



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 23, 2024 – 02:07 AM EDT

PDB ID : 4YM7  
Title : RNA polymerase I structure with an alternative dimer hinge  
Authors : Kostrewa, D.; Kuhn, C.-D.; Engel, C.; Cramer, P.  
Deposited on : 2015-03-06  
Resolution : 5.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

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>.

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

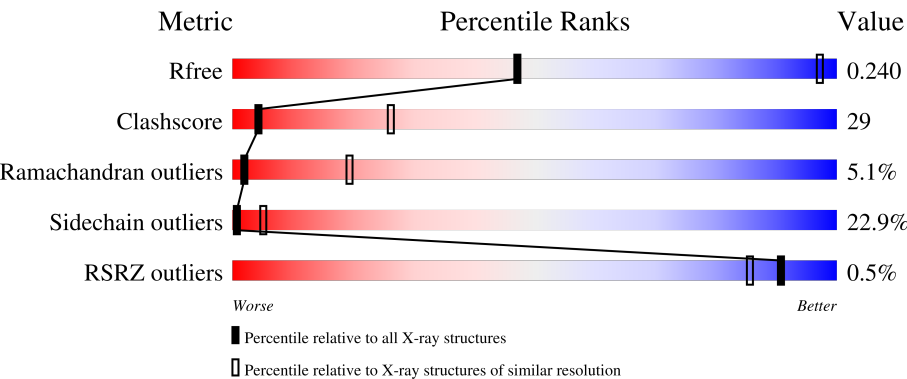
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.37.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:  
*X-RAY DIFFRACTION*

The reported resolution of this entry is 5.50 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.




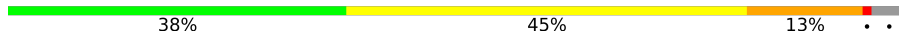
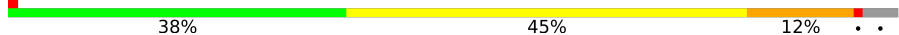



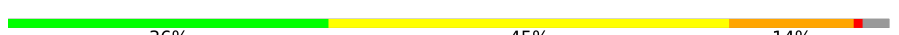
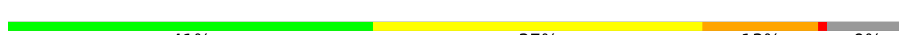



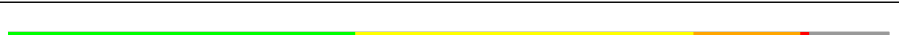

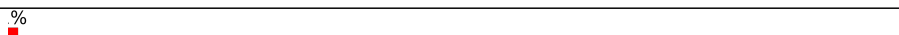
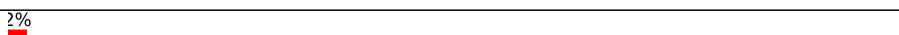
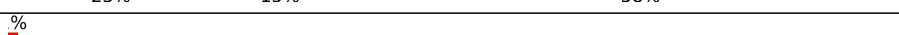

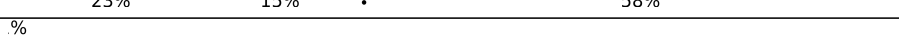







Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R <sub>free</sub>	130704	1019 (7.12-3.82)
Clashscore	141614	1010 (7.10-3.90)
Ramachandran outliers	138981	1014 (7.12-3.82)
Sidechain outliers	138945	1191 (7.20-3.80)
RSRZ outliers	127900	1023 (7.08-3.76)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	1664	<div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>36%41%11%•11%</div></div>
1	BA	1664	<div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>35%41%11%•12%</div></div>
1	CA	1664	<div><div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>34%42%12%•11%</div></div>
1	DA	1664	<div><div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>34%42%12%•11%</div></div>
1	EA	1664	<div><div></div><div><div></div><div></div><div></div><div></div><div></div></div><div>34%43%12%•11%</div></div>

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Mol	Chain	Length	Quality of chain
1	FA	1664	
2	AB	1203	
2	BB	1203	
2	CB	1203	
2	DB	1203	
2	EB	1203	
2	FB	1203	
3	AC	335	
3	BC	335	
3	CC	335	
3	DC	335	
3	EC	335	
3	FC	335	
4	AD	137	
4	BD	137	
4	CD	137	
4	DD	137	
4	ED	137	
4	FD	137	
5	AE	215	
5	BE	215	
5	CE	215	
5	DE	215	
5	EE	215	
5	FE	215	

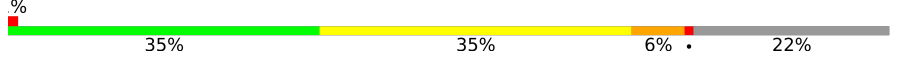
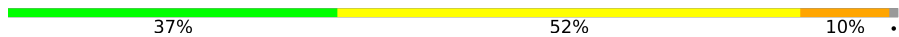



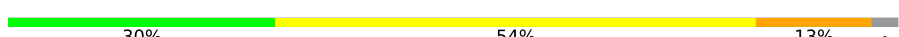

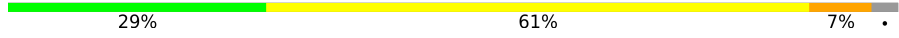
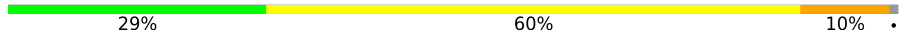
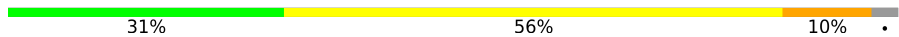
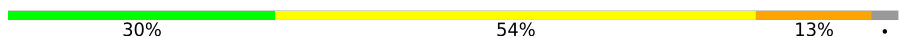


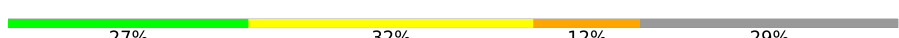
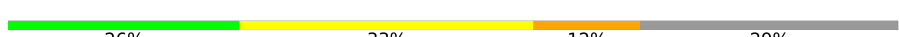
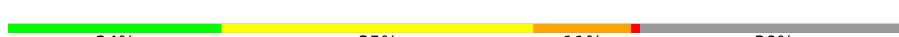









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Mol	Chain	Length	Quality of chain
6	AF	155	
6	BF	155	
6	CF	155	
6	DF	155	
6	EF	155	
6	FF	155	
7	AG	326	
7	AO	326	
7	BG	326	
7	BO	326	
7	CG	326	
7	CO	326	
7	DG	326	
7	DO	326	
7	EG	326	
7	EO	326	
7	FG	326	
7	FO	326	
8	AH	146	
8	BH	146	
8	CH	146	
8	DH	146	
8	EH	146	
8	FH	146	
9	AI	125	






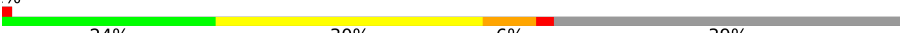




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Mol	Chain	Length	Quality of chain
9	BI	125	
9	CI	125	
9	DI	125	
9	EI	125	
9	FI	125	
10	AJ	70	
10	BJ	70	
10	CJ	70	
10	DJ	70	
10	EJ	70	
10	FJ	70	
11	AK	142	
11	BK	142	
11	CK	142	
11	DK	142	
11	EK	142	
11	FK	142	
12	AL	70	
12	BL	70	
12	CL	70	
12	DL	70	
12	EL	70	
12	FL	70	
13	AM	415	
13	BM	415	

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Mol	Chain	Length	Quality of chain
13	CM	415	 11% 12% . . 74%
13	DM	415	 10% 13% . 74%
13	EM	415	 9% 13% . 73%
13	FM	415	 9% 12% . . 73%
14	AN	233	 % 23% 28% 8% . 39%
14	BN	233	 % 24% 30% 6% . 39%
14	CN	233	 24% 27% 9% . 39%
14	DN	233	 24% 29% 8% . 38%
14	EN	233	 23% 30% 7% . 38%
14	FN	233	 21% 32% 8% . 38%

## 2 Entry composition

There are 15 unique types of molecules in this entry. The entry contains 204233 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 DNA-directed RNA polymerase I subunit RPA190.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1484	Total	C	N	O	S	0	0	0
			11703	7385	2036	2220	62			
1	BA	1462	Total	C	N	O	S	0	0	0
			11540	7291	2003	2184	62			
1	CA	1483	Total	C	N	O	S	0	0	0
			11695	7381	2035	2217	62			
1	DA	1483	Total	C	N	O	S	0	0	0
			11697	7381	2034	2220	62			
1	EA	1484	Total	C	N	O	S	0	0	0
			11706	7390	2036	2218	62			
1	FA	1484	Total	C	N	O	S	0	0	0
			11709	7392	2036	2219	62			

- Molecule 2 is a protein called DNA-directed RNA polymerase I subunit RPA135.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	1154	Total	C	N	O	S	0	0	0
			9187	5822	1606	1708	51			
2	BB	1153	Total	C	N	O	S	0	0	0
			9175	5812	1603	1709	51			
2	CB	1170	Total	C	N	O	S	0	0	0
			9304	5892	1629	1732	51			
2	DB	1165	Total	C	N	O	S	0	0	0
			9269	5871	1622	1725	51			
2	EB	1164	Total	C	N	O	S	0	0	0
			9265	5871	1619	1724	51			
2	FB	1165	Total	C	N	O	S	0	0	0
			9270	5872	1622	1725	51			

- Molecule 3 is a protein called DNA-directed RNA polymerases I and III subunit RPAC1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	BC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	CC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	DC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	EC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			
3	FC	304	Total	C	N	O	S	0	0	0
			2413	1534	414	457	8			

- Molecule 4 is a protein called DNA-directed RNA polymerase I subunit RPA14.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	AD	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	BD	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	CD	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	DD	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	ED	58	Total	C	N	O	0	0	0
			459	289	78	92			
4	FD	58	Total	C	N	O	0	0	0
			459	289	78	92			

- Molecule 5 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	BE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	CE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	DE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	EE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			
5	FE	215	Total	C	N	O	S	0	0	0
			1760	1116	310	322	12			



- Molecule 6 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	98	Total	C	N	O	S	0	0	0
			807	512	142	150	3			
6	BF	98	Total	C	N	O	S	0	0	0
			807	512	142	150	3			
6	CF	99	Total	C	N	O	S	0	0	0
			816	517	143	153	3			
6	DF	99	Total	C	N	O	S	0	0	0
			816	517	143	153	3			
6	EF	99	Total	C	N	O	S	0	0	0
			816	517	143	153	3			
6	FF	99	Total	C	N	O	S	0	0	0
			816	517	143	153	3			

- Molecule 7 is a protein called DNA-directed RNA polymerase I subunit RPA43.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	202	Total	C	N	O	S	0	0	0
			1599	1025	276	293	5			
7	AO	52	Total	C	N	O		0	0	0
			413	253	64	96				
7	BG	195	Total	C	N	O	S	0	0	0
			1539	992	264	278	5			
7	BO	51	Total	C	N	O		0	0	0
			404	248	63	93				
7	CG	202	Total	C	N	O	S	0	0	0
			1599	1025	276	293	5			
7	CO	50	Total	C	N	O		0	0	0
			398	245	62	91				
7	DG	202	Total	C	N	O	S	0	0	0
			1599	1025	276	293	5			
7	DO	52	Total	C	N	O		0	0	0
			413	253	64	96				
7	EG	202	Total	C	N	O	S	0	0	0
			1599	1025	276	293	5			
7	EO	52	Total	C	N	O		0	0	0
			413	253	64	96				
7	FG	202	Total	C	N	O	S	0	0	0
			1599	1025	276	293	5			
7	FO	52	Total	C	N	O		0	0	0
			413	253	64	96				

- Molecule 8 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	132	Total	C	N	O	S	0	0	0
			1063	670	180	209	4			
8	BH	131	Total	C	N	O	S	0	0	0
			1052	664	176	208	4			
8	CH	131	Total	C	N	O	S	0	0	0
			1052	664	176	208	4			
8	DH	134	Total	C	N	O	S	0	0	0
			1075	677	182	212	4			
8	EH	134	Total	C	N	O	S	0	0	0
			1075	677	182	212	4			
8	FH	134	Total	C	N	O	S	0	0	0
			1075	677	182	212	4			

- Molecule 9 is a protein called DNA-directed RNA polymerase I subunit RPA12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	124	Total	C	N	O	S	0	0	0
			943	584	160	190	9			
9	BI	97	Total	C	N	O	S	0	0	0
			716	439	120	148	9			
9	CI	124	Total	C	N	O	S	0	0	0
			943	584	160	190	9			
9	DI	124	Total	C	N	O	S	0	0	0
			943	584	160	190	9			
9	EI	117	Total	C	N	O	S	0	0	0
			898	556	152	181	9			
9	FI	124	Total	C	N	O	S	0	0	0
			943	584	160	190	9			

- Molecule 10 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	68	Total	C	N	O	S	0	0	0
			558	356	97	99	6			
10	BJ	69	Total	C	N	O	S	0	0	0
			569	362	101	100	6			
10	CJ	68	Total	C	N	O	S	0	0	0
			558	356	97	99	6			
10	DJ	69	Total	C	N	O	S	0	0	0
			569	362	101	100	6			
10	EJ	68	Total	C	N	O	S	0	0	0
			558	356	97	99	6			
10	FJ	68	Total	C	N	O	S	0	0	0
			558	356	97	99	6			

- Molecule 11 is a protein called DNA-directed RNA polymerases I and III subunit RPAC2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	101	Total	C	N	O	S	0	0	0
			793	496	130	162	5			
11	BK	100	Total	C	N	O	S	0	0	0
			786	491	129	161	5			
11	CK	101	Total	C	N	O	S	0	0	0
			793	496	130	162	5			
11	DK	101	Total	C	N	O	S	0	0	0
			793	496	130	162	5			
11	EK	100	Total	C	N	O	S	0	0	0
			786	491	129	161	5			
11	FK	100	Total	C	N	O	S	0	0	0
			786	491	129	161	5			

- Molecule 12 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	BL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	CL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	DL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	EL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			
12	FL	44	Total	C	N	O	S	0	0	0
			352	217	70	61	4			

- Molecule 13 is a protein called DNA-directed RNA polymerase I subunit RPA49.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	AM	109	Total	C	N	O	0	0	0
			863	548	143	172			
13	BM	109	Total	C	N	O	0	0	0
			863	548	143	172			
13	CM	109	Total	C	N	O	0	0	0
			863	548	143	172			
13	DM	109	Total	C	N	O	0	0	0
			863	548	143	172			
13	EM	110	Total	C	N	O	0	0	0
			869	551	144	174			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
13	FM	110	Total	C	N	O	0	0	0
			869	551	144	174			

- Molecule 14 is a protein called DNA-directed RNA polymerase I subunit RPA34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	142	Total	C	N	O	S	0	0	0
			1127	719	183	221	4			
14	BN	143	Total	C	N	O	S	0	0	0
			1130	719	184	223	4			
14	CN	143	Total	C	N	O	S	0	0	0
			1137	728	184	221	4			
14	DN	145	Total	C	N	O	S	0	0	0
			1146	729	186	227	4			
14	EN	144	Total	C	N	O	S	0	0	0
			1140	726	186	224	4			
14	FN	145	Total	C	N	O	S	0	0	0
			1146	729	187	226	4			

- Molecule 15 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
15	AA	2	Total	Zn	0	0
			2	2		
15	AB	1	Total	Zn	0	0
			1	1		
15	AI	2	Total	Zn	0	0
			2	2		
15	AJ	1	Total	Zn	0	0
			1	1		
15	AL	1	Total	Zn	0	0
			1	1		
15	BA	2	Total	Zn	0	0
			2	2		
15	BB	1	Total	Zn	0	0
			1	1		
15	BI	2	Total	Zn	0	0
			2	2		
15	BJ	1	Total	Zn	0	0
			1	1		
15	BL	1	Total	Zn	0	0
			1	1		

*Continued on next page...*

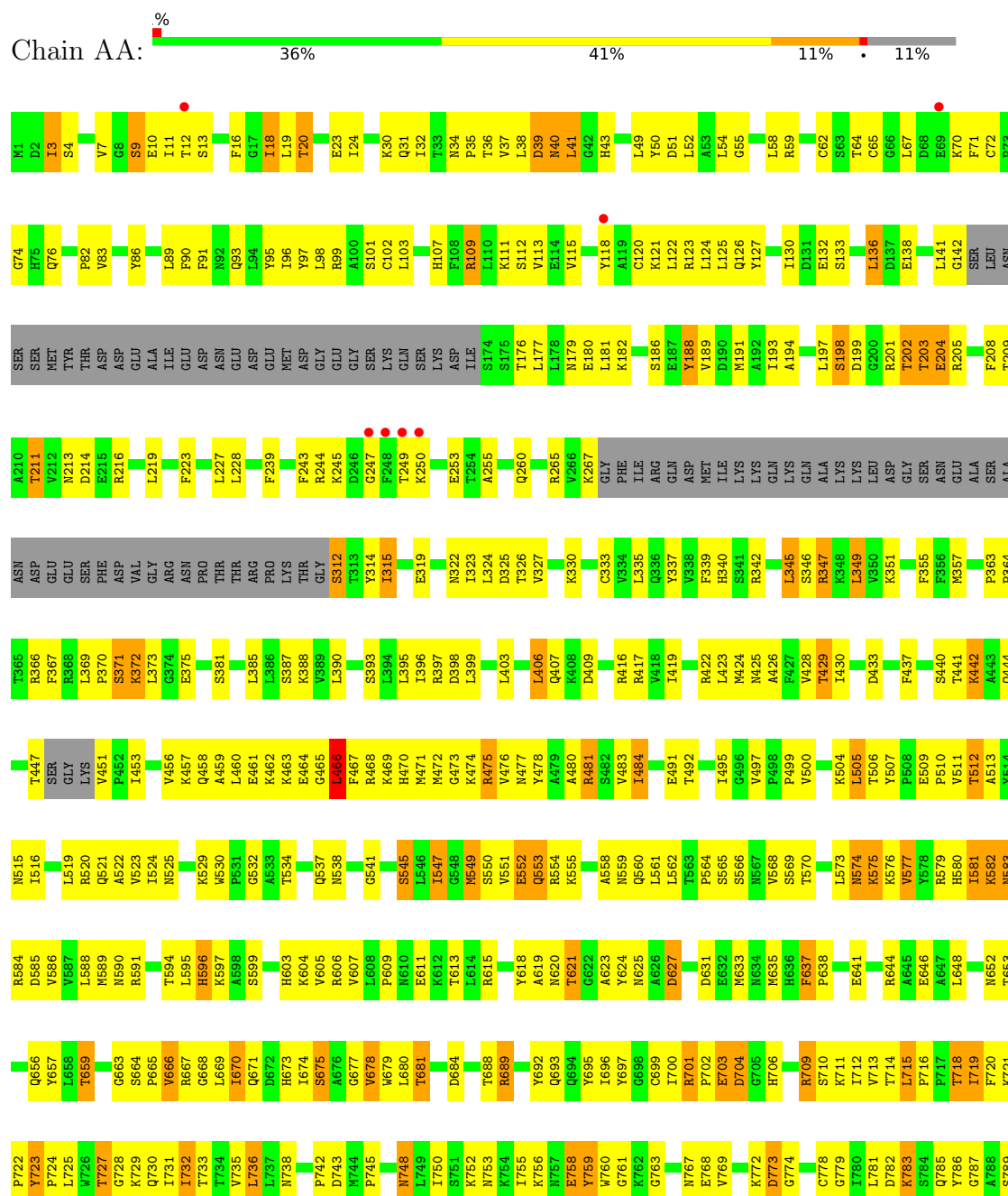
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
15	CA	2	Total 2	Zn 2	0	0
15	CB	1	Total 1	Zn 1	0	0
15	CI	2	Total 2	Zn 2	0	0
15	CJ	1	Total 1	Zn 1	0	0
15	CL	1	Total 1	Zn 1	0	0
15	DA	2	Total 2	Zn 2	0	0
15	DB	1	Total 1	Zn 1	0	0
15	DI	2	Total 2	Zn 2	0	0
15	DJ	1	Total 1	Zn 1	0	0
15	DL	1	Total 1	Zn 1	0	0
15	EA	2	Total 2	Zn 2	0	0
15	EB	1	Total 1	Zn 1	0	0
15	EI	2	Total 2	Zn 2	0	0
15	EJ	1	Total 1	Zn 1	0	0
15	EL	1	Total 1	Zn 1	0	0
15	FA	2	Total 2	Zn 2	0	0
15	FB	1	Total 1	Zn 1	0	0
15	FI	2	Total 2	Zn 2	0	0
15	FJ	1	Total 1	Zn 1	0	0
15	FL	1	Total 1	Zn 1	0	0

### 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 electron 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 dot above a residue indicates a poor fit to the electron density ( $RSRZ > 2$ ). 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: DNA-directed RNA polymerase I subunit RPA190



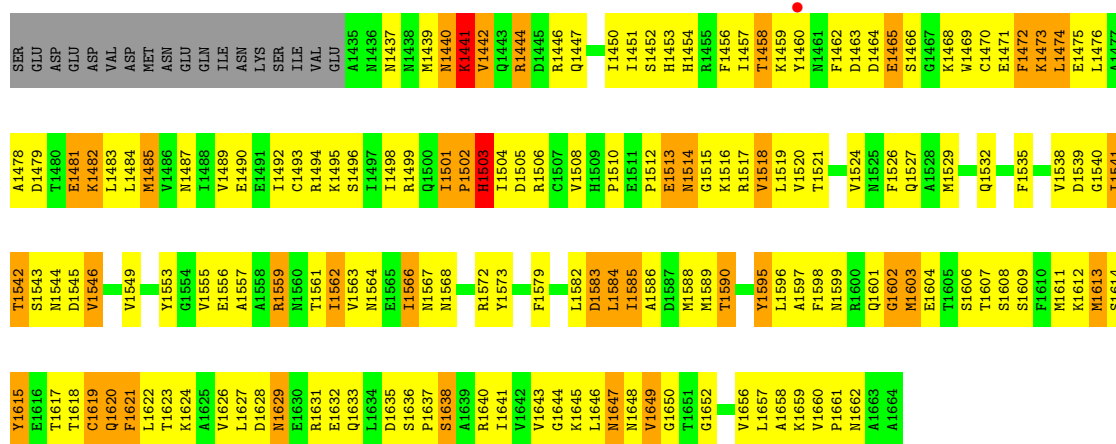




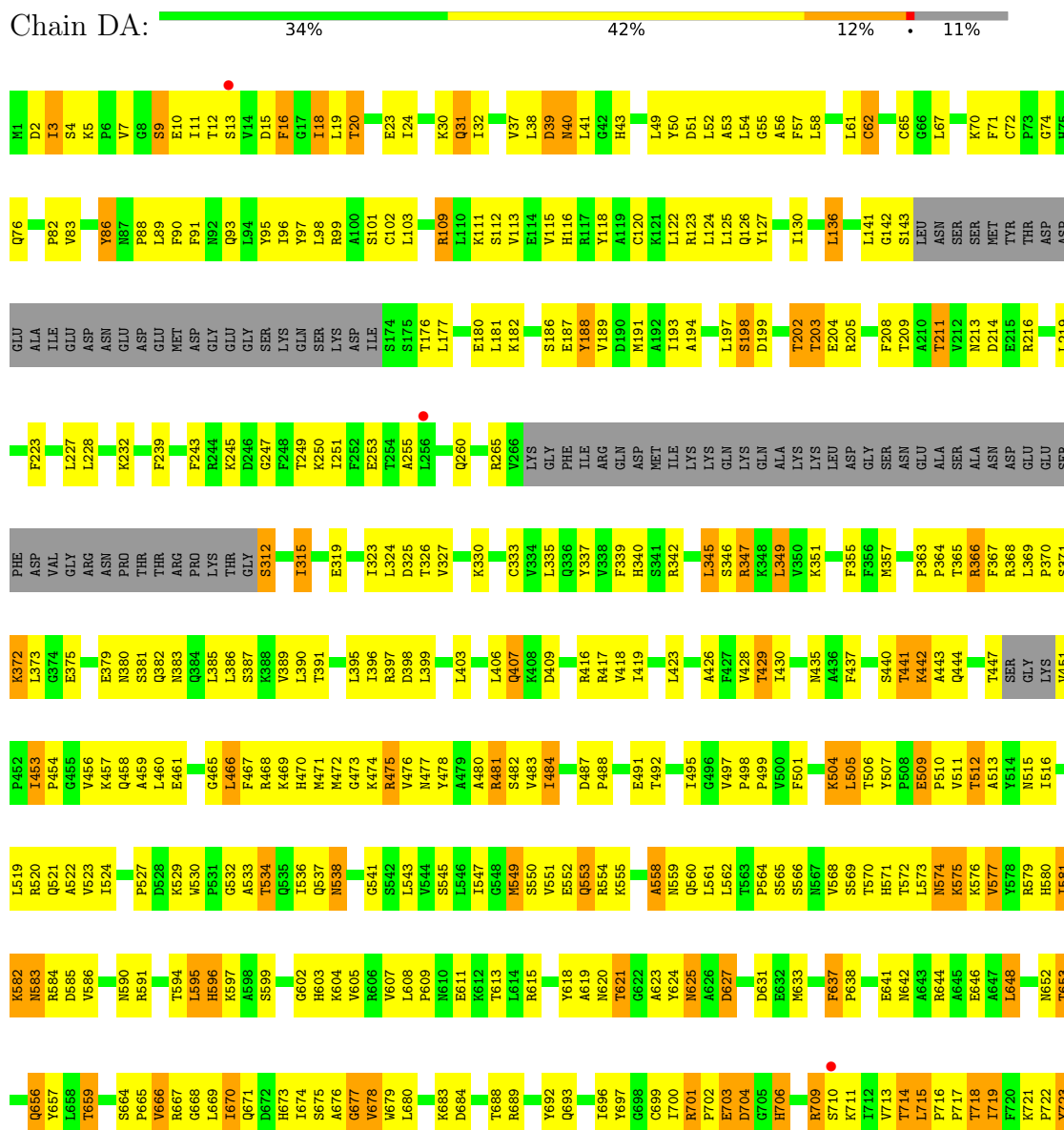


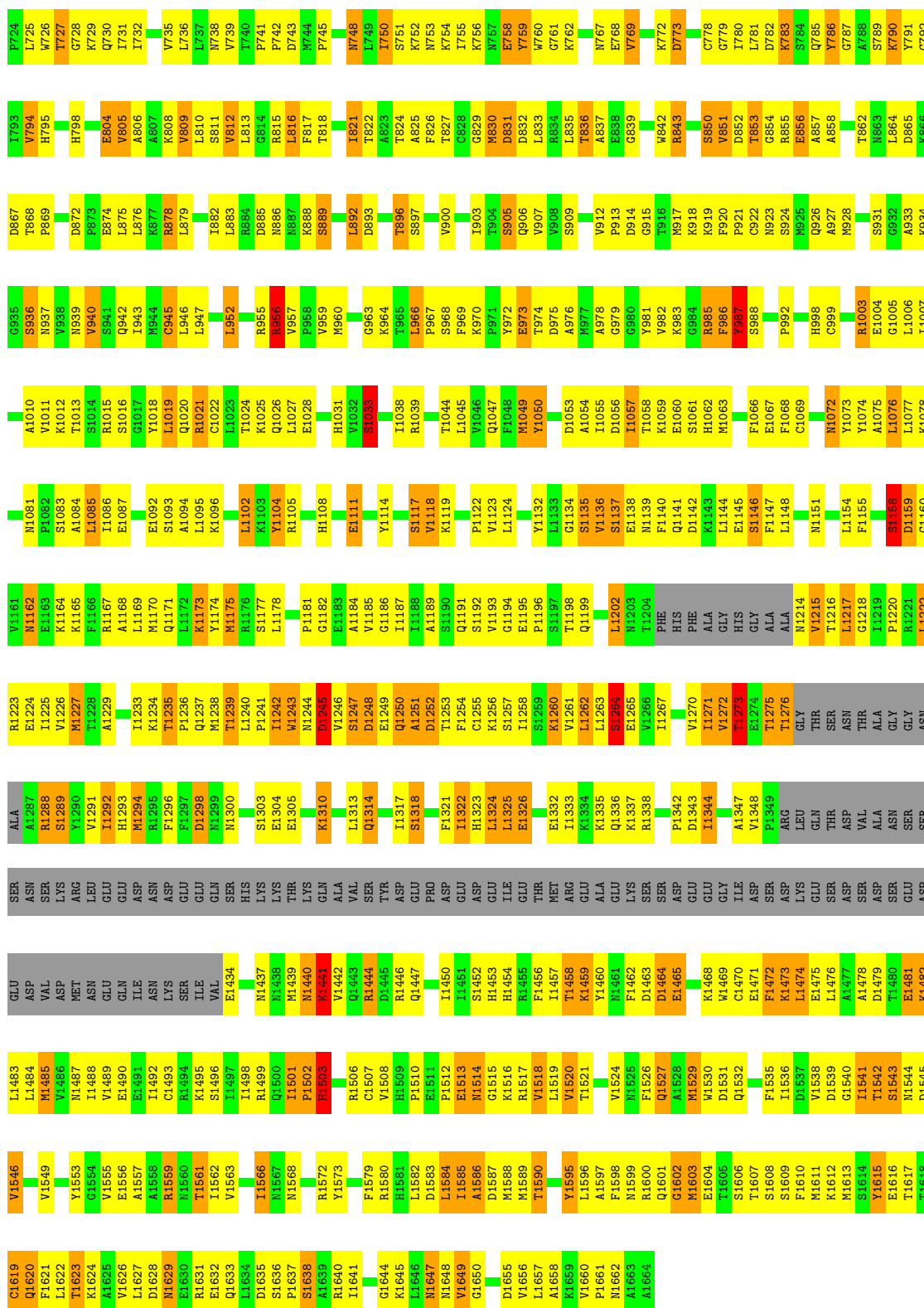


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SER	R1288	M1226	K1163	M1081	V1011	N937	T864	G787	K721	A647	H580	I516	Q444	R366
ASN	S1289	M1227	K1164	P1082	K1012	N938	T865	A788	P722	L648	I581	L519	T447	L369
SER	V1290	A1228	K1165	S1083	T1013	V938	D866	S789	P723	N652	K582	R520	SER	P370
LYS	I1292	A1229	F1166	A1084	S1014	V940	D867	K790	P724	T653	GLY	Q521	GLY	S371
ARG	H1293	I1233	R1167	L1085	R1015	S941	D872	G792	L725	L657	R584	A522	LYS	K372
LEU	M1294	K1234	A1168	L1086	S1016	S942	D873	G793	T726	Y657	D585	V451	GLY	L373
GLU	R1295	T1235	L1169	E1087	G1017	I943	E874	V794	K728	T659	V586	P452	LYS	G374
GLU	F1296	P1236	Q1171	E1092	Y1018	H944	E875	H795	P729	L658	D588	I524	GLY	L375
ASP	F1297	Q1237	L1172	S1093	Q1020	C945	L876	H796	Q730	T659	R589	N525	GLY	E375
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GLU	N1300	L1240	M1175	K1096	T1023	L952	R878	P803	T733	V666	R594	E528	GLY	K360
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THR	K1310	S1248	A1184	H1108	H1031	P959	T884	R809	V739	H673	G602	Q535	GLY	K388
GLN	V1185	E1249	V1185	E1111	S1033	V957	T885	L810	D743	S675	H603	I536	GLY	V389
ALA	Q1344	Q1250	G1186	E1111	S1033	K964	T886	V812	K744	A676	K604	Q537	GLY	L390
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TYR	S1318	T1252	I1188	S1117	R1039	L966	T888	G814	N748	G678	R606	D540	GLY	S393
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GLU	F1322	C1255	V1193	P1122	D1042	K970	S897	T818	T750	T681	P609	S542	GLY	L397
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GLU	L1324	P1258	E1195	V1123	L1046	E972	V900	Y820	N753	D684	E611	S545	GLY	L399
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THR	K1331	L1263	T1201	G1134	A1054	G979	V907	M830	E758	Q693	H617	V551	GLY	K408
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SER	R1338	V1270	ALA	Q1141	S1061	P986	T916	A837	L770	P702	N625	Q560	GLY	L423
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ASP	D1343	T1272	HIS	K1143	M1063	S988	K918	G839	K772	D704	D627	L562	GLY	A426
GLU	I1344	E1274	ALA	L1144	F1066	P992	K919	W842	D773	G705	D631	T563	GLY	A426
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LYS	LEU	ASN	L1217	N1151	N1072	A1001	R925	D852	T778	I712	H636	S569	GLY	Y507
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ASP	GLY	GLY	R1221	S1159	L1076	E1004	H928	E856	D782	P716	E641	K575	GLY	P510
SER	VAL	GLY	L1222	T1159	L1077	I1007	S931	E857	K783	F717	E641	A513	GLY	V511
ASP	ALA	ASN	R1223	G1160	K1078	I1007	G932	A858	S784	T718	R644	V577	GLY	S440

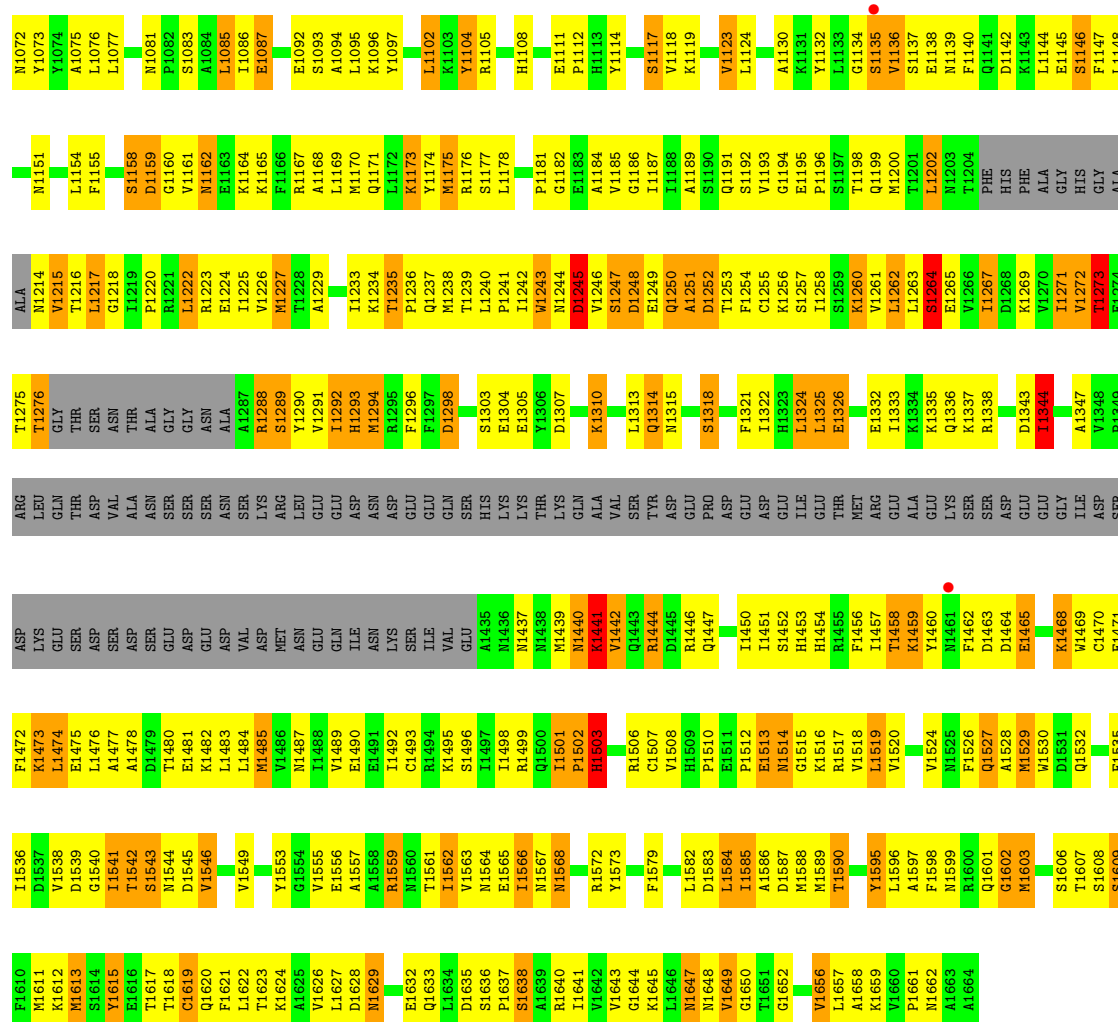


### • Molecule 1: DNA-directed RNA polymerase I subunit RPA190



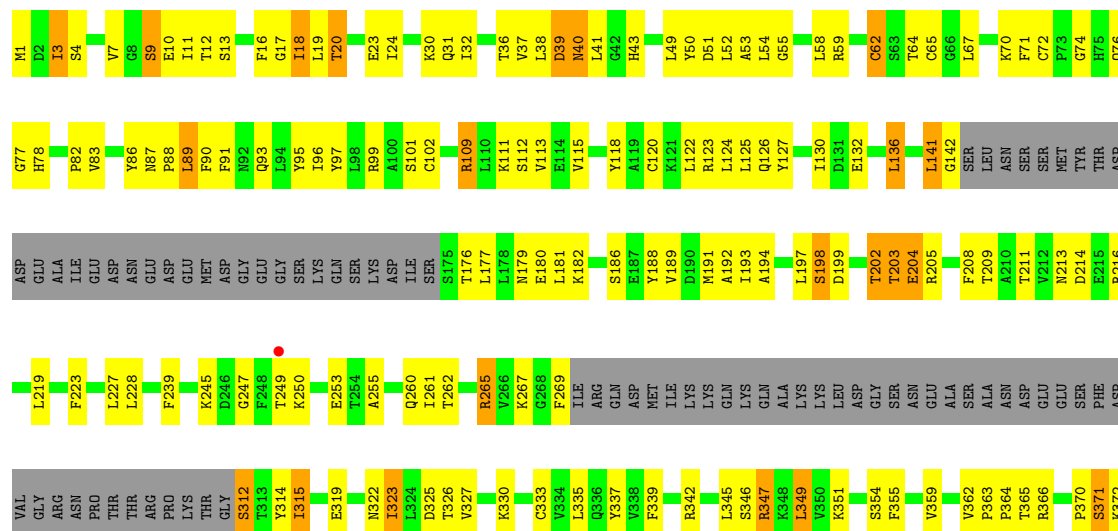


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E1004	K935		G787	T714	A645	R579	T512			ASN	N213	TYR	G77	
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I1007	N937	L864	K790	P717	L648	K582	N516	LYS	S371	GLU	R216	ASP	S9	
D1008	V938	D865	K793	T718	R649	N583			K372	GLU	L219	GLU	P82	
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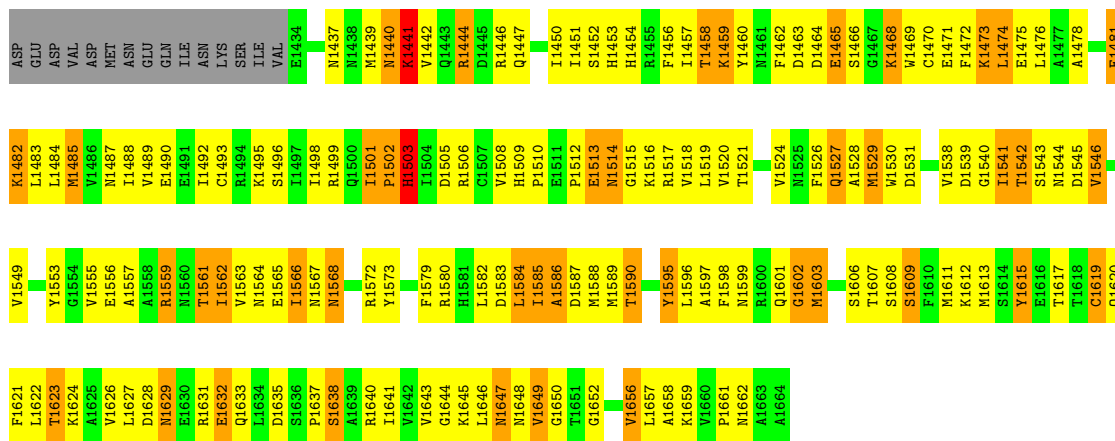


### • Molecule 1: DNA-directed RNA polymerase I subunit RPA190

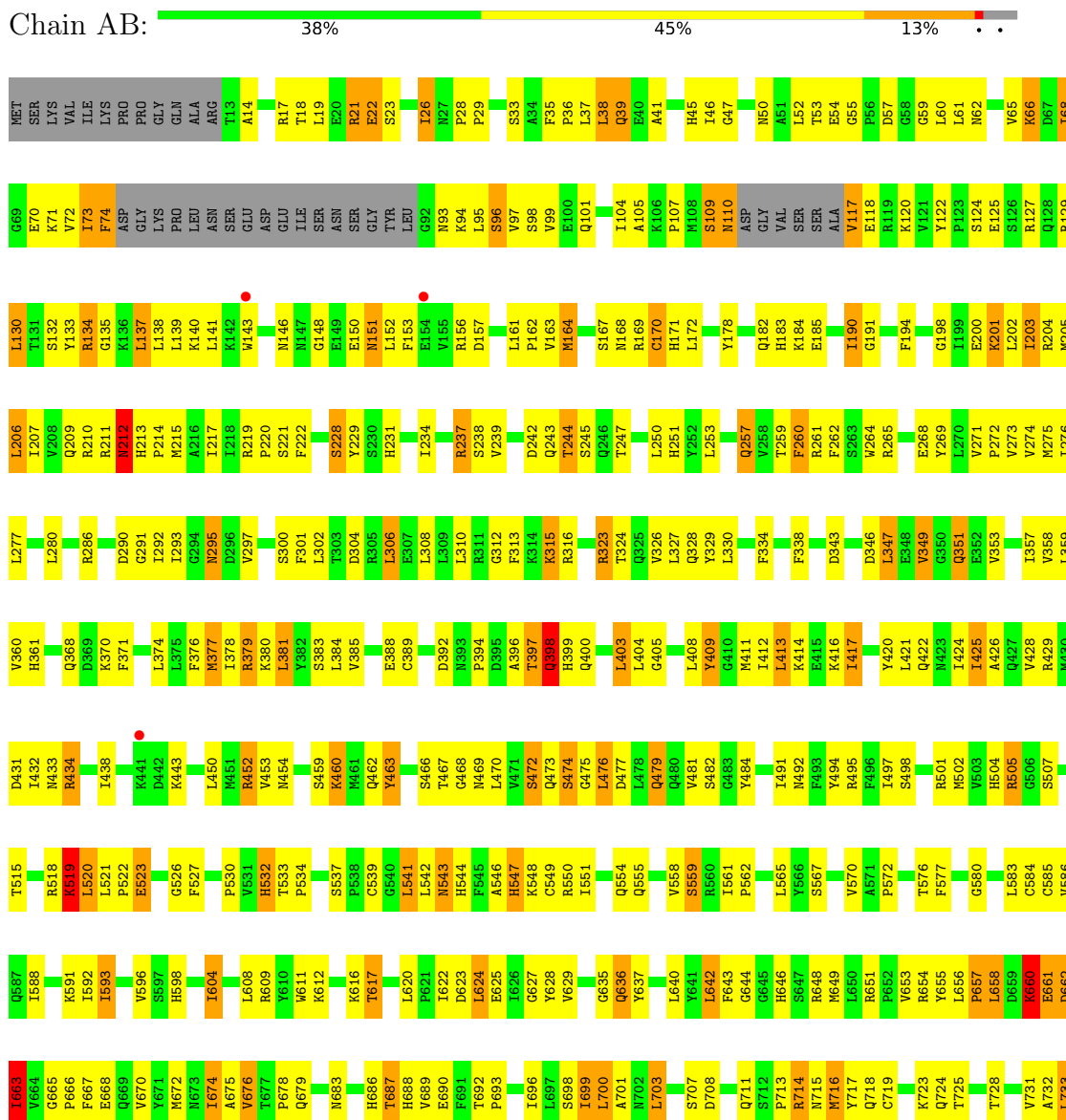
Chain FA: 34% 42% 12% 11%



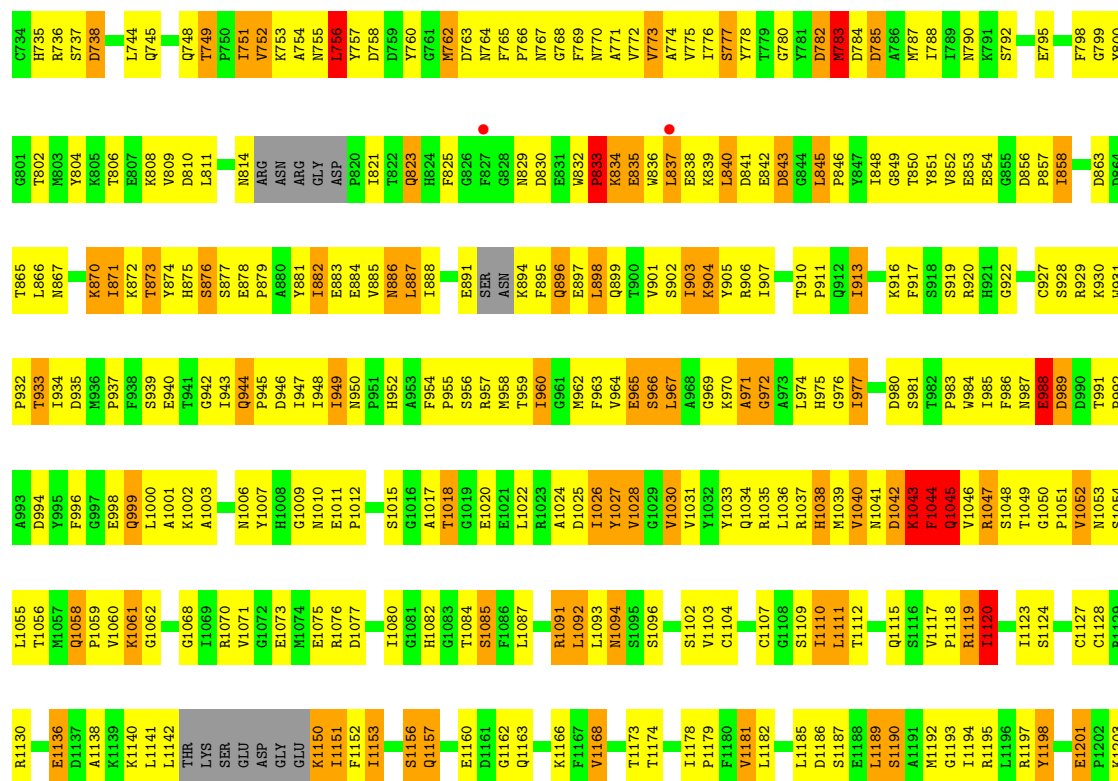
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ASN	S1289	M1227	K1165	A1084	T1009	N937	T862	Y786	P718	L650	K582	I516	VAL	E375
SER	Y1290	T1228	K1165	L1085	A1010	N938	N863	Y786	T719	A651	R581		P452	
LYS	V1291	A1229	F1166	E1086	V1011	N939	L864	G787	F720	N652	N583	L519	I453	E379
ARG	H1292		R1167	E1087	K1012	N940	D865	A788	K721	T653	R584	R520	P454	N380
LEU	H1293		A1168		T1013	S941	K866	S789	P722	D654	D585	Q521	G455	S381
GLU	M1294		L1169	E1092	S1014	Q942	D867	K790	T723	S685	V586	A522	V456	Q382
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ASP	D1298		K1173	K1096	Y1018	L946	L875		G728	T659	T594	G527	E461	
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GLU			M1175	S1098	Q1020		K877			G663	L596	R529	K463	
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HIS	E1304		L1178	K1103	L1023	R955		A806	I732	V666	A598	G532	G465	L394
LYS	E1305			Y1104	T1024	R956	I882	A807		R667	G532	P531	L466	L395
LYS				R1105	K1025	V957		K808	L736	G643		A533	G467	I396
THR	K1340			H1109	Q1026	P958	D885	R809	L737	L669	G602	T534	R468	R397
LYS				E1183	E1027	P958	N886	L810	L738	L670	H603	Q537	K469	D398
GLN	V1185			Y1104	L1027	M960	N887	S811		G671	K604	N538	M471	L399
ALA	Q1314			R1105	E1028		K888	V812	P741	D672	V605		M472	
VAL				E1111			S889	L813	D742	L674	R606	G541	G473	
SER	S1318			Y1114	H1031	G963		G814	D743	S675	L608		K474	L406
TYR					V1032	T965	L882	R815	P745	A676	P609	S545	R475	L407
ASP	F1321			S1117	S1032	L966	D893	L816		G677	N610	L546	K408	
GLU	L1322			Y1118	I1038	P967		F817		D678	E611	I547	K478	D409
PRO	H1323			K1119	R1039	S968	T896	T818	N748	L749	V605	G548	Y478	
ASP	L1324					P969	N819	R897	L749	G612	R606	M549	A479	R416
GLU	L1325			V1123	T1044	K970	S898	Y890	I750	L680	T613	S550	A480	R417
ASP	E1326			L1124	L1045		K899	L821	S751	T681	L614	V551	R481	R418
GLU						E973	V900	T822	K752		R615	Q552	S482	I419
ILE	K1329			A1130	M1049	T974	I903	A825	N753	D684	Y618	Q553	V483	
THR	L1330			K1131	Q1199	A976		F826	I755	T688	A619	R554	I484	R422
MET	K1331			Y1132	Q1199		V907		K756	R689	N620	K555	P488	L423
ARG	I1333			L1133	D1053	N977			T757		T621	A556		M424
GLU	K1334			G1134	A1054	A978	V908	G829		Y692	G622	L587	E491	N425
ALA	K1335			S1135	I1055	G979	S909	D831	T759	Q693	A623	A588	T492	A426
GLU	Q1336			V1136	D1056	Y981	V912	D832	W760		Y624	N559		F427
LYS	K1337			S1137	T1057	V982	P913	L833	G761	I696	N625	Q560	V428	V428
SER	D1268			E1138	T1058	K983	D914	L834	K762	Y697	A626	L561	I495	T429
SER	K1269			N1139	K1059	G984	G915	L835	G763	G698	D627	L562	G496	I430
SER	V1270			F1140	E1060	G984	G915	L835	G763	G698	F628	T663	V497	Q431
ASP	I1271			Q1141	S1061	R985	T916	T836		C899		P564	P498	
GLU	V1272			H1062	H1062	F986	N917	A837	N767	I700	D631	P564	P499	V434
GLU	T1273			K1143	M1063	Y987	K918	E838	E768	R701	E632	S565	V500	N435
GLY	E1274			L1144		S988	K919	G839	V769	P702	S566	S566	F501	A436
ILE	T1275			E1145	F1066	P992	F920	E703	L770	D704	M633	N567		I438
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SER				F1147	F1068	Q993	C922	R843	K772	H706	P638	T570	L505	I438
ASP	THR			L1149		H998	S924	R843	D773			T570	T506	D439
LYS	SER			N1072	N1072		S850	S850			E641	H571	T507	S440
GLU	ASN			Y1073	Y1073		R851	R851	L776			T572	Y507	T441
SER	THR			Y1074	Y1074		D852	D852	L777		N642	L573	P508	K442
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SER	VAL			L1076	L1076	R1003	G854	G854	G779		R644	K575	P510	Q444
ASP	GLY			L1077	L1077	E1004	R855	R855	I780		A645	K576	V511	
ASP	ASN			R1222	R1222	A933	L781	L781	T714		E646	V577	T512	T447
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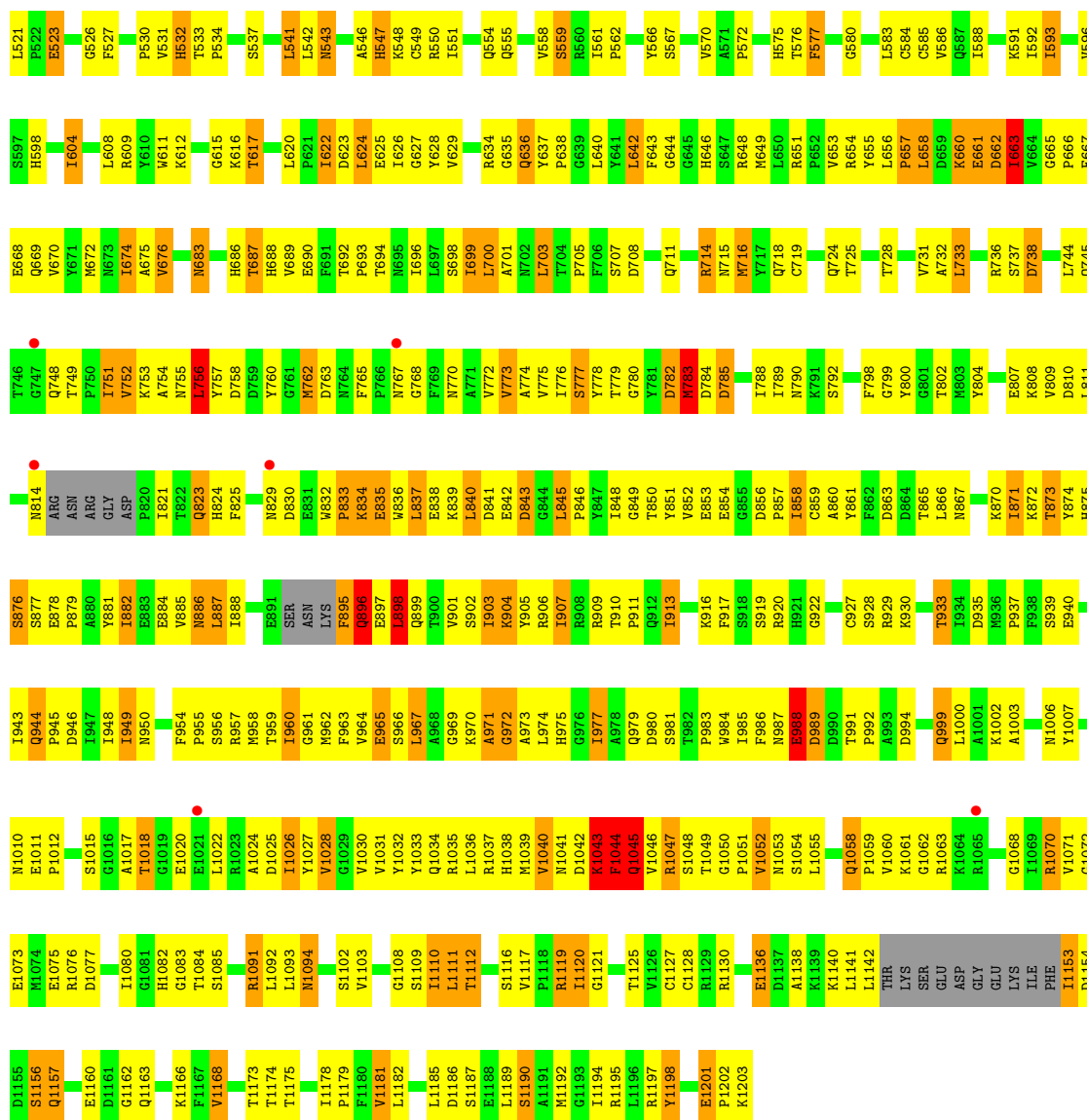


• Molecule 2: DNA-directed RNA polymerase I subunit RPA135

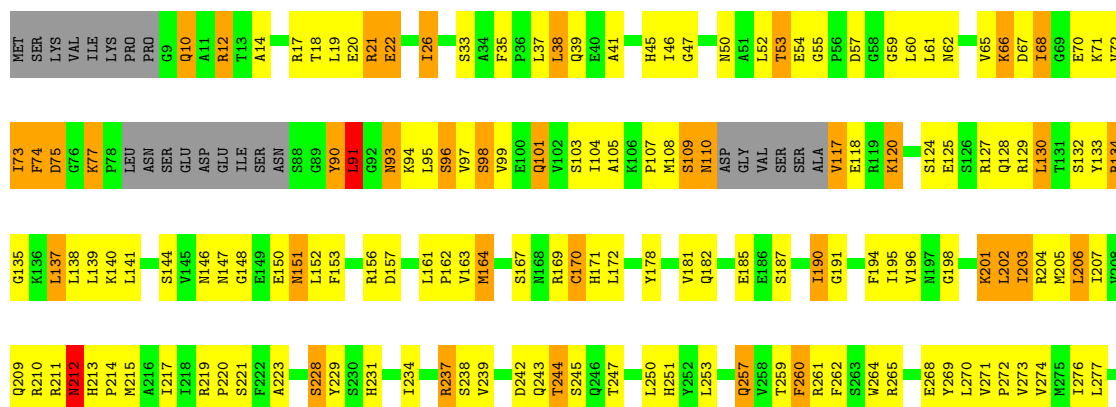


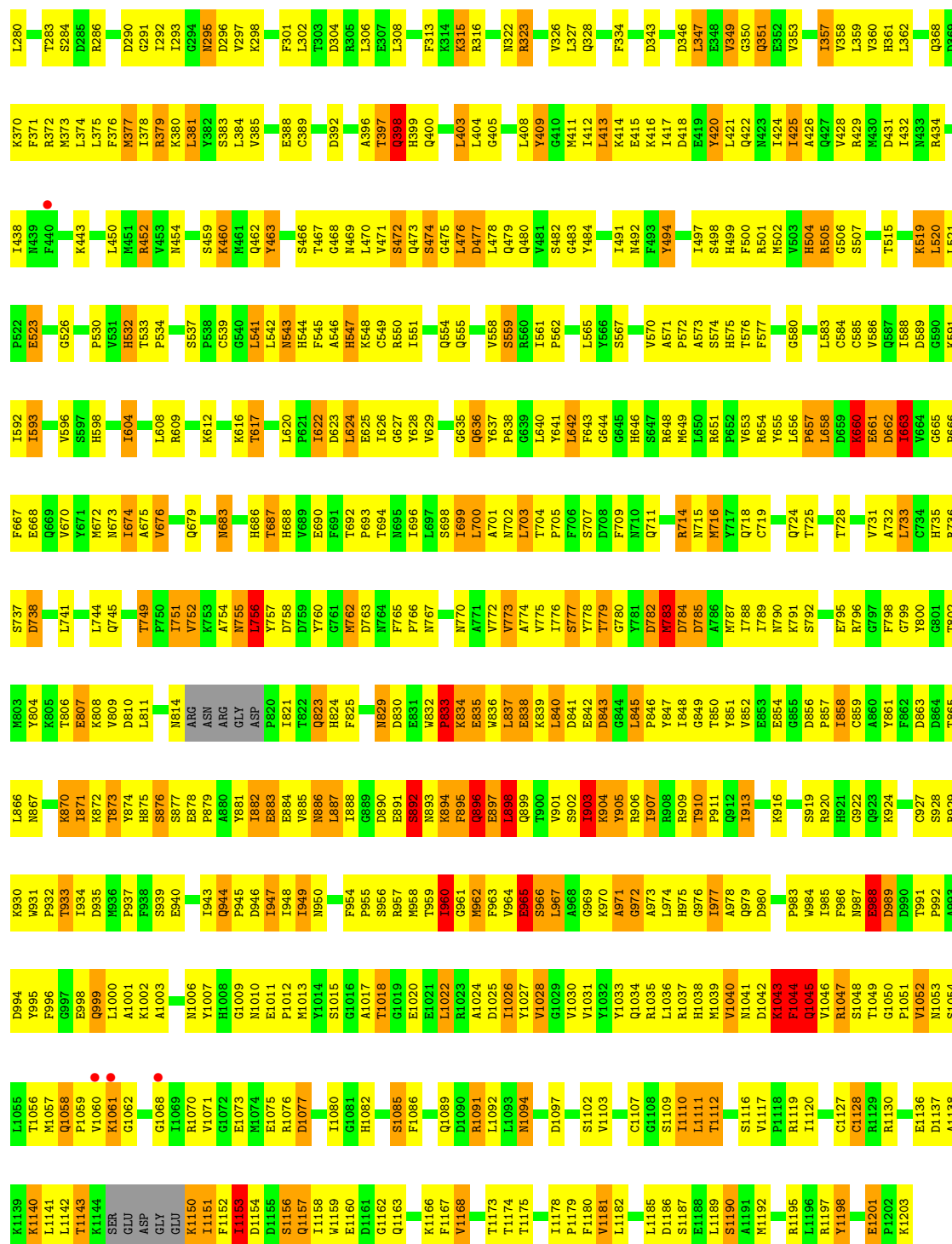






Chain CB:



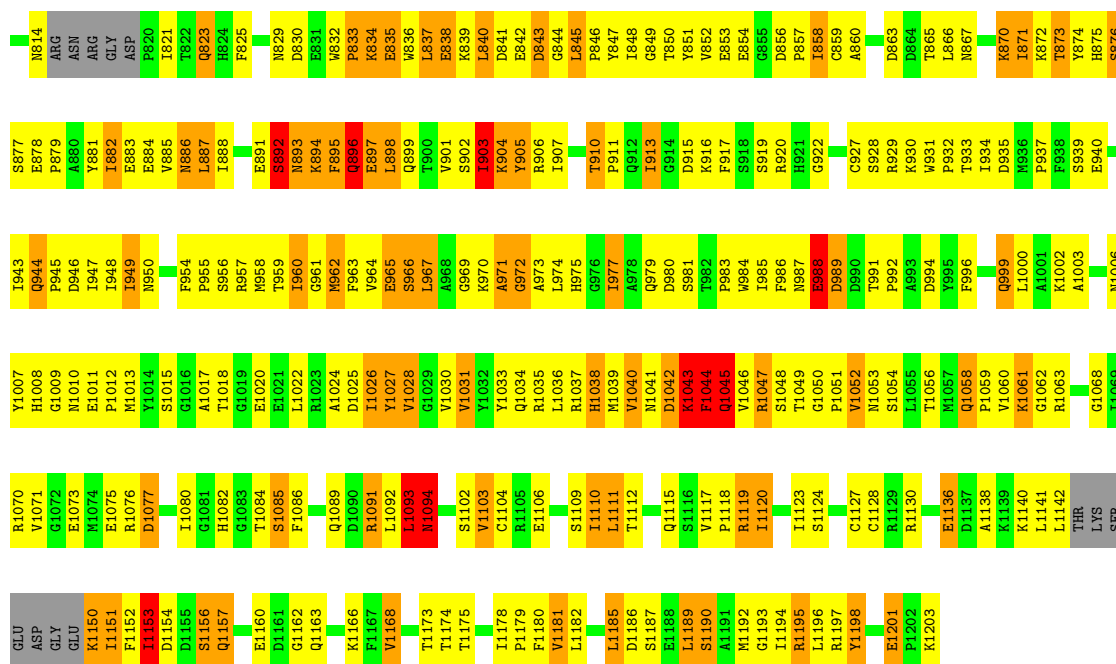


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E1136	T1048	I985	P857	E795	G726	Y655	L583	G506	Y420	V274	L206	T131	K71
D1137	S1049	H921	R1858	R796	H727	L656	L588	S507	L421	M275	I207	S132	V72
A1138	G1050	N987	C859	R796	T728	P657	C584	T515	Q422	M276	L208	Y133	F74
K1139	P1051	E988	A860	G797		L658	C585		V360	L277	Q209	R134	D75
K1140	V1052	D989	Y661	F798	V731	D659	V586	K519	I424		R210	G135	G76
K1141	N1053	D990	F662	G799	A732	K660	Q587	L520	I425		R211	K136	K77
L1142	S1054	R929	D663	Y800	L733	E661	L588	L521	A426		H213	L138	P78
THR	L1055	P992	L663	H802	H735	L662		E523	Q427		P214	L139	LEU
LVS	K1057	T933	L866	K603	R736			E523	R429	D290	M215	K140	ASN
GLU	P1058	I934	L867	Y804	S737	P666		G526	K430	Q291	A216	L141	SER
SER	Q1058	F996		K605	D738	F667		G526	D431	I292	I217		GLU
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					G761	H688		P545	L465	G312	S238	Q166	Q101
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					D763	E690		H547	T467	K314	D242	N168	S103
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					A774	N702		S559	E402	L330		E185	SER
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					N783				G410	S263		N197	Y122
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Chain EB:  36% 45% 14% . .

