MK	501	GTP	C2-N3	2.08	1.38	1.33
47	TI	501	GTP	C2-N3	2.08	1.38	1.33
47	CC	501	GTP	C2-N3	2.08	1.38	1.33
47	LC	501	GTP	C2-N3	2.08	1.38	1.33
47	TE	501	GTP	C2-N3	2.08	1.38	1.33
47	IG	501	GTP	C2-N3	2.08	1.38	1.33
47	KC	501	GTP	C2-N3	2.08	1.38	1.33
47	LM	501	GTP	C2-N3	2.07	1.38	1.33
47	TK	501	GTP	C2-N3	2.07	1.38	1.33
47	FE	501	GTP	C2-N3	2.07	1.38	1.33
47	OK	501	GTP	C2-N3	2.07	1.38	1.33
47	JI	501	GTP	C2-N3	2.07	1.38	1.33
47	EM	501	GTP	PA-O3A	2.07	1.61	1.59
47	AA	501	GTP	C2-N3	2.07	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
47	MI	501	GTP	C2-N3	2.06	1.38	1.33
47	MG	501	GTP	C2-N3	2.06	1.38	1.33
47	MM	501	GTP	C2-N3	2.05	1.38	1.33
47	KK	501	GTP	C2-N3	2.05	1.38	1.33
47	FG	501	GTP	C2-N3	2.05	1.38	1.33
47	LE	501	GTP	C2-N3	2.04	1.38	1.33
47	SK	501	GTP	C2-N3	2.03	1.38	1.33
47	PA	501	GTP	PA-O3A	2.03	1.61	1.59
47	QG	501	GTP	PA-O3A	2.03	1.61	1.59
47	DA	501	GTP	PA-O3A	2.03	1.61	1.59
47	FI	501	GTP	C2-N3	2.02	1.38	1.33
47	UM	501	GTP	PB-O3A	2.02	1.61	1.59
47	OM	501	GTP	PB-O3B	2.02	1.61	1.59
47	HM	501	GTP	PA-O3A	2.02	1.61	1.59
47	WE	501	GTP	C2-N3	2.02	1.38	1.33
47	JC	501	GTP	PA-O3A	2.01	1.61	1.59
49	EN	501	GDP	O4'-C1'	2.00	1.43	1.40

All (949) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	RG	501	GTP	C8-N7-C5	3.84	109.09	102.55
47	QC	501	GTP	C8-N7-C5	3.84	109.09	102.55
47	QE	501	GTP	C8-N7-C5	3.84	109.09	102.55
47	RK	501	GTP	C8-N7-C5	3.83	109.08	102.55
47	RE	501	GTP	C8-N7-C5	3.82	109.05	102.55
47	QM	501	GTP	C8-N7-C5	3.81	109.04	102.55
47	FA	501	GTP	C8-N7-C5	3.80	109.01	102.55
47	FC	501	GTP	C8-N7-C5	3.78	108.99	102.55
47	RC	501	GTP	C8-N7-C5	3.77	108.97	102.55
47	HC	501	GTP	C8-N7-C5	3.76	108.95	102.55
47	OF	501	GTP	C8-N7-C5	3.75	108.93	102.55
47	OC	501	GTP	C8-N7-C5	3.75	108.93	102.55
47	VC	501	GTP	C8-N7-C5	3.74	108.92	102.55
47	PE	501	GTP	C8-N7-C5	3.74	108.92	102.55
47	VG	501	GTP	C8-N7-C5	3.74	108.91	102.55
47	CG	501	GTP	C8-N7-C5	3.73	108.90	102.55
47	WE	501	GTP	C8-N7-C5	3.73	108.90	102.55
47	WA	501	GTP	C8-N7-C5	3.72	108.89	102.55
47	HG	501	GTP	C8-N7-C5	3.72	108.88	102.55
47	WI	501	GTP	C8-N7-C5	3.71	108.87	102.55
47	PI	501	GTP	C8-N7-C5	3.71	108.86	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	DI	501	GTP	C8-N7-C5	3.71	108.86	102.55
47	VI	501	GTP	C8-N7-C5	3.70	108.85	102.55
47	OA	501	GTP	C8-N7-C5	3.70	108.85	102.55
47	EM	501	GTP	C8-N7-C5	3.70	108.84	102.55
47	GC	501	GTP	C8-N7-C5	3.70	108.84	102.55
47	BG	501	GTP	C8-N7-C5	3.70	108.84	102.55
47	UK	501	GTP	C8-N7-C5	3.69	108.84	102.55
47	CC	501	GTP	C8-N7-C5	3.69	108.84	102.55
47	UM	501	GTP	C8-N7-C5	3.69	108.84	102.55
47	AE	501	GTP	C8-N7-C5	3.69	108.84	102.55
47	WG	501	GTP	C8-N7-C5	3.69	108.83	102.55
47	BK	501	GTP	C8-N7-C5	3.69	108.83	102.55
47	AM	501	GTP	C8-N7-C5	3.68	108.82	102.55
47	NC	501	GTP	C8-N7-C5	3.68	108.82	102.55
47	NG	501	GTP	C8-N7-C5	3.68	108.82	102.55
47	VA	501	GTP	C8-N7-C5	3.68	108.82	102.55
47	PM	501	GTP	C8-N7-C5	3.68	108.81	102.55
47	CE	501	GTP	C8-N7-C5	3.68	108.81	102.55
47	JI	501	GTP	C8-N7-C5	3.68	108.81	102.55
47	OG	501	GTP	C8-N7-C5	3.68	108.81	102.55
47	VK	501	GTP	C8-N7-C5	3.67	108.80	102.55
47	OI	501	GTP	C8-N7-C5	3.67	108.80	102.55
47	DC	501	GTP	C8-N7-C5	3.67	108.79	102.55
47	BM	501	GTP	C8-N7-C5	3.67	108.79	102.55
47	HI	501	GTP	C8-N7-C5	3.66	108.79	102.55
47	PG	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	DE	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	CK	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	HK	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	IE	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	HA	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	GI	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	AI	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	BA	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	MA	501	GTP	C8-N7-C5	3.66	108.78	102.55
47	WK	501	GTP	C8-N7-C5	3.66	108.77	102.55
47	UC	501	GTP	C8-N7-C5	3.66	108.77	102.55
47	MK	501	GTP	C8-N7-C5	3.65	108.77	102.55
47	JE	501	GTP	C8-N7-C5	3.65	108.77	102.55
47	WC	501	GTP	C8-N7-C5	3.65	108.77	102.55
47	TK	501	GTP	C8-N7-C5	3.65	108.76	102.55
47	JM	501	GTP	C8-N7-C5	3.65	108.76	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	MI	501	GTP	C8-N7-C5	3.64	108.75	102.55
47	OM	501	GTP	C8-N7-C5	3.64	108.75	102.55
47	HE	501	GTP	C8-N7-C5	3.64	108.75	102.55
47	IM	501	GTP	C8-N7-C5	3.64	108.75	102.55
47	CI	501	GTP	C8-N7-C5	3.64	108.75	102.55
47	IC	501	GTP	C8-N7-C5	3.64	108.75	102.55
47	TE	501	GTP	C8-N7-C5	3.64	108.75	102.55
47	PD	501	GTP	C8-N7-C5	3.64	108.74	102.55
47	KE	501	GTP	C8-N7-C5	3.64	108.74	102.55
47	IA	501	GTP	C8-N7-C5	3.64	108.74	102.55
47	FE	501	GTP	C8-N7-C5	3.63	108.73	102.55
47	MG	501	GTP	C8-N7-C5	3.63	108.73	102.55
47	KM	501	GTP	C8-N7-C5	3.63	108.72	102.55
47	UE	501	GTP	C8-N7-C5	3.63	108.72	102.55
47	DM	501	GTP	C8-N7-C5	3.62	108.72	102.55
47	RI	501	GTP	C8-N7-C5	3.62	108.72	102.55
47	BC	502	GTP	C8-N7-C5	3.62	108.72	102.55
47	IK	501	GTP	C8-N7-C5	3.62	108.72	102.55
47	MM	501	GTP	C8-N7-C5	3.62	108.72	102.55
47	WM	501	GTP	C8-N7-C5	3.62	108.71	102.55
47	AG	501	GTP	C8-N7-C5	3.62	108.71	102.55
47	PA	501	GTP	C8-N7-C5	3.62	108.71	102.55
47	FI	501	GTP	C8-N7-C5	3.62	108.71	102.55
47	TC	501	GTP	C8-N7-C5	3.62	108.71	102.55
47	FG	501	GTP	C8-N7-C5	3.62	108.71	102.55
47	JA	501	GTP	C8-N7-C5	3.62	108.71	102.55
47	BI	501	GTP	C8-N7-C5	3.62	108.70	102.55
47	SK	501	GTP	C8-N7-C5	3.61	108.70	102.55
47	EK	501	GTP	C8-N7-C5	3.61	108.70	102.55
47	GG	501	GTP	C8-N7-C5	3.61	108.70	102.55
47	II	501	GTP	C8-N7-C5	3.61	108.70	102.55
47	AA	501	GTP	C8-N7-C5	3.61	108.70	102.55
47	MC	501	GTP	C8-N7-C5	3.61	108.70	102.55
47	NA	501	GTP	C8-N7-C5	3.61	108.69	102.55
47	UI	501	GTP	C8-N7-C5	3.61	108.69	102.55
47	DK	501	GTP	C8-N7-C5	3.60	108.69	102.55
47	KI	501	GTP	C8-N7-C5	3.60	108.69	102.55
47	CM	501	GTP	C8-N7-C5	3.60	108.69	102.55
47	ME	501	GTP	C8-N7-C5	3.60	108.68	102.55
47	EE	501	GTP	C8-N7-C5	3.60	108.67	102.55
47	GE	501	GTP	C8-N7-C5	3.60	108.67	102.55
47	HM	501	GTP	C8-N7-C5	3.60	108.67	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	JG	501	GTP	C8-N7-C5	3.60	108.67	102.55
47	PK	501	GTP	C8-N7-C5	3.60	108.67	102.55
47	TM	501	GTP	C8-N7-C5	3.60	108.67	102.55
47	JK	501	GTP	C8-N7-C5	3.60	108.67	102.55
47	LC	501	GTP	C8-N7-C5	3.60	108.67	102.55
47	EI	501	GTP	C8-N7-C5	3.60	108.67	102.55
47	JC	501	GTP	C8-N7-C5	3.60	108.67	102.55
47	UG	501	GTP	C8-N7-C5	3.59	108.66	102.55
47	AC	501	GTP	C8-N7-C5	3.59	108.66	102.55
47	EC	501	GTP	C8-N7-C5	3.59	108.66	102.55
47	KC	501	GTP	C8-N7-C5	3.59	108.66	102.55
47	KK	501	GTP	C8-N7-C5	3.59	108.66	102.55
47	SE	501	GTP	C8-N7-C5	3.59	108.66	102.55
47	RM	501	GTP	C8-N7-C5	3.59	108.65	102.55
47	VM	501	GTP	C8-N7-C5	3.58	108.65	102.55
47	GK	501	GTP	C8-N7-C5	3.58	108.65	102.55
47	TA	501	GTP	C8-N7-C5	3.58	108.64	102.55
47	FK	501	GTP	C8-N7-C5	3.57	108.63	102.55
47	RA	501	GTP	C8-N7-C5	3.57	108.63	102.55
47	OK	501	GTP	C8-N7-C5	3.57	108.62	102.55
47	KG	501	GTP	C8-N7-C5	3.57	108.62	102.55
47	GA	501	GTP	C8-N7-C5	3.56	108.62	102.55
47	IG	501	GTP	C8-N7-C5	3.56	108.62	102.55
47	SG	501	GTP	C8-N7-C5	3.56	108.61	102.55
47	FM	501	GTP	C8-N7-C5	3.56	108.61	102.55
47	EG	501	GTP	C8-N7-C5	3.56	108.61	102.55
47	LM	501	GTP	C8-N7-C5	3.56	108.60	102.55
47	GM	501	GTP	C8-N7-C5	3.56	108.60	102.55
47	NK	501	GTP	C8-N7-C5	3.56	108.60	102.55
47	KA	501	GTP	C8-N7-C5	3.55	108.60	102.55
47	TI	501	GTP	C8-N7-C5	3.55	108.60	102.55
47	SI	501	GTP	C8-N7-C5	3.55	108.59	102.55
47	CA	501	GTP	C8-N7-C5	3.55	108.59	102.55
47	UA	501	GTP	C8-N7-C5	3.55	108.59	102.55
47	LE	501	GTP	C8-N7-C5	3.55	108.58	102.55
47	LA	501	GTP	C8-N7-C5	3.54	108.58	102.55
47	SC	501	GTP	C8-N7-C5	3.54	108.58	102.55
47	LG	501	GTP	C8-N7-C5	3.54	108.58	102.55
47	NM	501	GTP	C8-N7-C5	3.54	108.57	102.55
47	VE	501	GTP	C8-N7-C5	3.54	108.57	102.55
47	DA	501	GTP	C8-N7-C5	3.53	108.57	102.55
47	AK	501	GTP	C8-N7-C5	3.53	108.56	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	EA	501	GTP	C8-N7-C5	3.53	108.56	102.55
47	SA	501	GTP	C8-N7-C5	3.52	108.54	102.55
47	BE	501	GTP	C8-N7-C5	3.52	108.53	102.55
47	QA	501	GTP	C8-N7-C5	3.51	108.53	102.55
47	NI	501	GTP	C8-N7-C5	3.51	108.53	102.55
47	DG	501	GTP	C8-N7-C5	3.50	108.51	102.55
47	TG	501	GTP	C8-N7-C5	3.50	108.51	102.55
47	QI	501	GTP	C8-N7-C5	3.49	108.49	102.55
47	QG	501	GTP	C8-N7-C5	3.49	108.48	102.55
47	LK	501	GTP	C8-N7-C5	3.47	108.46	102.55
47	SM	501	GTP	C8-N7-C5	3.47	108.46	102.55
47	LI	501	GTP	C8-N7-C5	3.47	108.46	102.55
47	NE	501	GTP	C8-N7-C5	3.45	108.42	102.55
47	QK	501	GTP	C8-N7-C5	3.44	108.41	102.55
47	PK	501	GTP	C5-C6-N1	3.21	120.19	114.07
47	QG	501	GTP	C5-C6-N1	3.20	120.17	114.07
47	VE	501	GTP	C5-C6-N1	3.19	120.15	114.07
47	VE	501	GTP	C2-N1-C6	-3.16	119.33	125.11
47	PK	501	GTP	C2-N1-C6	-3.15	119.34	125.11
47	HE	501	GTP	C2-N1-C6	-3.14	119.36	125.11
47	QG	501	GTP	C2-N1-C6	-3.13	119.39	125.11
47	HI	501	GTP	C2-N1-C6	-3.12	119.40	125.11
47	FA	501	GTP	C5-C6-N1	3.11	120.00	114.07
47	HE	501	GTP	C5-C6-N1	3.11	120.00	114.07
47	BG	501	GTP	C2-N1-C6	-3.10	119.43	125.11
47	AC	501	GTP	C2-N1-C6	-3.10	119.43	125.11
47	VG	501	GTP	C2-N1-C6	-3.10	119.43	125.11
47	PE	501	GTP	C2-N1-C6	-3.10	119.44	125.11
47	QE	501	GTP	C5-C6-N1	3.09	119.97	114.07
47	HG	501	GTP	C5-C6-N1	3.09	119.97	114.07
47	BG	501	GTP	C5-C6-N1	3.09	119.96	114.07
49	RB	501	GDP	C8-N7-C5	3.09	107.81	102.55
47	VC	501	GTP	C5-C6-N1	3.08	119.95	114.07
47	DI	501	GTP	C5-C6-N1	3.08	119.94	114.07
47	FI	501	GTP	C5-C6-N1	3.08	119.94	114.07
47	VK	501	GTP	C2-N1-C6	-3.08	119.48	125.11
47	WC	501	GTP	C2-N1-C6	-3.08	119.48	125.11
47	AG	501	GTP	C2-N1-C6	-3.08	119.48	125.11
47	IK	501	GTP	C2-N1-C6	-3.08	119.48	125.11
47	CE	501	GTP	C5-C6-N1	3.07	119.93	114.07
47	PE	501	GTP	C5-C6-N1	3.07	119.93	114.07
47	UI	501	GTP	C2-N1-C6	-3.07	119.49	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	IK	501	GTP	C5-C6-N1	3.07	119.93	114.07
47	RI	501	GTP	C5-C6-N1	3.07	119.93	114.07
47	ME	501	GTP	C2-N1-C6	-3.07	119.49	125.11
47	HI	501	GTP	C5-C6-N1	3.07	119.92	114.07
47	WI	501	GTP	C5-C6-N1	3.07	119.92	114.07
47	WE	501	GTP	C2-N1-C6	-3.07	119.50	125.11
47	BC	502	GTP	C2-N1-C6	-3.07	119.50	125.11
47	HG	501	GTP	C2-N1-C6	-3.07	119.50	125.11
47	AC	501	GTP	C5-C6-N1	3.06	119.92	114.07
47	KE	501	GTP	C5-C6-N1	3.06	119.92	114.07
47	GK	501	GTP	C5-C6-N1	3.06	119.92	114.07
47	AI	501	GTP	C2-N1-C6	-3.06	119.50	125.11
47	DE	501	GTP	C2-N1-C6	-3.06	119.50	125.11
47	WI	501	GTP	C2-N1-C6	-3.06	119.51	125.11
47	LC	501	GTP	C5-C6-N1	3.06	119.91	114.07
47	LE	501	GTP	C2-N1-C6	-3.06	119.51	125.11
47	OF	501	GTP	C5-C6-N1	3.06	119.90	114.07
47	QK	501	GTP	C2-N1-C6	-3.06	119.52	125.11
47	ME	501	GTP	C5-C6-N1	3.05	119.90	114.07
47	AK	501	GTP	C2-N1-C6	-3.05	119.52	125.11
47	MI	501	GTP	C5-C6-N1	3.05	119.90	114.07
47	GG	501	GTP	C2-N1-C6	-3.05	119.52	125.11
47	GE	501	GTP	C5-C6-N1	3.05	119.89	114.07
47	VA	501	GTP	C5-C6-N1	3.05	119.89	114.07
47	QC	501	GTP	C5-C6-N1	3.05	119.89	114.07
47	GK	501	GTP	C2-N1-C6	-3.05	119.53	125.11
47	WE	501	GTP	C5-C6-N1	3.05	119.89	114.07
47	NG	501	GTP	C5-C6-N1	3.05	119.89	114.07
47	VC	501	GTP	C2-N1-C6	-3.05	119.53	125.11
47	TC	501	GTP	C5-C6-N1	3.05	119.88	114.07
47	NK	501	GTP	C5-C6-N1	3.05	119.88	114.07
47	MK	501	GTP	C2-N1-C6	-3.04	119.54	125.11
47	HA	501	GTP	C2-N1-C6	-3.04	119.54	125.11
47	AG	501	GTP	C5-C6-N1	3.04	119.88	114.07
47	AK	501	GTP	C5-C6-N1	3.04	119.88	114.07
47	MA	501	GTP	C5-C6-N1	3.04	119.88	114.07
47	FA	501	GTP	C2-N1-C6	-3.04	119.54	125.11
47	NI	501	GTP	C5-C6-N1	3.04	119.88	114.07
47	RC	501	GTP	C2-N1-C6	-3.04	119.54	125.11
47	AI	501	GTP	C5-C6-N1	3.04	119.87	114.07
47	LC	501	GTP	C2-N1-C6	-3.04	119.54	125.11
47	IE	501	GTP	C2-N1-C6	-3.04	119.55	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	QK	501	GTP	C5-C6-N1	3.04	119.87	114.07
47	HK	501	GTP	C2-N1-C6	-3.04	119.55	125.11
47	MI	501	GTP	C2-N1-C6	-3.04	119.55	125.11
47	LE	501	GTP	C5-C6-N1	3.04	119.86	114.07
47	GE	501	GTP	C2-N1-C6	-3.04	119.55	125.11
47	JG	501	GTP	C2-N1-C6	-3.04	119.55	125.11
47	AA	501	GTP	C5-C6-N1	3.04	119.86	114.07
47	AA	501	GTP	C2-N1-C6	-3.04	119.55	125.11
47	MM	501	GTP	C5-C6-N1	3.04	119.86	114.07
47	KA	501	GTP	C5-C6-N1	3.04	119.86	114.07
47	UE	501	GTP	C2-N1-C6	-3.04	119.55	125.11
47	HA	501	GTP	C5-C6-N1	3.03	119.86	114.07
47	KK	501	GTP	C5-C6-N1	3.03	119.86	114.07
47	GC	501	GTP	C2-N1-C6	-3.03	119.56	125.11
47	MC	501	GTP	C5-C6-N1	3.03	119.86	114.07
47	JE	501	GTP	C5-C6-N1	3.03	119.86	114.07
47	TC	501	GTP	C2-N1-C6	-3.03	119.56	125.11
47	OC	501	GTP	C5-C6-N1	3.03	119.85	114.07
47	RK	501	GTP	C2-N1-C6	-3.03	119.56	125.11
47	KM	501	GTP	C5-C6-N1	3.03	119.85	114.07
47	AE	501	GTP	C2-N1-C6	-3.03	119.56	125.11
47	OC	501	GTP	C2-N1-C6	-3.03	119.56	125.11
47	OM	501	GTP	C5-C6-N1	3.03	119.85	114.07
47	CK	501	GTP	C2-N1-C6	-3.03	119.57	125.11
47	CE	501	GTP	C2-N1-C6	-3.03	119.57	125.11
47	RE	501	GTP	C2-N1-C6	-3.03	119.57	125.11
47	LA	501	GTP	C2-N1-C6	-3.03	119.57	125.11
47	RI	501	GTP	C2-N1-C6	-3.03	119.57	125.11
47	AE	501	GTP	C5-C6-N1	3.03	119.84	114.07
47	PM	501	GTP	C2-N1-C6	-3.03	119.57	125.11
47	DI	501	GTP	C2-N1-C6	-3.03	119.57	125.11
47	BA	501	GTP	C2-N1-C6	-3.02	119.57	125.11
47	JK	501	GTP	C2-N1-C6	-3.02	119.57	125.11
47	EK	501	GTP	C5-C6-N1	3.02	119.84	114.07
47	MK	501	GTP	C5-C6-N1	3.02	119.84	114.07
47	LK	501	GTP	C2-N1-C6	-3.02	119.58	125.11
47	UM	501	GTP	C2-N1-C6	-3.02	119.58	125.11
47	GI	501	GTP	C5-C6-N1	3.02	119.84	114.07
47	DG	501	GTP	C2-N1-C6	-3.02	119.58	125.11
47	IC	501	GTP	C2-N1-C6	-3.02	119.58	125.11
47	IM	501	GTP	C2-N1-C6	-3.02	119.58	125.11
47	LG	501	GTP	C2-N1-C6	-3.02	119.59	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	HK	501	GTP	C5-C6-N1	3.02	119.83	114.07
47	KA	501	GTP	C2-N1-C6	-3.01	119.59	125.11
47	WG	501	GTP	C2-N1-C6	-3.01	119.59	125.11
47	CG	501	GTP	C5-C6-N1	3.01	119.82	114.07
47	RC	501	GTP	C5-C6-N1	3.01	119.82	114.07
47	BK	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	PI	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	RE	501	GTP	C5-C6-N1	3.01	119.82	114.07
47	VK	501	GTP	C5-C6-N1	3.01	119.82	114.07
47	JE	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	QC	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	QI	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	PG	501	GTP	C5-C6-N1	3.01	119.81	114.07
47	GI	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	AM	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	IA	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	VA	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	VI	501	GTP	C2-N1-C6	-3.01	119.60	125.11
47	HC	501	GTP	C2-N1-C6	-3.01	119.61	125.11
47	QE	501	GTP	C2-N1-C6	-3.01	119.61	125.11
47	IC	501	GTP	C5-C6-N1	3.01	119.81	114.07
47	MG	501	GTP	C5-C6-N1	3.01	119.81	114.07
47	UE	501	GTP	C5-C6-N1	3.01	119.81	114.07
47	PI	501	GTP	C5-C6-N1	3.01	119.81	114.07
47	GG	501	GTP	C5-C6-N1	3.01	119.80	114.07
47	IE	501	GTP	C5-C6-N1	3.01	119.80	114.07
47	IM	501	GTP	C5-C6-N1	3.01	119.80	114.07
47	HC	501	GTP	C5-C6-N1	3.00	119.80	114.07
47	KE	501	GTP	C2-N1-C6	-3.00	119.61	125.11
47	KI	501	GTP	C2-N1-C6	-3.00	119.61	125.11
47	BM	501	GTP	C2-N1-C6	-3.00	119.62	125.11
47	BA	501	GTP	C5-C6-N1	3.00	119.80	114.07
47	NK	501	GTP	C2-N1-C6	-3.00	119.62	125.11
47	TK	501	GTP	C5-C6-N1	3.00	119.79	114.07
47	IG	501	GTP	C2-N1-C6	-3.00	119.62	125.11
47	LI	501	GTP	C2-N1-C6	-3.00	119.62	125.11
47	NG	501	GTP	C2-N1-C6	-3.00	119.62	125.11
47	PD	501	GTP	C2-N1-C6	-3.00	119.62	125.11
47	PG	501	GTP	C2-N1-C6	-3.00	119.62	125.11
47	UK	501	GTP	C2-N1-C6	-3.00	119.62	125.11
47	RK	501	GTP	C5-C6-N1	3.00	119.79	114.07
47	WC	501	GTP	C5-C6-N1	3.00	119.79	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	UG	501	GTP	C2-N1-C6	-3.00	119.63	125.11
47	CK	501	GTP	C5-C6-N1	3.00	119.79	114.07
47	EI	501	GTP	C5-C6-N1	3.00	119.79	114.07
47	AM	501	GTP	C5-C6-N1	3.00	119.78	114.07
47	WA	501	GTP	C2-N1-C6	-2.99	119.63	125.11
47	KC	501	GTP	C5-C6-N1	2.99	119.78	114.07
47	BE	501	GTP	C2-N1-C6	-2.99	119.63	125.11
47	NI	501	GTP	C2-N1-C6	-2.99	119.63	125.11
47	VG	501	GTP	C5-C6-N1	2.99	119.78	114.07
47	CI	501	GTP	C2-N1-C6	-2.99	119.63	125.11
47	DK	501	GTP	C2-N1-C6	-2.99	119.63	125.11
47	UC	501	GTP	C5-C6-N1	2.99	119.78	114.07
47	MA	501	GTP	C2-N1-C6	-2.99	119.63	125.11
47	DE	501	GTP	C5-C6-N1	2.99	119.78	114.07
47	LA	501	GTP	C5-C6-N1	2.99	119.78	114.07
47	MM	501	GTP	C2-N1-C6	-2.99	119.64	125.11
47	JC	501	GTP	C2-N1-C6	-2.99	119.64	125.11
47	WM	501	GTP	C2-N1-C6	-2.99	119.64	125.11
47	GA	501	GTP	C5-C6-N1	2.99	119.77	114.07
47	CC	501	GTP	C2-N1-C6	-2.99	119.64	125.11
47	OF	501	GTP	C2-N1-C6	-2.99	119.64	125.11
47	OA	501	GTP	C5-C6-N1	2.99	119.77	114.07
47	FI	501	GTP	C2-N1-C6	-2.99	119.64	125.11
47	MG	501	GTP	C2-N1-C6	-2.99	119.64	125.11
47	RG	501	GTP	C2-N1-C6	-2.99	119.64	125.11
47	GC	501	GTP	C5-C6-N1	2.99	119.77	114.07
47	FE	501	GTP	C2-N1-C6	-2.98	119.65	125.11
47	TG	501	GTP	C5-C6-N1	2.98	119.77	114.07
47	WM	501	GTP	C5-C6-N1	2.98	119.77	114.07
47	JA	501	GTP	C2-N1-C6	-2.98	119.65	125.11
47	UK	501	GTP	C5-C6-N1	2.98	119.76	114.07
47	QM	501	GTP	C2-N1-C6	-2.98	119.65	125.11
47	BC	502	GTP	C5-C6-N1	2.98	119.76	114.07
47	BI	501	GTP	C5-C6-N1	2.98	119.76	114.07
47	KG	501	GTP	C5-C6-N1	2.98	119.76	114.07
47	MC	501	GTP	C2-N1-C6	-2.98	119.65	125.11
47	UC	501	GTP	C2-N1-C6	-2.98	119.65	125.11
47	KC	501	GTP	C2-N1-C6	-2.98	119.66	125.11
47	WK	501	GTP	C2-N1-C6	-2.98	119.66	125.11
47	DC	501	GTP	C5-C6-N1	2.98	119.75	114.07
47	KM	501	GTP	C2-N1-C6	-2.98	119.66	125.11
47	CG	501	GTP	C2-N1-C6	-2.98	119.66	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	CM	501	GTP	C2-N1-C6	-2.98	119.66	125.11
47	UI	501	GTP	C5-C6-N1	2.97	119.75	114.07
47	BK	501	GTP	C5-C6-N1	2.97	119.75	114.07
47	BI	501	GTP	C2-N1-C6	-2.97	119.67	125.11
47	OM	501	GTP	C2-N1-C6	-2.97	119.67	125.11
47	DC	501	GTP	C2-N1-C6	-2.97	119.67	125.11
47	KI	501	GTP	C5-C6-N1	2.97	119.74	114.07
47	IA	501	GTP	C5-C6-N1	2.97	119.74	114.07
47	LK	501	GTP	C5-C6-N1	2.97	119.74	114.07
47	QM	501	GTP	C5-C6-N1	2.97	119.74	114.07
47	SG	501	GTP	C5-C6-N1	2.97	119.74	114.07
47	FG	501	GTP	C5-C6-N1	2.97	119.73	114.07
47	II	501	GTP	C5-C6-N1	2.97	119.73	114.07
47	FE	501	GTP	C5-C6-N1	2.96	119.73	114.07
49	BH	501	GDP	C8-N7-C5	2.96	107.60	102.55
47	LI	501	GTP	C5-C6-N1	2.96	119.73	114.07
47	KK	501	GTP	C2-N1-C6	-2.96	119.68	125.11
47	OG	501	GTP	C2-N1-C6	-2.96	119.69	125.11
47	WG	501	GTP	C5-C6-N1	2.96	119.72	114.07
47	PM	501	GTP	C5-C6-N1	2.96	119.72	114.07
47	LM	501	GTP	C2-N1-C6	-2.96	119.69	125.11
47	OK	501	GTP	C2-N1-C6	-2.96	119.69	125.11
47	JK	501	GTP	C5-C6-N1	2.96	119.72	114.07
47	JG	501	GTP	C5-C6-N1	2.96	119.72	114.07
47	FG	501	GTP	C2-N1-C6	-2.96	119.69	125.11
47	BM	501	GTP	C5-C6-N1	2.96	119.71	114.07
47	LG	501	GTP	C5-C6-N1	2.96	119.71	114.07
47	NC	501	GTP	C5-C6-N1	2.96	119.71	114.07
47	IG	501	GTP	C5-C6-N1	2.96	119.71	114.07
47	SE	501	GTP	C5-C6-N1	2.96	119.71	114.07
47	II	501	GTP	C2-N1-C6	-2.96	119.70	125.11
49	KB	501	GDP	C8-N7-C5	2.95	107.58	102.55
47	GA	501	GTP	C2-N1-C6	-2.95	119.70	125.11
47	DK	501	GTP	C5-C6-N1	2.95	119.70	114.07
47	UM	501	GTP	C5-C6-N1	2.95	119.70	114.07
47	JI	501	GTP	C2-N1-C6	-2.95	119.71	125.11
47	OG	501	GTP	C5-C6-N1	2.95	119.70	114.07
47	WK	501	GTP	C5-C6-N1	2.95	119.70	114.07
47	KG	501	GTP	C2-N1-C6	-2.95	119.71	125.11
47	EG	501	GTP	C5-C6-N1	2.95	119.69	114.07
47	CA	501	GTP	C5-C6-N1	2.95	119.69	114.07
47	HM	501	GTP	C5-C6-N1	2.95	119.69	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	LM	501	GTP	C5-C6-N1	2.95	119.69	114.07
49	CJ	501	GDP	C8-N7-C5	2.95	107.57	102.55
47	CC	501	GTP	C5-C6-N1	2.95	119.69	114.07
47	CI	501	GTP	C5-C6-N1	2.95	119.69	114.07
47	DM	501	GTP	C5-C6-N1	2.95	119.69	114.07
47	SM	501	GTP	C5-C6-N1	2.95	119.69	114.07
49	KH	501	GDP	C8-N7-C5	2.94	107.56	102.55
47	CA	501	GTP	C2-N1-C6	-2.94	119.72	125.11
47	NE	501	GTP	C5-C6-N1	2.94	119.69	114.07
47	JM	501	GTP	C2-N1-C6	-2.94	119.72	125.11
49	PJ	501	GDP	C8-N7-C5	2.94	107.56	102.55
47	WA	501	GTP	C5-C6-N1	2.94	119.68	114.07
49	IJ	501	GDP	C8-N7-C5	2.94	107.56	102.55
47	JC	501	GTP	C5-C6-N1	2.94	119.68	114.07
49	HL	501	GDP	C8-N7-C5	2.94	107.56	102.55
47	EE	501	GTP	C5-C6-N1	2.94	119.68	114.07
47	OA	501	GTP	C2-N1-C6	-2.94	119.73	125.11
47	PD	501	GTP	C5-C6-N1	2.94	119.68	114.07
49	OD	501	GDP	C8-N7-C5	2.94	107.55	102.55
47	EI	501	GTP	C2-N1-C6	-2.94	119.73	125.11
47	RM	501	GTP	C5-C6-N1	2.94	119.68	114.07
47	EK	501	GTP	C2-N1-C6	-2.94	119.73	125.11
47	SI	501	GTP	C5-C6-N1	2.94	119.67	114.07
49	PL	501	GDP	C8-N7-C5	2.94	107.55	102.55
49	ID	501	GDP	C8-N7-C5	2.94	107.55	102.55
49	UL	501	GDP	C8-N7-C5	2.94	107.55	102.55
47	NM	501	GTP	C5-C6-N1	2.93	119.67	114.07
47	RA	501	GTP	C2-N1-C6	-2.93	119.74	125.11
47	VI	501	GTP	C5-C6-N1	2.93	119.67	114.07
47	CM	501	GTP	C5-C6-N1	2.93	119.67	114.07
47	FC	501	GTP	C2-N1-C6	-2.93	119.74	125.11
47	OI	501	GTP	C5-C6-N1	2.93	119.67	114.07
47	RG	501	GTP	C5-C6-N1	2.93	119.66	114.07
49	KJ	501	GDP	C8-N7-C5	2.93	107.54	102.55
47	DG	501	GTP	C5-C6-N1	2.93	119.66	114.07
47	RA	501	GTP	C5-C6-N1	2.93	119.66	114.07
47	NE	501	GTP	C2-N1-C6	-2.93	119.75	125.11
49	IL	501	GDP	C8-N7-C5	2.93	107.53	102.55
47	EC	501	GTP	C5-C6-N1	2.93	119.65	114.07
47	NM	501	GTP	C2-N1-C6	-2.93	119.75	125.11
47	JM	501	GTP	C5-C6-N1	2.92	119.65	114.07
47	OI	501	GTP	C2-N1-C6	-2.92	119.76	125.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	FK	501	GTP	C2-N1-C6	-2.92	119.76	125.11
49	CL	501	GDP	C8-N7-C5	2.92	107.53	102.55
49	BJ	501	GDP	C8-N7-C5	2.92	107.53	102.55
47	DM	501	GTP	C2-N1-C6	-2.92	119.76	125.11
47	FM	501	GTP	C5-C6-N1	2.92	119.64	114.07
47	PA	501	GTP	C2-N1-C6	-2.92	119.76	125.11
47	QI	501	GTP	C5-C6-N1	2.92	119.64	114.07
47	NC	501	GTP	C2-N1-C6	-2.92	119.76	125.11
47	SI	501	GTP	C2-N1-C6	-2.92	119.76	125.11
47	UG	501	GTP	C5-C6-N1	2.92	119.64	114.07
47	SK	501	GTP	C5-C6-N1	2.92	119.64	114.07
47	BE	501	GTP	C5-C6-N1	2.92	119.64	114.07
47	TK	501	GTP	C2-N1-C6	-2.92	119.77	125.11
49	ON	501	GDP	C8-N7-C5	2.92	107.52	102.55
49	WH	501	GDP	C8-N7-C5	2.92	107.52	102.55
47	EA	501	GTP	C2-N1-C6	-2.92	119.77	125.11
49	PN	502	GDP	C8-N7-C5	2.92	107.51	102.55
47	TI	501	GTP	C5-C6-N1	2.92	119.63	114.07
47	TM	501	GTP	C5-C6-N1	2.91	119.63	114.07
47	QA	501	GTP	C2-N1-C6	-2.91	119.78	125.11
47	JI	501	GTP	C5-C6-N1	2.91	119.63	114.07
49	HJ	501	GDP	C8-N7-C5	2.91	107.51	102.55
47	NA	501	GTP	C2-N1-C6	-2.91	119.78	125.11
47	TA	501	GTP	C5-C6-N1	2.91	119.62	114.07
47	TE	501	GTP	C5-C6-N1	2.91	119.62	114.07
49	KF	501	GDP	C8-N7-C5	2.91	107.50	102.55
49	HH	501	GDP	C8-N7-C5	2.91	107.50	102.55
49	UH	501	GDP	C8-N7-C5	2.91	107.50	102.55
47	TA	501	GTP	C2-N1-C6	-2.91	119.79	125.11
49	BF	501	GDP	C8-N7-C5	2.91	107.50	102.55
49	OH	501	GDP	C8-N7-C5	2.91	107.50	102.55
47	SM	501	GTP	C2-N1-C6	-2.91	119.79	125.11
49	JD	501	GDP	C8-N7-C5	2.91	107.50	102.55
47	SA	501	GTP	C2-N1-C6	-2.91	119.79	125.11
47	FC	501	GTP	C5-C6-N1	2.91	119.62	114.07
47	EG	501	GTP	C2-N1-C6	-2.91	119.79	125.11
47	TG	501	GTP	C2-N1-C6	-2.91	119.79	125.11
47	OK	501	GTP	C5-C6-N1	2.91	119.61	114.07
47	QA	501	GTP	C5-C6-N1	2.90	119.61	114.07
47	TM	501	GTP	C2-N1-C6	-2.90	119.80	125.11
49	CD	501	GDP	C8-N7-C5	2.90	107.49	102.55
49	OL	501	GDP	C8-N7-C5	2.90	107.49	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	PF	501	GDP	C8-N7-C5	2.90	107.49	102.55
47	HM	501	GTP	C2-N1-C6	-2.90	119.80	125.11
47	TE	501	GTP	C2-N1-C6	-2.90	119.80	125.11
47	VM	501	GTP	C5-C6-N1	2.90	119.61	114.07
49	MD	501	GDP	C8-N7-C5	2.90	107.49	102.55
47	FM	501	GTP	C2-N1-C6	-2.90	119.80	125.11
47	SE	501	GTP	C2-N1-C6	-2.90	119.80	125.11
49	VD	501	GDP	C8-N7-C5	2.90	107.48	102.55
47	TI	501	GTP	C2-N1-C6	-2.90	119.80	125.11
47	SA	501	GTP	C5-C6-N1	2.90	119.60	114.07
49	QD	501	GDP	C8-N7-C5	2.90	107.48	102.55
47	FK	501	GTP	C5-C6-N1	2.90	119.60	114.07
47	SG	501	GTP	C2-N1-C6	-2.90	119.81	125.11
47	VM	501	GTP	C2-N1-C6	-2.90	119.81	125.11
47	EA	501	GTP	C5-C6-N1	2.90	119.60	114.07
47	JA	501	GTP	C5-C6-N1	2.90	119.60	114.07
47	UA	501	GTP	C5-C6-N1	2.90	119.59	114.07
49	VH	501	GDP	C8-N7-C5	2.89	107.48	102.55
49	UD	501	GDP	C8-N7-C5	2.89	107.48	102.55
47	UA	501	GTP	C2-N1-C6	-2.89	119.81	125.11
49	VJ	501	GDP	C8-N7-C5	2.89	107.47	102.55
47	EC	501	GTP	C2-N1-C6	-2.89	119.82	125.11
49	BL	501	GDP	C8-N7-C5	2.89	107.47	102.55
49	BN	501	GDP	C8-N7-C5	2.89	107.47	102.55
49	WN	501	GDP	C8-N7-C5	2.89	107.47	102.55
49	CN	501	GDP	C8-N7-C5	2.89	107.46	102.55
49	PH	501	GDP	C8-N7-C5	2.89	107.46	102.55
47	DA	501	GTP	C2-N1-C6	-2.89	119.83	125.11
47	EE	501	GTP	C2-N1-C6	-2.88	119.83	125.11
47	NA	501	GTP	C5-C6-N1	2.88	119.57	114.07
49	UJ	501	GDP	C8-N7-C5	2.88	107.46	102.55
47	GM	501	GTP	C5-C6-N1	2.88	119.57	114.07
49	IF	501	GDP	C8-N7-C5	2.88	107.45	102.55
49	JH	501	GDP	C8-N7-C5	2.88	107.45	102.55
49	HB	501	GDP	C8-N7-C5	2.88	107.45	102.55
49	UN	501	GDP	C8-N7-C5	2.88	107.45	102.55
49	WB	501	GDP	C8-N7-C5	2.88	107.45	102.55
49	NB	501	GDP	C8-N7-C5	2.88	107.45	102.55
49	SF	501	GDP	C8-N7-C5	2.88	107.44	102.55
49	FB	501	GDP	C8-N7-C5	2.87	107.44	102.55
49	VB	501	GDP	C8-N7-C5	2.87	107.44	102.55
49	UF	501	GDP	C8-N7-C5	2.87	107.44	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	JJ	501	GDP	C8-N7-C5	2.87	107.44	102.55
47	EM	501	GTP	C2-N1-C6	-2.87	119.85	125.11
49	GB	502	GDP	C8-N7-C5	2.87	107.44	102.55
47	SK	501	GTP	C2-N1-C6	-2.87	119.86	125.11
47	PA	501	GTP	C5-C6-N1	2.87	119.54	114.07
49	SD	501	GDP	C8-N7-C5	2.87	107.43	102.55
49	TJ	501	GDP	C8-N7-C5	2.87	107.43	102.55
49	EB	501	GDP	C8-N7-C5	2.87	107.43	102.55
49	WF	501	GDP	C8-N7-C5	2.87	107.43	102.55
49	ND	502	GDP	C8-N7-C5	2.87	107.43	102.55
49	RN	501	GDP	C8-N7-C5	2.87	107.43	102.55
49	FD	501	GDP	C8-N7-C5	2.87	107.43	102.55
49	LB	501	GDP	C8-N7-C5	2.87	107.43	102.55
49	NN	501	GDP	C8-N7-C5	2.87	107.43	102.55
49	KD	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	DF	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	DL	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	HD	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	VF	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	LL	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	BB	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	EL	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	JF	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	QN	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	FL	502	GDP	C8-N7-C5	2.86	107.42	102.55
47	SC	501	GTP	C5-C6-N1	2.86	119.53	114.07
49	DB	501	GDP	C8-N7-C5	2.86	107.42	102.55
49	GJ	501	GDP	C8-N7-C5	2.86	107.42	102.55
47	DA	501	GTP	C5-C6-N1	2.86	119.52	114.07
47	GM	501	GTP	C2-N1-C6	-2.86	119.88	125.11
49	DN	501	GDP	C8-N7-C5	2.86	107.41	102.55
47	EM	501	GTP	C5-C6-N1	2.85	119.52	114.07
49	NL	501	GDP	C8-N7-C5	2.85	107.41	102.55
49	SN	501	GDP	C8-N7-C5	2.85	107.41	102.55
49	HN	501	GDP	C8-N7-C5	2.85	107.41	102.55
47	SC	501	GTP	C2-N1-C6	-2.85	119.89	125.11
49	VL	501	GDP	C8-N7-C5	2.85	107.40	102.55
49	CH	501	GDP	C8-N7-C5	2.85	107.40	102.55
49	DJ	501	GDP	C8-N7-C5	2.85	107.40	102.55
49	NF	501	GDP	C8-N7-C5	2.85	107.40	102.55
49	LJ	501	GDP	C8-N7-C5	2.85	107.40	102.55
49	DH	501	GDP	C8-N7-C5	2.85	107.39	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	HF	501	GDP	C8-N7-C5	2.85	107.39	102.55
49	EH	501	GDP	C8-N7-C5	2.85	107.39	102.55
49	AL	501	GDP	C8-N7-C5	2.85	107.39	102.55
49	MJ	501	GDP	C8-N7-C5	2.85	107.39	102.55
49	TL	501	GDP	C8-N7-C5	2.85	107.39	102.55
49	SH	501	GDP	C8-N7-C5	2.84	107.39	102.55
49	OF	502	GDP	C8-N7-C5	2.84	107.39	102.55
49	PB	501	GDP	C8-N7-C5	2.84	107.39	102.55
49	AN	501	GDP	C8-N7-C5	2.84	107.39	102.55
49	OJ	501	GDP	C8-N7-C5	2.84	107.39	102.55
49	WL	501	GDP	C8-N7-C5	2.84	107.39	102.55
49	LF	501	GDP	C8-N7-C5	2.84	107.38	102.55
49	IN	501	GDP	C8-N7-C5	2.84	107.38	102.55
49	JL	501	GDP	C8-N7-C5	2.84	107.38	102.55
49	LH	501	GDP	C8-N7-C5	2.84	107.38	102.55
49	QH	501	GDP	C8-N7-C5	2.84	107.38	102.55
49	SB	501	GDP	C8-N7-C5	2.84	107.38	102.55
49	NH	501	GDP	C8-N7-C5	2.84	107.38	102.55
49	TN	501	GDP	C8-N7-C5	2.84	107.38	102.55
49	UB	501	GDP	C8-N7-C5	2.83	107.37	102.55
49	MF	501	GDP	C8-N7-C5	2.83	107.37	102.55
49	AD	501	GDP	C8-N7-C5	2.83	107.37	102.55
49	AH	501	GDP	C8-N7-C5	2.83	107.37	102.55
49	AF	501	GDP	C8-N7-C5	2.83	107.37	102.55
49	SL	501	GDP	C8-N7-C5	2.83	107.37	102.55
49	LD	501	GDP	C8-N7-C5	2.83	107.37	102.55
49	OB	501	GDP	C8-N7-C5	2.83	107.37	102.55
49	GD	501	GDP	C8-N7-C5	2.83	107.37	102.55
49	RL	501	GDP	C8-N7-C5	2.83	107.36	102.55
49	WD	501	GDP	C8-N7-C5	2.83	107.36	102.55
49	WJ	501	GDP	C8-N7-C5	2.83	107.36	102.55
49	JN	501	GDP	C8-N7-C5	2.82	107.36	102.55
49	LN	501	GDP	C8-N7-C5	2.82	107.36	102.55
49	BD	501	GDP	C8-N7-C5	2.82	107.35	102.55
49	PD	502	GDP	C8-N7-C5	2.82	107.35	102.55
49	IH	501	GDP	C8-N7-C5	2.82	107.35	102.55
49	NJ	501	GDP	C8-N7-C5	2.82	107.35	102.55
49	IB	501	GDP	C8-N7-C5	2.82	107.35	102.55
49	CF	501	GDP	C8-N7-C5	2.82	107.35	102.55
49	GF	501	GDP	C8-N7-C5	2.82	107.34	102.55
49	TB	501	GDP	C8-N7-C5	2.81	107.34	102.55
49	MB	501	GDP	C8-N7-C5	2.81	107.34	102.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	GL	502	GDP	C8-N7-C5	2.81	107.33	102.55
49	QL	501	GDP	C8-N7-C5	2.81	107.33	102.55
49	QB	501	GDP	C8-N7-C5	2.81	107.33	102.55
49	QJ	501	GDP	C8-N7-C5	2.81	107.33	102.55
49	GN	502	GDP	C8-N7-C5	2.81	107.33	102.55
49	KL	501	GDP	C8-N7-C5	2.81	107.33	102.55
49	FJ	501	GDP	C8-N7-C5	2.80	107.32	102.55
49	RH	501	GDP	C8-N7-C5	2.80	107.32	102.55
49	KN	501	GDP	C8-N7-C5	2.80	107.32	102.55
49	TD	501	GDP	C8-N7-C5	2.80	107.32	102.55
49	RJ	501	GDP	C8-N7-C5	2.80	107.31	102.55
49	MH	501	GDP	C8-N7-C5	2.80	107.31	102.55
49	RD	501	GDP	C8-N7-C5	2.79	107.30	102.55
49	JB	501	GDP	C8-N7-C5	2.79	107.30	102.55
49	ML	501	GDP	C8-N7-C5	2.79	107.30	102.55
49	GH	501	GDP	C8-N7-C5	2.79	107.30	102.55
49	RF	501	GDP	C8-N7-C5	2.79	107.30	102.55
49	FH	501	GDP	C8-N7-C5	2.79	107.29	102.55
49	VN	501	GDP	C8-N7-C5	2.79	107.29	102.55
49	EN	501	GDP	C8-N7-C5	2.78	107.29	102.55
49	QF	501	GDP	C8-N7-C5	2.78	107.29	102.55
49	CB	501	GDP	C8-N7-C5	2.78	107.29	102.55
49	FF	501	GDP	C8-N7-C5	2.78	107.28	102.55
49	ED	501	GDP	C8-N7-C5	2.78	107.28	102.55
49	FN	501	GDP	C8-N7-C5	2.78	107.28	102.55
49	TF	501	GDP	C8-N7-C5	2.77	107.27	102.55
49	TH	501	GDP	C8-N7-C5	2.77	107.26	102.55
49	DD	501	GDP	C8-N7-C5	2.77	107.26	102.55
49	EJ	501	GDP	C8-N7-C5	2.76	107.25	102.55
49	IN	501	GDP	C4'-O4'-C1'	2.76	112.45	109.92
49	EF	501	GDP	C8-N7-C5	2.75	107.23	102.55
49	AJ	501	GDP	C8-N7-C5	2.74	107.22	102.55
49	AJ	501	GDP	C4'-O4'-C1'	2.74	112.44	109.92
49	MN	501	GDP	C8-N7-C5	2.74	107.21	102.55
47	RM	501	GTP	C2-N1-C6	-2.72	120.12	125.11
49	AB	501	GDP	C8-N7-C5	2.71	107.17	102.55
49	SJ	501	GDP	C8-N7-C5	2.71	107.16	102.55
49	AJ	501	GDP	C2'-C3'-C4'	2.46	107.37	102.61
49	BH	501	GDP	C4'-O4'-C1'	2.46	112.18	109.92
49	HD	501	GDP	C4'-O4'-C1'	2.42	112.14	109.92
49	SH	501	GDP	C4'-O4'-C1'	2.39	112.12	109.92
49	FD	501	GDP	C4'-O4'-C1'	2.36	112.09	109.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	SB	501	GDP	C4'-O4'-C1'	2.35	112.08	109.92
49	KH	501	GDP	C5-C6-N1	2.34	118.53	114.07
47	LE	501	GTP	O6-C6-C5	-2.31	119.73	124.32
49	SF	501	GDP	C4'-O4'-C1'	2.31	112.04	109.92
47	NI	501	GTP	O6-C6-C5	-2.31	119.74	124.32
49	MB	501	GDP	C4'-O4'-C1'	2.31	112.04	109.92
47	AK	501	GTP	O6-C6-C5	-2.30	119.77	124.32
47	NK	501	GTP	O6-C6-C5	-2.28	119.79	124.32
49	AJ	501	GDP	C5-C6-N1	2.28	118.42	114.07
47	LK	501	GTP	O6-C6-C5	-2.28	119.80	124.32
49	RB	501	GDP	C5-C6-N1	2.28	118.41	114.07
47	VE	501	GTP	O6-C6-C5	-2.27	119.81	124.32
49	SD	501	GDP	C4'-O4'-C1'	2.27	112.00	109.92
47	NE	501	GTP	O6-C6-C5	-2.27	119.82	124.32
49	GH	501	GDP	C5-C6-N1	2.26	118.38	114.07
47	KE	501	GTP	O6-C6-C5	-2.26	119.85	124.32
47	QG	501	GTP	O6-C6-C5	-2.25	119.86	124.32
49	EN	501	GDP	C5-C6-N1	2.23	118.33	114.07
47	EE	501	GTP	O6-C6-C5	-2.23	119.90	124.32
47	LI	501	GTP	O6-C6-C5	-2.22	119.91	124.32
47	AA	501	GTP	O6-C6-C5	-2.22	119.92	124.32
47	RK	501	GTP	O6-C6-C5	-2.21	119.93	124.32
47	NG	501	GTP	O6-C6-C5	-2.21	119.94	124.32
49	FN	501	GDP	C5-C6-N1	2.21	118.28	114.07
47	LA	501	GTP	O6-C6-C5	-2.21	119.94	124.32
47	AI	501	GTP	O6-C6-C5	-2.20	119.95	124.32
47	AG	501	GTP	O6-C6-C5	-2.20	119.97	124.32
47	OM	501	GTP	O6-C6-C5	-2.20	119.97	124.32
47	QK	501	GTP	O6-C6-C5	-2.19	119.98	124.32
49	FJ	501	GDP	C5-C6-N1	2.19	118.24	114.07
47	SI	501	GTP	O6-C6-C5	-2.18	119.99	124.32
47	IE	501	GTP	O6-C6-C5	-2.18	119.99	124.32
47	RC	501	GTP	O6-C6-C5	-2.18	120.00	124.32
49	MJ	501	GDP	C4'-O4'-C1'	2.18	111.92	109.92
47	QA	501	GTP	O6-C6-C5	-2.17	120.02	124.32
47	AE	501	GTP	O6-C6-C5	-2.17	120.03	124.32
47	IG	501	GTP	O6-C6-C5	-2.17	120.03	124.32
47	SG	501	GTP	O6-C6-C5	-2.16	120.03	124.32
49	CH	501	GDP	C5-C6-N1	2.16	118.19	114.07
47	CI	501	GTP	O2B-PB-O3B	2.16	113.11	107.27
47	MM	501	GTP	O6-C6-C5	-2.16	120.04	124.32
47	GE	501	GTP	O6-C6-C5	-2.16	120.05	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	ND	502	GDP	C5-C6-N1	2.16	118.18	114.07
49	QF	501	GDP	C5-C6-N1	2.15	118.18	114.07
49	QJ	501	GDP	C5-C6-N1	2.15	118.18	114.07
47	FG	501	GTP	O6-C6-C5	-2.15	120.05	124.32
47	JE	501	GTP	O6-C6-C5	-2.15	120.06	124.32
47	NM	501	GTP	O6-C6-C5	-2.15	120.06	124.32
49	EH	501	GDP	O2B-PB-O3A	2.15	111.84	104.64
47	NC	501	GTP	O6-C6-C5	-2.15	120.06	124.32
49	ID	501	GDP	C5-C6-N1	2.15	118.16	114.07
47	KC	501	GTP	O6-C6-C5	-2.15	120.07	124.32
47	IK	501	GTP	O6-C6-C5	-2.14	120.07	124.32
49	KF	501	GDP	O4'-C1'-N9	2.14	111.59	108.75
47	RG	501	GTP	O6-C6-C5	-2.14	120.08	124.32
49	AB	501	GDP	C5-C6-N1	2.14	118.15	114.07
47	BE	501	GTP	O6-C6-C5	-2.14	120.08	124.32
47	KG	501	GTP	O6-C6-C5	-2.13	120.09	124.32
49	SJ	501	GDP	C2'-C3'-C4'	2.13	106.73	102.61
49	DD	501	GDP	C5-C6-N1	2.13	118.14	114.07
47	AC	501	GTP	O6-C6-C5	-2.13	120.09	124.32
49	BN	501	GDP	C5-C6-N1	2.13	118.14	114.07
49	LD	501	GDP	C5-C6-N1	2.13	118.14	114.07
47	ME	501	GTP	O6-C6-C5	-2.13	120.10	124.32
49	WB	501	GDP	C5-C6-N1	2.13	118.14	114.07
49	VD	501	GDP	C5-C6-N1	2.13	118.13	114.07
49	NF	501	GDP	C4'-O4'-C1'	2.13	111.88	109.92
49	AB	501	GDP	O6-C6-C5	-2.13	120.10	124.32
47	LM	501	GTP	O6-C6-C5	-2.13	120.10	124.32
49	ED	501	GDP	C5-C6-N1	2.13	118.13	114.07
47	RI	501	GTP	O6-C6-C5	-2.13	120.10	124.32
47	GG	501	GTP	O6-C6-C5	-2.13	120.10	124.32
47	FI	501	GTP	O6-C6-C5	-2.13	120.10	124.32
47	OF	501	GTP	O6-C6-C5	-2.13	120.10	124.32
49	EF	501	GDP	C5-C6-N1	2.12	118.12	114.07
47	EI	501	GTP	O6-C6-C5	-2.12	120.11	124.32
47	JC	501	GTP	O6-C6-C5	-2.12	120.11	124.32
47	FC	501	GTP	O6-C6-C5	-2.12	120.11	124.32
47	TA	501	GTP	O6-C6-C5	-2.12	120.11	124.32
49	WH	501	GDP	C5-C6-N1	2.12	118.12	114.07
49	WN	501	GDP	C5-C6-N1	2.12	118.12	114.07
47	MI	501	GTP	O6-C6-C5	-2.12	120.11	124.32
49	PN	502	GDP	C5-C6-N1	2.12	118.12	114.07
49	NJ	501	GDP	C5-C6-N1	2.12	118.11	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	BI	501	GTP	O6-C6-C5	-2.12	120.12	124.32
49	TB	501	GDP	C5-C6-N1	2.12	118.11	114.07
47	UA	501	GTP	O6-C6-C5	-2.12	120.12	124.32
49	SJ	501	GDP	C5-C6-N1	2.12	118.11	114.07
47	SC	501	GTP	O6-C6-C5	-2.12	120.12	124.32
47	GC	501	GTP	O6-C6-C5	-2.12	120.12	124.32
49	WF	501	GDP	C5-C6-N1	2.12	118.11	114.07
49	LL	501	GDP	C5-C6-N1	2.12	118.11	114.07
49	LN	501	GDP	C5-C6-N1	2.12	118.11	114.07
47	GA	501	GTP	O6-C6-C5	-2.11	120.13	124.32
47	KI	501	GTP	O6-C6-C5	-2.11	120.13	124.32
47	LC	501	GTP	O6-C6-C5	-2.11	120.13	124.32
49	WD	501	GDP	C5-C6-N1	2.11	118.10	114.07
47	EG	501	GTP	O6-C6-C5	-2.11	120.13	124.32
49	DJ	501	GDP	C5-C6-N1	2.11	118.10	114.07
47	BK	501	GTP	O6-C6-C5	-2.11	120.14	124.32
49	IN	501	GDP	C5-C6-N1	2.11	118.09	114.07
49	AD	501	GDP	C5-C6-N1	2.11	118.09	114.07
49	BH	501	GDP	C2'-C3'-C4'	2.11	106.68	102.61
47	OC	501	GTP	O4'-C1'-N9	2.11	111.54	108.75
49	MD	501	GDP	C5-C6-N1	2.11	118.09	114.07
49	KJ	501	GDP	C5-C6-N1	2.10	118.08	114.07
47	EC	501	GTP	O6-C6-C5	-2.10	120.15	124.32
47	HE	501	GTP	O6-C6-C5	-2.10	120.15	124.32
49	LJ	501	GDP	C4'-O4'-C1'	2.10	111.85	109.92
47	DC	501	GTP	O6-C6-C5	-2.10	120.16	124.32
49	AL	501	GDP	C5-C6-N1	2.10	118.08	114.07
49	CL	501	GDP	C5-C6-N1	2.10	118.08	114.07
49	MJ	501	GDP	C2'-C3'-C4'	2.10	106.66	102.61
49	GJ	501	GDP	C5-C6-N1	2.10	118.07	114.07
49	MH	501	GDP	C5-C6-N1	2.10	118.07	114.07
47	TG	501	GTP	O6-C6-C5	-2.10	120.17	124.32
49	NN	501	GDP	C5-C6-N1	2.09	118.06	114.07
49	LH	501	GDP	C5-C6-N1	2.09	118.06	114.07
49	NF	501	GDP	C5-C6-N1	2.09	118.06	114.07
49	HN	501	GDP	C5-C6-N1	2.09	118.06	114.07
49	NL	501	GDP	C5-C6-N1	2.09	118.06	114.07
49	VH	501	GDP	C5-C6-N1	2.09	118.06	114.07
49	AF	501	GDP	C5-C6-N1	2.09	118.06	114.07
49	RH	501	GDP	C5-C6-N1	2.09	118.06	114.07
49	NB	501	GDP	C5-C6-N1	2.09	118.06	114.07
47	DG	501	GTP	O6-C6-C5	-2.09	120.18	124.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	FD	501	GDP	C5-C6-N1	2.09	118.05	114.07
47	MA	501	GTP	O6-C6-C5	-2.09	120.18	124.32
49	CD	501	GDP	C5-C6-N1	2.09	118.05	114.07
47	KA	501	GTP	O6-C6-C5	-2.09	120.18	124.32
49	HH	501	GDP	C5-C6-N1	2.09	118.05	114.07
47	MK	501	GTP	O6-C6-C5	-2.09	120.19	124.32
49	AN	501	GDP	C5-C6-N1	2.08	118.05	114.07
47	CK	501	GTP	O6-C6-C5	-2.08	120.19	124.32
47	PK	501	GTP	O4'-C1'-N9	2.08	111.51	108.75
49	OH	501	GDP	C5-C6-N1	2.08	118.05	114.07
49	UN	501	GDP	C5-C6-N1	2.08	118.04	114.07
49	GD	501	GDP	C5-C6-N1	2.08	118.04	114.07
49	NH	501	GDP	C5-C6-N1	2.08	118.04	114.07
49	HL	501	GDP	C5-C6-N1	2.08	118.04	114.07
47	OA	501	GTP	O6-C6-C5	-2.08	120.19	124.32
47	AM	501	GTP	O6-C6-C5	-2.08	120.20	124.32
47	BC	502	GTP	O6-C6-C5	-2.08	120.20	124.32
47	EA	501	GTP	O6-C6-C5	-2.08	120.20	124.32
49	IF	501	GDP	C5-C6-N1	2.08	118.03	114.07
49	RF	501	GDP	C5-C6-N1	2.08	118.03	114.07
49	KD	501	GDP	C5-C6-N1	2.08	118.03	114.07
47	II	501	GTP	O6-C6-C5	-2.07	120.21	124.32
49	BJ	501	GDP	C5-C6-N1	2.07	118.03	114.07
49	PD	502	GDP	C5-C6-N1	2.07	118.02	114.07
49	ON	501	GDP	C5-C6-N1	2.07	118.02	114.07
47	SA	501	GTP	O6-C6-C5	-2.07	120.21	124.32
49	SL	501	GDP	C5-C6-N1	2.07	118.02	114.07
49	JH	501	GDP	C5-C6-N1	2.07	118.02	114.07
47	DA	501	GTP	O6-C6-C5	-2.07	120.22	124.32
47	MC	501	GTP	O6-C6-C5	-2.07	120.22	124.32
47	MG	501	GTP	O6-C6-C5	-2.07	120.22	124.32
49	IL	501	GDP	C5-C6-N1	2.07	118.01	114.07
49	EB	501	GDP	C5-C6-N1	2.07	118.01	114.07
47	GK	501	GTP	O6-C6-C5	-2.07	120.22	124.32
47	VK	501	GTP	O6-C6-C5	-2.07	120.22	124.32
49	DH	501	GDP	C5-C6-N1	2.07	118.01	114.07
49	OF	502	GDP	C5-C6-N1	2.07	118.01	114.07
47	PK	501	GTP	O6-C6-C5	-2.07	120.23	124.32
49	AH	501	GDP	C5-C6-N1	2.07	118.01	114.07
49	BH	501	GDP	C5-C6-N1	2.07	118.01	114.07
49	BL	501	GDP	C5-C6-N1	2.07	118.01	114.07
49	DB	501	GDP	C5-C6-N1	2.07	118.01	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	EJ	501	GDP	C5-C6-N1	2.07	118.01	114.07
49	DL	501	GDP	C5-C6-N1	2.06	118.01	114.07
47	GM	501	GTP	O6-C6-C5	-2.06	120.23	124.32
47	RA	501	GTP	O6-C6-C5	-2.06	120.23	124.32
49	LJ	501	GDP	C5-C6-N1	2.06	118.01	114.07
47	WC	501	GTP	O6-C6-C5	-2.06	120.23	124.32
49	OJ	501	GDP	C5-C6-N1	2.06	118.00	114.07
47	FM	501	GTP	O6-C6-C5	-2.06	120.23	124.32
49	JN	501	GDP	C5-C6-N1	2.06	118.00	114.07
49	FL	502	GDP	C5-C6-N1	2.06	118.00	114.07
47	KK	501	GTP	O6-C6-C5	-2.06	120.24	124.32
47	UI	501	GTP	O6-C6-C5	-2.06	120.24	124.32
49	KB	501	GDP	C5-C6-N1	2.06	118.00	114.07
49	LB	501	GDP	C5-C6-N1	2.06	118.00	114.07
49	ML	501	GDP	C4'-O4'-C1'	2.06	111.81	109.92
49	KD	501	GDP	C2'-C3'-C4'	2.06	106.58	102.61
49	JD	501	GDP	C5-C6-N1	2.06	117.99	114.07
49	TN	501	GDP	C5-C6-N1	2.06	117.99	114.07
47	HI	501	GTP	O6-C6-C5	-2.06	120.24	124.32
47	DE	501	GTP	O6-C6-C5	-2.06	120.25	124.32
49	CJ	501	GDP	C5-C6-N1	2.05	117.99	114.07
49	FH	501	GDP	C5-C6-N1	2.05	117.99	114.07
47	LG	501	GTP	O6-C6-C5	-2.05	120.25	124.32
47	EK	501	GTP	O6-C6-C5	-2.05	120.25	124.32
47	SE	501	GTP	O6-C6-C5	-2.05	120.25	124.32
49	VL	501	GDP	C5-C6-N1	2.05	117.99	114.07
49	UB	501	GDP	C5-C6-N1	2.05	117.98	114.07
49	PB	501	GDP	C5-C6-N1	2.05	117.98	114.07
49	DN	501	GDP	C5-C6-N1	2.05	117.98	114.07
49	PL	501	GDP	C5-C6-N1	2.05	117.98	114.07
49	TH	501	GDP	C5-C6-N1	2.05	117.98	114.07
47	UC	501	GTP	O6-C6-C5	-2.05	120.25	124.32
49	CN	501	GDP	C5-C6-N1	2.05	117.98	114.07
49	MB	501	GDP	C5-C6-N1	2.05	117.98	114.07
47	CI	501	GTP	O6-C6-C5	-2.05	120.26	124.32
47	NA	501	GTP	O6-C6-C5	-2.05	120.26	124.32
49	TL	501	GDP	C5-C6-N1	2.05	117.98	114.07
49	GB	502	GDP	C5-C6-N1	2.05	117.98	114.07
49	HD	501	GDP	C5-C6-N1	2.05	117.98	114.07
49	BB	501	GDP	C5-C6-N1	2.05	117.98	114.07
49	MJ	501	GDP	C5-C6-N1	2.05	117.98	114.07
49	MN	501	GDP	C5-C6-N1	2.05	117.98	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	QI	501	GTP	O6-C6-C5	-2.05	120.26	124.32
49	SJ	501	GDP	C4'-O4'-C1'	2.05	111.80	109.92
47	UG	501	GTP	O6-C6-C5	-2.05	120.26	124.32
49	BF	501	GDP	C5-C6-N1	2.05	117.97	114.07
49	EH	501	GDP	C5-C6-N1	2.05	117.97	114.07
49	SN	501	GDP	C5-C6-N1	2.05	117.97	114.07
47	HA	501	GTP	O6-C6-C5	-2.05	120.26	124.32
47	OC	501	GTP	O6-C6-C5	-2.05	120.26	124.32
47	RE	501	GTP	O6-C6-C5	-2.05	120.27	124.32
47	FA	501	GTP	O6-C6-C5	-2.05	120.27	124.32
47	VM	501	GTP	O6-C6-C5	-2.04	120.27	124.32
49	SF	501	GDP	C5-C6-N1	2.04	117.97	114.07
49	SH	501	GDP	C2'-C3'-C4'	2.04	106.56	102.61
49	GL	502	GDP	C5-C6-N1	2.04	117.97	114.07
49	HB	501	GDP	C5-C6-N1	2.04	117.97	114.07
49	RD	501	GDP	C5-C6-N1	2.04	117.96	114.07
47	CA	501	GTP	O6-C6-C5	-2.04	120.27	124.32
49	JF	501	GDP	C5-C6-N1	2.04	117.96	114.07
47	BG	501	GTP	O6-C6-C5	-2.04	120.28	124.32
49	UL	501	GDP	C5-C6-N1	2.04	117.96	114.07
49	GN	502	GDP	C5-C6-N1	2.04	117.96	114.07
47	FE	501	GTP	O6-C6-C5	-2.04	120.28	124.32
47	OG	501	GTP	O6-C6-C5	-2.04	120.28	124.32
49	DF	501	GDP	C5-C6-N1	2.04	117.96	114.07
49	QL	501	GDP	C5-C6-N1	2.04	117.96	114.07
49	AJ	501	GDP	O6-C6-C5	-2.04	120.28	124.32
47	HM	501	GTP	O6-C6-C5	-2.04	120.28	124.32
47	WG	501	GTP	O6-C6-C5	-2.04	120.28	124.32
49	QH	501	GDP	C5-C6-N1	2.04	117.95	114.07
49	RN	501	GDP	C5-C6-N1	2.04	117.95	114.07
49	TJ	501	GDP	C5-C6-N1	2.04	117.95	114.07
49	UD	501	GDP	C5-C6-N1	2.04	117.95	114.07
49	WL	501	GDP	C5-C6-N1	2.04	117.95	114.07
47	JG	501	GTP	O6-C6-C5	-2.03	120.29	124.32
47	TK	501	GTP	O6-C6-C5	-2.03	120.29	124.32
47	KM	501	GTP	O6-C6-C5	-2.03	120.29	124.32
49	PJ	501	GDP	C5-C6-N1	2.03	117.95	114.07
47	PA	501	GTP	O6-C6-C5	-2.03	120.29	124.32
49	KN	501	GDP	C5-C6-N1	2.03	117.95	114.07
49	IB	501	GDP	C5-C6-N1	2.03	117.94	114.07
47	QC	501	GTP	O6-C6-C5	-2.03	120.30	124.32
49	CB	501	GDP	C5-C6-N1	2.03	117.94	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
47	UK	501	GTP	O6-C6-C5	-2.03	120.30	124.32
49	KL	501	GDP	C5-C6-N1	2.03	117.94	114.07
49	QD	501	GDP	C5-C6-N1	2.03	117.94	114.07
47	HG	501	GTP	O6-C6-C5	-2.03	120.30	124.32
47	TE	501	GTP	O6-C6-C5	-2.03	120.30	124.32
47	UE	501	GTP	O6-C6-C5	-2.03	120.30	124.32
49	QB	501	GDP	C5-C6-N1	2.03	117.94	114.07
49	LF	501	GDP	C2'-C3'-C4'	2.03	106.52	102.61
49	LF	501	GDP	C5-C6-N1	2.03	117.93	114.07
49	VB	501	GDP	C5-C6-N1	2.03	117.93	114.07
47	CM	501	GTP	O6-C6-C5	-2.02	120.31	124.32
49	JJ	501	GDP	C5-C6-N1	2.02	117.93	114.07
49	QN	501	GDP	C5-C6-N1	2.02	117.93	114.07
47	JM	501	GTP	O6-C6-C5	-2.02	120.31	124.32
47	IG	501	GTP	O2B-PB-O3B	2.02	112.74	107.27
47	DM	501	GTP	O6-C6-C5	-2.02	120.31	124.32
47	SM	501	GTP	O6-C6-C5	-2.02	120.31	124.32
47	TI	501	GTP	O6-C6-C5	-2.02	120.31	124.32
49	SD	501	GDP	C5-C6-N1	2.02	117.93	114.07
49	GF	501	GDP	C5-C6-N1	2.02	117.92	114.07
47	IA	501	GTP	O6-C6-C5	-2.02	120.31	124.32
49	ML	501	GDP	C5-C6-N1	2.02	117.92	114.07
49	UH	501	GDP	C5-C6-N1	2.02	117.92	114.07
49	MF	501	GDP	C5-C6-N1	2.02	117.92	114.07
49	TD	501	GDP	C5-C6-N1	2.02	117.92	114.07
49	UF	501	GDP	C5-C6-N1	2.02	117.92	114.07
47	SK	501	GTP	O6-C6-C5	-2.02	120.32	124.32
49	HF	501	GDP	C5-C6-N1	2.02	117.92	114.07
49	JL	501	GDP	C5-C6-N1	2.01	117.91	114.07
49	RL	501	GDP	C5-C6-N1	2.01	117.91	114.07
49	OL	501	GDP	C5-C6-N1	2.01	117.91	114.07
49	KH	501	GDP	C2'-C3'-C4'	2.01	106.49	102.61
49	WH	501	GDP	C2'-C3'-C4'	2.01	106.49	102.61
49	FB	501	GDP	C5-C6-N1	2.01	117.90	114.07
49	TF	501	GDP	C5-C6-N1	2.01	117.90	114.07
47	UM	501	GTP	O6-C6-C5	-2.01	120.34	124.32
47	QG	501	GTP	O3G-PG-O3B	2.01	111.37	104.64
49	KF	501	GDP	C5-C6-N1	2.01	117.90	114.07
47	DK	501	GTP	O6-C6-C5	-2.01	120.34	124.32
47	BM	501	GTP	O6-C6-C5	-2.01	120.34	124.32
47	VG	501	GTP	O6-C6-C5	-2.01	120.34	124.32
49	PH	501	GDP	C5-C6-N1	2.00	117.89	114.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	UJ	501	GDP	C5-C6-N1	2.00	117.89	114.07
49	VF	501	GDP	C5-C6-N1	2.00	117.89	114.07
49	PF	501	GDP	C5-C6-N1	2.00	117.89	114.07
47	IC	501	GTP	O6-C6-C5	-2.00	120.35	124.32

There are no chirality outliers.

All (1310) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
47	AA	501	GTP	C5'-O5'-PA-O3A
47	AA	501	GTP	C5'-O5'-PA-O2A
47	AC	501	GTP	C5'-O5'-PA-O3A
47	AC	501	GTP	C5'-O5'-PA-O1A
47	AC	501	GTP	C5'-O5'-PA-O2A
47	AE	501	GTP	PB-O3A-PA-O5'
47	AE	501	GTP	C5'-O5'-PA-O3A
47	AE	501	GTP	C5'-O5'-PA-O1A
47	AE	501	GTP	C5'-O5'-PA-O2A
47	AG	501	GTP	C5'-O5'-PA-O3A
47	AG	501	GTP	C5'-O5'-PA-O1A
47	AG	501	GTP	C5'-O5'-PA-O2A
47	AI	501	GTP	C5'-O5'-PA-O3A
47	AI	501	GTP	C5'-O5'-PA-O1A
47	AI	501	GTP	C5'-O5'-PA-O2A
47	AK	501	GTP	C5'-O5'-PA-O3A
47	AK	501	GTP	C5'-O5'-PA-O2A
47	AM	501	GTP	C5'-O5'-PA-O3A
47	AM	501	GTP	C5'-O5'-PA-O2A
47	BA	501	GTP	C5'-O5'-PA-O3A
47	BA	501	GTP	C5'-O5'-PA-O1A
47	BA	501	GTP	C5'-O5'-PA-O2A
47	BC	502	GTP	PB-O3A-PA-O5'
47	BC	502	GTP	C5'-O5'-PA-O3A
47	BC	502	GTP	C5'-O5'-PA-O1A
47	BC	502	GTP	C5'-O5'-PA-O2A
47	BE	501	GTP	PB-O3A-PA-O5'
47	BE	501	GTP	C5'-O5'-PA-O3A
47	BE	501	GTP	C5'-O5'-PA-O1A
47	BE	501	GTP	C5'-O5'-PA-O2A
47	BG	501	GTP	PB-O3A-PA-O5'
47	BG	501	GTP	C5'-O5'-PA-O3A
47	BG	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
47	BG	501	GTP	C5'-O5'-PA-O2A
47	BI	501	GTP	C5'-O5'-PA-O3A
47	BI	501	GTP	C5'-O5'-PA-O1A
47	BI	501	GTP	C5'-O5'-PA-O2A
47	BK	501	GTP	PB-O3A-PA-O5'
47	BK	501	GTP	C5'-O5'-PA-O3A
47	BK	501	GTP	C5'-O5'-PA-O1A
47	BK	501	GTP	C5'-O5'-PA-O2A
47	BM	501	GTP	C5'-O5'-PA-O3A
47	BM	501	GTP	C5'-O5'-PA-O1A
47	BM	501	GTP	C5'-O5'-PA-O2A
47	CA	501	GTP	C5'-O5'-PA-O3A
47	CA	501	GTP	C5'-O5'-PA-O2A
47	CC	501	GTP	C5'-O5'-PA-O3A
47	CC	501	GTP	C5'-O5'-PA-O2A
47	CG	501	GTP	PB-O3A-PA-O5'
47	CG	501	GTP	C5'-O5'-PA-O3A
47	CG	501	GTP	C5'-O5'-PA-O2A
47	CI	501	GTP	C5'-O5'-PA-O3A
47	CI	501	GTP	C5'-O5'-PA-O2A
47	CK	501	GTP	C5'-O5'-PA-O3A
47	CK	501	GTP	C5'-O5'-PA-O1A
47	CK	501	GTP	C5'-O5'-PA-O2A
47	CK	501	GTP	O4'-C4'-C5'-O5'
47	CM	501	GTP	C5'-O5'-PA-O3A
47	CM	501	GTP	C5'-O5'-PA-O1A
47	CM	501	GTP	C5'-O5'-PA-O2A
47	DA	501	GTP	C5'-O5'-PA-O3A
47	DA	501	GTP	C5'-O5'-PA-O1A
47	DA	501	GTP	C5'-O5'-PA-O2A
47	DE	501	GTP	C5'-O5'-PA-O3A
47	DE	501	GTP	C5'-O5'-PA-O2A
47	DG	501	GTP	C5'-O5'-PA-O3A
47	DG	501	GTP	C5'-O5'-PA-O1A
47	DG	501	GTP	C5'-O5'-PA-O2A
47	DI	501	GTP	C5'-O5'-PA-O3A
47	DI	501	GTP	C5'-O5'-PA-O1A
47	DI	501	GTP	C5'-O5'-PA-O2A
47	DK	501	GTP	C5'-O5'-PA-O3A
47	DM	501	GTP	C5'-O5'-PA-O3A
47	DM	501	GTP	C5'-O5'-PA-O1A
47	DM	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
47	EA	501	GTP	C5'-O5'-PA-O3A
47	EA	501	GTP	C5'-O5'-PA-O2A
47	EC	501	GTP	C5'-O5'-PA-O3A
47	EC	501	GTP	C5'-O5'-PA-O1A
47	EC	501	GTP	C5'-O5'-PA-O2A
47	EE	501	GTP	C5'-O5'-PA-O3A
47	EE	501	GTP	C5'-O5'-PA-O1A
47	EE	501	GTP	C5'-O5'-PA-O2A
47	EG	501	GTP	C5'-O5'-PA-O3A
47	EG	501	GTP	C5'-O5'-PA-O2A
47	EI	501	GTP	C5'-O5'-PA-O3A
47	EI	501	GTP	C5'-O5'-PA-O1A
47	EI	501	GTP	C5'-O5'-PA-O2A
47	EK	501	GTP	C5'-O5'-PA-O3A
47	EK	501	GTP	C5'-O5'-PA-O2A
47	EM	501	GTP	C5'-O5'-PA-O3A
47	EM	501	GTP	C5'-O5'-PA-O1A
47	EM	501	GTP	C5'-O5'-PA-O2A
47	FA	501	GTP	C5'-O5'-PA-O3A
47	FA	501	GTP	C5'-O5'-PA-O1A
47	FA	501	GTP	C5'-O5'-PA-O2A
47	FC	501	GTP	C5'-O5'-PA-O3A
47	FC	501	GTP	C5'-O5'-PA-O1A
47	FC	501	GTP	C5'-O5'-PA-O2A
47	FE	501	GTP	PB-O3A-PA-O5'
47	FE	501	GTP	C5'-O5'-PA-O3A
47	FE	501	GTP	C5'-O5'-PA-O1A
47	FE	501	GTP	C5'-O5'-PA-O2A
47	FG	501	GTP	C5'-O5'-PA-O3A
47	FG	501	GTP	C5'-O5'-PA-O1A
47	FG	501	GTP	C5'-O5'-PA-O2A
47	FI	501	GTP	C5'-O5'-PA-O3A
47	FI	501	GTP	C5'-O5'-PA-O1A
47	FI	501	GTP	C5'-O5'-PA-O2A
47	FK	501	GTP	PB-O3A-PA-O5'
47	FK	501	GTP	C5'-O5'-PA-O3A
47	FK	501	GTP	C5'-O5'-PA-O2A
47	FM	501	GTP	PB-O3A-PA-O5'
47	FM	501	GTP	C5'-O5'-PA-O3A
47	FM	501	GTP	C5'-O5'-PA-O2A
47	GA	501	GTP	C5'-O5'-PA-O3A
47	GA	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
47	GA	501	GTP	C5'-O5'-PA-O2A
47	GC	501	GTP	C5'-O5'-PA-O3A
47	GC	501	GTP	C5'-O5'-PA-O1A
47	GC	501	GTP	C5'-O5'-PA-O2A
47	GE	501	GTP	C5'-O5'-PA-O3A
47	GE	501	GTP	C5'-O5'-PA-O1A
47	GE	501	GTP	C5'-O5'-PA-O2A
47	GG	501	GTP	C5'-O5'-PA-O3A
47	GG	501	GTP	C5'-O5'-PA-O1A
47	GG	501	GTP	C5'-O5'-PA-O2A
47	GI	501	GTP	PB-O3A-PA-O5'
47	GI	501	GTP	C5'-O5'-PA-O3A
47	GI	501	GTP	C5'-O5'-PA-O1A
47	GI	501	GTP	C5'-O5'-PA-O2A
47	GK	501	GTP	C5'-O5'-PA-O3A
47	GK	501	GTP	C5'-O5'-PA-O2A
47	GM	501	GTP	C5'-O5'-PA-O3A
47	GM	501	GTP	C5'-O5'-PA-O1A
47	GM	501	GTP	C5'-O5'-PA-O2A
47	HA	501	GTP	C5'-O5'-PA-O3A
47	HA	501	GTP	C5'-O5'-PA-O1A
47	HA	501	GTP	C5'-O5'-PA-O2A
47	HC	501	GTP	C5'-O5'-PA-O3A
47	HC	501	GTP	C5'-O5'-PA-O1A
47	HC	501	GTP	C5'-O5'-PA-O2A
47	HE	501	GTP	PB-O3A-PA-O5'
47	HE	501	GTP	C5'-O5'-PA-O3A
47	HE	501	GTP	C5'-O5'-PA-O1A
47	HE	501	GTP	C5'-O5'-PA-O2A
47	HG	501	GTP	C5'-O5'-PA-O3A
47	HG	501	GTP	C5'-O5'-PA-O2A
47	HI	501	GTP	C5'-O5'-PA-O3A
47	HI	501	GTP	C5'-O5'-PA-O1A
47	HI	501	GTP	C5'-O5'-PA-O2A
47	HK	501	GTP	C5'-O5'-PA-O3A
47	HK	501	GTP	C5'-O5'-PA-O1A
47	HK	501	GTP	C5'-O5'-PA-O2A
47	HM	501	GTP	C5'-O5'-PA-O3A
47	HM	501	GTP	C5'-O5'-PA-O1A
47	HM	501	GTP	C5'-O5'-PA-O2A
47	IA	501	GTP	C5'-O5'-PA-O3A
47	IA	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
47	IA	501	GTP	C5'-O5'-PA-O2A
47	IC	501	GTP	PB-O3A-PA-O5'
47	IC	501	GTP	C5'-O5'-PA-O3A
47	IC	501	GTP	C5'-O5'-PA-O1A
47	IC	501	GTP	C5'-O5'-PA-O2A
47	IE	501	GTP	C5'-O5'-PA-O3A
47	IE	501	GTP	C5'-O5'-PA-O1A
47	IE	501	GTP	C5'-O5'-PA-O2A
47	IG	501	GTP	C5'-O5'-PA-O3A
47	IG	501	GTP	C5'-O5'-PA-O2A
47	II	501	GTP	C5'-O5'-PA-O3A
47	II	501	GTP	C5'-O5'-PA-O1A
47	II	501	GTP	C5'-O5'-PA-O2A
47	IK	501	GTP	C5'-O5'-PA-O3A
47	IK	501	GTP	C5'-O5'-PA-O1A
47	IK	501	GTP	C5'-O5'-PA-O2A
47	IM	501	GTP	C5'-O5'-PA-O3A
47	IM	501	GTP	C5'-O5'-PA-O2A
47	JA	501	GTP	C5'-O5'-PA-O3A
47	JA	501	GTP	C5'-O5'-PA-O2A
47	JE	501	GTP	C5'-O5'-PA-O3A
47	JE	501	GTP	C5'-O5'-PA-O2A
47	JG	501	GTP	C5'-O5'-PA-O3A
47	JG	501	GTP	C5'-O5'-PA-O2A
47	JI	501	GTP	C5'-O5'-PA-O3A
47	JI	501	GTP	C5'-O5'-PA-O2A
47	JK	501	GTP	C5'-O5'-PA-O3A
47	JM	501	GTP	C5'-O5'-PA-O3A
47	JM	501	GTP	C5'-O5'-PA-O1A
47	JM	501	GTP	C5'-O5'-PA-O2A
47	KA	501	GTP	PB-O3A-PA-O5'
47	KA	501	GTP	C5'-O5'-PA-O3A
47	KA	501	GTP	C5'-O5'-PA-O2A
47	KC	501	GTP	C5'-O5'-PA-O3A
47	KC	501	GTP	C5'-O5'-PA-O2A
47	KE	501	GTP	C5'-O5'-PA-O3A
47	KE	501	GTP	C5'-O5'-PA-O1A
47	KE	501	GTP	C5'-O5'-PA-O2A
47	KG	501	GTP	C5'-O5'-PA-O3A
47	KG	501	GTP	C5'-O5'-PA-O2A
47	KI	501	GTP	C5'-O5'-PA-O3A
47	KI	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
47	KI	501	GTP	C5'-O5'-PA-O2A
47	KK	501	GTP	C5'-O5'-PA-O3A
47	KK	501	GTP	C5'-O5'-PA-O2A
47	KM	501	GTP	C5'-O5'-PA-O3A
47	KM	501	GTP	C5'-O5'-PA-O2A
47	LA	501	GTP	PB-O3A-PA-O5'
47	LA	501	GTP	C5'-O5'-PA-O3A
47	LA	501	GTP	C5'-O5'-PA-O2A
47	LC	501	GTP	PB-O3A-PA-O5'
47	LE	501	GTP	C5'-O5'-PA-O3A
47	LE	501	GTP	C5'-O5'-PA-O2A
47	LI	501	GTP	PB-O3A-PA-O5'
47	LI	501	GTP	C5'-O5'-PA-O3A
47	LI	501	GTP	C5'-O5'-PA-O2A
47	LK	501	GTP	C5'-O5'-PA-O3A
47	LK	501	GTP	C5'-O5'-PA-O2A
47	LM	501	GTP	C5'-O5'-PA-O3A
47	LM	501	GTP	C5'-O5'-PA-O2A
47	MA	501	GTP	C5'-O5'-PA-O3A
47	MA	501	GTP	C5'-O5'-PA-O1A
47	MA	501	GTP	C5'-O5'-PA-O2A
47	MC	501	GTP	C5'-O5'-PA-O3A
47	MC	501	GTP	C5'-O5'-PA-O1A
47	MC	501	GTP	C5'-O5'-PA-O2A
47	ME	501	GTP	C5'-O5'-PA-O3A
47	ME	501	GTP	C5'-O5'-PA-O1A
47	ME	501	GTP	C5'-O5'-PA-O2A
47	MG	501	GTP	C5'-O5'-PA-O3A
47	MG	501	GTP	C5'-O5'-PA-O1A
47	MG	501	GTP	C5'-O5'-PA-O2A
47	MI	501	GTP	C5'-O5'-PA-O3A
47	MI	501	GTP	C5'-O5'-PA-O1A
47	MI	501	GTP	C5'-O5'-PA-O2A
47	MK	501	GTP	C5'-O5'-PA-O3A
47	MK	501	GTP	C5'-O5'-PA-O1A
47	MK	501	GTP	C5'-O5'-PA-O2A
47	MM	501	GTP	C5'-O5'-PA-O3A
47	MM	501	GTP	C5'-O5'-PA-O1A
47	MM	501	GTP	C5'-O5'-PA-O2A
47	NA	501	GTP	C5'-O5'-PA-O3A
47	NA	501	GTP	C5'-O5'-PA-O2A
47	NE	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
47	NE	501	GTP	C5'-O5'-PA-O3A
47	NE	501	GTP	C5'-O5'-PA-O2A
47	NG	501	GTP	PB-O3B-PG-O2G
47	NG	501	GTP	PB-O3B-PG-O3G
47	NK	501	GTP	PB-O3B-PG-O3G
47	NK	501	GTP	C5'-O5'-PA-O1A
47	OA	501	GTP	C5'-O5'-PA-O3A
47	OC	501	GTP	PB-O3B-PG-O2G
47	OC	501	GTP	PB-O3B-PG-O3G
47	OF	501	GTP	C5'-O5'-PA-O3A
47	OF	501	GTP	C5'-O5'-PA-O1A
47	OG	501	GTP	PB-O3B-PG-O3G
47	OI	501	GTP	C5'-O5'-PA-O3A
47	OI	501	GTP	C5'-O5'-PA-O1A
47	OM	501	GTP	O4'-C4'-C5'-O5'
47	PA	501	GTP	C5'-O5'-PA-O3A
47	PA	501	GTP	C5'-O5'-PA-O1A
47	PA	501	GTP	C5'-O5'-PA-O2A
47	PD	501	GTP	C5'-O5'-PA-O3A
47	PD	501	GTP	C5'-O5'-PA-O1A
47	PD	501	GTP	C5'-O5'-PA-O2A
47	PE	501	GTP	C5'-O5'-PA-O3A
47	PE	501	GTP	C5'-O5'-PA-O1A
47	PE	501	GTP	C5'-O5'-PA-O2A
47	PG	501	GTP	C5'-O5'-PA-O3A
47	PG	501	GTP	C5'-O5'-PA-O1A
47	PG	501	GTP	C5'-O5'-PA-O2A
47	PI	501	GTP	C5'-O5'-PA-O3A
47	PI	501	GTP	C5'-O5'-PA-O1A
47	PI	501	GTP	C5'-O5'-PA-O2A
47	PK	501	GTP	C5'-O5'-PA-O3A
47	PK	501	GTP	C5'-O5'-PA-O1A
47	PK	501	GTP	C5'-O5'-PA-O2A
47	PM	501	GTP	C5'-O5'-PA-O3A
47	PM	501	GTP	C5'-O5'-PA-O1A
47	PM	501	GTP	C5'-O5'-PA-O2A
47	QA	501	GTP	C5'-O5'-PA-O3A
47	QA	501	GTP	C5'-O5'-PA-O2A
47	QC	501	GTP	C5'-O5'-PA-O3A
47	QC	501	GTP	C5'-O5'-PA-O2A
47	QE	501	GTP	C5'-O5'-PA-O3A
47	QE	501	GTP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
47	QE	501	GTP	C5'-O5'-PA-O2A
47	QI	501	GTP	C5'-O5'-PA-O3A
47	QI	501	GTP	C5'-O5'-PA-O1A
47	QI	501	GTP	C5'-O5'-PA-O2A
47	QI	501	GTP	O4'-C4'-C5'-O5'
47	QK	501	GTP	C5'-O5'-PA-O3A
47	QK	501	GTP	C5'-O5'-PA-O2A
47	QM	501	GTP	C5'-O5'-PA-O3A
47	QM	501	GTP	C5'-O5'-PA-O1A
47	RA	501	GTP	C5'-O5'-PA-O3A
47	RA	501	GTP	C5'-O5'-PA-O2A
47	RC	501	GTP	C5'-O5'-PA-O3A
47	RC	501	GTP	C5'-O5'-PA-O1A
47	RC	501	GTP	C5'-O5'-PA-O2A
47	RE	501	GTP	C5'-O5'-PA-O3A
47	RE	501	GTP	C5'-O5'-PA-O1A
47	RE	501	GTP	C5'-O5'-PA-O2A
47	RG	501	GTP	C5'-O5'-PA-O3A
47	RG	501	GTP	C5'-O5'-PA-O1A
47	RG	501	GTP	C5'-O5'-PA-O2A
47	RI	501	GTP	C5'-O5'-PA-O3A
47	RI	501	GTP	C5'-O5'-PA-O2A
47	RK	501	GTP	C5'-O5'-PA-O3A
47	RK	501	GTP	C5'-O5'-PA-O1A
47	RK	501	GTP	C5'-O5'-PA-O2A
47	RM	501	GTP	PB-O3A-PA-O5'
47	RM	501	GTP	C5'-O5'-PA-O3A
47	RM	501	GTP	C5'-O5'-PA-O1A
47	RM	501	GTP	C5'-O5'-PA-O2A
47	SA	501	GTP	C5'-O5'-PA-O3A
47	SA	501	GTP	C5'-O5'-PA-O2A
47	SC	501	GTP	C5'-O5'-PA-O3A
47	SC	501	GTP	C5'-O5'-PA-O1A
47	SC	501	GTP	C5'-O5'-PA-O2A
47	SE	501	GTP	C5'-O5'-PA-O3A
47	SE	501	GTP	C5'-O5'-PA-O1A
47	SE	501	GTP	C5'-O5'-PA-O2A
47	SG	501	GTP	C5'-O5'-PA-O3A
47	SG	501	GTP	C5'-O5'-PA-O1A
47	SG	501	GTP	C5'-O5'-PA-O2A
47	SI	501	GTP	C5'-O5'-PA-O3A
47	SI	501	GTP	C5'-O5'-PA-O2A

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Mol	Chain	Res	Type	Atoms
47	SK	501	GTP	C5'-O5'-PA-O3A
47	SK	501	GTP	C5'-O5'-PA-O1A
47	SK	501	GTP	C5'-O5'-PA-O2A
47	SM	501	GTP	C5'-O5'-PA-O3A
47	SM	501	GTP	C5'-O5'-PA-O1A
47	SM	501	GTP	C5'-O5'-PA-O2A
47	TA	501	GTP	C5'-O5'-PA-O3A
47	TA	501	GTP	C5'-O5'-PA-O2A
47	TC	501	GTP	C5'-O5'-PA-O3A
47	TC	501	GTP	C5'-O5'-PA-O1A
47	TC	501	GTP	C5'-O5'-PA-O2A
47	TE	501	GTP	C5'-O5'-PA-O3A
47	TE	501	GTP	C5'-O5'-PA-O1A
47	TE	501	GTP	C5'-O5'-PA-O2A
47	TG	501	GTP	C5'-O5'-PA-O3A
47	TG	501	GTP	C5'-O5'-PA-O2A
47	TI	501	GTP	C5'-O5'-PA-O3A
47	TI	501	GTP	C5'-O5'-PA-O2A
47	TK	501	GTP	C5'-O5'-PA-O3A
47	TK	501	GTP	C5'-O5'-PA-O1A
47	TK	501	GTP	C5'-O5'-PA-O2A
47	TM	501	GTP	C5'-O5'-PA-O3A
47	TM	501	GTP	C5'-O5'-PA-O1A
47	TM	501	GTP	C5'-O5'-PA-O2A
47	UA	501	GTP	C5'-O5'-PA-O3A
47	UA	501	GTP	C5'-O5'-PA-O2A
47	UC	501	GTP	C5'-O5'-PA-O3A
47	UC	501	GTP	C5'-O5'-PA-O1A
47	UC	501	GTP	C5'-O5'-PA-O2A
47	UE	501	GTP	C5'-O5'-PA-O3A
47	UE	501	GTP	C5'-O5'-PA-O1A
47	UE	501	GTP	C5'-O5'-PA-O2A
47	UG	501	GTP	PB-O3A-PA-O5'
47	UG	501	GTP	C5'-O5'-PA-O3A
47	UG	501	GTP	C5'-O5'-PA-O1A
47	UG	501	GTP	C5'-O5'-PA-O2A
47	UI	501	GTP	C5'-O5'-PA-O3A
47	UI	501	GTP	C5'-O5'-PA-O2A
47	UK	501	GTP	C5'-O5'-PA-O3A
47	UK	501	GTP	C5'-O5'-PA-O1A
47	UK	501	GTP	C5'-O5'-PA-O2A
47	UM	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	UM	501	GTP	C5'-O5'-PA-O1A
47	UM	501	GTP	C5'-O5'-PA-O2A
47	VA	501	GTP	C5'-O5'-PA-O3A
47	VA	501	GTP	C5'-O5'-PA-O1A
47	VA	501	GTP	C5'-O5'-PA-O2A
47	VA	501	GTP	O4'-C4'-C5'-O5'
47	VC	501	GTP	C5'-O5'-PA-O3A
47	VC	501	GTP	C5'-O5'-PA-O1A
47	VC	501	GTP	C5'-O5'-PA-O2A
47	VE	501	GTP	PB-O3A-PA-O5'
47	VE	501	GTP	C5'-O5'-PA-O3A
47	VE	501	GTP	C5'-O5'-PA-O2A
47	VG	501	GTP	C5'-O5'-PA-O3A
47	VG	501	GTP	C5'-O5'-PA-O1A
47	VG	501	GTP	C5'-O5'-PA-O2A
47	VI	501	GTP	C5'-O5'-PA-O3A
47	VI	501	GTP	C5'-O5'-PA-O1A
47	VI	501	GTP	C5'-O5'-PA-O2A
47	VK	501	GTP	C5'-O5'-PA-O3A
47	VK	501	GTP	C5'-O5'-PA-O1A
47	VK	501	GTP	C5'-O5'-PA-O2A
47	VM	501	GTP	C5'-O5'-PA-O3A
47	VM	501	GTP	C5'-O5'-PA-O1A
47	VM	501	GTP	C5'-O5'-PA-O2A
47	WA	501	GTP	C5'-O5'-PA-O3A
47	WA	501	GTP	C5'-O5'-PA-O1A
47	WA	501	GTP	C5'-O5'-PA-O2A
47	WC	501	GTP	C5'-O5'-PA-O3A
47	WC	501	GTP	C5'-O5'-PA-O1A
47	WC	501	GTP	C5'-O5'-PA-O2A
47	WE	501	GTP	C5'-O5'-PA-O3A
47	WE	501	GTP	C5'-O5'-PA-O1A
47	WE	501	GTP	C5'-O5'-PA-O2A
47	WG	501	GTP	C5'-O5'-PA-O3A
47	WG	501	GTP	C5'-O5'-PA-O1A
47	WG	501	GTP	C5'-O5'-PA-O2A
47	WI	501	GTP	C5'-O5'-PA-O3A
47	WI	501	GTP	C5'-O5'-PA-O1A
47	WI	501	GTP	C5'-O5'-PA-O2A
47	WK	501	GTP	C5'-O5'-PA-O3A
47	WK	501	GTP	C5'-O5'-PA-O2A
47	WM	501	GTP	C5'-O5'-PA-O3A

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Mol	Chain	Res	Type	Atoms
47	WM	501	GTP	C5'-O5'-PA-O1A
47	WM	501	GTP	C5'-O5'-PA-O2A
47	CE	501	GTP	C5'-O5'-PA-O3A
47	CE	501	GTP	C5'-O5'-PA-O1A
47	CE	501	GTP	C5'-O5'-PA-O2A
47	DC	501	GTP	C5'-O5'-PA-O3A
47	DC	501	GTP	C5'-O5'-PA-O1A
47	DC	501	GTP	C5'-O5'-PA-O2A
49	BD	501	GDP	C5'-O5'-PA-O1A
49	DF	501	GDP	C5'-O5'-PA-O1A
49	EN	501	GDP	C5'-O5'-PA-O1A
49	JD	501	GDP	C5'-O5'-PA-O3A
49	JD	501	GDP	C5'-O5'-PA-O1A
49	JF	501	GDP	C5'-O5'-PA-O1A
49	JL	501	GDP	C5'-O5'-PA-O1A
49	LL	501	GDP	C5'-O5'-PA-O1A
49	ML	501	GDP	C5'-O5'-PA-O1A
49	SH	501	GDP	C5'-O5'-PA-O1A
49	TD	501	GDP	C5'-O5'-PA-O1A
49	TF	501	GDP	C5'-O5'-PA-O1A
49	TJ	501	GDP	C5'-O5'-PA-O1A
49	TL	501	GDP	C5'-O5'-PA-O1A
47	AC	501	GTP	O4'-C4'-C5'-O5'
47	BE	501	GTP	O4'-C4'-C5'-O5'
47	BI	501	GTP	C3'-C4'-C5'-O5'
47	BK	501	GTP	C3'-C4'-C5'-O5'
47	BM	501	GTP	O4'-C4'-C5'-O5'
47	BM	501	GTP	C3'-C4'-C5'-O5'
47	CK	501	GTP	C3'-C4'-C5'-O5'
47	CM	501	GTP	O4'-C4'-C5'-O5'
47	CM	501	GTP	C3'-C4'-C5'-O5'
47	DA	501	GTP	O4'-C4'-C5'-O5'
47	DI	501	GTP	O4'-C4'-C5'-O5'
47	DI	501	GTP	C3'-C4'-C5'-O5'
47	DM	501	GTP	O4'-C4'-C5'-O5'
47	DM	501	GTP	C3'-C4'-C5'-O5'
47	FC	501	GTP	O4'-C4'-C5'-O5'
47	FE	501	GTP	O4'-C4'-C5'-O5'
47	GA	501	GTP	C3'-C4'-C5'-O5'
47	GE	501	GTP	O4'-C4'-C5'-O5'
47	GE	501	GTP	C3'-C4'-C5'-O5'
47	GG	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	GG	501	GTP	C3'-C4'-C5'-O5'
47	GI	501	GTP	C3'-C4'-C5'-O5'
47	HA	501	GTP	C3'-C4'-C5'-O5'
47	HE	501	GTP	O4'-C4'-C5'-O5'
47	HE	501	GTP	C3'-C4'-C5'-O5'
47	HK	501	GTP	O4'-C4'-C5'-O5'
47	HK	501	GTP	C3'-C4'-C5'-O5'
47	IC	501	GTP	O4'-C4'-C5'-O5'
47	IC	501	GTP	C3'-C4'-C5'-O5'
47	IE	501	GTP	O4'-C4'-C5'-O5'
47	IE	501	GTP	C3'-C4'-C5'-O5'
47	II	501	GTP	O4'-C4'-C5'-O5'
47	II	501	GTP	C3'-C4'-C5'-O5'
47	IK	501	GTP	O4'-C4'-C5'-O5'
47	IK	501	GTP	C3'-C4'-C5'-O5'
47	ME	501	GTP	C3'-C4'-C5'-O5'
47	MM	501	GTP	O4'-C4'-C5'-O5'
47	MM	501	GTP	C3'-C4'-C5'-O5'
47	NA	501	GTP	O4'-C4'-C5'-O5'
47	NA	501	GTP	C3'-C4'-C5'-O5'
47	NE	501	GTP	C3'-C4'-C5'-O5'
47	NM	501	GTP	O4'-C4'-C5'-O5'
47	NM	501	GTP	C3'-C4'-C5'-O5'
47	OC	501	GTP	O4'-C4'-C5'-O5'
47	OC	501	GTP	C3'-C4'-C5'-O5'
47	OF	501	GTP	O4'-C4'-C5'-O5'
47	OF	501	GTP	C3'-C4'-C5'-O5'
47	OG	501	GTP	O4'-C4'-C5'-O5'
47	OI	501	GTP	O4'-C4'-C5'-O5'
47	OI	501	GTP	C3'-C4'-C5'-O5'
47	OM	501	GTP	C3'-C4'-C5'-O5'
47	PD	501	GTP	O4'-C4'-C5'-O5'
47	PD	501	GTP	C3'-C4'-C5'-O5'
47	PE	501	GTP	O4'-C4'-C5'-O5'
47	PE	501	GTP	C3'-C4'-C5'-O5'
47	PG	501	GTP	C3'-C4'-C5'-O5'
47	PM	501	GTP	O4'-C4'-C5'-O5'
47	PM	501	GTP	C3'-C4'-C5'-O5'
47	QI	501	GTP	C3'-C4'-C5'-O5'
47	QM	501	GTP	O4'-C4'-C5'-O5'
47	RG	501	GTP	O4'-C4'-C5'-O5'
47	RG	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	RK	501	GTP	C3'-C4'-C5'-O5'
47	RM	501	GTP	O4'-C4'-C5'-O5'
47	RM	501	GTP	C3'-C4'-C5'-O5'
47	SC	501	GTP	C3'-C4'-C5'-O5'
47	SM	501	GTP	O4'-C4'-C5'-O5'
47	SM	501	GTP	C3'-C4'-C5'-O5'
47	TM	501	GTP	O4'-C4'-C5'-O5'
47	UE	501	GTP	C3'-C4'-C5'-O5'
47	UI	501	GTP	C3'-C4'-C5'-O5'
47	VA	501	GTP	C3'-C4'-C5'-O5'
47	VC	501	GTP	O4'-C4'-C5'-O5'
47	VC	501	GTP	C3'-C4'-C5'-O5'
47	WG	501	GTP	C3'-C4'-C5'-O5'
47	WM	501	GTP	O4'-C4'-C5'-O5'
47	WM	501	GTP	C3'-C4'-C5'-O5'
47	CE	501	GTP	O4'-C4'-C5'-O5'
47	AC	501	GTP	C3'-C4'-C5'-O5'
47	AE	501	GTP	O4'-C4'-C5'-O5'
47	AE	501	GTP	C3'-C4'-C5'-O5'
47	AK	501	GTP	O4'-C4'-C5'-O5'
47	AK	501	GTP	C3'-C4'-C5'-O5'
47	BC	502	GTP	O4'-C4'-C5'-O5'
47	BC	502	GTP	C3'-C4'-C5'-O5'
47	BE	501	GTP	C3'-C4'-C5'-O5'
47	BG	501	GTP	O4'-C4'-C5'-O5'
47	BG	501	GTP	C3'-C4'-C5'-O5'
47	BI	501	GTP	O4'-C4'-C5'-O5'
47	BK	501	GTP	O4'-C4'-C5'-O5'
47	CG	501	GTP	O4'-C4'-C5'-O5'
47	CG	501	GTP	C3'-C4'-C5'-O5'
47	DA	501	GTP	C3'-C4'-C5'-O5'
47	EM	501	GTP	O4'-C4'-C5'-O5'
47	FC	501	GTP	C3'-C4'-C5'-O5'
47	FE	501	GTP	C3'-C4'-C5'-O5'
47	FG	501	GTP	O4'-C4'-C5'-O5'
47	FI	501	GTP	O4'-C4'-C5'-O5'
47	FI	501	GTP	C3'-C4'-C5'-O5'
47	GA	501	GTP	O4'-C4'-C5'-O5'
47	GI	501	GTP	O4'-C4'-C5'-O5'
47	HA	501	GTP	O4'-C4'-C5'-O5'
47	HI	501	GTP	O4'-C4'-C5'-O5'
47	HI	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	IG	501	GTP	O4'-C4'-C5'-O5'
47	IG	501	GTP	C3'-C4'-C5'-O5'
47	IM	501	GTP	O4'-C4'-C5'-O5'
47	IM	501	GTP	C3'-C4'-C5'-O5'
47	LK	501	GTP	O4'-C4'-C5'-O5'
47	LK	501	GTP	C3'-C4'-C5'-O5'
47	MA	501	GTP	O4'-C4'-C5'-O5'
47	MA	501	GTP	C3'-C4'-C5'-O5'
47	ME	501	GTP	O4'-C4'-C5'-O5'
47	NC	501	GTP	O4'-C4'-C5'-O5'
47	NC	501	GTP	C3'-C4'-C5'-O5'
47	NE	501	GTP	O4'-C4'-C5'-O5'
47	OA	501	GTP	O4'-C4'-C5'-O5'
47	OG	501	GTP	C3'-C4'-C5'-O5'
47	PG	501	GTP	O4'-C4'-C5'-O5'
47	QE	501	GTP	O4'-C4'-C5'-O5'
47	QE	501	GTP	C3'-C4'-C5'-O5'
47	QK	501	GTP	O4'-C4'-C5'-O5'
47	QK	501	GTP	C3'-C4'-C5'-O5'
47	QM	501	GTP	C3'-C4'-C5'-O5'
47	RE	501	GTP	O4'-C4'-C5'-O5'
47	RE	501	GTP	C3'-C4'-C5'-O5'
47	RK	501	GTP	O4'-C4'-C5'-O5'
47	SC	501	GTP	O4'-C4'-C5'-O5'
47	TC	501	GTP	O4'-C4'-C5'-O5'
47	TC	501	GTP	C3'-C4'-C5'-O5'
47	TG	501	GTP	O4'-C4'-C5'-O5'
47	TG	501	GTP	C3'-C4'-C5'-O5'
47	TM	501	GTP	C3'-C4'-C5'-O5'
47	UE	501	GTP	O4'-C4'-C5'-O5'
47	UG	501	GTP	O4'-C4'-C5'-O5'
47	UG	501	GTP	C3'-C4'-C5'-O5'
47	UI	501	GTP	O4'-C4'-C5'-O5'
47	VG	501	GTP	O4'-C4'-C5'-O5'
47	VG	501	GTP	C3'-C4'-C5'-O5'
47	VK	501	GTP	O4'-C4'-C5'-O5'
47	VK	501	GTP	C3'-C4'-C5'-O5'
47	WC	501	GTP	O4'-C4'-C5'-O5'
47	WC	501	GTP	C3'-C4'-C5'-O5'
47	WE	501	GTP	O4'-C4'-C5'-O5'
47	WE	501	GTP	C3'-C4'-C5'-O5'
47	WG	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	WI	501	GTP	O4'-C4'-C5'-O5'
47	WI	501	GTP	C3'-C4'-C5'-O5'
47	WK	501	GTP	O4'-C4'-C5'-O5'
47	WK	501	GTP	C3'-C4'-C5'-O5'
47	CE	501	GTP	C3'-C4'-C5'-O5'
49	MD	501	GDP	O4'-C4'-C5'-O5'
49	MD	501	GDP	C3'-C4'-C5'-O5'
47	CA	501	GTP	O4'-C4'-C5'-O5'
47	CA	501	GTP	C3'-C4'-C5'-O5'
47	FG	501	GTP	C3'-C4'-C5'-O5'
47	GK	501	GTP	O4'-C4'-C5'-O5'
47	GK	501	GTP	C3'-C4'-C5'-O5'
47	GM	501	GTP	O4'-C4'-C5'-O5'
47	GM	501	GTP	C3'-C4'-C5'-O5'
47	IA	501	GTP	O4'-C4'-C5'-O5'
47	IA	501	GTP	C3'-C4'-C5'-O5'
47	JK	501	GTP	C3'-C4'-C5'-O5'
47	OA	501	GTP	C3'-C4'-C5'-O5'
47	OK	501	GTP	O4'-C4'-C5'-O5'
47	OK	501	GTP	C3'-C4'-C5'-O5'
47	PA	501	GTP	C3'-C4'-C5'-O5'
47	PI	501	GTP	C3'-C4'-C5'-O5'
47	RC	501	GTP	O4'-C4'-C5'-O5'
47	RC	501	GTP	C3'-C4'-C5'-O5'
47	TI	501	GTP	O4'-C4'-C5'-O5'
47	TI	501	GTP	C3'-C4'-C5'-O5'
47	VE	501	GTP	O4'-C4'-C5'-O5'
47	VE	501	GTP	C3'-C4'-C5'-O5'
47	VM	501	GTP	O4'-C4'-C5'-O5'
47	VM	501	GTP	C3'-C4'-C5'-O5'
47	AA	501	GTP	C3'-C4'-C5'-O5'
47	AM	501	GTP	C3'-C4'-C5'-O5'
47	BA	501	GTP	C3'-C4'-C5'-O5'
47	EA	501	GTP	C3'-C4'-C5'-O5'
47	EC	501	GTP	C3'-C4'-C5'-O5'
47	EM	501	GTP	C3'-C4'-C5'-O5'
47	FK	501	GTP	C3'-C4'-C5'-O5'
47	FM	501	GTP	C3'-C4'-C5'-O5'
47	GC	501	GTP	C3'-C4'-C5'-O5'
47	LM	501	GTP	C3'-C4'-C5'-O5'
47	MI	501	GTP	C3'-C4'-C5'-O5'
47	NI	501	GTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	PA	501	GTP	O4'-C4'-C5'-O5'
47	PI	501	GTP	O4'-C4'-C5'-O5'
47	QA	501	GTP	C3'-C4'-C5'-O5'
47	QG	501	GTP	C3'-C4'-C5'-O5'
47	RA	501	GTP	C3'-C4'-C5'-O5'
47	SA	501	GTP	C3'-C4'-C5'-O5'
47	SE	501	GTP	C3'-C4'-C5'-O5'
47	SG	501	GTP	C3'-C4'-C5'-O5'
47	TA	501	GTP	C3'-C4'-C5'-O5'
47	TE	501	GTP	C3'-C4'-C5'-O5'
47	UA	501	GTP	C3'-C4'-C5'-O5'
49	TL	501	GDP	C3'-C4'-C5'-O5'
47	EC	501	GTP	O4'-C4'-C5'-O5'
47	EE	501	GTP	C3'-C4'-C5'-O5'
47	EI	501	GTP	C3'-C4'-C5'-O5'
47	JK	501	GTP	O4'-C4'-C5'-O5'
47	LI	501	GTP	C3'-C4'-C5'-O5'
47	MC	501	GTP	C3'-C4'-C5'-O5'
47	MI	501	GTP	O4'-C4'-C5'-O5'
47	RA	501	GTP	O4'-C4'-C5'-O5'
47	SG	501	GTP	O4'-C4'-C5'-O5'
47	SK	501	GTP	C3'-C4'-C5'-O5'
47	UA	501	GTP	O4'-C4'-C5'-O5'
49	LL	501	GDP	C3'-C4'-C5'-O5'
47	AA	501	GTP	O4'-C4'-C5'-O5'
47	EA	501	GTP	O4'-C4'-C5'-O5'
47	EK	501	GTP	C3'-C4'-C5'-O5'
47	HM	501	GTP	C3'-C4'-C5'-O5'
47	JC	501	GTP	C3'-C4'-C5'-O5'
47	JG	501	GTP	C3'-C4'-C5'-O5'
47	JM	501	GTP	C3'-C4'-C5'-O5'
47	LE	501	GTP	C3'-C4'-C5'-O5'
47	LM	501	GTP	O4'-C4'-C5'-O5'
47	TA	501	GTP	O4'-C4'-C5'-O5'
47	BA	501	GTP	O4'-C4'-C5'-O5'
47	FM	501	GTP	O4'-C4'-C5'-O5'
47	GC	501	GTP	O4'-C4'-C5'-O5'
47	KA	501	GTP	C3'-C4'-C5'-O5'
47	KM	501	GTP	C3'-C4'-C5'-O5'
47	MG	501	GTP	C3'-C4'-C5'-O5'
47	MK	501	GTP	C3'-C4'-C5'-O5'
47	NI	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	QA	501	GTP	O4'-C4'-C5'-O5'
47	QG	501	GTP	O4'-C4'-C5'-O5'
47	RI	501	GTP	C3'-C4'-C5'-O5'
47	SA	501	GTP	O4'-C4'-C5'-O5'
47	SE	501	GTP	O4'-C4'-C5'-O5'
47	TE	501	GTP	O4'-C4'-C5'-O5'
47	UM	501	GTP	C3'-C4'-C5'-O5'
47	WA	501	GTP	C3'-C4'-C5'-O5'
47	DC	501	GTP	C3'-C4'-C5'-O5'
49	LH	501	GDP	C3'-C4'-C5'-O5'
47	AM	501	GTP	PA-O3A-PB-O1B
47	BK	501	GTP	PA-O3A-PB-O1B
47	FA	501	GTP	PA-O3A-PB-O1B
47	FE	501	GTP	PA-O3A-PB-O1B
47	GA	501	GTP	PA-O3A-PB-O1B
47	GK	501	GTP	PA-O3A-PB-O1B
47	GM	501	GTP	PA-O3A-PB-O1B
47	HG	501	GTP	PA-O3A-PB-O1B
47	HG	501	GTP	PB-O3A-PA-O1A
47	JK	501	GTP	PA-O3A-PB-O1B
47	LK	501	GTP	PA-O3A-PB-O1B
47	QA	501	GTP	PA-O3A-PB-O1B
47	SE	501	GTP	PA-O3A-PB-O1B
47	SG	501	GTP	PA-O3A-PB-O1B
47	UI	501	GTP	PA-O3A-PB-O1B
47	VI	501	GTP	PB-O3A-PA-O1A
47	WK	501	GTP	PB-O3A-PA-O1A
47	AI	501	GTP	C4'-C5'-O5'-PA
47	CC	501	GTP	C4'-C5'-O5'-PA
47	TE	501	GTP	C4'-C5'-O5'-PA
47	UC	501	GTP	C4'-C5'-O5'-PA
47	VC	501	GTP	C4'-C5'-O5'-PA
47	AM	501	GTP	O4'-C4'-C5'-O5'
47	EI	501	GTP	O4'-C4'-C5'-O5'
47	FK	501	GTP	O4'-C4'-C5'-O5'
49	TL	501	GDP	O4'-C4'-C5'-O5'
47	AG	501	GTP	C4'-C5'-O5'-PA
47	AM	501	GTP	C4'-C5'-O5'-PA
47	BC	502	GTP	C4'-C5'-O5'-PA
47	BG	501	GTP	C4'-C5'-O5'-PA
47	BI	501	GTP	C4'-C5'-O5'-PA
47	BK	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	CK	501	GTP	C4'-C5'-O5'-PA
47	EI	501	GTP	C4'-C5'-O5'-PA
47	FE	501	GTP	C4'-C5'-O5'-PA
47	FI	501	GTP	C4'-C5'-O5'-PA
47	GC	501	GTP	C4'-C5'-O5'-PA
47	GG	501	GTP	C4'-C5'-O5'-PA
47	GI	501	GTP	C4'-C5'-O5'-PA
47	HC	501	GTP	C4'-C5'-O5'-PA
47	HE	501	GTP	C4'-C5'-O5'-PA
47	HI	501	GTP	C4'-C5'-O5'-PA
47	HK	501	GTP	C4'-C5'-O5'-PA
47	IC	501	GTP	C4'-C5'-O5'-PA
47	II	501	GTP	C4'-C5'-O5'-PA
47	IK	501	GTP	C4'-C5'-O5'-PA
47	JM	501	GTP	C4'-C5'-O5'-PA
47	MC	501	GTP	C4'-C5'-O5'-PA
47	MG	501	GTP	C4'-C5'-O5'-PA
47	PG	501	GTP	C4'-C5'-O5'-PA
47	QC	501	GTP	C4'-C5'-O5'-PA
47	SE	501	GTP	C4'-C5'-O5'-PA
47	SK	501	GTP	C4'-C5'-O5'-PA
47	TK	501	GTP	C4'-C5'-O5'-PA
47	UE	501	GTP	C4'-C5'-O5'-PA
47	UI	501	GTP	C4'-C5'-O5'-PA
47	VG	501	GTP	C4'-C5'-O5'-PA
47	EE	501	GTP	O4'-C4'-C5'-O5'
47	LI	501	GTP	O4'-C4'-C5'-O5'
47	AK	501	GTP	PB-O3A-PA-O5'
47	AM	501	GTP	PB-O3A-PA-O5'
47	CA	501	GTP	PB-O3A-PA-O5'
47	DK	501	GTP	PB-O3A-PA-O5'
47	EA	501	GTP	PB-O3A-PA-O5'
47	EM	501	GTP	PB-O3A-PA-O5'
47	GK	501	GTP	PB-O3A-PA-O5'
47	GM	501	GTP	PB-O3A-PA-O5'
47	HG	501	GTP	PB-O3A-PA-O5'
47	HI	501	GTP	PB-O3A-PA-O5'
47	IG	501	GTP	PB-O3A-PA-O5'
47	IM	501	GTP	PB-O3A-PA-O5'
47	JC	501	GTP	PB-O3A-PA-O5'
47	JG	501	GTP	PB-O3A-PA-O5'
47	JK	501	GTP	PB-O3A-PA-O5'

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Mol	Chain	Res	Type	Atoms
47	KK	501	GTP	PB-O3A-PA-O5'
47	LE	501	GTP	PB-O3A-PA-O5'
47	LG	501	GTP	PB-O3A-PA-O5'
47	MA	501	GTP	PB-O3A-PA-O5'
47	NA	501	GTP	PB-O3A-PA-O5'
47	NC	501	GTP	PB-O3A-PA-O5'
47	NG	501	GTP	PB-O3A-PA-O5'
47	NI	501	GTP	PB-O3A-PA-O5'
47	NK	501	GTP	PB-O3A-PA-O5'
47	NM	501	GTP	PB-O3A-PA-O5'
47	OC	501	GTP	PB-O3A-PA-O5'
47	OF	501	GTP	PB-O3A-PA-O5'
47	OG	501	GTP	PB-O3A-PA-O5'
47	OK	501	GTP	PB-O3A-PA-O5'
47	PD	501	GTP	PB-O3A-PA-O5'
47	QA	501	GTP	PB-O3A-PA-O5'
47	QG	501	GTP	PB-O3A-PA-O5'
47	RA	501	GTP	PB-O3A-PA-O5'
47	TA	501	GTP	PB-O3A-PA-O5'
47	TG	501	GTP	PB-O3A-PA-O5'
47	TI	501	GTP	PB-O3A-PA-O5'
47	UA	501	GTP	PB-O3A-PA-O5'
47	UI	501	GTP	PB-O3A-PA-O5'
47	VC	501	GTP	PB-O3A-PA-O5'
47	VK	501	GTP	PB-O3A-PA-O5'
47	WK	501	GTP	PB-O3A-PA-O5'
47	BE	501	GTP	C4'-C5'-O5'-PA
47	SG	501	GTP	C4'-C5'-O5'-PA
47	TI	501	GTP	C4'-C5'-O5'-PA
47	UG	501	GTP	C4'-C5'-O5'-PA
47	AI	501	GTP	C3'-C4'-C5'-O5'
47	FA	501	GTP	C3'-C4'-C5'-O5'
47	KI	501	GTP	C3'-C4'-C5'-O5'
47	LC	501	GTP	C3'-C4'-C5'-O5'
49	MB	501	GDP	C3'-C4'-C5'-O5'
47	EG	501	GTP	C3'-C4'-C5'-O5'
47	JE	501	GTP	C3'-C4'-C5'-O5'
47	JI	501	GTP	C3'-C4'-C5'-O5'
47	LA	501	GTP	C3'-C4'-C5'-O5'
47	LG	501	GTP	C3'-C4'-C5'-O5'
47	NG	501	GTP	C3'-C4'-C5'-O5'
47	SK	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
49	FJ	501	GDP	C3'-C4'-C5'-O5'
49	LL	501	GDP	O4'-C4'-C5'-O5'
49	RJ	501	GDP	C3'-C4'-C5'-O5'
49	TD	501	GDP	C3'-C4'-C5'-O5'
49	WJ	501	GDP	C3'-C4'-C5'-O5'
47	AA	501	GTP	PB-O3A-PA-O1A
47	AI	501	GTP	PA-O3A-PB-O2B
47	BC	502	GTP	PA-O3A-PB-O2B
47	BG	501	GTP	PA-O3A-PB-O2B
47	BM	501	GTP	PA-O3A-PB-O2B
47	CA	501	GTP	PA-O3A-PB-O1B
47	CK	501	GTP	PA-O3A-PB-O2B
47	CM	501	GTP	PA-O3A-PB-O2B
47	DA	501	GTP	PA-O3A-PB-O2B
47	DK	501	GTP	PA-O3A-PB-O2B
47	DM	501	GTP	PA-O3A-PB-O2B
47	EI	501	GTP	PA-O3A-PB-O2B
47	FG	501	GTP	PA-O3A-PB-O2B
47	HA	501	GTP	PA-O3A-PB-O2B
47	HE	501	GTP	PA-O3A-PB-O2B
47	IC	501	GTP	PA-O3A-PB-O2B
47	KA	501	GTP	PA-O3A-PB-O2B
47	KI	501	GTP	PA-O3A-PB-O2B
47	KM	501	GTP	PA-O3A-PB-O2B
47	LI	501	GTP	PA-O3A-PB-O2B
47	LM	501	GTP	PA-O3A-PB-O2B
47	MC	501	GTP	PA-O3A-PB-O2B
47	MG	501	GTP	PA-O3A-PB-O2B
47	MI	501	GTP	PA-O3A-PB-O2B
47	MK	501	GTP	PA-O3A-PB-O2B
47	NA	501	GTP	PA-O3A-PB-O1B
47	PA	501	GTP	PA-O3A-PB-O2B
47	PM	501	GTP	PA-O3A-PB-O2B
47	QI	501	GTP	PA-O3A-PB-O2B
47	RA	501	GTP	PA-O3A-PB-O1B
47	RM	501	GTP	PA-O3A-PB-O2B
47	SC	501	GTP	PA-O3A-PB-O2B
47	SK	501	GTP	PA-O3A-PB-O1B
47	SM	501	GTP	PA-O3A-PB-O2B
47	TE	501	GTP	PA-O3A-PB-O2B
47	TG	501	GTP	PA-O3A-PB-O1B
47	VA	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	VC	501	GTP	PA-O3A-PB-O2B
47	VK	501	GTP	PA-O3A-PB-O2B
47	VM	501	GTP	PA-O3A-PB-O1B
47	WK	501	GTP	PA-O3A-PB-O1B
47	KE	501	GTP	C3'-C4'-C5'-O5'
47	KG	501	GTP	C3'-C4'-C5'-O5'
47	MC	501	GTP	O4'-C4'-C5'-O5'
47	TK	501	GTP	C3'-C4'-C5'-O5'
47	AE	501	GTP	C4'-C5'-O5'-PA
47	AK	501	GTP	C4'-C5'-O5'-PA
47	DA	501	GTP	C4'-C5'-O5'-PA
47	DM	501	GTP	C4'-C5'-O5'-PA
47	GA	501	GTP	C4'-C5'-O5'-PA
47	GE	501	GTP	C4'-C5'-O5'-PA
47	IE	501	GTP	C4'-C5'-O5'-PA
47	JG	501	GTP	C4'-C5'-O5'-PA
47	JK	501	GTP	C4'-C5'-O5'-PA
47	KA	501	GTP	C4'-C5'-O5'-PA
47	KG	501	GTP	C4'-C5'-O5'-PA
47	LA	501	GTP	C4'-C5'-O5'-PA
47	LE	501	GTP	C4'-C5'-O5'-PA
47	LI	501	GTP	C4'-C5'-O5'-PA
47	LK	501	GTP	C4'-C5'-O5'-PA
47	ME	501	GTP	C4'-C5'-O5'-PA
47	MK	501	GTP	C4'-C5'-O5'-PA
47	OK	501	GTP	C4'-C5'-O5'-PA
47	QE	501	GTP	C4'-C5'-O5'-PA
47	QK	501	GTP	C4'-C5'-O5'-PA
47	RK	501	GTP	C4'-C5'-O5'-PA
47	SC	501	GTP	C4'-C5'-O5'-PA
47	UK	501	GTP	C4'-C5'-O5'-PA
47	VA	501	GTP	C4'-C5'-O5'-PA
47	VE	501	GTP	C4'-C5'-O5'-PA
47	VI	501	GTP	C4'-C5'-O5'-PA
47	DE	501	GTP	C3'-C4'-C5'-O5'
47	EK	501	GTP	O4'-C4'-C5'-O5'
47	HM	501	GTP	O4'-C4'-C5'-O5'
47	JA	501	GTP	C3'-C4'-C5'-O5'
47	JC	501	GTP	O4'-C4'-C5'-O5'
47	JG	501	GTP	O4'-C4'-C5'-O5'
47	JM	501	GTP	O4'-C4'-C5'-O5'
47	LE	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	MK	501	GTP	O4'-C4'-C5'-O5'
47	RI	501	GTP	O4'-C4'-C5'-O5'
47	UM	501	GTP	O4'-C4'-C5'-O5'
49	BN	501	GDP	C3'-C4'-C5'-O5'
47	CA	501	GTP	C5'-O5'-PA-O1A
47	JK	501	GTP	C5'-O5'-PA-O2A
47	NC	501	GTP	C5'-O5'-PA-O1A
47	NK	501	GTP	C5'-O5'-PA-O3A
47	OA	501	GTP	C5'-O5'-PA-O1A
47	OC	501	GTP	C5'-O5'-PA-O1A
47	OG	501	GTP	C5'-O5'-PA-O1A
47	QM	501	GTP	C5'-O5'-PA-O2A
49	AB	501	GDP	C5'-O5'-PA-O1A
49	AF	501	GDP	C5'-O5'-PA-O1A
49	AJ	501	GDP	C5'-O5'-PA-O1A
49	AL	501	GDP	C5'-O5'-PA-O1A
49	AN	501	GDP	C5'-O5'-PA-O1A
49	BF	501	GDP	C5'-O5'-PA-O1A
49	BN	501	GDP	C5'-O5'-PA-O1A
49	CD	501	GDP	C5'-O5'-PA-O1A
49	CH	501	GDP	C5'-O5'-PA-O1A
49	CJ	501	GDP	C5'-O5'-PA-O1A
49	EF	501	GDP	C5'-O5'-PA-O1A
49	EH	501	GDP	C5'-O5'-PA-O1A
49	EJ	501	GDP	C5'-O5'-PA-O1A
49	FD	501	GDP	C5'-O5'-PA-O1A
49	FH	501	GDP	C5'-O5'-PA-O1A
49	FJ	501	GDP	C5'-O5'-PA-O1A
49	FL	502	GDP	C5'-O5'-PA-O1A
49	FN	501	GDP	C5'-O5'-PA-O1A
49	GD	501	GDP	C5'-O5'-PA-O1A
49	GF	501	GDP	C5'-O5'-PA-O1A
49	GJ	501	GDP	C5'-O5'-PA-O1A
49	GL	502	GDP	C5'-O5'-PA-O1A
49	HD	501	GDP	C5'-O5'-PA-O1A
49	HF	501	GDP	C5'-O5'-PA-O1A
49	HJ	501	GDP	C5'-O5'-PA-O1A
49	HL	501	GDP	C5'-O5'-PA-O1A
49	IB	501	GDP	C5'-O5'-PA-O1A
49	ID	501	GDP	C5'-O5'-PA-O1A
49	IN	501	GDP	C5'-O5'-PA-O1A
49	JB	501	GDP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
49	JH	501	GDP	C5'-O5'-PA-O1A
49	JJ	501	GDP	C5'-O5'-PA-O1A
49	KL	501	GDP	C5'-O5'-PA-O1A
49	LD	501	GDP	C5'-O5'-PA-O1A
49	LF	501	GDP	C5'-O5'-PA-O1A
49	LH	501	GDP	C5'-O5'-PA-O1A
49	LJ	501	GDP	C5'-O5'-PA-O1A
49	MB	501	GDP	C5'-O5'-PA-O1A
49	MD	501	GDP	C5'-O5'-PA-O1A
49	MH	501	GDP	C5'-O5'-PA-O1A
49	NB	501	GDP	C5'-O5'-PA-O1A
49	ND	502	GDP	C5'-O5'-PA-O1A
49	NF	501	GDP	C5'-O5'-PA-O1A
49	NJ	501	GDP	C5'-O5'-PA-O1A
49	NN	501	GDP	C5'-O5'-PA-O1A
49	OH	501	GDP	C5'-O5'-PA-O1A
49	QB	501	GDP	C5'-O5'-PA-O1A
49	RJ	501	GDP	C5'-O5'-PA-O1A
49	SB	501	GDP	C5'-O5'-PA-O1A
49	SD	501	GDP	C5'-O5'-PA-O1A
49	SF	501	GDP	C5'-O5'-PA-O1A
49	SL	501	GDP	C5'-O5'-PA-O1A
49	TB	501	GDP	C5'-O5'-PA-O1A
49	TH	501	GDP	C5'-O5'-PA-O1A
49	UB	501	GDP	C5'-O5'-PA-O1A
49	UD	501	GDP	C5'-O5'-PA-O1A
49	UF	501	GDP	C5'-O5'-PA-O1A
49	UN	501	GDP	C5'-O5'-PA-O1A
49	VD	501	GDP	C5'-O5'-PA-O1A
49	VF	501	GDP	C5'-O5'-PA-O1A
49	VH	501	GDP	C5'-O5'-PA-O1A
49	VN	501	GDP	C5'-O5'-PA-O1A
49	WH	501	GDP	C5'-O5'-PA-O1A
49	WL	501	GDP	C5'-O5'-PA-O1A
49	WN	501	GDP	C5'-O5'-PA-O1A
47	AA	501	GTP	C4'-C5'-O5'-PA
47	AC	501	GTP	C4'-C5'-O5'-PA
47	BA	501	GTP	C4'-C5'-O5'-PA
47	BM	501	GTP	C4'-C5'-O5'-PA
47	CA	501	GTP	C4'-C5'-O5'-PA
47	CG	501	GTP	C4'-C5'-O5'-PA
47	CI	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	CM	501	GTP	C4'-C5'-O5'-PA
47	DE	501	GTP	C4'-C5'-O5'-PA
47	DI	501	GTP	C4'-C5'-O5'-PA
47	DK	501	GTP	C4'-C5'-O5'-PA
47	EA	501	GTP	C4'-C5'-O5'-PA
47	EC	501	GTP	C4'-C5'-O5'-PA
47	EE	501	GTP	C4'-C5'-O5'-PA
47	EG	501	GTP	C4'-C5'-O5'-PA
47	EK	501	GTP	C4'-C5'-O5'-PA
47	EM	501	GTP	C4'-C5'-O5'-PA
47	FA	501	GTP	C4'-C5'-O5'-PA
47	FC	501	GTP	C4'-C5'-O5'-PA
47	FG	501	GTP	C4'-C5'-O5'-PA
47	FK	501	GTP	C4'-C5'-O5'-PA
47	FM	501	GTP	C4'-C5'-O5'-PA
47	GK	501	GTP	C4'-C5'-O5'-PA
47	GM	501	GTP	C4'-C5'-O5'-PA
47	HA	501	GTP	C4'-C5'-O5'-PA
47	HG	501	GTP	C4'-C5'-O5'-PA
47	HM	501	GTP	C4'-C5'-O5'-PA
47	IA	501	GTP	C4'-C5'-O5'-PA
47	IG	501	GTP	C4'-C5'-O5'-PA
47	IM	501	GTP	C4'-C5'-O5'-PA
47	JA	501	GTP	C4'-C5'-O5'-PA
47	JC	501	GTP	C4'-C5'-O5'-PA
47	JE	501	GTP	C4'-C5'-O5'-PA
47	JI	501	GTP	C4'-C5'-O5'-PA
47	KC	501	GTP	C4'-C5'-O5'-PA
47	KE	501	GTP	C4'-C5'-O5'-PA
47	KI	501	GTP	C4'-C5'-O5'-PA
47	KK	501	GTP	C4'-C5'-O5'-PA
47	KM	501	GTP	C4'-C5'-O5'-PA
47	LC	501	GTP	C4'-C5'-O5'-PA
47	LM	501	GTP	C4'-C5'-O5'-PA
47	MA	501	GTP	C4'-C5'-O5'-PA
47	MI	501	GTP	C4'-C5'-O5'-PA
47	MM	501	GTP	C4'-C5'-O5'-PA
47	NA	501	GTP	C4'-C5'-O5'-PA
47	NE	501	GTP	C4'-C5'-O5'-PA
47	NI	501	GTP	C4'-C5'-O5'-PA
47	OC	501	GTP	C4'-C5'-O5'-PA
47	PA	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	PD	501	GTP	C4'-C5'-O5'-PA
47	PE	501	GTP	C4'-C5'-O5'-PA
47	PI	501	GTP	C4'-C5'-O5'-PA
47	PK	501	GTP	C4'-C5'-O5'-PA
47	PM	501	GTP	C4'-C5'-O5'-PA
47	QA	501	GTP	C4'-C5'-O5'-PA
47	RA	501	GTP	C4'-C5'-O5'-PA
47	RC	501	GTP	C4'-C5'-O5'-PA
47	RE	501	GTP	C4'-C5'-O5'-PA
47	RG	501	GTP	C4'-C5'-O5'-PA
47	RI	501	GTP	C4'-C5'-O5'-PA
47	RM	501	GTP	C4'-C5'-O5'-PA
47	SA	501	GTP	C4'-C5'-O5'-PA
47	SI	501	GTP	C4'-C5'-O5'-PA
47	SM	501	GTP	C4'-C5'-O5'-PA
47	TA	501	GTP	C4'-C5'-O5'-PA
47	TC	501	GTP	C4'-C5'-O5'-PA
47	TG	501	GTP	C4'-C5'-O5'-PA
47	TM	501	GTP	C4'-C5'-O5'-PA
47	UA	501	GTP	C4'-C5'-O5'-PA
47	UM	501	GTP	C4'-C5'-O5'-PA
47	VK	501	GTP	C4'-C5'-O5'-PA
47	VM	501	GTP	C4'-C5'-O5'-PA
47	WA	501	GTP	C4'-C5'-O5'-PA
47	WC	501	GTP	C4'-C5'-O5'-PA
47	WE	501	GTP	C4'-C5'-O5'-PA
47	WG	501	GTP	C4'-C5'-O5'-PA
47	WI	501	GTP	C4'-C5'-O5'-PA
47	WK	501	GTP	C4'-C5'-O5'-PA
47	WM	501	GTP	C4'-C5'-O5'-PA
47	CE	501	GTP	C4'-C5'-O5'-PA
47	DC	501	GTP	C4'-C5'-O5'-PA
47	AG	501	GTP	C3'-C4'-C5'-O5'
47	DK	501	GTP	C3'-C4'-C5'-O5'
47	HG	501	GTP	C3'-C4'-C5'-O5'
47	KM	501	GTP	O4'-C4'-C5'-O5'
47	DC	501	GTP	O4'-C4'-C5'-O5'
49	LD	501	GDP	C3'-C4'-C5'-O5'
49	LH	501	GDP	O4'-C4'-C5'-O5'
47	AC	501	GTP	PA-O3A-PB-O2B
47	AE	501	GTP	PA-O3A-PB-O2B
47	AG	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	AK	501	GTP	PB-O3A-PA-O1A
47	BE	501	GTP	PA-O3A-PB-O2B
47	BI	501	GTP	PA-O3A-PB-O2B
47	CC	501	GTP	PA-O3A-PB-O2B
47	CG	501	GTP	PA-O3A-PB-O2B
47	DE	501	GTP	PA-O3A-PB-O2B
47	DI	501	GTP	PA-O3A-PB-O2B
47	EA	501	GTP	PA-O3A-PB-O1B
47	EC	501	GTP	PA-O3A-PB-O2B
47	EE	501	GTP	PA-O3A-PB-O2B
47	EG	501	GTP	PA-O3A-PB-O2B
47	EK	501	GTP	PA-O3A-PB-O2B
47	EM	501	GTP	PA-O3A-PB-O2B
47	FC	501	GTP	PA-O3A-PB-O2B
47	FI	501	GTP	PA-O3A-PB-O2B
47	FK	501	GTP	PA-O3A-PB-O1B
47	GC	501	GTP	PA-O3A-PB-O2B
47	GE	501	GTP	PA-O3A-PB-O2B
47	GG	501	GTP	PA-O3A-PB-O2B
47	GI	501	GTP	PA-O3A-PB-O2B
47	HC	501	GTP	PA-O3A-PB-O2B
47	HI	501	GTP	PA-O3A-PB-O2B
47	HK	501	GTP	PA-O3A-PB-O2B
47	HM	501	GTP	PA-O3A-PB-O2B
47	IA	501	GTP	PA-O3A-PB-O2B
47	IE	501	GTP	PA-O3A-PB-O2B
47	IG	501	GTP	PA-O3A-PB-O1B
47	II	501	GTP	PA-O3A-PB-O2B
47	IK	501	GTP	PA-O3A-PB-O2B
47	IM	501	GTP	PA-O3A-PB-O1B
47	JA	501	GTP	PA-O3A-PB-O2B
47	JE	501	GTP	PA-O3A-PB-O2B
47	JG	501	GTP	PA-O3A-PB-O2B
47	JM	501	GTP	PA-O3A-PB-O2B
47	KC	501	GTP	PA-O3A-PB-O2B
47	KG	501	GTP	PA-O3A-PB-O2B
47	KK	501	GTP	PA-O3A-PB-O2B
47	LA	501	GTP	PA-O3A-PB-O2B
47	LE	501	GTP	PA-O3A-PB-O2B
47	LK	501	GTP	PB-O3A-PA-O1A
47	MA	501	GTP	PA-O3A-PB-O1B
47	ME	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	PD	501	GTP	PA-O3A-PB-O2B
47	PG	501	GTP	PA-O3A-PB-O2B
47	QC	501	GTP	PA-O3A-PB-O2B
47	QK	501	GTP	PB-O3A-PA-O1A
47	RC	501	GTP	PA-O3A-PB-O1B
47	RE	501	GTP	PA-O3A-PB-O2B
47	RG	501	GTP	PA-O3A-PB-O2B
47	RI	501	GTP	PA-O3A-PB-O2B
47	RK	501	GTP	PA-O3A-PB-O2B
47	SA	501	GTP	PA-O3A-PB-O1B
47	SI	501	GTP	PA-O3A-PB-O2B
47	TA	501	GTP	PA-O3A-PB-O1B
47	TC	501	GTP	PA-O3A-PB-O2B
47	TI	501	GTP	PA-O3A-PB-O1B
47	TK	501	GTP	PA-O3A-PB-O2B
47	TM	501	GTP	PA-O3A-PB-O1B
47	UA	501	GTP	PA-O3A-PB-O1B
47	UC	501	GTP	PA-O3A-PB-O2B
47	UE	501	GTP	PA-O3A-PB-O2B
47	UG	501	GTP	PA-O3A-PB-O1B
47	UM	501	GTP	PA-O3A-PB-O2B
47	WC	501	GTP	PB-O3A-PA-O1A
47	WG	501	GTP	PA-O3A-PB-O2B
47	WM	501	GTP	PA-O3A-PB-O2B
47	CE	501	GTP	PA-O3A-PB-O2B
47	DG	501	GTP	C3'-C4'-C5'-O5'
47	SI	501	GTP	C3'-C4'-C5'-O5'
47	UK	501	GTP	C3'-C4'-C5'-O5'
47	VI	501	GTP	C3'-C4'-C5'-O5'
49	RF	501	GDP	C3'-C4'-C5'-O5'
47	NK	501	GTP	C4'-C5'-O5'-PA
47	OG	501	GTP	C4'-C5'-O5'-PA
47	QI	501	GTP	C4'-C5'-O5'-PA
47	KA	501	GTP	O4'-C4'-C5'-O5'
47	WA	501	GTP	O4'-C4'-C5'-O5'
49	MJ	501	GDP	C3'-C4'-C5'-O5'
47	DG	501	GTP	C4'-C5'-O5'-PA
47	NM	501	GTP	C4'-C5'-O5'-PA
47	QM	501	GTP	C4'-C5'-O5'-PA
47	OA	501	GTP	C4'-C5'-O5'-PA
47	QG	501	GTP	C4'-C5'-O5'-PA
47	AI	501	GTP	O4'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
47	EG	501	GTP	O4'-C4'-C5'-O5'
47	FA	501	GTP	O4'-C4'-C5'-O5'
47	JE	501	GTP	O4'-C4'-C5'-O5'
47	KC	501	GTP	C3'-C4'-C5'-O5'
47	KI	501	GTP	O4'-C4'-C5'-O5'
47	LA	501	GTP	O4'-C4'-C5'-O5'
47	LC	501	GTP	O4'-C4'-C5'-O5'
47	LG	501	GTP	O4'-C4'-C5'-O5'
47	MG	501	GTP	O4'-C4'-C5'-O5'
47	NG	501	GTP	O4'-C4'-C5'-O5'
49	MB	501	GDP	O4'-C4'-C5'-O5'
47	DG	501	GTP	PB-O3A-PA-O1A
47	EA	501	GTP	PA-O3A-PB-O2B
47	FM	501	GTP	PA-O3A-PB-O1B
47	HK	501	GTP	PA-O3A-PB-O1B
47	IG	501	GTP	PA-O3A-PB-O2B
47	JI	501	GTP	PA-O3A-PB-O2B
47	JK	501	GTP	PA-O3A-PB-O2B
47	JK	501	GTP	PB-O3A-PA-O1A
47	ME	501	GTP	PA-O3A-PB-O1B
47	NA	501	GTP	PB-O3A-PA-O1A
47	PD	501	GTP	PA-O3A-PB-O1B
47	PK	501	GTP	PA-O3A-PB-O2B
47	QM	501	GTP	PA-O3A-PB-O2B
47	RA	501	GTP	PA-O3A-PB-O2B
47	RC	501	GTP	PA-O3A-PB-O2B
47	RI	501	GTP	PA-O3A-PB-O1B
47	SA	501	GTP	PA-O3A-PB-O2B
47	TA	501	GTP	PA-O3A-PB-O2B
47	TC	501	GTP	PA-O3A-PB-O1B
47	UA	501	GTP	PA-O3A-PB-O2B
47	UE	501	GTP	PA-O3A-PB-O1B
47	VM	501	GTP	PA-O3A-PB-O2B
47	WE	501	GTP	PA-O3A-PB-O2B
47	WG	501	GTP	PA-O3A-PB-O1B
47	AA	501	GTP	PB-O3A-PA-O5'
47	LK	501	GTP	PB-O3A-PA-O5'
47	OM	501	GTP	PB-O3A-PA-O5'
47	QK	501	GTP	PB-O3A-PA-O5'
47	LG	501	GTP	C4'-C5'-O5'-PA
47	NC	501	GTP	C4'-C5'-O5'-PA
47	NG	501	GTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
47	OF	501	GTP	C4'-C5'-O5'-PA
49	LF	501	GDP	C3'-C4'-C5'-O5'
49	RJ	501	GDP	O4'-C4'-C5'-O5'
49	TD	501	GDP	O4'-C4'-C5'-O5'
47	JI	501	GTP	O4'-C4'-C5'-O5'
49	LJ	501	GDP	C3'-C4'-C5'-O5'
49	SD	501	GDP	C3'-C4'-C5'-O5'
49	WJ	501	GDP	O4'-C4'-C5'-O5'
47	NG	501	GTP	PB-O3B-PG-O1G
47	NK	501	GTP	PB-O3B-PG-O2G
47	OG	501	GTP	PB-O3B-PG-O2G
47	OI	501	GTP	C4'-C5'-O5'-PA
47	OM	501	GTP	C4'-C5'-O5'-PA
47	DE	501	GTP	O4'-C4'-C5'-O5'
47	HC	501	GTP	C3'-C4'-C5'-O5'
47	KE	501	GTP	O4'-C4'-C5'-O5'
47	KG	501	GTP	O4'-C4'-C5'-O5'
47	TK	501	GTP	O4'-C4'-C5'-O5'
49	FJ	501	GDP	O4'-C4'-C5'-O5'
47	DK	501	GTP	O4'-C4'-C5'-O5'
47	JA	501	GTP	O4'-C4'-C5'-O5'
49	DD	501	GDP	C3'-C4'-C5'-O5'
49	SL	501	GDP	C3'-C4'-C5'-O5'
47	AC	501	GTP	PA-O3A-PB-O1B
47	AE	501	GTP	PA-O3A-PB-O1B
47	AG	501	GTP	PA-O3A-PB-O1B
47	AM	501	GTP	PA-O3A-PB-O2B
47	BA	501	GTP	PA-O3A-PB-O2B
47	BC	502	GTP	PA-O3A-PB-O1B
47	BE	501	GTP	PA-O3A-PB-O1B
47	BG	501	GTP	PA-O3A-PB-O1B
47	BI	501	GTP	PA-O3A-PB-O1B
47	BK	501	GTP	PA-O3A-PB-O2B
47	CA	501	GTP	PA-O3A-PB-O2B
47	CC	501	GTP	PA-O3A-PB-O1B
47	CG	501	GTP	PA-O3A-PB-O1B
47	CI	501	GTP	PA-O3A-PB-O2B
47	DA	501	GTP	PA-O3A-PB-O1B
47	DE	501	GTP	PA-O3A-PB-O1B
47	DI	501	GTP	PA-O3A-PB-O1B
47	DK	501	GTP	PA-O3A-PB-O1B
47	FA	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	FC	501	GTP	PA-O3A-PB-O1B
47	FE	501	GTP	PA-O3A-PB-O2B
47	FG	501	GTP	PA-O3A-PB-O1B
47	FK	501	GTP	PA-O3A-PB-O2B
47	FM	501	GTP	PA-O3A-PB-O2B
47	GA	501	GTP	PA-O3A-PB-O2B
47	GG	501	GTP	PA-O3A-PB-O1B
47	GK	501	GTP	PA-O3A-PB-O2B
47	GM	501	GTP	PA-O3A-PB-O2B
47	HG	501	GTP	PA-O3A-PB-O2B
47	HM	501	GTP	PA-O3A-PB-O1B
47	IC	501	GTP	PA-O3A-PB-O1B
47	IE	501	GTP	PA-O3A-PB-O1B
47	II	501	GTP	PA-O3A-PB-O1B
47	IM	501	GTP	PA-O3A-PB-O2B
47	JC	501	GTP	PB-O3A-PA-O1A
47	JI	501	GTP	PA-O3A-PB-O1B
47	KA	501	GTP	PA-O3A-PB-O1B
47	KK	501	GTP	PA-O3A-PB-O1B
47	LA	501	GTP	PA-O3A-PB-O1B
47	LC	501	GTP	PB-O3A-PA-O2A
47	LG	501	GTP	PB-O3A-PA-O1A
47	LI	501	GTP	PA-O3A-PB-O1B
47	LK	501	GTP	PA-O3A-PB-O2B
47	LM	501	GTP	PA-O3A-PB-O1B
47	MA	501	GTP	PA-O3A-PB-O2B
47	MC	501	GTP	PA-O3A-PB-O1B
47	NE	501	GTP	PB-O3A-PA-O1A
47	OK	501	GTP	PB-O3A-PA-O2A
47	PA	501	GTP	PA-O3A-PB-O1B
47	PK	501	GTP	PA-O3A-PB-O1B
47	QA	501	GTP	PA-O3A-PB-O2B
47	QC	501	GTP	PA-O3A-PB-O1B
47	QI	501	GTP	PA-O3A-PB-O1B
47	QK	501	GTP	PA-O3A-PB-O1B
47	QK	501	GTP	PA-O3A-PB-O2B
47	QM	501	GTP	PA-O3A-PB-O1B
47	RE	501	GTP	PA-O3A-PB-O1B
47	RG	501	GTP	PA-O3A-PB-O1B
47	RM	501	GTP	PA-O3A-PB-O1B
47	SE	501	GTP	PA-O3A-PB-O2B
47	SG	501	GTP	PA-O3A-PB-O2B

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Mol	Chain	Res	Type	Atoms
47	SK	501	GTP	PA-O3A-PB-O2B
47	SM	501	GTP	PA-O3A-PB-O1B
47	TE	501	GTP	PA-O3A-PB-O1B
47	TK	501	GTP	PA-O3A-PB-O1B
47	TM	501	GTP	PA-O3A-PB-O2B
47	UC	501	GTP	PA-O3A-PB-O1B
47	UI	501	GTP	PA-O3A-PB-O2B
47	VC	501	GTP	PA-O3A-PB-O1B
47	VE	501	GTP	PB-O3A-PA-O1A
47	VG	501	GTP	PA-O3A-PB-O1B
47	VG	501	GTP	PA-O3A-PB-O2B
47	VK	501	GTP	PA-O3A-PB-O1B
47	WE	501	GTP	PA-O3A-PB-O1B
47	WM	501	GTP	PA-O3A-PB-O1B
47	CE	501	GTP	PA-O3A-PB-O1B
47	DC	501	GTP	PA-O3A-PB-O1B
47	DC	501	GTP	PA-O3A-PB-O2B
49	BN	501	GDP	O4'-C4'-C5'-O5'
47	OG	501	GTP	PB-O3B-PG-O1G
47	AG	501	GTP	O4'-C4'-C5'-O5'
47	DG	501	GTP	O4'-C4'-C5'-O5'
47	HG	501	GTP	O4'-C4'-C5'-O5'
47	SI	501	GTP	O4'-C4'-C5'-O5'
47	VI	501	GTP	O4'-C4'-C5'-O5'
49	RF	501	GDP	O4'-C4'-C5'-O5'
47	EE	501	GTP	PA-O3A-PB-O1B
47	EG	501	GTP	PA-O3A-PB-O1B
47	EK	501	GTP	PA-O3A-PB-O1B
47	EM	501	GTP	PA-O3A-PB-O1B
47	FI	501	GTP	PA-O3A-PB-O1B
47	GC	501	GTP	PA-O3A-PB-O1B
47	GI	501	GTP	PA-O3A-PB-O1B
47	HC	501	GTP	PA-O3A-PB-O1B
47	HI	501	GTP	PA-O3A-PB-O1B
47	IA	501	GTP	PA-O3A-PB-O1B
47	IK	501	GTP	PA-O3A-PB-O1B
47	JA	501	GTP	PA-O3A-PB-O1B
47	JE	501	GTP	PA-O3A-PB-O1B
47	JG	501	GTP	PA-O3A-PB-O1B
47	JM	501	GTP	PA-O3A-PB-O1B
47	KC	501	GTP	PA-O3A-PB-O1B
47	KG	501	GTP	PA-O3A-PB-O1B

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Mol	Chain	Res	Type	Atoms
47	LE	501	GTP	PA-O3A-PB-O1B
47	NI	501	GTP	PB-O3A-PA-O2A
47	NM	501	GTP	PB-O3A-PA-O2A
47	PE	501	GTP	PA-O3A-PB-O2B
47	PG	501	GTP	PA-O3A-PB-O1B
47	QE	501	GTP	PA-O3A-PB-O2B
47	QG	501	GTP	PB-O3A-PA-O2A
47	RK	501	GTP	PA-O3A-PB-O1B
47	SI	501	GTP	PA-O3A-PB-O1B
47	UK	501	GTP	PA-O3A-PB-O2B
47	UM	501	GTP	PA-O3A-PB-O1B
47	VI	501	GTP	PB-O3A-PA-O2A
47	WI	501	GTP	PA-O3A-PB-O2B
47	UK	501	GTP	O4'-C4'-C5'-O5'
49	AB	501	GDP	C3'-C4'-C5'-O5'
49	LD	501	GDP	O4'-C4'-C5'-O5'
49	TJ	501	GDP	C3'-C4'-C5'-O5'

There are no ring outliers.