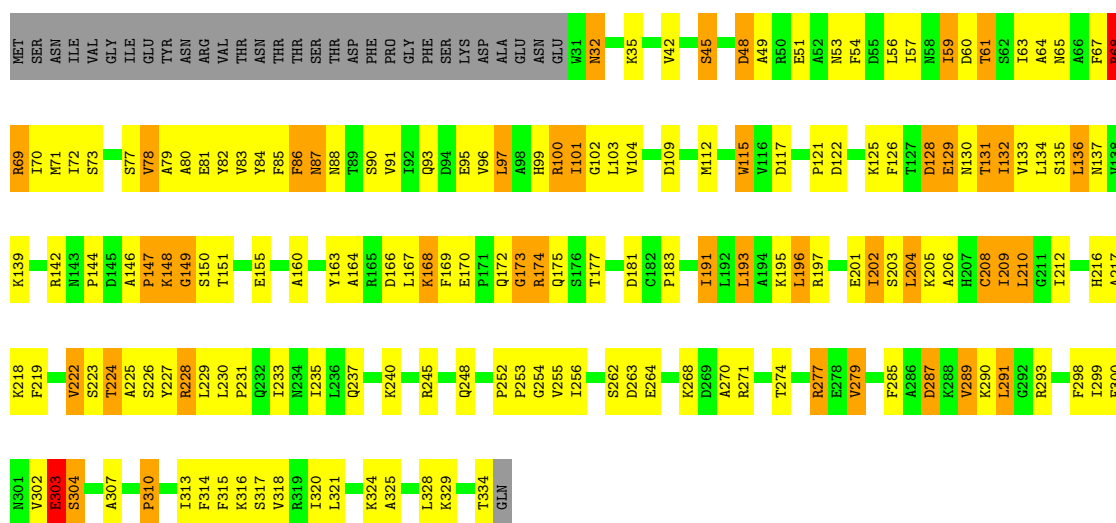






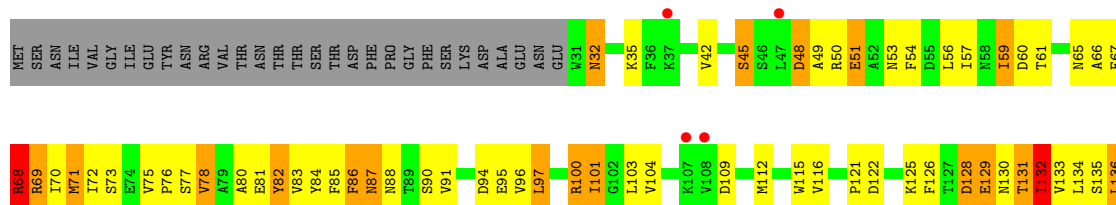
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

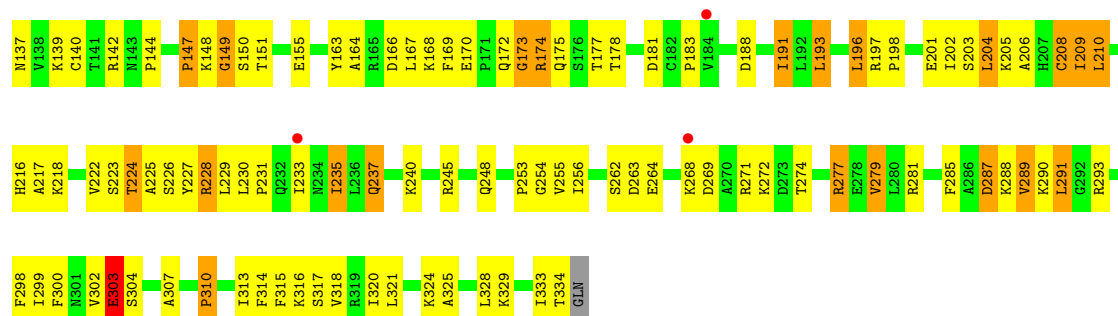
Chain AC: 41% 37% 13% 9%



• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

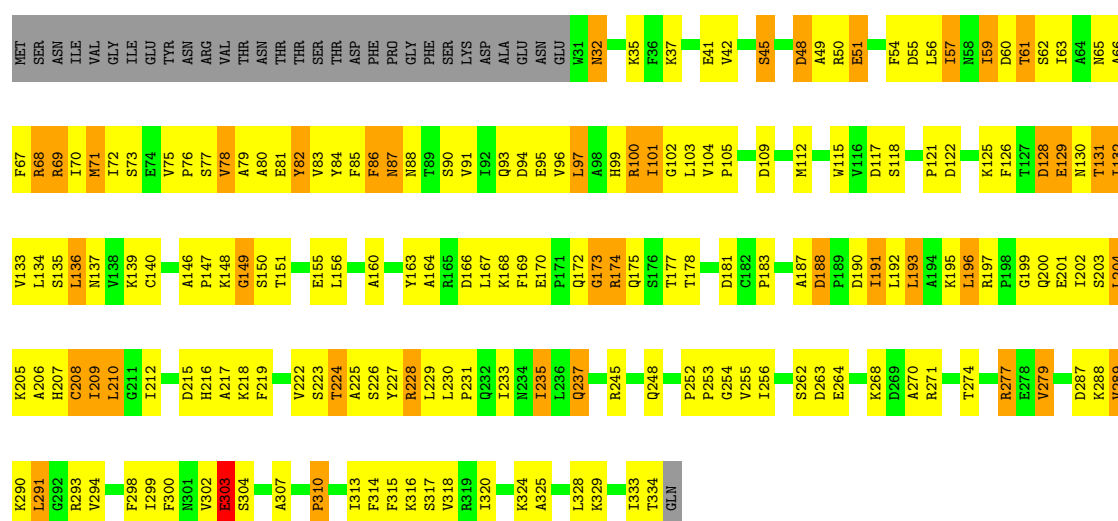
Chain BC: 2% 41% 38% 12% 9%





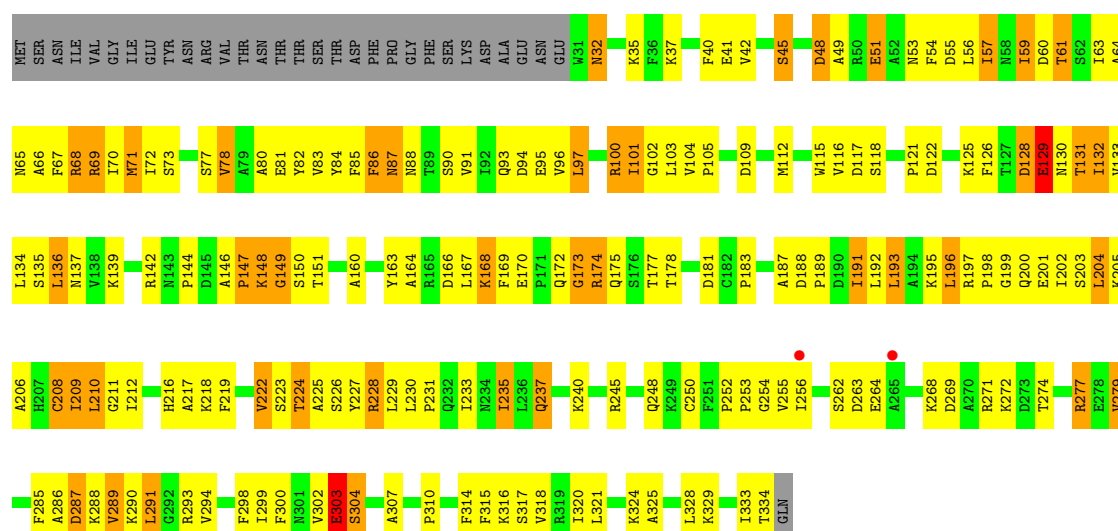
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

Chain CC: 36% 42% 13% 9%



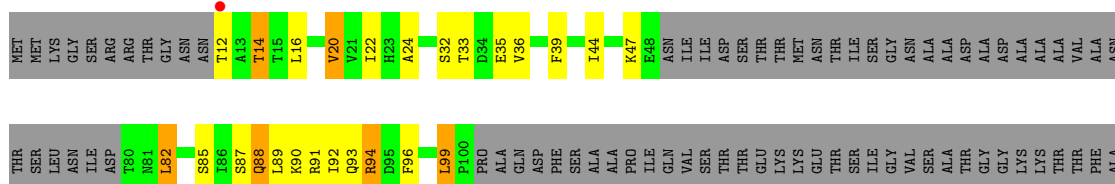
• Molecule 3: DNA-directed RNA polymerases I and III subunit RPAC1

Chain DC: 35% 42% 13% 9%



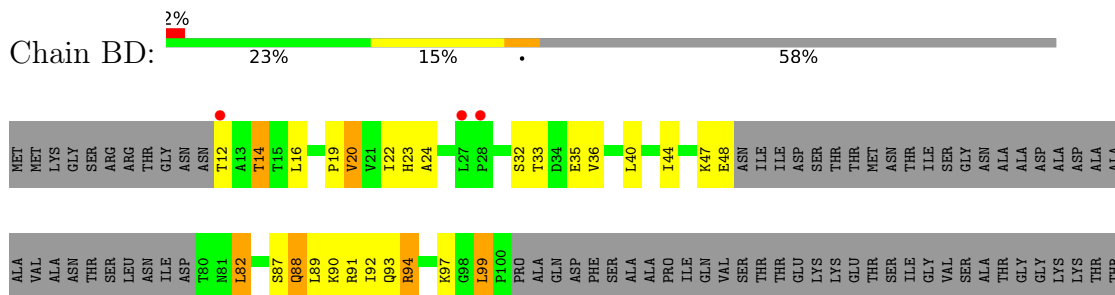


Chain EC: 



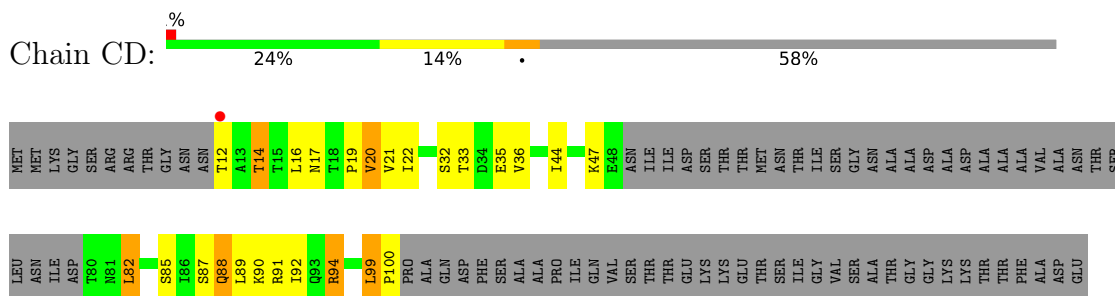
ASP	GLU
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- Molecule 4: DNA-directed RNA polymerase I subunit RPA14

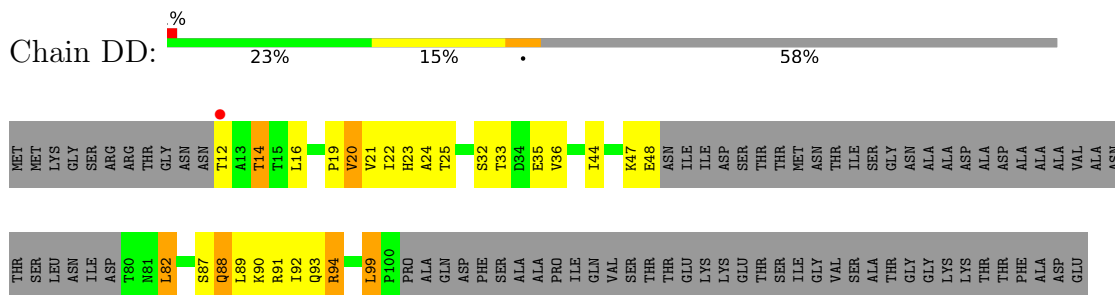


PHE  
ALA  
ASP  
GLU

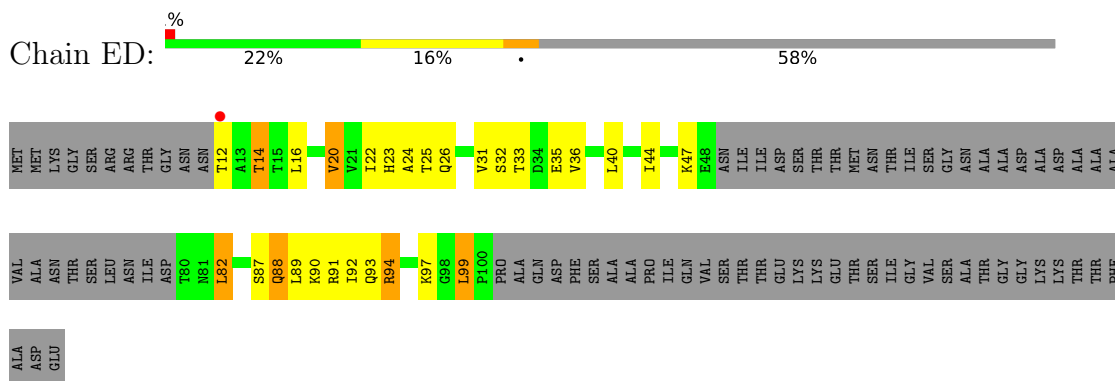
- Molecule 4: DNA-directed RNA polymerase I subunit RPA14



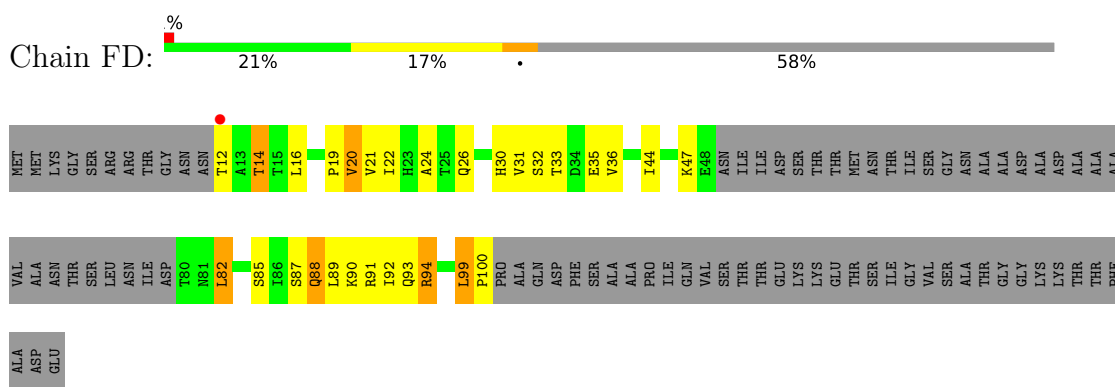
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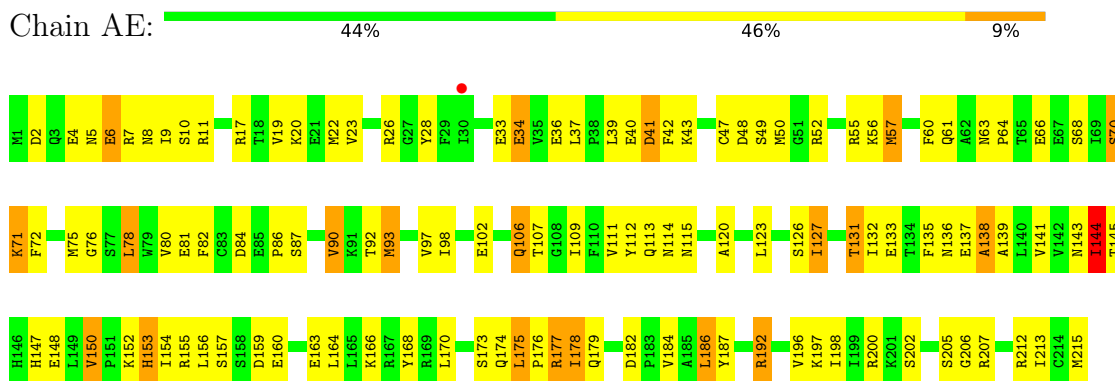
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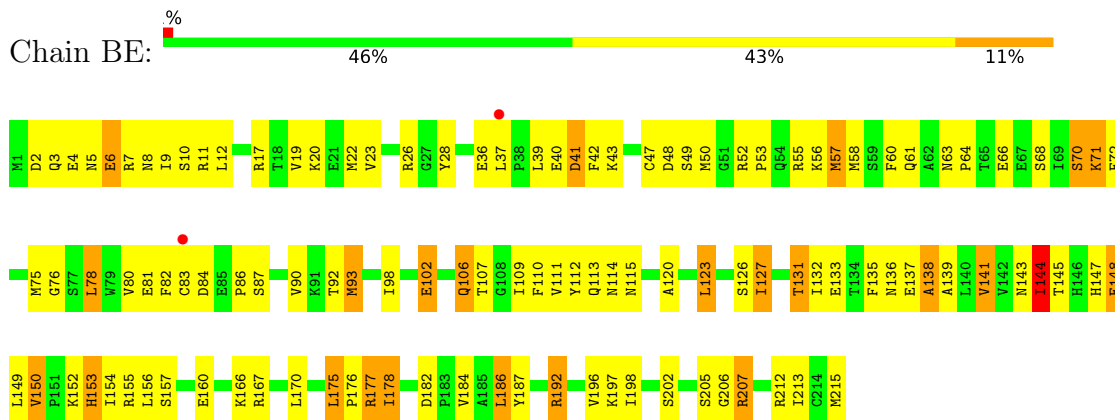
- Molecule 4: DNA-directed RNA polymerase I subunit RPA14



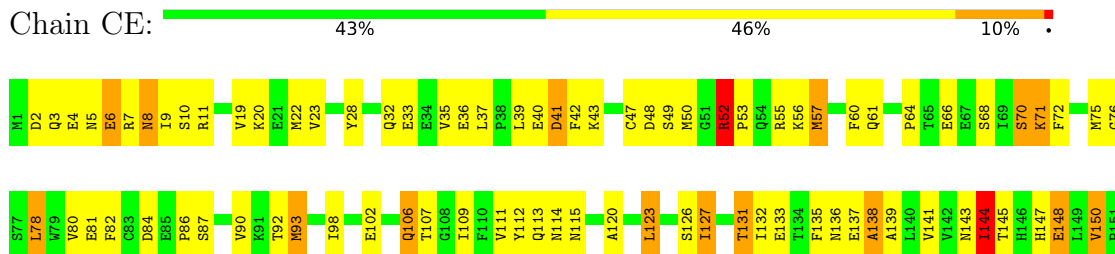
• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1



• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1



• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1





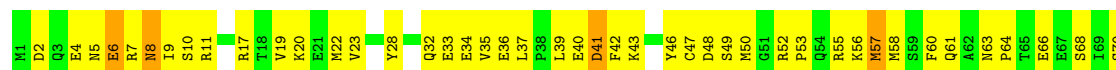
- Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

Chain DE: 40% 49% 11%



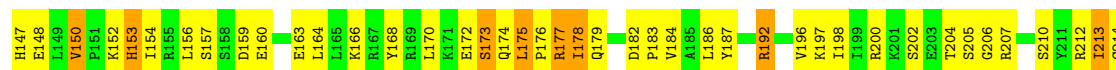
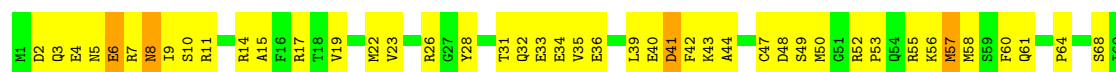
- Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

Chain EE: 43% 47% 10%



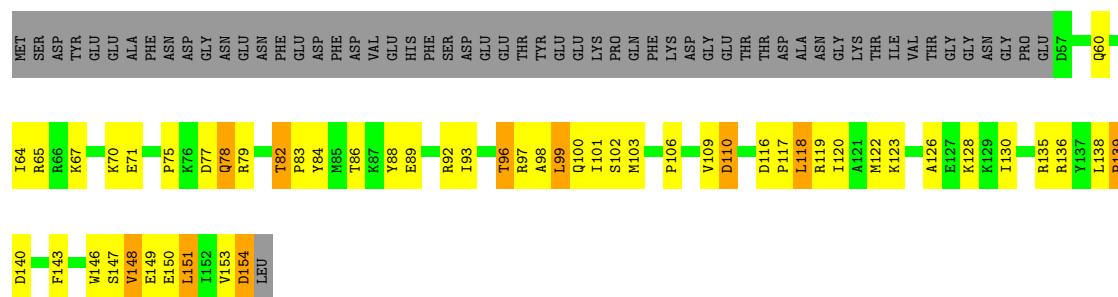
- Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

Chain FE: 40% 49% 10%

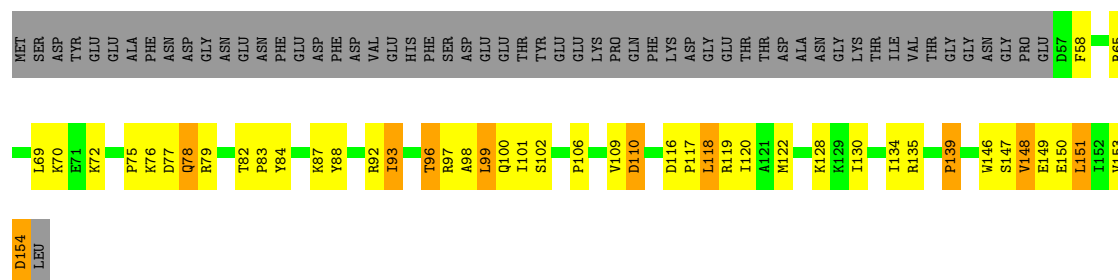


- Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

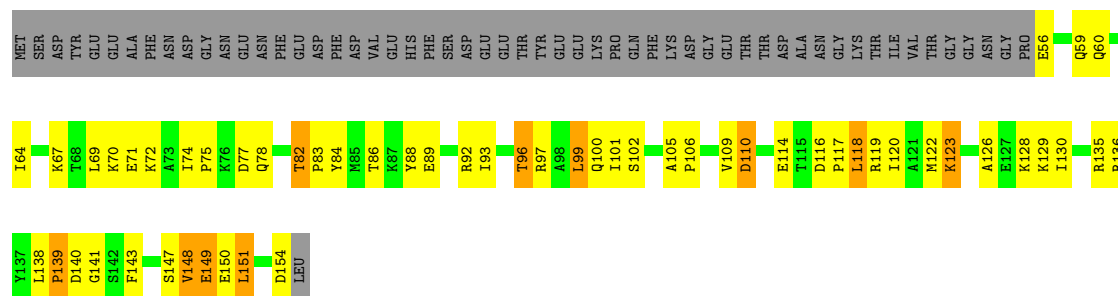
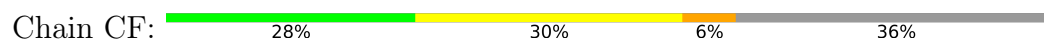
Chain AF: 29% 28% 6% 37%



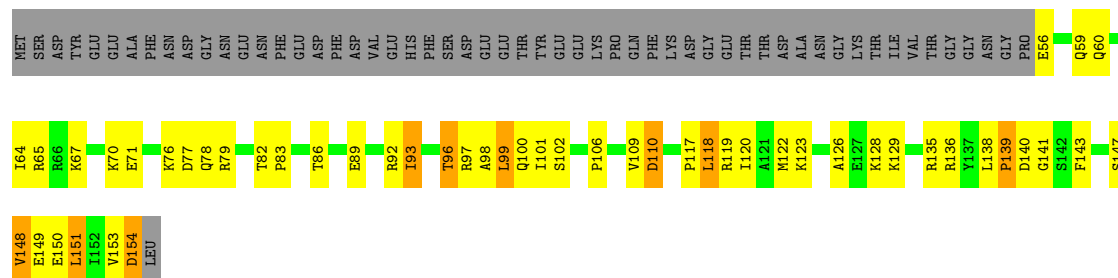
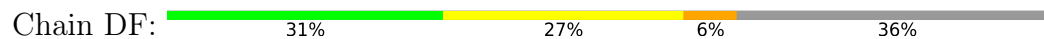
- Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2



- Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

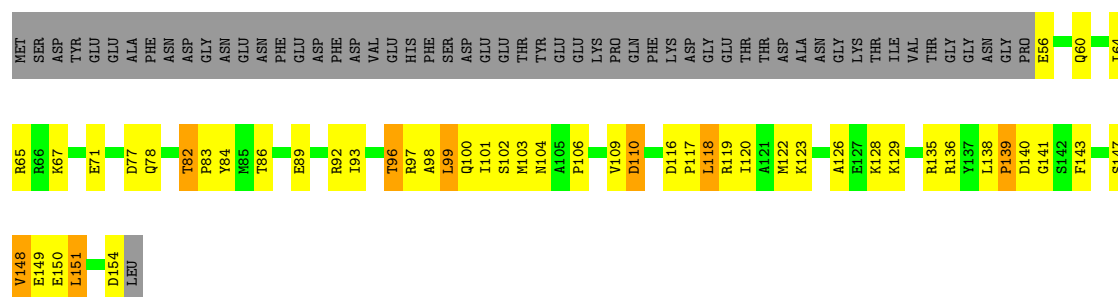


- Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

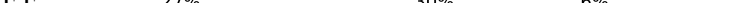


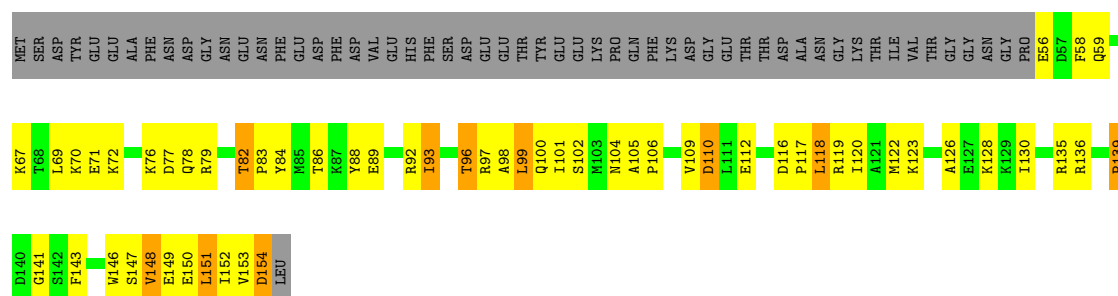
- Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

Chain EF: 

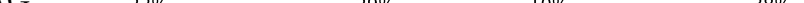


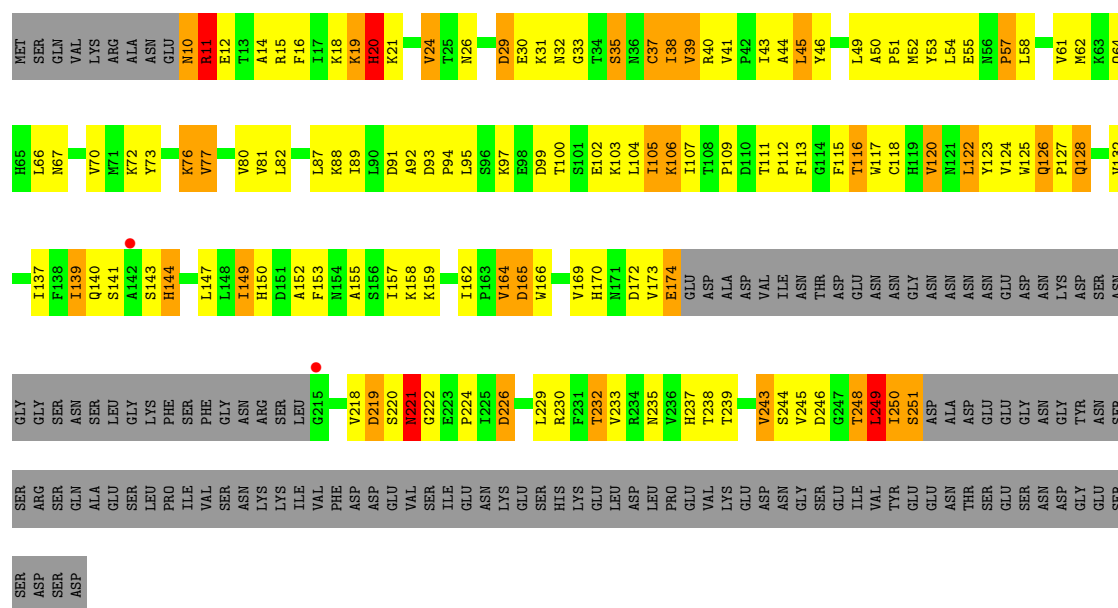
- Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

Chain FF: 



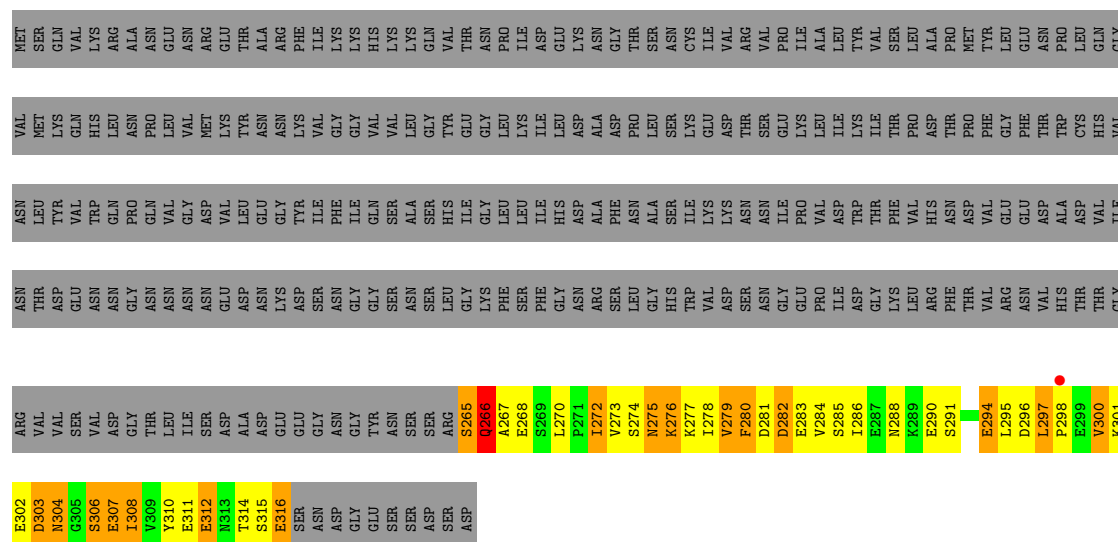
- Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain AG: 

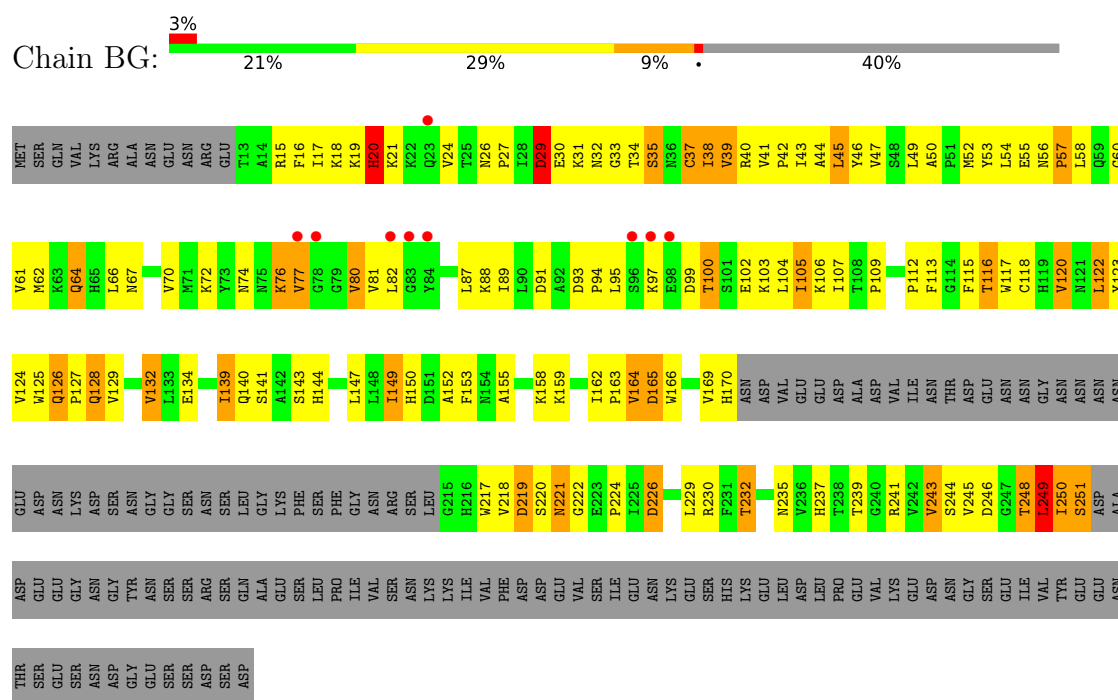


- Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain AO: 7% 5% 84%

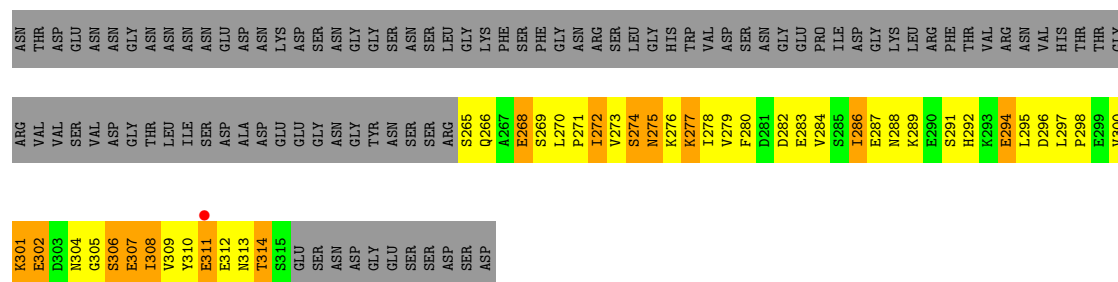


### • Molecule 7: DNA-directed RNA polymerase I subunit RPA43

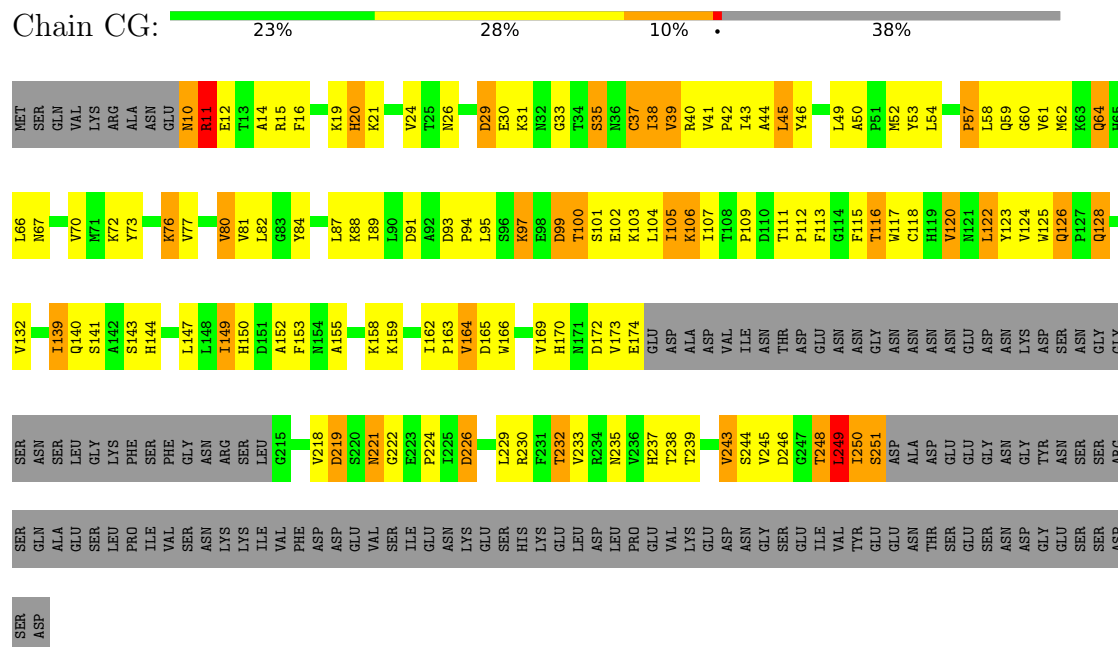


### • Molecule 7: DNA-directed RNA polymerase I subunit RPA43

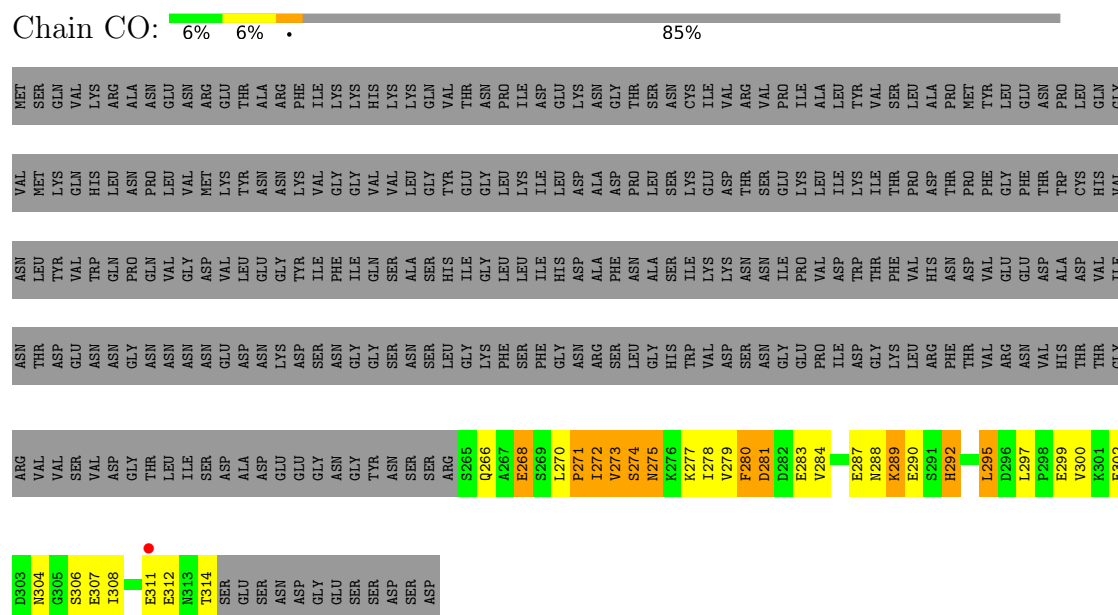




### • Molecule 7: DNA-directed RNA polymerase I subunit RPA43



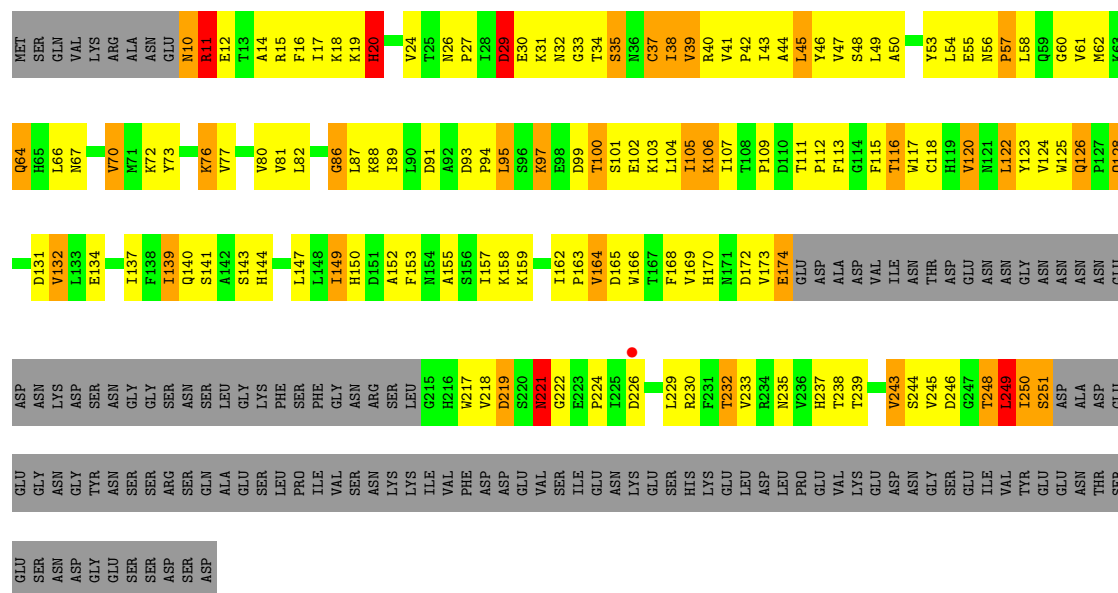
### • Molecule 7: DNA-directed RNA polymerase I subunit RPA43





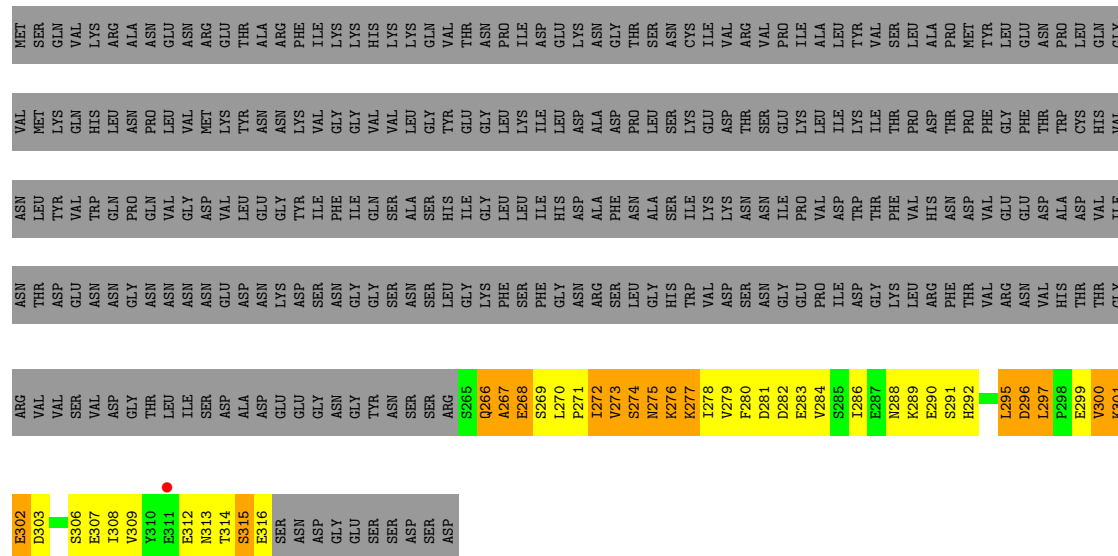
- Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain DG: 

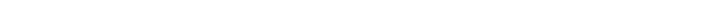


- Molecule 7: DNA-directed RNA polymerase I subunit RPA43

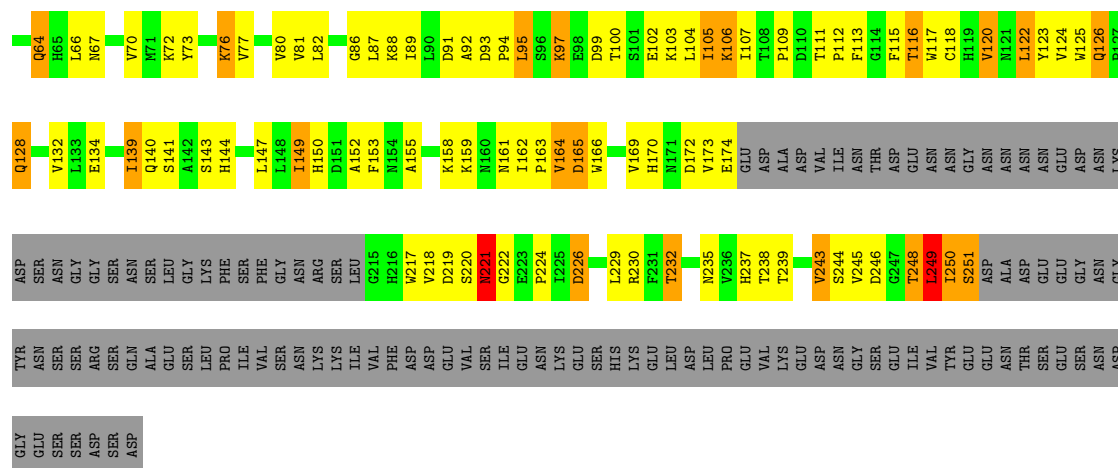
Chain DO: 84%



- Molecule 7: DNA-directed RNA polymerase I subunit RPA43

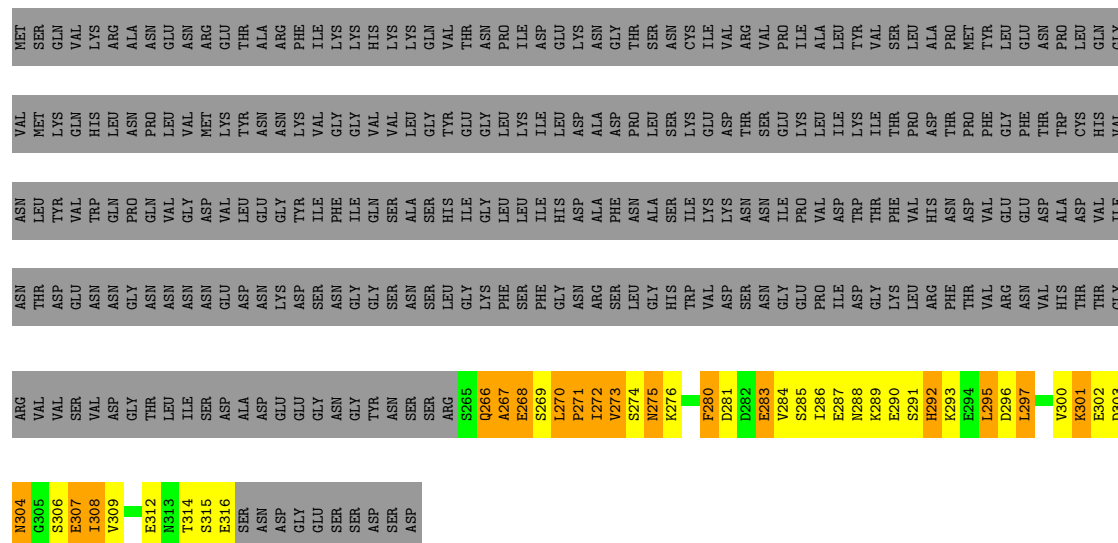
Chain EG: 





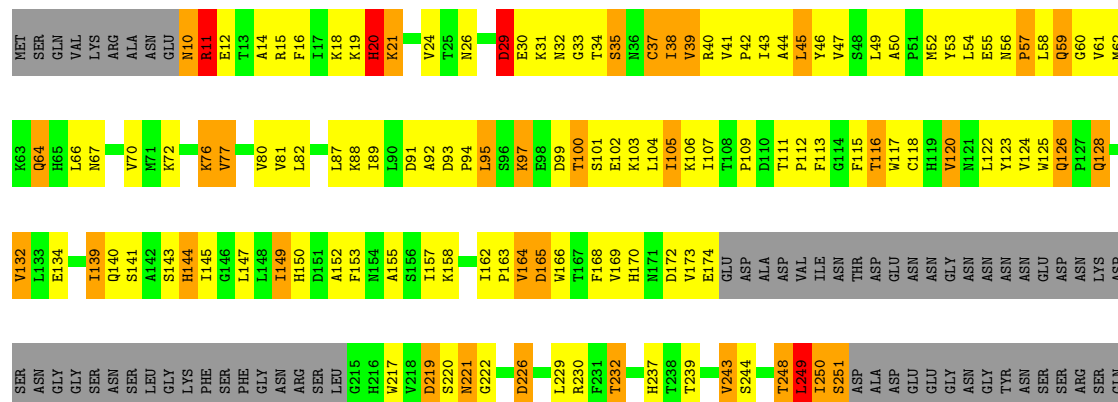
### • Molecule 7: DNA-directed RNA polymerase I subunit RPA43

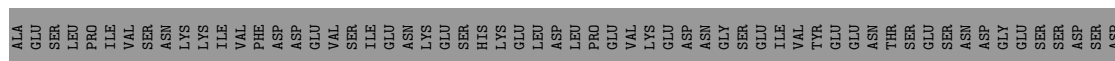
Chain EO: 84%



### • Molecule 7: DNA-directed RNA polymerase I subunit RPA43

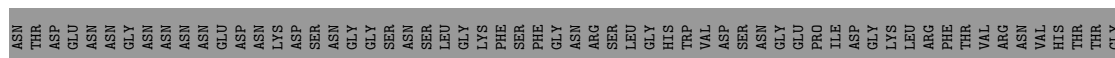
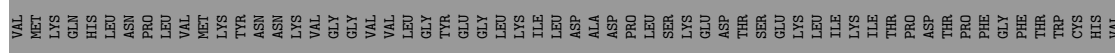
Chain FG: 38%



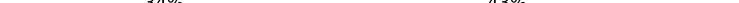


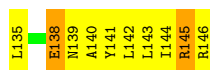
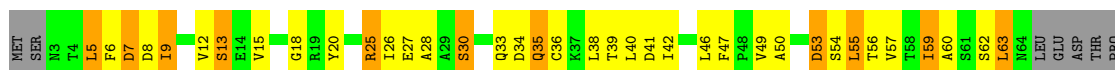
- Molecule 7: DNA-directed RNA polymerase I subunit RPA43

Chain FO:  5% 7% 1% 84%



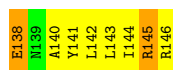
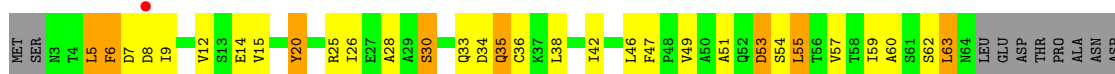
- Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain AH: 



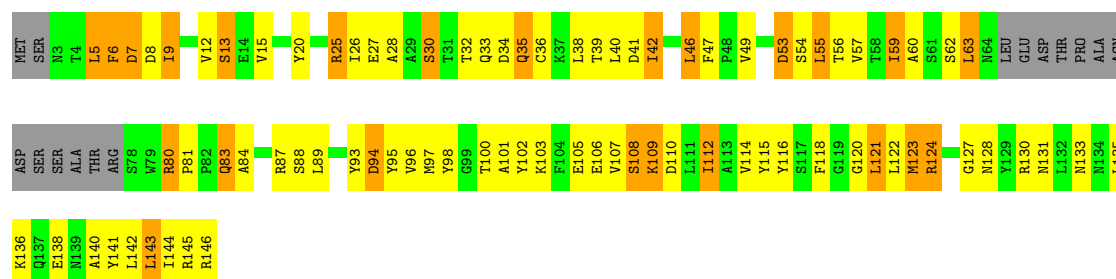
- Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain BH: 



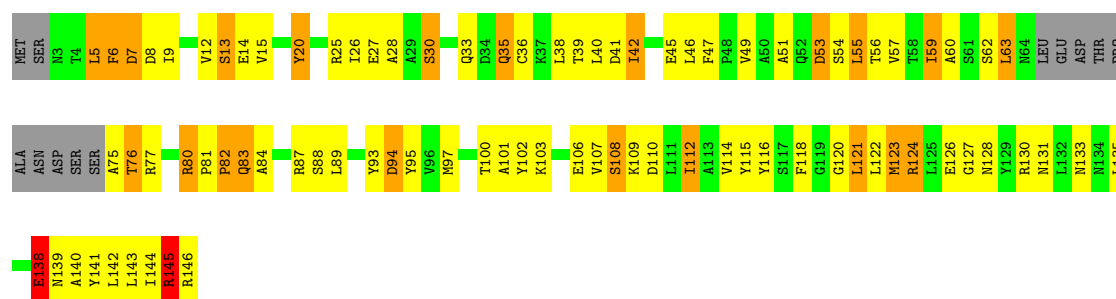
- Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain CH: 



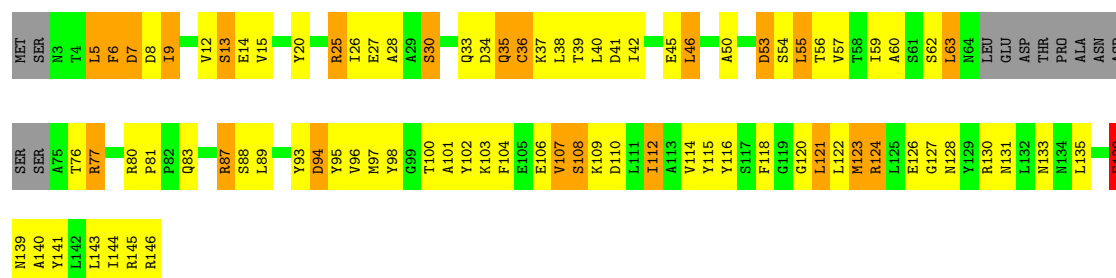
- Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain DH: 



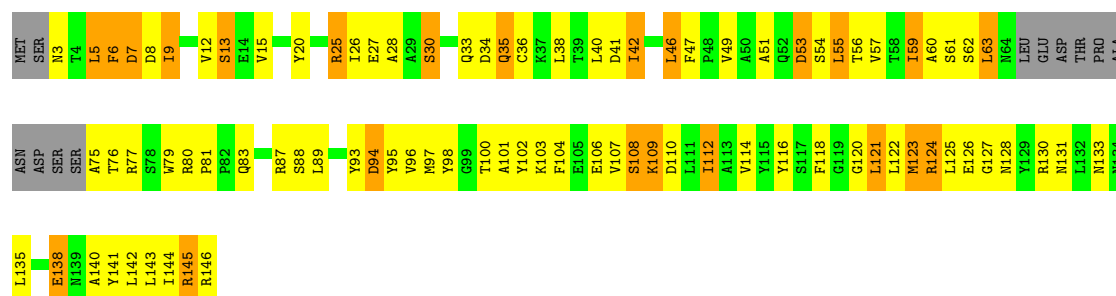
- Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain EH: 

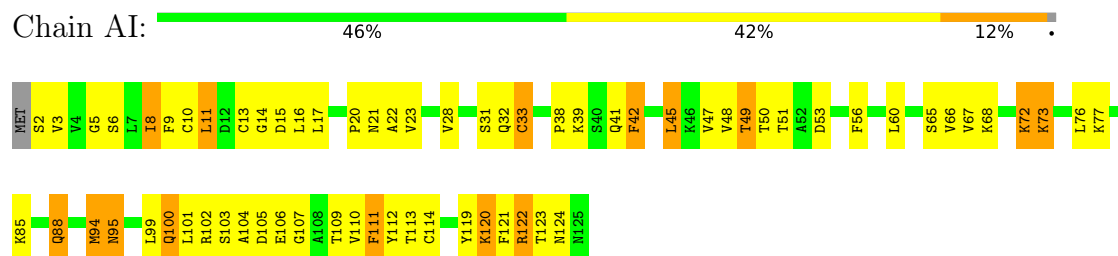


- Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

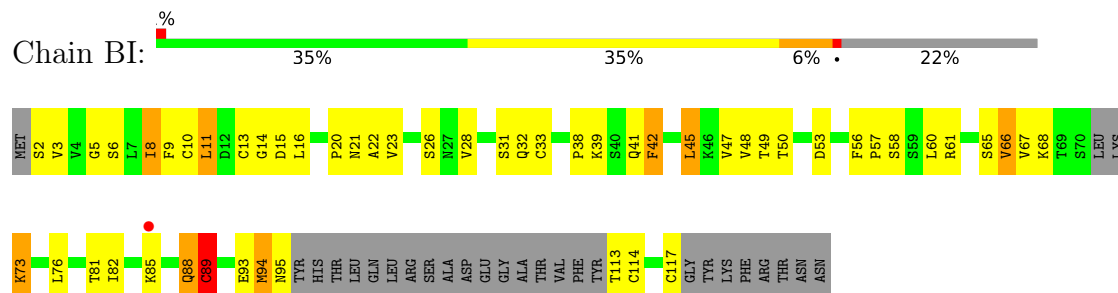
Chain FH: 



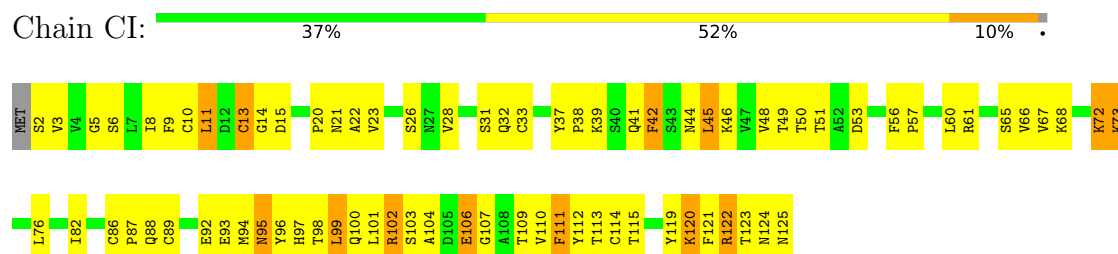
- Molecule 9: DNA-directed RNA polymerase I subunit RPA12



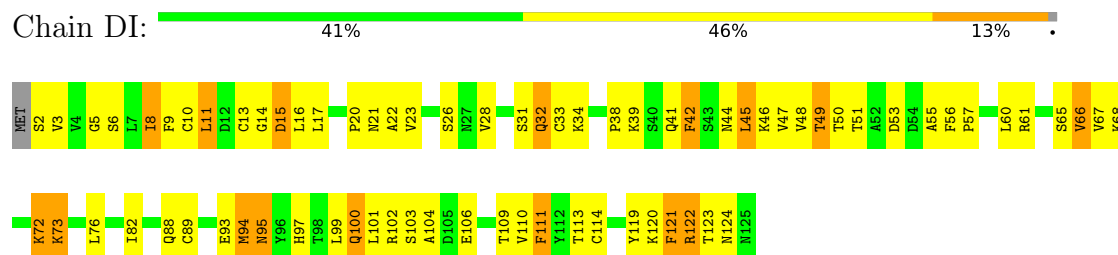
- Molecule 9: DNA-directed RNA polymerase I subunit RPA12



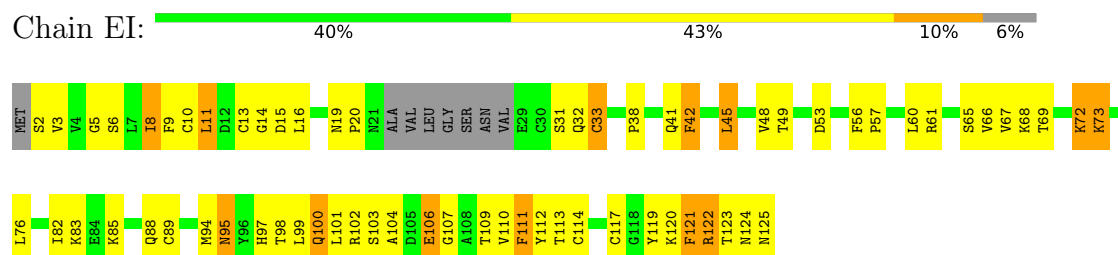
- Molecule 9: DNA-directed RNA polymerase I subunit RPA12



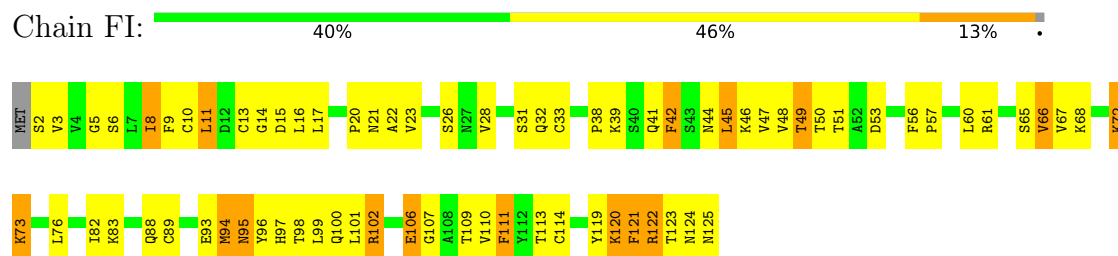
- Molecule 9: DNA-directed RNA polymerase I subunit RPA12



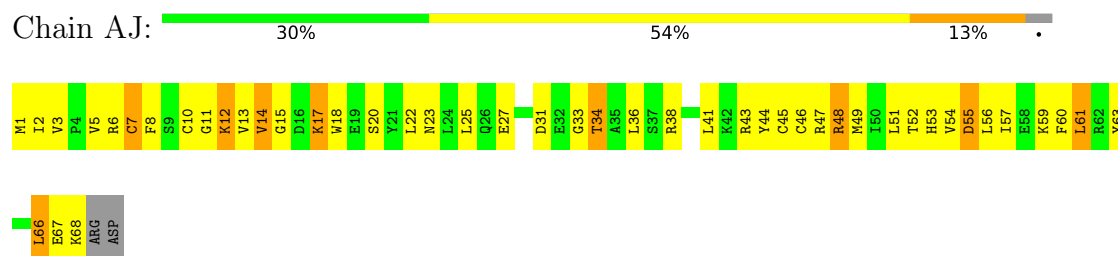
- Molecule 9: DNA-directed RNA polymerase I subunit RPA12