250 monomers are involved in 484 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	WI	501	GTP	3	0
47	QG	501	GTP	5	0
47	VK	501	GTP	1	0
49	IB	501	GDP	1	0
49	IJ	501	GDP	3	0
49	RL	501	GDP	1	0
47	IM	501	GTP	3	0
49	NJ	501	GDP	1	0
47	KG	501	GTP	2	0
49	CF	501	GDP	6	0
49	BL	501	GDP	2	0
47	LG	501	GTP	2	0
47	RI	501	GTP	1	0
49	ED	501	GDP	1	0
49	RN	501	GDP	1	0
47	RC	501	GTP	3	0
49	UL	501	GDP	2	0
49	JL	501	GDP	1	0
47	ME	501	GTP	1	0
47	DG	501	GTP	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	KH	501	GDP	1	0
49	DD	501	GDP	2	0
47	AM	501	GTP	2	0
47	EI	501	GTP	1	0
49	OD	501	GDP	2	0
49	WH	501	GDP	2	0
47	CA	501	GTP	2	0
49	FN	501	GDP	1	0
47	JG	501	GTP	2	0
47	QA	501	GTP	2	0
49	JF	501	GDP	1	0
49	FJ	501	GDP	1	0
49	BH	501	GDP	2	0
49	SJ	501	GDP	1	0
47	GK	501	GTP	1	0
47	PK	501	GTP	4	0
47	VA	501	GTP	3	0
47	SA	501	GTP	2	0
47	VE	501	GTP	4	0
49	VF	501	GDP	2	0
49	UH	501	GDP	1	0
49	VN	501	GDP	2	0
49	TF	501	GDP	1	0
49	VH	501	GDP	2	0
47	UI	501	GTP	3	0
49	FF	501	GDP	2	0
49	MH	501	GDP	1	0
49	DN	501	GDP	1	0
49	LN	501	GDP	2	0
47	TG	501	GTP	1	0
49	IL	501	GDP	4	0
47	LC	501	GTP	3	0
47	PI	501	GTP	4	0
47	RK	501	GTP	3	0
47	TK	501	GTP	2	0
49	HJ	501	GDP	2	0
47	FC	501	GTP	2	0
49	CB	501	GDP	2	0
47	MM	501	GTP	4	0
47	QI	501	GTP	3	0
47	BE	501	GTP	4	0
47	OM	501	GTP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	UE	501	GTP	3	0
49	QD	501	GDP	1	0
49	TH	501	GDP	1	0
47	SE	501	GTP	2	0
49	QF	501	GDP	6	0
47	BG	501	GTP	1	0
47	CC	501	GTP	1	0
47	GI	501	GTP	1	0
49	PH	501	GDP	2	0
47	WK	501	GTP	3	0
47	BI	501	GTP	3	0
49	WD	501	GDP	3	0
49	HN	501	GDP	1	0
49	EH	501	GDP	4	0
49	EF	501	GDP	1	0
49	AN	501	GDP	1	0
47	BK	501	GTP	1	0
49	PN	502	GDP	3	0
47	TE	501	GTP	1	0
49	AF	501	GDP	1	0
47	CK	501	GTP	1	0
47	VG	501	GTP	4	0
47	NG	501	GTP	1	0
47	PA	501	GTP	2	0
47	KI	501	GTP	1	0
47	DM	501	GTP	2	0
47	VC	501	GTP	3	0
47	BA	501	GTP	1	0
47	UC	501	GTP	1	0
49	PJ	501	GDP	1	0
49	JJ	501	GDP	2	0
49	FL	502	GDP	2	0
47	DK	501	GTP	3	0
47	PM	501	GTP	2	0
47	EK	501	GTP	3	0
47	OI	501	GTP	3	0
47	IE	501	GTP	3	0
49	DF	501	GDP	1	0
49	VJ	501	GDP	4	0
47	EM	501	GTP	2	0
47	GG	501	GTP	1	0
49	DL	501	GDP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	GJ	501	GDP	1	0
47	UA	501	GTP	2	0
47	OG	501	GTP	4	0
47	BM	501	GTP	1	0
49	GN	502	GDP	1	0
49	WL	501	GDP	2	0
47	SC	501	GTP	2	0
47	EA	501	GTP	2	0
47	FK	501	GTP	1	0
49	GL	502	GDP	3	0
47	KC	501	GTP	2	0
49	TJ	501	GDP	1	0
47	TA	501	GTP	2	0
47	LK	501	GTP	2	0
49	HB	501	GDP	1	0
49	BJ	501	GDP	2	0
47	AK	501	GTP	1	0
47	HA	501	GTP	1	0
47	KE	501	GTP	2	0
47	PD	501	GTP	3	0
47	HM	501	GTP	1	0
49	VD	501	GDP	1	0
47	DE	501	GTP	2	0
49	MJ	501	GDP	3	0
49	RH	501	GDP	1	0
49	UJ	501	GDP	3	0
47	KA	501	GTP	2	0
49	DH	501	GDP	2	0
47	SI	501	GTP	1	0
49	BD	501	GDP	2	0
49	IN	501	GDP	3	0
47	AI	501	GTP	1	0
49	AH	501	GDP	2	0
47	DI	501	GTP	4	0
47	VM	501	GTP	2	0
47	RA	501	GTP	2	0
49	IF	501	GDP	1	0
49	EL	501	GDP	3	0
49	HH	501	GDP	2	0
47	QM	501	GTP	2	0
47	DA	501	GTP	2	0
47	LI	501	GTP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
47	EE	501	GTP	1	0
47	AG	501	GTP	1	0
49	OJ	501	GDP	2	0
47	JI	501	GTP	1	0
47	SM	501	GTP	1	0
47	CI	501	GTP	2	0
47	PG	501	GTP	3	0
47	JC	501	GTP	2	0
49	GF	501	GDP	1	0
49	FH	501	GDP	4	0
47	SK	501	GTP	4	0
49	OL	501	GDP	1	0
49	NB	501	GDP	1	0
47	IG	501	GTP	2	0
49	TL	501	GDP	1	0
47	TI	501	GTP	1	0
49	JH	501	GDP	1	0
49	WF	501	GDP	1	0
47	HG	501	GTP	1	0
49	HF	501	GDP	2	0
49	ON	501	GDP	2	0
47	UM	501	GTP	1	0
47	CG	501	GTP	2	0
49	VL	501	GDP	3	0
47	QE	501	GTP	4	0
47	EC	501	GTP	3	0
47	CM	501	GTP	1	0
49	PB	501	GDP	1	0
49	AJ	501	GDP	2	0
47	OF	501	GTP	4	0
49	EN	501	GDP	5	0
49	RB	501	GDP	1	0
47	CE	501	GTP	1	0
47	NI	501	GTP	1	0
47	MC	501	GTP	1	0
49	JN	501	GDP	1	0
47	TM	501	GTP	3	0
49	OB	501	GDP	2	0
49	LL	501	GDP	1	0
49	JD	501	GDP	1	0
49	OF	502	GDP	3	0
47	OK	501	GTP	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	KF	501	GDP	1	0
49	QH	501	GDP	1	0
49	QN	501	GDP	1	0
47	GM	501	GTP	2	0
47	QK	501	GTP	2	0
49	TN	501	GDP	1	0
49	GD	501	GDP	2	0
49	RJ	501	GDP	3	0
47	WM	501	GTP	1	0
47	UG	501	GTP	1	0
47	TC	501	GTP	3	0
47	IK	501	GTP	3	0
49	HL	501	GDP	1	0
49	CJ	501	GDP	4	0
49	QL	501	GDP	1	0
49	BF	501	GDP	4	0
49	SN	501	GDP	1	0
47	NK	501	GTP	1	0
47	JA	501	GTP	1	0
47	WE	501	GTP	1	0
49	CD	501	GDP	2	0
47	RG	501	GTP	2	0
49	QJ	501	GDP	3	0
47	AA	501	GTP	3	0
47	FM	501	GTP	2	0
49	UF	501	GDP	5	0
49	UD	501	GDP	2	0
49	QB	501	GDP	1	0
49	UN	501	GDP	1	0
49	DJ	501	GDP	2	0
49	SF	501	GDP	1	0
49	SB	501	GDP	1	0
47	HE	501	GTP	2	0
47	RE	501	GTP	3	0
47	WG	501	GTP	1	0
47	LM	501	GTP	1	0
47	NE	501	GTP	1	0
49	AL	501	GDP	1	0
47	OC	501	GTP	1	0
47	DC	501	GTP	3	0
47	QC	501	GTP	3	0
47	AC	501	GTP	1	0

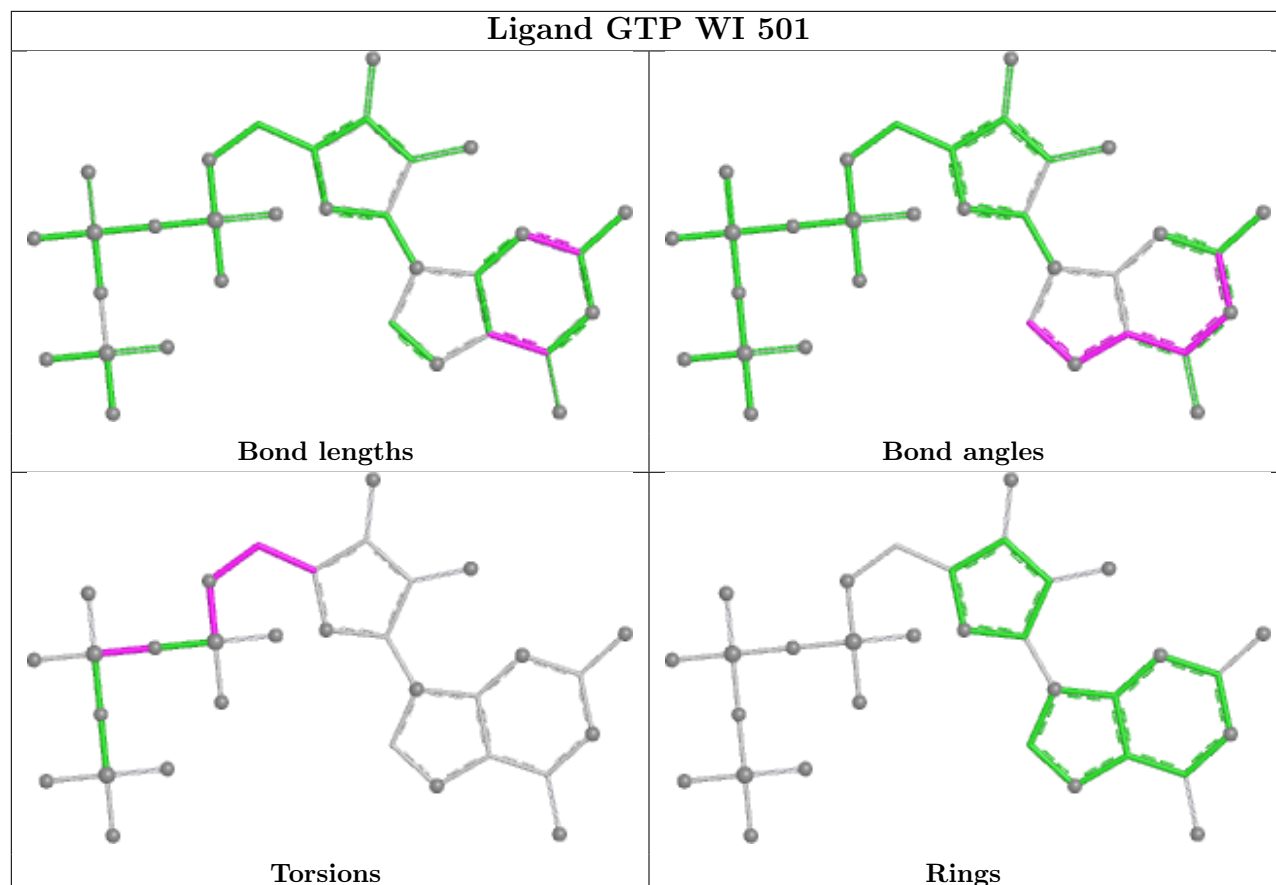
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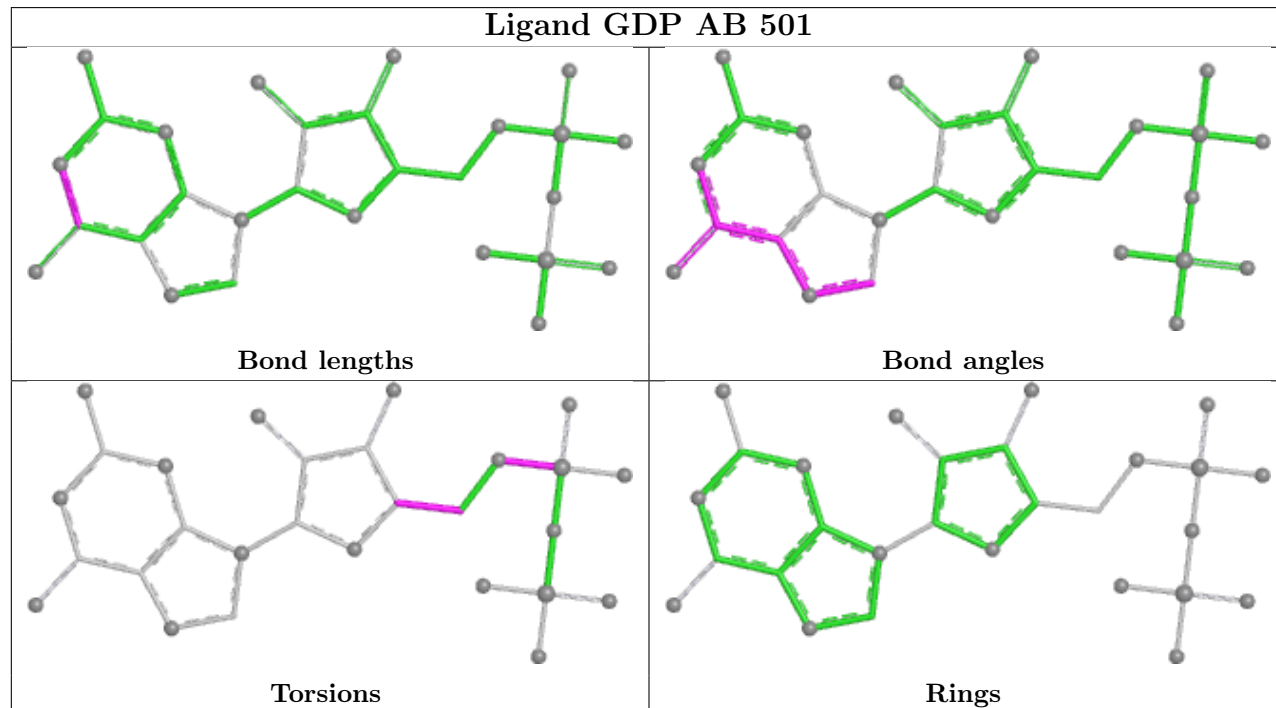
Mol	Chain	Res	Type	Clashes	Symm-Clashes
49	TD	501	GDP	1	0
47	FA	501	GTP	3	0
47	FE	501	GTP	1	0
47	GE	501	GTP	1	0
49	CH	501	GDP	1	0
47	NM	501	GTP	2	0
47	EG	501	GTP	2	0
49	LJ	501	GDP	2	0
47	LA	501	GTP	1	0
49	VB	501	GDP	1	0
49	IH	501	GDP	3	0
47	GC	501	GTP	1	0
47	RM	501	GTP	2	0
49	HD	501	GDP	1	0
47	KM	501	GTP	3	0
47	WA	501	GTP	3	0
47	JK	501	GTP	2	0
49	MF	501	GDP	2	0
47	NA	501	GTP	3	0
47	PE	501	GTP	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

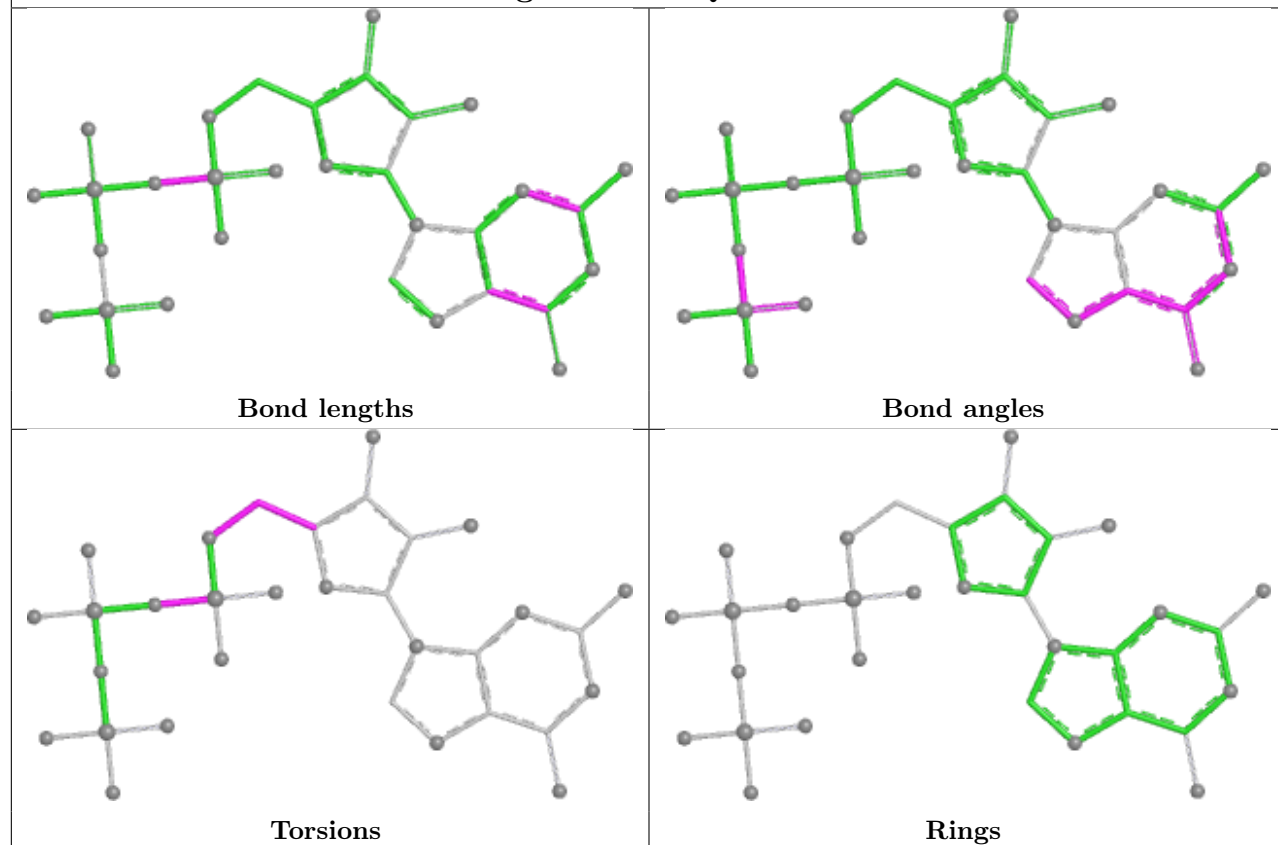
Ligand GTP WI 501



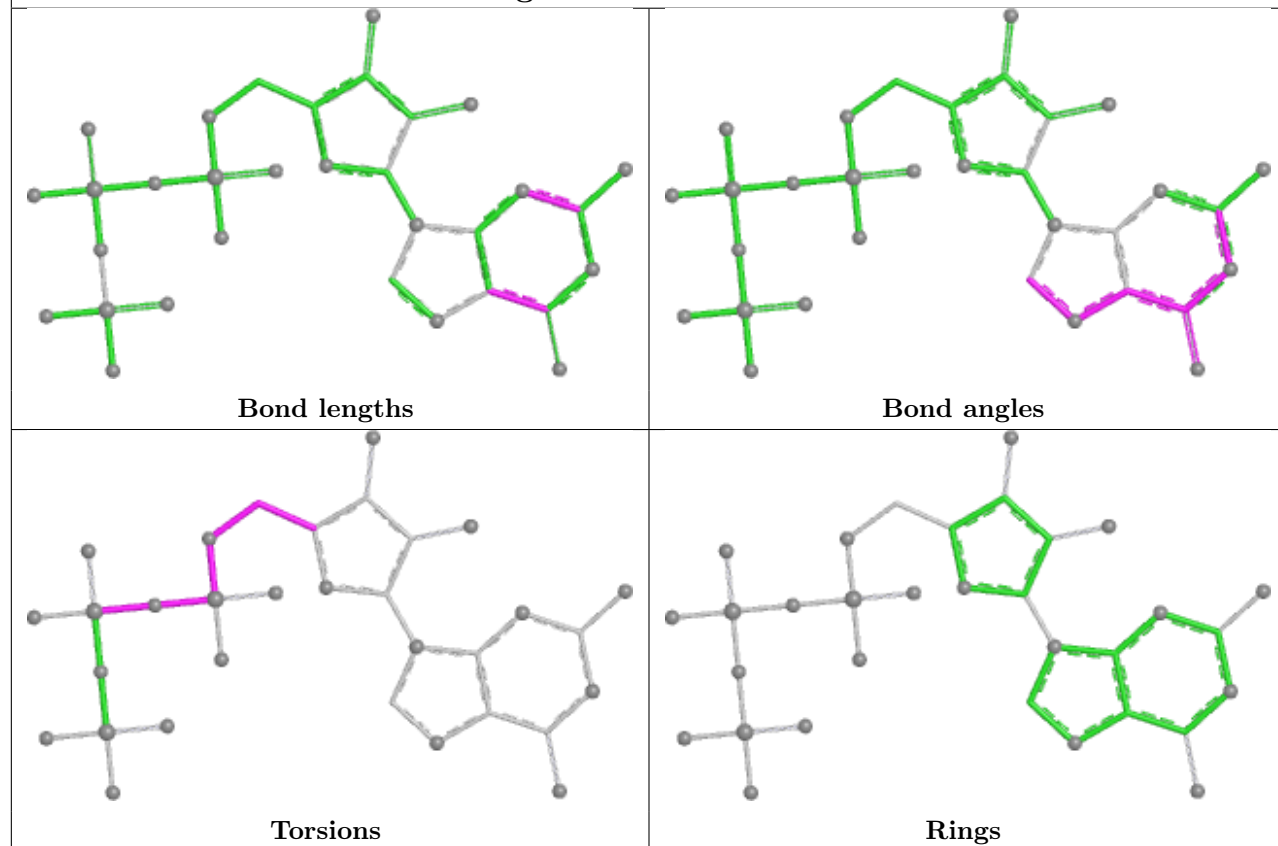
Ligand GDP AB 501

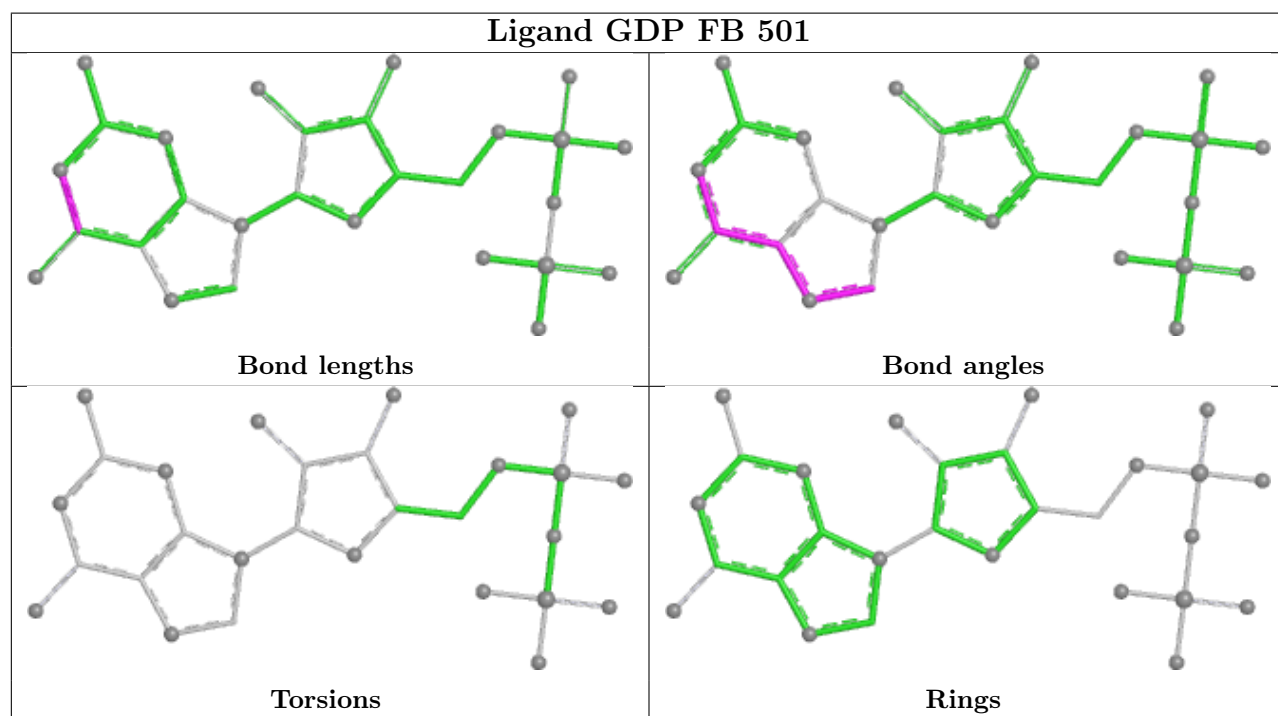
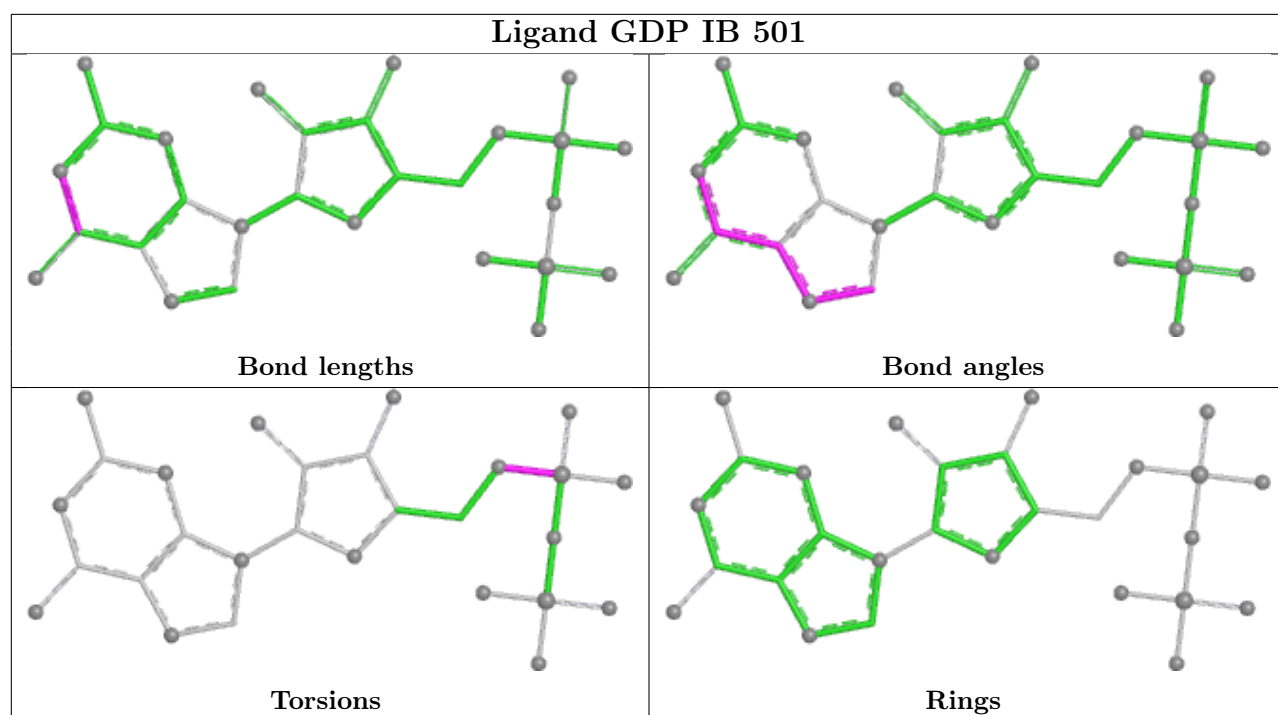


Ligand GTP QG 501

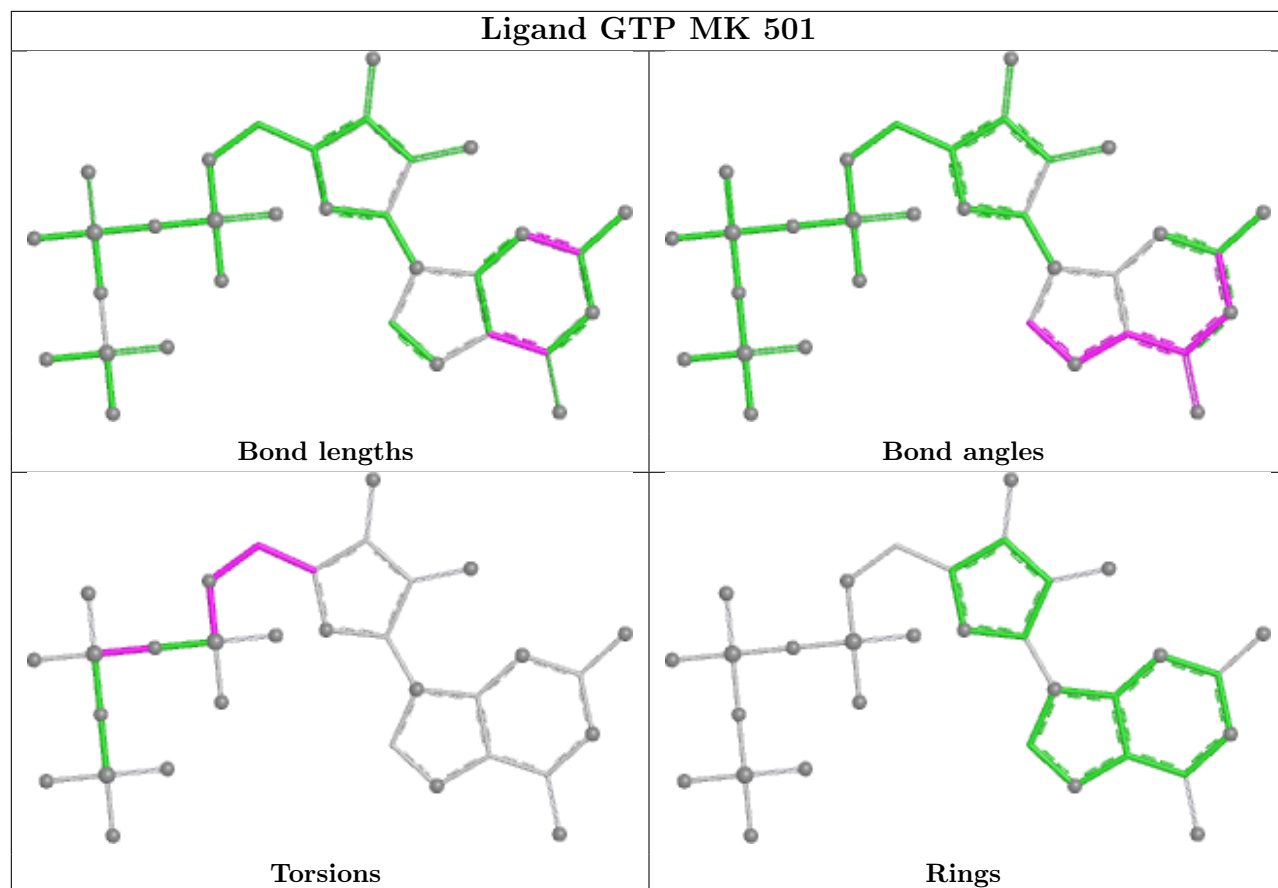


Ligand GTP VK 501

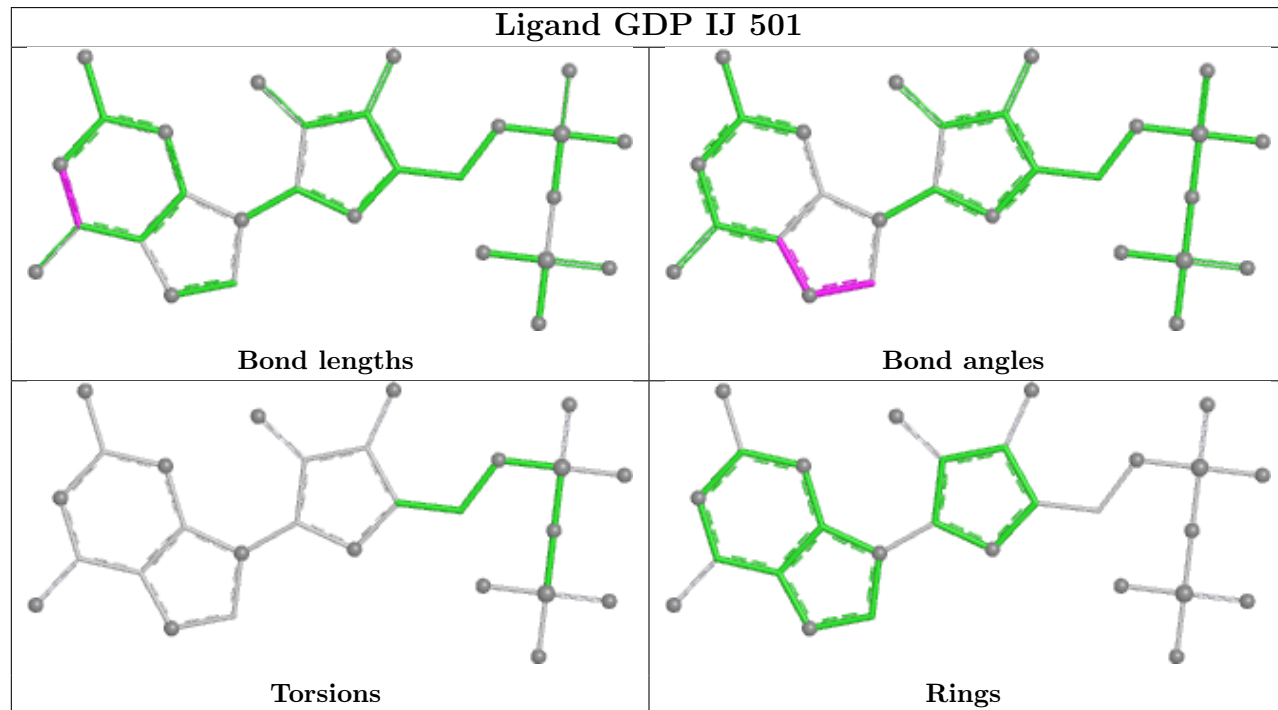


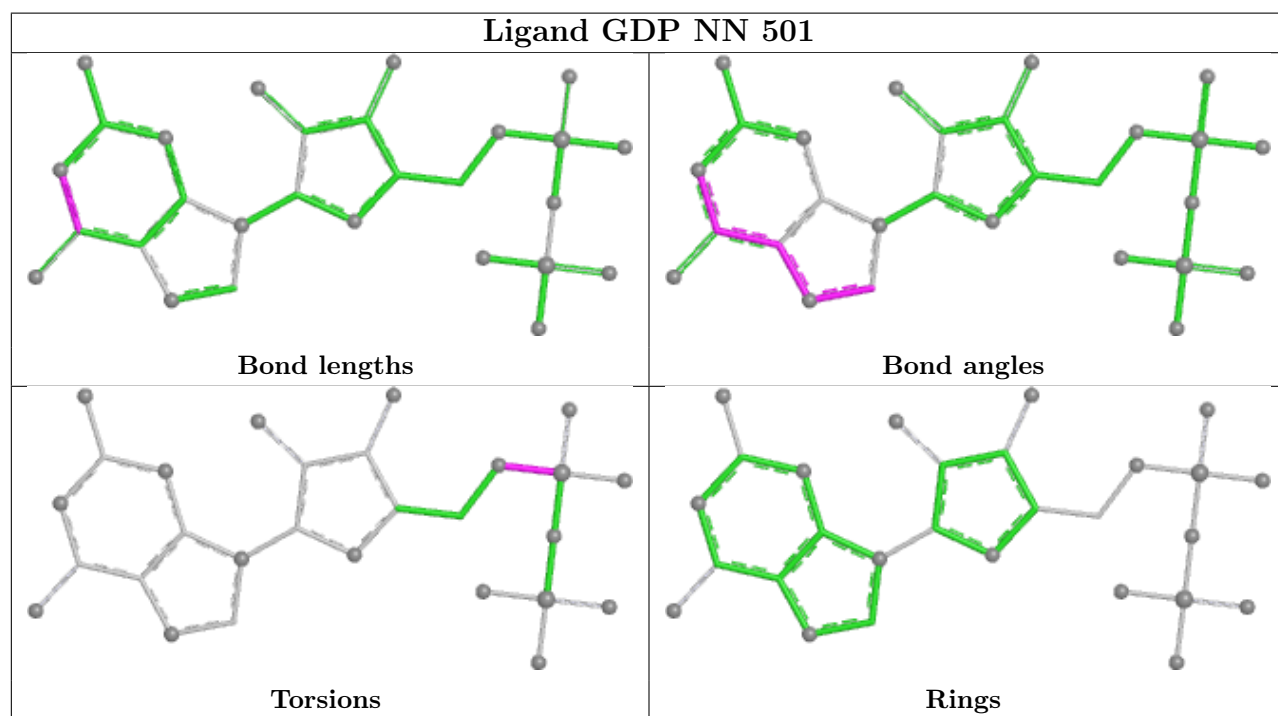
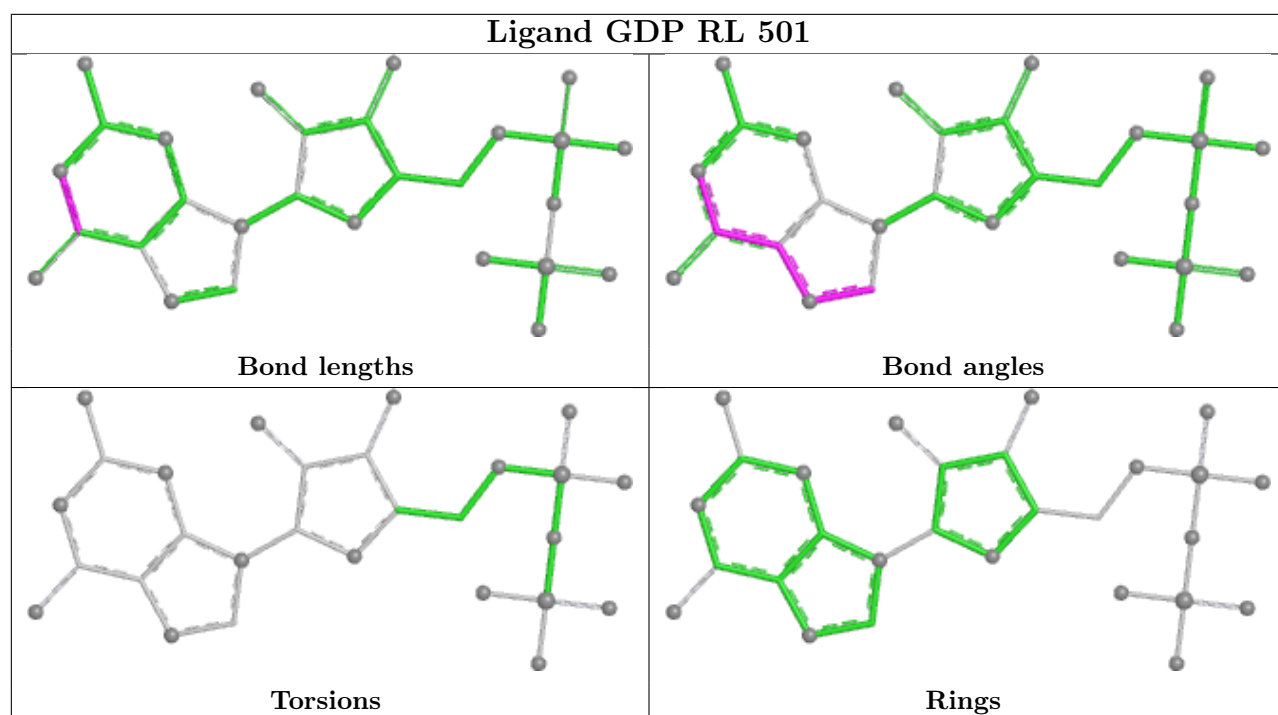


Ligand GTP MK 501

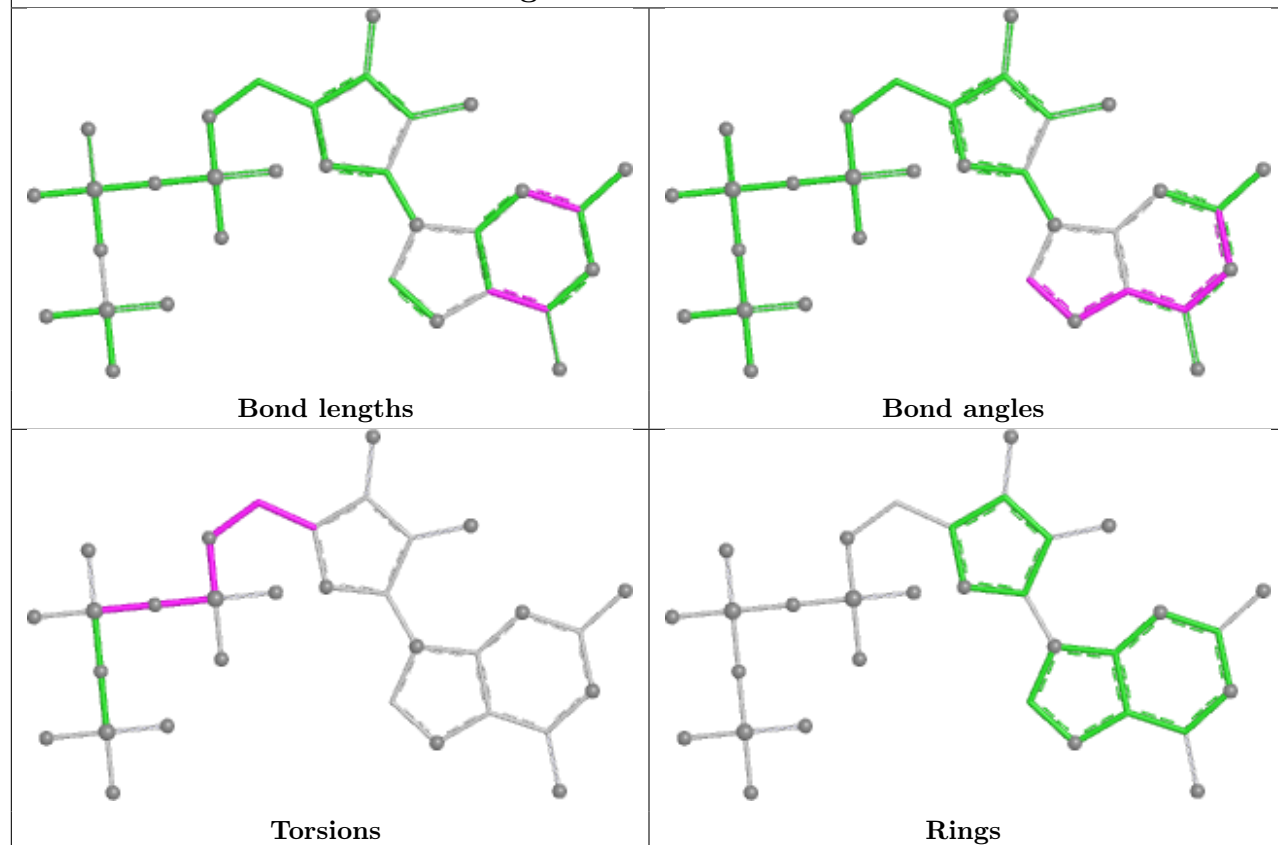


Ligand GDP IJ 501

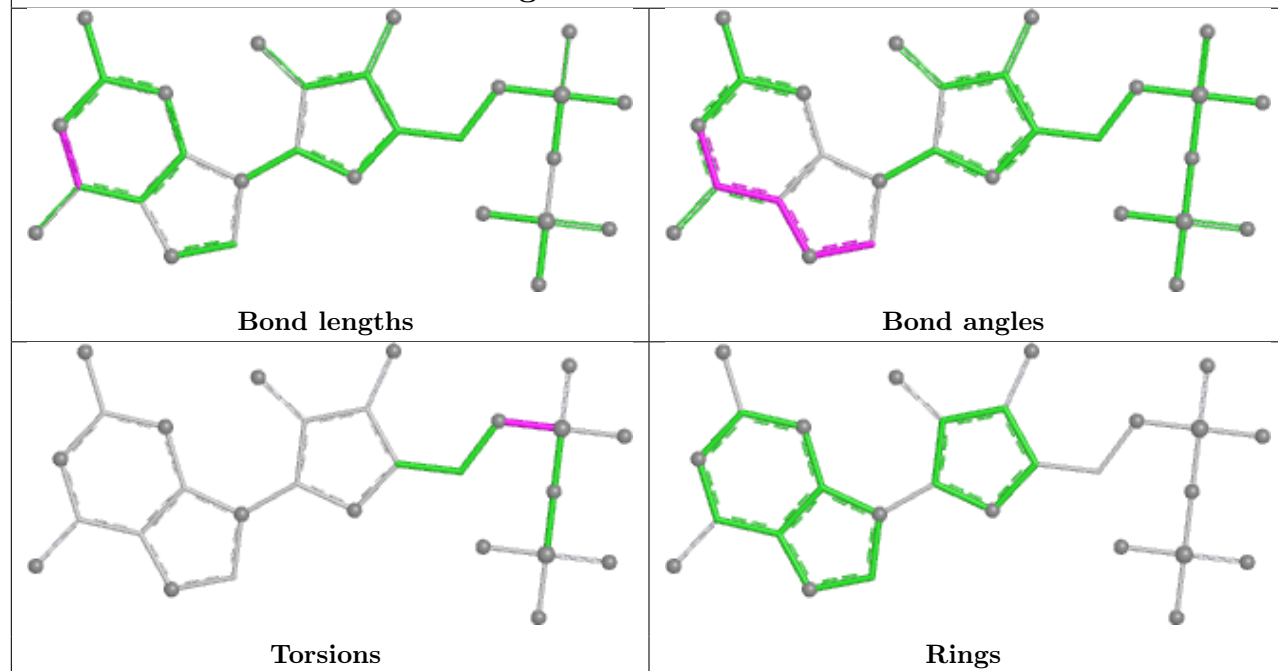


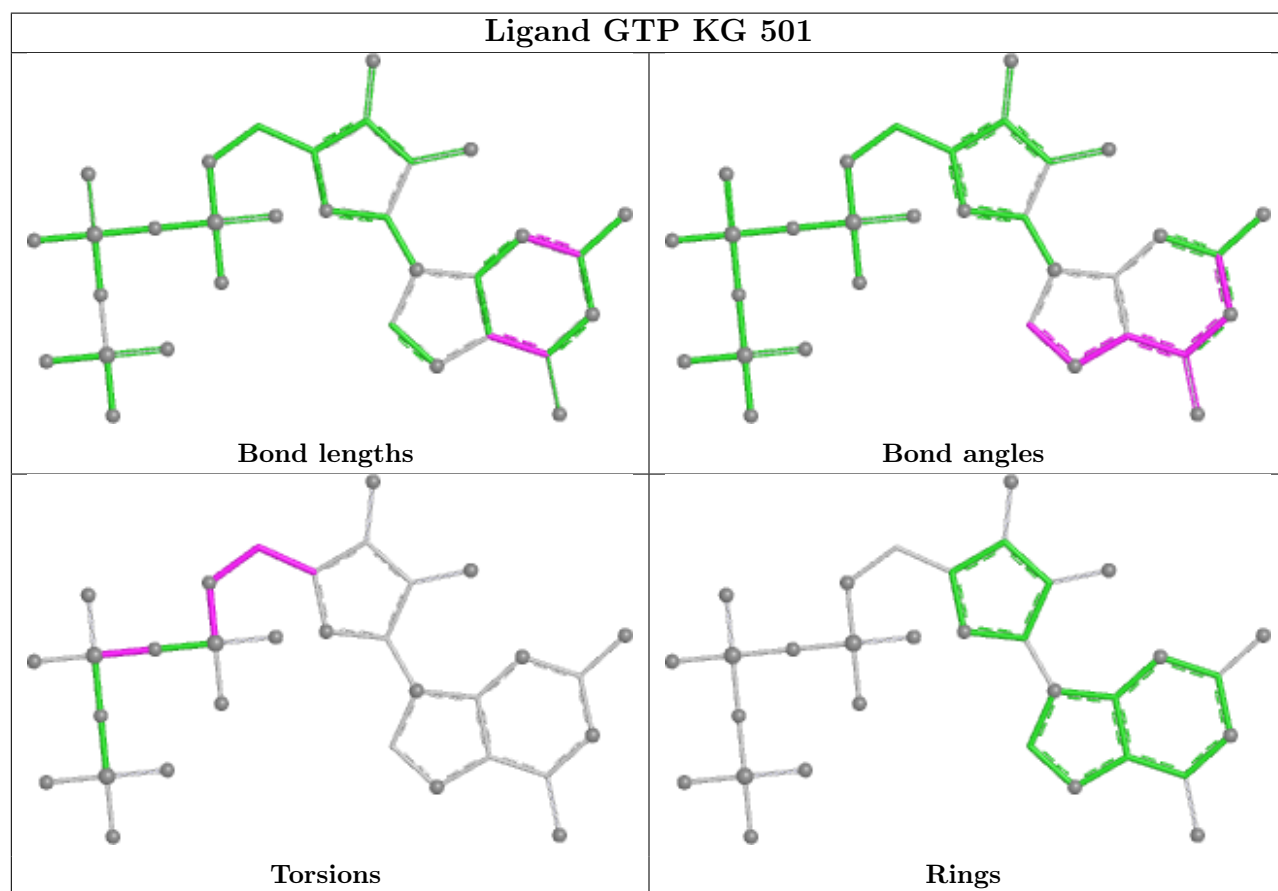
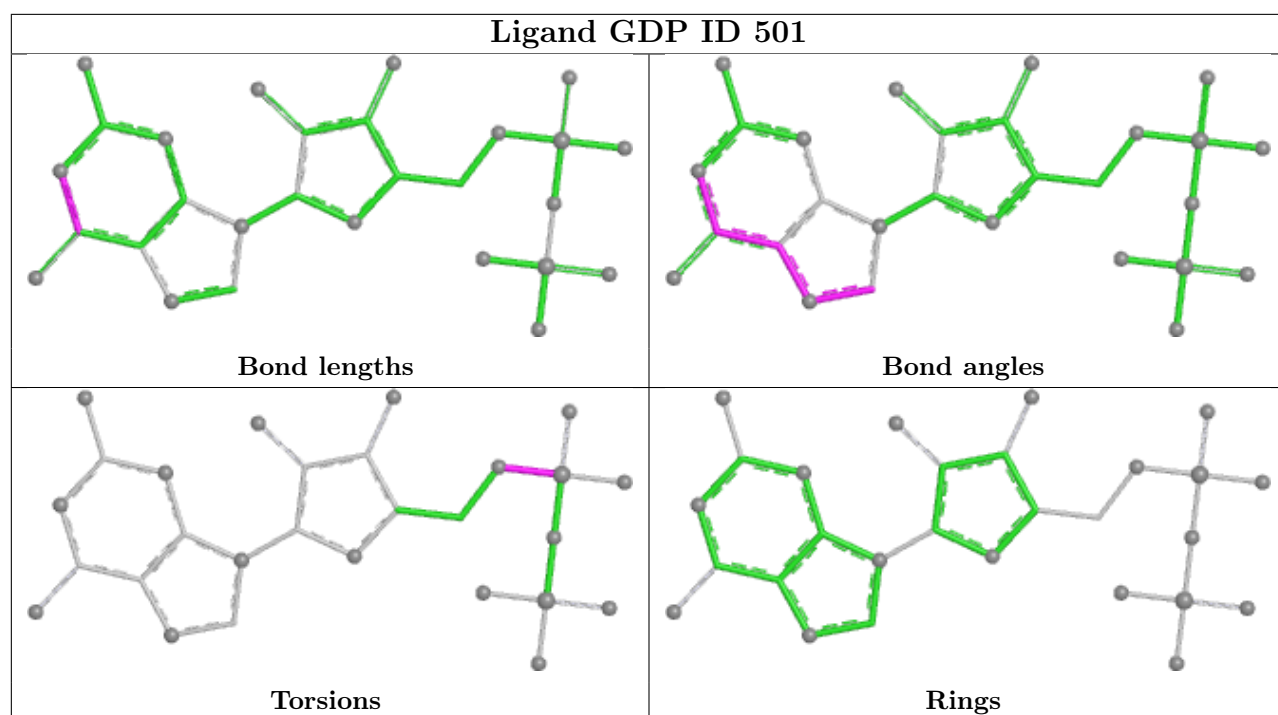


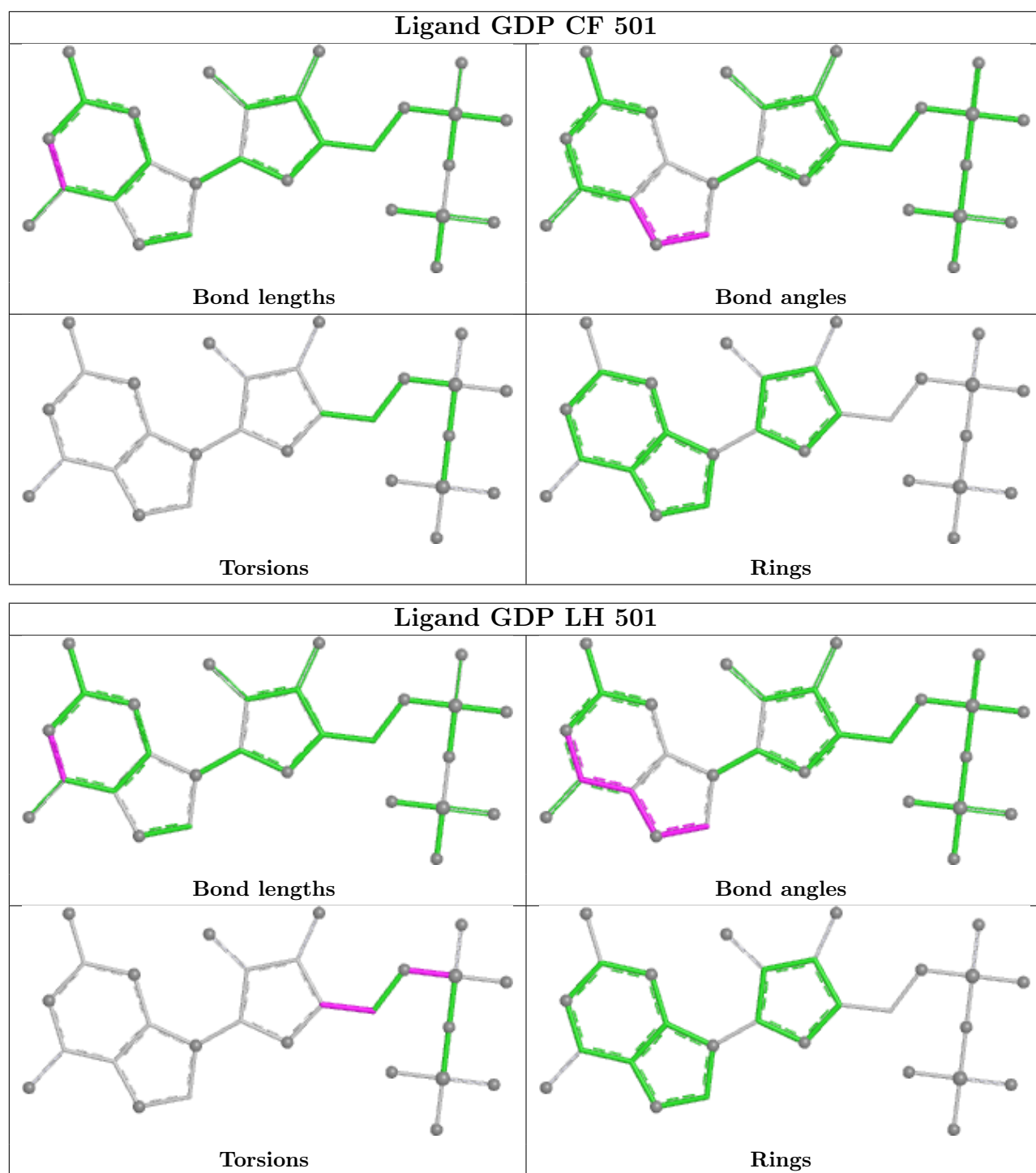
Ligand GTP IM 501

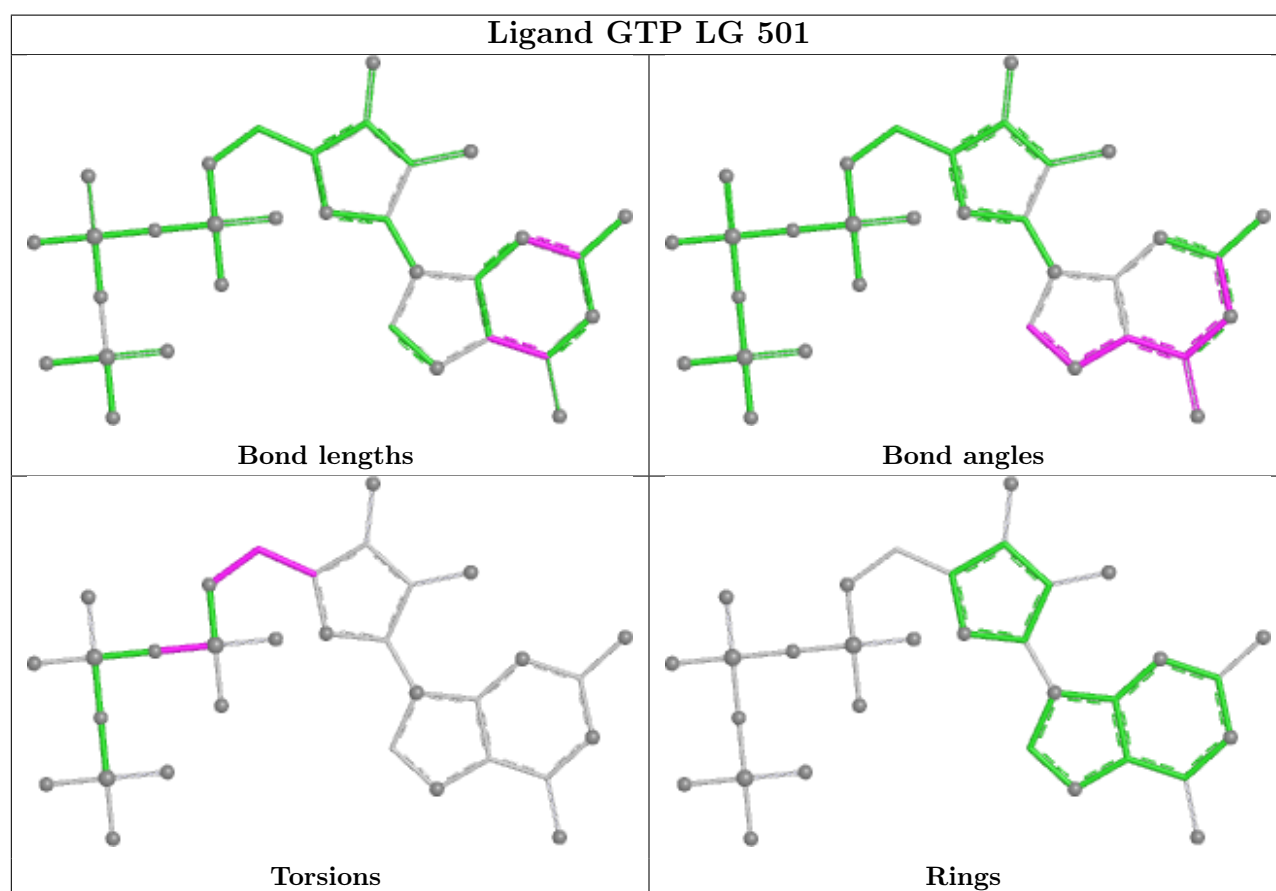
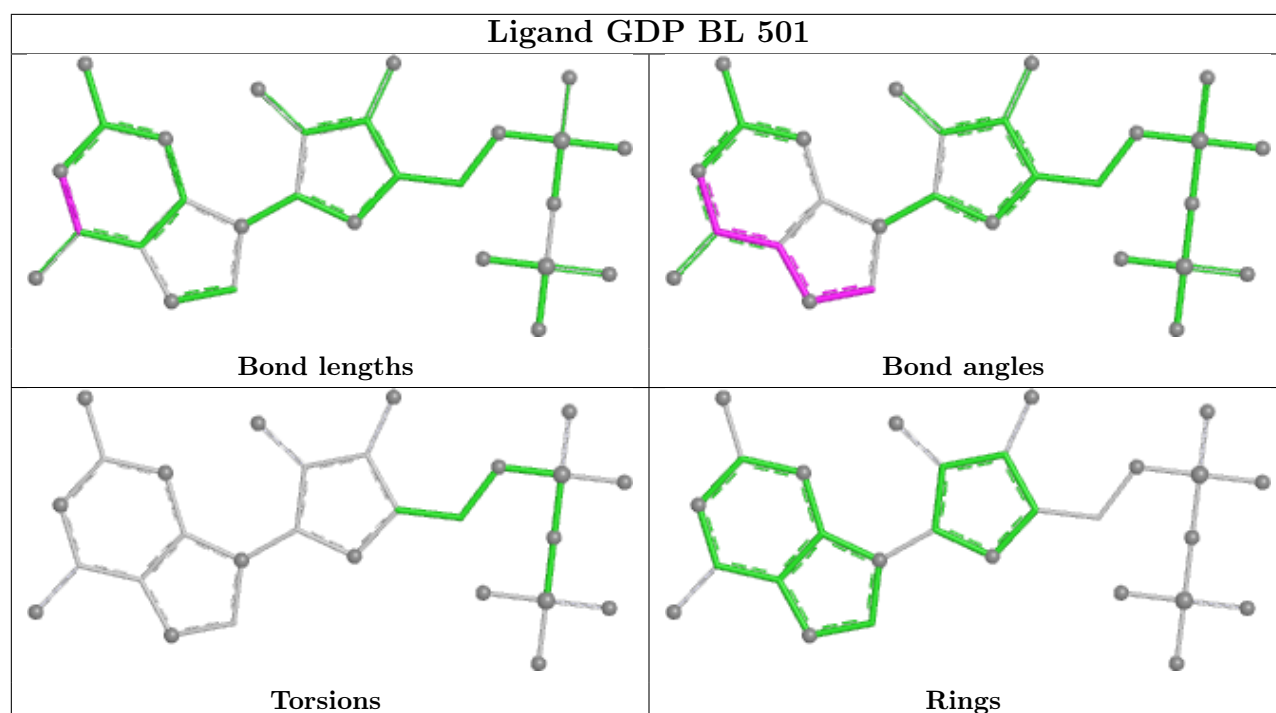


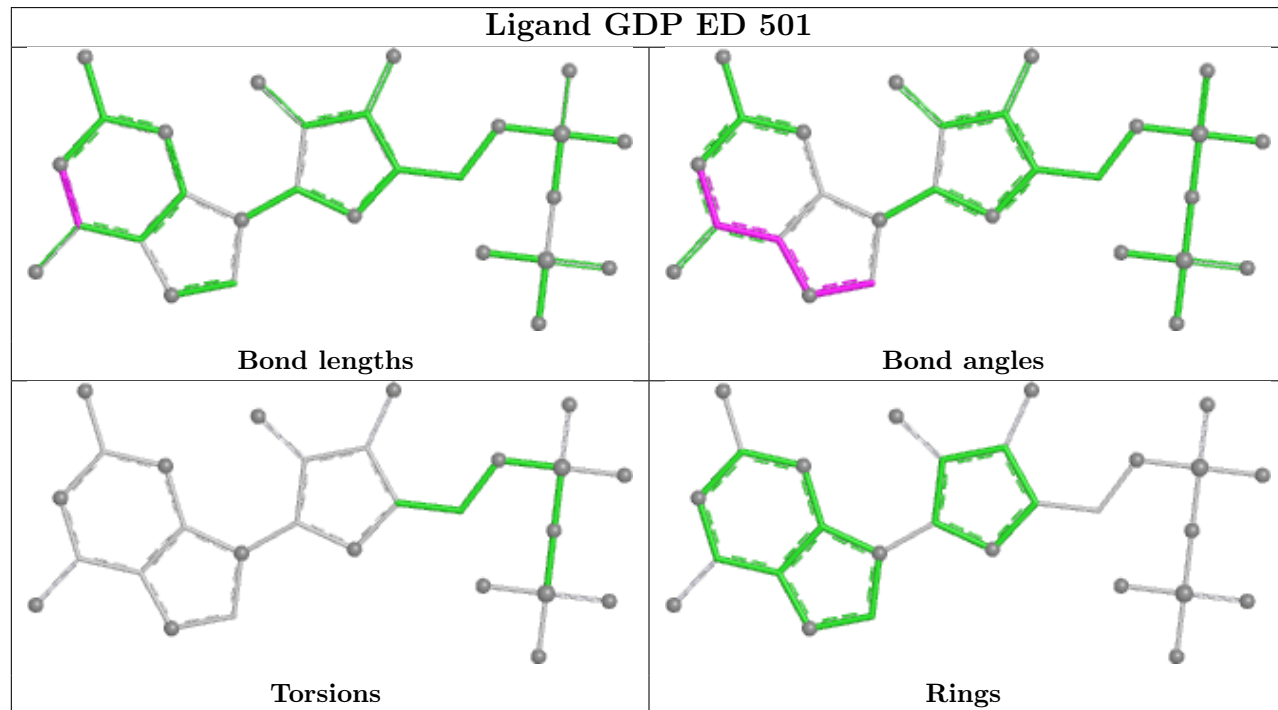
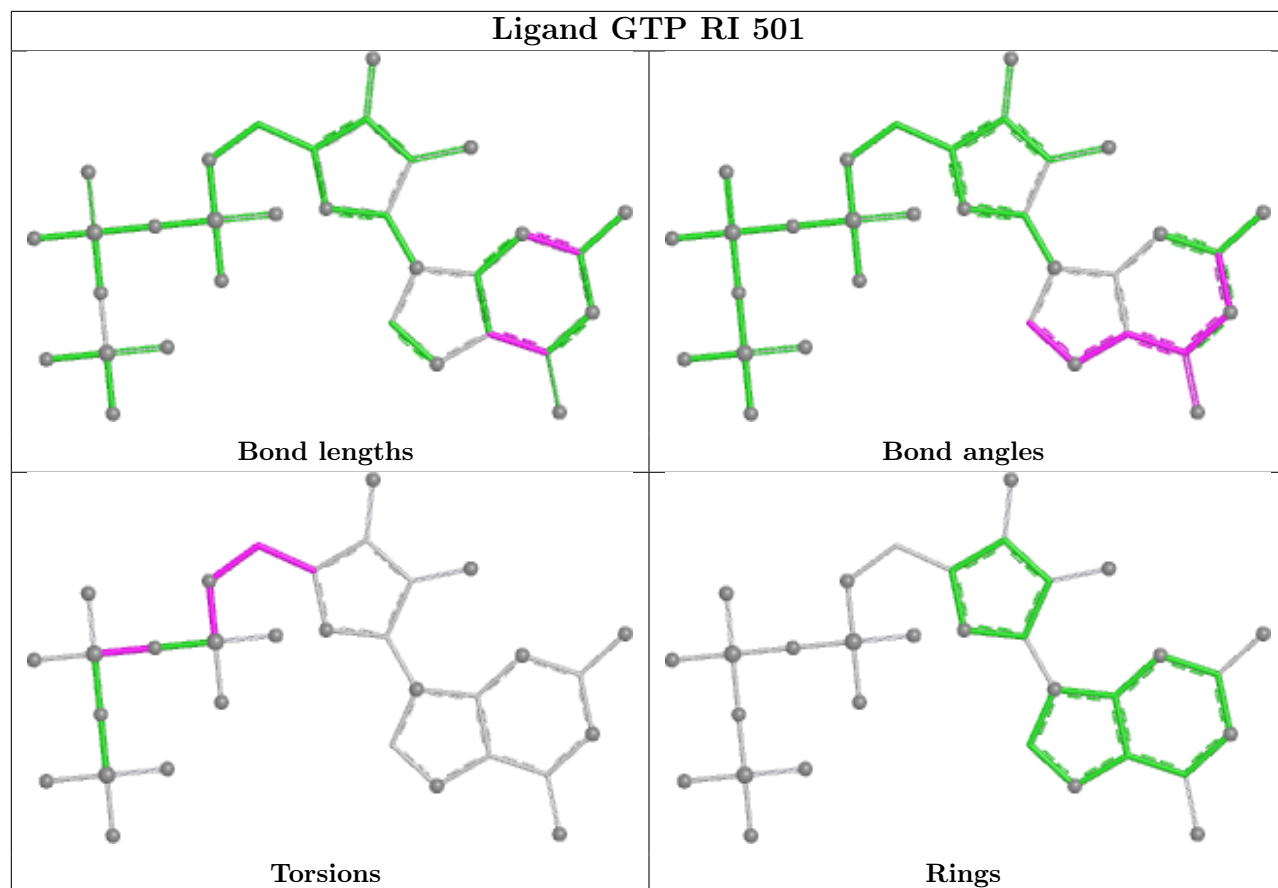
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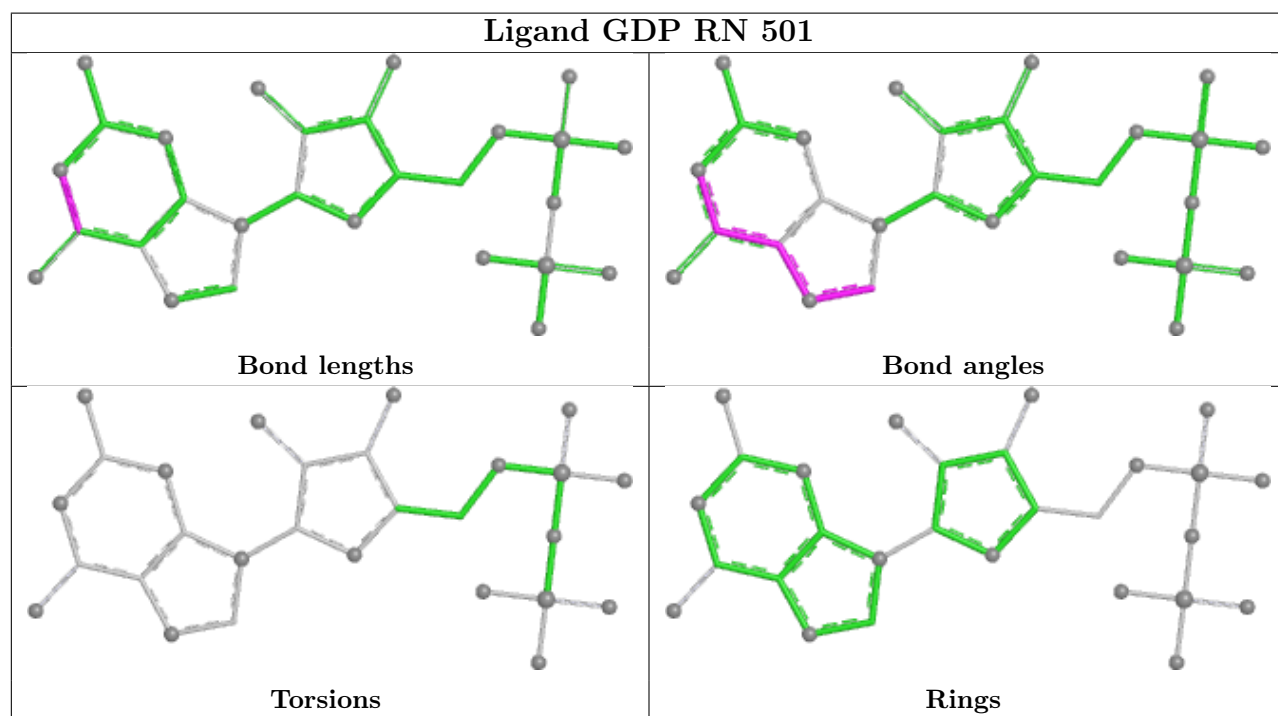
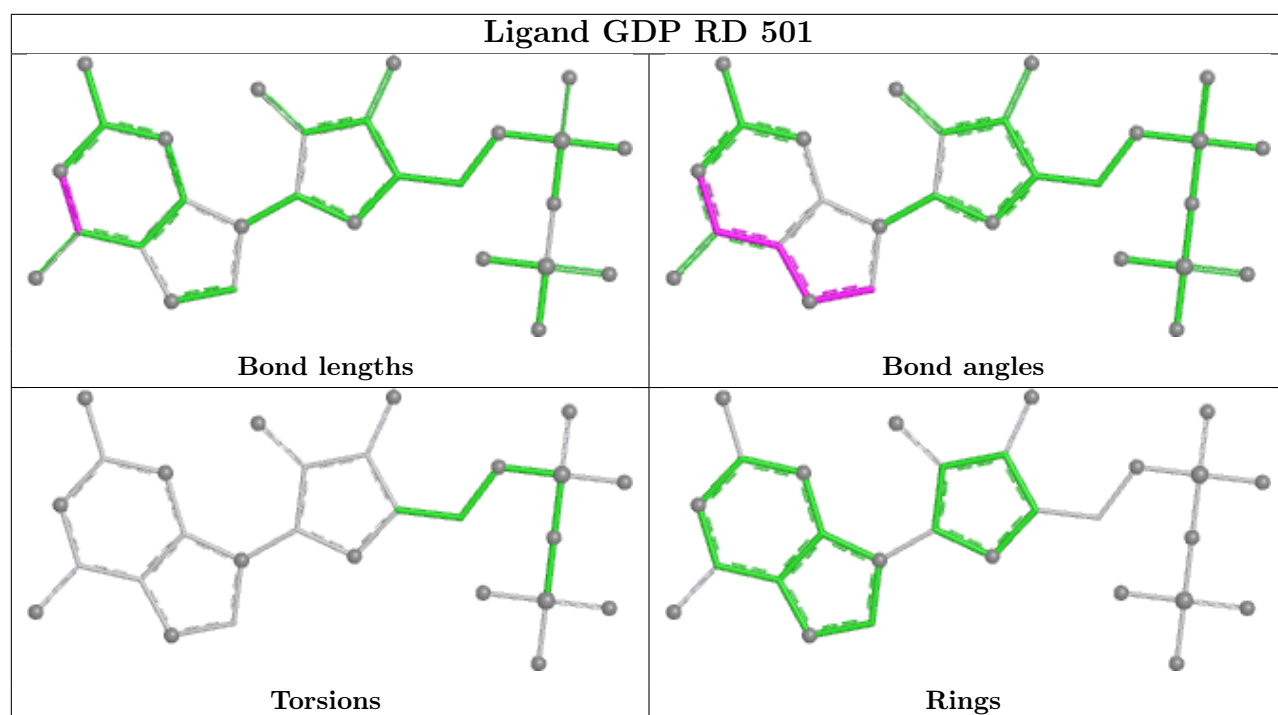




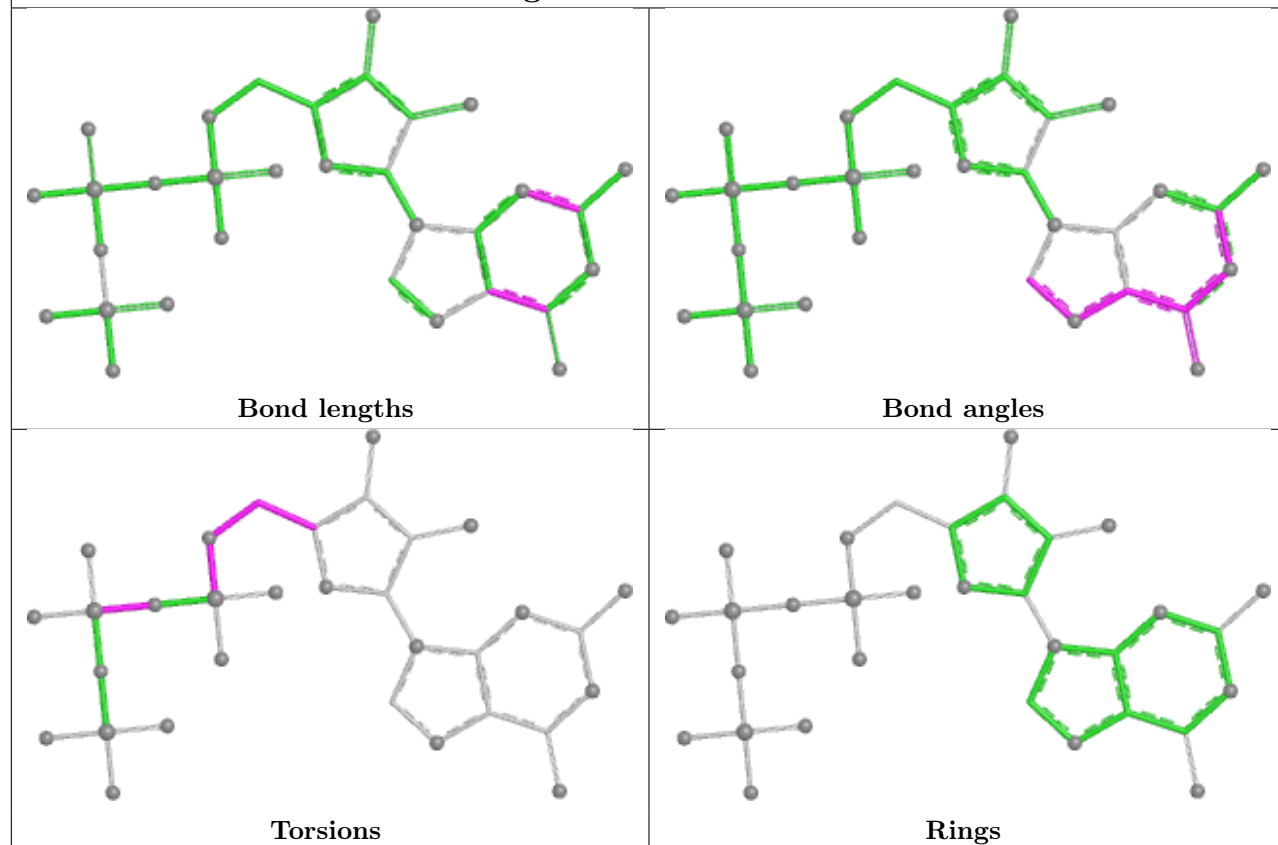




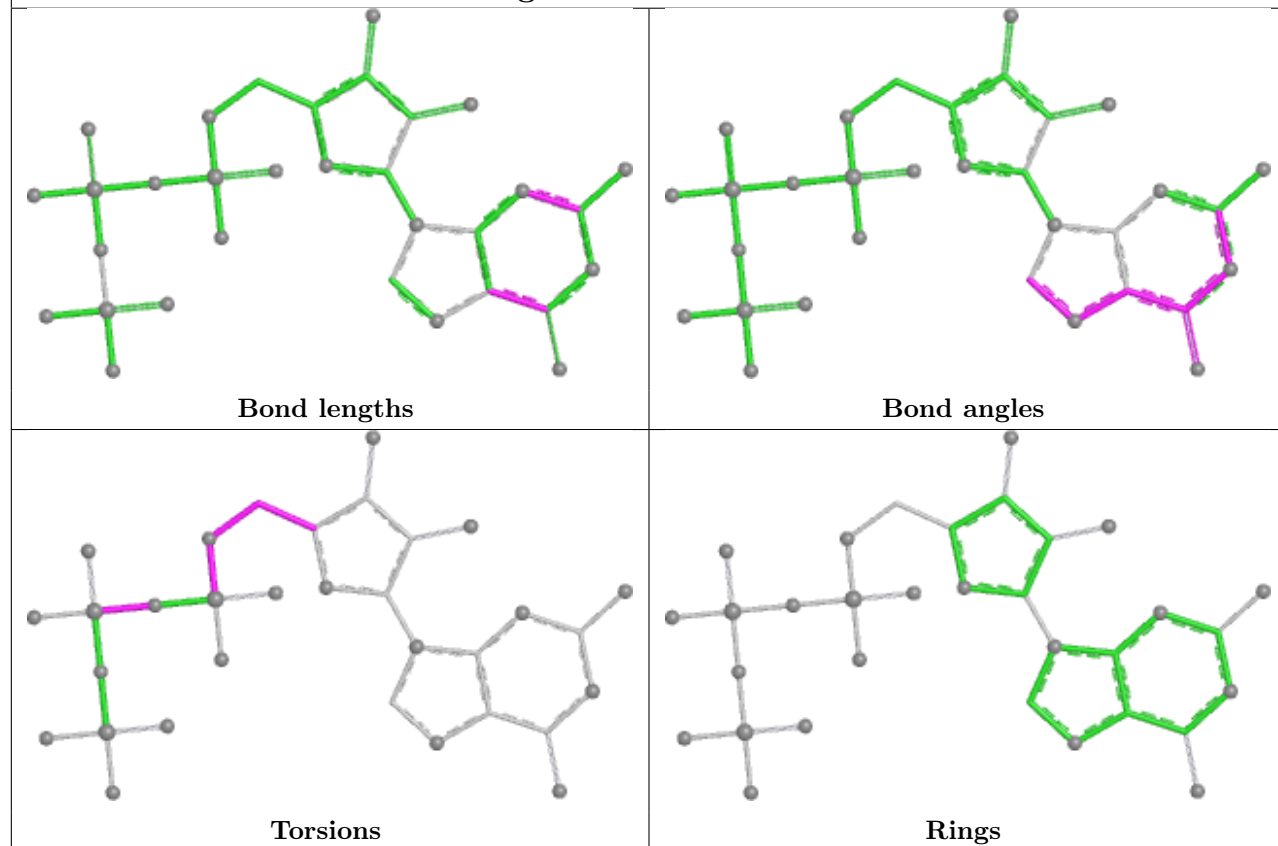


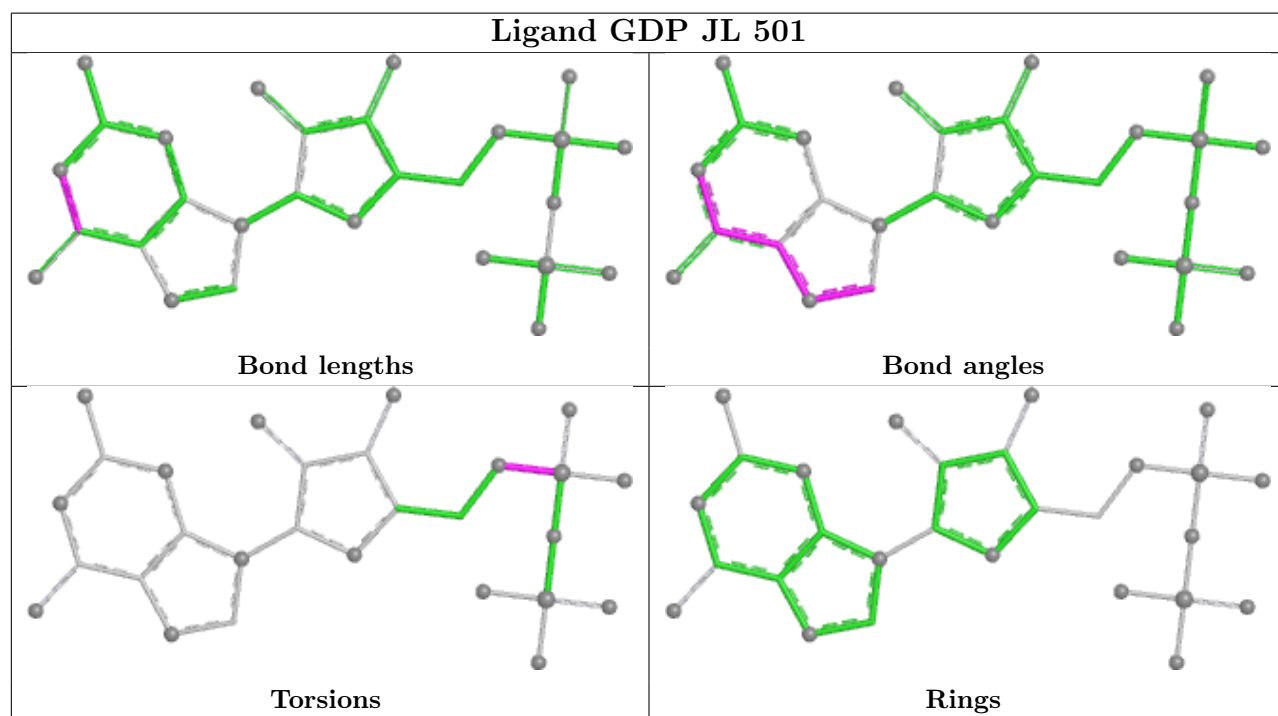
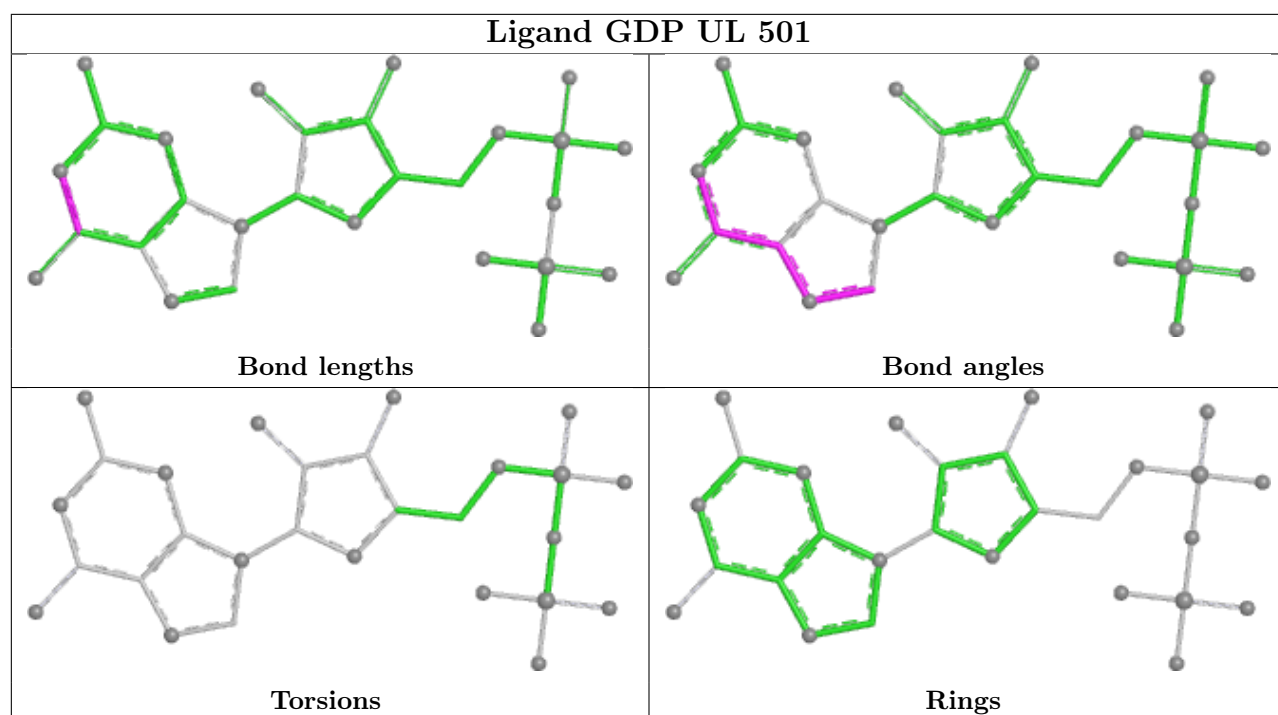


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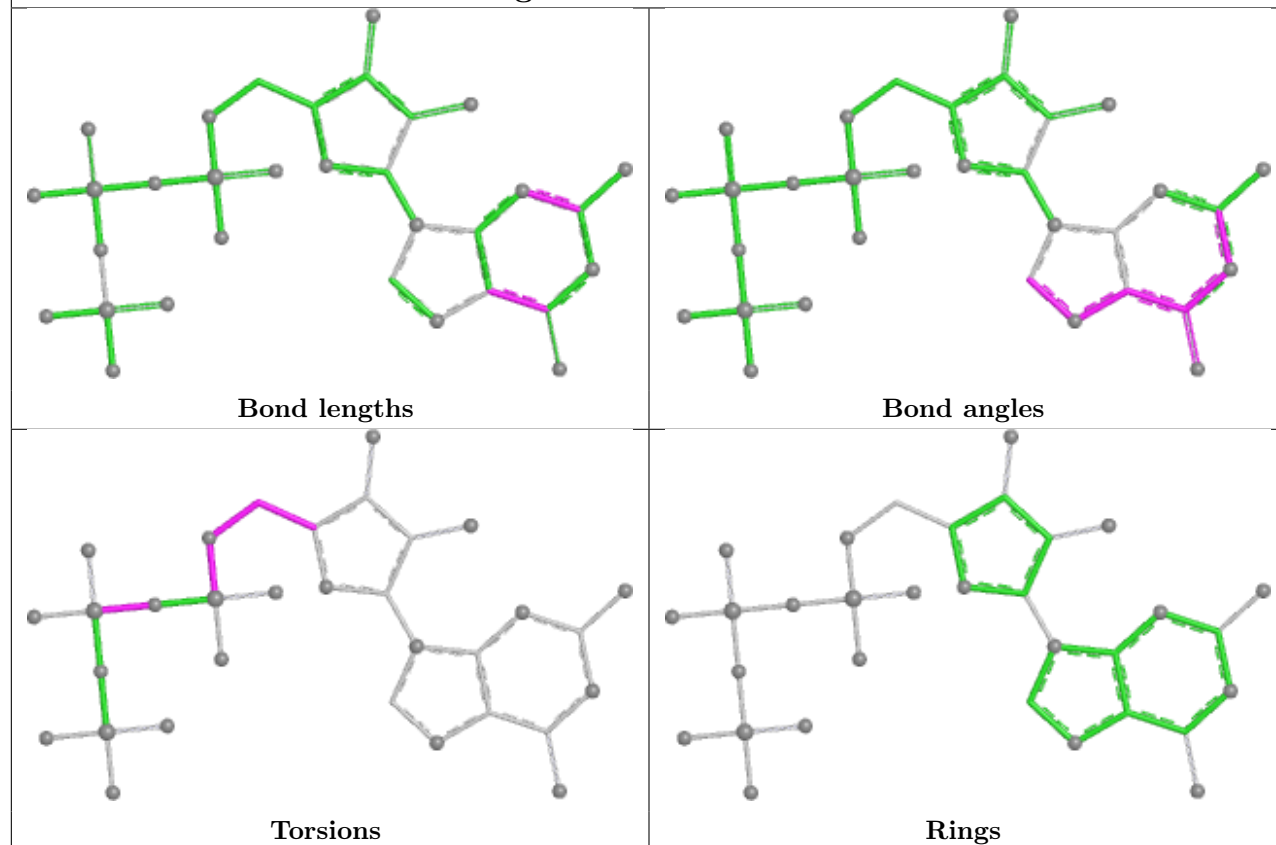


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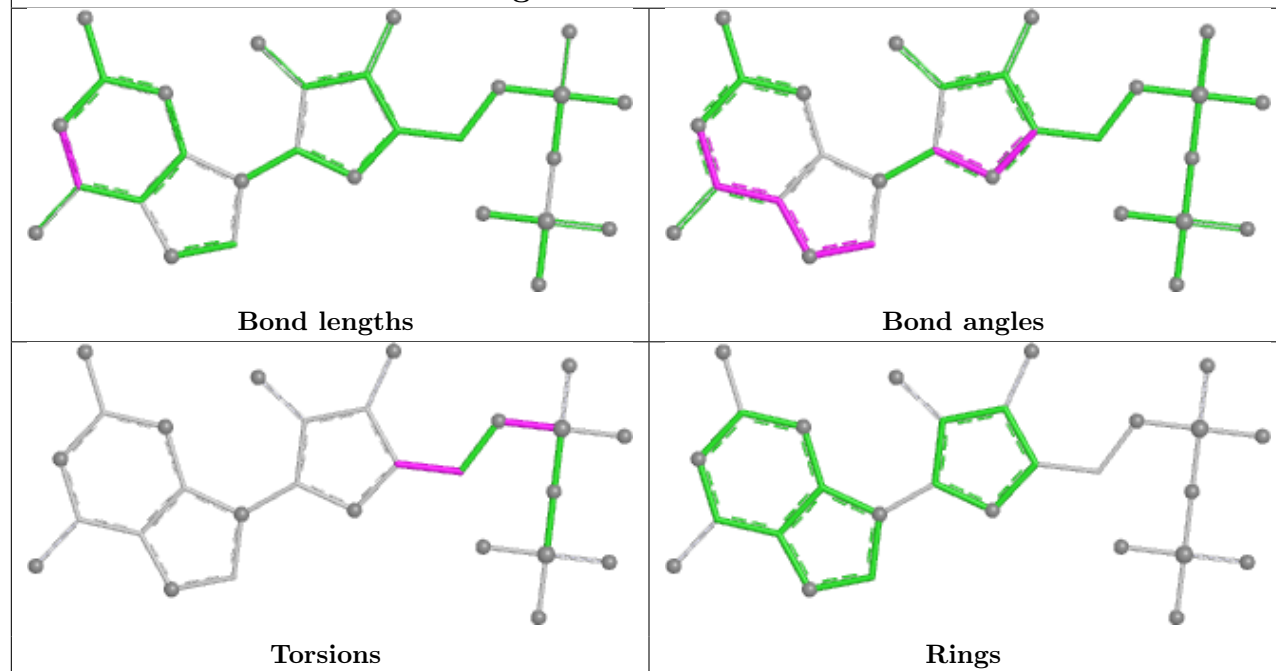




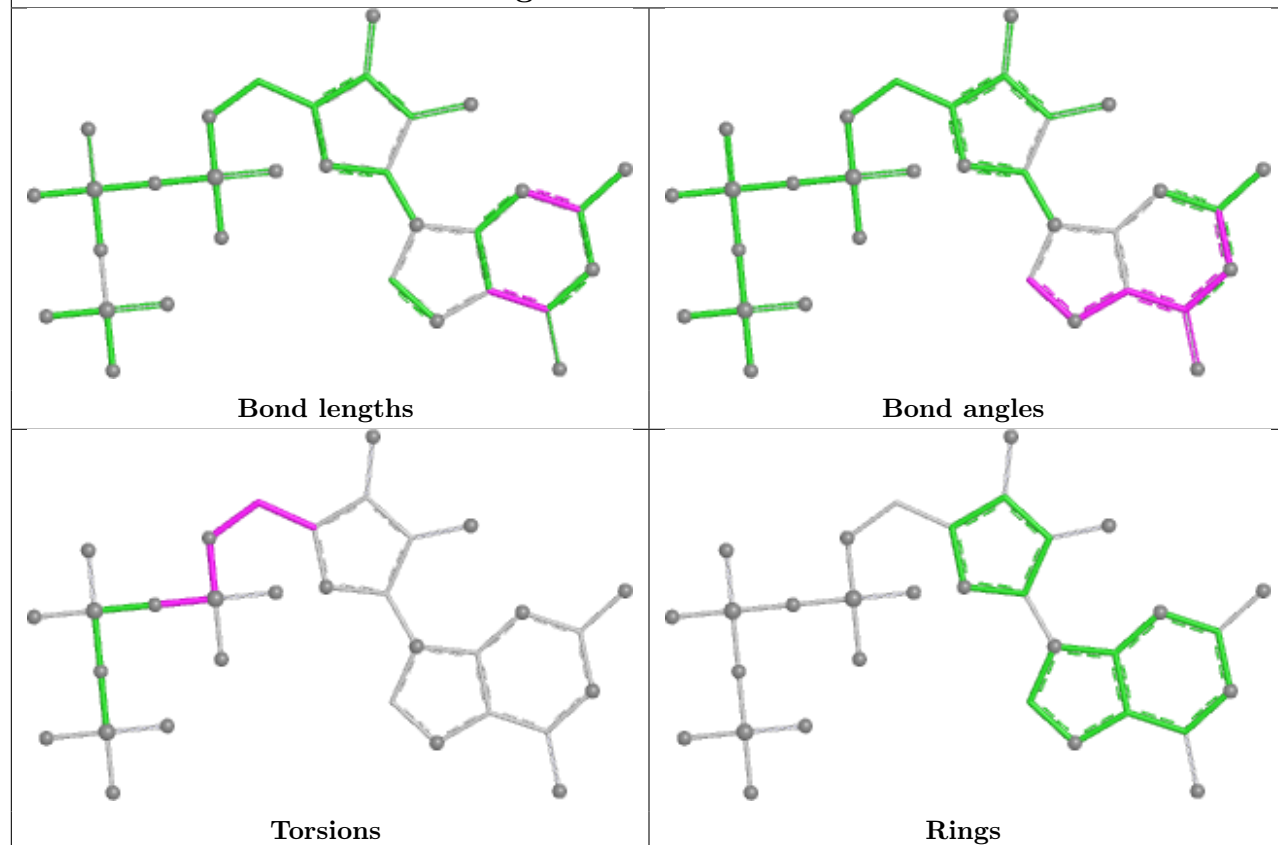
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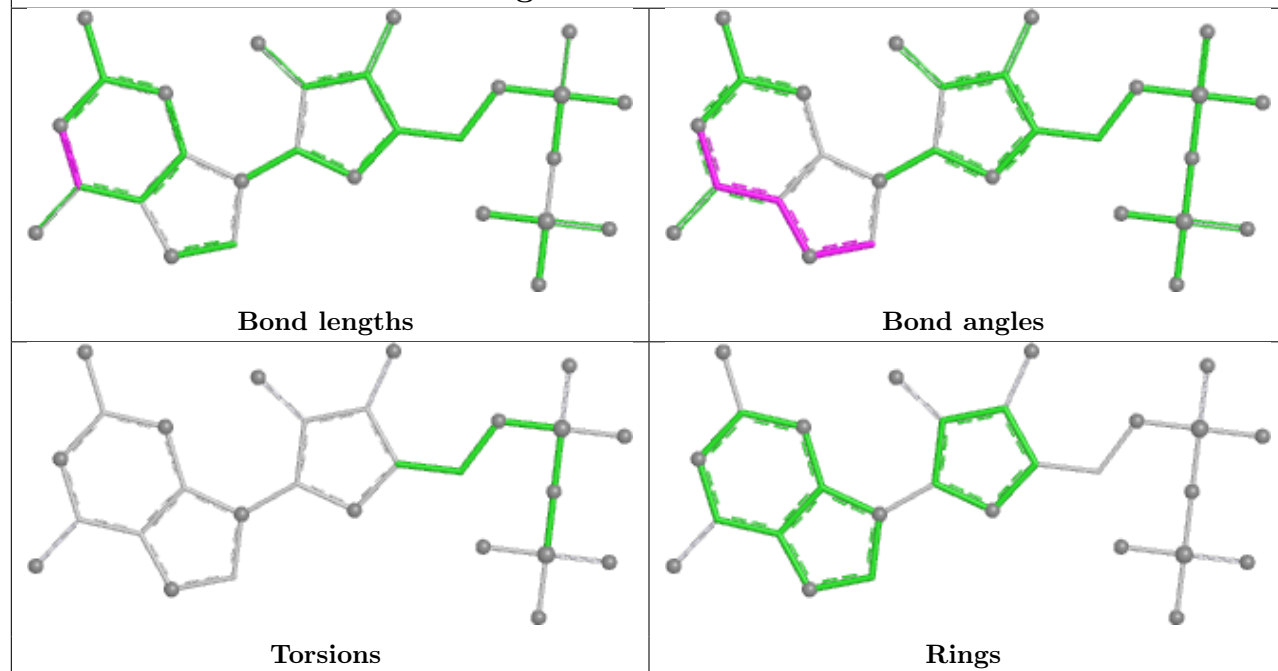
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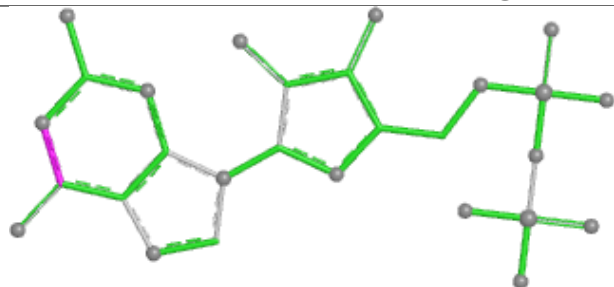
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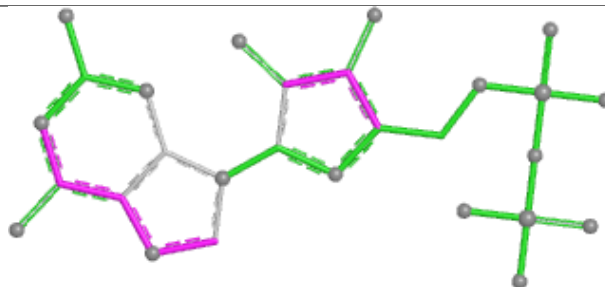
Ligand GDP DB 501



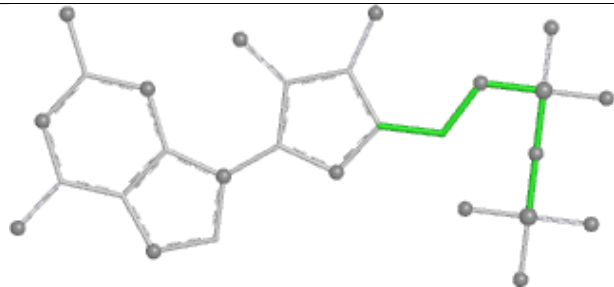
Ligand GDP KH 501



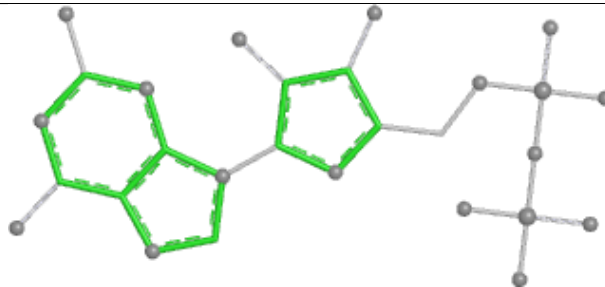
Bond lengths



Bond angles

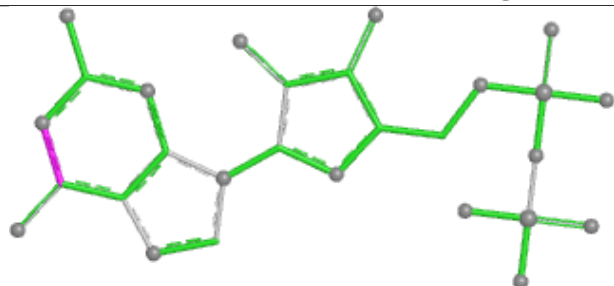


Torsions

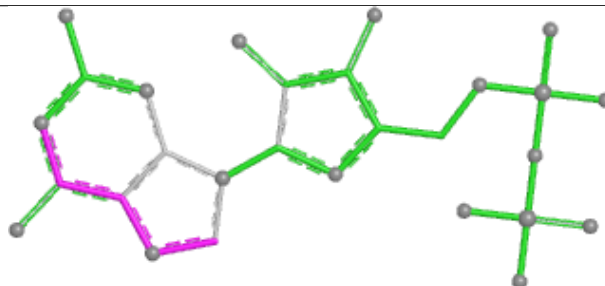


Rings

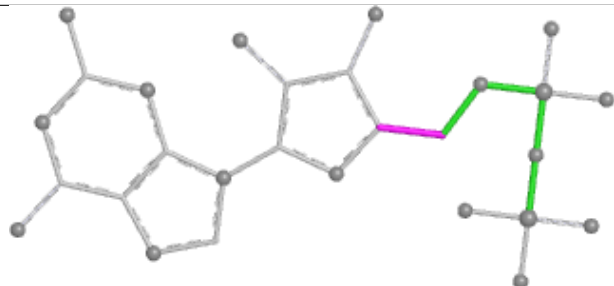
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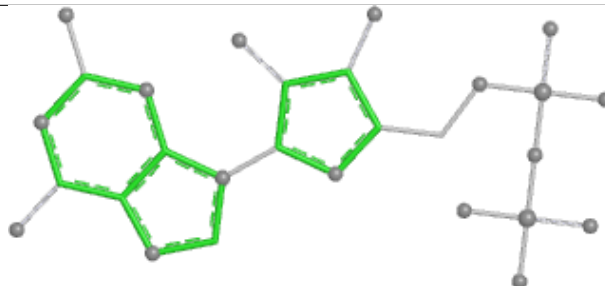
Bond lengths



Bond angles

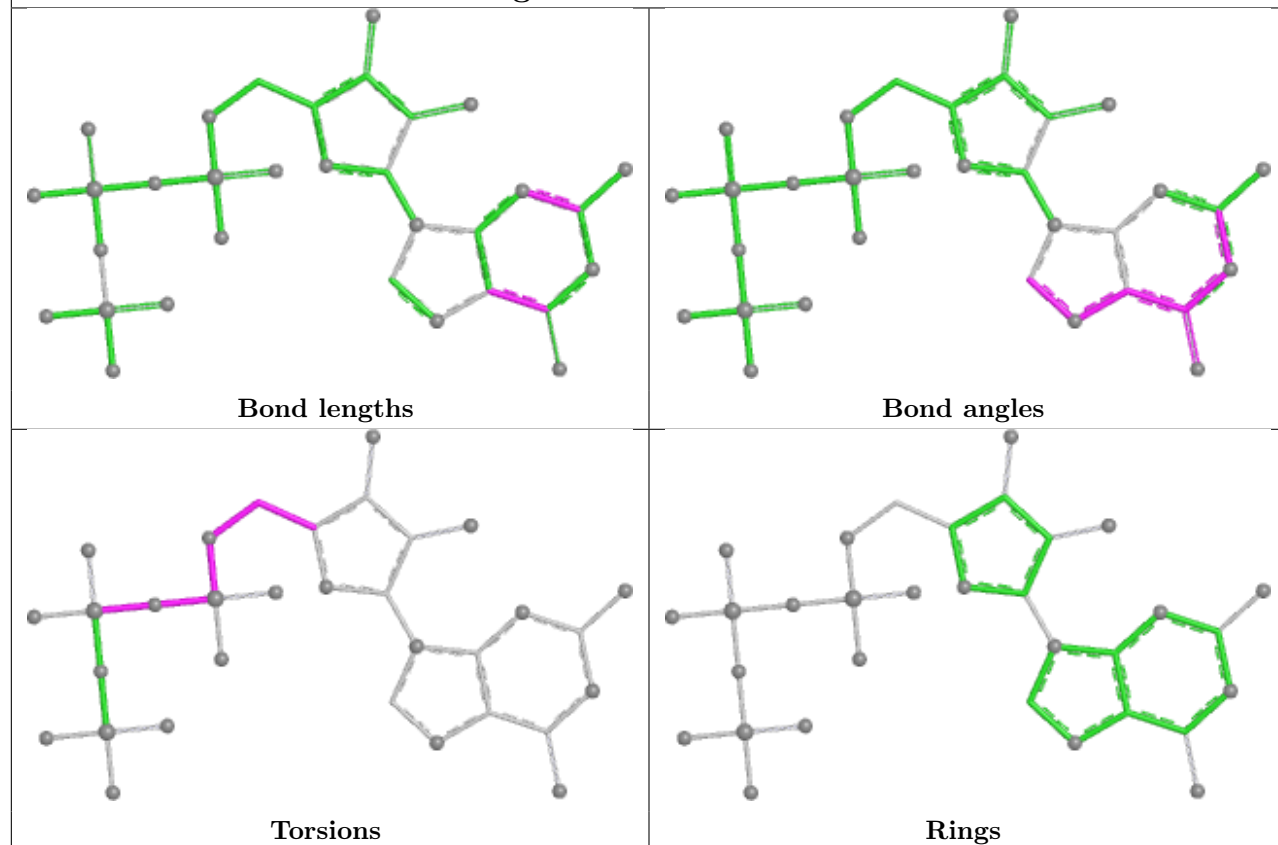


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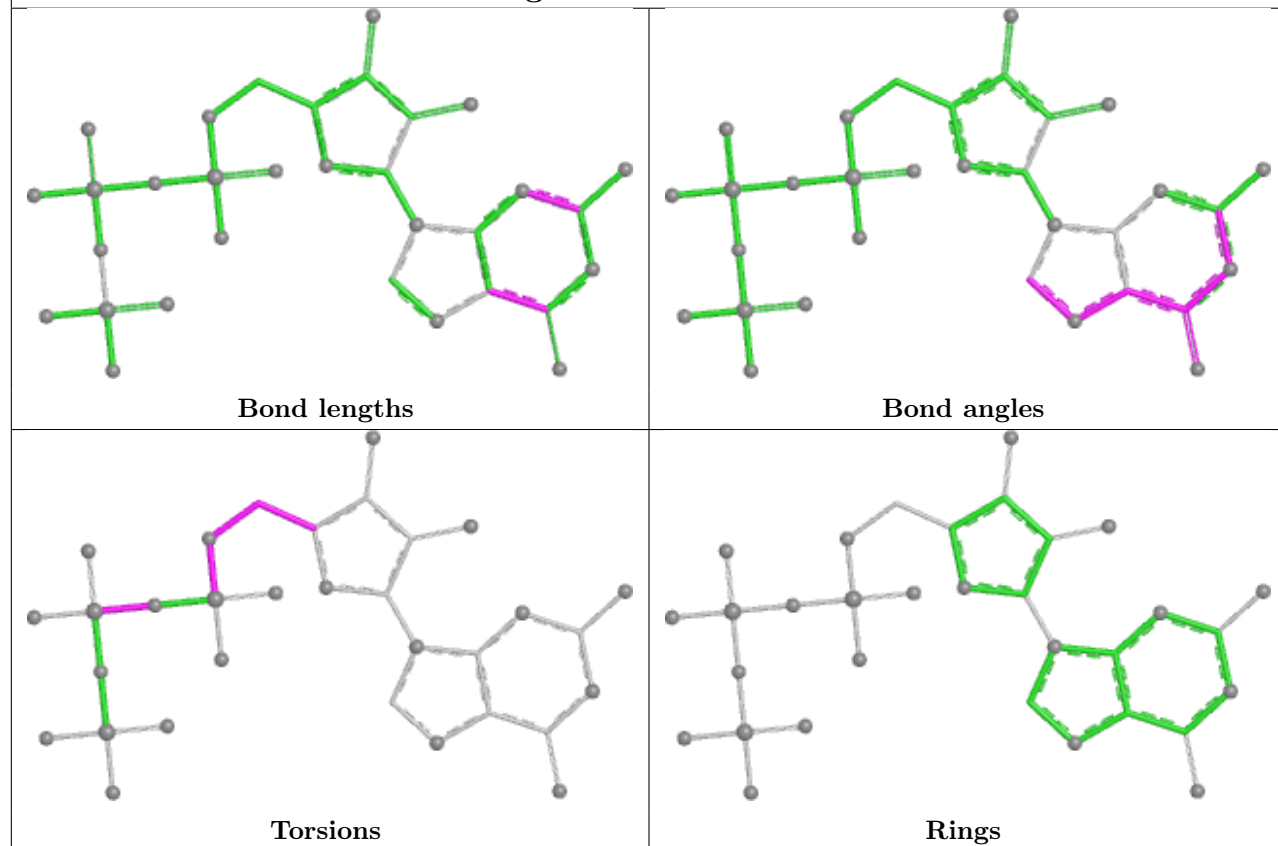


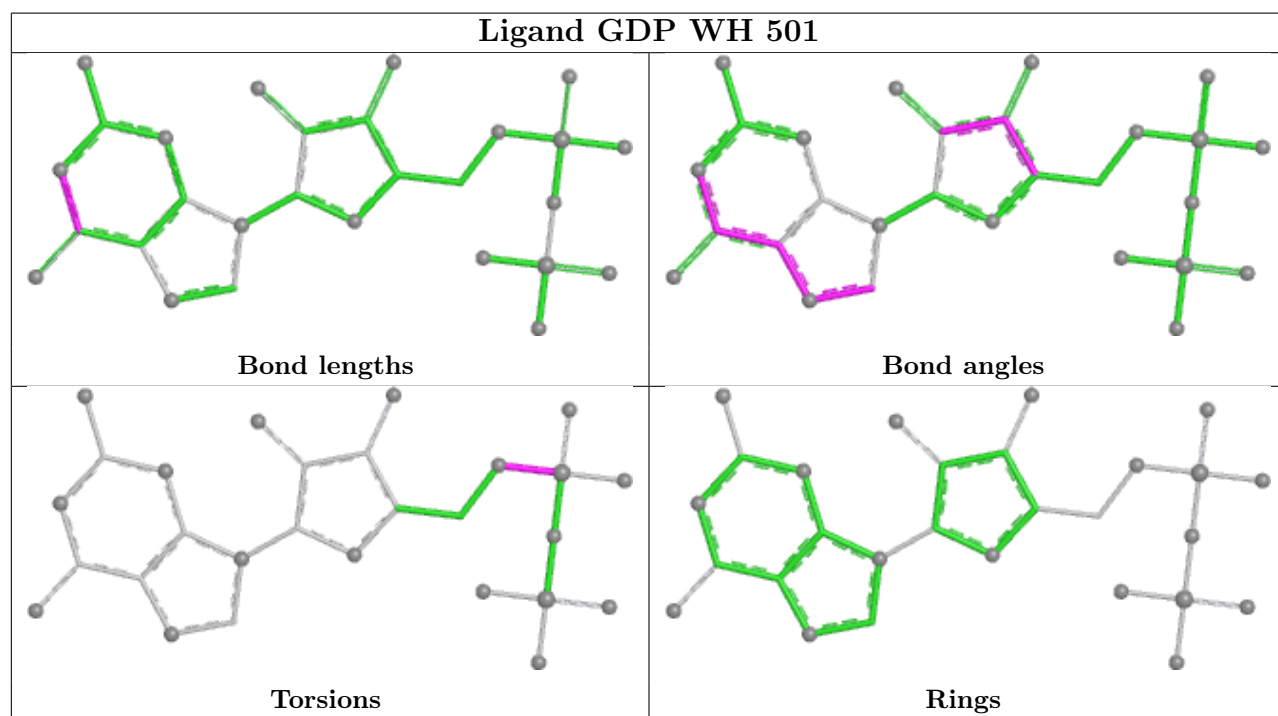
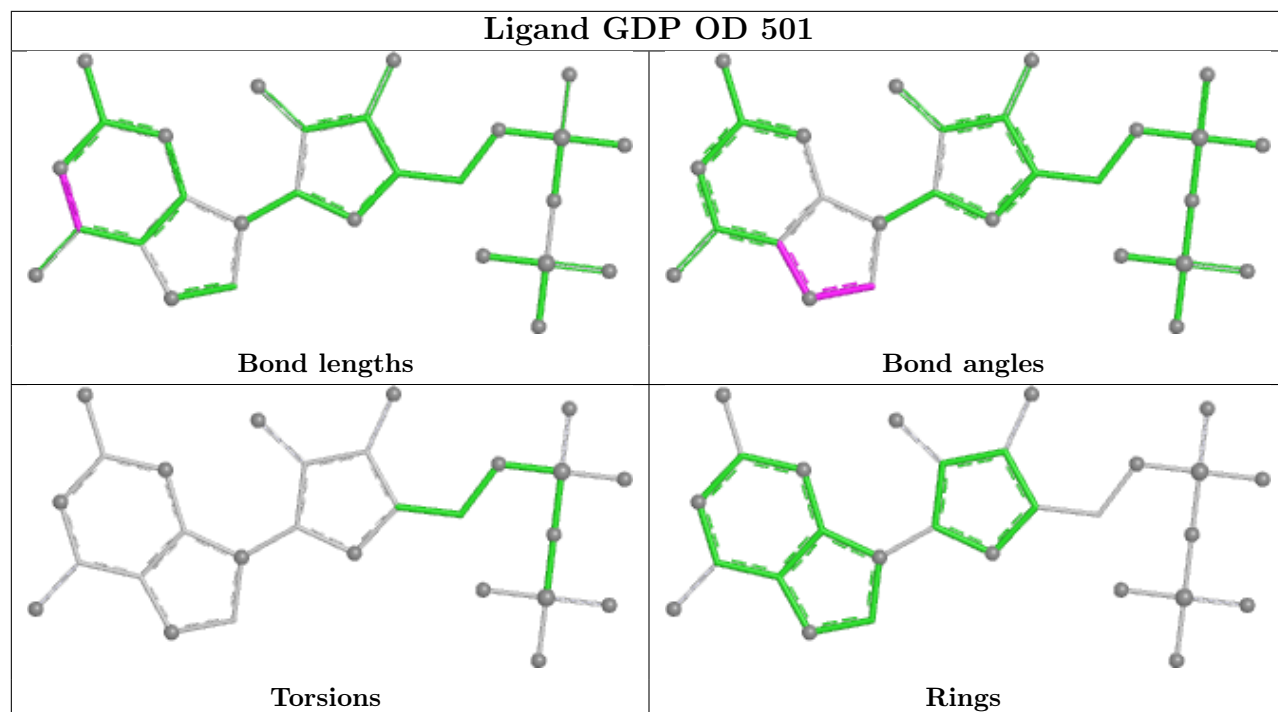
Rings

Ligand GTP AM 501

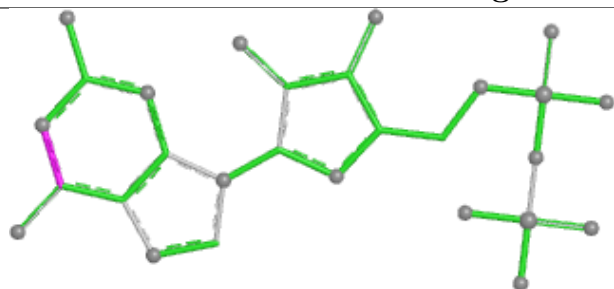


Ligand GTP EI 501

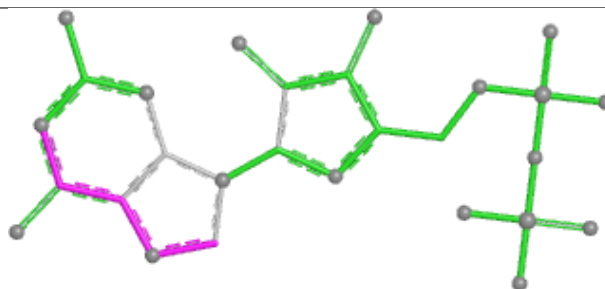




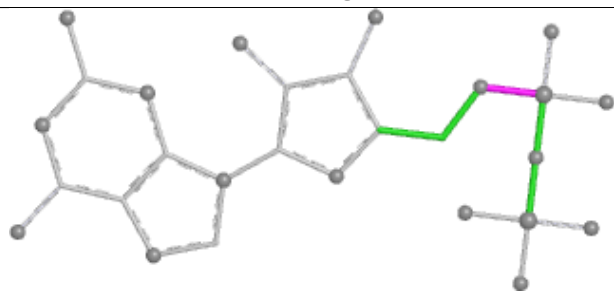
Ligand GDP WN 501



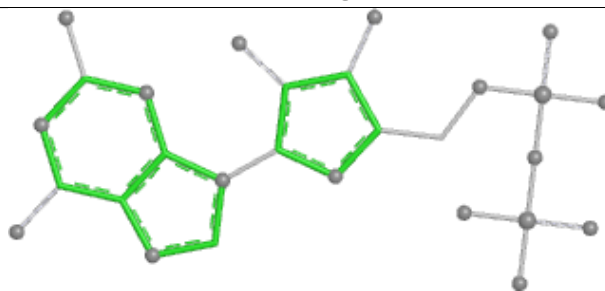
Bond lengths



Bond angles

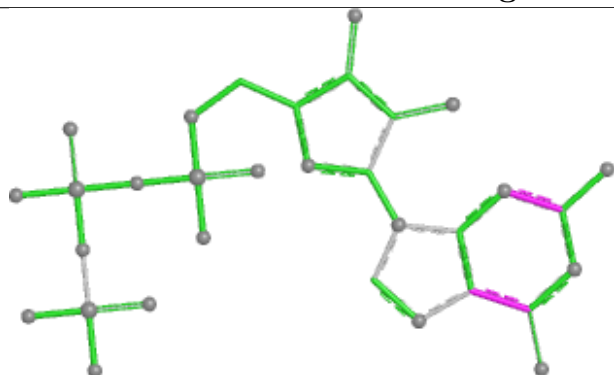


Torsions

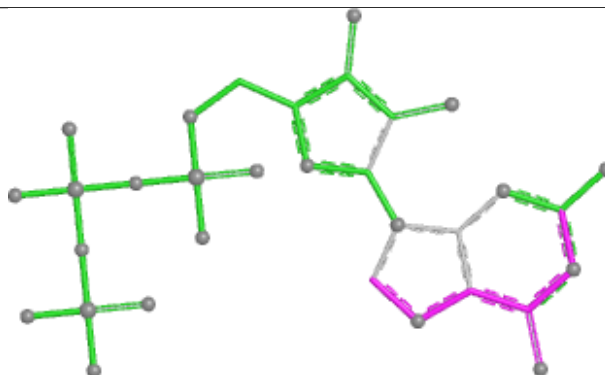


Rings

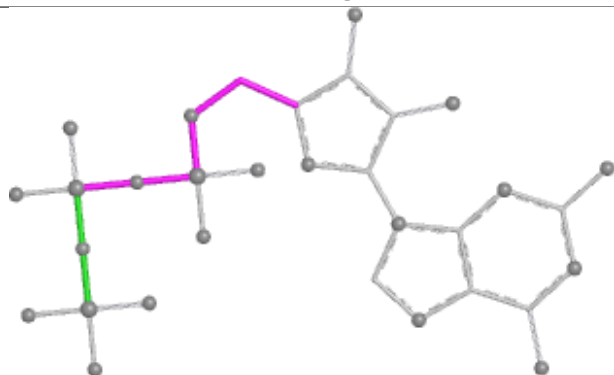
Ligand GTP CA 501



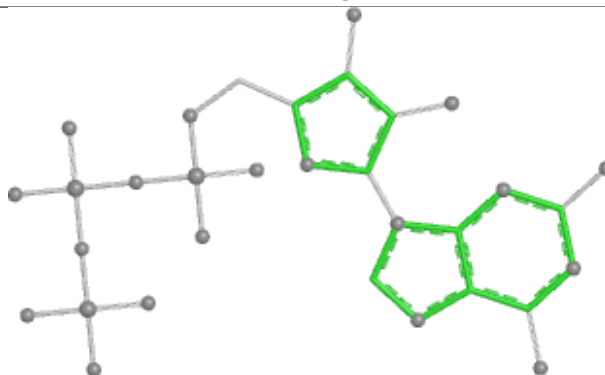
Bond lengths



Bond angles

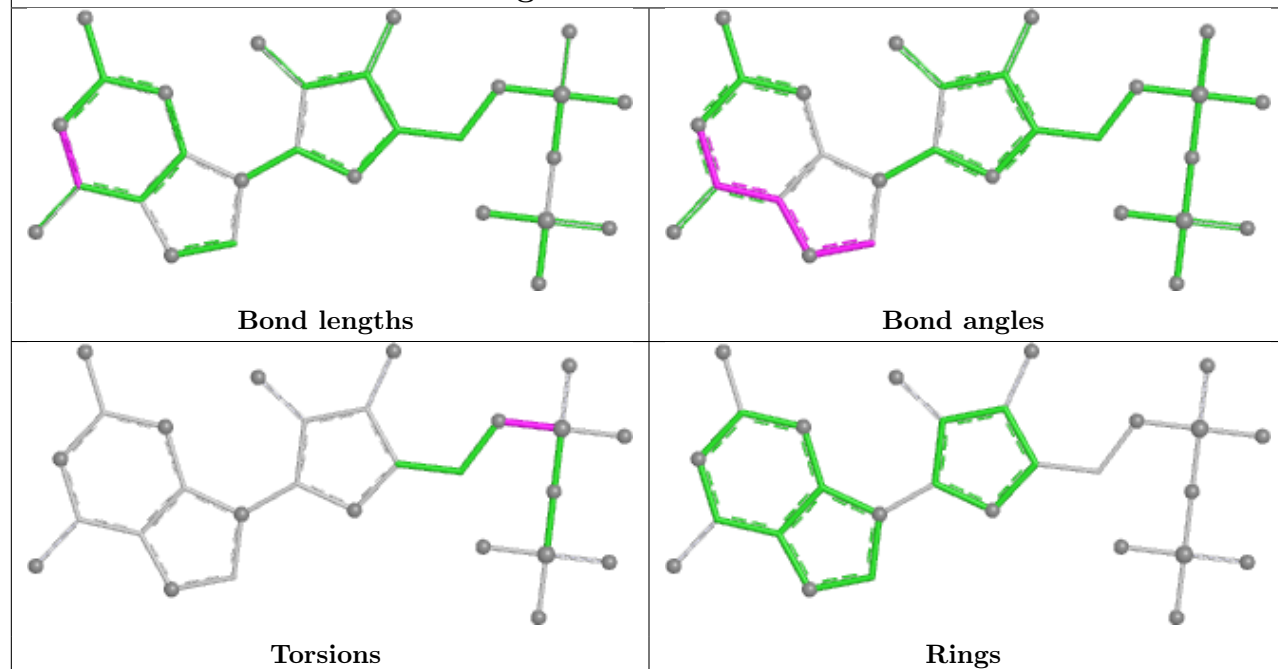


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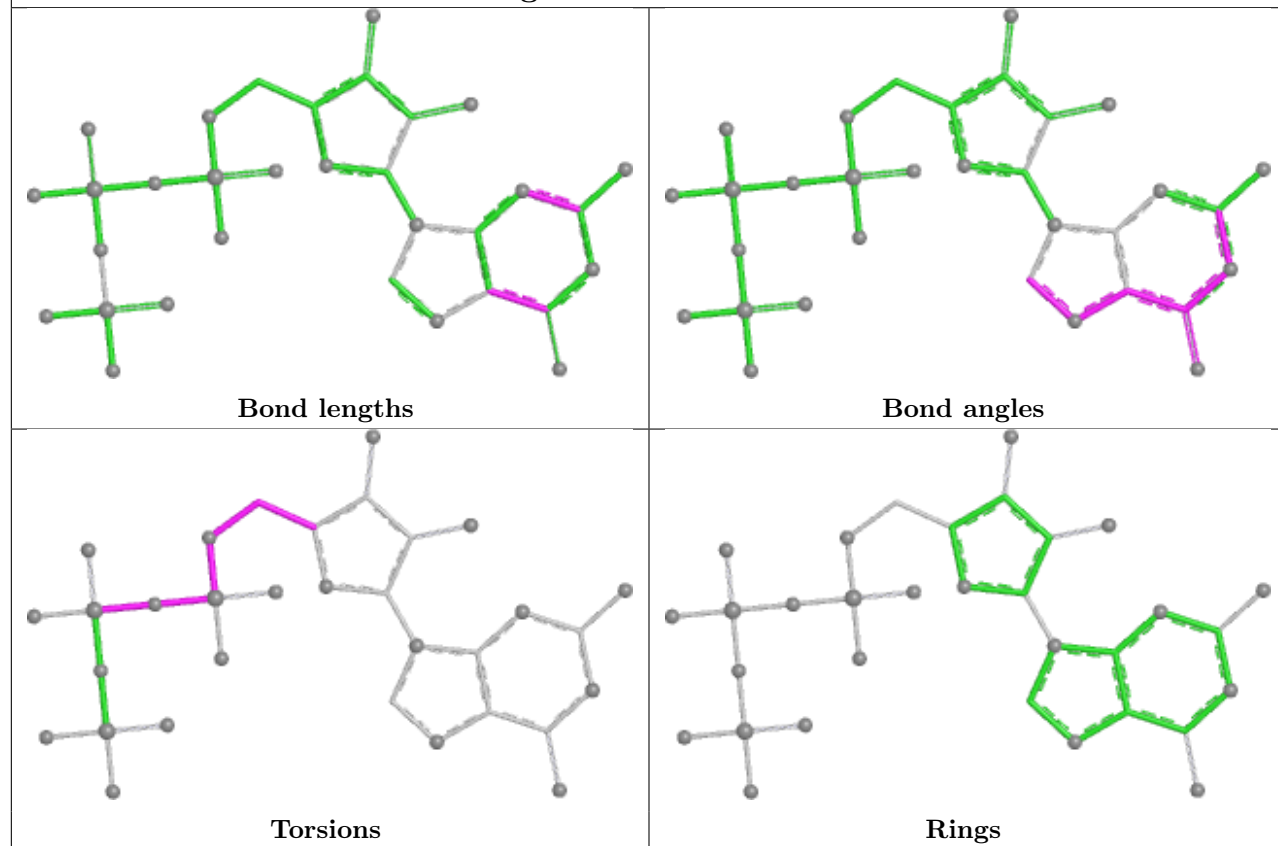


Rings

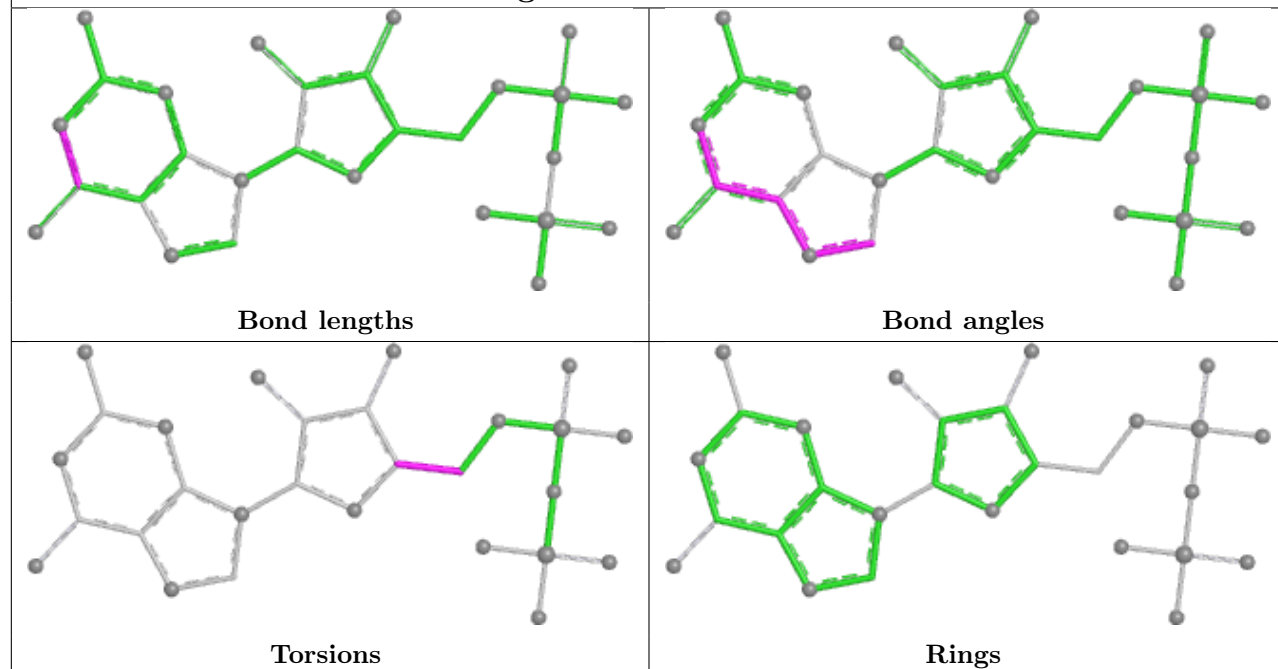
Ligand GDP FN 501



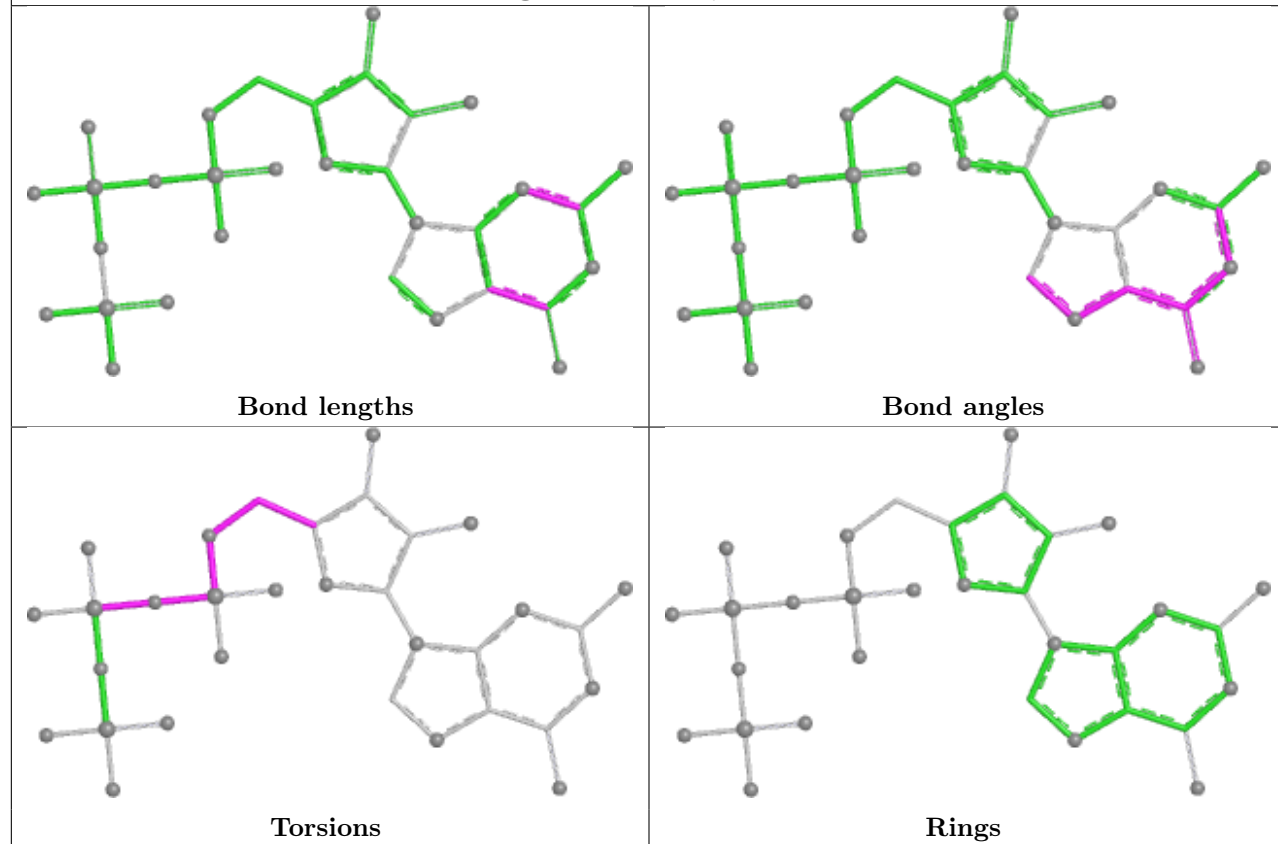
Ligand GTP JG 501

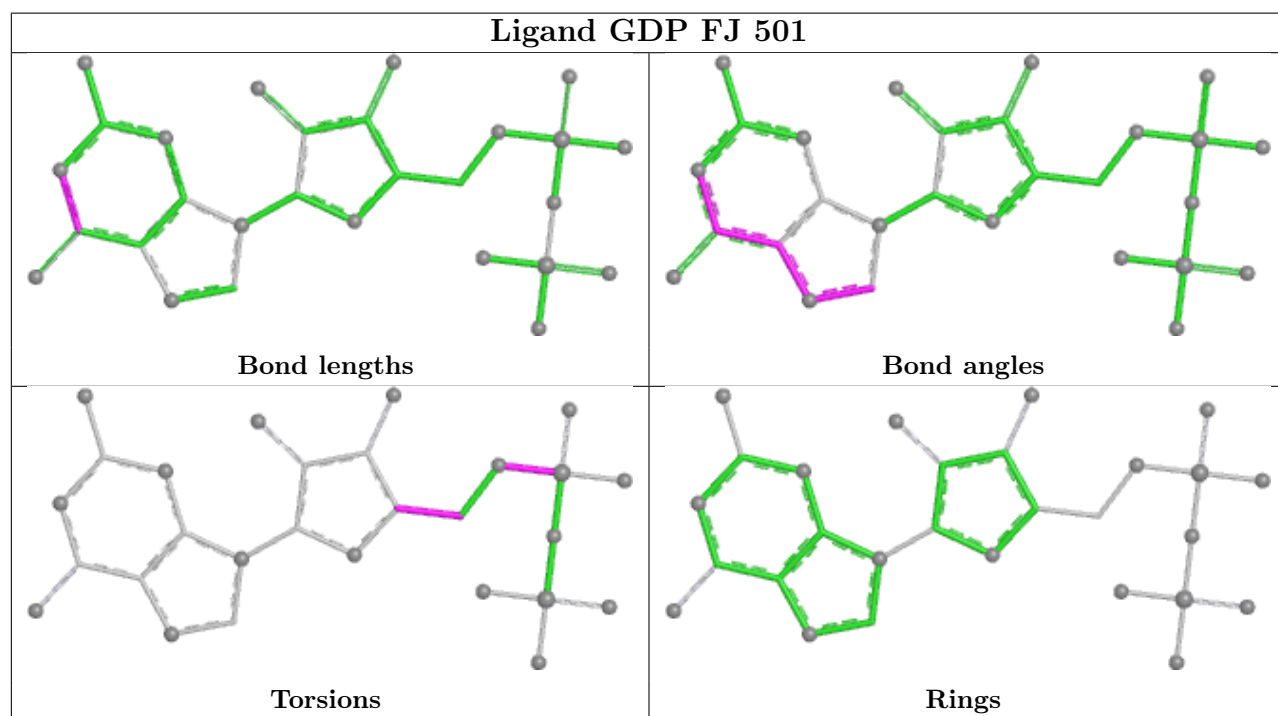
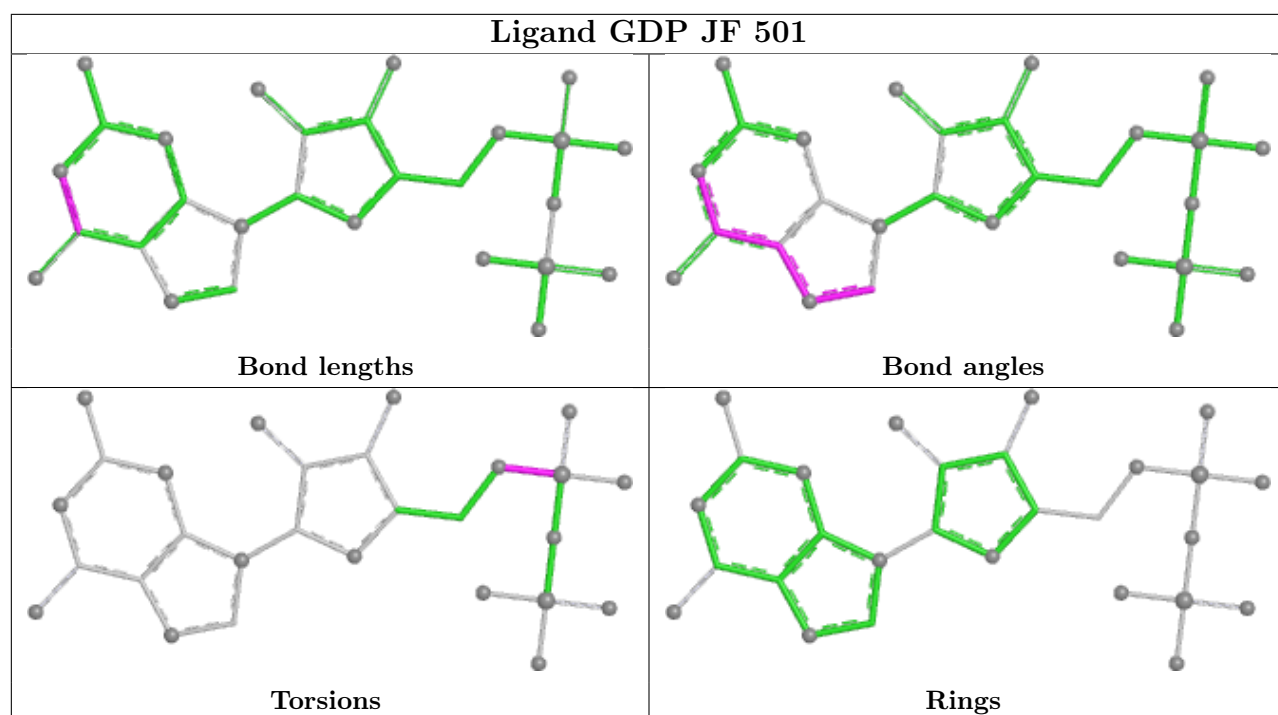


Ligand GDP RF 501

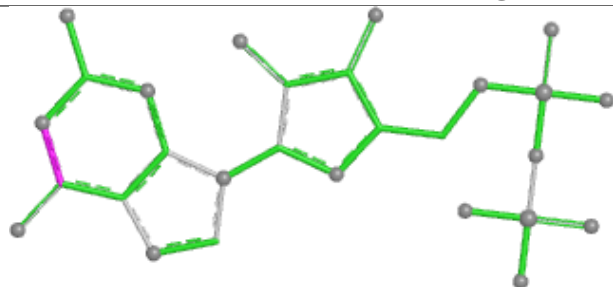


Ligand GTP QA 501

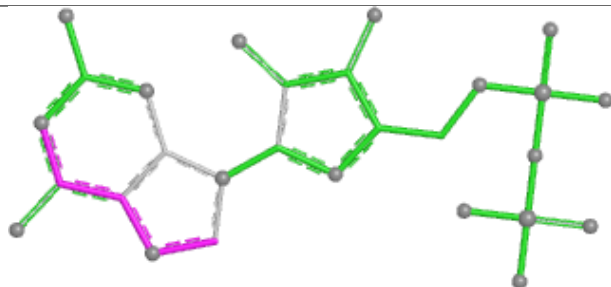




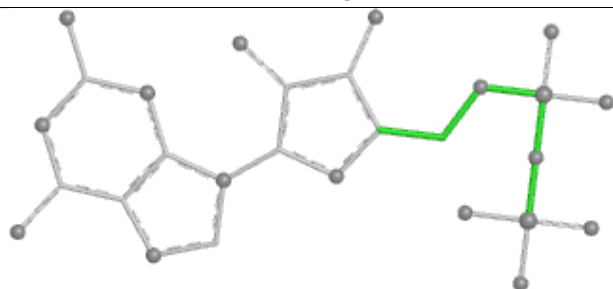
Ligand GDP WB 501



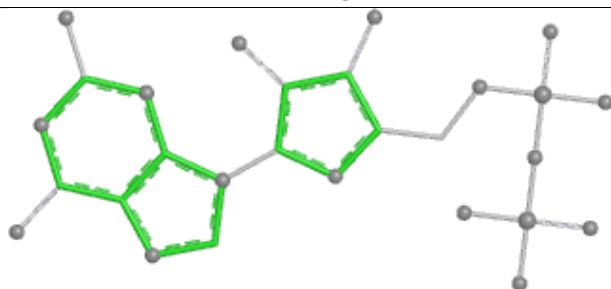
Bond lengths



Bond angles

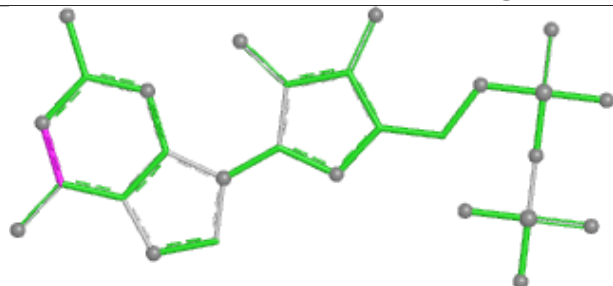


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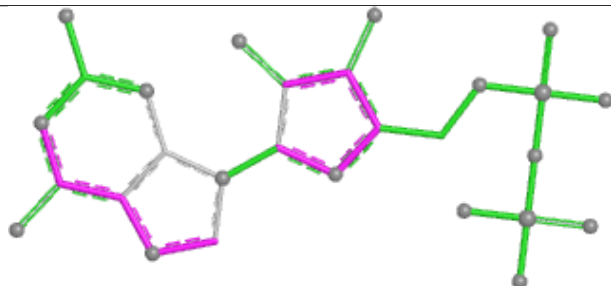


Rings

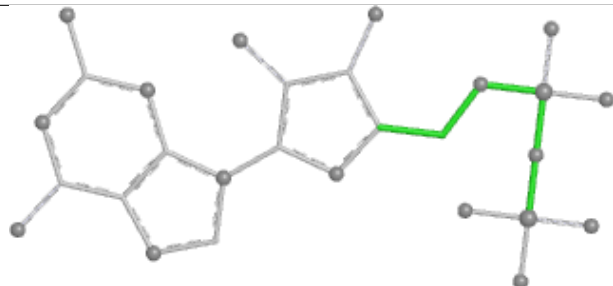
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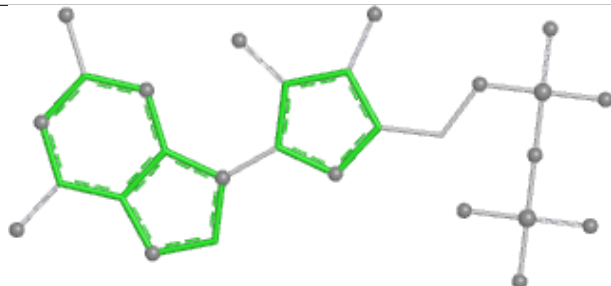
Bond lengths



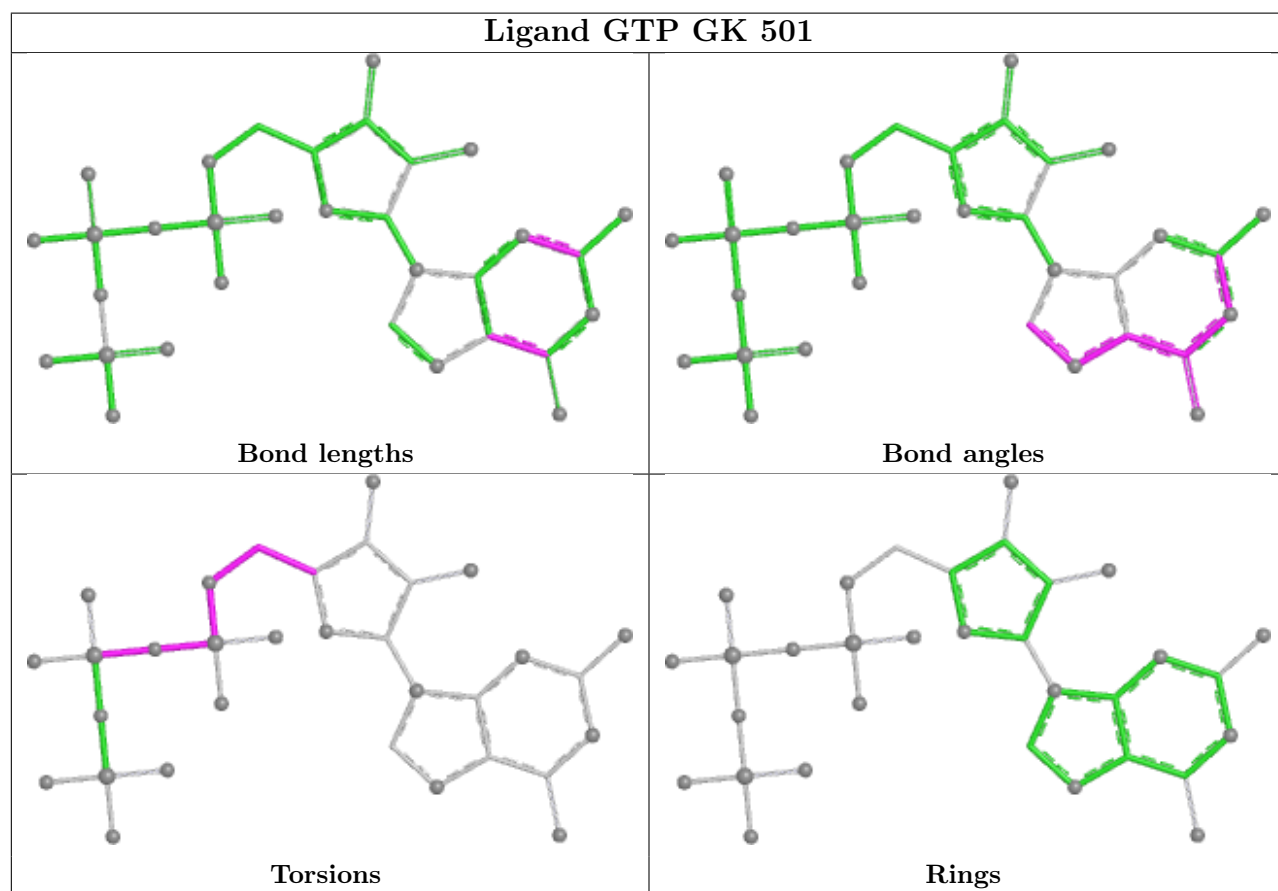
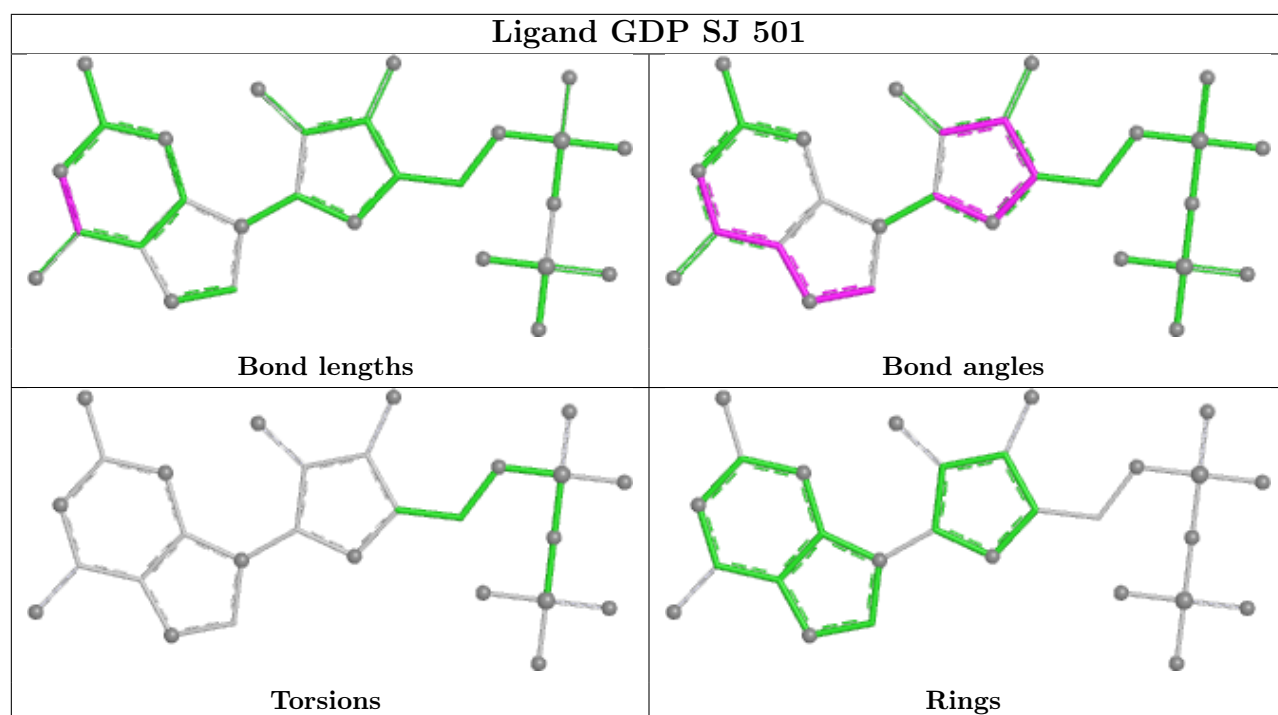
Bond angles



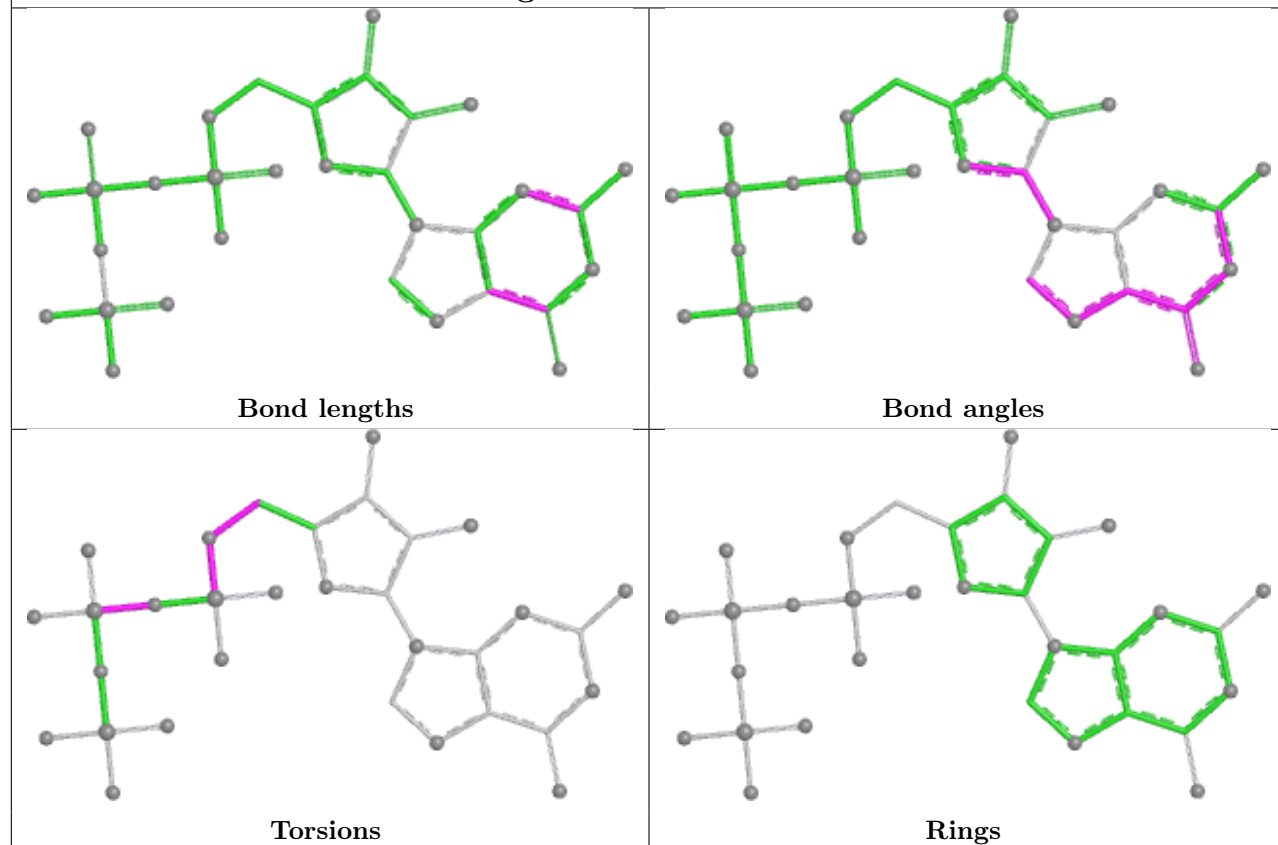
Torsions



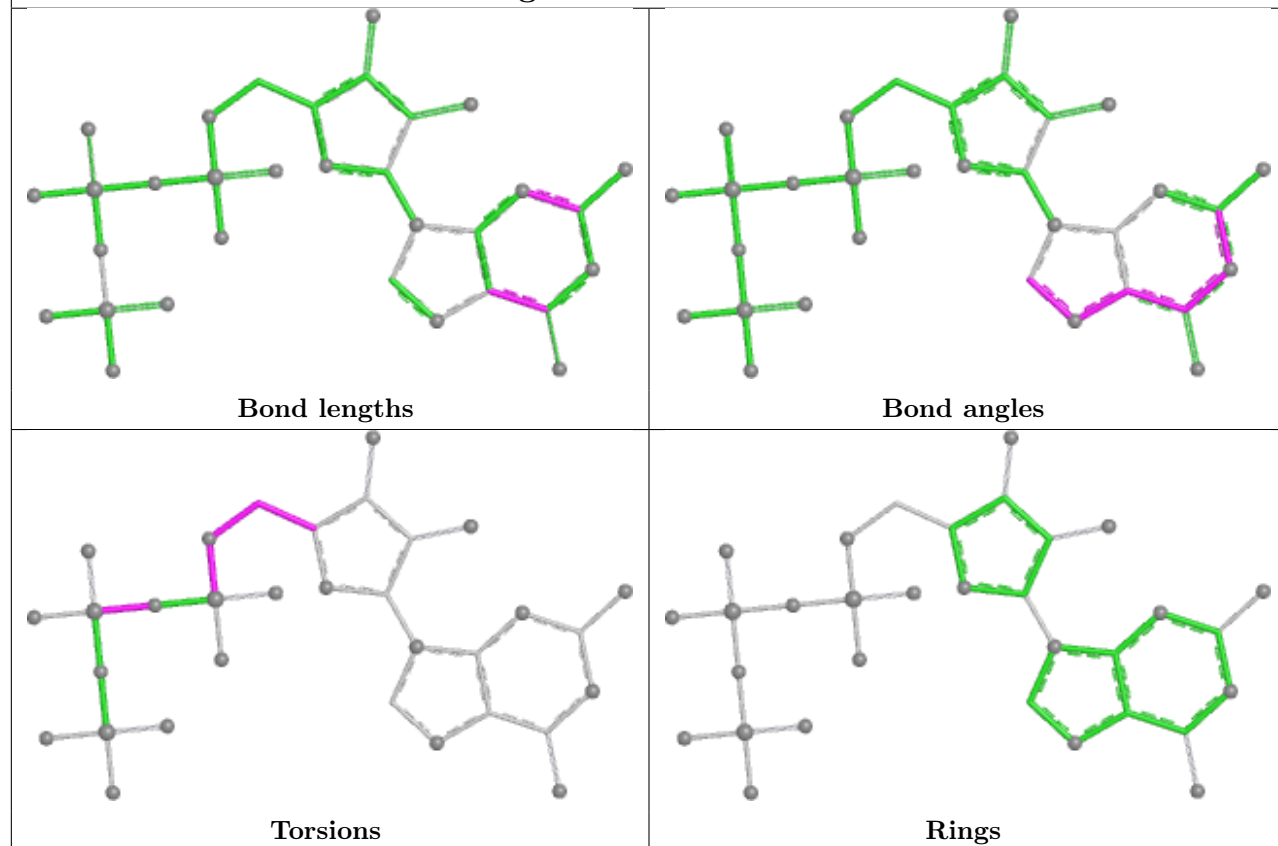
Rings



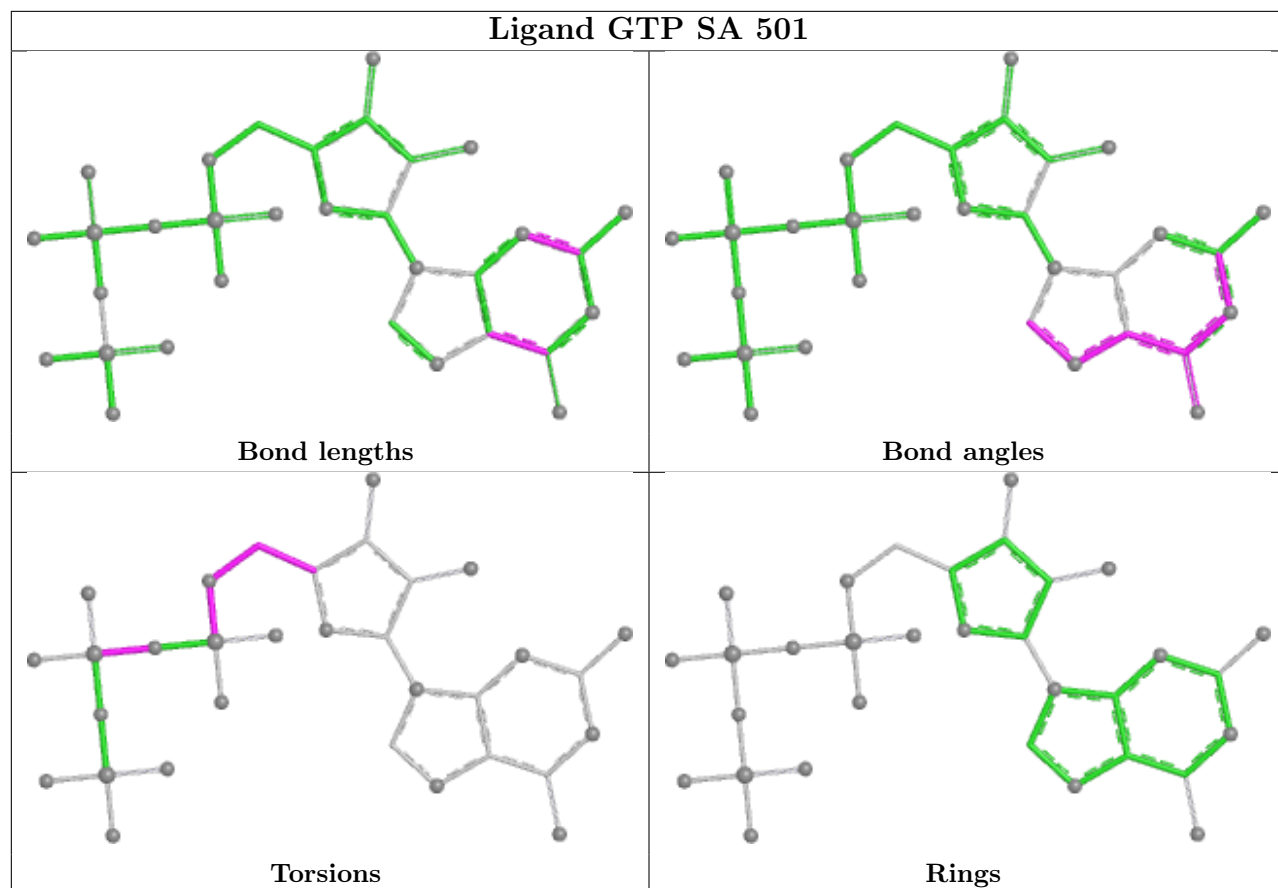
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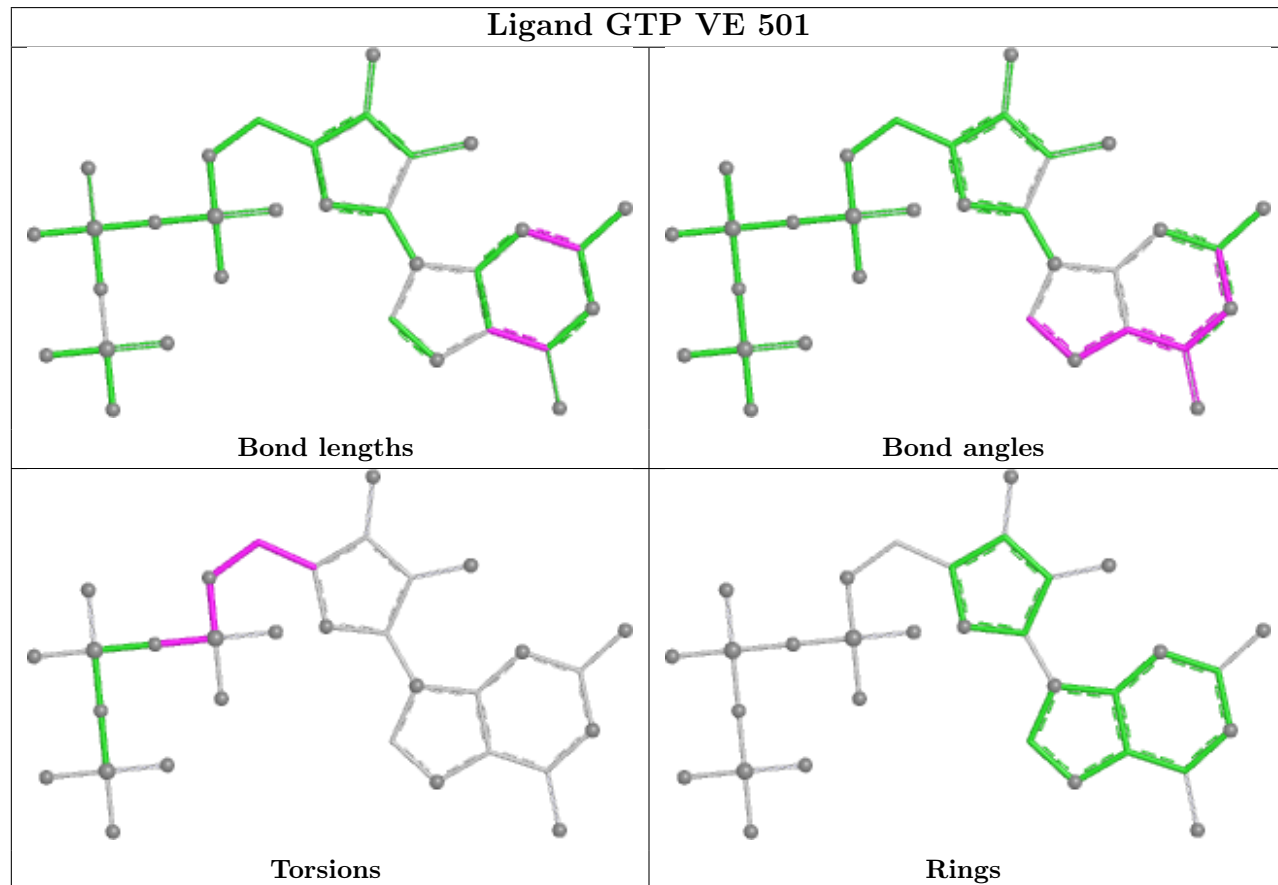
Ligand GTP VA 501



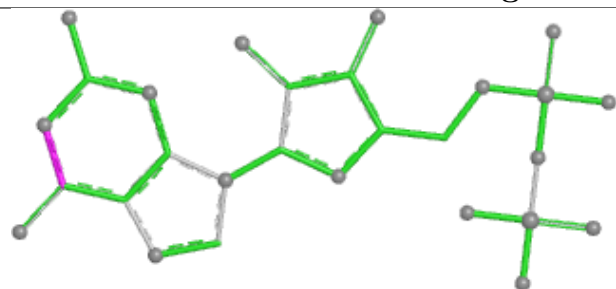
Ligand GTP SA 501



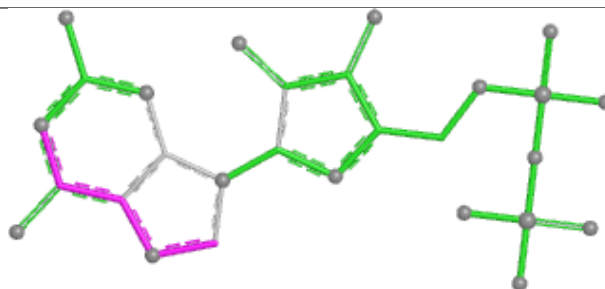
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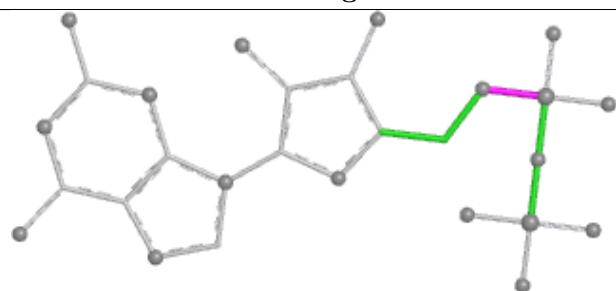
Ligand GDP VF 501



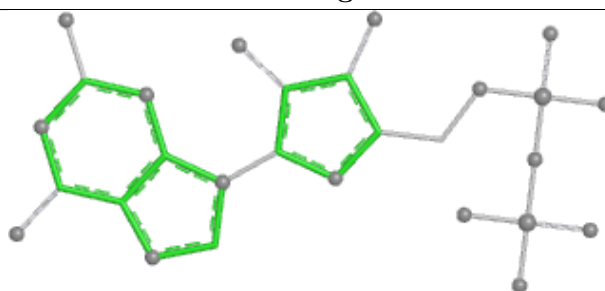
Bond lengths



Bond angles

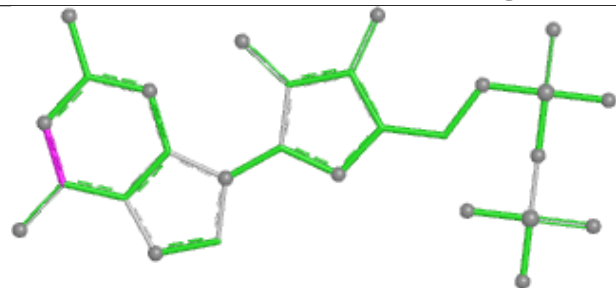


Torsions

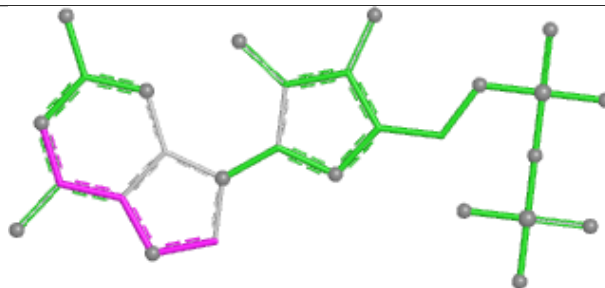


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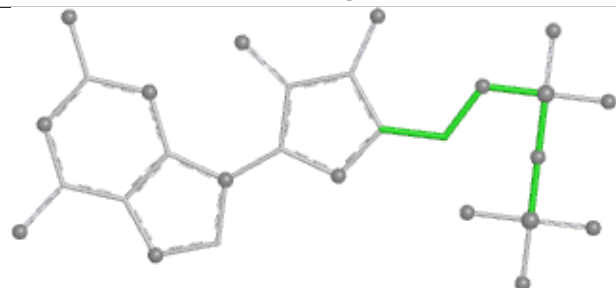
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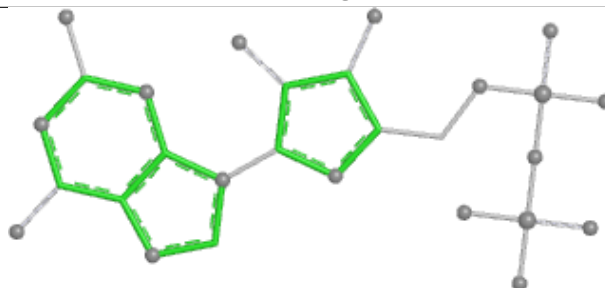
Bond lengths



Bond angles

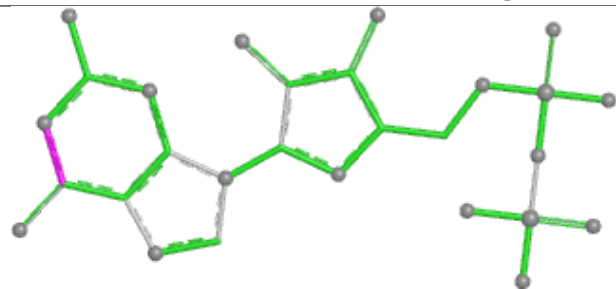


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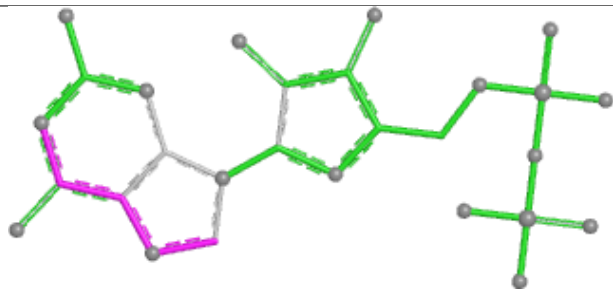


Rings

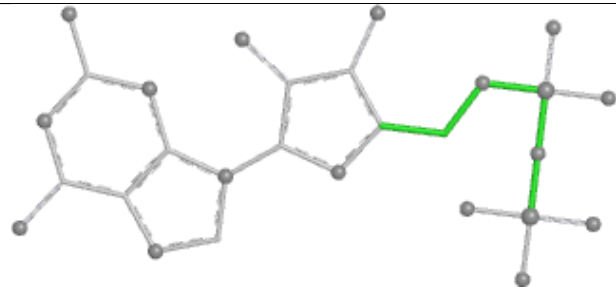
Ligand GDP UH 501



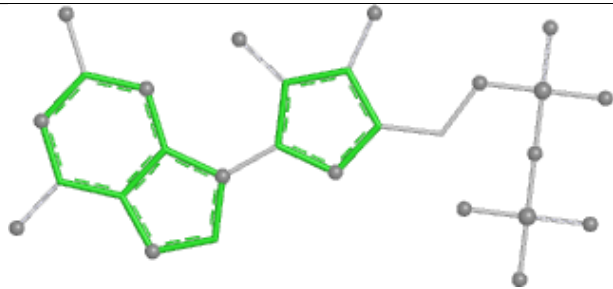
Bond lengths



Bond angles

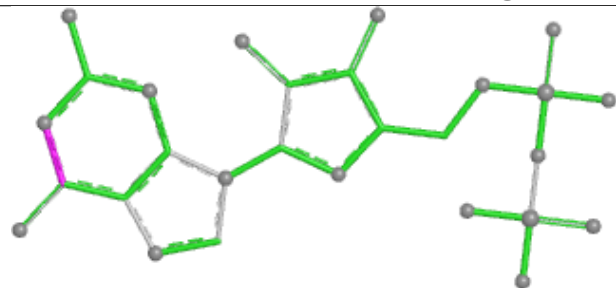


Torsions

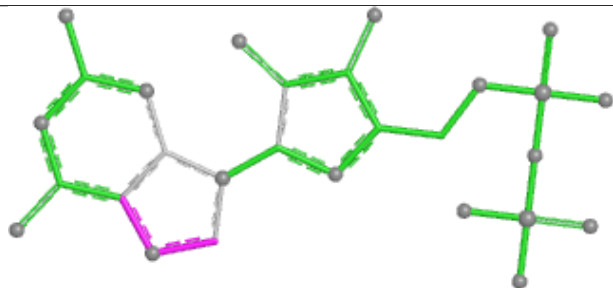


Rings

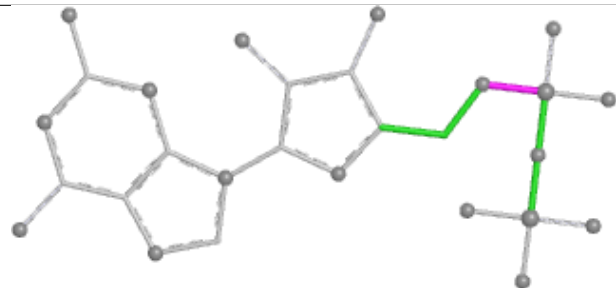
Ligand GDP VN 501



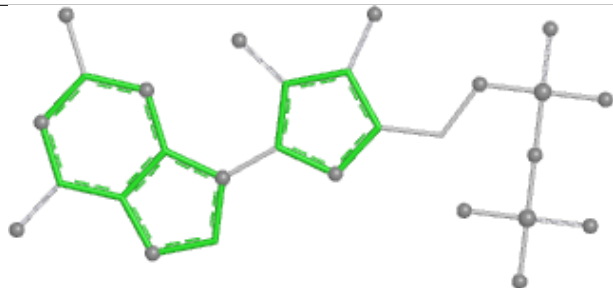
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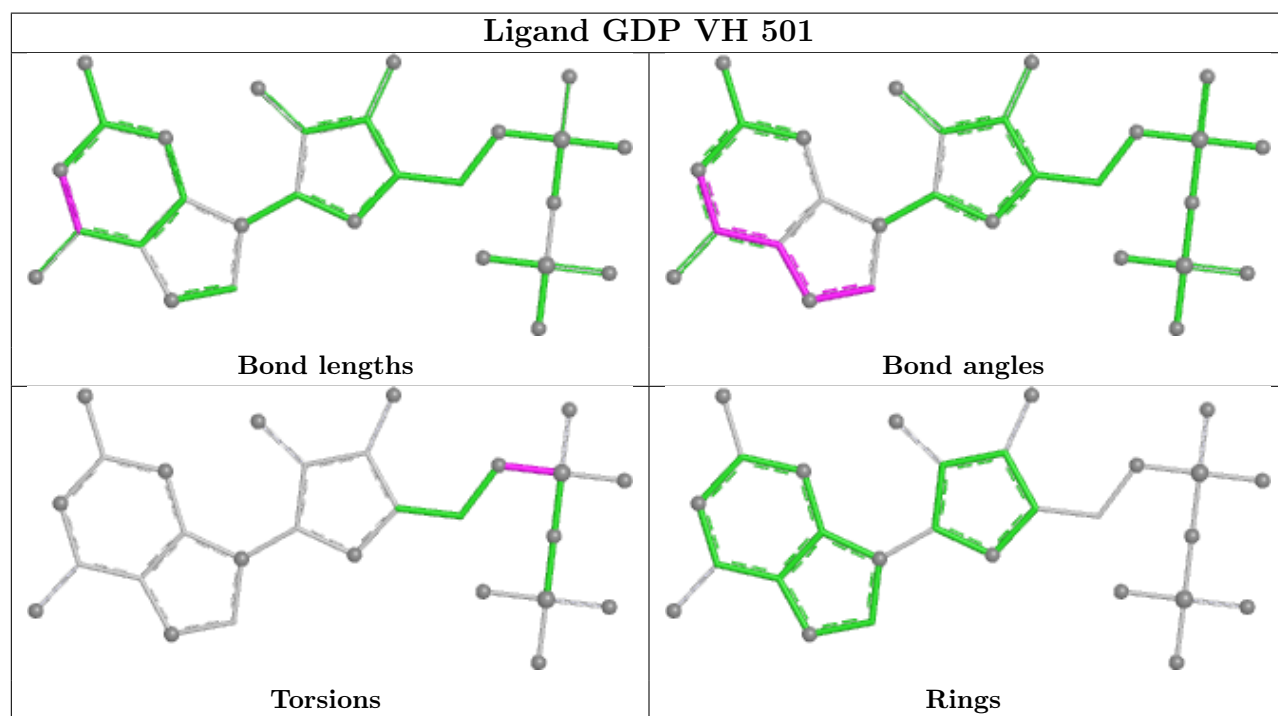
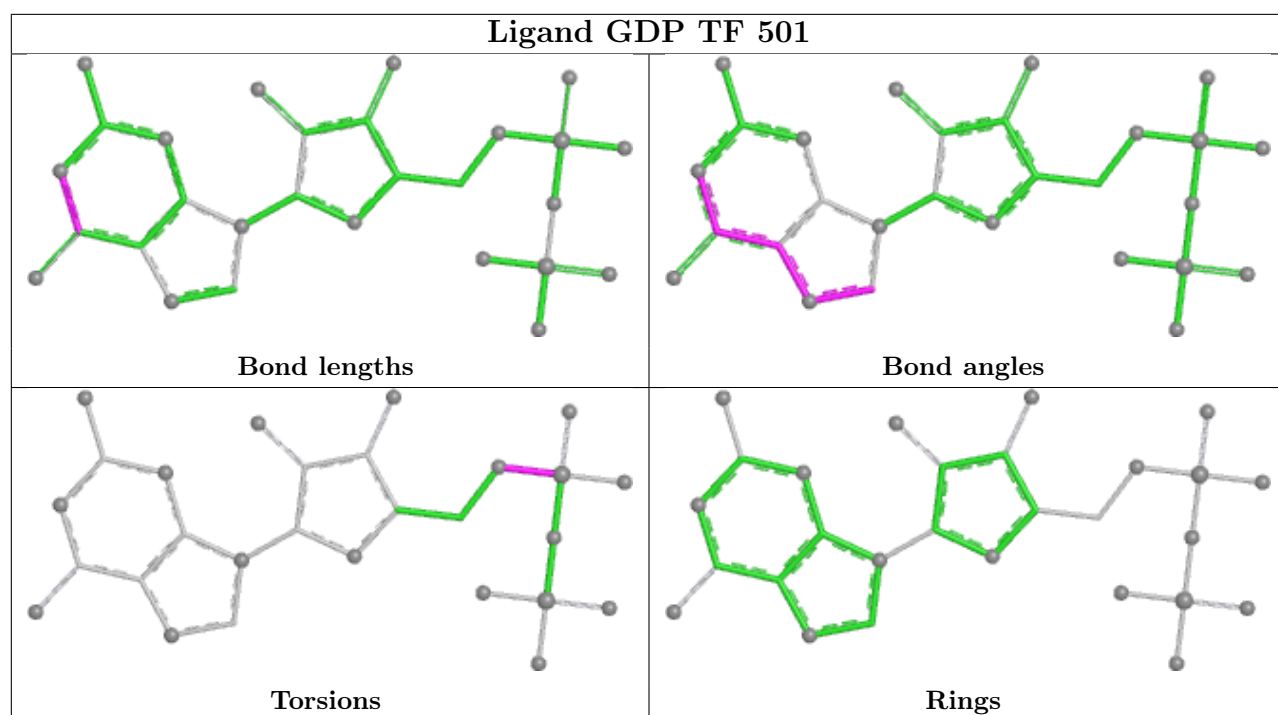
Bond angles



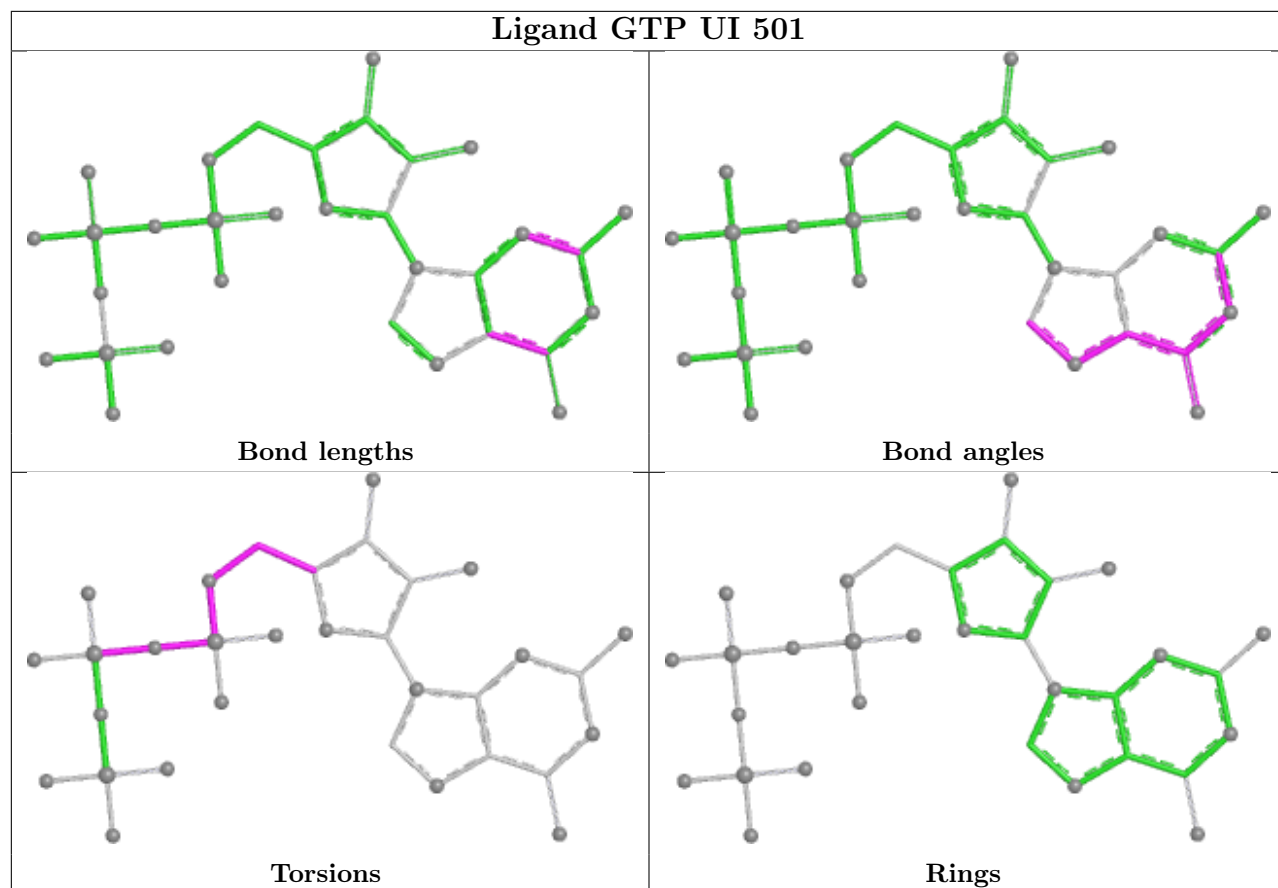
Torsions



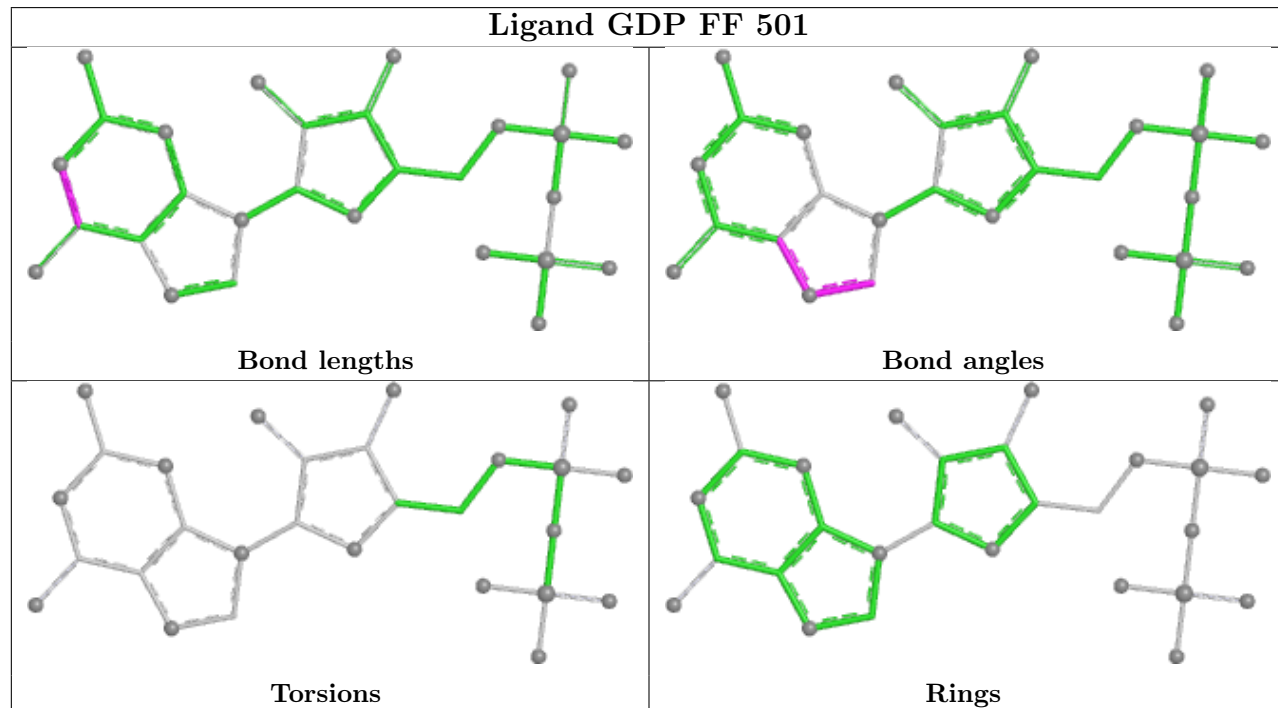
Rings



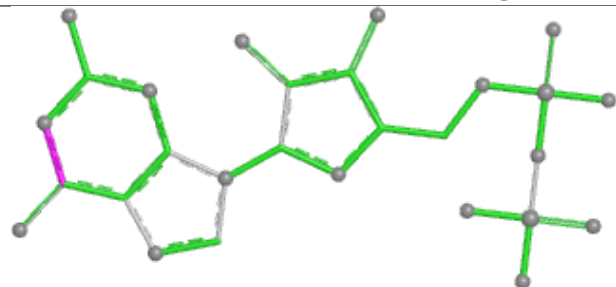
Ligand GTP UI 501



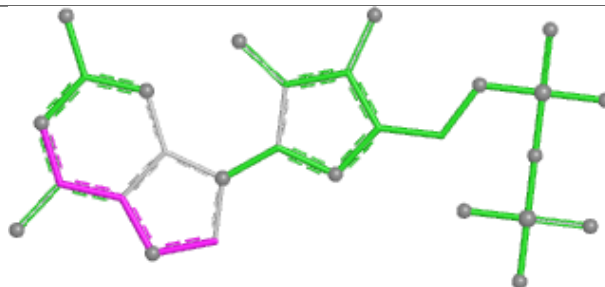
Ligand GDP FF 501



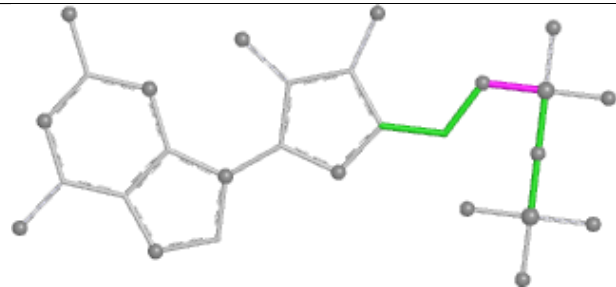
Ligand GDP MH 501



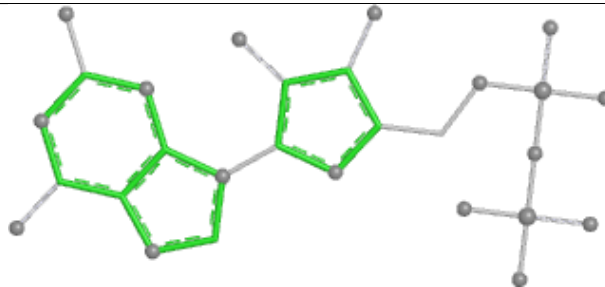
Bond lengths



Bond angles

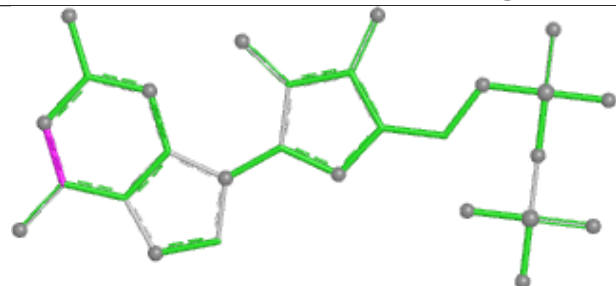


Torsions

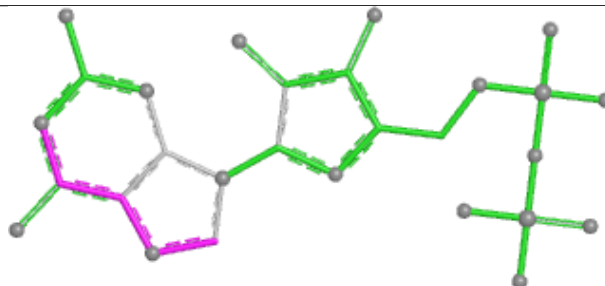


Rings

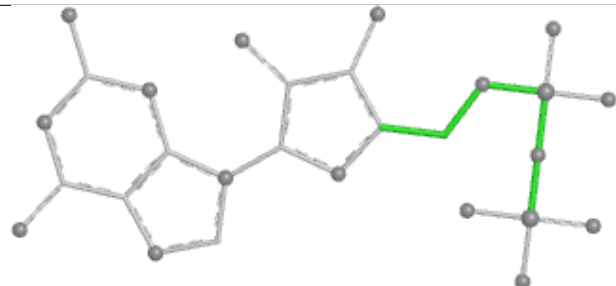
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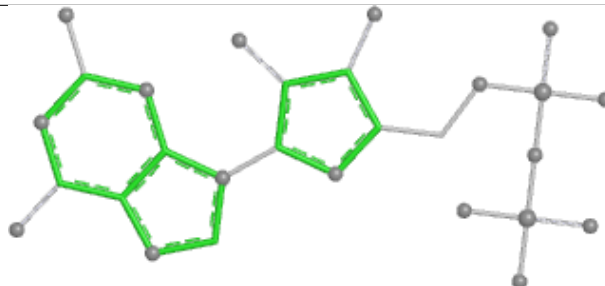
Bond lengths



Bond angles

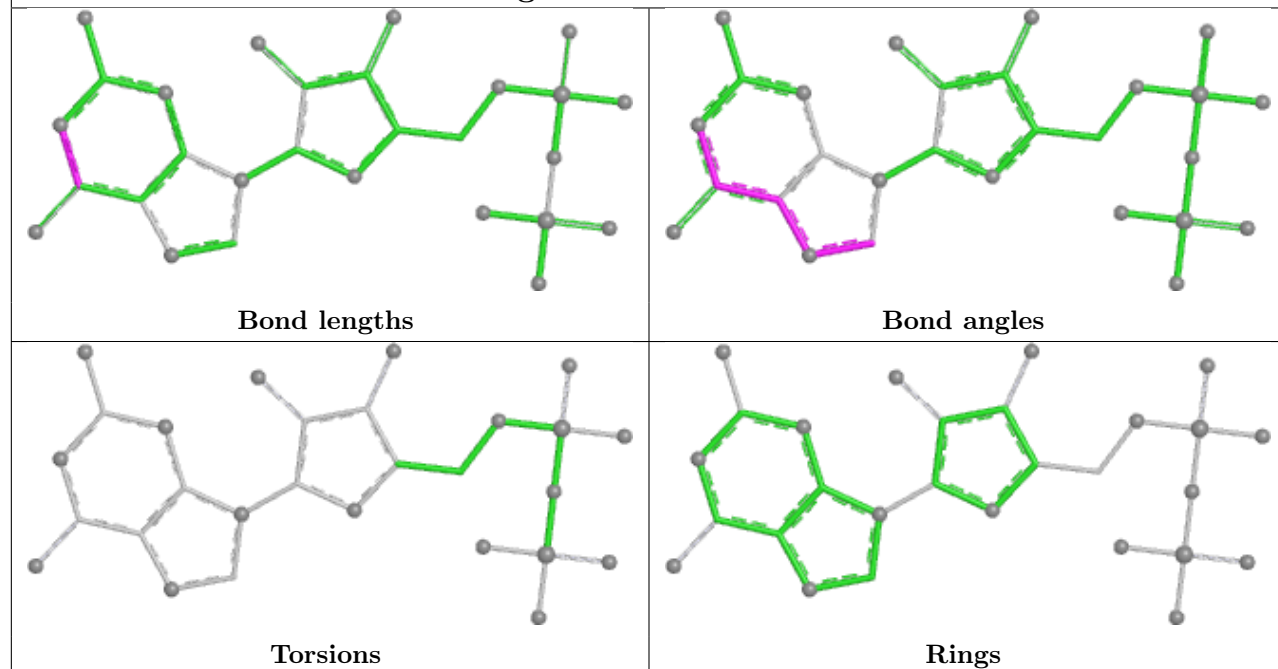


Torsions

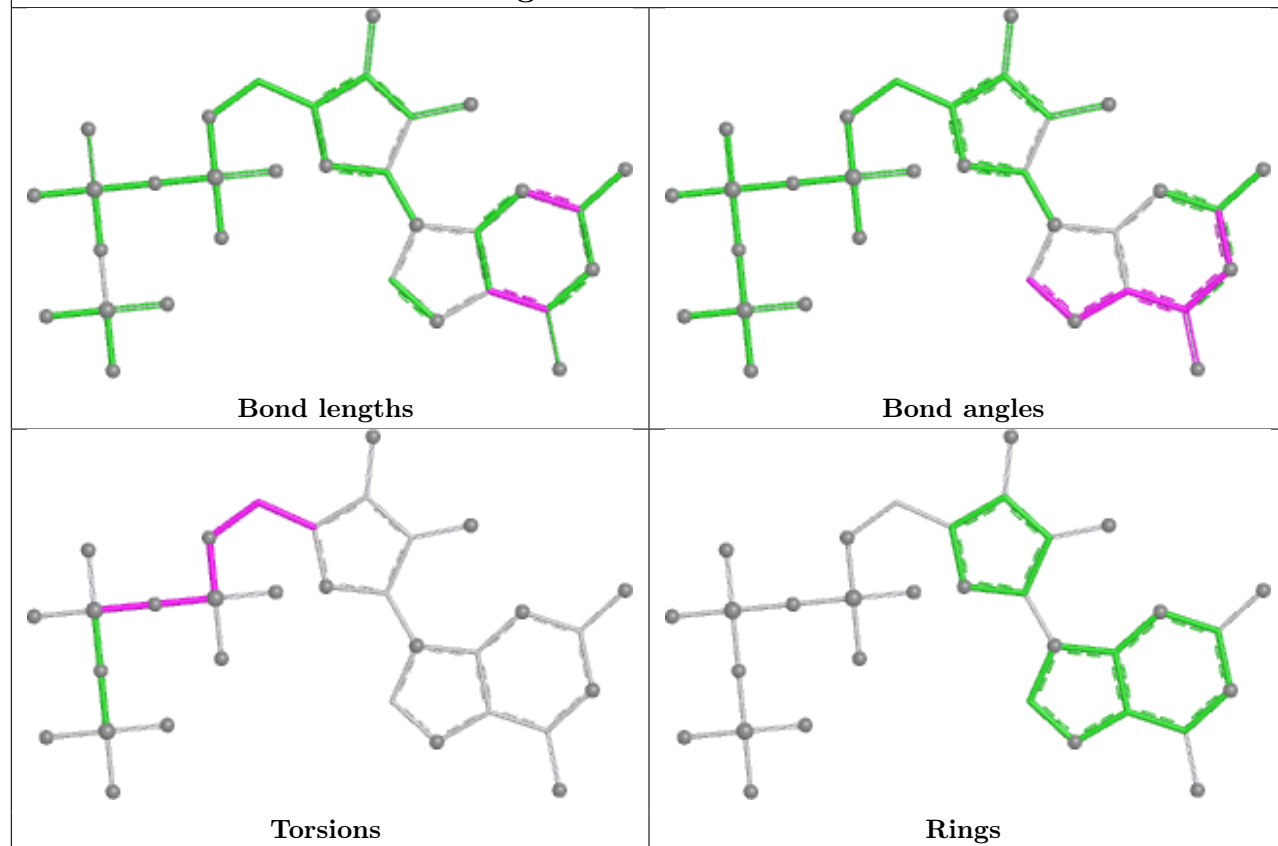


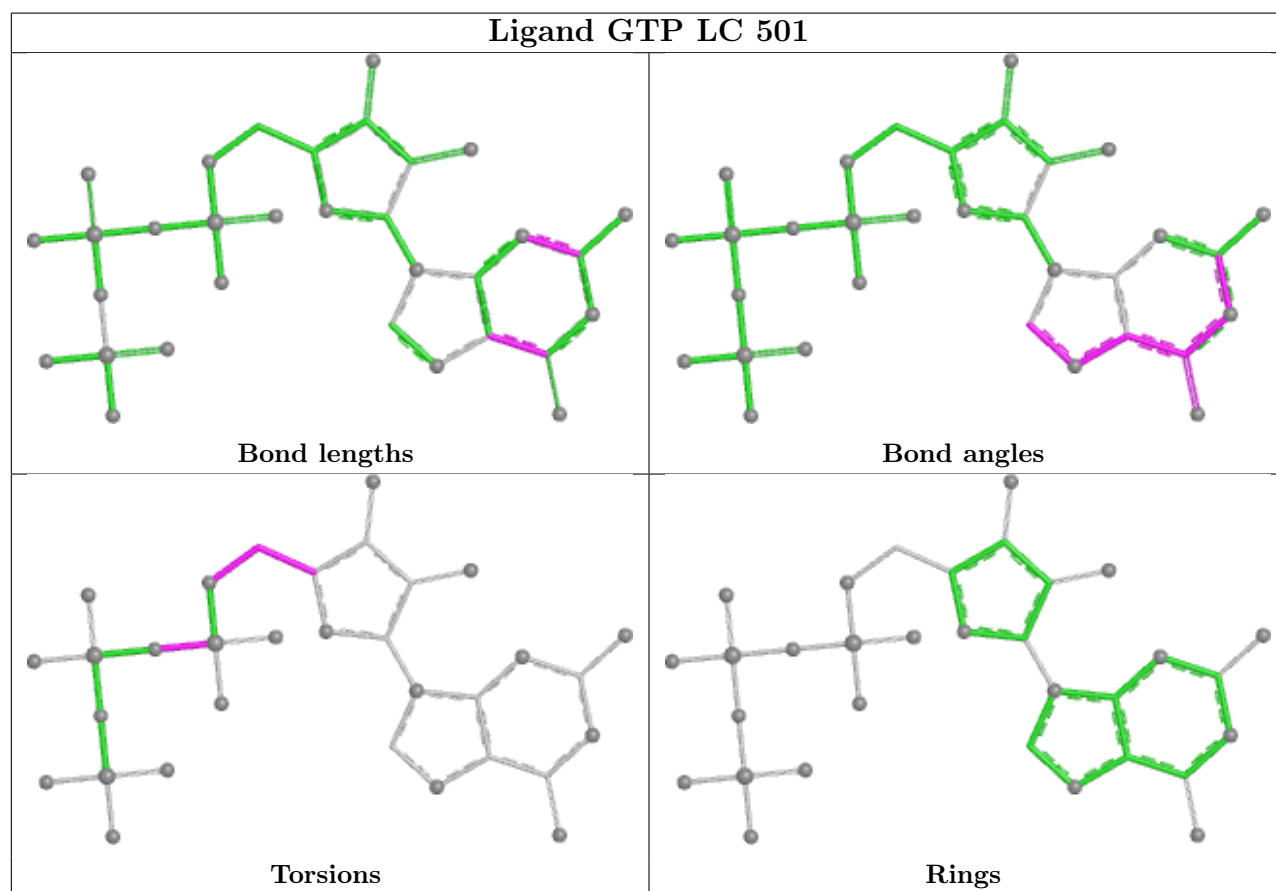
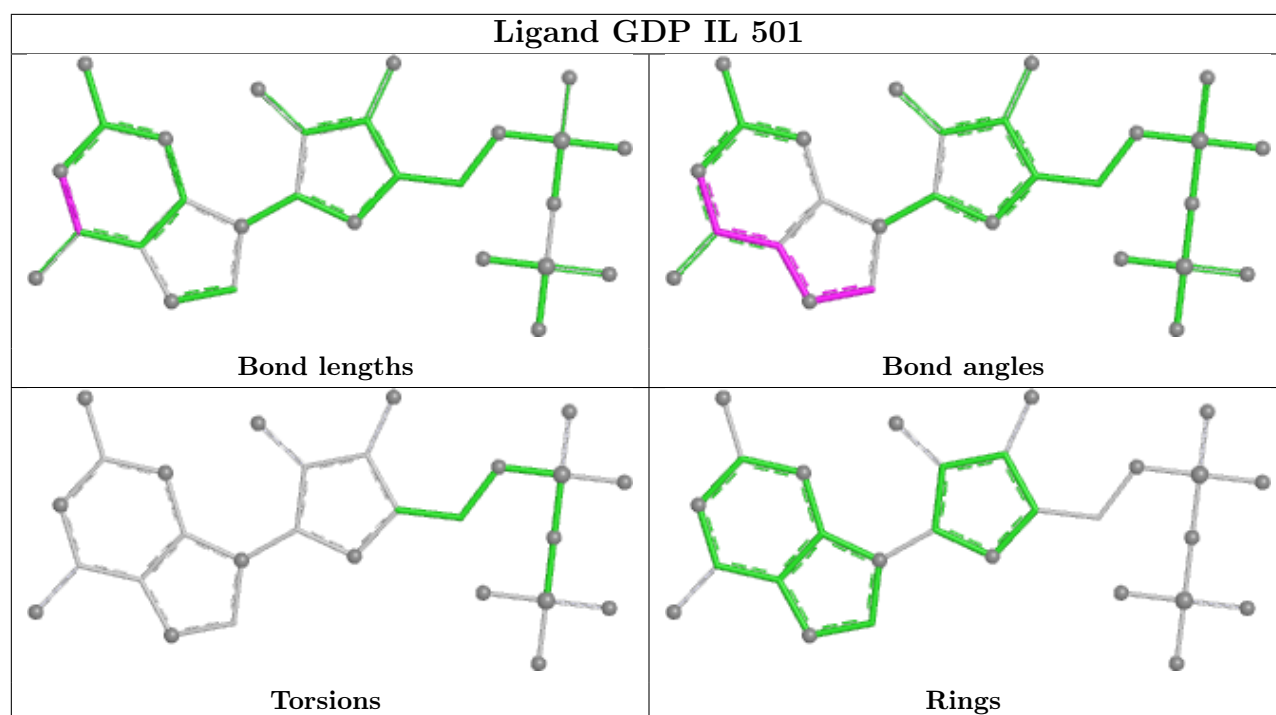
Rings

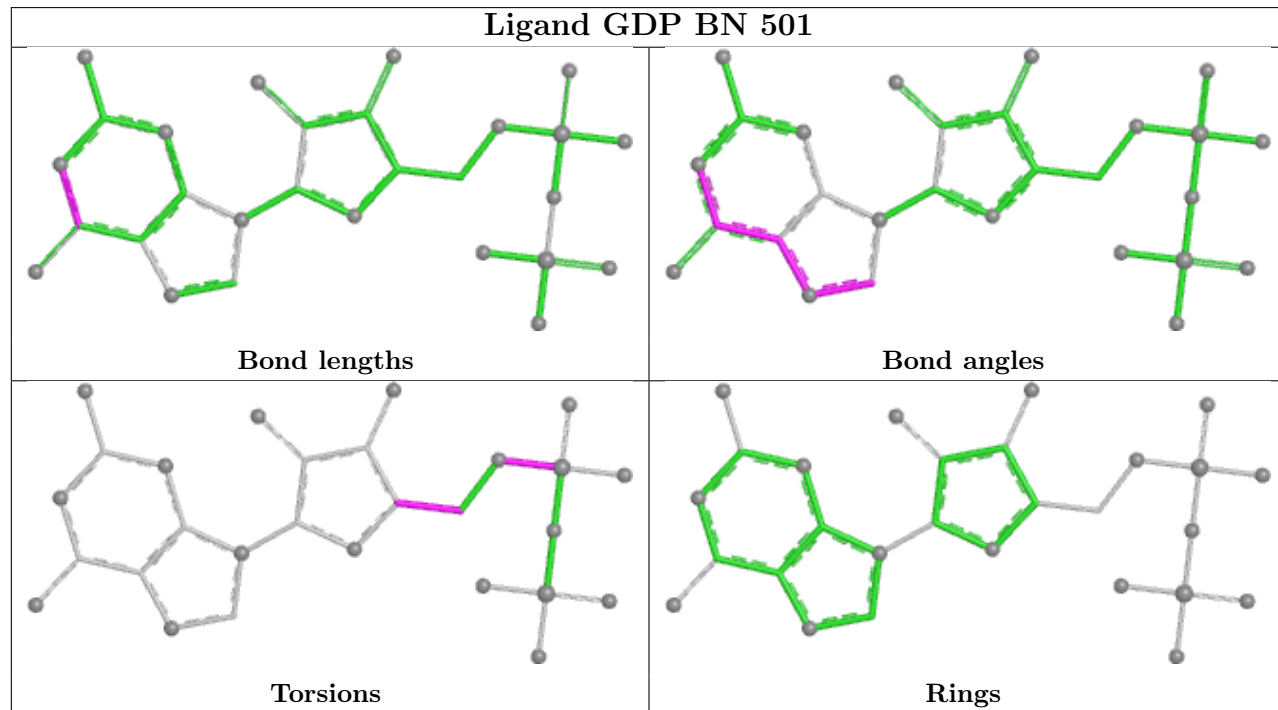
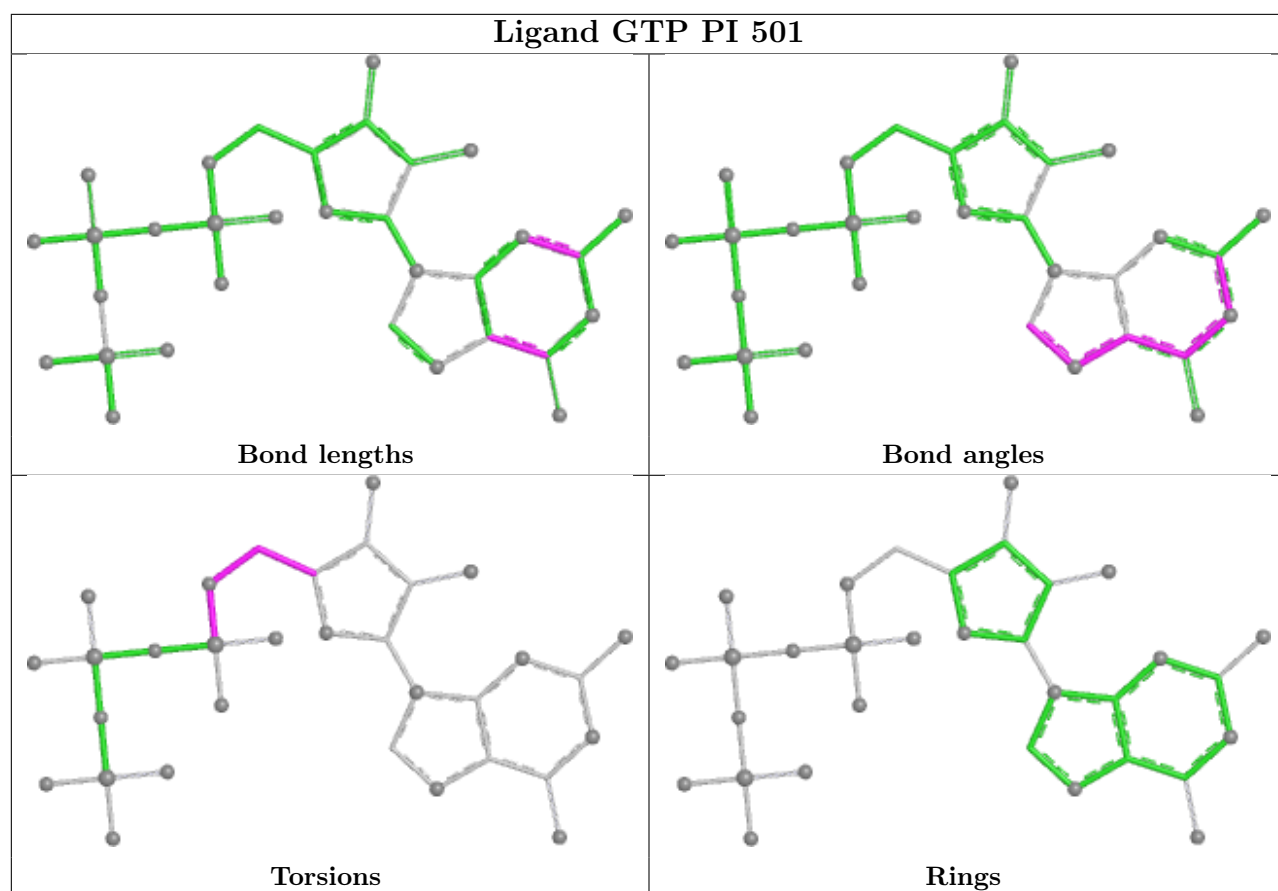
Ligand GDP LN 501



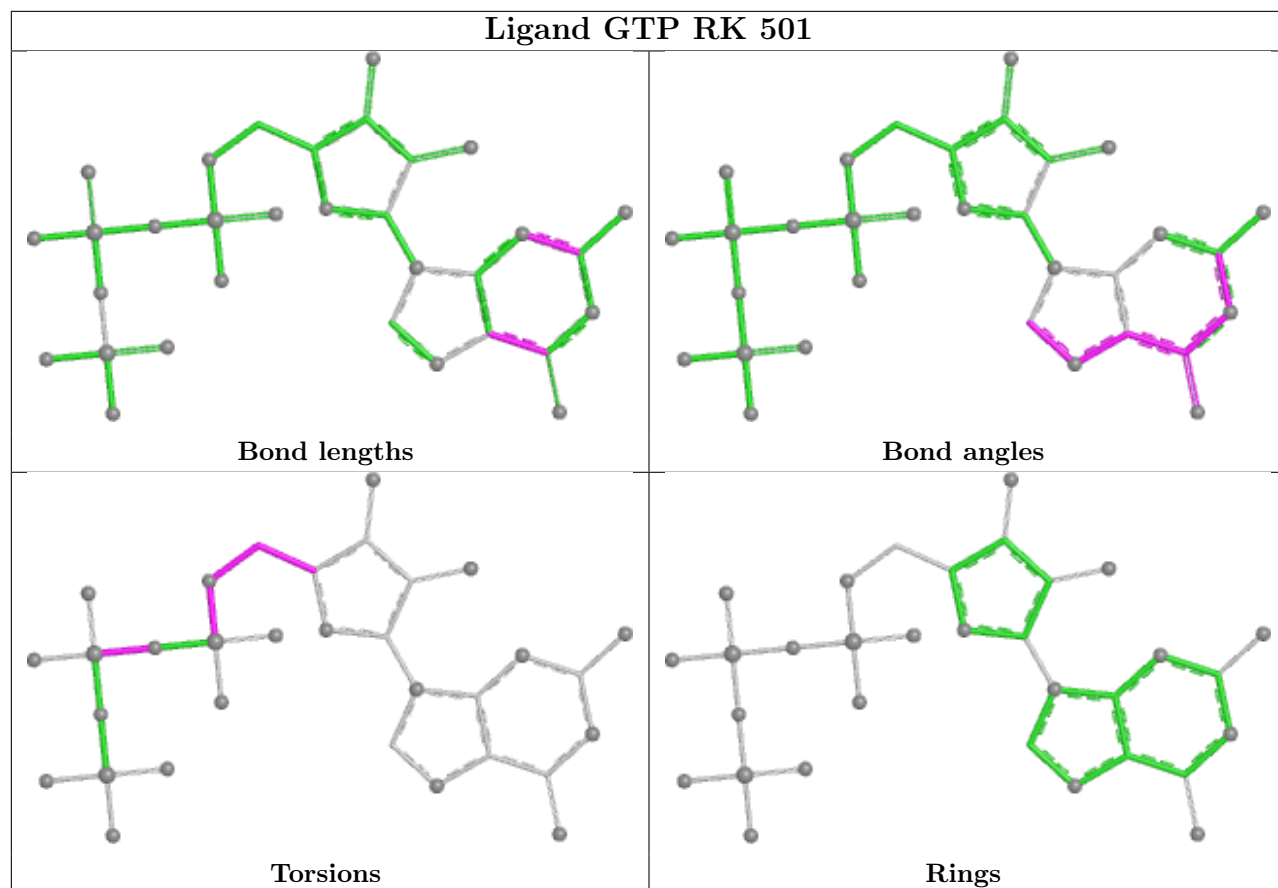
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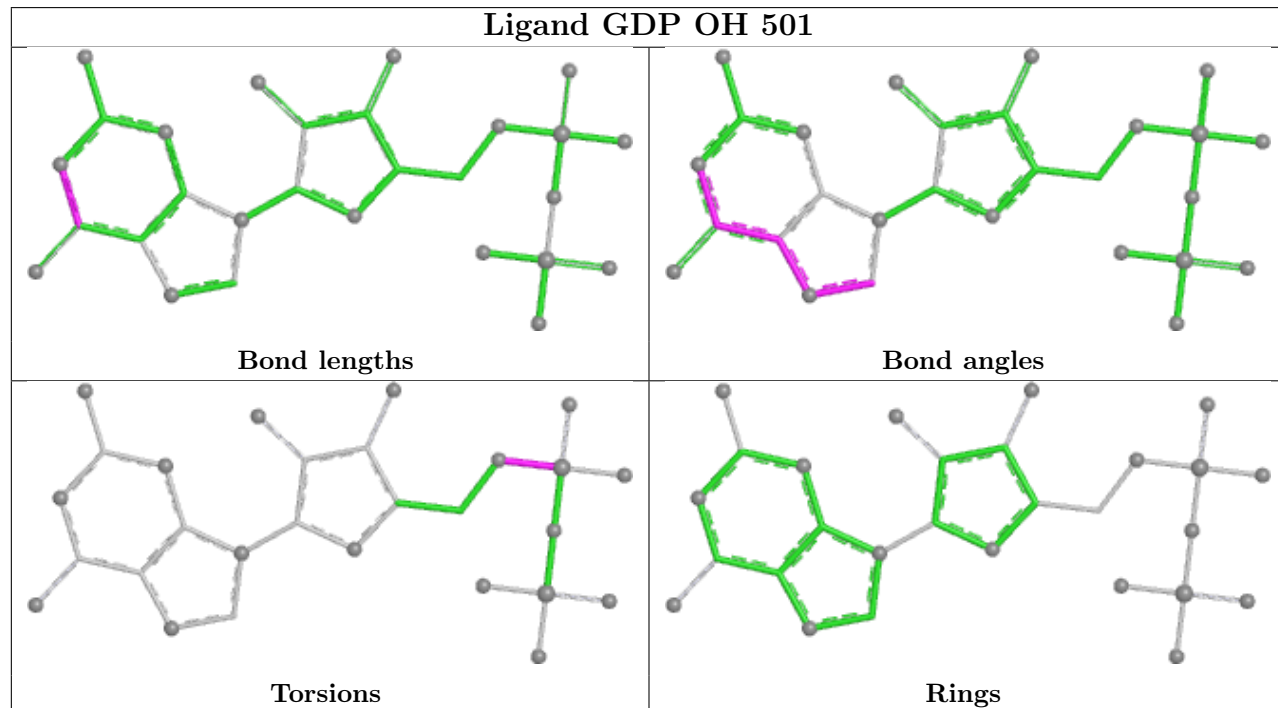




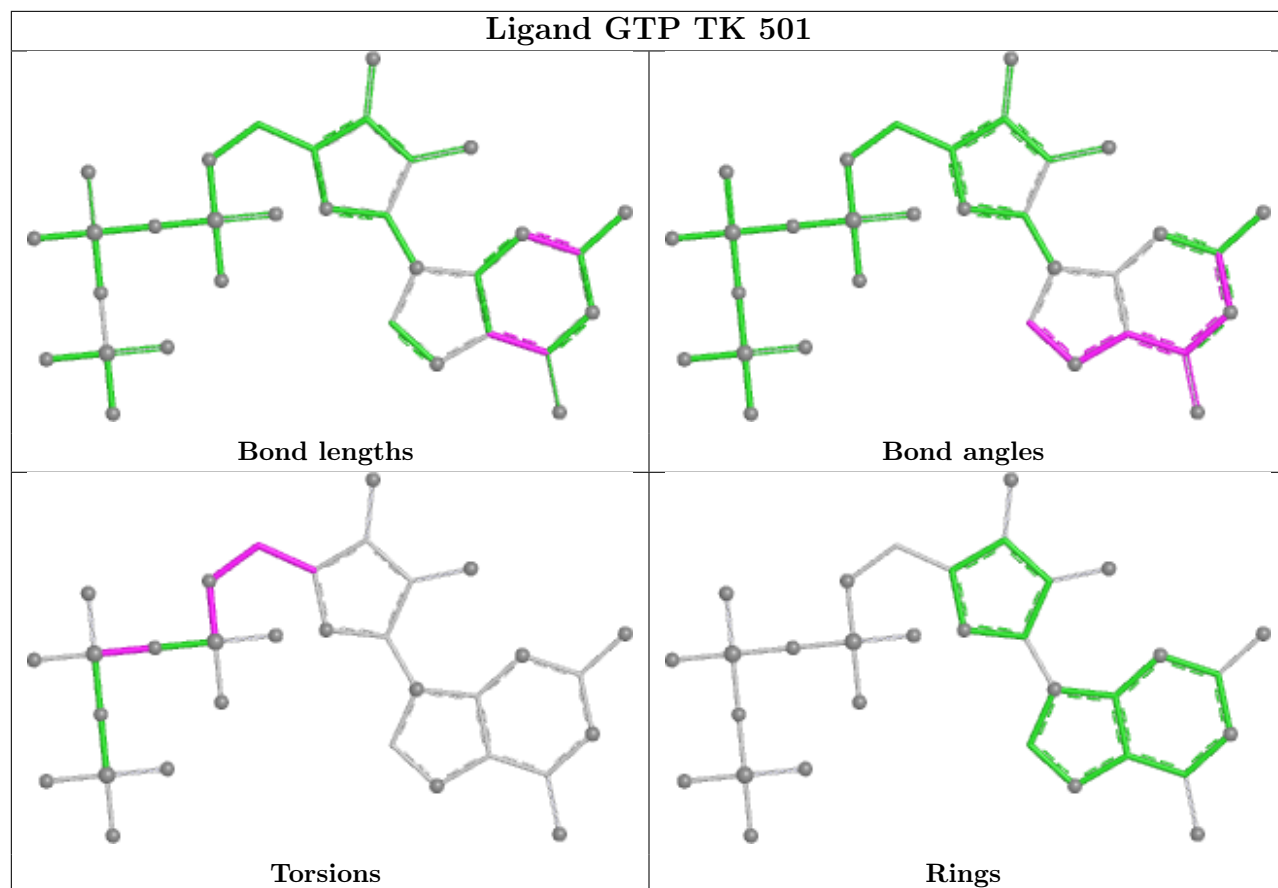
Ligand GTP RK 501



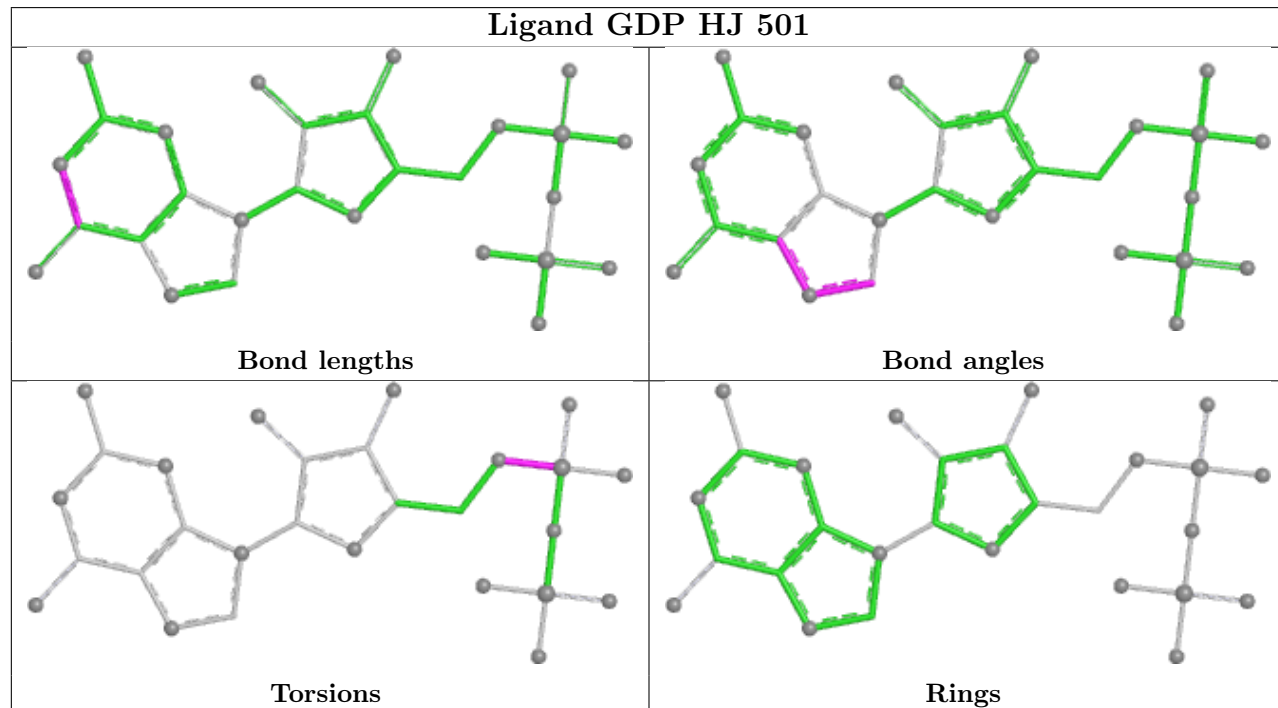
Ligand GDP OH 501



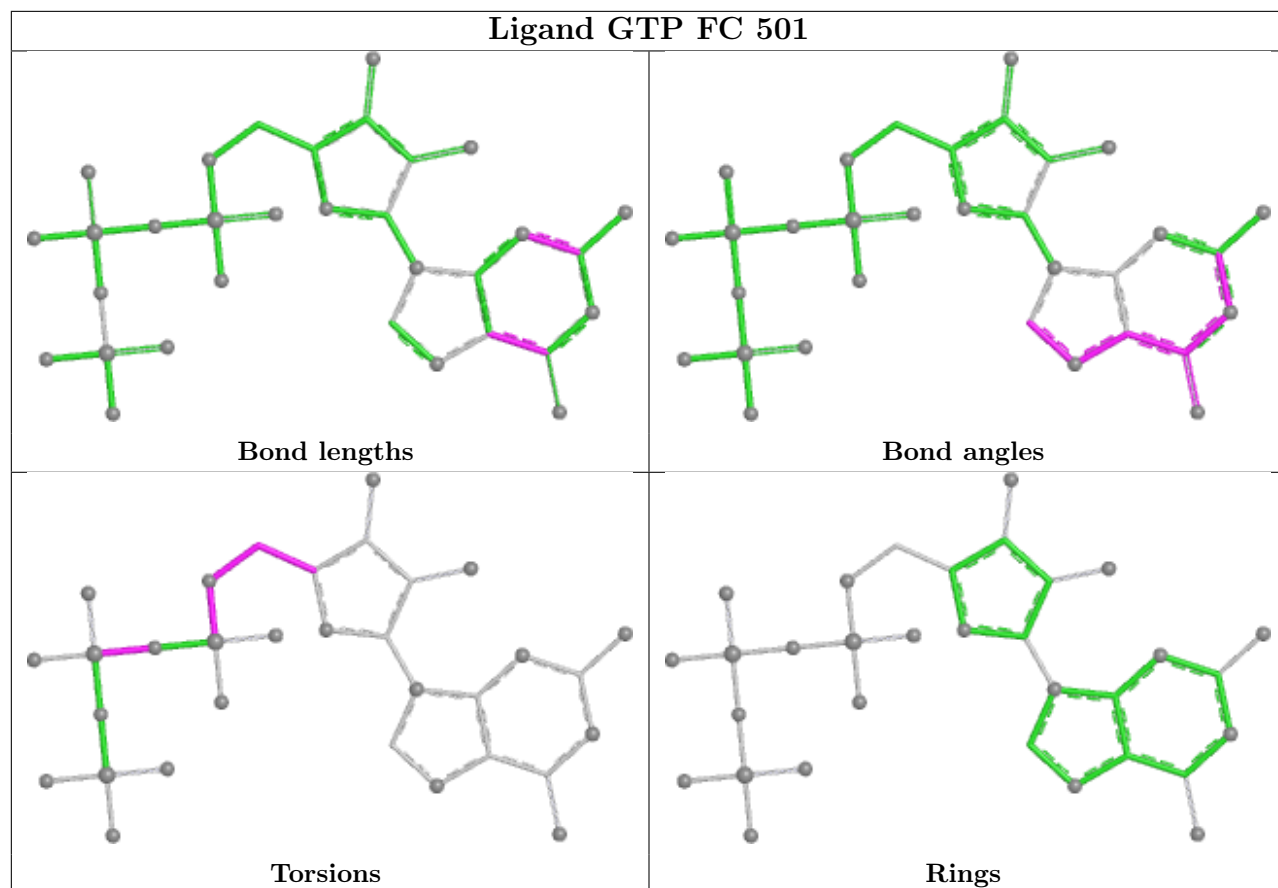
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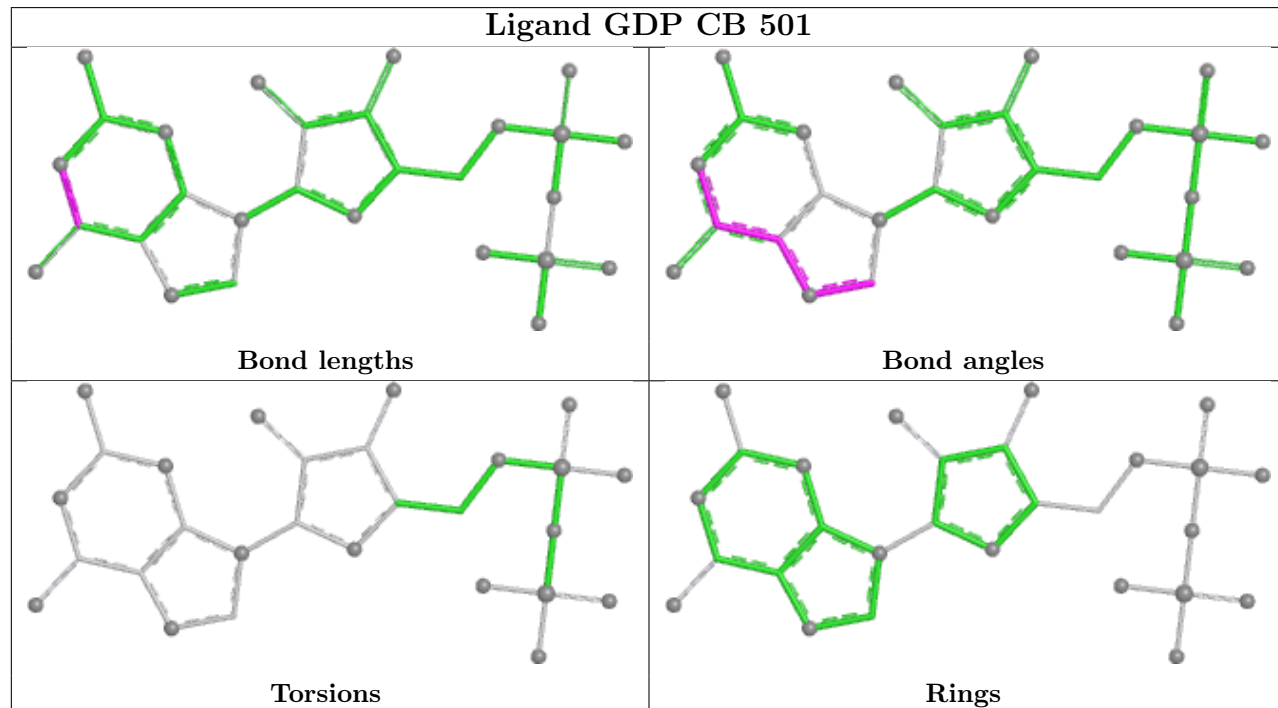
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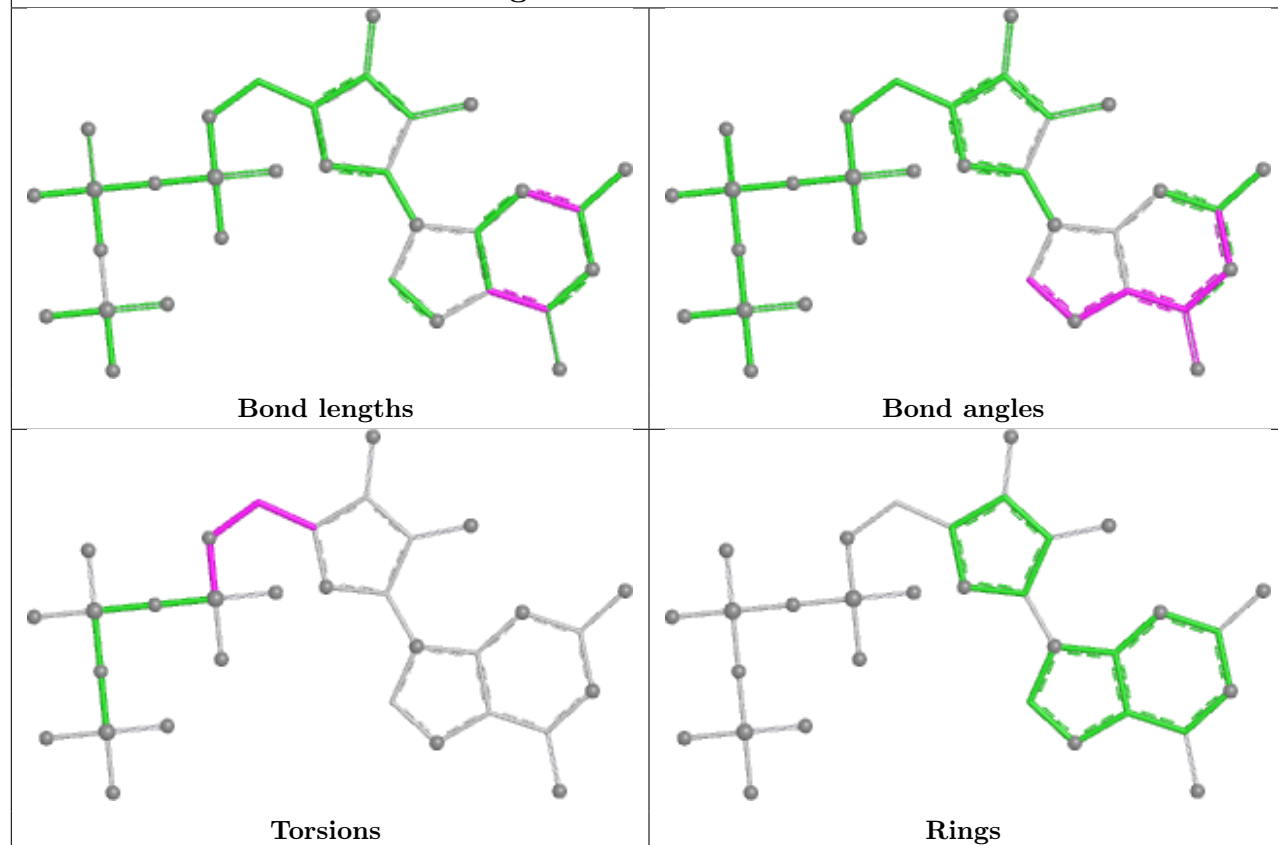
Ligand GTP FC 501



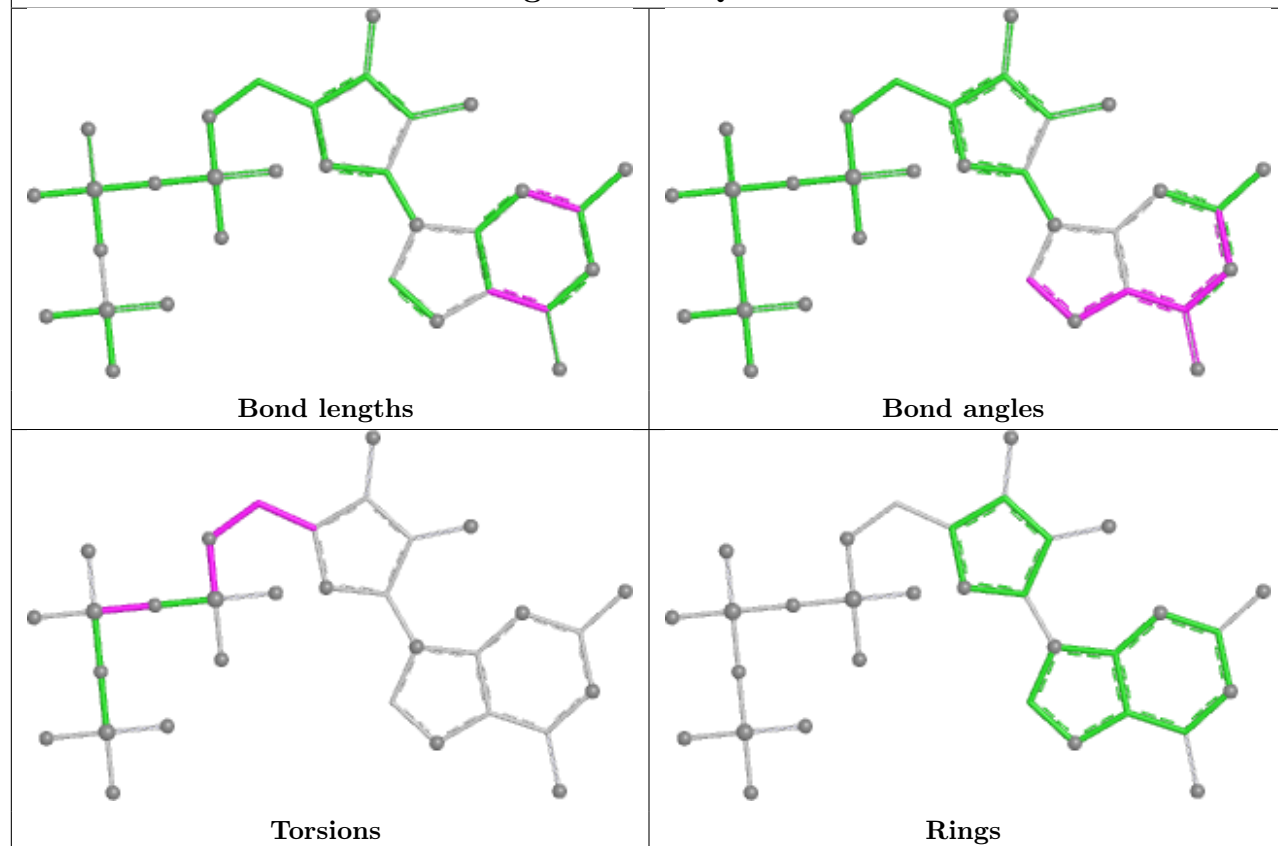
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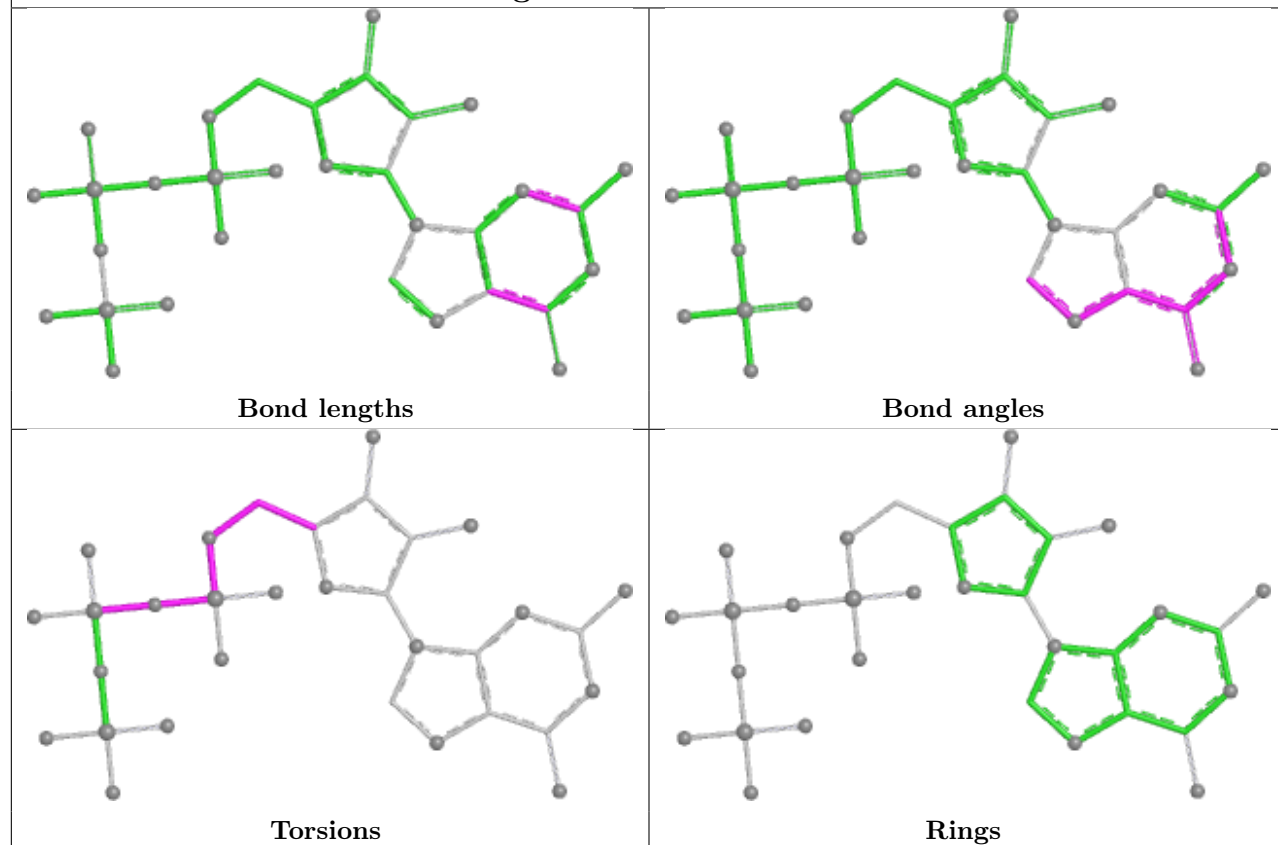
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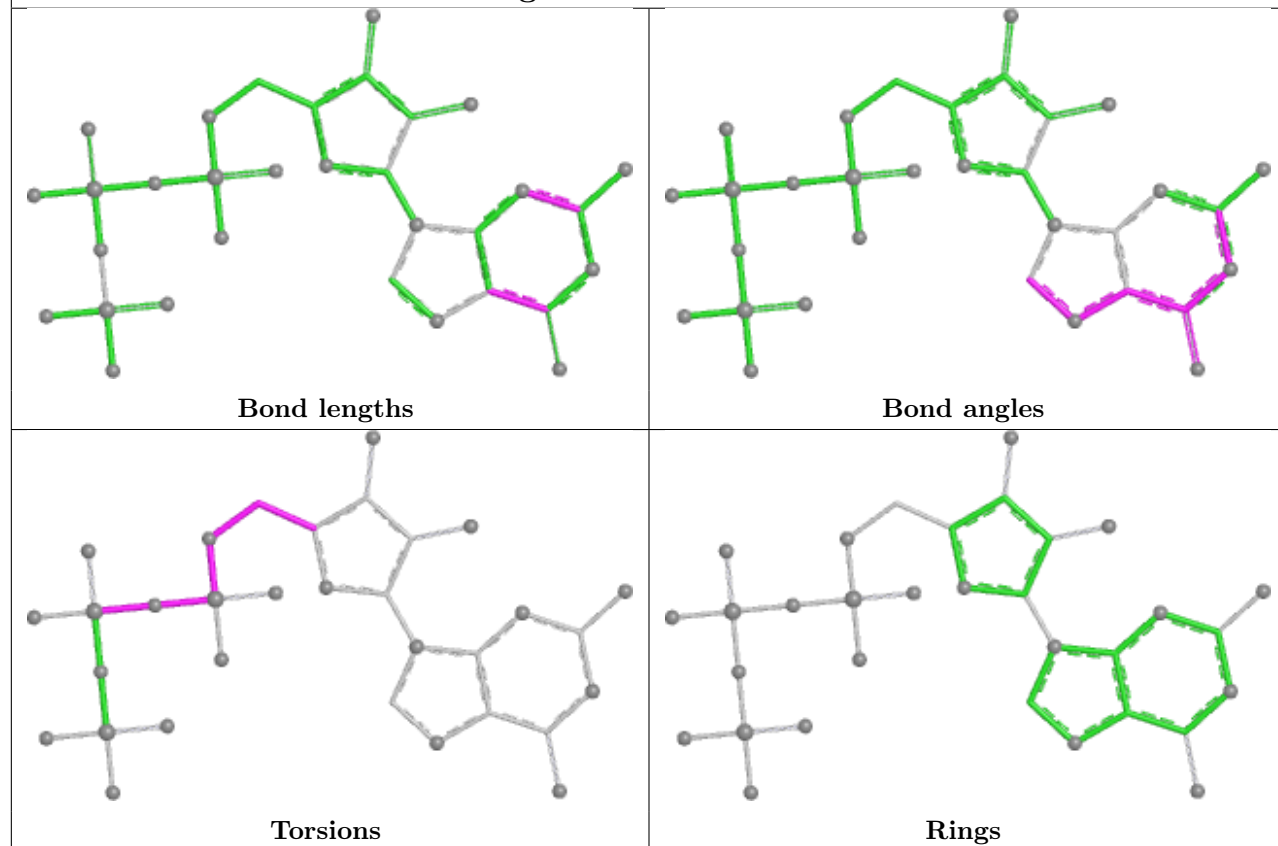
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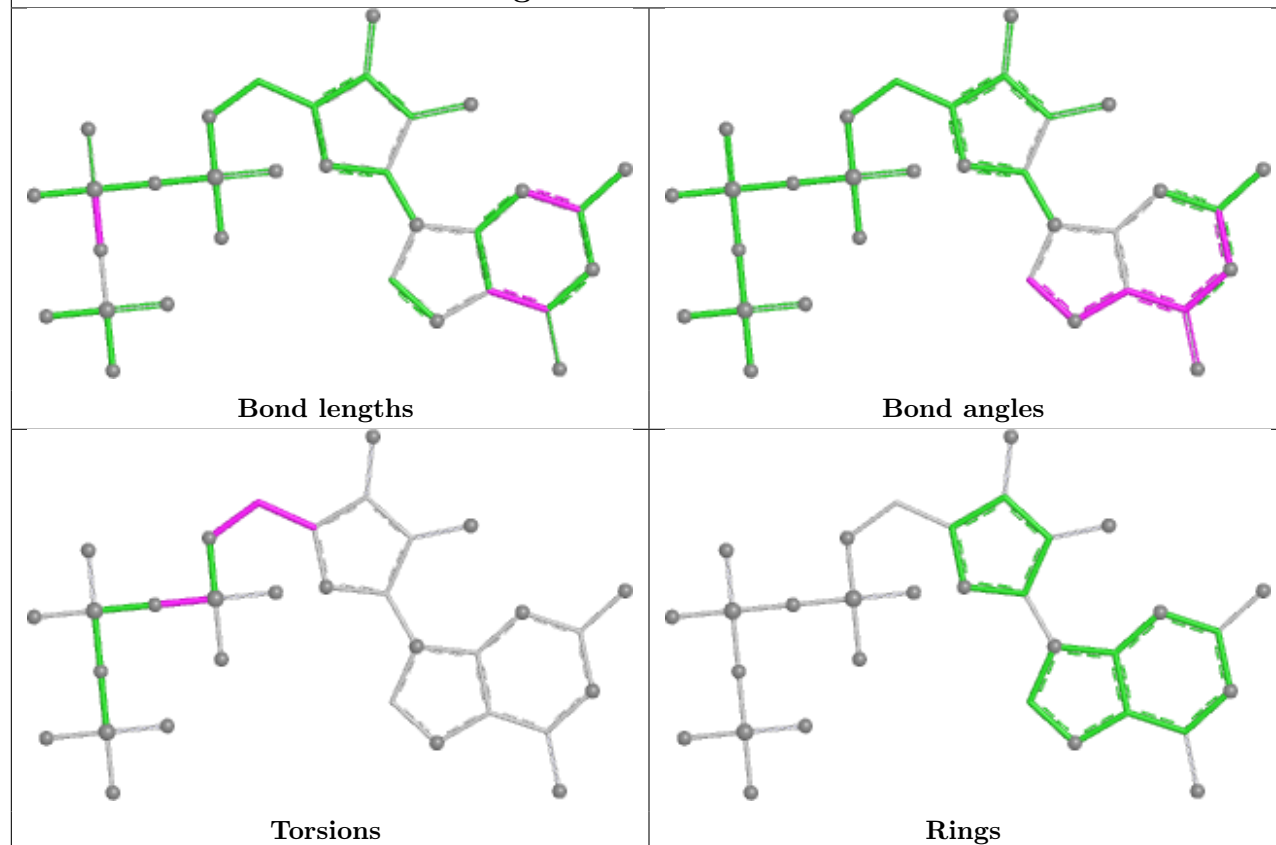
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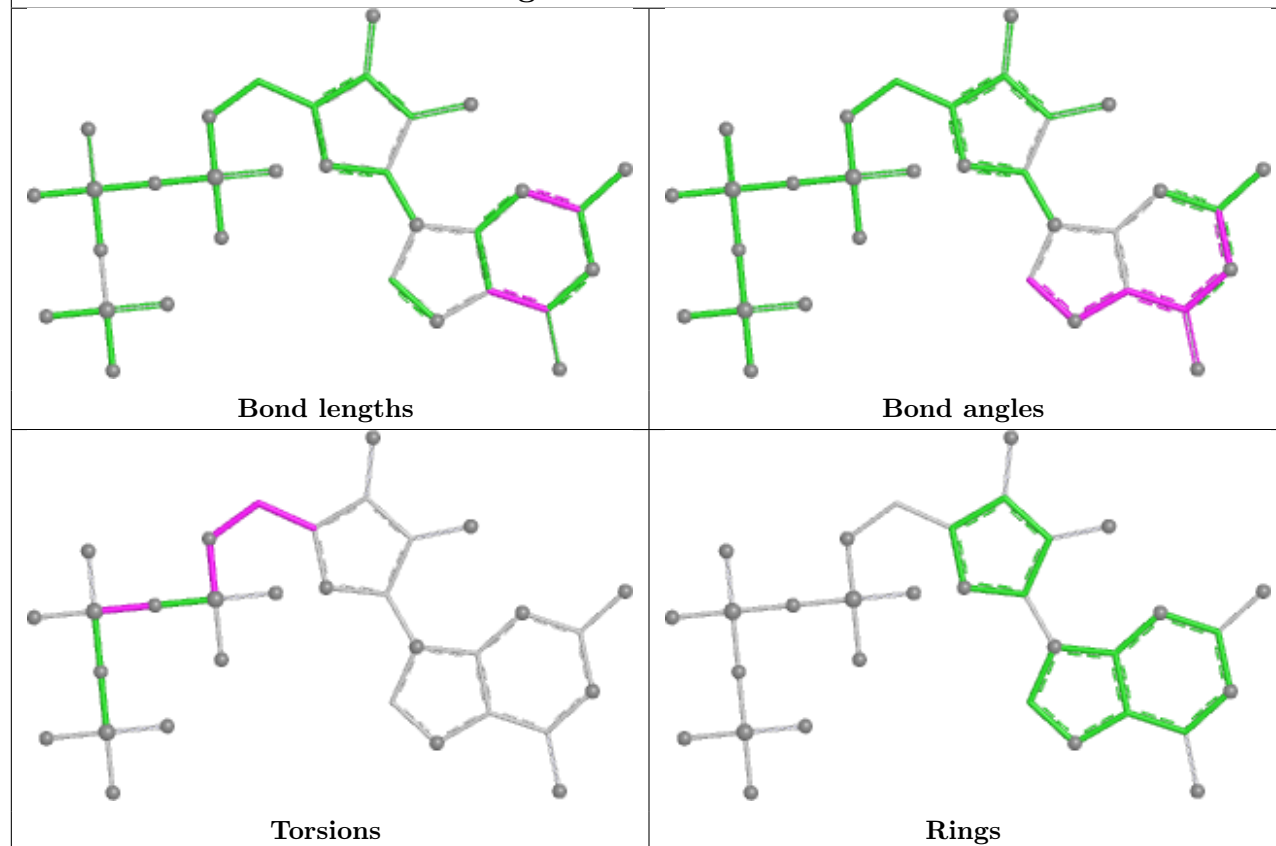
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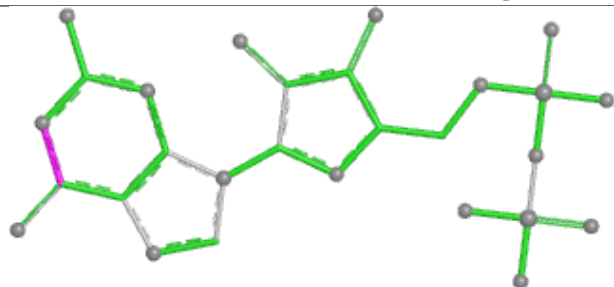
Ligand GTP OM 501



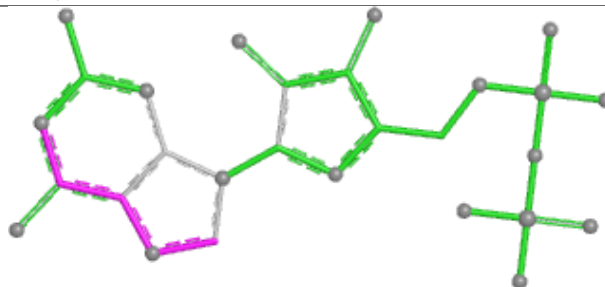
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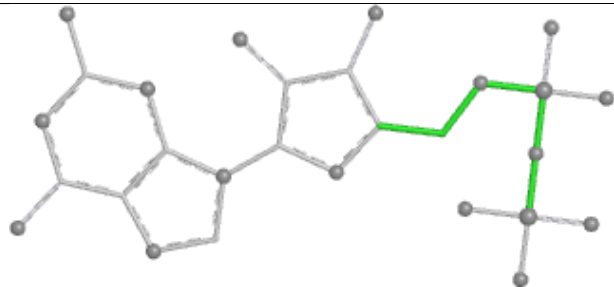
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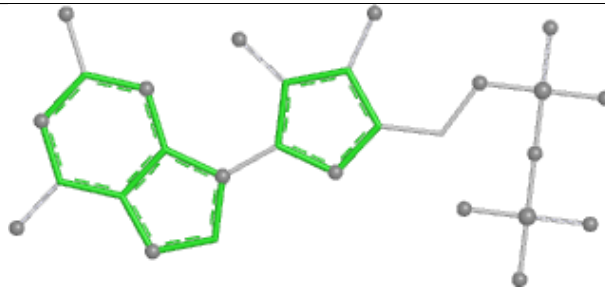
Bond lengths



Bond angles

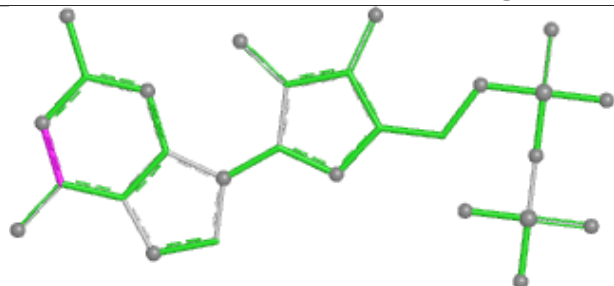


Torsions

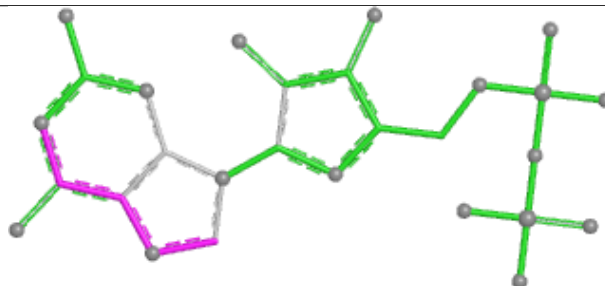


Rings

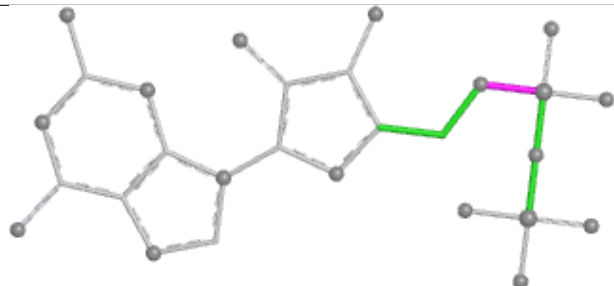
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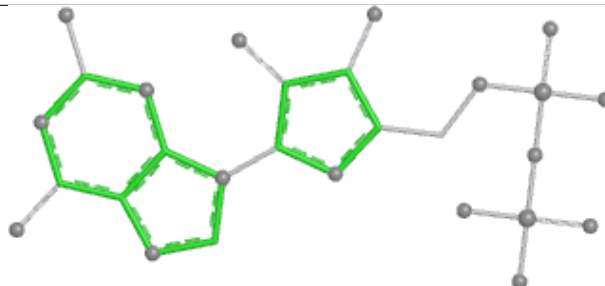
Bond lengths



Bond angles

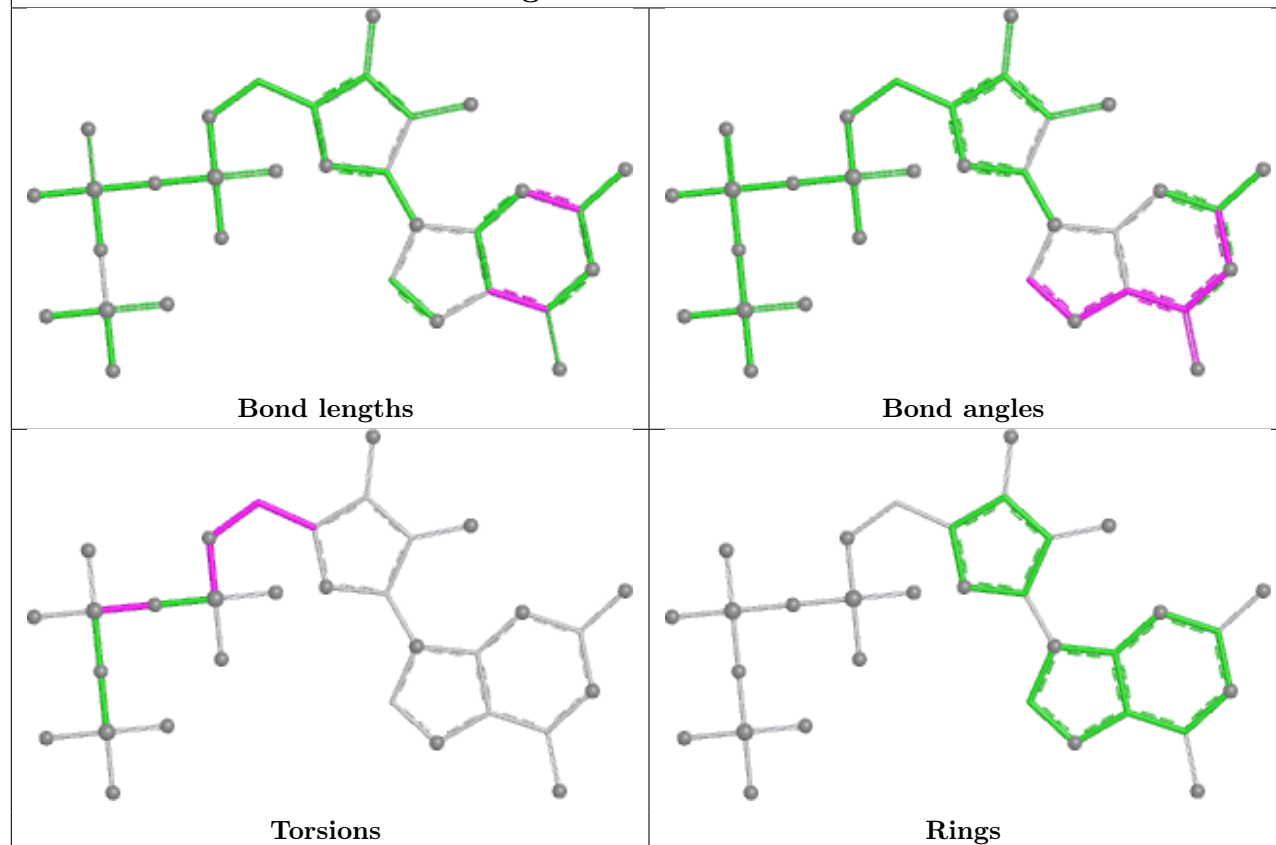


Torsions

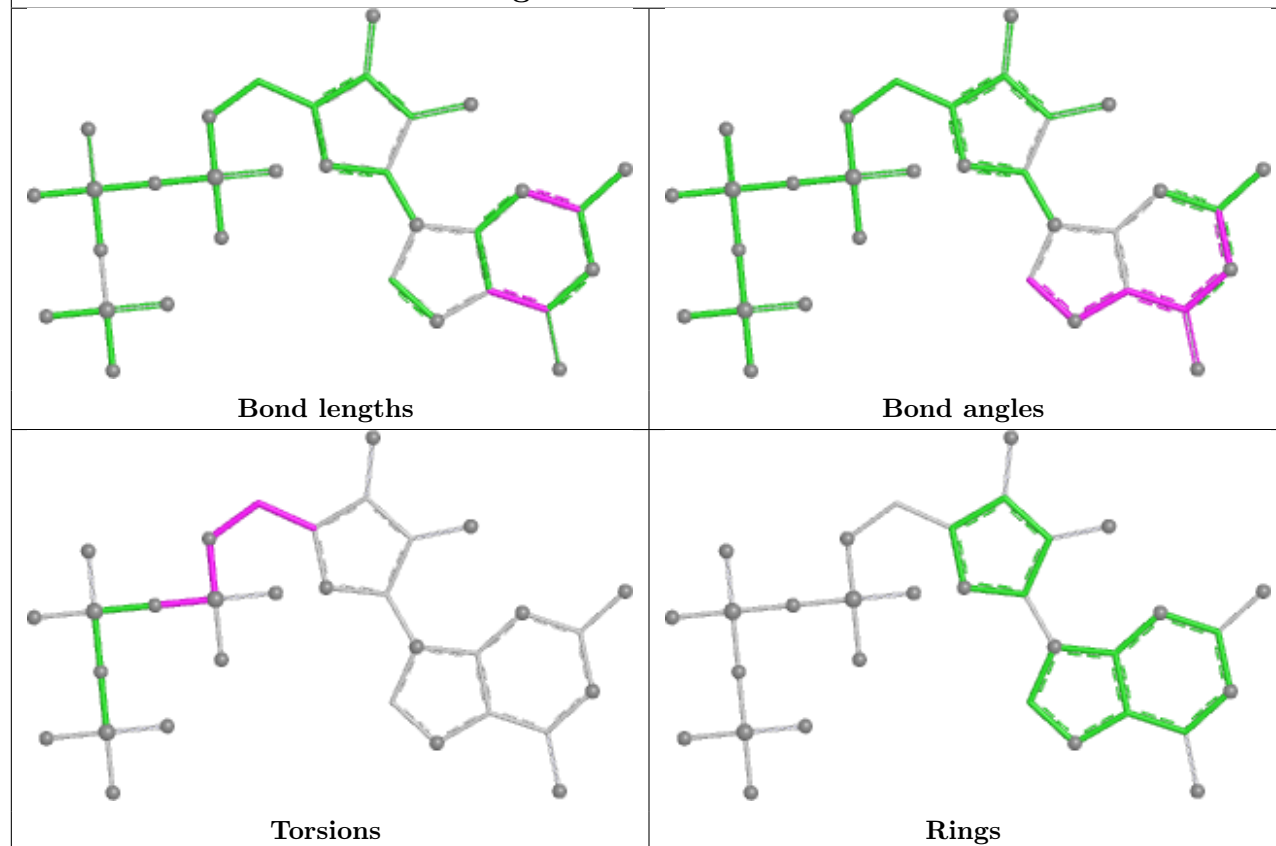


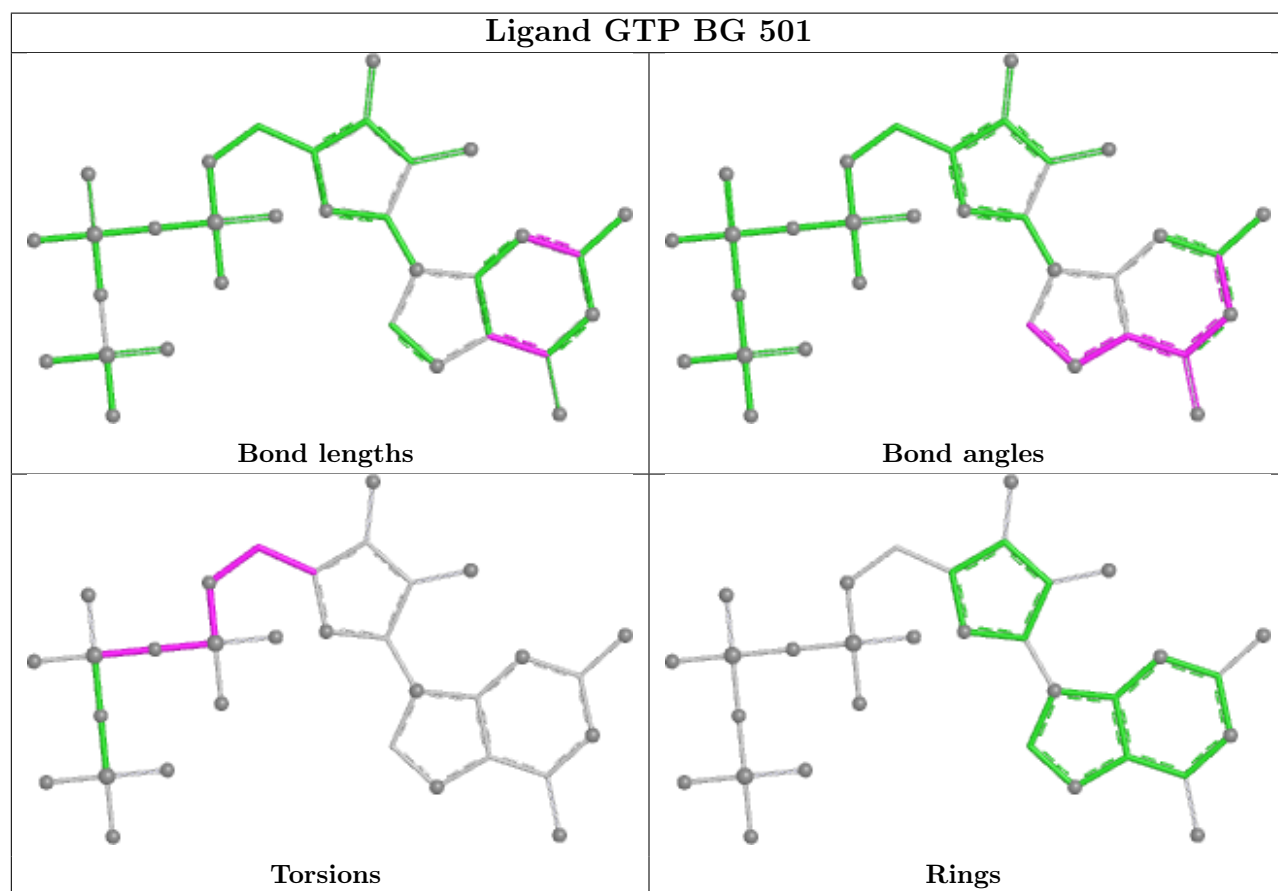
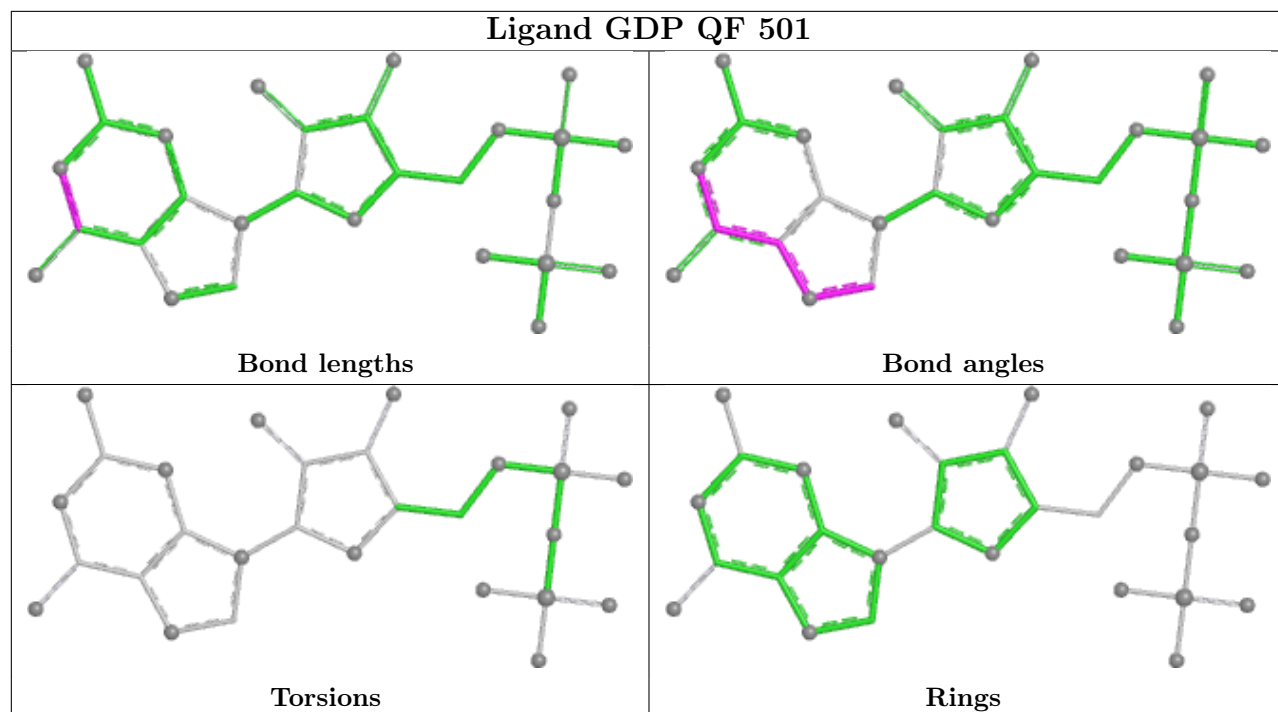
Rings

Ligand GTP SE 501

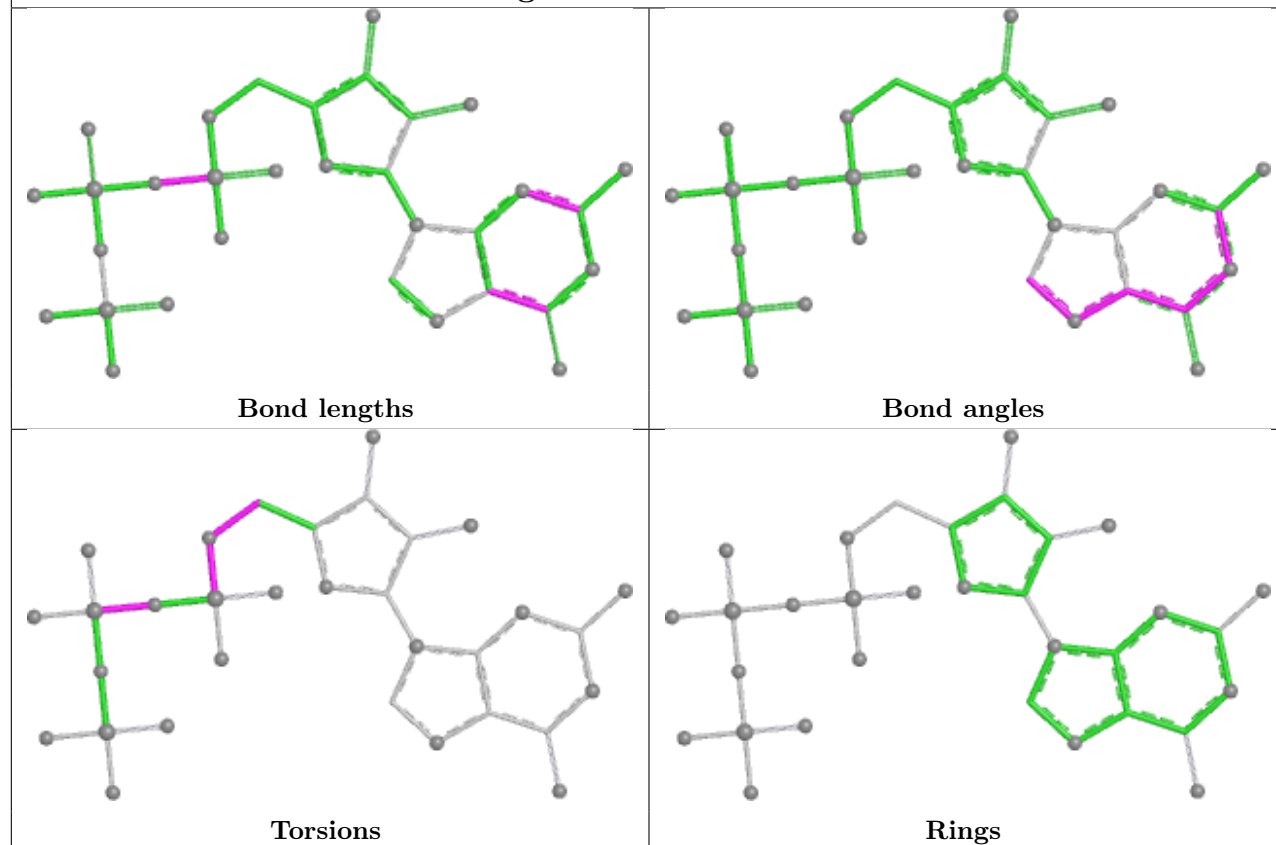


Ligand GTP WC 501

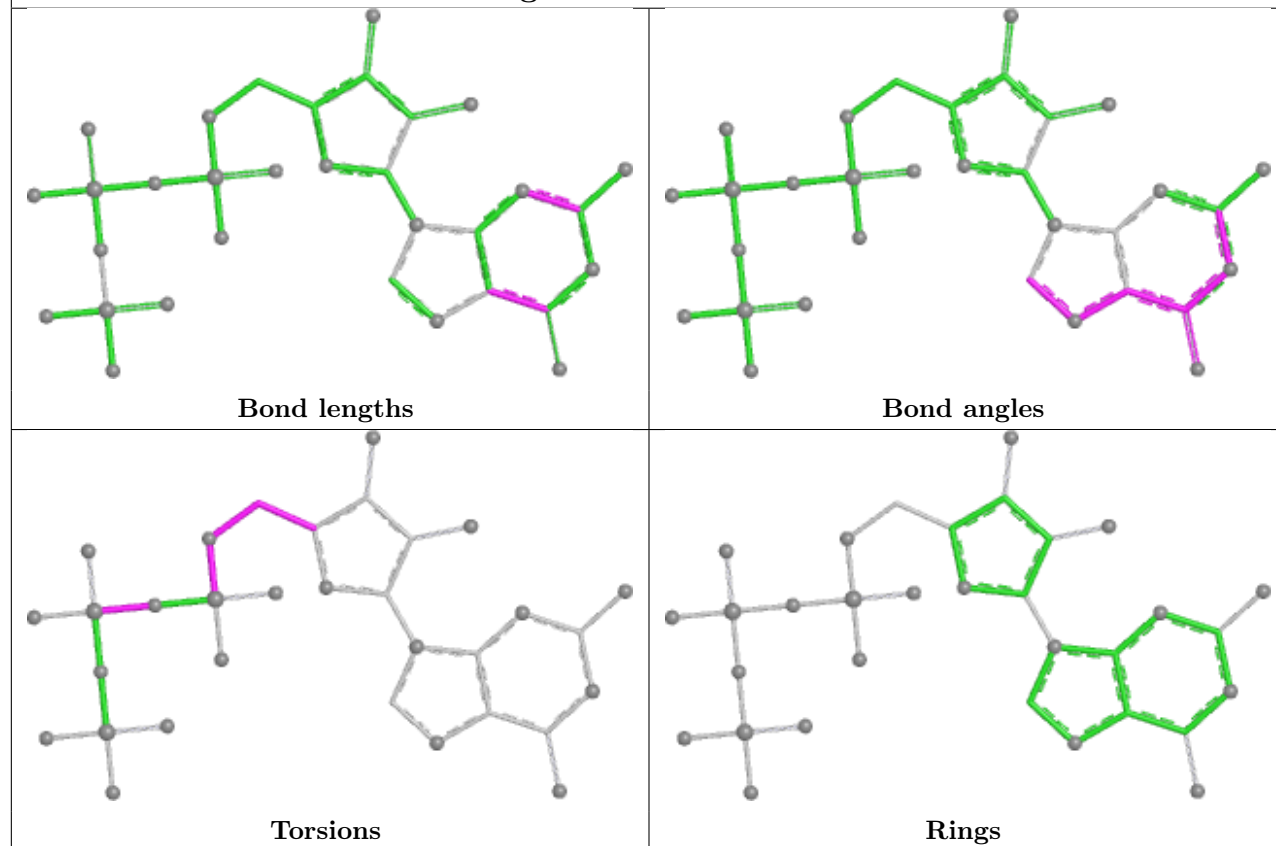




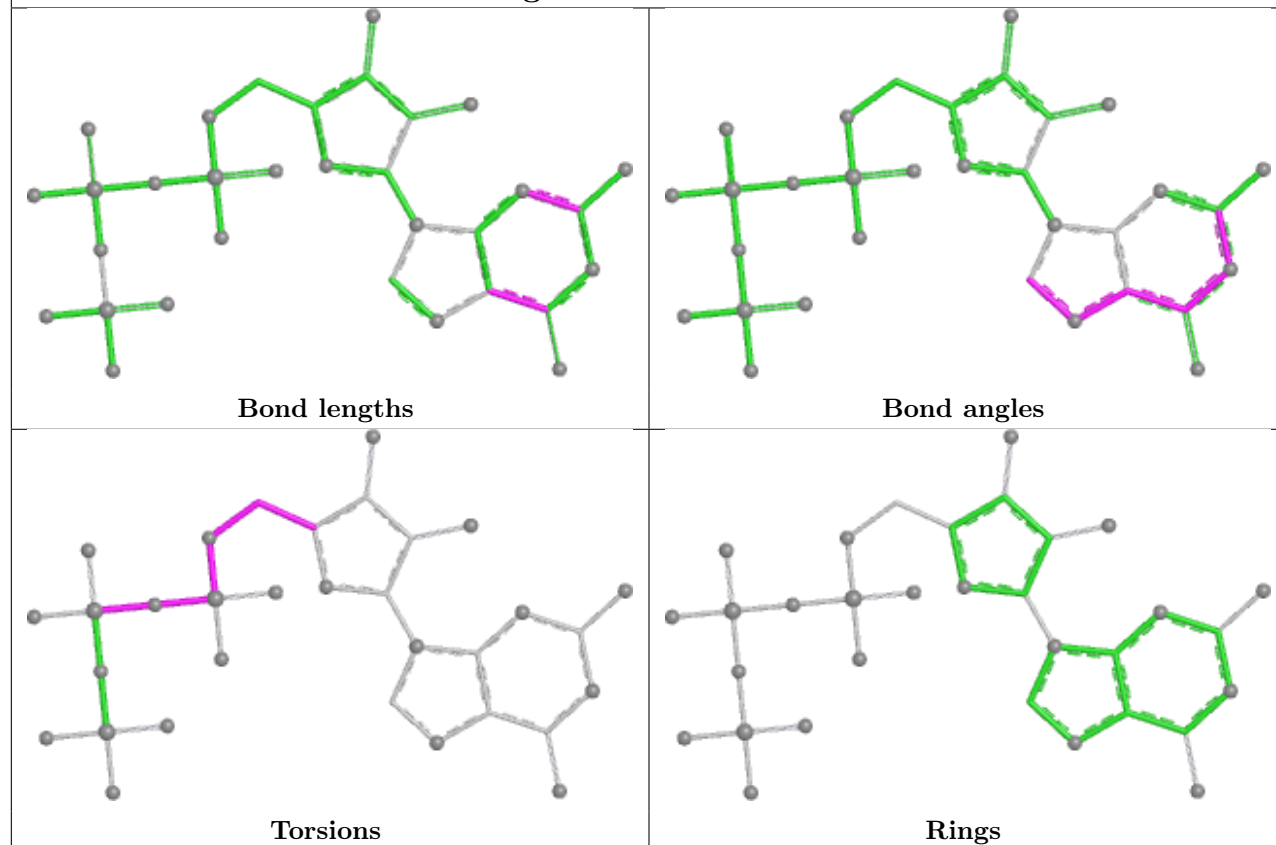
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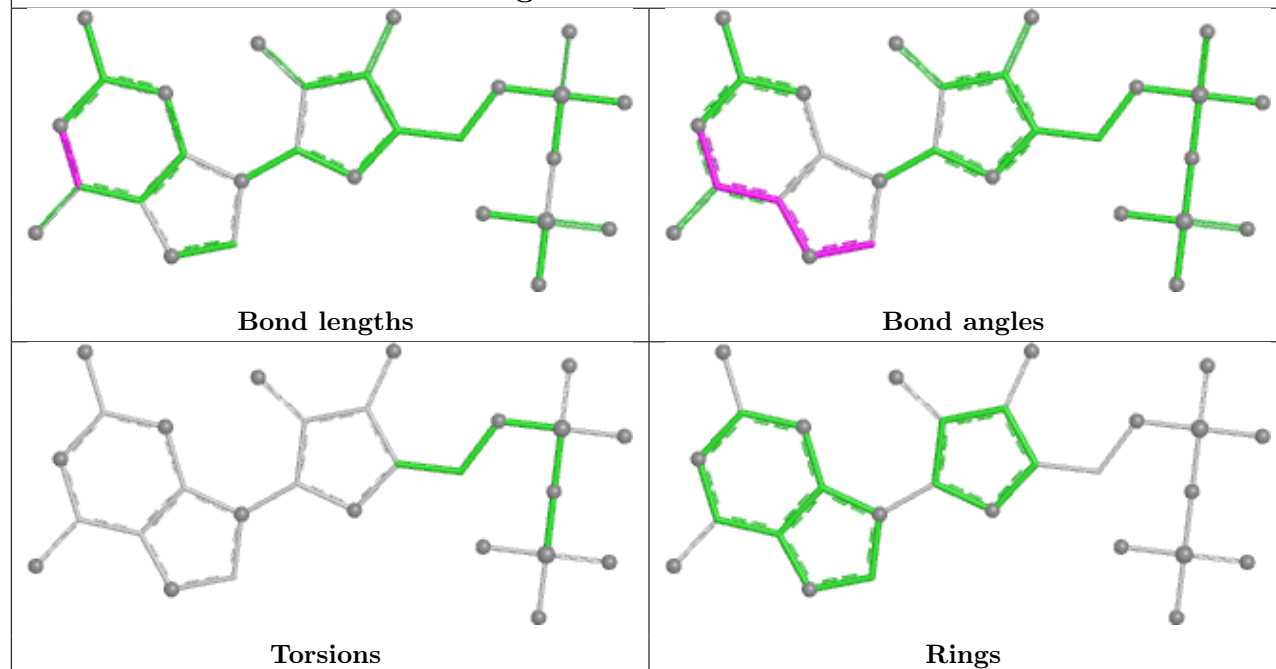
Ligand GTP MI 501



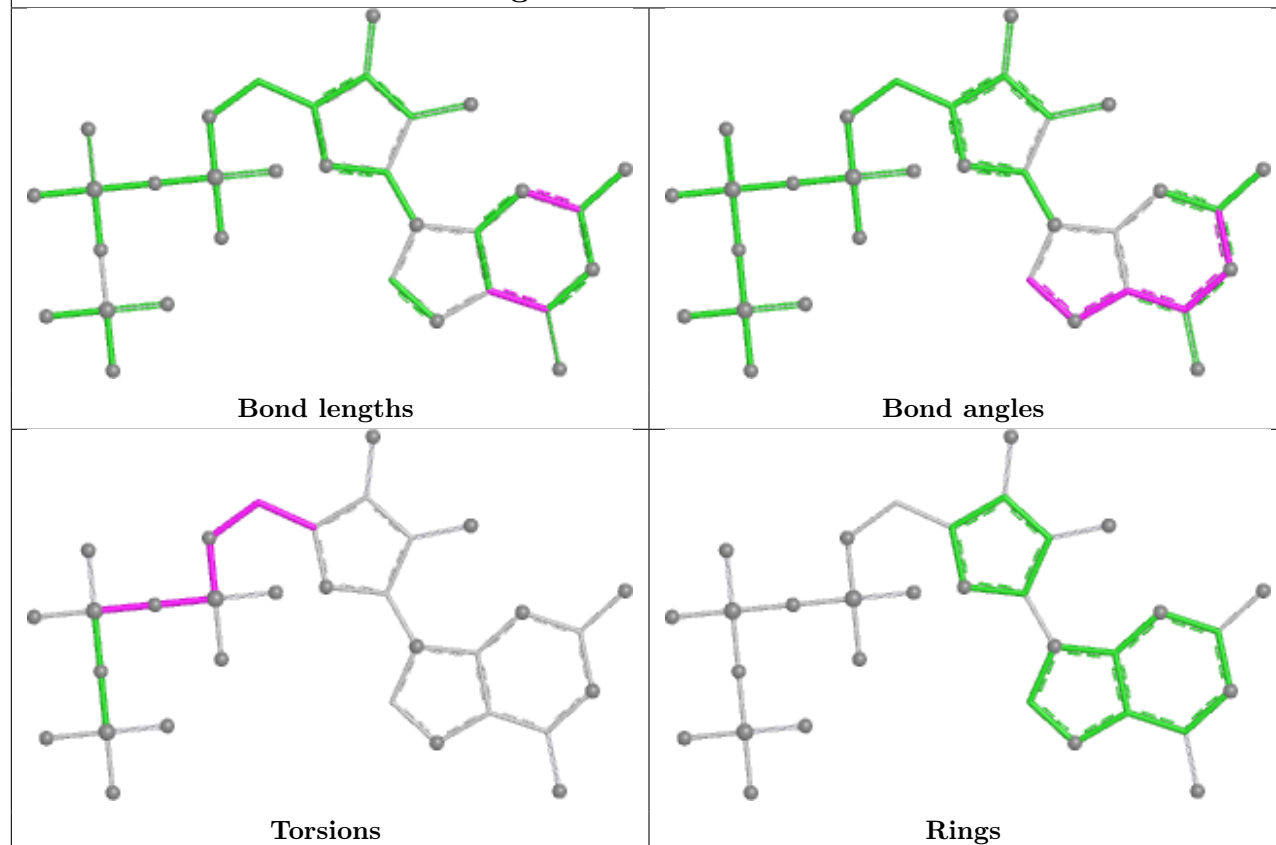
Ligand GTP GI 501



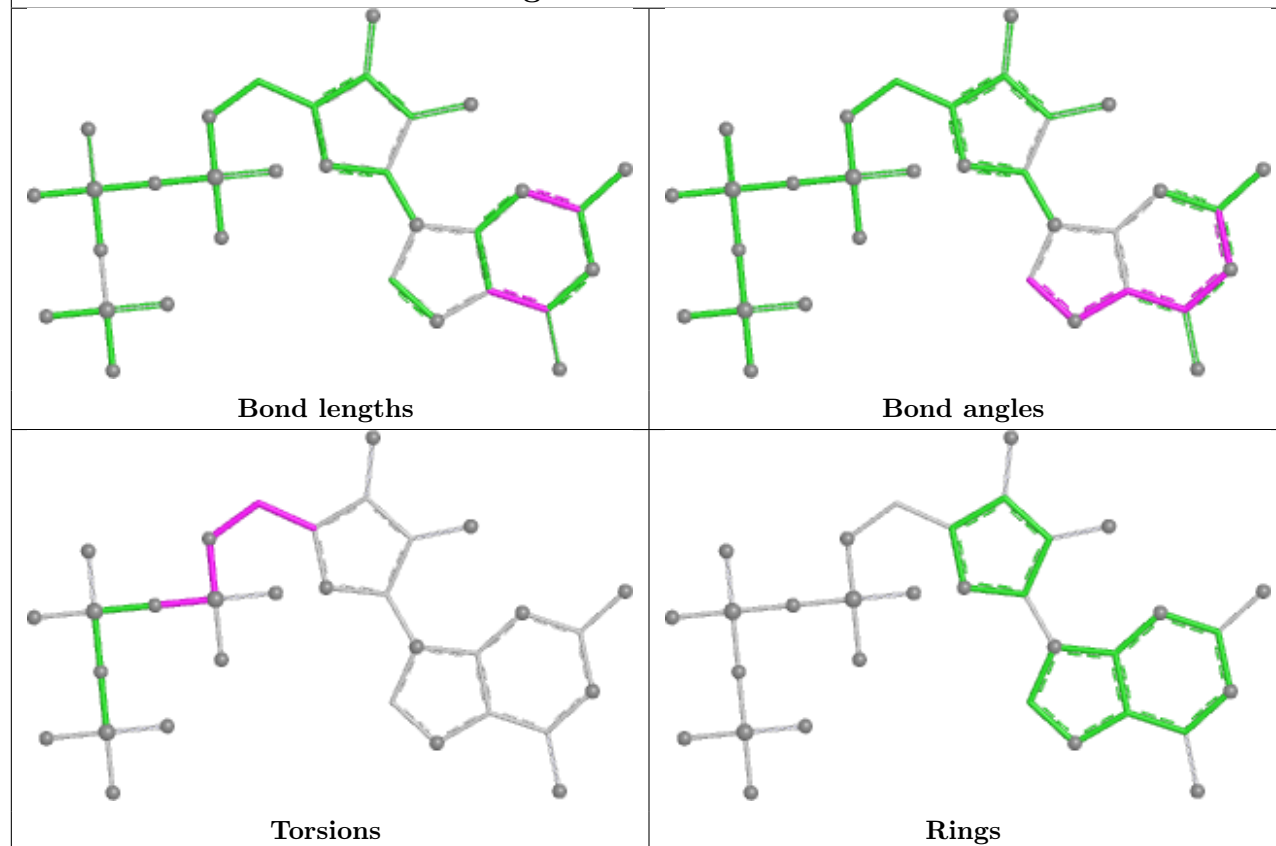
Ligand GDP PH 501



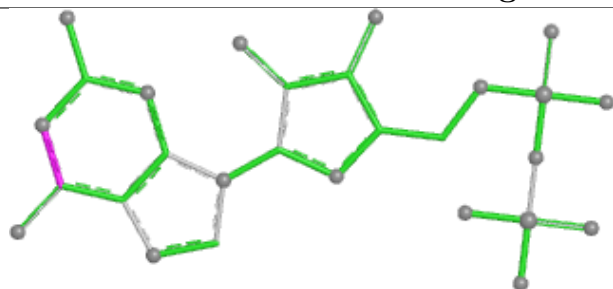
Ligand GTP WK 501



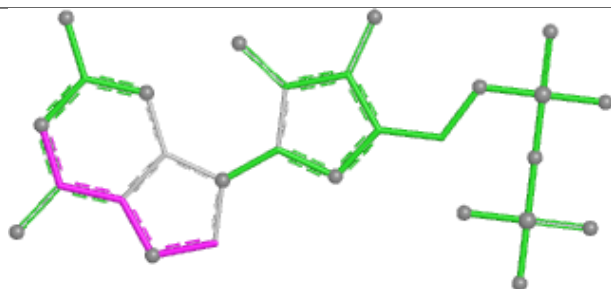
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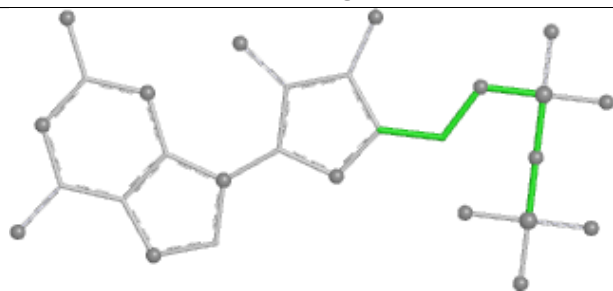
Ligand GDP BB 501



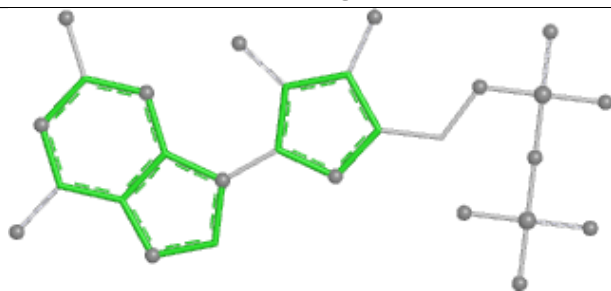
Bond lengths



Bond angles

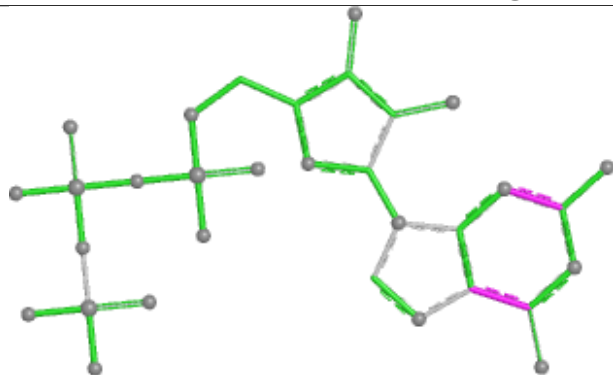


Torsions

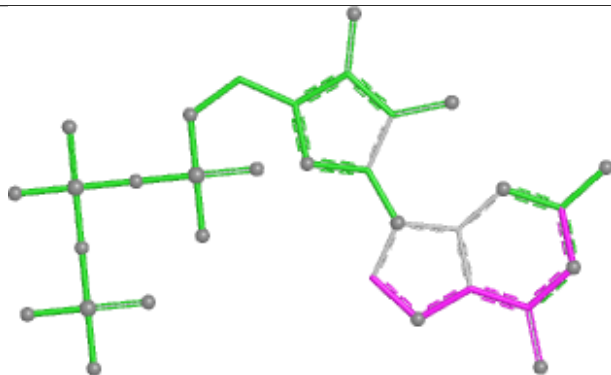


Rings

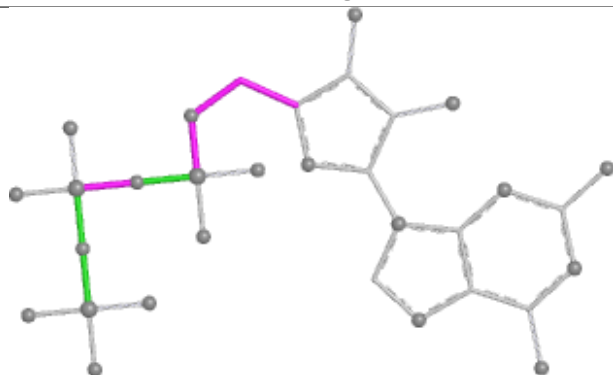
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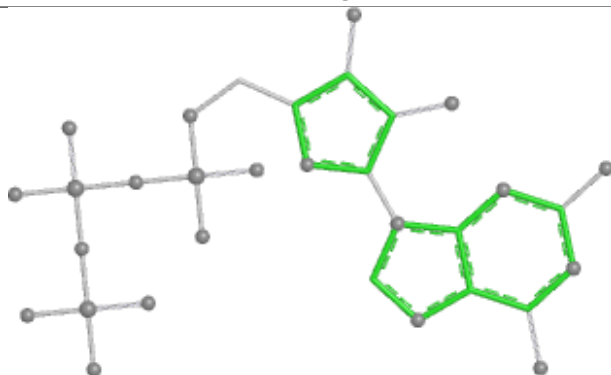
Bond lengths



Bond angles

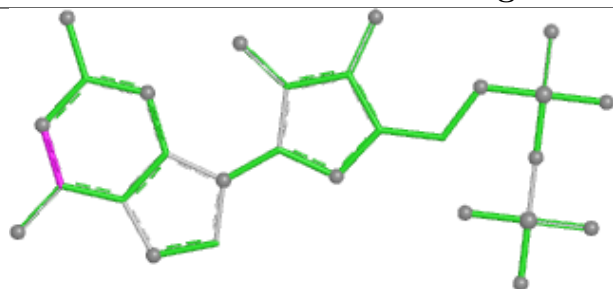


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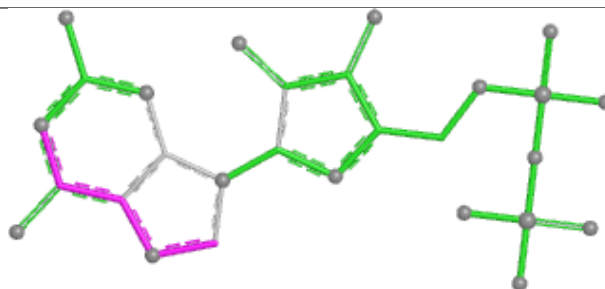


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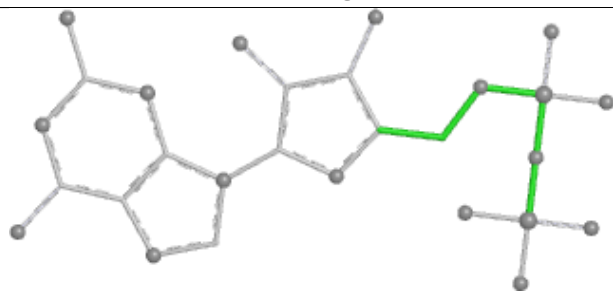
Ligand GDP GB 502



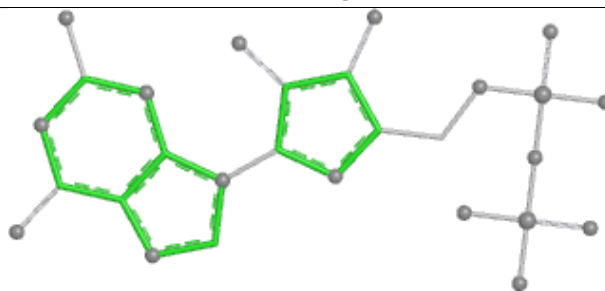
Bond lengths



Bond angles

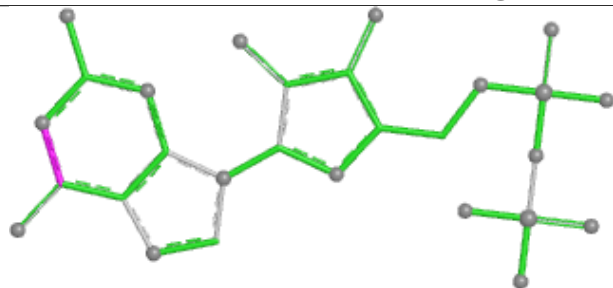


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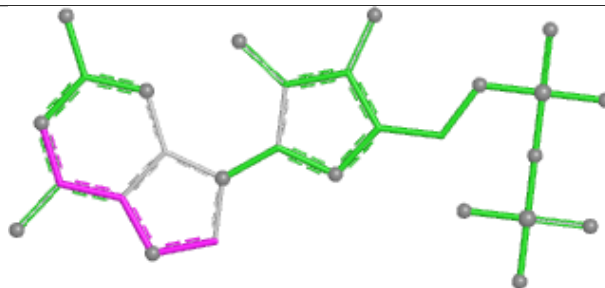