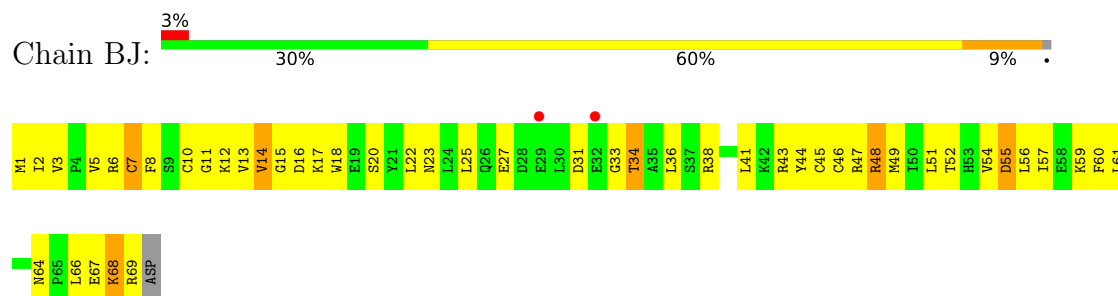
- Molecule 9: DNA-directed RNA polymerase I subunit RPA12



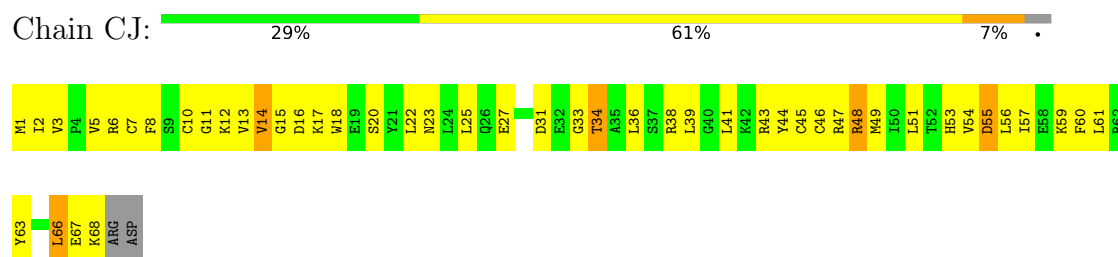
- Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5



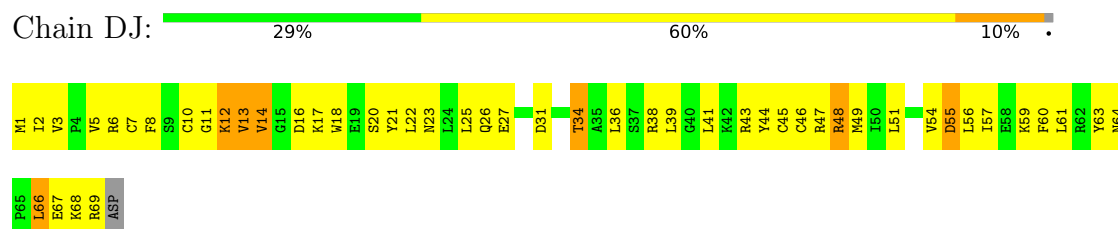
- Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5



- Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

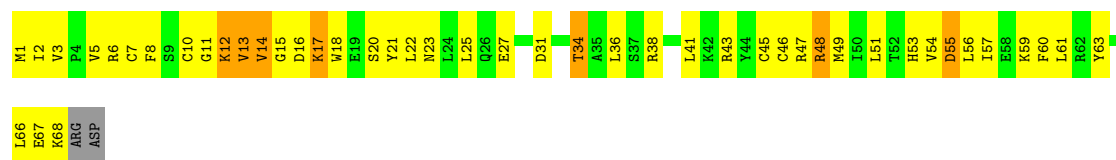


- Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5



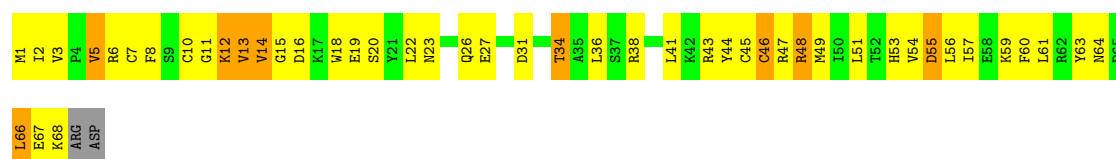
- Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain EJ: 

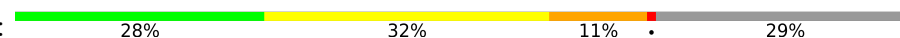


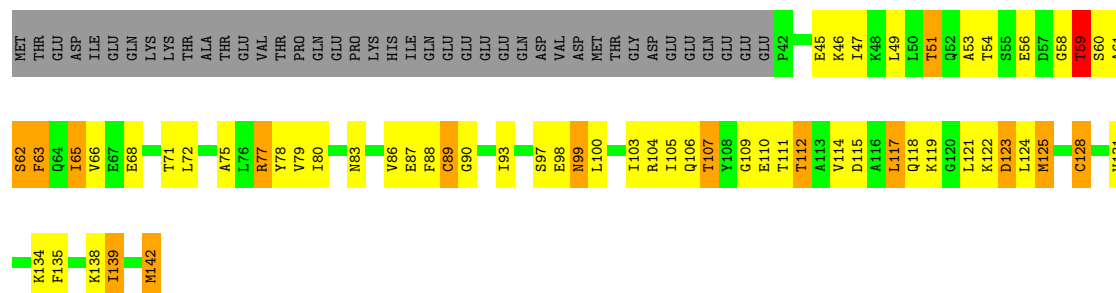
- Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain FJ: 




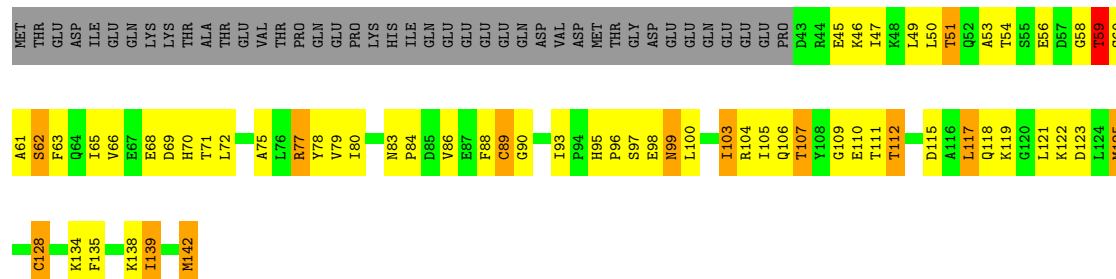
- Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain AK: 




- Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

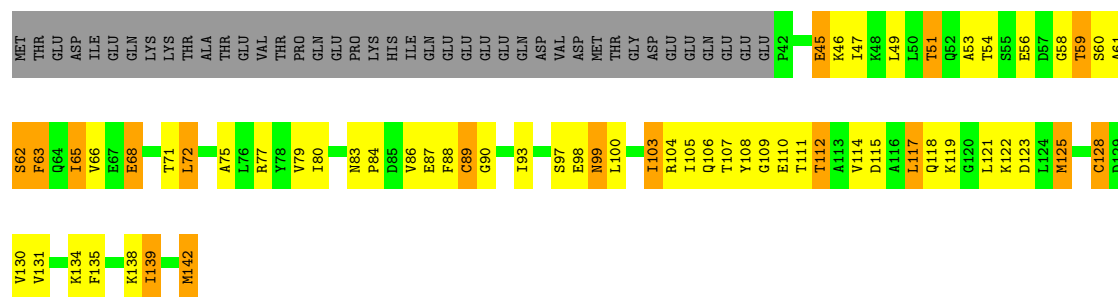
Chain BK: 



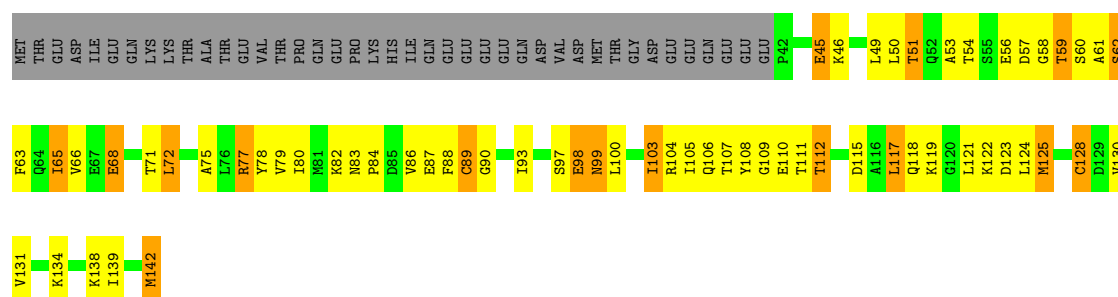
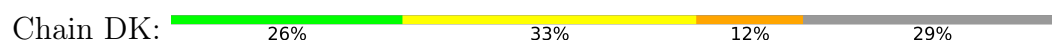
- Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2

Chain CK: 

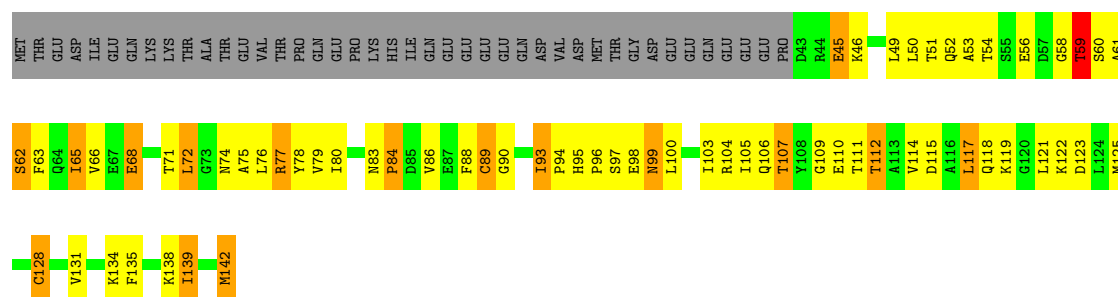
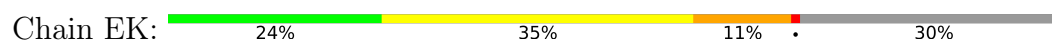




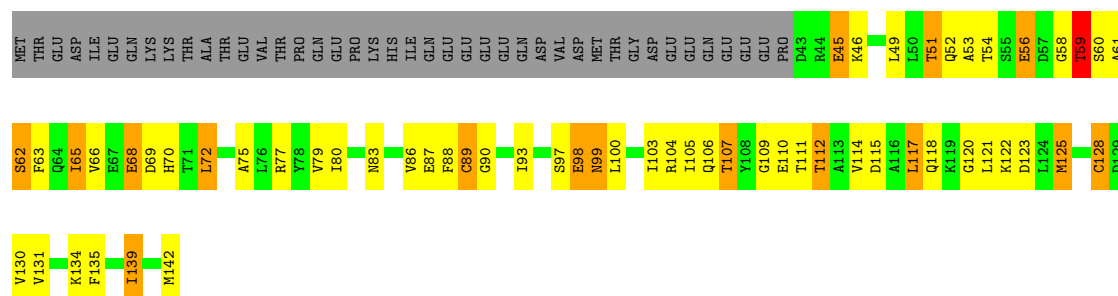
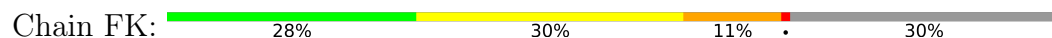
- Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2



- Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2



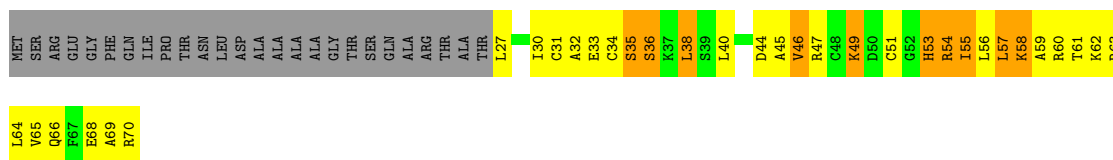
- Molecule 11: DNA-directed RNA polymerases I and III subunit RPAC2



- Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

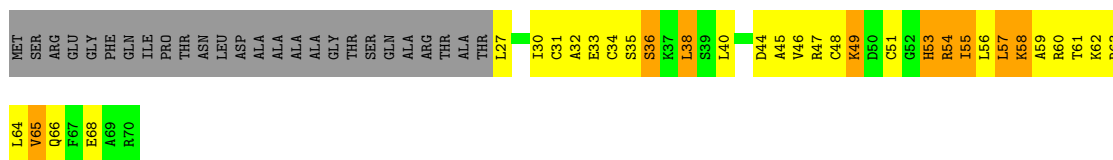


Chain AL: 

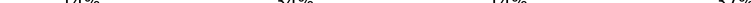


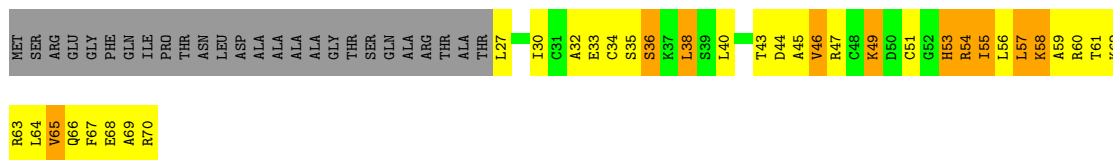
- Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain BL: 



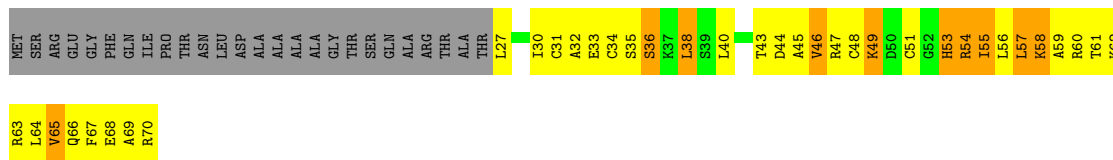
- Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain CL: 



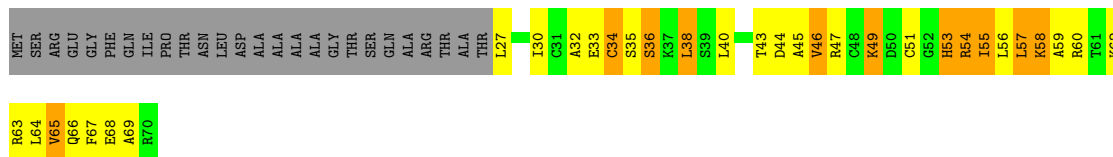
- Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain DL:  11% 37% 14% 37%



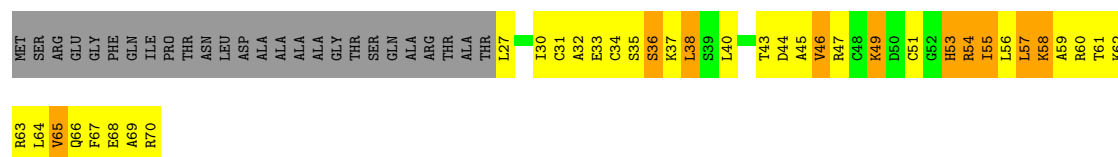
- Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain EL: 



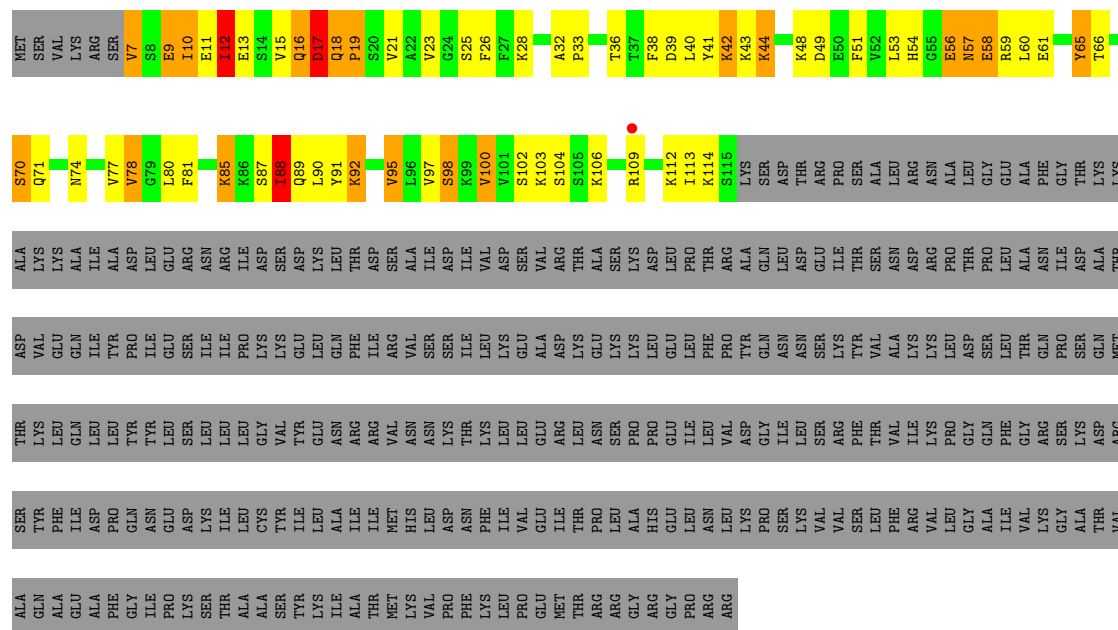
- Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain FL: 



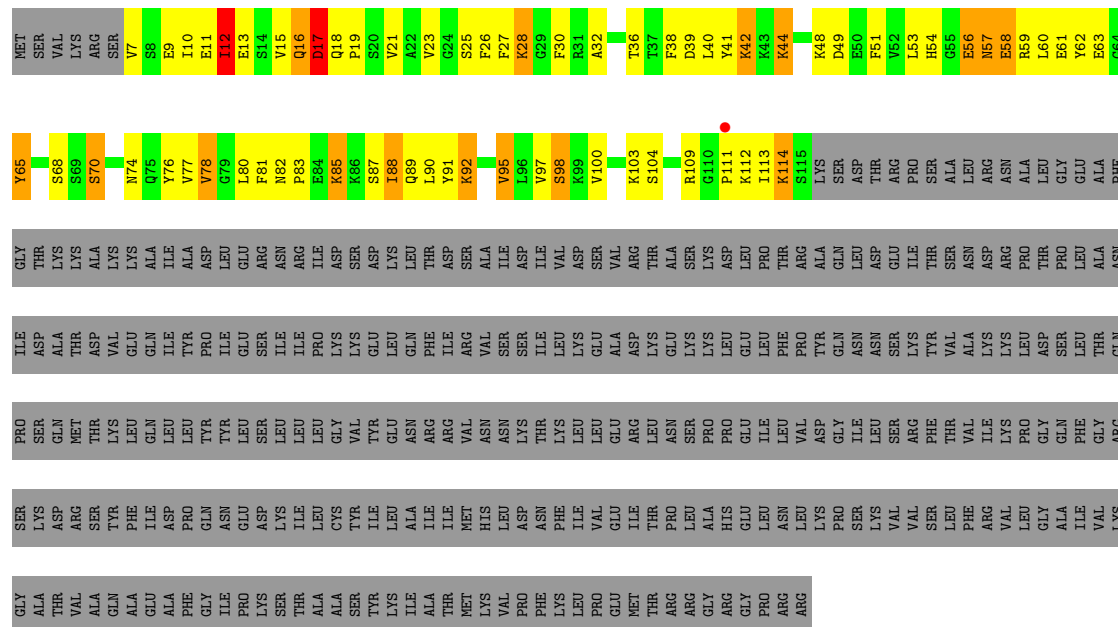
• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

Chain AM: 11% 10% 5% 74%



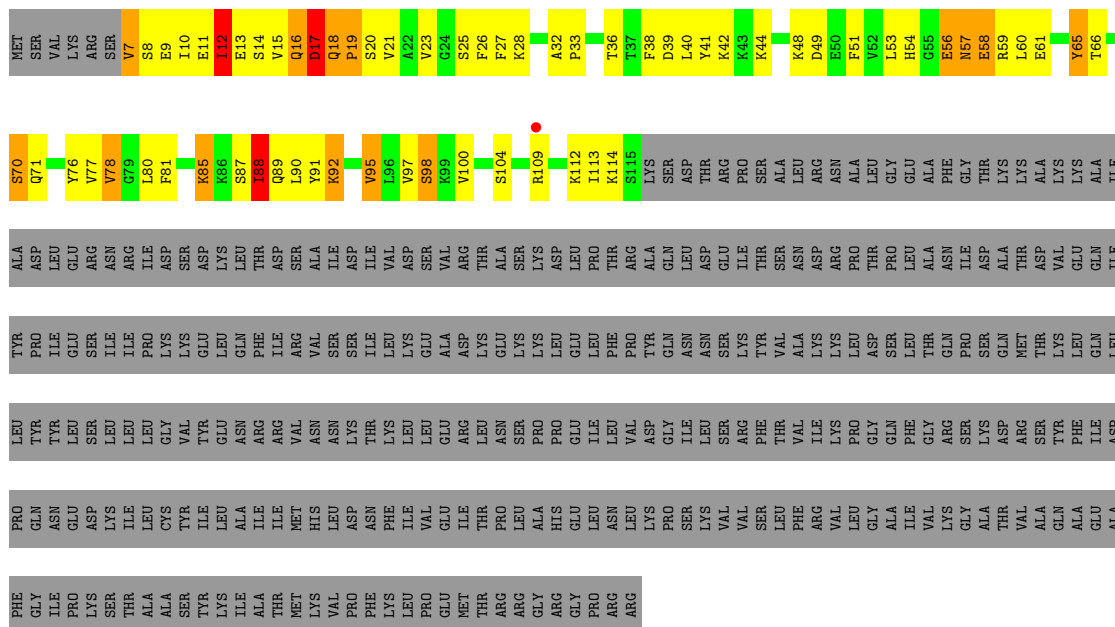
• Molecule 13: DNA-directed RNA polymerase I subunit RPA49

Chain BM: 10% 12% 74%



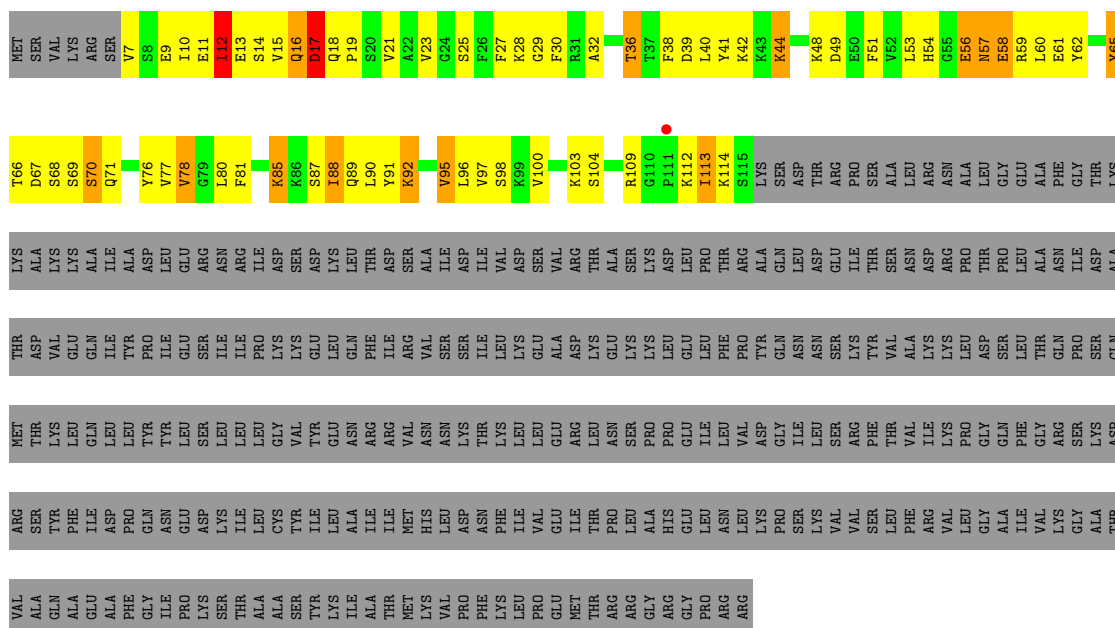
- Molecule 13: DNA-directed RNA polymerase I subunit RPA49

Chain CM:  11% 12% . . 74%



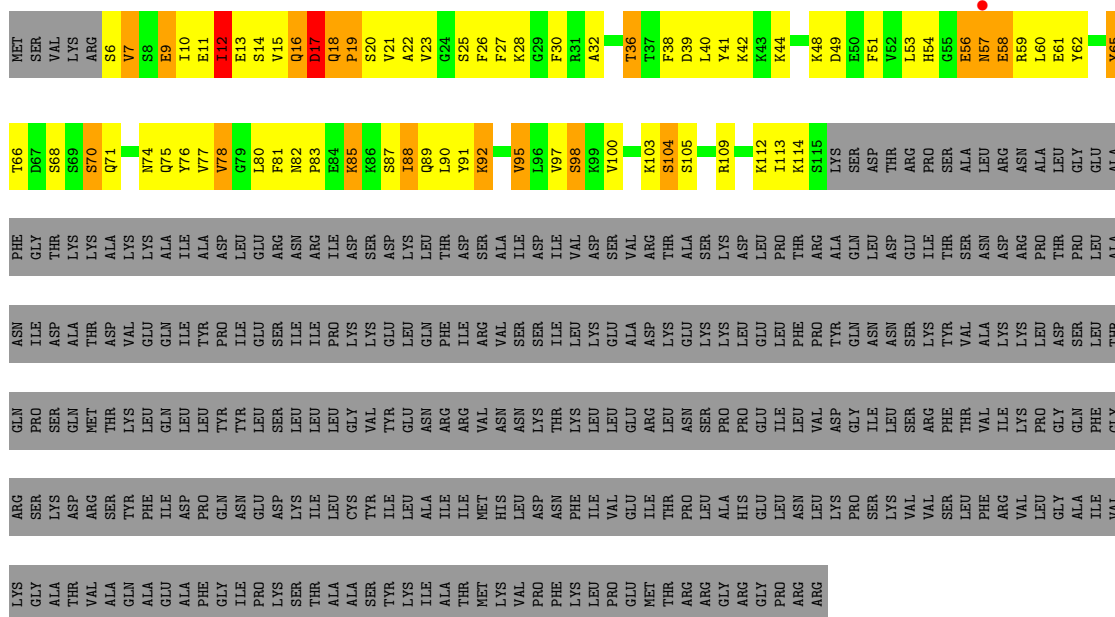
- Molecule 13: DNA-directed RNA polymerase I subunit RPA49

Chain DM:  10% 13% 1% 74%

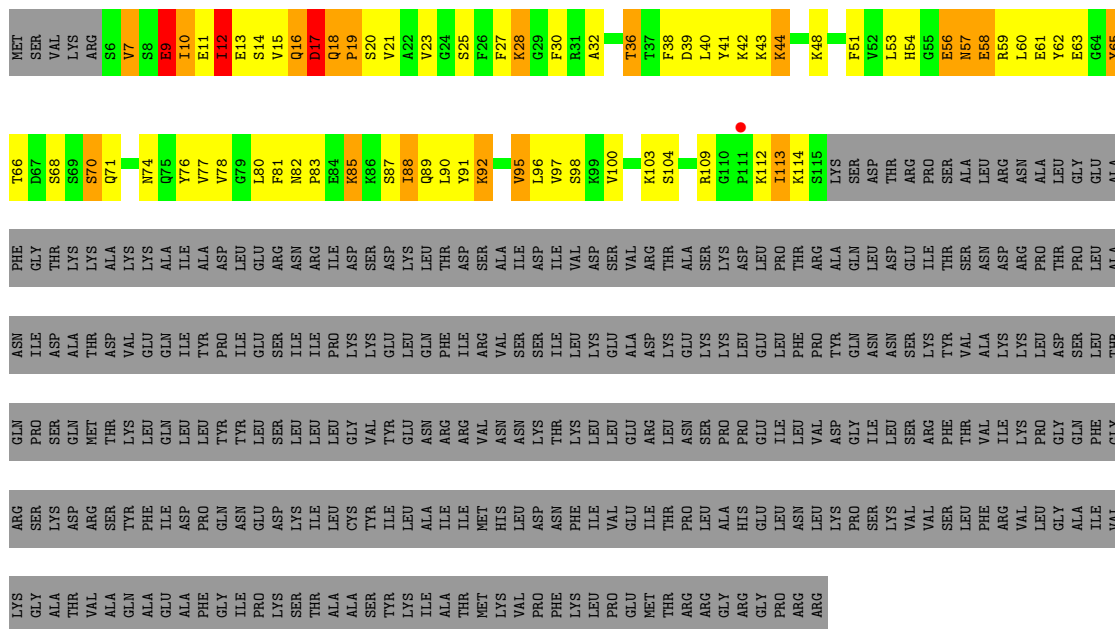


- Molecule 13: DNA-directed RNA polymerase I subunit RPA49

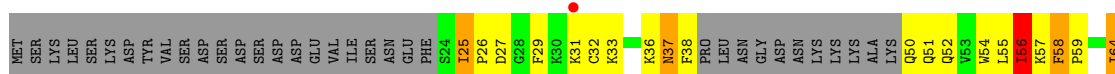
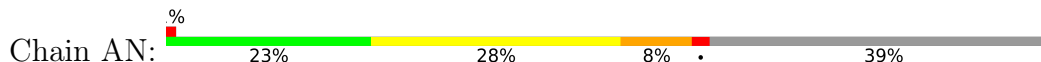
Chain EM:  9% 13% . 73%



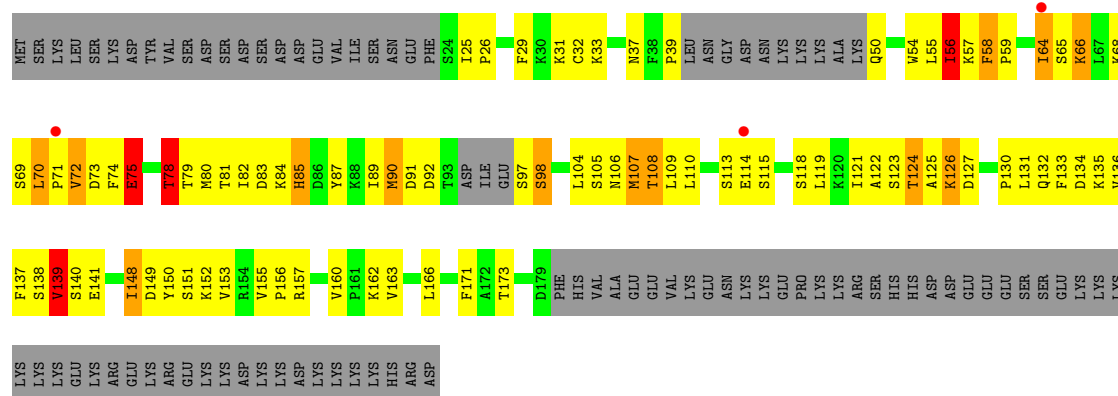
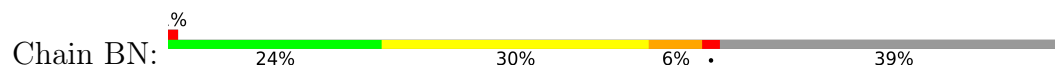
- Molecule 13: DNA-directed RNA polymerase I subunit RPA49



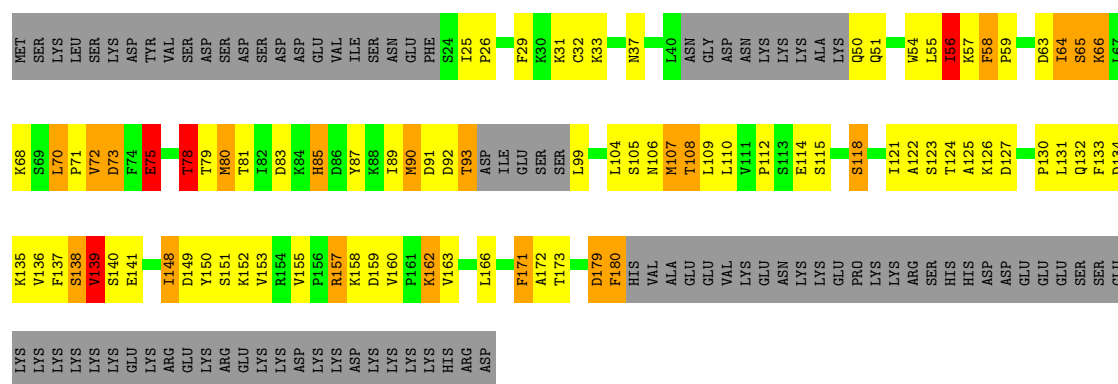
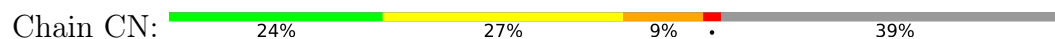
- Molecule 14: DNA-directed RNA polymerase I subunit RPA34



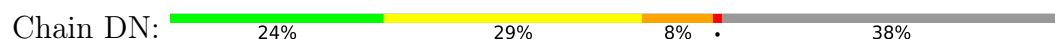
- Molecule 14: DNA-directed RNA polymerase I subunit RPA34

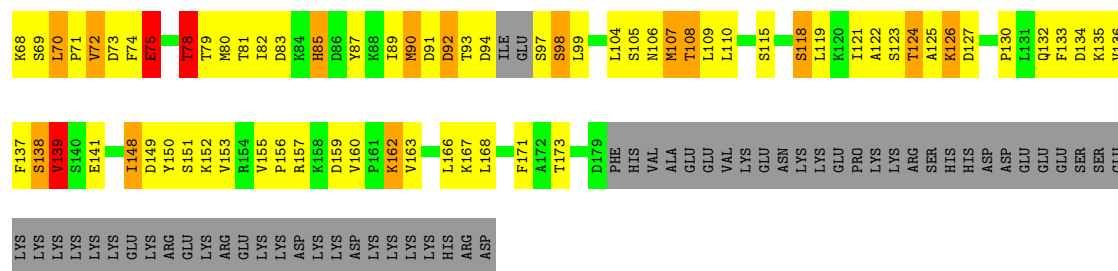


- Molecule 14: DNA-directed RNA polymerase I subunit RPA34

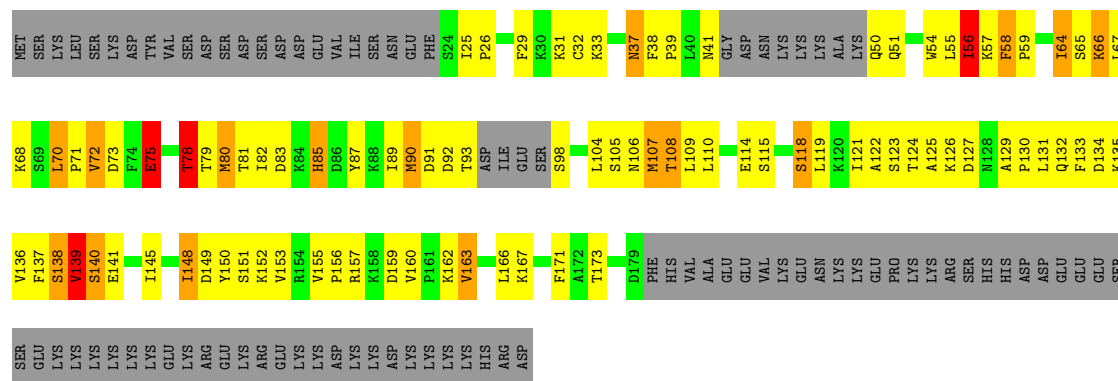
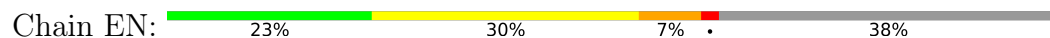


- Molecule 14: DNA-directed RNA polymerase I subunit RPA34

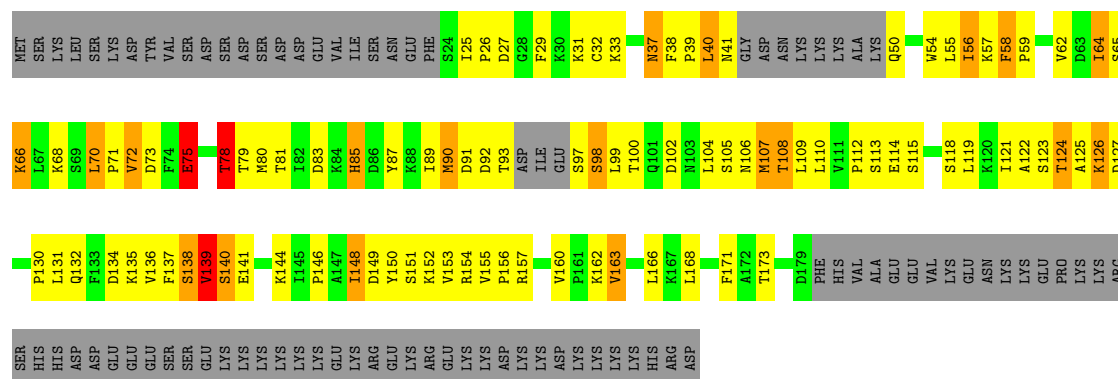
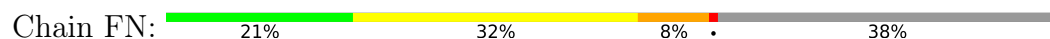




• Molecule 14: DNA-directed RNA polymerase I subunit RPA34



• Molecule 14: DNA-directed RNA polymerase I subunit RPA34



## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	619.48Å 306.62Å 251.78Å 90.00° 97.50° 90.00°	Depositor
Resolution (Å)	49.69 – 5.50 49.69 – 5.50	Depositor EDS
% Data completeness (in resolution range)	99.1 (49.69-5.50) 99.1 (49.69-5.50)	Depositor EDS
$R_{merge}$	0.22	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.77 (at 5.39Å)	Xtriage
Refinement program	PHENIX	Depositor
R, $R_{free}$	0.196 , 0.235 0.200 , 0.240	Depositor DCC
$R_{free}$ test set	1987 reflections (1.33%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	117.0	Xtriage
Anisotropy	0.698	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.28 , 213.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.34$ , $\langle L^2 \rangle = 0.17$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	204233	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	195.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.15% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of  $\langle |L| \rangle$ ,  $\langle L^2 \rangle$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

## 5 Model quality ⓘ

### 5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section:  
ZN

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	AA	0.61	0/11916	0.69	0/16097
1	BA	0.53	0/11752	0.66	0/15875
1	CA	0.66	2/11908 (0.0%)	0.72	0/16086
1	DA	0.67	2/11910 (0.0%)	0.72	0/16090
1	EA	0.68	3/11919 (0.0%)	0.74	2/16099 (0.0%)
1	FA	0.69	2/11923 (0.0%)	0.73	0/16106
2	AB	0.60	0/9389	0.70	0/12685
2	BB	0.57	1/9377 (0.0%)	0.69	0/12671
2	CB	0.70	7/9509 (0.1%)	0.75	1/12847 (0.0%)
2	DB	0.69	4/9474 (0.0%)	0.75	2/12802 (0.0%)
2	EB	0.70	2/9470 (0.0%)	0.75	1/12796 (0.0%)
2	FB	0.70	1/9475 (0.0%)	0.75	1/12802 (0.0%)
3	AC	0.61	0/2465	0.70	0/3342
3	BC	0.53	0/2465	0.66	0/3342
3	CC	0.68	0/2465	0.73	0/3342
3	DC	0.67	0/2465	0.72	0/3342
3	EC	0.73	0/2465	0.76	0/3342
3	FC	0.70	0/2465	0.73	0/3342
4	AD	0.58	0/465	0.69	0/630
4	BD	0.52	0/465	0.68	0/630
4	CD	0.69	0/465	0.76	0/630
4	DD	0.64	0/465	0.75	0/630
4	ED	0.67	0/465	0.74	0/630
4	FD	0.71	0/465	0.78	0/630
5	AE	0.54	0/1796	0.66	0/2416
5	BE	0.49	0/1796	0.64	0/2416
5	CE	0.60	0/1796	0.71	2/2416 (0.1%)
5	DE	0.60	0/1796	0.72	2/2416 (0.1%)
5	EE	0.59	0/1796	0.69	0/2416
5	FE	0.64	0/1796	0.71	0/2416
6	AF	0.56	0/821	0.64	0/1106
6	BF	0.50	0/821	0.59	0/1106



Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
6	CF	0.66	0/830	0.68	0/1118
6	DF	0.64	0/830	0.68	0/1118
6	EF	0.66	0/830	0.68	0/1118
6	FF	0.65	0/830	0.68	0/1118
7	AG	0.59	0/1637	0.72	1/2226 (0.0%)
7	AO	0.83	0/417	0.78	0/562
7	BG	0.52	0/1577	0.67	0/2145
7	BO	0.84	0/408	0.78	0/550
7	CG	0.68	0/1637	0.76	1/2226 (0.0%)
7	CO	1.02	3/402 (0.7%)	0.93	0/542
7	DG	0.66	0/1637	0.77	1/2226 (0.0%)
7	DO	0.95	0/417	0.91	0/562
7	EG	0.65	0/1637	0.73	2/2226 (0.1%)
7	EO	0.94	0/417	0.86	0/562
7	FG	0.70	0/1637	0.79	2/2226 (0.1%)
7	FO	0.97	2/417 (0.5%)	0.90	0/562
8	AH	0.70	0/1081	0.72	0/1463
8	BH	0.52	0/1070	0.63	0/1449
8	CH	0.70	0/1070	0.72	0/1449
8	DH	0.71	0/1093	0.71	0/1480
8	EH	0.73	1/1093 (0.1%)	0.75	0/1480
8	FH	0.78	0/1093	0.78	0/1480
9	AI	0.69	0/956	0.73	0/1288
9	BI	0.61	1/721 (0.1%)	0.66	0/969
9	CI	0.72	2/956 (0.2%)	0.75	1/1288 (0.1%)
9	DI	0.71	0/956	0.73	0/1288
9	EI	0.83	1/910 (0.1%)	0.77	0/1223
9	FI	0.81	2/956 (0.2%)	0.75	0/1288
10	AJ	0.60	0/567	0.64	0/761
10	BJ	0.59	0/578	0.65	0/775
10	CJ	0.72	0/567	0.69	0/761
10	DJ	0.64	0/578	0.67	0/775
10	EJ	0.74	0/567	0.71	0/761
10	FJ	0.71	1/567 (0.2%)	0.70	0/761
11	AK	0.64	0/804	0.69	0/1083
11	BK	0.50	0/796	0.63	0/1072
11	CK	0.69	0/804	0.70	0/1083
11	DK	0.64	0/804	0.69	0/1083
11	EK	0.68	0/796	0.71	0/1072
11	FK	0.66	0/796	0.70	0/1072
12	AL	0.71	0/354	0.74	0/468
12	BL	0.64	1/354 (0.3%)	0.71	0/468
12	CL	0.77	0/354	0.79	0/468

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
12	DL	0.71	1/354 (0.3%)	0.77	0/468
12	EL	0.83	1/354 (0.3%)	0.85	0/468
12	FL	0.72	0/354	0.75	0/468
13	AM	0.68	0/879	0.73	0/1180
13	BM	0.66	0/879	0.73	0/1180
13	CM	0.77	0/879	0.76	0/1180
13	DM	0.75	0/879	0.75	0/1180
13	EM	0.78	2/885 (0.2%)	0.78	0/1188
13	FM	0.79	1/885 (0.1%)	0.79	0/1188
14	AN	0.68	0/1148	0.76	1/1546 (0.1%)
14	BN	0.64	0/1151	0.77	1/1552 (0.1%)
14	CN	0.76	0/1159	0.82	1/1563 (0.1%)
14	DN	0.73	0/1167	0.82	0/1574
14	EN	0.78	0/1161	0.82	1/1566 (0.1%)
14	FN	0.76	1/1167 (0.1%)	0.82	0/1574
All	All	0.66	44/208122 (0.0%)	0.72	23/281066 (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	EA	0	1

All (44) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	FO	294	GLU	CB-CG	7.84	1.67	1.52
1	EA	65	CYS	CB-SG	-7.74	1.69	1.82
9	EI	33	CYS	CB-SG	-7.71	1.69	1.82
1	EA	75	HIS	CA-CB	-7.70	1.37	1.53
7	FO	294	GLU	CG-CD	6.88	1.62	1.51
1	EA	75	HIS	CG-CD2	6.52	1.46	1.35
12	DL	48	CYS	CB-SG	-6.29	1.71	1.82
2	CB	10	GLN	CB-CG	6.24	1.69	1.52
2	CB	1128	CYS	CB-SG	-6.15	1.71	1.82
2	CB	807	GLU	CG-CD	6.04	1.61	1.51
9	FI	125	ASN	CB-CG	5.98	1.64	1.51
2	EB	1028	VAL	CB-CG1	-5.89	1.40	1.52
1	DA	1616	GLU	CG-CD	5.87	1.60	1.51
2	DB	20	GLU	CG-CD	5.81	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	DB	807	GLU	CG-CD	5.80	1.60	1.51
12	EL	34	CYS	CB-SG	-5.78	1.72	1.81
1	FA	758	GLU	CB-CG	5.75	1.63	1.52
2	CB	10	GLN	CG-CD	5.69	1.64	1.51
9	FI	89	CYS	CB-SG	5.65	1.91	1.82
13	FM	9	GLU	CB-CG	5.62	1.62	1.52
2	DB	388	GLU	CG-CD	5.61	1.60	1.51
7	CO	283	GLU	CB-CG	5.57	1.62	1.52
2	FB	807	GLU	CG-CD	5.57	1.60	1.51
9	CI	13	CYS	CB-SG	-5.51	1.72	1.81
13	EM	9	GLU	CG-CD	5.48	1.60	1.51
2	DB	20	GLU	CB-CG	5.48	1.62	1.52
7	CO	283	GLU	CG-CD	5.47	1.60	1.51
2	EB	807	GLU	CG-CD	5.43	1.60	1.51
1	FA	65	CYS	CB-SG	-5.39	1.73	1.81
1	CA	65	CYS	CB-SG	-5.36	1.73	1.81
1	DA	65	CYS	CB-SG	-5.35	1.73	1.81
8	EH	36	CYS	CB-SG	-5.34	1.73	1.81
2	CB	807	GLU	CB-CG	5.31	1.62	1.52
12	BL	48	CYS	CB-SG	-5.31	1.73	1.81
2	CB	20	GLU	CG-CD	5.25	1.59	1.51
2	CB	388	GLU	CB-CG	5.23	1.62	1.52
1	CA	911	CYS	CB-SG	-5.23	1.73	1.81
13	EM	9	GLU	CB-CG	5.15	1.61	1.52
14	FN	100	THR	CA-CB	5.12	1.66	1.53
2	BB	388	GLU	CB-CG	5.11	1.61	1.52
9	BI	89	CYS	CB-SG	5.09	1.90	1.82
7	CO	299	GLU	CB-CG	5.08	1.61	1.52
9	CI	125	ASN	CB-CG	5.02	1.62	1.51
10	FJ	46	CYS	CB-SG	5.01	1.90	1.82

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	FG	11	ARG	NE-CZ-NH1	9.99	125.30	120.30
7	DG	11	ARG	NE-CZ-NH1	9.12	124.86	120.30
1	EA	75	HIS	CG-ND1-CE1	9.08	120.91	108.20
7	CG	11	ARG	NE-CZ-NH1	8.63	124.62	120.30
7	AG	11	ARG	NE-CZ-NH1	8.54	124.57	120.30
1	EA	75	HIS	N-CA-CB	8.50	125.89	110.60
7	EG	11	ARG	NE-CZ-NH1	7.71	124.15	120.30
5	CE	52	ARG	CB-CG-CD	6.74	129.13	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	DE	52	ARG	CB-CG-CD	6.38	128.19	111.60
7	FG	11	ARG	CB-CG-CD	6.38	128.18	111.60
7	EG	11	ARG	CB-CG-CD	5.95	127.07	111.60
2	DB	91	LEU	CA-CB-CG	5.76	128.54	115.30
2	CB	91	LEU	CB-CG-CD1	5.62	120.55	111.00
5	CE	52	ARG	CG-CD-NE	5.60	123.56	111.80
14	AN	56	ILE	CB-CA-C	-5.56	100.49	111.60
14	CN	56	ILE	CB-CA-C	-5.52	100.57	111.60
2	DB	903	ILE	CB-CA-C	-5.34	100.91	111.60
2	EB	91	LEU	CA-CB-CG	5.31	127.51	115.30
5	DE	52	ARG	CG-CD-NE	5.26	122.84	111.80
2	FB	903	ILE	CB-CA-C	-5.20	101.20	111.60
9	CI	99	LEU	CA-CB-CG	5.12	127.09	115.30
14	EN	56	ILE	CB-CA-C	-5.09	101.43	111.60
14	BN	56	ILE	CB-CA-C	-5.06	101.48	111.60

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	EA	75	HIS	Sidechain

## 5.2 Too-close contacts

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	AA	11703	0	11787	744	0
1	BA	11540	0	11624	709	0
1	CA	11695	0	11780	785	0
1	DA	11697	0	11775	791	0
1	EA	11706	0	11788	781	0
1	FA	11709	0	11790	792	0
2	AB	9187	0	9100	594	0
2	BB	9175	0	9074	571	0
2	CB	9304	0	9216	623	0
2	DB	9269	0	9175	644	0
2	EB	9265	0	9179	642	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	FB	9270	0	9180	644	0
3	AC	2413	0	2404	153	0
3	BC	2413	0	2404	145	0
3	CC	2413	0	2404	172	0
3	DC	2413	0	2404	170	0
3	EC	2413	0	2404	160	0
3	FC	2413	0	2404	161	0
4	AD	459	0	462	25	0
4	BD	459	0	462	32	0
4	CD	459	0	462	26	0
4	DD	459	0	462	26	0
4	ED	459	0	462	29	0
4	FD	459	0	462	32	0
5	AE	1760	0	1788	79	0
5	BE	1760	0	1788	84	0
5	CE	1760	0	1788	83	0
5	DE	1760	0	1788	98	0
5	EE	1760	0	1788	83	0
5	FE	1760	0	1788	101	0
6	AF	807	0	827	43	0
6	BF	807	0	827	43	0
6	CF	816	0	833	40	0
6	DF	816	0	833	37	0
6	EF	816	0	833	42	0
6	FF	816	0	833	39	0
7	AG	1599	0	1602	112	0
7	AO	413	0	389	47	0
7	BG	1539	0	1552	106	0
7	BO	404	0	383	47	0
7	CG	1599	0	1602	101	0
7	CO	398	0	378	42	0
7	DG	1599	0	1602	115	0
7	DO	413	0	389	34	0
7	EG	1599	0	1602	116	0
7	EO	413	0	389	47	0
7	FG	1599	0	1602	112	0
7	FO	413	0	389	38	0
8	AH	1063	0	1034	58	0
8	BH	1052	0	1021	59	0
8	CH	1052	0	1021	70	0
8	DH	1075	0	1046	72	0
8	EH	1075	0	1046	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	FH	1075	0	1046	63	0
9	AI	943	0	929	62	0
9	BI	716	0	709	37	0
9	CI	943	0	929	63	0
9	DI	943	0	929	64	0
9	EI	898	0	880	54	0
9	FI	943	0	929	65	0
10	AJ	558	0	572	42	0
10	BJ	569	0	585	37	0
10	CJ	558	0	572	43	0
10	DJ	569	0	585	39	0
10	EJ	558	0	572	35	0
10	FJ	558	0	572	39	0
11	AK	793	0	790	41	0
11	BK	786	0	782	42	0
11	CK	793	0	790	46	0
11	DK	793	0	790	50	0
11	EK	786	0	782	46	0
11	FK	786	0	782	45	0
12	AL	352	0	374	48	0
12	BL	352	0	374	25	0
12	CL	352	0	374	42	0
12	DL	352	0	374	42	0
12	EL	352	0	374	34	0
12	FL	352	0	374	45	0
13	AM	863	0	864	59	0
13	BM	863	0	864	77	0
13	CM	863	0	864	61	0
13	DM	863	0	864	58	0
13	EM	869	0	869	67	0
13	FM	869	0	869	71	0
14	AN	1127	0	1133	85	0
14	BN	1130	0	1138	79	0
14	CN	1137	0	1148	84	0
14	DN	1146	0	1153	78	0
14	EN	1140	0	1150	77	0
14	FN	1146	0	1155	78	0
15	AA	2	0	0	0	0
15	AB	1	0	0	0	0
15	AI	2	0	0	0	0
15	AJ	1	0	0	0	0
15	AL	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	BA	2	0	0	0	0
15	BB	1	0	0	0	0
15	BI	2	0	0	0	0
15	BJ	1	0	0	0	0
15	BL	1	0	0	0	0
15	CA	2	0	0	0	0
15	CB	1	0	0	0	0
15	CI	2	0	0	0	0
15	CJ	1	0	0	0	0
15	CL	1	0	0	0	0
15	DA	2	0	0	0	0
15	DB	1	0	0	0	0
15	DI	2	0	0	0	0
15	DJ	1	0	0	0	0
15	DL	1	0	0	0	0
15	EA	2	0	0	0	0
15	EB	1	0	0	0	0
15	EI	2	0	0	0	0
15	EJ	1	0	0	0	0
15	EL	1	0	0	0	0
15	FA	2	0	0	0	0
15	FB	1	0	0	0	0
15	FI	2	0	0	0	0
15	FJ	1	0	0	0	0
15	FL	1	0	0	0	0
All	All	204233	0	204265	11918	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 29.

All (11918) 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)
7:FG:11:ARG:HG2	7:FG:11:ARG:HH11	1.10	1.15
7:DG:11:ARG:HH11	7:DG:11:ARG:HG3	1.13	1.11
7:AG:11:ARG:HH11	7:AG:11:ARG:HG3	1.14	1.10
7:EG:11:ARG:HH11	7:EG:11:ARG:HG2	1.13	1.10
7:CG:11:ARG:HG3	7:CG:11:ARG:HH11	1.11	1.08
2:CB:935:ASP:OD1	3:CC:69:ARG:NH2	1.93	1.00
12:AL:34:CYS:HB3	12:AL:51:CYS:SG	2.02	0.99
1:EA:970:LYS:HG2	1:EA:973:GLU:HG2	1.45	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:49:LEU:HD11	7:BG:53:TYR:HB2	1.42	0.99
12:CL:34:CYS:HB3	12:CL:51:CYS:SG	2.02	0.99
2:FB:75:ASP:OD1	2:FB:93:ASN:ND2	1.96	0.99
3:EC:115:TRP:HA	3:EC:210:LEU:HD11	1.46	0.98
2:FB:699:ILE:HG12	2:FB:700:LEU:HD12	1.45	0.97
7:EG:49:LEU:HD11	7:EG:53:TYR:HB2	1.46	0.97
7:AG:49:LEU:HD11	7:AG:53:TYR:HB2	1.44	0.97
7:CG:49:LEU:HD11	7:CG:53:TYR:HB2	1.45	0.96
12:EL:34:CYS:HB3	12:EL:51:CYS:SG	2.05	0.96
1:AA:1243:TRP:O	1:AA:1517:ARG:NH1	1.98	0.96
1:DA:1202:LEU:HD22	9:DI:99:LEU:HD22	1.48	0.96
1:EA:429:THR:OG1	7:EO:273:VAL:HG11	1.66	0.96
12:BL:34:CYS:HB3	12:BL:51:CYS:SG	2.05	0.95
2:DB:360:VAL:HA	2:DB:370:LYS:HZ3	1.31	0.95
2:FB:655:TYR:HA	2:FB:688:HIS:HD2	1.32	0.95
2:DB:699:ILE:HG12	2:DB:700:LEU:HD12	1.49	0.95
1:FA:395:LEU:HD22	7:FO:276:LYS:HD3	1.47	0.94
2:EB:360:VAL:HA	2:EB:370:LYS:HZ3	1.29	0.94
2:EB:699:ILE:HG12	2:EB:700:LEU:HD12	1.49	0.94
2:AB:699:ILE:HG12	2:AB:700:LEU:HD12	1.50	0.94
12:DL:34:CYS:HB3	12:DL:51:CYS:SG	2.07	0.94
12:FL:34:CYS:HB3	12:FL:51:CYS:SG	2.08	0.94
7:CG:149:ILE:HG22	7:CG:150:HIS:HD2	1.34	0.93
1:EA:1033:SER:HB3	6:EF:139:PRO:HG2	1.50	0.93
5:AE:57:MET:N	5:AE:57:MET:SD	2.42	0.93
1:CA:1243:TRP:O	1:CA:1517:ARG:NH1	2.01	0.93
3:CC:115:TRP:HA	3:CC:210:LEU:HD11	1.49	0.93
1:DA:1202:LEU:HD13	9:DI:99:LEU:HD13	1.49	0.93
8:DH:5:LEU:HB2	8:DH:60:ALA:HA	1.49	0.93
2:DB:212:ASN:HD21	2:DB:239:VAL:HG22	1.32	0.93
7:FG:149:ILE:HG22	7:FG:150:HIS:HD2	1.34	0.93
3:AC:115:TRP:HA	3:AC:210:LEU:HD11	1.49	0.92
8:BH:5:LEU:HB2	8:BH:60:ALA:HA	1.51	0.92
1:AA:964:LYS:NZ	2:AB:672:MET:O	2.02	0.92
3:FC:115:TRP:HA	3:FC:210:LEU:HD11	1.50	0.92
7:DG:49:LEU:HD11	7:DG:53:TYR:HB2	1.49	0.92
7:FG:11:ARG:HG2	7:FG:11:ARG:NH1	1.78	0.92
7:CG:248:THR:OG1	7:CG:249:LEU:N	2.03	0.91
1:EA:680:LEU:HD21	1:EA:731:ILE:HD12	1.53	0.91
3:EC:100:ARG:NH1	3:EC:193:LEU:O	2.03	0.91
2:EB:212:ASN:HD21	2:EB:239:VAL:HG22	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:825:ALA:HB1	2:EB:776:ILE:HD11	1.50	0.91
1:BA:1243:TRP:O	1:BA:1517:ARG:NH1	2.04	0.91
2:BB:212:ASN:HD21	2:BB:239:VAL:HG22	1.31	0.91
1:DA:1243:TRP:O	1:DA:1517:ARG:NH1	2.04	0.90
1:FA:1243:TRP:O	1:FA:1517:ARG:NH1	2.03	0.90
8:FH:53:ASP:HB3	8:FH:55:LEU:HD11	1.53	0.90
2:AB:655:TYR:HA	2:AB:688:HIS:HD2	1.37	0.90
2:CB:893:ASN:O	2:CB:895:PHE:N	2.04	0.90
1:AA:475:ARG:HE	7:AO:316:GLU:HG2	1.37	0.90
2:CB:360:VAL:HA	2:CB:370:LYS:HZ1	1.35	0.90
1:CA:1287:ALA:HA	1:CA:1478:ALA:HB2	1.52	0.90
2:CB:699:ILE:HG12	2:CB:700:LEU:HD12	1.51	0.90
8:DH:53:ASP:HB3	8:DH:55:LEU:HD11	1.52	0.89
2:DB:935:ASP:OD1	3:DC:69:ARG:NH2	2.05	0.89
1:BA:719:ILE:HG12	8:BH:97:MET:HG2	1.54	0.89
2:AB:358:VAL:O	2:AB:370:LYS:NZ	2.05	0.89
1:EA:1243:TRP:O	1:EA:1517:ARG:NH1	2.06	0.89
3:CC:32:ASN:HB2	3:CC:35:LYS:HE3	1.52	0.89
2:CB:804:TYR:HB3	2:CB:904:LYS:HD3	1.54	0.89
1:DA:1225:ILE:HD13	1:DA:1566:ILE:HG23	1.53	0.89
7:EG:248:THR:OG1	7:EG:249:LEU:N	2.06	0.89
3:FC:100:ARG:NH1	3:FC:193:LEU:O	2.05	0.89
1:FA:1059:LYS:HD2	1:FA:1177:SER:HA	1.55	0.88
3:BC:115:TRP:HA	3:BC:210:LEU:HD11	1.52	0.88
14:EN:78:THR:HB	14:EN:89:ILE:HB	1.55	0.88
7:FG:248:THR:OG1	7:FG:249:LEU:N	2.03	0.88
1:CA:1291:VAL:HG13	1:CA:1473:LYS:HB2	1.54	0.88
1:DA:429:THR:HG21	7:DO:274:SER:HB3	1.54	0.88
7:FG:43:ILE:HD11	7:FG:120:VAL:HG12	1.55	0.88
1:AA:1225:ILE:HD13	1:AA:1566:ILE:HG23	1.54	0.88
7:BG:248:THR:OG1	7:BG:249:LEU:N	2.07	0.88
7:DG:11:ARG:HG3	7:DG:11:ARG:NH1	1.84	0.88
12:DL:34:CYS:CB	12:DL:51:CYS:SG	2.62	0.88
1:FA:1291:VAL:HG13	1:FA:1473:LYS:HB2	1.55	0.88
7:FG:49:LEU:HD11	7:FG:53:TYR:HB2	1.54	0.88
1:CA:477:ASN:O	2:CB:1091:ARG:NH2	2.06	0.88
1:CA:1225:ILE:HD13	1:CA:1566:ILE:HG23	1.54	0.88
2:EB:935:ASP:OD1	3:EC:69:ARG:NH2	2.07	0.88
2:EB:1052:VAL:HA	2:EB:1059:PRO:HA	1.53	0.88
1:DA:477:ASN:OD1	2:DB:1047:ARG:NH1	2.07	0.87
1:BA:964:LYS:NZ	2:BB:672:MET:O	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:212:ASN:HD21	2:CB:239:VAL:HG22	1.39	0.87
7:CG:11:ARG:HG3	7:CG:11:ARG:NH1	1.84	0.87
7:AG:248:THR:OG1	7:AG:249:LEU:N	2.02	0.87
1:BA:425:ASN:HD21	7:BO:274:SER:HB2	1.39	0.87
2:EB:811:LEU:HD13	2:EB:823:GLN:HE21	1.40	0.87
1:EA:1291:VAL:HG13	1:EA:1473:LYS:HB2	1.57	0.87
1:BA:1292:ILE:HD11	1:BA:1473:LYS:H	1.40	0.87
5:DE:5:ASN:HD21	5:DE:52:ARG:HH21	1.20	0.87
12:CL:47:ARG:HB3	12:CL:54:ARG:HG3	1.55	0.87
3:DC:115:TRP:HA	3:DC:210:LEU:HD11	1.56	0.87
2:FB:212:ASN:HD21	2:FB:239:VAL:HG22	1.38	0.87
1:AA:1059:LYS:HD2	1:AA:1177:SER:HA	1.57	0.87
1:BA:1225:ILE:HD13	1:BA:1566:ILE:HG23	1.57	0.87
7:BG:43:ILE:HD11	7:BG:120:VAL:HG12	1.56	0.87
13:CM:10:ILE:HD11	14:CN:72:VAL:HB	1.57	0.87
3:DC:126:PHE:HA	3:DC:130:ASN:HD22	1.39	0.87
2:FB:850:THR:H	2:FB:882:ILE:HG13	1.39	0.87
2:AB:850:THR:H	2:AB:882:ILE:HG13	1.40	0.86
13:AM:10:ILE:HD11	14:AN:72:VAL:HB	1.57	0.86
3:CC:126:PHE:HA	3:CC:130:ASN:HD22	1.39	0.86
1:FA:1273:THR:HA	9:FI:48:VAL:HG22	1.57	0.86
3:EC:69:ARG:O	3:EC:73:SER:OG	1.93	0.86
2:BB:804:TYR:HB3	2:BB:904:LYS:HD3	1.56	0.86
3:BC:32:ASN:HB2	3:BC:35:LYS:HE3	1.57	0.86
7:AG:43:ILE:HD11	7:AG:120:VAL:HG12	1.56	0.86
3:DC:32:ASN:HB2	3:DC:35:LYS:HE3	1.57	0.86
7:EG:11:ARG:HG2	7:EG:11:ARG:NH1	1.80	0.86
8:CH:5:LEU:HB2	8:CH:60:ALA:HA	1.56	0.86
1:DA:964:LYS:NZ	2:DB:672:MET:O	2.09	0.86
1:EA:1261:VAL:C	1:EA:1262:LEU:N	2.28	0.86
1:DA:1292:ILE:HD11	1:DA:1473:LYS:H	1.38	0.86
7:AO:272:ILE:O	7:AO:275:ASN:ND2	2.09	0.86
1:CA:729:LYS:HD2	8:CH:120:GLY:HA3	1.58	0.86
2:DB:358:VAL:O	2:DB:370:LYS:NZ	2.08	0.86
3:DC:100:ARG:NH1	3:DC:193:LEU:O	2.08	0.86
13:FM:10:ILE:HD11	14:FN:72:VAL:HB	1.56	0.86
7:AG:11:ARG:HG3	7:AG:11:ARG:NH1	1.84	0.86
3:AC:100:ARG:NH1	3:AC:193:LEU:O	2.08	0.86
1:EA:1251:ALA:O	1:EA:1254:PHE:N	2.09	0.86
3:BC:100:ARG:NH1	3:BC:193:LEU:O	2.08	0.85
12:EL:47:ARG:HB3	12:EL:54:ARG:HG3	1.58	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:843:ARG:NH1	2:EB:988:GLU:OE2	2.09	0.85
7:AG:35:SER:OG	7:AG:132:VAL:O	1.95	0.85
12:EL:34:CYS:CB	12:EL:51:CYS:SG	2.63	0.85
7:EO:272:ILE:HG23	7:EO:275:ASN:HB2	1.58	0.85
1:FA:1456:PHE:HB3	1:FA:1474:LEU:HD11	1.58	0.85
3:CC:100:ARG:NH1	3:CC:193:LEU:O	2.09	0.85
1:DA:76:GLN:HE22	2:DB:1111:LEU:HD12	1.41	0.85
2:DB:811:LEU:HD13	2:DB:823:GLN:HE21	1.42	0.85
8:EH:5:LEU:HB2	8:EH:60:ALA:HA	1.58	0.85
2:FB:360:VAL:HA	2:FB:370:LYS:HZ1	1.40	0.85
1:AA:120:CYS:HB3	1:AA:189:VAL:HG21	1.59	0.85
1:AA:843:ARG:NH1	2:AB:988:GLU:OE2	2.10	0.85
6:CF:110:ASP:N	6:CF:110:ASP:OD1	2.10	0.85
7:DG:43:ILE:HD11	7:DG:120:VAL:HG12	1.58	0.85
3:AC:103:LEU:O	10:AJ:6:ARG:NH2	2.07	0.85
1:CA:970:LYS:HG2	1:CA:973:GLU:HG2	1.59	0.85
2:CB:655:TYR:HA	2:CB:688:HIS:HD2	1.41	0.85
2:EB:132:SER:HB2	2:EB:134:ARG:HD3	1.57	0.85
2:AB:360:VAL:HA	2:AB:370:LYS:HZ1	1.41	0.85
2:AB:520:LEU:HD21	2:AB:530:PRO:HA	1.59	0.85
14:CN:78:THR:HB	14:CN:89:ILE:HB	1.58	0.85
1:DA:477:ASN:O	2:DB:1091:ARG:NH2	2.09	0.85
1:FA:1033:SER:HB3	6:FF:139:PRO:HG2	1.59	0.85
14:FN:78:THR:HB	14:FN:89:ILE:HB	1.59	0.85
2:CB:1017:ALA:O	3:CC:65:ASN:ND2	2.10	0.84
1:FA:794:VAL:HG23	1:FA:795:HIS:H	1.41	0.84
1:AA:1033:SER:HB3	6:AF:139:PRO:HG2	1.59	0.84
11:AK:89:CYS:SG	11:AK:90:GLY:N	2.50	0.84
8:EH:93:TYR:HA	8:EH:145:ARG:HG3	1.58	0.84
2:FB:358:VAL:O	2:FB:370:LYS:NZ	2.10	0.84
7:FO:265:SER:OG	7:FO:266:GLN:N	1.98	0.84
8:AH:93:TYR:HA	8:AH:145:ARG:HG3	1.59	0.84
14:AN:179:ASP:HB2	14:AN:180:PHE:CE1	2.12	0.84
1:DA:1291:VAL:HG13	1:DA:1473:LYS:HB2	1.59	0.84
2:DB:850:THR:H	2:DB:882:ILE:HG13	1.40	0.84
4:DD:44:ILE:HD13	4:DD:90:LYS:HG3	1.59	0.84
5:EE:198:ILE:HD11	5:EE:212:ARG:HG2	1.59	0.84
1:BA:477:ASN:OD1	2:BB:1047:ARG:NH1	2.10	0.84
1:FA:477:ASN:OD1	2:FB:1047:ARG:NH1	2.11	0.84
5:CE:57:MET:SD	5:CE:57:MET:N	2.48	0.84
7:CG:35:SER:OG	7:CG:132:VAL:O	1.95	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:719:ILE:HG12	8:EH:97:MET:HG2	1.59	0.84
1:AA:1291:VAL:HG13	1:AA:1473:LYS:HB2	1.60	0.84
14:CN:179:ASP:HB2	14:CN:180:PHE:CE1	2.12	0.84
1:FA:964:LYS:NZ	2:FB:672:MET:O	2.09	0.84
8:AH:53:ASP:HB3	8:AH:55:LEU:HD11	1.57	0.84
1:CA:825:ALA:HB1	2:CB:776:ILE:HD11	1.60	0.84
1:DA:1059:LYS:HD2	1:DA:1177:SER:HA	1.58	0.84
7:DG:248:THR:OG1	7:DG:249:LEU:N	2.08	0.84
1:EA:794:VAL:HG23	1:EA:795:HIS:H	1.41	0.84
2:EB:850:THR:H	2:EB:882:ILE:HG13	1.40	0.84
2:CB:397:THR:HB	2:CB:666:PRO:HB3	1.60	0.84
3:CC:84:TYR:O	3:CC:204:LEU:HB2	1.77	0.84
1:EA:1456:PHE:HB3	1:EA:1474:LEU:HD11	1.58	0.84
2:CB:132:SER:HB2	2:CB:134:ARG:HD3	1.60	0.83
2:FB:935:ASP:OD1	3:FC:69:ARG:NH2	2.11	0.83
13:EM:12:ILE:HG21	14:EN:68:LYS:HA	1.58	0.83
2:EB:358:VAL:O	2:EB:370:LYS:NZ	2.10	0.83
1:CA:120:CYS:HB3	1:CA:189:VAL:HG21	1.60	0.83
1:CA:1059:LYS:HD2	1:CA:1177:SER:HA	1.61	0.83
2:CB:203:ILE:HD13	2:CB:405:GLY:HA3	1.59	0.83
2:EB:804:TYR:HB3	2:EB:904:LYS:HD3	1.60	0.83
2:AB:1017:ALA:O	3:AC:65:ASN:ND2	2.11	0.83
2:CB:929:ARG:NH2	11:CK:97:SER:OG	2.11	0.83
7:EO:266:GLN:O	7:EO:269:SER:N	2.11	0.83
2:BB:132:SER:HB2	2:BB:134:ARG:HD3	1.60	0.83
1:DA:794:VAL:HG23	1:DA:795:HIS:H	1.43	0.83
7:BG:149:ILE:HG22	7:BG:150:HIS:HD2	1.44	0.83
7:CO:273:VAL:O	7:CO:275:ASN:N	2.11	0.83
2:DB:655:TYR:HA	2:DB:688:HIS:HD2	1.42	0.83
5:DE:57:MET:N	5:DE:57:MET:SD	2.52	0.83
8:BH:53:ASP:HB3	8:BH:55:LEU:HD11	1.60	0.83
1:CA:1456:PHE:HB3	1:CA:1474:LEU:HD11	1.60	0.83
7:AG:149:ILE:HG22	7:AG:150:HIS:HD2	1.42	0.83
1:CA:1251:ALA:O	1:CA:1254:PHE:N	2.12	0.83
8:CH:53:ASP:HB3	8:CH:55:LEU:HD11	1.59	0.83
11:CK:88:PHE:HB3	11:CK:106:GLN:HB2	1.61	0.83
1:DA:1456:PHE:HB3	1:DA:1474:LEU:HD11	1.60	0.83
1:BA:1291:VAL:HG13	1:BA:1473:LYS:HB2	1.61	0.83
2:BB:699:ILE:HG12	2:BB:700:LEU:HD12	1.61	0.83
3:CC:103:LEU:O	10:CJ:6:ARG:NH2	2.12	0.83
1:AA:794:VAL:HG23	1:AA:795:HIS:H	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:360:VAL:HA	2:BB:370:LYS:HZ1	1.44	0.82
12:BL:47:ARG:HB3	12:BL:54:ARG:HG3	1.61	0.82
2:CB:358:VAL:O	2:CB:370:LYS:NZ	2.11	0.82
3:DC:83:VAL:HG13	3:DC:206:ALA:HB2	1.61	0.82
1:EA:1059:LYS:HD2	1:EA:1177:SER:HA	1.60	0.82
1:FA:843:ARG:NH1	2:FB:988:GLU:OE2	2.11	0.82
7:FG:35:SER:OG	7:FG:132:VAL:O	1.95	0.82
2:BB:1060:VAL:HG23	7:BO:314:THR:HG23	1.58	0.82
2:EB:73:ILE:HG13	2:EB:429:ARG:HH22	1.45	0.82
8:EH:53:ASP:HB3	8:EH:55:LEU:HD11	1.60	0.82
1:FA:970:LYS:HG2	1:FA:973:GLU:HG2	1.60	0.82
1:FA:1251:ALA:O	1:FA:1254:PHE:N	2.12	0.82
8:AH:5:LEU:HB2	8:AH:60:ALA:HA	1.62	0.82
12:AL:63:ARG:HG2	12:AL:64:LEU:H	1.42	0.82
3:EC:84:TYR:O	3:EC:204:LEU:HB2	1.80	0.82
7:EG:35:SER:OG	7:EG:132:VAL:O	1.97	0.82
1:FA:120:CYS:HB3	1:FA:189:VAL:HG21	1.62	0.82
5:FE:5:ASN:HD21	5:FE:52:ARG:HH21	1.26	0.82
1:AA:477:ASN:O	2:AB:1091:ARG:NH2	2.12	0.82
11:AK:88:PHE:HB3	11:AK:106:GLN:HB2	1.62	0.82
1:CA:680:LEU:HD21	1:CA:731:ILE:HD12	1.59	0.82
2:CB:850:THR:H	2:CB:882:ILE:HG13	1.42	0.82
2:EB:520:LEU:HD21	2:EB:530:PRO:HA	1.59	0.82
14:DN:78:THR:HB	14:DN:89:ILE:HB	1.60	0.82
1:AA:611:GLU:OE1	1:AA:615:ARG:NH1	2.13	0.82
1:BA:1456:PHE:HB3	1:BA:1474:LEU:HD11	1.61	0.82
5:FE:57:MET:SD	5:FE:57:MET:N	2.53	0.82
1:BA:970:LYS:HG2	1:BA:973:GLU:HG2	1.60	0.82
1:DA:1251:ALA:O	1:DA:1254:PHE:N	2.12	0.82
6:EF:110:ASP:N	6:EF:110:ASP:OD1	2.13	0.82
1:FA:835:LEU:HG	1:FA:985:ARG:HH12	1.44	0.82
14:AN:78:THR:HB	14:AN:89:ILE:HB	1.62	0.82
1:BA:1059:LYS:HD2	1:BA:1177:SER:HA	1.62	0.82
1:DA:669:LEU:HD12	1:DA:786:TYR:HD1	1.44	0.82
1:FA:1292:ILE:HD11	1:FA:1473:LYS:H	1.42	0.82
2:CB:94:LYS:HB3	2:CB:146:ASN:HA	1.61	0.82
2:DB:804:TYR:HB3	2:DB:904:LYS:HD3	1.59	0.82
1:FA:1276:THR:HG23	1:FA:1288:ARG:HH11	1.43	0.82
1:BA:835:LEU:HG	1:BA:985:ARG:HH12	1.43	0.81
3:BC:126:PHE:HA	3:BC:130:ASN:HD22	1.45	0.81
1:DA:970:LYS:HG2	1:DA:973:GLU:HG2	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:FL:47:ARG:HB3	12:FL:54:ARG:HG3	1.62	0.81
1:BA:1033:SER:HB3	6:BF:139:PRO:HG2	1.60	0.81
2:CB:520:LEU:HD21	2:CB:530:PRO:HA	1.61	0.81
7:EG:149:ILE:HG22	7:EG:150:HIS:HD2	1.45	0.81
2:AB:212:ASN:HD21	2:AB:239:VAL:HG22	1.43	0.81
2:AB:929:ARG:NH2	11:AK:97:SER:OG	2.13	0.81
13:BM:40:LEU:HD11	13:BM:51:PHE:HB3	1.62	0.81
8:CH:93:TYR:HA	8:CH:145:ARG:HG3	1.60	0.81
2:DB:651:ARG:NH2	2:DB:690:GLU:OE1	2.13	0.81
1:CA:794:VAL:HG23	1:CA:795:HIS:H	1.43	0.81
1:CA:1246:VAL:HG13	1:CA:1250:GLN:HB3	1.59	0.81
3:AC:100:ARG:O	3:AC:103:LEU:N	2.14	0.81
7:DG:149:ILE:HG22	7:DG:150:HIS:HD2	1.42	0.81
2:FB:1017:ALA:O	3:FC:65:ASN:ND2	2.14	0.81
2:BB:94:LYS:HB3	2:BB:146:ASN:HA	1.60	0.81
2:BB:358:VAL:O	2:BB:370:LYS:NZ	2.14	0.81
2:BB:520:LEU:HD21	2:BB:530:PRO:HA	1.62	0.81
10:BJ:10:CYS:SG	10:BJ:43:ARG:NH1	2.54	0.81
1:AA:715:LEU:HD22	1:AA:716:PRO:HD2	1.61	0.81
7:BG:35:SER:OG	7:BG:132:VAL:O	1.98	0.81
1:EA:1225:ILE:HD13	1:EA:1566:ILE:HG23	1.62	0.81
2:FB:929:ARG:NH2	11:FK:97:SER:OG	2.13	0.81
1:AA:124:LEU:HD11	1:AA:189:VAL:HG22	1.63	0.81
1:BA:825:ALA:HB1	2:BB:776:ILE:HD11	1.62	0.81
2:BB:655:TYR:HA	2:BB:688:HIS:HD2	1.45	0.81
3:AC:32:ASN:HB2	3:AC:35:LYS:HE3	1.63	0.81
1:BA:477:ASN:O	2:BB:1091:ARG:NH2	2.14	0.81
6:BF:110:ASP:OD1	6:BF:110:ASP:N	2.14	0.81
14:DN:40:LEU:HA	14:DN:51:GLN:HE22	1.43	0.81
1:BA:124:LEU:HD11	1:BA:189:VAL:HG22	1.63	0.80
3:BC:228:ARG:NH1	14:BN:173:THR:OG1	2.15	0.80
1:EA:818:THR:HG23	2:EB:780:GLY:HA3	1.63	0.80
2:EB:203:ILE:HD13	2:EB:405:GLY:HA3	1.63	0.80
9:EI:109:THR:OG1	9:EI:124:ASN:ND2	2.14	0.80
3:FC:125:LYS:O	3:FC:130:ASN:ND2	2.15	0.80
3:DC:84:TYR:O	3:DC:204:LEU:HB2	1.81	0.80
12:DL:63:ARG:HG2	12:DL:64:LEU:H	1.43	0.80
2:FB:1052:VAL:HA	2:FB:1059:PRO:HA	1.63	0.80
11:FK:112:THR:N	11:FK:115:ASP:OD2	2.13	0.80
1:EA:120:CYS:HB3	1:EA:189:VAL:HG21	1.63	0.80
3:FC:103:LEU:O	10:FJ:6:ARG:NH2	2.13	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:477:ASN:OD1	2:CB:1047:ARG:NH1	2.14	0.80
3:EC:126:PHE:HA	3:EC:130:ASN:HD22	1.45	0.80
13:AM:40:LEU:HD11	13:AM:51:PHE:HB3	1.63	0.80
14:BN:78:THR:HB	14:BN:89:ILE:HB	1.64	0.80
3:FC:83:VAL:HG13	3:FC:206:ALA:HB2	1.63	0.80
8:FH:5:LEU:HB2	8:FH:60:ALA:HA	1.63	0.80
1:AA:1513:GLU:O	1:AA:1515:GLY:N	2.15	0.80
11:AK:54:THR:HG22	11:AK:61:ALA:HA	1.62	0.80
2:DB:520:LEU:HD21	2:DB:530:PRO:HA	1.63	0.80
1:FA:611:GLU:OE1	1:FA:615:ARG:NH1	2.14	0.80
8:AH:55:LEU:HD23	8:AH:146:ARG:HG2	1.64	0.80
1:BA:1617:THR:HB	1:BA:1620:GLN:HG2	1.64	0.80
2:AB:1041:ASN:O	2:AB:1043:LYS:N	2.15	0.80
3:EC:228:ARG:NH1	14:EN:173:THR:OG1	2.15	0.80
8:FH:55:LEU:HD23	8:FH:146:ARG:HG2	1.62	0.80
1:DA:1276:THR:HG23	1:DA:1288:ARG:HH11	1.47	0.80
1:EA:966:LEU:HG	1:EA:968:SER:H	1.45	0.80
6:AF:110:ASP:OD1	6:AF:110:ASP:N	2.13	0.80
1:BA:1251:ALA:O	1:BA:1254:PHE:N	2.14	0.80
1:CA:1292:ILE:HD11	1:CA:1473:LYS:H	1.46	0.80
5:CE:41:ASP:OD1	5:CE:41:ASP:N	2.15	0.80
1:DA:120:CYS:HB3	1:DA:189:VAL:HG21	1.64	0.80
2:DB:1041:ASN:O	2:DB:1043:LYS:N	2.15	0.80
1:EA:477:ASN:OD1	2:EB:1047:ARG:NH1	2.14	0.80
1:EA:964:LYS:NZ	2:EB:672:MET:O	2.15	0.80
1:AA:76:GLN:HE22	2:AB:1111:LEU:HD12	1.46	0.79
2:AB:161:LEU:HD12	2:AB:162:PRO:HD2	1.64	0.79
1:CA:835:LEU:HG	1:CA:985:ARG:HH12	1.47	0.79
7:DG:35:SER:OG	7:DG:132:VAL:O	2.01	0.79
1:FA:1305:GLU:HG3	9:FI:60:LEU:HG	1.64	0.79
3:AC:83:VAL:HG13	3:AC:206:ALA:HB2	1.63	0.79
3:CC:69:ARG:O	3:CC:73:SER:OG	2.00	0.79
1:AA:825:ALA:HB1	2:AB:776:ILE:HD11	1.64	0.79
11:CK:54:THR:HG22	11:CK:61:ALA:HA	1.65	0.79
1:DA:560:GLN:O	1:DA:575:LYS:NZ	2.14	0.79
2:DB:132:SER:HB2	2:DB:134:ARG:HD3	1.64	0.79
2:EB:893:ASN:O	2:EB:895:PHE:N	2.15	0.79
1:BA:76:GLN:HE22	2:BB:1111:LEU:HD12	1.47	0.79
2:CB:885:VAL:HG11	12:CL:58:LYS:HB3	1.64	0.79
2:CB:897:GLU:HB3	12:CL:43:THR:HG23	1.62	0.79
7:CG:40:ARG:NH1	7:CG:123:TYR:OH	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DO:301:LYS:HA	7:DO:307:GLU:HA	1.65	0.79
1:EA:936:SER:HB2	9:EI:112:TYR:OH	1.81	0.79
3:FC:84:TYR:O	3:FC:204:LEU:HB2	1.82	0.79
2:CB:811:LEU:HD13	2:CB:823:GLN:HE21	1.48	0.79
13:DM:32:ALA:HB3	14:DN:121:ILE:HD11	1.64	0.79
3:FC:69:ARG:O	3:FC:73:SER:OG	1.99	0.79
6:FF:110:ASP:N	6:FF:110:ASP:OD1	2.15	0.79
1:AA:970:LYS:HG2	1:AA:973:GLU:HG2	1.62	0.79
2:BB:850:THR:H	2:BB:882:ILE:HG13	1.46	0.79
8:CH:55:LEU:HD23	8:CH:146:ARG:HG2	1.65	0.79
11:DK:88:PHE:HB3	11:DK:106:GLN:HB2	1.65	0.79
3:EC:83:VAL:HG13	3:EC:206:ALA:HB2	1.64	0.79
3:EC:125:LYS:O	3:EC:130:ASN:ND2	2.16	0.79
7:EG:153:PHE:HB3	7:EG:243:VAL:HG21	1.63	0.79
10:FJ:10:CYS:SG	10:FJ:43:ARG:NH1	2.55	0.79
1:AA:835:LEU:HG	1:AA:985:ARG:HH12	1.46	0.79
1:BA:794:VAL:HG23	1:BA:795:HIS:H	1.47	0.79
1:FA:1657:LEU:HD11	6:FF:135:ARG:HB2	1.65	0.79
3:AC:69:ARG:O	3:AC:73:SER:OG	2.00	0.79
12:AL:47:ARG:HB3	12:AL:54:ARG:HG3	1.65	0.79
14:DN:93:THR:HG23	14:DN:99:LEU:HD11	1.64	0.79
1:EA:956:ARG:HE	1:EA:979:GLY:HA3	1.48	0.79
5:BE:5:ASN:HD21	5:BE:52:ARG:HH21	1.30	0.79
8:CH:5:LEU:HD22	8:CH:135:LEU:HD23	1.63	0.79
1:FA:966:LEU:HG	1:FA:968:SER:H	1.48	0.79
2:FB:203:ILE:HD13	2:FB:405:GLY:HA3	1.64	0.79
2:BB:970:LYS:NZ	2:BB:1011:GLU:OE2	2.13	0.78
3:EC:103:LEU:O	10:EJ:6:ARG:NH2	2.15	0.78
2:AB:804:TYR:HB3	2:AB:904:LYS:HD3	1.65	0.78
1:CA:699:CYS:SG	1:CA:700:ILE:N	2.56	0.78
5:DE:136:ASN:OD1	5:DE:138:ALA:N	2.16	0.78
13:DM:12:ILE:HG21	14:DN:68:LYS:HA	1.65	0.78
1:EA:124:LEU:HD11	1:EA:189:VAL:HG22	1.64	0.78
2:FB:132:SER:HB2	2:FB:134:ARG:HD3	1.66	0.78
3:AC:84:TYR:O	3:AC:204:LEU:HB2	1.82	0.78
3:BC:84:TYR:O	3:BC:204:LEU:HB2	1.83	0.78
2:DB:929:ARG:NH2	11:DK:97:SER:OG	2.16	0.78
1:AA:1484:LEU:HG	2:AB:308:LEU:HD11	1.66	0.78
2:AB:935:ASP:OD1	3:AC:69:ARG:NH2	2.16	0.78
2:CB:73:ILE:HG13	2:CB:429:ARG:HH22	1.49	0.78
2:CB:612:LYS:NZ	2:CB:624:LEU:O	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:524:ILE:O	1:DA:554:ARG:NH1	2.16	0.78
2:DB:94:LYS:HB3	2:DB:146:ASN:HA	1.65	0.78
2:FB:848:ILE:HD11	12:FL:58:LYS:HD3	1.64	0.78
7:FG:45:LEU:HD11	7:FG:118:CYS:HB2	1.65	0.78
1:AA:1456:PHE:HB3	1:AA:1474:LEU:HD11	1.64	0.78
2:DB:1052:VAL:HA	2:DB:1059:PRO:HA	1.65	0.78
3:EC:32:ASN:HB2	3:EC:35:LYS:HE3	1.64	0.78
1:FA:1225:ILE:HD13	1:FA:1566:ILE:HG23	1.64	0.78
7:CG:43:ILE:HD11	7:CG:120:VAL:HG12	1.64	0.78
5:FE:198:ILE:HD11	5:FE:212:ARG:HG2	1.65	0.78
1:AA:211:THR:HB	5:AE:173:SER:HB2	1.65	0.78
1:EA:1292:ILE:HD11	1:EA:1473:LYS:H	1.47	0.78
1:FA:11:ILE:HG21	2:FB:1198:TYR:HB2	1.65	0.78
1:FA:1202:LEU:HD13	9:FI:99:LEU:HD13	1.65	0.78
3:FC:228:ARG:NH1	14:FN:173:THR:OG1	2.16	0.78
1:AA:680:LEU:HD21	1:AA:731:ILE:HD12	1.65	0.78
1:AA:1292:ILE:HD11	1:AA:1473:LYS:H	1.49	0.78
1:AA:1344:ILE:HG22	2:AB:334:PHE:HE2	1.47	0.78
2:CB:651:ARG:NH2	2:CB:690:GLU:OE1	2.16	0.78
2:BB:396:ALA:HB1	2:BB:523:GLU:HG3	1.66	0.78
1:EA:1246:VAL:HG13	1:EA:1250:GLN:HB3	1.64	0.78
2:EB:94:LYS:HB3	2:EB:146:ASN:HA	1.66	0.78
2:EB:655:TYR:HA	2:EB:688:HIS:HD2	1.47	0.78
1:FA:825:ALA:HB1	2:FB:776:ILE:HD11	1.63	0.78
2:CB:848:ILE:HG13	12:CL:60:ARG:HA	1.66	0.78
1:FA:124:LEU:HD11	1:FA:189:VAL:HG22	1.65	0.78
7:BG:153:PHE:HB3	7:BG:243:VAL:HG21	1.64	0.77
1:CA:1657:LEU:HD11	6:CF:135:ARG:HB2	1.66	0.77
3:EC:135:SER:HA	3:EC:205:LYS:HA	1.65	0.77
8:FH:93:TYR:HA	8:FH:145:ARG:HG3	1.65	0.77
2:AB:132:SER:HB2	2:AB:134:ARG:HD3	1.64	0.77
1:BA:120:CYS:HB3	1:BA:189:VAL:HG21	1.66	0.77
3:CC:83:VAL:HG13	3:CC:206:ALA:HB2	1.63	0.77
2:BB:1041:ASN:O	2:BB:1043:LYS:N	2.18	0.77
2:BB:1052:VAL:HA	2:BB:1059:PRO:HA	1.65	0.77
2:CB:138:LEU:HD22	2:CB:157:ASP:HA	1.64	0.77
5:FE:136:ASN:OD1	5:FE:138:ALA:N	2.16	0.77
12:CL:63:ARG:HG2	12:CL:64:LEU:H	1.50	0.77
2:DB:161:LEU:HD12	2:DB:162:PRO:HD2	1.66	0.77
1:EA:669:LEU:HD12	1:EA:786:TYR:HD1	1.48	0.77
14:FN:87:TYR:HB3	14:FN:139:VAL:HG12	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:105:ILE:HG12	7:AG:116:THR:HB	1.66	0.77
1:DA:124:LEU:HD11	1:DA:189:VAL:HG22	1.67	0.77
8:DH:93:TYR:HA	8:DH:145:ARG:HG3	1.66	0.77
1:DA:966:LEU:HG	1:DA:968:SER:H	1.48	0.77
1:DA:1617:THR:HB	1:DA:1620:GLN:HG2	1.67	0.77
13:DM:40:LEU:HD11	13:DM:51:PHE:HB3	1.67	0.77
2:FB:1041:ASN:O	2:FB:1043:LYS:N	2.17	0.77
2:AB:1052:VAL:HA	2:AB:1059:PRO:HA	1.65	0.77
2:EB:533:THR:OG1	2:EB:542:LEU:O	2.01	0.77
1:AA:422:ARG:HD3	7:AO:272:ILE:HG13	1.66	0.77
1:BA:669:LEU:HD12	1:BA:786:TYR:HD1	1.50	0.77
2:BB:1110:ILE:H	2:BB:1111:LEU:HD23	1.49	0.77
2:DB:12:ARG:HH22	2:DB:17:ARG:HH22	1.33	0.77
5:DE:6:GLU:HA	5:DE:9:ILE:HB	1.66	0.77
1:FA:964:LYS:HZ1	1:FA:967:PRO:HA	1.49	0.77
1:FA:1553:TYR:HD1	5:FE:144:ILE:HB	1.50	0.77
7:DG:153:PHE:HB3	7:DG:243:VAL:HG21	1.67	0.77
1:EA:809:VAL:O	1:EA:813:LEU:HG	1.84	0.77
2:EB:397:THR:HB	2:EB:666:PRO:HB3	1.65	0.77
2:FB:127:ARG:NH1	2:FB:185:GLU:OE2	2.18	0.77
2:FB:397:THR:HB	2:FB:666:PRO:HB3	1.66	0.77
12:FL:34:CYS:CB	12:FL:51:CYS:SG	2.67	0.77
2:BB:162:PRO:HG3	2:BB:462:GLN:HG3	1.67	0.76
2:BB:203:ILE:HD13	2:BB:405:GLY:HA3	1.65	0.76
13:CM:12:ILE:HG21	14:CN:68:LYS:HA	1.67	0.76
7:CO:274:SER:OG	7:CO:275:ASN:OD1	2.03	0.76
3:EC:100:ARG:O	3:EC:103:LEU:N	2.17	0.76
1:FA:956:ARG:HE	1:FA:979:GLY:HA3	1.51	0.76
1:CA:966:LEU:HG	1:CA:968:SER:H	1.50	0.76
2:DB:728:THR:OG1	2:DB:766:PRO:O	2.04	0.76
3:EC:328:LEU:HB3	11:EK:121:LEU:HD11	1.66	0.76
2:FB:884:GLU:O	2:FB:903:ILE:HG22	1.86	0.76
2:FB:885:VAL:HG11	12:FL:58:LYS:HB3	1.67	0.76
5:FE:6:GLU:HA	5:FE:9:ILE:HB	1.67	0.76
11:BK:88:PHE:HB3	11:BK:106:GLN:HB2	1.67	0.76
1:CA:1202:LEU:HD13	9:CI:99:LEU:HD13	1.68	0.76
2:EB:929:ARG:NH2	11:EK:97:SER:OG	2.17	0.76
1:FA:1513:GLU:O	1:FA:1515:GLY:N	2.18	0.76
2:FB:811:LEU:HD13	2:FB:823:GLN:HE21	1.50	0.76
1:AA:477:ASN:OD1	2:AB:1047:ARG:NH1	2.18	0.76
2:AB:588:ILE:O	2:AB:591:LYS:HG2	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:966:LEU:HG	1:BA:968:SER:H	1.50	0.76
1:BA:1050:TYR:HB3	1:BA:1054:ALA:HA	1.65	0.76
3:DC:69:ARG:O	3:DC:73:SER:OG	2.02	0.76
7:EG:43:ILE:HD11	7:EG:120:VAL:HG12	1.66	0.76
1:FA:818:THR:HG23	2:FB:780:GLY:HA3	1.68	0.76
1:AA:1657:LEU:HD11	6:AF:135:ARG:HB2	1.66	0.76
1:BA:1287:ALA:HB1	1:BA:1478:ALA:HB2	1.67	0.76
1:EA:856:GLU:OE1	1:EA:857:ALA:N	2.19	0.76
3:EC:174:ARG:O	3:EC:178:THR:OG1	2.02	0.76
2:FB:655:TYR:HA	2:FB:688:HIS:CD2	2.19	0.76
7:FO:277:LYS:NZ	7:FO:281:ASP:OD2	2.15	0.76
2:AB:127:ARG:NH1	2:AB:185:GLU:OE2	2.19	0.76
1:BA:1513:GLU:O	1:BA:1515:GLY:N	2.19	0.76
1:CA:964:LYS:HZ1	1:CA:967:PRO:HA	1.49	0.76
3:CC:125:LYS:O	3:CC:130:ASN:ND2	2.18	0.76
1:EA:1050:TYR:HB3	1:EA:1054:ALA:HA	1.68	0.76
5:EE:6:GLU:HA	5:EE:9:ILE:HB	1.68	0.76
2:EB:651:ARG:NH2	2:EB:690:GLU:OE1	2.18	0.76
2:AB:884:GLU:O	2:AB:903:ILE:HG22	1.85	0.76
3:BC:69:ARG:O	3:BC:73:SER:OG	2.03	0.76
1:CA:809:VAL:O	1:CA:813:LEU:HG	1.85	0.76
4:CD:22:ILE:O	7:CG:76:LYS:NZ	2.19	0.76
13:CM:15:VAL:HG22	13:CM:90:LEU:HD12	1.68	0.76
1:DA:512:THR:OG1	1:DA:513:ALA:N	2.13	0.76
3:AC:45:SER:OG	3:AC:271:ARG:NH2	2.19	0.76
2:CB:848:ILE:HD11	12:CL:58:LYS:HD3	1.68	0.76
1:DA:1474:LEU:HD13	1:DA:1475:GLU:H	1.51	0.76
8:EH:55:LEU:HD23	8:EH:146:ARG:HG2	1.66	0.76
1:AA:964:LYS:HZ1	1:AA:967:PRO:HA	1.49	0.76
8:BH:55:LEU:HD23	8:BH:146:ARG:HG2	1.66	0.76
2:FB:161:LEU:HD12	2:FB:162:PRO:HD2	1.68	0.76
9:FI:109:THR:OG1	9:FI:124:ASN:ND2	2.19	0.76
14:FN:40:LEU:HD12	14:FN:41:ASN:H	1.48	0.76
2:BB:73:ILE:HG13	2:BB:429:ARG:HH22	1.51	0.75
1:FA:477:ASN:O	2:FB:1091:ARG:NH2	2.20	0.75
1:AA:966:LEU:HG	1:AA:968:SER:H	1.51	0.75
1:EA:194:ALA:O	1:EA:198:SER:OG	2.04	0.75
2:EB:467:THR:HB	2:EB:469:ASN:HD22	1.51	0.75
2:EB:970:LYS:NZ	2:EB:1011:GLU:OE2	2.16	0.75
11:FK:54:THR:HG22	11:FK:61:ALA:HA	1.68	0.75
1:AA:395:LEU:HD13	7:AO:276:LYS:HB2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:6:GLU:HA	5:AE:9:ILE:HB	1.67	0.75
7:AG:45:LEU:HD11	7:AG:118:CYS:HB2	1.69	0.75
1:CA:1305:GLU:HG3	9:CI:60:LEU:HG	1.66	0.75
1:DA:1513:GLU:O	1:DA:1515:GLY:N	2.19	0.75
1:FA:399:LEU:HD11	7:FO:270:LEU:HB3	1.68	0.75
1:FA:560:GLN:O	1:FA:575:LYS:NZ	2.15	0.75
3:FC:126:PHE:HA	3:FC:130:ASN:HD22	1.51	0.75
13:FM:40:LEU:HD11	13:FM:51:PHE:HB3	1.66	0.75
1:AA:422:ARG:NH1	7:AO:270:LEU:O	2.19	0.75
1:AA:1251:ALA:O	1:AA:1254:PHE:N	2.17	0.75
1:EA:209:THR:HG21	5:EE:174:GLN:HG3	1.68	0.75
12:FL:34:CYS:SG	12:FL:36:SER:OG	2.44	0.75
1:CA:611:GLU:OE1	1:CA:615:ARG:NH1	2.20	0.75
5:CE:136:ASN:OD1	5:CE:138:ALA:N	2.19	0.75
7:EO:272:ILE:HD13	7:EO:275:ASN:H	1.51	0.75
1:FA:1484:LEU:HG	2:FB:308:LEU:HD11	1.66	0.75
2:AB:651:ARG:NH2	2:AB:690:GLU:OE1	2.20	0.75
2:CB:674:ILE:HG23	2:CB:688:HIS:HB2	1.69	0.75
2:DB:73:ILE:HG13	2:DB:429:ARG:HH22	1.52	0.75
2:EB:22:GLU:OE2	10:EJ:55:ASP:N	2.17	0.75
2:FB:788:ILE:HB	2:FB:948:ILE:HB	1.68	0.75
1:CA:97:TYR:O	1:CA:101:SER:OG	2.05	0.75
1:CA:1028:GLU:HA	1:CA:1187:ILE:HG12	1.68	0.75
2:DB:674:ILE:HG23	2:DB:688:HIS:HB2	1.69	0.75
7:FG:153:PHE:HB3	7:FG:243:VAL:HG21	1.68	0.75
2:CB:467:THR:HB	2:CB:469:ASN:HD22	1.52	0.75
13:CM:40:LEU:HD11	13:CM:51:PHE:HB3	1.67	0.75
1:DA:835:LEU:HG	1:DA:985:ARG:HH12	1.51	0.75
11:DK:89:CYS:SG	11:DK:90:GLY:N	2.60	0.75
2:EB:1041:ASN:O	2:EB:1043:LYS:N	2.20	0.75
13:EM:38:PHE:HB3	13:EM:53:LEU:HD11	1.69	0.75
2:BB:161:LEU:HD12	2:BB:162:PRO:HD2	1.67	0.75
3:BC:329:LYS:HD2	11:BK:122:LYS:HE2	1.68	0.75
3:CC:126:PHE:HA	3:CC:130:ASN:ND2	2.01	0.75
5:BE:6:GLU:HA	5:BE:9:ILE:HB	1.68	0.74
13:BM:10:ILE:HD11	14:BN:72:VAL:HB	1.68	0.74
2:CB:1052:VAL:HA	2:CB:1059:PRO:HA	1.67	0.74
5:CE:175:LEU:HD13	5:CE:176:PRO:HD2	1.69	0.74
7:CG:89:ILE:HA	7:CG:118:CYS:SG	2.27	0.74
1:FA:1050:TYR:HB3	1:FA:1054:ALA:HA	1.69	0.74
2:CB:884:GLU:O	2:CB:903:ILE:HG22	1.85	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:13:CYS:SG	9:CI:14:GLY:N	2.60	0.74
2:DB:970:LYS:NZ	2:DB:1011:GLU:OE2	2.15	0.74
2:DB:1017:ALA:O	3:DC:65:ASN:ND2	2.20	0.74
6:DF:110:ASP:OD1	6:DF:110:ASP:N	2.19	0.74
13:DM:10:ILE:HD11	14:DN:72:VAL:HB	1.67	0.74
1:EA:709:ARG:O	1:EA:711:LYS:N	2.18	0.74
2:EB:138:LEU:HD22	2:EB:157:ASP:HA	1.66	0.74
11:EK:54:THR:HG22	11:EK:61:ALA:HA	1.69	0.74
2:FB:588:ILE:O	2:FB:591:LYS:HG2	1.86	0.74
2:AB:934:ILE:HG21	3:AC:73:SER:HB3	1.70	0.74
8:AH:5:LEU:HD22	8:AH:135:LEU:HD23	1.69	0.74
14:AN:87:TYR:HB3	14:AN:139:VAL:HG12	1.68	0.74
1:BA:611:GLU:OE1	1:BA:615:ARG:NH1	2.20	0.74
1:CA:512:THR:OG1	1:CA:513:ALA:N	2.18	0.74
1:DA:141:LEU:HG	1:DA:142:GLY:H	1.52	0.74
2:DB:884:GLU:O	2:DB:903:ILE:HG22	1.85	0.74
2:FB:520:LEU:HD21	2:FB:530:PRO:HA	1.68	0.74
5:AE:93:MET:HG2	5:AE:120:ALA:HB1	1.69	0.74
1:CA:964:LYS:NZ	2:CB:672:MET:O	2.19	0.74
12:CL:34:CYS:CB	12:CL:51:CYS:SG	2.62	0.74
2:DB:203:ILE:HD13	2:DB:405:GLY:HA3	1.70	0.74
13:DM:80:LEU:HD21	14:DN:40:LEU:HD12	1.70	0.74
8:EH:5:LEU:HD22	8:EH:135:LEU:HD23	1.69	0.74
1:FA:509:GLU:OE1	1:FA:584:ARG:NH1	2.21	0.74
3:AC:197:ARG:HG2	10:AJ:61:LEU:HD22	1.69	0.74
1:CA:620:ASN:OD1	1:CA:667:ARG:NH2	2.20	0.74
7:DG:45:LEU:HD11	7:DG:118:CYS:HB2	1.69	0.74
1:FA:809:VAL:O	1:FA:813:LEU:HG	1.87	0.74
2:BB:397:THR:HB	2:BB:666:PRO:HB3	1.69	0.74
1:CA:1050:TYR:HB3	1:CA:1054:ALA:HA	1.66	0.74
1:EA:745:PRO:HG2	1:EA:1075:ALA:HB2	1.69	0.74
1:AA:1246:VAL:HG13	1:AA:1250:GLN:HB3	1.68	0.74
2:AB:567:SER:HB2	14:AN:59:PRO:HB3	1.68	0.74
3:AC:126:PHE:HA	3:AC:130:ASN:HD22	1.51	0.74
3:BC:103:LEU:O	10:BJ:6:ARG:NH2	2.20	0.74
3:BC:135:SER:HA	3:BC:205:LYS:HA	1.70	0.74
12:BL:53:HIS:O	12:BL:55:ILE:N	2.17	0.74
1:DA:1553:TYR:HD1	5:DE:144:ILE:HB	1.51	0.74
5:DE:175:LEU:HD13	5:DE:176:PRO:HD2	1.70	0.74
1:FA:512:THR:OG1	1:FA:513:ALA:N	2.17	0.74
1:FA:1252:ASP:HA	1:FA:1255:CYS:SG	2.28	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:970:LYS:NZ	2:AB:1011:GLU:OE2	2.14	0.74
2:DB:212:ASN:OD1	2:DB:212:ASN:N	2.17	0.74
2:EB:567:SER:HB2	14:EN:59:PRO:HB3	1.70	0.74
10:EJ:10:CYS:SG	10:EJ:43:ARG:NH1	2.61	0.74
1:FA:669:LEU:HD12	1:FA:786:TYR:HD1	1.52	0.74
5:FE:175:LEU:HD13	5:FE:176:PRO:HD2	1.70	0.74
8:FH:118:PHE:HB2	8:FH:121:LEU:HB2	1.70	0.74
11:FK:89:CYS:SG	11:FK:90:GLY:N	2.60	0.74
1:AA:1557:ALA:HB2	5:AE:150:VAL:HG22	1.68	0.74
1:CA:1617:THR:HB	1:CA:1620:GLN:HG2	1.70	0.74
2:EB:884:GLU:O	2:EB:903:ILE:HG22	1.88	0.74
14:EN:87:TYR:HB3	14:EN:139:VAL:HG12	1.70	0.74
1:AA:194:ALA:O	1:AA:198:SER:OG	2.06	0.74
2:CB:1041:ASN:O	2:CB:1043:LYS:N	2.21	0.74
2:BB:138:LEU:HD22	2:BB:157:ASP:HA	1.70	0.73
1:CA:113:VAL:HG13	1:CA:182:LYS:HG3	1.70	0.73
1:DA:1028:GLU:HA	1:DA:1187:ILE:HG12	1.69	0.73
2:AB:152:LEU:HD13	2:AB:443:LYS:HG3	1.69	0.73
2:AB:203:ILE:HD13	2:AB:405:GLY:HA3	1.68	0.73
5:AE:198:ILE:HD11	5:AE:212:ARG:HG2	1.68	0.73
1:BA:1474:LEU:HD13	1:BA:1475:GLU:H	1.52	0.73
5:BE:57:MET:SD	5:BE:57:MET:N	2.57	0.73
1:CA:124:LEU:HD11	1:CA:189:VAL:HG22	1.70	0.73
2:CB:152:LEU:HD13	2:CB:443:LYS:HG3	1.68	0.73
2:DB:213:HIS:HB2	2:DB:643:PHE:CZ	2.22	0.73
3:DC:100:ARG:O	3:DC:103:LEU:N	2.18	0.73
8:DH:55:LEU:HD23	8:DH:146:ARG:HG2	1.70	0.73
13:EM:10:ILE:HD11	14:EN:72:VAL:HB	1.70	0.73
1:FA:1261:VAL:HG12	1:FA:1498:ILE:HD12	1.68	0.73
2:FB:1047:ARG:NH2	2:FB:1051:PRO:O	2.21	0.73
12:FL:63:ARG:HG2	12:FL:64:LEU:H	1.53	0.73
1:AA:1050:TYR:HB3	1:AA:1054:ALA:HA	1.69	0.73
1:AA:1474:LEU:HD13	1:AA:1475:GLU:H	1.54	0.73
2:AB:396:ALA:HB1	2:AB:523:GLU:HG3	1.71	0.73
1:BA:40:ASN:N	1:BA:40:ASN:OD1	2.21	0.73
11:BK:89:CYS:SG	11:BK:90:GLY:N	2.61	0.73
1:CA:1276:THR:HG23	1:CA:1288:ARG:HH11	1.53	0.73
1:EA:835:LEU:HG	1:EA:985:ARG:HH12	1.51	0.73
2:FB:651:ARG:NH2	2:FB:690:GLU:OE1	2.21	0.73
1:AA:1261:VAL:HG12	1:AA:1498:ILE:HD12	1.70	0.73
1:BA:908:VAL:HG11	9:BI:82:ILE:HG13	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:BL:63:ARG:HG2	12:BL:64:LEU:H	1.54	0.73
7:CO:270:LEU:HG	7:CO:271:PRO:HD2	1.70	0.73
1:FA:1474:LEU:HD13	1:FA:1475:GLU:H	1.52	0.73
1:AA:1237:GLN:H	1:AA:1544:ASN:HB3	1.54	0.73
13:AM:15:VAL:HG22	13:AM:90:LEU:HD12	1.69	0.73
13:BM:38:PHE:HB3	13:BM:53:LEU:HD11	1.70	0.73
2:DB:130:LEU:HD22	2:DB:198:GLY:HA3	1.70	0.73
1:EA:30:LYS:NZ	1:EA:51:ASP:OD2	2.18	0.73
1:EA:1263:LEU:HB2	1:EA:1496:SER:HB2	1.70	0.73
1:FA:1264:SER:O	9:FI:56:PHE:HB3	1.88	0.73
5:FE:153:HIS:CD2	5:FE:184:VAL:HG11	2.22	0.73
10:AJ:7:CYS:SG	10:AJ:8:PHE:N	2.61	0.73
1:BA:97:TYR:O	1:BA:101:SER:OG	2.06	0.73
2:BB:651:ARG:NH2	2:BB:690:GLU:OE1	2.22	0.73
1:CA:76:GLN:HE22	2:CB:1111:LEU:HD12	1.54	0.73
1:CA:856:GLU:OE1	1:CA:857:ALA:N	2.21	0.73
3:CC:197:ARG:HG2	10:CJ:61:LEU:HD22	1.71	0.73
7:CG:45:LEU:HD11	7:CG:118:CYS:HB2	1.68	0.73
3:DC:103:LEU:O	10:DJ:6:ARG:NH2	2.21	0.73
1:EA:729:LYS:HD2	8:EH:120:GLY:HA3	1.70	0.73
5:BE:136:ASN:OD1	5:BE:138:ALA:N	2.22	0.73
1:CA:509:GLU:OE1	1:CA:584:ARG:NH1	2.21	0.73
2:CB:75:ASP:OD2	2:CB:93:ASN:ND2	2.21	0.73
1:DA:1050:TYR:HB3	1:DA:1054:ALA:HA	1.68	0.73
3:DC:126:PHE:HA	3:DC:130:ASN:ND2	2.02	0.73
2:EB:749:THR:OG1	2:EB:763:ASP:OD1	2.06	0.73
2:EB:753:LYS:O	2:EB:981:SER:OG	2.05	0.73
1:FA:641:GLU:HB2	6:FF:99:LEU:HD22	1.71	0.73
2:FB:714:ARG:HG3	2:FB:922:GLY:HA3	1.71	0.73
2:FB:776:ILE:HB	2:FB:1026:ILE:HD13	1.71	0.73
2:AB:397:THR:HB	2:AB:666:PRO:HB3	1.71	0.73
2:BB:212:ASN:OD1	2:BB:212:ASN:N	2.22	0.73
2:DB:751:ILE:HG12	2:DB:969:GLY:HA2	1.71	0.73
2:FB:109:SER:OG	2:FB:110:ASN:N	2.21	0.73
2:FB:533:THR:OG1	2:FB:542:LEU:O	2.05	0.73
1:CA:1293:HIS:HE1	1:CA:1469:TRP:HB2	1.54	0.73
2:EB:788:ILE:HB	2:EB:948:ILE:HB	1.70	0.73
8:EH:62:SER:OG	8:EH:63:LEU:N	2.19	0.73
11:EK:88:PHE:HB3	11:EK:106:GLN:HB2	1.69	0.73
2:BB:1002:LYS:NZ	14:BN:166:LEU:HD13	2.03	0.73
3:CC:136:LEU:O	3:CC:203:SER:HA	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:611:GLU:OE1	1:EA:615:ARG:NH1	2.22	0.73
2:EB:751:ILE:HG12	2:EB:969:GLY:HA2	1.69	0.73
1:BA:512:THR:OG1	1:BA:513:ALA:N	2.17	0.72
1:FA:40:ASN:OD1	1:FA:40:ASN:N	2.21	0.72
1:FA:680:LEU:HD21	1:FA:731:ILE:HD12	1.71	0.72
1:FA:850:SER:O	1:FA:852:ASP:N	2.22	0.72
2:FB:152:LEU:HD13	2:FB:443:LYS:HG3	1.70	0.72
2:AB:73:ILE:HG13	2:AB:429:ARG:HH22	1.54	0.72
8:AH:95:TYR:HD2	8:AH:144:ILE:HD13	1.55	0.72
2:BB:109:SER:OG	2:BB:110:ASN:N	2.19	0.72
2:CB:73:ILE:HD13	2:CB:74:PHE:H	1.54	0.72
3:CC:135:SER:HA	3:CC:205:LYS:HA	1.71	0.72
1:DA:1033:SER:HB3	6:DF:139:PRO:HG2	1.69	0.72
3:EC:164:ALA:HB2	3:EC:191:ILE:HB	1.71	0.72
7:BG:237:HIS:HB2	7:BG:244:SER:HB3	1.71	0.72
1:CA:1261:VAL:HG12	1:CA:1498:ILE:HD12	1.71	0.72
1:CA:1263:LEU:HB2	1:CA:1496:SER:HB2	1.72	0.72
1:DA:38:LEU:HD12	7:DO:291:SER:HB3	1.71	0.72
2:FB:804:TYR:HB3	2:FB:904:LYS:HD3	1.72	0.72
3:AC:125:LYS:O	3:AC:130:ASN:ND2	2.23	0.72
1:CA:1470:CYS:SG	1:CA:1471:GLU:N	2.62	0.72
8:DH:5:LEU:HD22	8:DH:135:LEU:HD23	1.71	0.72
1:EA:699:CYS:SG	1:EA:700:ILE:N	2.63	0.72
2:EB:623:ASP:HA	2:EB:663:ILE:HG21	1.71	0.72
7:EO:266:GLN:O	7:EO:268:GLU:N	2.23	0.72
2:BB:73:ILE:HD13	2:BB:74:PHE:H	1.54	0.72
1:DA:968:SER:CB	2:DB:676:VAL:HG23	2.20	0.72
2:DB:397:THR:HB	2:DB:666:PRO:HB3	1.71	0.72
3:DC:228:ARG:NH1	14:DN:173:THR:OG1	2.20	0.72
2:EB:229:TYR:HA	2:EB:253:LEU:HD22	1.72	0.72
1:FA:1264:SER:HB3	9:FI:56:PHE:CD1	2.24	0.72
2:FB:888:ILE:HG13	12:FL:54:ARG:O	1.89	0.72
2:AB:212:ASN:N	2:AB:212:ASN:OD1	2.23	0.72
1:BA:729:LYS:HD2	8:BH:120:GLY:HA3	1.70	0.72
2:BB:884:GLU:O	2:BB:903:ILE:HG22	1.88	0.72
12:DL:47:ARG:HB3	12:DL:54:ARG:HG3	1.71	0.72
1:EA:532:GLY:O	1:EA:580:HIS:N	2.16	0.72
1:EA:715:LEU:HD22	1:EA:716:PRO:HD2	1.71	0.72
2:EB:699:ILE:HD13	2:EB:699:ILE:H	1.54	0.72
5:EE:5:ASN:HD21	5:EE:52:ARG:HH21	1.36	0.72
1:FA:709:ARG:O	1:FA:711:LYS:N	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1009:THR:HG21	9:AI:101:LEU:HD23	1.72	0.72
1:AA:1202:LEU:HD11	9:AI:101:LEU:HD11	1.70	0.72
2:AB:73:ILE:HD13	2:AB:74:PHE:H	1.54	0.72
2:BB:935:ASP:OD1	3:BC:69:ARG:NH2	2.23	0.72
2:CB:229:TYR:HA	2:CB:253:LEU:HD22	1.70	0.72
3:EC:126:PHE:HA	3:EC:130:ASN:ND2	2.04	0.72
2:FB:94:LYS:HB3	2:FB:146:ASN:HA	1.71	0.72
1:AA:669:LEU:HD12	1:AA:786:TYR:HD1	1.55	0.72
3:BC:125:LYS:O	3:BC:130:ASN:ND2	2.22	0.72
1:CA:1513:GLU:O	1:CA:1515:GLY:N	2.23	0.72
3:FC:84:TYR:HB3	12:FL:64:LEU:HD11	1.72	0.72
1:CA:30:LYS:NZ	1:CA:51:ASP:OD2	2.20	0.72
1:CA:40:ASN:OD1	1:CA:40:ASN:N	2.21	0.72
7:CG:149:ILE:HG22	7:CG:150:HIS:CD2	2.23	0.72
2:DB:623:ASP:HA	2:DB:663:ILE:HG21	1.72	0.72
10:EJ:7:CYS:SG	10:EJ:8:PHE:N	2.62	0.72
1:FA:82:PRO:HG2	1:FA:396:ILE:HD12	1.70	0.72
3:FC:32:ASN:HB2	3:FC:35:LYS:HE3	1.72	0.72
4:FD:44:ILE:HD13	4:FD:90:LYS:HG3	1.72	0.72
1:AA:618:TYR:HB3	1:AA:670:ILE:HD11	1.72	0.72
1:BA:1016:SER:HB2	1:BA:1019:LEU:HD22	1.70	0.72
2:CB:754:ALA:O	2:CB:756:LEU:N	2.23	0.72
1:DA:99:ARG:O	1:DA:109:ARG:NH2	2.22	0.72