Rings

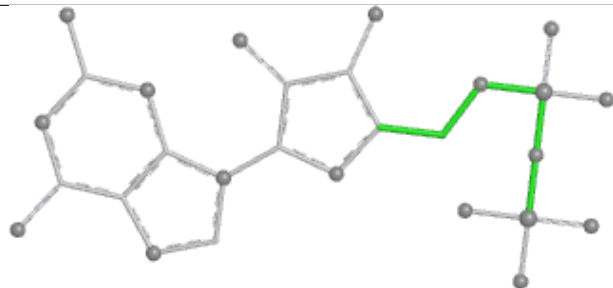
Ligand GDP WD 501



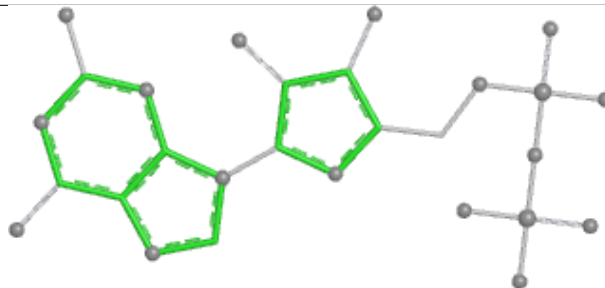
Bond lengths



Bond angles

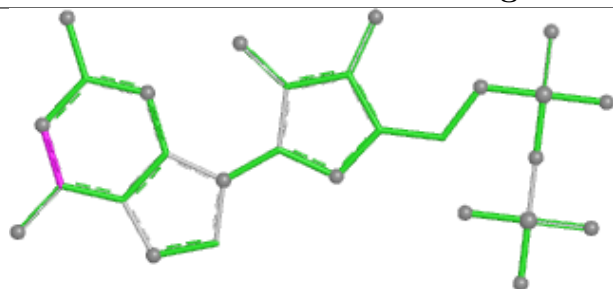


Torsions

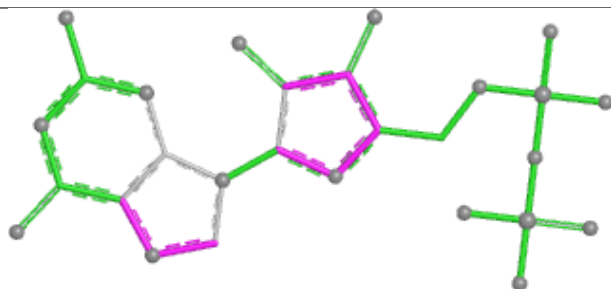


Rings

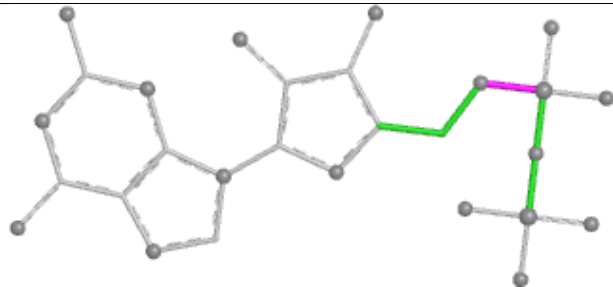
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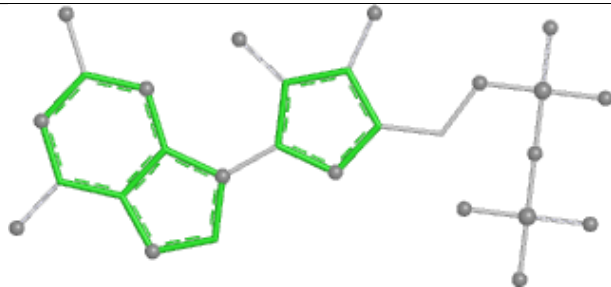
Bond lengths



Bond angles

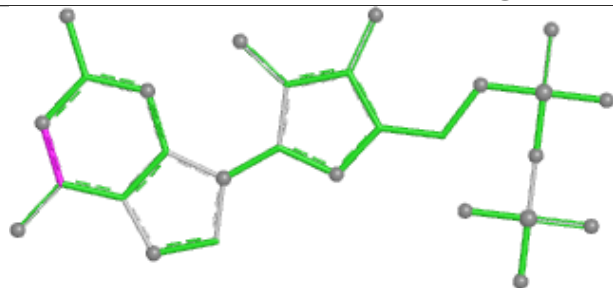


Torsions

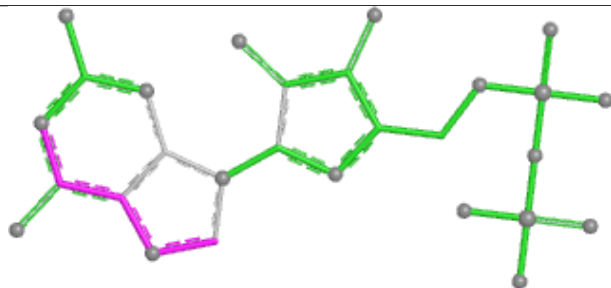


Rings

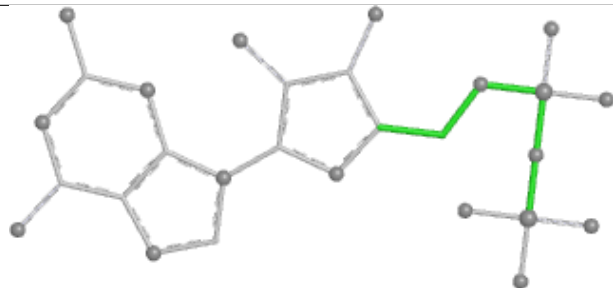
Ligand GDP HN 501



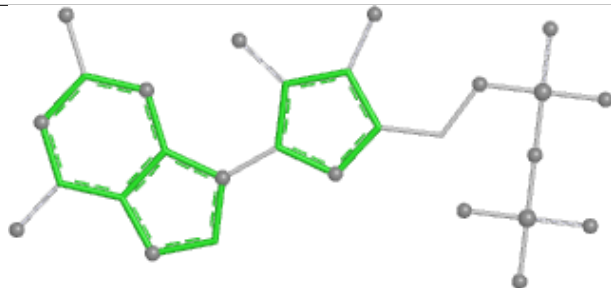
Bond lengths



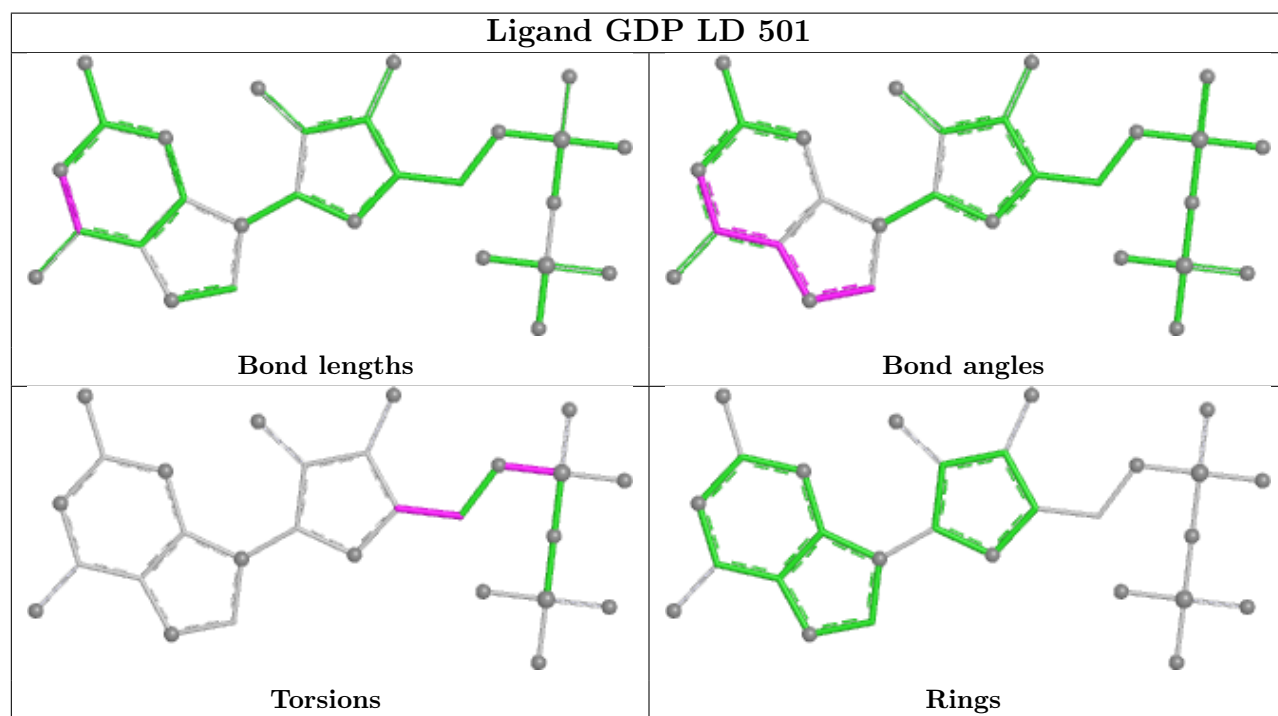
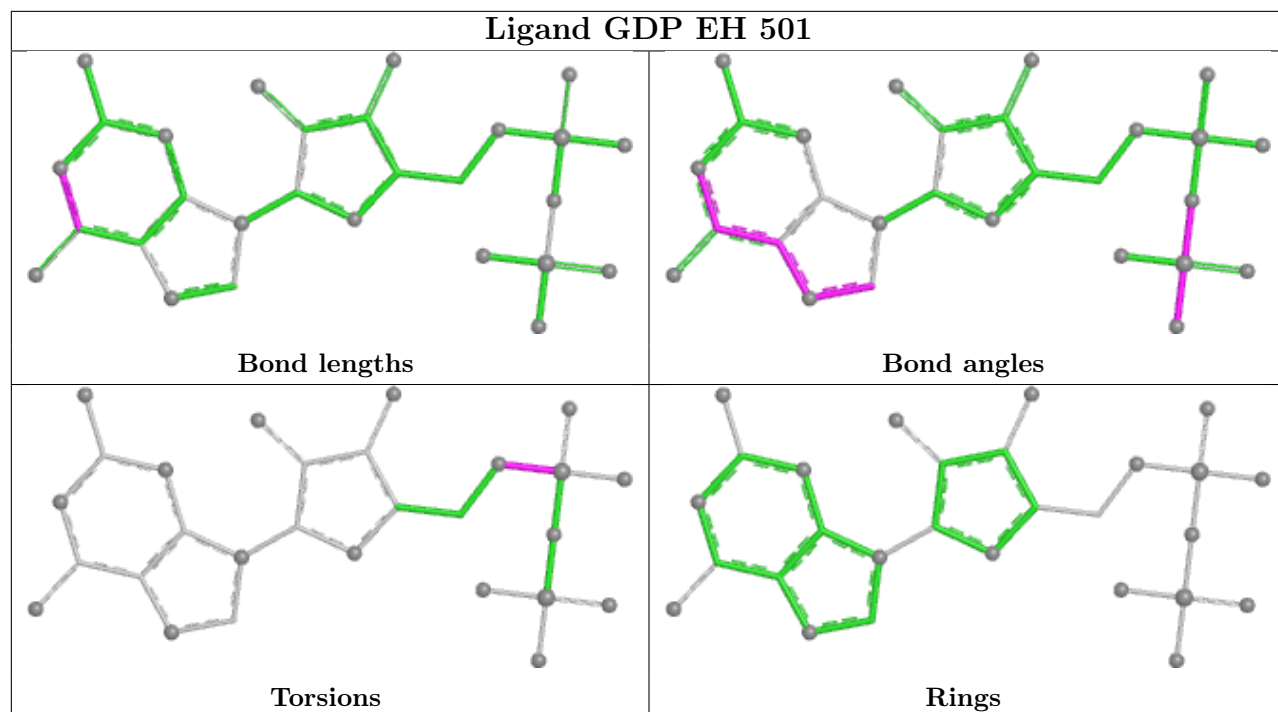
Bond angles



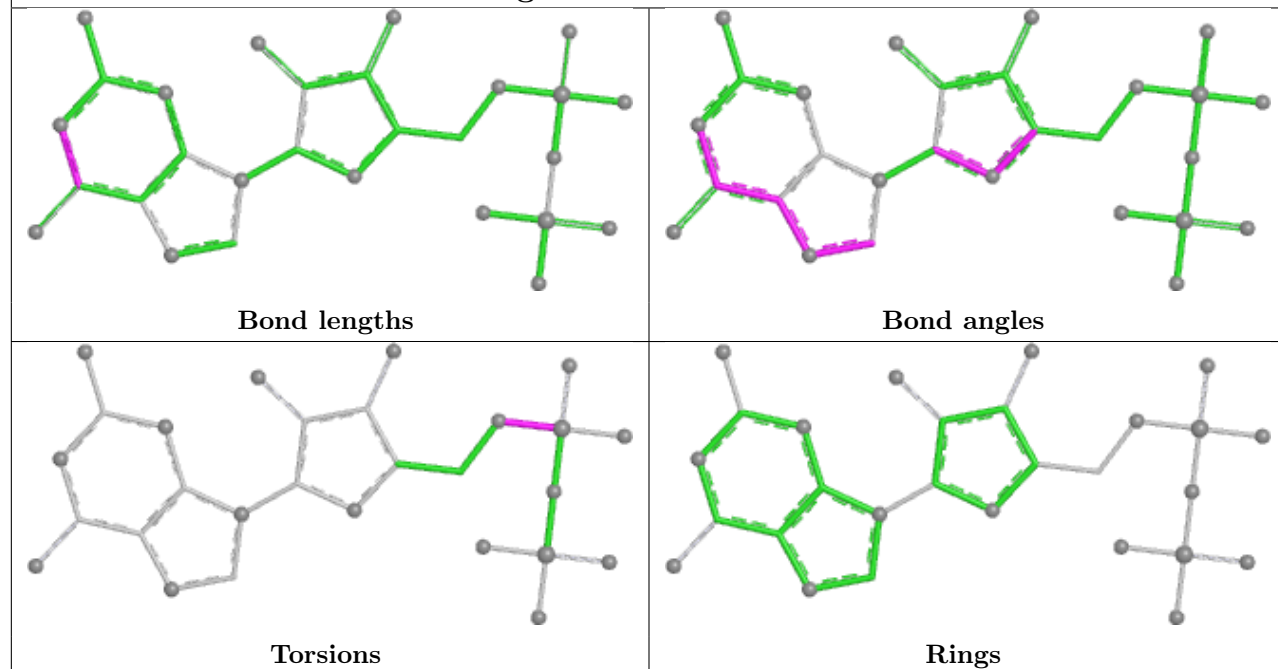
Torsions



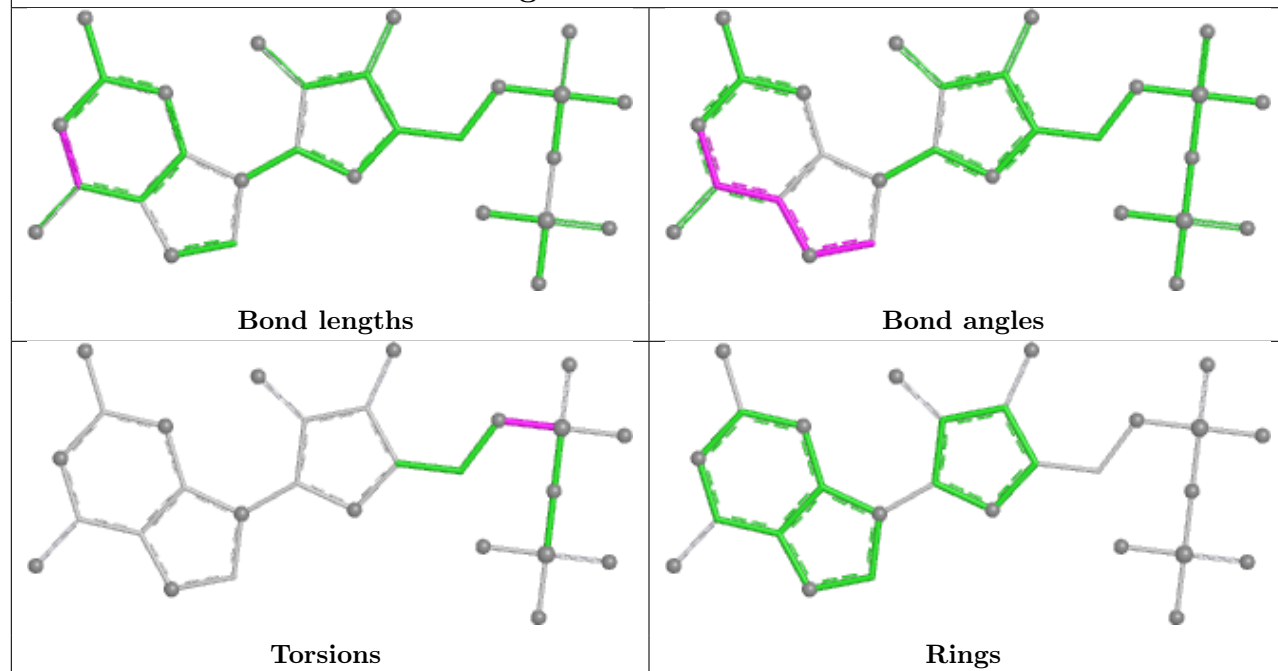
Rings



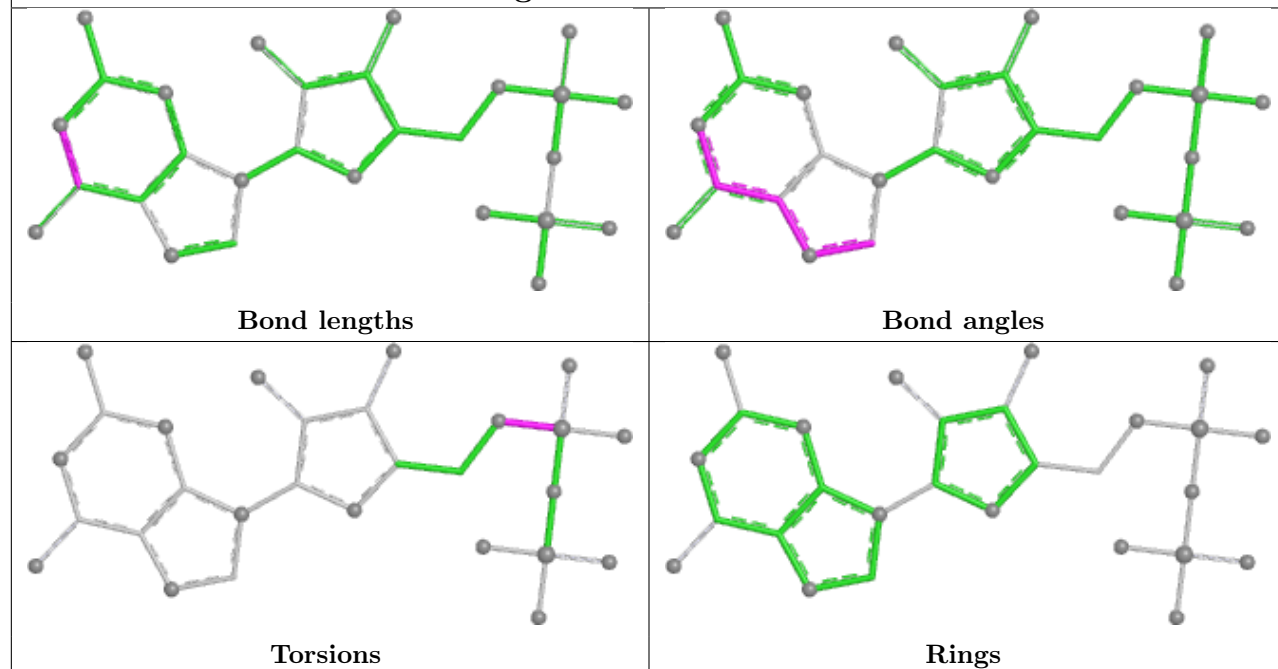
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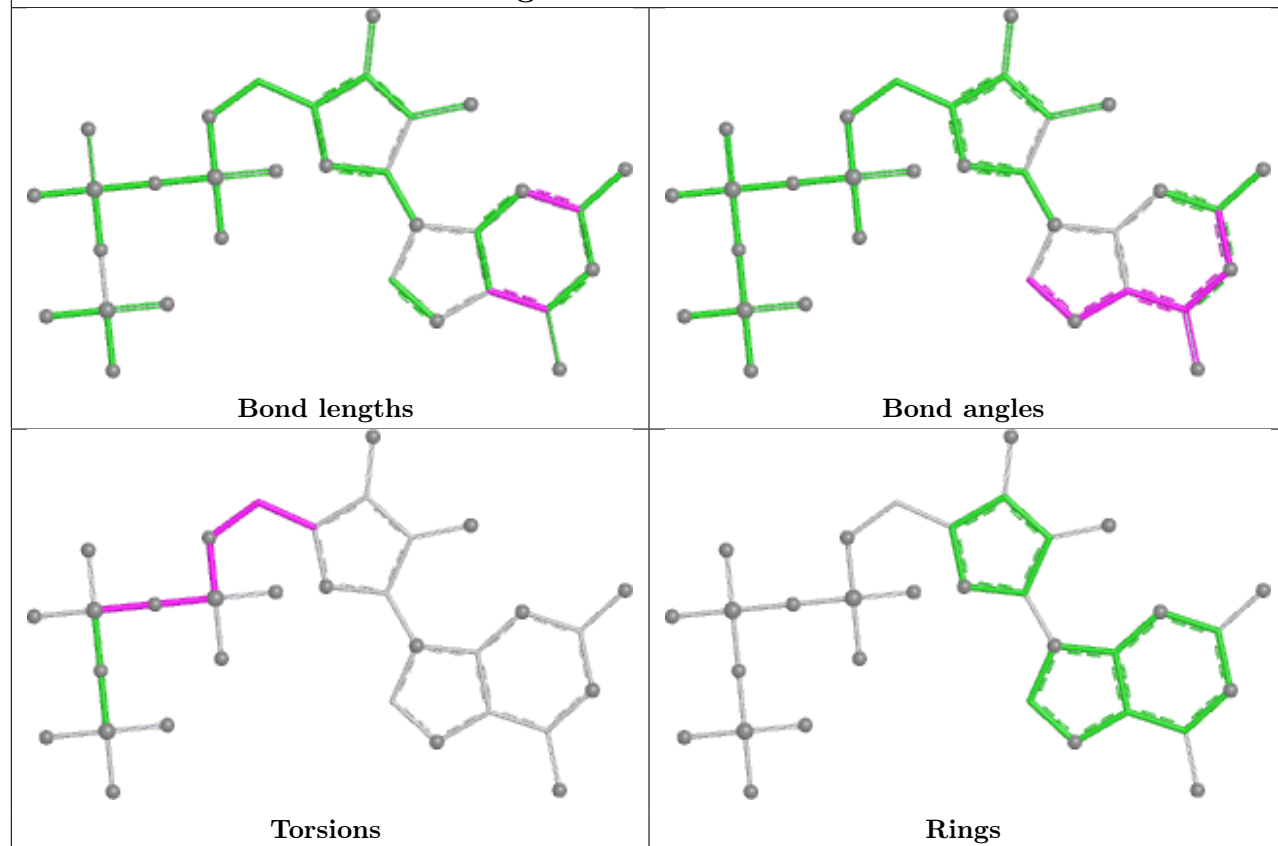
Ligand GDP EF 501



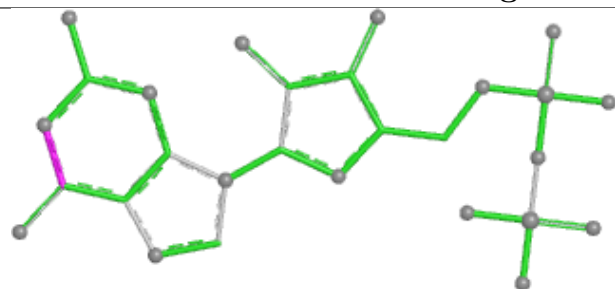
Ligand GDP AN 501



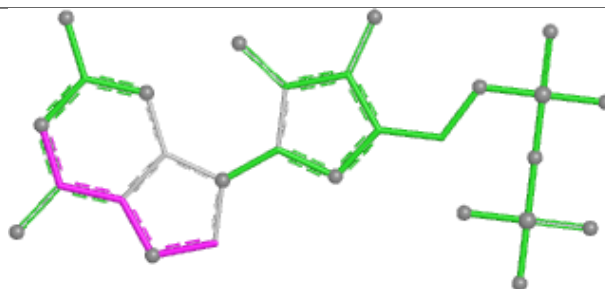
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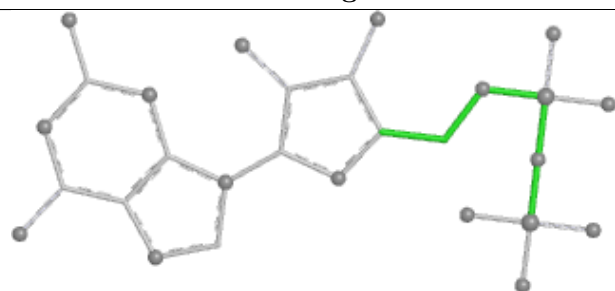
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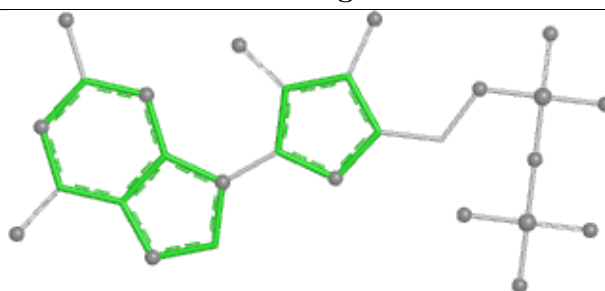
Bond lengths



Bond angles

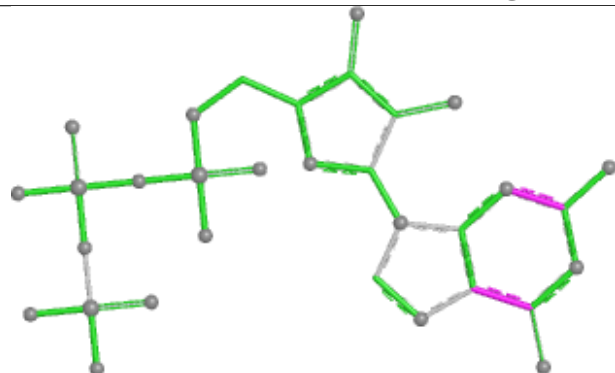


Torsions

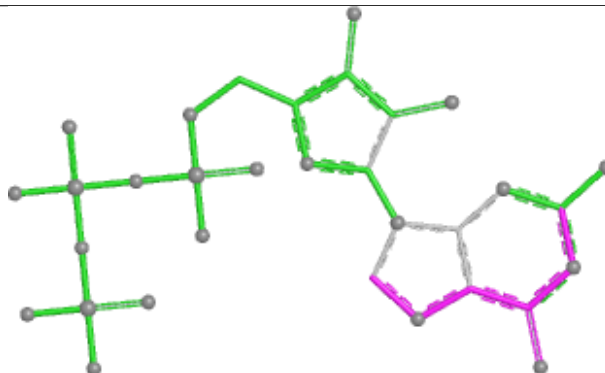


Rings

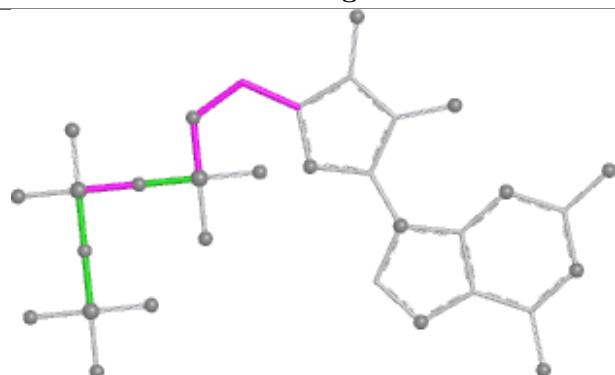
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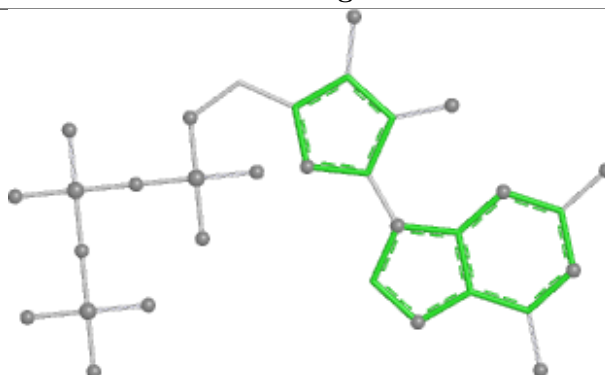
Bond lengths



Bond angles

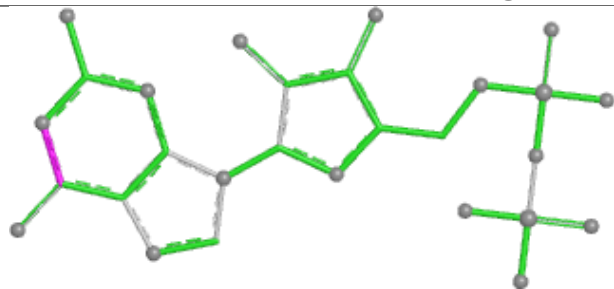


Torsions

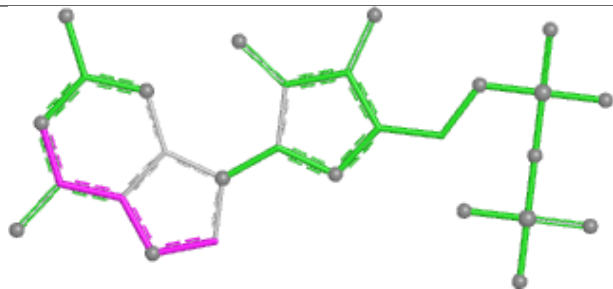


Rings

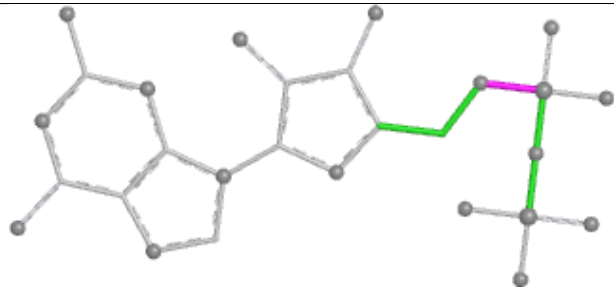
Ligand GDP AF 501



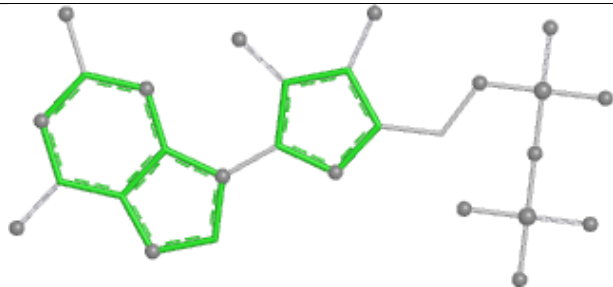
Bond lengths



Bond angles

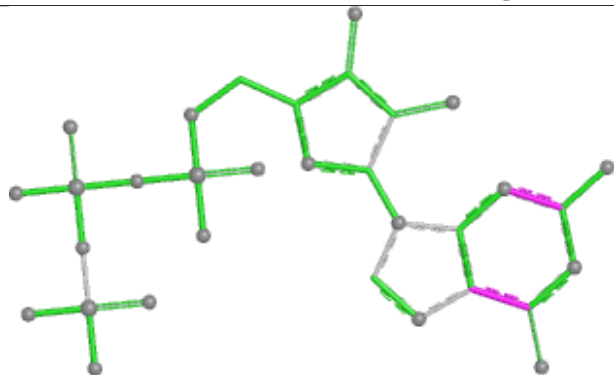


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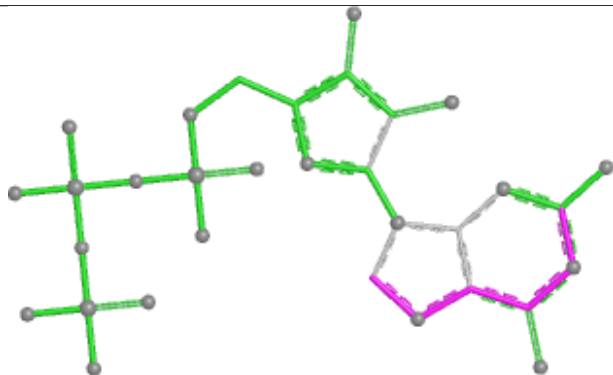


Rings

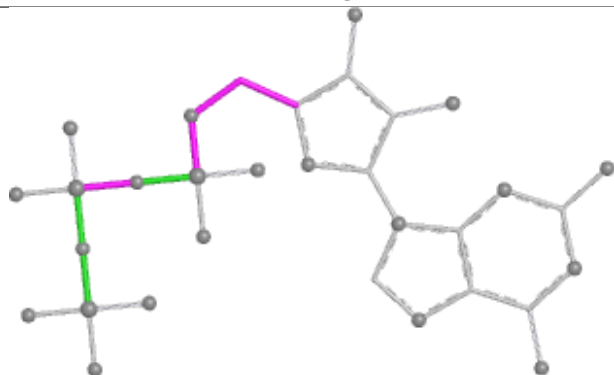
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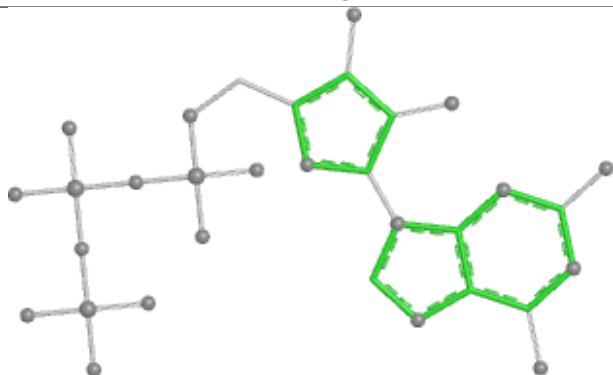
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Bond angles

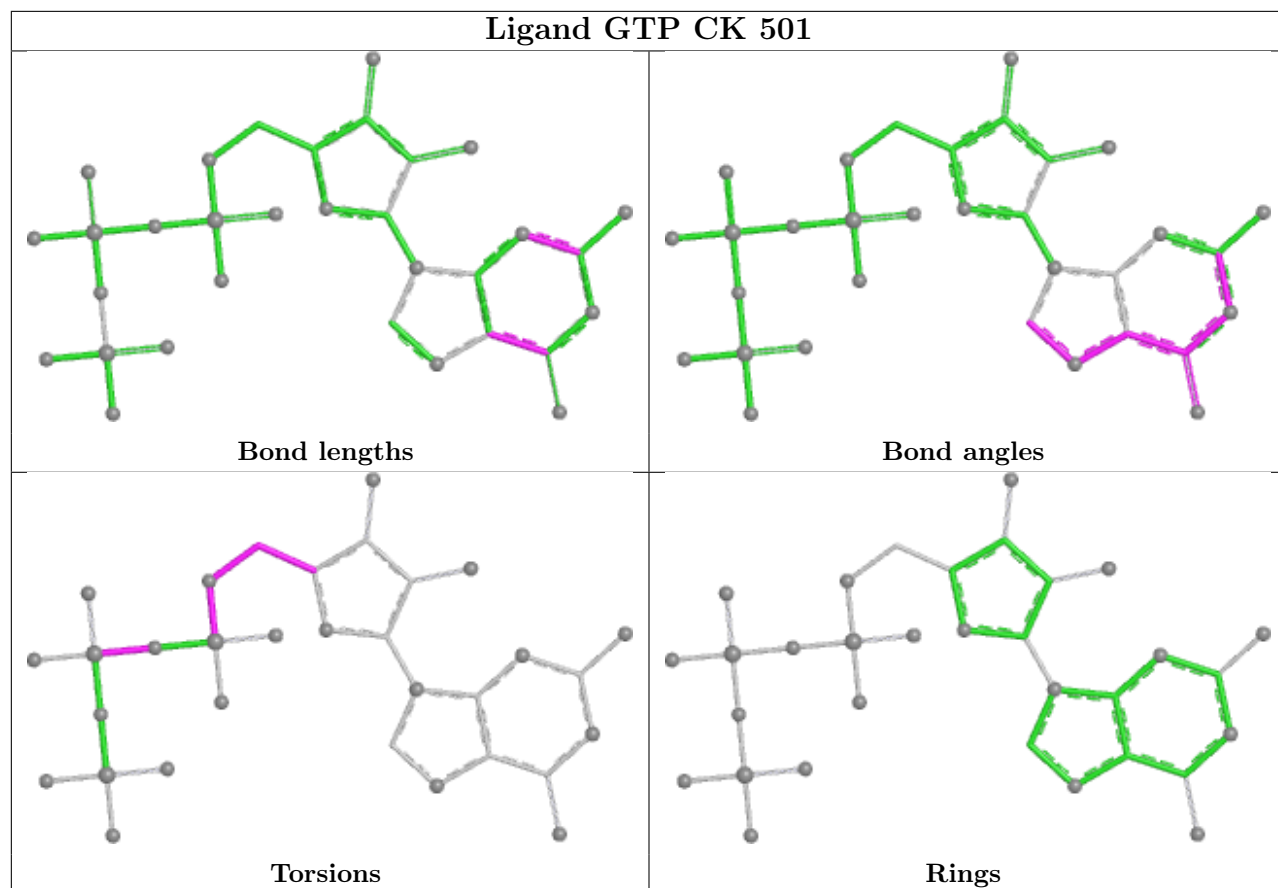


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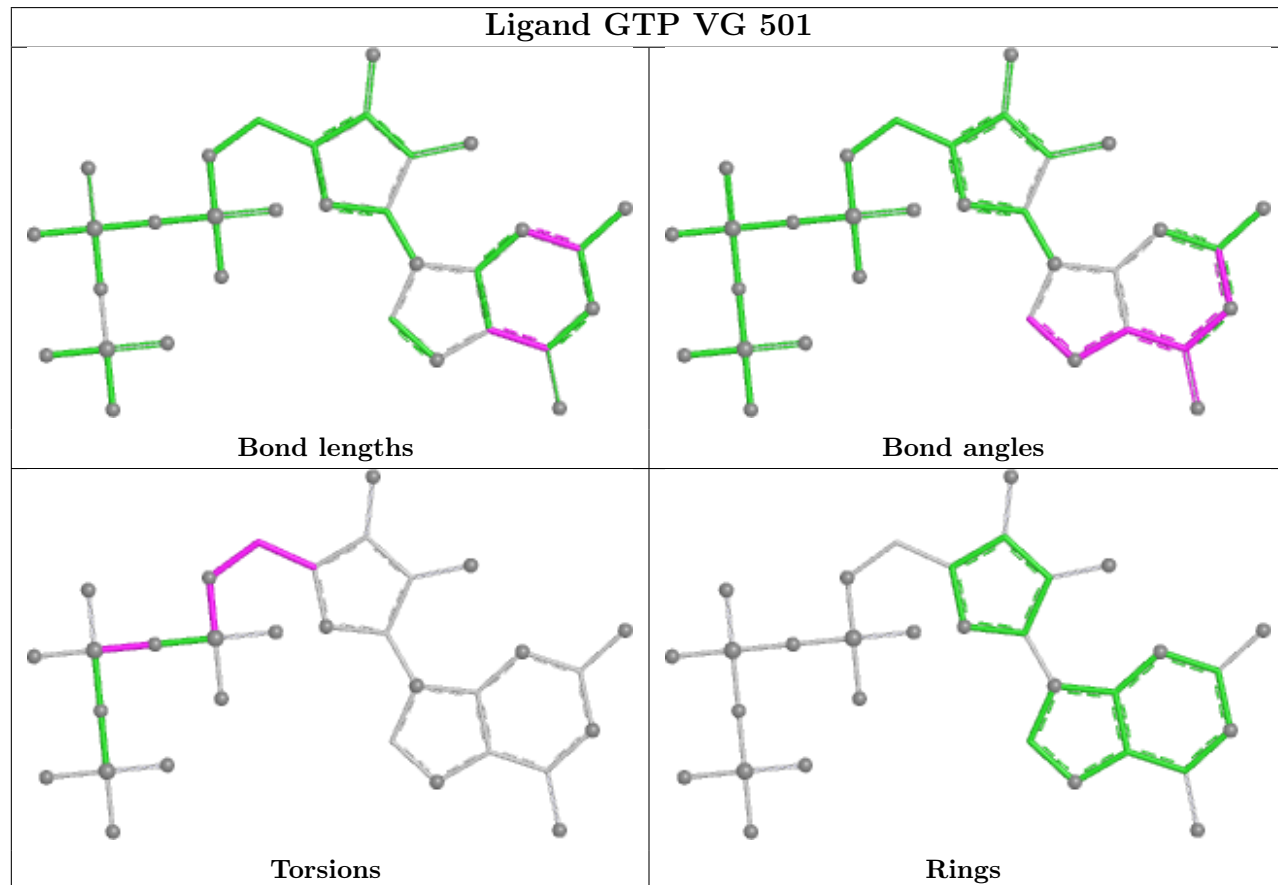


Rings

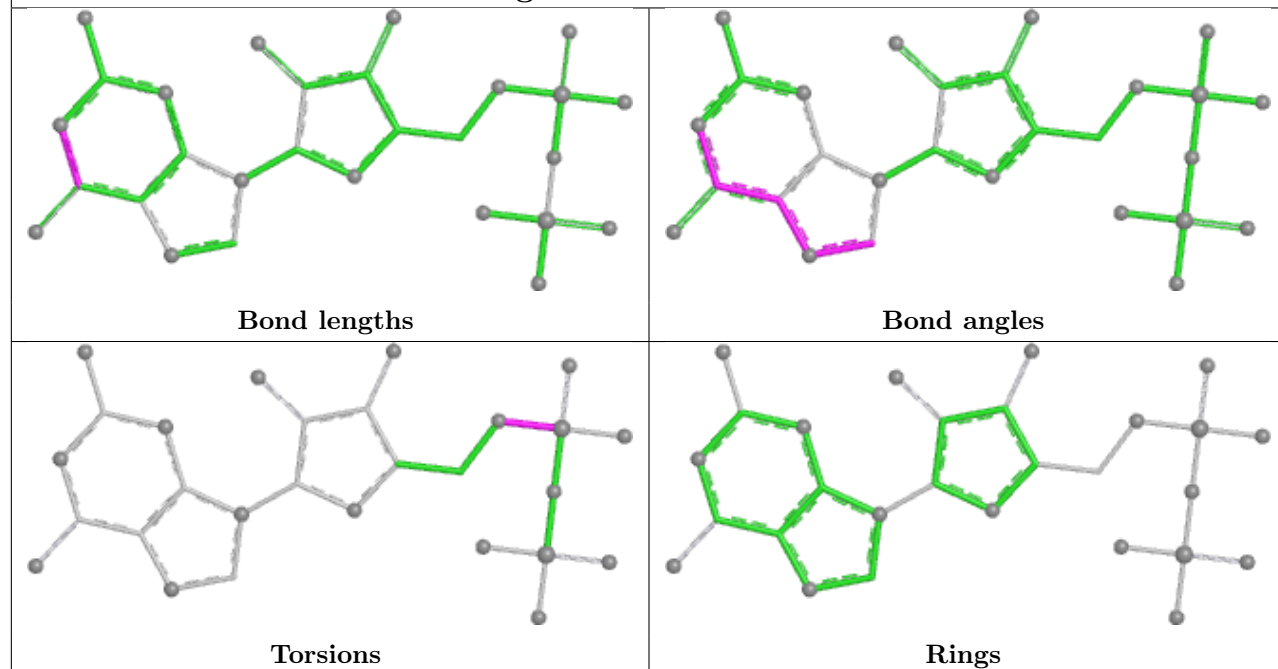
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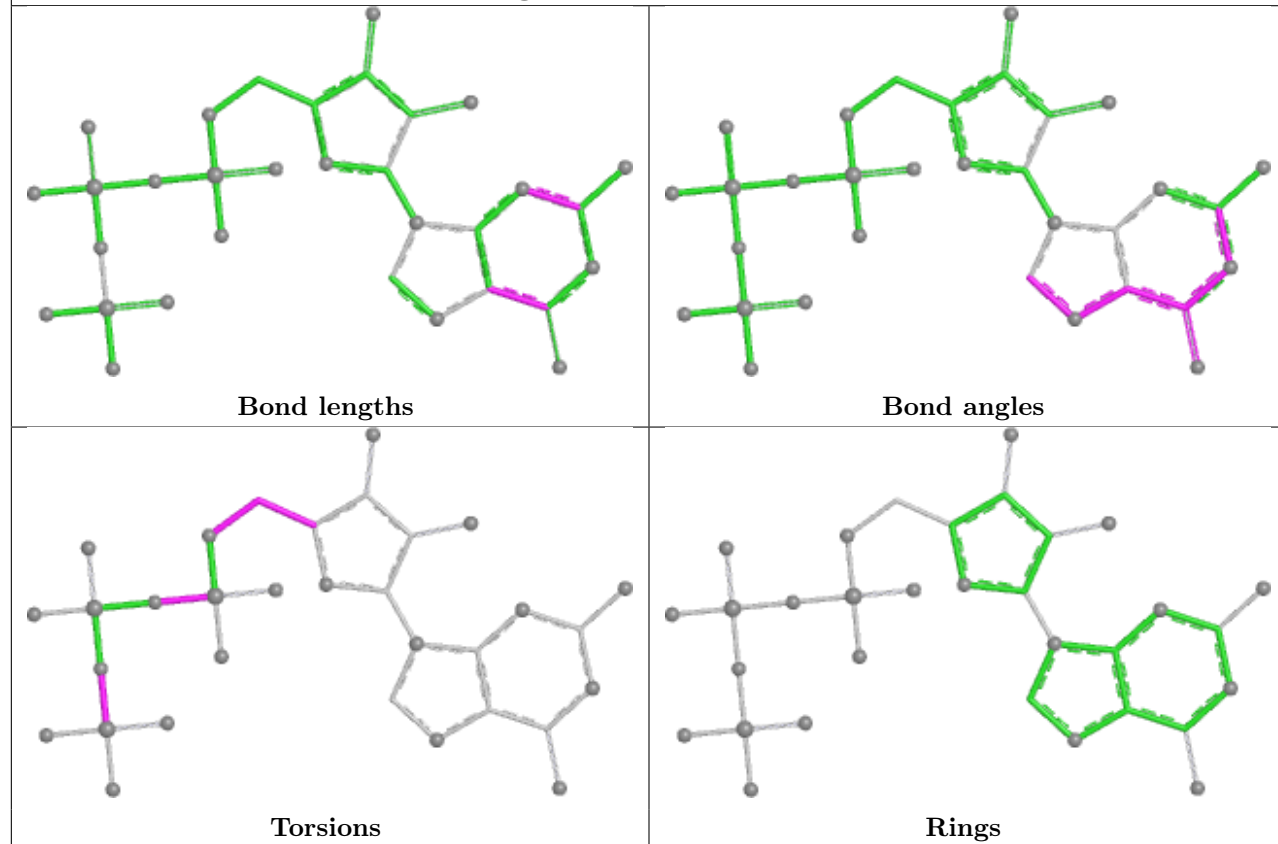
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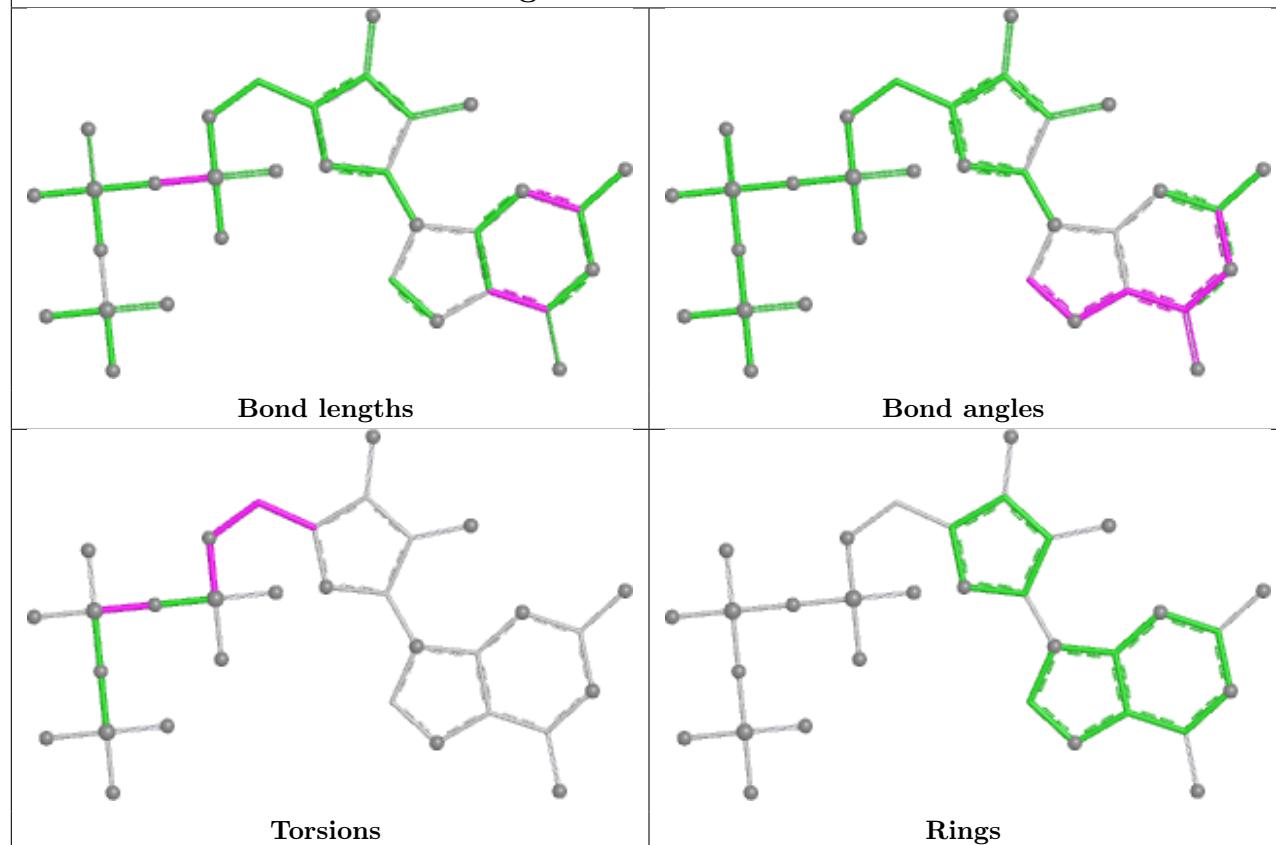
Ligand GDP UB 501



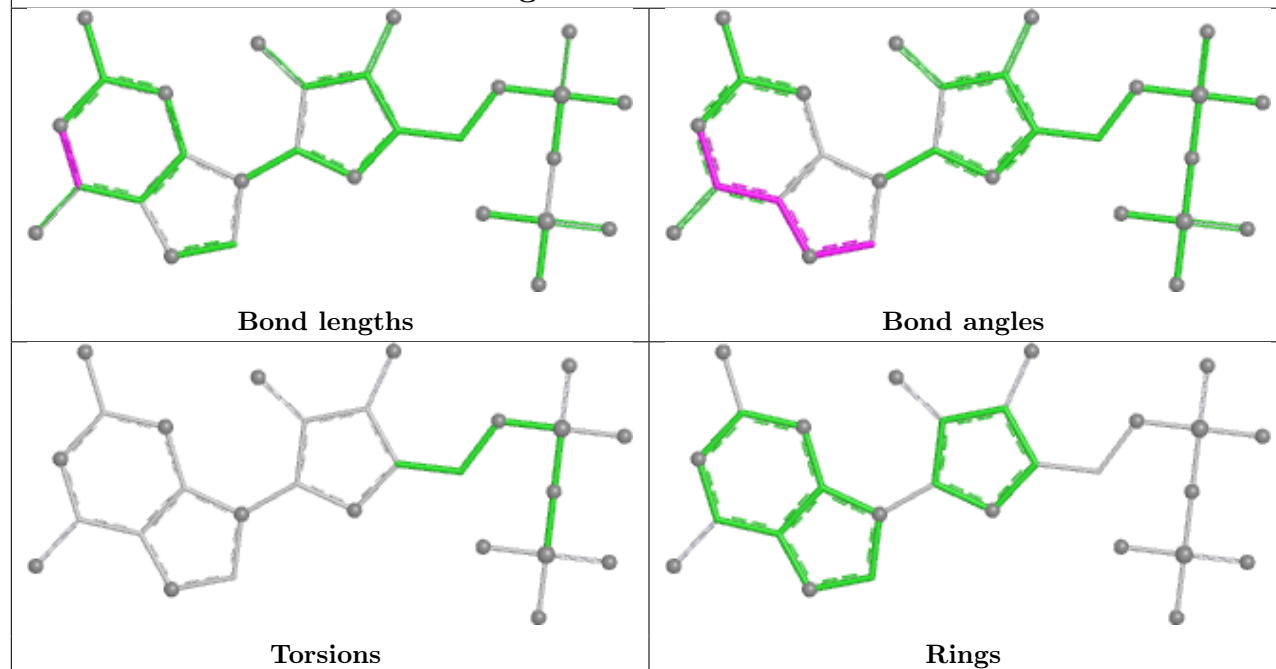
Ligand GTP NG 501



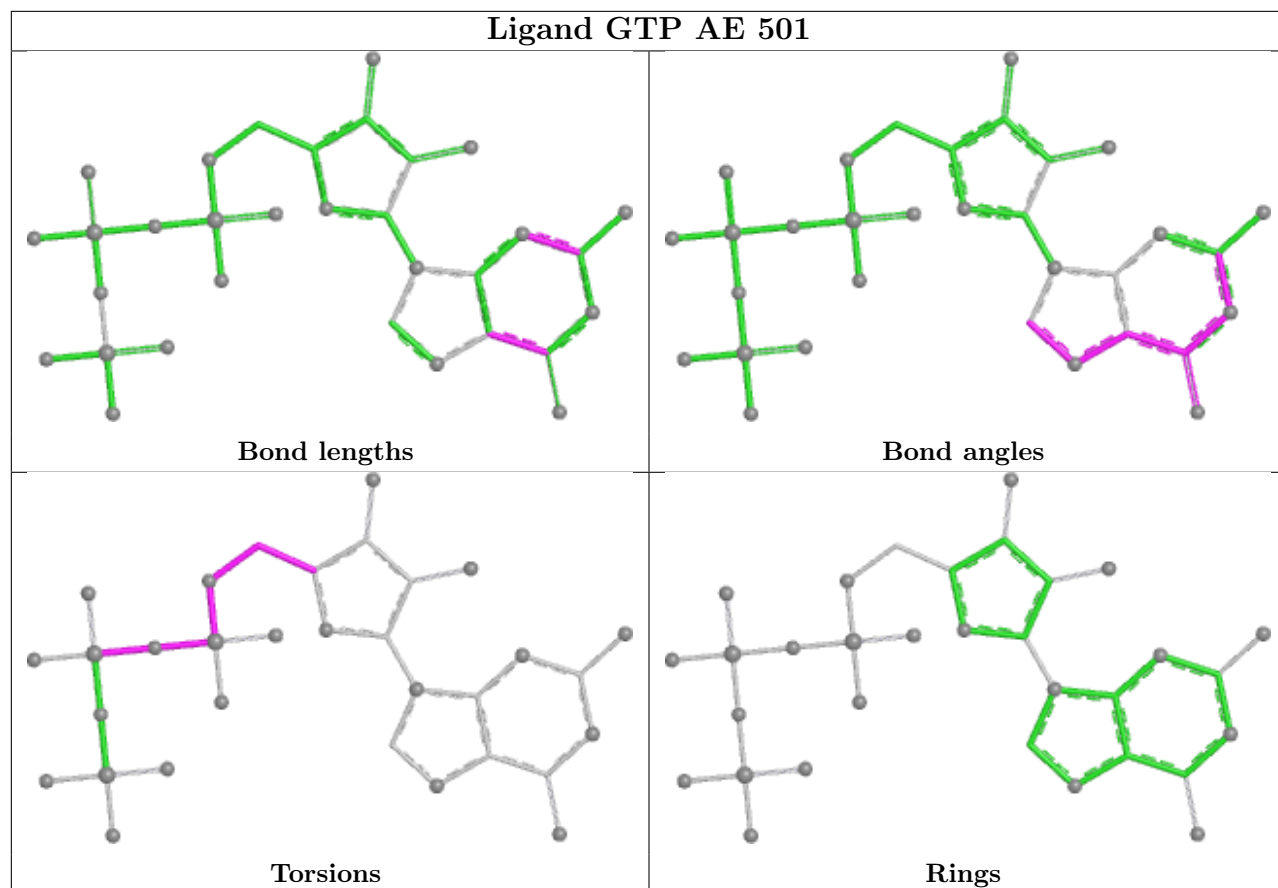
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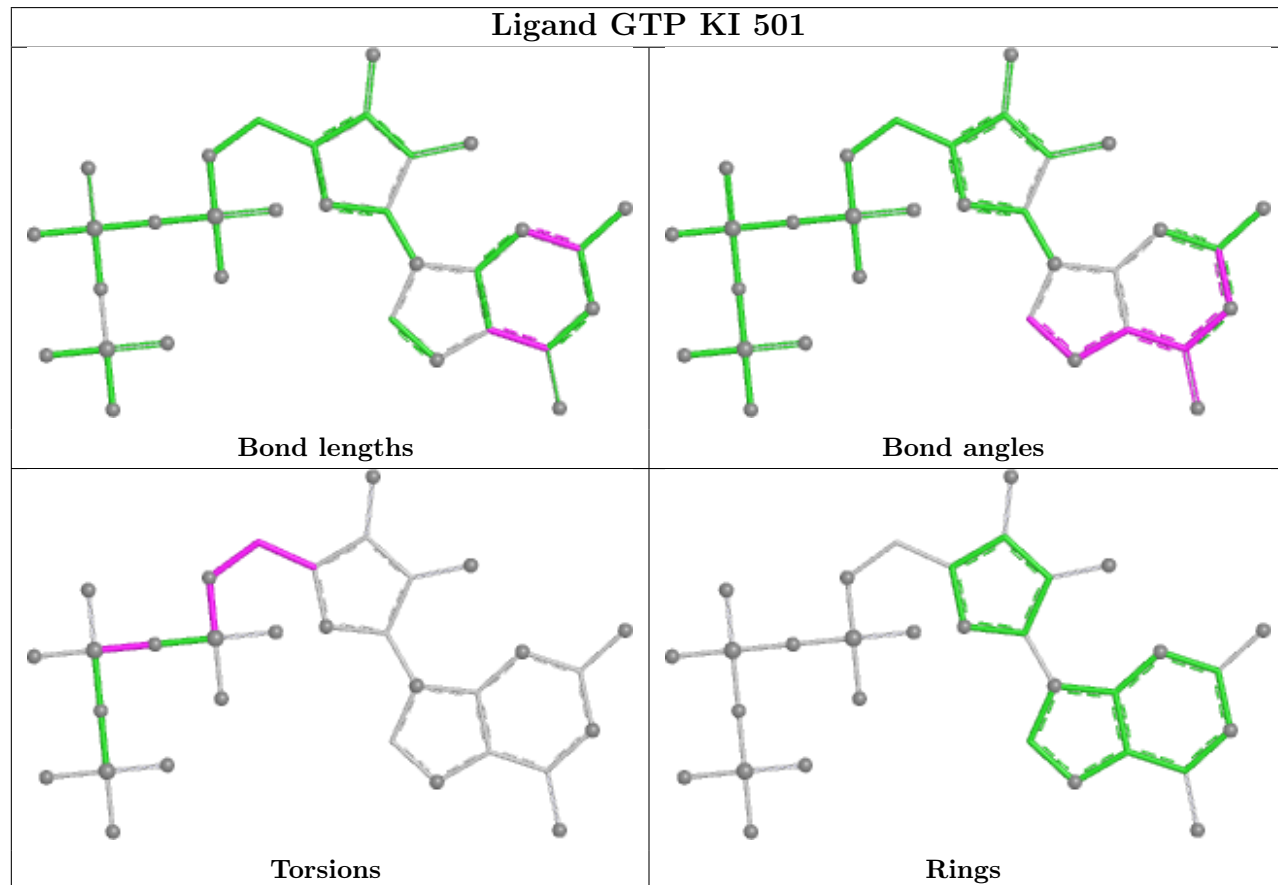
Ligand GDP KJ 501



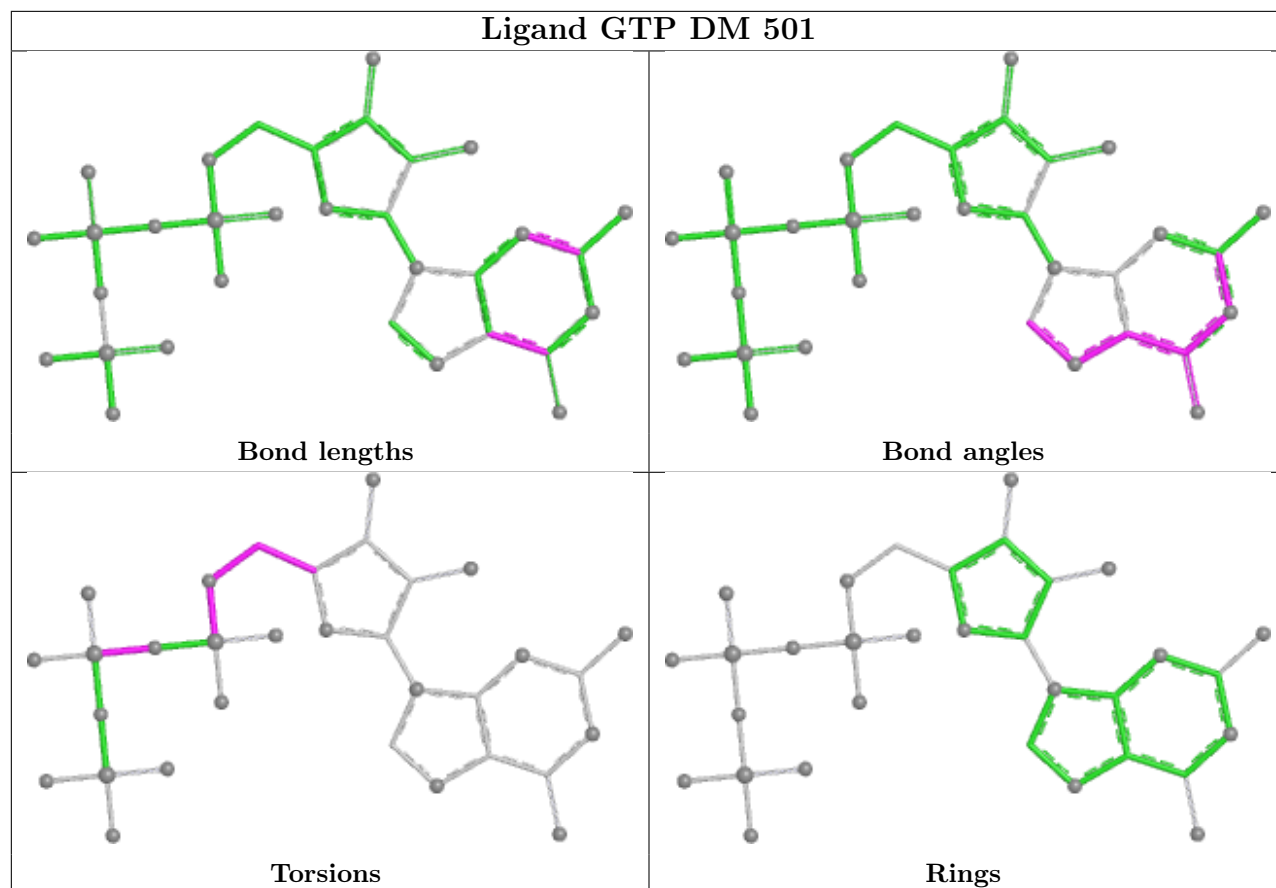
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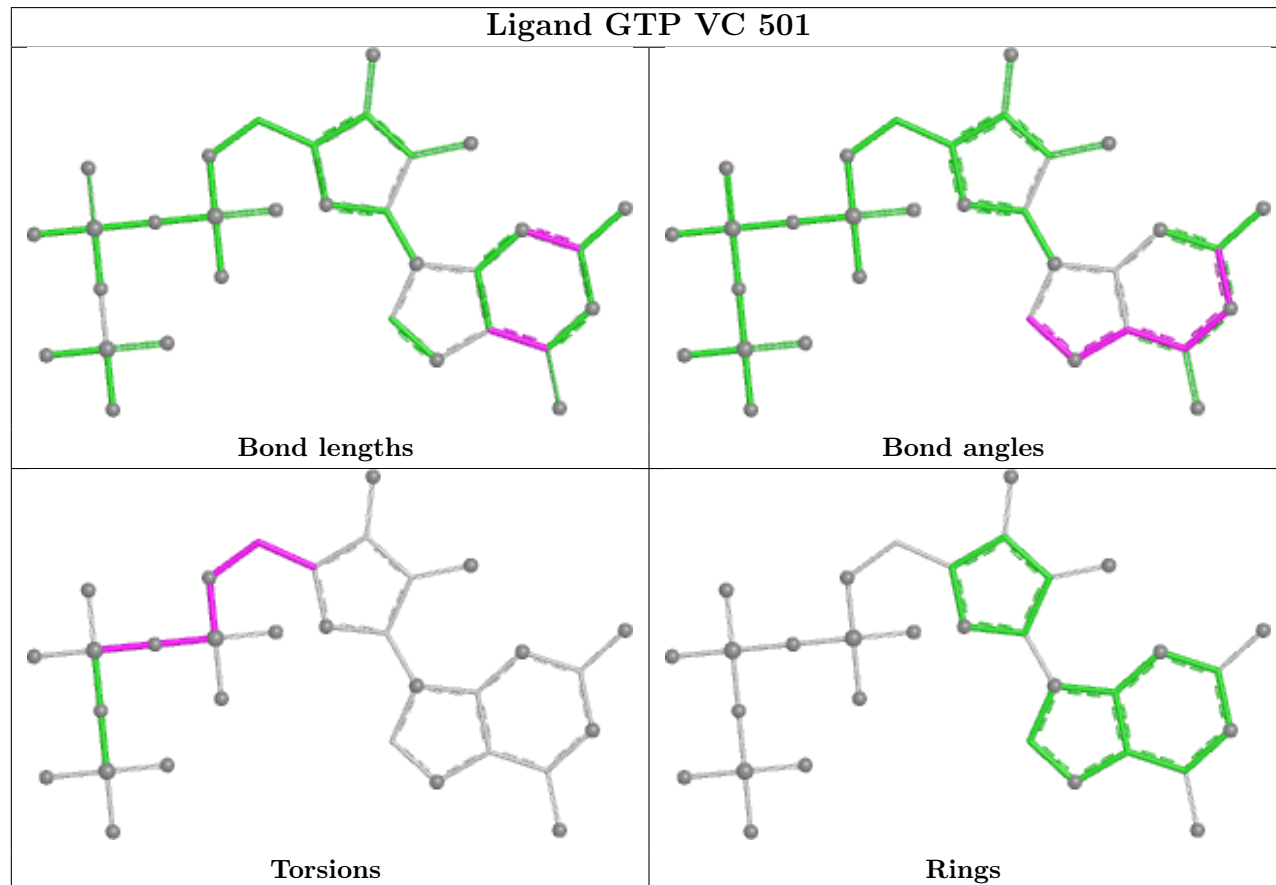
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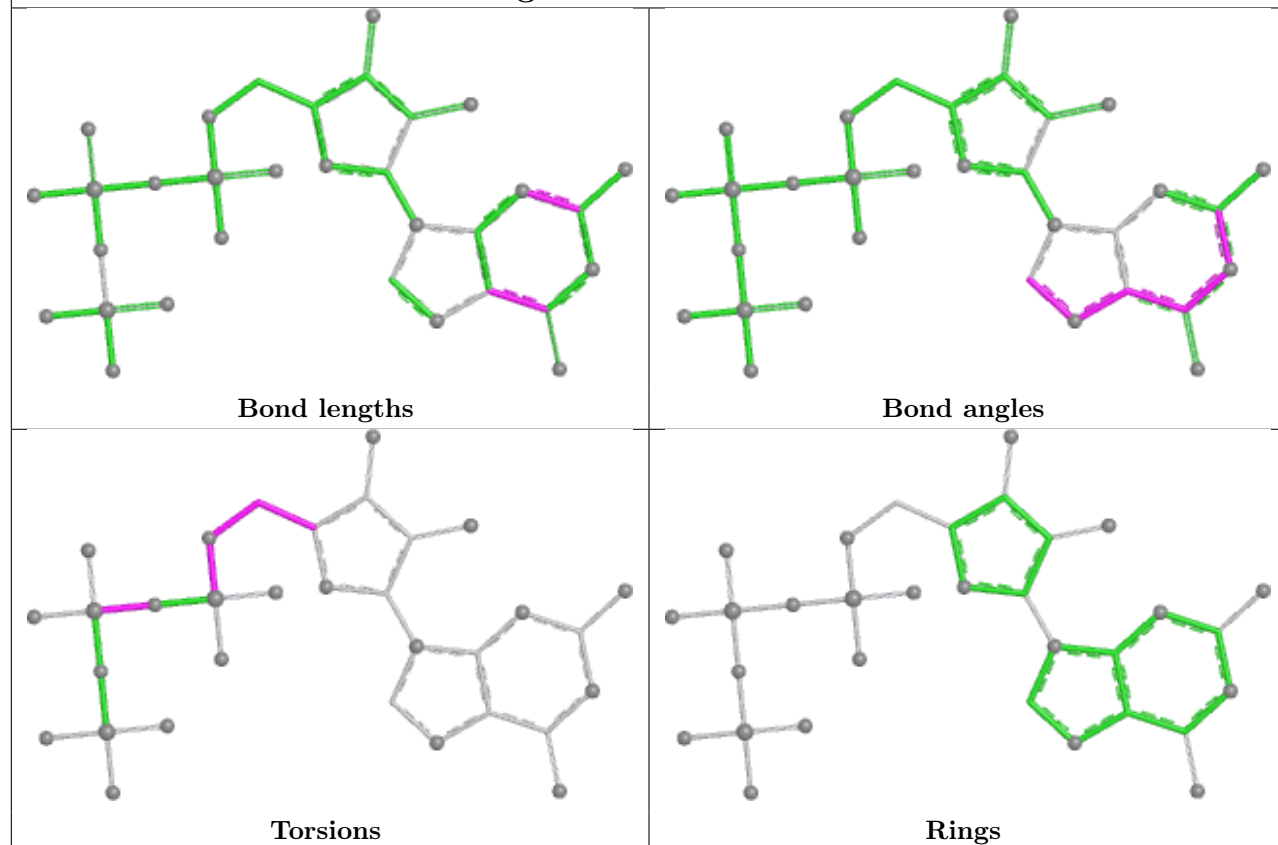
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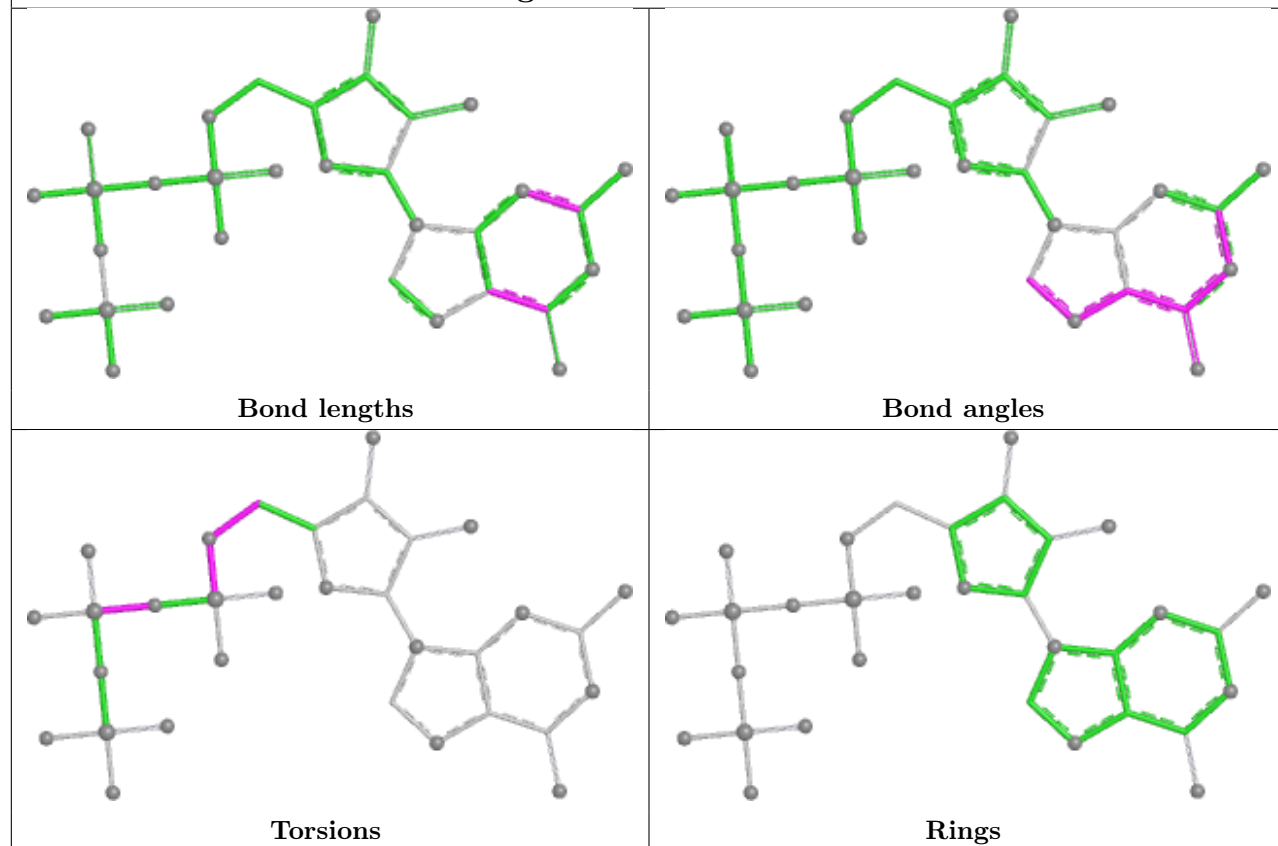
Ligand GTP VC 501

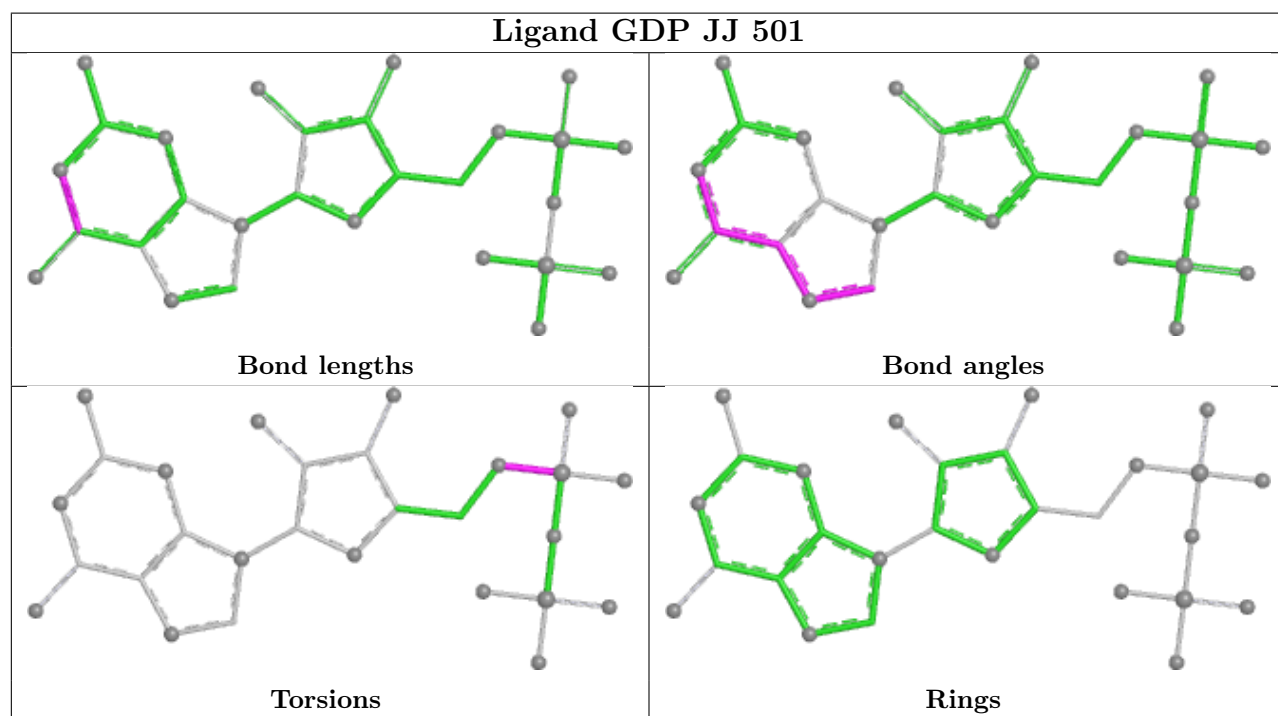
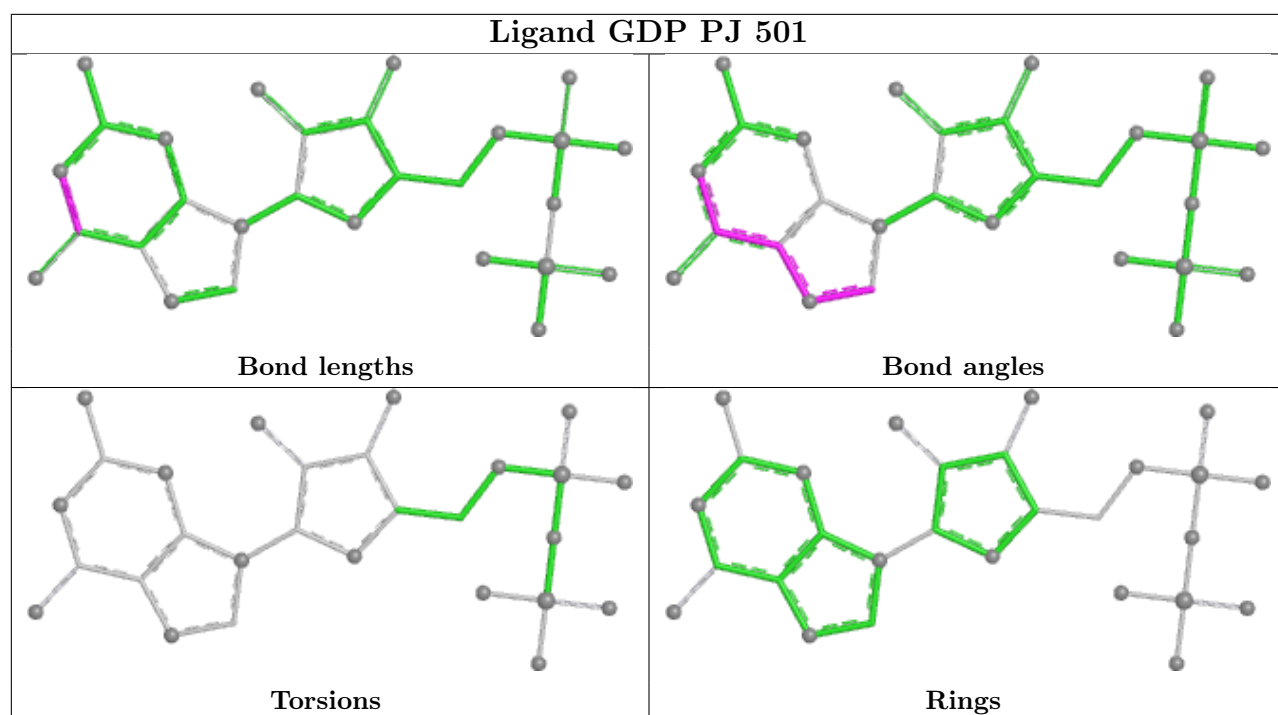


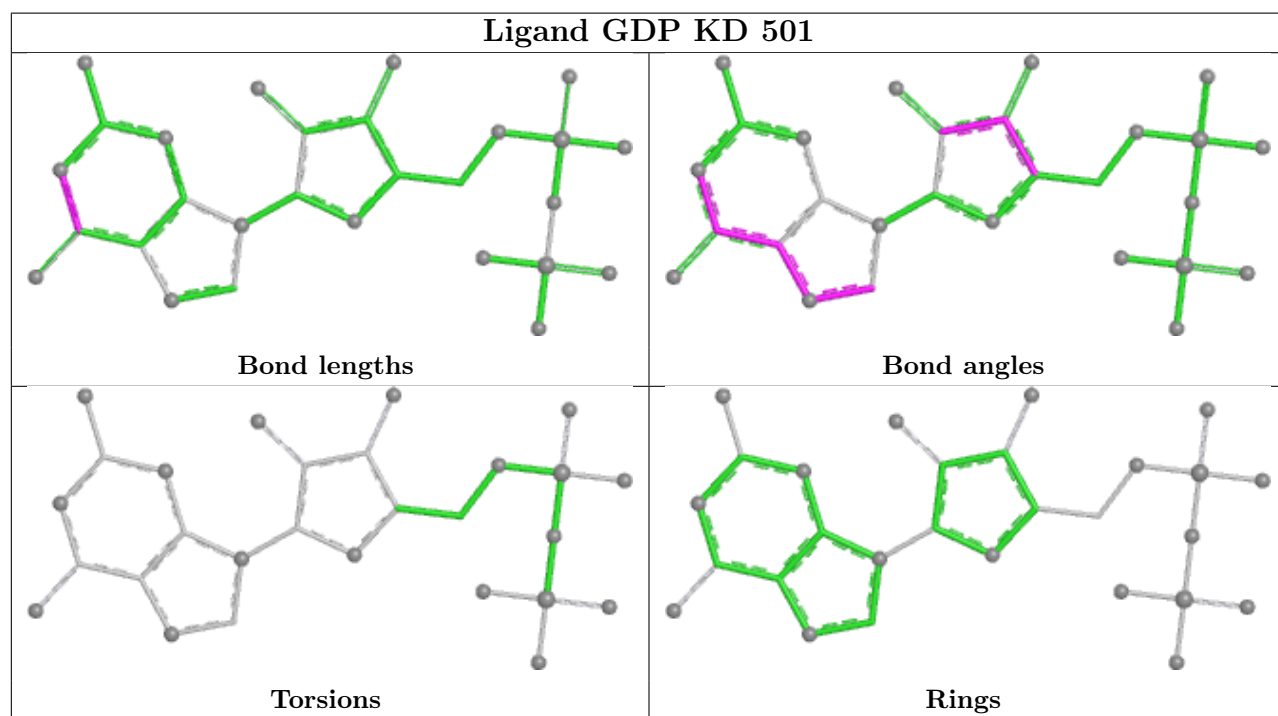
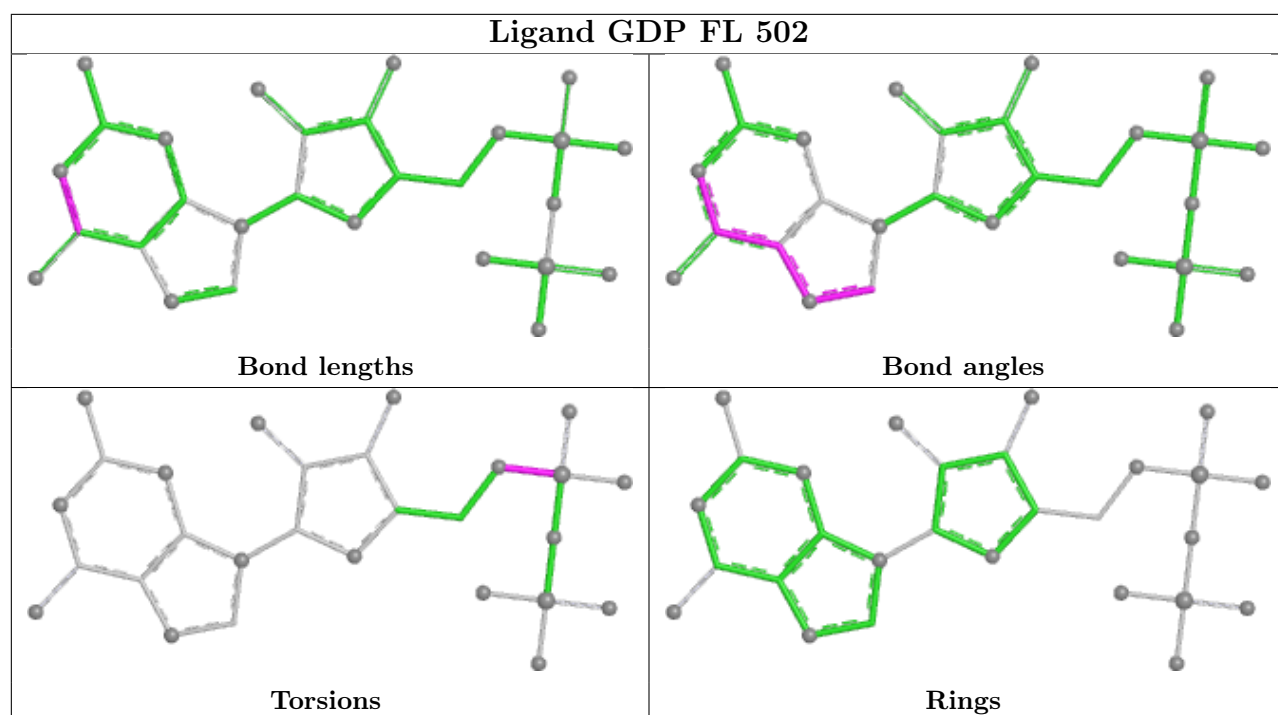
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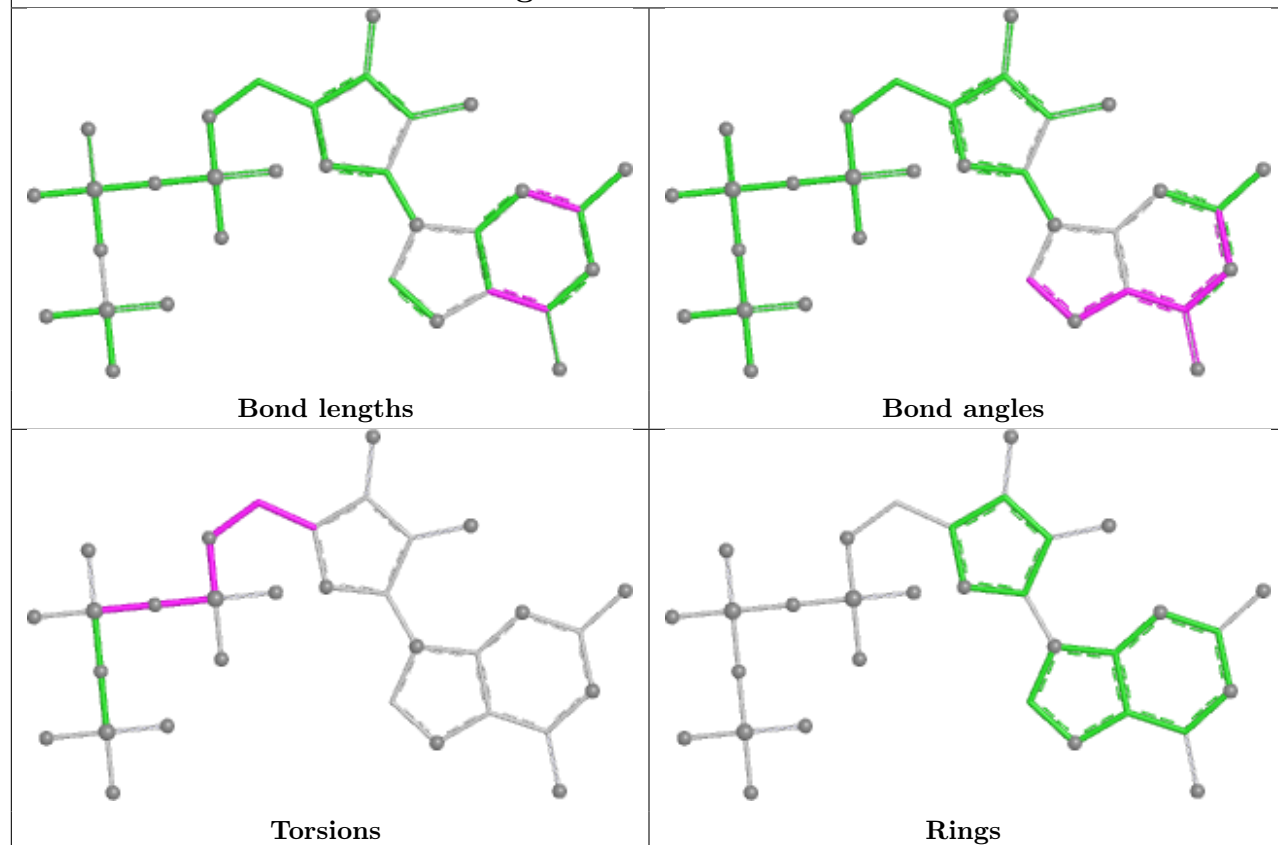
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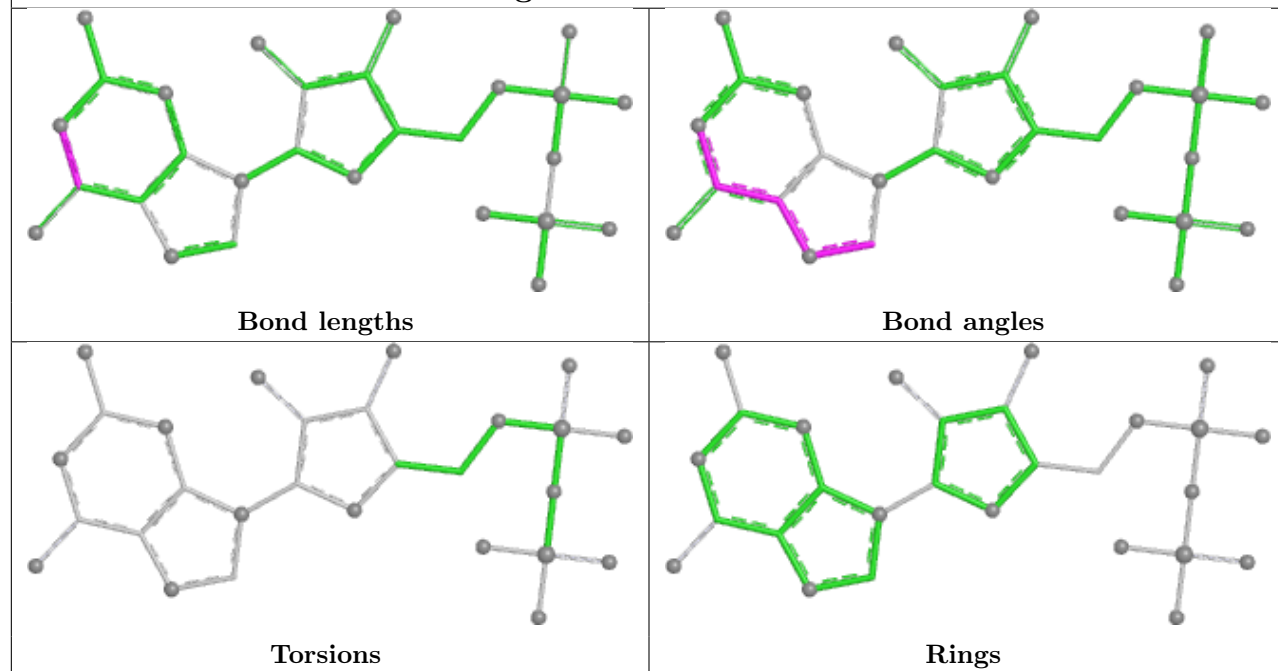




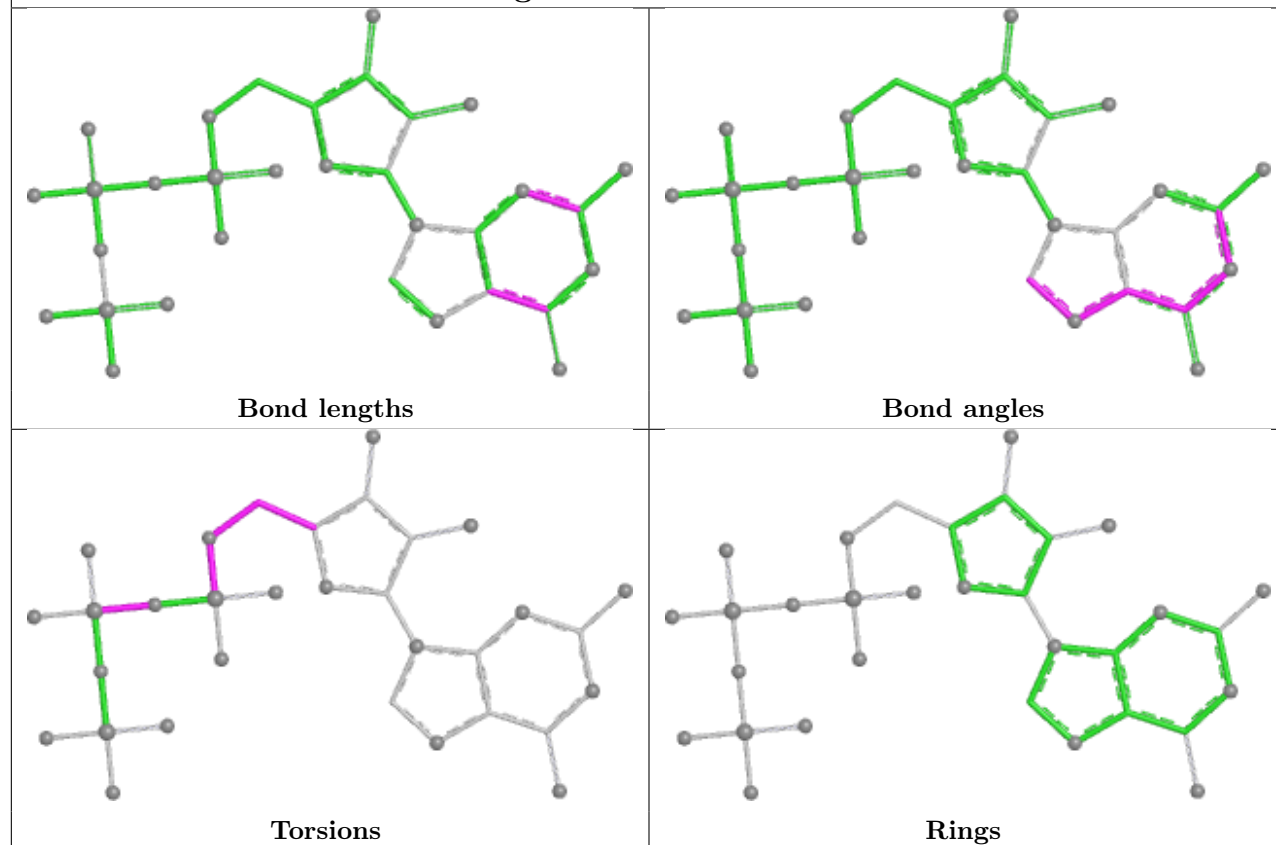
Ligand GTP DK 501



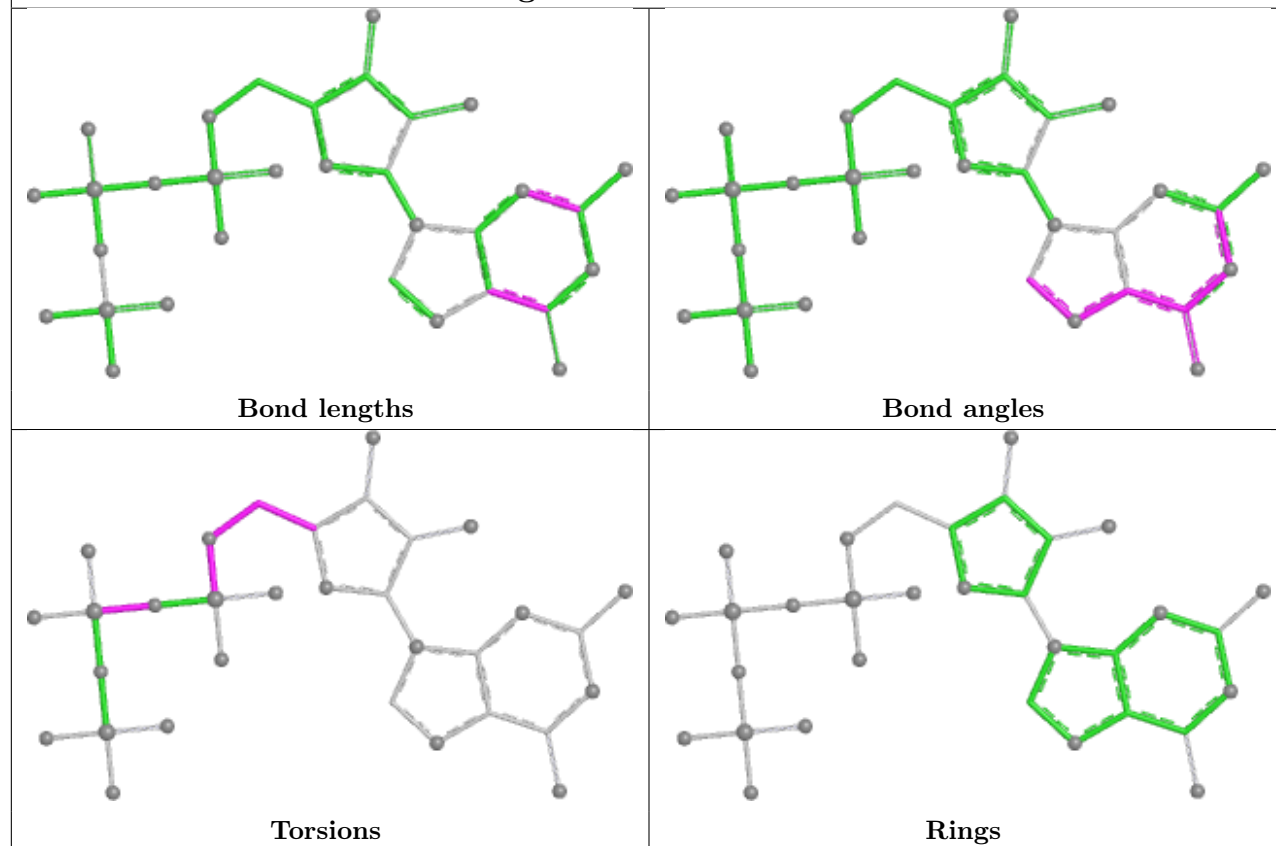
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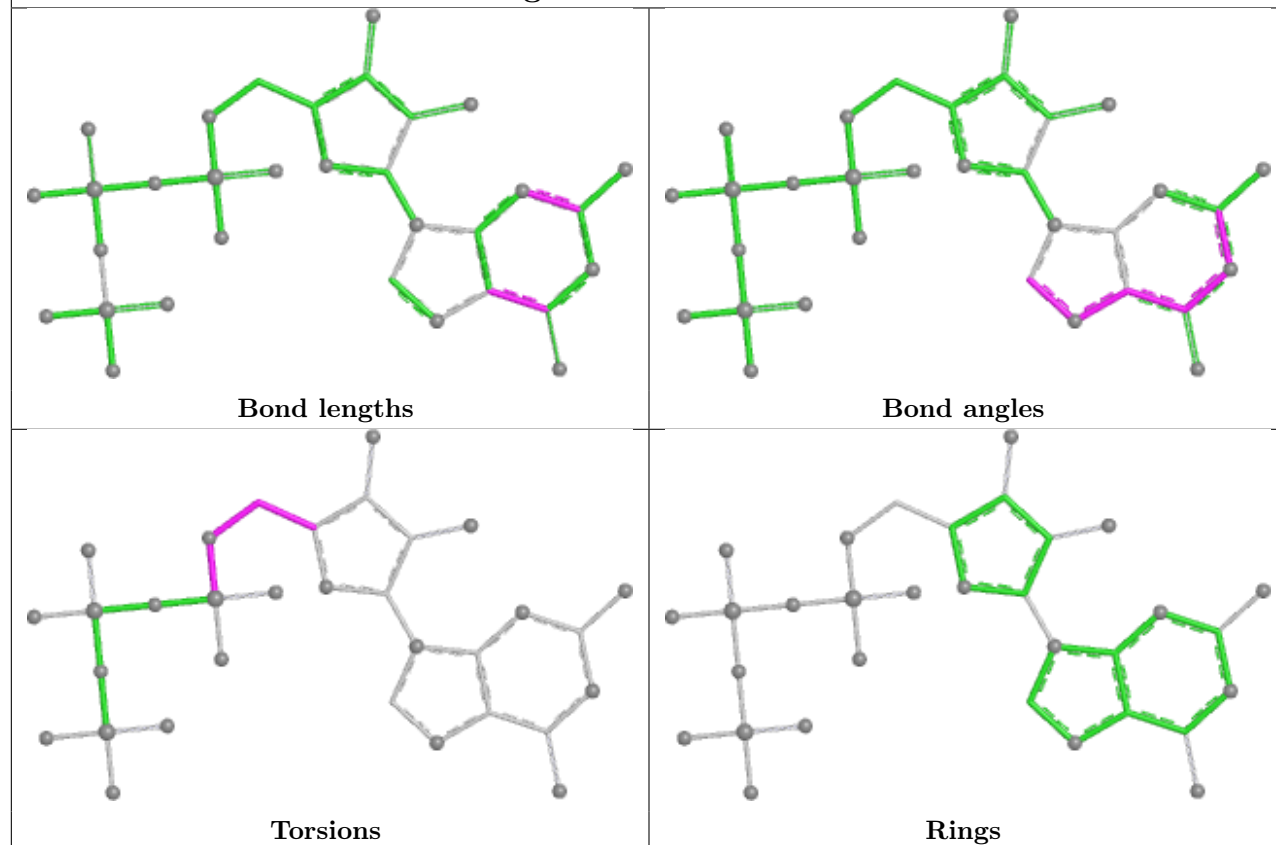
Ligand GTP PM 501



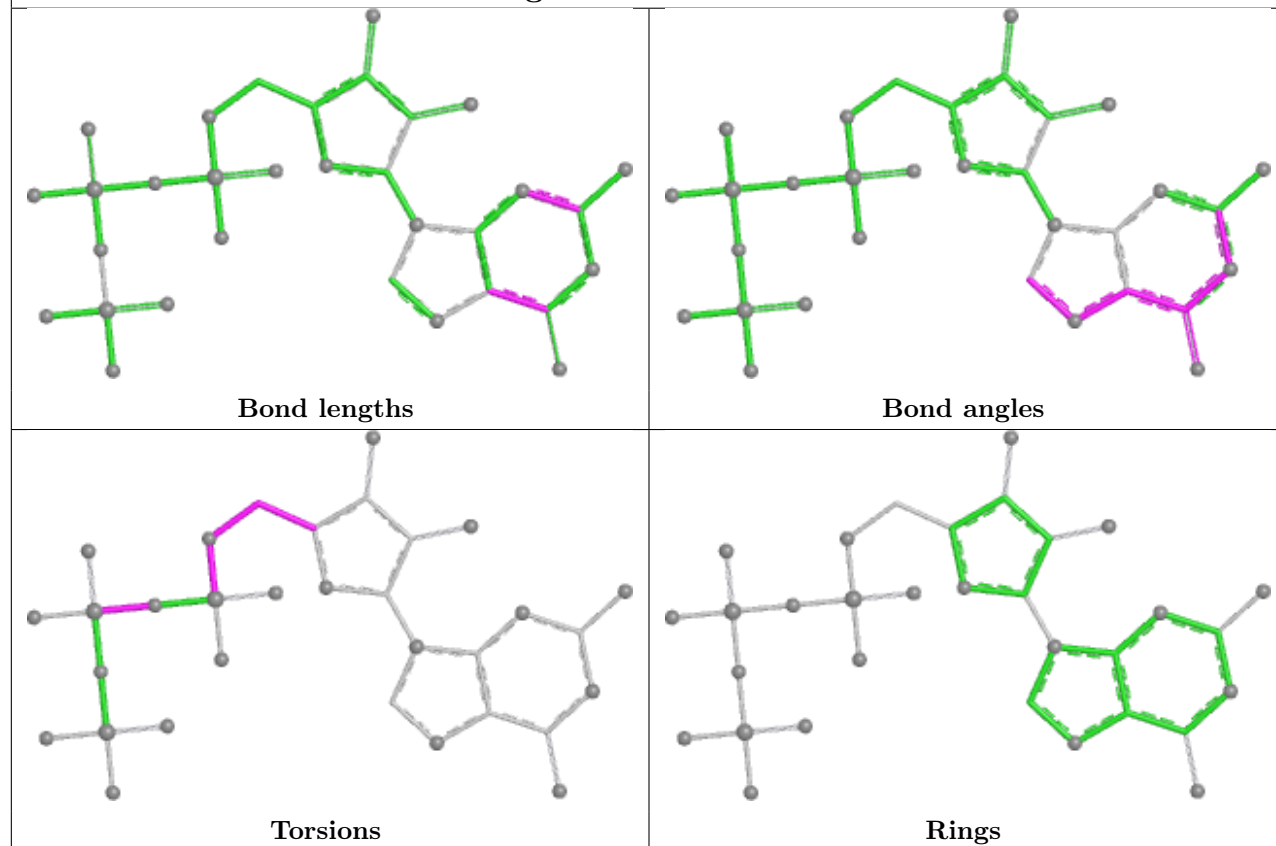
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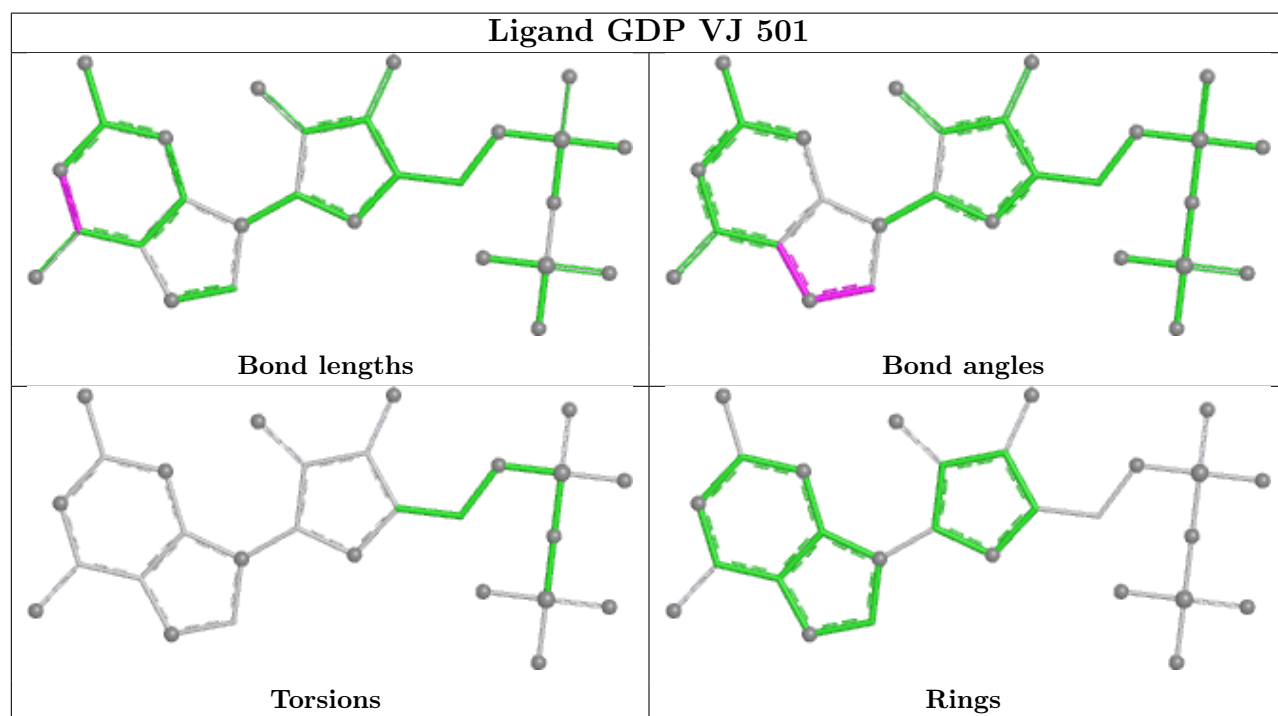
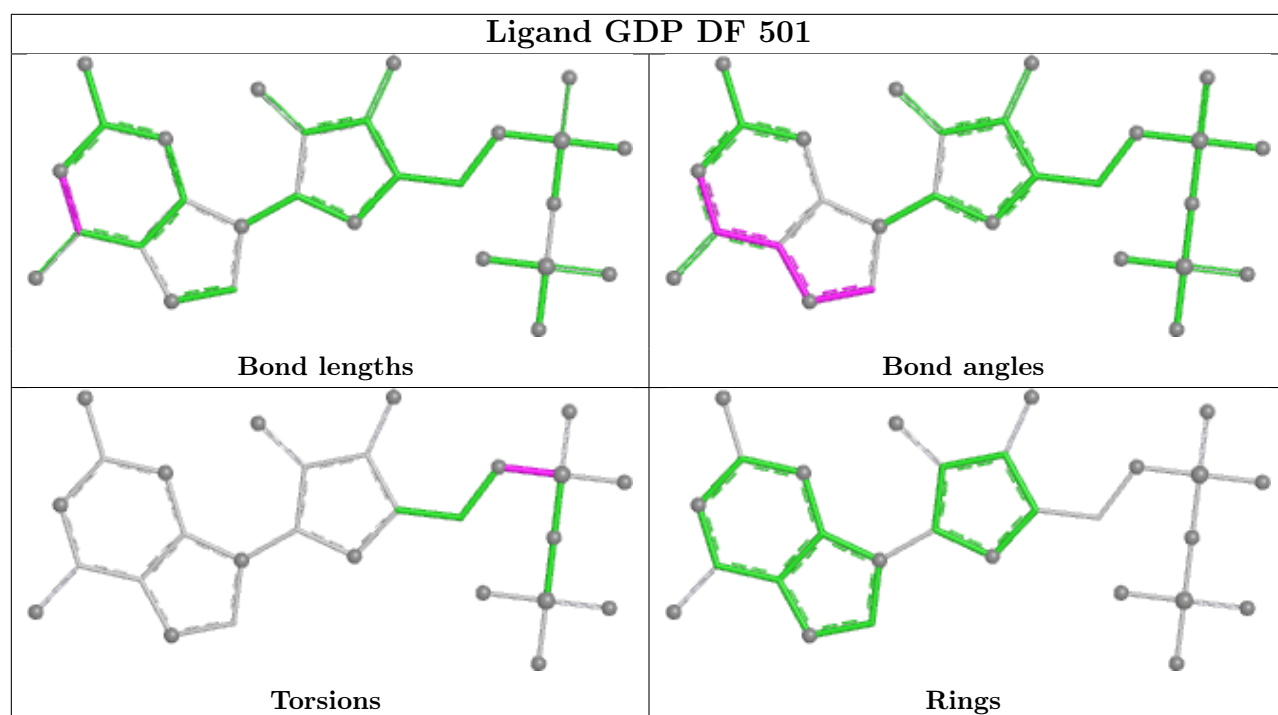


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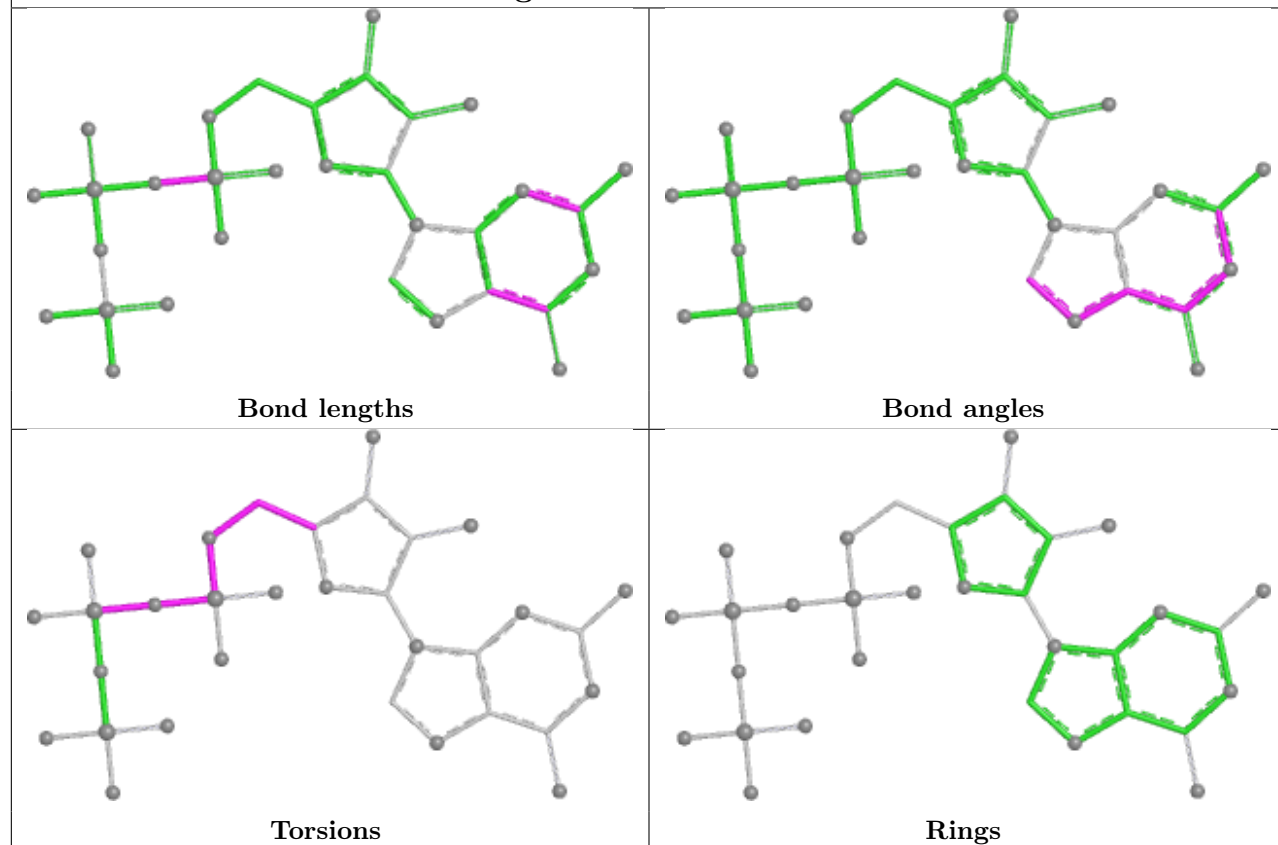


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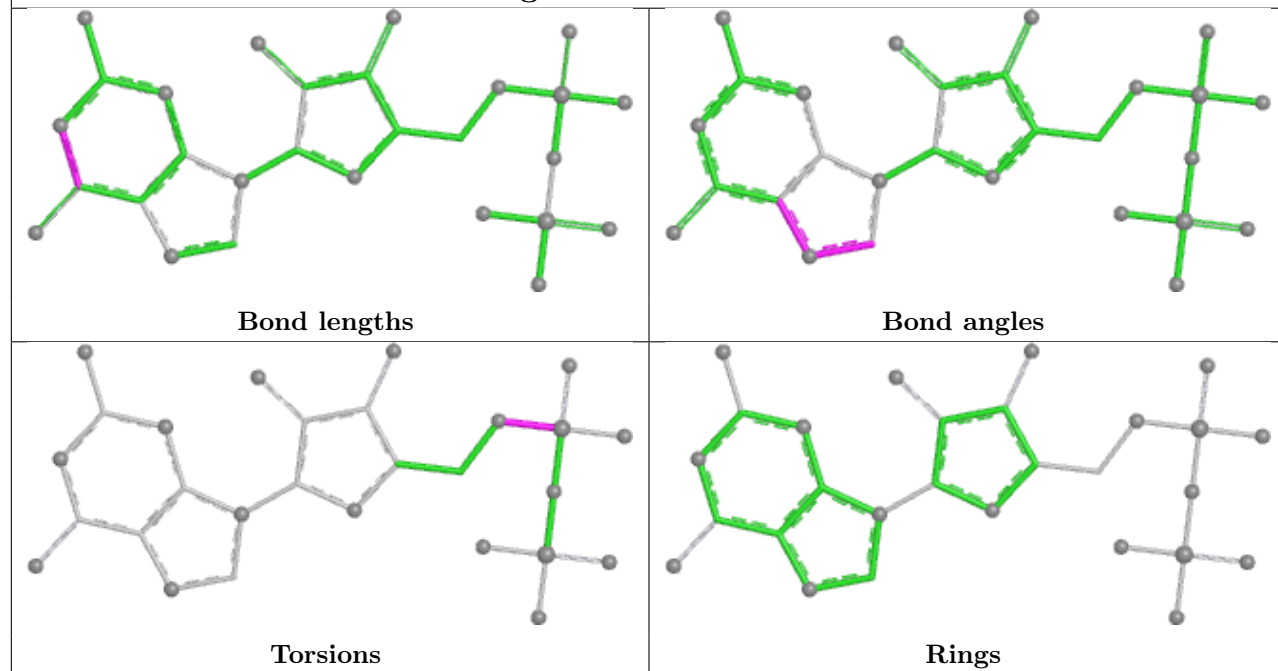




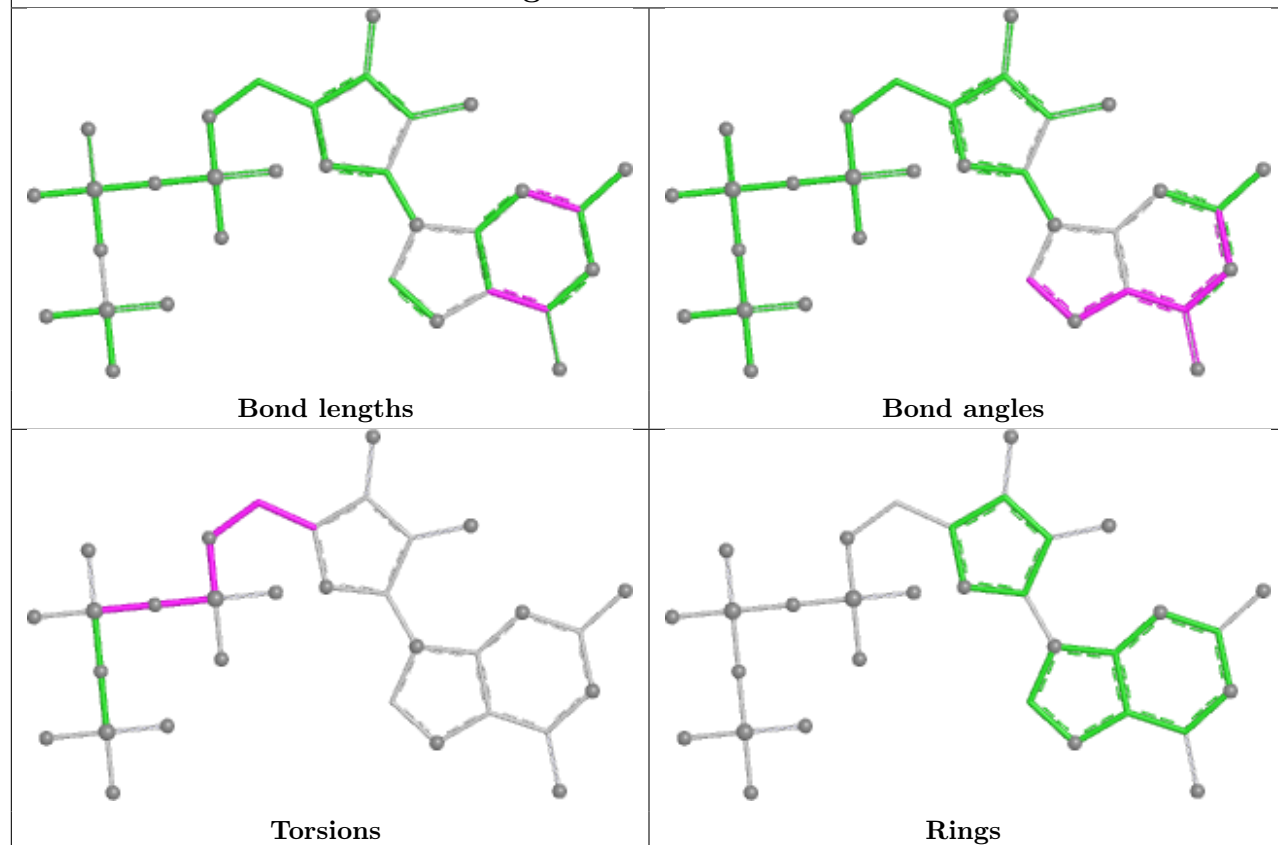
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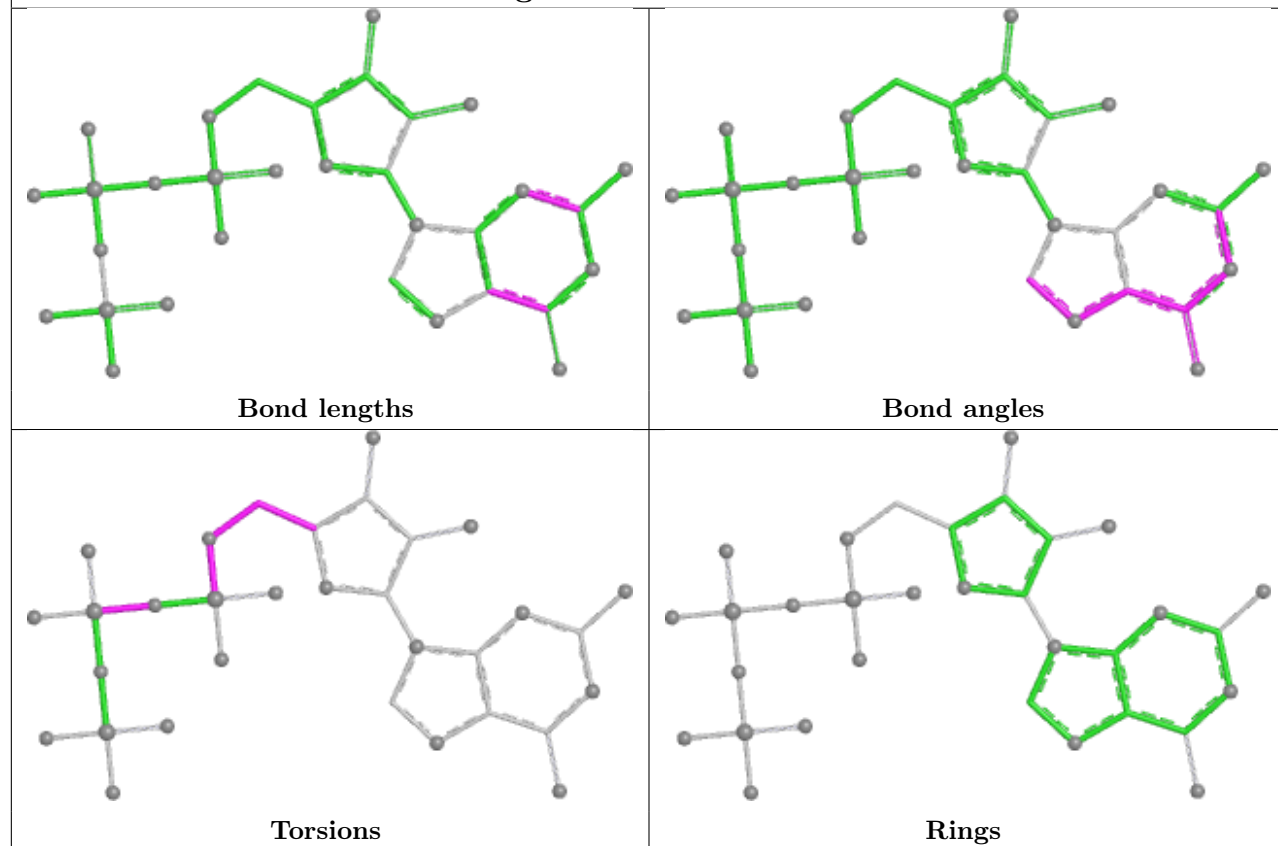
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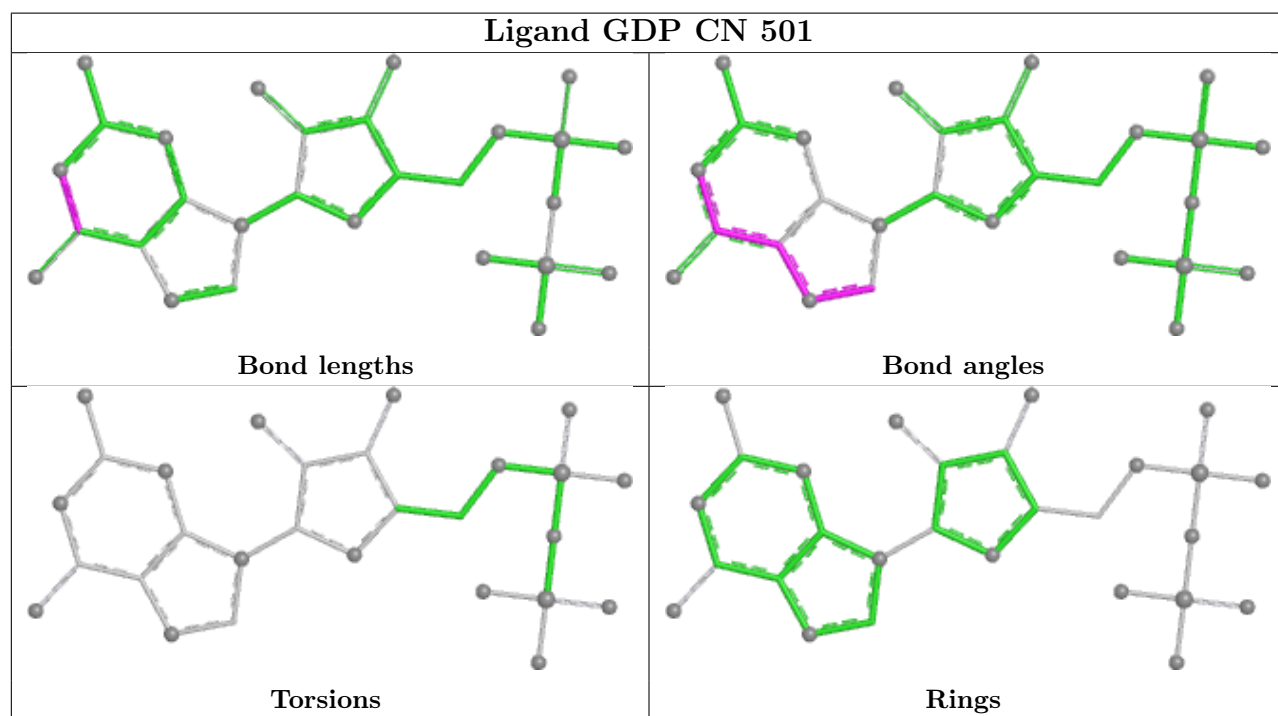
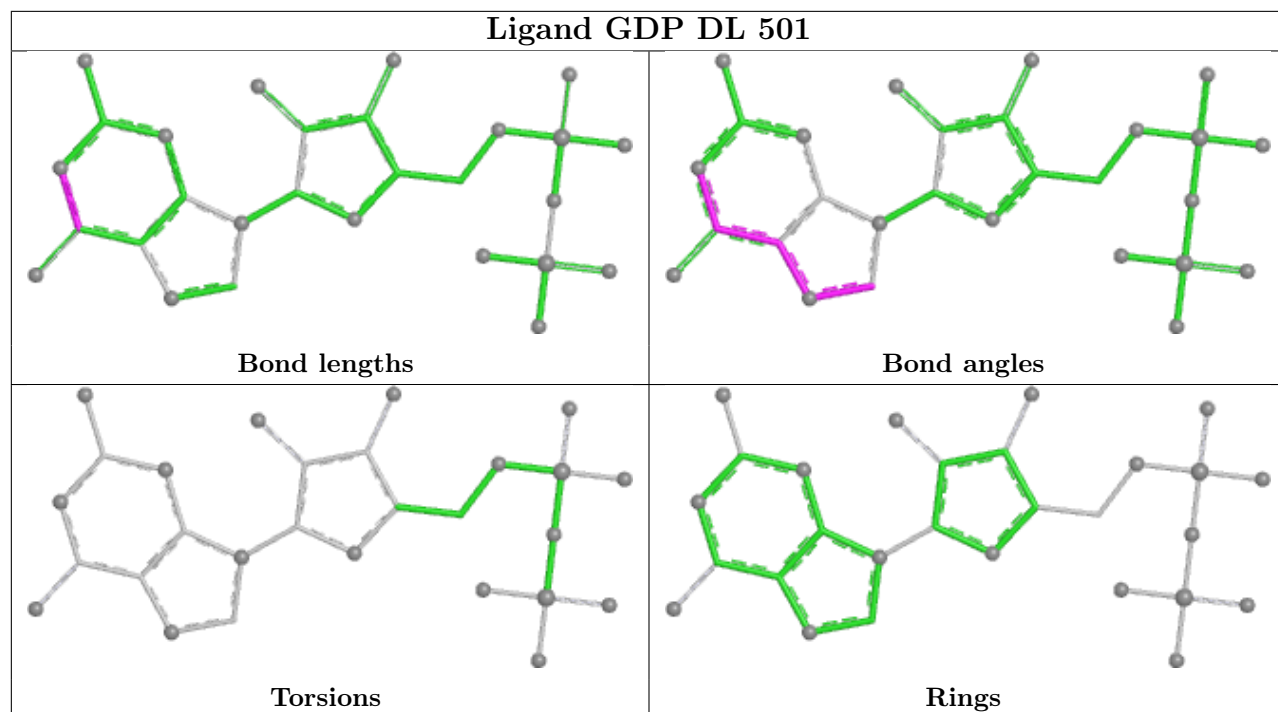


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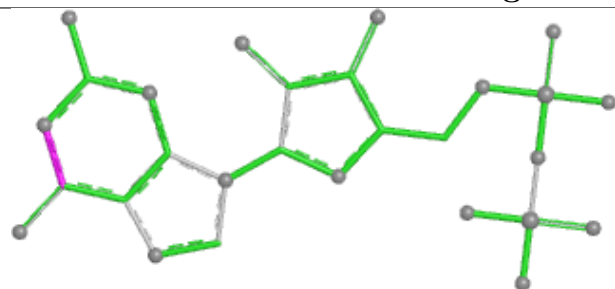


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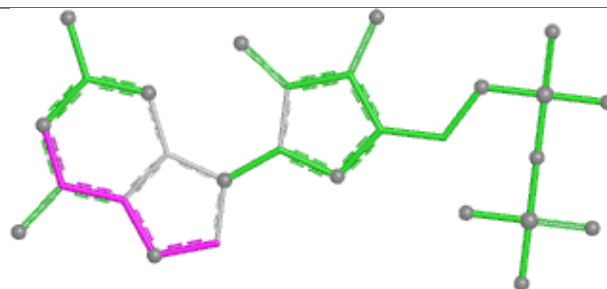




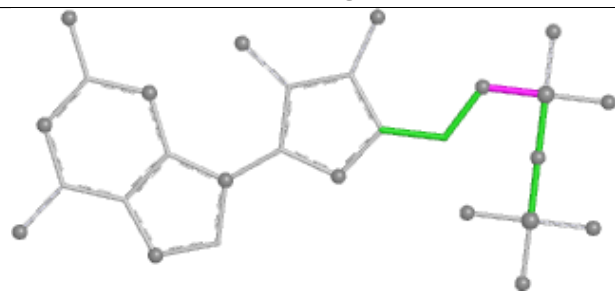
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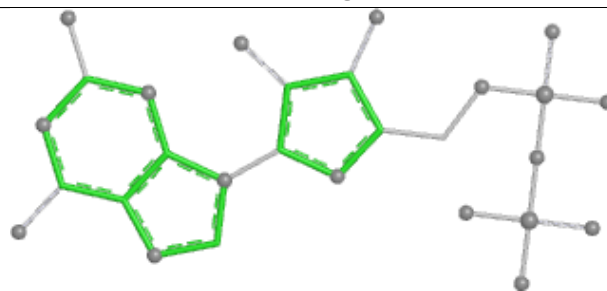
Bond lengths



Bond angles

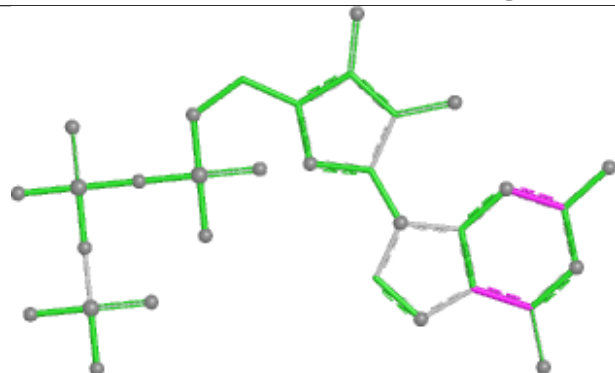


Torsions

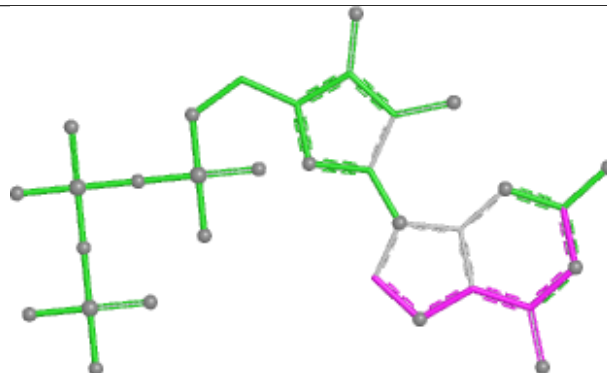


Rings

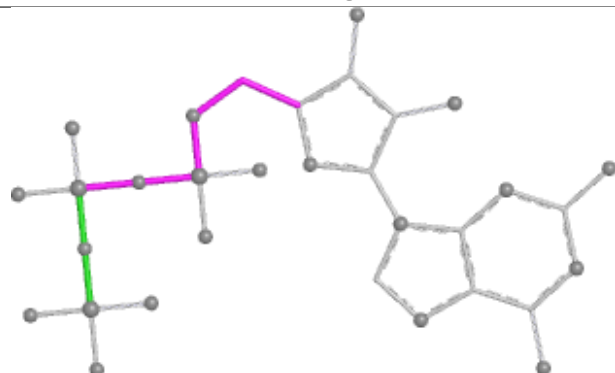
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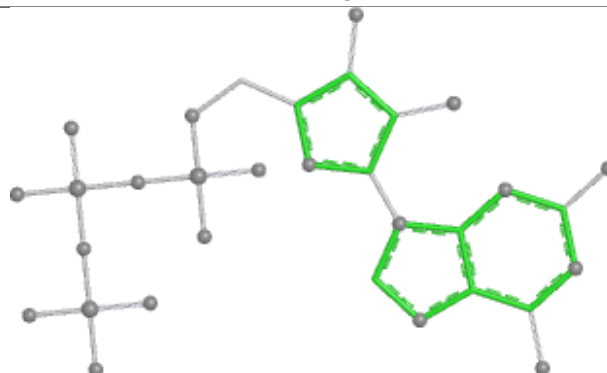
Bond lengths



Bond angles

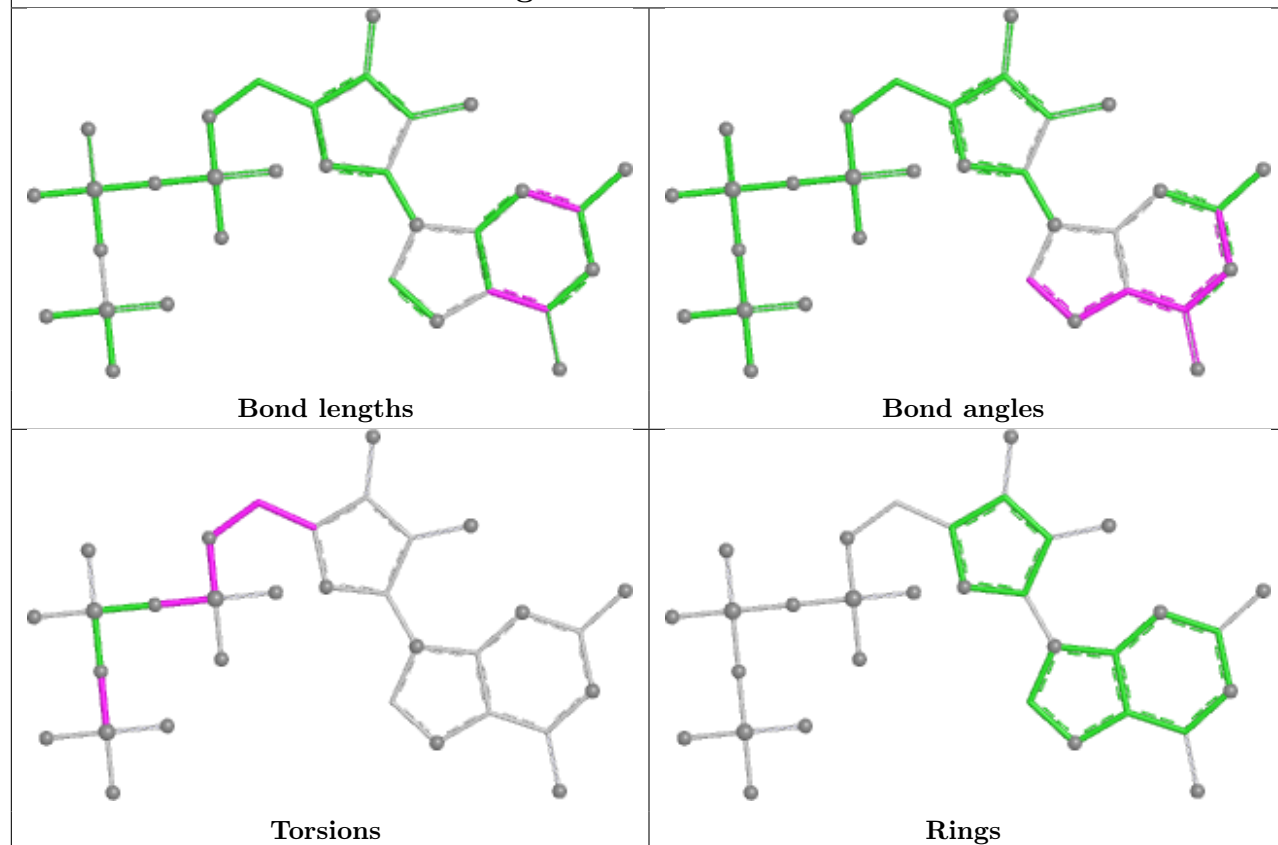


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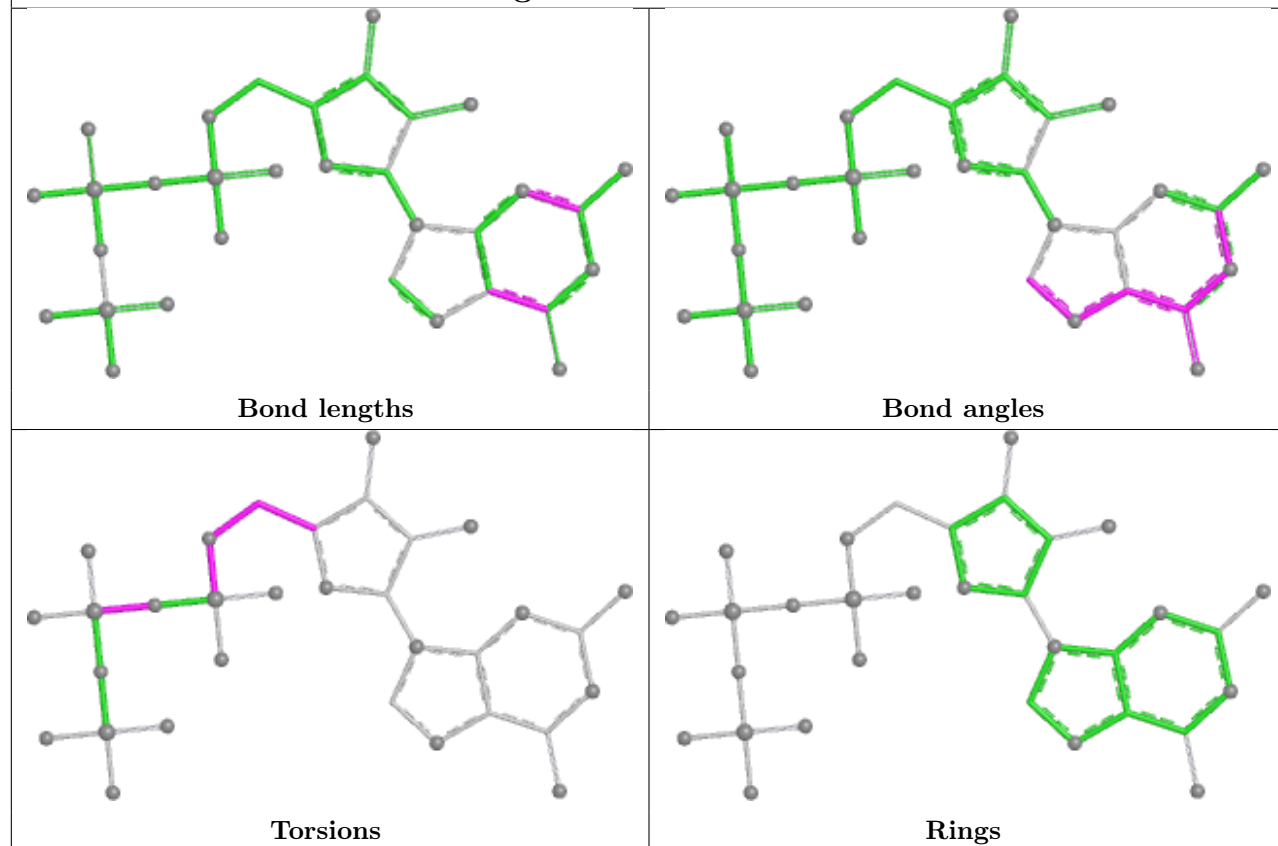


Rings

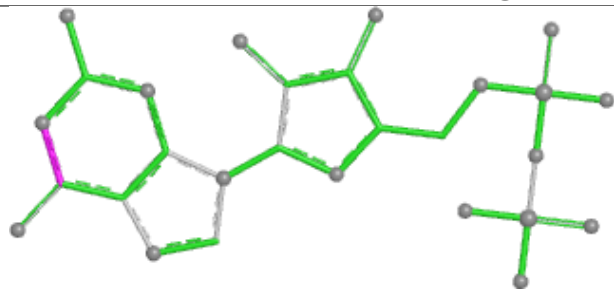
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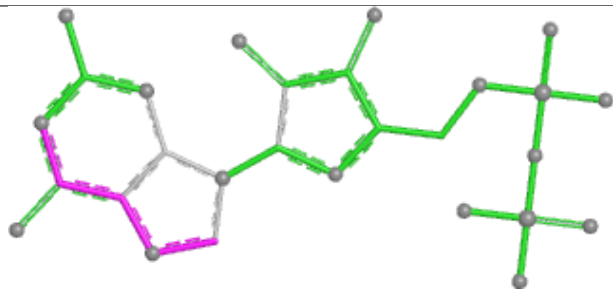
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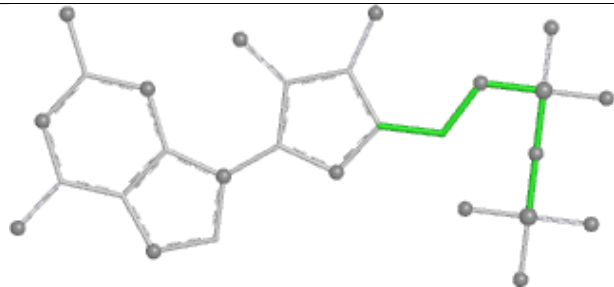
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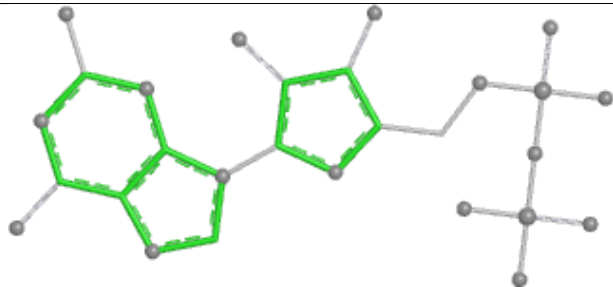
Bond lengths



Bond angles

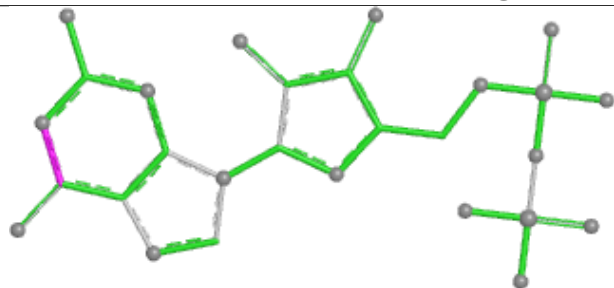


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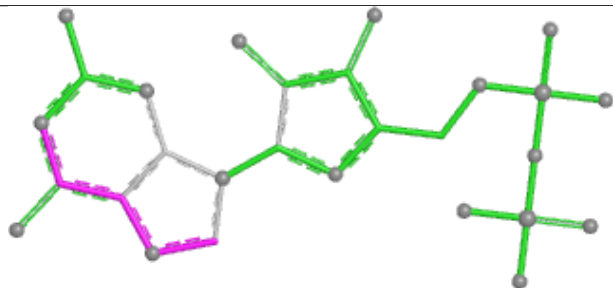


Rings

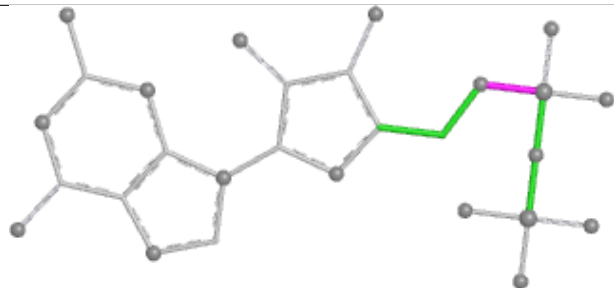
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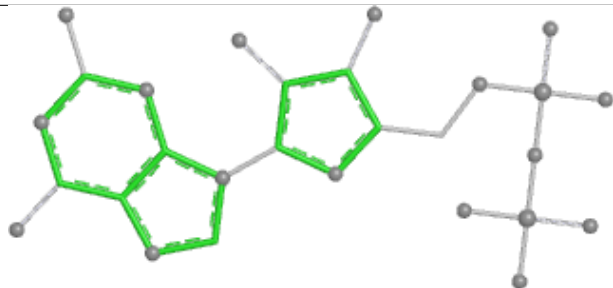
Bond lengths