1:DA:1217:LEU:HD13	1:DA:1573:TYR:HE1	1.55	0.72
1:DA:1261:VAL:HG12	1:DA:1498:ILE:HD12	1.72	0.72
1:DA:1557:ALA:HB2	5:DE:150:VAL:HG22	1.72	0.72
2:EB:152:LEU:HD13	2:EB:443:LYS:HG3	1.71	0.72
3:FC:135:SER:HA	3:FC:205:LYS:HA	1.72	0.72
2:AB:655:TYR:HA	2:AB:688:HIS:CD2	2.23	0.71
1:BA:524:ILE:O	1:BA:554:ARG:NH1	2.22	0.71
1:BA:809:VAL:O	1:BA:813:LEU:HG	1.90	0.71
5:BE:175:LEU:HD13	5:BE:176:PRO:HD2	1.72	0.71
13:CM:38:PHE:HB3	13:CM:53:LEU:HD11	1.71	0.71
1:DA:809:VAL:O	1:DA:813:LEU:HG	1.90	0.71
2:DB:467:THR:HB	2:DB:469:ASN:HD22	1.55	0.71
1:EA:1638:SER:HA	1:EA:1641:ILE:HD12	1.71	0.71
2:EB:134:ARG:HA	2:EB:163:VAL:HG23	1.72	0.71
1:BA:618:TYR:HB3	1:BA:670:ILE:HD11	1.71	0.71
3:BC:136:LEU:O	3:BC:203:SER:HA	1.90	0.71
12:BL:34:CYS:CB	12:BL:51:CYS:SG	2.61	0.71
1:CA:524:ILE:O	1:CA:554:ARG:NH1	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:130:LEU:HD22	2:CB:198:GLY:HA3	1.72	0.71
3:CC:201:GLU:O	3:CC:202:ILE:HD12	1.91	0.71
8:CH:62:SER:OG	8:CH:63:LEU:N	2.21	0.71
7:CO:272:ILE:HG23	7:CO:275:ASN:HD21	1.56	0.71
2:DB:848:ILE:HG13	12:DL:60:ARG:HA	1.71	0.71
13:DM:38:PHE:HB3	13:DM:53:LEU:HD11	1.72	0.71
5:FE:41:ASP:OD1	5:FE:41:ASP:N	2.14	0.71
1:AA:709:ARG:O	1:AA:711:LYS:N	2.21	0.71
1:AA:748:ASN:HD22	1:AA:748:ASN:N	1.89	0.71
1:AA:804:GLU:N	1:AA:804:GLU:OE1	2.23	0.71
1:AA:1322:ILE:HG21	1:AA:1457:ILE:HD11	1.72	0.71
2:BB:674:ILE:HG23	2:BB:688:HIS:HB2	1.73	0.71
3:BC:83:VAL:HG13	3:BC:206:ALA:HB2	1.72	0.71
13:EM:40:LEU:HD11	13:EM:51:PHE:HB3	1.71	0.71
13:EM:80:LEU:HD13	14:EN:39:PRO:HG2	1.72	0.71
2:BB:431:ASP:HB3	2:BB:438:ILE:HD11	1.73	0.71
1:CA:1033:SER:HB3	6:CF:139:PRO:HG2	1.70	0.71
2:EB:971:ALA:O	2:EB:974:LEU:N	2.24	0.71
1:AA:748:ASN:ND2	1:AA:1072:ASN:OD1	2.23	0.71
1:CA:11:ILE:HG21	2:CB:1198:TYR:HB2	1.73	0.71
1:CA:618:TYR:O	1:CA:621:THR:OG1	2.06	0.71
1:DA:985:ARG:HD2	1:DA:987:TYR:HB3	1.72	0.71
3:DC:314:PHE:O	3:DC:317:SER:OG	2.08	0.71
3:DC:329:LYS:HD2	11:DK:122:LYS:HE2	1.72	0.71
5:DE:93:MET:HG2	5:DE:120:ALA:HB1	1.72	0.71
12:EL:63:ARG:HG2	12:EL:64:LEU:H	1.56	0.71
1:FA:1028:GLU:HA	1:FA:1187:ILE:HG12	1.71	0.71
1:FA:1202:LEU:HD22	9:FI:99:LEU:HD22	1.71	0.71
1:FA:1263:LEU:HB2	1:FA:1496:SER:HB2	1.72	0.71
1:FA:1293:HIS:HE1	1:FA:1469:TRP:HB2	1.56	0.71
14:AN:97:SER:HB3	14:AN:105:SER:HB3	1.73	0.71
1:BA:11:ILE:HG21	2:BB:1198:TYR:HB2	1.73	0.71
1:BA:818:THR:HG23	2:BB:780:GLY:HA3	1.73	0.71
5:CE:5:ASN:HD21	5:CE:52:ARG:HH21	1.37	0.71
9:DI:99:LEU:HB2	9:DI:111:PHE:HZ	1.56	0.71
1:EA:865:ASP:OD2	1:EA:867:ASP:N	2.22	0.71
5:EE:153:HIS:CD2	5:EE:184:VAL:HG11	2.26	0.71
1:AA:882:ILE:HD13	1:AA:888:LYS:HB3	1.73	0.71
1:BA:55:GLY:HA2	1:BA:72:CYS:SG	2.31	0.71
1:BA:1557:ALA:HB2	5:BE:150:VAL:HG22	1.73	0.71
11:CK:89:CYS:SG	11:CK:90:GLY:N	2.64	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:972:GLY:HA2	2:EB:977:ILE:HG22	1.72	0.71
5:EE:41:ASP:OD1	5:EE:41:ASP:N	2.18	0.71
14:FN:105:SER:OG	14:FN:132:GLN:NE2	2.23	0.71
1:AA:113:VAL:HG13	1:AA:182:LYS:HG3	1.70	0.71
2:BB:776:ILE:HB	2:BB:1026:ILE:HD13	1.72	0.71
7:BG:105:ILE:HG12	7:BG:116:THR:HB	1.73	0.71
7:CG:105:ILE:HG12	7:CG:116:THR:HB	1.73	0.71
14:CN:93:THR:HG23	14:CN:99:LEU:HD21	1.71	0.71
1:DA:549:MET:SD	1:DA:553:GLN:NE2	2.63	0.71
1:EA:385:LEU:HD13	1:EA:437:PHE:HA	1.73	0.71
1:EA:1513:GLU:O	1:EA:1515:GLY:N	2.23	0.71
3:EC:329:LYS:HD2	11:EK:122:LYS:HE2	1.71	0.71
1:FA:532:GLY:O	1:FA:580:HIS:N	2.17	0.71
1:FA:855:ARG:O	1:FA:858:ALA:N	2.23	0.71
1:FA:1638:SER:HA	1:FA:1641:ILE:HD12	1.73	0.71
2:AB:788:ILE:HB	2:AB:948:ILE:HB	1.71	0.71
1:BA:745:PRO:HG2	1:BA:1075:ALA:HB2	1.72	0.71
1:CA:510:PRO:O	1:CA:515:ASN:ND2	2.23	0.71
2:CB:970:LYS:NZ	2:CB:1011:GLU:OE2	2.19	0.71
7:DG:105:ILE:HG12	7:DG:116:THR:HB	1.72	0.71
1:EA:40:ASN:N	1:EA:40:ASN:OD1	2.23	0.71
12:AL:34:CYS:CB	12:AL:51:CYS:SG	2.64	0.71
9:BI:13:CYS:SG	9:BI:14:GLY:N	2.63	0.71
5:DE:41:ASP:OD1	5:DE:41:ASP:N	2.17	0.71
1:EA:97:TYR:O	1:EA:101:SER:OG	2.08	0.71
1:EA:618:TYR:HB3	1:EA:670:ILE:HD11	1.71	0.71
1:EA:1276:THR:HG23	1:EA:1288:ARG:HH11	1.56	0.71
1:EA:1474:LEU:HD13	1:EA:1475:GLU:H	1.55	0.71
1:FA:1617:THR:HB	1:FA:1620:GLN:HG2	1.72	0.71
2:FB:73:ILE:HD13	2:FB:74:PHE:H	1.56	0.71
2:FB:967:LEU:H	2:FB:967:LEU:HD12	1.55	0.71
2:BB:52:LEU:HB3	2:BB:61:LEU:HD11	1.71	0.70
7:BG:45:LEU:HD11	7:BG:118:CYS:HB2	1.72	0.70
1:CA:391:THR:HG21	7:CO:284:VAL:HG21	1.73	0.70
2:CB:788:ILE:HB	2:CB:948:ILE:HB	1.72	0.70
2:DB:213:HIS:HB2	2:DB:643:PHE:HZ	1.56	0.70
2:DB:229:TYR:HA	2:DB:253:LEU:HD22	1.72	0.70
2:DB:832:TRP:HZ3	2:DB:834:LYS:HA	1.55	0.70
1:EA:472:MET:SD	1:EA:1025:LYS:NZ	2.58	0.70
1:AA:809:VAL:O	1:AA:813:LEU:HG	1.91	0.70
1:BA:1241:PRO:HG3	1:BA:1540:GLY:HA3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1246:VAL:HG13	1:BA:1250:GLN:HB3	1.73	0.70
9:CI:99:LEU:HB2	9:CI:111:PHE:HZ	1.56	0.70
2:DB:431:ASP:HB3	2:DB:438:ILE:HD11	1.71	0.70
1:FA:1647:ASN:HB3	1:FA:1649:VAL:HG23	1.72	0.70
1:AA:433:ASP:OD1	7:AO:277:LYS:NZ	2.22	0.70
1:AA:512:THR:OG1	1:AA:513:ALA:N	2.16	0.70
2:AB:623:ASP:HA	2:AB:663:ILE:HG21	1.74	0.70
2:CB:212:ASN:N	2:CB:212:ASN:OD1	2.22	0.70
6:DF:97:ARG:HA	6:DF:100:GLN:HG3	1.73	0.70
2:AB:752:VAL:HG21	2:AB:965:GLU:HG2	1.73	0.70
2:AB:774:ALA:HB3	2:AB:948:ILE:HA	1.74	0.70
4:AD:44:ILE:HD13	4:AD:90:LYS:HG3	1.72	0.70
5:BE:198:ILE:HD11	5:BE:212:ARG:HG2	1.72	0.70
1:CA:669:LEU:HD22	1:CA:673:HIS:ND1	2.06	0.70
2:CB:109:SER:OG	2:CB:110:ASN:N	2.23	0.70
1:DA:855:ARG:O	1:DA:858:ALA:N	2.24	0.70
2:DB:52:LEU:HB3	2:DB:61:LEU:HD11	1.73	0.70
3:DC:197:ARG:HG2	10:DJ:61:LEU:HD22	1.72	0.70
1:EA:1322:ILE:HG21	1:EA:1457:ILE:HD11	1.72	0.70
2:EB:845:LEU:HD12	12:EL:58:LYS:HD2	1.74	0.70
2:EB:886:ASN:O	2:EB:902:SER:N	2.22	0.70
1:FA:76:GLN:HE22	2:FB:1111:LEU:HD12	1.55	0.70
1:FA:693:GLN:OE1	11:FK:88:PHE:HA	1.91	0.70
1:AA:669:LEU:HD22	1:AA:673:HIS:ND1	2.06	0.70
2:AB:1047:ARG:NH2	2:AB:1051:PRO:O	2.25	0.70
5:AE:136:ASN:OD1	5:AE:138:ALA:N	2.25	0.70
5:AE:192:ARG:NH2	5:AE:215:MET:O	2.24	0.70
1:BA:1322:ILE:HG21	1:BA:1457:ILE:HD11	1.72	0.70
2:CB:567:SER:HB2	14:CN:59:PRO:HB3	1.72	0.70
1:DA:1139:ASN:HB2	5:DE:205:SER:HA	1.72	0.70
2:EB:396:ALA:HB1	2:EB:523:GLU:HG3	1.73	0.70
2:EB:834:LYS:O	2:EB:836:TRP:N	2.24	0.70
2:FB:892:SER:OG	2:FB:896:GLN:NE2	2.25	0.70
1:CA:385:LEU:HD13	1:CA:437:PHE:HA	1.74	0.70
1:CA:748:ASN:N	1:CA:748:ASN:HD22	1.88	0.70
11:DK:54:THR:HG22	11:DK:61:ALA:HA	1.73	0.70
1:FA:1217:LEU:HD13	1:FA:1573:TYR:HE1	1.56	0.70
2:FB:262:PHE:CE2	2:FB:269:TYR:HB2	2.26	0.70
8:BH:5:LEU:HD22	8:BH:135:LEU:HD23	1.72	0.70
5:CE:93:MET:HG2	5:CE:120:ALA:HB1	1.73	0.70
1:EA:1617:THR:HB	1:EA:1620:GLN:HG2	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1220:PRO:O	1:FA:1223:ARG:N	2.25	0.70
5:FE:137:GLU:O	5:FE:139:ALA:N	2.23	0.70
2:AB:94:LYS:HB3	2:AB:146:ASN:HA	1.74	0.70
2:AB:109:SER:OG	2:AB:110:ASN:N	2.21	0.70
1:CA:82:PRO:HG2	1:CA:396:ILE:HD12	1.73	0.70
1:DA:1293:HIS:HE1	1:DA:1469:TRP:HB2	1.56	0.70
1:DA:1555:VAL:N	5:DE:182:ASP:OD1	2.20	0.70
1:EA:123:ARG:HD3	1:EA:337:TYR:CE1	2.25	0.70
2:FB:749:THR:OG1	2:FB:763:ASP:OD1	2.10	0.70
1:AA:461:GLU:HA	1:AA:465:GLY:HA2	1.74	0.70
1:AA:1590:THR:OG1	5:AE:212:ARG:NH2	2.24	0.70
2:CB:655:TYR:HA	2:CB:688:HIS:CD2	2.26	0.70
2:DB:629:VAL:HG11	2:DB:636:GLN:HG2	1.74	0.70
2:EB:1047:ARG:NH2	2:EB:1051:PRO:O	2.25	0.70
2:FB:674:ILE:HG23	2:FB:688:HIS:HB2	1.72	0.70
1:AA:856:GLU:OE1	1:AA:857:ALA:N	2.25	0.70
1:BA:1293:HIS:HE1	1:BA:1469:TRP:HB2	1.57	0.70
2:BB:98:SER:HA	2:BB:421:LEU:HD21	1.74	0.70
1:CA:1235:THR:O	1:CA:1544:ASN:ND2	2.25	0.70
1:CA:1237:GLN:H	1:CA:1544:ASN:HB3	1.56	0.70
1:CA:1322:ILE:HG21	1:CA:1457:ILE:HD11	1.74	0.70
2:CB:72:VAL:HG22	2:CB:96:SER:HA	1.74	0.70
2:CB:751:ILE:HG12	2:CB:969:GLY:HA2	1.72	0.70
3:CC:109:ASP:HB3	3:CC:112:MET:HE3	1.72	0.70
2:DB:134:ARG:HA	2:DB:163:VAL:HG23	1.72	0.70
5:DE:153:HIS:CD2	5:DE:184:VAL:HG11	2.27	0.70
2:AB:170:CYS:SG	2:AB:172:LEU:N	2.65	0.69
4:AD:36:VAL:HG21	7:AG:38:ILE:HD13	1.74	0.69
1:DA:956:ARG:HE	1:DA:979:GLY:HA3	1.55	0.69
2:DB:683:ASN:HA	14:DN:150:TYR:CE1	2.27	0.69
8:DH:62:SER:OG	8:DH:63:LEU:N	2.25	0.69
1:FA:194:ALA:O	1:FA:198:SER:OG	2.09	0.69
2:FB:972:GLY:HA2	2:FB:977:ILE:HG22	1.74	0.69
1:AA:141:LEU:HG	1:AA:142:GLY:H	1.57	0.69
3:AC:328:LEU:HB3	11:AK:121:LEU:HD11	1.73	0.69
1:CA:855:ARG:O	1:CA:858:ALA:N	2.25	0.69
1:CA:1335:LYS:HD2	1:CA:1338:ARG:HH21	1.57	0.69
2:CB:127:ARG:NH1	2:CB:185:GLU:OE2	2.24	0.69
9:CI:6:SER:H	9:CI:45:LEU:HD22	1.56	0.69
9:CI:109:THR:OG1	9:CI:124:ASN:ND2	2.26	0.69
3:DC:125:LYS:O	3:DC:130:ASN:ND2	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:82:PRO:HG2	1:EA:396:ILE:HD12	1.74	0.69
1:EA:509:GLU:OE1	1:EA:584:ARG:NH1	2.25	0.69
1:AA:745:PRO:HG2	1:AA:1075:ALA:HB2	1.74	0.69
3:AC:329:LYS:HD2	11:AK:122:LYS:HE2	1.74	0.69
13:AM:38:PHE:HB3	13:AM:53:LEU:HD11	1.74	0.69
2:BB:567:SER:HB2	14:BN:59:PRO:HB3	1.73	0.69
2:BB:629:VAL:HG11	2:BB:636:GLN:HG2	1.73	0.69
1:CA:1202:LEU:HD11	9:CI:101:LEU:HD11	1.74	0.69
1:CA:1217:LEU:HD13	1:CA:1573:TYR:HE1	1.57	0.69
2:DB:752:VAL:HG21	2:DB:965:GLU:HG2	1.74	0.69
9:DI:88:GLN:OE1	9:DI:119:TYR:HB2	1.92	0.69
1:EA:1335:LYS:HD2	1:EA:1338:ARG:HH21	1.58	0.69
1:FA:729:LYS:HD2	8:FH:120:GLY:HA3	1.74	0.69
2:FB:474:SER:O	2:FB:476:LEU:N	2.25	0.69
2:AB:891:GLU:O	2:AB:894:LYS:N	2.26	0.69
5:AE:152:LYS:HE3	5:AE:154:ILE:HD11	1.74	0.69
5:BE:153:HIS:CD2	5:BE:184:VAL:HG11	2.27	0.69
1:CA:1220:PRO:O	1:CA:1223:ARG:N	2.25	0.69
1:DA:509:GLU:OE1	1:DA:584:ARG:NH1	2.23	0.69
2:EB:161:LEU:HD12	2:EB:162:PRO:HD2	1.73	0.69
2:EB:832:TRP:HZ3	2:EB:834:LYS:HA	1.57	0.69
2:FB:170:CYS:SG	2:FB:172:LEU:N	2.66	0.69
2:AB:162:PRO:HG3	2:AB:462:GLN:HG3	1.75	0.69
1:BA:721:LYS:HG2	1:BA:722:PRO:HA	1.75	0.69
4:BD:22:ILE:O	7:BG:76:LYS:NZ	2.26	0.69
1:DA:721:LYS:HG2	1:DA:722:PRO:HA	1.73	0.69
3:DC:164:ALA:HB2	3:DC:191:ILE:HB	1.74	0.69
14:DN:87:TYR:HB3	14:DN:139:VAL:HG12	1.72	0.69
1:EA:510:PRO:O	1:EA:515:ASN:ND2	2.25	0.69
1:EA:524:ILE:O	1:EA:554:ARG:NH1	2.25	0.69
1:EA:1016:SER:HB2	1:EA:1019:LEU:HD22	1.74	0.69
2:FB:73:ILE:HG13	2:FB:429:ARG:HH22	1.57	0.69
1:AA:387:SER:HA	1:AA:390:LEU:HD12	1.75	0.69
2:AB:612:LYS:NZ	2:AB:624:LEU:O	2.25	0.69
1:BA:1059:LYS:NZ	1:BA:1178:LEU:O	2.25	0.69
2:BB:467:THR:HB	2:BB:469:ASN:HD22	1.56	0.69
1:CA:936:SER:HB2	9:CI:112:TYR:OH	1.92	0.69
1:CA:1335:LYS:HD2	1:CA:1338:ARG:NH2	2.07	0.69
2:CB:98:SER:OG	2:CB:99:VAL:N	2.20	0.69
3:CC:100:ARG:O	3:CC:103:LEU:N	2.20	0.69
3:DC:198:PRO:O	10:DJ:64:ASN:ND2	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:DN:105:SER:OG	14:DN:132:GLN:NE2	2.25	0.69
1:EA:748:ASN:HD22	1:EA:748:ASN:N	1.90	0.69
1:EA:782:ASP:OD1	1:EA:783:LYS:N	2.25	0.69
1:FA:748:ASN:HD22	1:FA:748:ASN:N	1.91	0.69
1:AA:637:PHE:HD1	1:AA:638:PRO:HD2	1.58	0.69
2:AB:699:ILE:HD13	2:AB:699:ILE:H	1.58	0.69
2:BB:788:ILE:HB	2:BB:948:ILE:HB	1.73	0.69
11:BK:54:THR:HG22	11:BK:61:ALA:HA	1.74	0.69
1:CA:669:LEU:HD12	1:CA:786:TYR:HD1	1.56	0.69
2:CB:774:ALA:HB3	2:CB:948:ILE:HA	1.75	0.69
2:DB:1002:LYS:NZ	14:DN:166:LEU:HD13	2.08	0.69
3:FC:225:ALA:HB1	3:FC:302:VAL:HG22	1.74	0.69
2:AB:533:THR:OG1	2:AB:542:LEU:O	2.08	0.69
2:AB:674:ILE:HG23	2:AB:688:HIS:HB2	1.73	0.69
3:AC:136:LEU:O	3:AC:203:SER:HA	1.93	0.69
7:AG:40:ARG:NH1	7:AG:123:TYR:OH	2.25	0.69
1:BA:956:ARG:HE	1:BA:979:GLY:HA3	1.58	0.69
1:BA:1647:ASN:HB3	1:BA:1649:VAL:HG23	1.75	0.69
2:BB:1202:PRO:HG3	7:BG:46:TYR:CE2	2.27	0.69
1:CA:782:ASP:OD1	1:CA:783:LYS:N	2.24	0.69
2:CB:971:ALA:O	2:CB:974:LEU:N	2.26	0.69
7:CO:272:ILE:HG23	7:CO:275:ASN:ND2	2.07	0.69
1:DA:715:LEU:HD22	1:DA:716:PRO:HD2	1.74	0.69
2:DB:533:THR:OG1	2:DB:542:LEU:O	2.09	0.69
5:DE:48:ASP:O	5:DE:50:MET:N	2.26	0.69
1:EA:477:ASN:O	2:EB:1091:ARG:NH2	2.26	0.69
1:EA:1220:PRO:O	1:EA:1223:ARG:N	2.26	0.69
1:EA:1226:VAL:HG12	1:EA:1227:MET:HG2	1.75	0.69
1:FA:113:VAL:HG13	1:FA:182:LYS:HG3	1.75	0.69
1:FA:699:CYS:SG	1:FA:700:ILE:N	2.66	0.69
1:FA:856:GLU:OE1	1:FA:857:ALA:N	2.26	0.69
2:FB:212:ASN:N	2:FB:212:ASN:OD1	2.25	0.69
3:FC:164:ALA:HB2	3:FC:191:ILE:HB	1.75	0.69
7:FG:149:ILE:HG22	7:FG:150:HIS:CD2	2.24	0.69
8:FH:5:LEU:HD22	8:FH:135:LEU:HD23	1.75	0.69
1:AA:1217:LEU:HD13	1:AA:1573:TYR:HE1	1.57	0.69
2:AB:811:LEU:HD13	2:AB:823:GLN:HE21	1.57	0.69
1:CA:721:LYS:HG2	1:CA:722:PRO:HA	1.74	0.69
2:CB:533:THR:OG1	2:CB:542:LEU:O	2.09	0.69
12:CL:53:HIS:O	12:CL:55:ILE:N	2.23	0.69
13:DM:112:LYS:HG3	13:DM:113:ILE:HD12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:612:LYS:NZ	2:EB:624:LEU:O	2.26	0.69
3:EC:136:LEU:O	3:EC:203:SER:HA	1.93	0.69
1:FA:618:TYR:O	1:FA:621:THR:OG1	2.11	0.69
5:FE:86:PRO:HA	5:FE:113:GLN:HB2	1.75	0.69
1:AA:472:MET:SD	1:AA:1025:LYS:NZ	2.58	0.69
1:BA:1333:ILE:HD11	1:BA:1483:LEU:HD11	1.75	0.69
2:BB:98:SER:OG	2:BB:99:VAL:N	2.26	0.69
2:DB:98:SER:OG	2:DB:99:VAL:N	2.24	0.69
2:DB:138:LEU:HD22	2:DB:157:ASP:HA	1.75	0.69
7:EG:24:VAL:O	7:EG:128:GLN:NE2	2.25	0.69
2:FB:170:CYS:SG	2:FB:171:HIS:N	2.65	0.69
1:BA:532:GLY:O	1:BA:580:HIS:N	2.15	0.68
1:CA:882:ILE:HD13	1:CA:888:LYS:HB3	1.75	0.68
2:CB:431:ASP:HB3	2:CB:438:ILE:HD11	1.74	0.68
2:CB:834:LYS:O	2:CB:836:TRP:N	2.26	0.68
7:CG:24:VAL:O	7:CG:128:GLN:NE2	2.25	0.68
1:DA:611:GLU:OE1	1:DA:615:ARG:NH1	2.26	0.68
5:DE:192:ARG:NH2	5:DE:215:MET:O	2.26	0.68
3:EC:90:SER:OG	3:EC:91:VAL:N	2.25	0.68
2:FB:623:ASP:HA	2:FB:663:ILE:HG21	1.75	0.68
13:FM:38:PHE:HB3	13:FM:53:LEU:HD11	1.75	0.68
1:AA:463:LYS:NZ	7:AO:315:SER:OG	2.24	0.68
1:AA:1276:THR:HG23	1:AA:1288:ARG:HH11	1.58	0.68
1:BA:964:LYS:HZ1	1:BA:967:PRO:HA	1.58	0.68
2:BB:213:HIS:HB2	2:BB:643:PHE:CZ	2.28	0.68
1:CA:418:VAL:HG11	7:CO:268:GLU:HG3	1.74	0.68
12:DL:53:HIS:O	12:DL:55:ILE:N	2.24	0.68
4:ED:44:ILE:HD13	4:ED:90:LYS:HG3	1.76	0.68
1:AA:1617:THR:HB	1:AA:1620:GLN:HG2	1.74	0.68
2:AB:848:ILE:HD11	12:AL:58:LYS:HD3	1.76	0.68
2:BB:327:LEU:HD13	2:BB:351:GLN:HG2	1.75	0.68
2:CB:38:LEU:O	2:CB:41:ALA:N	2.23	0.68
1:DA:11:ILE:HG21	2:DB:1198:TYR:HB2	1.75	0.68
1:DA:1237:GLN:H	1:DA:1544:ASN:HB3	1.57	0.68
2:DB:210:ARG:NH2	2:DB:625:GLU:OE2	2.26	0.68
3:DC:229:LEU:O	3:DC:293:ARG:NH1	2.26	0.68
13:DM:15:VAL:HG22	13:DM:90:LEU:HD12	1.76	0.68
11:EK:89:CYS:SG	11:EK:90:GLY:N	2.66	0.68
1:FA:472:MET:SD	1:FA:1025:LYS:NZ	2.61	0.68
2:FB:431:ASP:HB3	2:FB:438:ILE:HD11	1.75	0.68
3:FC:314:PHE:O	3:FC:317:SER:OG	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:229:TYR:HA	2:AB:253:LEU:HD22	1.73	0.68
2:BB:104:ILE:HB	2:BB:169:ARG:HG3	1.74	0.68
2:CB:832:TRP:HZ3	2:CB:834:LYS:HA	1.58	0.68
2:CB:876:SER:O	2:CB:878:GLU:N	2.20	0.68
3:DC:136:LEU:O	3:DC:203:SER:HA	1.93	0.68
11:DK:98:GLU:O	11:DK:100:LEU:N	2.26	0.68
1:FA:141:LEU:HG	1:FA:142:GLY:H	1.59	0.68
1:FA:1276:THR:O	9:FI:44:ASN:HB3	1.94	0.68
13:FM:32:ALA:HB3	14:FN:121:ILE:HD11	1.75	0.68
1:AA:97:TYR:O	1:AA:101:SER:OG	2.11	0.68
1:CA:618:TYR:HB3	1:CA:670:ILE:HD11	1.74	0.68
3:CC:90:SER:OG	3:CC:91:VAL:N	2.26	0.68
5:DE:86:PRO:HA	5:DE:113:GLN:HB2	1.76	0.68
1:FA:1136:VAL:HG11	1:FA:1140:PHE:HD2	1.59	0.68
13:BM:78:VAL:O	13:BM:91:TYR:N	2.26	0.68
14:BN:87:TYR:HB3	14:BN:139:VAL:HG12	1.73	0.68
1:DA:637:PHE:HD1	1:DA:638:PRO:HD2	1.58	0.68
1:EA:512:THR:OG1	1:EA:513:ALA:N	2.21	0.68
1:EA:574:ASN:N	1:EA:574:ASN:OD1	2.24	0.68
7:EG:45:LEU:HD11	7:EG:118:CYS:HB2	1.75	0.68
11:FK:88:PHE:HB3	11:FK:106:GLN:HB2	1.73	0.68
2:AB:431:ASP:HB3	2:AB:438:ILE:HD11	1.76	0.68
2:AB:833:PRO:HG2	2:AB:836:TRP:CZ2	2.29	0.68
9:AI:6:SER:H	9:AI:45:LEU:HD22	1.58	0.68
1:BA:1003:ARG:NH2	2:BB:520:LEU:HD22	2.08	0.68
5:BE:87:SER:HA	5:BE:115:ASN:HB3	1.76	0.68
1:CA:471:MET:HA	1:CA:474:LYS:HE3	1.76	0.68
1:DA:1242:ILE:HD11	1:DA:1517:ARG:HB3	1.76	0.68
3:DC:201:GLU:O	3:DC:202:ILE:HD12	1.93	0.68
1:EA:1007:ILE:HG22	2:EB:515:THR:HG22	1.75	0.68
2:EB:891:GLU:O	2:EB:894:LYS:N	2.26	0.68
5:EE:175:LEU:HD13	5:EE:176:PRO:HD2	1.76	0.68
1:FA:1215:VAL:HG22	1:FA:1216:THR:H	1.59	0.68
2:FB:52:LEU:HB3	2:FB:61:LEU:HD11	1.75	0.68
2:FB:834:LYS:C	2:FB:836:TRP:H	1.95	0.68
2:FB:834:LYS:O	2:FB:836:TRP:N	2.26	0.68
1:AA:471:MET:HA	1:AA:474:LYS:HE3	1.76	0.68
2:AB:138:LEU:HD22	2:AB:157:ASP:HA	1.75	0.68
2:AB:346:ASP:OD1	13:AM:113:ILE:HG23	1.93	0.68
1:BA:812:VAL:HG12	1:BA:813:LEU:HD23	1.75	0.68
1:CA:1447:GLN:HG3	1:CA:1460:TYR:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1563:VAL:HA	1:CA:1566:ILE:HD11	1.74	0.68
1:DA:964:LYS:NZ	1:DA:967:PRO:HA	2.09	0.68
3:EC:225:ALA:HB1	3:EC:302:VAL:HG22	1.75	0.68
5:EE:93:MET:HG2	5:EE:120:ALA:HB1	1.76	0.68
1:FA:1563:VAL:HA	1:FA:1566:ILE:HD11	1.76	0.68
1:AA:509:GLU:OE1	1:AA:584:ARG:NH1	2.25	0.68
1:AA:524:ILE:O	1:AA:554:ARG:NH1	2.27	0.68
1:AA:1563:VAL:HA	1:AA:1566:ILE:HD11	1.76	0.68
3:AC:135:SER:HA	3:AC:205:LYS:HA	1.74	0.68
9:AI:88:GLN:OE1	9:AI:119:TYR:HB2	1.94	0.68
1:BA:620:ASN:OD1	1:BA:667:ARG:NH2	2.26	0.68
1:BA:985:ARG:HD2	1:BA:987:TYR:HB3	1.74	0.68
2:BB:575:HIS:HE2	13:BM:76:TYR:HH	1.40	0.68
2:BB:906:ARG:NE	3:BC:95:GLU:OE2	2.27	0.68
1:CA:892:LEU:O	1:CA:896:THR:OG1	2.12	0.68
2:CB:749:THR:OG1	2:CB:763:ASP:OD1	2.11	0.68
1:DA:40:ASN:N	1:DA:40:ASN:OD1	2.26	0.68
2:DB:857:PRO:HA	2:DB:871:ILE:HD11	1.76	0.68
13:DM:21:VAL:HB	14:DN:109:LEU:HD11	1.76	0.68
2:EB:834:LYS:HB2	1:FA:553:GLN:NE2	2.09	0.68
8:EH:118:PHE:HB2	8:EH:121:LEU:HB2	1.76	0.68
3:FC:85:PHE:O	12:FL:64:LEU:HA	1.94	0.68
3:FC:329:LYS:HD2	11:FK:122:LYS:HE2	1.76	0.68
1:AA:1039:ARG:NH2	5:AE:168:TYR:O	2.27	0.68
2:AB:749:THR:OG1	2:AB:763:ASP:OD1	2.11	0.68
2:AB:833:PRO:O	2:AB:834:LYS:HB3	1.94	0.68
5:AE:156:LEU:HD21	5:AE:197:LYS:HB2	1.74	0.68
9:AI:13:CYS:SG	9:AI:14:GLY:N	2.67	0.68
1:CA:211:THR:HB	5:CE:173:SER:HB2	1.76	0.68
2:CB:554:GLN:HA	2:CB:646:HIS:CD2	2.29	0.68
5:CE:153:HIS:CD2	5:CE:184:VAL:HG11	2.29	0.68
1:EA:850:SER:OG	1:EA:851:VAL:N	2.26	0.68
2:EB:98:SER:OG	2:EB:99:VAL:N	2.27	0.68
3:EC:201:GLU:O	3:EC:202:ILE:HD12	1.94	0.68
3:EC:229:LEU:O	3:EC:293:ARG:NH1	2.26	0.68
14:EN:122:ALA:O	14:EN:130:PRO:HA	1.94	0.68
2:FB:134:ARG:HA	2:FB:163:VAL:HG23	1.75	0.68
14:FN:122:ALA:O	14:FN:130:PRO:HA	1.94	0.68
1:AA:936:SER:HB2	9:AI:112:TYR:OH	1.94	0.67
2:AB:327:LEU:HD13	2:AB:351:GLN:HG2	1.75	0.67
1:BA:882:ILE:HD13	1:BA:888:LYS:HB3	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1263:LEU:HB2	1:BA:1496:SER:HB2	1.75	0.67
2:CB:776:ILE:HB	2:CB:1026:ILE:HD13	1.75	0.67
2:DB:834:LYS:C	2:DB:836:TRP:H	1.97	0.67
2:DB:972:GLY:HA2	2:DB:977:ILE:HG22	1.76	0.67
1:EA:55:GLY:HA2	1:EA:72:CYS:SG	2.35	0.67
1:EA:560:GLN:O	1:EA:575:LYS:NZ	2.19	0.67
2:EB:162:PRO:HG3	2:EB:462:GLN:HG3	1.75	0.67
8:EH:63:LEU:HB2	8:EH:88:SER:HB2	1.76	0.67
9:EI:13:CYS:SG	9:EI:14:GLY:N	2.66	0.67
2:FB:138:LEU:HD22	2:FB:157:ASP:HA	1.75	0.67
5:AE:175:LEU:HD13	5:AE:176:PRO:HD2	1.77	0.67
2:BB:547:HIS:HB2	2:BB:760:TYR:OH	1.95	0.67
2:CB:575:HIS:HE2	13:CM:76:TYR:HH	1.40	0.67
1:DA:1657:LEU:HD11	6:DF:135:ARG:HB2	1.76	0.67
5:DE:198:ILE:HD11	5:DE:212:ARG:HG2	1.75	0.67
12:DL:45:ALA:O	12:DL:47:ARG:N	2.27	0.67
1:EA:637:PHE:HD1	1:EA:638:PRO:HD2	1.59	0.67
13:EM:12:ILE:CG2	14:EN:68:LYS:HA	2.23	0.67
1:FA:637:PHE:HD1	1:FA:638:PRO:HD2	1.59	0.67
1:AA:693:GLN:NE2	11:AK:87:GLU:O	2.24	0.67
1:BA:30:LYS:NZ	1:BA:51:ASP:OD2	2.22	0.67
1:BA:748:ASN:HD22	1:BA:748:ASN:N	1.92	0.67
1:BA:1028:GLU:HA	1:BA:1187:ILE:HG12	1.77	0.67
2:CB:161:LEU:HD12	2:CB:162:PRO:HD2	1.74	0.67
2:CB:213:HIS:HB2	2:CB:643:PHE:CZ	2.29	0.67
5:CE:6:GLU:HA	5:CE:9:ILE:HB	1.75	0.67
2:DB:396:ALA:HB1	2:DB:523:GLU:HG3	1.76	0.67
13:DM:12:ILE:CG2	14:DN:68:LYS:HA	2.24	0.67
1:EA:1657:LEU:HD11	6:EF:135:ARG:HB2	1.75	0.67
2:EB:1060:VAL:HG23	7:EO:316:GLU:OE1	1.93	0.67
5:EE:136:ASN:OD1	5:EE:138:ALA:N	2.26	0.67
7:EG:105:ILE:HG12	7:EG:116:THR:HB	1.74	0.67
1:FA:721:LYS:HG2	1:FA:722:PRO:HA	1.76	0.67
1:FA:1335:LYS:HD2	1:FA:1338:ARG:NH2	2.09	0.67
1:AA:850:SER:OG	1:AA:851:VAL:N	2.27	0.67
2:AB:130:LEU:HD22	2:AB:198:GLY:HA3	1.76	0.67
12:AL:34:CYS:SG	12:AL:36:SER:OG	2.53	0.67
1:BA:82:PRO:HG2	1:BA:396:ILE:HD12	1.75	0.67
1:BA:680:LEU:HD21	1:BA:731:ILE:HD12	1.77	0.67
13:BM:15:VAL:HG22	13:BM:90:LEU:HD12	1.75	0.67
8:CH:95:TYR:HD2	8:CH:144:ILE:HD13	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:418:VAL:HG11	7:DO:268:GLU:HG3	1.76	0.67
2:DB:845:LEU:HD12	12:DL:58:LYS:HD2	1.75	0.67
1:EA:1108:HIS:CG	1:EA:1117:SER:HB3	2.28	0.67
2:FB:104:ILE:HA	2:FB:137:LEU:HD22	1.75	0.67
8:FH:63:LEU:HB3	8:FH:89:LEU:HB3	1.76	0.67
1:AA:209:THR:HG21	5:AE:174:GLN:HG3	1.77	0.67
2:AB:170:CYS:SG	2:AB:171:HIS:N	2.66	0.67
2:AB:754:ALA:O	2:AB:756:LEU:N	2.28	0.67
5:AE:153:HIS:CD2	5:AE:184:VAL:HG11	2.29	0.67
2:BB:210:ARG:NH2	2:BB:625:GLU:OE2	2.27	0.67
2:BB:286:ARG:HG2	13:BM:27:PHE:CD1	2.29	0.67
1:CA:1016:SER:HB2	1:CA:1019:LEU:HD22	1.75	0.67
5:CE:133:GLU:HB3	5:CE:135:PHE:HE1	1.59	0.67
1:DA:618:TYR:HB3	1:DA:670:ILE:HD11	1.77	0.67
1:DA:1470:CYS:SG	1:DA:1471:GLU:N	2.68	0.67
5:DE:137:GLU:O	5:DE:139:ALA:N	2.28	0.67
2:FB:408:LEU:HA	2:FB:411:MET:HG3	1.76	0.67
14:FN:148:ILE:H	14:FN:148:ILE:HD12	1.58	0.67
1:AA:956:ARG:HE	1:AA:979:GLY:HA3	1.60	0.67
1:BA:1217:LEU:HD11	1:BA:1572:ARG:HD2	1.77	0.67
2:BB:152:LEU:HD13	2:BB:443:LYS:HG3	1.76	0.67
2:BB:833:PRO:O	2:BB:834:LYS:HB3	1.93	0.67
3:CC:228:ARG:NH1	14:CN:173:THR:OG1	2.27	0.67
1:DA:669:LEU:HD12	1:DA:786:TYR:CD1	2.29	0.67
2:EB:52:LEU:HB3	2:EB:61:LEU:HD11	1.76	0.67
13:EM:77:VAL:O	14:EN:56:ILE:HD12	1.95	0.67
2:FB:213:HIS:HB2	2:FB:643:PHE:CZ	2.30	0.67
2:FB:857:PRO:HA	2:FB:871:ILE:HD11	1.77	0.67
4:FD:82:LEU:HD22	7:FG:67:ASN:HD22	1.60	0.67
1:AA:1293:HIS:HE1	1:AA:1469:TRP:HB2	1.59	0.67
2:AB:845:LEU:HD12	12:AL:58:LYS:HD2	1.77	0.67
2:BB:832:TRP:HZ3	2:BB:834:LYS:HA	1.59	0.67
2:BB:834:LYS:C	2:BB:836:TRP:H	1.97	0.67
8:BH:93:TYR:HA	8:BH:145:ARG:HG3	1.74	0.67
9:BI:73:LYS:HA	9:BI:76:LEU:HD12	1.76	0.67
2:CB:752:VAL:HG21	2:CB:965:GLU:HG2	1.76	0.67
2:CB:906:ARG:NE	3:CC:95:GLU:OE2	2.26	0.67
1:DA:491:GLU:OE1	1:DA:815:ARG:NH2	2.16	0.67
1:DA:745:PRO:HG2	1:DA:1075:ALA:HB2	1.77	0.67
1:DA:1662:ASN:HB3	7:DG:57:PRO:HD2	1.77	0.67
2:DB:162:PRO:HG3	2:DB:462:GLN:HG3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1028:GLU:HA	1:EA:1187:ILE:HG12	1.77	0.67
1:FA:574:ASN:OD1	1:FA:574:ASN:N	2.24	0.67
1:BA:618:TYR:O	1:BA:621:THR:OG1	2.13	0.67
2:BB:833:PRO:HG2	2:BB:836:TRP:CZ2	2.30	0.67
4:BD:16:LEU:O	7:BG:64:GLN:NE2	2.28	0.67
1:DA:97:TYR:O	1:DA:101:SER:OG	2.13	0.67
14:DN:148:ILE:H	14:DN:148:ILE:HD12	1.59	0.67
7:DO:283:GLU:HA	7:DO:286:ILE:HD11	1.77	0.67
2:EB:738:ASP:N	2:EB:738:ASP:OD1	2.28	0.67
1:FA:812:VAL:HG12	1:FA:813:LEU:HD23	1.77	0.67
1:FA:945:CYS:HB3	1:FA:946:LEU:HD23	1.77	0.67
2:FB:612:LYS:NZ	2:FB:624:LEU:O	2.27	0.67
8:FH:57:VAL:HG13	8:FH:144:ILE:HG13	1.75	0.67
8:FH:107:VAL:HG23	8:FH:112:ILE:HA	1.77	0.67
2:AB:562:PRO:HG3	2:AB:588:ILE:HD13	1.77	0.67
1:BA:549:MET:SD	1:BA:553:GLN:HB2	2.34	0.67
1:BA:1215:VAL:HG22	1:BA:1216:THR:H	1.58	0.67
1:BA:1621:PHE:CD1	1:BA:1624:LYS:HE2	2.30	0.67
2:BB:72:VAL:HG22	2:BB:96:SER:HA	1.76	0.67
7:BO:276:LYS:O	7:BO:278:ILE:N	2.28	0.67
1:CA:125:LEU:HD11	1:CA:219:LEU:HD12	1.77	0.67
2:CB:52:LEU:HB3	2:CB:61:LEU:HD11	1.75	0.67
3:CC:255:VAL:HG12	3:CC:256:ILE:HG12	1.76	0.67
8:CH:136:LYS:HE3	13:EM:11:GLU:OE1	1.94	0.67
2:DB:655:TYR:HA	2:DB:688:HIS:CD2	2.29	0.67
1:EA:1261:VAL:HG12	1:EA:1498:ILE:HD12	1.75	0.67
10:FJ:2:ILE:HD12	10:FJ:57:ILE:HD13	1.76	0.67
2:AB:832:TRP:HZ3	2:AB:834:LYS:HA	1.59	0.67
2:BB:623:ASP:HA	2:BB:663:ILE:HG21	1.77	0.67
4:BD:44:ILE:HD13	4:BD:90:LYS:HG3	1.77	0.67
1:CA:461:GLU:HA	1:CA:465:GLY:HA2	1.77	0.67
2:CB:396:ALA:HB1	2:CB:523:GLU:HG3	1.77	0.67
2:CB:629:VAL:HG11	2:CB:636:GLN:HG2	1.77	0.67
2:DB:73:ILE:HD13	2:DB:74:PHE:H	1.59	0.67
7:DG:237:HIS:HB2	7:DG:244:SER:HB3	1.77	0.67
1:EA:669:LEU:HD22	1:EA:673:HIS:ND1	2.10	0.67
1:FA:850:SER:OG	1:FA:851:VAL:N	2.26	0.67
2:FB:229:TYR:HA	2:FB:253:LEU:HD22	1.77	0.67
1:AA:1028:GLU:HA	1:AA:1187:ILE:HG12	1.77	0.66
1:BA:113:VAL:HG13	1:BA:182:LYS:HG3	1.77	0.66
1:CA:945:CYS:HB3	1:CA:946:LEU:HD23	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:10:CYS:SG	10:CJ:43:ARG:NH1	2.67	0.66
2:DB:999:GLN:NE2	14:DN:166:LEU:HD21	2.10	0.66
1:EA:720:PHE:CZ	8:EH:141:TYR:HE2	2.14	0.66
2:EB:863:ASP:HB3	2:EB:866:LEU:HB2	1.75	0.66
13:FM:15:VAL:HG22	13:FM:90:LEU:HD12	1.76	0.66
14:AN:148:ILE:H	14:AN:148:ILE:HD12	1.60	0.66
2:BB:752:VAL:HG21	2:BB:965:GLU:HG2	1.77	0.66
8:CH:106:GLU:HA	8:CH:112:ILE:HG12	1.77	0.66
1:DA:55:GLY:HA2	1:DA:72:CYS:SG	2.35	0.66
1:DA:1322:ILE:HG21	1:DA:1457:ILE:HD11	1.76	0.66
13:EM:15:VAL:HG22	13:EM:90:LEU:HD12	1.75	0.66
1:AA:385:LEU:HD13	1:AA:437:PHE:HA	1.78	0.66
2:AB:210:ARG:NH2	2:AB:625:GLU:OE2	2.28	0.66
2:BB:863:ASP:HB3	2:BB:866:LEU:HB2	1.77	0.66
1:CA:574:ASN:N	1:CA:574:ASN:OD1	2.25	0.66
1:CA:715:LEU:HD22	1:CA:716:PRO:HD2	1.76	0.66
2:DB:520:LEU:CD2	2:DB:530:PRO:HA	2.26	0.66
2:DB:834:LYS:O	2:DB:836:TRP:N	2.28	0.66
4:DD:22:ILE:CD1	7:DG:45:LEU:HA	2.25	0.66
1:EA:850:SER:O	1:EA:852:ASP:N	2.28	0.66
2:EB:212:ASN:OD1	2:EB:212:ASN:N	2.28	0.66
2:EB:790:ASN:OD1	2:EB:792:SER:N	2.28	0.66
12:EL:53:HIS:O	12:EL:55:ILE:N	2.25	0.66
1:FA:974:THR:O	1:FA:974:THR:OG1	2.11	0.66
5:AE:5:ASN:HD21	5:AE:52:ARG:HH21	1.40	0.66
1:BA:194:ALA:O	1:BA:198:SER:OG	2.13	0.66
1:BA:581:ILE:HD11	1:BA:605:VAL:HG21	1.77	0.66
1:BA:637:PHE:HD1	1:BA:638:PRO:HD2	1.59	0.66
2:BB:834:LYS:O	2:BB:836:TRP:N	2.28	0.66
1:CA:956:ARG:HE	1:CA:979:GLY:HA3	1.60	0.66
2:CB:972:GLY:HA2	2:CB:977:ILE:HG22	1.78	0.66
3:CC:314:PHE:O	3:CC:317:SER:OG	2.14	0.66
1:DA:1220:PRO:O	1:DA:1223:ARG:N	2.29	0.66
2:DB:788:ILE:HB	2:DB:948:ILE:HB	1.77	0.66
4:ED:22:ILE:O	7:EG:76:LYS:NZ	2.27	0.66
9:EI:99:LEU:HB2	9:EI:111:PHE:HZ	1.59	0.66
1:FA:471:MET:HA	1:FA:474:LYS:HE3	1.77	0.66
2:FB:213:HIS:HB2	2:FB:643:PHE:HZ	1.59	0.66
2:FB:906:ARG:NE	3:FC:95:GLU:OE2	2.28	0.66
2:AB:972:GLY:HA2	2:AB:977:ILE:HG22	1.76	0.66
7:AG:153:PHE:HB3	7:AG:243:VAL:HG21	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:549:MET:SD	1:DA:553:GLN:HB2	2.35	0.66
1:DA:1482:LYS:NZ	2:DB:304:ASP:OD1	2.27	0.66
5:DE:133:GLU:HB3	5:DE:135:PHE:HE1	1.61	0.66
1:EA:425:ASN:OD1	7:EO:273:VAL:HG12	1.96	0.66
1:FA:522:ALA:HB1	1:FA:532:GLY:HA2	1.77	0.66
1:FA:748:ASN:ND2	1:FA:1072:ASN:OD1	2.28	0.66
3:FC:136:LEU:O	3:FC:203:SER:HA	1.96	0.66
12:FL:53:HIS:O	12:FL:55:ILE:N	2.26	0.66
1:AA:372:LYS:HB3	7:AO:297:LEU:HD22	1.78	0.66
1:AA:618:TYR:O	1:AA:621:THR:OG1	2.13	0.66
1:AA:1662:ASN:HB3	7:AG:57:PRO:HD2	1.77	0.66
2:AB:885:VAL:HG11	12:AL:58:LYS:HB3	1.76	0.66
3:BC:100:ARG:O	3:BC:103:LEU:N	2.21	0.66
4:BD:36:VAL:HG22	7:BG:38:ILE:HG21	1.77	0.66
1:CA:709:ARG:O	1:CA:711:LYS:N	2.23	0.66
9:CI:41:GLN:HB3	9:CI:42:PHE:CE2	2.31	0.66
14:CN:148:ILE:H	14:CN:148:ILE:HD12	1.60	0.66
1:EA:620:ASN:OD1	1:EA:667:ARG:NH2	2.28	0.66
1:FA:385:LEU:HD13	1:FA:437:PHE:HA	1.78	0.66
1:FA:758:GLU:O	1:FA:760:TRP:N	2.28	0.66
3:FC:100:ARG:HH12	3:FC:193:LEU:HA	1.61	0.66
7:FG:88:LYS:O	7:FG:118:CYS:HB3	1.95	0.66
2:AB:971:ALA:O	2:AB:974:LEU:N	2.28	0.66
11:AK:112:THR:N	11:AK:115:ASP:OD2	2.27	0.66
1:CA:641:GLU:HB2	6:CF:99:LEU:HD22	1.77	0.66
1:DA:1621:PHE:CD1	1:DA:1624:LYS:HE2	2.31	0.66
2:DB:17:ARG:HD2	2:DB:758:ASP:HB3	1.76	0.66
2:FB:752:VAL:HG21	2:FB:965:GLU:HG2	1.78	0.66
7:FG:24:VAL:O	7:FG:128:GLN:NE2	2.28	0.66
13:FM:78:VAL:O	13:FM:91:TYR:N	2.25	0.66
1:AA:11:ILE:HG21	2:AB:1198:TYR:HB2	1.77	0.66
1:AA:40:ASN:OD1	1:AA:40:ASN:N	2.28	0.66
2:AB:1026:ILE:HD11	2:AB:1028:VAL:HG13	1.77	0.66
9:AI:109:THR:OG1	9:AI:124:ASN:ND2	2.29	0.66
2:BB:751:ILE:HG12	2:BB:969:GLY:HA2	1.78	0.66
3:BC:126:PHE:HA	3:BC:130:ASN:ND2	2.09	0.66
1:CA:19:LEU:HB3	1:CA:24:ILE:HD11	1.76	0.66
1:CA:440:SER:N	1:CA:458:GLN:HE22	1.94	0.66
2:CB:1110:ILE:H	2:CB:1111:LEU:HD23	1.59	0.66
11:CK:98:GLU:O	11:CK:100:LEU:N	2.28	0.66
14:CN:87:TYR:HB3	14:CN:139:VAL:HG12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:812:VAL:HG12	1:DA:813:LEU:HD23	1.78	0.66
1:DA:1016:SER:HB2	1:DA:1019:LEU:HD22	1.75	0.66
10:DJ:10:CYS:SG	10:DJ:43:ARG:NH1	2.69	0.66
1:FA:669:LEU:HD22	1:FA:673:HIS:ND1	2.11	0.66
1:FA:720:PHE:CZ	8:FH:141:TYR:HE2	2.13	0.66
1:FA:968:SER:CB	2:FB:676:VAL:HG23	2.26	0.66
2:FB:396:ALA:HB1	2:FB:523:GLU:HG3	1.77	0.66
2:AB:213:HIS:HB2	2:AB:643:PHE:CZ	2.31	0.66
2:AB:751:ILE:HG12	2:AB:969:GLY:HA2	1.78	0.66
14:AN:97:SER:HA	14:AN:104:LEU:O	1.95	0.66
7:AO:300:VAL:O	7:AO:302:GLU:N	2.29	0.66
3:BC:333:ILE:CD1	11:BK:47:ILE:HG13	2.26	0.66
13:BM:21:VAL:HB	14:BN:109:LEU:HD11	1.77	0.66
1:CA:194:ALA:O	1:CA:198:SER:OG	2.13	0.66
1:CA:1487:ASN:O	1:CA:1490:GLU:N	2.28	0.66
5:CE:86:PRO:HA	5:CE:113:GLN:HB2	1.76	0.66
1:DA:440:SER:N	1:DA:458:GLN:HE22	1.93	0.66
14:DN:58:PHE:HA	14:DN:139:VAL:HG23	1.76	0.66
1:EA:669:LEU:HD12	1:EA:786:TYR:CD1	2.31	0.66
1:FA:804:GLU:OE1	1:FA:804:GLU:N	2.29	0.66
9:FI:6:SER:H	9:FI:45:LEU:HD22	1.60	0.66
1:AA:30:LYS:NZ	1:AA:51:ASP:OD2	2.19	0.66
1:AA:574:ASN:OD1	1:AA:574:ASN:N	2.29	0.66
1:BA:709:ARG:O	1:BA:711:LYS:N	2.25	0.66
2:BB:699:ILE:HD13	2:BB:699:ILE:H	1.60	0.66
5:BE:41:ASP:OD1	5:BE:41:ASP:N	2.25	0.66
1:CA:1647:ASN:HB3	1:CA:1649:VAL:HG23	1.77	0.66
2:DB:1026:ILE:HD11	2:DB:1028:VAL:HG13	1.78	0.66
8:EH:63:LEU:HB3	8:EH:89:LEU:HB3	1.77	0.66
1:FA:745:PRO:HG2	1:FA:1075:ALA:HB2	1.77	0.66
1:AA:1016:SER:HB2	1:AA:1019:LEU:HD22	1.77	0.65
3:AC:228:ARG:NH1	14:AN:173:THR:OG1	2.25	0.65
13:AM:10:ILE:HB	14:AN:70:LEU:HD21	1.76	0.65
1:BA:722:PRO:HD2	8:BH:46:LEU:HD13	1.78	0.65
1:BA:1273:THR:OG1	1:BA:1291:VAL:HB	1.96	0.65
1:DA:748:ASN:HD22	1:DA:748:ASN:N	1.93	0.65
8:DH:57:VAL:HG13	8:DH:144:ILE:HG13	1.77	0.65
9:DI:6:SER:H	9:DI:45:LEU:HD22	1.61	0.65
13:DM:77:VAL:O	14:DN:56:ILE:HD12	1.95	0.65
1:EA:618:TYR:O	1:EA:621:THR:OG1	2.13	0.65
3:EC:109:ASP:HB3	3:EC:112:MET:HE2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:1110:ILE:H	2:FB:1111:LEU:HD23	1.61	0.65
8:FH:106:GLU:HG2	8:FH:112:ILE:HD11	1.79	0.65
2:BB:212:ASN:ND2	2:BB:239:VAL:HG22	2.08	0.65
3:BC:229:LEU:O	3:BC:293:ARG:NH1	2.30	0.65
1:CA:974:THR:O	1:CA:974:THR:OG1	2.08	0.65
1:CA:1059:LYS:NZ	1:CA:1178:LEU:O	2.24	0.65
1:DA:385:LEU:HD13	1:DA:437:PHE:HA	1.77	0.65
1:EA:804:GLU:OE1	1:EA:804:GLU:N	2.29	0.65
1:EA:897:SER:HA	1:EA:900:VAL:HG22	1.78	0.65
2:EB:834:LYS:C	2:EB:836:TRP:H	1.97	0.65
3:EC:224:THR:HB	10:EJ:10:CYS:HB2	1.78	0.65
1:FA:715:LEU:HD22	1:FA:716:PRO:HD2	1.78	0.65
1:FA:1335:LYS:HD2	1:FA:1338:ARG:HH21	1.61	0.65
2:FB:251:HIS:HB2	2:FB:259:THR:OG1	1.97	0.65
5:FE:93:MET:HG2	5:FE:120:ALA:HB1	1.77	0.65
1:AA:865:ASP:OD2	1:AA:867:ASP:N	2.26	0.65
2:AB:1110:ILE:H	2:AB:1111:LEU:HD23	1.61	0.65
12:AL:40:LEU:HD22	12:AL:44:ASP:HB3	1.78	0.65
2:BB:262:PHE:CE2	2:BB:269:TYR:HB2	2.31	0.65
2:BB:562:PRO:HG3	2:BB:588:ILE:HD13	1.78	0.65
2:BB:612:LYS:NZ	2:BB:624:LEU:O	2.29	0.65
1:CA:1662:ASN:HB3	7:CG:57:PRO:HD2	1.78	0.65
12:CL:34:CYS:SG	12:CL:36:SER:OG	2.54	0.65
3:DC:328:LEU:HD11	11:DK:65:ILE:HD11	1.77	0.65
12:DL:33:GLU:HG2	12:DL:55:ILE:HG12	1.79	0.65
1:EA:469:LYS:NZ	7:EO:314:THR:O	2.30	0.65
2:EB:772:VAL:HG12	2:EB:946:ASP:H	1.62	0.65
13:EM:32:ALA:HB3	14:EN:121:ILE:HD11	1.78	0.65
1:AA:581:ILE:HD11	1:AA:605:VAL:HG21	1.79	0.65
1:AA:855:ARG:O	1:AA:858:ALA:N	2.29	0.65
11:AK:98:GLU:O	11:AK:100:LEU:N	2.28	0.65
1:BA:509:GLU:OE1	1:BA:584:ARG:NH1	2.29	0.65
1:BA:856:GLU:OE1	1:BA:857:ALA:N	2.29	0.65
7:CG:153:PHE:HB3	7:CG:243:VAL:HG21	1.79	0.65
2:DB:38:LEU:O	2:DB:41:ALA:N	2.22	0.65
3:DC:135:SER:HA	3:DC:205:LYS:HA	1.78	0.65
2:EB:104:ILE:HA	2:EB:137:LEU:HD22	1.78	0.65
1:FA:1273:THR:OG1	1:FA:1291:VAL:HB	1.96	0.65
2:FB:754:ALA:O	2:FB:756:LEU:N	2.28	0.65
3:FC:126:PHE:HA	3:FC:130:ASN:ND2	2.11	0.65
1:AA:399:LEU:HD11	7:AO:270:LEU:HD13	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:134:ARG:HA	2:AB:163:VAL:HG23	1.76	0.65
2:BB:213:HIS:HB2	2:BB:643:PHE:HZ	1.61	0.65
1:CA:1638:SER:HA	1:CA:1641:ILE:HD12	1.77	0.65
2:CB:833:PRO:O	2:CB:834:LYS:HB3	1.95	0.65
11:CK:58:GLY:C	11:CK:60:SER:H	2.00	0.65
1:DA:1059:LYS:NZ	1:DA:1178:LEU:O	2.27	0.65
5:DE:147:HIS:HB3	5:DE:150:VAL:HG23	1.78	0.65
2:EB:520:LEU:CD2	2:EB:530:PRO:HA	2.25	0.65
2:EB:751:ILE:HG23	2:EB:752:VAL:HG22	1.76	0.65
1:FA:511:VAL:HG22	1:FA:519:LEU:HD12	1.79	0.65
1:FA:693:GLN:NE2	11:FK:87:GLU:O	2.26	0.65
1:FA:1094:ALA:HB2	1:FA:1132:TYR:HB3	1.79	0.65
5:FE:48:ASP:O	5:FE:50:MET:N	2.28	0.65
7:FG:105:ILE:HG12	7:FG:116:THR:HB	1.77	0.65
7:FG:237:HIS:HB2	7:FG:244:SER:HB3	1.79	0.65
1:AA:1305:GLU:HG3	9:AI:60:LEU:HG	1.77	0.65
13:BM:32:ALA:HB3	14:BN:121:ILE:HD11	1.77	0.65
1:CA:812:VAL:HG12	1:CA:813:LEU:HD23	1.77	0.65
1:DA:1273:THR:OG1	1:DA:1291:VAL:HB	1.96	0.65
6:DF:147:SER:HB3	6:DF:150:GLU:HG2	1.79	0.65
1:EA:471:MET:HA	1:EA:474:LYS:HE3	1.77	0.65
2:EB:629:VAL:HG11	2:EB:636:GLN:HG2	1.77	0.65
2:EB:674:ILE:HG23	2:EB:688:HIS:HB2	1.77	0.65
5:EE:192:ARG:NH2	5:EE:215:MET:O	2.29	0.65
9:EI:73:LYS:HA	9:EI:76:LEU:HD12	1.78	0.65
1:FA:596:HIS:CD2	1:FA:596:HIS:H	2.15	0.65
2:FB:262:PHE:CZ	2:FB:269:TYR:HB2	2.31	0.65
1:AA:55:GLY:HA2	1:AA:72:CYS:SG	2.37	0.65
1:AA:964:LYS:NZ	1:AA:967:PRO:HA	2.11	0.65
3:AC:128:ASP:OD1	3:AC:174:ARG:NH1	2.28	0.65
7:AG:237:HIS:HB2	7:AG:244:SER:HB3	1.79	0.65
2:BB:738:ASP:N	2:BB:738:ASP:OD1	2.29	0.65
7:BG:37:CYS:HB3	7:BG:125:TRP:CD1	2.32	0.65
1:CA:123:ARG:HD3	1:CA:337:TYR:CE1	2.32	0.65
1:CA:1273:THR:HA	9:CI:48:VAL:HG22	1.78	0.65
2:CB:98:SER:HA	2:CB:421:LEU:HD21	1.79	0.65
3:CC:85:PHE:O	12:CL:64:LEU:HA	1.97	0.65
1:DA:975:ASP:OD1	1:DA:976:ALA:N	2.29	0.65
1:EA:1662:ASN:HB3	7:EG:57:PRO:HD2	1.77	0.65
2:EB:903:ILE:HD13	2:EB:905:TYR:CE1	2.31	0.65
1:FA:1333:ILE:HD11	1:FA:1483:LEU:HD11	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:971:ALA:O	2:FB:974:LEU:N	2.30	0.65
9:FI:13:CYS:SG	9:FI:14:GLY:N	2.69	0.65
1:AA:99:ARG:O	1:AA:109:ARG:NH2	2.29	0.65
1:CA:1252:ASP:HA	1:CA:1255:CYS:SG	2.36	0.65
1:EA:1288:ARG:HB2	1:EA:1478:ALA:HA	1.78	0.65
5:EE:86:PRO:HA	5:EE:113:GLN:HB2	1.79	0.65
12:EL:34:CYS:SG	12:EL:36:SER:OG	2.54	0.65
1:FA:125:LEU:HD11	1:FA:219:LEU:HD12	1.79	0.65
1:FA:1545:ASP:OD1	1:FA:1546:VAL:N	2.27	0.65
2:AB:17:ARG:HD2	2:AB:758:ASP:HB3	1.79	0.65
2:AB:262:PHE:CE2	2:AB:269:TYR:HB2	2.32	0.65
2:AB:520:LEU:CD2	2:AB:530:PRO:HA	2.26	0.65
1:BA:809:VAL:HG13	1:BA:813:LEU:HD11	1.79	0.65
2:BB:127:ARG:NH1	2:BB:185:GLU:OE2	2.29	0.65
2:BB:520:LEU:CD2	2:BB:530:PRO:HA	2.27	0.65
5:BE:93:MET:HG2	5:BE:120:ALA:HB1	1.77	0.65
14:BN:148:ILE:HD12	14:BN:148:ILE:H	1.62	0.65
1:CA:964:LYS:NZ	1:CA:967:PRO:HA	2.10	0.65
1:CA:1009:THR:HG21	9:CI:101:LEU:HD23	1.79	0.65
10:CJ:45:CYS:O	10:CJ:48:ARG:HB3	1.96	0.65
1:DA:1272:VAL:HG12	1:DA:1273:THR:H	1.62	0.65
13:DM:40:LEU:HD12	13:DM:41:TYR:H	1.62	0.65
1:EA:1333:ILE:HD11	1:EA:1483:LEU:HD11	1.79	0.65
2:EB:754:ALA:O	2:EB:756:LEU:N	2.30	0.65
2:FB:832:TRP:HZ3	2:FB:834:LYS:HA	1.61	0.65
1:AA:19:LEU:HB3	1:AA:24:ILE:HD11	1.79	0.65
2:AB:629:VAL:HG11	2:AB:636:GLN:HG2	1.77	0.65
9:AI:99:LEU:HB2	9:AI:111:PHE:HZ	1.61	0.65
13:AM:112:LYS:HG3	13:AM:113:ILE:HD12	1.78	0.65
7:AO:272:ILE:HG22	7:AO:275:ASN:HD21	1.62	0.65
1:BA:560:GLN:O	1:BA:575:LYS:NZ	2.18	0.65
1:BA:1237:GLN:H	1:BA:1544:ASN:HB3	1.60	0.65
3:BC:128:ASP:OD1	3:BC:174:ARG:NH1	2.30	0.65
3:BC:277:ARG:HG3	3:BC:291:LEU:HD13	1.79	0.65
11:BK:112:THR:N	11:BK:115:ASP:OD2	2.28	0.65
1:DA:194:ALA:O	1:DA:198:SER:OG	2.14	0.65
1:DA:693:GLN:NE2	11:DK:87:GLU:O	2.22	0.65
1:DA:693:GLN:OE1	11:DK:88:PHE:HA	1.97	0.65
1:DA:709:ARG:O	1:DA:711:LYS:N	2.26	0.65
1:DA:964:LYS:HZ1	1:DA:967:PRO:HA	1.62	0.65
2:DB:474:SER:O	2:DB:476:LEU:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:790:ASN:OD1	2:DB:792:SER:N	2.29	0.65
6:DF:128:LYS:NZ	6:DF:148:VAL:O	2.26	0.65
1:EA:641:GLU:HB2	6:EF:99:LEU:HD22	1.79	0.65
2:EB:17:ARG:HD2	2:EB:758:ASP:HB3	1.79	0.65
1:FA:1016:SER:HB2	1:FA:1019:LEU:HD22	1.79	0.65
1:FA:1237:GLN:H	1:FA:1544:ASN:HB3	1.61	0.65
1:FA:1601:GLN:O	1:FA:1603:MET:N	2.26	0.65
2:FB:130:LEU:HD22	2:FB:198:GLY:HA3	1.79	0.65
11:FK:98:GLU:O	11:FK:100:LEU:N	2.31	0.65
7:FO:266:GLN:OE1	7:FO:267:ALA:N	2.30	0.65
7:AG:24:VAL:O	7:AG:128:GLN:NE2	2.28	0.64
9:AI:41:GLN:HB3	9:AI:42:PHE:CE2	2.31	0.64
5:BE:156:LEU:HD21	5:BE:197:LYS:HB2	1.79	0.64
1:CA:596:HIS:H	1:CA:596:HIS:CD2	2.16	0.64
7:CG:237:HIS:HB2	7:CG:244:SER:HB3	1.79	0.64
1:DA:19:LEU:HB3	1:DA:24:ILE:HD11	1.80	0.64
1:DA:1012:LYS:HE3	2:DB:515:THR:HG23	1.79	0.64
2:DB:833:PRO:HG2	2:DB:836:TRP:CZ2	2.31	0.64
1:EA:855:ARG:O	1:EA:858:ALA:N	2.30	0.64
8:EH:57:VAL:HG13	8:EH:144:ILE:HG13	1.77	0.64
8:FH:62:SER:OG	8:FH:63:LEU:N	2.29	0.64
12:FL:45:ALA:O	12:FL:47:ARG:N	2.30	0.64
2:CB:162:PRO:HG3	2:CB:462:GLN:HG3	1.77	0.64
2:CB:967:LEU:H	2:CB:967:LEU:HD12	1.61	0.64
3:CC:253:PRO:HG2	14:CN:180:PHE:CD1	2.32	0.64
6:CF:128:LYS:NZ	6:CF:148:VAL:O	2.25	0.64
13:CM:32:ALA:HB3	14:CN:121:ILE:HD11	1.79	0.64
14:CN:71:PRO:HB2	14:CN:89:ILE:HD12	1.77	0.64
1:DA:882:ILE:HD13	1:DA:888:LYS:HB3	1.79	0.64
1:DA:974:THR:O	1:DA:974:THR:OG1	2.08	0.64
1:DA:1235:THR:O	1:DA:1544:ASN:ND2	2.30	0.64
9:DI:41:GLN:HB3	9:DI:42:PHE:CE2	2.32	0.64
1:EA:391:THR:HG21	7:EO:284:VAL:HG21	1.77	0.64
1:EA:596:HIS:H	1:EA:596:HIS:CD2	2.15	0.64
1:EA:1545:ASP:OD1	1:EA:1546:VAL:N	2.28	0.64
9:EI:41:GLN:HB3	9:EI:42:PHE:CE2	2.32	0.64
10:EJ:45:CYS:O	10:EJ:48:ARG:HB3	1.96	0.64
1:FA:99:ARG:O	1:FA:109:ARG:NH2	2.30	0.64
13:AM:78:VAL:O	13:AM:91:TYR:N	2.27	0.64
1:BA:1217:LEU:HD13	1:BA:1573:TYR:HE1	1.62	0.64
1:CA:615:ARG:NH2	2:CB:928:SER:OG	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:403:LEU:HD11	2:CB:408:LEU:HB2	1.79	0.64
2:CB:834:LYS:C	2:CB:836:TRP:H	1.99	0.64
8:CH:30:SER:HB3	8:CH:36:CYS:HB3	1.79	0.64
2:DB:612:LYS:NZ	2:DB:624:LEU:O	2.30	0.64
2:EB:212:ASN:ND2	2:EB:239:VAL:HG22	2.11	0.64
13:EM:78:VAL:O	13:EM:91:TYR:N	2.26	0.64
11:FK:49:LEU:HD12	11:FK:62:SER:O	1.98	0.64
2:AB:467:THR:HB	2:AB:469:ASN:HD22	1.62	0.64
1:BA:715:LEU:HD22	1:BA:716:PRO:HD2	1.77	0.64
1:BA:804:GLU:OE1	1:BA:804:GLU:N	2.30	0.64
1:BA:1216:THR:OG1	1:BA:1234:LYS:HB2	1.97	0.64
2:BB:17:ARG:HD2	2:BB:758:ASP:HB3	1.79	0.64
3:BC:198:PRO:O	10:BJ:64:ASN:ND2	2.27	0.64
4:BD:36:VAL:HG21	7:BG:38:ILE:HD13	1.79	0.64
1:CA:975:ASP:OD1	1:CA:976:ALA:N	2.30	0.64
1:CA:1474:LEU:HD13	1:CA:1475:GLU:H	1.62	0.64
2:CB:699:ILE:H	2:CB:699:ILE:HD13	1.60	0.64
2:DB:567:SER:HB2	14:DN:59:PRO:HB3	1.79	0.64
8:DH:118:PHE:HB2	8:DH:121:LEU:HB2	1.78	0.64
3:EC:100:ARG:HH12	3:EC:193:LEU:HA	1.62	0.64
1:FA:964:LYS:NZ	1:FA:967:PRO:HA	2.12	0.64
4:FD:89:LEU:HA	4:FD:92:ILE:HD12	1.79	0.64
1:AA:470:HIS:O	2:AB:1058:GLN:NE2	2.29	0.64
1:AA:945:CYS:HB3	1:AA:946:LEU:HD23	1.78	0.64
1:BA:461:GLU:HA	1:BA:465:GLY:HA2	1.78	0.64
1:CA:1333:ILE:HD11	1:CA:1483:LEU:HD11	1.80	0.64
1:CA:1658:ALA:HB2	7:CG:107:ILE:HD11	1.79	0.64
2:CB:588:ILE:O	2:CB:591:LYS:HG2	1.97	0.64
2:CB:891:GLU:O	2:CB:894:LYS:N	2.30	0.64
1:DA:1508:VAL:O	1:DA:1510:PRO:HD3	1.98	0.64
2:DB:109:SER:OG	2:DB:110:ASN:N	2.28	0.64
2:EB:73:ILE:HD13	2:EB:74:PHE:H	1.62	0.64
2:EB:833:PRO:O	2:EB:834:LYS:HB3	1.97	0.64
1:FA:524:ILE:O	1:FA:554:ARG:NH1	2.29	0.64
1:FA:620:ASN:OD1	1:FA:667:ARG:NH2	2.29	0.64
2:FB:327:LEU:HD13	2:FB:351:GLN:HG2	1.79	0.64
2:FB:886:ASN:O	2:FB:902:SER:N	2.21	0.64
1:AA:960:MET:O	1:AA:963:GLY:N	2.28	0.64
1:BA:897:SER:HA	1:BA:900:VAL:HG22	1.80	0.64
2:CB:772:VAL:HG12	2:CB:946:ASP:H	1.62	0.64
3:CC:225:ALA:HB1	3:CC:302:VAL:HG22	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:63:LEU:HB3	8:CH:89:LEU:HB3	1.77	0.64
13:CM:77:VAL:O	14:CN:56:ILE:HD12	1.98	0.64
1:DA:748:ASN:ND2	1:DA:1072:ASN:OD1	2.30	0.64
2:DB:848:ILE:HD11	12:DL:58:LYS:HD3	1.79	0.64
5:FE:55:ARG:NH2	5:FE:113:GLN:OE1	2.31	0.64
2:AB:97:VAL:HG13	2:AB:141:LEU:HD11	1.80	0.64
13:BM:12:ILE:HG21	14:BN:68:LYS:HA	1.79	0.64
1:CA:1557:ALA:HB2	5:CE:150:VAL:HG22	1.80	0.64
2:CB:134:ARG:HA	2:CB:163:VAL:HG23	1.77	0.64
8:CH:107:VAL:HG23	8:CH:112:ILE:HA	1.79	0.64
1:DA:96:ILE:HG23	1:DA:228:LEU:HD21	1.78	0.64
8:DH:30:SER:HB3	8:DH:36:CYS:HB3	1.80	0.64
1:EA:721:LYS:HG2	1:EA:722:PRO:HA	1.78	0.64
1:EA:1601:GLN:O	1:EA:1603:MET:N	2.28	0.64
1:EA:1647:ASN:HB3	1:EA:1649:VAL:HG23	1.79	0.64
3:EC:128:ASP:OD1	3:EC:174:ARG:NH1	2.28	0.64
4:ED:36:VAL:HG21	7:EG:38:ILE:HD13	1.79	0.64
2:FB:782:ASP:HB3	2:FB:788:ILE:HG12	1.77	0.64
2:FB:790:ASN:OD1	2:FB:792:SER:N	2.31	0.64
1:AA:620:ASN:OD1	1:AA:667:ARG:NH2	2.30	0.64
1:AA:818:THR:HG23	2:AB:780:GLY:HA3	1.79	0.64
1:BA:945:CYS:HB3	1:BA:946:LEU:HD23	1.80	0.64
5:BE:137:GLU:O	5:BE:139:ALA:N	2.30	0.64
1:CA:637:PHE:HD1	1:CA:638:PRO:HD2	1.63	0.64
1:CA:850:SER:OG	1:CA:851:VAL:N	2.31	0.64
7:CG:88:LYS:O	7:CG:118:CYS:HB3	1.97	0.64
12:CL:30:ILE:O	12:CL:57:LEU:HD12	1.97	0.64
2:DB:833:PRO:O	2:DB:834:LYS:HB3	1.97	0.64
1:EA:1335:LYS:HD2	1:EA:1338:ARG:NH2	2.12	0.64
2:EB:18:THR:HA	2:EB:21:ARG:HH21	1.62	0.64
14:FN:55:LEU:HD12	14:FN:56:ILE:H	1.61	0.64
2:BB:655:TYR:HA	2:BB:688:HIS:CD2	2.30	0.64
8:BH:62:SER:OG	8:BH:63:LEU:N	2.31	0.64
1:DA:102:CYS:HB2	1:DA:109:ARG:HG2	1.80	0.64
1:DA:1590:THR:OG1	5:DE:212:ARG:NH2	2.30	0.64
2:DB:104:ILE:HA	2:DB:137:LEU:HD22	1.79	0.64
1:EA:141:LEU:HG	1:EA:142:GLY:H	1.62	0.64
1:EA:461:GLU:HA	1:EA:465:GLY:HA2	1.79	0.64
1:EA:1293:HIS:HE1	1:EA:1469:TRP:HB2	1.63	0.64
1:EA:1563:VAL:HA	1:EA:1566:ILE:HD11	1.80	0.64
2:EB:675:ALA:O	2:EB:690:GLU:HG2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:325:ALA:O	3:EC:328:LEU:N	2.31	0.64
1:FA:1242:ILE:HD11	1:FA:1517:ARG:HB3	1.80	0.64
2:FB:751:ILE:HG12	2:FB:969:GLY:HA2	1.80	0.64
2:FB:887:LEU:O	2:FB:888:ILE:HD12	1.98	0.64
2:FB:1002:LYS:NZ	14:FN:166:LEU:HD13	2.13	0.64
3:FC:201:GLU:O	3:FC:202:ILE:HD12	1.98	0.64
4:FD:22:ILE:HD12	7:FG:45:LEU:HA	1.80	0.64
2:AB:262:PHE:CZ	2:AB:269:TYR:HB2	2.33	0.64
1:BA:549:MET:SD	1:BA:553:GLN:NE2	2.71	0.64
2:BB:972:GLY:HA2	2:BB:977:ILE:HG22	1.80	0.64
3:BC:224:THR:HB	10:BJ:10:CYS:HB2	1.80	0.64
2:CB:17:ARG:HD2	2:CB:758:ASP:HB3	1.80	0.64
8:CH:63:LEU:HB2	8:CH:88:SER:HB2	1.80	0.64
1:DA:1215:VAL:HG22	1:DA:1216:THR:H	1.63	0.64
2:DB:776:ILE:HB	2:DB:1026:ILE:HD13	1.80	0.64
2:DB:891:GLU:O	2:DB:894:LYS:N	2.26	0.64
2:DB:1046:VAL:HG22	2:DB:1047:ARG:H	1.63	0.64
2:EB:1037:ARG:O	2:EB:1039:MET:N	2.30	0.64
7:EG:237:HIS:HB2	7:EG:244:SER:HB3	1.80	0.64
14:EN:105:SER:OG	14:EN:132:GLN:NE2	2.31	0.64
2:FB:655:TYR:HD1	2:FB:688:HIS:HE2	1.46	0.64
2:FB:843:ASP:OD1	2:FB:845:LEU:HG	1.98	0.64
5:CE:198:ILE:HD11	5:CE:212:ARG:HG2	1.80	0.63
1:DA:349:LEU:HD12	1:DA:351:LYS:HE3	1.80	0.63
1:DA:1003:ARG:CZ	2:DB:520:LEU:HD22	2.28	0.63
1:DA:1202:LEU:HD11	9:DI:101:LEU:HD11	1.79	0.63
1:EA:440:SER:N	1:EA:458:GLN:HE22	1.95	0.63
2:EB:848:ILE:HD11	12:EL:58:LYS:HD3	1.80	0.63
10:FJ:7:CYS:SG	10:FJ:8:PHE:N	2.71	0.63
13:FM:112:LYS:HG3	13:FM:113:ILE:HD12	1.80	0.63
1:AA:1059:LYS:NZ	1:AA:1178:LEU:O	2.27	0.63
1:AA:1252:ASP:HA	1:AA:1255:CYS:SG	2.38	0.63
2:AB:857:PRO:HA	2:AB:871:ILE:HD11	1.79	0.63
1:BA:596:HIS:H	1:BA:596:HIS:CD2	2.17	0.63
12:BL:45:ALA:O	12:BL:47:ARG:N	2.32	0.63
1:CA:719:ILE:HG12	8:CH:97:MET:HG2	1.81	0.63
1:DA:519:LEU:O	1:DA:523:VAL:HG23	1.98	0.63
2:DB:72:VAL:HG22	2:DB:96:SER:HA	1.79	0.63
2:DB:832:TRP:CZ3	2:DB:834:LYS:HA	2.32	0.63
9:DI:38:PRO:HG2	9:DI:41:GLN:HB2	1.79	0.63
2:EB:1143:THR:HG23	7:EG:18:LYS:HE2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1059:LYS:NZ	1:FA:1178:LEU:O	2.26	0.63
3:FC:197:ARG:HG2	10:FJ:61:LEU:HD22	1.80	0.63
2:AB:52:LEU:HB3	2:AB:61:LEU:HD11	1.78	0.63
2:AB:213:HIS:HB2	2:AB:643:PHE:HZ	1.63	0.63
2:AB:1195:ARG:HH21	2:AB:1197:ARG:HD2	1.64	0.63
1:BA:1305:GLU:HG3	9:BI:60:LEU:HG	1.79	0.63
2:CB:783:MET:O	2:CB:785:ASP:N	2.32	0.63
2:DB:897:GLU:HB3	12:DL:43:THR:HG23	1.80	0.63
11:DK:49:LEU:HD12	11:DK:62:SER:O	1.98	0.63
1:EA:1215:VAL:HG22	1:EA:1216:THR:H	1.64	0.63
2:EB:311:ARG:HH22	9:EI:8:ILE:HD12	1.63	0.63
3:EC:77:SER:O	3:EC:210:LEU:HA	1.98	0.63
1:FA:1246:VAL:HG13	1:FA:1250:GLN:HB3	1.80	0.63
1:AA:1661:PRO:HA	7:AG:102:GLU:HA	1.79	0.63
2:AB:834:LYS:C	2:AB:836:TRP:H	2.02	0.63
7:AG:250:ILE:HG22	7:AG:251:SER:H	1.63	0.63
1:DA:1326:GLU:OE1	1:DA:1454:HIS:HB3	1.99	0.63
2:DB:262:PHE:CE2	2:DB:269:TYR:HB2	2.33	0.63
2:EB:728:THR:OG1	2:EB:766:PRO:O	2.13	0.63
3:EC:101:ILE:HA	3:EC:104:VAL:HG23	1.80	0.63
2:FB:72:VAL:HG22	2:FB:96:SER:HA	1.80	0.63
2:FB:162:PRO:HG3	2:FB:462:GLN:HG3	1.79	0.63
3:FC:100:ARG:O	3:FC:103:LEU:N	2.24	0.63
3:AC:126:PHE:HA	3:AC:130:ASN:ND2	2.13	0.63
8:AH:107:VAL:HG23	8:AH:112:ILE:HA	1.80	0.63
1:BA:511:VAL:HG22	1:BA:519:LEU:HD12	1.81	0.63
2:BB:295:ASN:HB3	14:BN:104:LEU:HD13	1.79	0.63
1:CA:1620:GLN:O	1:CA:1623:THR:N	2.32	0.63
7:CG:139:ILE:HD12	7:CG:140:GLN:H	1.63	0.63
9:CI:38:PRO:HG2	9:CI:41:GLN:HB2	1.79	0.63
1:DA:1264:SER:O	9:DI:56:PHE:HB3	1.98	0.63
4:DD:22:ILE:HG23	7:DG:44:ALA:O	1.98	0.63
8:DH:38:LEU:HD11	8:DH:123:MET:HG3	1.80	0.63
1:EA:1305:GLU:HG3	9:EI:60:LEU:HG	1.79	0.63
4:FD:36:VAL:HG21	7:FG:38:ILE:HD13	1.79	0.63
1:AA:510:PRO:O	1:AA:515:ASN:ND2	2.30	0.63
5:AE:133:GLU:HB3	5:AE:135:PHE:HE1	1.63	0.63
11:AK:58:GLY:C	11:AK:60:SER:H	2.01	0.63
1:BA:669:LEU:HD13	1:BA:673:HIS:HB3	1.80	0.63
2:BB:754:ALA:O	2:BB:756:LEU:N	2.31	0.63
1:CA:1195:GLU:O	1:CA:1198:THR:OG1	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1246:VAL:HG22	1:CA:1250:GLN:NE2	2.14	0.63
3:CC:164:ALA:HB2	3:CC:191:ILE:HB	1.80	0.63
1:DA:1136:VAL:HG11	1:DA:1140:PHE:HD2	1.63	0.63
2:DB:403:LEU:HD11	2:DB:408:LEU:HB2	1.81	0.63
2:DB:699:ILE:HD13	2:DB:699:ILE:H	1.62	0.63
3:DC:255:VAL:HG12	3:DC:256:ILE:HG12	1.79	0.63
7:DG:40:ARG:NH1	7:DG:123:TYR:OH	2.31	0.63
11:DK:49:LEU:HD11	11:DK:54:THR:HG21	1.81	0.63
2:EB:109:SER:OG	2:EB:110:ASN:N	2.31	0.63
8:EH:106:GLU:HA	8:EH:112:ILE:HG12	1.78	0.63
13:FM:77:VAL:O	14:FN:56:ILE:HD12	1.98	0.63
1:AA:1263:LEU:HB2	1:AA:1496:SER:HB2	1.80	0.63
2:AB:738:ASP:N	2:AB:738:ASP:OD1	2.32	0.63
8:AH:106:GLU:HA	8:AH:112:ILE:HG12	1.80	0.63
13:AM:12:ILE:HG21	14:AN:68:LYS:HA	1.81	0.63
1:BA:19:LEU:HB3	1:BA:24:ILE:HD11	1.80	0.63
1:BA:975:ASP:OD1	1:BA:976:ALA:N	2.31	0.63
2:BB:749:THR:OG1	2:BB:763:ASP:OD1	2.17	0.63
3:BC:101:ILE:HA	3:BC:104:VAL:HG23	1.79	0.63
10:CJ:7:CYS:SG	10:CJ:8:PHE:N	2.71	0.63
1:DA:511:VAL:HG22	1:DA:519:LEU:HD12	1.81	0.63
1:DA:1563:VAL:HA	1:DA:1566:ILE:HD11	1.81	0.63
2:DB:554:GLN:HA	2:DB:646:HIS:CD2	2.33	0.63
2:DB:749:THR:OG1	2:DB:763:ASP:OD1	2.17	0.63
1:EA:1454:HIS:HB2	1:EA:1457:ILE:HG13	1.79	0.63
2:EB:857:PRO:HA	2:EB:871:ILE:HD11	1.80	0.63
2:EB:906:ARG:NE	3:EC:95:GLU:OE2	2.32	0.63
2:FB:833:PRO:O	2:FB:834:LYS:HB3	1.97	0.63
8:FH:106:GLU:HA	8:FH:112:ILE:HG12	1.80	0.63
1:AA:82:PRO:HG2	1:AA:396:ILE:HD12	1.81	0.63
3:AC:164:ALA:HB2	3:AC:191:ILE:HB	1.80	0.63
1:BA:1288:ARG:HB2	1:BA:1478:ALA:HA	1.81	0.63
2:BB:783:MET:O	2:BB:785:ASP:N	2.32	0.63
6:BF:128:LYS:NZ	6:BF:148:VAL:O	2.31	0.63
10:BJ:2:ILE:HG12	10:BJ:3:VAL:H	1.62	0.63
2:CB:327:LEU:HD13	2:CB:351:GLN:HG2	1.78	0.63
2:CB:833:PRO:HG2	2:CB:836:TRP:CZ2	2.33	0.63
2:CB:1178:ILE:HD12	2:CB:1179:PRO:O	1.99	0.63
3:CC:128:ASP:OD1	3:CC:174:ARG:NH1	2.29	0.63
7:CG:40:ARG:HD3	7:CG:123:TYR:HE1	1.64	0.63
1:DA:58:LEU:HD11	7:DO:295:LEU:HD11	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:125:LEU:HD11	1:DA:219:LEU:HD12	1.79	0.63
3:DC:224:THR:HB	10:DJ:10:CYS:HB2	1.81	0.63
12:DL:34:CYS:SG	12:DL:36:SER:OG	2.57	0.63
1:EA:11:ILE:HG21	2:EB:1198:TYR:HB2	1.79	0.63
1:EA:966:LEU:HD12	1:EA:967:PRO:HD2	1.80	0.63
1:EA:1456:PHE:CB	1:EA:1474:LEU:HD11	2.28	0.63
2:EB:327:LEU:HD13	2:EB:351:GLN:HG2	1.81	0.63
2:EB:403:LEU:HD11	2:EB:408:LEU:HB2	1.79	0.63
2:EB:1017:ALA:O	3:EC:65:ASN:ND2	2.32	0.63
1:FA:1322:ILE:HG21	1:FA:1457:ILE:HD11	1.81	0.63
1:FA:1647:ASN:HD22	1:FA:1648:ASN:H	1.47	0.63
2:FB:520:LEU:CD2	2:FB:530:PRO:HA	2.28	0.63
9:FI:99:LEU:HB2	9:FI:111:PHE:HZ	1.63	0.63
1:AA:1236:PRO:HB2	1:AA:1524:VAL:HG23	1.80	0.63
1:AA:1508:VAL:O	1:AA:1510:PRO:HD3	1.99	0.63
1:AA:1638:SER:HA	1:AA:1641:ILE:HD12	1.79	0.63
2:AB:898:LEU:HD22	12:AL:46:VAL:HG22	1.80	0.63
2:BB:811:LEU:HD13	2:BB:823:GLN:HE21	1.64	0.63
5:BE:86:PRO:HA	5:BE:113:GLN:HB2	1.80	0.63
8:BH:95:TYR:HD2	8:BH:144:ILE:HD13	1.64	0.63
2:CB:773:VAL:HG21	2:CB:1031:VAL:HB	1.81	0.63
1:DA:113:VAL:HG13	1:DA:182:LYS:HG3	1.80	0.63
1:DA:729:LYS:HD2	8:DH:120:GLY:HA3	1.80	0.63
1:DA:752:LYS:HG3	1:DA:768:GLU:HA	1.80	0.63
5:DE:5:ASN:ND2	5:DE:52:ARG:HH21	1.93	0.63
7:DG:88:LYS:O	7:DG:118:CYS:HB3	1.98	0.63
8:DH:95:TYR:HD2	8:DH:144:ILE:HD13	1.63	0.63
1:EA:964:LYS:HZ1	1:EA:967:PRO:HA	1.64	0.63
2:EB:104:ILE:HB	2:EB:169:ARG:HG3	1.79	0.63
2:EB:588:ILE:O	2:EB:591:LYS:HG2	1.99	0.63
8:EH:13:SER:N	8:EH:27:GLU:O	2.28	0.63
14:EN:148:ILE:HD12	14:EN:148:ILE:H	1.63	0.63
2:FB:17:ARG:HD2	2:FB:758:ASP:HB3	1.80	0.63
13:FM:81:PHE:HD1	13:FM:88:ILE:HB	1.63	0.63
1:AA:985:ARG:HD2	1:AA:987:TYR:HB3	1.81	0.62
1:BA:756:LYS:HG2	9:BI:85:LYS:NZ	2.14	0.62
2:BB:335:ARG:NH1	13:BM:113:ILE:HG23	2.14	0.62
9:BI:6:SER:H	9:BI:45:LEU:HD22	1.64	0.62
1:CA:669:LEU:HD13	1:CA:673:HIS:HB3	1.80	0.62
1:CA:1215:VAL:HG22	1:CA:1216:THR:H	1.63	0.62
1:CA:1247:SER:OG	1:CA:1249:GLU:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1545:ASP:OD1	1:CA:1546:VAL:N	2.30	0.62
8:CH:38:LEU:HD11	8:CH:123:MET:HG3	1.80	0.62
11:CK:125:MET:HA	11:CK:128:CYS:SG	2.39	0.62
1:DA:1216:THR:OG1	1:DA:1234:LYS:HB2	1.99	0.62
9:DI:72:LYS:HB2	9:DI:73:LYS:HE3	1.81	0.62
1:FA:753:ASN:ND2	1:FA:767:ASN:O	2.32	0.62
2:FB:210:ARG:NH2	2:FB:625:GLU:OE2	2.32	0.62
4:FD:22:ILE:O	7:FG:76:LYS:NZ	2.31	0.62
1:AA:850:SER:O	1:AA:852:ASP:N	2.32	0.62
1:AA:1247:SER:OG	1:AA:1249:GLU:N	2.30	0.62
2:AB:22:GLU:OE2	10:AJ:55:ASP:N	2.29	0.62
12:AL:53:HIS:O	12:AL:55:ILE:N	2.28	0.62
1:BA:1273:THR:HA	9:BI:48:VAL:HG22	1.80	0.62
1:BA:1289:SER:HA	1:BA:1475:GLU:OE1	1.98	0.62
2:BB:38:LEU:O	2:BB:41:ALA:N	2.24	0.62
2:BB:1046:VAL:HG22	2:BB:1047:ARG:H	1.64	0.62
6:BF:101:ILE:HG21	6:BF:120:ILE:HG21	1.80	0.62
1:CA:558:ALA:O	1:CA:561:LEU:HG	1.99	0.62
3:CC:45:SER:OG	3:CC:271:ARG:NH2	2.27	0.62
3:EC:255:VAL:HG12	3:EC:256:ILE:HG12	1.81	0.62
12:EL:45:ALA:O	12:EL:47:ARG:N	2.32	0.62
1:FA:480:ALA:HB2	2:FB:1046:VAL:HG23	1.81	0.62
2:FB:38:LEU:O	2:FB:41:ALA:N	2.24	0.62
1:AA:782:ASP:OD1	1:AA:783:LYS:N	2.31	0.62
1:AA:1637:PRO:HG3	1:AA:1647:ASN:HD21	1.64	0.62
3:AC:100:ARG:HH12	3:AC:193:LEU:HA	1.64	0.62
3:AC:101:ILE:HA	3:AC:104:VAL:HG23	1.80	0.62
3:AC:225:ALA:HB1	3:AC:302:VAL:HG22	1.81	0.62
8:AH:38:LEU:HD11	8:AH:123:MET:HG3	1.81	0.62
3:BC:201:GLU:O	3:BC:202:ILE:HD12	2.00	0.62
1:CA:745:PRO:HG2	1:CA:1075:ALA:HB2	1.81	0.62
1:CA:818:THR:HG23	2:CB:780:GLY:HA3	1.81	0.62
1:CA:874:GLU:O	1:CA:878:ARG:HB2	1.99	0.62
2:CB:228:SER:HB2	2:CB:253:LEU:HD13	1.81	0.62
2:CB:520:LEU:CD2	2:CB:530:PRO:HA	2.29	0.62
1:DA:82:PRO:HG2	1:DA:396:ILE:HD12	1.80	0.62
1:DA:387:SER:HA	1:DA:390:LEU:HD12	1.79	0.62
1:DA:1526:PHE:O	1:DA:1529:MET:N	2.32	0.62
2:DB:104:ILE:HB	2:DB:169:ARG:HG3	1.82	0.62
8:DH:63:LEU:HB3	8:DH:89:LEU:HB3	1.80	0.62
1:EA:113:VAL:HG13	1:EA:182:LYS:HG3	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:545:SER:O	1:EA:545:SER:OG	2.18	0.62
2:EB:562:PRO:HG3	2:EB:588:ILE:HD13	1.81	0.62
2:EB:776:ILE:HB	2:EB:1026:ILE:HD13	1.80	0.62
4:ED:82:LEU:HD22	7:EG:67:ASN:HD22	1.63	0.62
11:EK:112:THR:N	11:EK:115:ASP:OD2	2.32	0.62
1:FA:882:ILE:HD13	1:FA:888:LYS:HB3	1.79	0.62
2:FB:467:THR:HB	2:FB:469:ASN:HD22	1.64	0.62
5:FE:192:ARG:NH2	5:FE:215:MET:O	2.33	0.62
1:AA:1298:ASP:N	1:AA:1298:ASP:OD1	2.30	0.62
3:AC:229:LEU:O	3:AC:293:ARG:NH1	2.33	0.62
1:BA:1321:PHE:HD1	1:BA:1496:SER:HG	1.47	0.62
6:BF:101:ILE:HD13	6:BF:120:ILE:HG22	1.81	0.62
7:BG:40:ARG:NH1	7:BG:123:TYR:OH	2.31	0.62
1:CA:387:SER:HA	1:CA:390:LEU:HD12	1.80	0.62
2:CB:829:ASN:HB2	1:DA:538:ASN:HD21	1.64	0.62
1:DA:809:VAL:HG13	1:DA:813:LEU:HD11	1.80	0.62
1:DA:1294:MET:HG2	1:DA:1296:PHE:CE1	2.35	0.62
1:DA:1601:GLN:O	1:DA:1603:MET:N	2.31	0.62
2:DB:843:ASP:OD1	2:DB:845:LEU:HG	1.99	0.62
2:DB:1110:ILE:H	2:DB:1111:LEU:HD23	1.63	0.62
1:EA:975:ASP:OD1	1:EA:976:ALA:N	2.32	0.62
1:EA:1022:CYS:SG	1:EA:1615:TYR:OH	2.56	0.62
8:EH:107:VAL:HG23	8:EH:112:ILE:HA	1.80	0.62
1:FA:1344:ILE:HD13	2:FB:329:TYR:HE2	1.64	0.62
3:FC:229:LEU:O	3:FC:293:ARG:NH1	2.33	0.62
4:FD:33:THR:O	4:FD:36:VAL:HB	1.99	0.62
1:AA:641:GLU:HB2	6:AF:99:LEU:HD22	1.82	0.62
3:AC:109:ASP:HB3	3:AC:112:MET:HE2	1.82	0.62
4:BD:24:ALA:HA	7:BG:43:ILE:HA	1.79	0.62
8:BH:60:ALA:O	8:BH:140:ALA:HB1	2.00	0.62
8:BH:118:PHE:HB2	8:BH:121:LEU:HB2	1.81	0.62
13:BM:77:VAL:O	14:BN:56:ILE:HD12	1.99	0.62
14:BN:58:PHE:HA	14:BN:139:VAL:HG23	1.80	0.62
1:DA:1273:THR:HA	9:DI:48:VAL:HG22	1.82	0.62
2:DB:751:ILE:HG23	2:DB:752:VAL:HG22	1.80	0.62
4:DD:22:ILE:HD12	7:DG:45:LEU:HA	1.81	0.62
1:EA:928:MET:HG2	2:EB:955:PRO:HG3	1.81	0.62
2:EB:105:ALA:O	2:EB:135:GLY:HA3	1.99	0.62
11:EK:58:GLY:C	11:EK:60:SER:H	2.02	0.62
1:FA:1118:VAL:HG11	5:FE:154:ILE:HG13	1.80	0.62
2:FB:501:ARG:HG3	2:FB:699:ILE:HD12	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:40:ARG:NH1	7:FG:123:TYR:OH	2.33	0.62
7:FO:272:ILE:HG13	7:FO:274:SER:H	1.62	0.62
1:AA:74:GLY:HA3	1:AA:364:PRO:HB3	1.82	0.62
9:BI:41:GLN:HB3	9:BI:42:PHE:CE2	2.35	0.62
12:BL:40:LEU:HD22	12:BL:44:ASP:HB3	1.81	0.62
1:CA:1324:LEU:HD22	1:CA:1492:ILE:HG13	1.82	0.62
1:DA:67:LEU:HD13	1:DA:71:PHE:HB3	1.80	0.62
1:DA:825:ALA:HB1	2:DB:776:ILE:HD11	1.82	0.62
1:DA:1246:VAL:HG13	1:DA:1250:GLN:HB3	1.80	0.62
2:DB:850:THR:N	2:DB:882:ILE:HG13	2.12	0.62
2:DB:934:ILE:HG21	3:DC:73:SER:HB3	1.81	0.62
2:DB:967:LEU:H	2:DB:967:LEU:HD12	1.62	0.62
6:DF:101:ILE:HD13	6:DF:120:ILE:HG22	1.81	0.62
1:EA:1202:LEU:HD11	9:EI:101:LEU:HD11	1.80	0.62
1:EA:1246:VAL:HG22	1:EA:1250:GLN:NE2	2.14	0.62
2:EB:431:ASP:HB3	2:EB:438:ILE:HD11	1.82	0.62
2:EB:893:ASN:O	2:EB:893:ASN:ND2	2.33	0.62
1:FA:618:TYR:HB3	1:FA:670:ILE:HD11	1.80	0.62
2:FB:22:GLU:OE2	10:FJ:55:ASP:N	2.32	0.62
3:FC:328:LEU:HD11	11:FK:65:ILE:HD11	1.82	0.62
1:AA:729:LYS:HD2	8:AH:120:GLY:HA3	1.81	0.62
1:AA:1217:LEU:HD11	1:AA:1572:ARG:HD2	1.81	0.62
1:BA:425:ASN:OD1	7:BO:274:SER:N	2.32	0.62
1:BA:669:LEU:HD22	1:BA:673:HIS:ND1	2.15	0.62
1:BA:843:ARG:NH1	2:BB:988:GLU:OE2	2.28	0.62
2:BB:848:ILE:HD11	12:BL:58:LYS:HD3	1.81	0.62
14:BN:55:LEU:HB3	14:BN:136:VAL:HG22	1.82	0.62
2:CB:584:CYS:HB2	2:CB:598:HIS:ND1	2.14	0.62
3:CC:229:LEU:O	3:CC:293:ARG:NH1	2.33	0.62
8:CH:60:ALA:O	8:CH:140:ALA:HB1	2.00	0.62
1:DA:211:THR:O	1:DA:214:ASP:N	2.32	0.62
1:DA:1585:ILE:O	1:DA:1589:MET:HG3	2.00	0.62
2:DB:127:ARG:NH1	2:DB:185:GLU:OE2	2.30	0.62
3:DC:45:SER:OG	3:DC:271:ARG:NH2	2.28	0.62
11:DK:46:LYS:HE3	11:DK:66:VAL:O	2.00	0.62
1:EA:99:ARG:O	1:EA:109:ARG:NH2	2.33	0.62
1:EA:388:LYS:HG2	7:EO:281:ASP:OD1	2.00	0.62
2:EB:228:SER:HB2	2:EB:253:LEU:HD13	1.82	0.62
1:FA:1202:LEU:HD11	9:FI:101:LEU:HD11	1.80	0.62
1:FA:1447:GLN:HG3	1:FA:1460:TYR:HB3	1.80	0.62
2:FB:429:ARG:O	2:FB:433:ASN:ND2	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:738:ASP:OD1	2:FB:738:ASP:N	2.32	0.62
1:BA:1136:VAL:HG11	1:BA:1140:PHE:HD2	1.64	0.62
1:BA:1342:PRO:HD2	2:BB:272:PRO:HG3	1.82	0.62
1:BA:1657:LEU:HD11	6:BF:135:ARG:HB2	1.80	0.62
14:CN:179:ASP:HB2	14:CN:180:PHE:CD1	2.34	0.62
1:DA:620:ASN:OD1	1:DA:667:ARG:NH2	2.32	0.62
1:DA:722:PRO:HD2	8:DH:46:LEU:HD13	1.82	0.62
2:DB:1178:ILE:HD12	2:DB:1179:PRO:O	2.00	0.62
8:DH:76:THR:HG22	8:DH:77:ARG:H	1.65	0.62
11:DK:58:GLY:C	11:DK:60:SER:H	2.03	0.62
1:EA:1060:GLU:O	1:EA:1063:MET:N	2.32	0.62
1:EA:1247:SER:OG	1:EA:1249:GLU:N	2.30	0.62
2:FB:35:PHE:HB3	2:FB:38:LEU:HD23	1.82	0.62
1:AA:836:THR:OG1	1:AA:837:ALA:N	2.31	0.62
5:AE:86:PRO:HA	5:AE:113:GLN:HB2	1.82	0.62
7:AG:111:THR:HG1	7:AG:113:PHE:HD1	1.47	0.62
14:AN:71:PRO:HB2	14:AN:89:ILE:HD12	1.82	0.62
7:AO:275:ASN:O	7:BG:159:LYS:NZ	2.32	0.62
1:BA:1236:PRO:HB2	1:BA:1524:VAL:HG23	1.81	0.62
4:BD:19:PRO:HB3	7:BG:46:TYR:O	2.00	0.62
2:CB:22:GLU:OE2	10:CJ:55:ASP:N	2.30	0.62
2:DB:738:ASP:N	2:DB:738:ASP:OD1	2.31	0.62
1:EA:1470:CYS:SG	1:EA:1471:GLU:N	2.73	0.62
1:EA:1647:ASN:HD22	1:EA:1648:ASN:H	1.48	0.62
3:EC:85:PHE:O	12:EL:64:LEU:HA	1.99	0.62
5:EE:156:LEU:HD21	5:EE:197:LYS:HB2	1.82	0.62
1:FA:1344:ILE:HG22	2:FB:334:PHE:HE2	1.63	0.62
1:FA:1526:PHE:O	1:FA:1529:MET:N	2.32	0.62
2:FB:772:VAL:HG12	2:FB:946:ASP:H	1.64	0.62
1:AA:1235:THR:O	1:AA:1544:ASN:ND2	2.33	0.62
2:AB:903:ILE:HD13	2:AB:905:TYR:CE1	2.35	0.62
1:BA:450:LYS:NZ	1:BA:450:LYS:HB3	2.13	0.62
2:BB:586:VAL:HG22	2:BB:640:LEU:HD23	1.82	0.62
2:BB:1186:ASP:OD2	2:BB:1198:TYR:OH	2.15	0.62
3:BC:328:LEU:HB3	11:BK:121:LEU:HD11	1.82	0.62
5:BE:55:ARG:NH2	5:BE:113:GLN:OE1	2.33	0.62
8:BH:63:LEU:HB2	8:BH:88:SER:HB2	1.81	0.62
11:BK:58:GLY:C	11:BK:60:SER:H	2.02	0.62
1:CA:113:VAL:HG22	1:CA:182:LYS:NZ	2.15	0.62
5:CE:28:TYR:CE1	5:CE:78:LEU:HB3	2.35	0.62
6:CF:101:ILE:HG21	6:CF:120:ILE:HG21	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:85:HIS:HB3	14:CN:87:TYR:CE1	2.35	0.62
1:DA:1647:ASN:HD22	1:DA:1648:ASN:H	1.48	0.62
10:DJ:7:CYS:SG	10:DJ:8:PHE:N	2.73	0.62
2:EB:832:TRP:CZ3	2:EB:834:LYS:HA	2.35	0.62
2:EB:1046:VAL:HG22	2:EB:1047:ARG:H	1.64	0.62
7:EG:229:LEU:HD12	7:EG:230:ARG:H	1.64	0.62
11:EK:98:GLU:O	11:EK:100:LEU:N	2.33	0.62
1:FA:74:GLY:HA3	1:FA:364:PRO:HB3	1.81	0.62
1:FA:1294:MET:HG2	1:FA:1296:PHE:CE1	2.35	0.62
2:FB:338:PHE:CZ	2:FB:353:VAL:HG13	2.35	0.62
10:FJ:43:ARG:O	10:FJ:47:ARG:HG3	2.00	0.62
1:AA:719:ILE:HG12	8:AH:97:MET:HG2	1.81	0.61
1:AA:875:LEU:O	1:AA:879:LEU:HG	2.00	0.61
2:AB:834:LYS:O	2:AB:836:TRP:N	2.32	0.61
8:AH:63:LEU:HB2	8:AH:88:SER:HB2	1.81	0.61
1:BA:892:LEU:O	1:BA:896:THR:OG1	2.18	0.61
2:CB:213:HIS:HB2	2:CB:643:PHE:HZ	1.64	0.61
5:CE:137:GLU:O	5:CE:139:ALA:N	2.33	0.61
1:DA:1003:ARG:NH2	2:DB:520:LEU:HD22	2.14	0.61
1:DA:1272:VAL:O	1:DA:1273:THR:OG1	2.18	0.61
1:DA:1288:ARG:HB2	1:DA:1478:ALA:HA	1.82	0.61
2:DB:1047:ARG:NH2	2:DB:1051:PRO:O	2.33	0.61
9:DI:94:MET:HG2	9:DI:114:CYS:HA	1.82	0.61
10:DJ:45:CYS:O	10:DJ:48:ARG:HB3	2.00	0.61
1:EA:74:GLY:HA3	1:EA:364:PRO:HB3	1.81	0.61
2:EB:35:PHE:HB3	2:EB:38:LEU:HD23	1.81	0.61
7:EO:283:GLU:O	7:EO:286:ILE:HB	2.00	0.61
1:FA:1003:ARG:NH2	2:FB:520:LEU:HD22	2.15	0.61
1:FA:1216:THR:OG1	1:FA:1234:LYS:HB2	2.00	0.61
1:FA:1217:LEU:HD11	1:FA:1572:ARG:HD2	1.82	0.61
1:FA:1601:GLN:C	1:FA:1603:MET:H	2.03	0.61
5:FE:19:VAL:O	5:FE:23:VAL:HG23	2.00	0.61
9:FI:88:GLN:OE1	9:FI:119:TYR:HB2	1.99	0.61
13:FM:21:VAL:HB	14:FN:109:LEU:HD11	1.82	0.61
1:AA:596:HIS:H	1:AA:596:HIS:CD2	2.17	0.61
1:AA:693:GLN:OE1	11:AK:88:PHE:HA	2.00	0.61
3:AC:90:SER:OG	3:AC:91:VAL:N	2.33	0.61
1:BA:113:VAL:HG22	1:BA:182:LYS:NZ	2.15	0.61
2:BB:832:TRP:CZ3	2:BB:834:LYS:HA	2.35	0.61
2:BB:1002:LYS:HZ2	14:BN:166:LEU:HD13	1.65	0.61
1:CA:468:ARG:HD2	1:CA:1021:ARG:NH1	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:939:SER:OG	2:CB:943:ILE:N	2.31	0.61
3:CC:329:LYS:HD2	11:CK:122:LYS:HE2	1.82	0.61
12:CL:45:ALA:O	12:CL:47:ARG:N	2.33	0.61
1:DA:1241:PRO:HG3	1:DA:1540:GLY:HA3	1.81	0.61
2:DB:549:CYS:H	2:DB:550:ARG:NH1	1.97	0.61
2:DB:754:ALA:O	2:DB:756:LEU:N	2.33	0.61
2:DB:904:LYS:C	2:DB:905:TYR:HD1	2.02	0.61
10:DJ:2:ILE:HG12	10:DJ:3:VAL:H	1.65	0.61
1:EA:945:CYS:HB3	1:EA:946:LEU:HD23	1.81	0.61
2:EB:714:ARG:HG3	2:EB:922:GLY:HA3	1.82	0.61
2:EB:849:GLY:H	2:EB:882:ILE:HB	1.64	0.61
2:FB:699:ILE:H	2:FB:699:ILE:HD13	1.63	0.61
5:FE:87:SER:HA	5:FE:115:ASN:HB3	1.82	0.61
9:FI:73:LYS:HA	9:FI:76:LEU:HD12	1.82	0.61
1:AA:1175:MET:O	1:AA:1178:LEU:HG	2.00	0.61
3:BC:225:ALA:HB1	3:BC:302:VAL:HG22	1.81	0.61
4:BD:19:PRO:HG3	7:BG:47:VAL:HG12	1.81	0.61
7:BG:149:ILE:HD11	7:BG:155:ALA:HB2	1.81	0.61
1:CA:865:ASP:OD2	1:CA:867:ASP:N	2.30	0.61
1:CA:1117:SER:O	1:CA:1117:SER:OG	2.16	0.61
8:CH:118:PHE:HB2	8:CH:121:LEU:HB2	1.82	0.61
9:CI:73:LYS:HA	9:CI:76:LEU:HD12	1.80	0.61
2:DB:675:ALA:O	2:DB:690:GLU:HG2	2.00	0.61
8:DH:38:LEU:HD12	8:DH:124:ARG:O	2.00	0.61
1:EA:125:LEU:HD11	1:EA:219:LEU:HD12	1.82	0.61
1:EA:1217:LEU:HD11	1:EA:1572:ARG:HD2	1.82	0.61
2:EB:752:VAL:HG21	2:EB:965:GLU:HG2	1.83	0.61
2:EB:967:LEU:HD12	2:EB:967:LEU:H	1.64	0.61
2:FB:547:HIS:HB2	2:FB:760:TYR:OH	2.00	0.61
3:FC:328:LEU:HB3	11:FK:121:LEU:HD11	1.81	0.61
7:FO:286:ILE:O	7:FO:289:LYS:N	2.31	0.61
1:AA:721:LYS:HG2	1:AA:722:PRO:HA	1.83	0.61
13:AM:12:ILE:CG2	14:AN:68:LYS:HA	2.31	0.61
1:BA:425:ASN:ND2	7:BO:274:SER:HB2	2.12	0.61
4:BD:89:LEU:HA	4:BD:92:ILE:HD12	1.81	0.61
13:BM:81:PHE:HD1	13:BM:88:ILE:HB	1.64	0.61
1:DA:1263:LEU:HB2	1:DA:1496:SER:HB2	1.81	0.61
1:DA:1647:ASN:HB3	1:DA:1649:VAL:HG23	1.81	0.61
2:DB:170:CYS:SG	2:DB:171:HIS:N	2.74	0.61
2:DB:1002:LYS:HZ3	14:DN:166:LEU:HD13	1.64	0.61
14:DN:55:LEU:O	14:DN:136:VAL:HG13	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1326:GLU:OE1	1:EA:1454:HIS:HB3	2.00	0.61
1:FA:1456:PHE:CB	1:FA:1474:LEU:HD11	2.30	0.61
10:FJ:45:CYS:O	10:FJ:48:ARG:HB3	2.00	0.61
1:AA:918:LYS:O	1:AA:923:ASN:ND2	2.32	0.61
2:AB:300:SER:HB3	9:AI:49:THR:HG23	1.82	0.61
7:AG:139:ILE:HD12	7:AG:140:GLN:H	1.65	0.61
14:AN:179:ASP:HB2	14:AN:180:PHE:CD1	2.36	0.61
1:BA:385:LEU:HD13	1:BA:437:PHE:HA	1.80	0.61
1:BA:865:ASP:OD2	1:BA:867:ASP:N	2.31	0.61
5:BE:40:GLU:HA	5:BE:43:LYS:HE3	1.81	0.61
1:CA:804:GLU:OE1	1:CA:804:GLU:N	2.32	0.61
1:CA:1502:PRO:O	1:CA:1503:HIS:HB2	1.99	0.61
1:CA:1585:ILE:O	1:CA:1589:MET:HG3	2.01	0.61
2:CB:104:ILE:HB	2:CB:169:ARG:HG3	1.82	0.61
1:DA:985:ARG:HG2	1:DA:988:SER:H	1.65	0.61
2:DB:152:LEU:HD13	2:DB:443:LYS:HG3	1.82	0.61
5:DE:152:LYS:HE3	5:DE:154:ILE:HD11	1.83	0.61
1:EA:76:GLN:HE22	2:EB:1111:LEU:HD12	1.65	0.61
1:EA:482:SER:HB2	2:EB:1044:PHE:HB3	1.80	0.61
1:EA:1003:ARG:NH2	2:EB:520:LEU:HD22	2.14	0.61
2:EB:428:VAL:O	2:EB:432:ILE:HD12	2.01	0.61
1:FA:1637:PRO:HG3	1:FA:1647:ASN:HD21	1.64	0.61
2:FB:380:LYS:HG3	2:FB:637:TYR:CD2	2.35	0.61
2:FB:863:ASP:HB3	2:FB:866:LEU:HB2	1.81	0.61
3:FC:45:SER:OG	3:FC:271:ARG:NH2	2.26	0.61
1:AA:1647:ASN:HB3	1:AA:1649:VAL:HG23	1.81	0.61
2:AB:295:ASN:HB3	14:AN:104:LEU:HD13	1.81	0.61
1:CA:1027:LEU:HD21	1:CA:1588:MET:HG2	1.83	0.61
2:CB:714:ARG:HG3	2:CB:922:GLY:HA3	1.82	0.61
2:CB:1037:ARG:O	2:CB:1039:MET:N	2.32	0.61
10:CJ:2:ILE:HG12	10:CJ:3:VAL:H	1.66	0.61
1:DA:804:GLU:N	1:DA:804:GLU:OE1	2.34	0.61
2:DB:170:CYS:SG	2:DB:172:LEU:N	2.73	0.61
2:DB:811:LEU:HD13	2:DB:823:GLN:NE2	2.13	0.61
1:EA:956:ARG:HG2	1:EA:979:GLY:O	2.01	0.61
8:EH:35:GLN:O	8:EH:127:GLY:HA2	2.00	0.61
1:FA:669:LEU:HD12	1:FA:786:TYR:CD1	2.35	0.61
1:FA:782:ASP:OD1	1:FA:783:LYS:N	2.32	0.61
1:FA:1272:VAL:C	9:FI:48:VAL:HG13	2.20	0.61
1:AA:752:LYS:HG3	1:AA:768:GLU:HA	1.83	0.61
4:AD:82:LEU:HD22	7:AG:67:ASN:HD22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:AE:147:HIS:HB3	5:AE:150:VAL:HG23	1.81	0.61
2:BB:683:ASN:HA	14:BN:150:TYR:CE1	2.35	0.61
1:CA:854:GLY:O	1:CA:974:THR:HB	2.01	0.61
1:DA:596:HIS:H	1:DA:596:HIS:CD2	2.18	0.61
2:DB:97:VAL:HG13	2:DB:141:LEU:HD11	1.83	0.61
9:DI:109:THR:OG1	9:DI:124:ASN:ND2	2.34	0.61
13:DM:81:PHE:HD1	13:DM:88:ILE:HB	1.64	0.61
14:DN:55:LEU:HB3	14:DN:136:VAL:HG22	1.82	0.61
1:EA:211:THR:O	1:EA:214:ASP:N	2.34	0.61
2:EB:127:ARG:NH1	2:EB:185:GLU:OE2	2.28	0.61
2:EB:301:PHE:HD1	2:EB:302:LEU:HD23	1.64	0.61
8:EH:60:ALA:O	8:EH:140:ALA:HB1	2.00	0.61
1:FA:209:THR:HG21	5:FE:174:GLN:HG3	1.82	0.61
1:FA:510:PRO:O	1:FA:515:ASN:ND2	2.33	0.61
1:FA:1272:VAL:HG12	1:FA:1273:THR:H	1.65	0.61
2:FB:693:PRO:O	2:FB:696:ILE:HG13	1.99	0.61
2:FB:757:TYR:CZ	2:FB:762:MET:HB3	2.36	0.61
11:FK:58:GLY:C	11:FK:60:SER:H	2.02	0.61
14:FN:58:PHE:HA	14:FN:139:VAL:HG23	1.82	0.61
2:AB:403:LEU:HD11	2:AB:408:LEU:HB2	1.82	0.61
8:AH:62:SER:OG	8:AH:63:LEU:N	2.32	0.61
2:BB:751:ILE:HG23	2:BB:752:VAL:HG22	1.83	0.61
1:CA:897:SER:HA	1:CA:900:VAL:HG22	1.82	0.61
1:CA:1264:SER:O	9:CI:56:PHE:HB3	2.00	0.61
1:DA:843:ARG:NH1	2:DB:988:GLU:OE2	2.27	0.61
1:DA:1344:ILE:HD13	2:DB:329:TYR:HE2	1.65	0.61
2:DB:782:ASP:HB3	2:DB:788:ILE:HG12	1.82	0.61
2:DB:1138:ALA:O	2:DB:1141:LEU:HG	2.01	0.61
2:DB:1186:ASP:O	2:DB:1190:SER:OG	2.17	0.61
13:DM:56:GLU:HB2	13:DM:61:GLU:HA	1.82	0.61
1:EA:19:LEU:HB3	1:EA:24:ILE:HD11	1.80	0.61
2:EB:213:HIS:HB2	2:EB:643:PHE:CZ	2.36	0.61
7:EG:149:ILE:HD11	7:EG:155:ALA:HB2	1.83	0.61
8:EH:106:GLU:HG2	8:EH:112:ILE:HD11	1.83	0.61
13:FM:15:VAL:HA	13:FM:90:LEU:HB2	1.83	0.61
1:AA:1658:ALA:HB2	7:AG:107:ILE:HD11	1.81	0.61
2:AB:66:LYS:C	2:AB:68:ILE:H	2.04	0.61
2:AB:586:VAL:HG22	2:AB:640:LEU:HD23	1.83	0.61
2:AB:783:MET:O	2:AB:785:ASP:N	2.34	0.61
2:AB:946:ASP:OD2	10:AJ:48:ARG:NH2	2.34	0.61
1:BA:211:THR:O	1:BA:214:ASP:N	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1326:GLU:OE1	1:BA:1454:HIS:HB3	2.01	0.61
1:BA:1585:ILE:O	1:BA:1589:MET:HG3	2.01	0.61
2:CB:547:HIS:HB2	2:CB:760:TYR:OH	2.01	0.61
2:CB:549:CYS:H	2:CB:550:ARG:NH1	1.98	0.61
2:CB:986:PHE:CD2	2:CB:992:PRO:HG3	2.35	0.61
4:CD:32:SER:N	4:CD:35:GLU:OE2	2.33	0.61
3:DC:128:ASP:OD1	3:DC:174:ARG:NH1	2.32	0.61
3:DC:225:ALA:HB1	3:DC:302:VAL:HG22	1.83	0.61
1:EA:669:LEU:HD13	1:EA:673:HIS:HB3	1.82	0.61
1:EA:1487:ASN:O	1:EA:1490:GLU:N	2.34	0.61
2:EB:72:VAL:HG22	2:EB:96:SER:HA	1.80	0.61
2:EB:380:LYS:HE3	2:EB:637:TYR:HB3	1.83	0.61
1:FA:897:SER:HA	1:FA:900:VAL:HG22	1.83	0.61
1:FA:1031:HIS:HB2	1:FA:1182:GLY:O	2.01	0.61
3:FC:277:ARG:HG3	3:FC:291:LEU:HD13	1.83	0.61
8:FH:95:TYR:HD2	8:FH:144:ILE:HD13	1.66	0.61
1:AA:1484:LEU:CG	2:AB:308:LEU:HD11	2.31	0.61
7:AO:284:VAL:HG12	7:AO:288:ASN:HD21	1.65	0.61
5:BE:5:ASN:ND2	5:BE:52:ARG:HH21	1.98	0.61
1:CA:141:LEU:HG	1:CA:142:GLY:H	1.65	0.61
2:CB:428:VAL:O	2:CB:432:ILE:HD12	2.01	0.61
1:DA:1502:PRO:O	1:DA:1503:HIS:HB2	1.99	0.61
2:EB:887:LEU:O	2:EB:888:ILE:HD12	2.00	0.61
2:EB:1195:ARG:HH21	2:EB:1197:ARG:HD2	1.65	0.61
9:EI:6:SER:H	9:EI:45:LEU:HD22	1.64	0.61
11:EK:49:LEU:HD11	11:EK:54:THR:HG21	1.83	0.61
1:FA:1463:ASP:C	1:FA:1465:GLU:H	2.05	0.61
2:FB:833:PRO:HG2	2:FB:836:TRP:CZ2	2.36	0.61
2:FB:852:VAL:HG13	2:FB:856:ASP:HB2	1.82	0.61
3:FC:316:LYS:O	3:FC:320:ILE:N	2.33	0.61
1:AA:395:LEU:HD12	7:AO:273:VAL:HG13	1.83	0.60
2:AB:714:ARG:HG3	2:AB:922:GLY:HA3	1.83	0.60
2:AB:986:PHE:CD1	14:AN:160:VAL:HG21	2.36	0.60
3:AC:253:PRO:HG2	14:AN:180:PHE:CD1	2.36	0.60
14:AN:105:SER:OG	14:AN:132:GLN:NE2	2.33	0.60
7:BG:82:LEU:HG	7:BG:124:VAL:HA	1.83	0.60
14:BN:122:ALA:O	14:BN:130:PRO:HA	2.02	0.60
1:CA:674:ILE:O	1:CA:678:VAL:HG23	2.01	0.60
1:CA:693:GLN:OE1	11:CK:88:PHE:HA	2.01	0.60
1:CA:843:ARG:NH1	2:CB:988:GLU:OE2	2.23	0.60
1:CA:1463:ASP:C	1:CA:1465:GLU:H	2.04	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:863:ASP:HB3	2:CB:866:LEU:HB2	1.83	0.60
1:DA:1216:THR:HG23	1:DA:1234:LYS:HD2	1.83	0.60
1:DA:1292:ILE:O	1:DA:1292:ILE:HD12	2.01	0.60
7:DG:61:VAL:HG11	7:DG:87:LEU:HD21	1.83	0.60
1:EA:558:ALA:O	1:EA:561:LEU:HG	2.01	0.60
1:EA:818:THR:CG2	2:EB:780:GLY:HA3	2.30	0.60
8:EH:38:LEU:HD11	8:EH:123:MET:HG3	1.81	0.60
1:FA:596:HIS:H	1:FA:596:HIS:HD2	1.49	0.60
1:FA:1474:LEU:HD13	1:FA:1475:GLU:N	2.14	0.60
1:FA:1508:VAL:O	1:FA:1510:PRO:HD3	2.01	0.60
1:AA:123:ARG:HD3	1:AA:337:TYR:CE1	2.36	0.60
1:AA:1579:PHE:HA	1:AA:1582:LEU:HG	1.83	0.60
2:AB:772:VAL:HG12	2:AB:946:ASP:H	1.65	0.60
2:AB:843:ASP:OD1	2:AB:845:LEU:HG	2.00	0.60
2:AB:1186:ASP:O	2:AB:1190:SER:OG	2.19	0.60
6:AF:99:LEU:HB3	7:AG:112:PRO:HD3	1.82	0.60
1:BA:123:ARG:HD3	1:BA:337:TYR:CE1	2.35	0.60
1:BA:603:HIS:NE2	1:BA:624:TYR:OH	2.34	0.60
2:BB:75:ASP:OD1	2:BB:76:GLY:N	2.33	0.60
2:BB:533:THR:OG1	2:BB:542:LEU:O	2.18	0.60
8:BH:30:SER:HB3	8:BH:36:CYS:HB3	1.81	0.60
13:CM:15:VAL:HA	13:CM:90:LEU:HB2	1.81	0.60
1:DA:461:GLU:HA	1:DA:465:GLY:HA2	1.83	0.60
8:DH:106:GLU:HA	8:DH:112:ILE:HG12	1.84	0.60
1:EA:113:VAL:HG22	1:EA:182:LYS:NZ	2.16	0.60
1:EA:1661:PRO:HA	7:EG:102:GLU:HA	1.83	0.60
2:EB:474:SER:O	2:EB:476:LEU:N	2.34	0.60
8:EH:95:TYR:HD2	8:EH:144:ILE:HD13	1.66	0.60
1:FA:1590:THR:OG1	5:FE:212:ARG:NH2	2.34	0.60
1:FA:1620:GLN:O	1:FA:1623:THR:N	2.34	0.60
3:FC:255:VAL:HG12	3:FC:256:ILE:HG12	1.82	0.60
1:AA:1220:PRO:O	1:AA:1223:ARG:N	2.34	0.60
1:AA:1601:GLN:C	1:AA:1603:MET:H	2.05	0.60
2:AB:675:ALA:O	2:AB:690:GLU:HG2	2.00	0.60
3:AC:84:TYR:HB3	12:AL:64:LEU:HD11	1.82	0.60
12:AL:32:ALA:HB2	12:AL:57:LEU:HG	1.83	0.60
1:BA:1656:VAL:HG23	7:BG:107:ILE:HB	1.83	0.60
2:BB:1049:THR:HG21	7:BO:304:ASN:HB3	1.83	0.60
8:BH:57:VAL:HG13	8:BH:144:ILE:HG13	1.84	0.60
1:CA:1344:ILE:HG22	2:CB:334:PHE:HE2	1.65	0.60
1:CA:1661:PRO:HA	7:CG:102:GLU:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:841:ASP:HB3	2:CB:843:ASP:OD1	2.02	0.60
8:CH:106:GLU:HG2	8:CH:112:ILE:HD11	1.83	0.60
10:CJ:36:LEU:HD11	10:CJ:51:LEU:HB2	1.83	0.60
13:CM:12:ILE:CG2	14:CN:68:LYS:HA	2.30	0.60
1:DA:211:THR:HB	5:DE:173:SER:HB2	1.83	0.60
1:DA:1058:THR:C	1:DA:1060:GLU:H	2.05	0.60
1:DA:1263:LEU:HG	1:DA:1267:ILE:HD11	1.83	0.60
8:DH:107:VAL:HG23	8:DH:112:ILE:HA	1.83	0.60