Bond angles

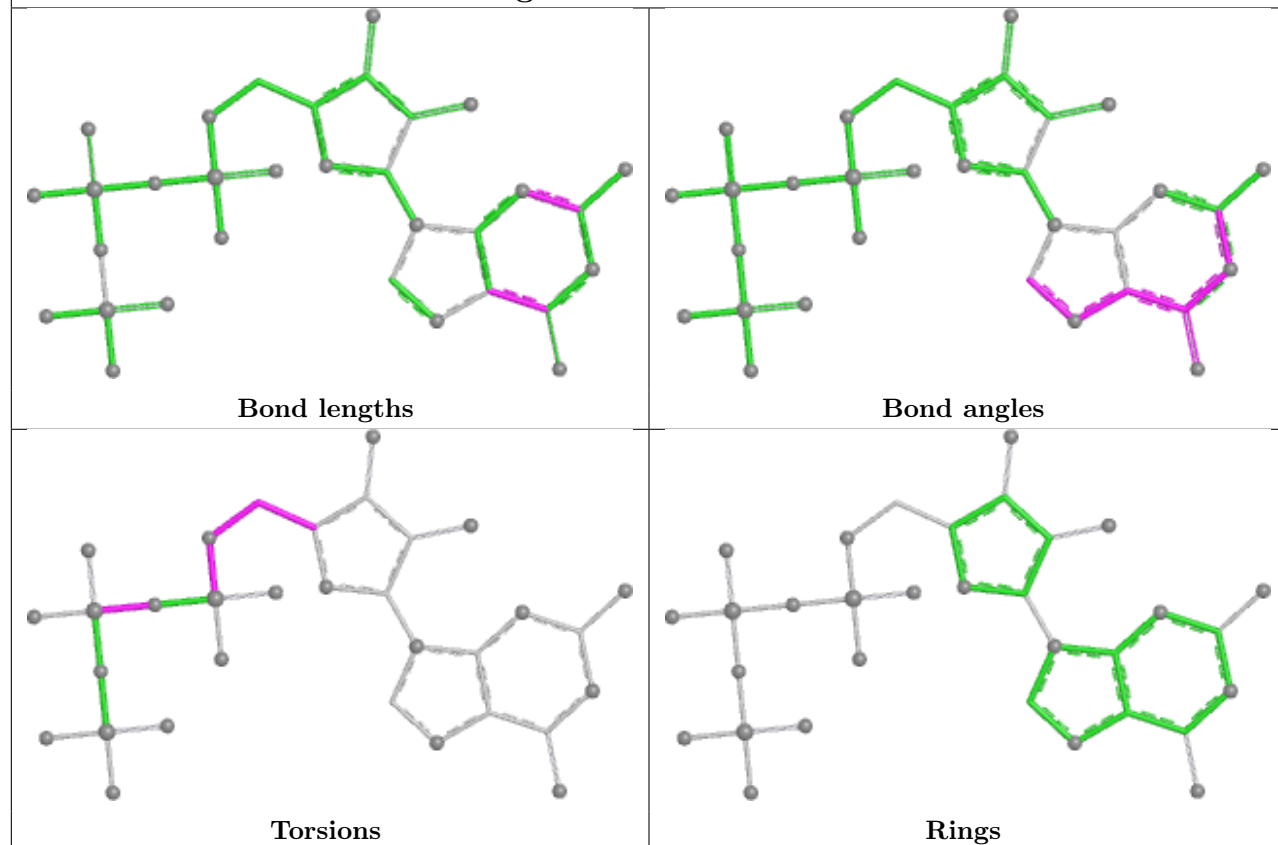


Torsions

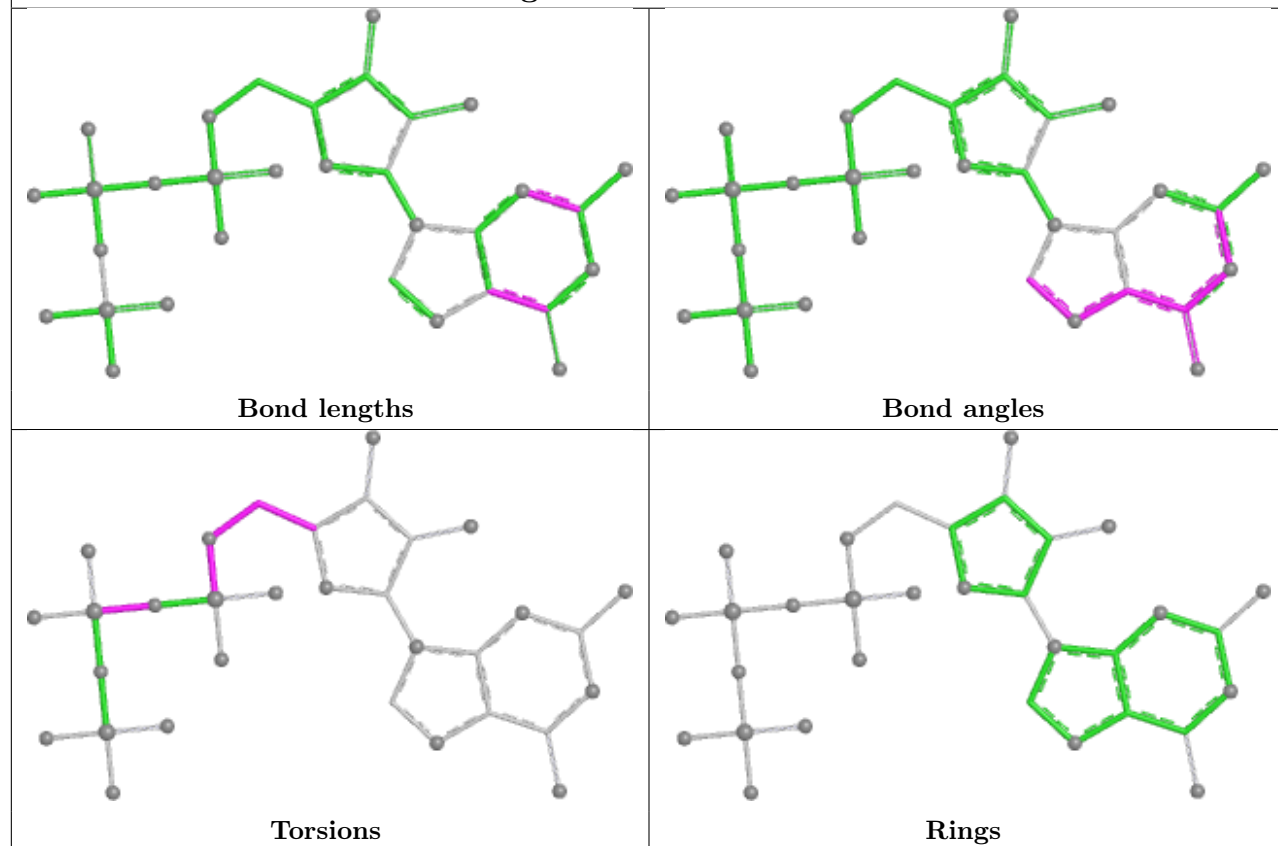


Rings

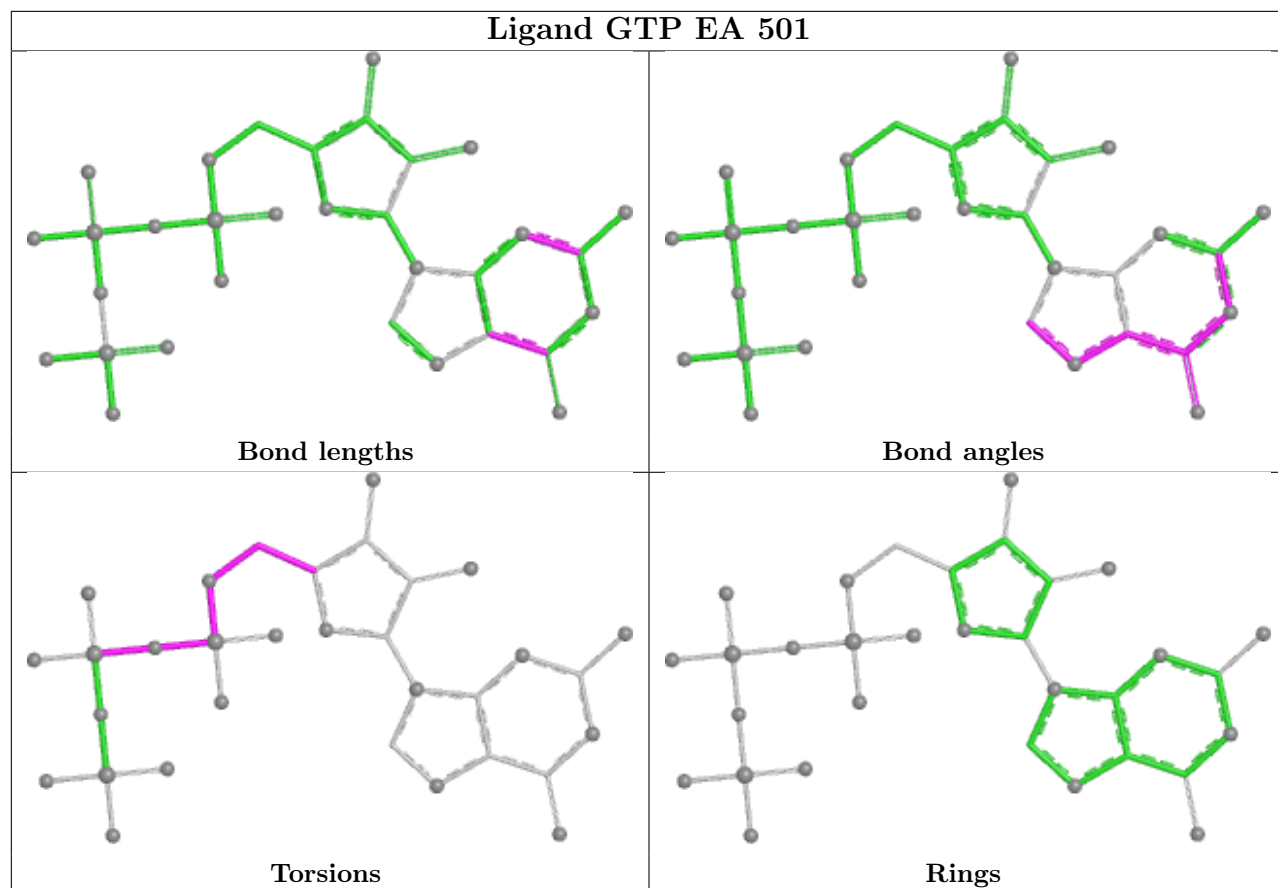
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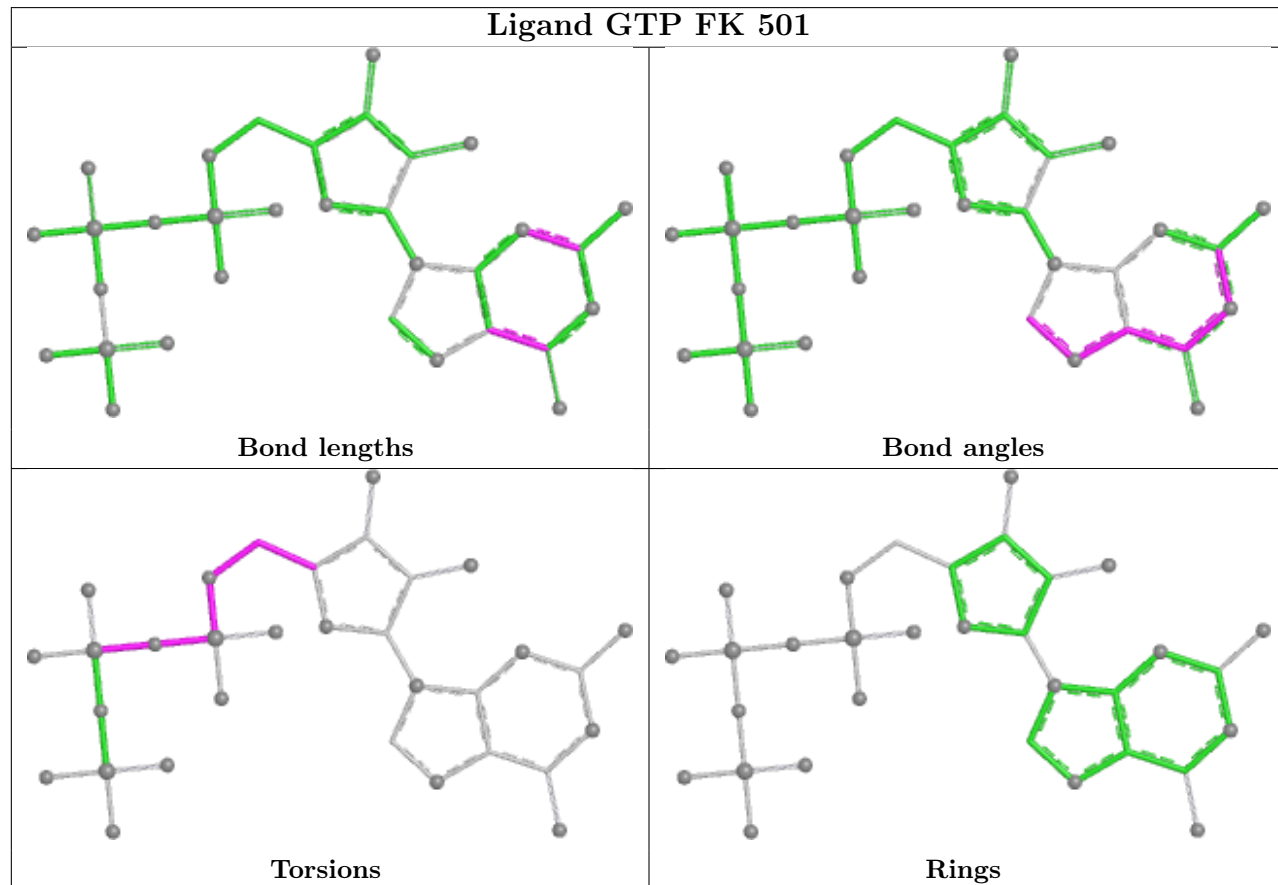
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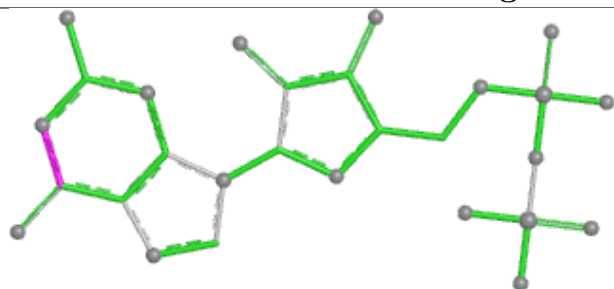
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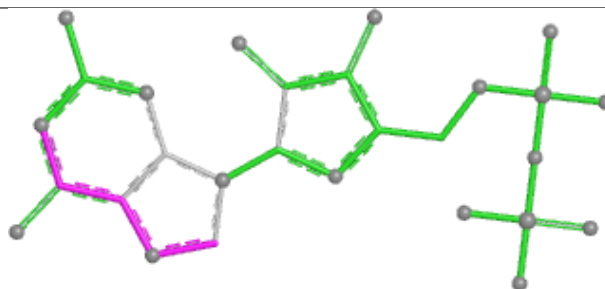
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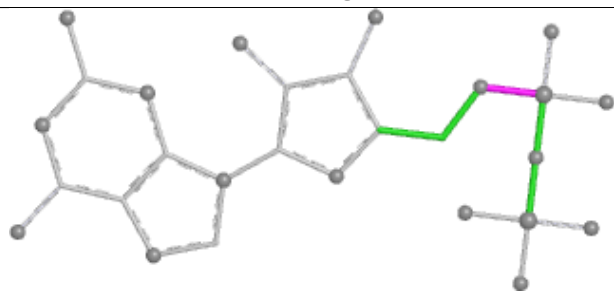
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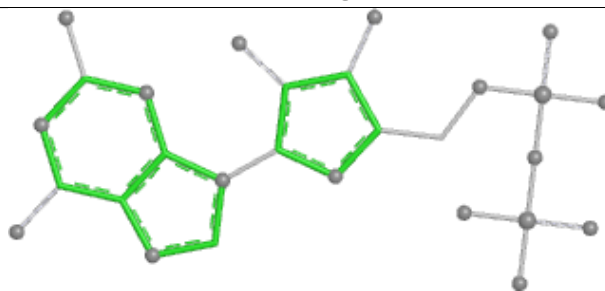
Bond lengths



Bond angles

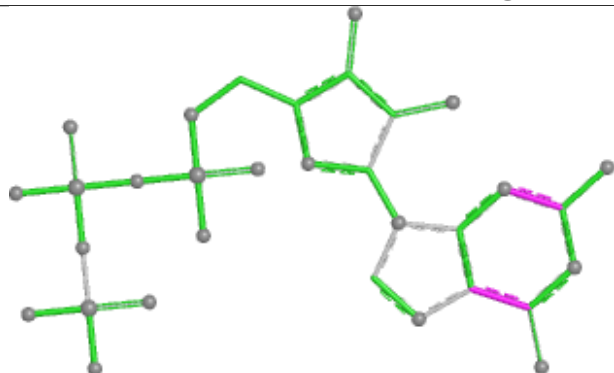


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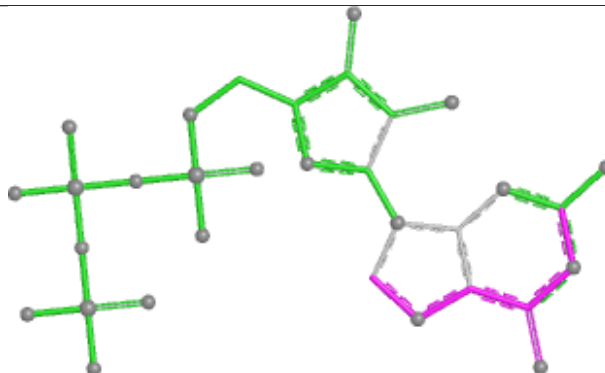


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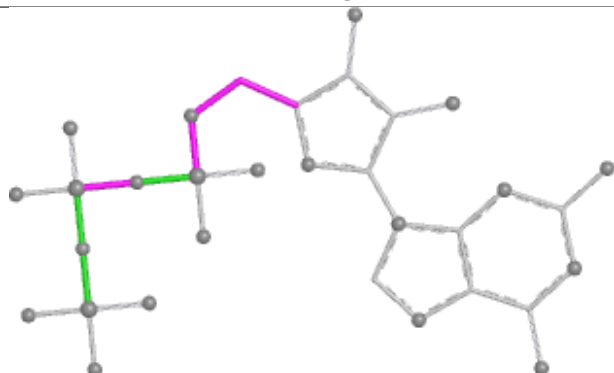
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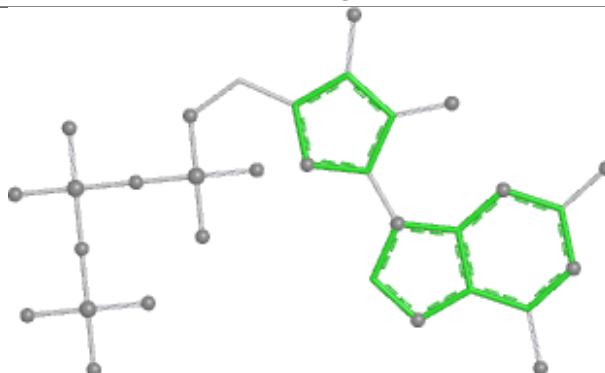
Bond lengths



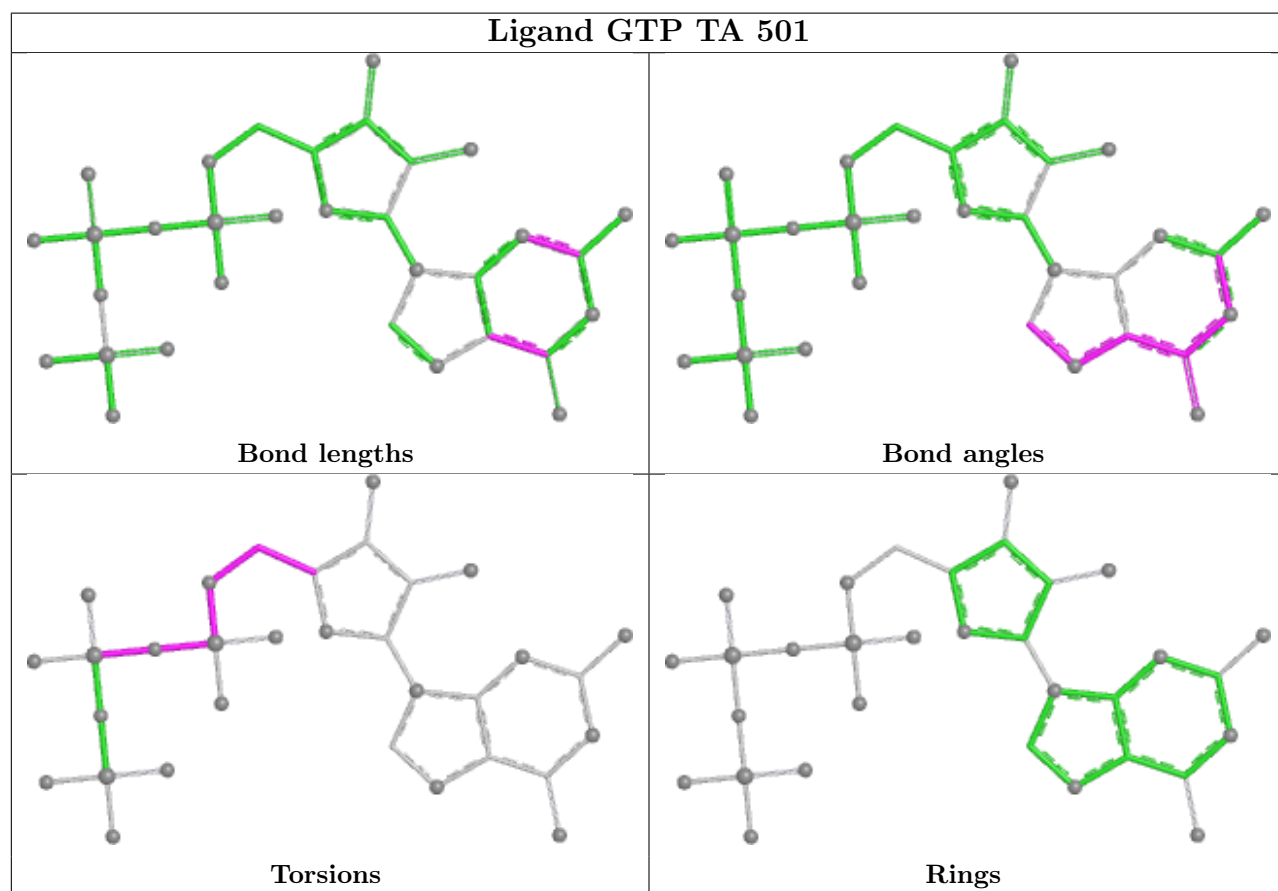
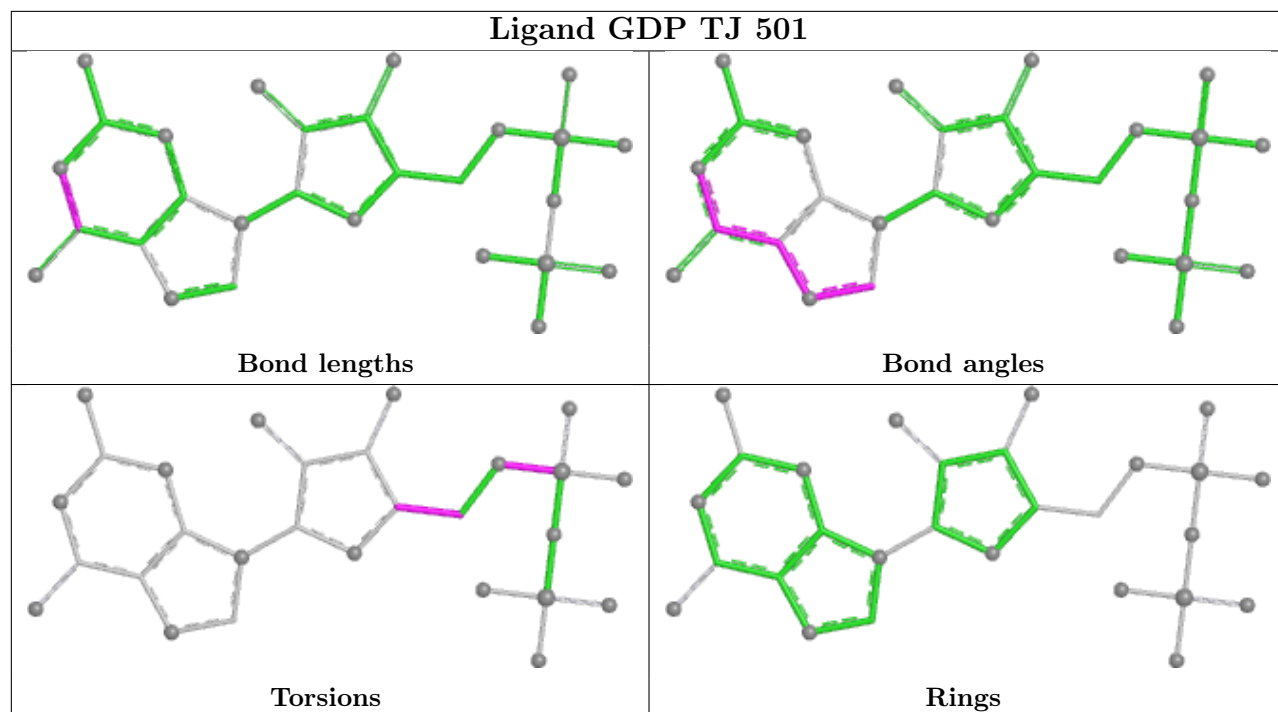
Bond angles



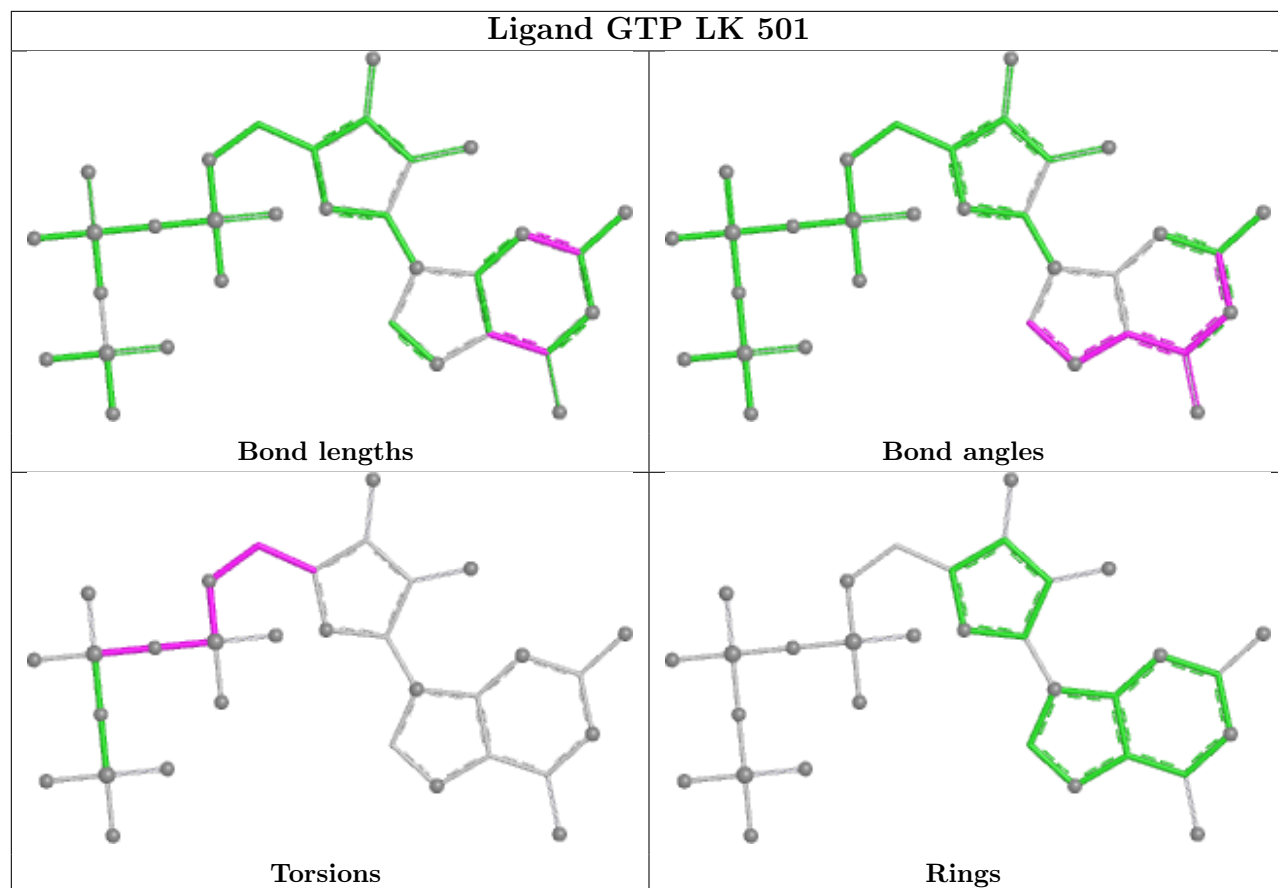
Torsions



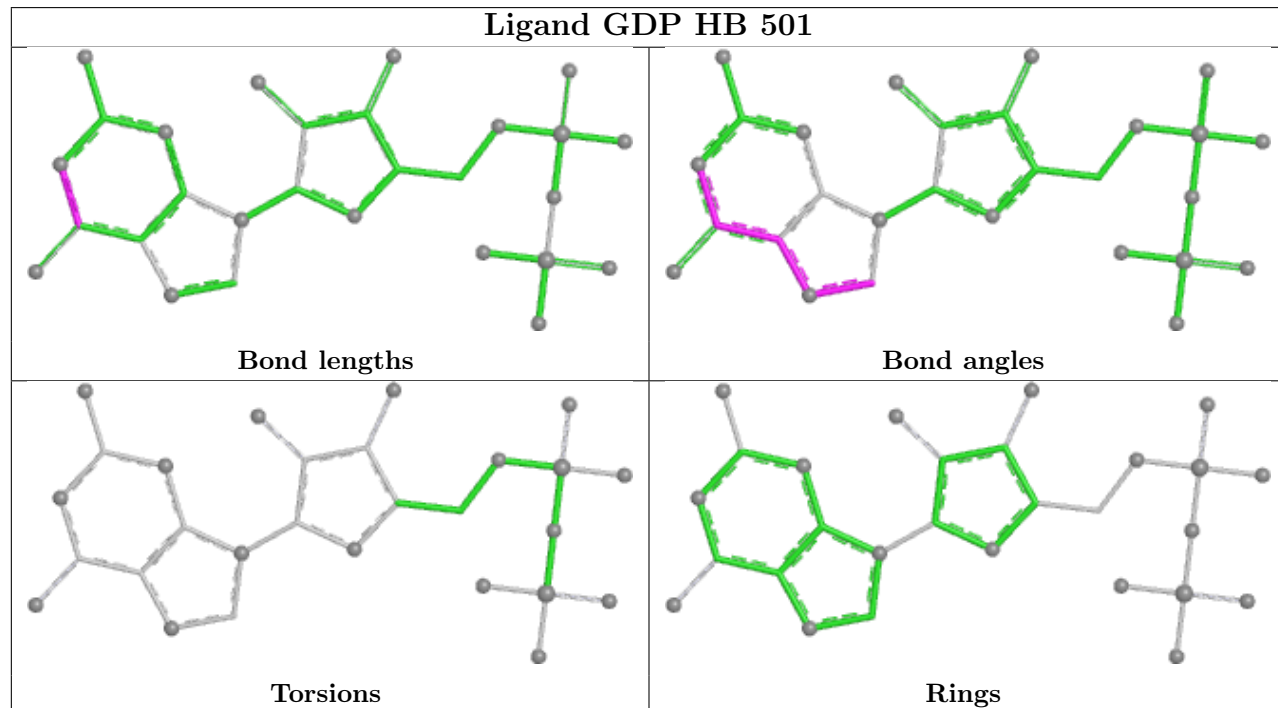
Rings



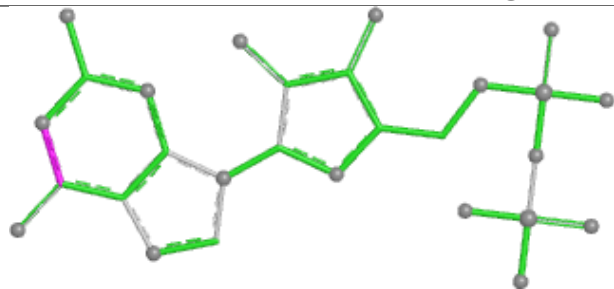
Ligand GTP LK 501



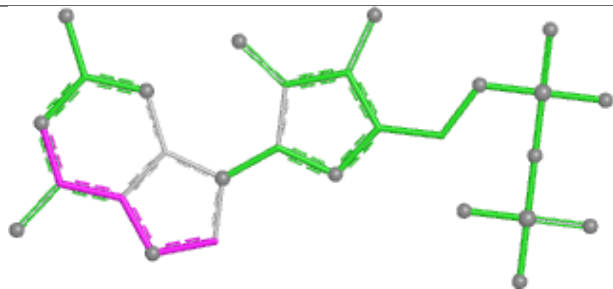
Ligand GDP HB 501



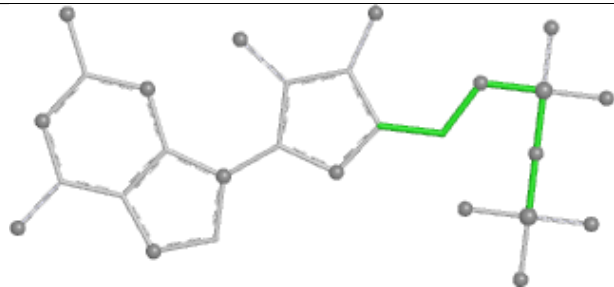
Ligand GDP BJ 501



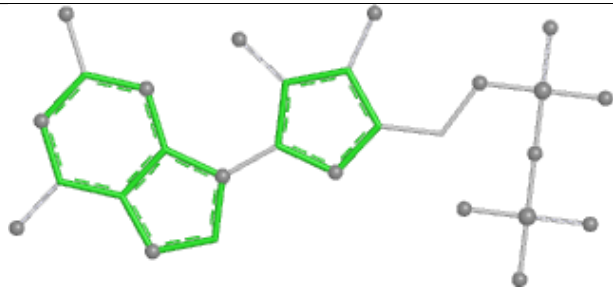
Bond lengths



Bond angles

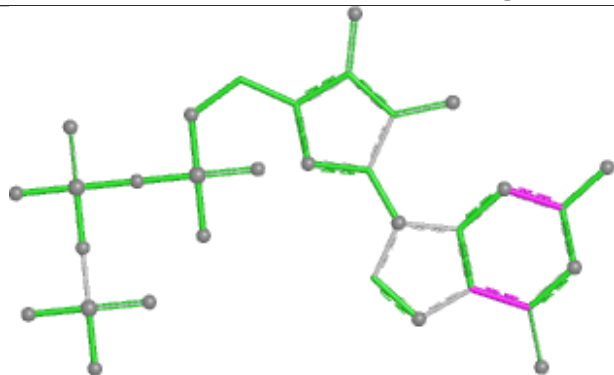


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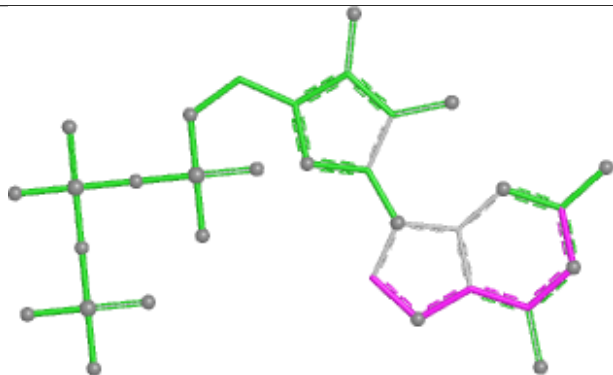


Rings

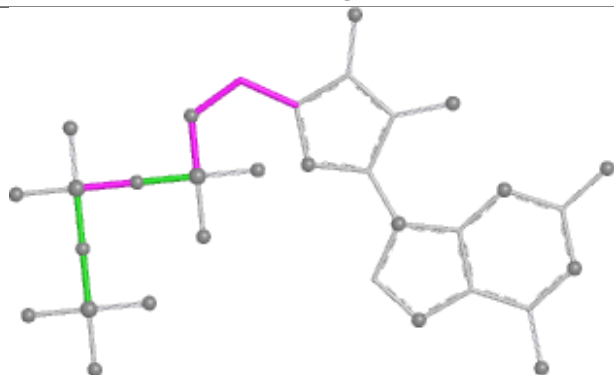
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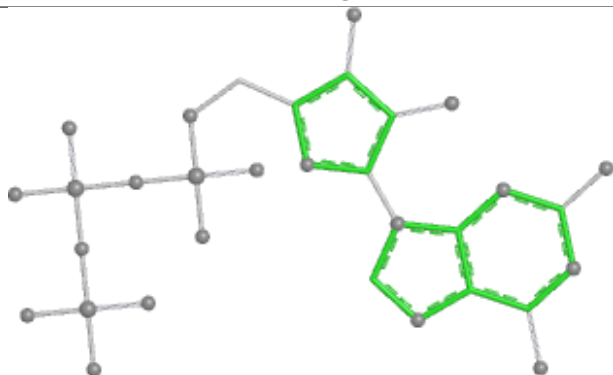
Bond lengths



Bond angles

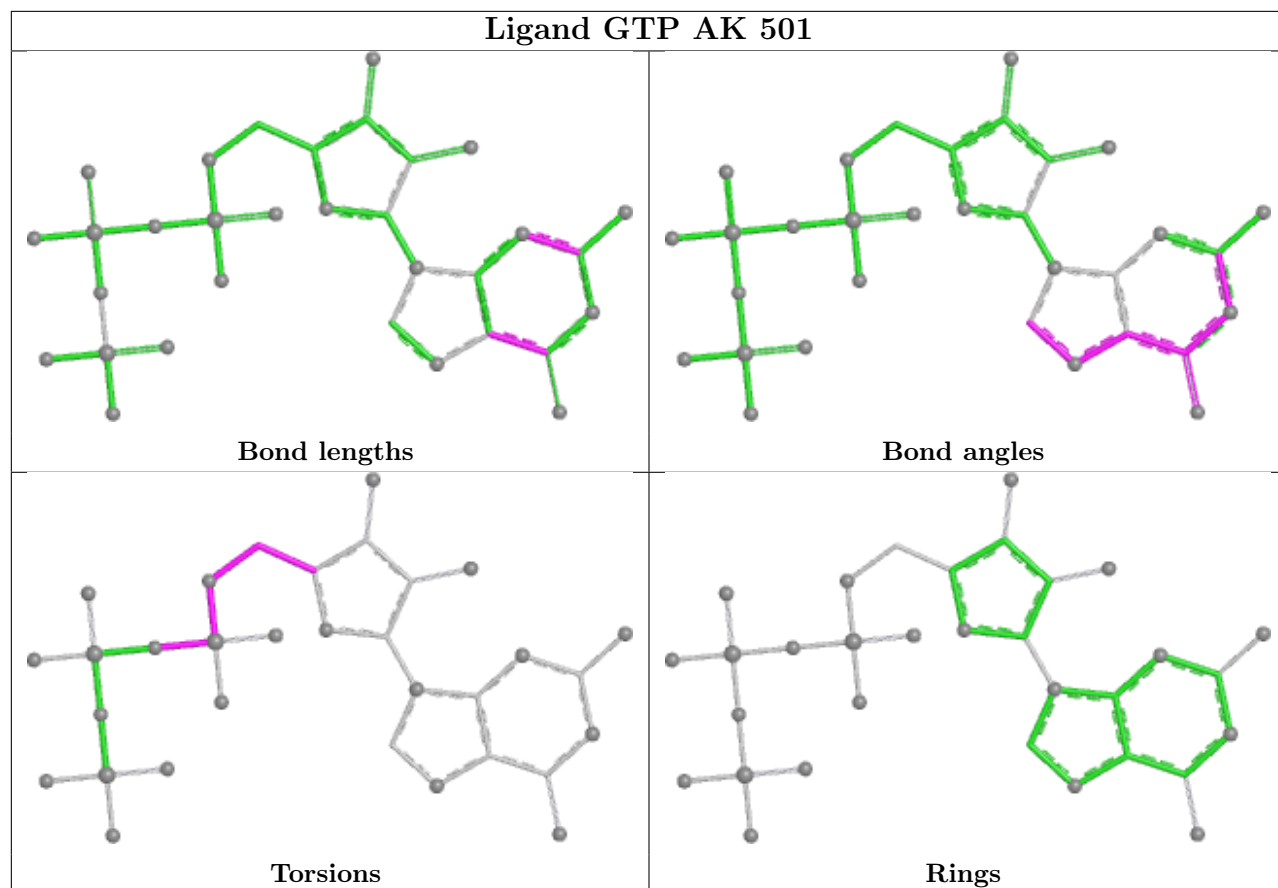


Torsions

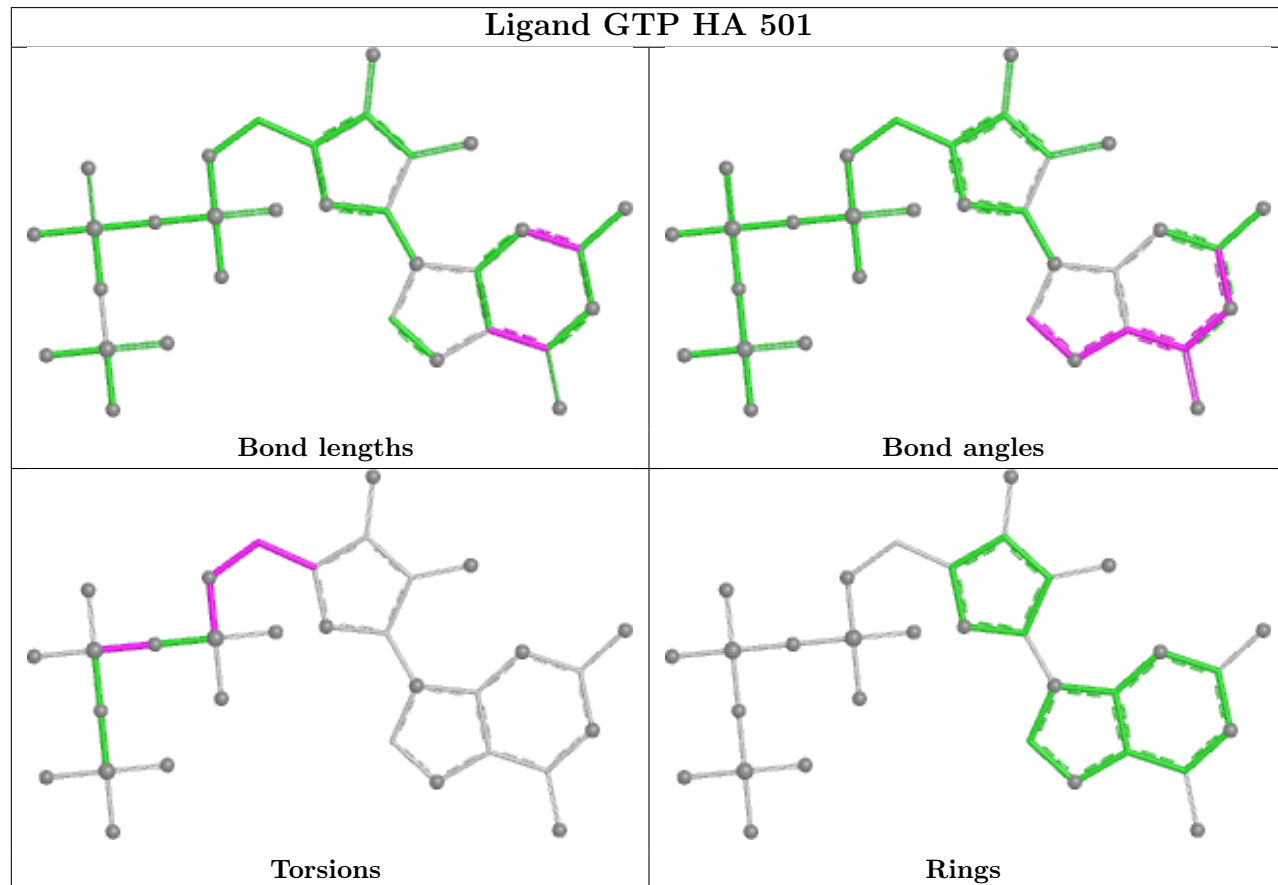


Rings

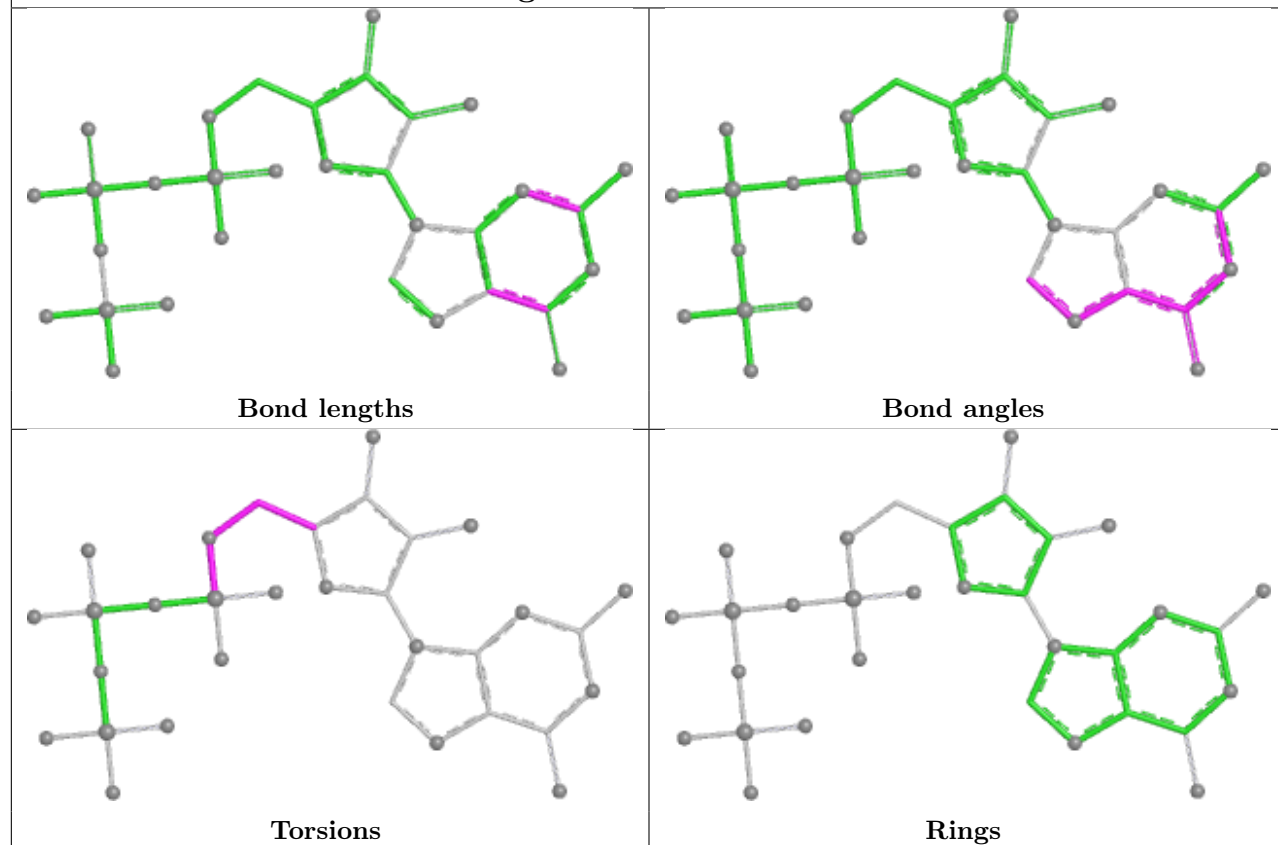
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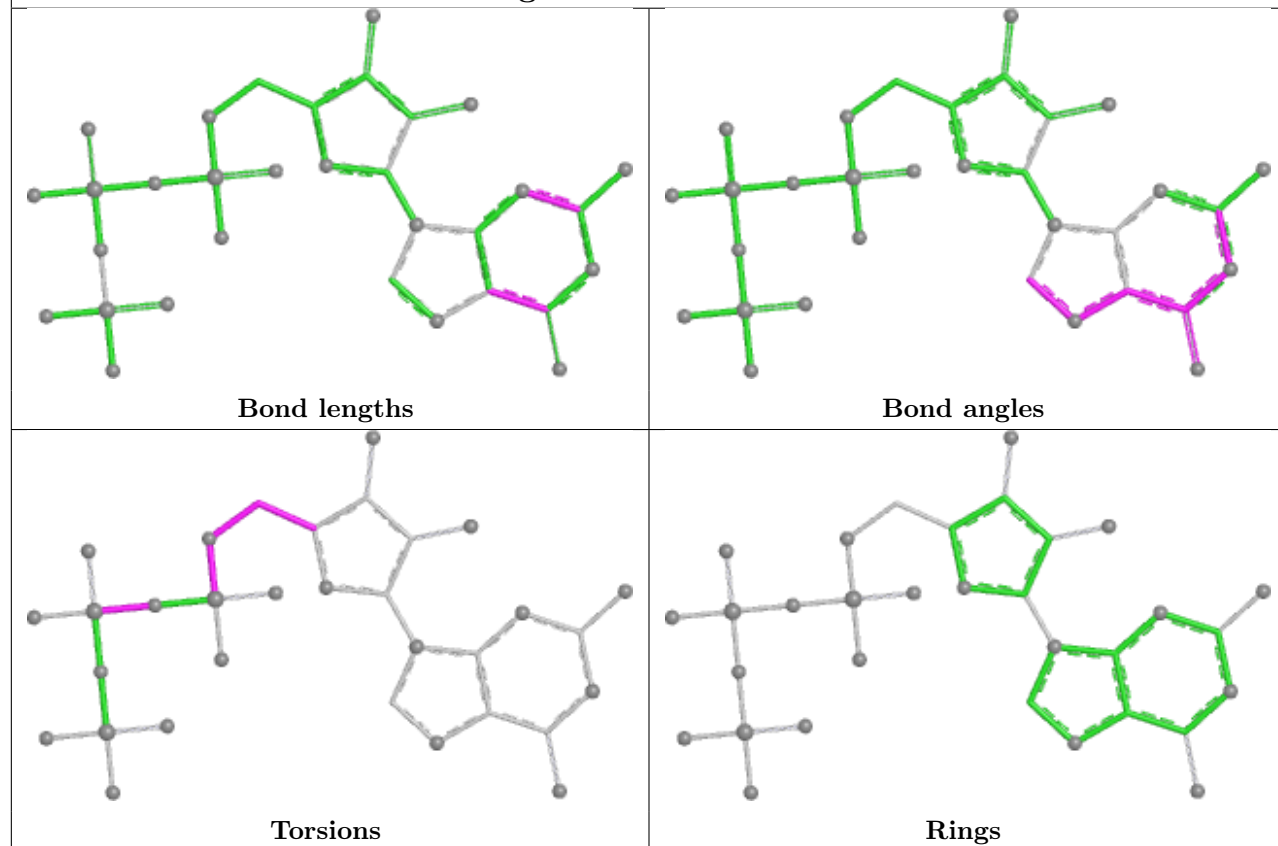
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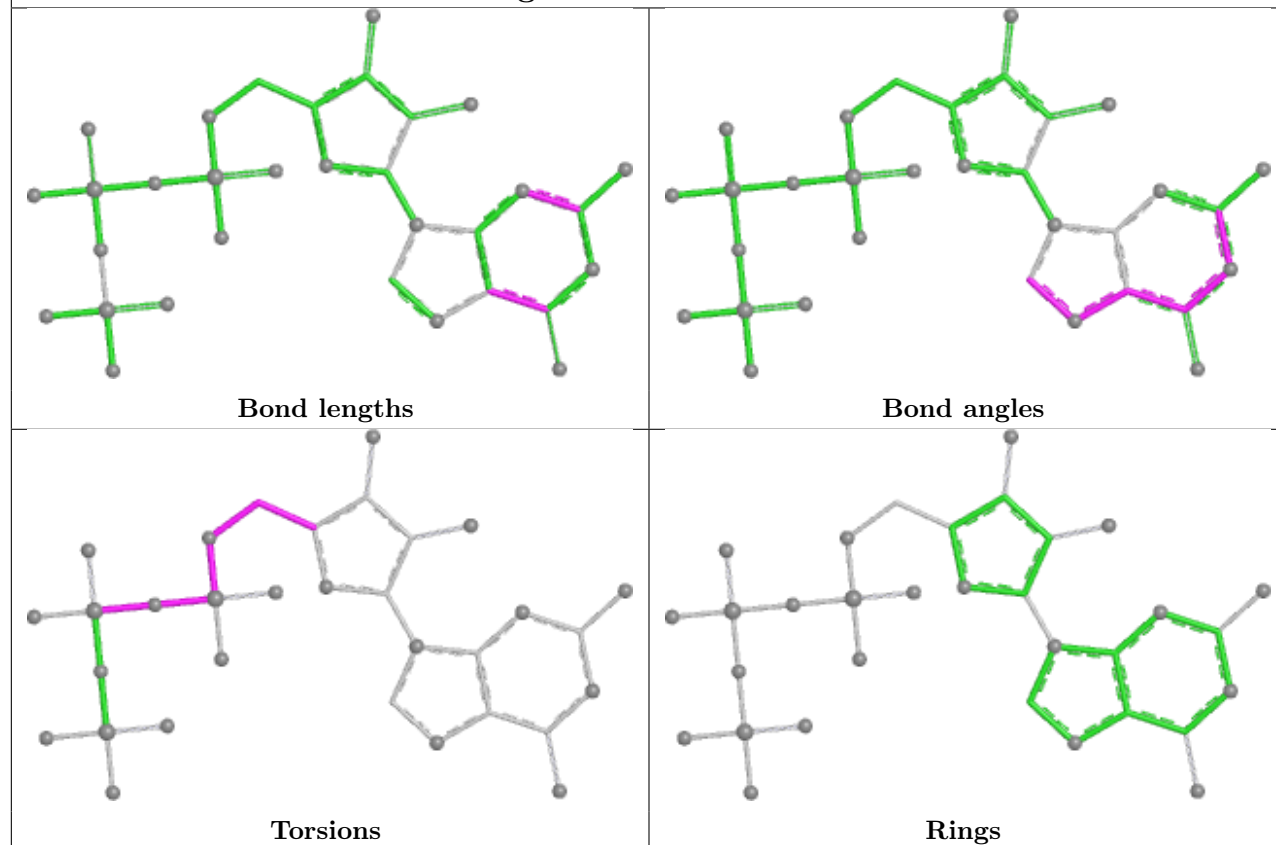
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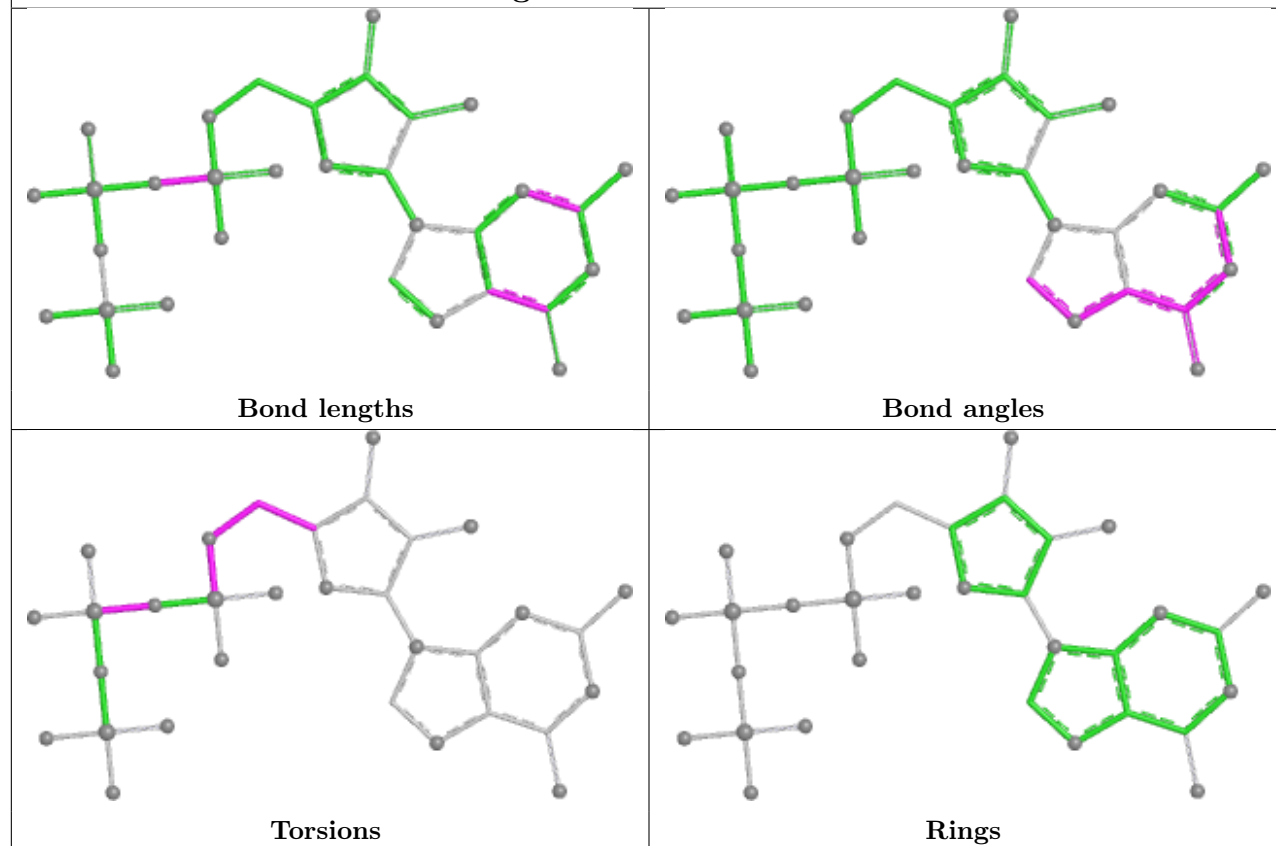
Ligand GTP FG 501



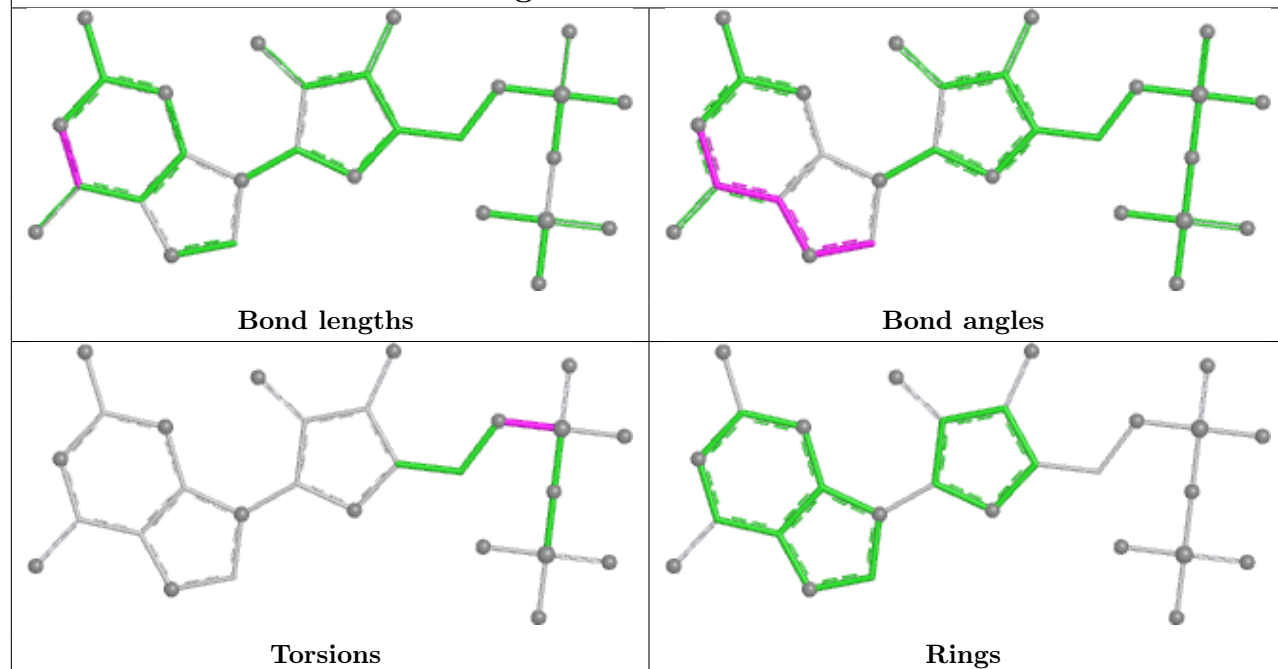
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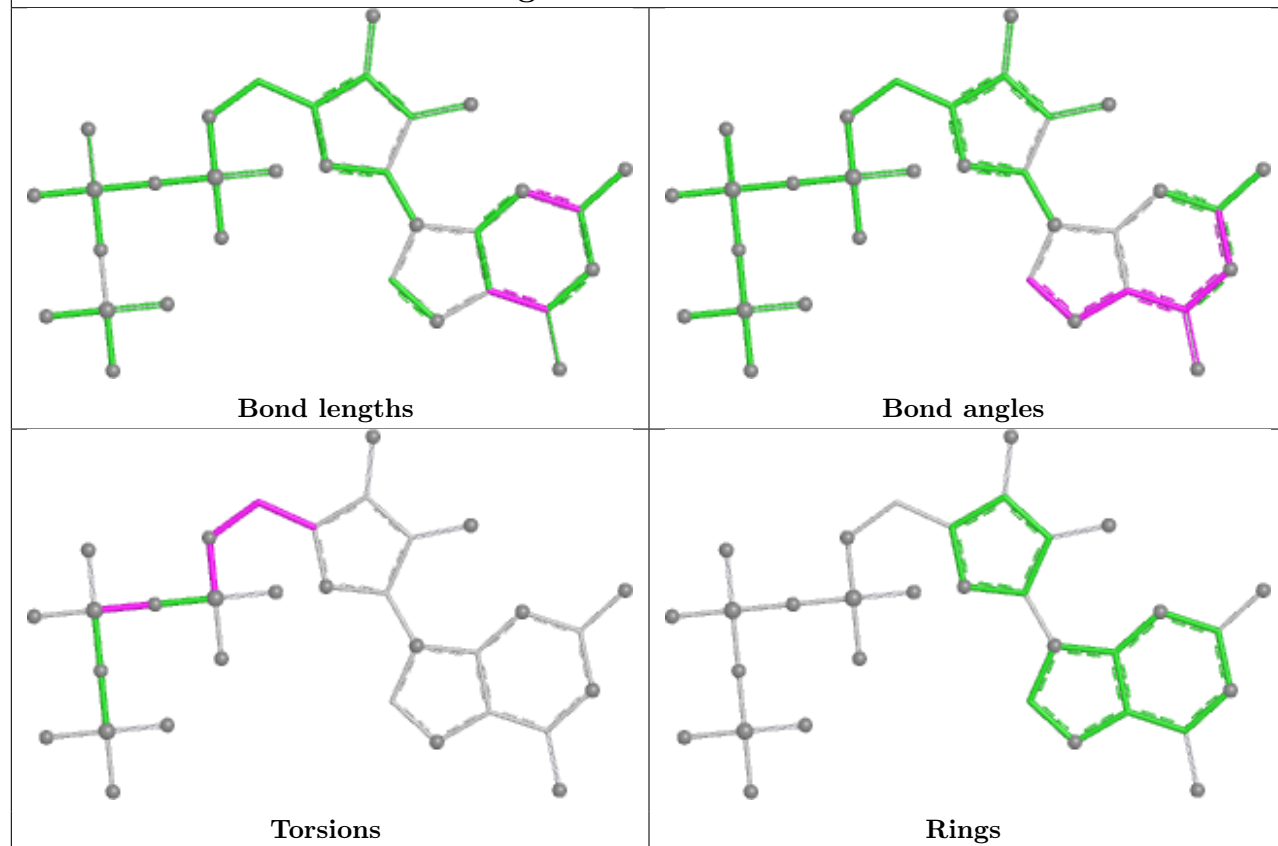
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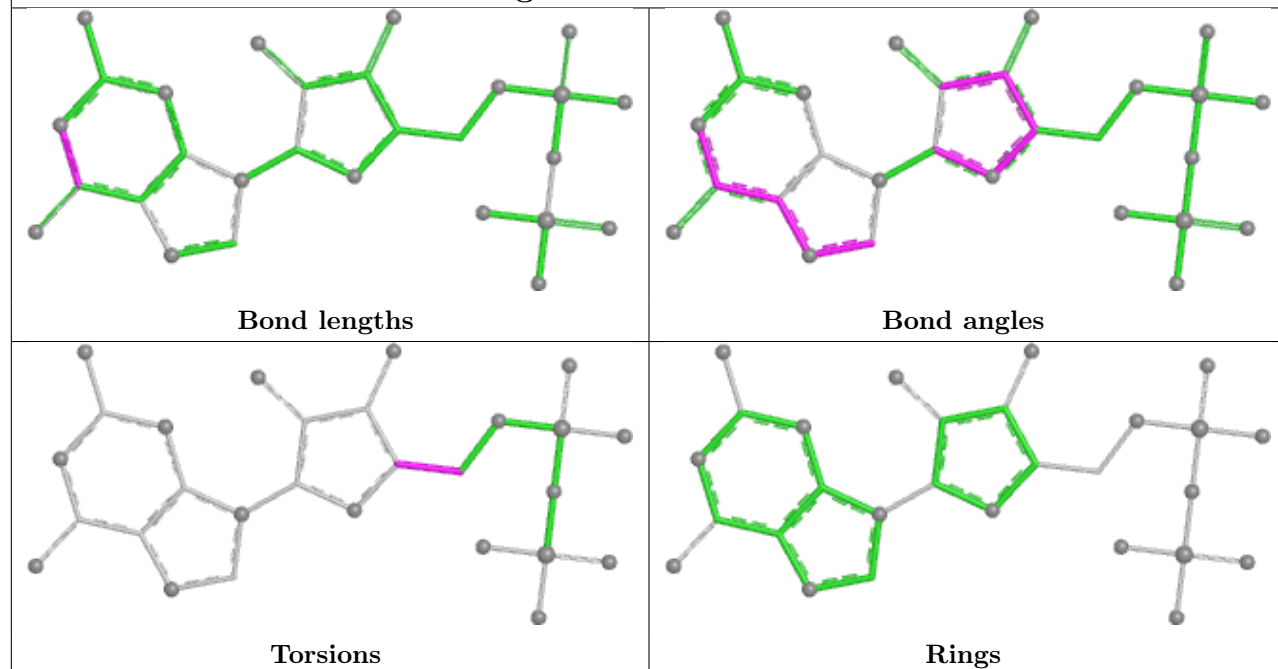
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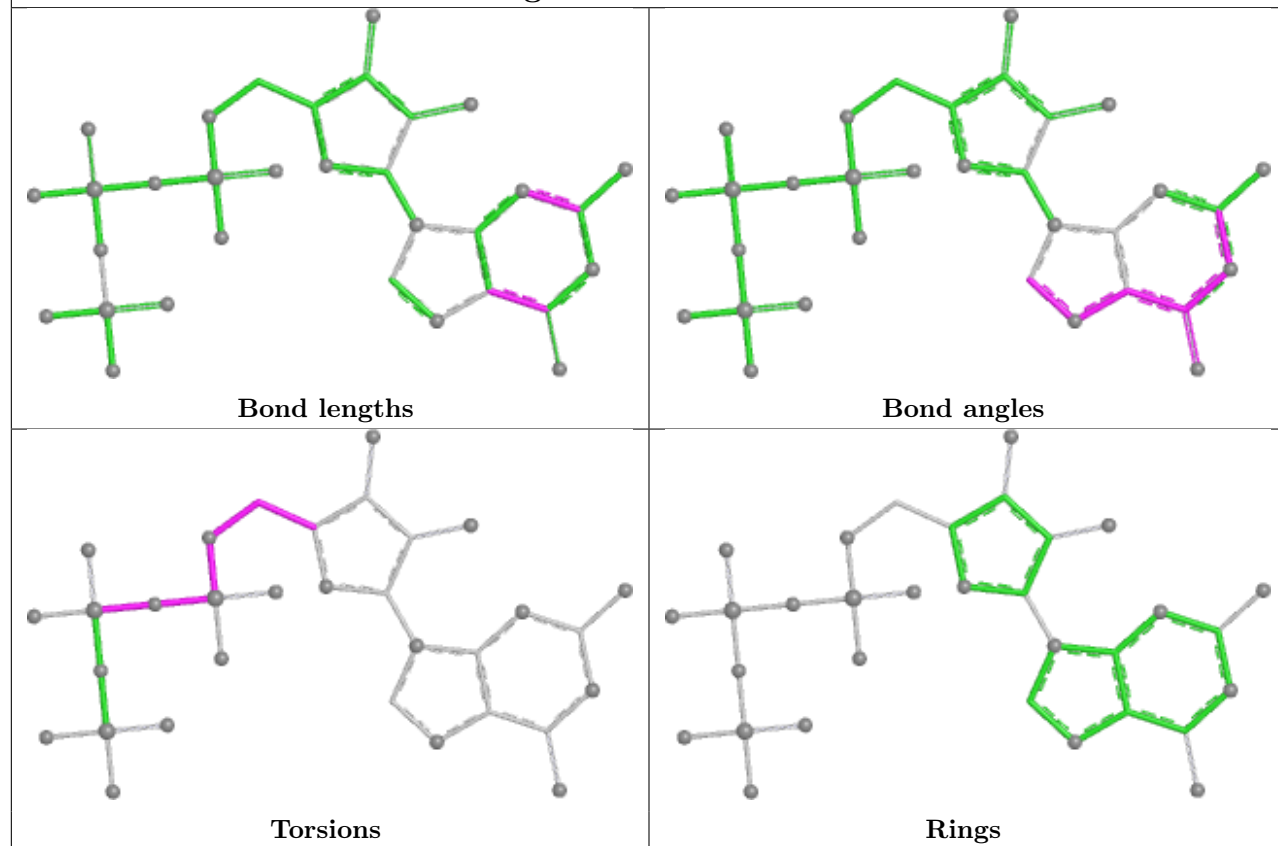
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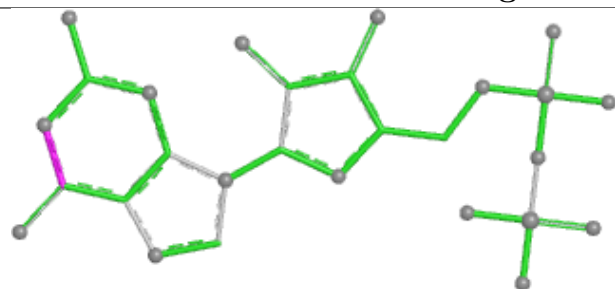
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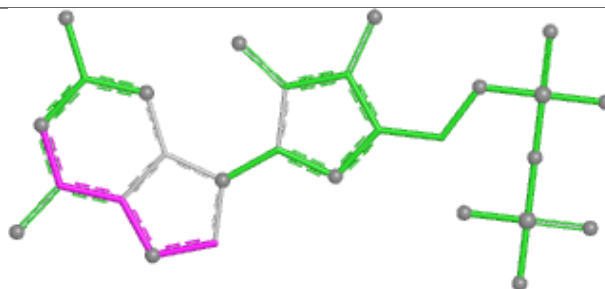
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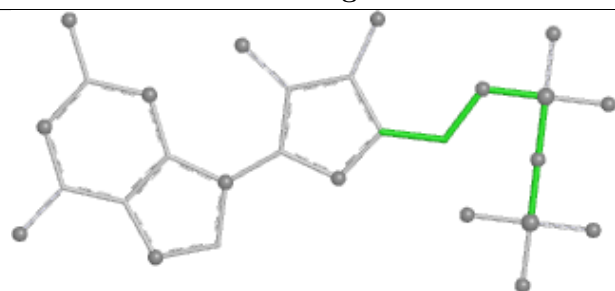
Ligand GDP RH 501



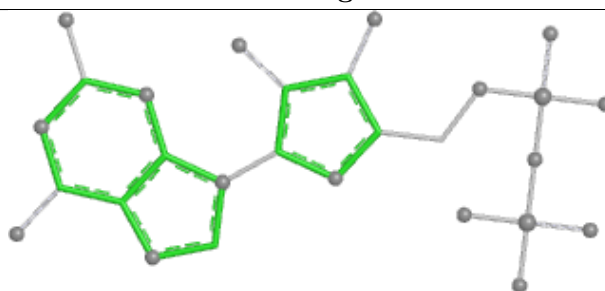
Bond lengths



Bond angles

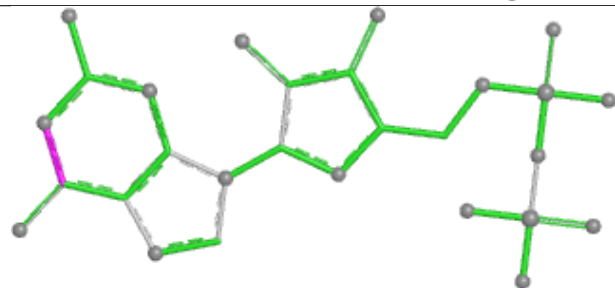


Torsions

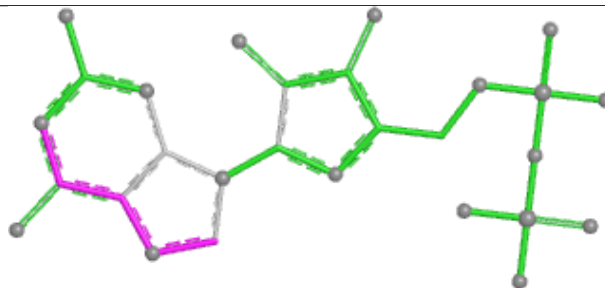


Rings

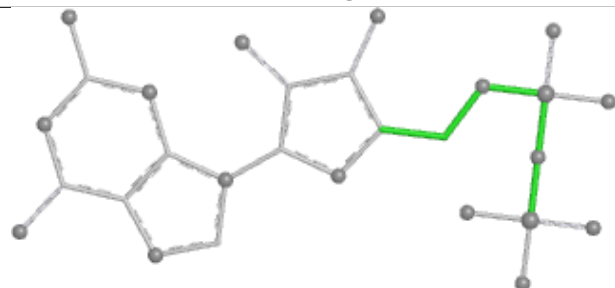
Ligand GDP UJ 501



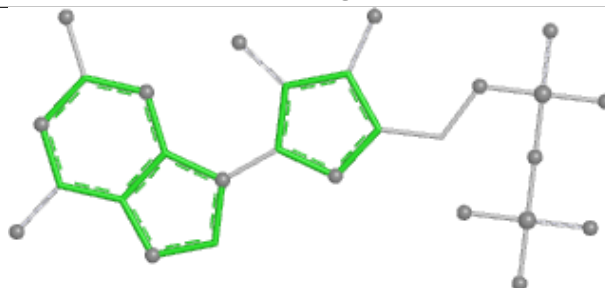
Bond lengths



Bond angles

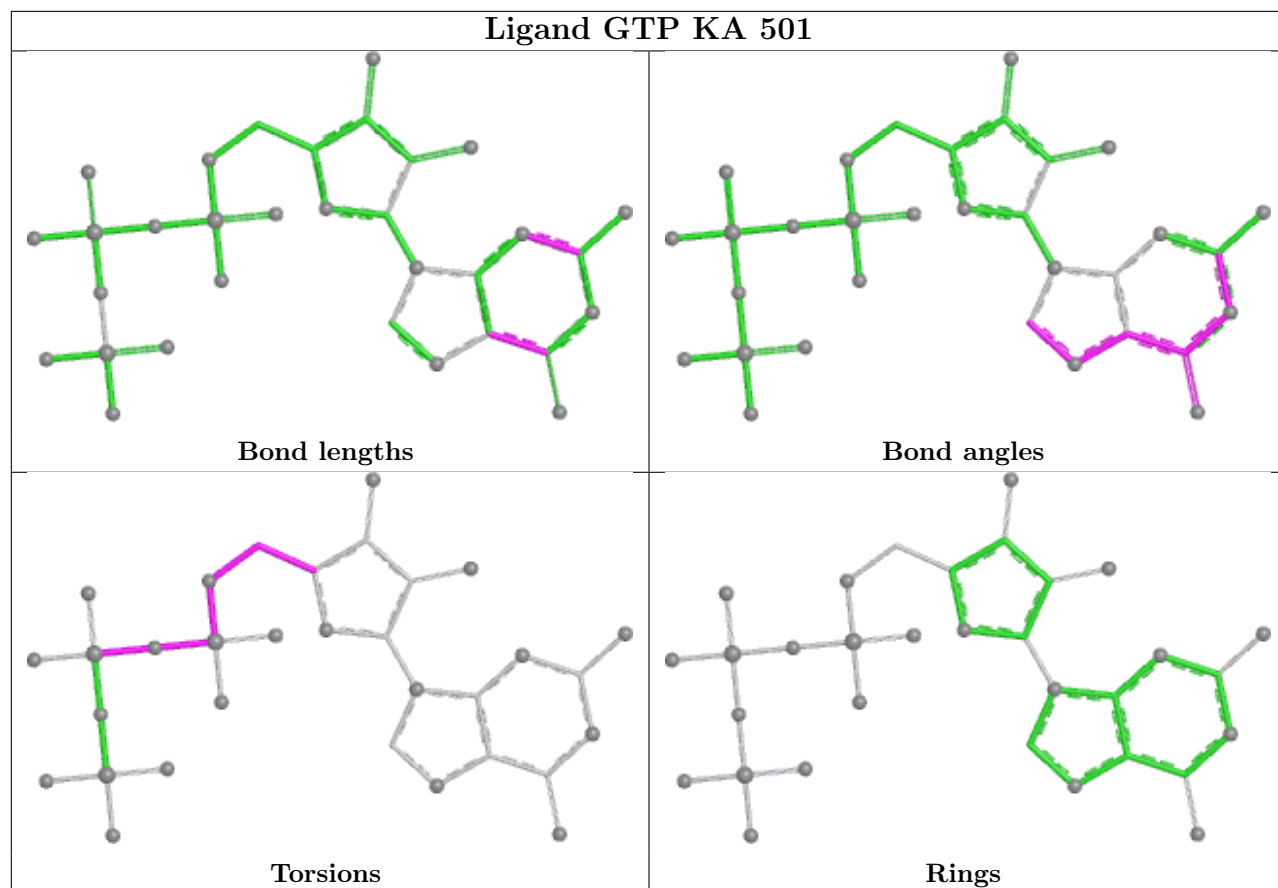


Torsions

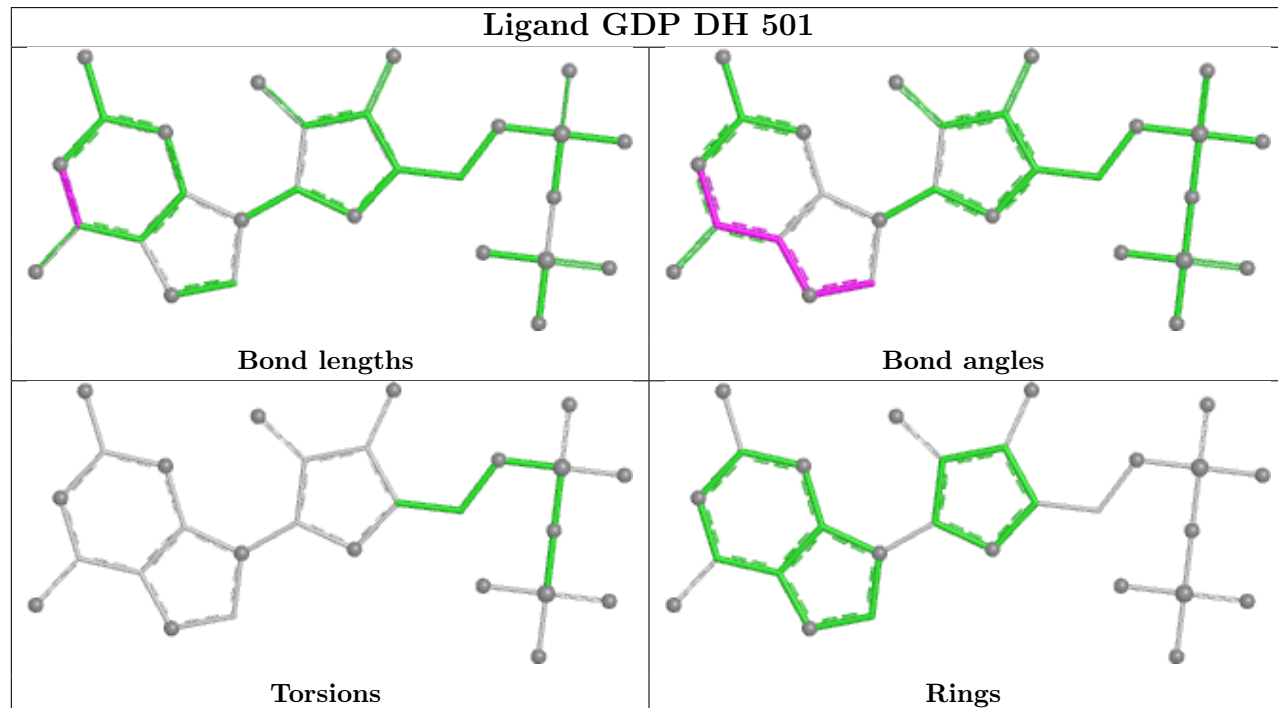


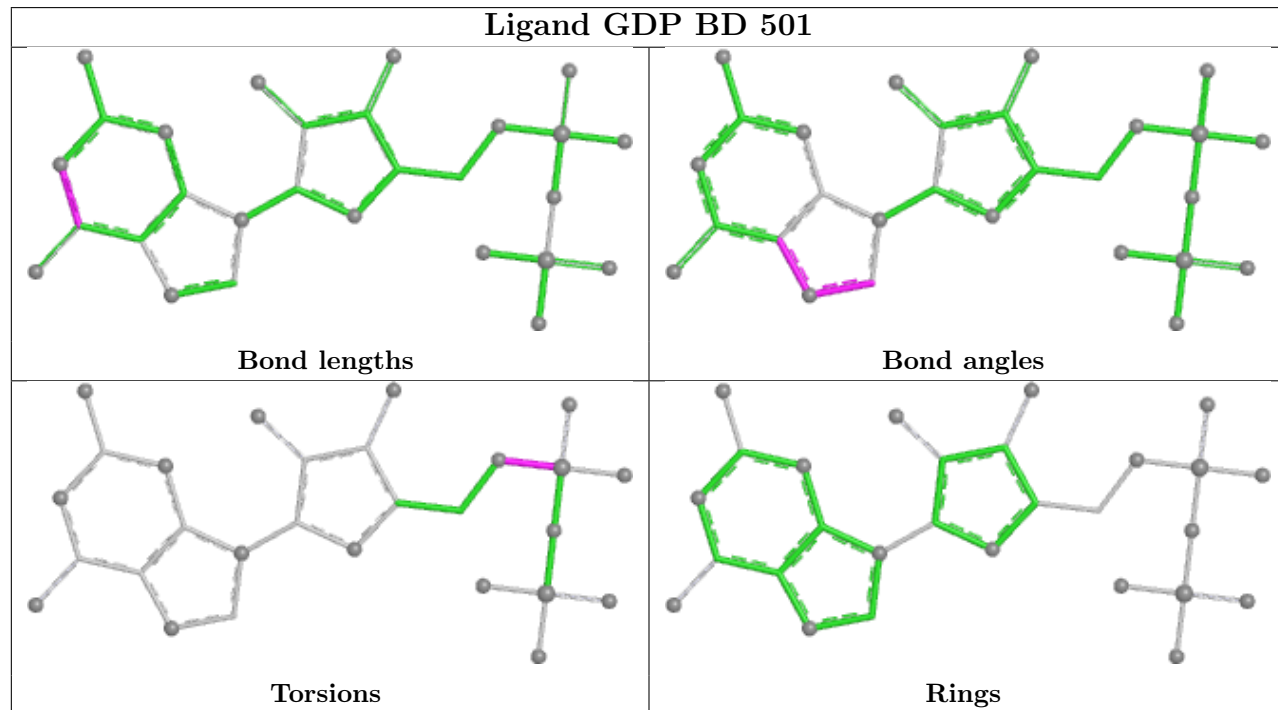
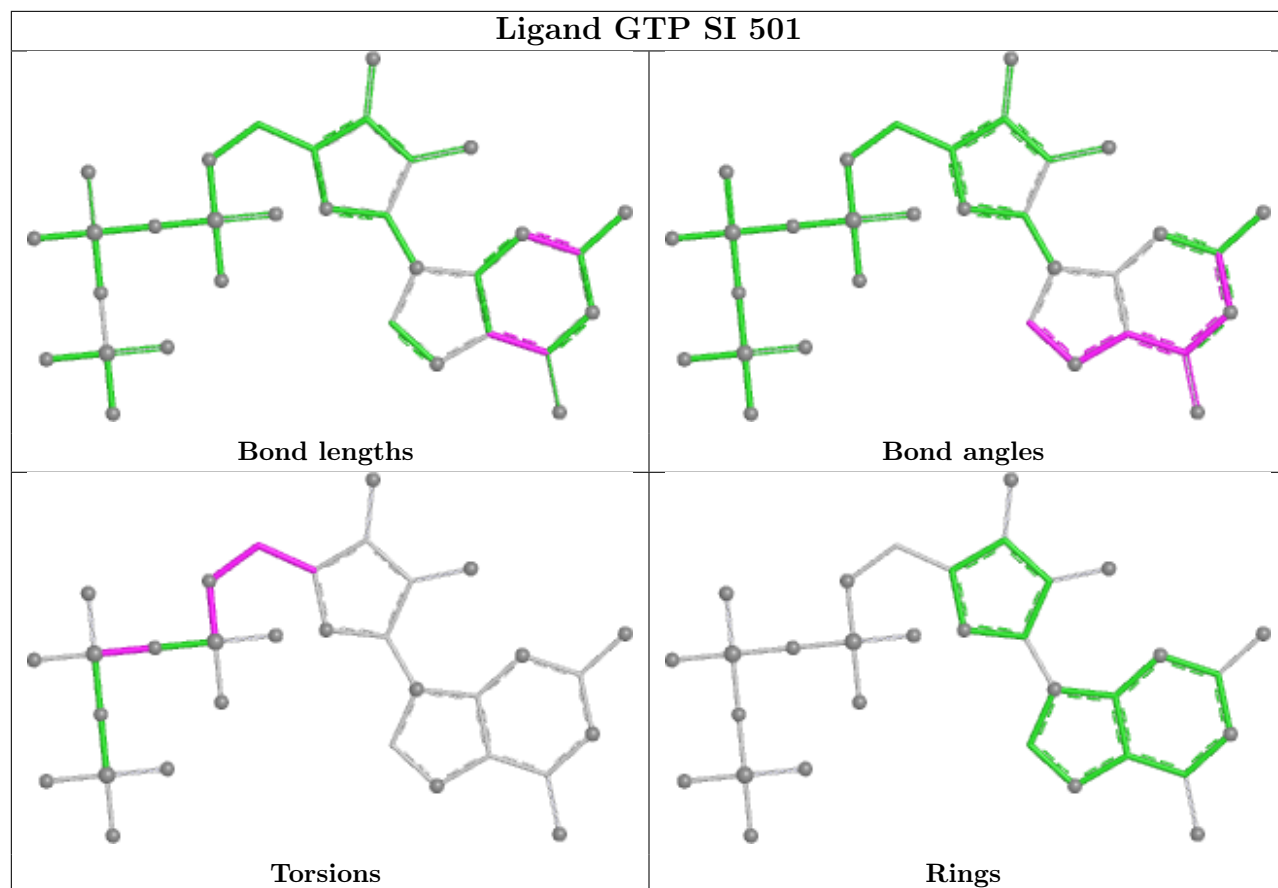
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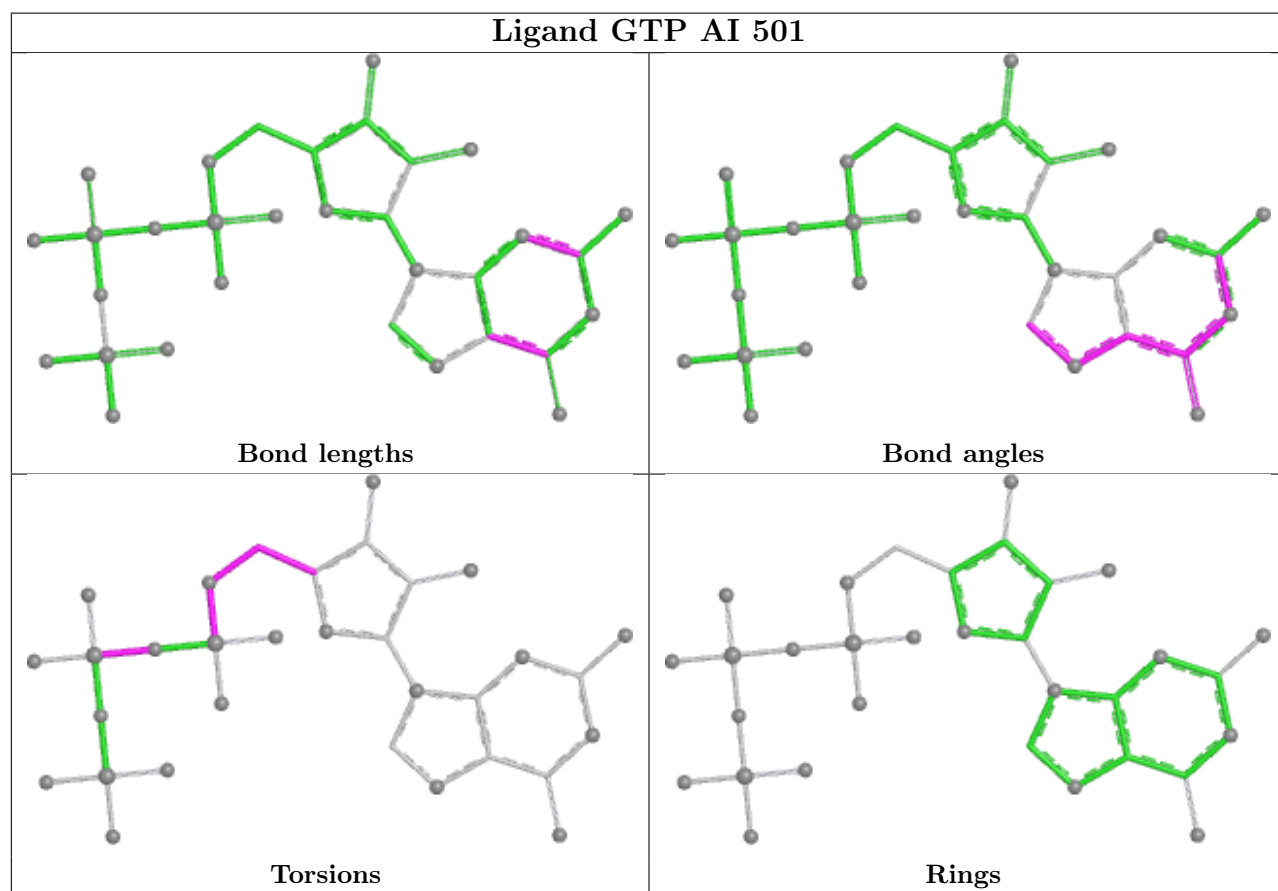
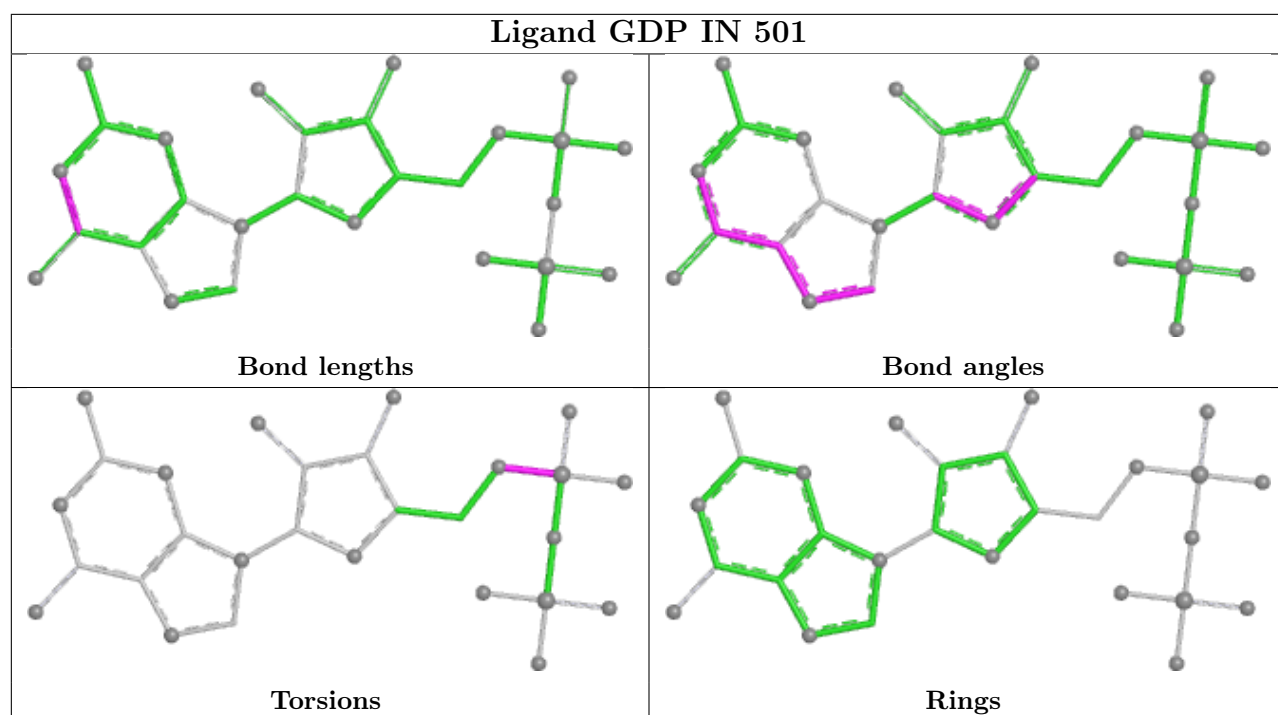
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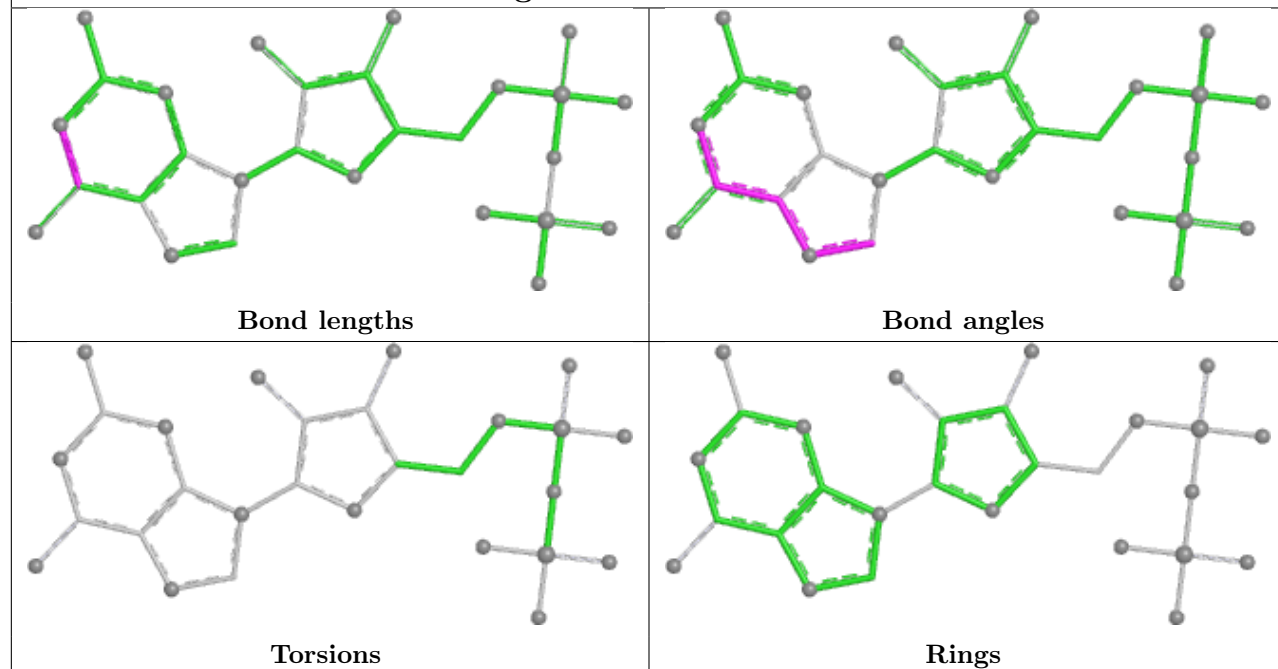
Ligand GDP DH 501



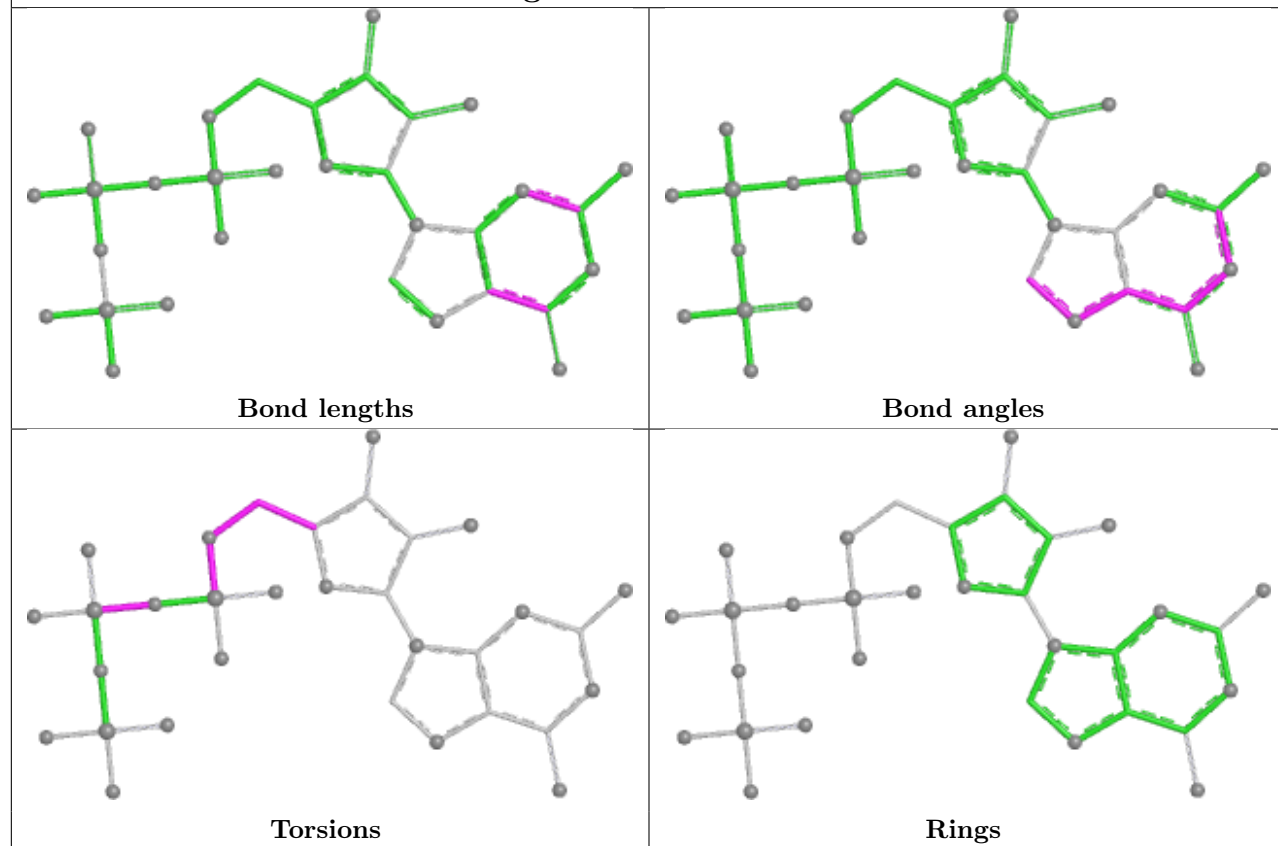




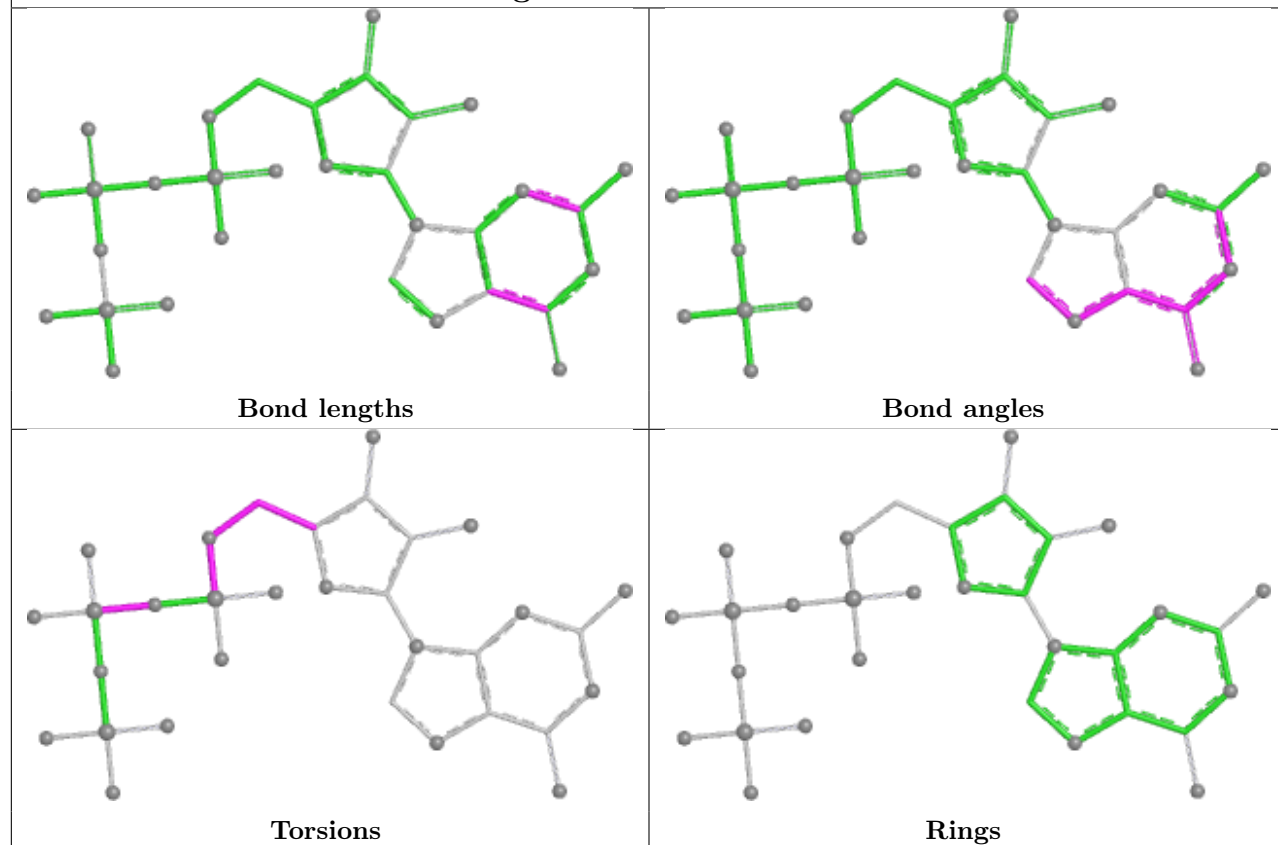
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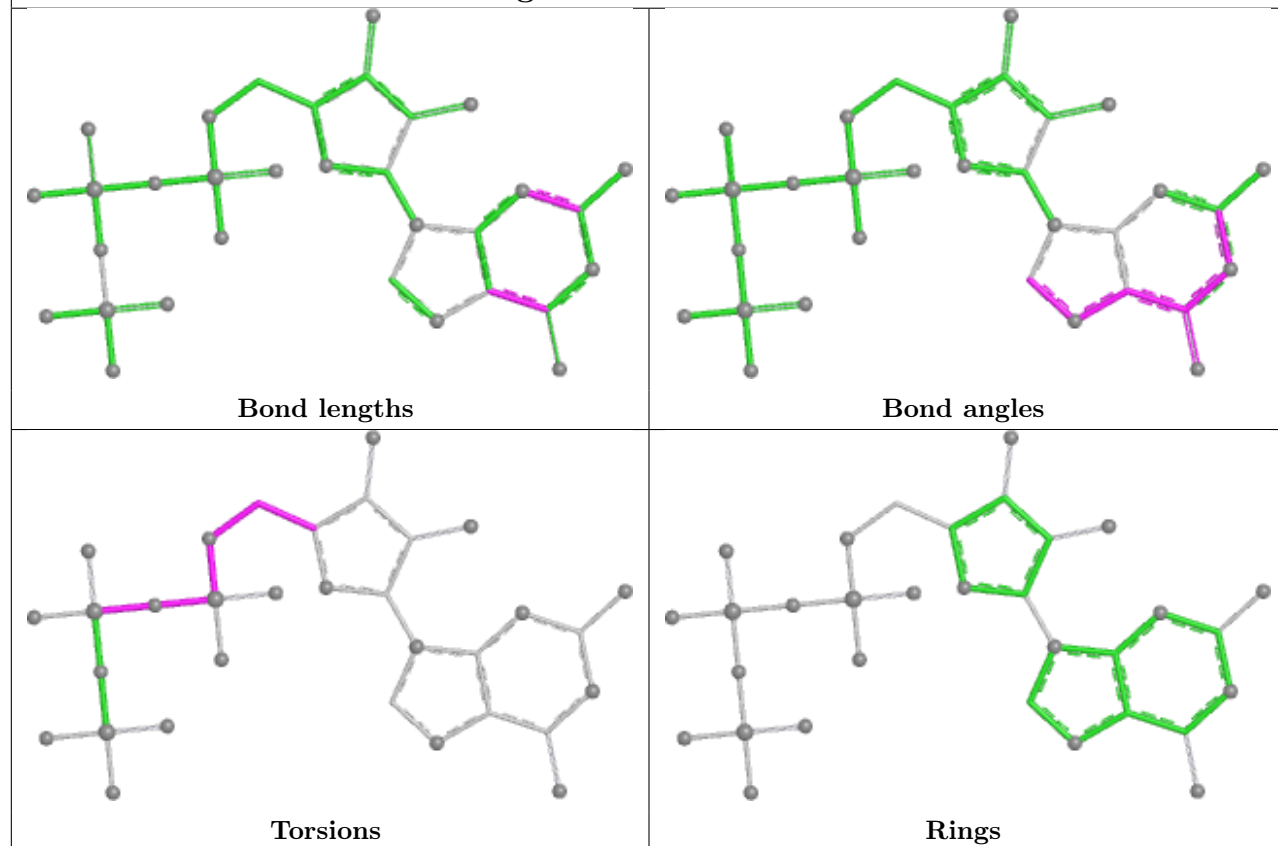
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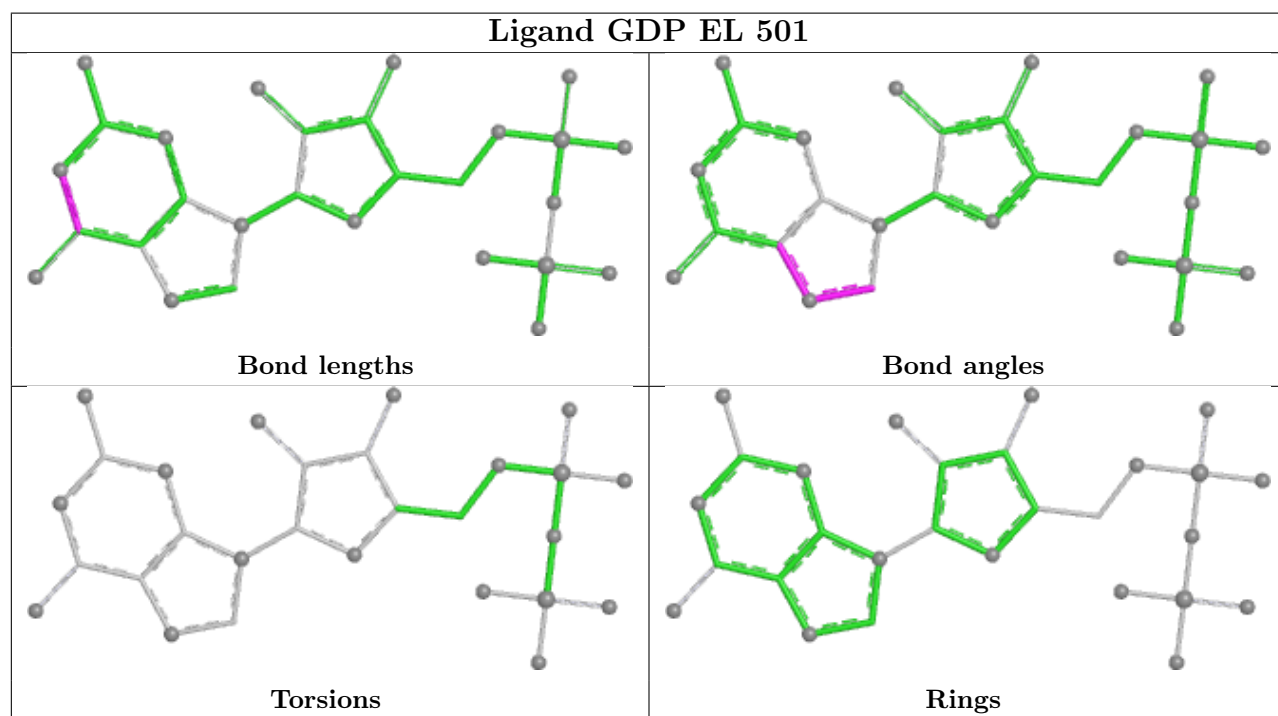
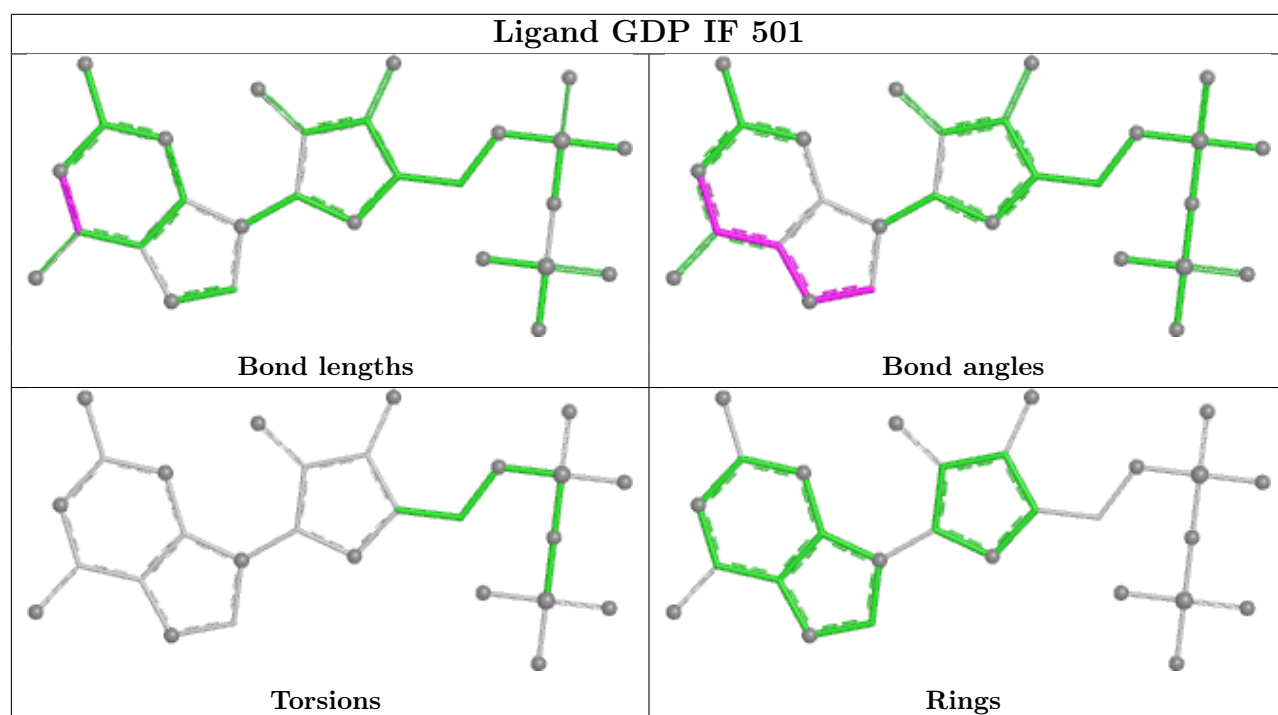


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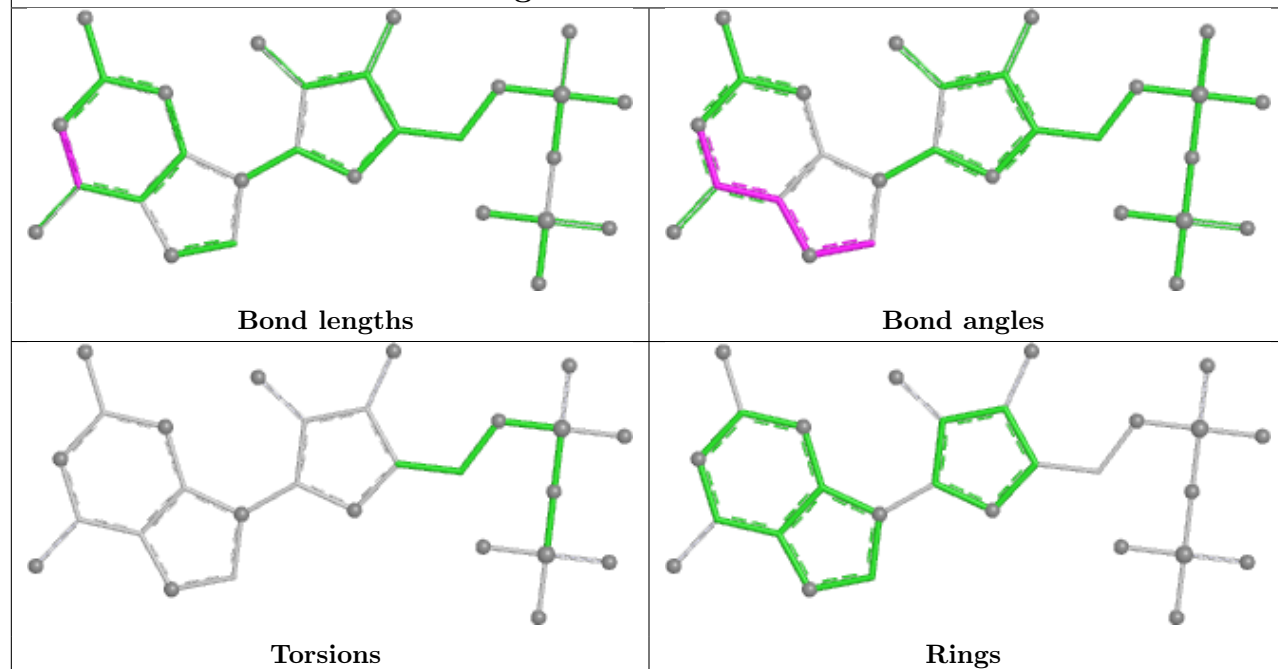


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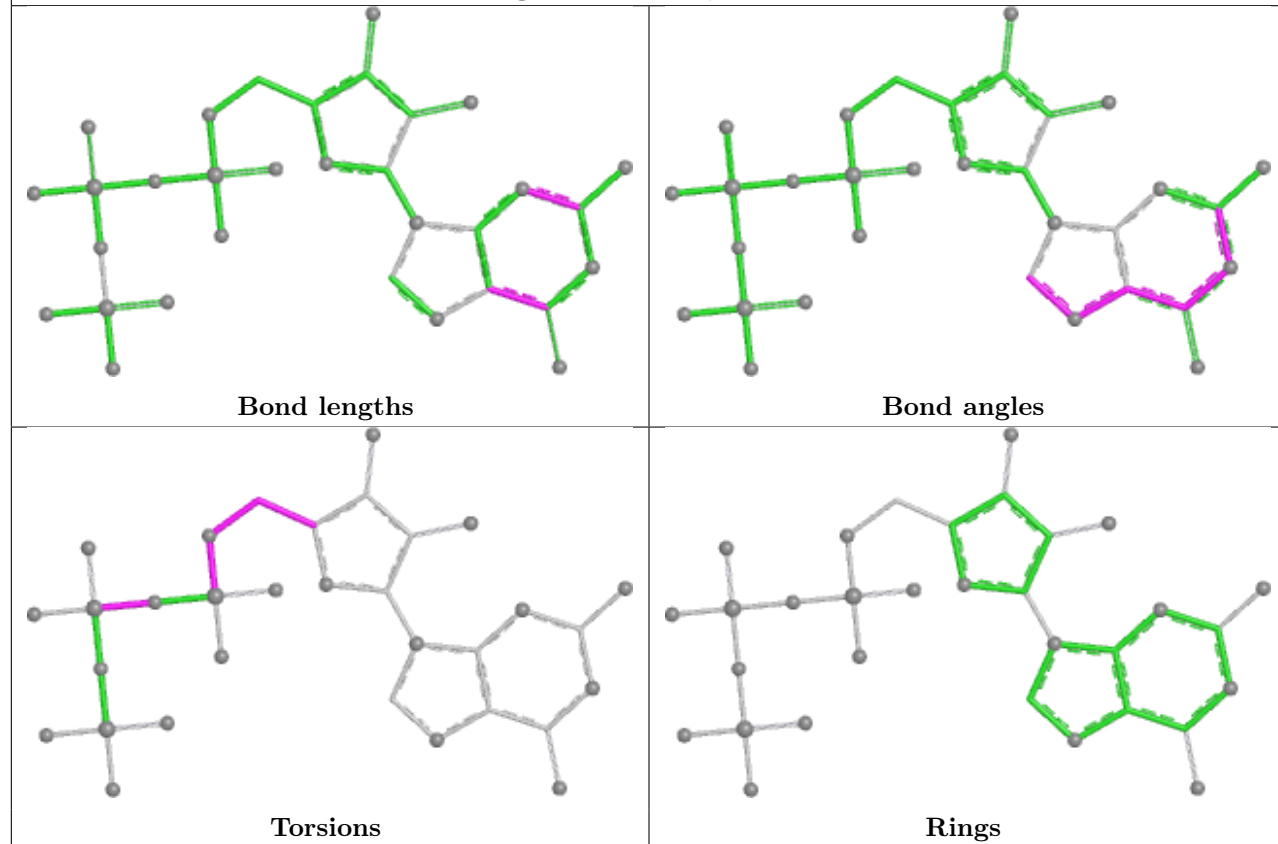




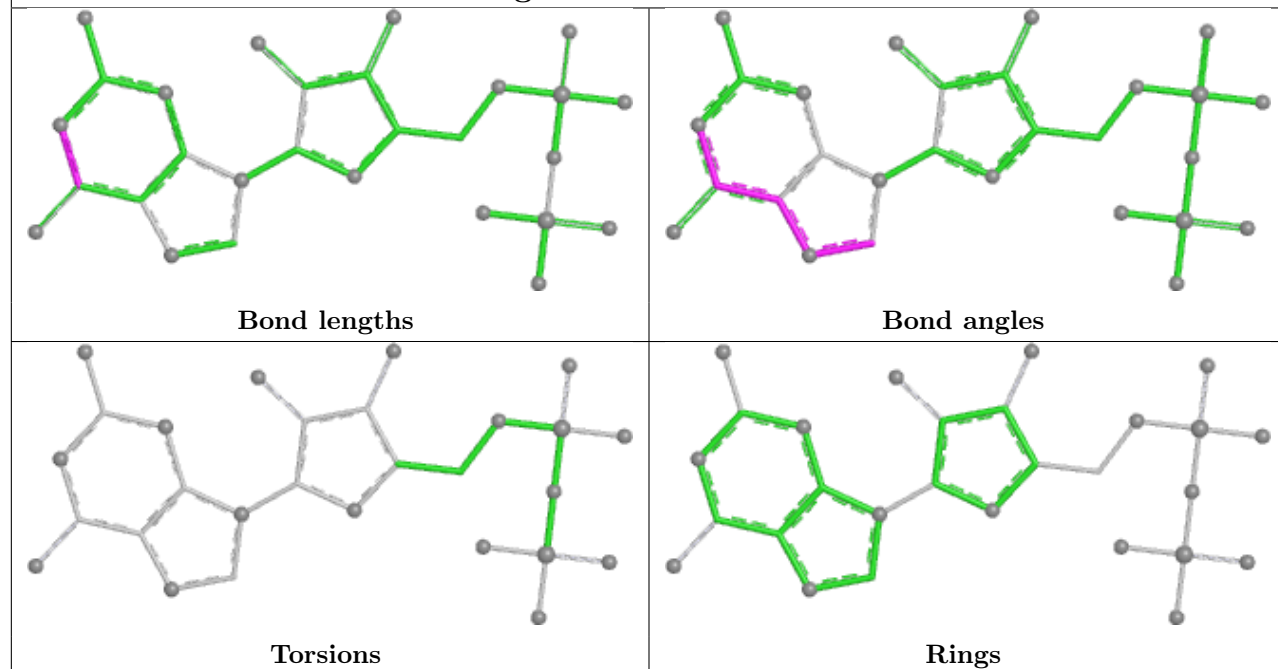
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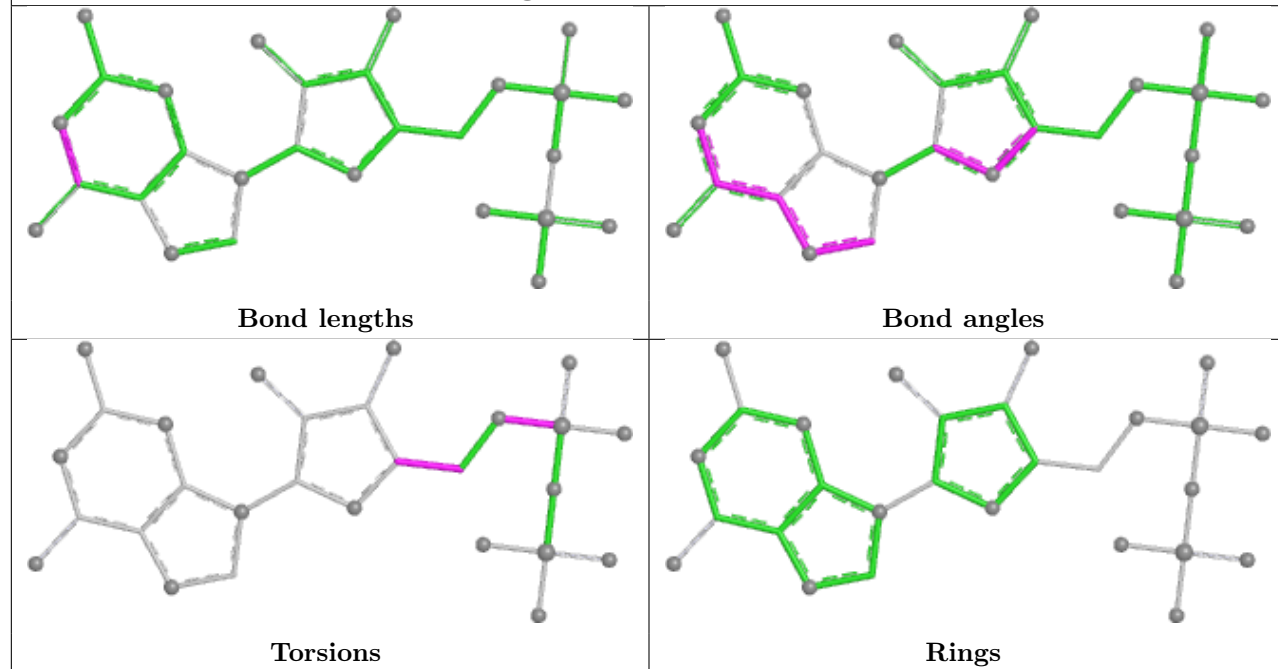
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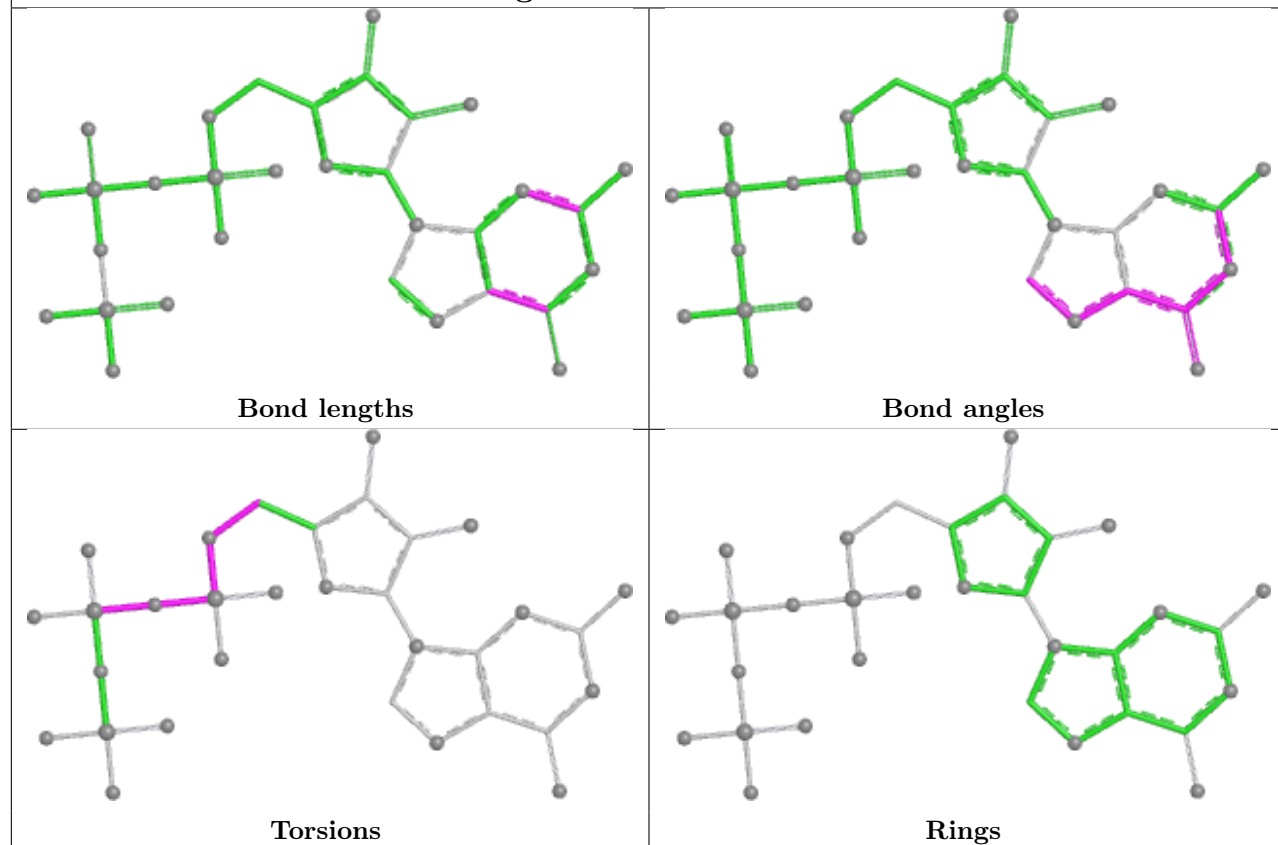
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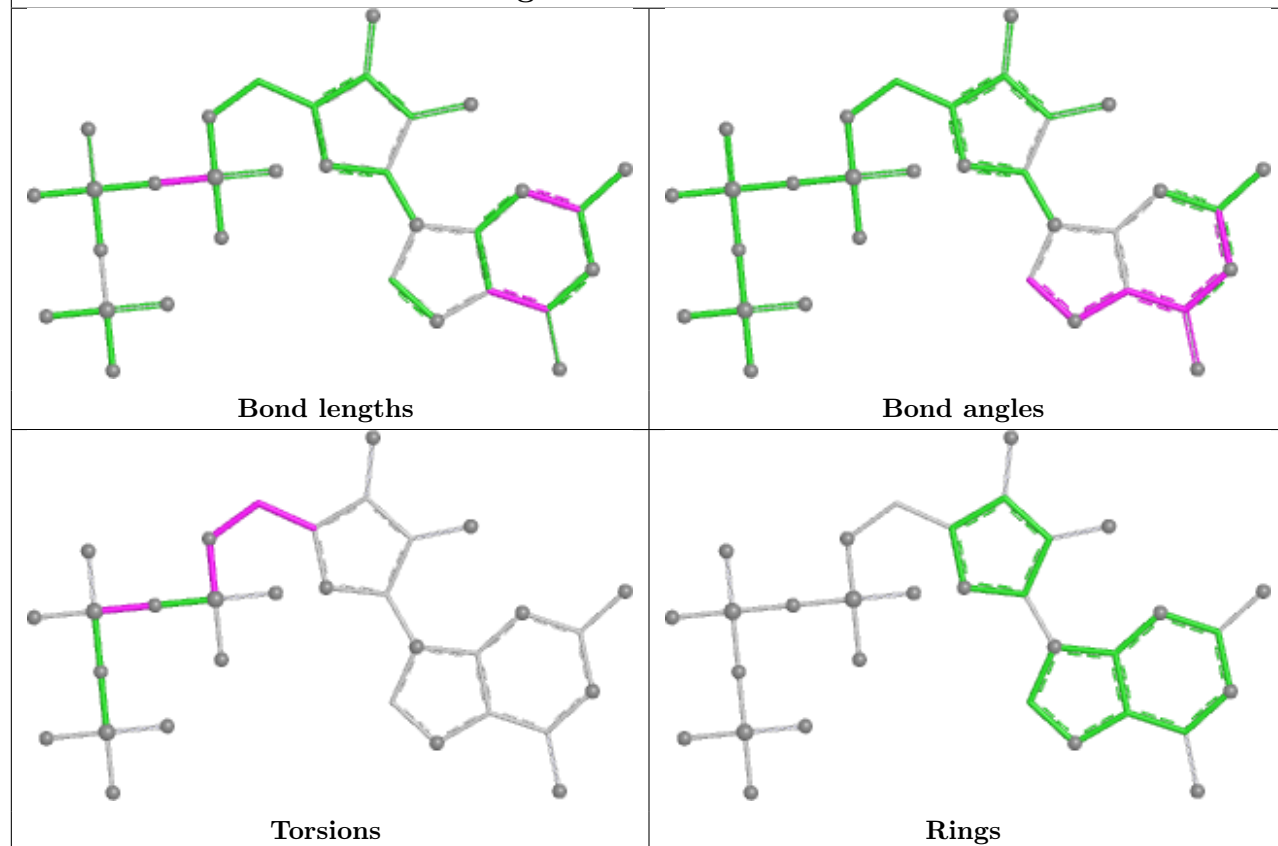
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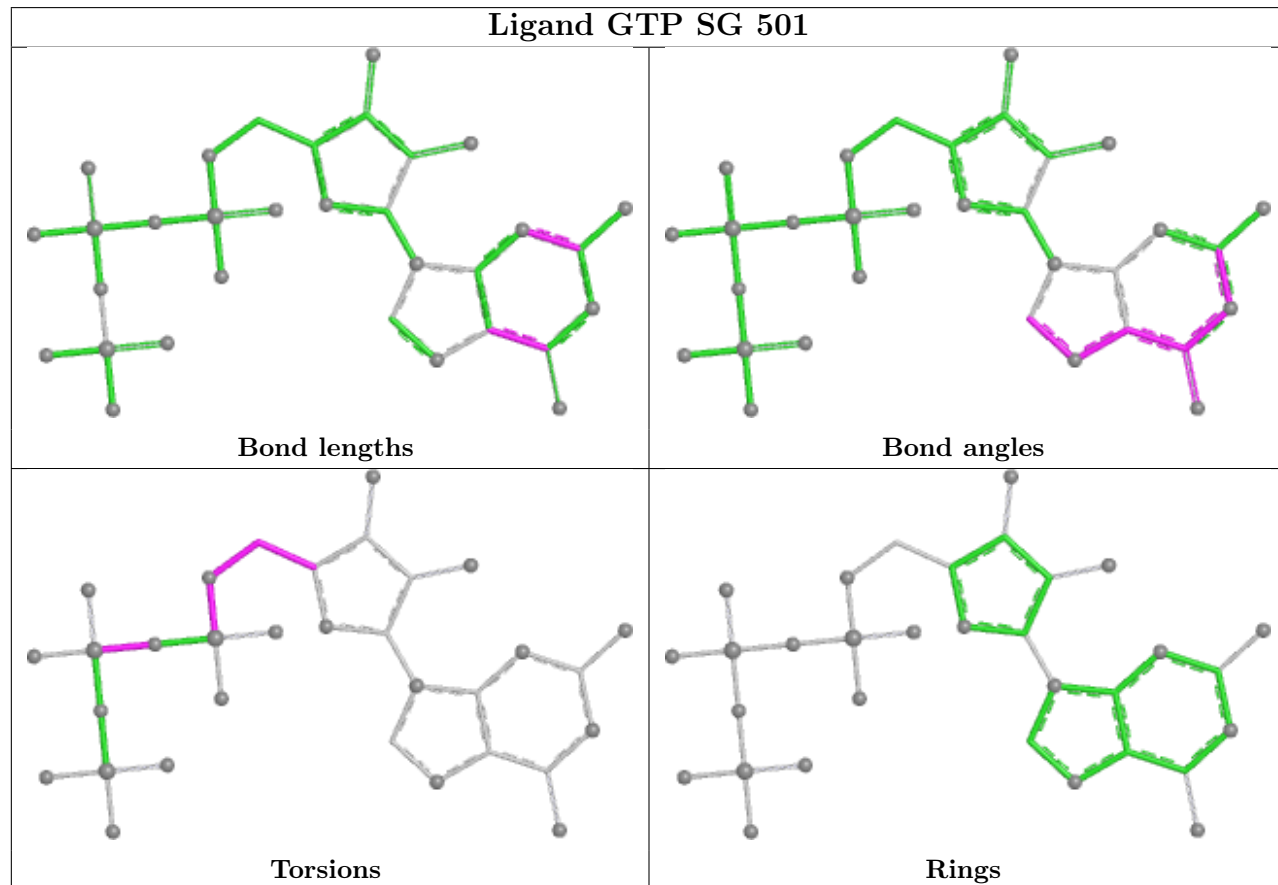
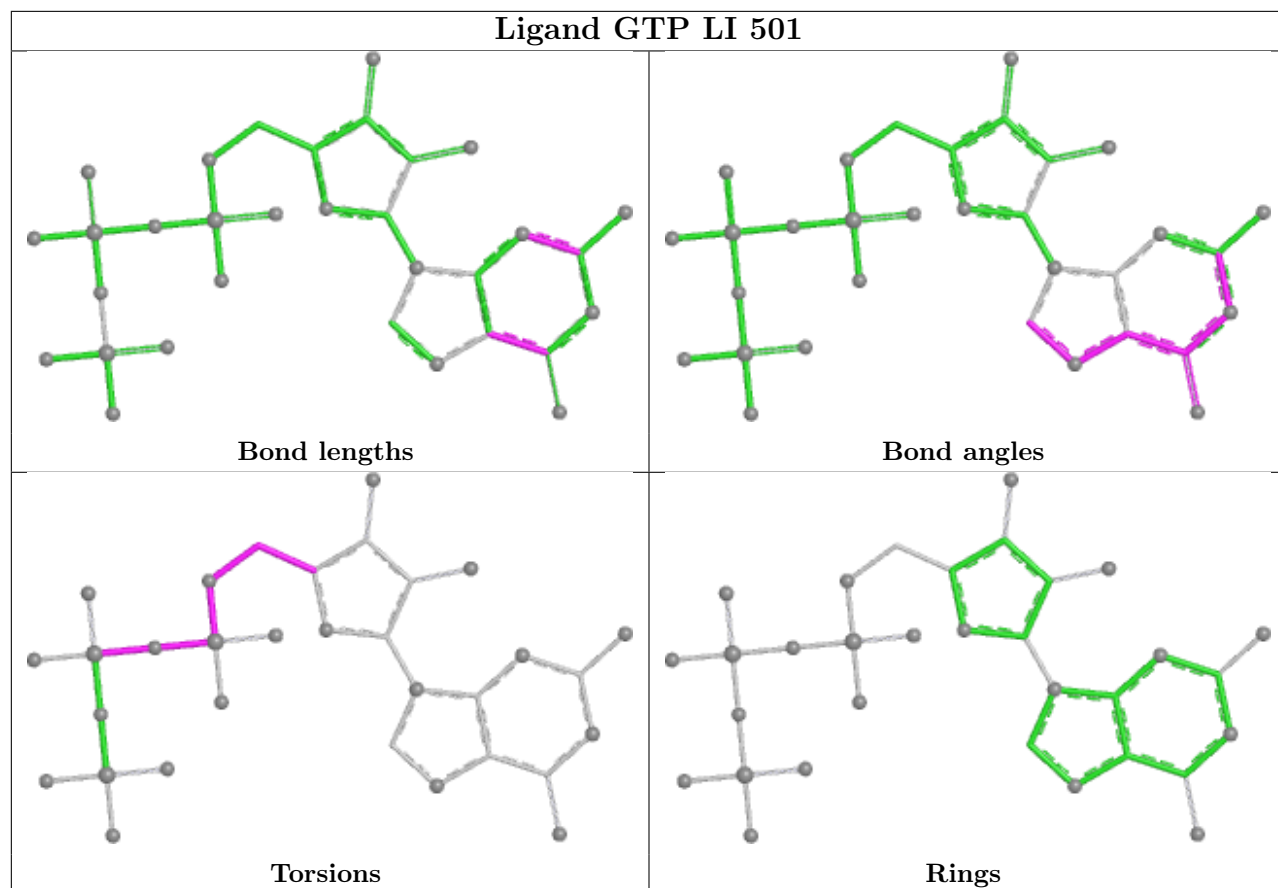


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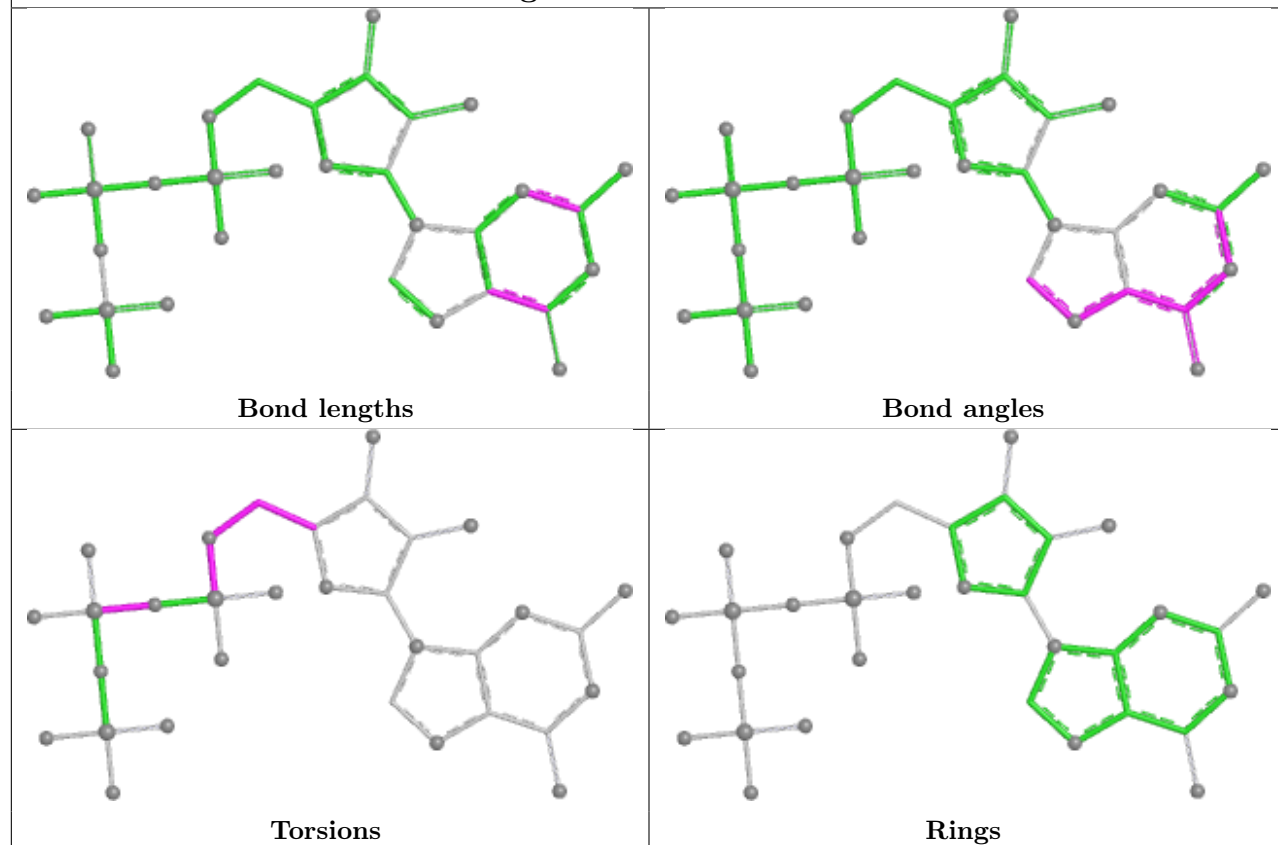


Ligand GTP DA 501

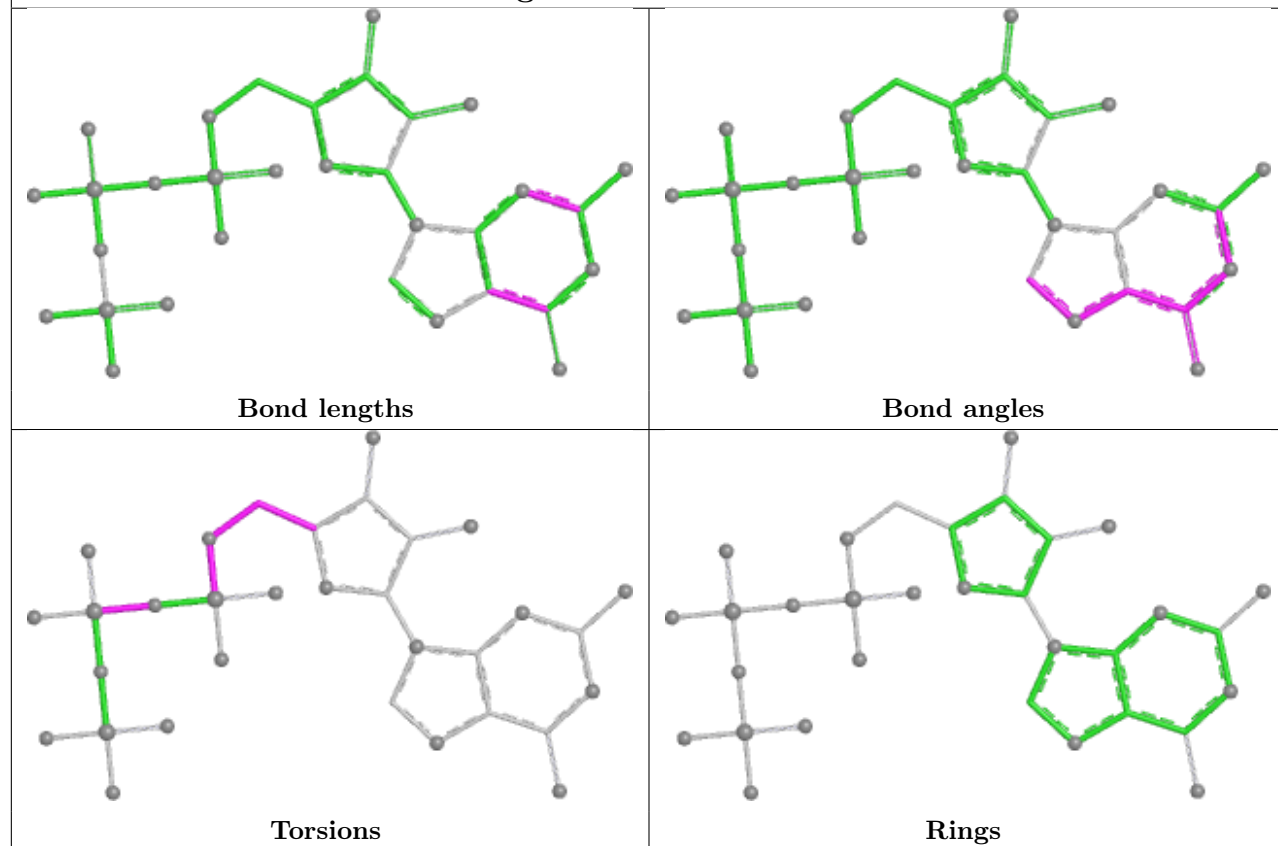


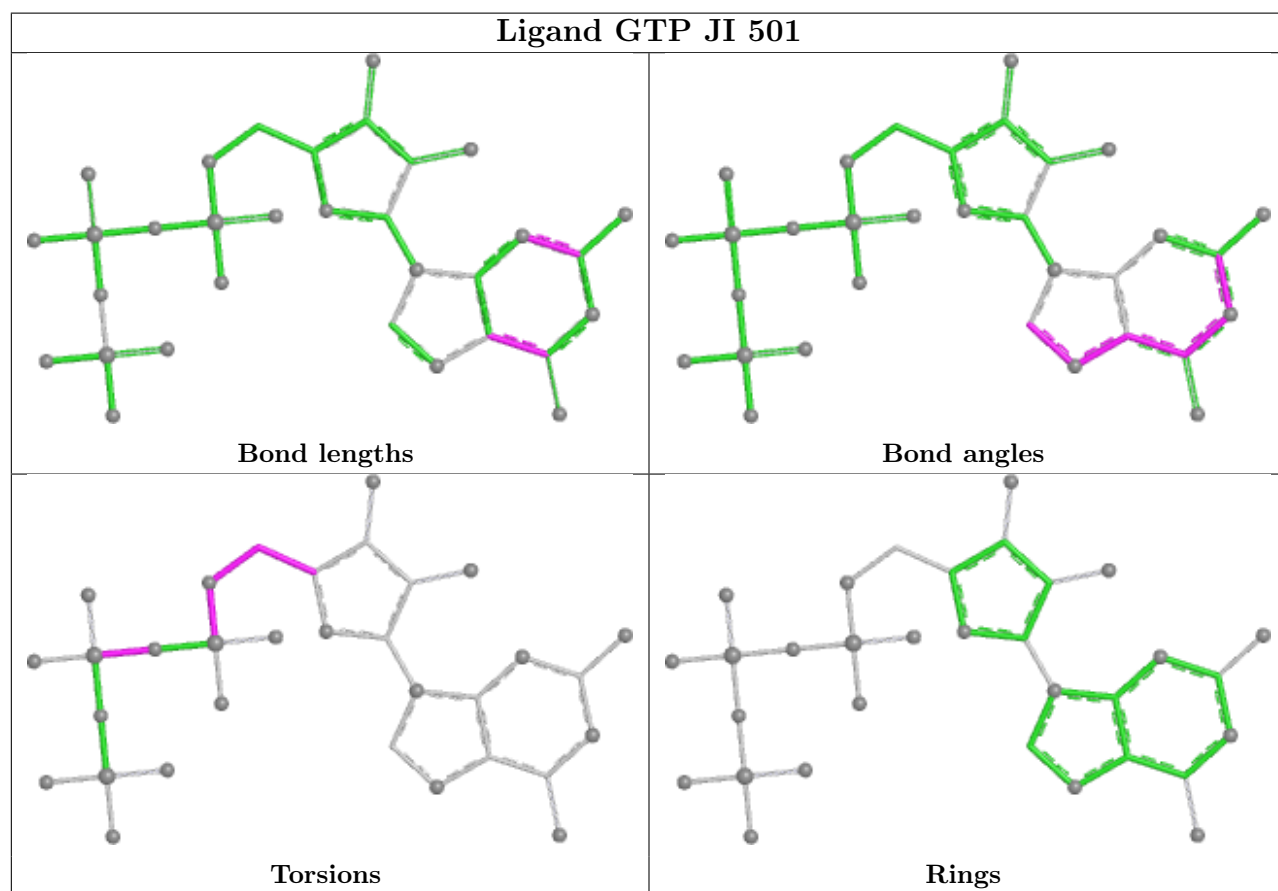
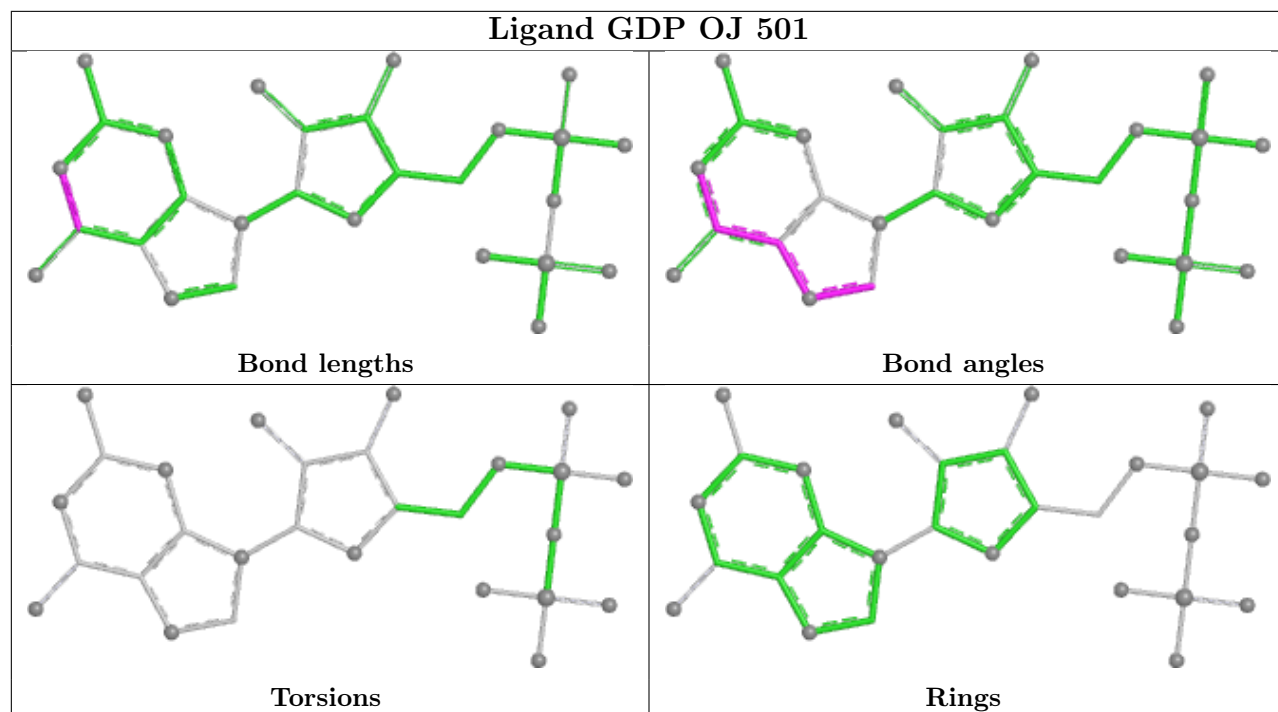


Ligand GTP EE 501

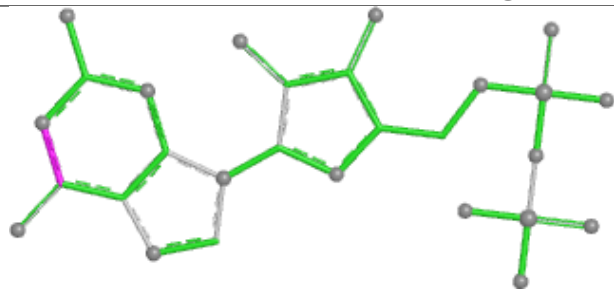


Ligand GTP AG 501

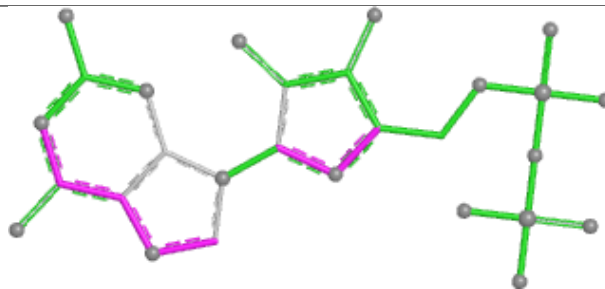




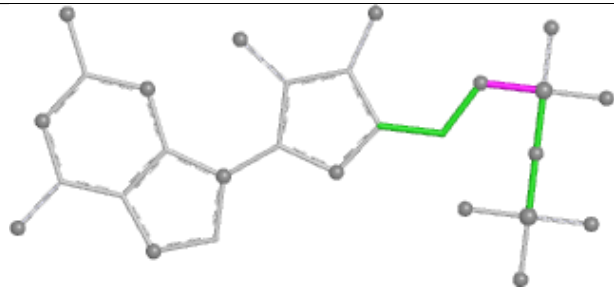
Ligand GDP FD 501



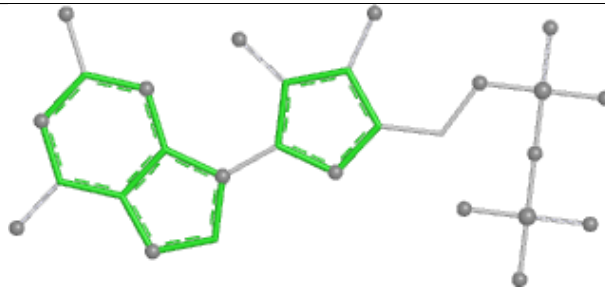
Bond lengths



Bond angles

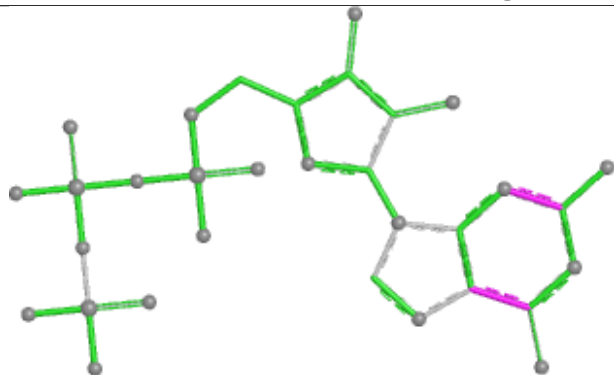


Torsions

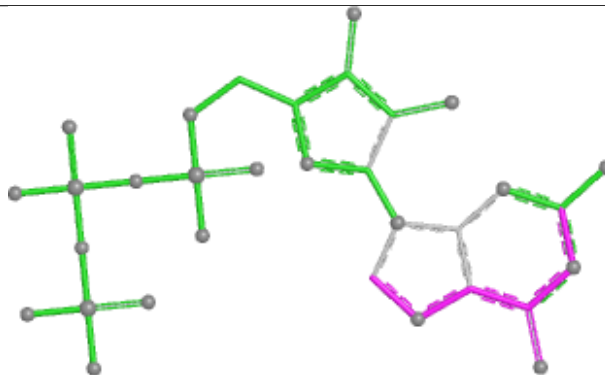


Rings

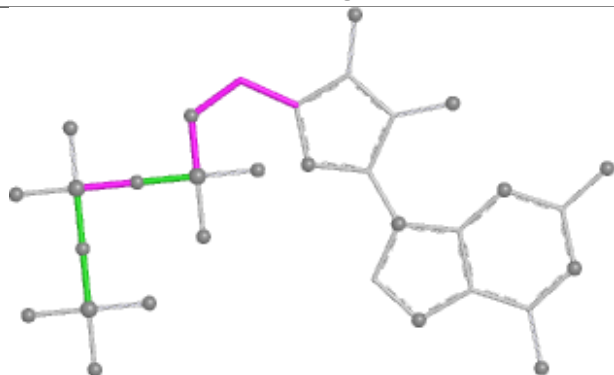
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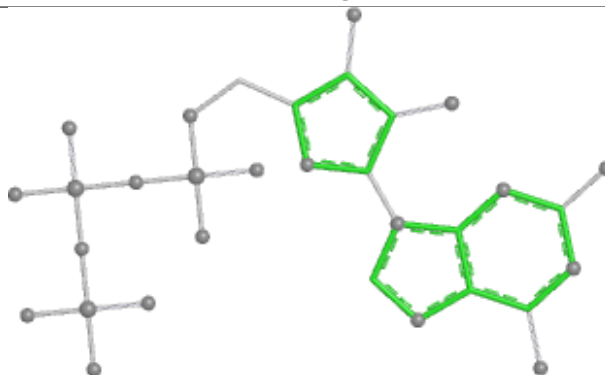
Bond lengths