1:EA:549:MET:SD	1:EA:553:GLN:NE2	2.74	0.60
1:EA:1502:PRO:O	1:EA:1503:HIS:HB2	2.01	0.60
3:EC:88:ASN:OD1	3:EC:202:ILE:HD11	2.01	0.60
1:FA:1019:LEU:HD23	1:FA:1020:GLN:N	2.16	0.60
1:FA:1235:THR:O	1:FA:1544:ASN:ND2	2.35	0.60
1:FA:1546:VAL:O	1:FA:1549:VAL:N	2.34	0.60
5:FE:137:GLU:C	5:FE:139:ALA:H	2.03	0.60
11:FK:60:SER:OG	11:FK:104:ARG:NH2	2.33	0.60
3:AC:228:ARG:NH1	14:AN:173:THR:H	1.99	0.60
7:AG:37:CYS:HB3	7:AG:125:TRP:CD1	2.36	0.60
1:BA:1060:GLU:O	1:BA:1063:MET:N	2.34	0.60
1:BA:1474:LEU:HD13	1:BA:1475:GLU:N	2.16	0.60
2:BB:852:VAL:HG13	2:BB:856:ASP:HB2	1.84	0.60
5:BE:192:ARG:NH2	5:BE:215:MET:O	2.34	0.60
1:CA:363:PRO:HB3	2:CB:1187:SER:OG	2.01	0.60
1:CA:1019:LEU:HD23	1:CA:1020:GLN:N	2.17	0.60
2:CB:623:ASP:HA	2:CB:663:ILE:HG21	1.82	0.60
2:CB:738:ASP:OD1	2:CB:738:ASP:N	2.33	0.60
1:DA:1474:LEU:HD13	1:DA:1475:GLU:N	2.15	0.60
2:DB:327:LEU:HD13	2:DB:351:GLN:HG2	1.82	0.60
2:EB:52:LEU:HD22	2:EB:61:LEU:HD21	1.82	0.60
2:EB:383:SER:OG	2:EB:384:LEU:N	2.34	0.60
2:EB:655:TYR:HA	2:EB:688:HIS:CD2	2.34	0.60
13:EM:58:GLU:HG2	13:EM:59:ARG:N	2.14	0.60
1:FA:1202:LEU:HD11	9:FI:101:LEU:HD21	1.84	0.60
2:FB:886:ASN:N	2:FB:902:SER:O	2.28	0.60
1:AA:456:VAL:HG11	2:AB:1192:MET:SD	2.42	0.60
1:AA:473:GLY:HA2	2:AB:1071:VAL:O	2.01	0.60
1:AA:1216:THR:OG1	1:AA:1234:LYS:HB2	2.01	0.60
2:AB:501:ARG:HG3	2:AB:699:ILE:HD12	1.84	0.60
13:AM:56:GLU:HB2	13:AM:61:GLU:HA	1.83	0.60
1:BA:615:ARG:NH2	2:BB:928:SER:OG	2.34	0.60
1:BA:1220:PRO:O	1:BA:1223:ARG:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1202:LEU:HD22	9:CI:99:LEU:HD22	1.82	0.60
2:DB:18:THR:HA	2:DB:21:ARG:NH2	2.17	0.60
1:EA:456:VAL:HG11	2:EB:1192:MET:SD	2.41	0.60
2:EB:346:ASP:OD1	13:EM:113:ILE:HG23	2.01	0.60
2:EB:625:GLU:HB2	2:EB:643:PHE:O	2.01	0.60
7:EG:37:CYS:HB3	7:EG:125:TRP:CD1	2.36	0.60
10:EJ:2:ILE:HG12	10:EJ:3:VAL:H	1.67	0.60
1:FA:491:GLU:OE1	1:FA:815:ARG:NH2	2.19	0.60
1:FA:537:GLN:HE21	1:FA:541:GLY:HA2	1.66	0.60
1:FA:1288:ARG:HB2	1:FA:1478:ALA:HA	1.83	0.60
1:FA:1344:ILE:HD13	2:FB:329:TYR:CE2	2.37	0.60
4:FD:22:ILE:CD1	7:FG:45:LEU:HA	2.31	0.60
7:FG:45:LEU:CD1	7:FG:118:CYS:HB2	2.32	0.60
1:AA:1487:ASN:O	1:AA:1490:GLU:N	2.35	0.60
1:AA:1545:ASP:OD1	1:AA:1546:VAL:N	2.31	0.60
2:AB:904:LYS:C	2:AB:905:TYR:HD1	2.04	0.60
1:BA:1272:VAL:HG12	1:BA:1273:THR:H	1.66	0.60
8:BH:106:GLU:HA	8:BH:112:ILE:HG12	1.82	0.60
2:CB:75:ASP:OD1	2:CB:77:LYS:NZ	2.35	0.60
2:CB:262:PHE:CE2	2:CB:269:TYR:HB2	2.36	0.60
2:CB:392:ASP:HB3	2:CB:399:HIS:CE1	2.37	0.60
5:CE:192:ARG:NH2	5:CE:215:MET:O	2.34	0.60
14:CN:58:PHE:HA	14:CN:139:VAL:HG23	1.84	0.60
1:DA:945:CYS:HB3	1:DA:946:LEU:HD23	1.84	0.60
14:DN:122:ALA:O	14:DN:130:PRO:HA	2.01	0.60
1:EA:1245:ASP:OD2	1:EA:1245:ASP:N	2.31	0.60
1:EA:1658:ALA:HB2	7:EG:107:ILE:HD11	1.83	0.60
2:EB:504:HIS:HB3	2:EB:542:LEU:HD23	1.84	0.60
7:EO:285:SER:O	7:EO:289:LYS:HB2	2.02	0.60
7:FO:296:ASP:CG	7:FO:297:LEU:H	2.04	0.60
1:BA:1563:VAL:HA	1:BA:1566:ILE:HD11	1.82	0.60
4:BD:19:PRO:HG3	7:BG:47:VAL:CG1	2.32	0.60
12:BL:33:GLU:HG2	12:BL:55:ILE:HG12	1.84	0.60
2:CB:1150:LYS:N	2:CB:1150:LYS:HZ2	1.98	0.60
2:DB:41:ALA:HB1	2:DB:501:ARG:HH11	1.67	0.60
8:DH:63:LEU:HB2	8:DH:88:SER:HB2	1.83	0.60
1:EA:748:ASN:ND2	1:EA:1072:ASN:OD1	2.35	0.60
1:EA:1601:GLN:C	1:EA:1603:MET:H	2.04	0.60
2:EB:783:MET:O	2:EB:785:ASP:N	2.35	0.60
5:EE:133:GLU:HB3	5:EE:135:PHE:HE1	1.67	0.60
8:FH:60:ALA:O	8:FH:140:ALA:HB1	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FI:41:GLN:HB3	9:FI:42:PHE:CE2	2.37	0.60
1:AA:1248:ASP:O	1:AA:1251:ALA:HB3	2.02	0.60
1:AA:1502:PRO:O	1:AA:1503:HIS:HB2	2.01	0.60
5:AE:178:ILE:HG22	5:AE:212:ARG:HB3	1.84	0.60
1:BA:1016:SER:CB	1:BA:1019:LEU:HD22	2.32	0.60
2:BB:588:ILE:O	2:BB:591:LYS:HG2	2.02	0.60
8:BH:63:LEU:HB3	8:BH:89:LEU:HB3	1.82	0.60
12:BL:32:ALA:HB3	12:BL:55:ILE:HG13	1.84	0.60
1:CA:545:SER:O	1:CA:545:SER:OG	2.20	0.60
1:CA:1226:VAL:HG12	1:CA:1227:MET:HG2	1.84	0.60
2:CB:1046:VAL:HG22	2:CB:1047:ARG:H	1.67	0.60
3:CC:223:SER:HB2	3:CC:303:GLU:HB3	1.83	0.60
14:CN:70:LEU:HG	14:CN:70:LEU:O	2.01	0.60
1:DA:1463:ASP:C	1:DA:1465:GLU:H	2.03	0.60
2:DB:18:THR:HA	2:DB:21:ARG:HH21	1.65	0.60
4:DD:32:SER:N	4:DD:35:GLU:OE2	2.35	0.60
5:DE:28:TYR:CE1	5:DE:78:LEU:HB3	2.37	0.60
1:FA:1108:HIS:CG	1:FA:1117:SER:HB3	2.35	0.60
1:FA:1236:PRO:HB2	1:FA:1524:VAL:HG23	1.83	0.60
2:FB:98:SER:OG	2:FB:99:VAL:N	2.32	0.60
5:FE:47:CYS:SG	5:FE:53:PRO:HA	2.42	0.60
8:FH:38:LEU:HD12	8:FH:124:ARG:O	2.01	0.60
13:FM:56:GLU:HB2	13:FM:61:GLU:HA	1.83	0.60
1:AA:785:GLN:O	1:AA:794:VAL:HG22	2.02	0.60
1:AA:975:ASP:OD1	1:AA:976:ALA:N	2.34	0.60
7:AO:284:VAL:O	7:AO:288:ASN:ND2	2.35	0.60
1:BA:399:LEU:HD13	7:BO:271:PRO:HG2	1.83	0.60
1:BA:1108:HIS:CG	1:BA:1117:SER:HB3	2.36	0.60
2:BB:971:ALA:O	2:BB:974:LEU:N	2.35	0.60
2:BB:1047:ARG:NH2	2:BB:1051:PRO:O	2.35	0.60
1:CA:99:ARG:O	1:CA:109:ARG:NH2	2.35	0.60
1:CA:1216:THR:OG1	1:CA:1234:LYS:HB2	2.01	0.60
6:CF:70:LYS:HG3	7:CG:94:PRO:O	2.01	0.60
7:CG:37:CYS:HB3	7:CG:125:TRP:CD1	2.37	0.60
1:DA:680:LEU:HD21	1:DA:731:ILE:HD12	1.82	0.60
11:DK:112:THR:N	11:DK:115:ASP:OD2	2.30	0.60
1:EA:1237:GLN:H	1:EA:1544:ASN:HB3	1.66	0.60
1:FA:586:VAL:HG13	1:FA:638:PRO:HG2	1.83	0.60
1:FA:1136:VAL:HG22	1:FA:1174:TYR:CD1	2.37	0.60
2:FB:474:SER:C	2:FB:476:LEU:H	2.05	0.60
2:FB:562:PRO:HG3	2:FB:588:ILE:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:133:GLU:HB3	5:FE:135:PHE:HE1	1.67	0.60
2:AB:104:ILE:HA	2:AB:137:LEU:HD22	1.83	0.60
13:AM:15:VAL:HA	13:AM:90:LEU:HB2	1.83	0.60
2:BB:134:ARG:HA	2:BB:163:VAL:HG23	1.82	0.60
2:BB:807:GLU:O	2:BB:902:SER:OG	2.10	0.60
5:BE:48:ASP:O	5:BE:50:MET:N	2.34	0.60
5:BE:133:GLU:HB3	5:BE:135:PHE:HE1	1.66	0.60
1:CA:203:THR:OG1	1:CA:204:GLU:N	2.32	0.60
2:CB:852:VAL:HG13	2:CB:856:ASP:HB2	1.84	0.60
11:CK:49:LEU:HD11	11:CK:54:THR:HG21	1.83	0.60
1:DA:510:PRO:O	1:DA:515:ASN:ND2	2.33	0.60
1:DA:1019:LEU:HD23	1:DA:1020:GLN:N	2.16	0.60
1:EA:699:CYS:O	1:EA:815:ARG:NH1	2.35	0.60
1:EA:974:THR:O	1:EA:974:THR:OG1	2.14	0.60
1:EA:1009:THR:HG21	9:EI:101:LEU:HD23	1.84	0.60
1:EA:1019:LEU:HD23	1:EA:1020:GLN:N	2.15	0.60
1:EA:1217:LEU:HD13	1:EA:1573:TYR:HE1	1.67	0.60
1:EA:1447:GLN:HG3	1:EA:1460:TYR:HB3	1.82	0.60
1:FA:697:TYR:HE1	1:FA:702:PRO:CD	2.14	0.60
1:FA:850:SER:O	1:FA:853:THR:N	2.34	0.60
2:FB:549:CYS:H	2:FB:550:ARG:NH1	2.00	0.60
9:FI:10:CYS:HB3	9:FI:13:CYS:SG	2.41	0.60
2:AB:547:HIS:HB2	2:AB:760:TYR:OH	2.02	0.59
2:AB:1138:ALA:O	2:AB:1141:LEU:HG	2.02	0.59
3:AC:277:ARG:HG3	3:AC:291:LEU:HD13	1.82	0.59
11:AK:49:LEU:HD11	11:AK:54:THR:HG21	1.84	0.59
1:BA:574:ASN:OD1	1:BA:574:ASN:N	2.35	0.59
5:BE:147:HIS:HB3	5:BE:150:VAL:HG23	1.84	0.59
1:CA:1272:VAL:O	1:CA:1273:THR:OG1	2.17	0.59
3:CC:230:LEU:HD12	3:CC:231:PRO:HD2	1.83	0.59
13:CM:81:PHE:HD1	13:CM:88:ILE:HB	1.67	0.59
1:DA:1094:ALA:HB2	1:DA:1132:TYR:HB3	1.84	0.59
1:EA:753:ASN:ND2	1:EA:767:ASN:O	2.35	0.59
1:EA:1236:PRO:HB2	1:EA:1524:VAL:HG23	1.83	0.59
1:EA:1658:ALA:O	7:EG:104:LEU:HA	2.02	0.59
2:EB:940:GLU:HB2	2:EB:1012:PRO:HB2	1.83	0.59
13:EM:113:ILE:HG22	13:EM:113:ILE:O	2.01	0.59
1:FA:11:ILE:CG2	2:FB:1198:TYR:HB2	2.32	0.59
1:FA:97:TYR:O	1:FA:101:SER:OG	2.18	0.59
1:FA:1136:VAL:HG22	1:FA:1174:TYR:CE1	2.36	0.59
2:FB:1195:ARG:HH21	2:FB:1197:ARG:HD2	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FC:42:VAL:HG22	3:FC:56:LEU:HD22	1.84	0.59
1:AA:499:PRO:HG3	1:AA:609:PRO:HA	1.84	0.59
2:AB:470:LEU:HD22	2:AB:484:TYR:HE1	1.67	0.59
2:AB:1002:LYS:NZ	14:AN:166:LEU:HD13	2.17	0.59
2:AB:1037:ARG:O	2:AB:1039:MET:N	2.35	0.59
10:AJ:31:ASP:OD1	10:AJ:34:THR:HB	2.01	0.59
11:BK:49:LEU:HD12	11:BK:62:SER:O	2.01	0.59
14:BN:55:LEU:HD12	14:BN:56:ILE:H	1.67	0.59
1:CA:1094:ALA:HB2	1:CA:1132:TYR:HB3	1.84	0.59
2:CB:210:ARG:NH2	2:CB:625:GLU:OE2	2.35	0.59
13:CM:40:LEU:HD12	13:CM:41:TYR:H	1.66	0.59
14:CN:55:LEU:O	14:CN:136:VAL:HG13	2.02	0.59
2:EB:841:ASP:HB3	2:EB:843:ASP:OD1	2.03	0.59
1:FA:558:ALA:O	1:FA:561:LEU:HG	2.02	0.59
1:FA:896:THR:O	1:FA:900:VAL:HG13	2.02	0.59
12:FL:40:LEU:HD22	12:FL:44:ASP:HB3	1.84	0.59
14:AN:58:PHE:HA	14:AN:139:VAL:HG23	1.83	0.59
7:AO:272:ILE:HG22	7:AO:275:ASN:ND2	2.17	0.59
1:BA:510:PRO:O	1:BA:515:ASN:ND2	2.35	0.59
7:BG:89:ILE:HA	7:BG:118:CYS:SG	2.43	0.59
10:BJ:41:LEU:HD22	10:BJ:46:CYS:HB3	1.83	0.59
1:CA:1019:LEU:HD21	1:CA:1194:GLY:HA2	1.84	0.59
2:CB:532:HIS:CD2	2:CB:700:LEU:HD22	2.37	0.59
2:CB:934:ILE:HG21	3:CC:73:SER:HB3	1.83	0.59
2:CB:1026:ILE:HD11	2:CB:1028:VAL:HG13	1.84	0.59
14:CN:122:ALA:O	14:CN:130:PRO:HA	2.01	0.59
1:DA:7:VAL:HG12	1:DA:9:SER:H	1.66	0.59
1:DA:574:ASN:OD1	1:DA:574:ASN:N	2.32	0.59
1:DA:669:LEU:HD13	1:DA:673:HIS:HB3	1.84	0.59
2:DB:714:ARG:HG3	2:DB:922:GLY:HA3	1.83	0.59
5:DE:19:VAL:O	5:DE:23:VAL:HG23	2.02	0.59
11:DK:51:THR:O	11:DK:54:THR:OG1	2.19	0.59
1:EA:892:LEU:O	1:EA:896:THR:OG1	2.19	0.59
1:EA:1033:SER:HB3	6:EF:139:PRO:CG	2.30	0.59
1:EA:1146:SER:OG	1:EA:1147:PHE:N	2.31	0.59
1:EA:1272:VAL:HG12	1:EA:1273:THR:H	1.67	0.59
2:EB:18:THR:HA	2:EB:21:ARG:NH2	2.16	0.59
2:EB:1150:LYS:N	2:EB:1150:LYS:HZ2	1.99	0.59
4:ED:89:LEU:HA	4:ED:92:ILE:HD12	1.84	0.59
1:FA:1487:ASN:O	1:FA:1490:GLU:N	2.36	0.59
1:FA:1555:VAL:N	5:FE:182:ASP:OD1	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:52:LEU:HD22	2:FB:61:LEU:HD21	1.85	0.59
3:FC:77:SER:O	3:FC:210:LEU:HA	2.02	0.59
7:FG:37:CYS:HB3	7:FG:125:TRP:CD1	2.37	0.59
12:AL:63:ARG:HG2	12:AL:64:LEU:N	2.15	0.59
14:AN:55:LEU:O	14:AN:136:VAL:HG13	2.01	0.59
1:BA:530:TRP:HZ2	1:BA:582:LYS:HA	1.67	0.59
2:BB:250:LEU:HD11	2:BB:378:ILE:HD13	1.84	0.59
2:BB:1037:ARG:O	2:BB:1039:MET:N	2.34	0.59
2:BB:1121:GLY:HA2	7:BG:241:ARG:NH2	2.16	0.59
1:CA:549:MET:SD	1:CA:553:GLN:HB2	2.42	0.59
2:CB:170:CYS:SG	2:CB:172:LEU:N	2.73	0.59
2:CB:383:SER:OG	2:CB:384:LEU:N	2.33	0.59
2:CB:526:GLY:HA2	2:CB:696:ILE:HG22	1.84	0.59
3:CC:174:ARG:O	3:CC:178:THR:OG1	2.12	0.59
1:DA:1638:SER:HA	1:DA:1641:ILE:HD12	1.84	0.59
2:DB:274:VAL:HA	2:DB:277:LEU:HD12	1.84	0.59
2:DB:383:SER:OG	2:DB:384:LEU:N	2.34	0.59
1:EA:511:VAL:HG22	1:EA:519:LEU:HD12	1.84	0.59
1:EA:718:THR:O	8:EH:98:TYR:N	2.35	0.59
2:EB:795:GLU:OE2	3:EC:216:HIS:HA	2.02	0.59
13:EM:40:LEU:HD12	13:EM:41:TYR:H	1.68	0.59
1:FA:461:GLU:HA	1:FA:465:GLY:HA2	1.83	0.59
1:FA:831:ASP:OD1	1:FA:831:ASP:N	2.35	0.59
1:FA:843:ARG:NE	1:FA:945:CYS:O	2.34	0.59
1:FA:1263:LEU:O	1:FA:1265:GLU:N	2.36	0.59
2:FB:554:GLN:HA	2:FB:646:HIS:CD2	2.38	0.59
2:FB:751:ILE:HG23	2:FB:752:VAL:HG22	1.84	0.59
2:FB:774:ALA:HB3	2:FB:948:ILE:HA	1.83	0.59
2:FB:849:GLY:H	2:FB:882:ILE:HB	1.67	0.59
2:FB:1138:ALA:O	2:FB:1141:LEU:HG	2.01	0.59
1:AA:102:CYS:HB2	1:AA:109:ARG:HG2	1.84	0.59
1:AA:1273:THR:OG1	1:AA:1291:VAL:HB	2.03	0.59
2:AB:104:ILE:HB	2:AB:169:ARG:HG3	1.84	0.59
2:AB:228:SER:HB2	2:AB:253:LEU:HD13	1.85	0.59
2:AB:863:ASP:HB3	2:AB:866:LEU:HB2	1.83	0.59
3:AC:85:PHE:O	12:AL:64:LEU:HA	2.02	0.59
8:AH:118:PHE:HB2	8:AH:121:LEU:HB2	1.85	0.59
1:BA:102:CYS:HB2	1:BA:109:ARG:HG2	1.82	0.59
1:BA:669:LEU:HD12	1:BA:786:TYR:CD1	2.33	0.59
1:BA:1019:LEU:HD23	1:BA:1020:GLN:N	2.18	0.59
2:BB:857:PRO:HA	2:BB:871:ILE:HD11	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:98:GLU:O	11:BK:100:LEU:N	2.35	0.59
14:BN:105:SER:OG	14:BN:132:GLN:NE2	2.35	0.59
1:CA:1151:ASN:HB3	1:CA:1154:LEU:HD12	1.85	0.59
1:CA:1623:THR:HA	1:CA:1626:VAL:HG22	1.85	0.59
2:CB:35:PHE:HB3	2:CB:38:LEU:HD23	1.83	0.59
6:CF:92:ARG:O	6:CF:96:THR:OG1	2.21	0.59
13:CM:113:ILE:O	13:CM:113:ILE:HG22	2.03	0.59
1:DA:897:SER:HA	1:DA:900:VAL:HG22	1.84	0.59
1:DA:937:ASN:HB3	9:DI:82:ILE:HD11	1.84	0.59
1:DA:1236:PRO:HB2	1:DA:1524:VAL:HG23	1.84	0.59
2:DB:971:ALA:O	2:DB:974:LEU:N	2.36	0.59
3:DC:85:PHE:O	12:DL:64:LEU:HA	2.03	0.59
11:DK:60:SER:OG	11:DK:104:ARG:NH2	2.30	0.59
2:EB:1047:ARG:NH2	2:EB:1059:PRO:HB3	2.18	0.59
1:FA:1003:ARG:CZ	2:FB:520:LEU:HD22	2.32	0.59
1:FA:1662:ASN:HB3	7:FG:57:PRO:HD2	1.84	0.59
4:FD:32:SER:N	4:FD:35:GLU:OE2	2.35	0.59
5:FE:5:ASN:ND2	5:FE:52:ARG:HH21	1.98	0.59
7:FG:10:ASN:HB2	7:FG:14:ALA:HB3	1.84	0.59
8:FH:63:LEU:HB2	8:FH:88:SER:HB2	1.84	0.59
11:FK:80:ILE:HD13	11:FK:105:ILE:HD11	1.83	0.59
13:FM:10:ILE:HB	14:FN:70:LEU:HD21	1.84	0.59
1:AA:943:ILE:HA	1:AA:986:PHE:HB2	1.85	0.59
2:AB:888:ILE:HG13	12:AL:55:ILE:HA	1.85	0.59
1:BA:74:GLY:HA3	1:BA:364:PRO:HB3	1.84	0.59
1:BA:509:GLU:OE1	1:BA:579:ARG:NH2	2.34	0.59
1:BA:1272:VAL:O	1:BA:1273:THR:OG1	2.19	0.59
1:BA:1617:THR:CB	1:BA:1620:GLN:HG2	2.33	0.59
3:BC:45:SER:OG	3:BC:271:ARG:NH2	2.24	0.59
1:DA:835:LEU:HD22	1:DA:915:GLY:O	2.02	0.59
1:DA:1146:SER:OG	1:DA:1147:PHE:N	2.33	0.59
1:DA:1484:LEU:HD13	2:DB:305:ARG:CZ	2.32	0.59
1:DA:1545:ASP:OD1	1:DA:1546:VAL:N	2.29	0.59
2:DB:98:SER:HA	2:DB:421:LEU:HD21	1.84	0.59
2:DB:849:GLY:H	2:DB:882:ILE:HB	1.68	0.59
14:DN:75:GLU:H	14:DN:91:ASP:CB	2.16	0.59
1:EA:1508:VAL:O	1:EA:1510:PRO:HD3	2.01	0.59
6:EF:97:ARG:HA	6:EF:100:GLN:HG3	1.85	0.59
1:FA:440:SER:N	1:FA:458:GLN:HE22	2.01	0.59
1:FA:865:ASP:OD2	1:FA:867:ASP:N	2.34	0.59
2:FB:392:ASP:HB3	2:FB:399:HIS:CE1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FD:22:ILE:HG23	7:FG:44:ALA:O	2.02	0.59
14:FN:55:LEU:O	14:FN:136:VAL:HG13	2.03	0.59
1:AA:615:ARG:NH2	2:AB:928:SER:OG	2.36	0.59
2:AB:956:SER:O	9:AI:107:GLY:HA2	2.02	0.59
1:BA:782:ASP:OD1	1:BA:783:LYS:N	2.36	0.59
3:BC:329:LYS:CD	11:BK:122:LYS:HE2	2.33	0.59
1:CA:1508:VAL:O	1:CA:1510:PRO:HD3	2.02	0.59
2:CB:104:ILE:HA	2:CB:137:LEU:HD22	1.85	0.59
8:CH:15:VAL:HG22	8:CH:26:ILE:HG12	1.85	0.59
1:DA:323:ILE:O	1:DA:327:VAL:HG23	2.03	0.59
1:DA:1019:LEU:HD21	1:DA:1194:GLY:HA2	1.84	0.59
1:EA:478:TYR:O	2:EB:1091:ARG:NH2	2.36	0.59
2:EB:887:LEU:HB3	2:EB:901:VAL:HG13	1.84	0.59
5:EE:152:LYS:HE3	5:EE:154:ILE:HD11	1.84	0.59
11:EK:49:LEU:HD12	11:EK:62:SER:O	2.03	0.59
1:AA:812:VAL:HG12	1:AA:813:LEU:HD23	1.84	0.59
2:AB:832:TRP:CZ3	2:AB:834:LYS:HA	2.37	0.59
6:AF:101:ILE:HG21	6:AF:120:ILE:HG21	1.84	0.59
1:BA:855:ARG:O	1:BA:858:ALA:N	2.35	0.59
1:BA:1235:THR:O	1:BA:1544:ASN:ND2	2.36	0.59
1:BA:1623:THR:HA	1:BA:1626:VAL:HG22	1.85	0.59
2:BB:170:CYS:SG	2:BB:172:LEU:N	2.74	0.59
2:BB:773:VAL:HG21	2:BB:1031:VAL:HB	1.85	0.59
7:BO:300:VAL:O	7:BO:308:ILE:HG13	2.02	0.59
1:CA:55:GLY:HA2	1:CA:72:CYS:SG	2.42	0.59
5:CE:152:LYS:HE3	5:CE:154:ILE:HD11	1.83	0.59
5:CE:156:LEU:HD21	5:CE:197:LYS:HB2	1.83	0.59
1:DA:856:GLU:OE1	1:DA:857:ALA:N	2.35	0.59
1:DA:1463:ASP:O	1:DA:1465:GLU:N	2.35	0.59
2:DB:108:MET:SD	2:DB:120:LYS:HA	2.42	0.59
7:DG:33:GLY:HA3	7:DG:230:ARG:NH1	2.18	0.59
1:EA:985:ARG:HD2	1:EA:987:TYR:HB3	1.84	0.59
1:EA:1289:SER:HA	1:EA:1475:GLU:OE1	2.03	0.59
2:EB:262:PHE:CE2	2:EB:269:TYR:HB2	2.37	0.59
2:FB:693:PRO:HB2	2:FB:984:TRP:CZ3	2.38	0.59
2:FB:718:GLN:CD	2:FB:920:ARG:HA	2.23	0.59
6:FF:147:SER:HB3	6:FF:150:GLU:HG2	1.83	0.59
1:AA:558:ALA:O	1:AA:561:LEU:HG	2.03	0.59
3:AC:77:SER:O	3:AC:210:LEU:HA	2.03	0.59
1:BA:947:LEU:HB2	1:BA:982:VAL:HG11	1.84	0.59
4:BD:22:ILE:HD12	7:BG:45:LEU:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:250:ILE:HG22	7:BG:251:SER:H	1.68	0.59
1:CA:680:LEU:HD12	1:CA:820:TYR:CD1	2.38	0.59
1:CA:1060:GLU:O	1:CA:1063:MET:N	2.35	0.59
2:CB:857:PRO:HA	2:CB:871:ILE:HD11	1.85	0.59
3:CC:70:ILE:O	3:CC:72:ILE:N	2.35	0.59
1:DA:818:THR:HG23	2:DB:780:GLY:HA3	1.83	0.59
2:DB:986:PHE:CD2	2:DB:992:PRO:HG3	2.38	0.59
5:DE:137:GLU:C	5:DE:139:ALA:H	2.04	0.59
6:DF:83:PRO:O	6:DF:151:LEU:HD22	2.03	0.59
11:DK:118:GLN:O	11:DK:121:LEU:N	2.36	0.59
1:EA:1092:GLU:O	1:EA:1094:ALA:N	2.35	0.59
2:EB:41:ALA:HB1	2:EB:501:ARG:HH11	1.67	0.59
2:EB:547:HIS:HB2	2:EB:760:TYR:OH	2.02	0.59
2:EB:811:LEU:HD13	2:EB:823:GLN:NE2	2.14	0.59
7:EG:89:ILE:HA	7:EG:118:CYS:SG	2.43	0.59
7:EG:226:ASP:O	2:FB:434:ARG:NH1	2.36	0.59
14:EN:58:PHE:HA	14:EN:139:VAL:HG23	1.85	0.59
14:EN:71:PRO:HB2	14:EN:89:ILE:HD12	1.85	0.59
1:FA:7:VAL:HG11	2:FB:1175:THR:O	2.03	0.59
1:FA:447:THR:HG1	1:FA:451:VAL:N	2.01	0.59
1:FA:1502:PRO:O	1:FA:1503:HIS:HB2	2.02	0.59
1:AA:591:ARG:HB2	1:AA:633:MET:HG2	1.83	0.59
1:AA:1136:VAL:HG11	1:AA:1140:PHE:HD2	1.67	0.59
1:AA:1538:VAL:HA	1:AA:1541:ILE:HD11	1.85	0.59
2:AB:412:ILE:O	2:AB:416:LYS:HG2	2.03	0.59
3:AC:201:GLU:O	3:AC:202:ILE:HD12	2.01	0.59
8:AH:60:ALA:O	8:AH:140:ALA:HB1	2.03	0.59
7:AO:279:VAL:HG22	7:BG:159:LYS:NZ	2.18	0.59
1:BA:440:SER:N	1:BA:458:GLN:HE22	2.01	0.59
1:BA:748:ASN:ND2	1:BA:1072:ASN:OD1	2.36	0.59
1:BA:1463:ASP:C	1:BA:1465:GLU:H	2.06	0.59
2:BB:554:GLN:HA	2:BB:646:HIS:CD2	2.38	0.59
3:BC:255:VAL:HG12	3:BC:256:ILE:HG12	1.85	0.59
14:BN:55:LEU:O	14:BN:136:VAL:HG13	2.02	0.59
1:CA:549:MET:SD	1:CA:553:GLN:NE2	2.76	0.59
1:CA:947:LEU:HB2	1:CA:982:VAL:HG11	1.84	0.59
1:CA:1601:GLN:C	1:CA:1603:MET:H	2.06	0.59
7:CG:10:ASN:HB2	7:CG:14:ALA:HB3	1.85	0.59
2:DB:75:ASP:OD2	2:DB:93:ASN:ND2	2.36	0.59
2:DB:212:ASN:ND2	2:DB:239:VAL:HG22	2.11	0.59
5:DE:178:ILE:HG22	5:DE:212:ARG:HB3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:683:ASN:HA	14:EN:150:TYR:CE1	2.37	0.59
12:EL:30:ILE:O	12:EL:57:LEU:HD12	2.02	0.59
1:FA:1247:SER:OG	1:FA:1249:GLU:N	2.33	0.59
1:FA:1263:LEU:C	1:FA:1265:GLU:H	2.06	0.59
1:FA:1298:ASP:N	1:FA:1298:ASP:OD1	2.31	0.59
1:FA:1658:ALA:O	7:FG:104:LEU:HA	2.03	0.59
2:FB:609:ARG:O	2:FB:612:LYS:HB3	2.03	0.59
7:FG:50:ALA:HA	7:FG:113:PHE:CE2	2.38	0.59
1:AA:399:LEU:CD1	7:AO:270:LEU:HD13	2.33	0.58
1:AA:1019:LEU:HD23	1:AA:1020:GLN:N	2.18	0.58
2:AB:41:ALA:HB1	2:AB:501:ARG:HH11	1.68	0.58
3:AC:147:PRO:HG2	3:AC:150:SER:HB2	1.85	0.58
1:CA:966:LEU:HD12	1:CA:967:PRO:HD2	1.83	0.58
1:CA:1273:THR:OG1	1:CA:1291:VAL:HB	2.03	0.58
1:CA:1294:MET:HG2	1:CA:1296:PHE:CE1	2.38	0.58
2:CB:105:ALA:O	2:CB:135:GLY:HA3	2.03	0.58
2:CB:693:PRO:HB2	2:CB:984:TRP:CZ3	2.37	0.58
3:CC:65:ASN:OD1	3:CC:68:ARG:NH1	2.36	0.58
3:CC:88:ASN:OD1	3:CC:202:ILE:HD11	2.03	0.58
1:DA:615:ARG:NH2	2:DB:928:SER:OG	2.37	0.58
2:DB:35:PHE:HB3	2:DB:38:LEU:HD23	1.85	0.58
2:DB:228:SER:HB2	2:DB:253:LEU:HD13	1.84	0.58
2:DB:886:ASN:O	2:DB:902:SER:N	2.27	0.58
3:DC:233:ILE:HD11	3:DC:291:LEU:HG	1.84	0.58
7:DG:149:ILE:HG22	7:DG:150:HIS:CD2	2.32	0.58
1:EA:468:ARG:HD2	1:EA:1021:ARG:NH1	2.17	0.58
4:ED:32:SER:N	4:ED:35:GLU:OE2	2.36	0.58
2:FB:832:TRP:CZ3	2:FB:834:LYS:HA	2.38	0.58
1:AA:522:ALA:HB1	1:AA:532:GLY:HA2	1.84	0.58
5:AE:19:VAL:O	5:AE:23:VAL:HG23	2.03	0.58
13:AM:59:ARG:HD2	13:AM:60:LEU:HD21	1.85	0.58
1:BA:1540:GLY:HA2	5:BE:148:GLU:OE2	2.03	0.58
2:BB:41:ALA:HB1	2:BB:501:ARG:HH11	1.68	0.58
2:BB:916:LYS:HE3	2:BB:1040:VAL:HG13	1.85	0.58
2:BB:1060:VAL:HG21	7:BO:311:GLU:OE2	2.03	0.58
5:BE:178:ILE:HG22	5:BE:212:ARG:HB3	1.85	0.58
1:CA:1456:PHE:CB	1:CA:1474:LEU:HD11	2.32	0.58
2:CB:41:ALA:HB1	2:CB:501:ARG:HH11	1.68	0.58
2:CB:832:TRP:CZ3	2:CB:834:LYS:HA	2.38	0.58
4:CD:82:LEU:HD22	7:CG:67:ASN:HD22	1.68	0.58
1:DA:473:GLY:HA2	2:DB:1071:VAL:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1601:GLN:C	1:DA:1603:MET:H	2.06	0.58
1:DA:1617:THR:CB	1:DA:1620:GLN:HG2	2.33	0.58
2:DB:393:ASN:ND2	2:DB:395:ASP:HB2	2.18	0.58
2:DB:693:PRO:HB2	2:DB:984:TRP:CZ3	2.38	0.58
2:DB:852:VAL:HG13	2:DB:856:ASP:HB2	1.84	0.58
7:DG:72:LYS:O	7:DG:81:VAL:HG23	2.03	0.58
1:EA:477:ASN:OD1	2:EB:1049:THR:HG23	2.03	0.58
3:FC:128:ASP:OD1	3:FC:174:ARG:NH1	2.36	0.58
5:FE:56:LYS:HG3	5:FE:84:ASP:OD2	2.03	0.58
1:AA:585:ASP:OD1	1:AA:644:ARG:NH1	2.36	0.58
1:AA:1215:VAL:HG22	1:AA:1216:THR:H	1.67	0.58
1:AA:1289:SER:HA	1:AA:1475:GLU:OE1	2.04	0.58
2:AB:940:GLU:HB2	2:AB:1012:PRO:HB2	1.84	0.58
5:AE:157:SER:OG	5:AE:160:GLU:HG3	2.04	0.58
9:AI:73:LYS:HA	9:AI:76:LEU:HD12	1.85	0.58
14:AN:122:ALA:O	14:AN:130:PRO:HA	2.03	0.58
1:BA:387:SER:HA	1:BA:390:LEU:HD12	1.84	0.58
1:BA:596:HIS:H	1:BA:596:HIS:HD2	1.50	0.58
2:BB:262:PHE:CZ	2:BB:269:TYR:HB2	2.37	0.58
1:CA:1139:ASN:HB2	5:CE:205:SER:HA	1.85	0.58
1:DA:447:THR:HG1	1:DA:451:VAL:N	2.01	0.58
1:DA:1118:VAL:HG11	5:DE:154:ILE:HG13	1.85	0.58
2:DB:22:GLU:OE2	10:DJ:55:ASP:N	2.33	0.58
2:DB:547:HIS:HB2	2:DB:760:TYR:OH	2.04	0.58
2:DB:625:GLU:HB2	2:DB:643:PHE:O	2.03	0.58
2:DB:703:LEU:HD23	2:DB:754:ALA:HB3	1.85	0.58
3:DC:101:ILE:HA	3:DC:104:VAL:HG23	1.83	0.58
1:EA:1621:PHE:CD1	1:EA:1624:LYS:HE2	2.38	0.58
2:EB:52:LEU:HB3	2:EB:61:LEU:CD1	2.33	0.58
7:EG:82:LEU:HG	7:EG:124:VAL:HA	1.85	0.58
1:FA:55:GLY:HA2	1:FA:72:CYS:SG	2.43	0.58
1:FA:1258:ILE:O	1:FA:1501:ILE:HG13	2.03	0.58
1:FA:1621:PHE:CD1	1:FA:1624:LYS:HE2	2.38	0.58
2:FB:41:ALA:HB1	2:FB:501:ARG:HH11	1.67	0.58
2:FB:274:VAL:HA	2:FB:277:LEU:HD12	1.85	0.58
2:FB:904:LYS:C	2:FB:905:TYR:HD1	2.06	0.58
8:FH:101:ALA:HB2	8:FH:116:TYR:CE1	2.37	0.58
1:AA:349:LEU:HD12	1:AA:351:LYS:HE3	1.85	0.58
1:AA:545:SER:O	1:AA:545:SER:OG	2.19	0.58
1:AA:1326:GLU:OE1	1:AA:1454:HIS:HB3	2.03	0.58
1:AA:1333:ILE:HD11	1:AA:1483:LEU:HD11	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:19:LEU:HD21	10:AJ:25:LEU:HB3	1.84	0.58
2:AB:782:ASP:HB3	2:AB:788:ILE:HG12	1.85	0.58
2:AB:916:LYS:HE3	2:AB:1040:VAL:HG13	1.86	0.58
3:AC:65:ASN:OD1	3:AC:68:ARG:NH1	2.36	0.58
8:AH:15:VAL:HG22	8:AH:26:ILE:HG12	1.84	0.58
7:AO:265:SER:N	7:AO:268:GLU:OE1	2.36	0.58
7:AO:265:SER:O	7:AO:267:ALA:N	2.29	0.58
1:BA:1261:VAL:HG12	1:BA:1498:ILE:HD12	1.84	0.58
4:CD:89:LEU:HA	4:CD:92:ILE:HD12	1.86	0.58
1:DA:537:GLN:HE21	1:DA:541:GLY:HA2	1.67	0.58
1:DA:581:ILE:HD11	1:DA:605:VAL:HG21	1.85	0.58
1:DA:966:LEU:HD23	1:DA:969:PHE:CD2	2.39	0.58
2:DB:584:CYS:HB2	2:DB:598:HIS:ND1	2.18	0.58
2:DB:863:ASP:HB3	2:DB:866:LEU:HB2	1.86	0.58
4:DD:89:LEU:HA	4:DD:92:ILE:HD12	1.86	0.58
13:DM:10:ILE:HB	14:DN:70:LEU:HD21	1.86	0.58
14:DN:55:LEU:HD12	14:DN:56:ILE:H	1.67	0.58
2:EB:213:HIS:HB2	2:EB:643:PHE:HZ	1.68	0.58
2:EB:1178:ILE:HD12	2:EB:1179:PRO:O	2.03	0.58
9:EI:38:PRO:HG2	9:EI:41:GLN:HB2	1.85	0.58
1:FA:482:SER:HB2	2:FB:1044:PHE:HB3	1.85	0.58
1:AA:475:ARG:NH1	2:AB:1068:GLY:O	2.36	0.58
2:AB:474:SER:O	2:AB:476:LEU:N	2.36	0.58
2:AB:975:HIS:NE2	2:AB:1003:ALA:HB2	2.18	0.58
2:AB:1046:VAL:HG22	2:AB:1047:ARG:H	1.67	0.58
6:AF:100:GLN:HG2	7:AG:112:PRO:CB	2.34	0.58
14:AN:55:LEU:HB3	14:AN:136:VAL:HG22	1.84	0.58
2:BB:774:ALA:HB3	2:BB:948:ILE:HA	1.85	0.58
7:BG:37:CYS:HB3	7:BG:125:TRP:HD1	1.69	0.58
9:BI:2:SER:HA	9:BI:9:PHE:O	2.04	0.58
3:CC:101:ILE:HA	3:CC:104:VAL:HG23	1.84	0.58
1:DA:586:VAL:HG13	1:DA:638:PRO:HG2	1.84	0.58
1:DA:1342:PRO:CG	2:DB:259:THR:HG22	2.33	0.58
5:EE:137:GLU:O	5:EE:139:ALA:N	2.36	0.58
1:FA:669:LEU:HD13	1:FA:673:HIS:HB3	1.85	0.58
7:FG:72:LYS:O	7:FG:81:VAL:HG23	2.04	0.58
1:AA:211:THR:O	1:AA:214:ASP:N	2.37	0.58
9:AI:101:LEU:HD11	9:AI:122:ARG:HH22	1.68	0.58
1:BA:558:ALA:O	1:BA:561:LEU:HG	2.04	0.58
1:BA:674:ILE:O	1:BA:678:VAL:HG23	2.04	0.58
1:CA:522:ALA:HB1	1:CA:532:GLY:HA2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:835:LEU:HD22	1:CA:915:GLY:O	2.04	0.58
1:CA:1240:LEU:HD11	1:CA:1529:MET:SD	2.42	0.58
1:CA:1248:ASP:O	1:CA:1251:ALA:HB3	2.03	0.58
1:CA:1619:CYS:O	1:CA:1622:LEU:HB3	2.04	0.58
2:CB:474:SER:O	2:CB:476:LEU:N	2.36	0.58
2:CB:572:PRO:O	2:CB:576:THR:OG1	2.06	0.58
2:CB:795:GLU:OE2	3:CC:216:HIS:HA	2.04	0.58
2:CB:846:PRO:HG3	2:CB:858:ILE:O	2.03	0.58
1:DA:669:LEU:HD22	1:DA:673:HIS:ND1	2.19	0.58
1:DA:785:GLN:O	1:DA:794:VAL:HG22	2.02	0.58
2:DB:1053:ASN:ND2	2:DB:1054:SER:H	2.02	0.58
3:DC:303:GLU:OE1	10:DJ:43:ARG:NH2	2.36	0.58
14:DN:71:PRO:HB2	14:DN:89:ILE:HD12	1.86	0.58
1:EA:553:GLN:NE2	2:FB:834:LYS:HB2	2.18	0.58
2:EB:130:LEU:HD22	2:EB:198:GLY:HA3	1.84	0.58
2:EB:983:PRO:HB2	2:EB:984:TRP:CE3	2.39	0.58
5:EE:57:MET:SD	5:EE:57:MET:N	2.67	0.58
2:FB:242:ASP:OD1	2:FB:244:THR:HG23	2.04	0.58
2:FB:783:MET:O	2:FB:785:ASP:N	2.37	0.58
3:FC:109:ASP:HB3	3:FC:112:MET:HE2	1.83	0.58
1:AA:125:LEU:HD11	1:AA:219:LEU:HD12	1.85	0.58
1:AA:1474:LEU:HD13	1:AA:1475:GLU:N	2.16	0.58
1:BA:1553:TYR:CZ	5:BE:147:HIS:CD2	2.92	0.58
2:BB:1026:ILE:HD11	2:BB:1028:VAL:HG13	1.86	0.58
7:BG:88:LYS:O	7:BG:118:CYS:HB3	2.03	0.58
9:BI:38:PRO:HG2	9:BI:41:GLN:HB2	1.86	0.58
1:CA:1236:PRO:HB2	1:CA:1524:VAL:HG23	1.86	0.58
2:CB:262:PHE:CZ	2:CB:269:TYR:HB2	2.39	0.58
2:CB:675:ALA:O	2:CB:690:GLU:HG2	2.02	0.58
3:CC:328:LEU:HB3	11:CK:121:LEU:HD11	1.85	0.58
5:CE:7:ARG:O	5:CE:11:ARG:HG3	2.03	0.58
1:DA:1456:PHE:CB	1:DA:1474:LEU:HD11	2.31	0.58
2:DB:572:PRO:O	2:DB:576:THR:OG1	2.13	0.58
2:DB:588:ILE:O	2:DB:591:LYS:HG2	2.02	0.58
7:DG:37:CYS:HB3	7:DG:125:TRP:CD1	2.38	0.58
9:DI:2:SER:HB2	9:DI:11:LEU:HD21	1.85	0.58
10:DJ:43:ARG:O	10:DJ:47:ARG:HG3	2.04	0.58
12:DL:32:ALA:HB2	12:DL:57:LEU:HG	1.86	0.58
1:EA:1294:MET:HG2	1:EA:1296:PHE:CE1	2.38	0.58
2:EB:850:THR:N	2:EB:882:ILE:HG13	2.16	0.58
1:FA:111:LYS:O	1:FA:115:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:468:ARG:HD2	1:FA:1021:ARG:NH1	2.19	0.58
1:FA:1151:ASN:HB3	1:FA:1154:LEU:HD12	1.85	0.58
2:FB:962:MET:O	2:FB:965:GLU:N	2.37	0.58
3:FC:230:LEU:HD12	3:FC:231:PRO:HD2	1.85	0.58
7:FG:40:ARG:HD3	7:FG:123:TYR:HE1	1.69	0.58
8:FH:7:ASP:HB2	8:FH:57:VAL:O	2.03	0.58
1:AA:1463:ASP:C	1:AA:1465:GLU:H	2.06	0.58
2:AB:558:VAL:HA	2:AB:561:ILE:HG13	1.86	0.58
1:BA:1294:MET:HG2	1:BA:1296:PHE:CE1	2.39	0.58
2:BB:130:LEU:HD22	2:BB:198:GLY:HA3	1.85	0.58
7:BG:61:VAL:HG11	7:BG:87:LEU:HD21	1.84	0.58
13:BM:10:ILE:HB	14:BN:70:LEU:HD21	1.85	0.58
1:CA:499:PRO:HG3	1:CA:609:PRO:HA	1.86	0.58
1:CA:550:SER:O	1:CA:553:GLN:HG3	2.03	0.58
1:CA:591:ARG:HB2	1:CA:633:MET:HG2	1.86	0.58
2:CB:751:ILE:HG23	2:CB:752:VAL:HG22	1.85	0.58
2:CB:874:TYR:CZ	2:CB:876:SER:HB2	2.39	0.58
1:DA:727:THR:OG1	1:DA:728:GLY:N	2.37	0.58
1:DA:1217:LEU:HD11	1:DA:1572:ARG:HD2	1.85	0.58
1:DA:1538:VAL:HA	1:DA:1541:ILE:HD11	1.86	0.58
1:DA:1586:ALA:O	1:DA:1589:MET:N	2.36	0.58
1:FA:943:ILE:HA	1:FA:986:PHE:HB2	1.85	0.58
2:FB:644:GLY:HA2	2:FB:648:ARG:CZ	2.34	0.58
12:FL:33:GLU:HG2	12:FL:55:ILE:HG12	1.85	0.58
7:FO:297:LEU:HD22	7:FO:310:TYR:CE2	2.38	0.58
1:AA:1108:HIS:CG	1:AA:1117:SER:HB3	2.39	0.58
6:AF:101:ILE:HD13	6:AF:120:ILE:HG22	1.85	0.58
8:AH:7:ASP:HB2	8:AH:57:VAL:O	2.04	0.58
1:BA:1447:GLN:HG3	1:BA:1460:TYR:HB3	1.84	0.58
2:BB:52:LEU:HB3	2:BB:61:LEU:CD1	2.34	0.58
4:BD:32:SER:N	4:BD:35:GLU:OE2	2.37	0.58
1:CA:596:HIS:H	1:CA:596:HIS:HD2	1.51	0.58
1:CA:809:VAL:HG13	1:CA:813:LEU:HD11	1.85	0.58
1:CA:1289:SER:HA	1:CA:1475:GLU:OE1	2.02	0.58
6:CF:101:ILE:HD13	6:CF:120:ILE:HG22	1.85	0.58
1:DA:758:GLU:O	1:DA:760:TRP:N	2.36	0.58
1:DA:1333:ILE:HD11	1:DA:1483:LEU:HD11	1.85	0.58
1:EA:480:ALA:HB2	2:EB:1046:VAL:HG23	1.86	0.58
1:EA:943:ILE:HA	1:EA:986:PHE:HB2	1.85	0.58
1:EA:1273:THR:OG1	1:EA:1291:VAL:HB	2.03	0.58
2:EB:960:ILE:O	2:EB:963:PHE:HB2	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1271:ILE:HG23	9:FI:50:THR:HG22	1.85	0.58
2:FB:675:ALA:O	2:FB:690:GLU:HG2	2.03	0.58
5:FE:156:LEU:HD21	5:FE:197:LYS:HB2	1.86	0.58
11:FK:46:LYS:HE3	11:FK:66:VAL:O	2.03	0.58
2:AB:392:ASP:HB3	2:AB:399:HIS:CE1	2.39	0.58
5:AE:7:ARG:O	5:AE:11:ARG:HG3	2.03	0.58
7:AG:88:LYS:O	7:AG:118:CYS:HB3	2.03	0.58
7:AG:174:GLU:HG3	2:BB:463:TYR:HE2	1.69	0.58
11:AK:83:ASN:HB3	11:AK:86:VAL:HG23	1.85	0.58
1:BA:1324:LEU:HD22	1:BA:1492:ILE:HG13	1.85	0.58
1:BA:1502:PRO:O	1:BA:1503:HIS:HB2	2.03	0.58
2:BB:286:ARG:HG2	13:BM:27:PHE:CG	2.38	0.58
2:BB:940:GLU:HB2	2:BB:1012:PRO:HB2	1.86	0.58
6:BF:70:LYS:HG3	7:BG:94:PRO:O	2.04	0.58
1:CA:422:ARG:HD2	7:CO:271:PRO:O	2.03	0.58
1:CA:850:SER:O	1:CA:852:ASP:N	2.37	0.58
2:CB:408:LEU:HA	2:CB:411:MET:HG3	1.86	0.58
2:CB:1138:ALA:O	2:CB:1141:LEU:HG	2.03	0.58
2:CB:1143:THR:O	2:CB:1143:THR:HG23	2.03	0.58
13:CM:78:VAL:O	13:CM:91:TYR:N	2.29	0.58
1:DA:123:ARG:HD3	1:DA:337:TYR:CE1	2.38	0.58
1:DA:947:LEU:HB2	1:DA:982:VAL:HG11	1.86	0.58
1:DA:1289:SER:HA	1:DA:1475:GLU:OE1	2.04	0.58
3:DC:77:SER:O	3:DC:210:LEU:HA	2.04	0.58
14:DN:97:SER:HB3	14:DN:105:SER:HB3	1.86	0.58
1:EA:522:ALA:HB1	1:EA:532:GLY:HA2	1.86	0.58
1:EA:727:THR:OG1	1:EA:728:GLY:N	2.33	0.58
1:EA:1637:PRO:HG3	1:EA:1647:ASN:HD21	1.68	0.58
2:EB:98:SER:HA	2:EB:421:LEU:HD21	1.85	0.58
2:EB:939:SER:OG	2:EB:943:ILE:N	2.37	0.58
2:EB:1151:ILE:HG22	2:EB:1152:PHE:H	1.69	0.58
10:EJ:31:ASP:OD1	10:EJ:34:THR:HB	2.03	0.58
12:EL:40:LEU:HD22	12:EL:44:ASP:HB3	1.86	0.58
7:EO:267:ALA:O	7:EO:270:LEU:HG	2.04	0.58
1:FA:530:TRP:HZ2	1:FA:582:LYS:HA	1.68	0.58
1:FA:818:THR:CG2	2:FB:780:GLY:HA3	2.34	0.58
1:FA:1538:VAL:HA	1:FA:1541:ILE:HD11	1.85	0.58
2:FB:66:LYS:C	2:FB:68:ILE:H	2.06	0.58
2:FB:775:VAL:H	2:FB:1028:VAL:HG12	1.69	0.58
2:FB:1198:TYR:H	2:FB:1198:TYR:HD2	1.50	0.58
7:FO:282:ASP:O	7:FO:286:ILE:HG12	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:1006:ASN:HB3	2:AB:1010:ASN:O	2.03	0.57
6:AF:147:SER:HB3	6:AF:150:GLU:HG2	1.86	0.57
1:BA:1019:LEU:HD21	1:BA:1194:GLY:HA2	1.85	0.57
2:BB:52:LEU:HD22	2:BB:61:LEU:HD21	1.86	0.57
2:BB:753:LYS:O	2:BB:981:SER:OG	2.18	0.57
3:BC:150:SER:OG	3:BC:155:GLU:OE2	2.15	0.57
10:BJ:43:ARG:O	10:BJ:47:ARG:HG3	2.04	0.57
1:CA:1003:ARG:NH2	2:CB:520:LEU:HD22	2.19	0.57
1:CA:1288:ARG:HB2	1:CA:1478:ALA:HA	1.86	0.57
1:CA:1291:VAL:HG22	1:CA:1473:LYS:CD	2.34	0.57
1:DA:596:HIS:H	1:DA:596:HIS:HD2	1.51	0.57
1:DA:597:LYS:HB2	2:DB:1082:HIS:CE1	2.38	0.57
1:DA:1447:GLN:HG3	1:DA:1460:TYR:HB3	1.85	0.57
2:DB:548:LYS:HA	2:DB:550:ARG:NH2	2.19	0.57
1:EA:1094:ALA:HB2	1:EA:1132:TYR:HB3	1.86	0.57
9:EI:88:GLN:OE1	9:EI:119:TYR:HB2	2.03	0.57
1:FA:7:VAL:HG12	1:FA:9:SER:H	1.69	0.57
1:FA:1482:LYS:NZ	2:FB:304:ASP:OD1	2.31	0.57
2:FB:380:LYS:HE3	2:FB:637:TYR:HB3	1.85	0.57
5:FE:98:ILE:O	5:FE:102:GLU:HB2	2.04	0.57
1:AA:892:LEU:O	1:AA:896:THR:OG1	2.22	0.57
1:AA:1003:ARG:NH2	2:AB:520:LEU:HD22	2.19	0.57
2:AB:848:ILE:HG13	12:AL:60:ARG:HA	1.85	0.57
2:AB:967:LEU:H	2:AB:967:LEU:HD12	1.67	0.57
7:AG:45:LEU:CD1	7:AG:118:CYS:HB2	2.35	0.57
7:AO:279:VAL:HG22	7:BG:159:LYS:HZ2	1.68	0.57
1:BA:125:LEU:HD11	1:BA:219:LEU:HD12	1.86	0.57
3:BC:314:PHE:O	3:BC:317:SER:OG	2.17	0.57
3:CC:325:ALA:O	3:CC:328:LEU:N	2.35	0.57
4:CD:22:ILE:H	7:CG:76:LYS:NZ	2.03	0.57
14:CN:55:LEU:HB3	14:CN:136:VAL:HG22	1.86	0.57
2:DB:286:ARG:HG2	13:DM:27:PHE:CG	2.39	0.57
2:DB:783:MET:O	2:DB:785:ASP:N	2.37	0.57
7:DG:139:ILE:HD12	7:DG:140:GLN:H	1.69	0.57
1:EA:896:THR:O	1:EA:900:VAL:HG13	2.04	0.57
1:EA:1543:SER:OG	1:EA:1544:ASN:N	2.37	0.57
2:EB:886:ASN:N	2:EB:902:SER:O	2.29	0.57
2:EB:904:LYS:C	2:EB:905:TYR:HD1	2.08	0.57
8:EH:30:SER:HB3	8:EH:36:CYS:HB3	1.85	0.57
12:EL:33:GLU:HG2	12:EL:55:ILE:HG12	1.85	0.57
1:FA:30:LYS:NZ	1:FA:51:ASP:OD2	2.27	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:102:CYS:HB2	1:FA:109:ARG:HG2	1.86	0.57
1:FA:752:LYS:HG3	1:FA:768:GLU:HA	1.86	0.57
11:FK:83:ASN:HB3	11:FK:86:VAL:HG23	1.85	0.57
1:AA:699:CYS:SG	1:AA:700:ILE:N	2.77	0.57
1:AA:1288:ARG:HB2	1:AA:1478:ALA:HA	1.86	0.57
2:AB:98:SER:OG	2:AB:99:VAL:N	2.37	0.57
1:BA:58:LEU:HA	7:BO:298:PRO:HG3	1.85	0.57
1:BA:586:VAL:HG13	1:BA:638:PRO:HG2	1.86	0.57
1:BA:752:LYS:HG3	1:BA:768:GLU:HA	1.86	0.57
2:BB:403:LEU:HD11	2:BB:408:LEU:HB2	1.85	0.57
2:BB:986:PHE:CD2	2:BB:992:PRO:HG3	2.39	0.57
3:BC:164:ALA:HB2	3:BC:191:ILE:HB	1.86	0.57
6:BF:106:PRO:HG2	7:BG:55:GLU:HG2	1.85	0.57
1:CA:1269:LYS:HD2	1:CA:1271:ILE:HD11	1.87	0.57
1:CA:1298:ASP:N	1:CA:1298:ASP:OD1	2.37	0.57
1:DA:91:PHE:CD2	1:DA:249:THR:HG22	2.39	0.57
1:DA:1276:THR:HG23	1:DA:1288:ARG:NH1	2.18	0.57
1:DA:1305:GLU:HG3	9:DI:60:LEU:HG	1.85	0.57
2:DB:644:GLY:HA2	2:DB:648:ARG:CZ	2.34	0.57
7:DG:50:ALA:HA	7:DG:113:PHE:CE2	2.38	0.57
7:EO:314:THR:HB	7:EO:316:GLU:OE2	2.05	0.57
1:FA:1139:ASN:HB2	5:FE:205:SER:HA	1.86	0.57
2:FB:104:ILE:HD12	2:FB:169:ARG:HG3	1.86	0.57
7:FG:139:ILE:HD12	7:FG:140:GLN:H	1.68	0.57
1:AA:897:SER:HA	1:AA:900:VAL:HG22	1.86	0.57
1:AA:1085:LEU:HD13	6:AF:84:TYR:OH	2.04	0.57
1:AA:1585:ILE:O	1:AA:1589:MET:HG3	2.04	0.57
7:AG:10:ASN:HB2	7:AG:14:ALA:HB3	1.86	0.57
7:AG:159:LYS:NZ	7:BO:278:ILE:HB	2.20	0.57
8:AH:57:VAL:HG13	8:AH:144:ILE:HG13	1.84	0.57
1:BA:422:ARG:NH1	7:BO:270:LEU:O	2.37	0.57
1:BA:1151:ASN:HB3	1:BA:1154:LEU:HD12	1.85	0.57
2:BB:714:ARG:HG3	2:BB:922:GLY:HA3	1.86	0.57
2:BB:887:LEU:O	2:BB:888:ILE:HD12	2.04	0.57
11:BK:80:ILE:HD13	11:BK:105:ILE:HD11	1.85	0.57
13:BM:56:GLU:HB2	13:BM:61:GLU:HA	1.86	0.57
1:CA:511:VAL:HG22	1:CA:519:LEU:HD12	1.85	0.57
1:CA:581:ILE:HD11	1:CA:605:VAL:HG21	1.84	0.57
1:CA:1242:ILE:HD11	1:CA:1517:ARG:HB3	1.87	0.57
2:CB:212:ASN:ND2	2:CB:239:VAL:HG22	2.14	0.57
7:CG:159:LYS:NZ	7:DO:276:LYS:HA	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:55:LEU:HD12	14:CN:56:ILE:H	1.70	0.57
1:DA:914:ASP:O	1:DA:919:LYS:NZ	2.30	0.57
1:DA:1105:ARG:NH1	1:DA:1138:GLU:OE1	2.34	0.57
2:DB:757:TYR:CZ	2:DB:762:MET:HB3	2.39	0.57
2:DB:986:PHE:CD1	14:DN:160:VAL:HG21	2.39	0.57
6:DF:92:ARG:O	6:DF:96:THR:OG1	2.21	0.57
1:EA:429:THR:HG1	7:EO:273:VAL:HG11	1.70	0.57
1:EA:1622:LEU:HD11	2:EB:1194:ILE:HD13	1.86	0.57
2:EB:1053:ASN:ND2	2:EB:1054:SER:H	2.03	0.57
3:FC:83:VAL:HG22	3:FC:206:ALA:HB1	1.85	0.57
13:FM:12:ILE:HG21	14:FN:68:LYS:HA	1.86	0.57
14:FN:55:LEU:HB3	14:FN:136:VAL:HG22	1.86	0.57
1:AA:468:ARG:HD2	1:AA:1021:ARG:NH1	2.19	0.57
1:AA:968:SER:CB	2:AB:676:VAL:HG23	2.34	0.57
1:AA:1647:ASN:HD22	1:AA:1648:ASN:H	1.52	0.57
2:AB:554:GLN:HA	2:AB:646:HIS:CD2	2.39	0.57
3:AC:321:LEU:HD11	11:AK:124:LEU:HD21	1.86	0.57
9:AI:94:MET:HG2	9:AI:114:CYS:HA	1.85	0.57
12:AL:45:ALA:O	12:AL:47:ARG:N	2.37	0.57
1:BA:1456:PHE:CB	1:BA:1474:LEU:HD11	2.32	0.57
2:BB:757:TYR:CZ	2:BB:762:MET:HB3	2.40	0.57
5:BE:137:GLU:C	5:BE:139:ALA:H	2.08	0.57
1:CA:1175:MET:O	1:CA:1178:LEU:HG	2.04	0.57
1:CA:1332:GLU:O	1:CA:1336:GLN:HG2	2.04	0.57
12:CL:33:GLU:HG2	12:CL:55:ILE:HG12	1.85	0.57
13:CM:56:GLU:HB2	13:CM:61:GLU:HA	1.86	0.57
2:DB:843:ASP:HB2	2:DB:845:LEU:HD21	1.85	0.57
2:DB:960:ILE:O	2:DB:963:PHE:HB2	2.03	0.57
2:DB:1195:ARG:HH21	2:DB:1197:ARG:HD2	1.70	0.57
3:DC:174:ARG:O	3:DC:178:THR:OG1	2.12	0.57
1:EA:928:MET:HG3	1:EA:933:ALA:HB3	1.87	0.57
1:EA:936:SER:O	1:EA:940:VAL:HG23	2.05	0.57
2:EB:392:ASP:HB3	2:EB:399:HIS:CE1	2.39	0.57
2:EB:693:PRO:O	2:EB:696:ILE:HG13	2.03	0.57
2:EB:774:ALA:HB3	2:EB:948:ILE:HA	1.85	0.57
2:EB:999:GLN:NE2	14:EN:166:LEU:HD21	2.20	0.57
3:EC:83:VAL:N	12:EL:67:PHE:O	2.29	0.57
11:EK:80:ILE:HD13	11:EK:105:ILE:HD11	1.86	0.57
13:EM:81:PHE:HD1	13:EM:88:ILE:HB	1.69	0.57
1:FA:581:ILE:HD11	1:FA:605:VAL:HG21	1.86	0.57
1:FA:874:GLU:O	1:FA:878:ARG:HB2	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:966:LEU:HD12	1:FA:967:PRO:HD2	1.87	0.57