Bond angles

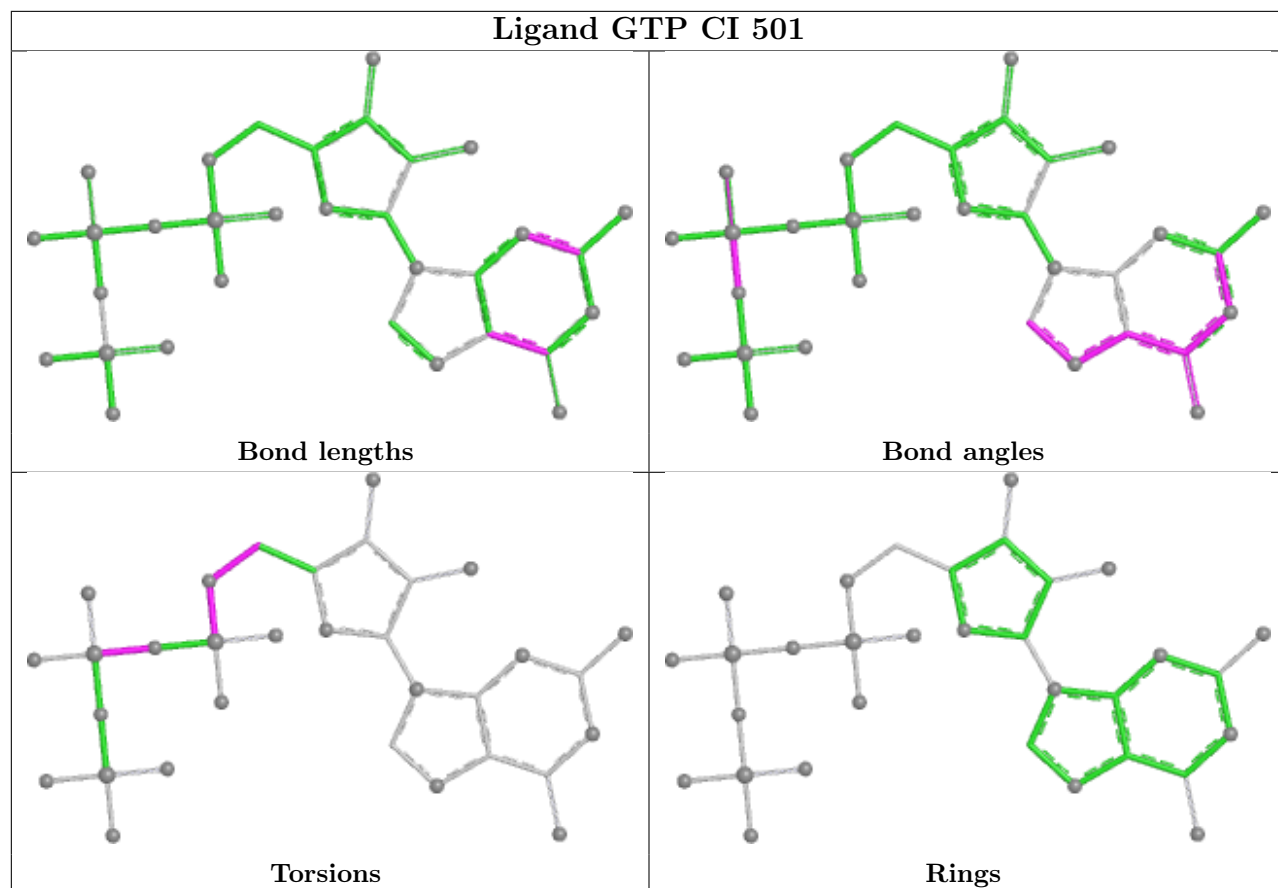


Torsions

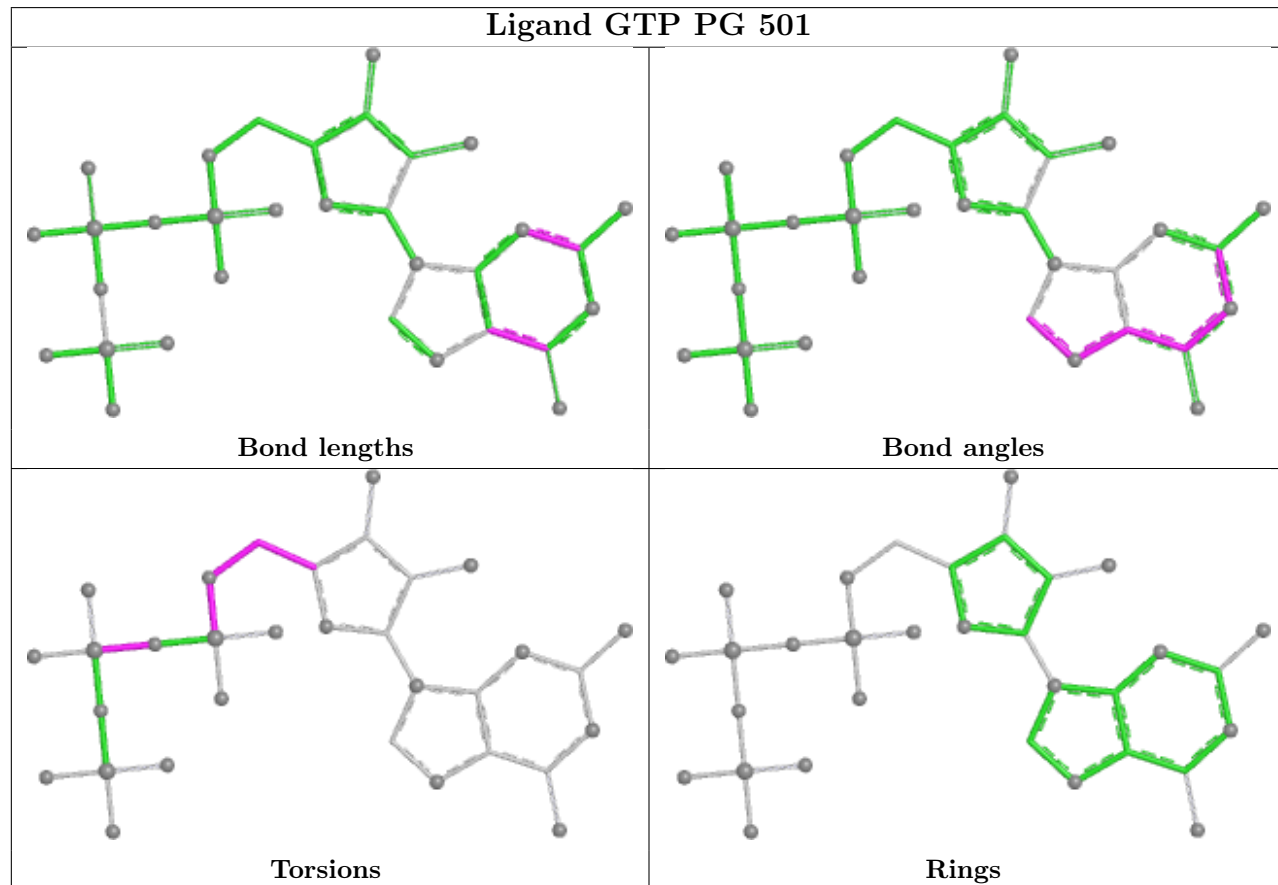


Rings

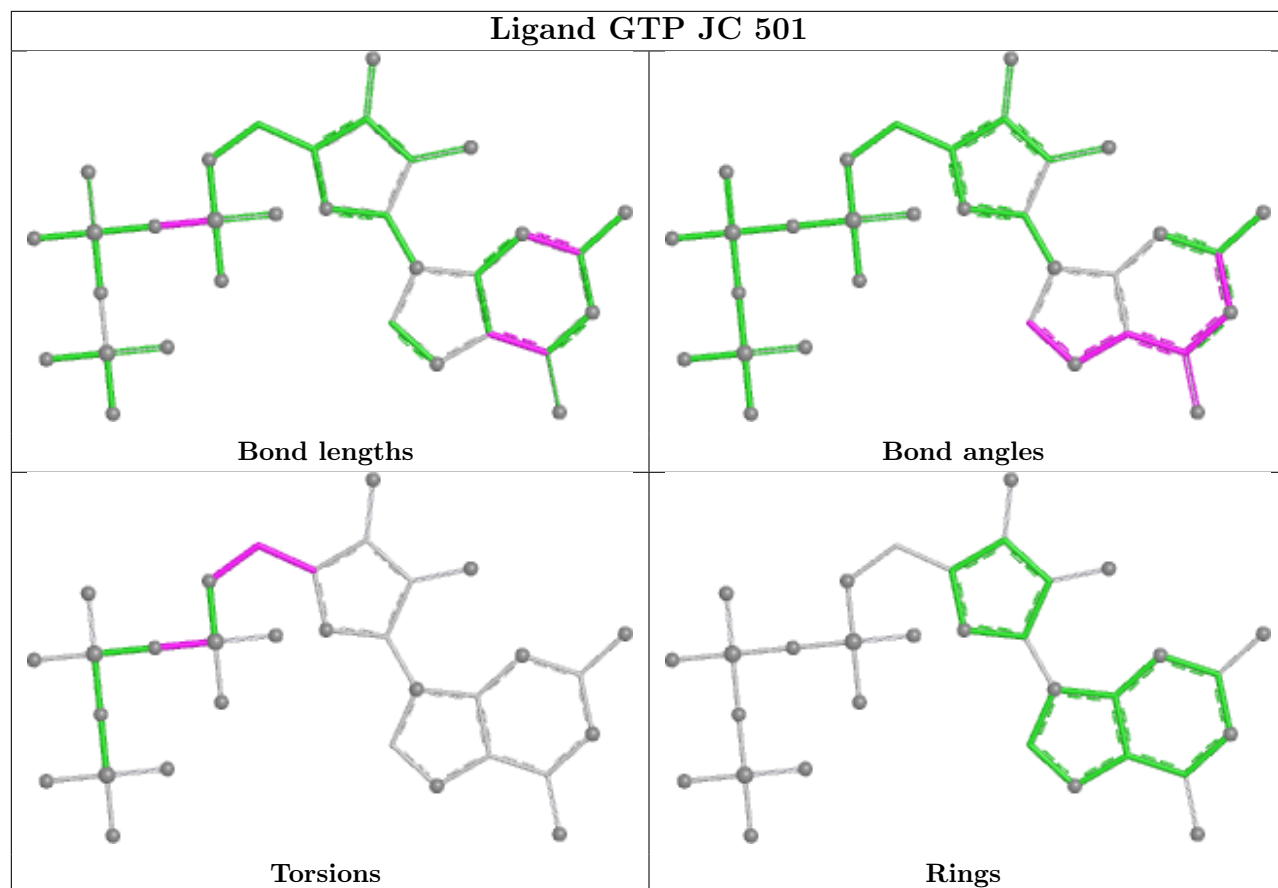
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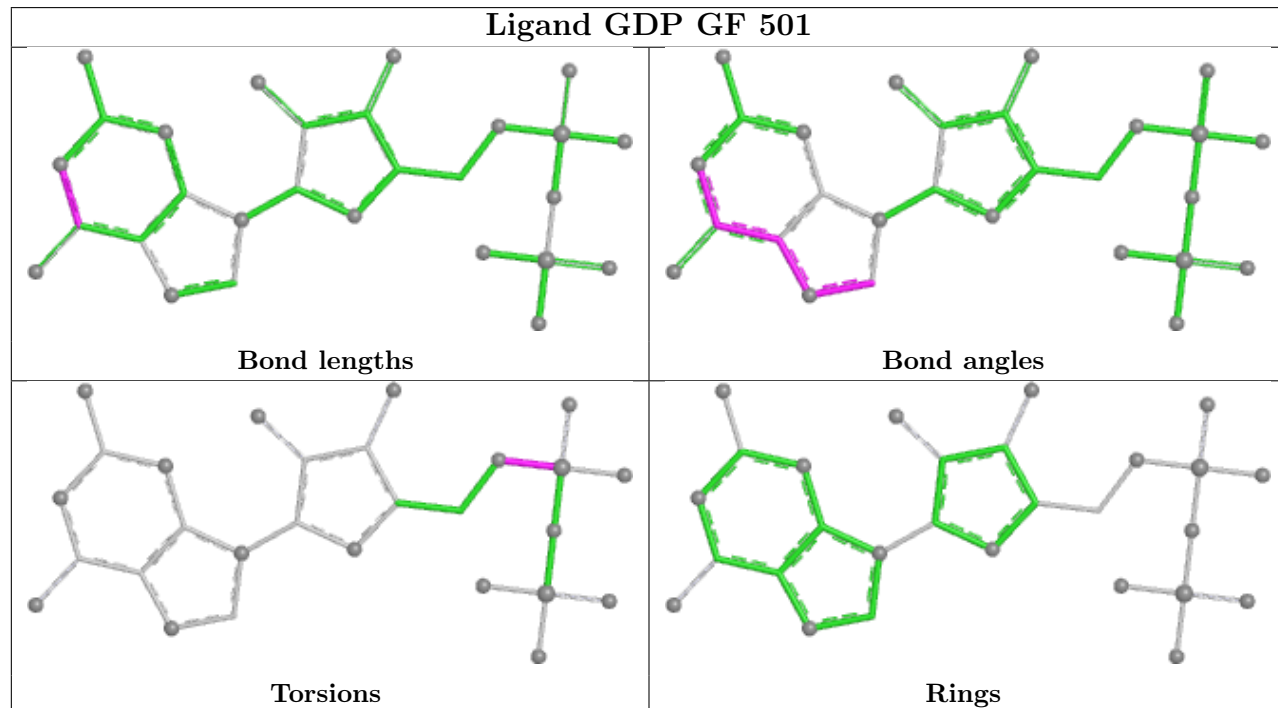
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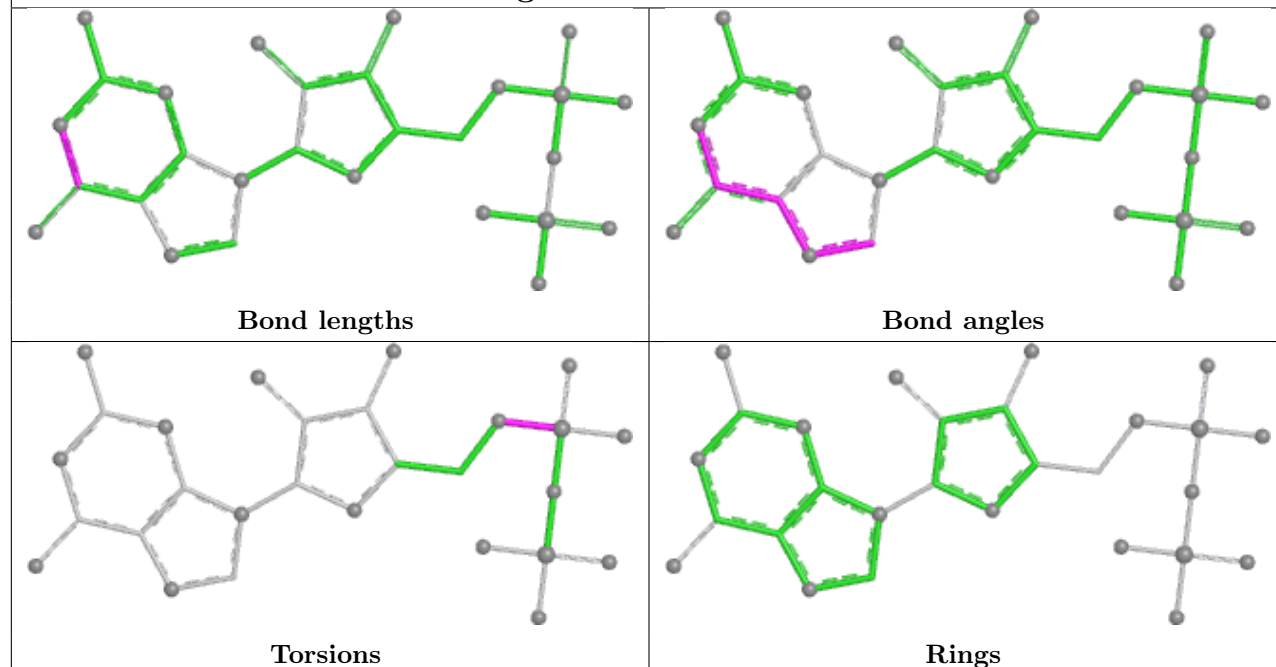
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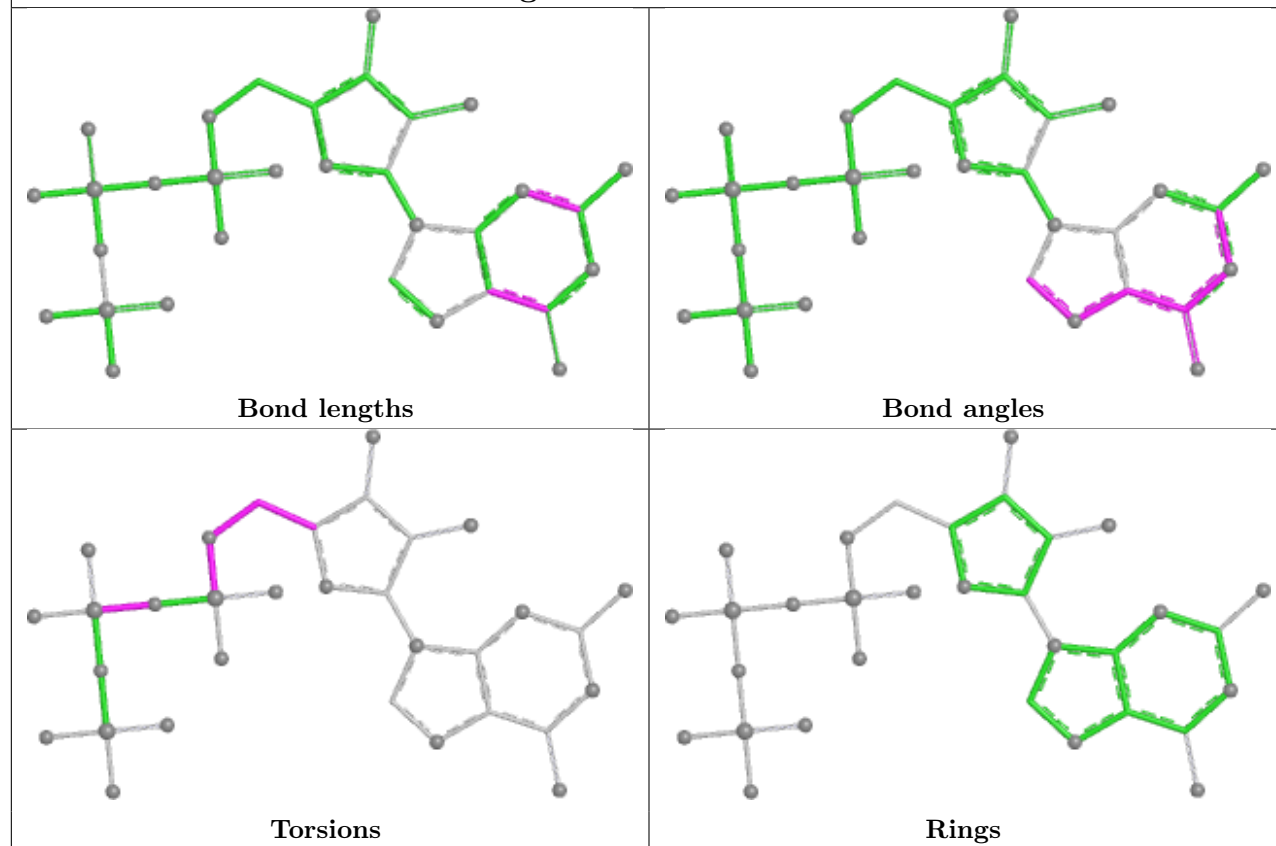
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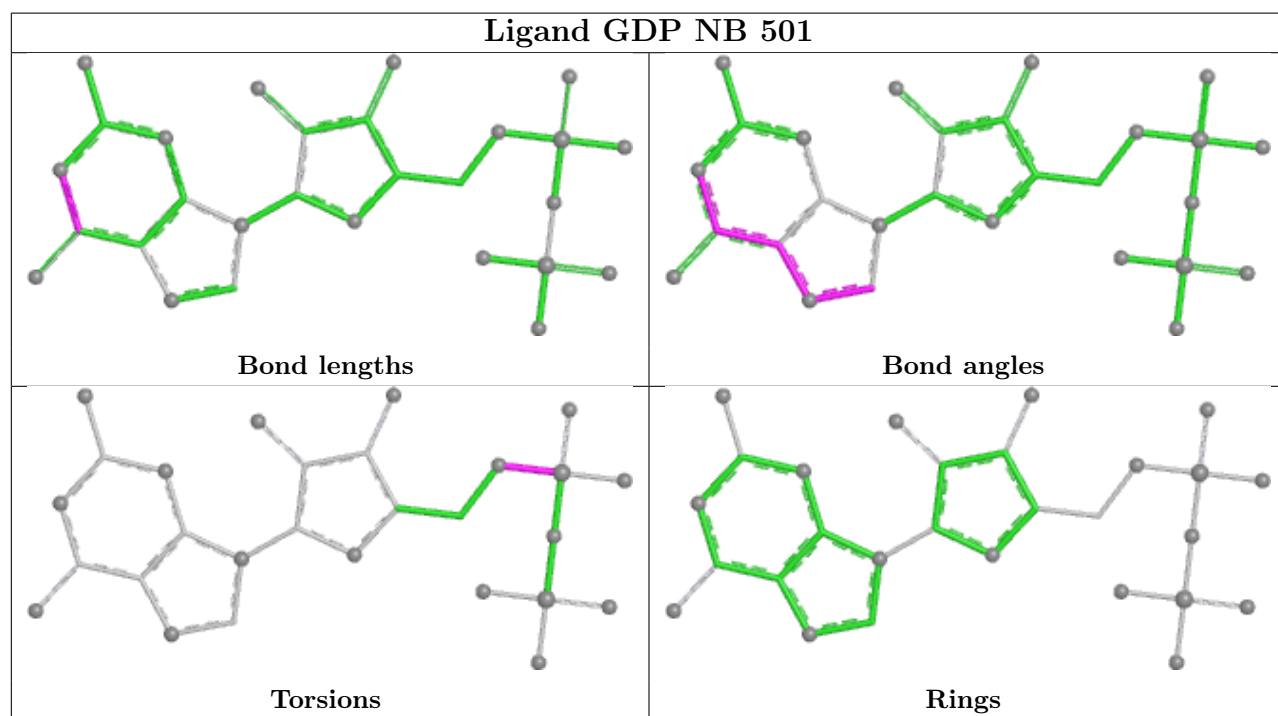
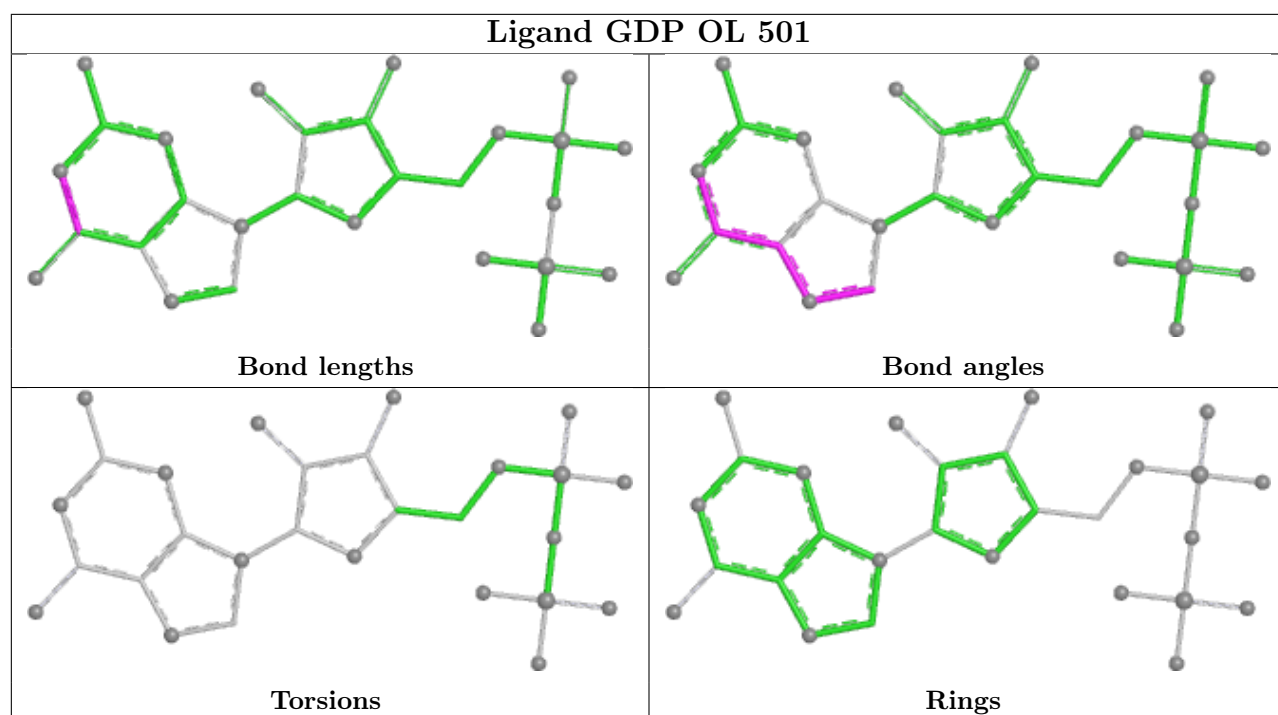


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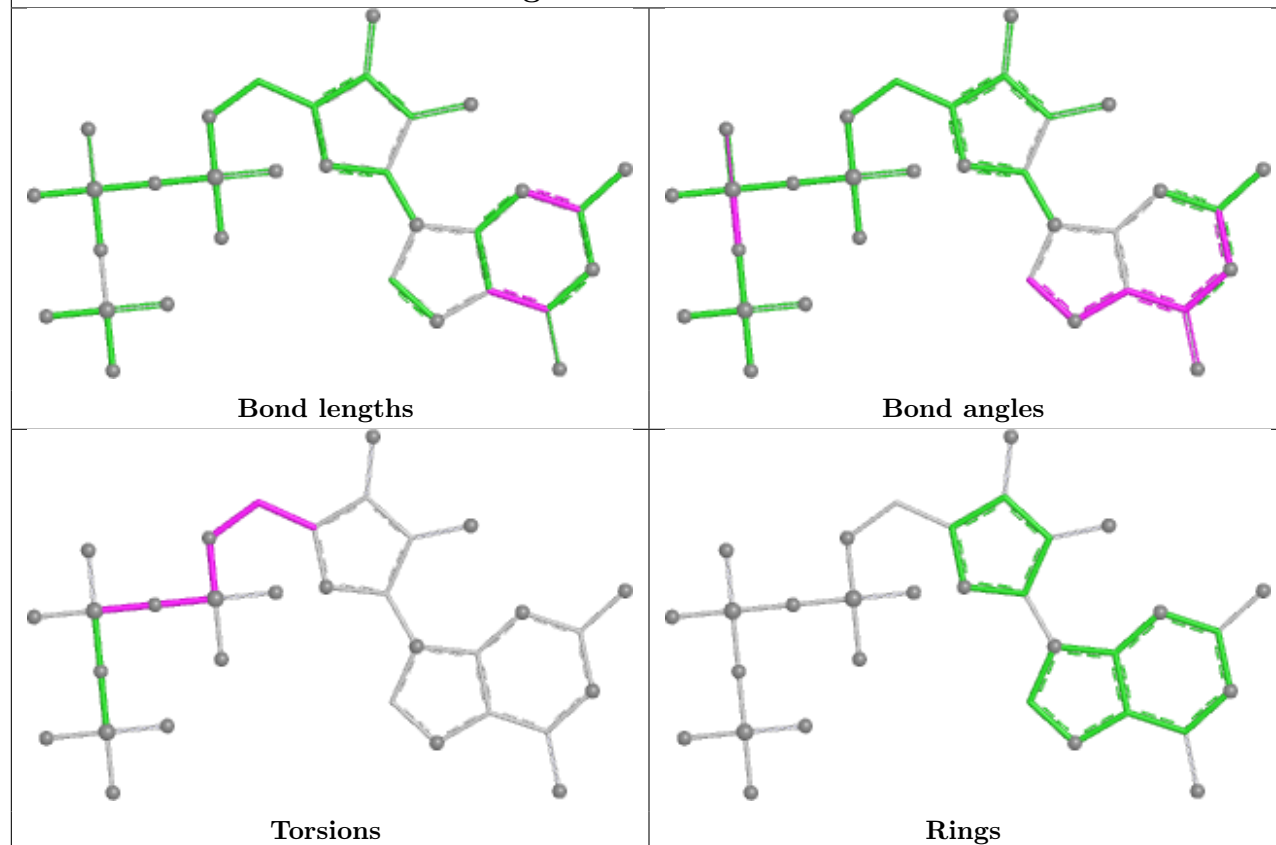


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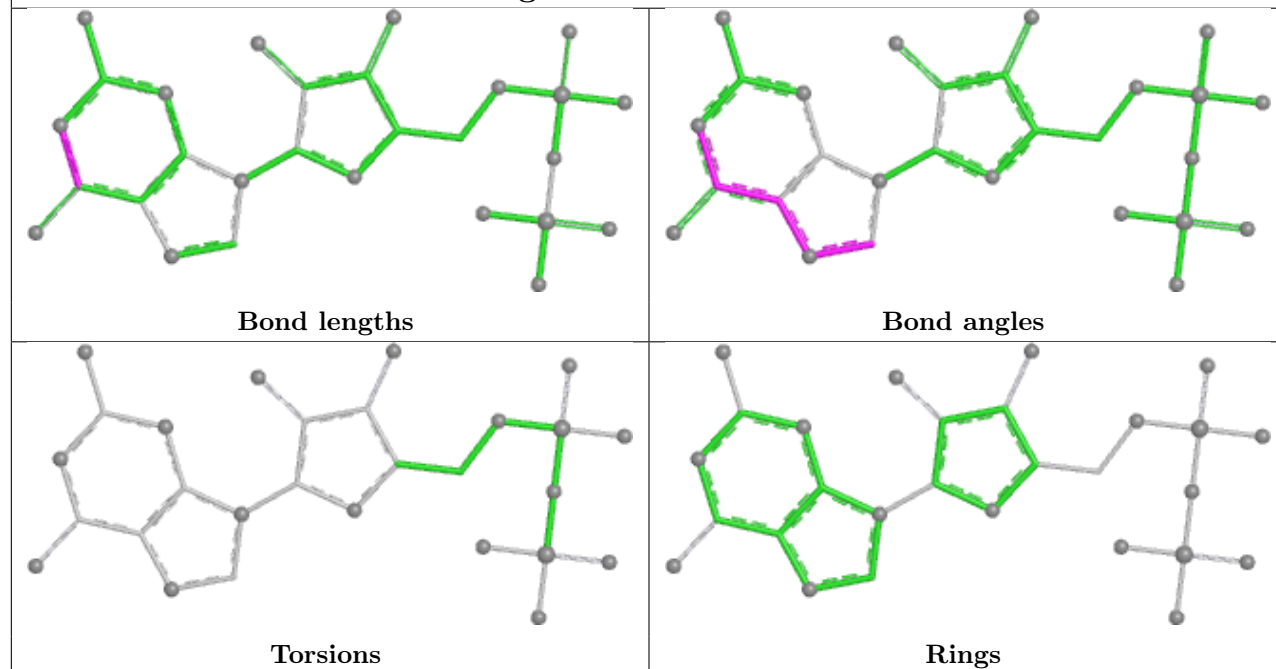




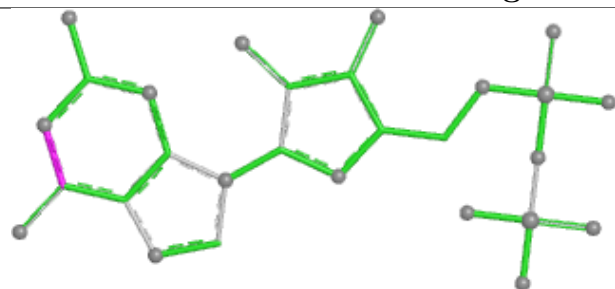
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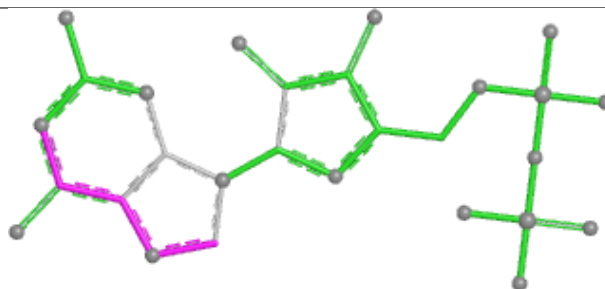
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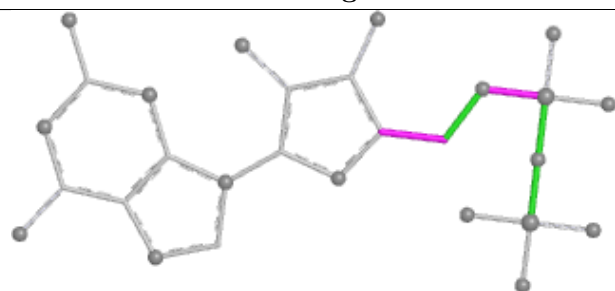
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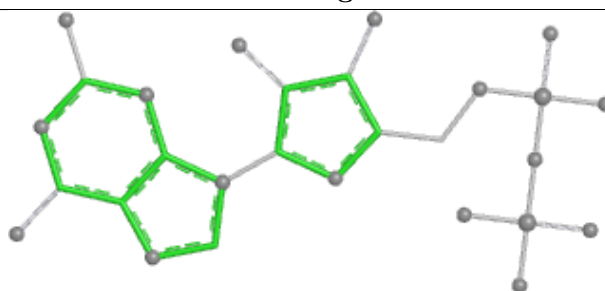
Bond lengths



Bond angles

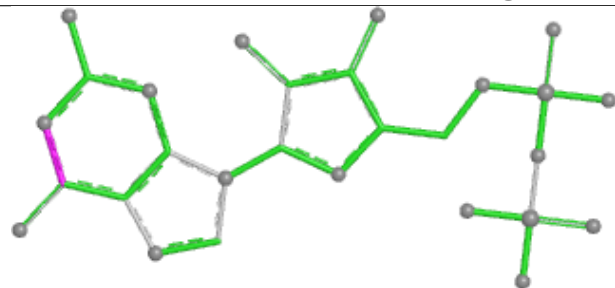


Torsions

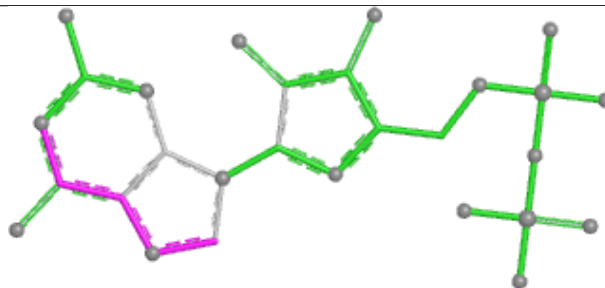


Rings

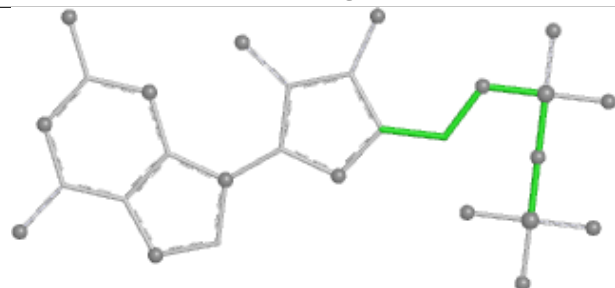
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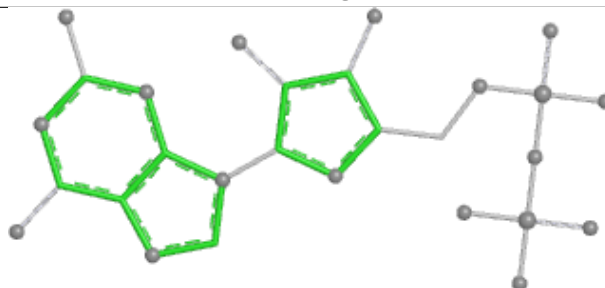
Bond lengths



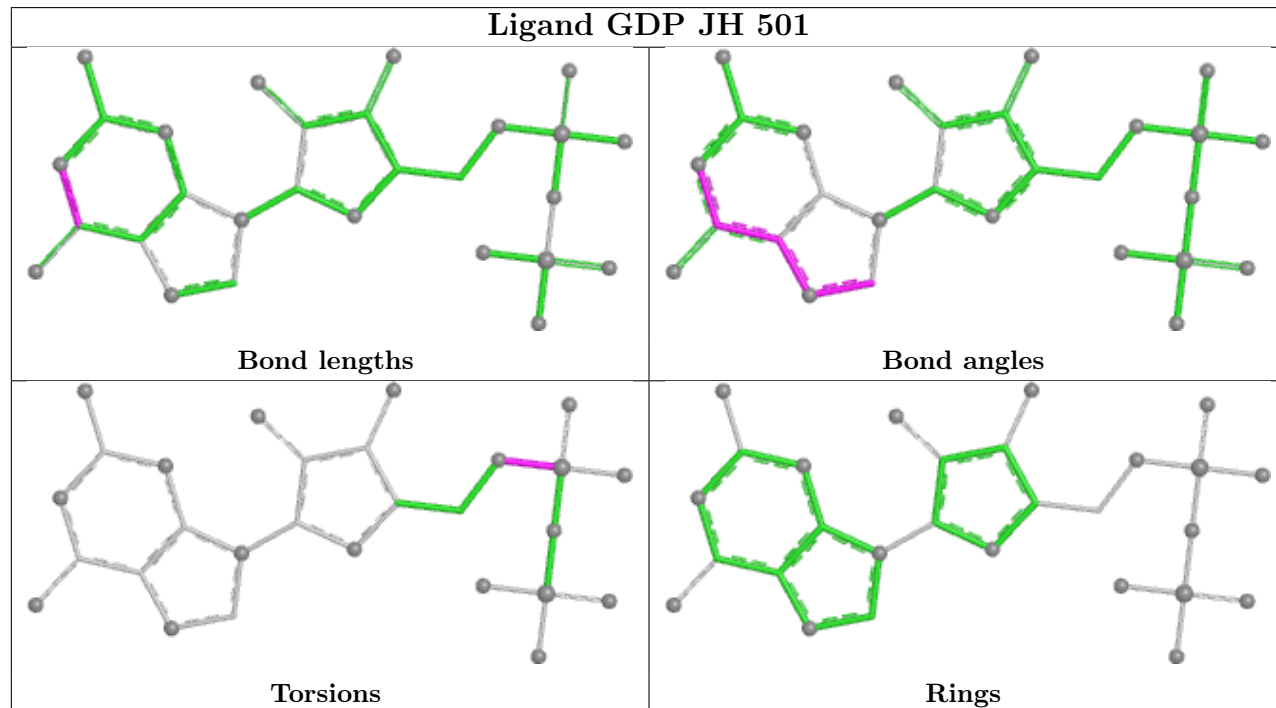
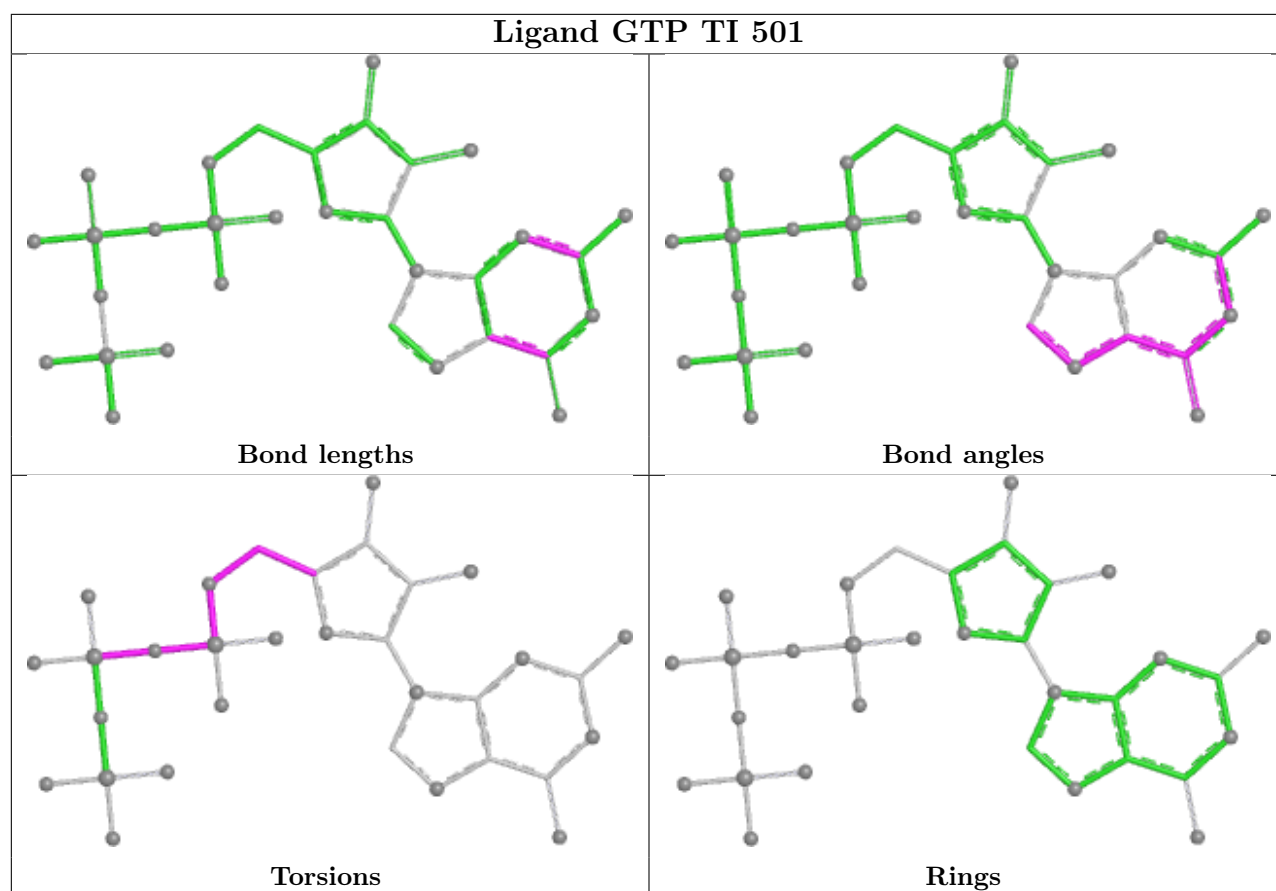
Bond angles



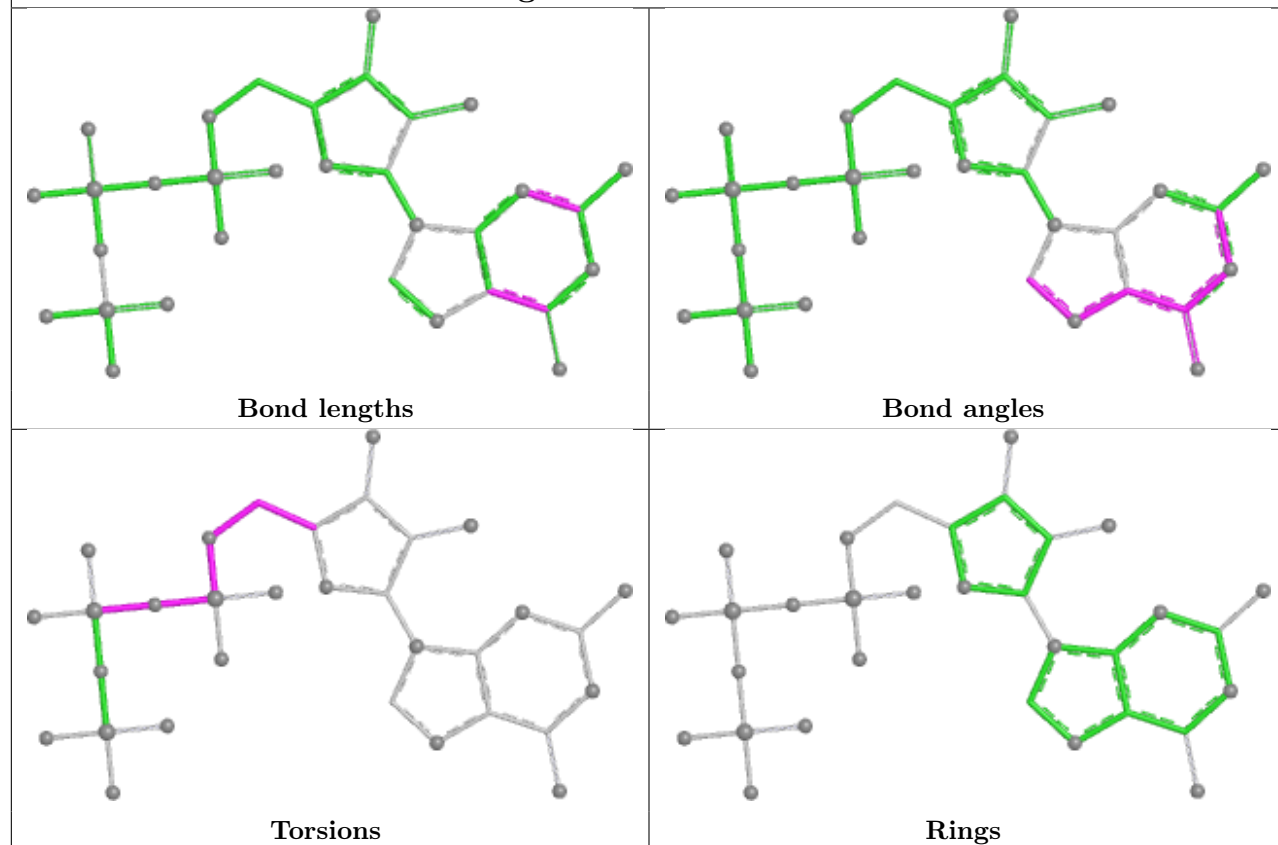
Torsions



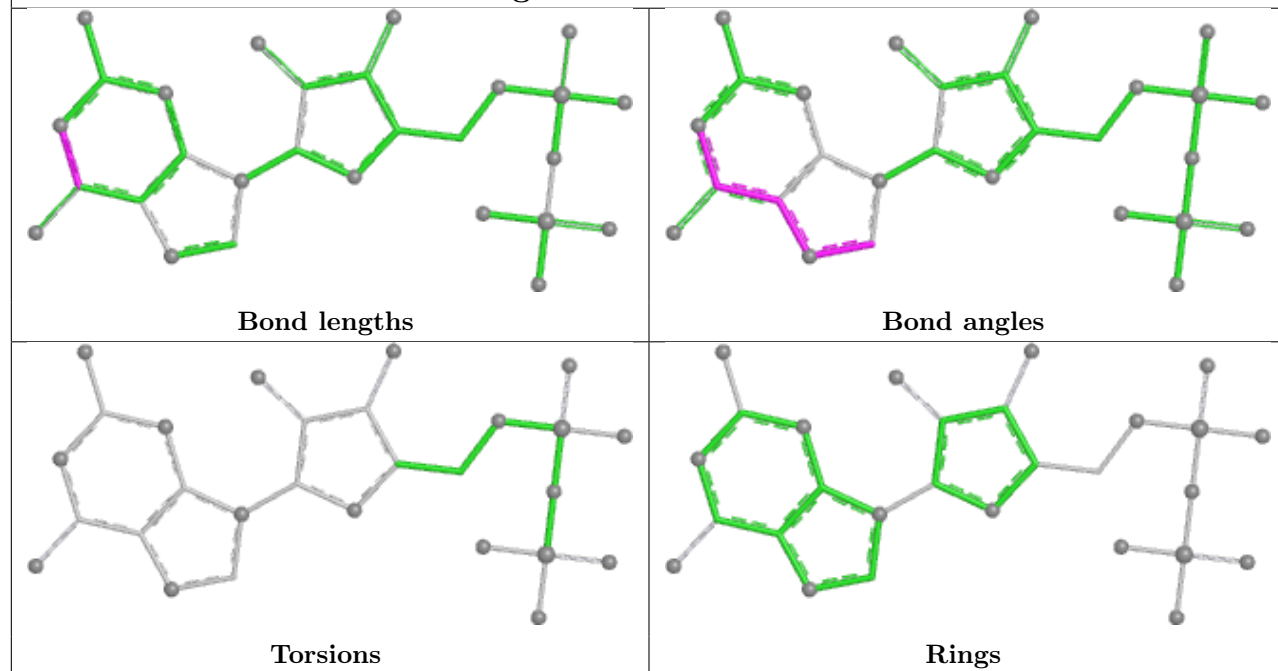
Rings



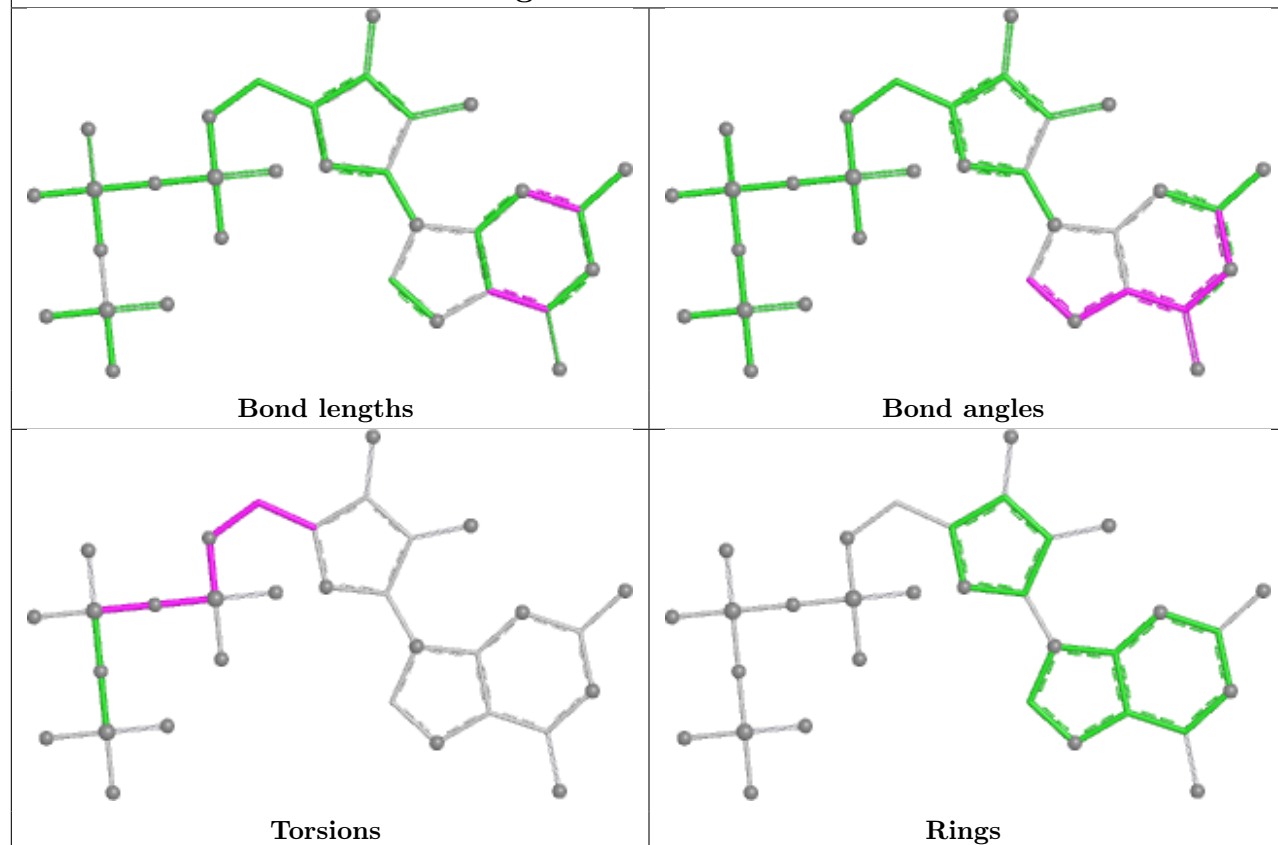
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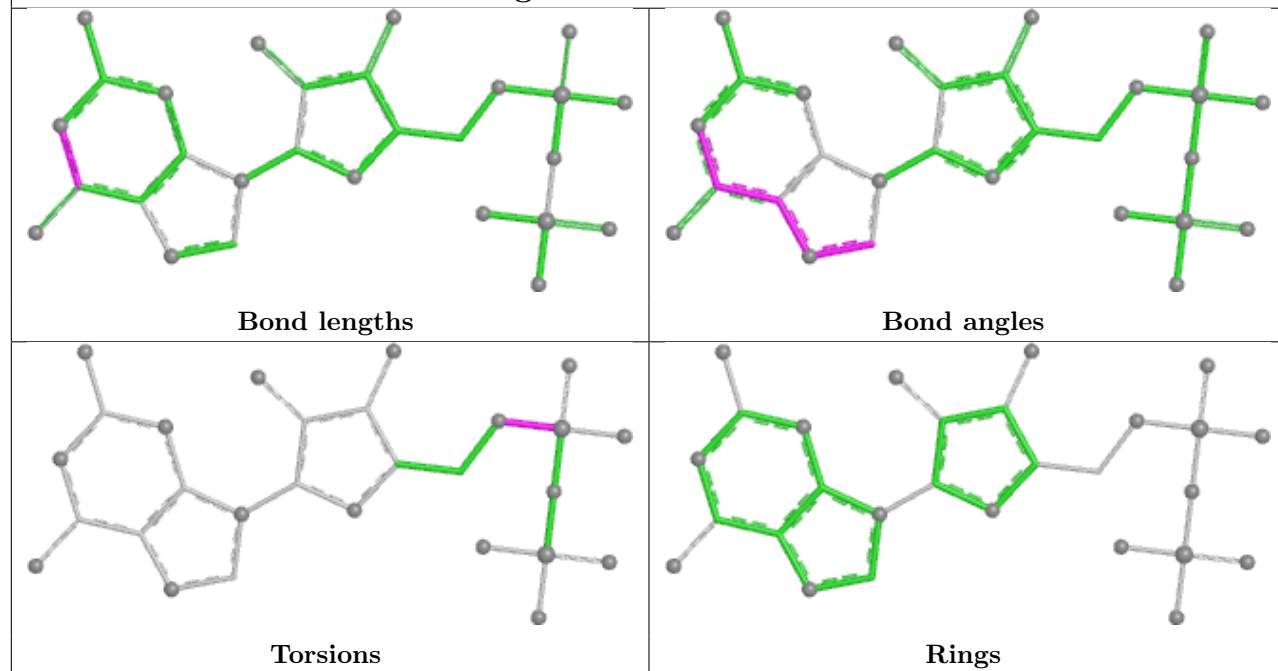
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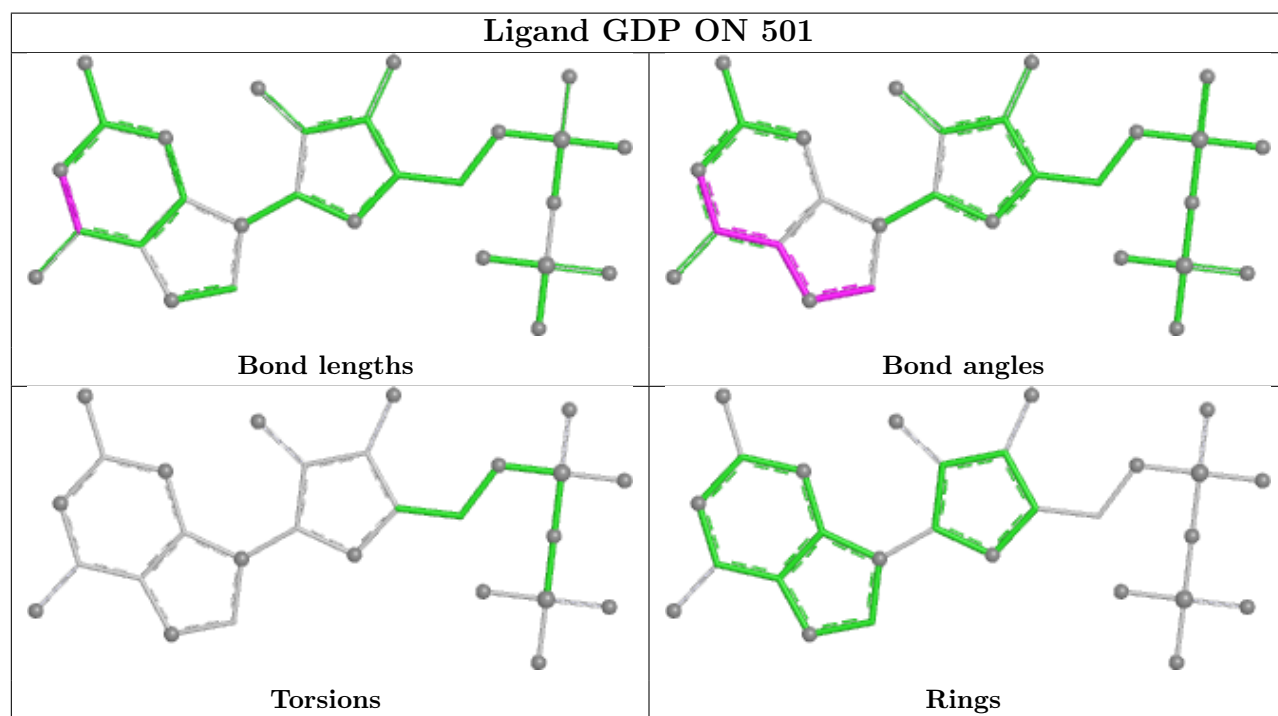
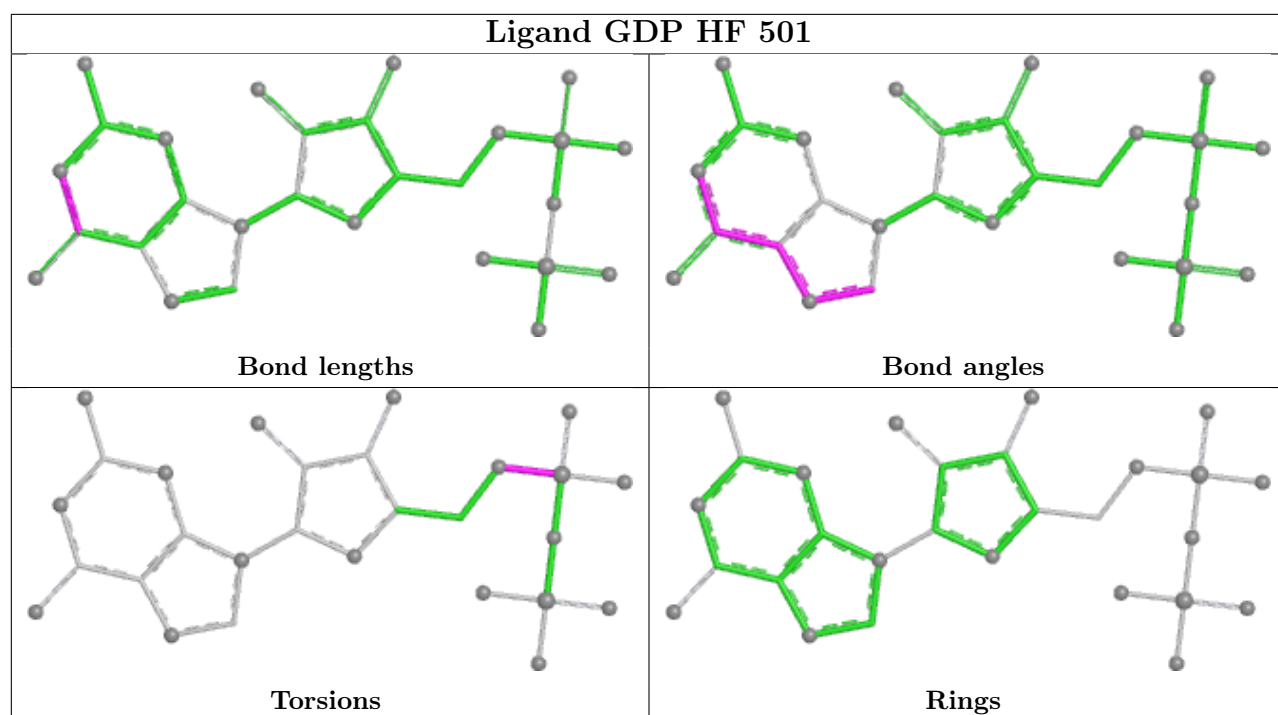


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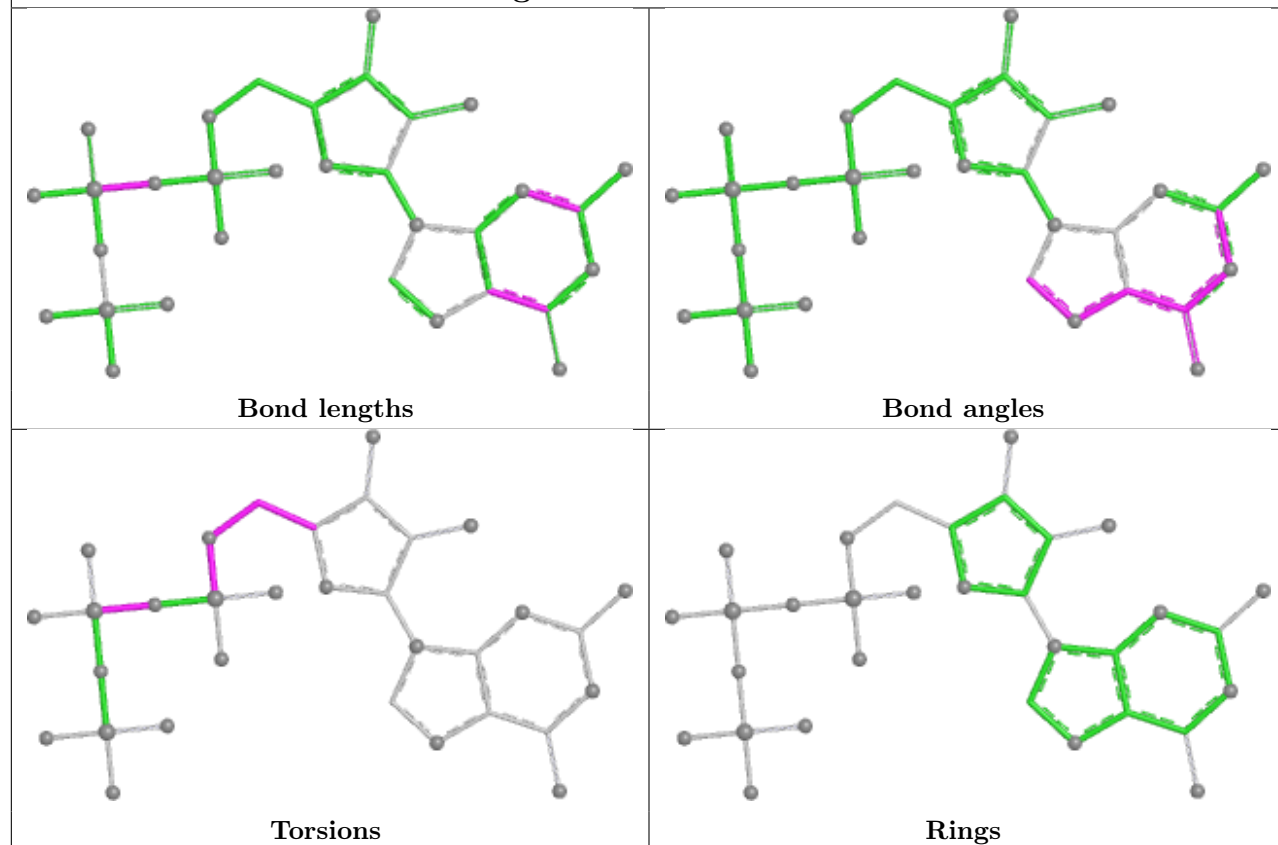


Ligand GDP ND 502

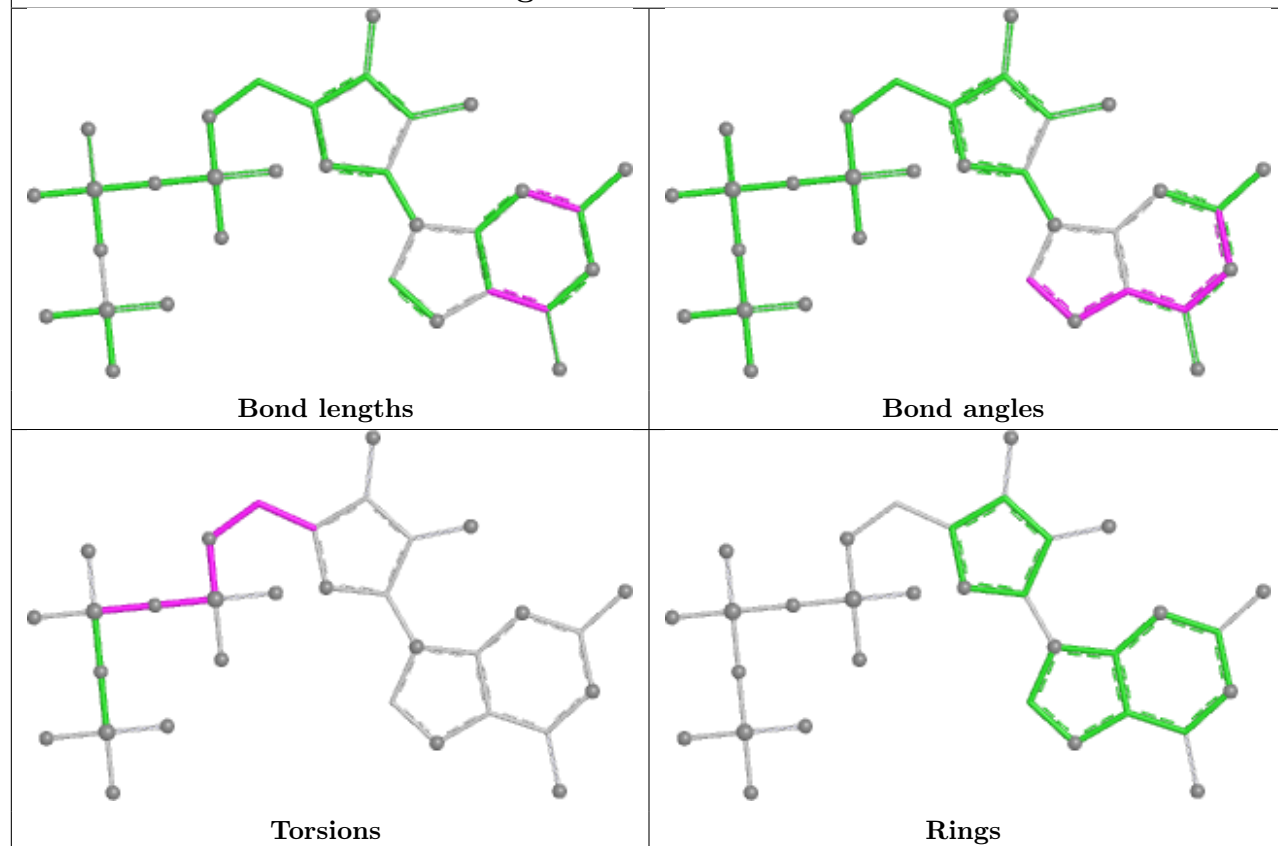


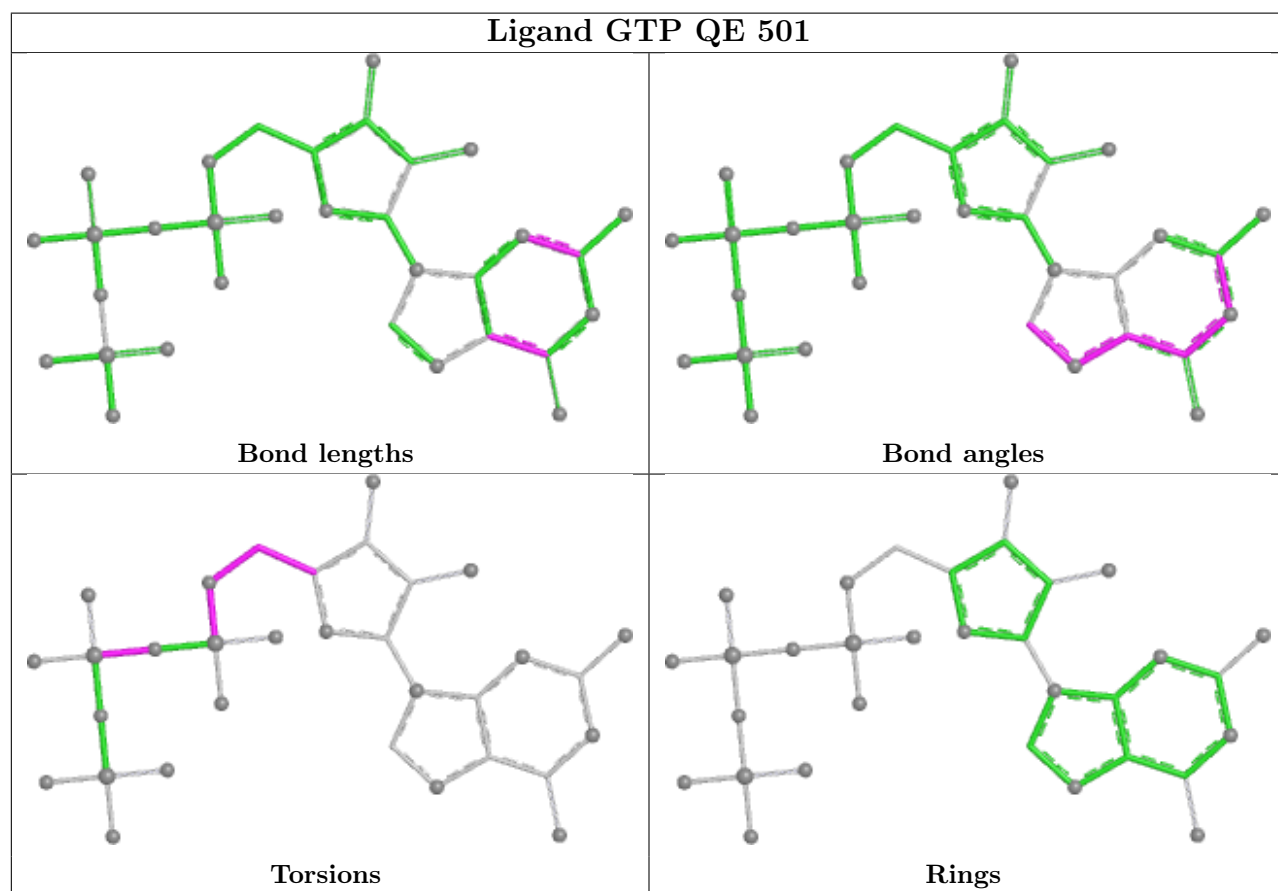
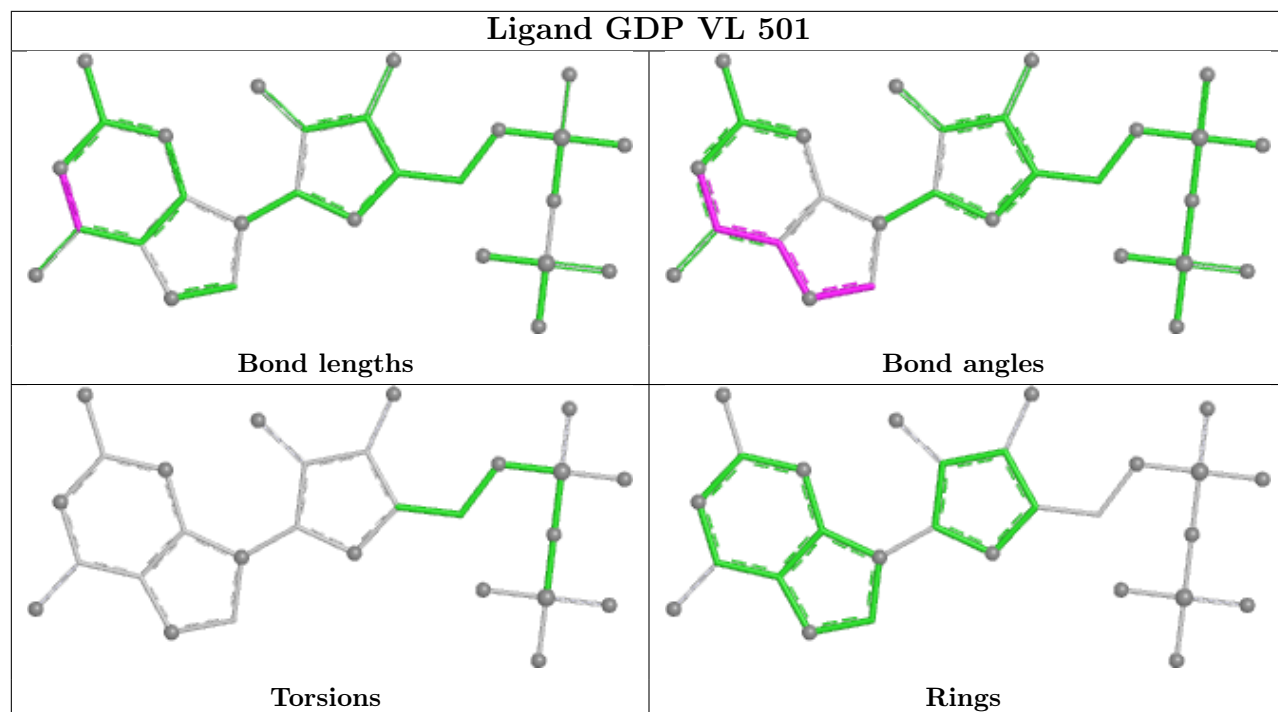


Ligand GTP UM 501

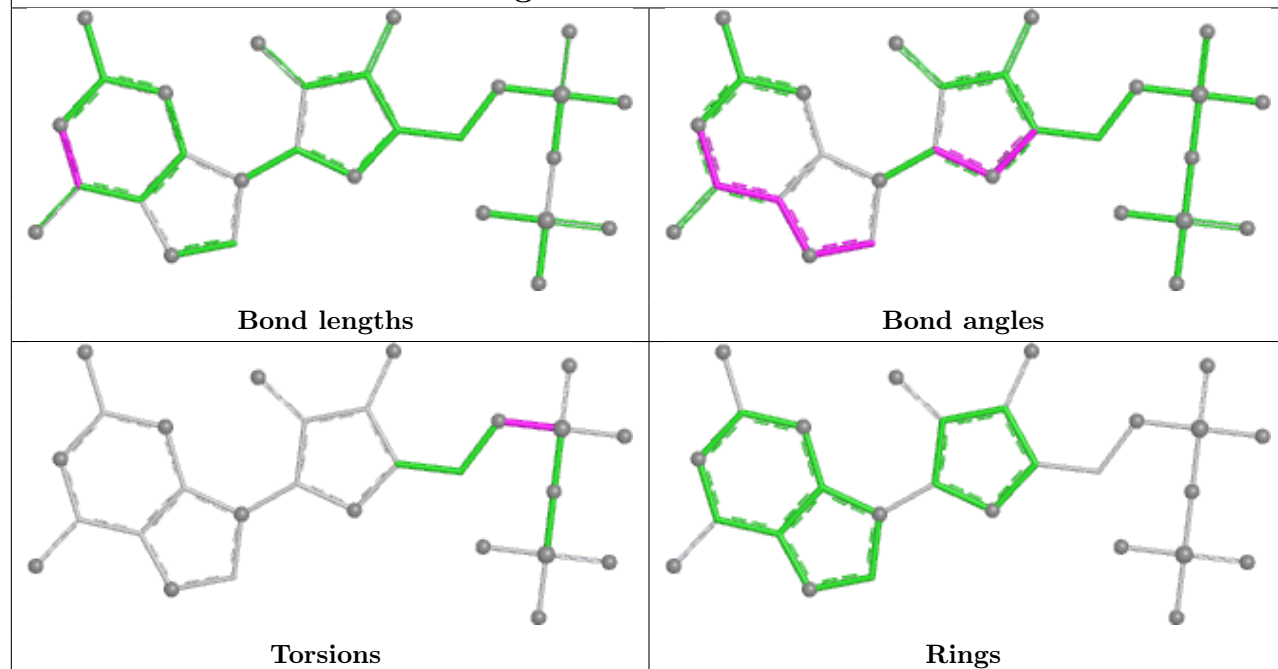


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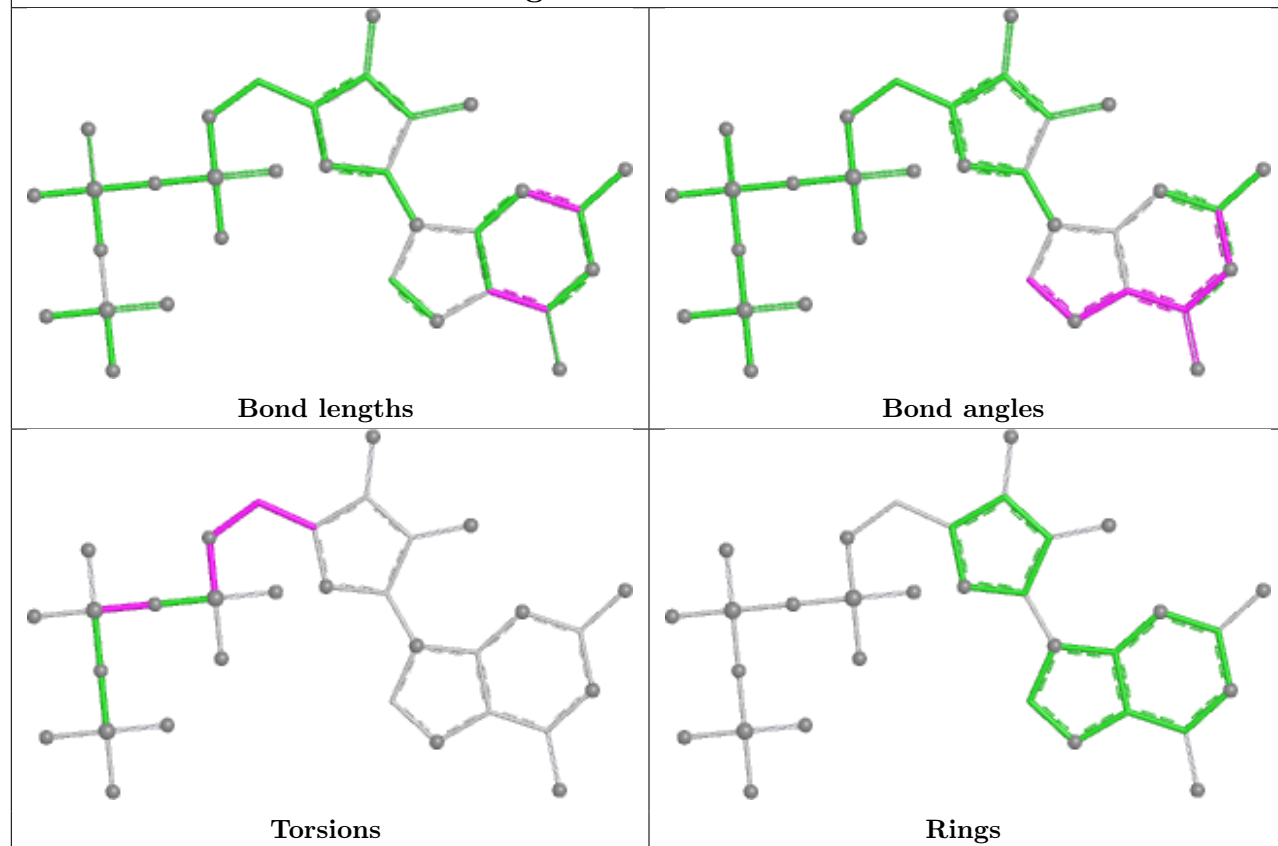




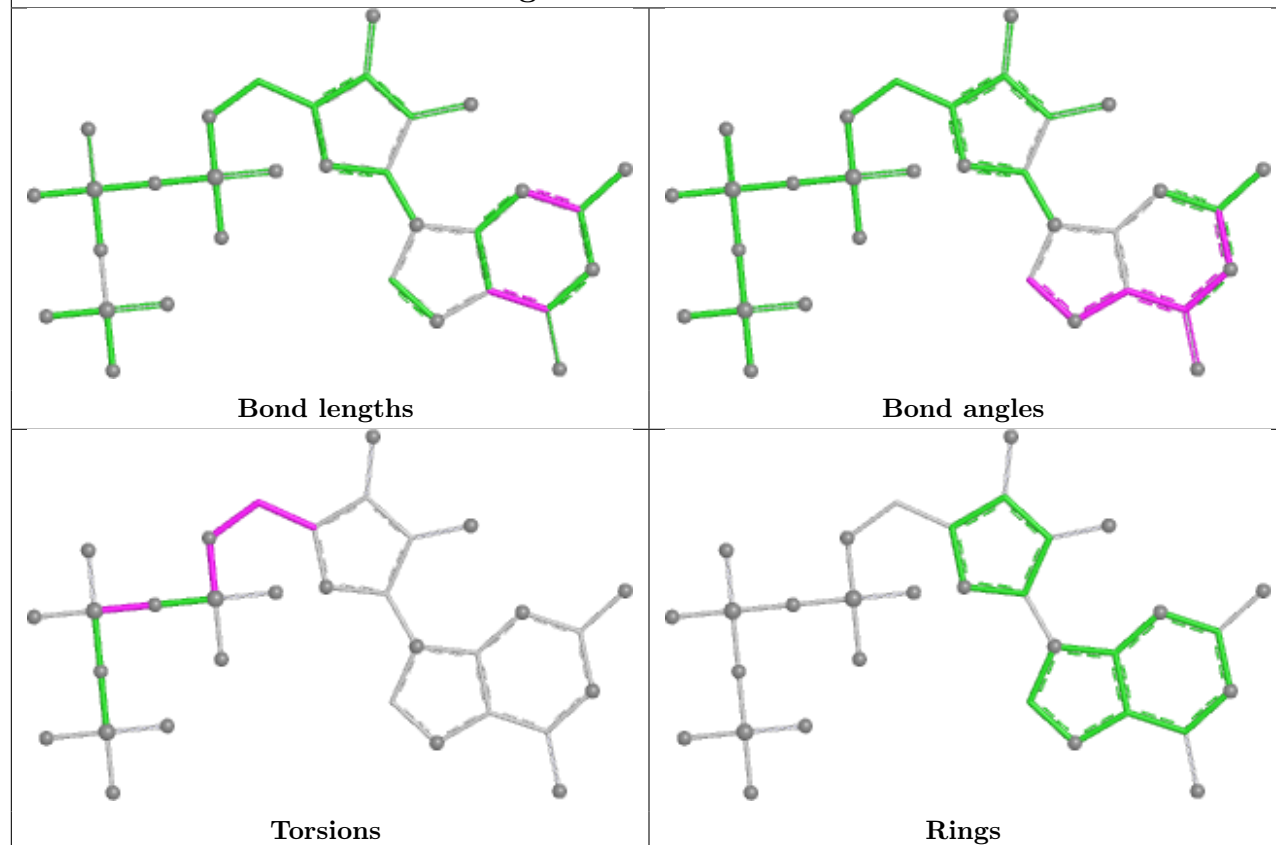
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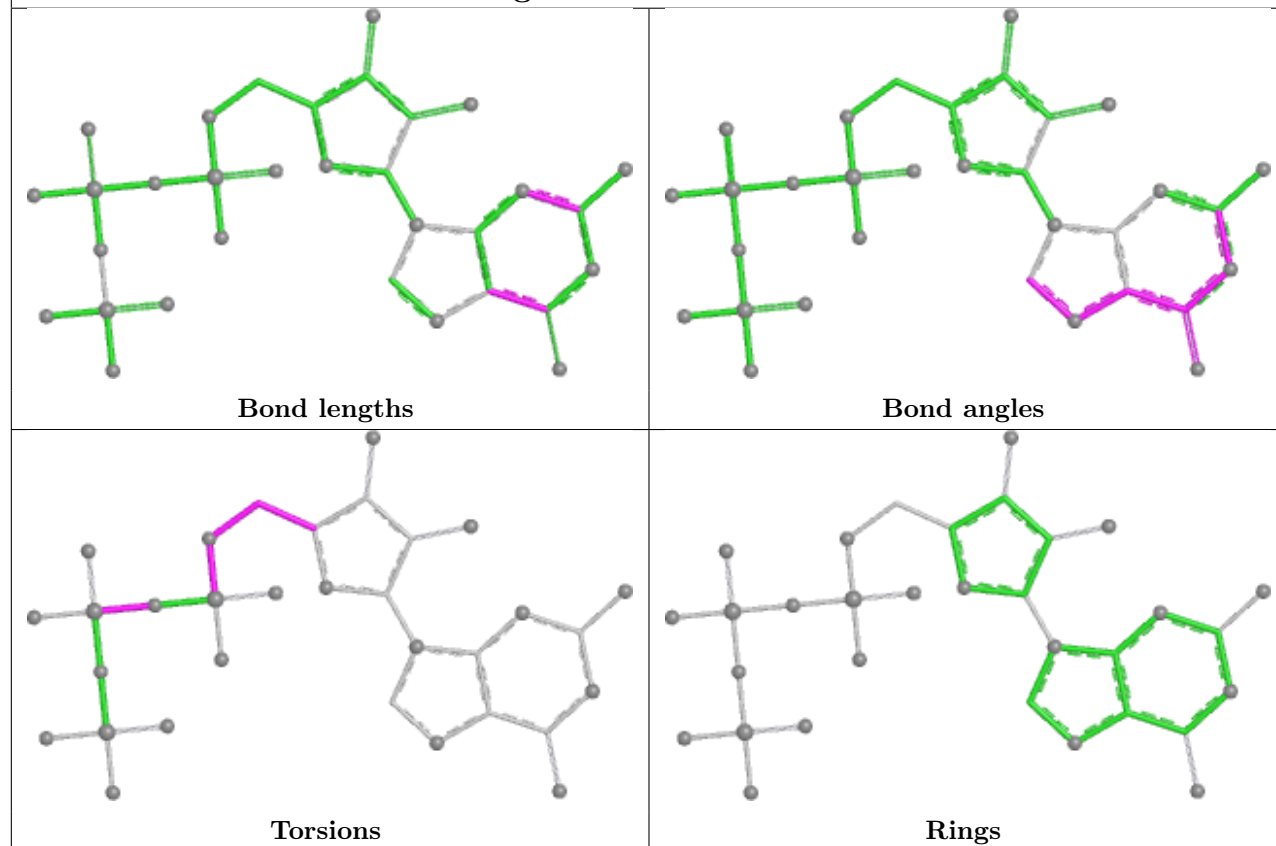
Ligand GTP FI 501



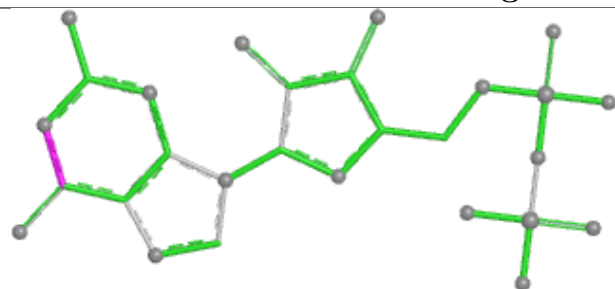
Ligand GTP EC 501



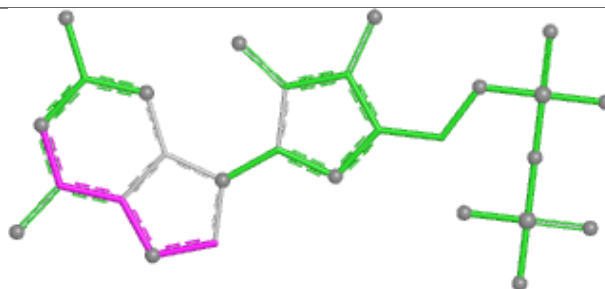
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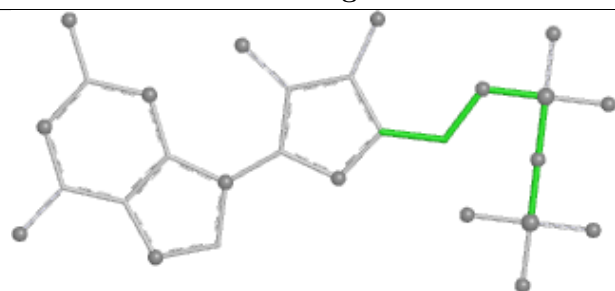
Ligand GDP PB 501



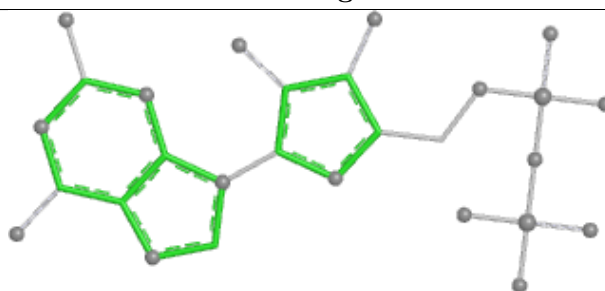
Bond lengths



Bond angles

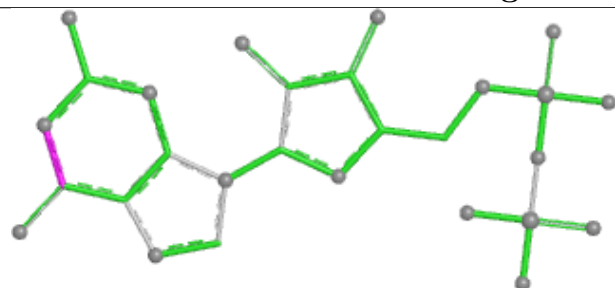


Torsions

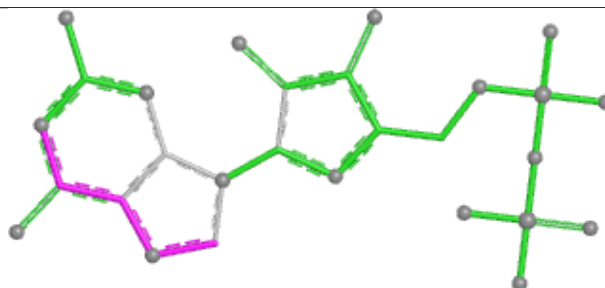


Rings

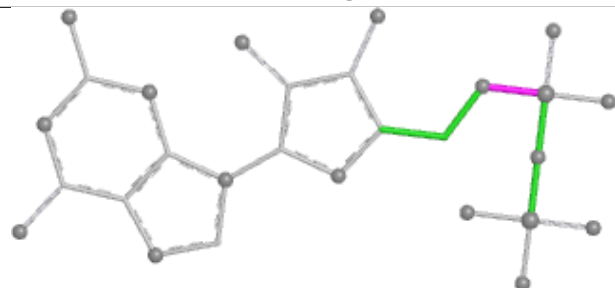
Ligand GDP TB 501



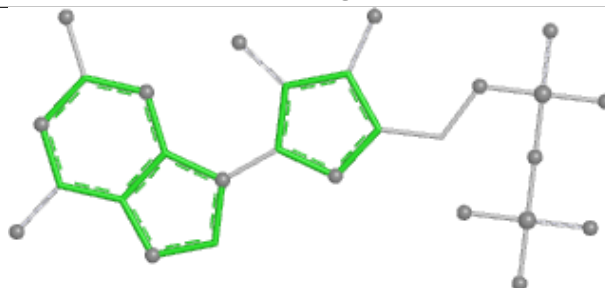
Bond lengths



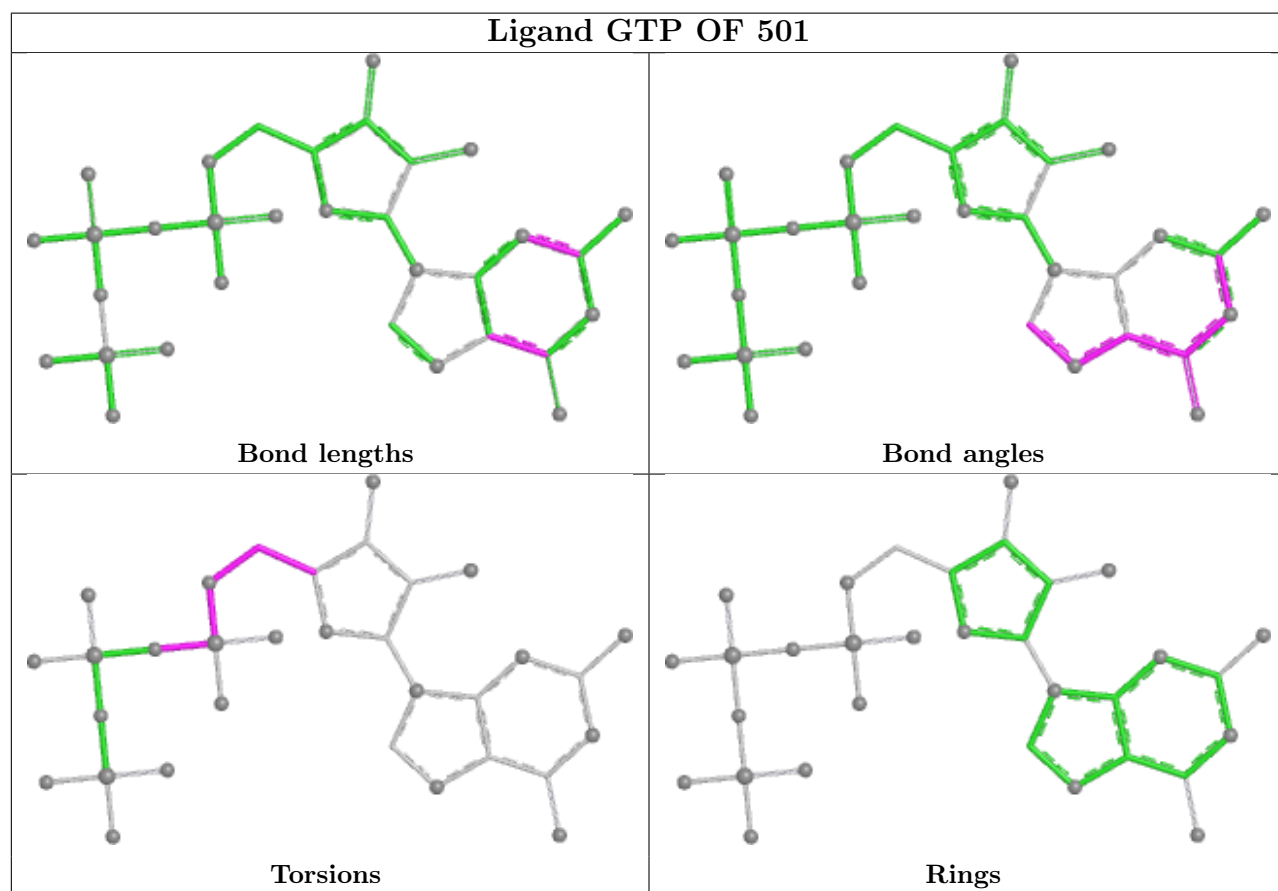
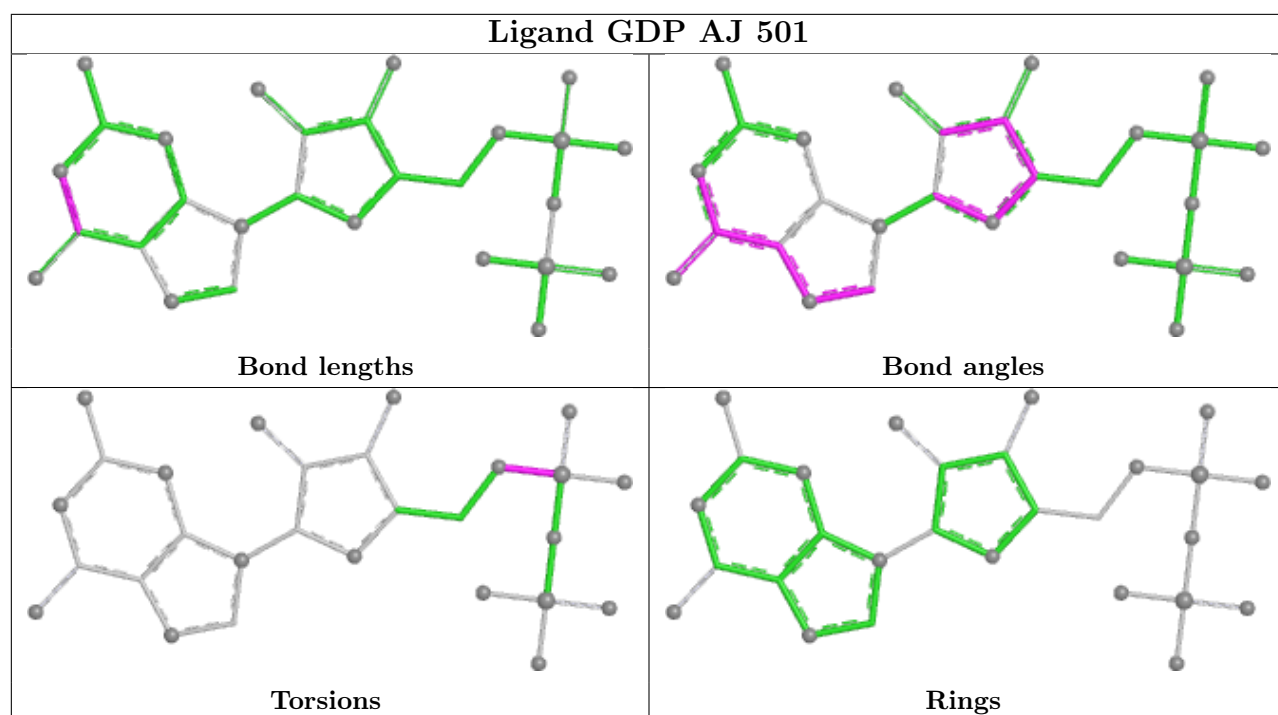
Bond angles



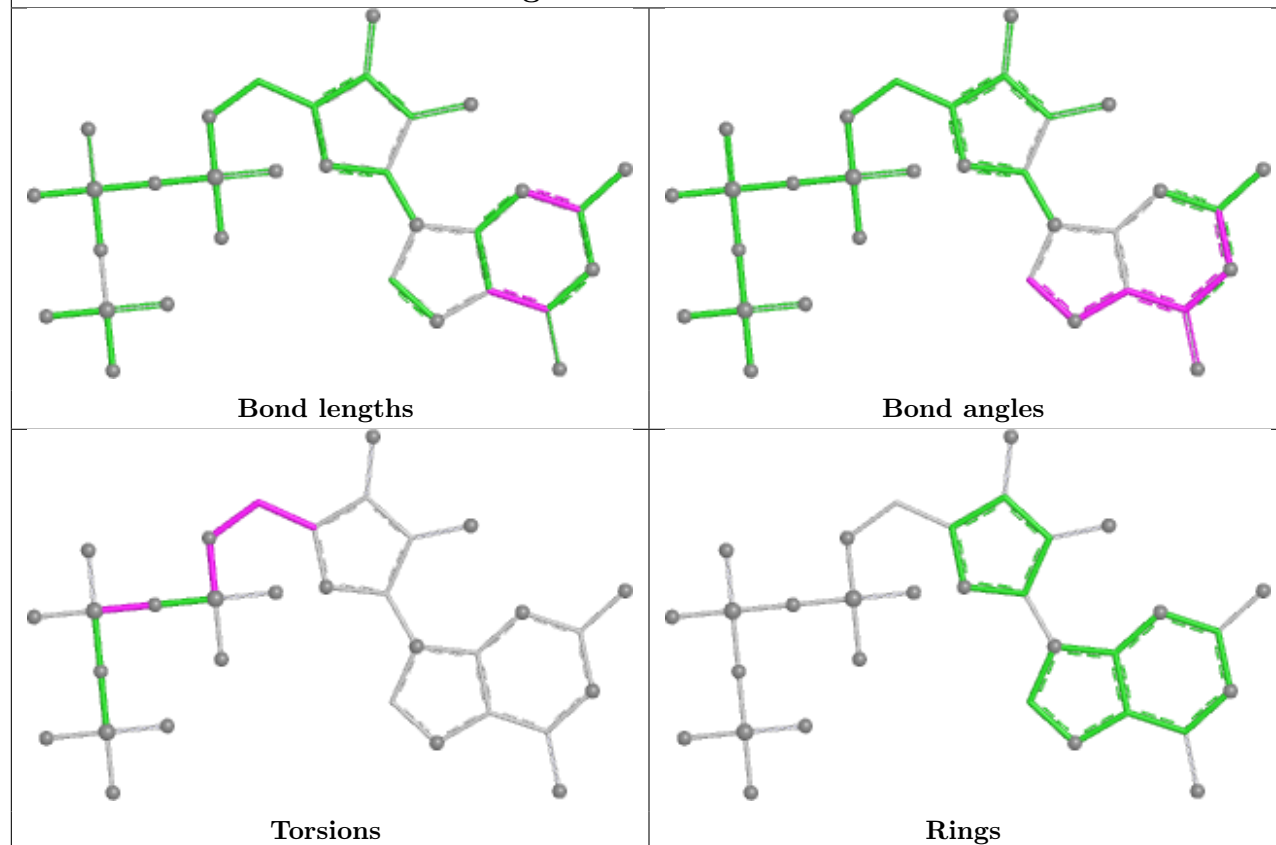
Torsions



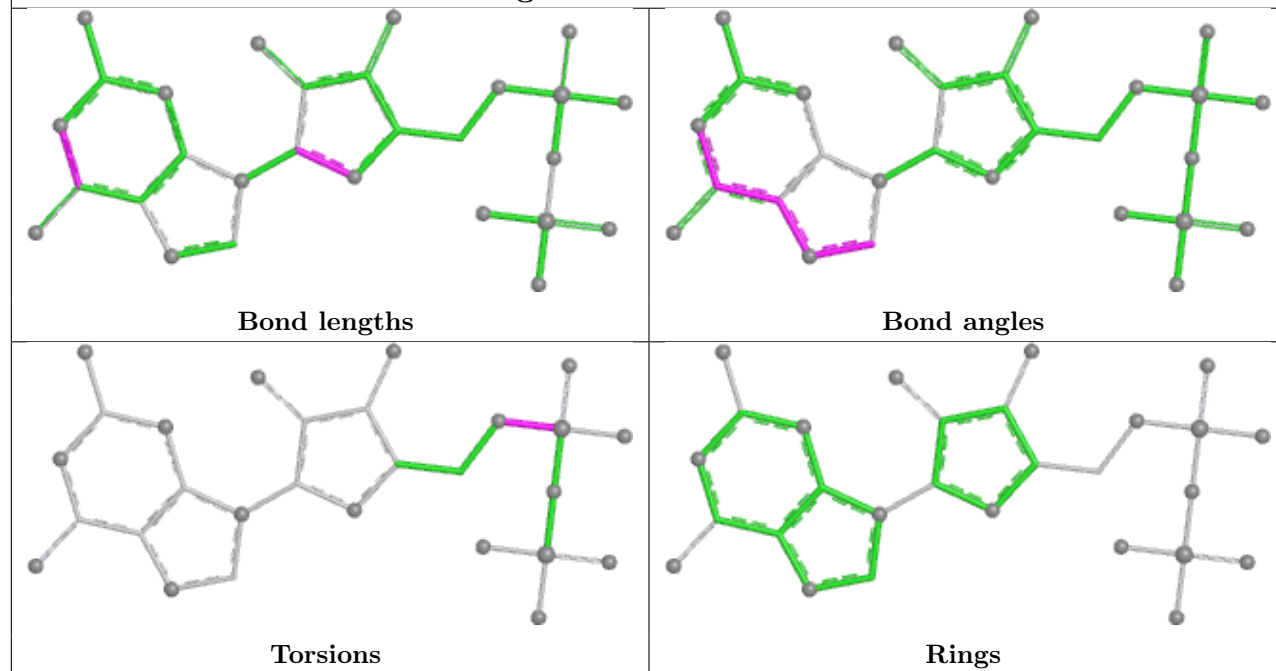
Rings



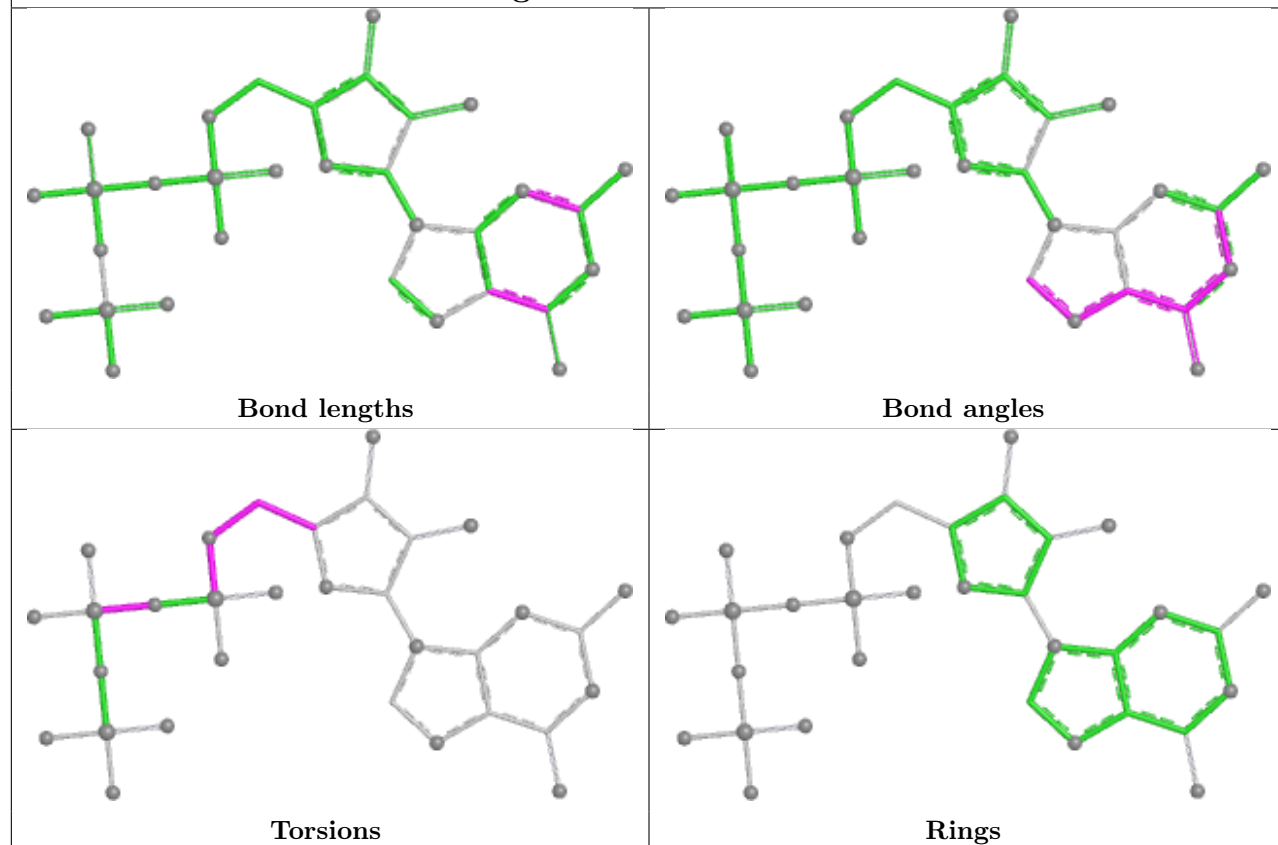
Ligand GTP JE 501



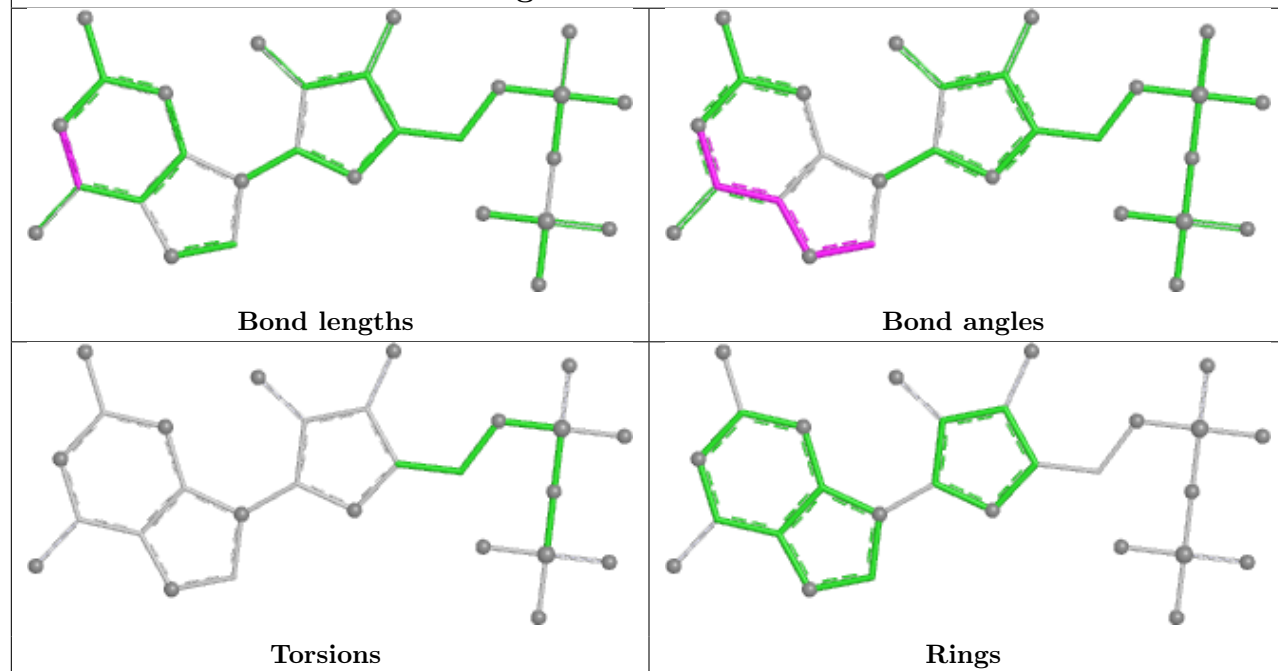
Ligand GDP EN 501



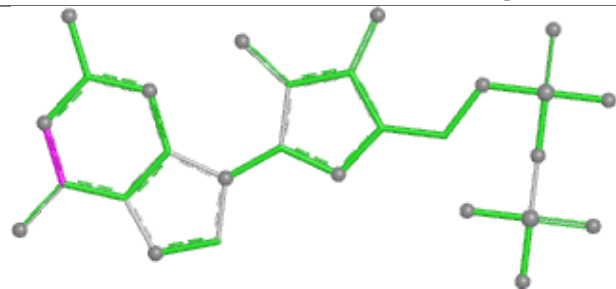
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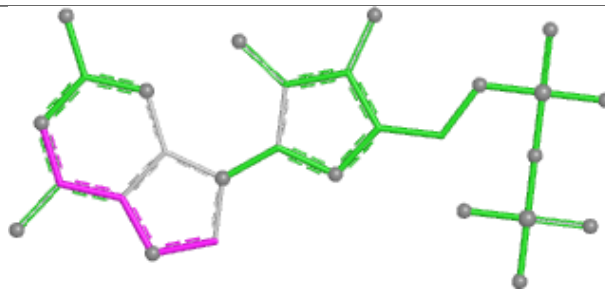
Ligand GDP RB 501



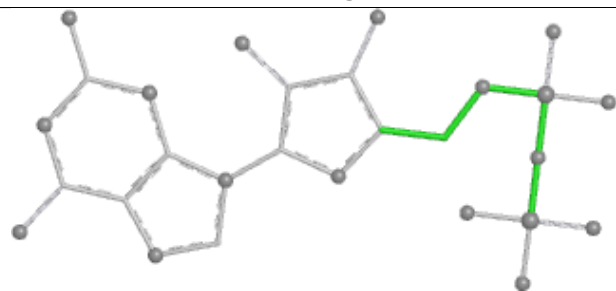
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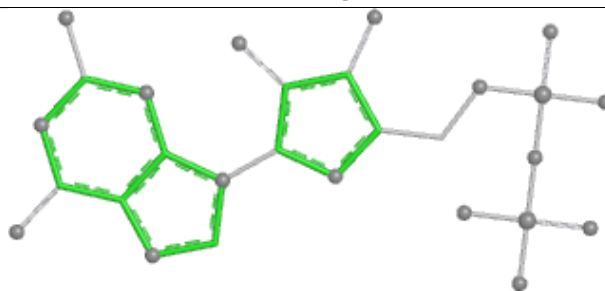
Bond lengths



Bond angles

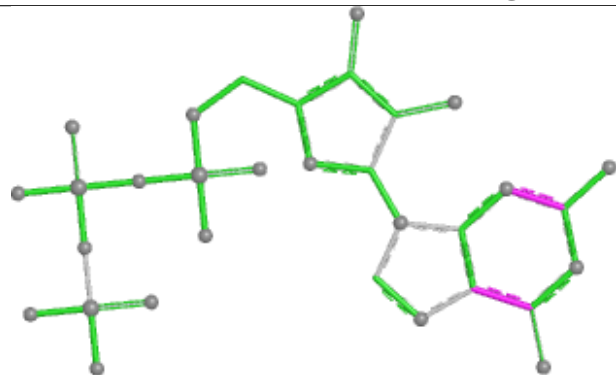


Torsions

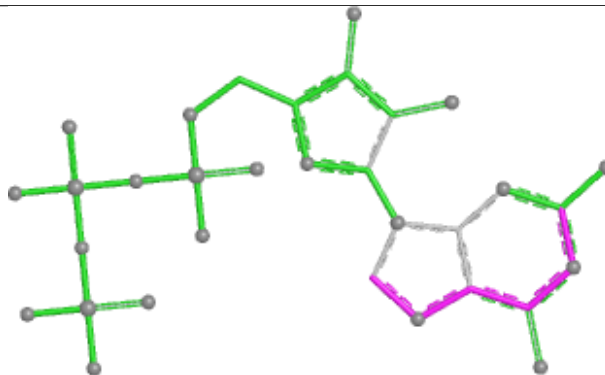


Rings

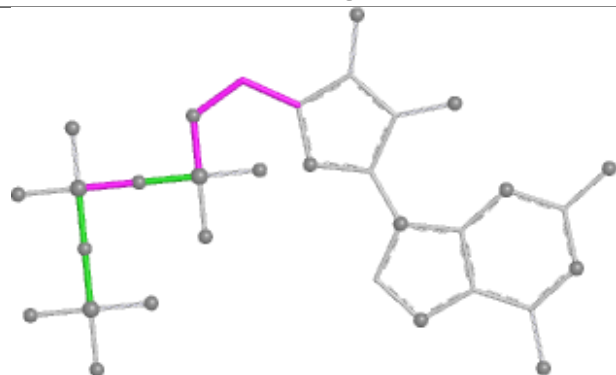
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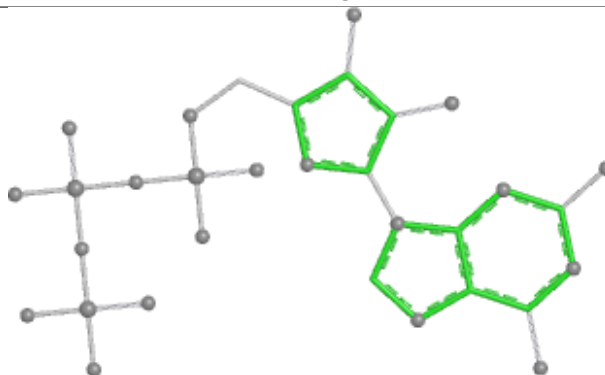
Bond lengths



Bond angles

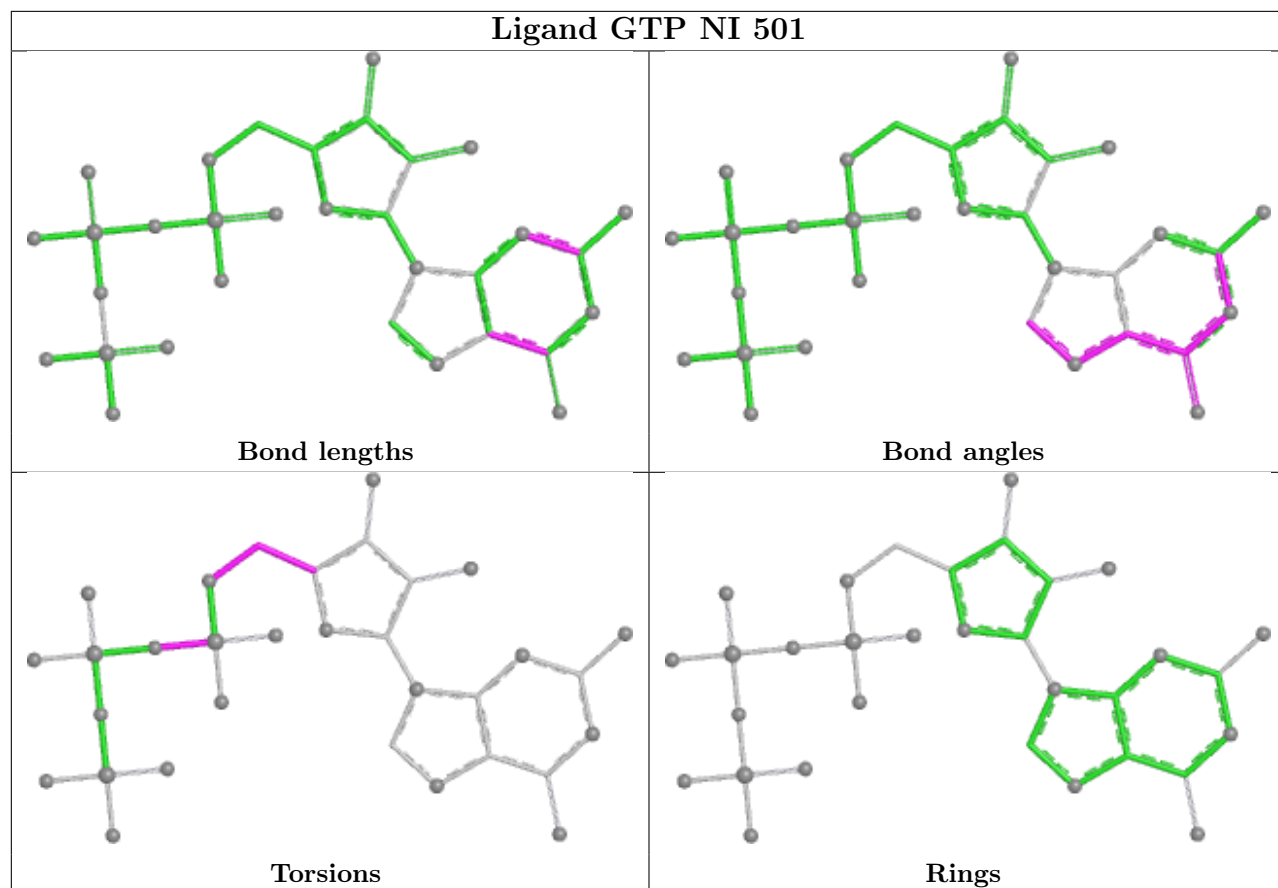


Torsions

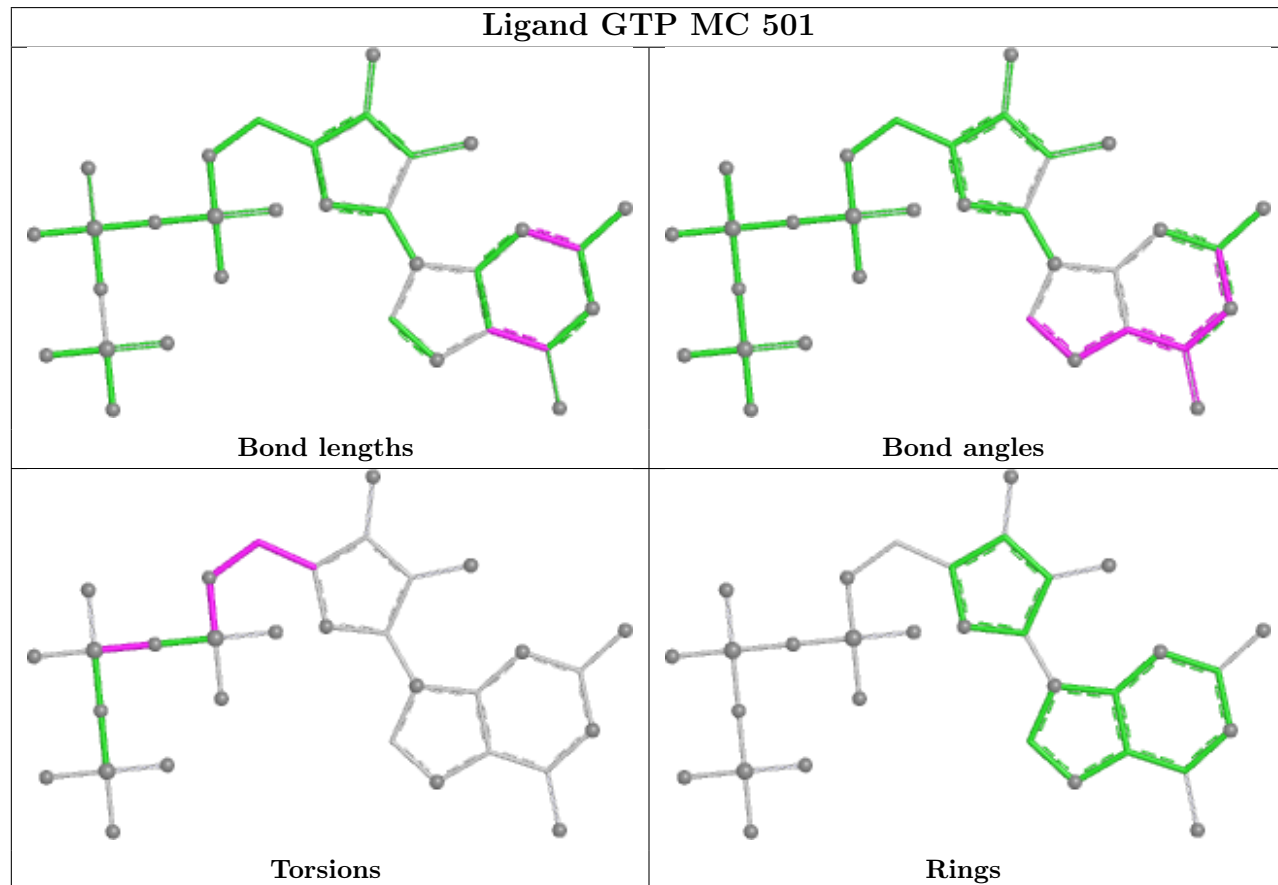


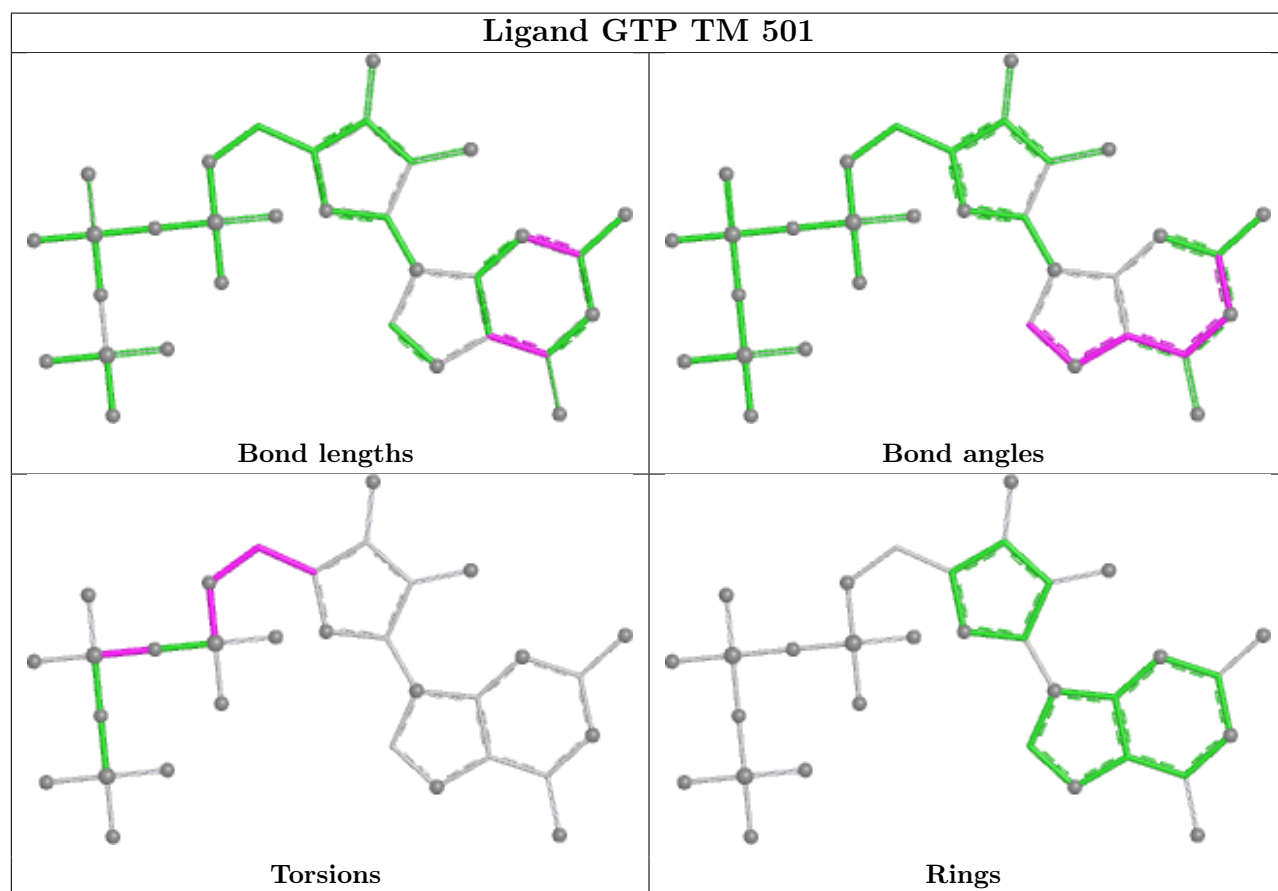
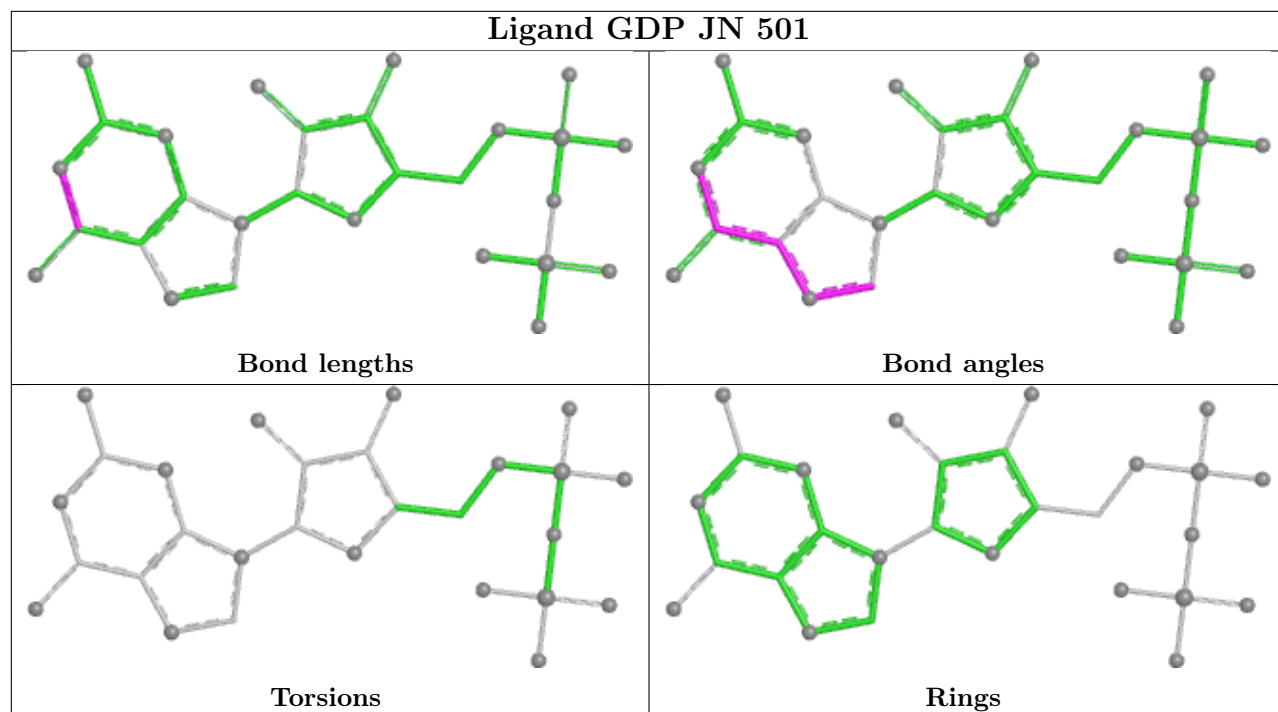
Rings

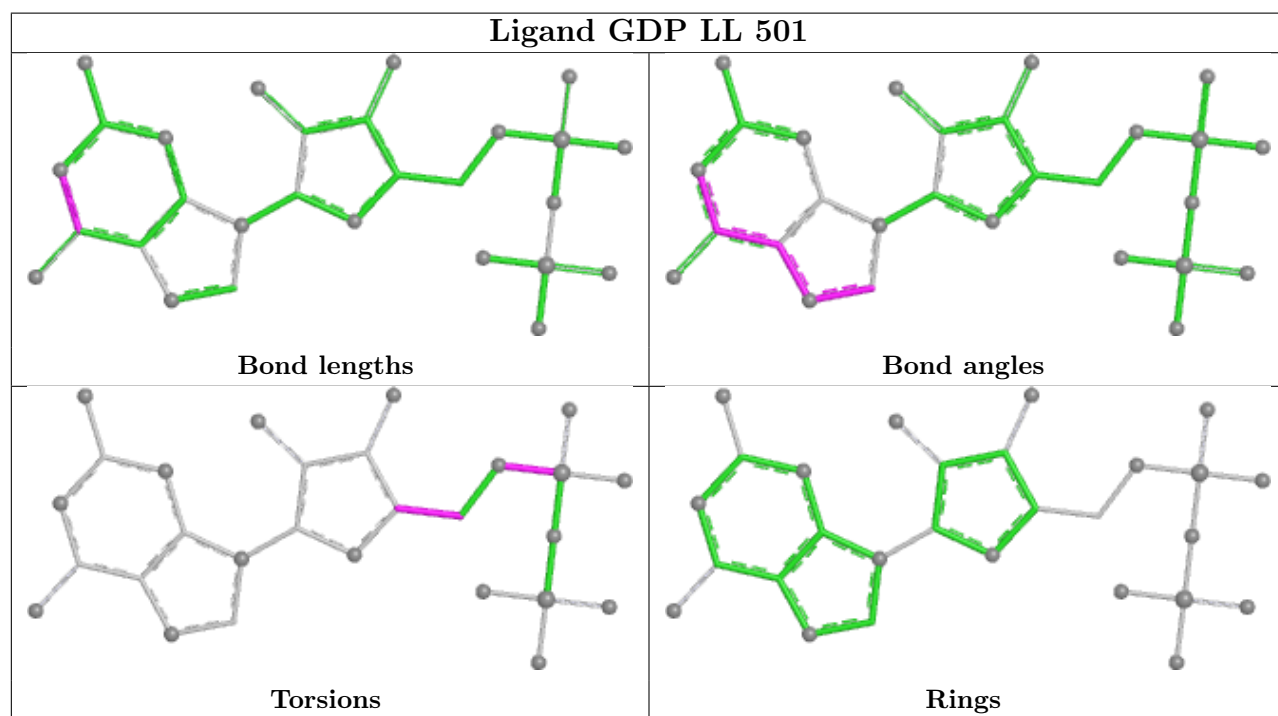
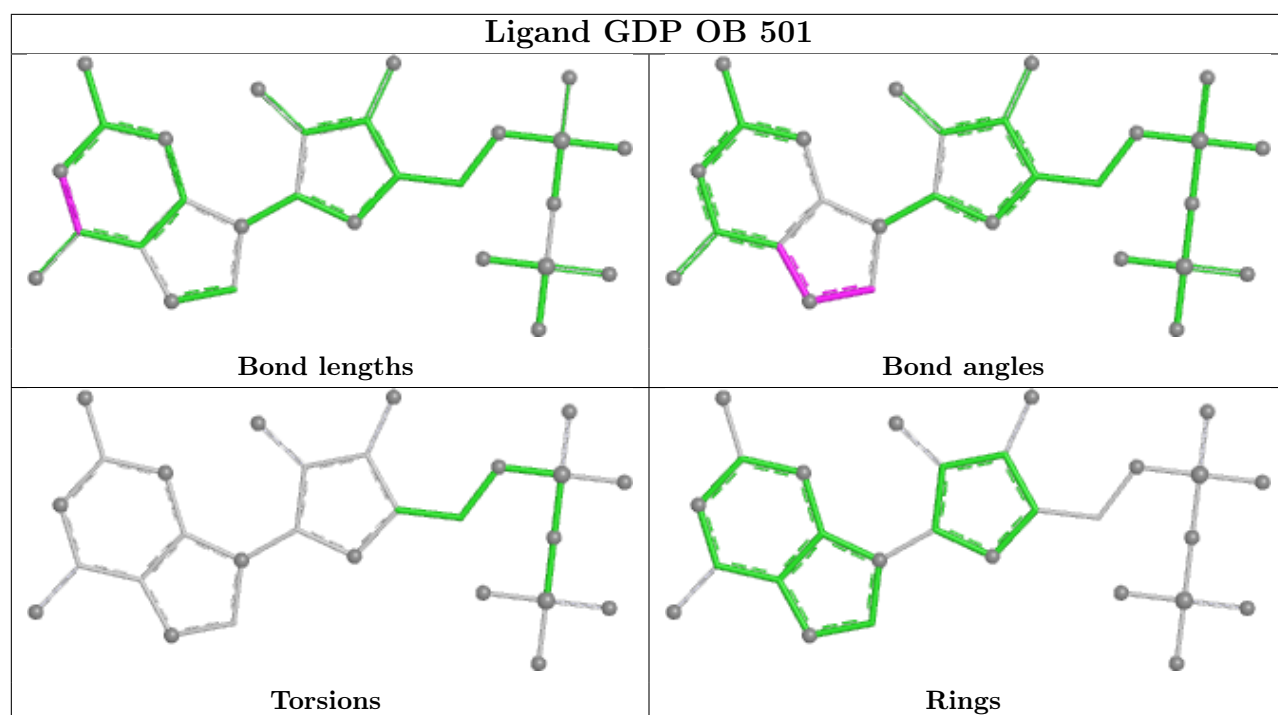
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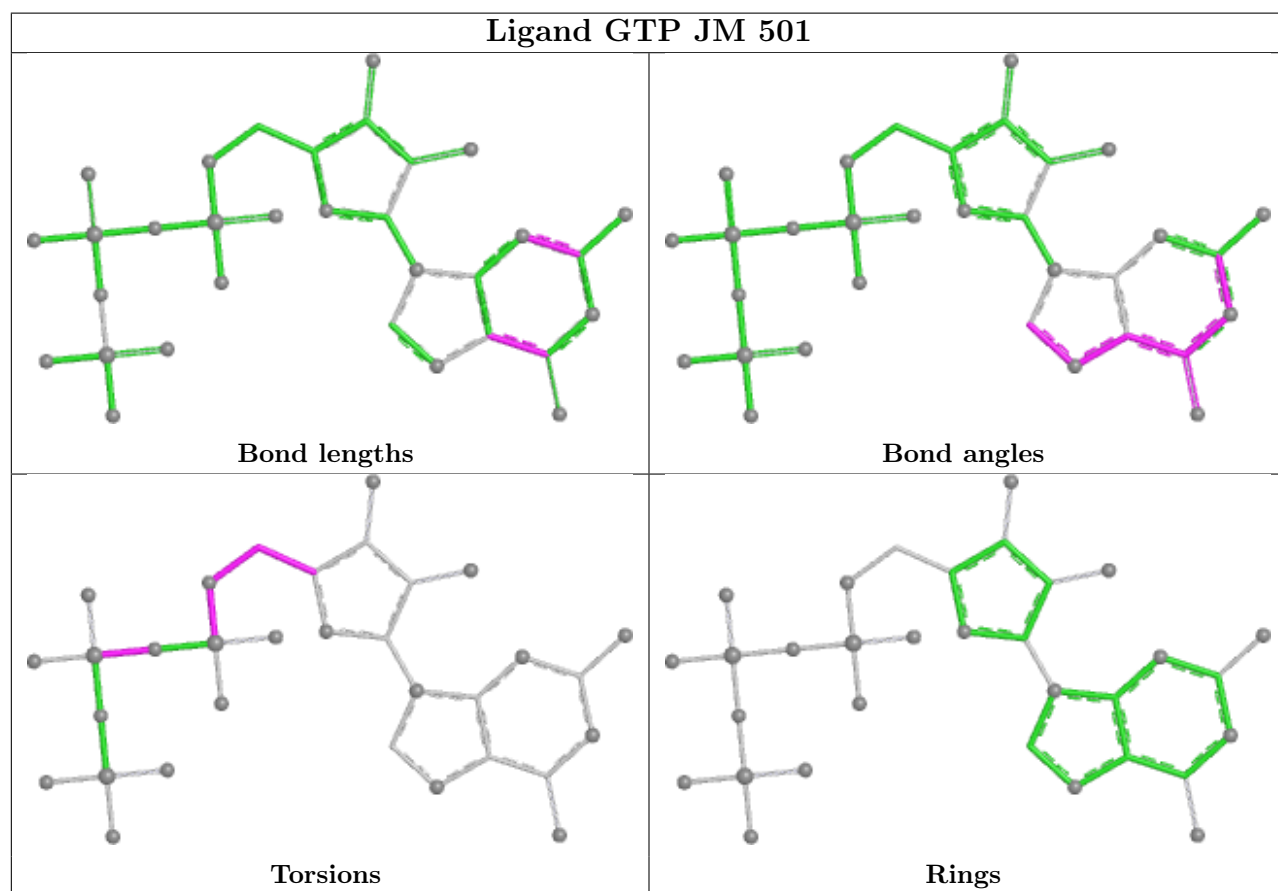
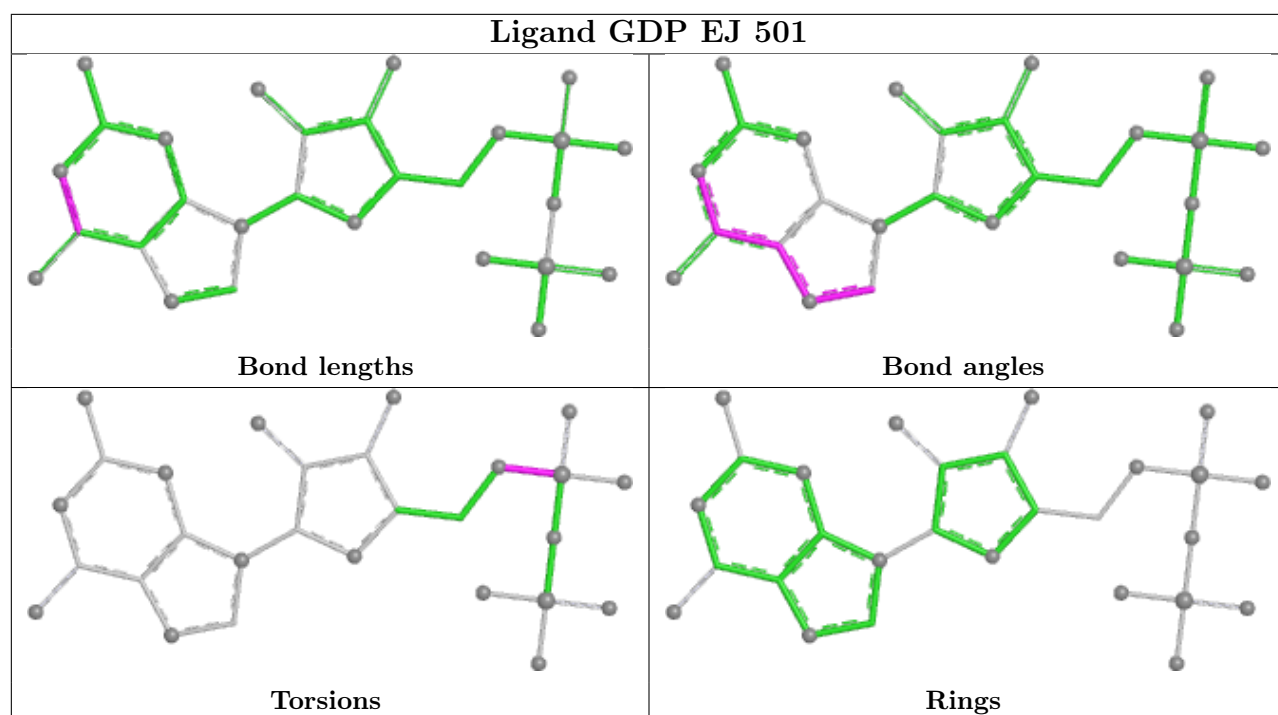


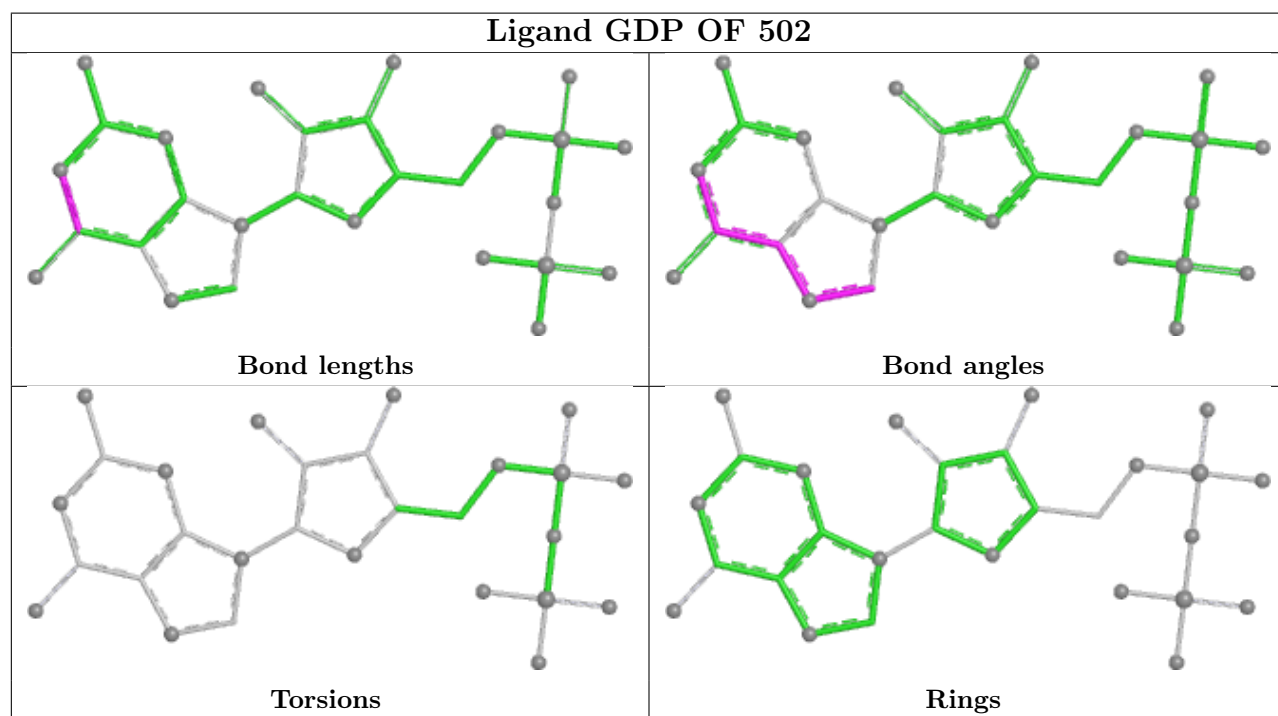
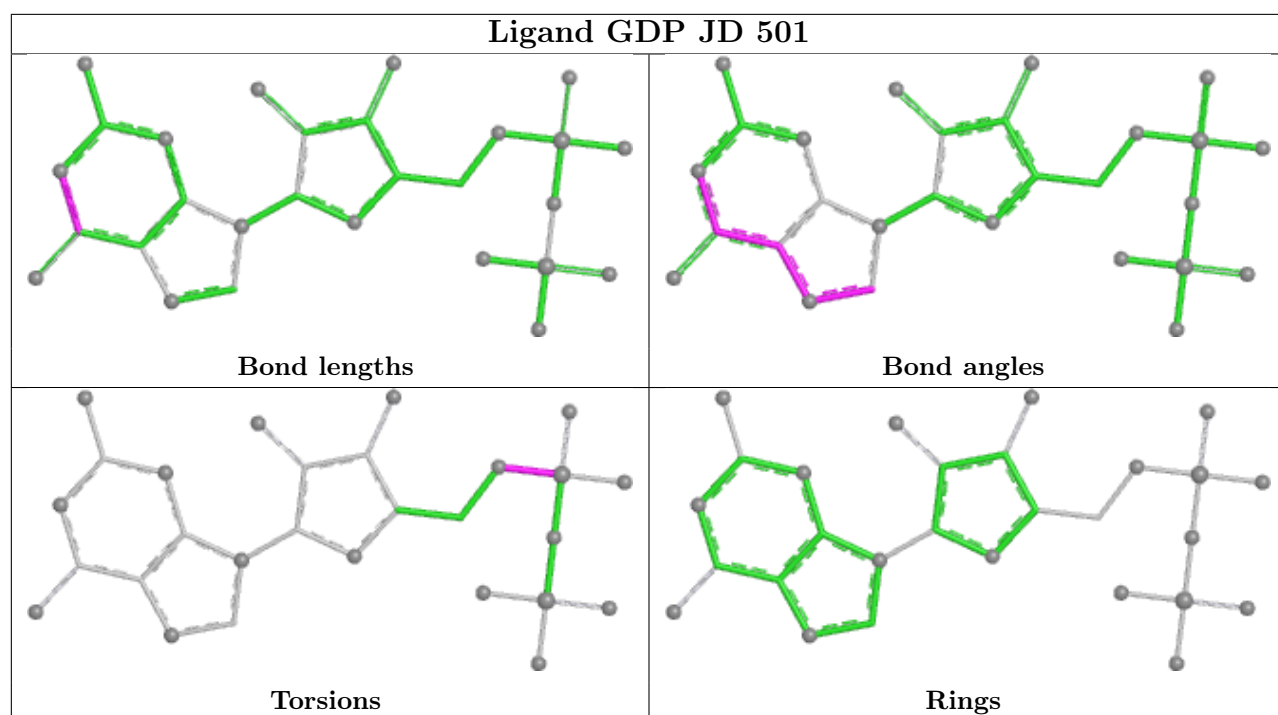
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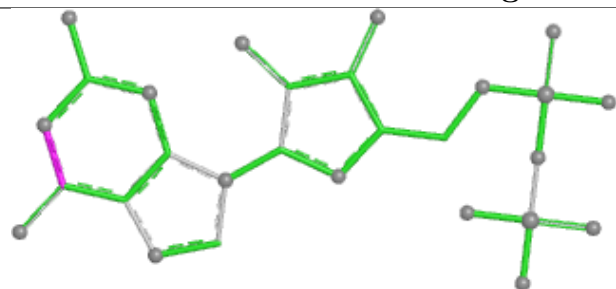




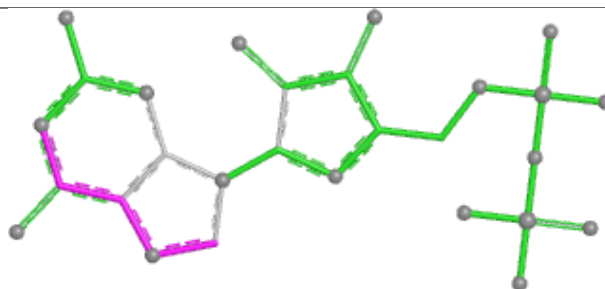




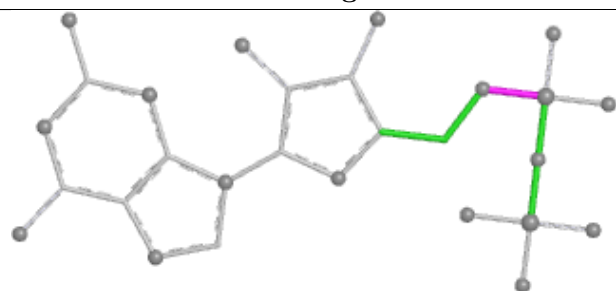
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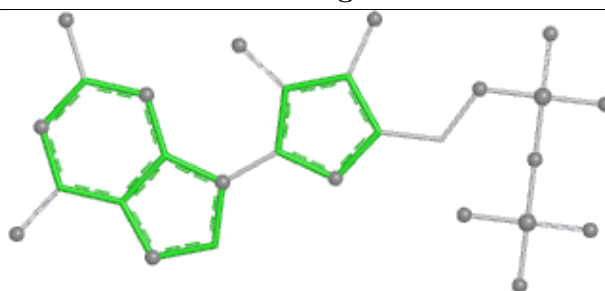
Bond lengths



Bond angles

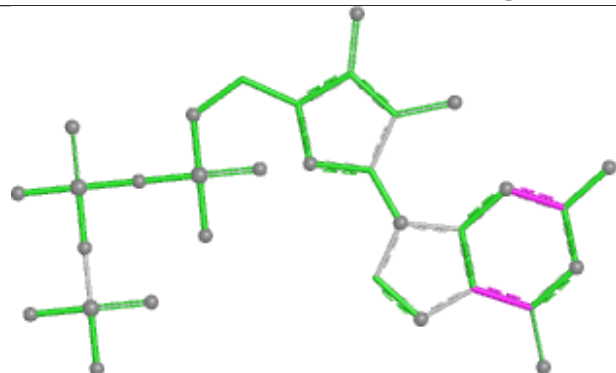


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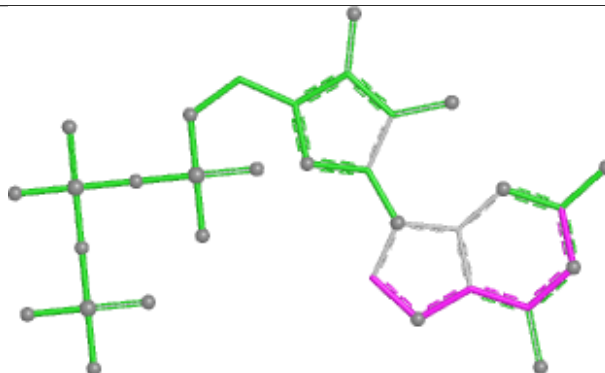


Rings

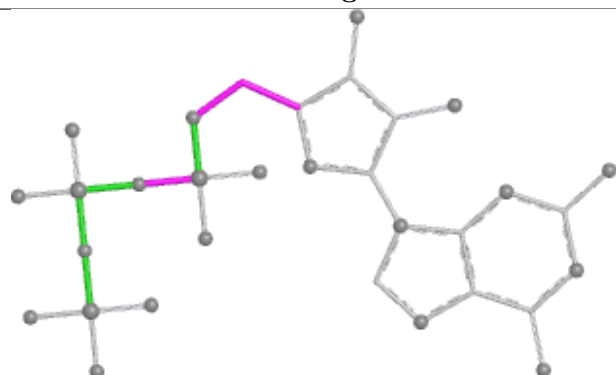
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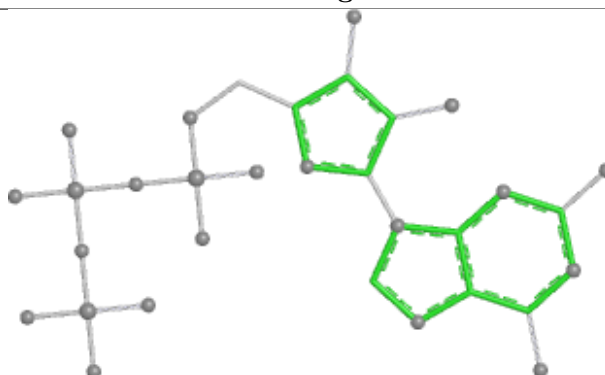
Bond lengths



Bond angles

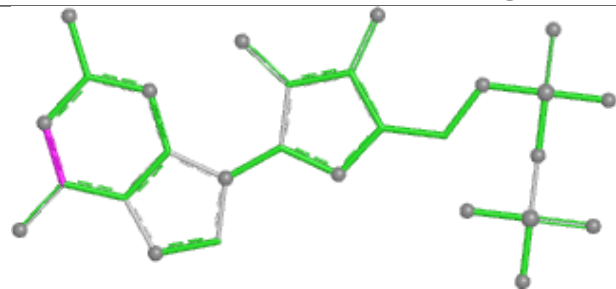


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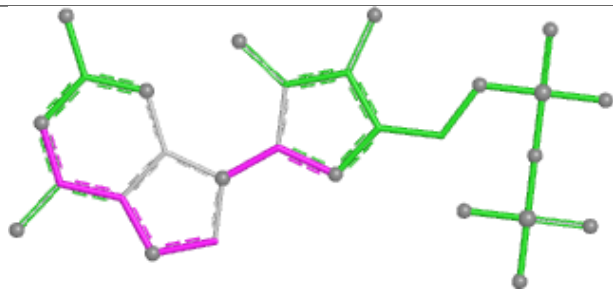


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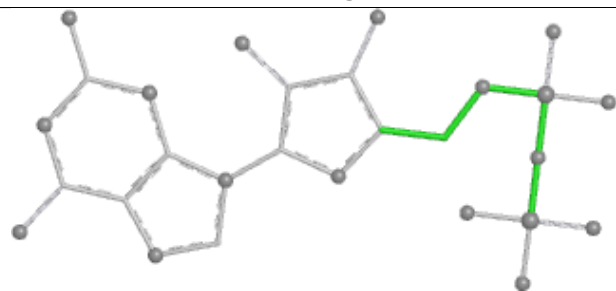
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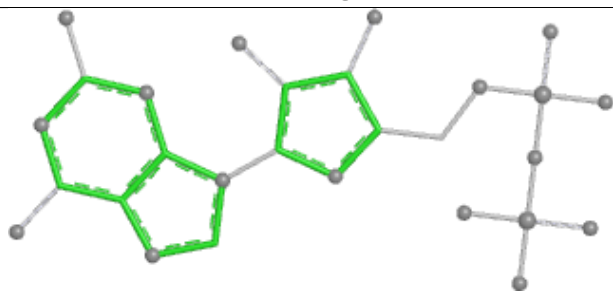
Bond lengths



Bond angles

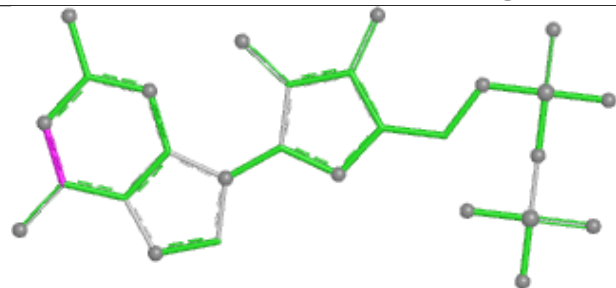


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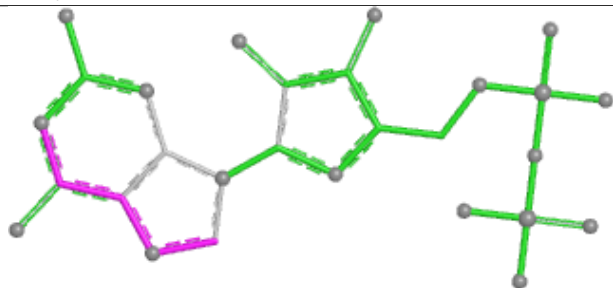


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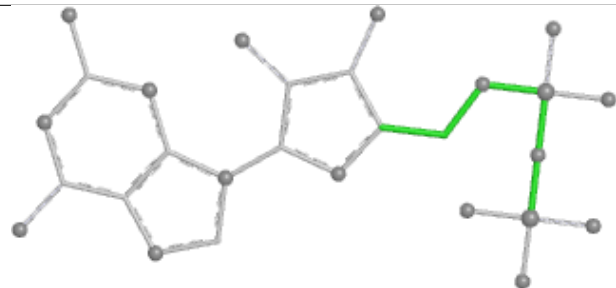
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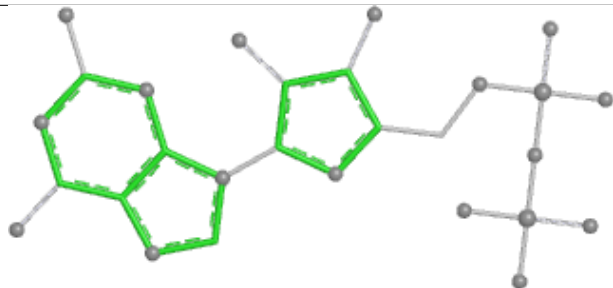
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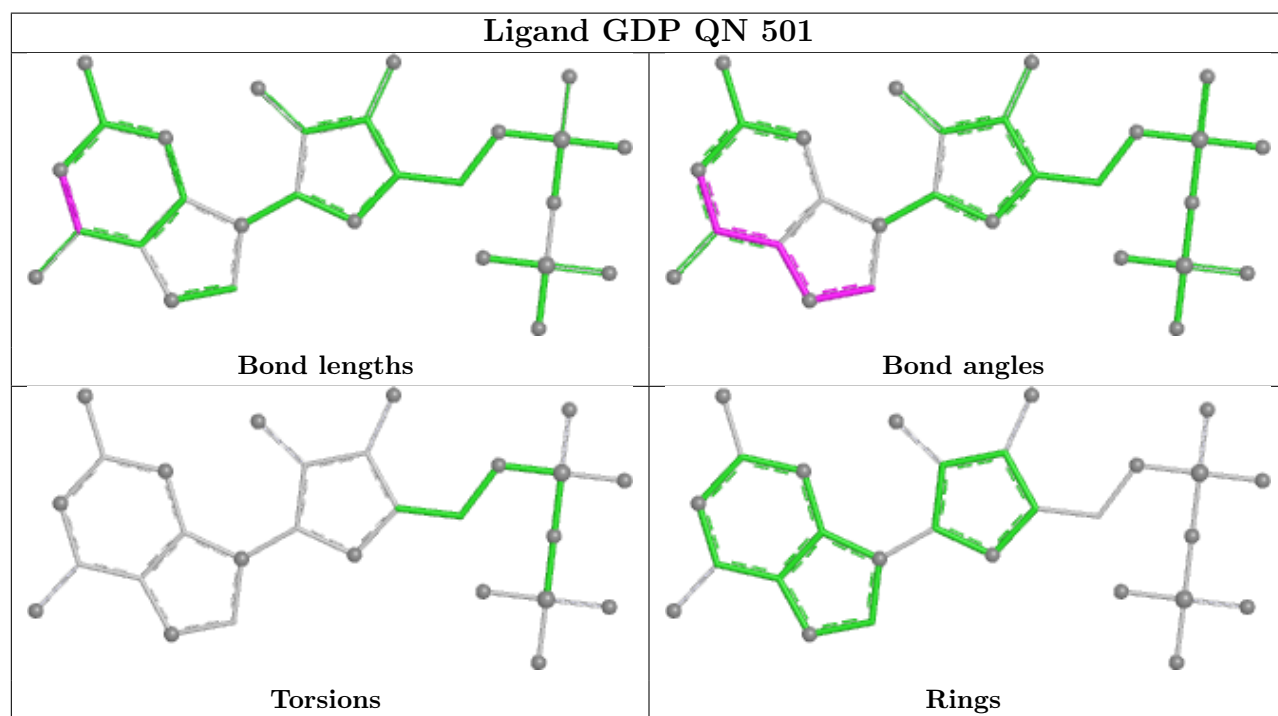
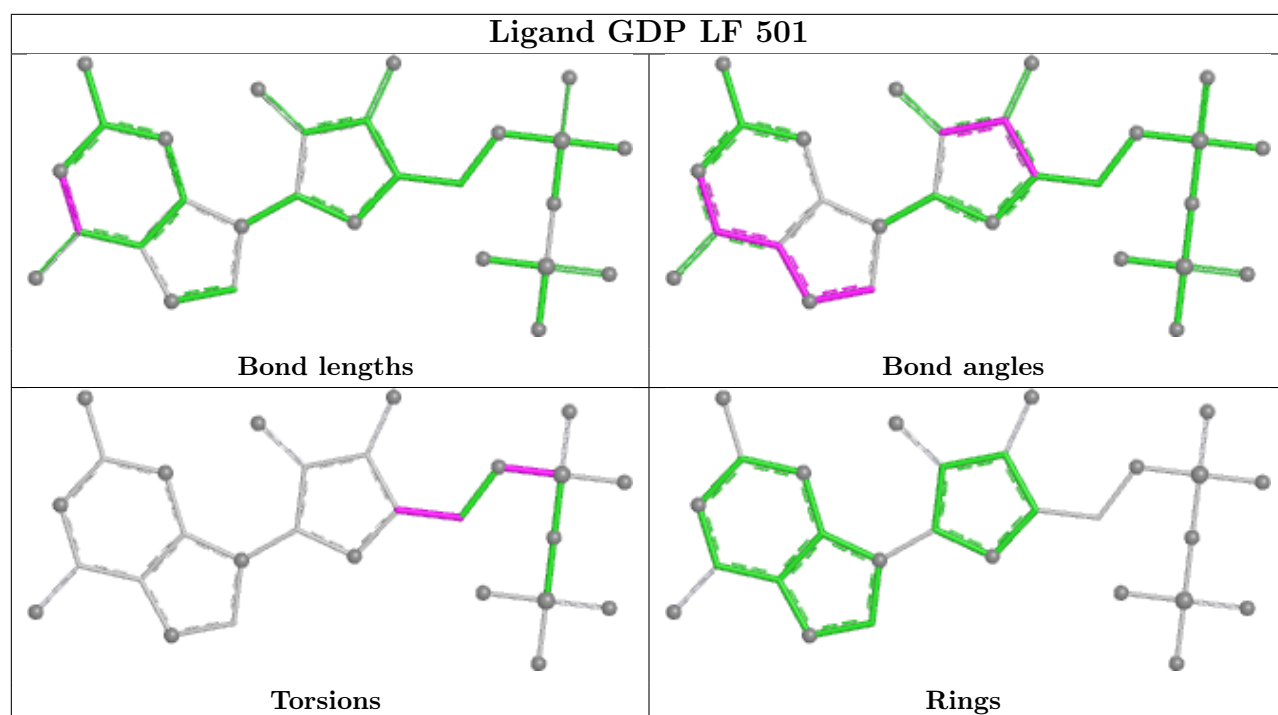
Bond angles



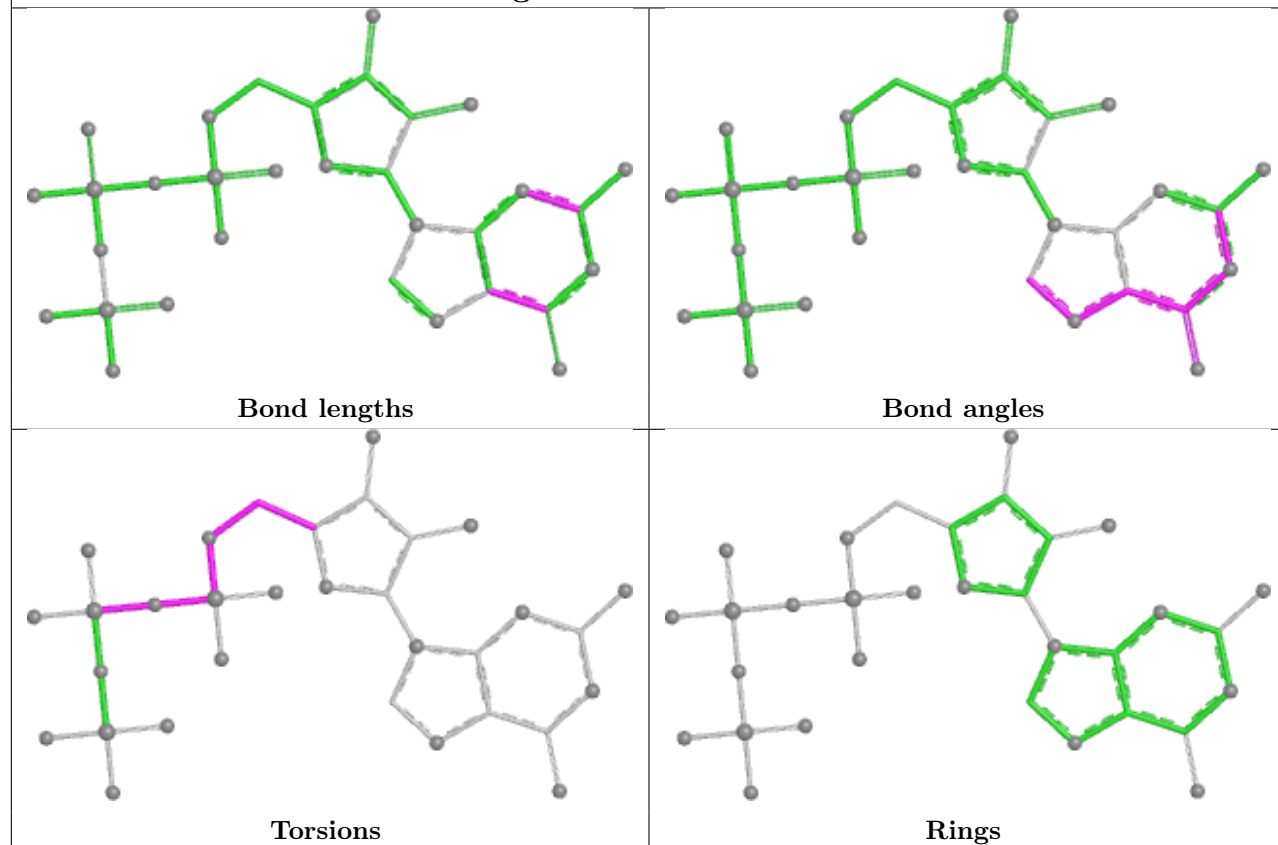
Torsions



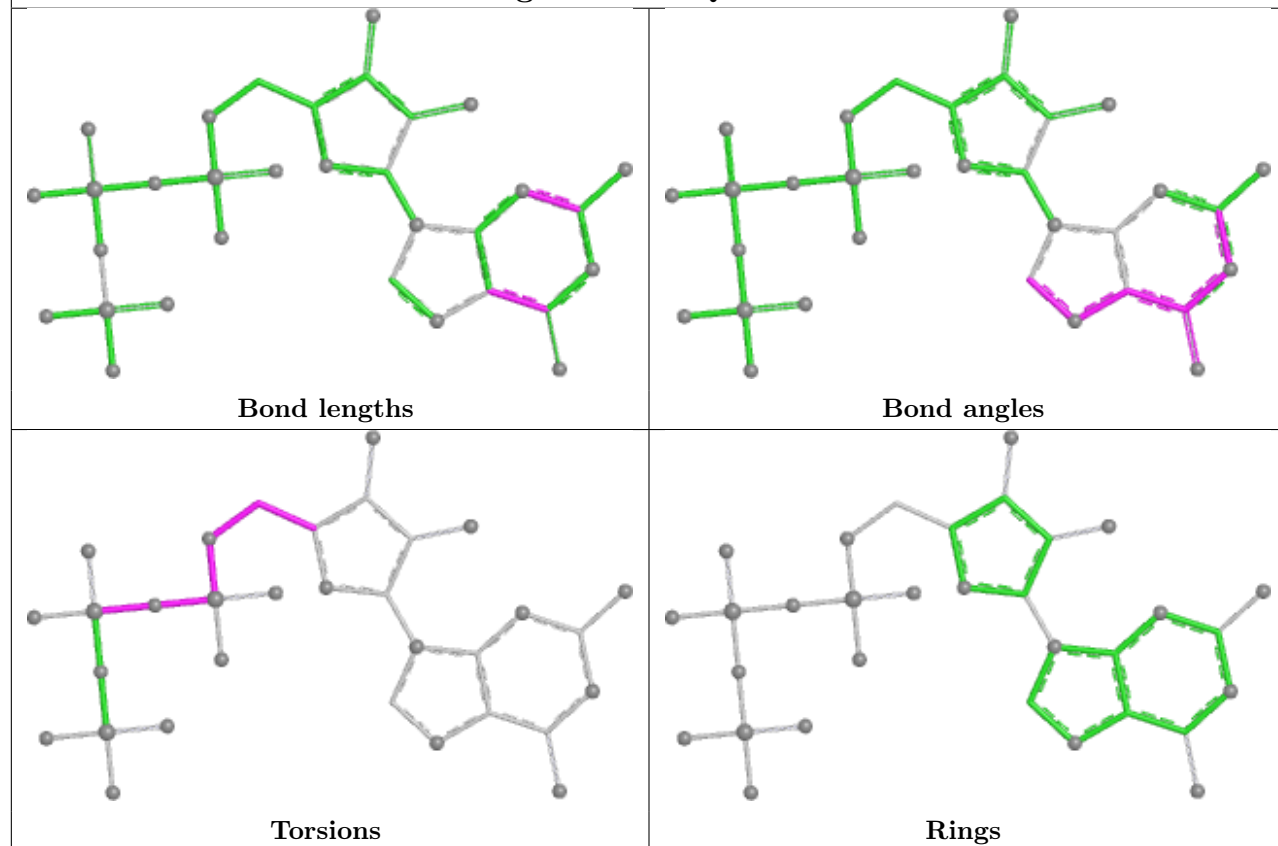
Rings



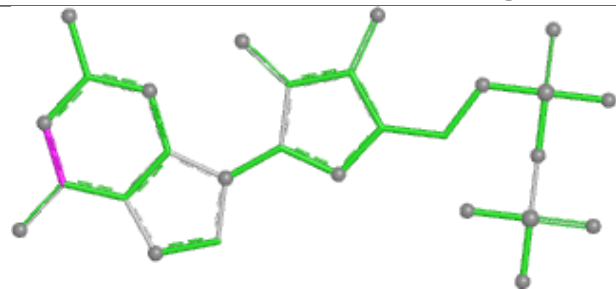
Ligand GTP GM 501



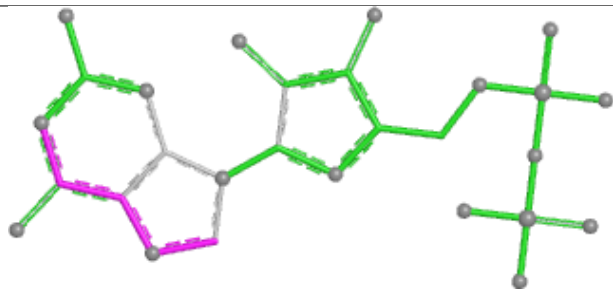
Ligand GTP QK 501



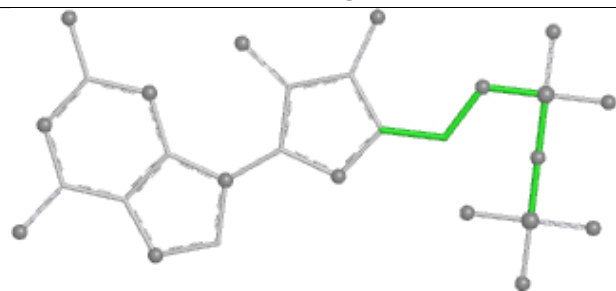
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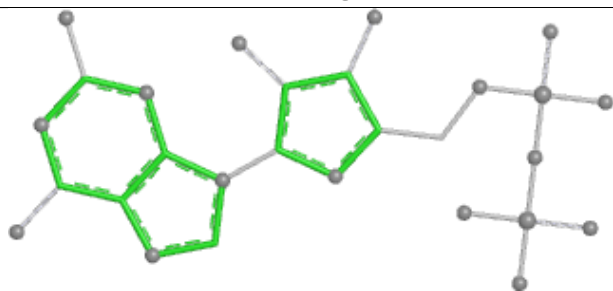
Bond lengths



Bond angles

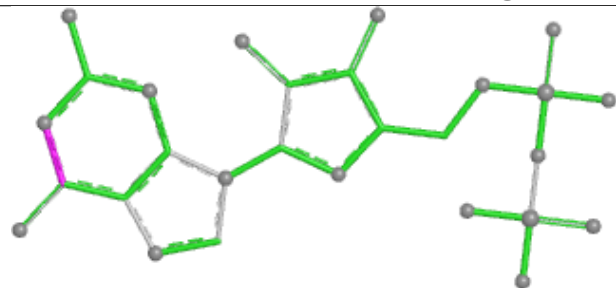


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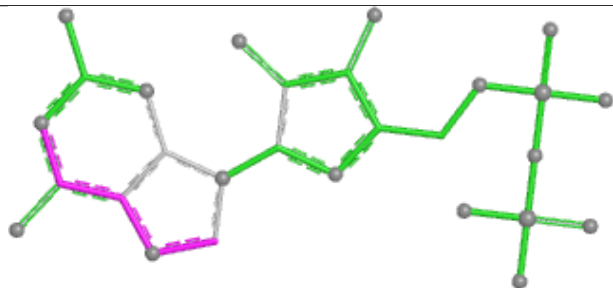


Rings

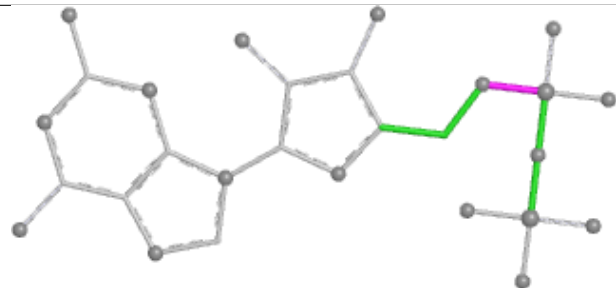
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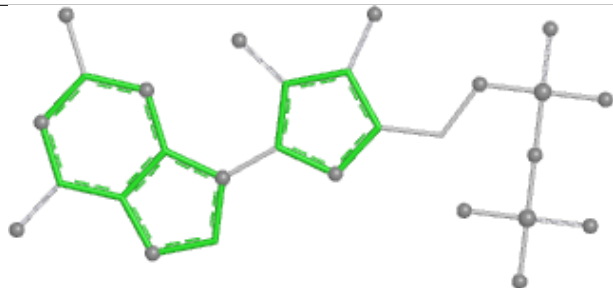
Bond lengths



Bond angles

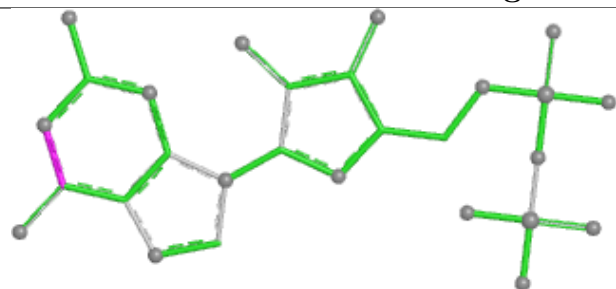


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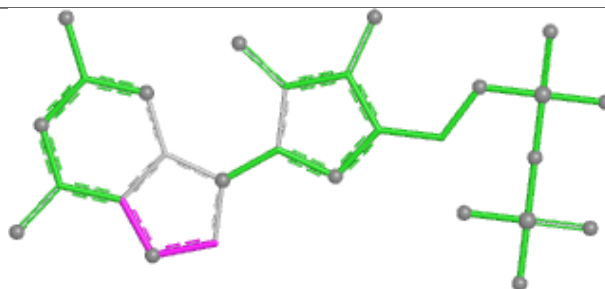


Rings

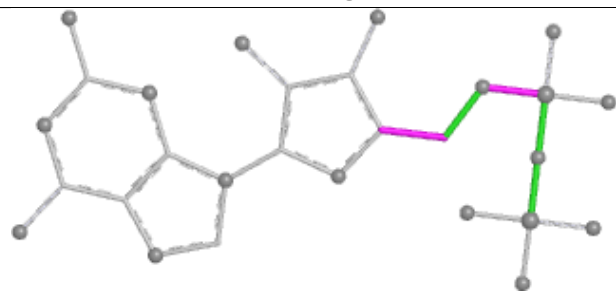
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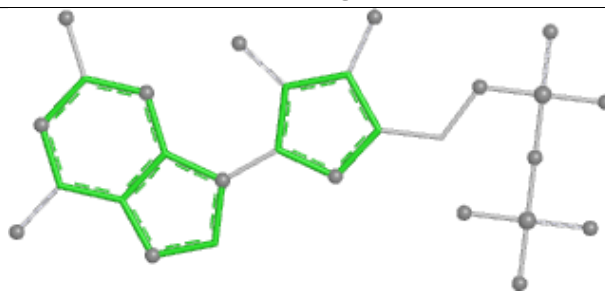
Bond lengths



Bond angles

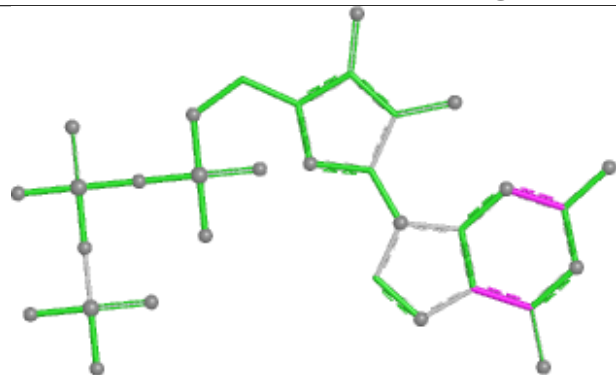


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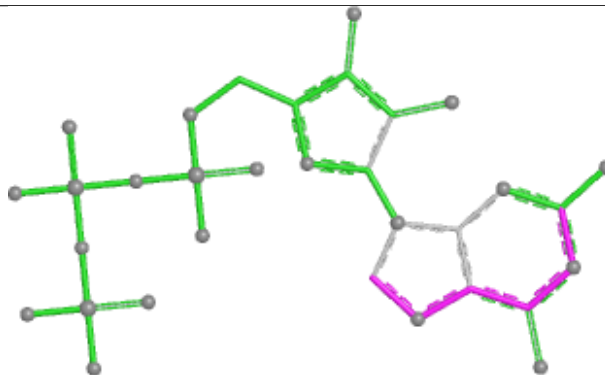


Rings

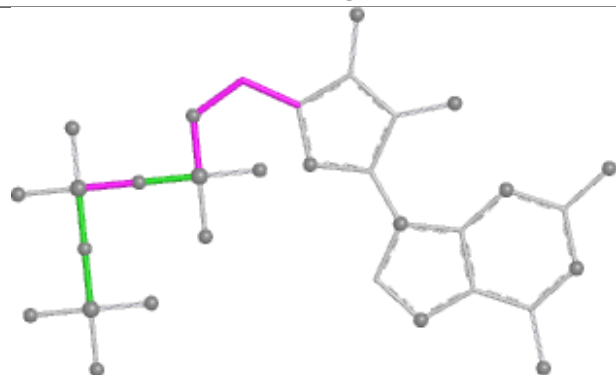
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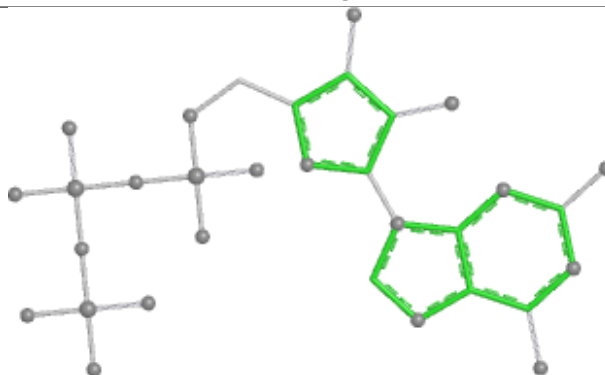
Bond lengths



Bond angles

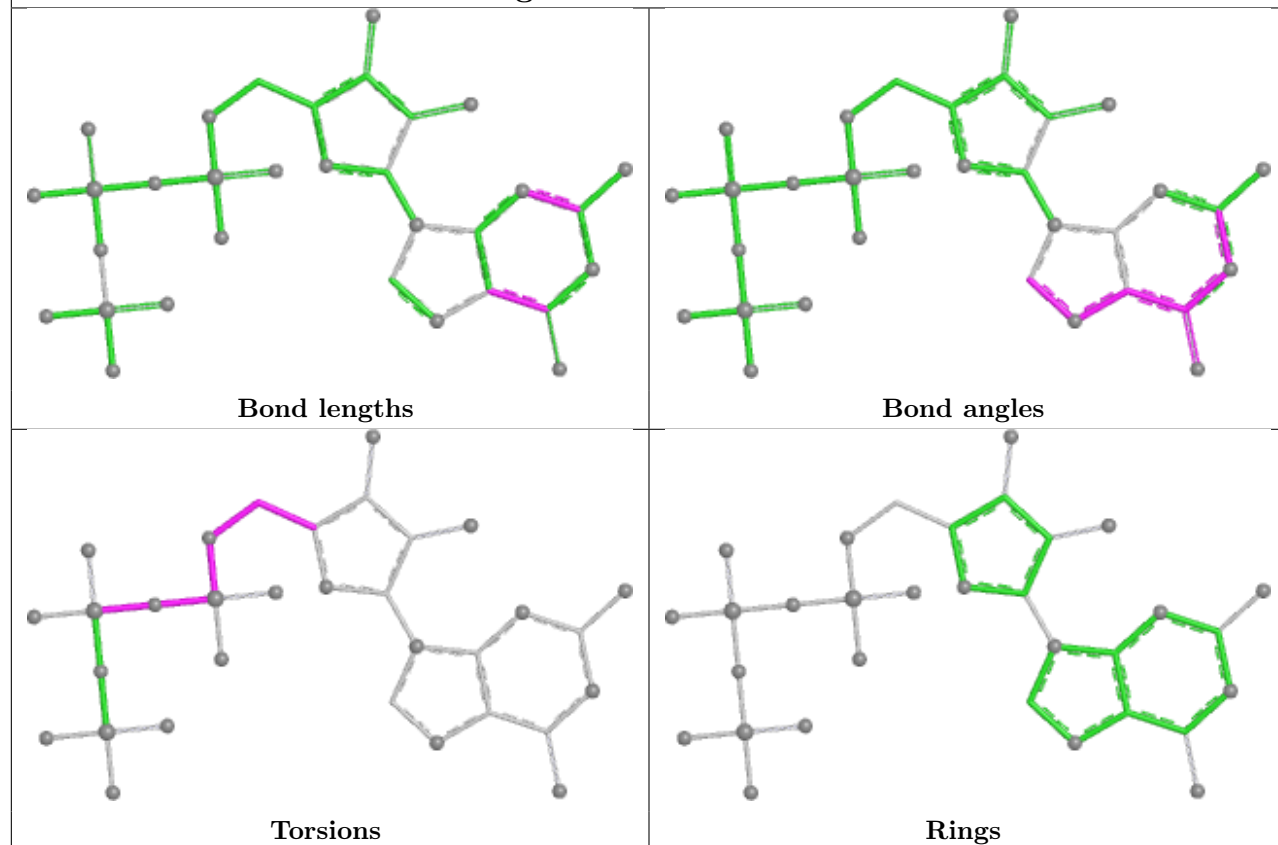


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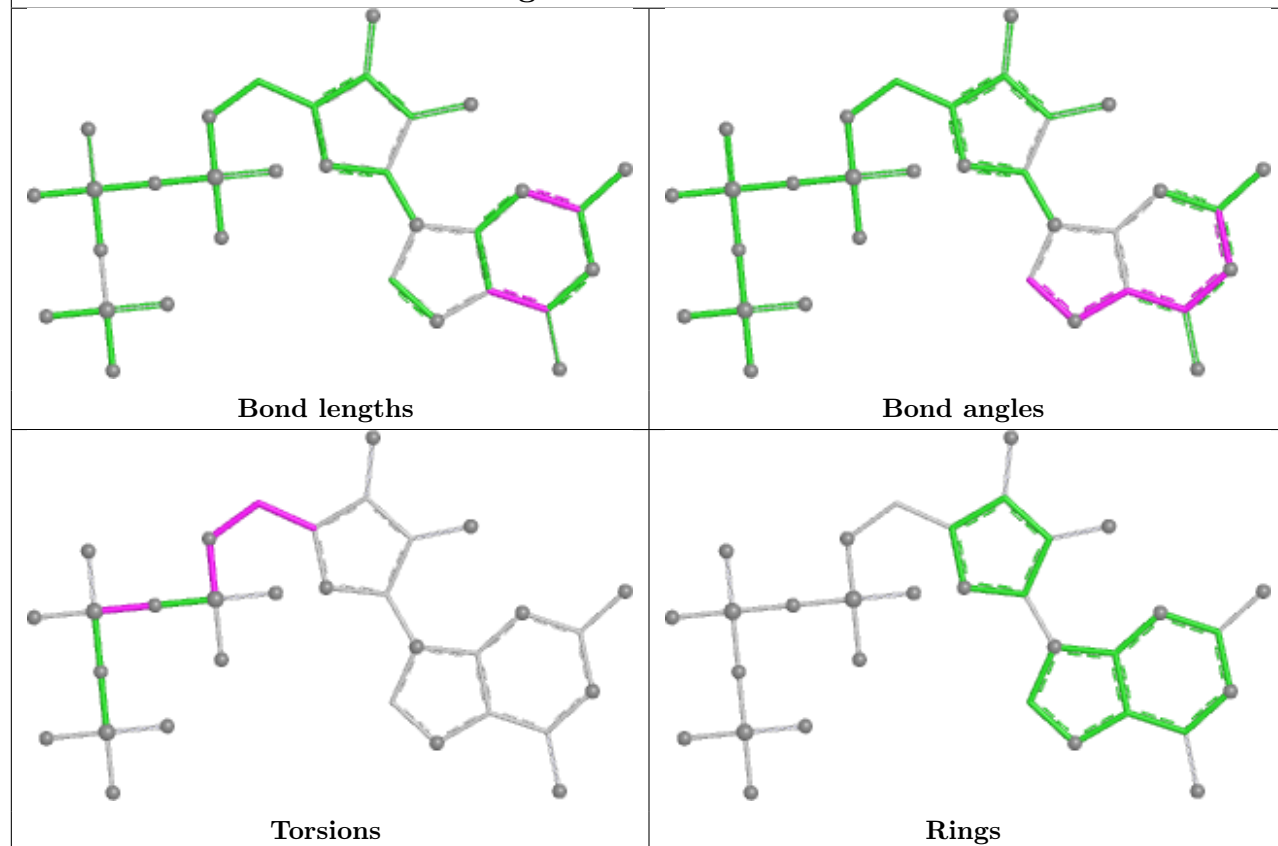


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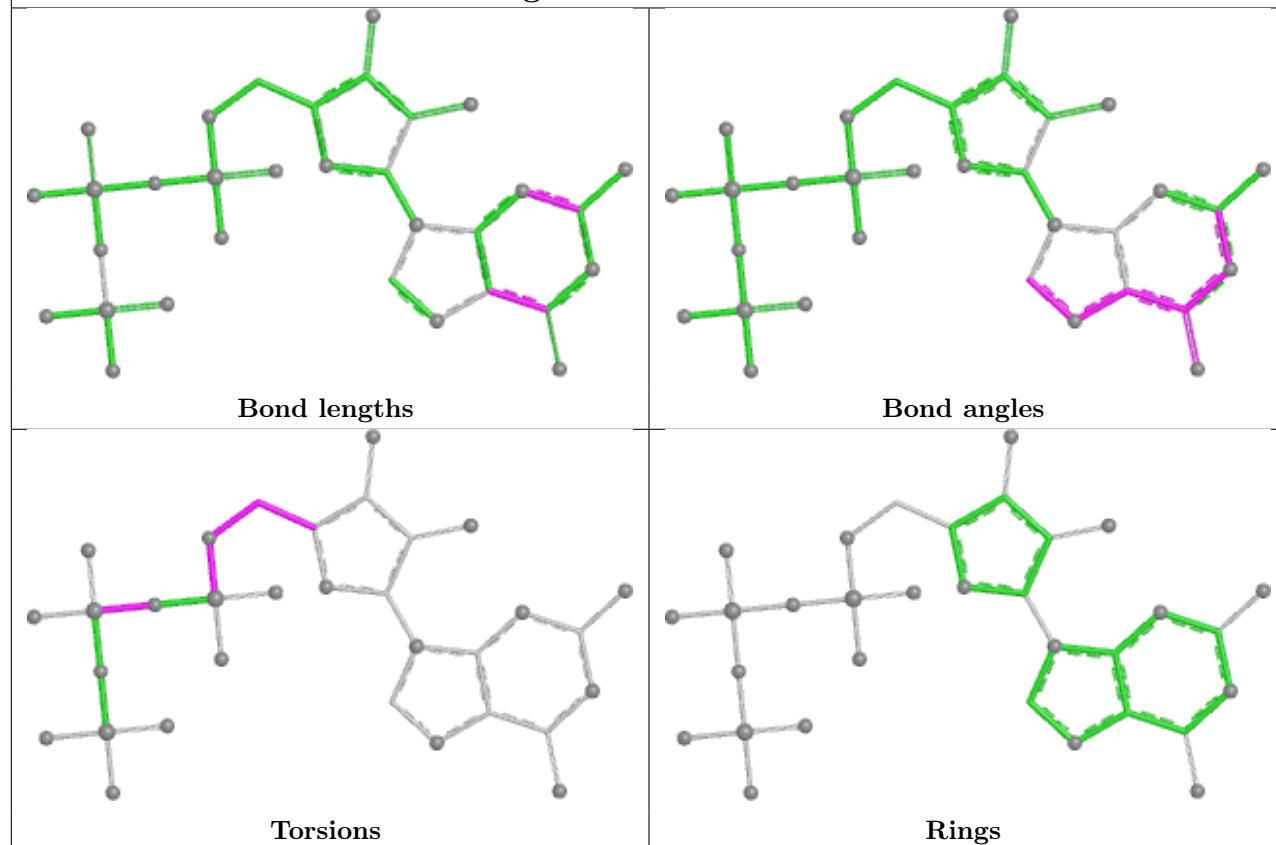
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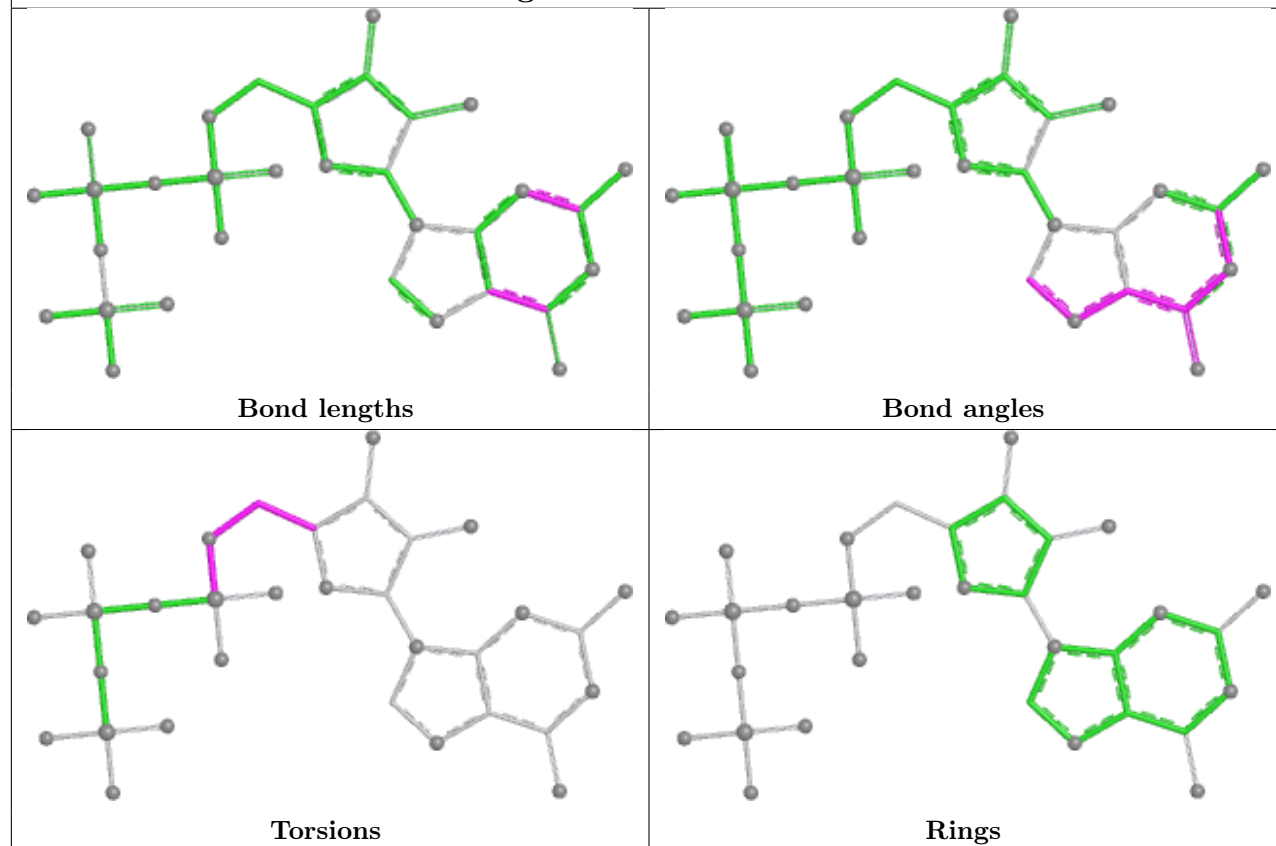
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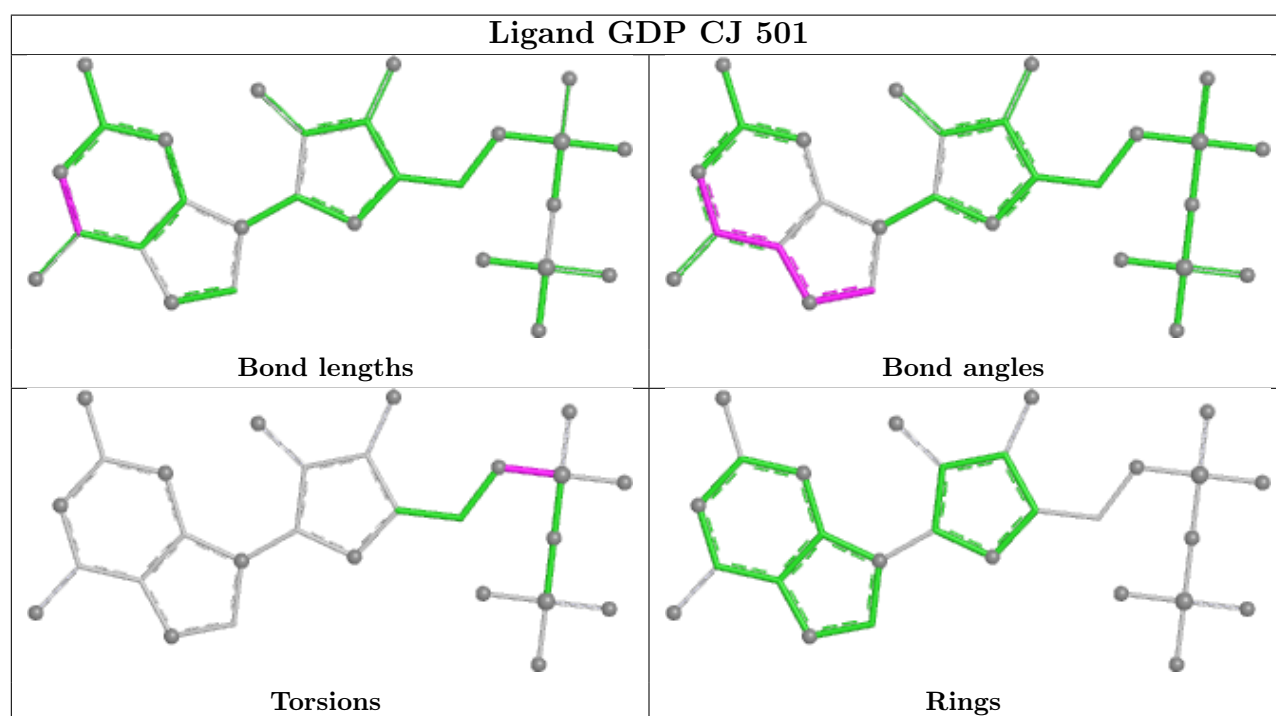
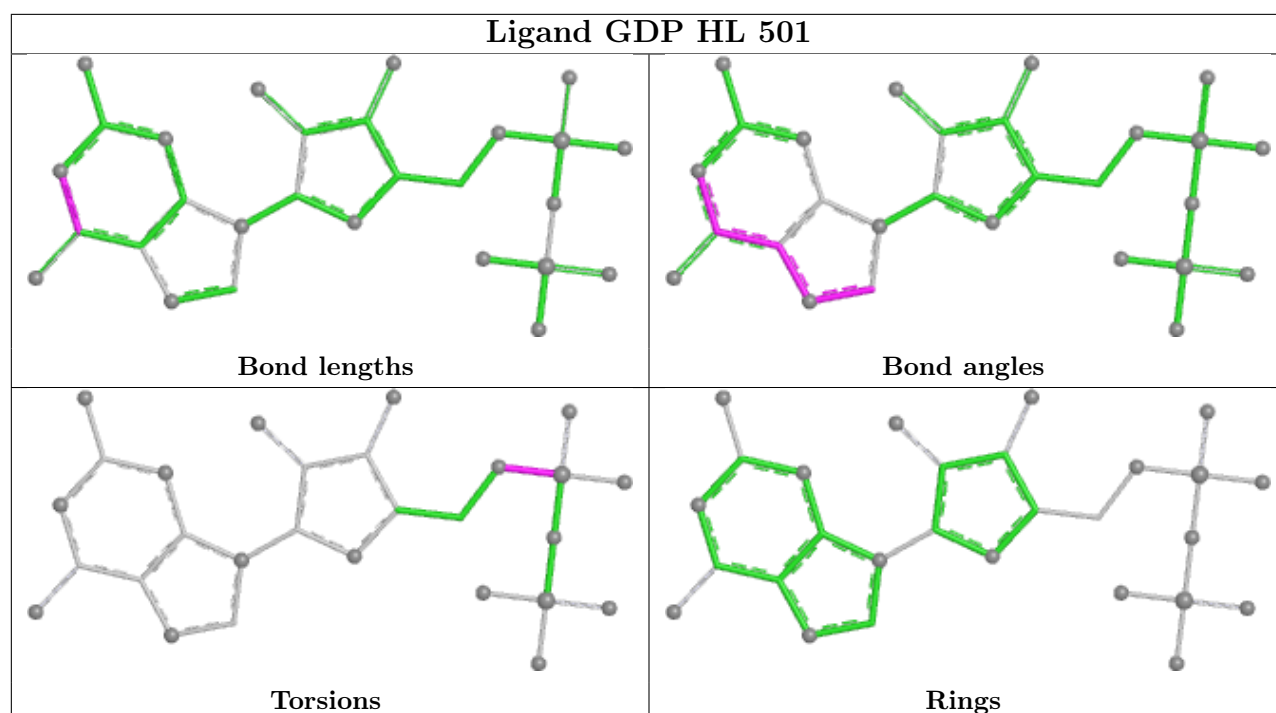


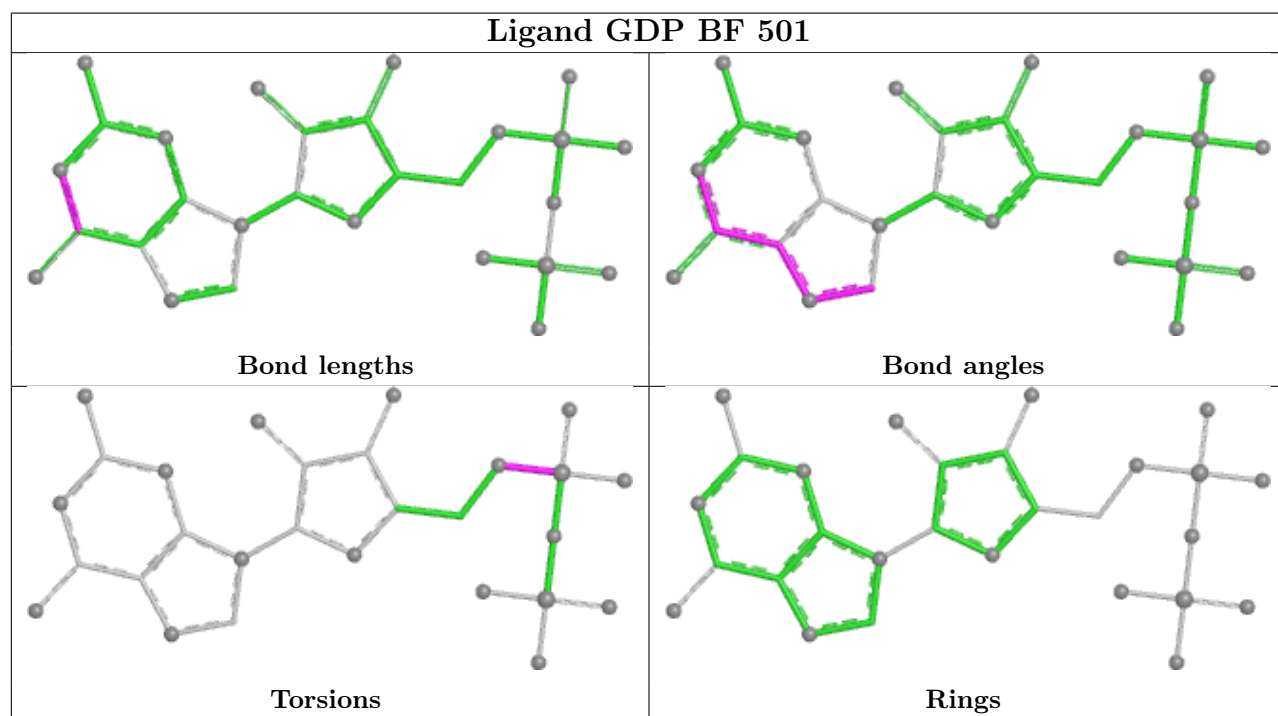
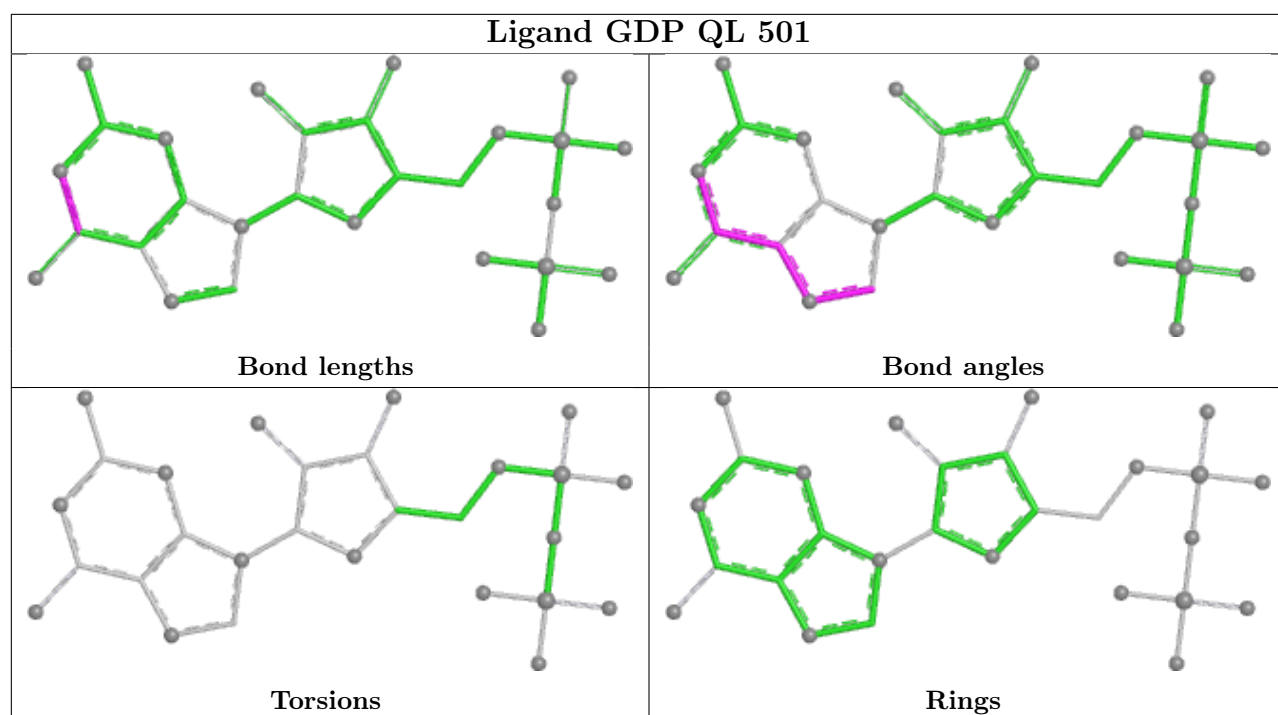
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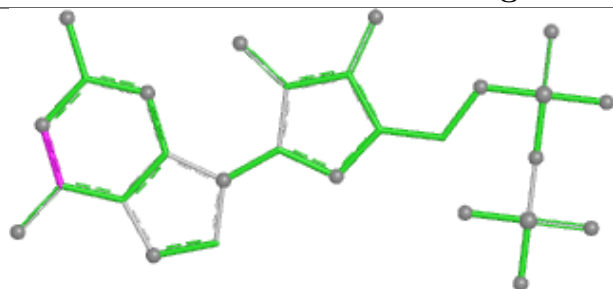
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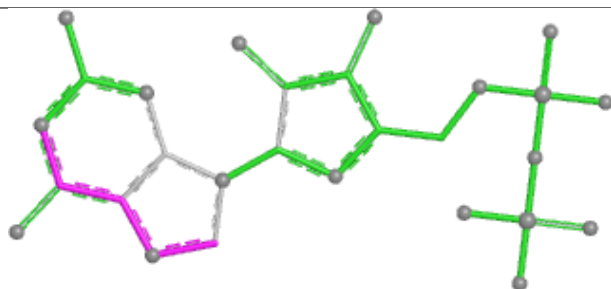




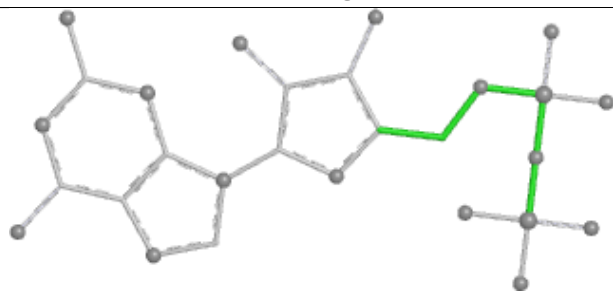
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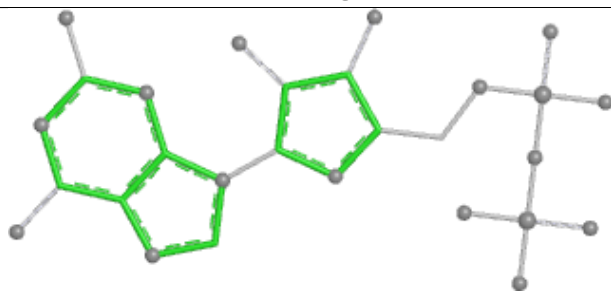
Bond lengths



Bond angles

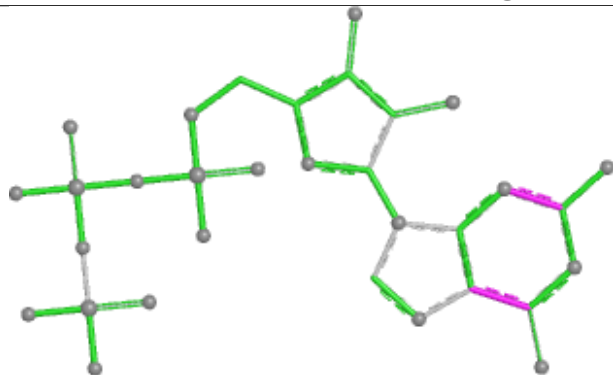


Torsions

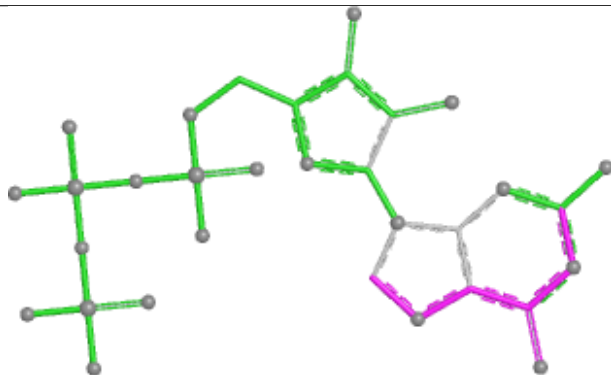


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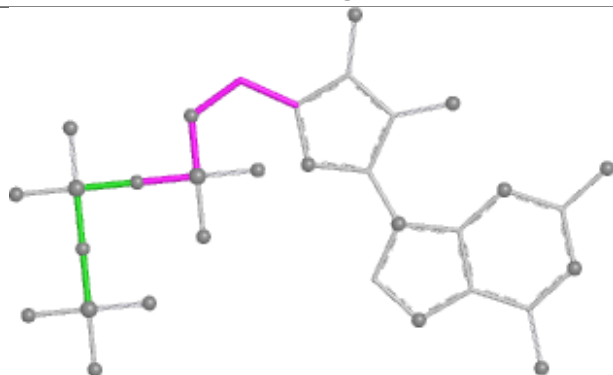
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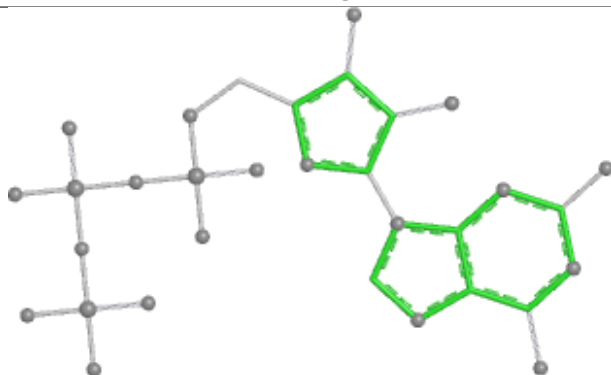
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Bond angles

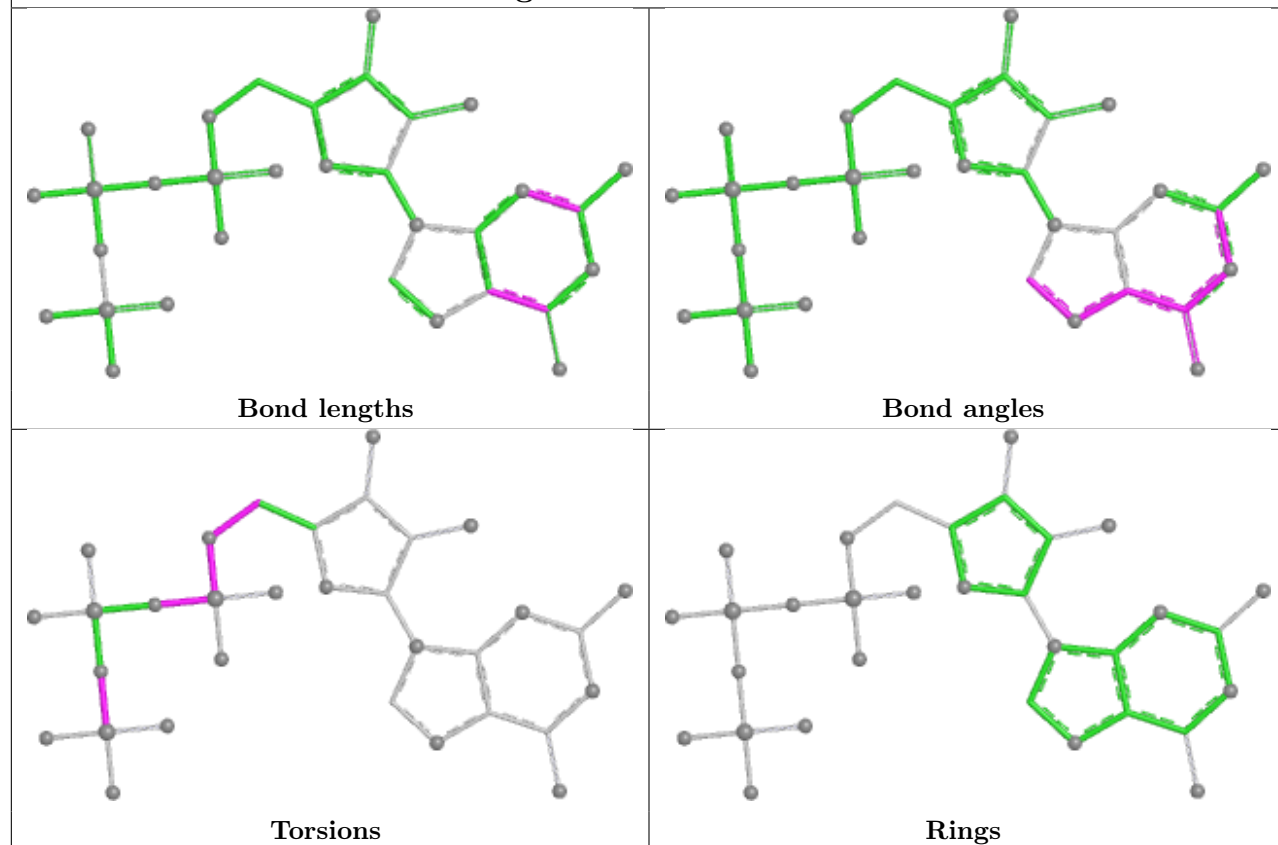


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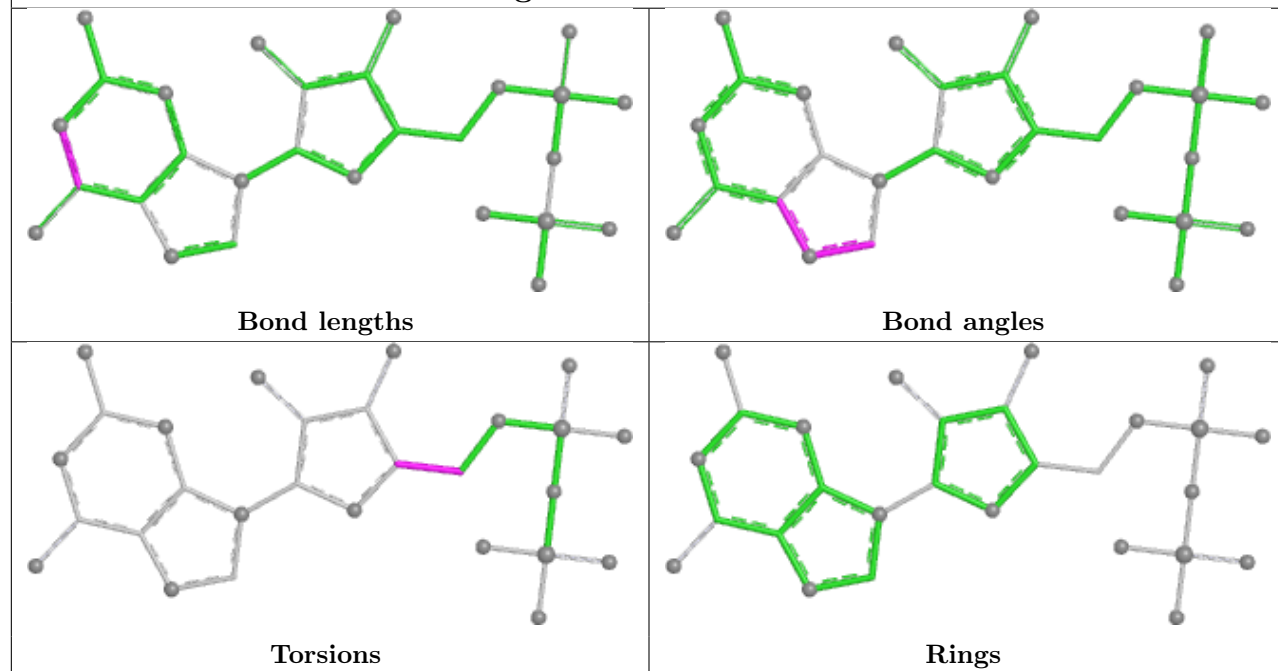


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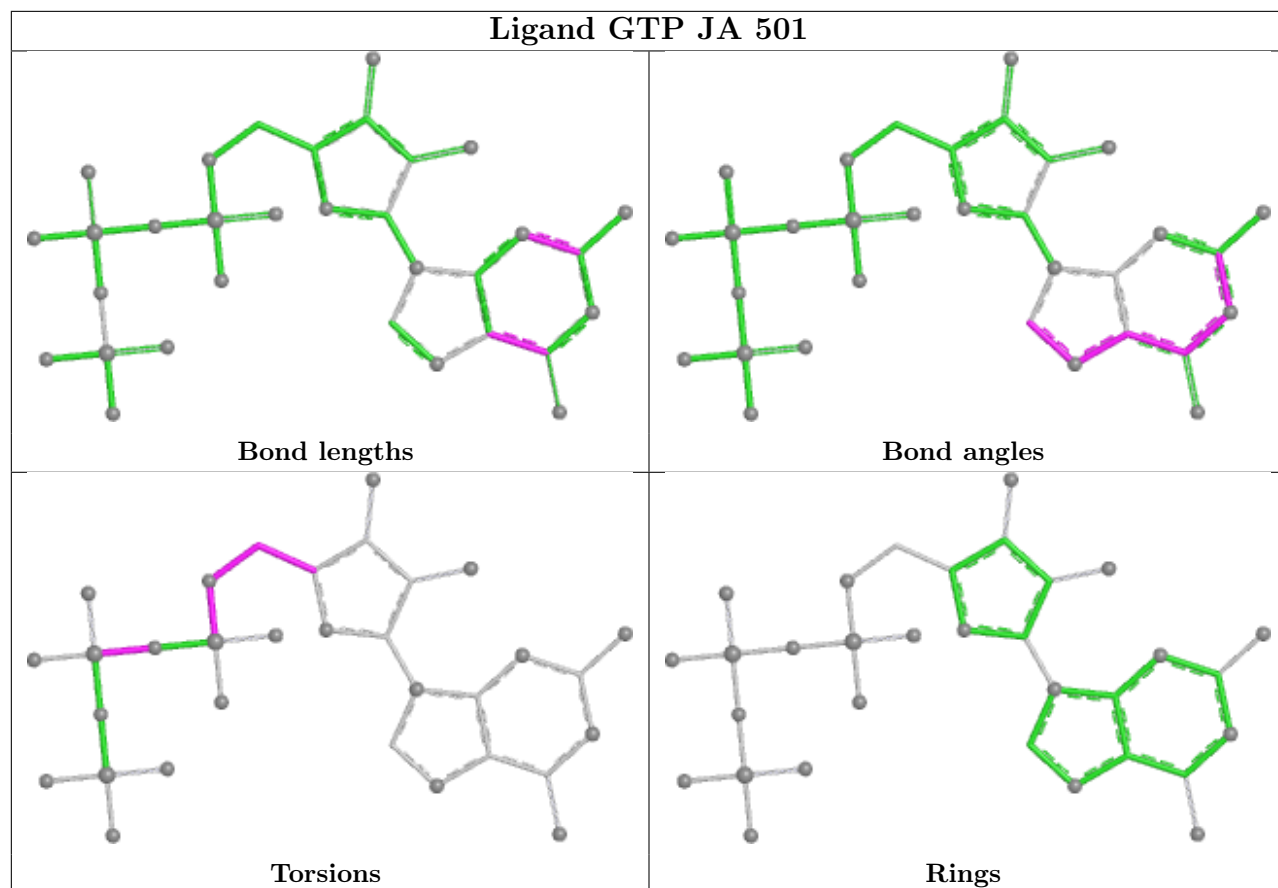
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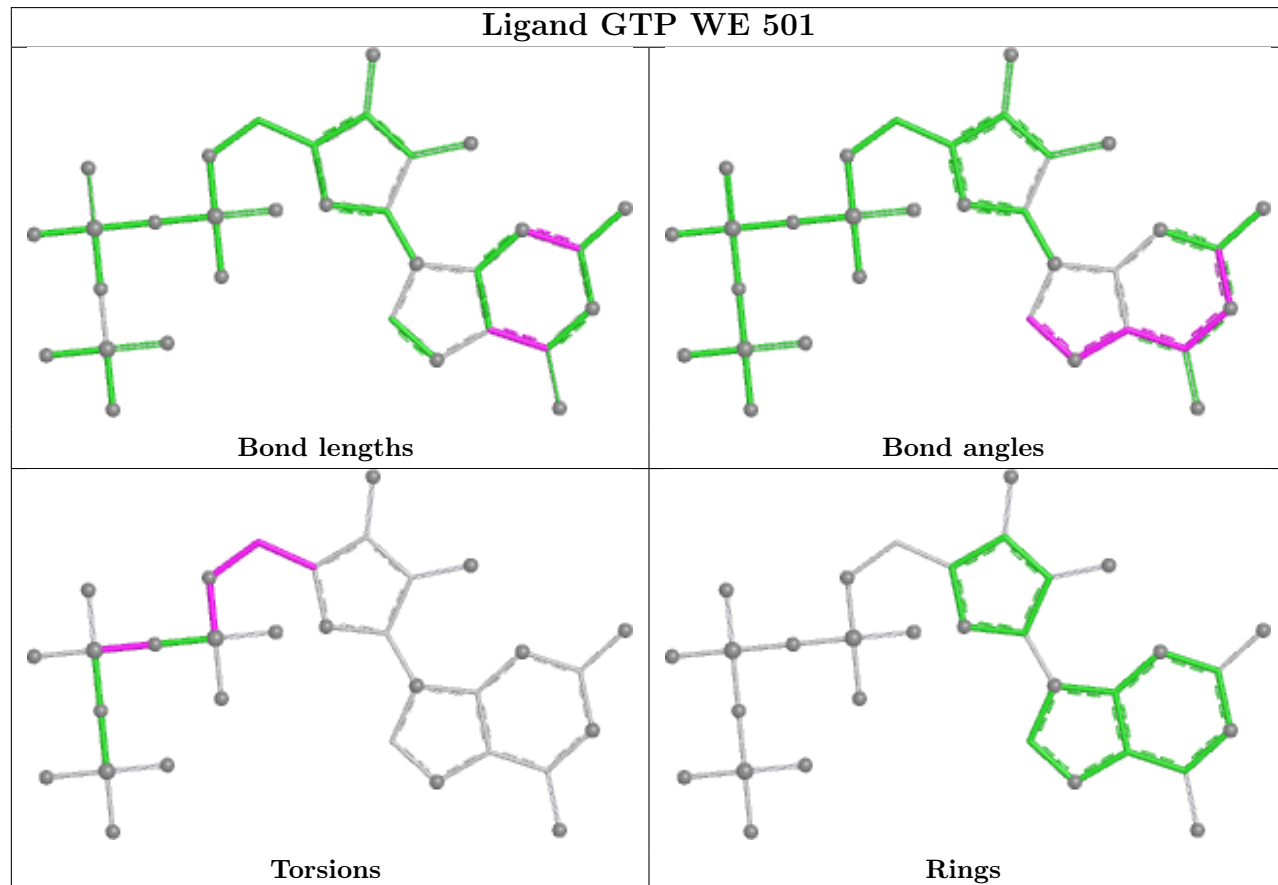
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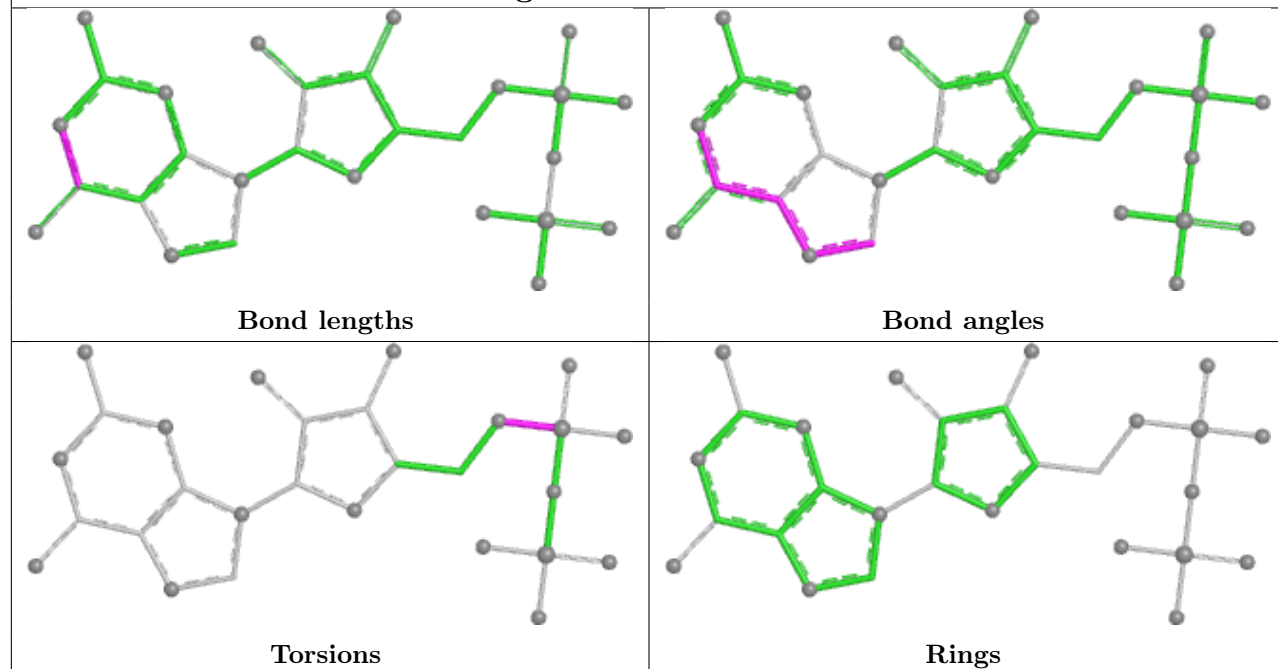
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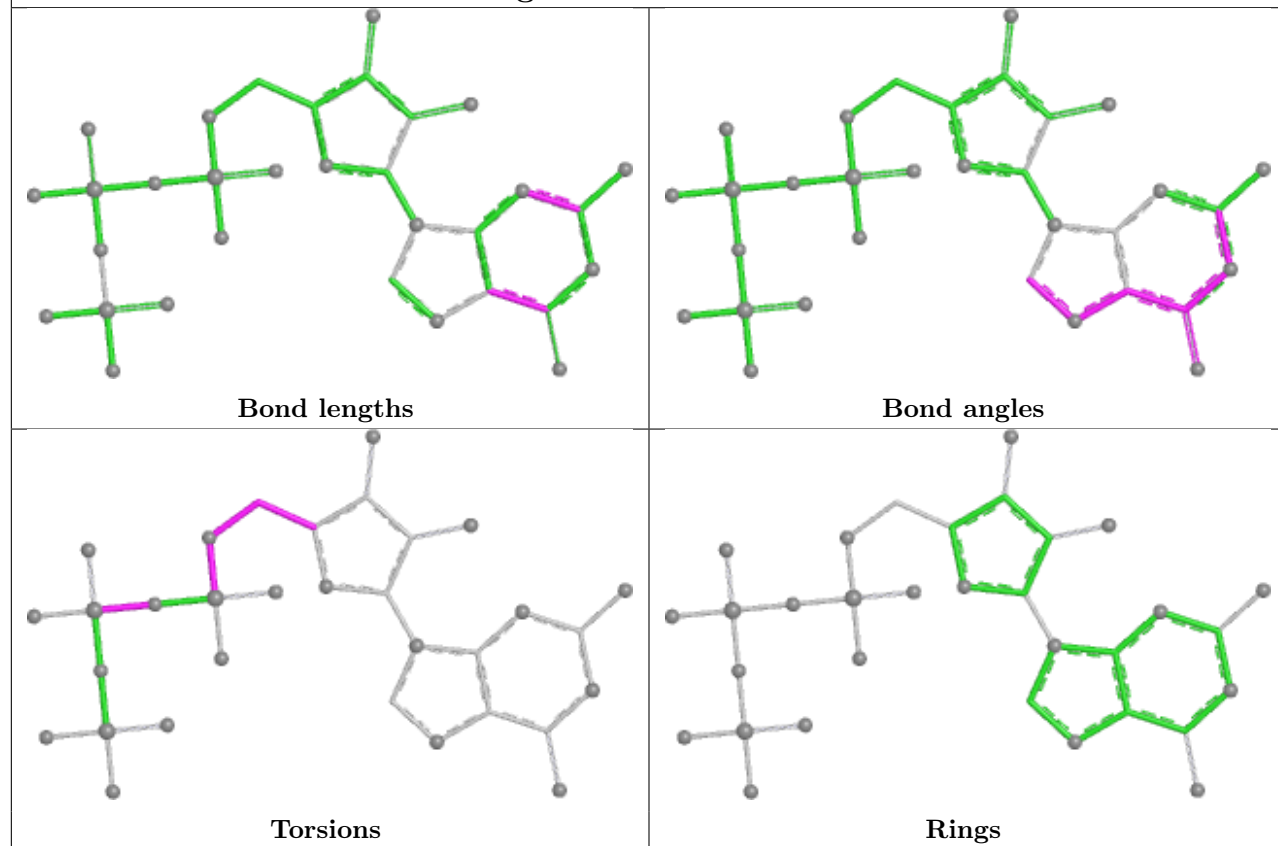
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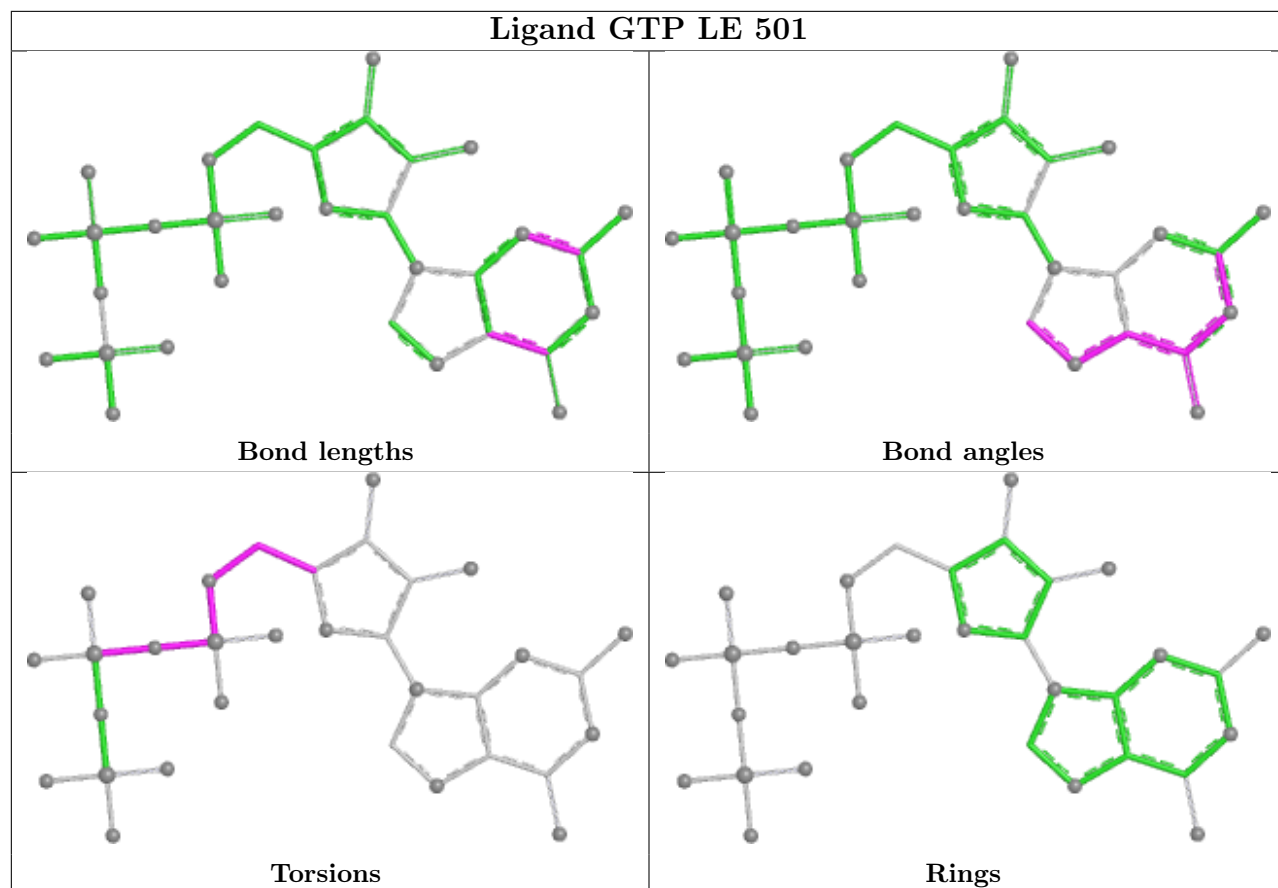
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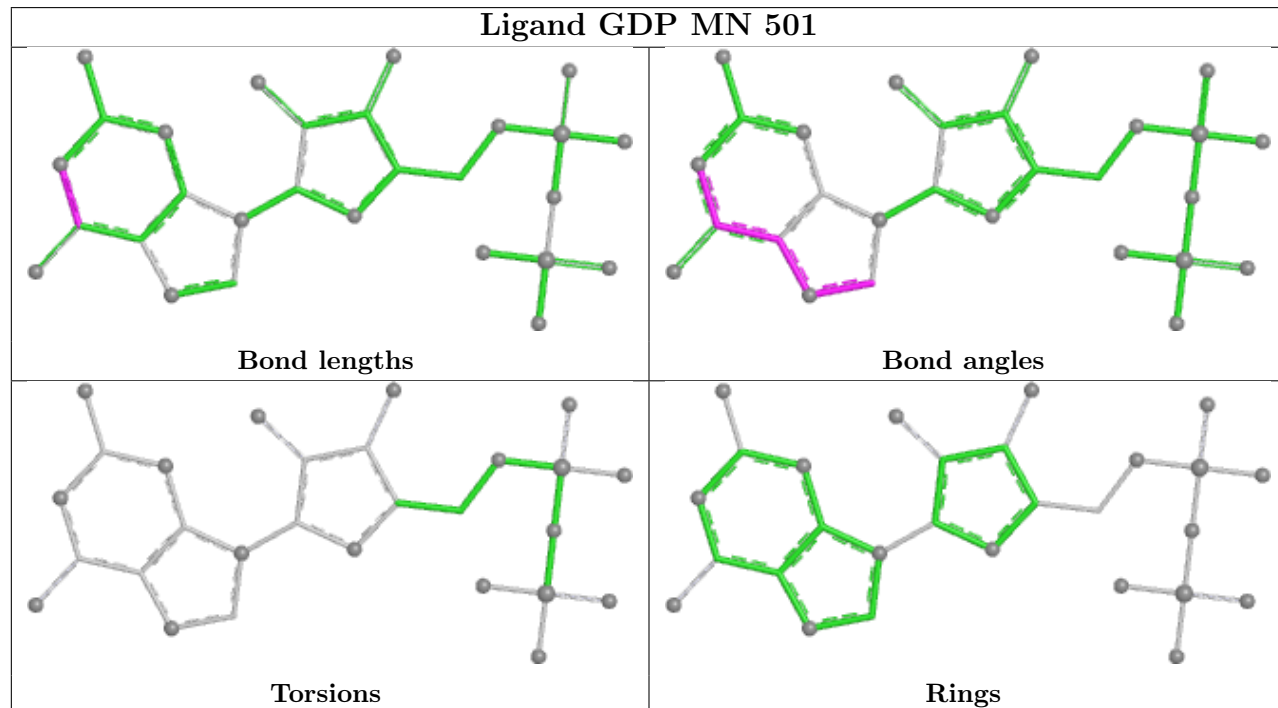
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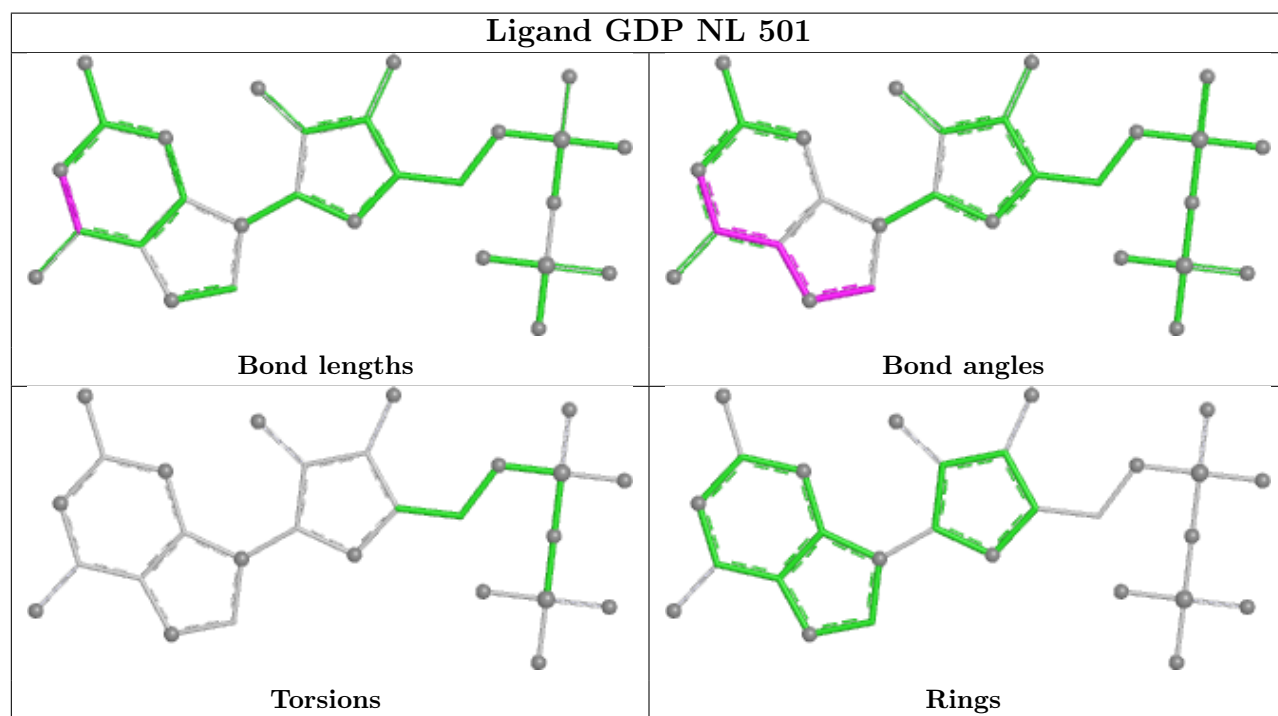
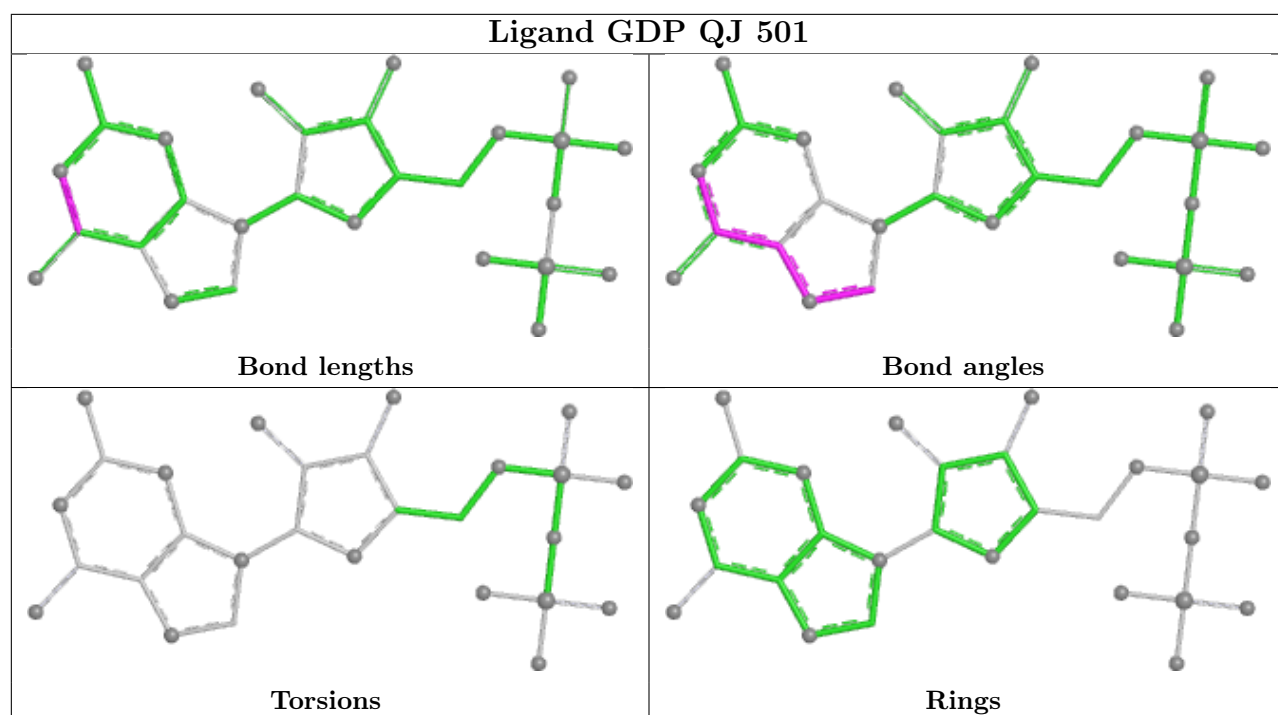


Ligand GTP LE 501

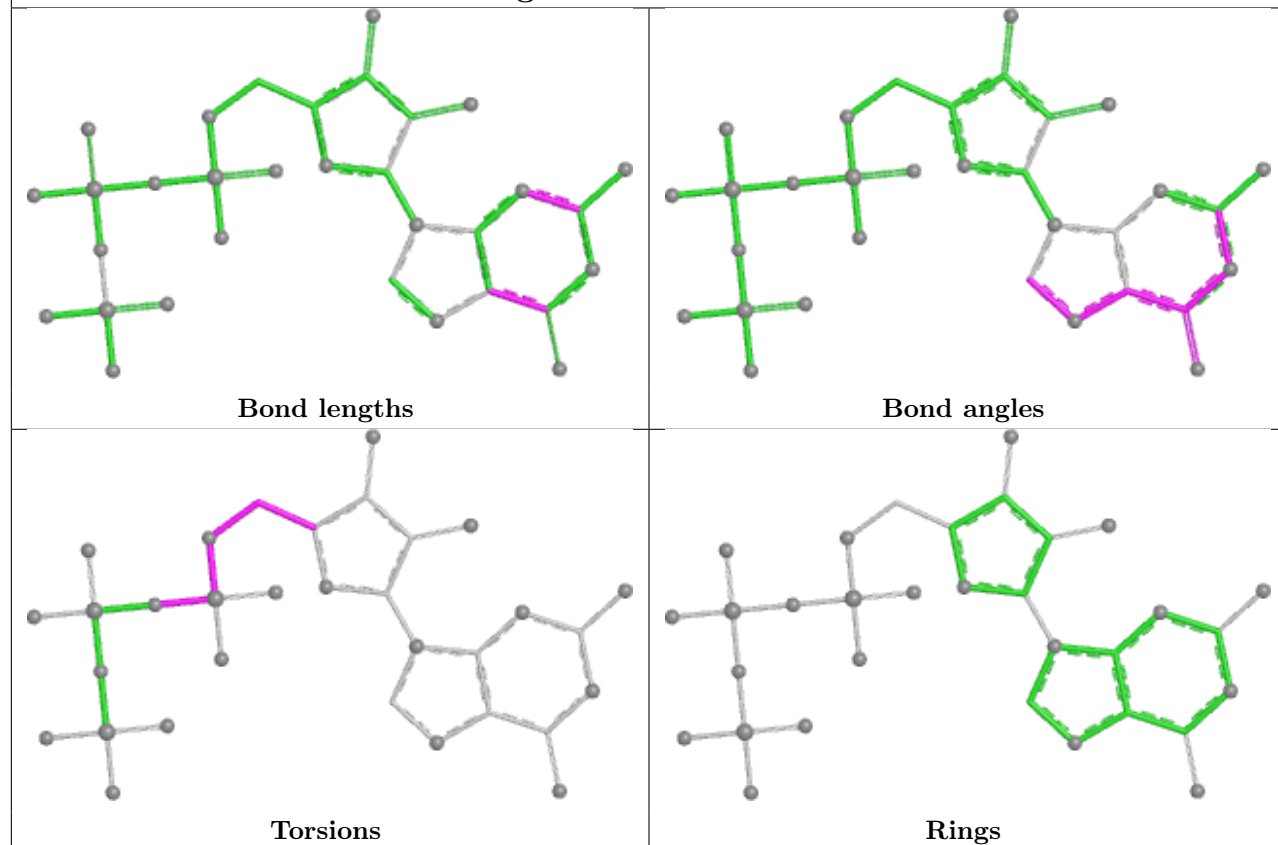


Ligand GDP MN 501

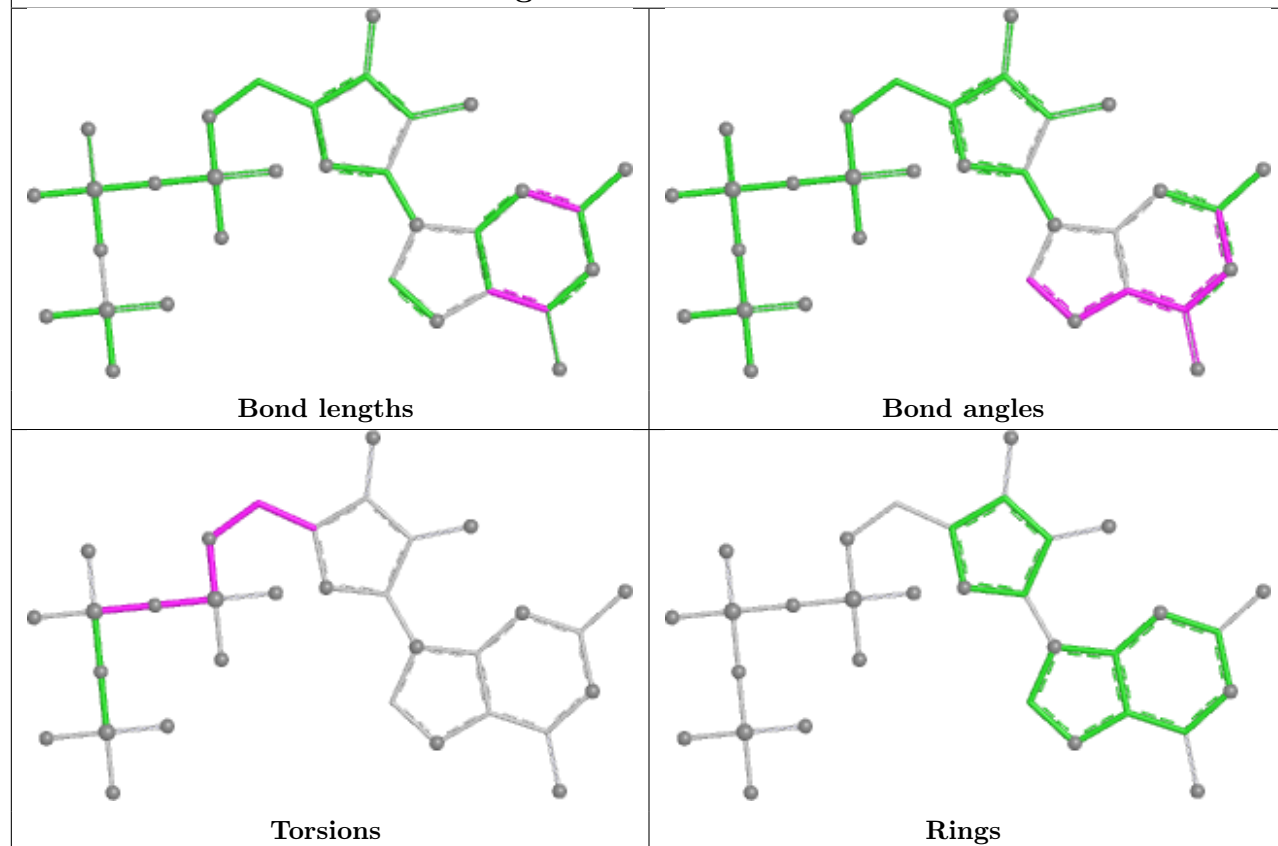


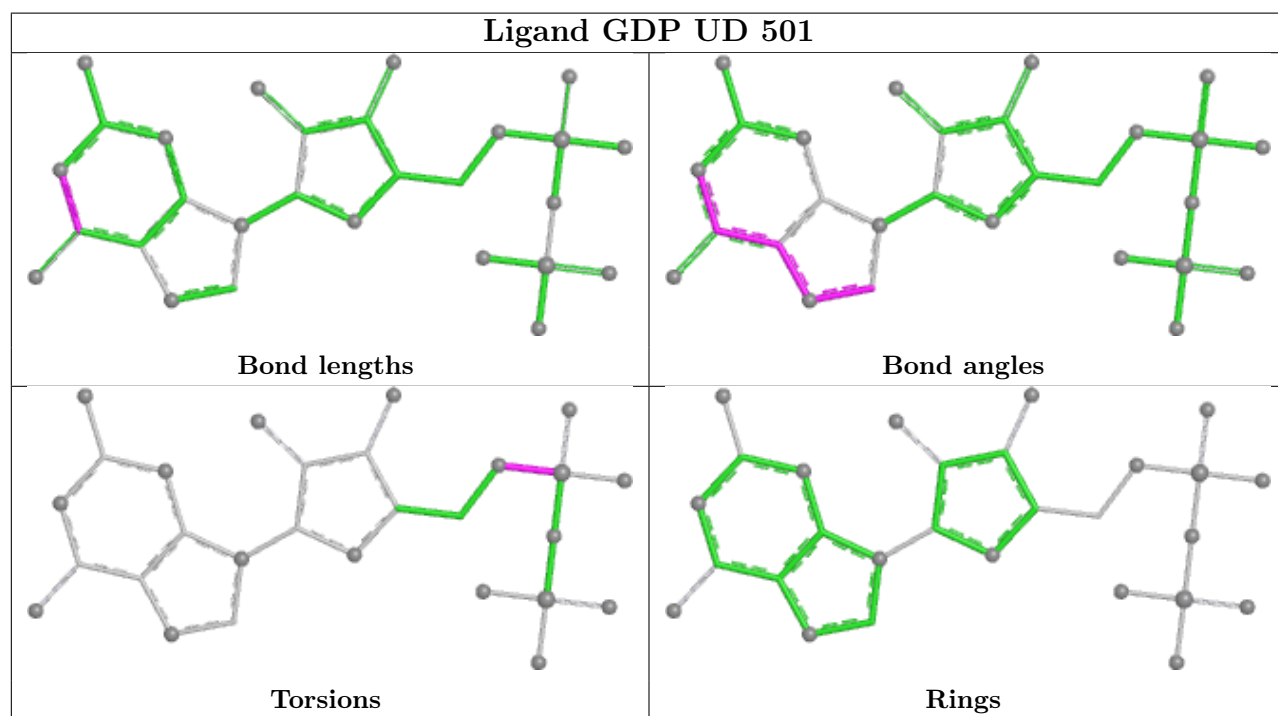
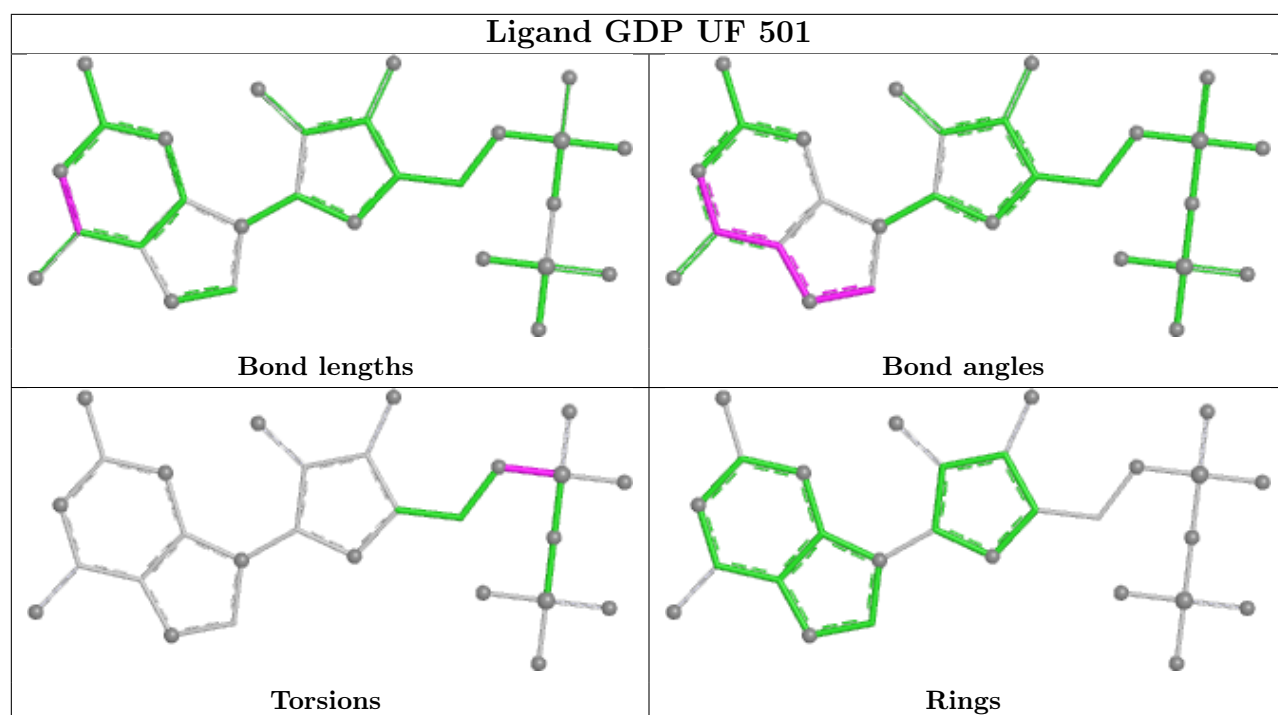


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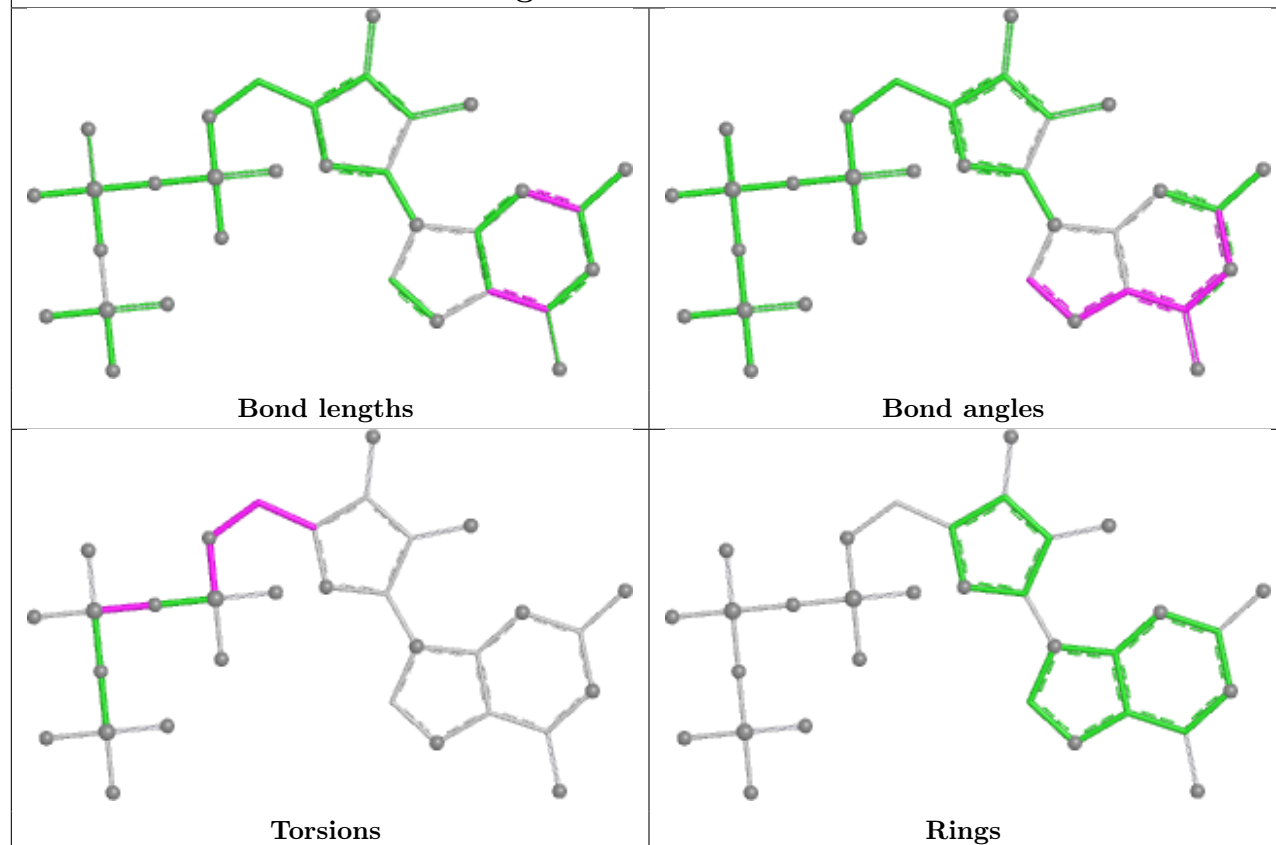


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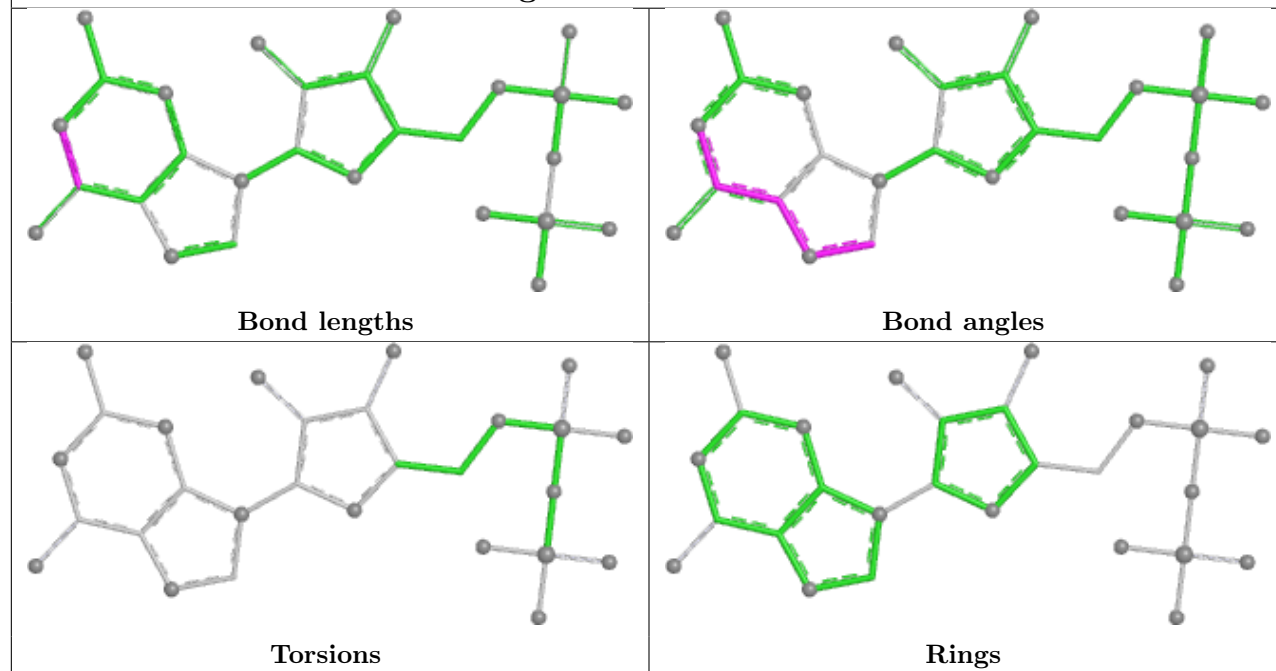




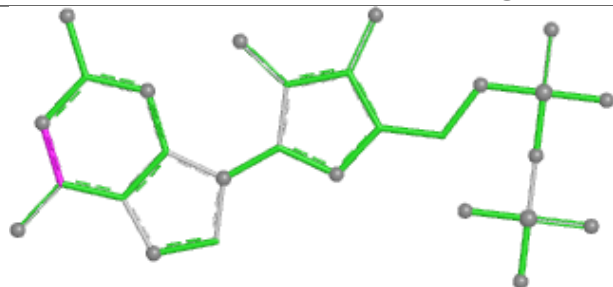
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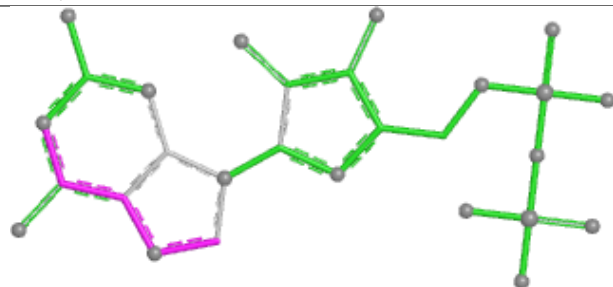
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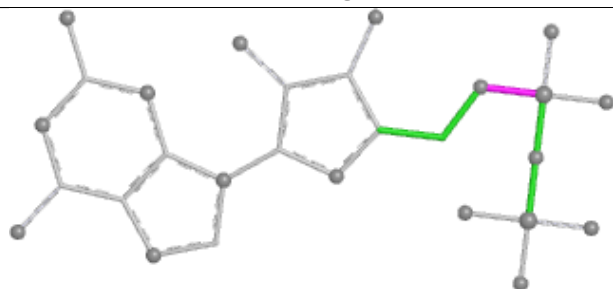
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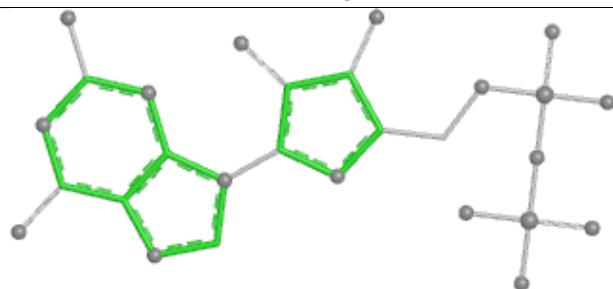
Bond lengths



Bond angles

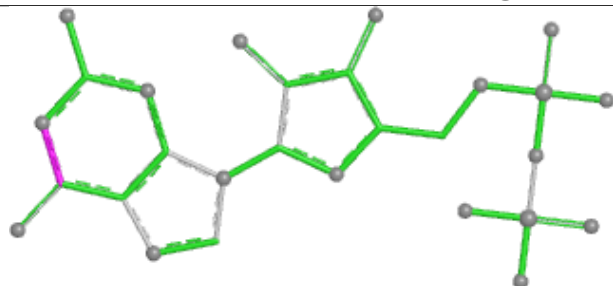


Torsions

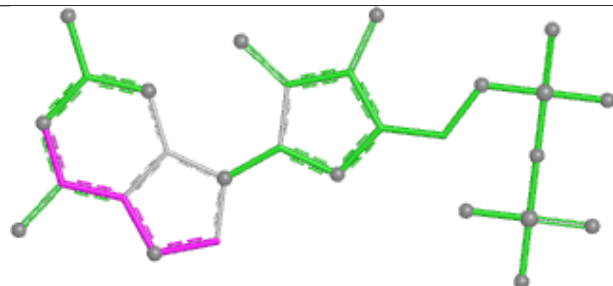


Rings

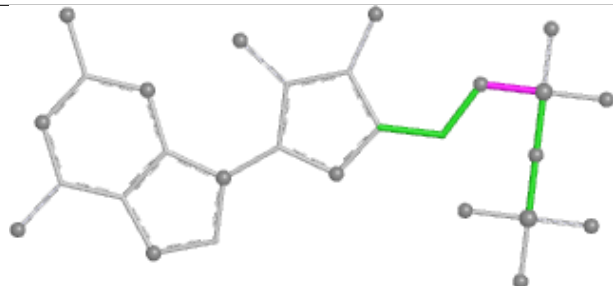
Ligand GDP UN 501



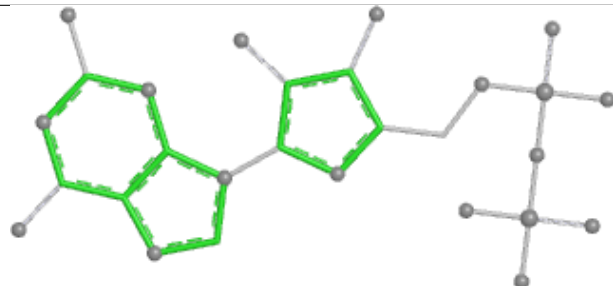
Bond lengths



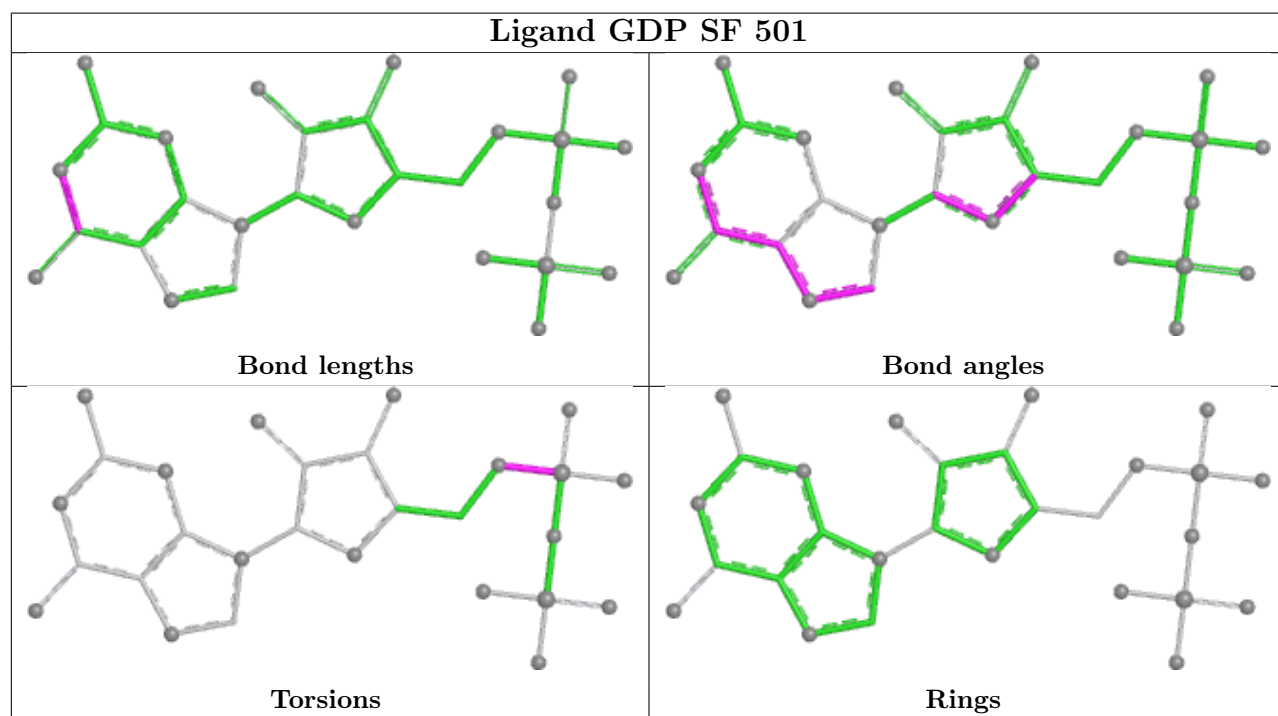
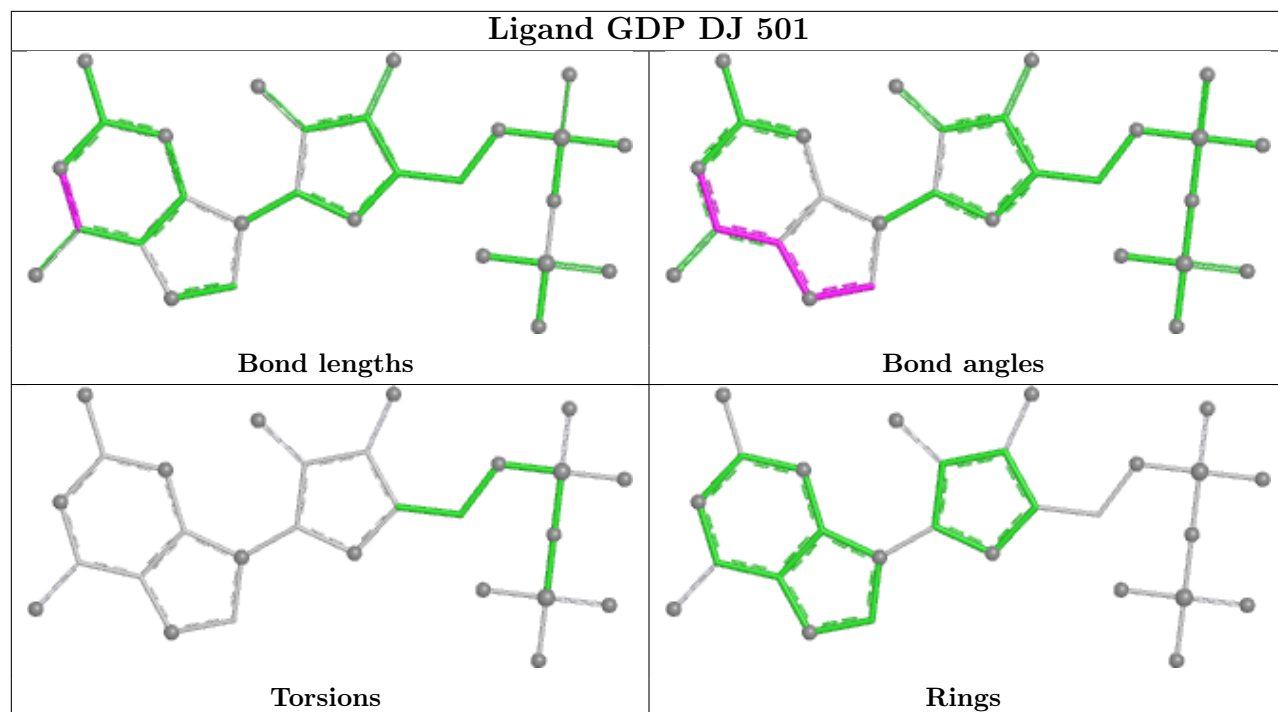
Bond angles



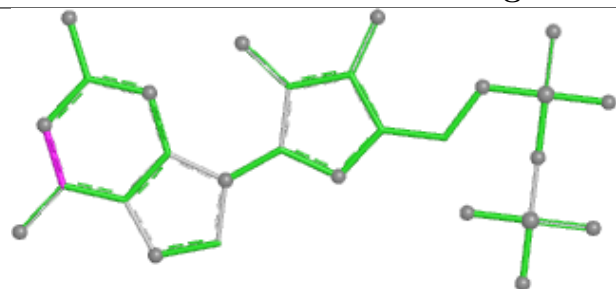
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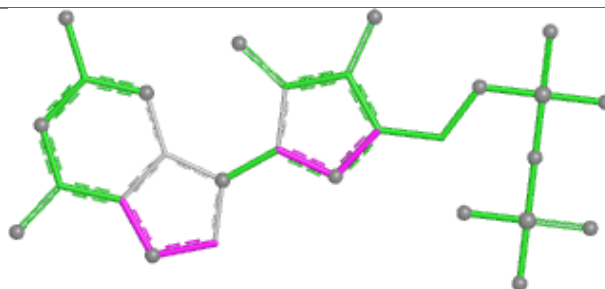
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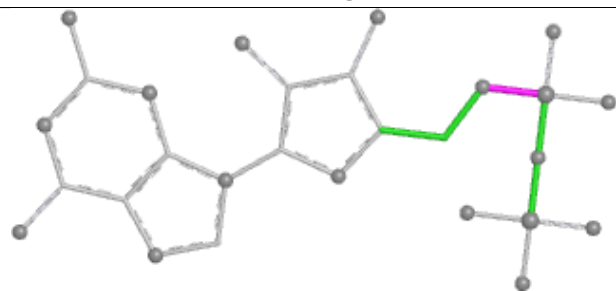
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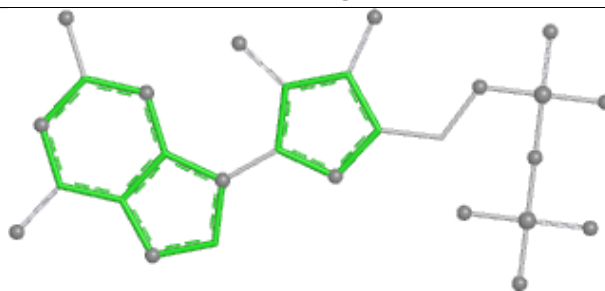
Bond lengths



Bond angles

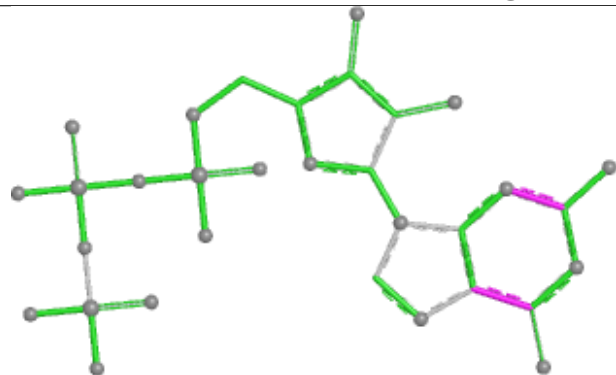


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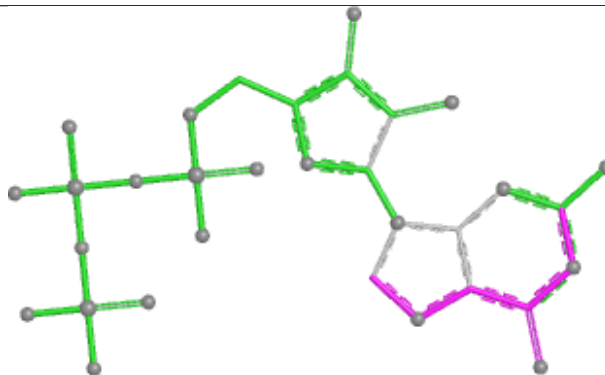


Rings

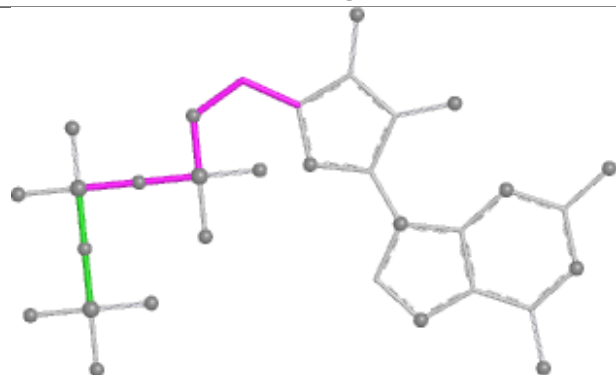
Ligand GTP HE 501



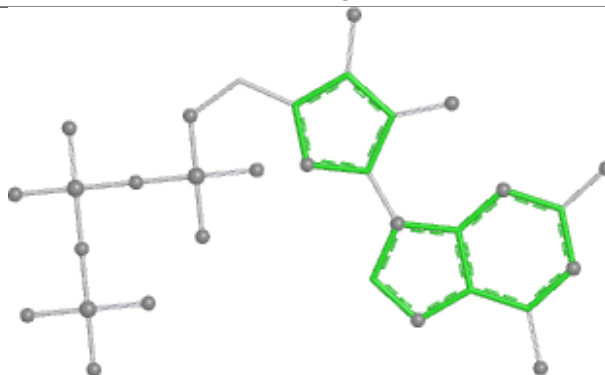
Bond lengths



Bond angles

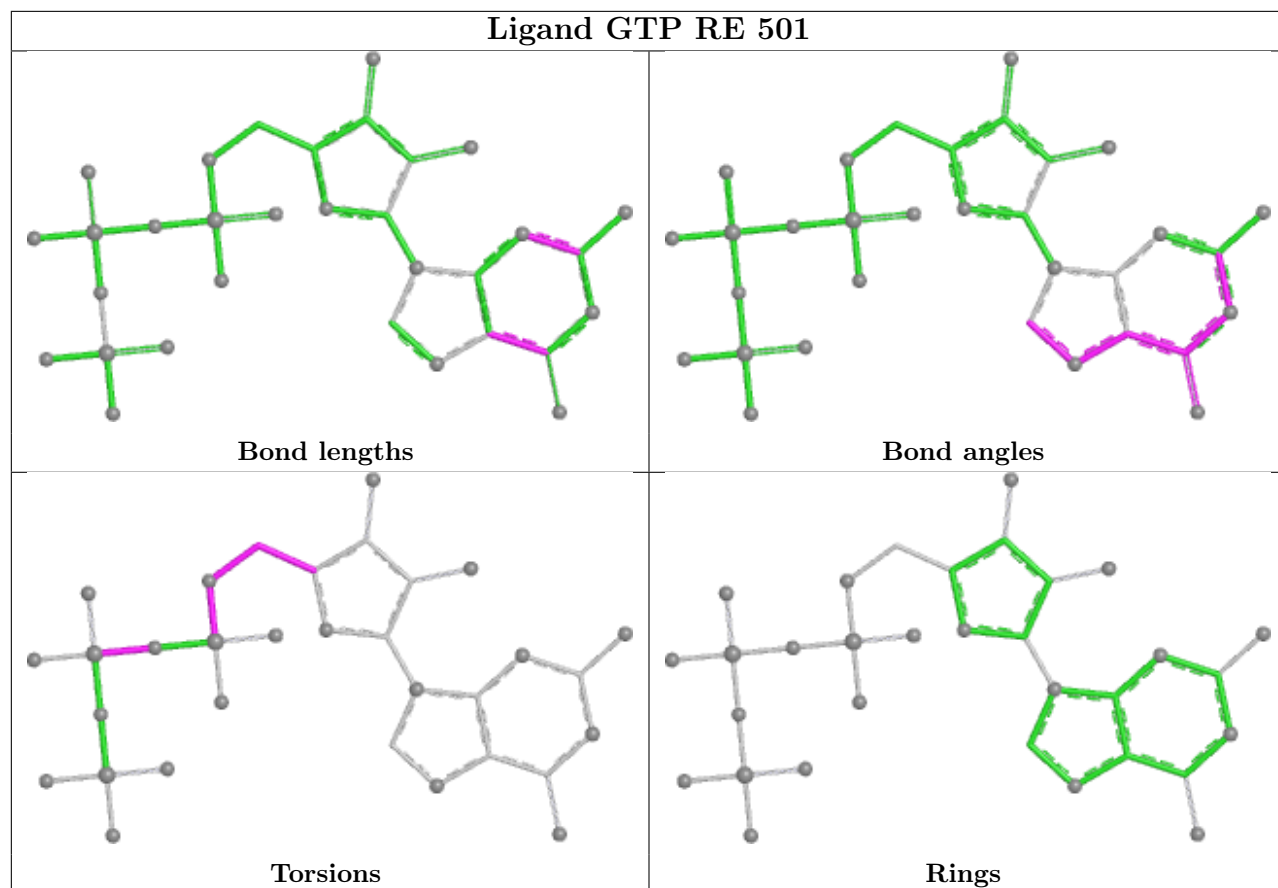


Torsions

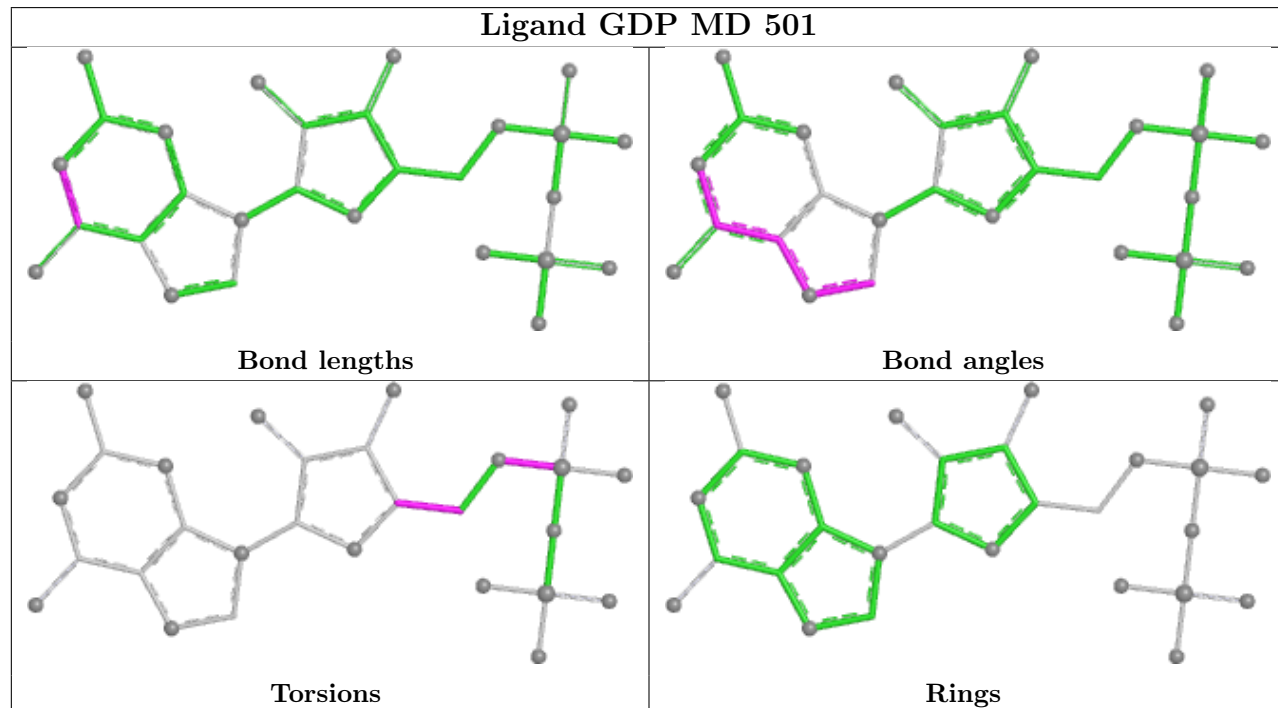


Rings

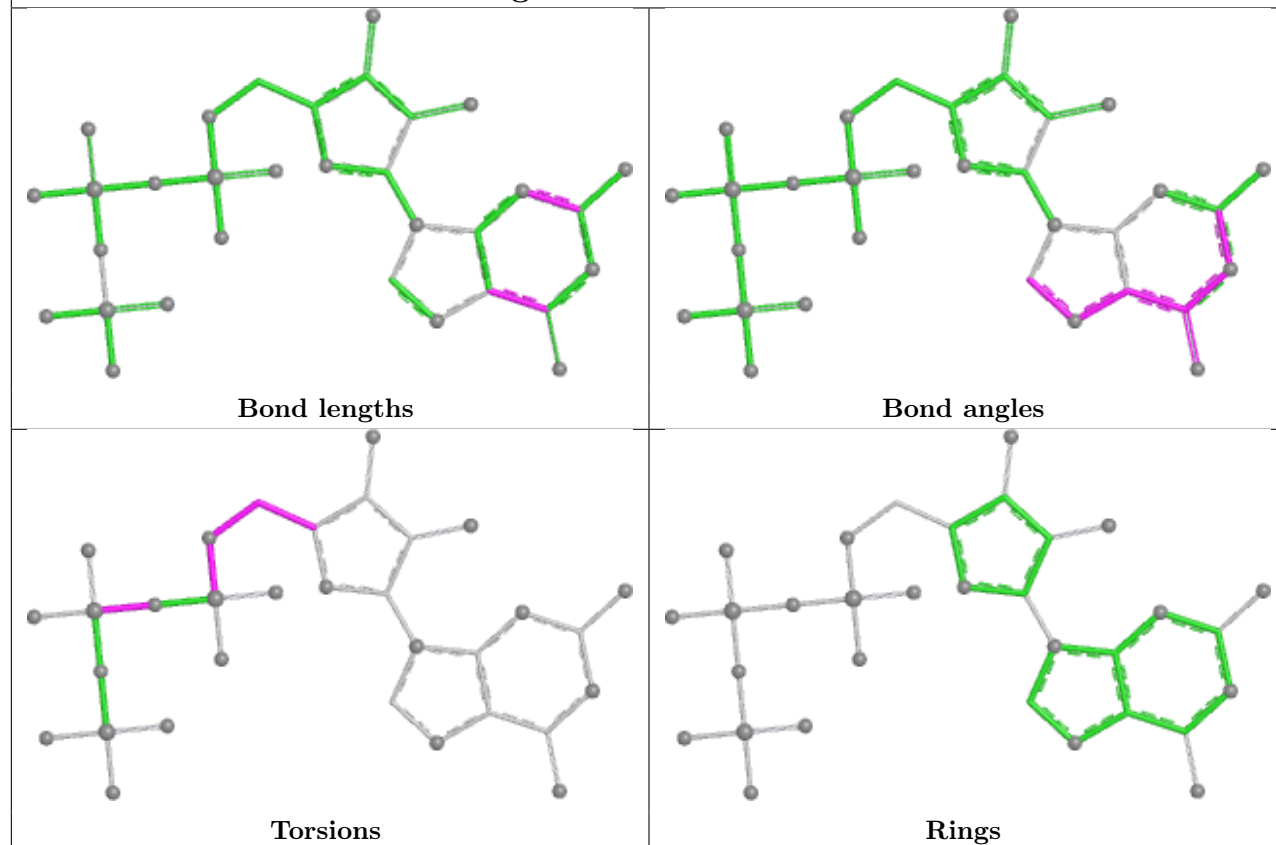
Ligand GTP RE 501



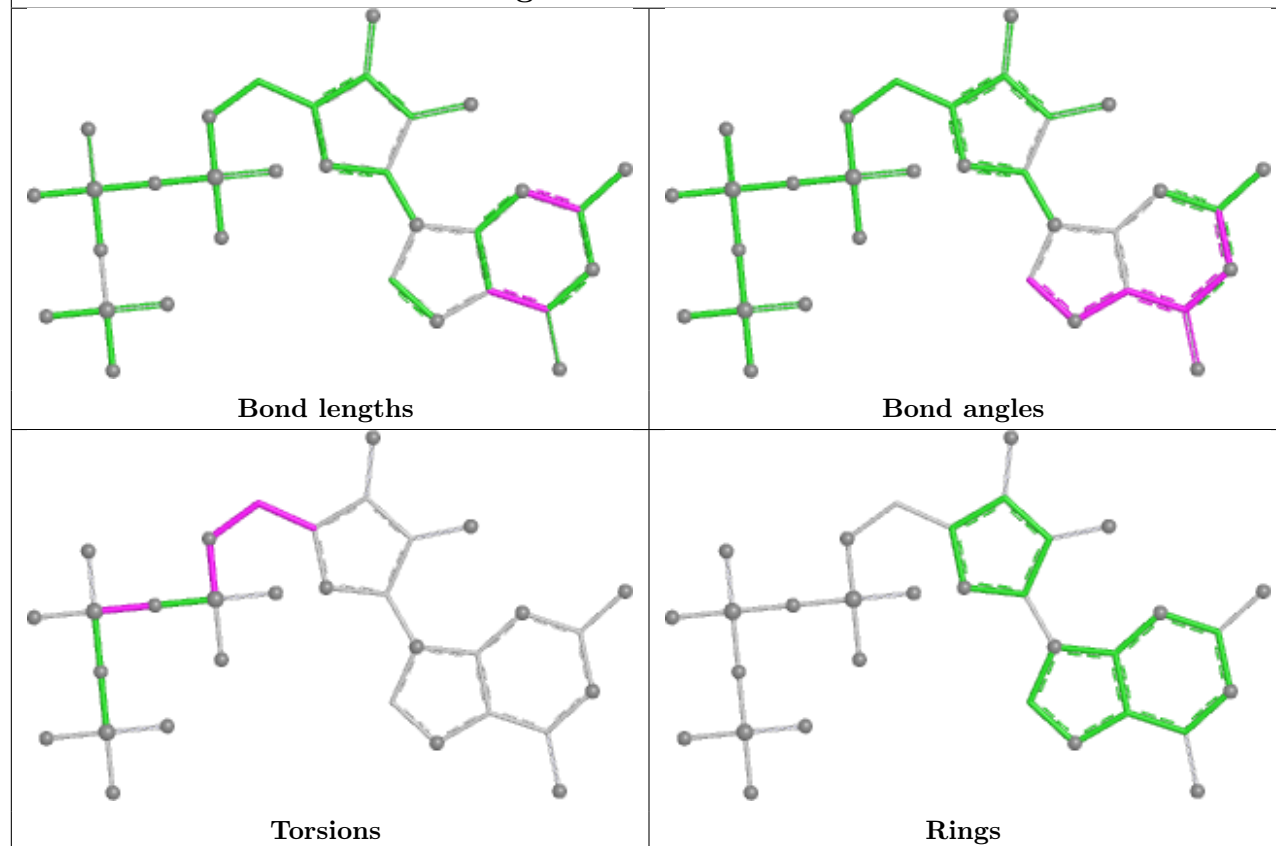
Ligand GDP MD 501



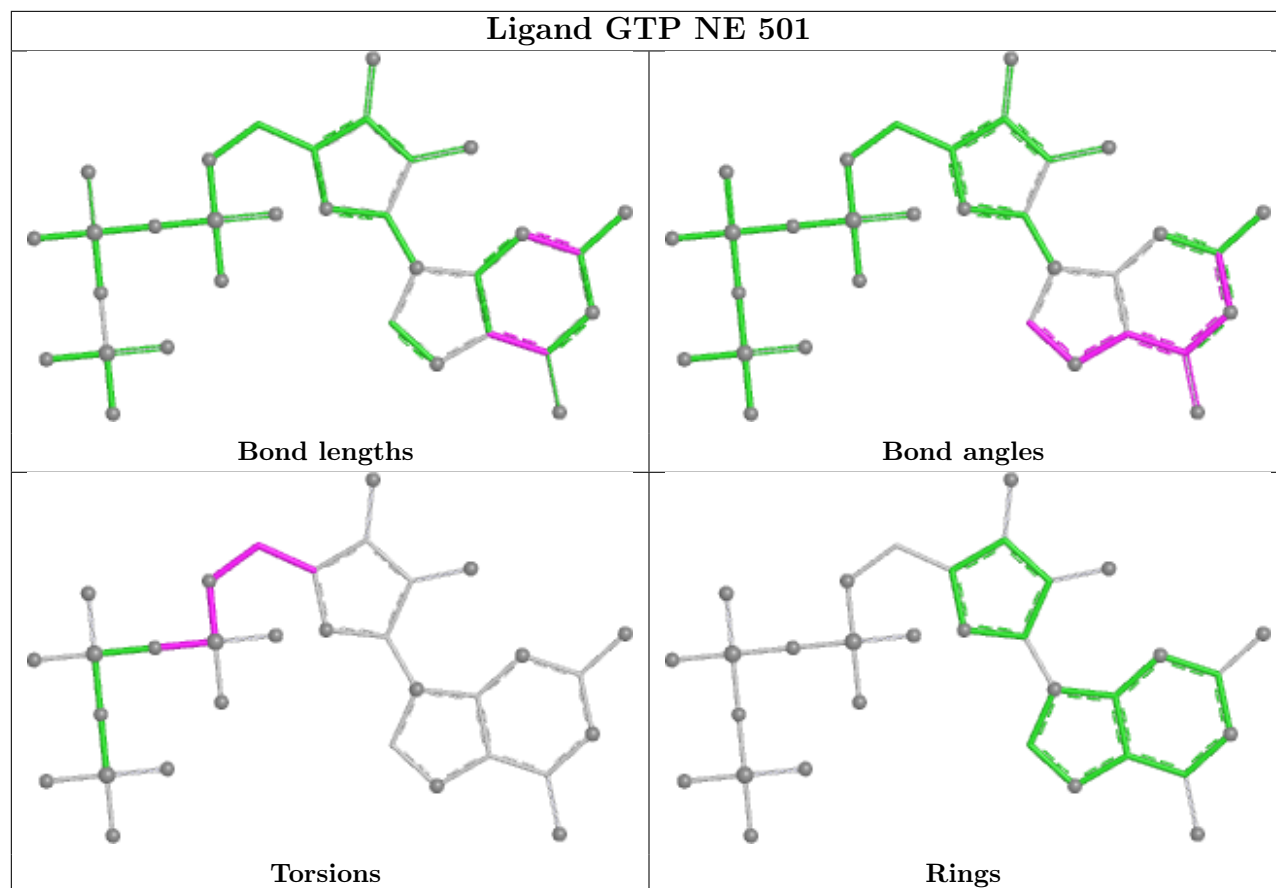
Ligand GTP WG 501



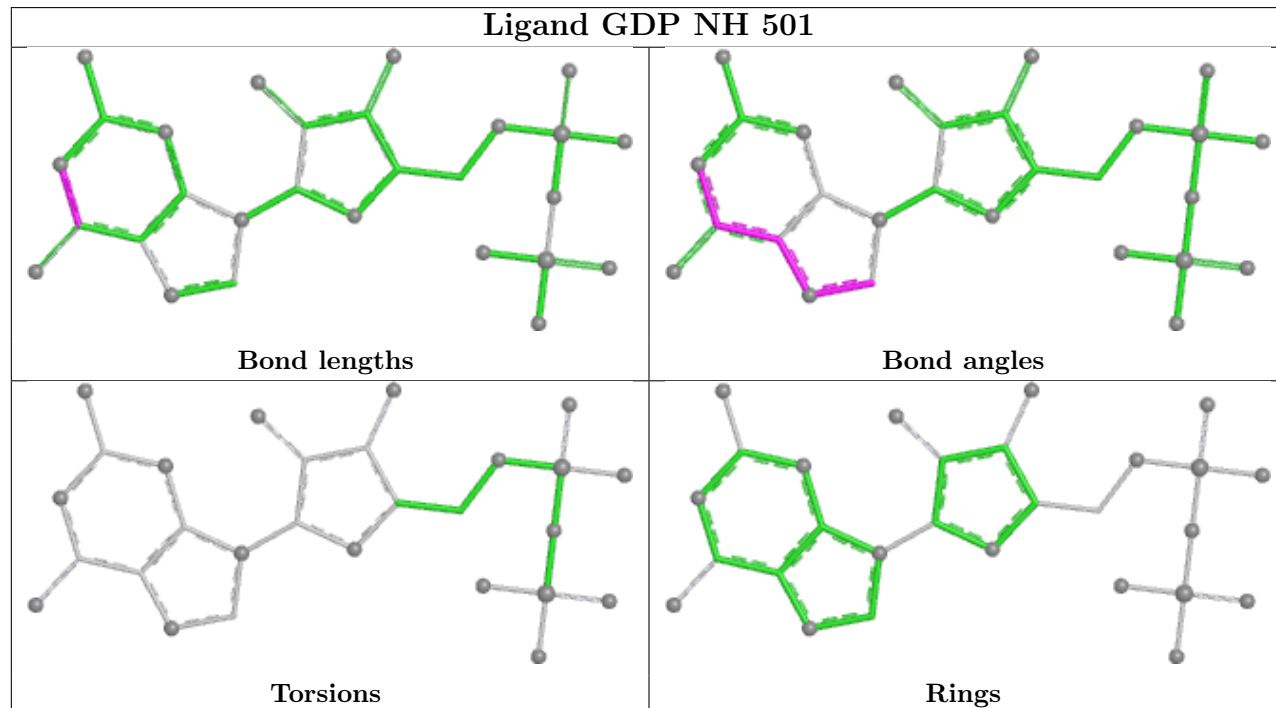
Ligand GTP LM 501



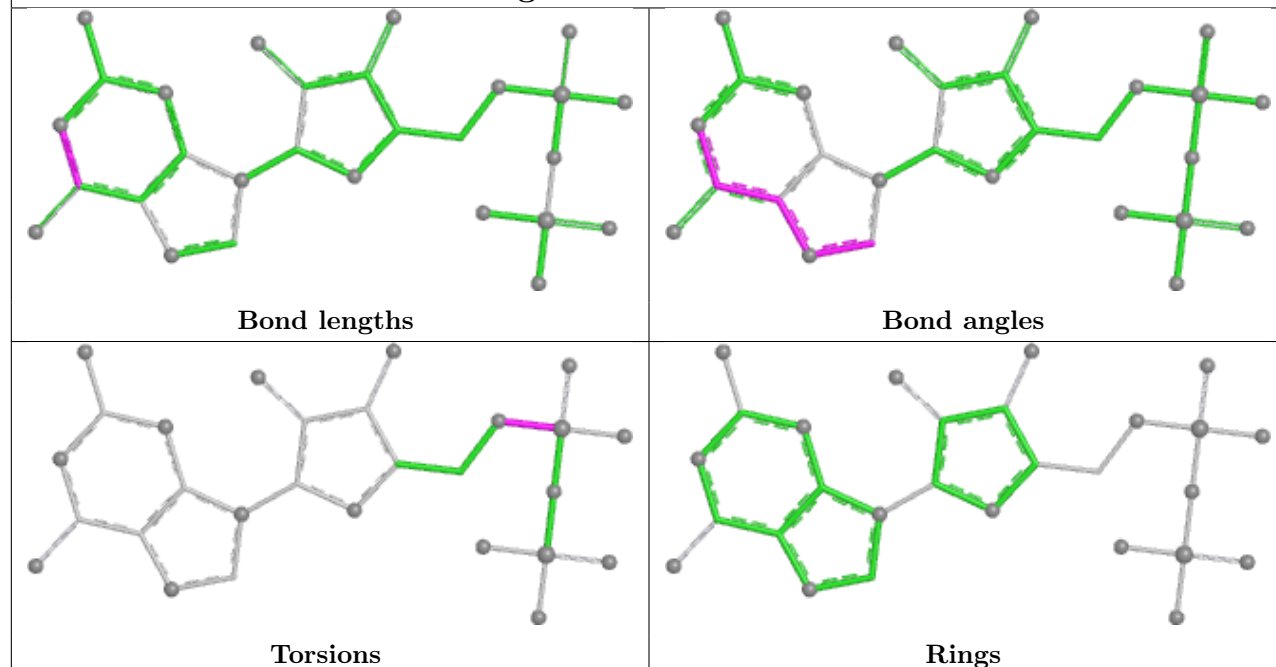
Ligand GTP NE 501



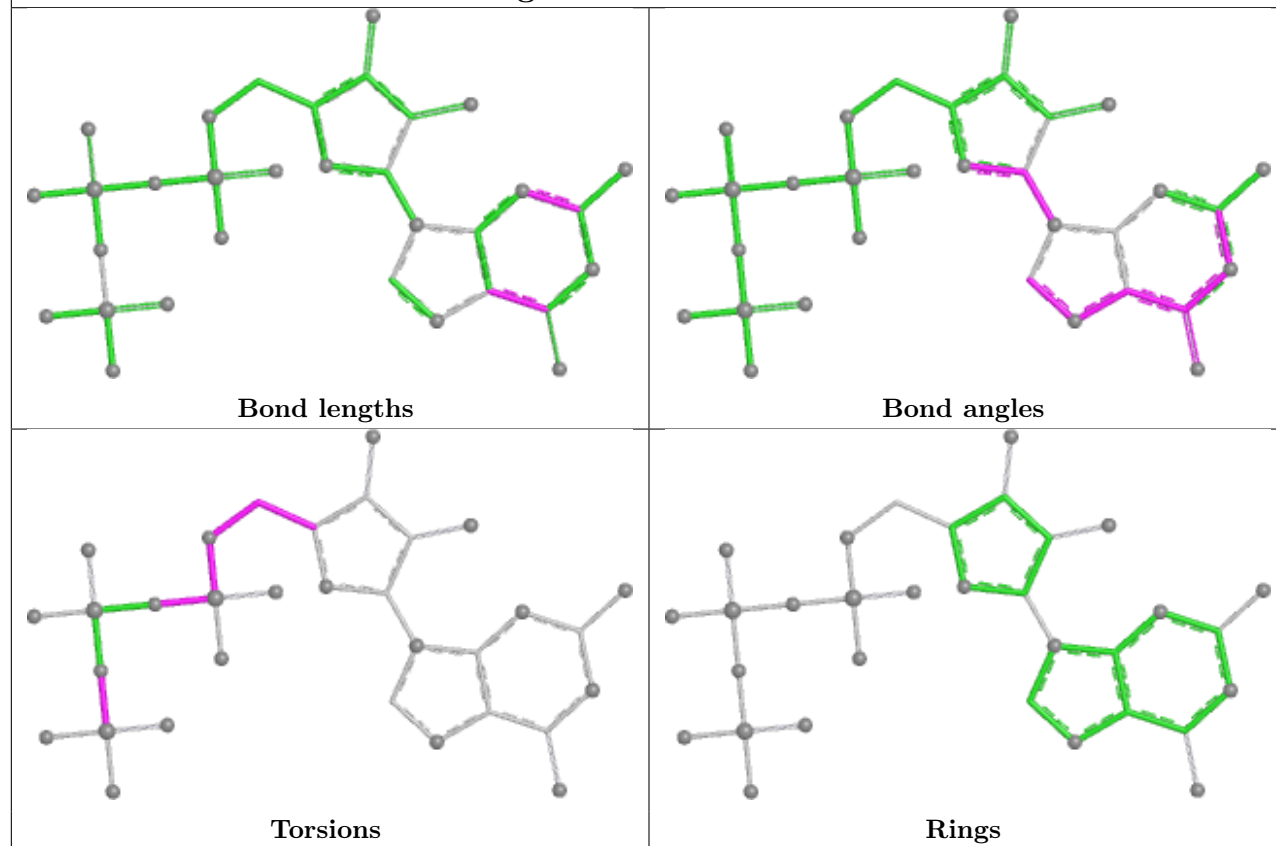
Ligand GDP NH 501



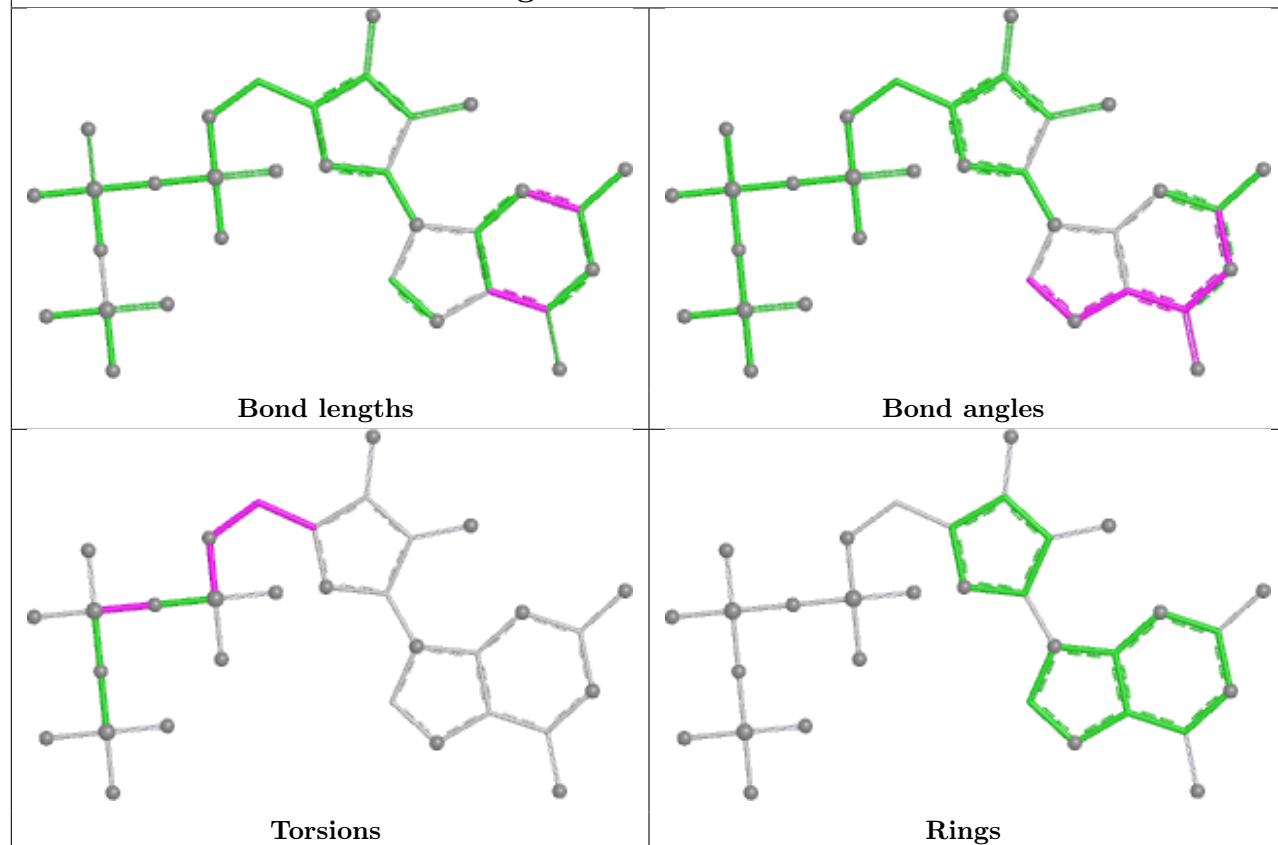
Ligand GDP AL 501



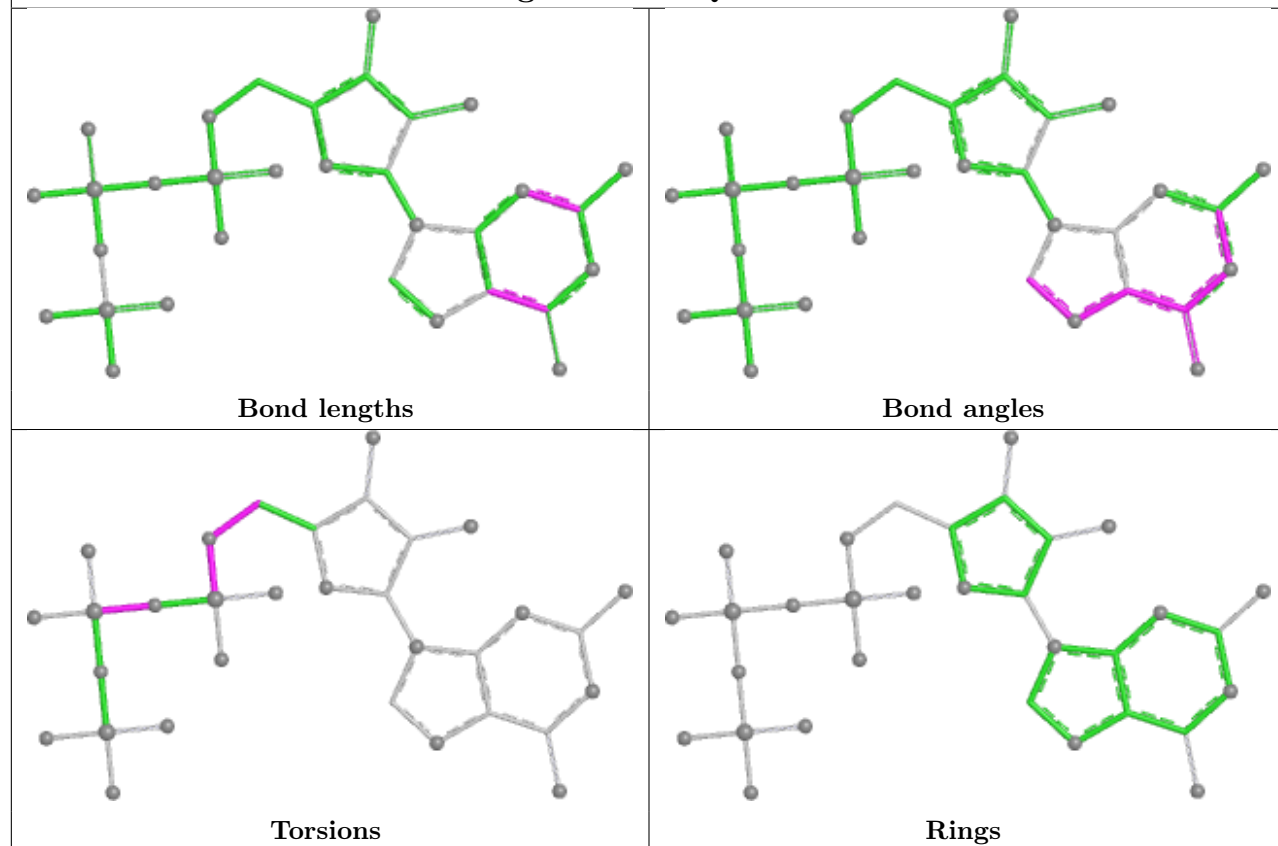
Ligand GTP OC 501



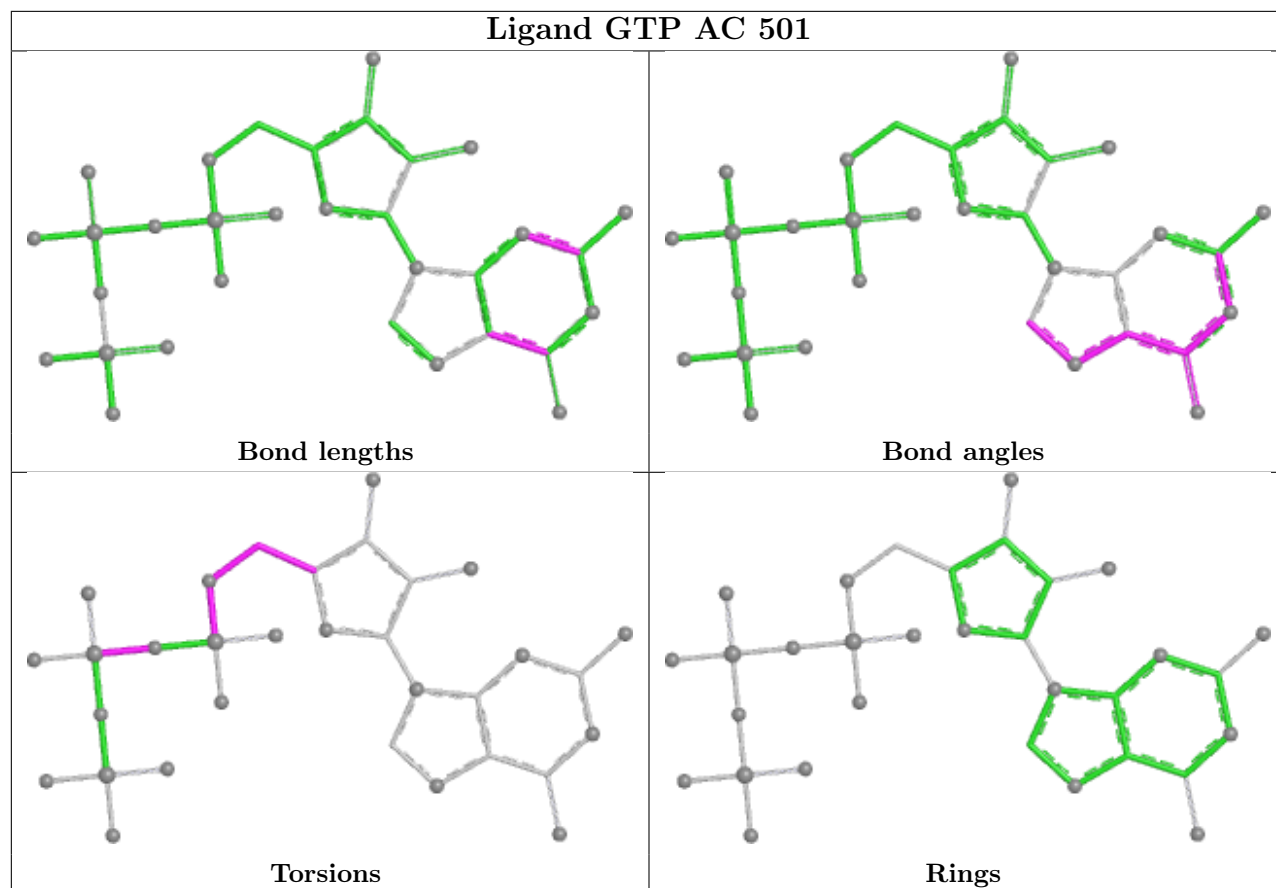
Ligand GTP DC 501



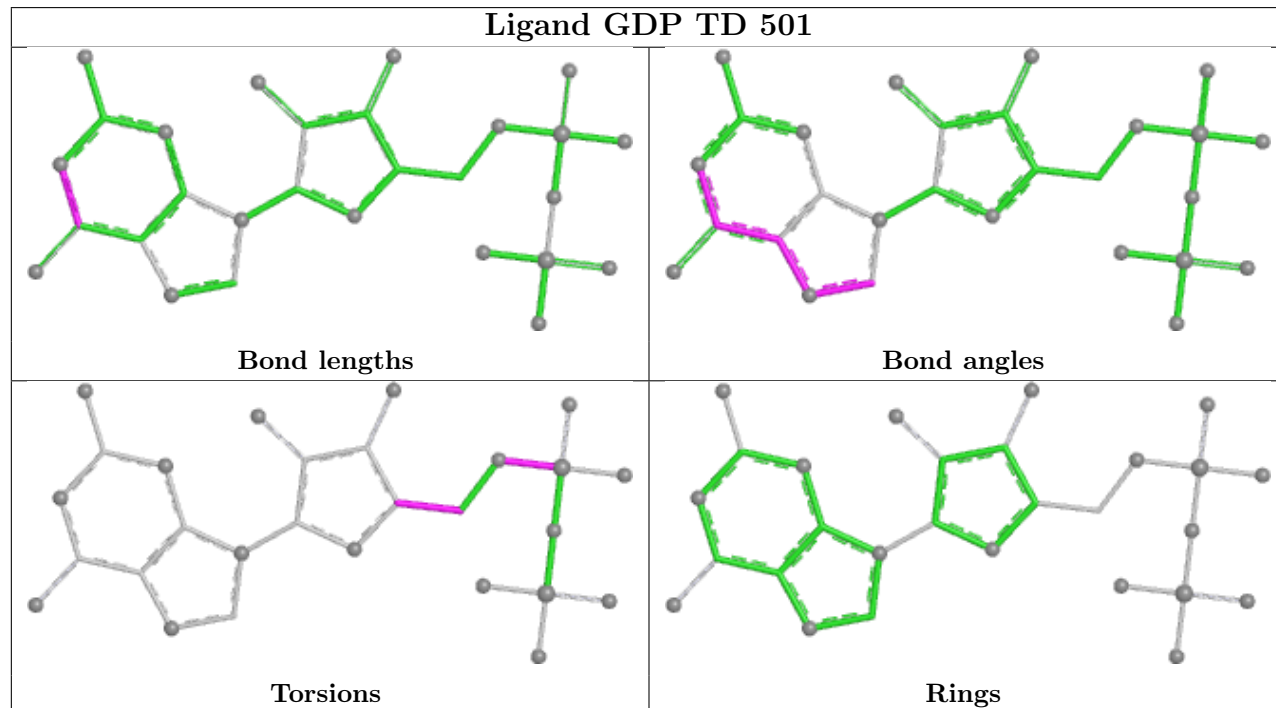
Ligand GTP QC 501

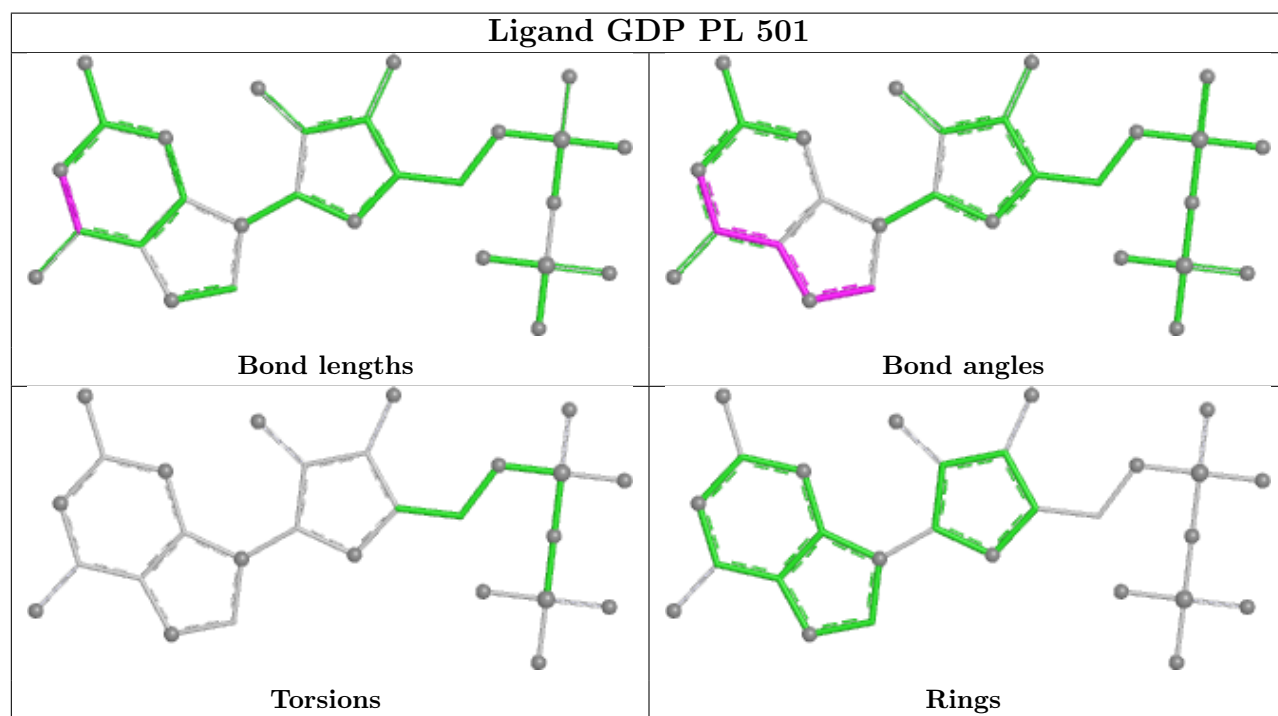
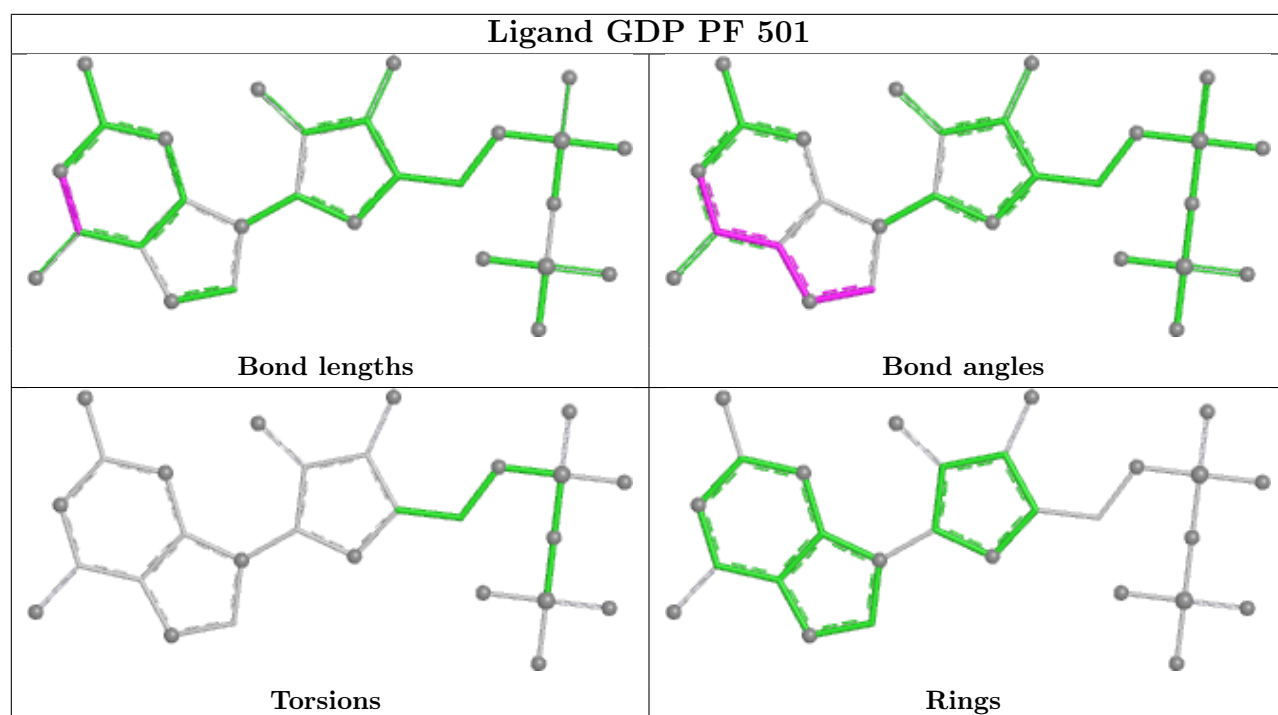


Ligand GTP AC 501

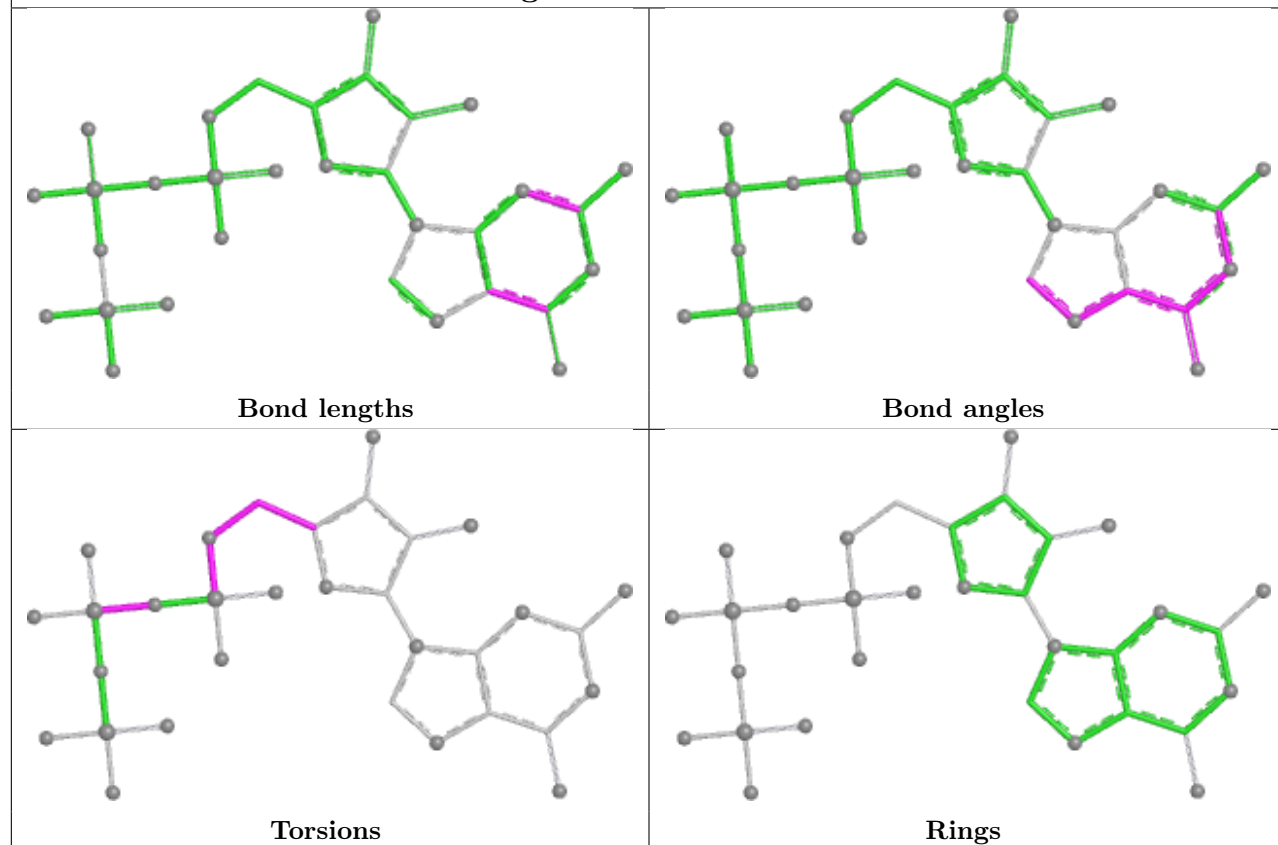


Ligand GDP TD 501

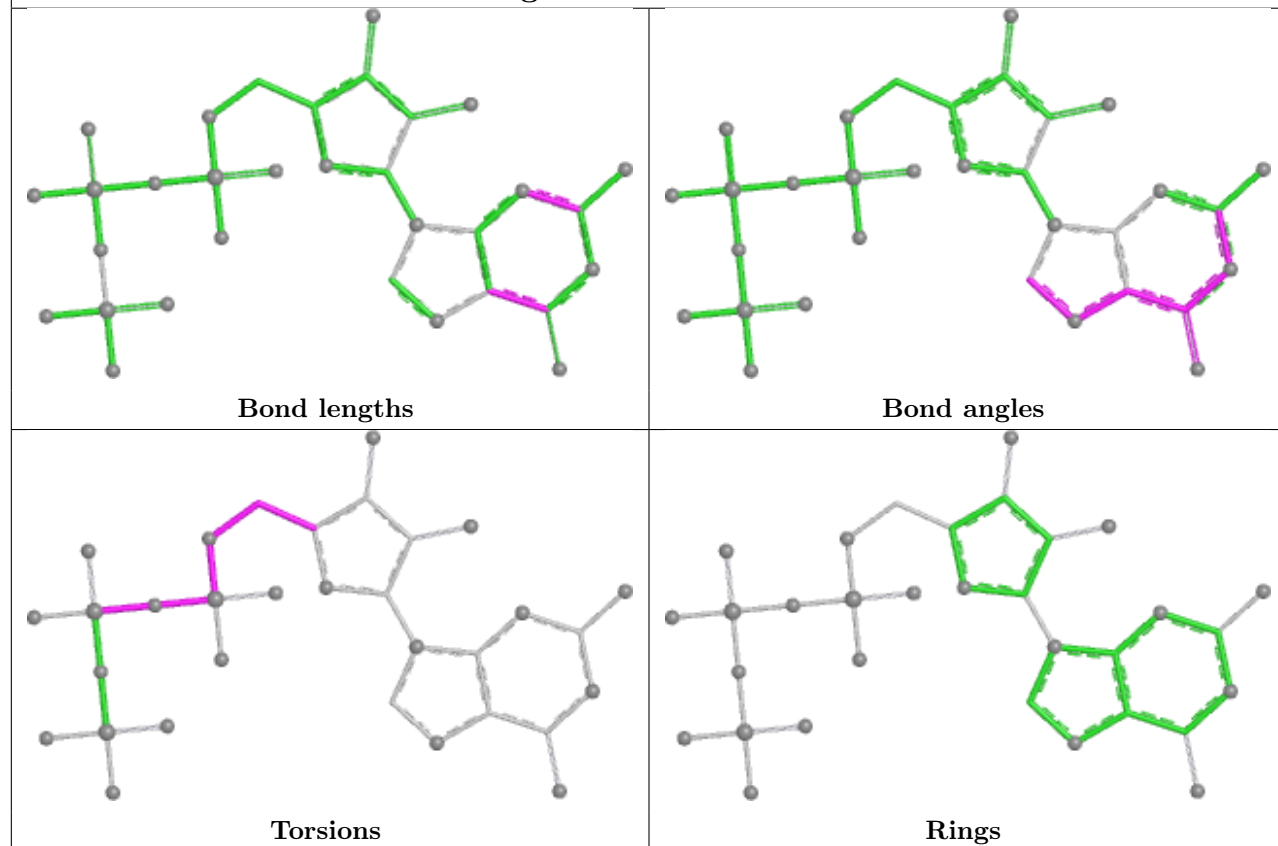




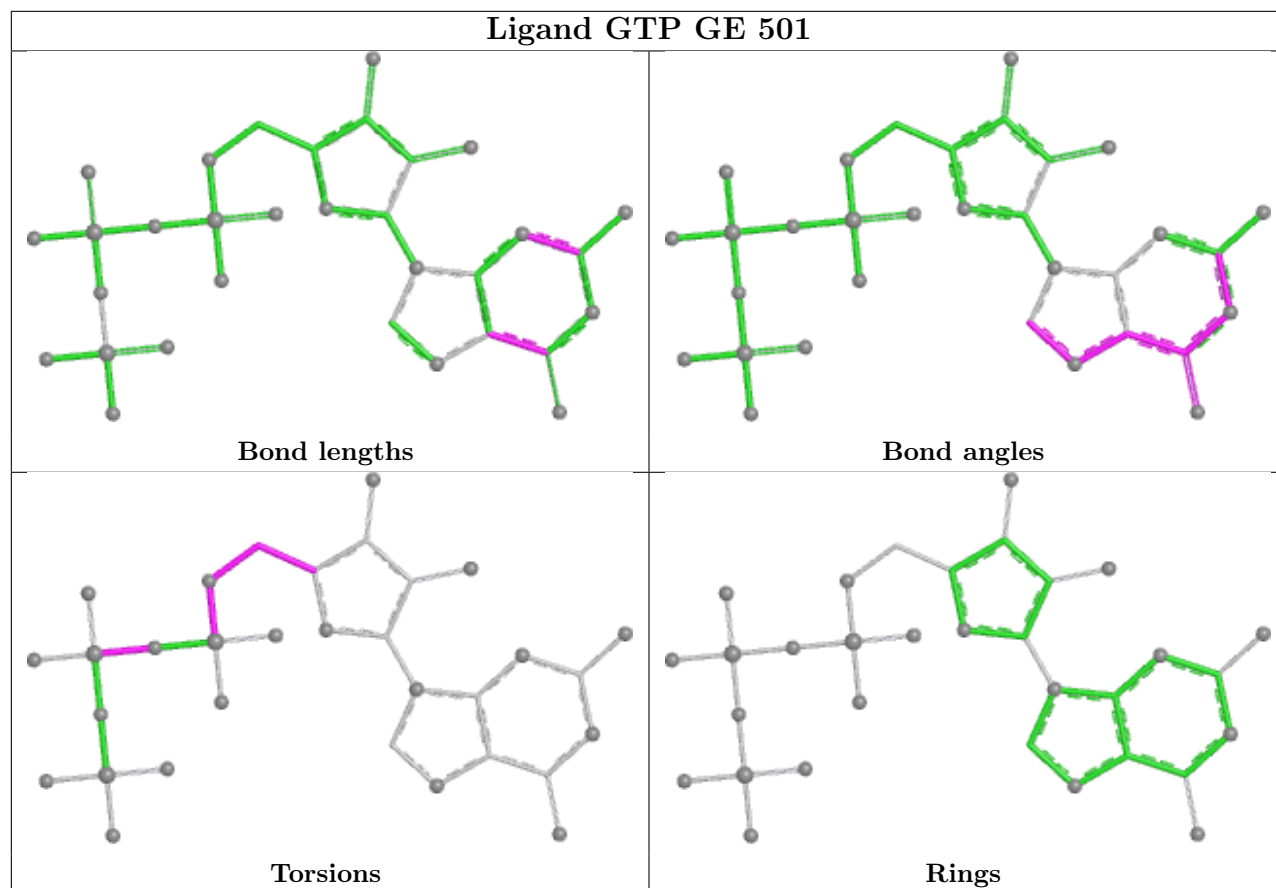
Ligand GTP FA 501



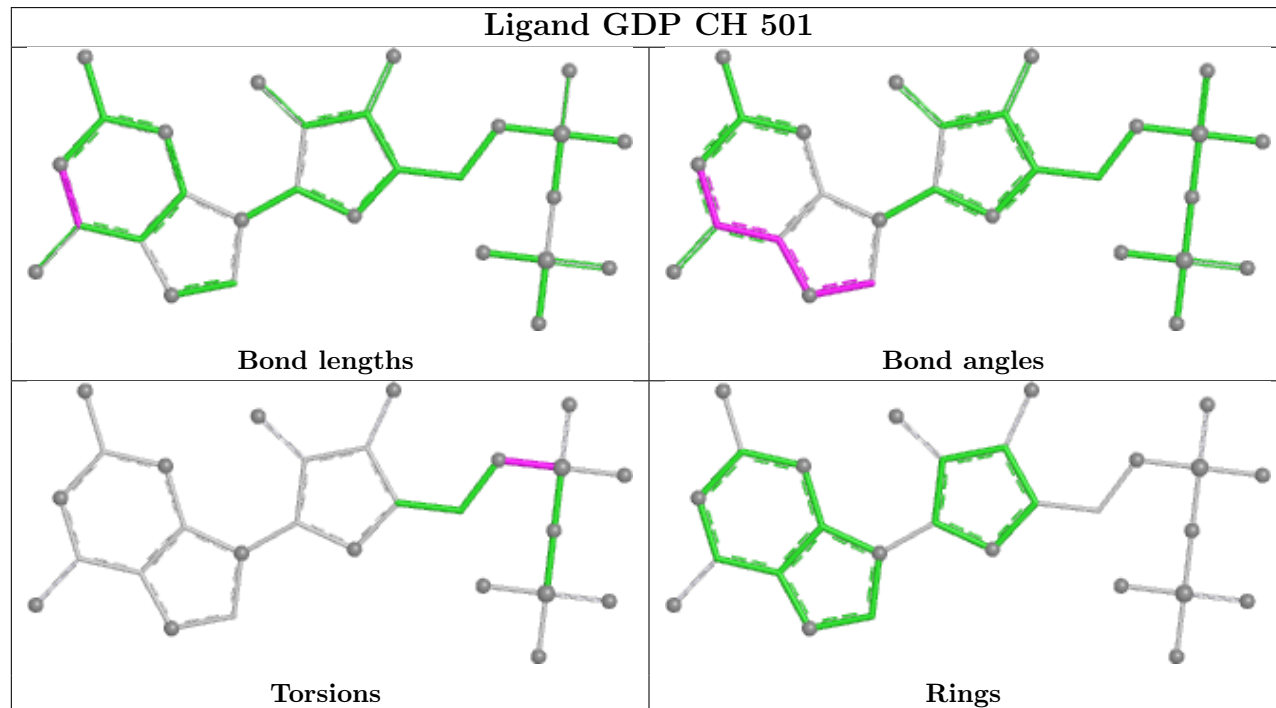
Ligand GTP FE 501



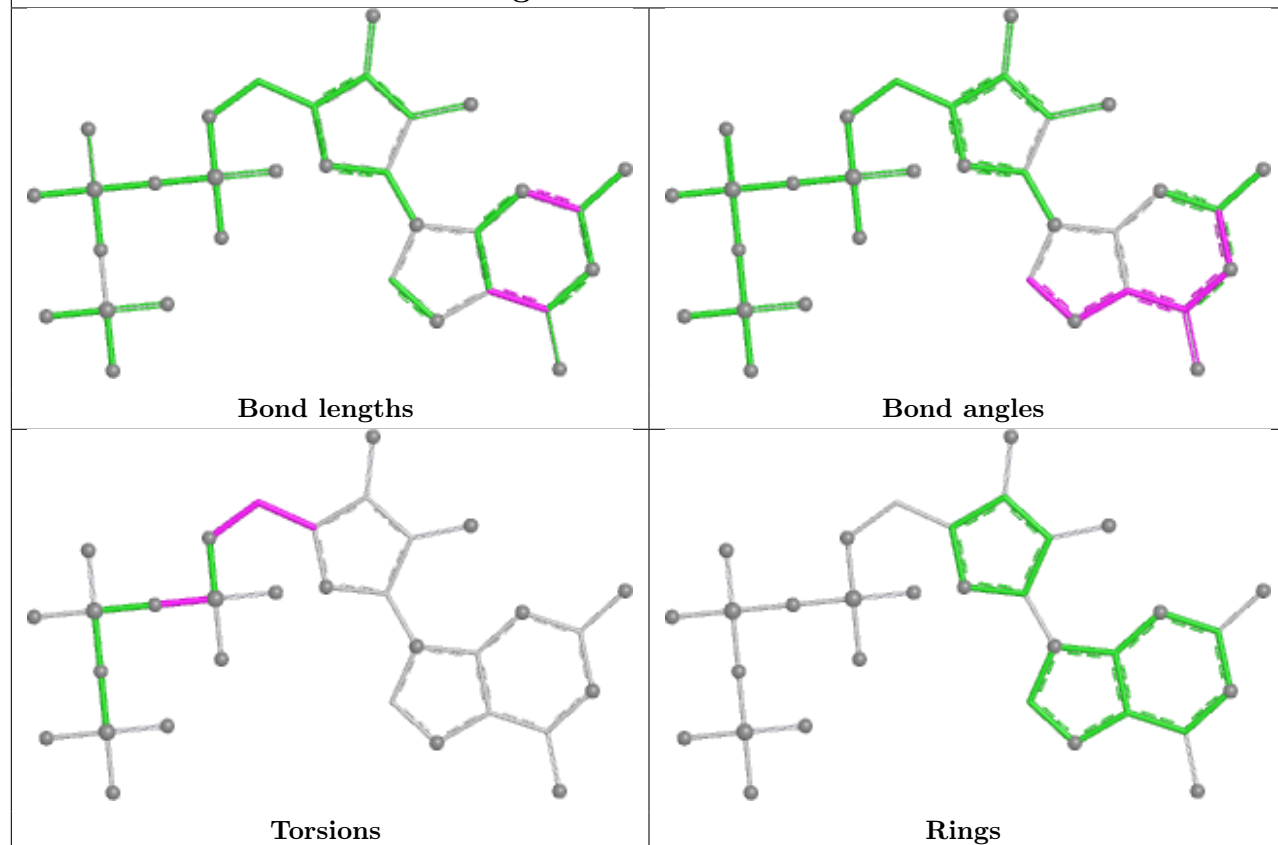
Ligand GTP GE 501



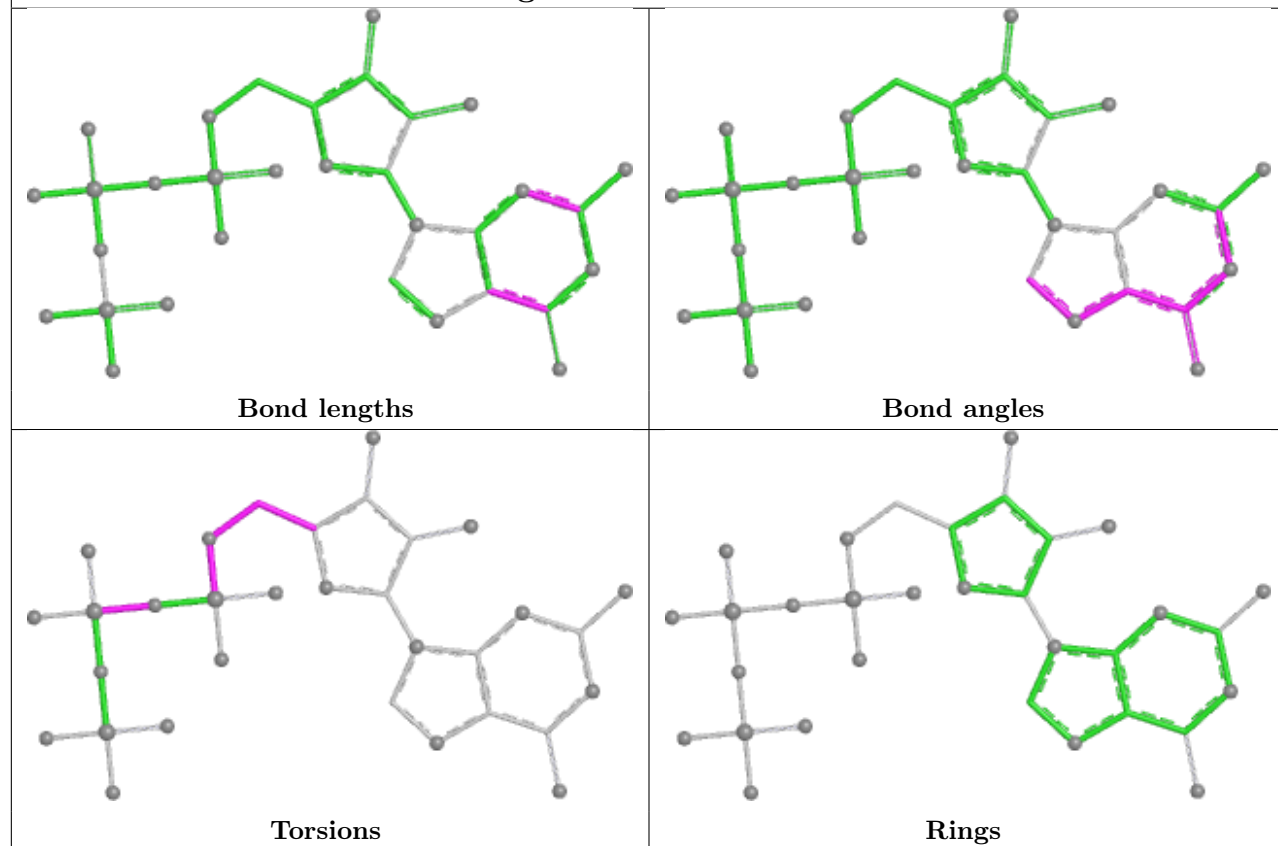
Ligand GDP CH 501

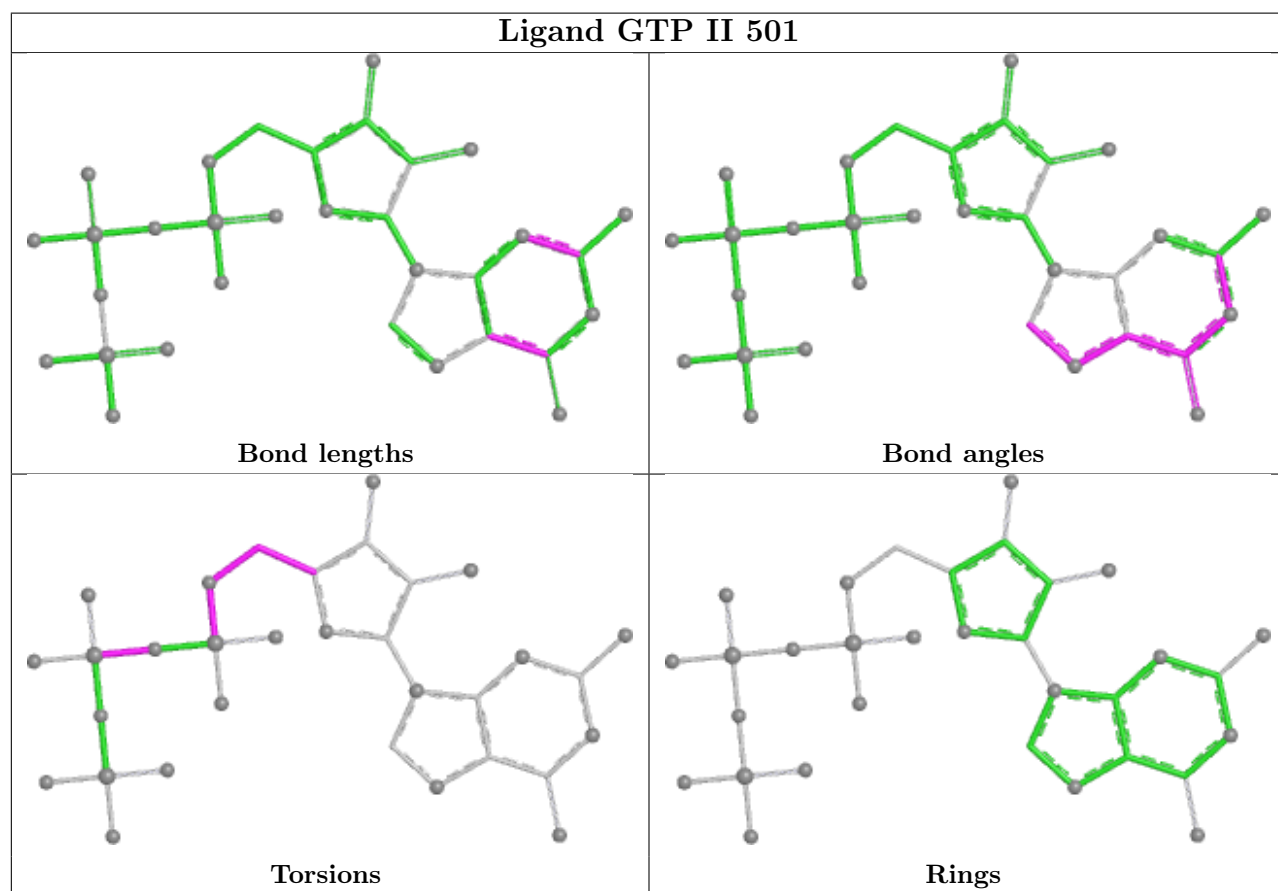
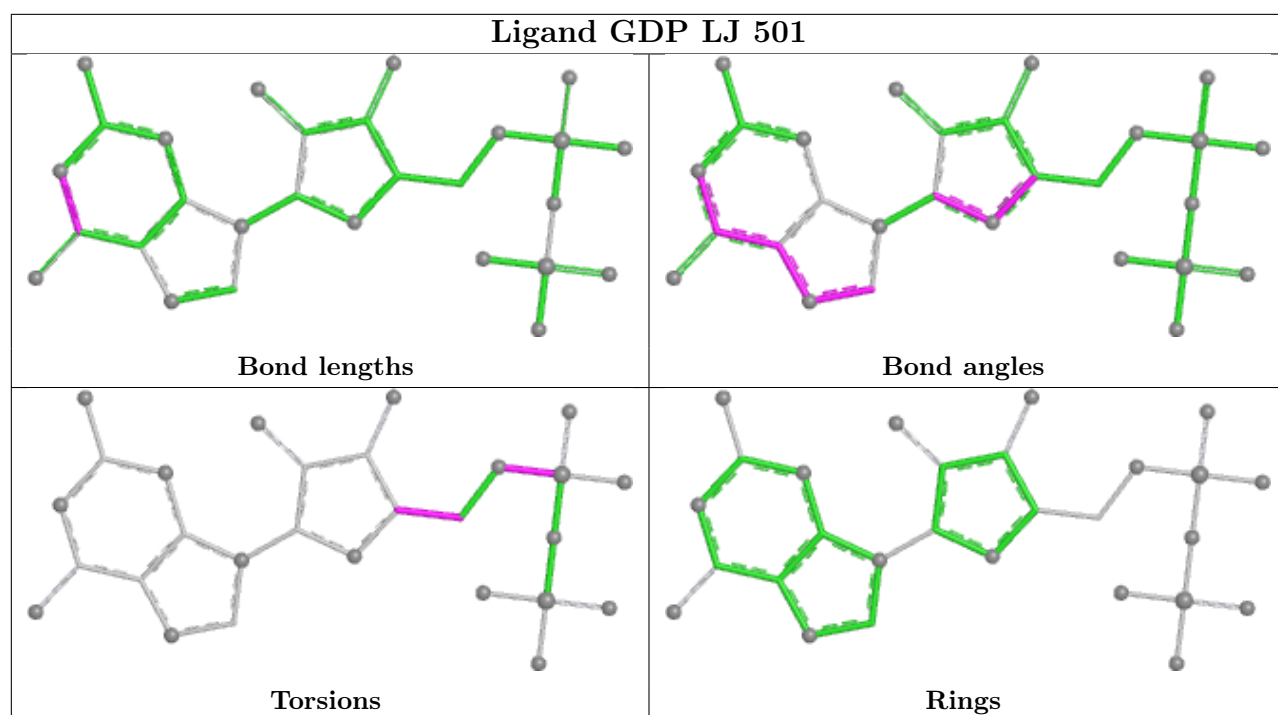


Ligand GTP NM 501

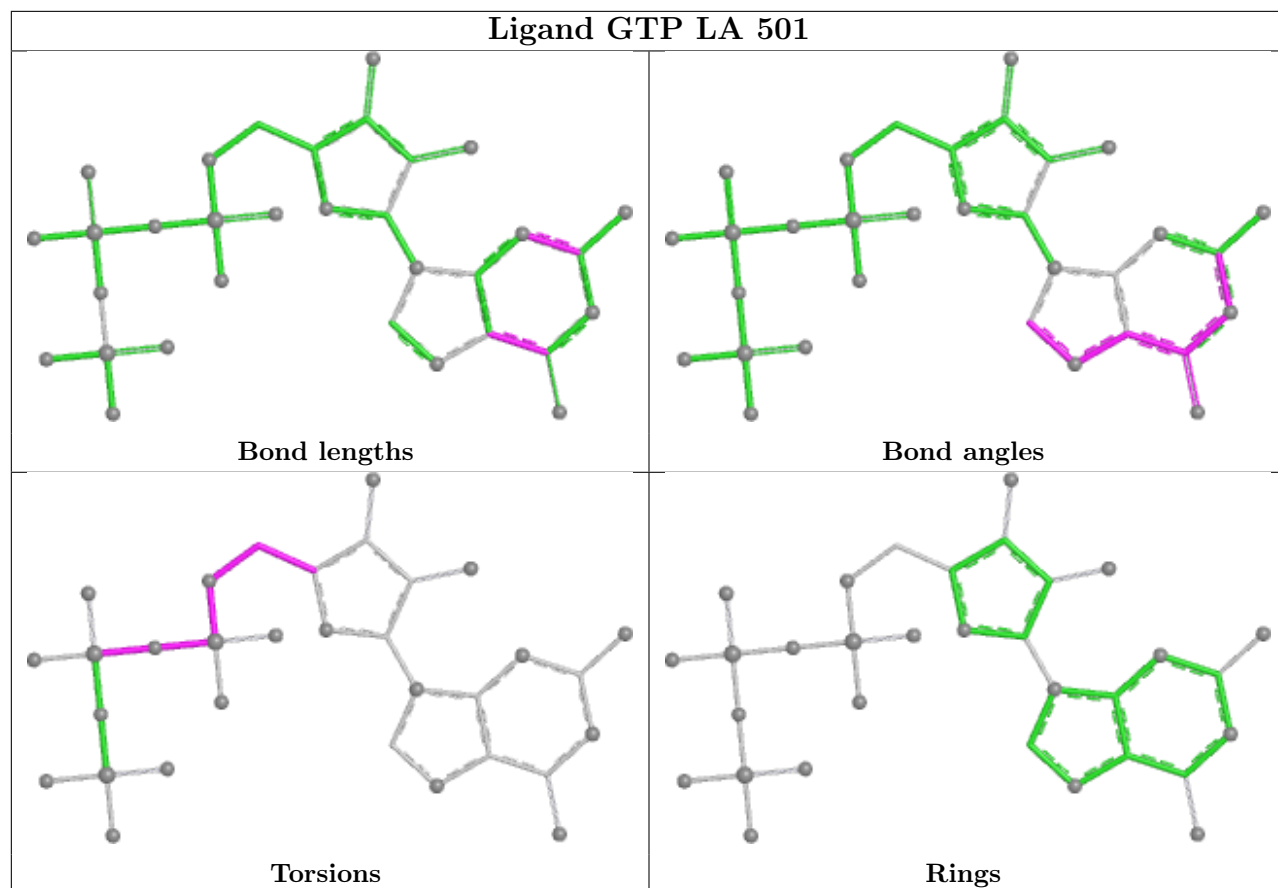


Ligand GTP EG 501

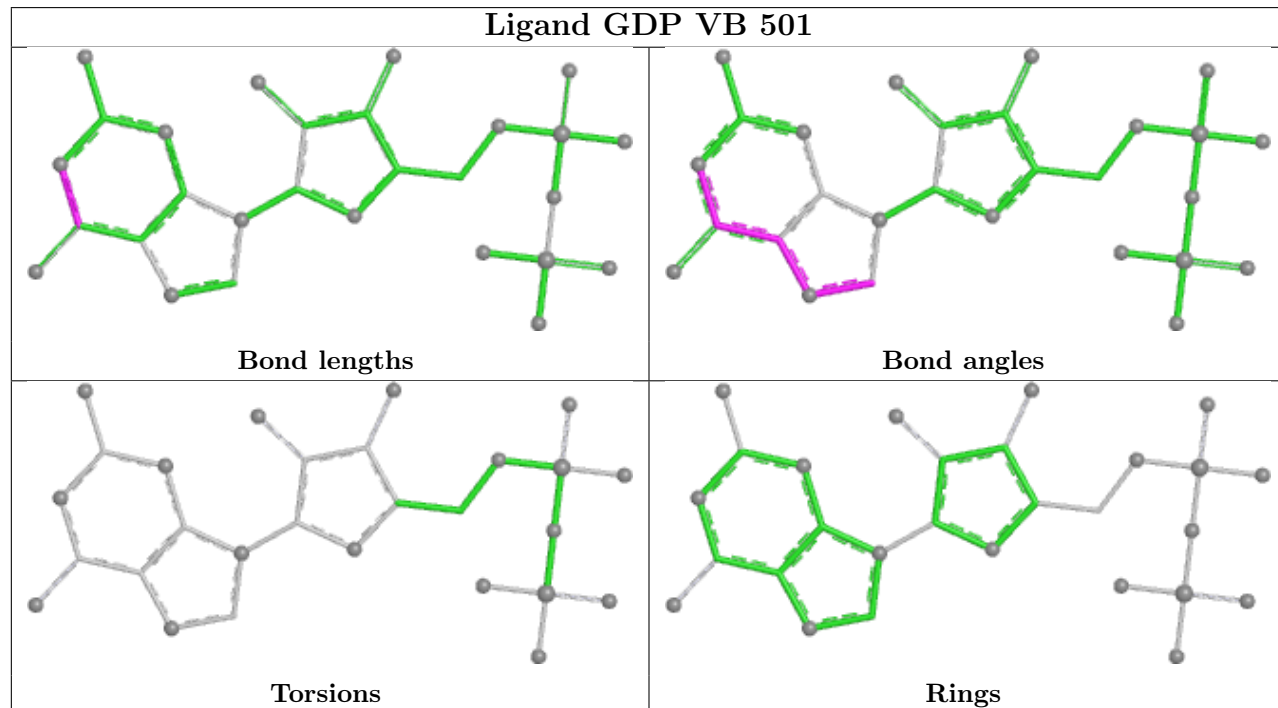


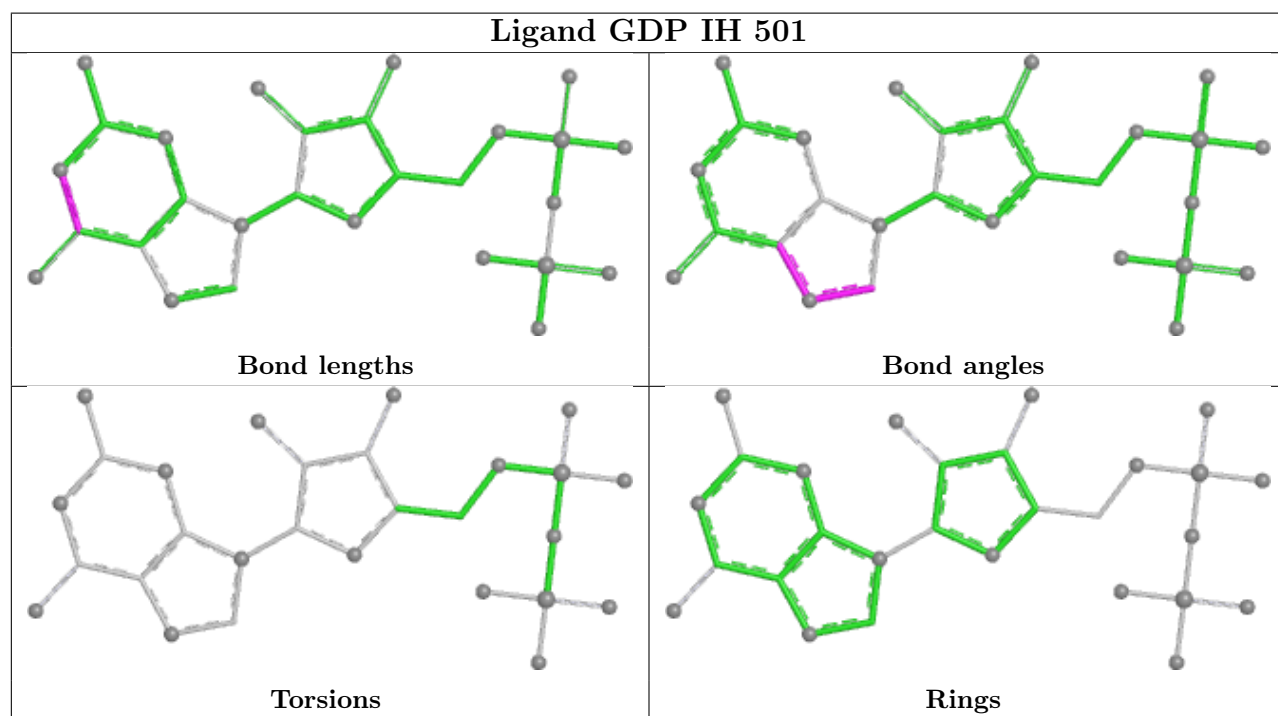
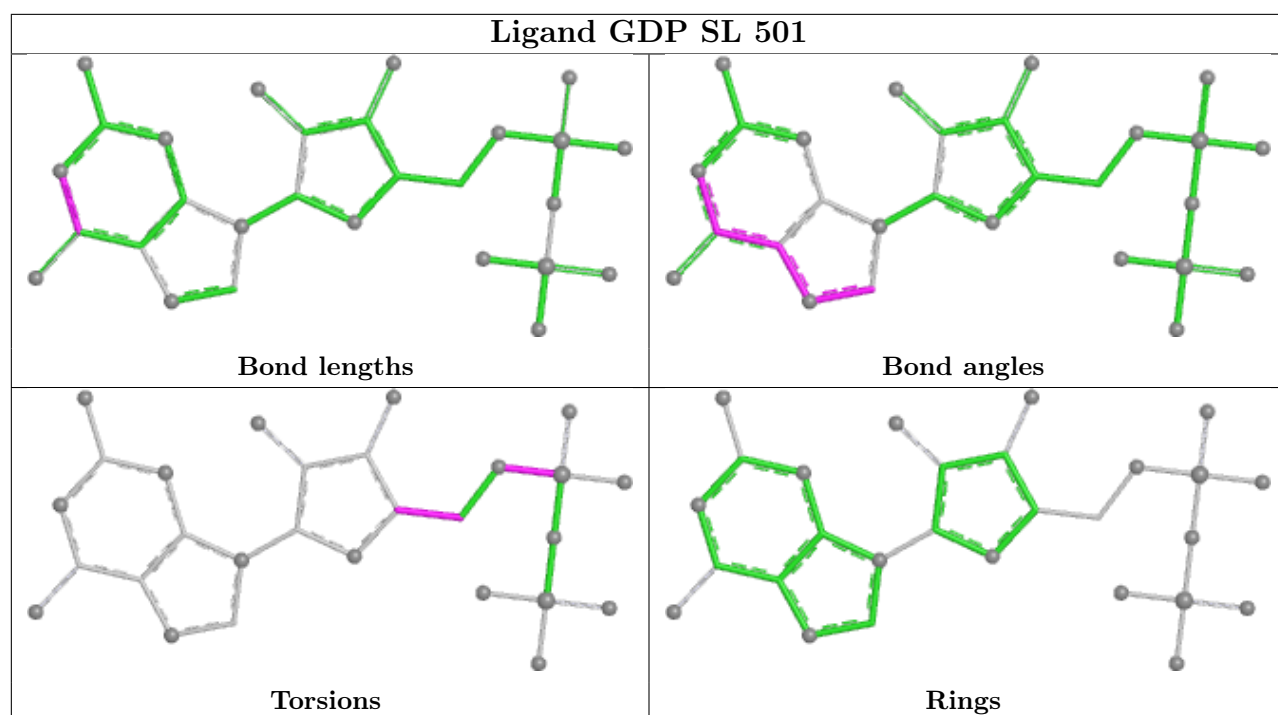


Ligand GTP LA 501

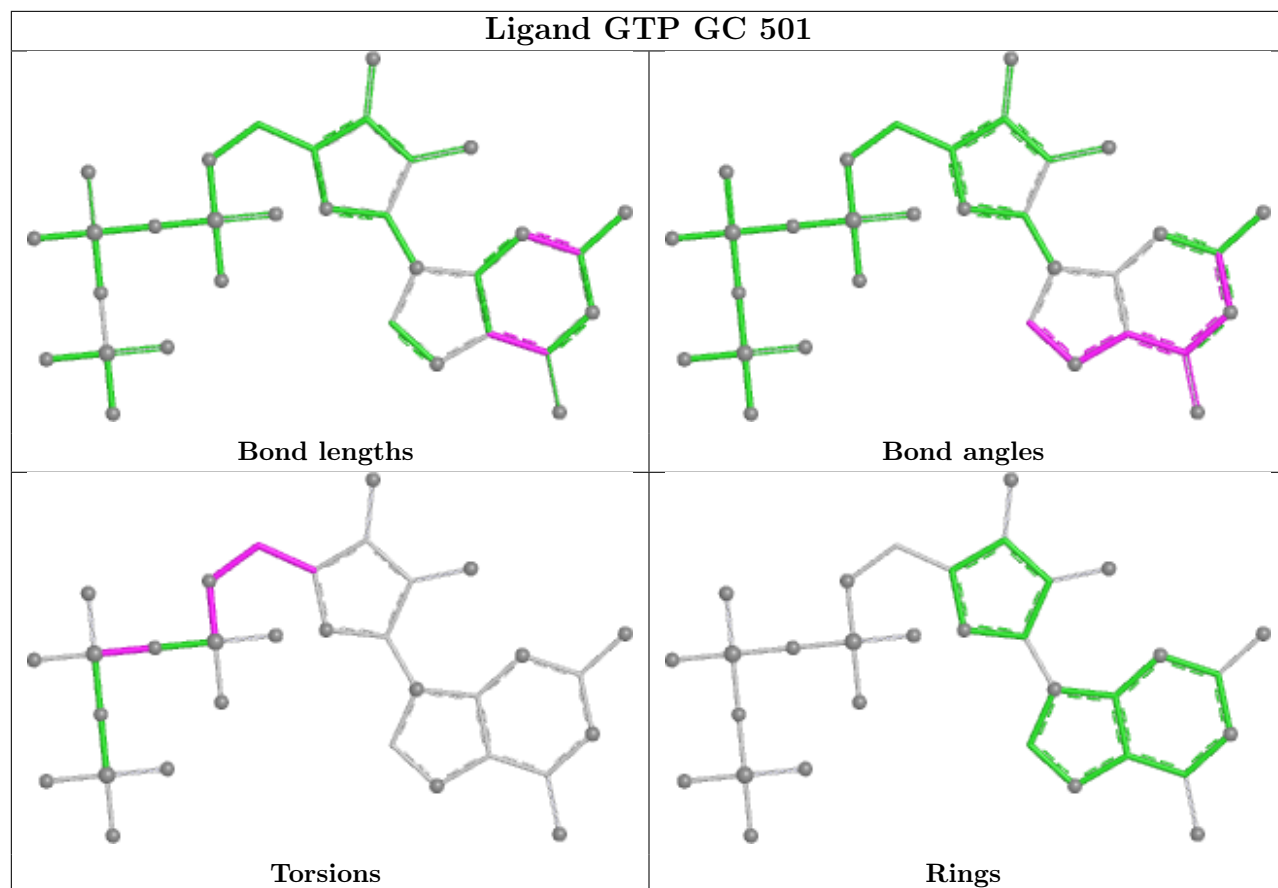


Ligand GDP VB 501

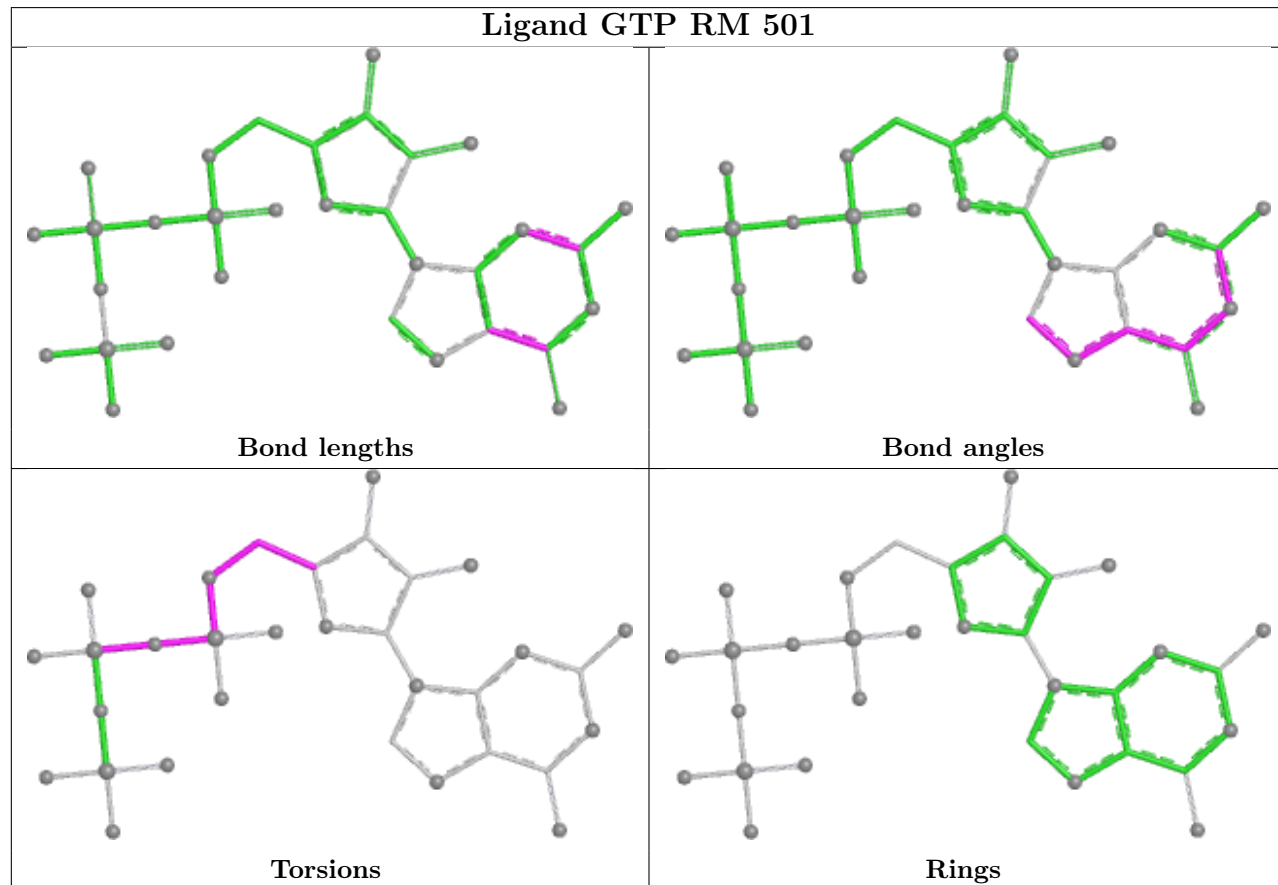




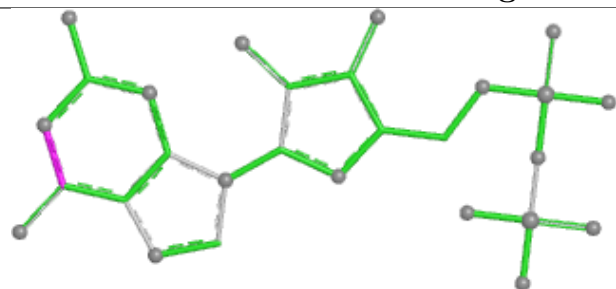
Ligand GTP GC 501



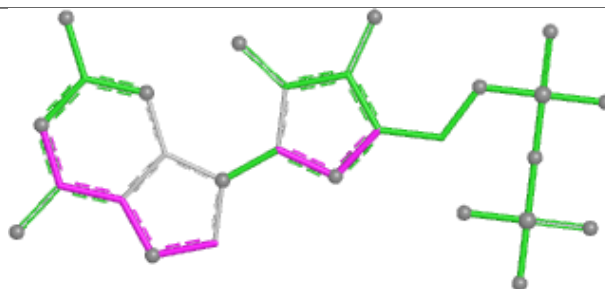
Ligand GTP RM 501



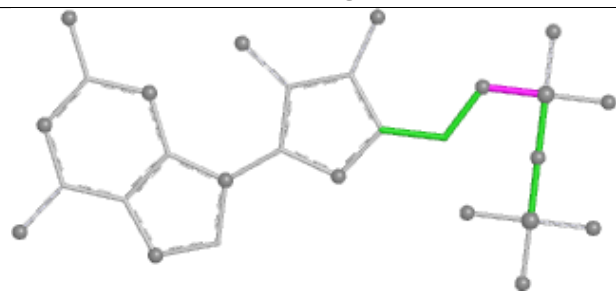
Ligand GDP HD 501



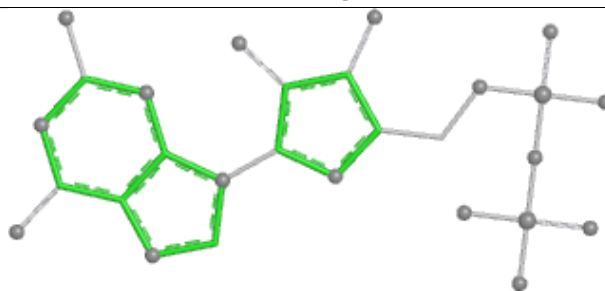
Bond lengths



Bond angles

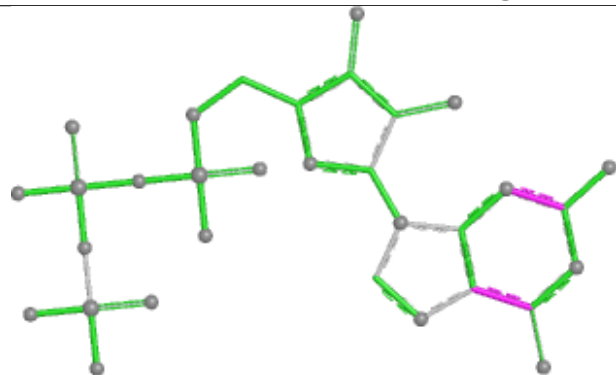


Torsions

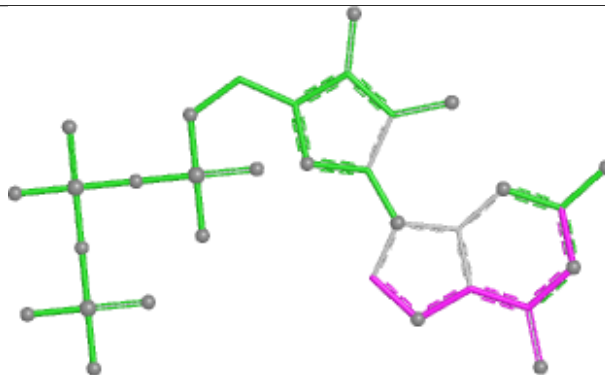


Rings

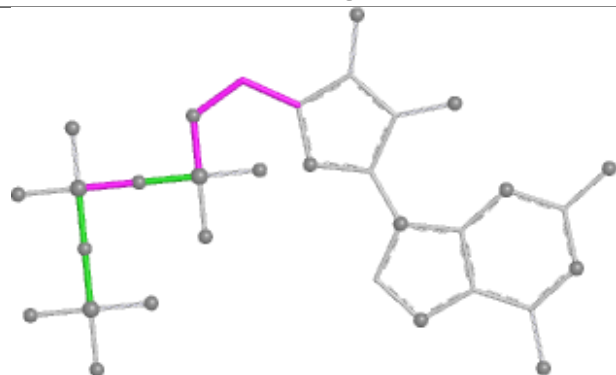
Ligand GTP KM 501



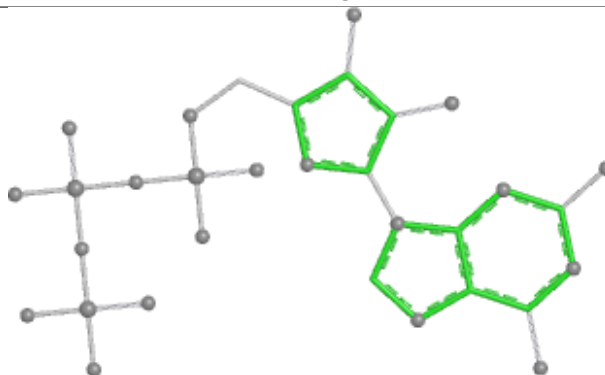
Bond lengths



Bond angles

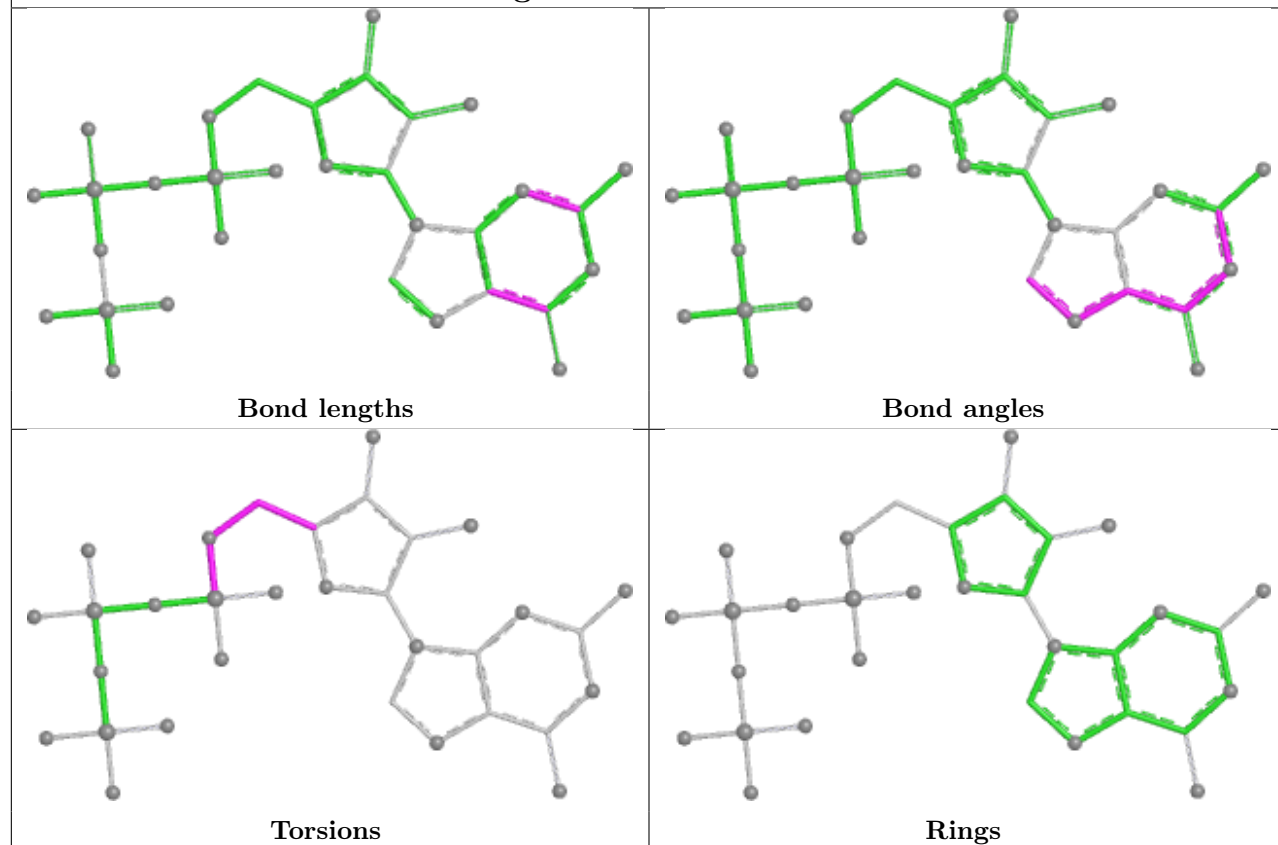


Torsions

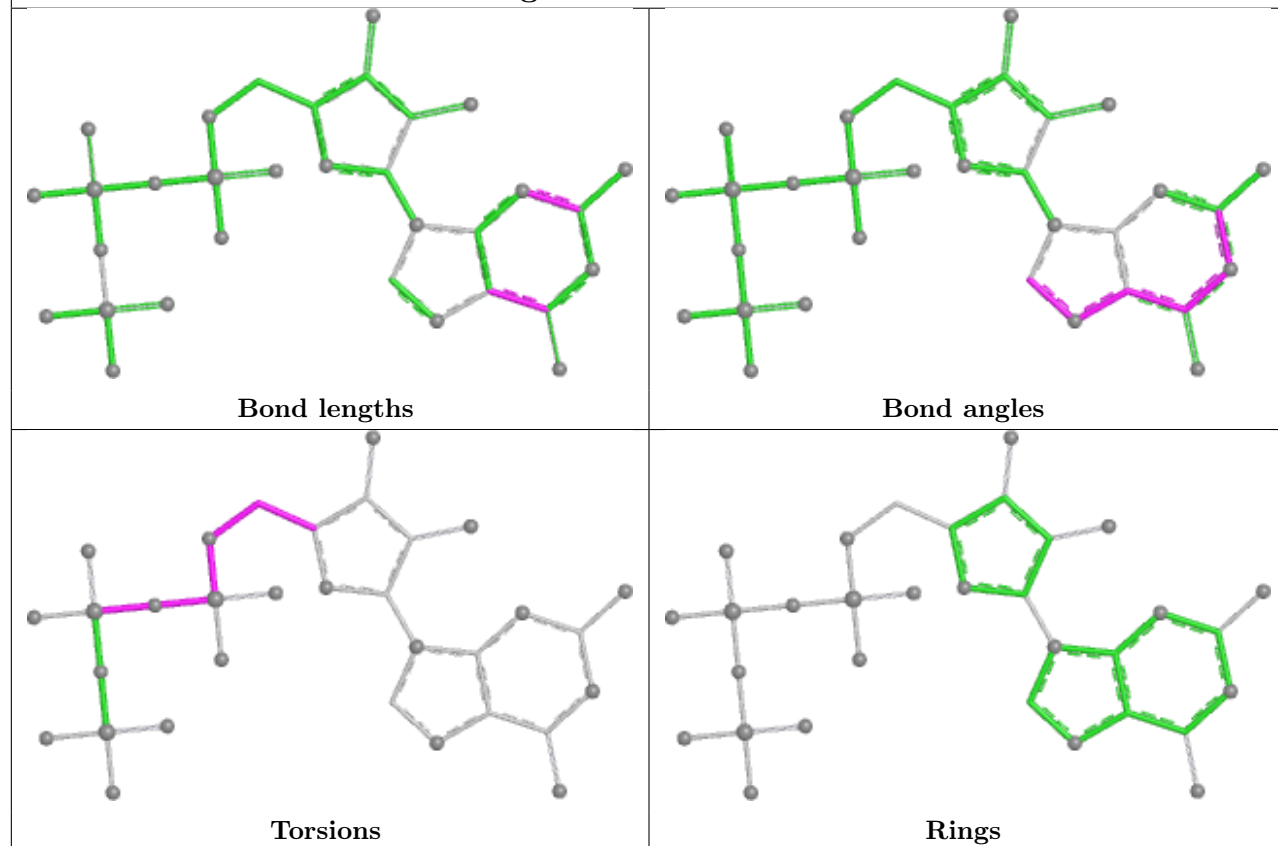


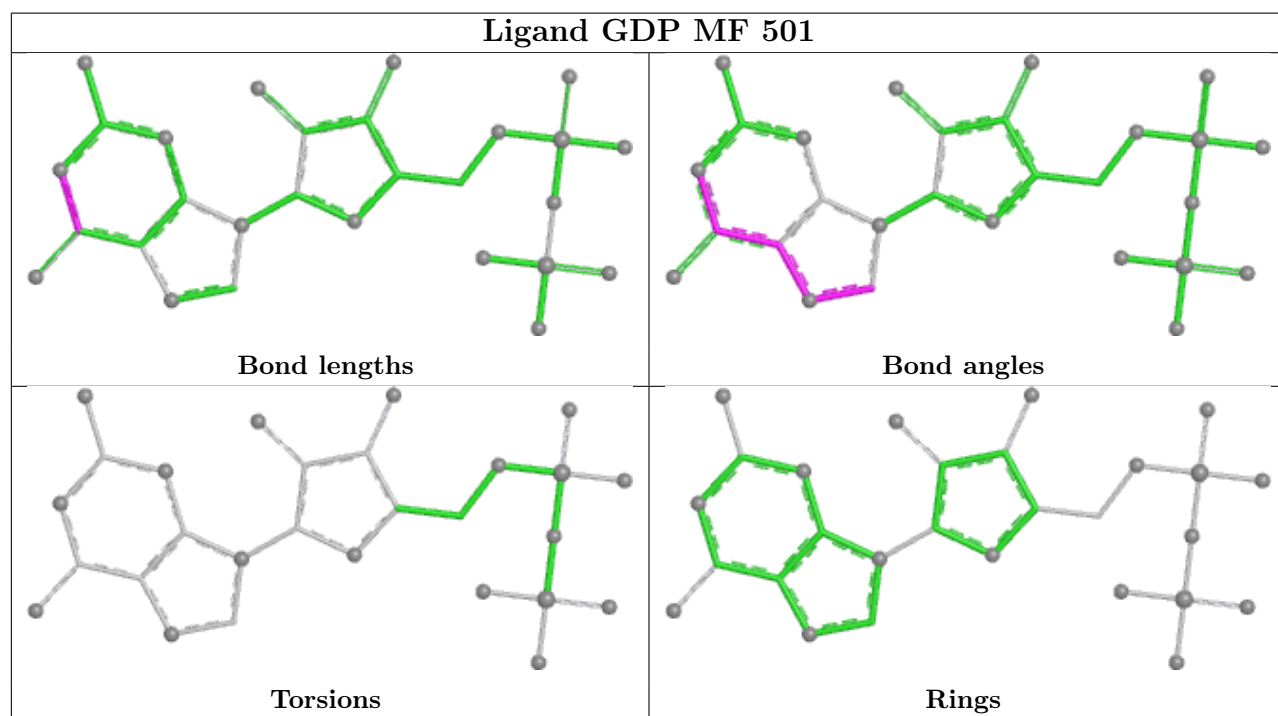
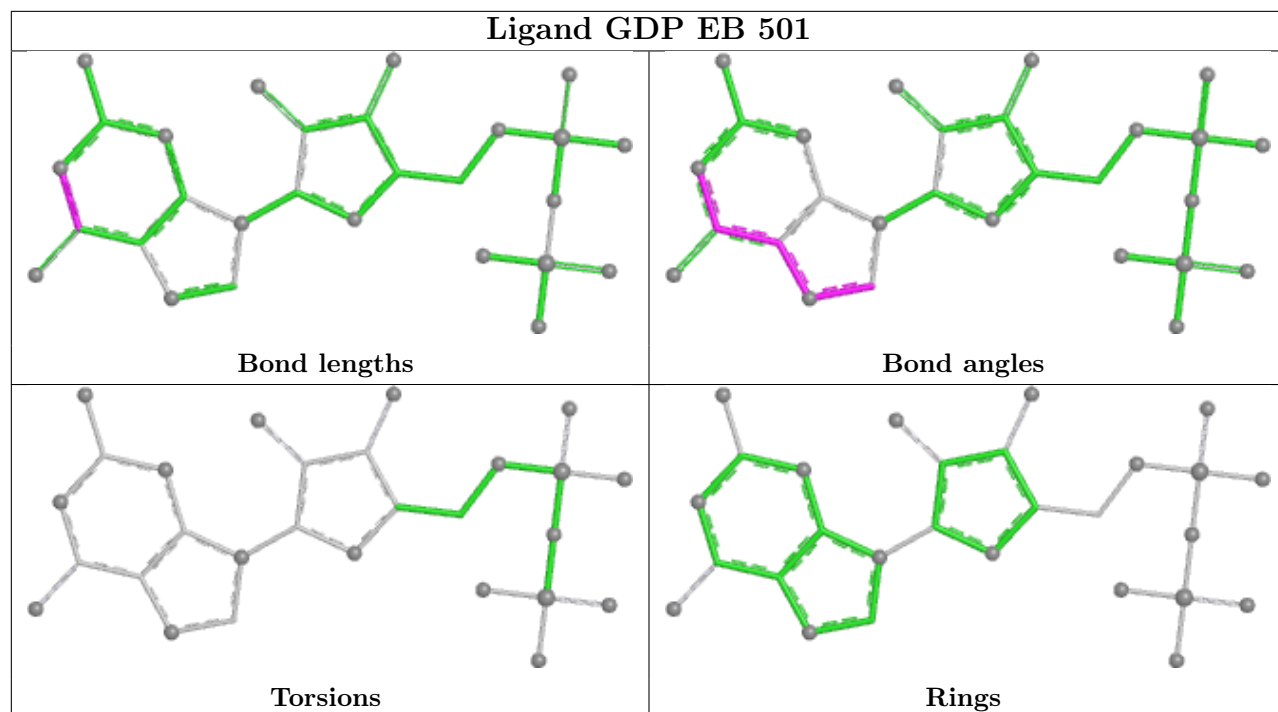
Rings

Ligand GTP WA 501

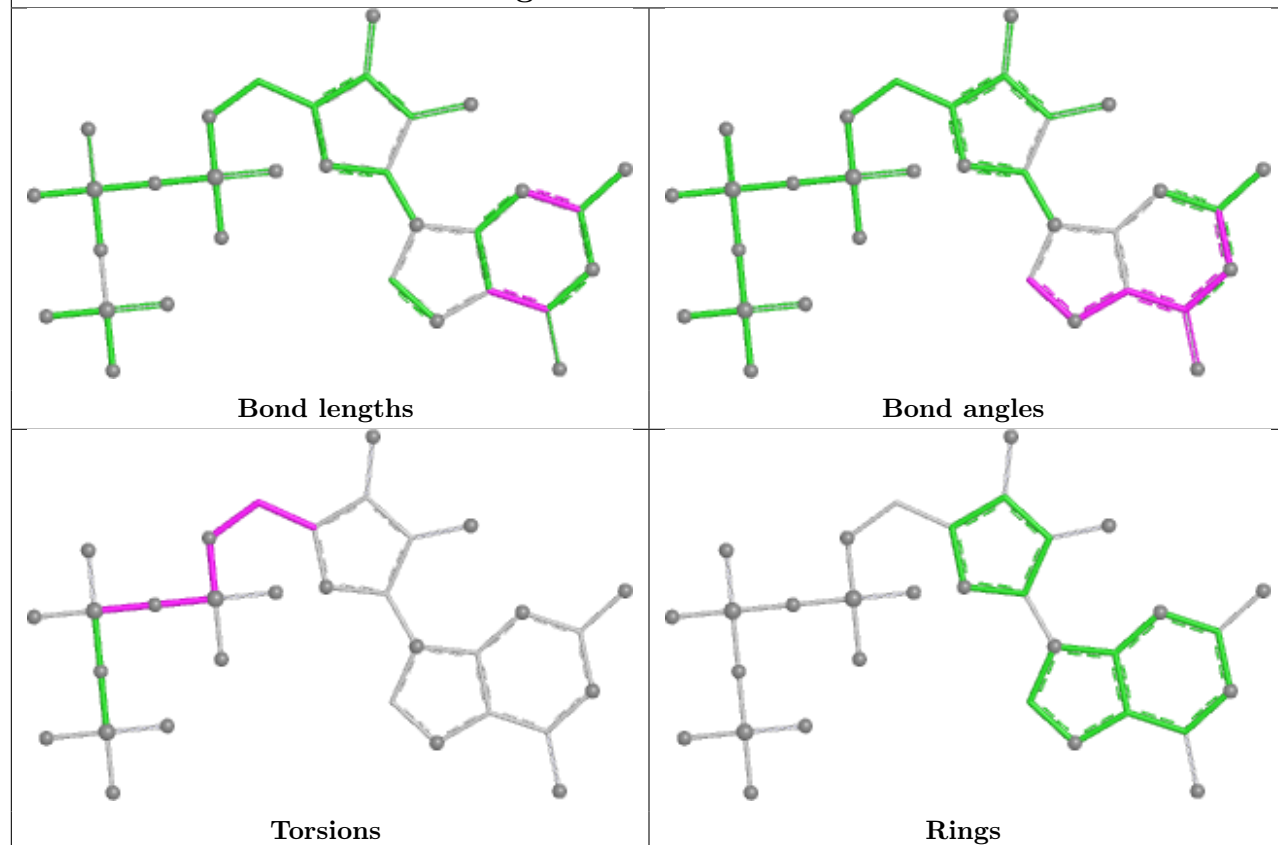


Ligand GTP JK 501

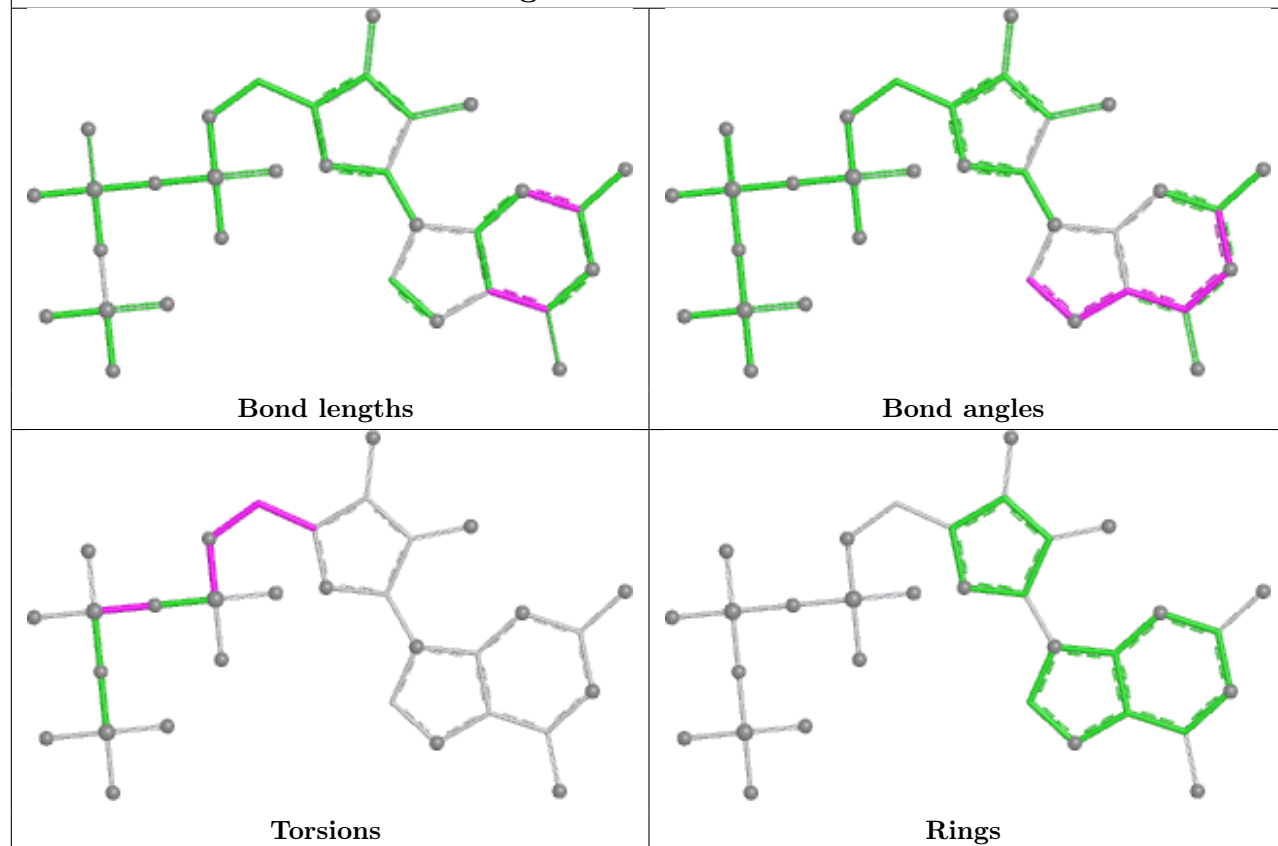




Ligand GTP NA 501



Ligand GTP PE 501



5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	2A	1
1	1A	1
1	0A	1
28	2F	1
1	3A	1
12	0T	1
23	2O	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2A	110:PRO	C	111:SER	N	6.11
1	1A	110:PRO	C	111:SER	N	6.07
1	0A	110:PRO	C	111:SER	N	6.00
1	2F	68:THR	C	69:MET	N	5.77
1	3A	110:PRO	C	111:SER	N	5.47
1	0T	98:LYS	C	102:HIS	N	4.37
1	2O	180:MET	C	181:MET	N	2.68

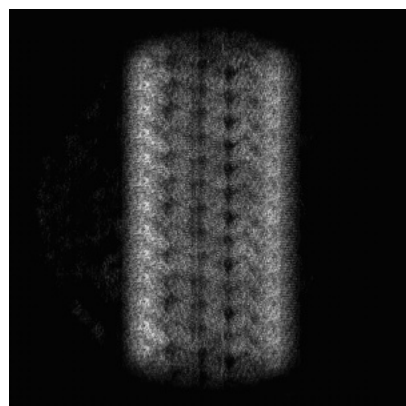
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-29685. These allow visual inspection of the internal detail of the map and identification of artifacts.

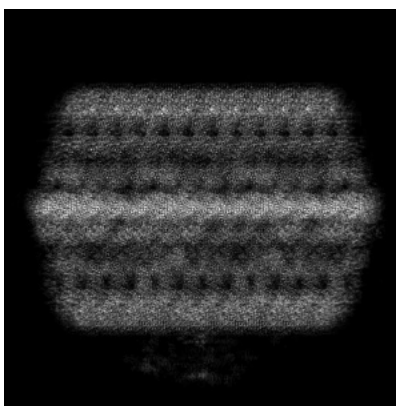
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

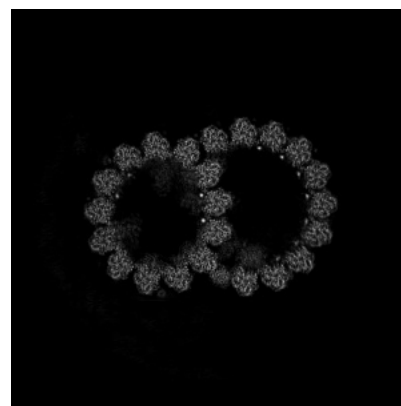
6.1.1 Primary map



X

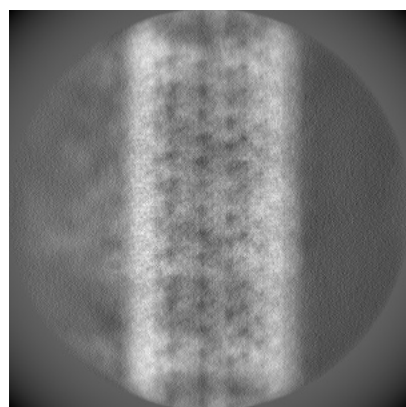


Y

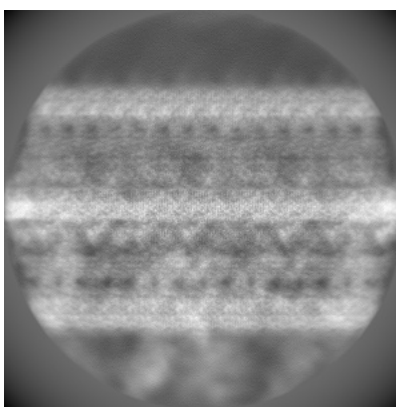


Z

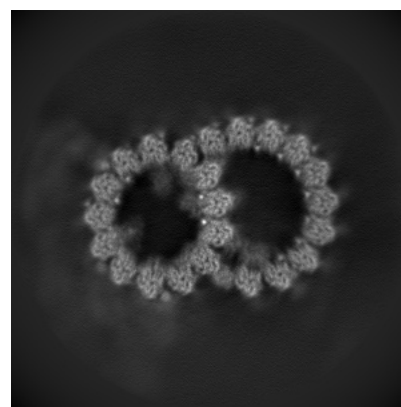
6.1.2 Raw map



X



Y

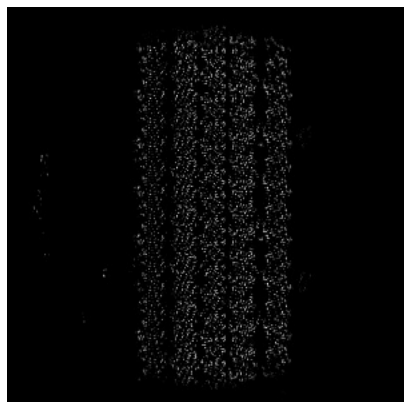


Z

The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

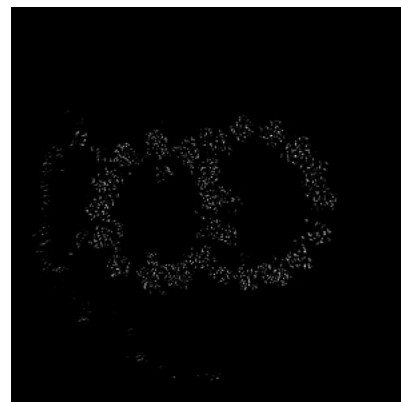
6.2.1 Primary map



X Index: 256

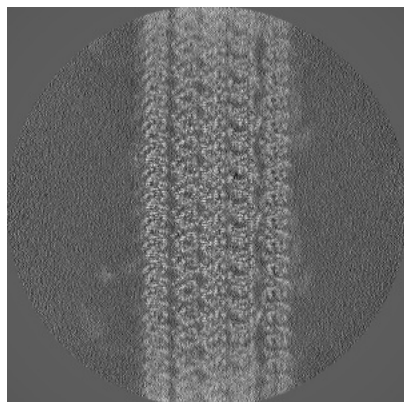


Y Index: 256

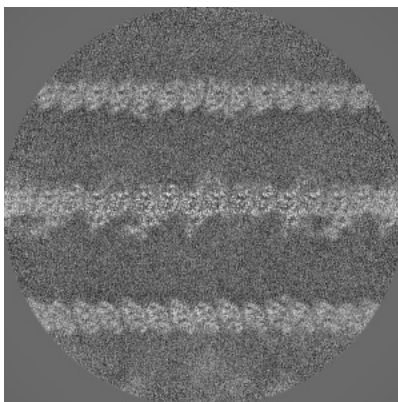


Z Index: 256

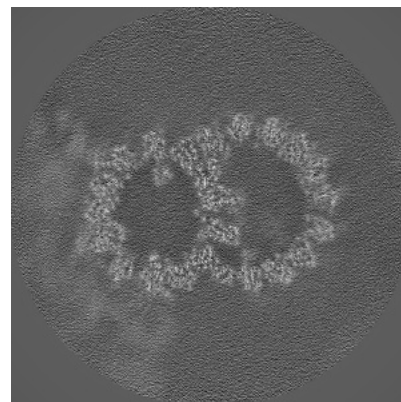
6.2.2 Raw map



X Index: 256



Y Index: 256

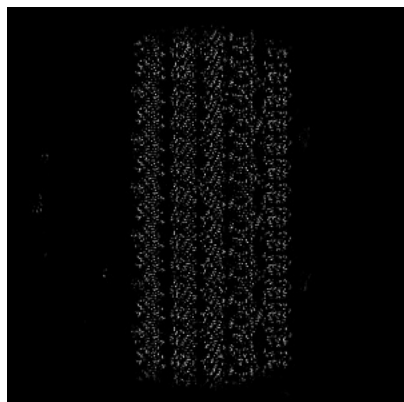


Z Index: 256

The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

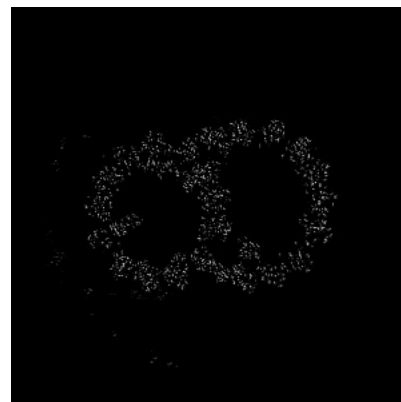
6.3.1 Primary map



X Index: 258

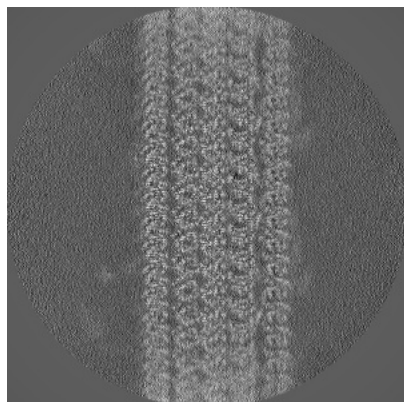


Y Index: 176

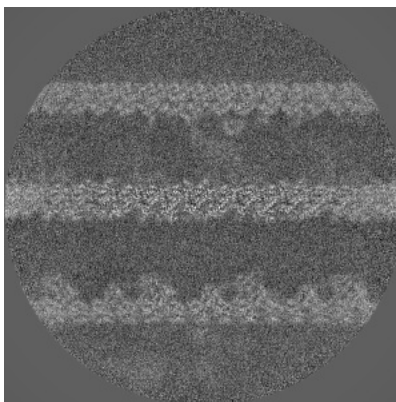


Z Index: 200

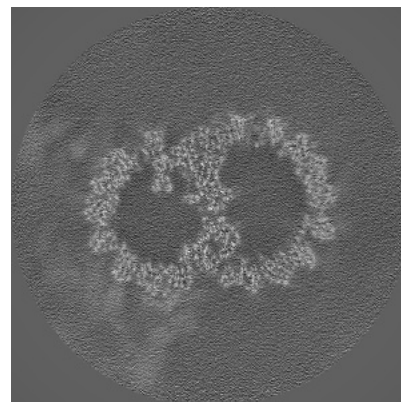
6.3.2 Raw map



X Index: 256



Y Index: 223

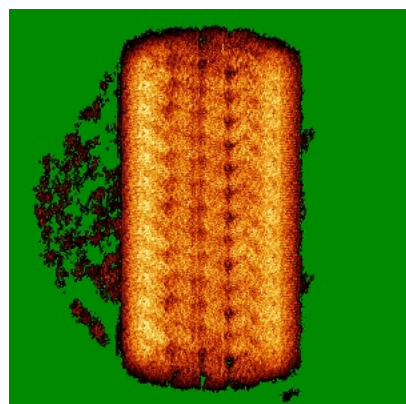


Z Index: 229

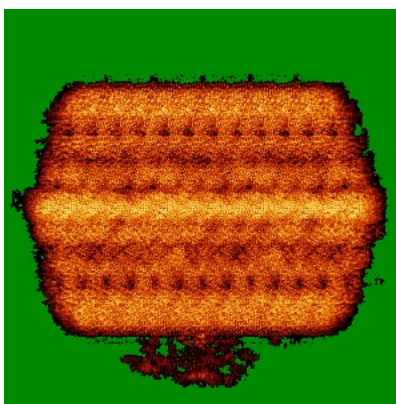
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

6.4.1 Primary map



X

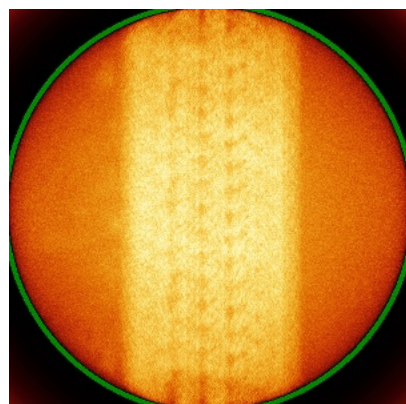


Y

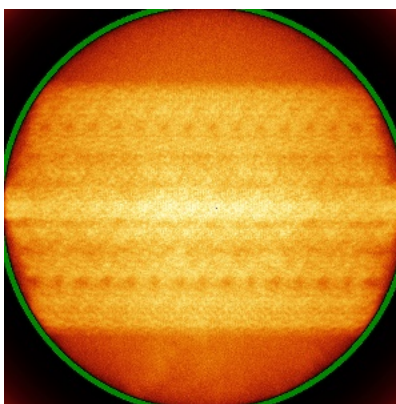


Z

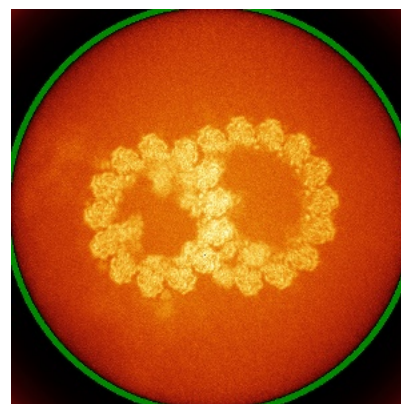
6.4.2 Raw map



X



Y

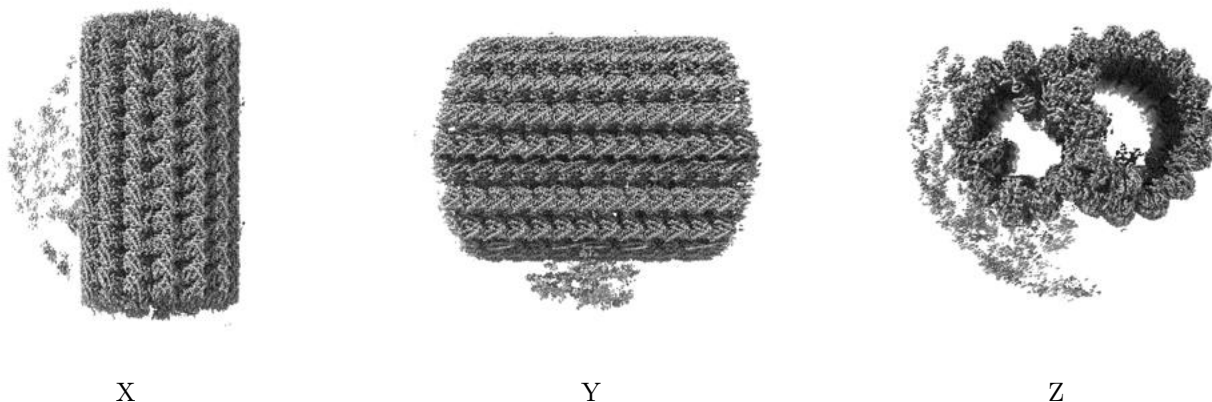


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

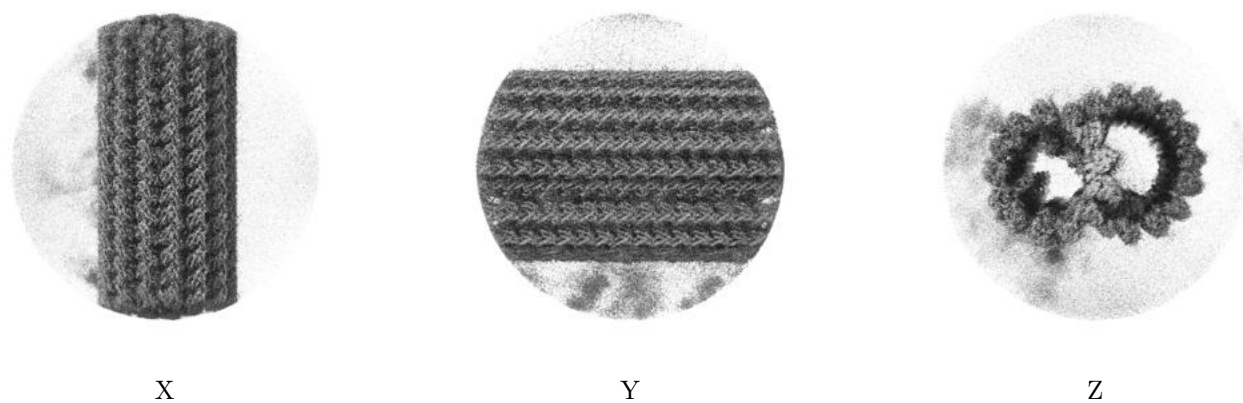
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.15. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

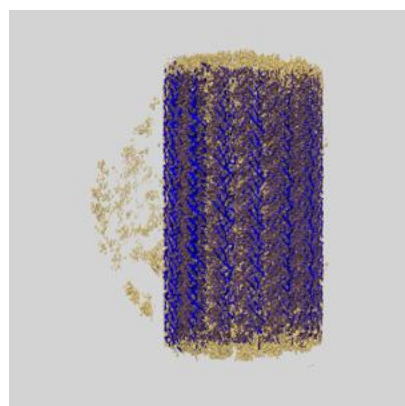
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

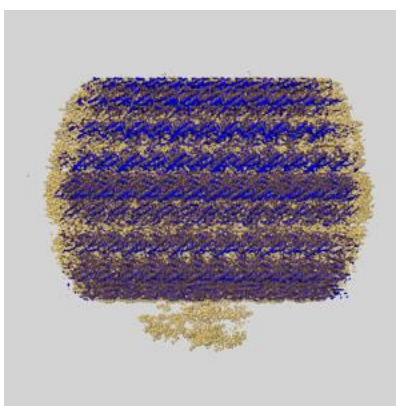
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

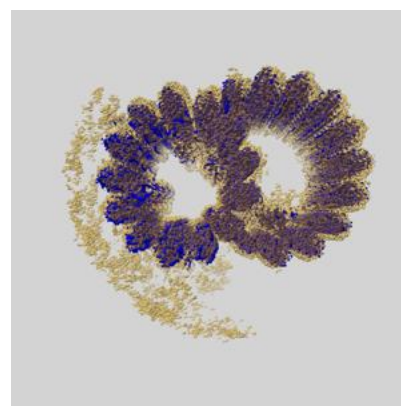
6.6.1 emd_29685_msk_1.map [i](#)



X



Y

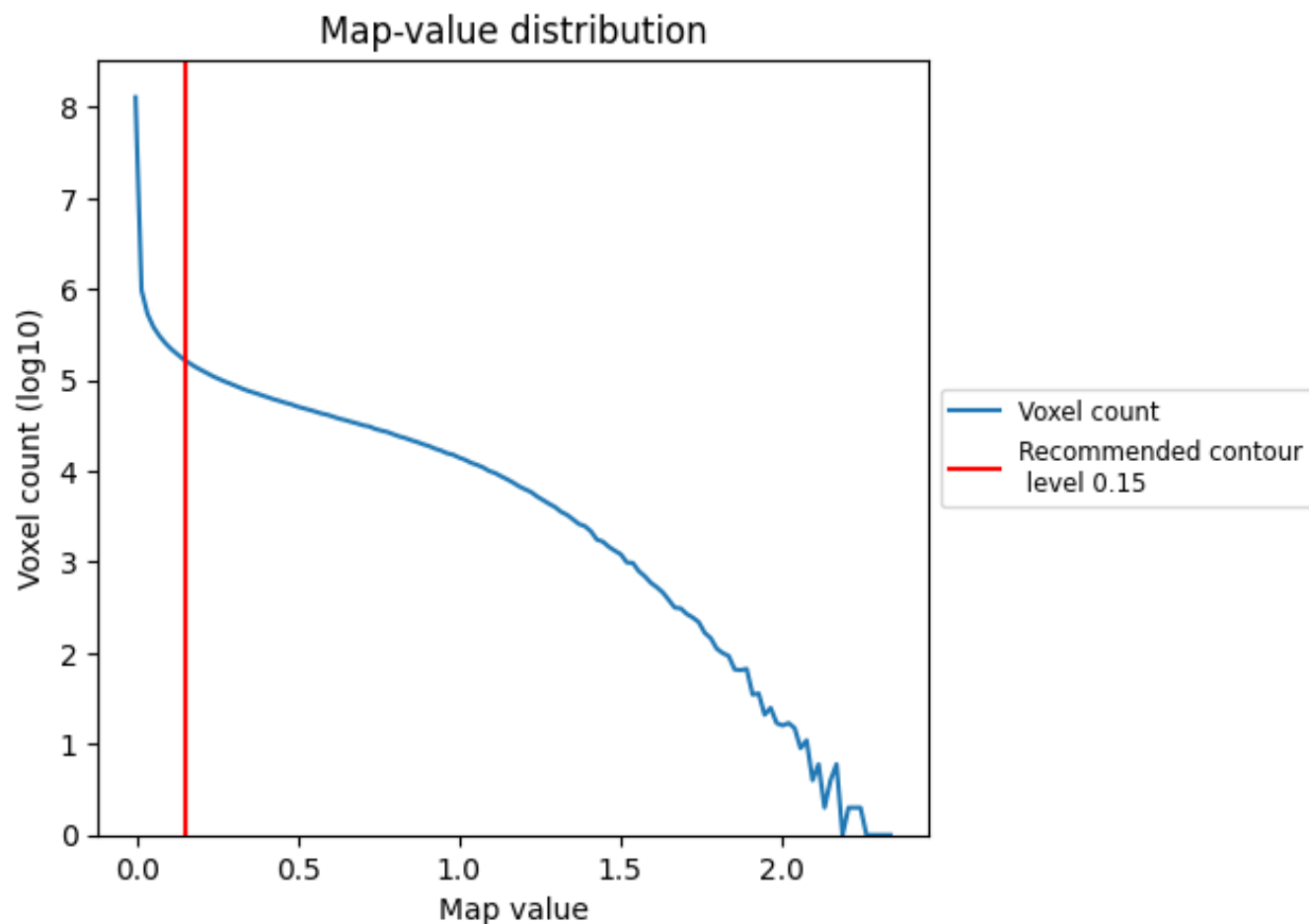


Z

7 Map analysis [i](#)

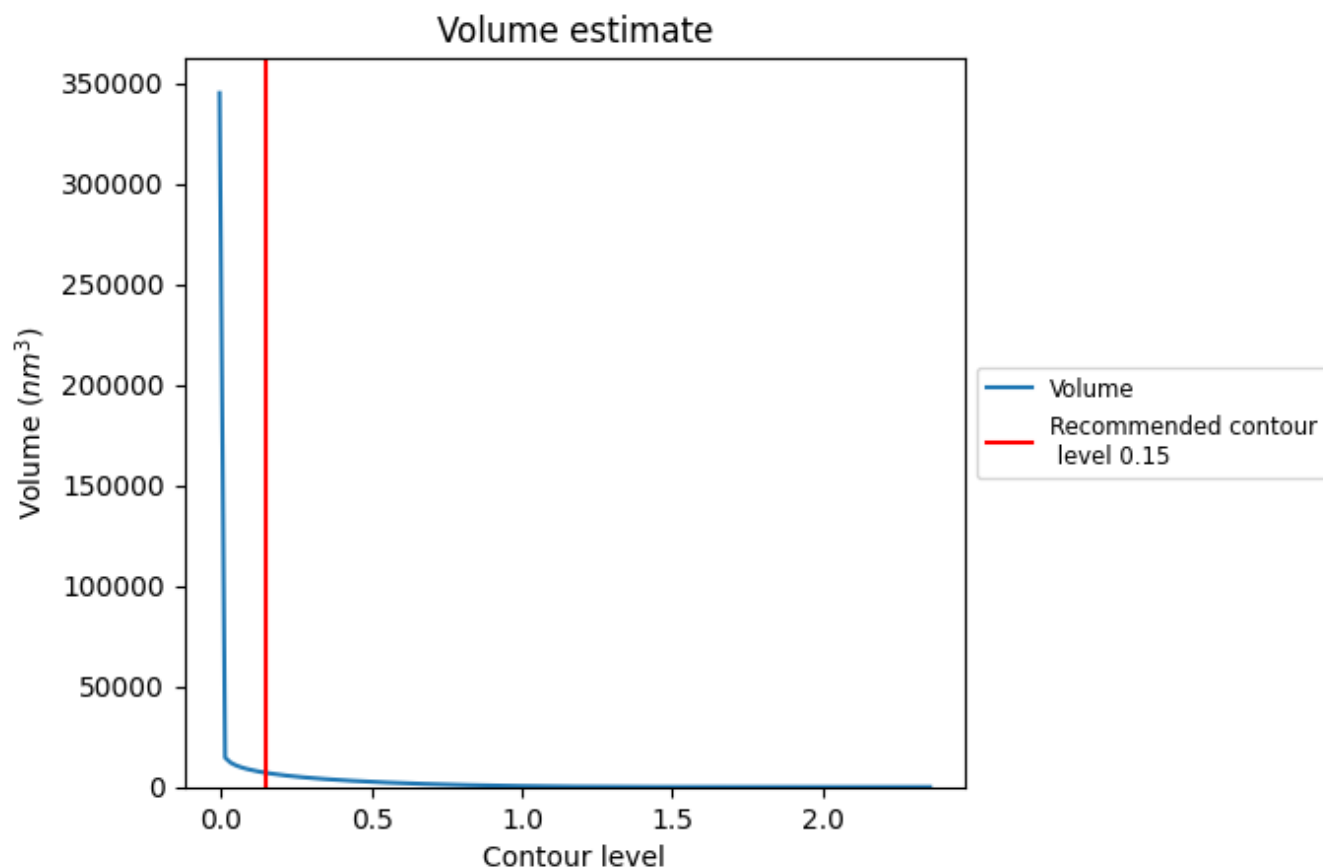
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

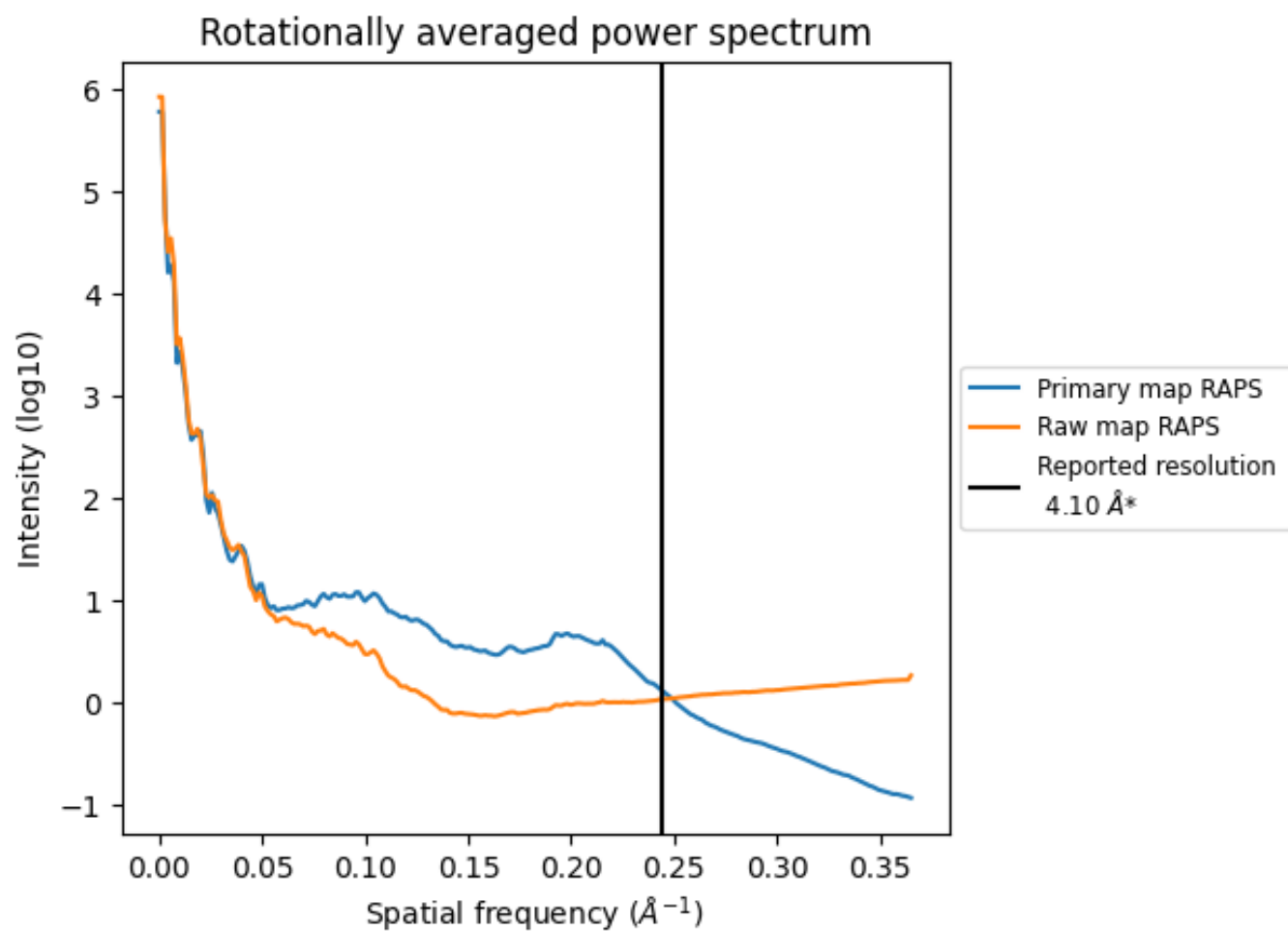
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 7038 nm^3 ; this corresponds to an approximate mass of 6357 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

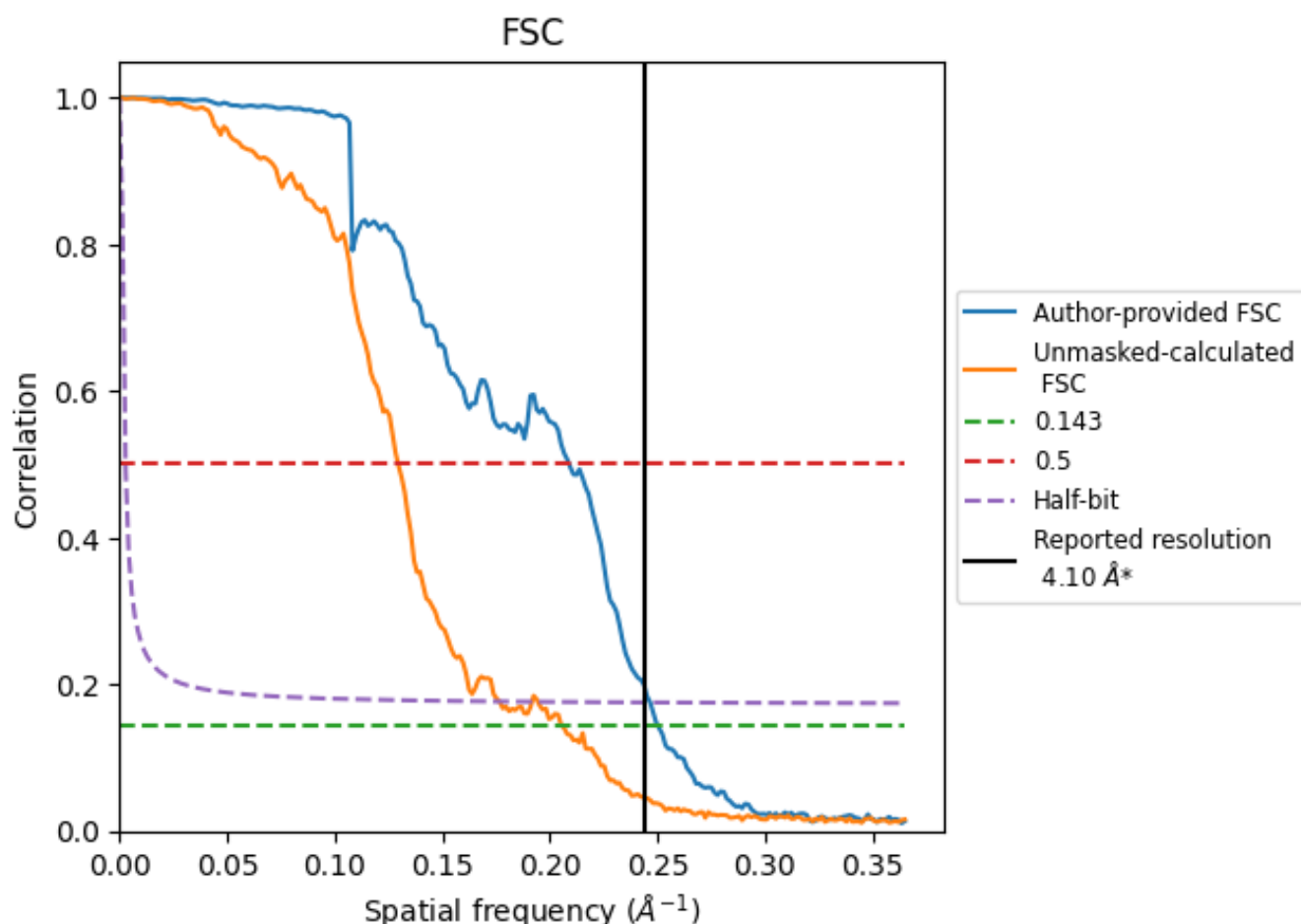


*Reported resolution corresponds to spatial frequency of 0.244 \AA^{-1}

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.244 Å⁻¹

8.2 Resolution estimates [i](#)

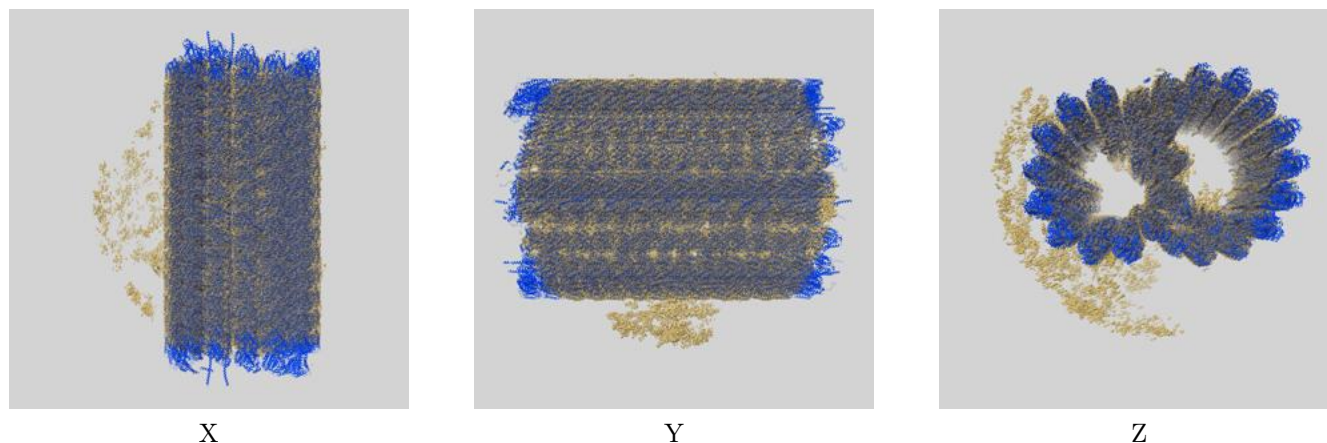
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.10	-	-
Author-provided FSC curve	4.00	4.78	4.05
Unmasked-calculated*	4.86	7.72	5.67

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 4.86 differs from the reported value 4.1 by more than 10 %

9 Map-model fit [i](#)

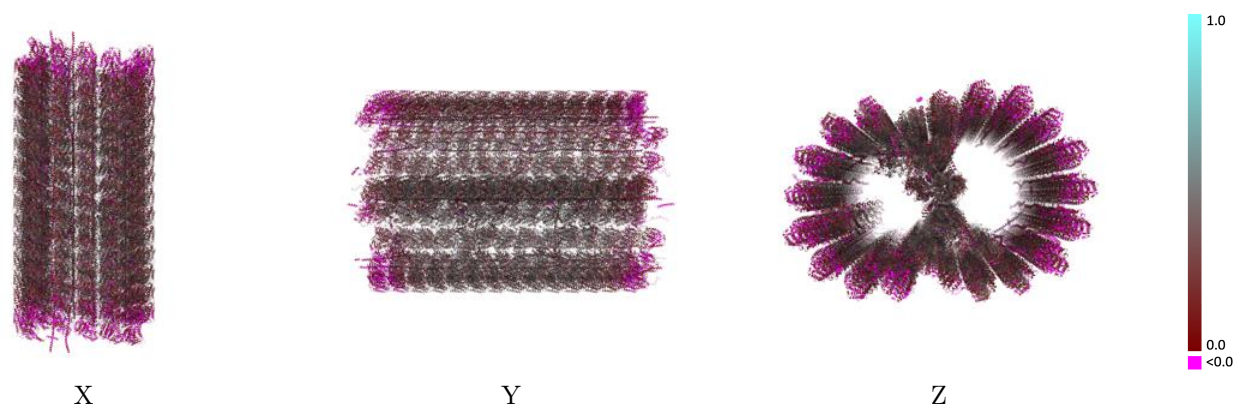
This section contains information regarding the fit between EMDB map EMD-29685 and PDB model 8G2Z. Per-residue inclusion information can be found in section [3](#) on page [71](#).

9.1 Map-model overlay [i](#)



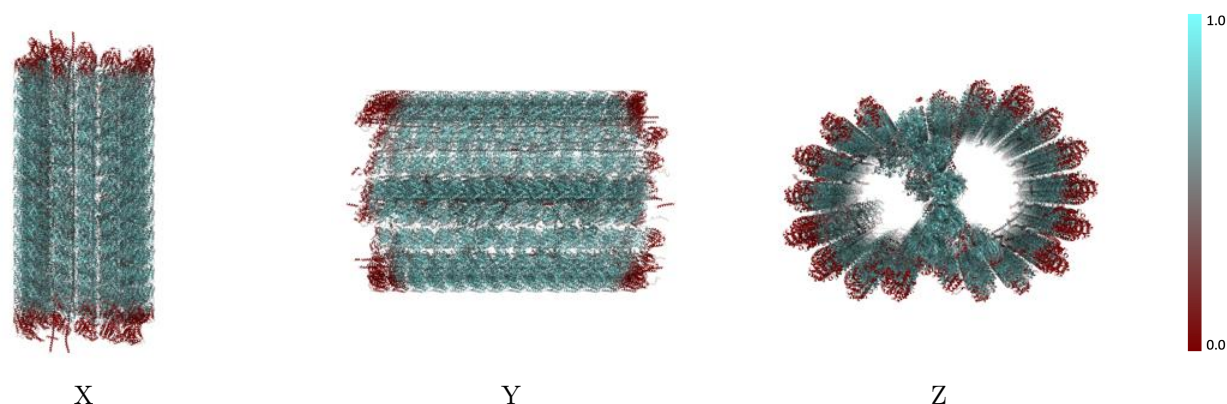
The images above show the 3D surface view of the map at the recommended contour level 0.15 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



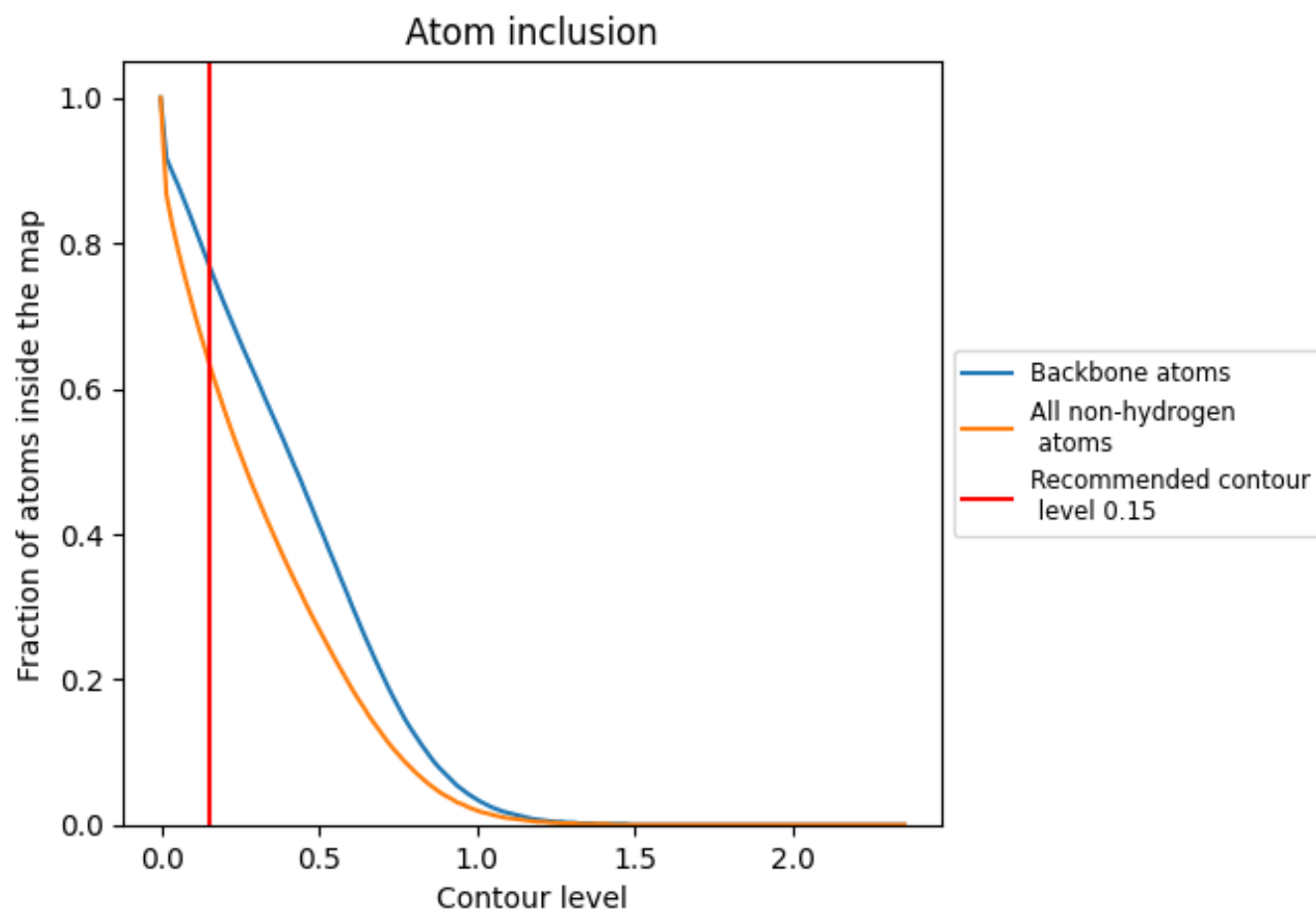
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.15).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 77% of all backbone atoms, 64% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ





















































































The table lists the average atom inclusion at the recommended contour level (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.6350	 0.2870
0A	 0.6270	 0.2850
0B	 0.7020	 0.3390
0C	 0.6590	 0.2830
0D	 0.4860	 0.1340
0E	 0.4270	 0.1140
0F	 0.6730	 0.2870
0G	 0.5630	 0.2310
0H	 0.3130	 0.0690
0N	 0.6690	 0.2830
0Q	 0.6950	 0.3030
0S	 0.3450	 0.1700
0T	 0.3810	 0.2120
0U	 0.6490	 0.2860
0V	 0.3220	 0.1440
0X	 0.6190	 0.2700
1A	 0.6250	 0.3300
1B	 0.6590	 0.3000
1C	 0.6690	 0.2570
1D	 0.5820	 0.2640
1E	 0.4750	 0.2120
1F	 0.6510	 0.3180
1G	 0.5670	 0.2220
1H	 0.3960	 0.1160
1I	 0.6710	 0.3240
1J	 0.5980	 0.2620
1K	 0.5000	 0.1890
1L	 0.5870	 0.2700
1M	 0.7080	 0.3460
1N	 0.7050	 0.3380
1O	 0.3310	 0.0650
1P	 0.4110	 0.0930
1Q	 0.7350	 0.3550
1R	 0.6960	 0.3450
1S	 0.7010	 0.3410























































































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Chain	Atom inclusion	Q-score
1T	 0.7190	 0.3760
1U	 0.7190	 0.3500
1V	 0.5620	 0.2500
1W	 0.6570	 0.3050
1X	 0.6790	 0.3550
2A	 0.6660	 0.3430
2B	 0.6340	 0.2800
2C	 0.5680	 0.2020
2D	 0.5680	 0.2430
2E	 0.5390	 0.2350
2F	 0.6600	 0.2910
2G	 0.6680	 0.3100
2H	 0.6050	 0.3290
2I	 0.5660	 0.2640
2K	 0.4450	 0.1560
2L	 0.3740	 0.1590
2M	 0.7450	 0.3700
2N	 0.5800	 0.2080
2O	 0.3850	 0.0520
2P	 0.4280	 0.1250
2Q	 0.7370	 0.3520
2R	 0.7090	 0.3620
2S	 0.6930	 0.3390
2T	 0.7380	 0.3700
2U	 0.7200	 0.3410
2V	 0.5600	 0.2450
2W	 0.4220	 0.1170
2X	 0.6870	 0.3440
3A	 0.6540	 0.3140
3B	 0.5800	 0.2380
3C	 0.6340	 0.2710
3D	 0.3550	 0.2420
3E	 0.2920	 0.0800
3H	 0.5950	 0.3190
3I	 0.7040	 0.3220
3L	 0.2740	 0.0410
3O	 0.3560	 0.0500
3Q	 0.7310	 0.3560
3R	 0.6980	 0.3480
3S	 0.6950	 0.3200
3T	 0.7160	 0.3540
3U	 0.6100	 0.2660





















































































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Chain	Atom inclusion	Q-score
3V	 0.5220	 0.2240
3X	 0.6450	 0.3150
4C	 0.6120	 0.2600
4F	 0.6090	 0.2780
4H	 0.6190	 0.3360
4Q	 0.7280	 0.3560
4R	 0.6910	 0.3500
4S	 0.6600	 0.3150
4X	 0.6460	 0.2980
5A	 0.5170	 0.2410
5B	 0.6500	 0.3190
5C	 0.6580	 0.3260
5D	 0.5100	 0.2510
5E	 0.3130	 0.1210
5F	 0.4260	 0.2120
5G	 0.4780	 0.2440
5H	 0.3940	 0.1430
5I	 0.2700	 0.1310
5J	 0.3190	 0.2170
5K	 0.1850	 0.0640
5Q	 0.7190	 0.3490
5R	 0.7080	 0.3460
5S	 0.6700	 0.3220
6F	 0.6980	 0.3660
6G	 0.5490	 0.1970
6H	 0.6170	 0.2460
6Q	 0.6620	 0.2980
6R	 0.5210	 0.2160
7R	 0.5490	 0.2300
8L	 0.6500	 0.1740
8N	 0.5800	 0.1110
8P	 0.6570	 0.1800
8R	 0.6270	 0.1770
AA	 0.7390	 0.3500
AB	 0.4970	 0.2450
AC	 0.7700	 0.4050
AD	 0.7710	 0.3870
AE	 0.7780	 0.4230
AF	 0.7690	 0.4050
AG	 0.7670	 0.4100
AH	 0.7600	 0.4020
AI	 0.7750	 0.4080





















































































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Chain	Atom inclusion	Q-score
AJ	 0.7620	 0.4030
AK	 0.7740	 0.4080
AL	 0.7730	 0.4080
AM	 0.7420	 0.3490
AN	 0.7690	 0.3820
BA	 0.5690	 0.2260
BB	 0.0830	 0.0170
BC	 0.7410	 0.3410
BD	 0.7260	 0.3190
BE	 0.7490	 0.3730
BF	 0.7460	 0.3660
BG	 0.7480	 0.3710
BH	 0.7350	 0.3510
BI	 0.7730	 0.3870
BJ	 0.7530	 0.3790
BK	 0.7520	 0.3700
BL	 0.7480	 0.3700
BM	 0.6930	 0.2930
BN	 0.7450	 0.3380
CA	 0.2480	 0.0830
CB	 0.6510	 0.2380
CC	 0.7040	 0.3080
CD	 0.7440	 0.3450
CE	 0.7300	 0.3520
CF	 0.7290	 0.3270
CG	 0.7280	 0.3460
CH	 0.7380	 0.3550
CI	 0.7480	 0.3670
CJ	 0.7500	 0.3500
CK	 0.7330	 0.3470
CL	 0.6950	 0.2970
CM	 0.5950	 0.2200
CN	 0.0150	 0.0060
DA	 0.0240	 0.0130
DB	 0.4770	 0.1790
DC	 0.6960	 0.2740
DD	 0.7530	 0.3340
DE	 0.7370	 0.3480
DF	 0.7590	 0.3500
DG	 0.7330	 0.3320
DH	 0.7510	 0.3510
DI	 0.7410	 0.3490





















































































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Chain	Atom inclusion	Q-score
DJ	 0.7570	 0.3480
DK	 0.7510	 0.3330
DL	 0.7010	 0.2760
DM	 0.5790	 0.2040
DN	 0.0330	 -0.0070
EA	 0.0000	 0.0450
EB	 0.2380	 0.0770
EC	 0.6040	 0.2260
ED	 0.7040	 0.3040
EE	 0.7220	 0.3390
EF	 0.7180	 0.3380
EG	 0.7080	 0.3380
EH	 0.6980	 0.3200
EI	 0.7260	 0.3510
EJ	 0.7220	 0.3410
EK	 0.7290	 0.3400
EL	 0.6770	 0.2890
EM	 0.5610	 0.2120
EN	 0.0430	 -0.0070
FA	 0.6100	 0.2230
FB	 0.1590	 0.0540
FC	 0.7580	 0.3550
FD	 0.7300	 0.3150
FE	 0.7570	 0.3710
FF	 0.7560	 0.3660
FG	 0.7440	 0.3560
FH	 0.7380	 0.3490
FI	 0.7630	 0.3700
FJ	 0.7580	 0.3650
FK	 0.6930	 0.2910
FL	 0.7440	 0.3340
FM	 0.0000	 0.0090
FN	 0.1680	 0.0210
GA	 0.5900	 0.2170
GB	 0.0800	 -0.0020
GC	 0.7510	 0.3590
GD	 0.7480	 0.3270
GE	 0.7620	 0.3770
GF	 0.7510	 0.3730
GG	 0.7370	 0.3660
GH	 0.7570	 0.3700
GI	 0.7580	 0.3810





















































































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Chain	Atom inclusion	Q-score
GJ	 0.7680	 0.3820
GK	 0.7440	 0.3410
GL	 0.7460	 0.3600
GM	 0.0000	 0.0040
GN	 0.4400	 0.1860
HA	 0.6100	 0.2520
HB	 0.1250	 0.0330
HC	 0.7540	 0.3780
HD	 0.7530	 0.3540
HE	 0.7610	 0.3900
HF	 0.7560	 0.3810
HG	 0.7380	 0.3680
HH	 0.7580	 0.3820
HI	 0.7640	 0.3980
HJ	 0.7560	 0.3790
HK	 0.7610	 0.3700
HL	 0.7480	 0.3750
HM	 0.0860	 0.0010
HN	 0.6170	 0.2650
IA	 0.6800	 0.2860
IB	 0.2470	 0.1070
IC	 0.7540	 0.3780
ID	 0.7450	 0.3560
IE	 0.7570	 0.3930
IF	 0.7650	 0.3960
IG	 0.7380	 0.3720
IH	 0.7590	 0.3840
II	 0.7650	 0.3930
IJ	 0.7540	 0.3800
IK	 0.7660	 0.3810
IL	 0.7520	 0.3800
IM	 0.5180	 0.2510
IN	 0.7370	 0.3360
JA	 0.7550	 0.3670
JB	 0.7380	 0.3350
JC	 0.7620	 0.3940
JD	 0.7610	 0.3880
JE	 0.7690	 0.3980
JF	 0.7760	 0.4110
JG	 0.7630	 0.3880
JH	 0.7610	 0.3940
JI	 0.7720	 0.4020





















































































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Chain	Atom inclusion	Q-score
JJ	 0.7630	 0.3950
JK	 0.7530	 0.3760
JL	 0.7640	 0.3990
JM	 0.2250	 0.1040
JN	 0.7110	 0.3350
KA	 0.7570	 0.3580
KB	 0.6910	 0.2970
KC	 0.7680	 0.4020
KD	 0.7670	 0.3940
KE	 0.7760	 0.4030
KF	 0.7870	 0.4100
KG	 0.7770	 0.4040
KH	 0.7740	 0.4060
KI	 0.7710	 0.3910
KJ	 0.7760	 0.3980
KK	 0.7900	 0.4020
KL	 0.7830	 0.4120
KM	 0.6410	 0.3100
KN	 0.7710	 0.3780
LA	 0.7530	 0.3740
LB	 0.7300	 0.3370
LC	 0.7680	 0.4130
LD	 0.7750	 0.3990
LE	 0.7630	 0.4010
LF	 0.7590	 0.4020
LG	 0.7620	 0.4080
LH	 0.7760	 0.4050
LI	 0.7560	 0.3930
LJ	 0.7720	 0.4100
LK	 0.7640	 0.4050
LL	 0.7660	 0.4050
LM	 0.7290	 0.3450
LN	 0.7800	 0.3960
MA	 0.7670	 0.3810
MB	 0.7330	 0.3340
MC	 0.7680	 0.4070
MD	 0.7720	 0.4050
ME	 0.7650	 0.4070
MF	 0.7810	 0.4120
MG	 0.7530	 0.3940
MH	 0.7710	 0.4090
MI	 0.7550	 0.3960





















































































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Chain	Atom inclusion	Q-score
MJ	 0.7840	 0.4140
MK	 0.7670	 0.4000
ML	 0.7620	 0.4080
MM	 0.7470	 0.3510
MN	 0.7900	 0.3960
NA	 0.6530	 0.2780
NB	 0.5050	 0.1950
NC	 0.7260	 0.3500
ND	 0.7040	 0.3210
NE	 0.7230	 0.3630
NF	 0.7280	 0.3680
NG	 0.7200	 0.3510
NH	 0.7050	 0.3430
NI	 0.7180	 0.3520
NJ	 0.7210	 0.3470
NK	 0.7210	 0.3500
NL	 0.7120	 0.3510
NM	 0.4200	 0.2120
NN	 0.6890	 0.3130
OA	 0.6240	 0.2260
OB	 0.2530	 0.0810
OC	 0.7140	 0.3160
OD	 0.7100	 0.2830
OE	 0.7340	 0.3470
OF	 0.7420	 0.3430
OG	 0.7300	 0.3310
OH	 0.7250	 0.3340
OI	 0.7250	 0.3360
OJ	 0.7240	 0.3270
OK	 0.7310	 0.3360
OL	 0.7370	 0.3410
OM	 0.4040	 0.1940
ON	 0.6890	 0.2870
PA	 0.4570	 0.1270
PB	 0.0730	 0.0150
PC	 0.6880	 0.2650
PD	 0.6350	 0.2110
PE	 0.7190	 0.3070
PF	 0.7030	 0.2940
PG	 0.6980	 0.2950
PH	 0.7030	 0.2940
PI	 0.7150	 0.3160





















































































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Chain	Atom inclusion	Q-score
PJ	 0.6900	 0.2960
PK	 0.7260	 0.3090
PL	 0.7210	 0.3080
PM	 0.2980	 0.1290
PN	 0.6560	 0.2510
QA	 0.2050	 0.0200
QB	 0.5990	 0.1940
QC	 0.6820	 0.2340
QD	 0.7050	 0.2810
QE	 0.7300	 0.2930
QF	 0.7140	 0.2910
QG	 0.7000	 0.2760
QH	 0.7150	 0.3030
QI	 0.7250	 0.3000
QJ	 0.7160	 0.3010
QK	 0.7040	 0.2820
QL	 0.6440	 0.2260
QM	 0.2160	 0.0710
QN	 0.0000	 0.0310
RA	 0.0870	 0.0150
RB	 0.5350	 0.1860
RC	 0.6590	 0.2270
RD	 0.6940	 0.2710
RE	 0.7010	 0.2870
RF	 0.6990	 0.2800
RG	 0.6830	 0.2670
RH	 0.7000	 0.2800
RI	 0.7060	 0.2980
RJ	 0.6970	 0.2860
RK	 0.6910	 0.2710
RL	 0.6290	 0.2190
RM	 0.2500	 0.0860
RN	 0.0000	 0.0250
SA	 0.0180	 0.0210
SB	 0.4380	 0.1350
SC	 0.6670	 0.2360
SD	 0.7140	 0.2840
SE	 0.7160	 0.2920
SF	 0.7160	 0.2890
SG	 0.7120	 0.2790
SH	 0.7140	 0.2950
SI	 0.7180	 0.3020







































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Chain	Atom inclusion	Q-score
SJ	 0.7170	 0.3000
SK	 0.7190	 0.2910
SL	 0.6630	 0.2300
SM	 0.3750	 0.1260
SN	 0.0000	 0.0100
TA	 0.0010	 0.0270
TB	 0.3000	 0.0530
TC	 0.6160	 0.2070
TD	 0.6780	 0.2620
TE	 0.6860	 0.2580
TF	 0.6920	 0.2750
TG	 0.6800	 0.2610
TH	 0.6700	 0.2540
TI	 0.6810	 0.2690
TJ	 0.6900	 0.2710
TK	 0.6830	 0.2740
TL	 0.6420	 0.2200
TM	 0.4850	 0.1300
TN	 0.0480	 0.0030
UA	 0.0170	 0.0260
UB	 0.3530	 0.1120
UC	 0.6310	 0.2310
UD	 0.6630	 0.2510
UE	 0.7050	 0.2890
UF	 0.6710	 0.2670
UG	 0.6830	 0.2680
UH	 0.6490	 0.2400
UI	 0.6810	 0.2710
UJ	 0.6640	 0.2560
UK	 0.6700	 0.2720
UL	 0.6420	 0.2410
UM	 0.5990	 0.2090
UN	 0.1950	 0.0210
VA	 0.6960	 0.2830
VB	 0.4690	 0.1930
VC	 0.7380	 0.3310
VD	 0.7350	 0.3130
VE	 0.7390	 0.3230
VF	 0.7300	 0.3250
VG	 0.7330	 0.3190
VH	 0.7070	 0.2980
VI	 0.7430	 0.3270

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Chain	Atom inclusion	Q-score
VJ	 0.7280	 0.3210
VK	 0.6950	 0.2880
VL	 0.7130	 0.2990
VM	 0.0210	 0.0100
VN	 0.4530	 0.1240
WA	 0.7190	 0.3010
WB	 0.5110	 0.2200
WC	 0.7390	 0.3350
WD	 0.7250	 0.3210
WE	 0.7280	 0.3310
WF	 0.7300	 0.3360
WG	 0.7220	 0.3170
WH	 0.7010	 0.3050
WI	 0.7480	 0.3460
WJ	 0.7320	 0.3300
WK	 0.7150	 0.3010
WL	 0.7130	 0.3140
WM	 0.2330	 0.0860
WN	 0.6270	 0.2310