1:FA:1326:GLU:OE1	1:FA:1454:HIS:HB3	2.04	0.57
2:FB:655:TYR:HD1	2:FB:688:HIS:NE2	2.01	0.57
3:FC:216:HIS:CE1	3:FC:218:LYS:HB3	2.40	0.57
12:FL:32:ALA:HB2	12:FL:57:LEU:HG	1.84	0.57
1:AA:363:PRO:HB3	2:AB:1187:SER:OG	2.05	0.57
2:AB:72:VAL:HG11	2:AB:94:LYS:HE3	1.86	0.57
2:AB:99:VAL:HG11	2:AB:139:LEU:HD13	1.87	0.57
7:AG:93:ASP:HB2	7:AG:104:LEU:HD12	1.85	0.57
1:BA:422:ARG:HD3	7:BO:272:ILE:HB	1.85	0.57
1:BA:512:THR:O	1:BA:516:ILE:HB	2.05	0.57
1:BA:545:SER:O	1:BA:545:SER:OG	2.19	0.57
1:BA:1105:ARG:NH1	1:BA:1138:GLU:OE1	2.35	0.57
2:BB:273:VAL:HA	2:BB:276:ILE:HD13	1.87	0.57
2:BB:703:LEU:HD23	2:BB:754:ALA:HB3	1.85	0.57
2:BB:887:LEU:HB3	2:BB:901:VAL:HG13	1.87	0.57
13:BM:113:ILE:HG22	13:BM:113:ILE:O	2.04	0.57
1:CA:530:TRP:HZ2	1:CA:582:LYS:HA	1.70	0.57
1:CA:713:VAL:HB	1:CA:738:ASN:HD21	1.70	0.57
1:CA:1092:GLU:O	1:CA:1094:ALA:N	2.38	0.57
1:CA:1484:LEU:HG	2:CB:308:LEU:HD11	1.86	0.57
2:CB:117:VAL:HG12	2:CB:118:GLU:H	1.70	0.57
7:CG:250:ILE:HG22	7:CG:251:SER:H	1.68	0.57
7:DG:89:ILE:HA	7:DG:118:CYS:SG	2.43	0.57
12:DL:63:ARG:HG2	12:DL:64:LEU:N	2.16	0.57
1:EA:596:HIS:H	1:EA:596:HIS:HD2	1.49	0.57
1:EA:1151:ASN:HB3	1:EA:1154:LEU:HD12	1.86	0.57
1:EA:1248:ASP:O	1:EA:1251:ALA:HB3	2.04	0.57
7:EG:139:ILE:HD12	7:EG:140:GLN:H	1.68	0.57
1:FA:1019:LEU:HD21	1:FA:1194:GLY:HA2	1.86	0.57
1:FA:1060:GLU:O	1:FA:1063:MET:N	2.35	0.57
2:FB:825:PHE:HE2	2:FB:899:GLN:HA	1.70	0.57
7:FG:29:ASP:O	7:FG:31:LYS:N	2.37	0.57
13:FM:16:GLN:HG3	13:FM:17:ASP:H	1.70	0.57
1:AA:113:VAL:HG22	1:AA:182:LYS:NZ	2.19	0.57
1:AA:425:ASN:OD1	7:AO:272:ILE:HG23	2.05	0.57
1:AA:596:HIS:H	1:AA:596:HIS:HD2	1.52	0.57
5:AE:70:SER:OG	5:AE:71:LYS:N	2.37	0.57
1:BA:1003:ARG:CZ	2:BB:520:LEU:HD22	2.34	0.57
5:BE:98:ILE:O	5:BE:102:GLU:HB2	2.04	0.57
14:BN:110:LEU:HB3	14:BN:119:LEU:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:74:GLY:HA3	1:CA:364:PRO:HB3	1.85	0.57
1:CA:1136:VAL:HG11	1:CA:1140:PHE:HD2	1.69	0.57
1:CA:1539:ASP:O	5:CE:147:HIS:NE2	2.38	0.57
2:CB:825:PHE:HE2	2:CB:899:GLN:HA	1.68	0.57
2:CB:1195:ARG:HH21	2:CB:1197:ARG:HD2	1.68	0.57
7:CG:61:VAL:HG11	7:CG:87:LEU:HD21	1.87	0.57
9:CI:72:LYS:HB2	9:CI:73:LYS:HE3	1.86	0.57
10:CJ:2:ILE:HG12	10:CJ:3:VAL:HG23	1.85	0.57
2:DB:940:GLU:HB2	2:DB:1012:PRO:HB2	1.86	0.57
1:EA:470:HIS:O	2:EB:1058:GLN:NE2	2.36	0.57
2:EB:190:ILE:HG12	2:EB:191:GLY:N	2.19	0.57
2:EB:234:ILE:HB	2:EB:250:LEU:HB2	1.86	0.57
2:EB:397:THR:HA	2:EB:400:GLN:OE1	2.05	0.57
3:EC:80:ALA:HA	3:EC:208:CYS:HB3	1.85	0.57
11:EK:118:GLN:O	11:EK:121:LEU:N	2.37	0.57
1:FA:785:GLN:O	1:FA:794:VAL:HG22	2.05	0.57
1:FA:1440:ASN:OD1	1:FA:1440:ASN:N	2.37	0.57
2:FB:105:ALA:O	2:FB:135:GLY:HA3	2.04	0.57
2:FB:1047:ARG:NH2	2:FB:1059:PRO:HB3	2.19	0.57
2:AB:718:GLN:CD	2:AB:920:ARG:HA	2.24	0.57
3:AC:42:VAL:HG22	3:AC:56:LEU:HD22	1.87	0.57
1:BA:618:TYR:HB3	1:BA:670:ILE:CD1	2.34	0.57
1:BA:759:TYR:CE1	1:BA:913:PRO:HG3	2.39	0.57
2:BB:474:SER:O	2:BB:476:LEU:N	2.38	0.57
7:BG:57:PRO:HG2	7:BG:58:LEU:H	1.68	0.57
8:BH:38:LEU:HD11	8:BH:123:MET:HG3	1.87	0.57
1:CA:669:LEU:HD12	1:CA:786:TYR:CD1	2.39	0.57
2:CB:845:LEU:HD12	12:CL:58:LYS:HD2	1.85	0.57
2:CB:986:PHE:CD1	14:CN:160:VAL:HG21	2.40	0.57
5:DE:55:ARG:NH2	5:DE:113:GLN:OE1	2.38	0.57
6:DF:101:ILE:HG21	6:DF:120:ILE:HG21	1.85	0.57
1:EA:1016:SER:CB	1:EA:1019:LEU:HD22	2.35	0.57
1:EA:1136:VAL:HG11	1:EA:1140:PHE:HD2	1.69	0.57
1:EA:1474:LEU:HD13	1:EA:1475:GLU:N	2.19	0.57
2:EB:572:PRO:O	2:EB:576:THR:OG1	2.12	0.57
3:EC:314:PHE:O	3:EC:317:SER:OG	2.17	0.57
7:EG:149:ILE:HG22	7:EG:150:HIS:CD2	2.34	0.57
10:EJ:36:LEU:HD11	10:EJ:51:LEU:HB2	1.86	0.57
1:FA:719:ILE:HG12	8:FH:97:MET:HG2	1.87	0.57
1:FA:1485:MET:HA	1:FA:1488:ILE:HD12	1.86	0.57
2:FB:97:VAL:HG13	2:FB:141:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:29:ASP:C	7:FG:31:LYS:H	2.07	0.57
1:AA:1136:VAL:HG22	1:AA:1174:TYR:CE1	2.39	0.57
1:AA:1294:MET:HG2	1:AA:1296:PHE:CE1	2.40	0.57
1:AA:1456:PHE:CB	1:AA:1474:LEU:HD11	2.33	0.57
2:AB:693:PRO:O	2:AB:696:ILE:HG13	2.04	0.57
2:AB:775:VAL:H	2:AB:1028:VAL:HG12	1.69	0.57
10:AJ:45:CYS:O	10:AJ:48:ARG:HB3	2.05	0.57
1:BA:76:GLN:NE2	2:BB:1111:LEU:HD12	2.19	0.57
1:BA:519:LEU:O	1:BA:523:VAL:HG23	2.03	0.57
1:BA:585:ASP:OD1	1:BA:644:ARG:NH1	2.38	0.57
1:BA:641:GLU:HB2	6:BF:99:LEU:HD22	1.87	0.57
1:BA:966:LEU:HD23	1:BA:969:PHE:CD2	2.40	0.57
1:BA:1512:PRO:HB3	1:BA:1517:ARG:HA	1.86	0.57
1:BA:1553:TYR:HD1	5:BE:144:ILE:HB	1.70	0.57
2:BB:229:TYR:HA	2:BB:253:LEU:HD22	1.86	0.57
1:CA:1326:GLU:OE1	1:CA:1454:HIS:HB3	2.05	0.57
3:CC:102:GLY:HA3	12:CL:69:ALA:CB	2.35	0.57
14:CN:75:GLU:H	14:CN:91:ASP:CB	2.17	0.57
1:DA:74:GLY:HA3	1:DA:364:PRO:HB3	1.87	0.57
1:DA:1173:LYS:O	1:DA:1177:SER:OG	2.13	0.57
2:DB:558:VAL:HA	2:DB:561:ILE:HG13	1.87	0.57
3:DC:230:LEU:HD12	3:DC:231:PRO:HD2	1.87	0.57
8:DH:7:ASP:HB2	8:DH:57:VAL:O	2.05	0.57
8:DH:13:SER:N	8:DH:27:GLU:O	2.36	0.57
1:EA:874:GLU:O	1:EA:878:ARG:HB2	2.05	0.57
1:EA:1557:ALA:HB2	5:EE:150:VAL:HG22	1.86	0.57
2:EB:38:LEU:O	2:EB:41:ALA:N	2.24	0.57
2:EB:170:CYS:SG	2:EB:172:LEU:N	2.77	0.57
2:EB:782:ASP:HB3	2:EB:788:ILE:HG12	1.86	0.57
4:ED:22:ILE:HG23	7:EG:44:ALA:O	2.05	0.57
4:ED:31:VAL:HG23	7:EG:38:ILE:HB	1.87	0.57
1:FA:480:ALA:HB1	1:FA:501:PHE:CZ	2.39	0.57
1:FA:1162:ASN:H	1:FA:1165:LYS:HD2	1.69	0.57
2:FB:532:HIS:ND1	2:FB:700:LEU:HD13	2.19	0.57
2:FB:848:ILE:HG13	12:FL:59:ALA:O	2.04	0.57
3:FC:100:ARG:HH12	3:FC:193:LEU:C	2.07	0.57
3:FC:218:LYS:NZ	12:FL:69:ALA:HB3	2.18	0.57
8:FH:38:LEU:HD13	8:FH:125:LEU:HB2	1.85	0.57
1:AA:67:LEU:HD13	1:AA:71:PHE:HB3	1.86	0.57
2:AB:731:VAL:HG11	10:AJ:59:LYS:HB3	1.87	0.57
2:AB:757:TYR:CZ	2:AB:762:MET:HB3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:40:ARG:HD3	7:AG:123:TYR:HE1	1.70	0.57
8:AH:63:LEU:HB3	8:AH:89:LEU:HB3	1.86	0.57
12:BL:34:CYS:SG	12:BL:36:SER:OG	2.63	0.57
1:CA:477:ASN:OD1	2:CB:1049:THR:HG23	2.04	0.57
2:CB:59:GLY:O	2:CB:62:ASN:N	2.38	0.57
2:CB:625:GLU:HB2	2:CB:643:PHE:O	2.05	0.57
5:CE:64:PRO:HB3	5:CE:68:SER:HB2	1.87	0.57
1:DA:482:SER:HB2	2:DB:1044:PHE:HB3	1.87	0.57
1:DA:1247:SER:OG	1:DA:1249:GLU:N	2.38	0.57
2:DB:52:LEU:HD22	2:DB:61:LEU:HD21	1.86	0.57
2:DB:886:ASN:N	2:DB:902:SER:O	2.29	0.57
1:EA:203:THR:OG1	1:EA:204:GLU:N	2.37	0.57
1:EA:759:TYR:CE1	1:EA:913:PRO:HG3	2.39	0.57
2:EB:251:HIS:HB2	2:EB:259:THR:OG1	2.04	0.57
2:EB:575:HIS:NE2	13:EM:76:TYR:OH	2.38	0.57
5:EE:137:GLU:C	5:EE:139:ALA:H	2.08	0.57
14:EN:109:LEU:O	14:EN:110:LEU:HD23	2.05	0.57
1:FA:211:THR:HB	5:FE:173:SER:HB2	1.87	0.57
1:FA:422:ARG:HD2	7:FO:270:LEU:O	2.05	0.57
1:FA:478:TYR:N	2:FB:1047:ARG:O	2.37	0.57
1:FA:1454:HIS:HB2	1:FA:1457:ILE:HG13	1.86	0.57
2:FB:72:VAL:HG13	2:FB:95:LEU:O	2.05	0.57
2:FB:703:LEU:HD23	2:FB:754:ALA:HB3	1.87	0.57
9:FI:101:LEU:O	9:FI:106:GLU:HG2	2.05	0.57
13:FM:23:VAL:HG13	14:FN:108:THR:O	2.05	0.57
1:AA:976:ALA:HB1	1:AA:981:TYR:HB3	1.85	0.56
1:AA:1257:SER:HA	1:AA:1499:ARG:NH2	2.20	0.56
1:AA:1272:VAL:HG12	1:AA:1273:THR:H	1.69	0.56
2:AB:72:VAL:HG22	2:AB:96:SER:HA	1.86	0.56
2:AB:251:HIS:HB2	2:AB:259:THR:OG1	2.04	0.56
2:AB:470:LEU:HD22	2:AB:484:TYR:CE1	2.40	0.56
3:AC:195:LYS:HB2	10:AJ:57:ILE:HD11	1.87	0.56
11:AK:60:SER:OG	11:AK:104:ARG:NH2	2.31	0.56
1:BA:484:ILE:HG23	1:BA:631:ASP:O	2.05	0.56
1:BA:699:CYS:O	1:BA:815:ARG:NH1	2.37	0.56
2:BB:178:TYR:O	2:BB:182:GLN:HG2	2.05	0.56
7:BG:45:LEU:CD1	7:BG:118:CYS:HB2	2.35	0.56
8:BH:106:GLU:HG2	8:BH:112:ILE:HD11	1.87	0.56
10:BJ:7:CYS:SG	10:BJ:8:PHE:N	2.78	0.56
11:BK:125:MET:HA	11:BK:128:CYS:SG	2.44	0.56
13:BM:40:LEU:HD12	13:BM:41:TYR:H	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:537:GLN:HE21	1:CA:541:GLY:HA2	1.70	0.56
1:CA:947:LEU:HB2	1:CA:982:VAL:HG21	1.87	0.56
1:CA:1458:THR:HG21	1:CA:1475:GLU:HG2	1.87	0.56
1:CA:1512:PRO:HB3	1:CA:1517:ARG:HA	1.87	0.56
2:CB:211:ARG:NH2	2:CB:243:GLN:OE1	2.33	0.56
5:CE:19:VAL:O	5:CE:23:VAL:HG23	2.05	0.56
5:CE:87:SER:HA	5:CE:115:ASN:HB3	1.87	0.56
1:DA:1531:ASP:OD2	5:DE:11:ARG:NH1	2.38	0.56
2:DB:903:ILE:HD13	2:DB:905:TYR:CE1	2.40	0.56
5:DE:87:SER:HA	5:DE:115:ASN:HB3	1.87	0.56
1:EA:581:ILE:HD11	1:EA:605:VAL:HG21	1.87	0.56
1:EA:586:VAL:HG13	1:EA:638:PRO:HG2	1.86	0.56
1:EA:693:GLN:OE1	11:EK:88:PHE:HA	2.05	0.56
1:EA:1272:VAL:O	1:EA:1273:THR:OG1	2.22	0.56
2:EB:73:ILE:HG13	2:EB:429:ARG:NH2	2.18	0.56
2:EB:1201:GLU:HG3	2:EB:1203:LYS:H	1.70	0.56
6:EF:99:LEU:HB3	7:EG:112:PRO:HD3	1.87	0.56
1:FA:1092:GLU:O	1:FA:1094:ALA:N	2.37	0.56
2:FB:228:SER:HB2	2:FB:253:LEU:HD13	1.87	0.56
2:FB:629:VAL:HG11	2:FB:636:GLN:HG2	1.86	0.56
2:FB:934:ILE:HG21	3:FC:73:SER:HB3	1.86	0.56
7:FG:33:GLY:HA3	7:FG:230:ARG:NH1	2.20	0.56
1:AA:203:THR:OG1	1:AA:204:GLU:N	2.37	0.56
1:AA:1003:ARG:CZ	2:AB:520:LEU:HD22	2.35	0.56
1:AA:1241:PRO:HG3	1:AA:1540:GLY:HA3	1.85	0.56
6:AF:97:ARG:HG2	6:AF:130:ILE:HD13	1.87	0.56
2:BB:72:VAL:HG11	2:BB:94:LYS:HE3	1.88	0.56
2:BB:228:SER:HB2	2:BB:253:LEU:HD13	1.86	0.56
2:BB:782:ASP:HB3	2:BB:788:ILE:HG12	1.87	0.56
2:BB:1083:GLY:HA3	6:BF:88:TYR:CE1	2.39	0.56
5:BE:152:LYS:HE3	5:BE:154:ILE:HD11	1.87	0.56
8:BH:116:TYR:HB2	8:BH:123:MET:SD	2.45	0.56
1:CA:470:HIS:O	2:CB:1058:GLN:NE2	2.39	0.56
1:CA:586:VAL:HG13	1:CA:638:PRO:HG2	1.86	0.56
1:CA:1526:PHE:O	1:CA:1529:MET:N	2.37	0.56
2:CB:18:THR:HA	2:CB:21:ARG:HH21	1.70	0.56
14:CN:93:THR:C	14:CN:99:LEU:HG	2.26	0.56
1:DA:1027:LEU:HD21	1:DA:1588:MET:HG2	1.86	0.56
1:DA:1117:SER:O	1:DA:1117:SER:OG	2.21	0.56
5:DE:156:LEU:HD21	5:DE:197:LYS:HB2	1.87	0.56
1:EA:1298:ASP:OD1	1:EA:1298:ASP:N	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1324:LEU:HD22	1:EA:1492:ILE:HG13	1.87	0.56
2:EB:311:ARG:HH22	9:EI:8:ILE:CD1	2.17	0.56
2:EB:687:THR:OG1	2:EB:688:HIS:ND1	2.37	0.56
3:EC:45:SER:OG	3:EC:271:ARG:NH2	2.29	0.56
7:EG:29:ASP:C	7:EG:31:LYS:H	2.08	0.56
7:EG:29:ASP:O	7:EG:31:LYS:N	2.38	0.56
9:EI:2:SER:HA	9:EI:9:PHE:O	2.05	0.56
2:FB:104:ILE:HB	2:FB:169:ARG:HG3	1.85	0.56
2:FB:939:SER:OG	2:FB:943:ILE:N	2.38	0.56
5:FE:76:GLY:H	5:FE:106:GLN:HG2	1.68	0.56
10:FJ:31:ASP:OD1	10:FJ:34:THR:HB	2.04	0.56
1:AA:7:VAL:HG12	1:AA:9:SER:H	1.71	0.56
1:AA:758:GLU:O	1:AA:760:TRP:N	2.38	0.56
1:AA:1218:GLY:O	1:AA:1222:LEU:HD22	2.05	0.56
1:AA:1270:VAL:HB	9:AI:51:THR:HG21	1.86	0.56
3:AC:325:ALA:O	3:AC:328:LEU:N	2.37	0.56
7:AG:33:GLY:HA3	7:AG:230:ARG:NH1	2.20	0.56
13:AM:40:LEU:HD12	13:AM:41:TYR:H	1.70	0.56
1:BA:875:LEU:O	1:BA:879:LEU:HG	2.04	0.56
3:BC:329:LYS:CE	11:BK:122:LYS:HE2	2.35	0.56
7:BG:72:LYS:O	7:BG:81:VAL:HG23	2.05	0.56
1:CA:491:GLU:OE1	1:CA:815:ARG:NH2	2.21	0.56
1:CA:507:TYR:HB3	1:CA:579:ARG:HH12	1.70	0.56
1:CA:611:GLU:CD	1:CA:615:ARG:HD2	2.25	0.56
1:CA:699:CYS:O	1:CA:815:ARG:NH1	2.38	0.56
1:CA:1262:LEU:HD12	1:CA:1264:SER:HG	1.69	0.56
2:CB:18:THR:HA	2:CB:21:ARG:NH2	2.20	0.56
2:CB:570:VAL:HG13	2:CB:596:VAL:HG13	1.86	0.56
3:CC:77:SER:O	3:CC:210:LEU:HA	2.06	0.56
5:CE:178:ILE:HG22	5:CE:212:ARG:HB3	1.87	0.56
1:DA:550:SER:O	1:DA:553:GLN:HG3	2.06	0.56
1:DA:836:THR:OG1	1:DA:837:ALA:N	2.38	0.56
1:DA:1151:ASN:HB3	1:DA:1154:LEU:HD12	1.86	0.56
1:DA:1264:SER:HB3	9:DI:56:PHE:CD1	2.40	0.56
2:DB:75:ASP:OD1	2:DB:76:GLY:N	2.26	0.56
2:DB:412:ILE:O	2:DB:416:LYS:HG2	2.04	0.56
2:DB:772:VAL:HG12	2:DB:946:ASP:H	1.71	0.56
2:DB:825:PHE:HE2	2:DB:899:GLN:HA	1.70	0.56
2:DB:903:ILE:HD12	2:DB:903:ILE:N	2.20	0.56
5:DE:127:ILE:HD11	5:DE:132:ILE:HD11	1.88	0.56
9:DI:13:CYS:SG	9:DI:14:GLY:N	2.76	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:DN:97:SER:HA	14:DN:104:LEU:O	2.04	0.56
1:EA:91:PHE:CD2	1:EA:249:THR:HG22	2.39	0.56
1:EA:102:CYS:HB2	1:EA:109:ARG:HG2	1.86	0.56
1:EA:713:VAL:HB	1:EA:738:ASN:HD21	1.71	0.56
1:EA:1028:GLU:OE1	1:EA:1638:SER:HB2	2.05	0.56
1:EA:1458:THR:HG21	1:EA:1475:GLU:HG2	1.88	0.56
3:EC:233:ILE:HD11	3:EC:291:LEU:HG	1.86	0.56
4:ED:47:LYS:HD3	4:ED:82:LEU:HD13	1.86	0.56
11:EK:60:SER:OG	11:EK:104:ARG:NH2	2.36	0.56
13:EM:56:GLU:HB2	13:EM:61:GLU:HA	1.87	0.56
1:FA:976:ALA:HB1	1:FA:981:TYR:HB3	1.87	0.56
1:FA:1276:THR:HG23	1:FA:1288:ARG:NH1	2.17	0.56
1:FA:1447:GLN:NE2	1:FA:1459:LYS:HG2	2.20	0.56
1:FA:1557:ALA:HB2	5:FE:150:VAL:HG22	1.86	0.56
2:FB:848:ILE:HG13	12:FL:60:ARG:HA	1.86	0.56
2:FB:986:PHE:CD2	2:FB:992:PRO:HG3	2.41	0.56
3:FC:85:PHE:HA	3:FC:204:LEU:HD13	1.88	0.56
6:FF:101:ILE:HD13	6:FF:120:ILE:HG22	1.87	0.56
9:FI:2:SER:HA	9:FI:9:PHE:O	2.05	0.56
1:AA:323:ILE:O	1:AA:327:VAL:HG23	2.06	0.56
2:AB:98:SER:HA	2:AB:421:LEU:HD21	1.86	0.56
2:AB:886:ASN:O	2:AB:902:SER:N	2.28	0.56
1:BA:250:LYS:HD3	1:BA:428:VAL:HG22	1.87	0.56
1:BA:471:MET:HA	1:BA:474:LYS:HE3	1.86	0.56
1:BA:1298:ASP:OD1	1:BA:1298:ASP:N	2.39	0.56
2:CB:380:LYS:HG3	2:CB:637:TYR:CD2	2.40	0.56
2:CB:501:ARG:HG3	2:CB:699:ILE:HD12	1.88	0.56
3:CC:83:VAL:HG22	3:CC:206:ALA:HB1	1.88	0.56
11:CK:112:THR:N	11:CK:115:ASP:OD2	2.36	0.56
2:DB:212:ASN:OD1	2:DB:239:VAL:HG13	2.06	0.56
7:DG:24:VAL:O	7:DG:128:GLN:NE2	2.37	0.56
11:DK:75:ALA:O	11:DK:79:VAL:HG23	2.05	0.56
2:EB:96:SER:OG	2:EB:144:SER:O	2.22	0.56
2:EB:1026:ILE:HD11	2:EB:1028:VAL:HG13	1.86	0.56
14:EN:90:MET:O	14:EN:137:PHE:HB3	2.05	0.56
1:FA:513:ALA:O	1:FA:516:ILE:HG22	2.06	0.56
1:FA:928:MET:HG3	1:FA:933:ALA:HB3	1.88	0.56
2:FB:311:ARG:HH22	9:FI:8:ILE:HD12	1.70	0.56
2:FB:843:ASP:HB2	2:FB:845:LEU:HD21	1.86	0.56
2:FB:960:ILE:O	2:FB:963:PHE:HB2	2.05	0.56
1:AA:511:VAL:HG22	1:AA:519:LEU:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:519:LEU:O	1:AA:523:VAL:HG23	2.06	0.56
1:BA:572:THR:HA	7:BG:52:MET:SD	2.45	0.56
1:BA:964:LYS:NZ	1:BA:967:PRO:HA	2.21	0.56
1:BA:1508:VAL:O	1:BA:1510:PRO:HD3	2.06	0.56
1:BA:1526:PHE:O	1:BA:1529:MET:N	2.39	0.56
2:BB:104:ILE:HA	2:BB:137:LEU:HD22	1.86	0.56
2:BB:1186:ASP:O	2:BB:1190:SER:OG	2.24	0.56
3:BC:90:SER:OG	3:BC:91:VAL:N	2.37	0.56
3:BC:228:ARG:NH1	14:BN:173:THR:H	2.04	0.56
9:BI:2:SER:HB2	9:BI:11:LEU:HD21	1.88	0.56
10:BJ:18:TRP:O	10:BJ:22:LEU:HG	2.06	0.56
7:BO:276:LYS:C	7:BO:278:ILE:H	2.09	0.56
1:CA:188:TYR:O	1:CA:191:MET:N	2.39	0.56
1:CA:189:VAL:O	1:CA:193:ILE:HG13	2.06	0.56
9:CI:23:VAL:HB	9:CI:39:LYS:HE3	1.88	0.56
12:CL:38:LEU:HD12	12:CL:49:LYS:HD3	1.88	0.56
1:DA:545:SER:O	1:DA:545:SER:OG	2.23	0.56
1:DA:1276:THR:O	9:DI:44:ASN:HB3	2.05	0.56
1:DA:1585:ILE:O	1:DA:1588:MET:HB3	2.04	0.56
2:DB:190:ILE:HG12	2:DB:191:GLY:N	2.20	0.56
2:EB:532:HIS:ND1	2:EB:700:LEU:HD13	2.21	0.56
1:FA:947:LEU:HB2	1:FA:982:VAL:HG11	1.87	0.56
2:FB:548:LYS:HA	2:FB:550:ARG:NH2	2.21	0.56
2:FB:903:ILE:HD13	2:FB:905:TYR:CE1	2.41	0.56
4:FD:47:LYS:HD3	4:FD:82:LEU:HD13	1.88	0.56
9:FI:38:PRO:HG2	9:FI:41:GLN:HB2	1.87	0.56
1:AA:440:SER:N	1:AA:458:GLN:HE22	2.04	0.56
1:AA:513:ALA:O	1:AA:516:ILE:HG22	2.05	0.56
1:AA:1324:LEU:HD22	1:AA:1492:ILE:HG13	1.87	0.56
2:AB:212:ASN:ND2	2:AB:239:VAL:HG22	2.18	0.56
4:AD:33:THR:O	4:AD:36:VAL:HB	2.05	0.56
11:AK:80:ILE:HD13	11:AK:105:ILE:HD11	1.87	0.56
1:BA:927:ALA:O	1:BA:931:SER:OG	2.21	0.56
2:BB:301:PHE:HD1	2:BB:302:LEU:HD23	1.69	0.56
2:BB:1138:ALA:O	2:BB:1141:LEU:HG	2.06	0.56
7:BG:139:ILE:HD12	7:BG:140:GLN:H	1.69	0.56
1:CA:693:GLN:NE2	11:CK:87:GLU:O	2.31	0.56
1:CA:785:GLN:O	1:CA:794:VAL:HG22	2.05	0.56
1:CA:1007:ILE:HG22	2:CB:515:THR:HG22	1.87	0.56
2:CB:548:LYS:HA	2:CB:550:ARG:NH2	2.20	0.56
2:CB:849:GLY:H	2:CB:882:ILE:HB	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:233:ILE:HD11	3:CC:291:LEU:HG	1.87	0.56
1:DA:379:GLU:HA	7:DO:292:HIS:CD2	2.40	0.56
2:DB:392:ASP:HB3	2:DB:399:HIS:CE1	2.41	0.56
2:DB:995:TYR:CE1	14:DN:162:LYS:HG3	2.40	0.56
7:DG:26:ASN:ND2	7:DG:37:CYS:SG	2.79	0.56
7:DG:111:THR:HG1	7:DG:113:PHE:HD1	1.53	0.56
8:DH:30:SER:HG	8:DH:33:GLN:H	1.53	0.56
13:DM:15:VAL:HA	13:DM:90:LEU:HB2	1.86	0.56
2:EB:526:GLY:HA2	2:EB:696:ILE:HG22	1.86	0.56
7:EG:93:ASP:HB2	7:EG:104:LEU:HD12	1.88	0.56
13:EM:16:GLN:HG3	13:EM:17:ASP:H	1.70	0.56
13:EM:112:LYS:HG3	13:EM:113:ILE:HD12	1.88	0.56
1:FA:1085:LEU:HD13	6:FF:84:TYR:OH	2.04	0.56
2:FB:301:PHE:HD1	2:FB:302:LEU:HD23	1.71	0.56
2:FB:661:GLU:HG3	2:FB:662:ASP:N	2.20	0.56
6:FF:101:ILE:HG21	6:FF:120:ILE:HG21	1.86	0.56
2:AB:526:GLY:HA2	2:AB:696:ILE:HG22	1.87	0.56
2:AB:532:HIS:CD2	2:AB:700:LEU:HD22	2.41	0.56
2:AB:849:GLY:H	2:AB:882:ILE:HB	1.71	0.56
13:AM:113:ILE:O	13:AM:113:ILE:HG22	2.06	0.56
1:BA:491:GLU:OE1	1:BA:815:ARG:NH2	2.20	0.56
1:BA:1146:SER:OG	1:BA:1147:PHE:N	2.39	0.56
2:BB:929:ARG:NH2	11:BK:97:SER:OG	2.39	0.56
2:BB:1060:VAL:HG22	2:BB:1061:LYS:N	2.21	0.56
6:BF:147:SER:HB3	6:BF:150:GLU:HG2	1.88	0.56
13:BM:59:ARG:HD2	13:BM:60:LEU:HD21	1.88	0.56
1:CA:584:ARG:HD3	6:CF:116:ASP:HB2	1.87	0.56
1:CA:718:THR:OG1	1:CA:730:GLN:OE1	2.24	0.56
1:CA:1245:ASP:OD2	1:CA:1245:ASP:N	2.38	0.56
2:CB:782:ASP:HB3	2:CB:788:ILE:HG12	1.88	0.56
1:DA:1094:ALA:HB1	1:DA:1135:SER:HB2	1.88	0.56
2:DB:66:LYS:C	2:DB:68:ILE:H	2.09	0.56
2:DB:474:SER:C	2:DB:476:LEU:H	2.09	0.56
2:DB:609:ARG:O	2:DB:612:LYS:HB3	2.05	0.56
14:DN:38:PHE:HE2	14:DN:40:LEU:HD13	1.69	0.56
1:EA:993:GLN:CD	2:EB:676:VAL:HG21	2.26	0.56
1:EA:1216:THR:OG1	1:EA:1234:LYS:HB2	2.06	0.56
2:EB:416:LYS:HD2	2:EB:460:LYS:HD2	1.88	0.56
7:EG:57:PRO:HG2	7:EG:58:LEU:H	1.70	0.56
1:FA:697:TYR:HE1	1:FA:702:PRO:HD3	1.71	0.56
2:FB:683:ASN:OD1	14:FN:154:ARG:NH2	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:1024:ALA:O	2:FB:1026:ILE:N	2.38	0.56
14:FN:71:PRO:HB2	14:FN:89:ILE:HD12	1.86	0.56
1:AA:1094:ALA:HB2	1:AA:1132:TYR:HB3	1.88	0.56
1:AA:1272:VAL:O	1:AA:1273:THR:OG1	2.21	0.56
1:AA:1526:PHE:O	1:AA:1529:MET:N	2.38	0.56
2:AB:913:ILE:HD13	2:AB:930:LYS:HG3	1.87	0.56
8:AH:106:GLU:HG2	8:AH:112:ILE:HD11	1.87	0.56
1:BA:1019:LEU:HD21	1:BA:1194:GLY:CA	2.35	0.56
1:BA:1027:LEU:HD21	1:BA:1588:MET:HG2	1.87	0.56
2:BB:94:LYS:O	2:BB:146:ASN:N	2.19	0.56
5:BE:157:SER:OG	5:BE:160:GLU:HG3	2.06	0.56
1:CA:720:PHE:CZ	8:CH:141:TYR:HE2	2.24	0.56
1:CA:896:THR:O	1:CA:900:VAL:HG13	2.06	0.56
2:CB:693:PRO:O	2:CB:696:ILE:HG13	2.06	0.56
13:CM:59:ARG:HD2	13:CM:60:LEU:HD21	1.87	0.56
2:DB:887:LEU:O	2:DB:888:ILE:HD12	2.06	0.56
1:EA:697:TYR:HE1	1:EA:702:PRO:HD3	1.70	0.56
1:EA:1545:ASP:CG	1:EA:1546:VAL:N	2.59	0.56
2:EB:1186:ASP:O	2:EB:1190:SER:OG	2.24	0.56
7:EG:88:LYS:O	7:EG:118:CYS:HB3	2.05	0.56
8:EH:38:LEU:HD12	8:EH:124:ARG:O	2.05	0.56
2:FB:567:SER:HB2	14:FN:59:PRO:HB3	1.88	0.56
3:FC:289:VAL:HG12	3:FC:290:LYS:H	1.71	0.56
3:FC:325:ALA:O	3:FC:328:LEU:N	2.37	0.56
12:FL:30:ILE:O	12:FL:57:LEU:HD12	2.06	0.56
13:FM:80:LEU:HD13	14:FN:39:PRO:HG2	1.87	0.56
13:FM:81:PHE:HB2	13:FM:88:ILE:HD13	1.86	0.56
1:AA:624:TYR:O	1:AA:625:ASN:HB3	2.05	0.56
1:AA:1601:GLN:O	1:AA:1603:MET:N	2.33	0.56
3:AC:83:VAL:HG12	3:AC:204:LEU:HD12	1.88	0.56
3:AC:303:GLU:OE1	10:AJ:43:ARG:NH2	2.39	0.56
10:AJ:2:ILE:HD12	10:AJ:57:ILE:HD13	1.87	0.56
1:BA:1175:MET:O	1:BA:1178:LEU:HG	2.06	0.56
1:CA:426:ALA:HA	7:CO:273:VAL:HG21	1.86	0.56
7:CG:26:ASN:ND2	7:CG:37:CYS:SG	2.79	0.56
9:CI:23:VAL:HG21	9:CI:28:VAL:HG13	1.88	0.56
11:CK:49:LEU:HD12	11:CK:62:SER:O	2.06	0.56
13:CM:112:LYS:HG3	13:CM:113:ILE:HD12	1.88	0.56
1:DA:475:ARG:NH1	2:DB:1068:GLY:O	2.39	0.56
1:DA:1271:ILE:HG23	9:DI:50:THR:HG22	1.87	0.56
1:DA:1335:LYS:HD2	1:DA:1338:ARG:NH2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1620:GLN:O	1:DA:1623:THR:N	2.38	0.56
2:DB:380:LYS:HE3	2:DB:637:TYR:HB3	1.87	0.56
2:DB:846:PRO:HG3	2:DB:858:ILE:O	2.06	0.56
9:DI:73:LYS:HA	9:DI:76:LEU:HD12	1.87	0.56
14:DN:69:SER:CB	8:FH:75:ALA:HB2	2.35	0.56
1:EA:1585:ILE:O	1:EA:1589:MET:HG3	2.06	0.56
2:EB:59:GLY:O	2:EB:62:ASN:N	2.39	0.56
10:EJ:43:ARG:NH1	10:EJ:46:CYS:SG	2.79	0.56
7:EO:297:LEU:HD22	7:EO:297:LEU:H	1.71	0.56
1:FA:591:ARG:HB2	1:FA:633:MET:HG2	1.88	0.56
1:FA:885:ASP:O	1:FA:889:SER:HB3	2.06	0.56
1:FA:960:MET:O	1:FA:963:GLY:N	2.35	0.56
2:FB:98:SER:HA	2:FB:421:LEU:HD21	1.87	0.56
14:FN:107:MET:N	14:FN:107:MET:SD	2.78	0.56
7:FO:297:LEU:HD13	7:FO:310:TYR:HD2	1.69	0.56
2:AB:850:THR:N	2:AB:882:ILE:HG13	2.18	0.56
7:AG:159:LYS:HZ1	7:BO:278:ILE:HB	1.70	0.56
1:BA:93:GLN:HB2	1:BA:355:PHE:HE2	1.71	0.56
1:BA:850:SER:OG	1:BA:851:VAL:N	2.37	0.56
8:BH:35:GLN:O	8:BH:127:GLY:HA2	2.05	0.56
9:BI:10:CYS:HB3	9:BI:13:CYS:SG	2.45	0.56
13:BM:12:ILE:CG2	14:BN:68:LYS:HA	2.36	0.56
7:BO:273:VAL:O	7:BO:277:LYS:HB2	2.05	0.56
2:CB:851:TYR:HD1	2:CB:881:TYR:CE1	2.24	0.56
5:CE:137:GLU:C	5:CE:139:ALA:H	2.08	0.56
2:DB:501:ARG:HG3	2:DB:699:ILE:HD12	1.87	0.56
2:DB:774:ALA:HB3	2:DB:948:ILE:HA	1.88	0.56
3:DC:90:SER:OG	3:DC:91:VAL:N	2.39	0.56
11:DK:86:VAL:HG13	11:DK:105:ILE:HG23	1.87	0.56
1:EA:875:LEU:O	1:EA:879:LEU:HG	2.06	0.56
10:EJ:43:ARG:O	10:EJ:47:ARG:HG3	2.06	0.56
1:FA:456:VAL:HG11	2:FB:1192:MET:SD	2.46	0.56
2:FB:501:ARG:NH2	2:FB:546:ALA:O	2.39	0.56
2:FB:683:ASN:HA	14:FN:150:TYR:CE1	2.41	0.56
2:FB:1026:ILE:HD11	2:FB:1028:VAL:HG13	1.87	0.56
3:FC:83:VAL:N	12:FL:67:PHE:O	2.30	0.56
2:AB:693:PRO:HB2	2:AB:984:TRP:CZ3	2.41	0.55
3:AC:147:PRO:O	3:AC:149:GLY:N	2.39	0.55
5:AE:137:GLU:O	5:AE:139:ALA:N	2.39	0.55
2:BB:59:GLY:O	2:BB:62:ASN:N	2.39	0.55
2:BB:251:HIS:HB2	2:BB:259:THR:OG1	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:72:VAL:HG22	14:BN:137:PHE:HE1	1.71	0.55
1:CA:473:GLY:HA2	2:CB:1071:VAL:O	2.06	0.55
1:CA:475:ARG:HB3	1:CA:475:ARG:HH11	1.71	0.55
1:CA:753:ASN:ND2	1:CA:767:ASN:O	2.40	0.55
1:CA:1146:SER:OG	1:CA:1147:PHE:N	2.36	0.55
1:CA:1617:THR:CB	1:CA:1620:GLN:HG2	2.35	0.55
2:CB:170:CYS:SG	2:CB:171:HIS:N	2.79	0.55
2:CB:807:GLU:O	2:CB:902:SER:OG	2.05	0.55
2:CB:1073:GLU:H	2:CB:1073:GLU:CD	2.08	0.55
9:CI:10:CYS:HB3	9:CI:13:CYS:SG	2.46	0.55
1:DA:399:LEU:HD13	7:DO:271:PRO:HG2	1.89	0.55
1:DA:471:MET:HA	1:DA:474:LYS:HE3	1.87	0.55
1:DA:641:GLU:HB2	6:DF:99:LEU:HD22	1.88	0.55
2:DB:262:PHE:CZ	2:DB:269:TYR:HB2	2.41	0.55
2:DB:380:LYS:HG3	2:DB:637:TYR:CD2	2.41	0.55
2:DB:851:TYR:HD1	2:DB:881:TYR:CE1	2.24	0.55
3:DC:328:LEU:HB3	11:DK:121:LEU:HD11	1.87	0.55
10:DJ:2:ILE:HD12	10:DJ:57:ILE:HD13	1.86	0.55
1:EA:812:VAL:HG12	1:EA:813:LEU:HD23	1.89	0.55
1:EA:1294:MET:N	1:EA:1294:MET:SD	2.80	0.55
2:EB:628:TYR:HD1	2:EB:640:LEU:HD13	1.70	0.55
2:EB:916:LYS:HE3	2:EB:1040:VAL:HG13	1.88	0.55
3:EC:100:ARG:HH12	3:EC:193:LEU:C	2.09	0.55
3:EC:100:ARG:HH12	3:EC:193:LEU:CA	2.19	0.55
6:EF:101:ILE:HG21	6:EF:120:ILE:HG21	1.86	0.55
14:EN:55:LEU:HB3	14:EN:136:VAL:HG22	1.89	0.55
14:EN:92:ASP:O	14:EN:93:THR:OG1	2.21	0.55
1:FA:1022:CYS:HA	1:FA:1615:TYR:OH	2.06	0.55
1:FA:1216:THR:HG23	1:FA:1234:LYS:HD2	1.87	0.55
2:FB:178:TYR:O	2:FB:182:GLN:HG2	2.06	0.55
2:FB:383:SER:OG	2:FB:384:LEU:N	2.39	0.55
3:FC:101:ILE:HA	3:FC:104:VAL:HG23	1.89	0.55
1:AA:1617:THR:CB	1:AA:1620:GLN:HG2	2.36	0.55
2:AB:887:LEU:O	2:AB:887:LEU:HD22	2.07	0.55
5:AE:98:ILE:O	5:AE:102:GLU:HB2	2.06	0.55
14:AN:149:ASP:O	14:AN:153:VAL:HG12	2.06	0.55
1:BA:203:THR:OG1	1:BA:204:GLU:N	2.39	0.55
1:BA:756:LYS:HG2	9:BI:85:LYS:CE	2.36	0.55
1:BA:1136:VAL:HG22	1:BA:1174:TYR:CE1	2.41	0.55
2:BB:19:LEU:N	2:BB:19:LEU:HD23	2.21	0.55
2:BB:975:HIS:NE2	2:BB:1003:ALA:HB2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:83:VAL:HG12	3:BC:204:LEU:HD12	1.88	0.55
3:BC:100:ARG:HH12	3:BC:193:LEU:HA	1.71	0.55
14:BN:148:ILE:HD13	14:BN:150:TYR:OH	2.06	0.55
1:CA:976:ALA:HB1	1:CA:981:TYR:HB3	1.88	0.55
1:CA:1463:ASP:O	1:CA:1465:GLU:N	2.33	0.55
2:CB:73:ILE:HG13	2:CB:429:ARG:NH2	2.21	0.55
2:CB:274:VAL:HA	2:CB:277:LEU:HD12	1.88	0.55
2:CB:903:ILE:HD13	2:CB:905:TYR:CE1	2.40	0.55
2:CB:983:PRO:HB2	2:CB:984:TRP:CE3	2.42	0.55
1:DA:20:THR:HG23	1:DA:23:GLU:HG3	1.89	0.55
1:DA:699:CYS:O	1:DA:815:ARG:NH1	2.40	0.55
1:DA:1292:ILE:CD1	1:DA:1473:LYS:H	2.17	0.55
1:DA:1454:HIS:HB2	1:DA:1457:ILE:HG13	1.88	0.55
1:DA:1559:ARG:O	1:DA:1563:VAL:HG23	2.06	0.55
2:DB:693:PRO:O	2:DB:696:ILE:HG13	2.06	0.55
7:DG:57:PRO:HG2	7:DG:58:LEU:H	1.72	0.55
1:EA:908:VAL:HG11	9:EI:82:ILE:HG13	1.88	0.55
2:EB:408:LEU:HA	2:EB:411:MET:HG3	1.87	0.55
2:EB:644:GLY:HA2	2:EB:648:ARG:CZ	2.36	0.55
1:FA:615:ARG:NH2	2:FB:928:SER:OG	2.38	0.55
1:FA:1146:SER:OG	1:FA:1147:PHE:N	2.38	0.55
2:FB:311:ARG:HH22	9:FI:8:ILE:CD1	2.19	0.55
2:FB:1046:VAL:HG22	2:FB:1047:ARG:H	1.71	0.55
3:AC:59:ILE:HD11	3:AC:63:ILE:HB	1.88	0.55
7:AG:89:ILE:HA	7:AG:118:CYS:SG	2.46	0.55
1:BA:339:PHE:O	1:BA:1629:ASN:HB2	2.06	0.55
1:BA:850:SER:O	1:BA:852:ASP:N	2.39	0.55
1:BA:1257:SER:HA	1:BA:1499:ARG:NH2	2.21	0.55
2:BB:584:CYS:HB2	2:BB:598:HIS:ND1	2.22	0.55
2:BB:917:PHE:HD2	2:BB:1035:ARG:HA	1.72	0.55
7:BO:283:GLU:O	7:BO:286:ILE:HB	2.06	0.55
1:CA:803:PRO:O	1:CA:806:ALA:HB3	2.05	0.55
1:CA:1217:LEU:HD13	1:CA:1573:TYR:CE1	2.40	0.55
6:CF:147:SER:HB3	6:CF:150:GLU:HG2	1.87	0.55
1:DA:470:HIS:O	2:DB:1058:GLN:NE2	2.38	0.55
1:DA:1108:HIS:CG	1:DA:1117:SER:HB3	2.41	0.55
1:DA:1487:ASN:O	1:DA:1490:GLU:N	2.39	0.55
2:DB:526:GLY:HA2	2:DB:696:ILE:HG22	1.89	0.55
3:DC:289:VAL:HG12	3:DC:290:LYS:H	1.71	0.55
1:EA:509:GLU:OE1	1:EA:579:ARG:NH2	2.37	0.55
1:EA:615:ARG:NH2	2:EB:928:SER:OG	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:618:TYR:HB3	1:EA:670:ILE:CD1	2.36	0.55
2:EB:250:LEU:HD11	2:EB:378:ILE:HD13	1.88	0.55
2:EB:501:ARG:HG3	2:EB:699:ILE:HD12	1.88	0.55
1:FA:937:ASN:O	1:FA:940:VAL:HB	2.06	0.55
2:FB:970:LYS:NZ	2:FB:1011:GLU:OE2	2.24	0.55
6:FF:128:LYS:NZ	6:FF:148:VAL:O	2.38	0.55
1:AA:560:GLN:O	1:AA:575:LYS:NZ	2.28	0.55
1:AA:928:MET:HG3	1:AA:933:ALA:HB3	1.88	0.55
1:AA:1292:ILE:O	1:AA:1292:ILE:HD12	2.05	0.55
2:AB:408:LEU:HA	2:AB:411:MET:HG3	1.88	0.55
2:AB:584:CYS:HB2	2:AB:598:HIS:ND1	2.22	0.55
2:AB:609:ARG:O	2:AB:612:LYS:HB3	2.06	0.55
2:AB:1024:ALA:O	2:AB:1026:ILE:N	2.39	0.55
4:AD:32:SER:N	4:AD:35:GLU:OE2	2.40	0.55
5:AE:177:ARG:HD3	5:AE:215:MET:HB2	1.89	0.55
6:AF:92:ARG:O	6:AF:96:THR:OG1	2.23	0.55
7:AG:72:LYS:O	7:AG:81:VAL:HG23	2.07	0.55
1:BA:96:ILE:HG23	1:BA:228:LEU:HD21	1.88	0.55
1:BA:785:GLN:O	1:BA:794:VAL:HG22	2.06	0.55
1:BA:896:THR:O	1:BA:900:VAL:HG13	2.07	0.55
6:BF:92:ARG:O	6:BF:96:THR:OG1	2.21	0.55
2:CB:97:VAL:HG13	2:CB:141:LEU:HD11	1.89	0.55
2:CB:558:VAL:HA	2:CB:561:ILE:HG13	1.88	0.55
2:CB:956:SER:O	9:CI:107:GLY:HA2	2.05	0.55
14:CN:105:SER:OG	14:CN:132:GLN:NE2	2.39	0.55
1:DA:1092:GLU:O	1:DA:1094:ALA:N	2.39	0.55
1:DA:1342:PRO:HG2	2:DB:259:THR:HG22	1.88	0.55
2:DB:887:LEU:HB3	2:DB:901:VAL:HG13	1.88	0.55
7:DG:29:ASP:C	7:DG:31:LYS:H	2.10	0.55
1:EA:483:VAL:HG21	2:EB:1042:ASP:HA	1.87	0.55
1:EA:1241:PRO:HG3	1:EA:1540:GLY:HA3	1.87	0.55
2:EB:210:ARG:NH2	2:EB:625:GLU:OE2	2.39	0.55
2:EB:554:GLN:HA	2:EB:646:HIS:CD2	2.41	0.55
2:EB:662:ASP:OD1	2:EB:663:ILE:N	2.39	0.55
2:EB:773:VAL:HG21	2:EB:1031:VAL:HB	1.88	0.55
7:EG:159:LYS:HZ1	7:FO:279:VAL:HG23	1.71	0.55
7:EO:280:PHE:O	7:EO:283:GLU:HG3	2.06	0.55
1:FA:1241:PRO:HG3	1:FA:1540:GLY:HA3	1.87	0.55
2:FB:138:LEU:O	2:FB:139:LEU:HD23	2.06	0.55
2:AB:250:LEU:HD11	2:AB:378:ILE:HD13	1.87	0.55
2:AB:776:ILE:HB	2:AB:1026:ILE:HD13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:163:TYR:N	3:AC:166:ASP:OD2	2.39	0.55
5:AE:40:GLU:HA	5:AE:43:LYS:HE3	1.87	0.55
1:BA:7:VAL:HG11	2:BB:1175:THR:O	2.06	0.55
1:BA:456:VAL:HG11	2:BB:1192:MET:SD	2.47	0.55
1:BA:758:GLU:O	1:BA:760:TRP:N	2.39	0.55
1:BA:1335:LYS:HD2	1:BA:1338:ARG:HH21	1.72	0.55
1:CA:470:HIS:NE2	7:CO:314:THR:O	2.39	0.55
1:CA:697:TYR:HE1	1:CA:702:PRO:CD	2.20	0.55
1:CA:985:ARG:HD2	1:CA:987:TYR:HB3	1.88	0.55
2:CB:562:PRO:HG3	2:CB:588:ILE:HD13	1.89	0.55
2:CB:888:ILE:HG13	12:CL:54:ARG:O	2.06	0.55
3:CC:84:TYR:HB3	12:CL:64:LEU:HD11	1.88	0.55
5:CE:48:ASP:O	5:CE:50:MET:N	2.38	0.55
1:DA:1298:ASP:OD1	1:DA:1298:ASP:N	2.39	0.55
2:DB:744:LEU:HD11	2:DB:799:GLY:HA2	1.89	0.55
2:DB:773:VAL:HG21	2:DB:1031:VAL:HB	1.89	0.55
10:DJ:43:ARG:NH1	10:DJ:46:CYS:SG	2.79	0.55
1:EA:831:ASP:OD1	1:EA:831:ASP:N	2.31	0.55
1:EA:1262:LEU:HD12	1:EA:1264:SER:HG	1.72	0.55
1:EA:1263:LEU:O	1:EA:1265:GLU:N	2.39	0.55
1:EA:1556:GLU:O	1:EA:1559:ARG:HB3	2.05	0.55
7:EO:290:GLU:O	7:EO:293:LYS:N	2.30	0.55
1:FA:315:ILE:HG13	1:FA:319:GLU:HB2	1.88	0.55
2:FB:290:ASP:O	2:FB:292:ILE:N	2.40	0.55
3:FC:172:GLN:HB2	3:FC:175:GLN:NE2	2.21	0.55
4:FD:82:LEU:HD22	7:FG:67:ASN:ND2	2.21	0.55
5:FE:147:HIS:HB3	5:FE:150:VAL:HG23	1.86	0.55
12:FL:32:ALA:HB3	12:FL:55:ILE:HG13	1.89	0.55
1:AA:480:ALA:HB2	2:AB:1046:VAL:HG23	1.87	0.55
9:AI:2:SER:HB2	9:AI:11:LEU:HD21	1.88	0.55
1:BA:974:THR:O	1:BA:974:THR:OG1	2.18	0.55
1:BA:1148:LEU:HD11	1:BA:1167:ARG:HB2	1.89	0.55
2:BB:675:ALA:HB2	2:BB:686:HIS:CG	2.41	0.55
2:BB:903:ILE:HD13	2:BB:905:TYR:CE1	2.41	0.55
5:BE:7:ARG:O	5:BE:11:ARG:HG3	2.07	0.55
10:BJ:36:LEU:HD11	10:BJ:51:LEU:HB2	1.89	0.55
2:CB:656:LEU:HG	2:CB:687:THR:O	2.07	0.55
3:CC:86:PHE:HE2	3:CC:205:LYS:HE3	1.71	0.55
3:CC:289:VAL:HG12	3:CC:290:LYS:H	1.72	0.55
1:DA:1553:TYR:CD1	5:DE:144:ILE:HB	2.39	0.55
1:DA:1656:VAL:HG23	7:DG:107:ILE:HB	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:902:SER:OG	2:DB:903:ILE:N	2.39	0.55
2:DB:983:PRO:HB2	2:DB:984:TRP:CE3	2.42	0.55
2:DB:1047:ARG:NH2	2:DB:1059:PRO:HB3	2.21	0.55
4:DD:36:VAL:HG21	7:DG:38:ILE:HD13	1.89	0.55
11:DK:53:ALA:HB1	11:DK:104:ARG:HH12	1.72	0.55
11:DK:60:SER:HG	11:DK:104:ARG:HH21	1.51	0.55
11:DK:83:ASN:HB3	11:DK:86:VAL:HG23	1.87	0.55
1:EA:93:GLN:HB2	1:EA:355:PHE:HE2	1.70	0.55
1:EA:315:ILE:HG13	1:EA:319:GLU:HB2	1.87	0.55
1:EA:1617:THR:CB	1:EA:1620:GLN:HG2	2.37	0.55
2:EB:757:TYR:CZ	2:EB:762:MET:HB3	2.41	0.55
3:EC:84:TYR:HB3	12:EL:64:LEU:HD11	1.88	0.55
6:EF:65:ARG:HB3	6:EF:65:ARG:NH1	2.22	0.55
6:EF:92:ARG:O	6:EF:96:THR:OG1	2.21	0.55
1:FA:703:GLU:H	1:FA:703:GLU:CD	2.09	0.55
2:FB:47:GLY:HA2	2:FB:50:ASN:HD22	1.72	0.55
2:FB:1047:ARG:NH1	2:FB:1050:GLY:H	2.05	0.55
14:FN:37:ASN:HD22	14:FN:38:PHE:H	1.55	0.55
1:AA:795:HIS:O	1:AA:798:HIS:HB3	2.07	0.55
1:AA:1031:HIS:HB2	1:AA:1182:GLY:O	2.06	0.55
1:AA:1136:VAL:HG22	1:AA:1174:TYR:CD1	2.42	0.55
1:AA:1470:CYS:SG	1:AA:1471:GLU:N	2.80	0.55
2:AB:898:LEU:N	12:AL:46:VAL:HG21	2.22	0.55
14:AN:55:LEU:HD12	14:AN:56:ILE:H	1.72	0.55
1:BA:697:TYR:HE1	1:BA:702:PRO:HD3	1.71	0.55
1:BA:1094:ALA:HB2	1:BA:1132:TYR:HB3	1.87	0.55
1:BA:1638:SER:HA	1:BA:1641:ILE:HD12	1.88	0.55
2:BB:383:SER:OG	2:BB:384:LEU:N	2.39	0.55
2:BB:693:PRO:HB2	2:BB:984:TRP:CZ3	2.41	0.55
2:BB:845:LEU:HD12	12:BL:58:LYS:HD2	1.89	0.55
2:BB:967:LEU:HD12	2:BB:967:LEU:H	1.71	0.55
14:BN:97:SER:HB3	14:BN:105:SER:HB3	1.89	0.55
1:DA:203:THR:OG1	1:DA:204:GLU:N	2.39	0.55
1:DA:697:TYR:HE1	1:DA:702:PRO:CD	2.20	0.55
1:DA:966:LEU:HD11	1:DA:968:SER:HB3	1.88	0.55
2:DB:504:HIS:HB3	2:DB:542:LEU:HD23	1.89	0.55
2:DB:575:HIS:NE2	13:DM:76:TYR:OH	2.38	0.55
5:DE:98:ILE:O	5:DE:102:GLU:HB2	2.05	0.55
1:EA:1263:LEU:C	1:EA:1265:GLU:H	2.10	0.55
1:FA:835:LEU:HD22	1:FA:915:GLY:O	2.07	0.55
2:FB:403:LEU:HD11	2:FB:408:LEU:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FD:89:LEU:O	4:FD:92:ILE:N	2.35	0.55
1:AA:406:LEU:HB3	7:AO:266:GLN:CB	2.37	0.55
1:AA:1151:ASN:HB3	1:AA:1154:LEU:HD12	1.88	0.55
5:AE:28:TYR:CE1	5:AE:78:LEU:HB3	2.42	0.55
9:AI:122:ARG:HG3	9:AI:122:ARG:O	2.07	0.55
11:AK:54:THR:HG22	11:AK:61:ALA:CA	2.36	0.55
13:AM:42:LYS:O	14:AN:29:PHE:HA	2.07	0.55
1:BA:1241:PRO:HG3	1:BA:1540:GLY:CA	2.37	0.55
2:BB:294:GLY:O	13:BM:28:LYS:NZ	2.32	0.55
2:BB:913:ILE:HD13	2:BB:930:LYS:HG3	1.89	0.55
3:BC:65:ASN:OD1	3:BC:68:ARG:NH1	2.40	0.55
3:BC:86:PHE:HE2	3:BC:205:LYS:HE3	1.72	0.55
3:BC:197:ARG:HG2	10:BJ:61:LEU:HD22	1.89	0.55
7:BG:24:VAL:O	7:BG:128:GLN:NE2	2.40	0.55
1:CA:1262:LEU:HD12	1:CA:1264:SER:OG	2.07	0.55
2:CB:295:ASN:HB3	14:CN:104:LEU:HD13	1.88	0.55
2:CB:533:THR:OG1	2:CB:534:PRO:HD2	2.06	0.55
2:CB:644:GLY:HA2	2:CB:648:ARG:CZ	2.37	0.55
2:CB:775:VAL:H	2:CB:1028:VAL:HG12	1.71	0.55
2:CB:1047:ARG:NH1	2:CB:1050:GLY:H	2.05	0.55
3:CC:100:ARG:HH12	3:CC:193:LEU:HA	1.71	0.55
1:DA:1136:VAL:HG22	1:DA:1174:TYR:CD1	2.42	0.55
1:DA:1335:LYS:HD2	1:DA:1338:ARG:HH21	1.72	0.55
1:DA:1555:VAL:CG1	5:DE:178:ILE:HD13	2.37	0.55
7:DG:86:GLY:O	7:DG:120:VAL:HG23	2.06	0.55
8:DH:97:MET:HB3	8:DH:118:PHE:CD1	2.42	0.55
2:EB:47:GLY:HA2	2:EB:50:ASN:HD22	1.72	0.55
2:EB:987:ASN:O	2:EB:989:ASP:N	2.40	0.55
3:EC:86:PHE:HE2	3:EC:205:LYS:HE3	1.72	0.55
7:EO:283:GLU:HA	7:EO:286:ILE:HD12	1.89	0.55
1:FA:416:ARG:O	1:FA:419:ILE:HB	2.06	0.55
1:FA:804:GLU:H	1:FA:804:GLU:CD	2.09	0.55
1:FA:809:VAL:HG13	1:FA:813:LEU:HD11	1.88	0.55
2:FB:38:LEU:HD21	2:FB:760:TYR:O	2.06	0.55
2:FB:604:ILE:O	2:FB:608:LEU:HG	2.07	0.55
2:FB:773:VAL:HG21	2:FB:1031:VAL:HB	1.87	0.55
2:FB:776:ILE:HD12	2:FB:777:SER:H	1.72	0.55
8:FH:101:ALA:HB2	8:FH:116:TYR:HE1	1.72	0.55
1:AA:835:LEU:HD22	1:AA:915:GLY:O	2.07	0.55
1:AA:1458:THR:HG21	1:AA:1475:GLU:HG2	1.89	0.55
2:AB:1151:ILE:HG22	2:AB:1152:PHE:H	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:81:PHE:HD1	13:AM:88:ILE:HB	1.71	0.55
1:BA:1007:ILE:HG22	2:BB:515:THR:HG22	1.89	0.55
1:BA:1139:ASN:HB2	5:BE:205:SER:HA	1.89	0.55
2:BB:35:PHE:HB3	2:BB:38:LEU:HD23	1.88	0.55
2:BB:97:VAL:HG13	2:BB:141:LEU:HD11	1.89	0.55
2:BB:851:TYR:HD1	2:BB:881:TYR:CE1	2.25	0.55
2:BB:904:LYS:C	2:BB:905:TYR:HD1	2.10	0.55
3:BC:85:PHE:CG	3:BC:204:LEU:HD13	2.42	0.55
3:BC:109:ASP:HB3	3:BC:112:MET:HE3	1.88	0.55
5:BE:19:VAL:O	5:BE:23:VAL:HG23	2.07	0.55
2:CB:96:SER:OG	2:CB:144:SER:O	2.21	0.55
2:CB:609:ARG:O	2:CB:612:LYS:HB3	2.07	0.55
2:CB:790:ASN:OD1	2:CB:792:SER:N	2.40	0.55
3:CC:37:LYS:HD2	11:CK:130:VAL:HG22	1.88	0.55
4:CD:33:THR:O	4:CD:36:VAL:HB	2.07	0.55
7:CG:45:LEU:CD1	7:CG:118:CYS:HB2	2.36	0.55
7:CG:229:LEU:HD12	7:CG:230:ARG:H	1.71	0.55
10:CJ:6:ARG:HB3	10:CJ:11:GLY:O	2.07	0.55
1:DA:850:SER:OG	1:DA:851:VAL:N	2.33	0.55
2:DB:885:VAL:HG11	12:DL:58:LYS:HB3	1.89	0.55
2:DB:987:ASN:O	2:DB:989:ASP:N	2.40	0.55
3:DC:42:VAL:HG22	3:DC:56:LEU:HD22	1.87	0.55
3:DC:66:ALA:O	3:DC:70:ILE:HG13	2.07	0.55
3:DC:128:ASP:C	3:DC:130:ASN:H	2.10	0.55
9:DI:13:CYS:HB3	9:DI:33:CYS:HB3	1.88	0.55
1:EA:1235:THR:O	1:EA:1544:ASN:ND2	2.40	0.55
2:EB:1186:ASP:OD2	2:EB:1198:TYR:OH	2.16	0.55
1:FA:371:SER:HB3	7:FO:311:GLU:HA	1.89	0.55
1:FA:484:ILE:HG23	1:FA:631:ASP:O	2.06	0.55
1:FA:1114:TYR:O	5:FE:152:LYS:NZ	2.38	0.55
1:FA:1647:ASN:HD22	1:FA:1648:ASN:N	2.04	0.55
2:FB:140:LYS:HE2	2:FB:153:PHE:HD2	1.72	0.55
2:FB:397:THR:HA	2:FB:400:GLN:OE1	2.07	0.55
2:FB:572:PRO:O	2:FB:576:THR:OG1	2.13	0.55
1:AA:987:TYR:C	1:AA:987:TYR:CD2	2.81	0.55
2:AB:383:SER:OG	2:AB:384:LEU:N	2.39	0.55
2:AB:644:GLY:HA2	2:AB:648:ARG:CZ	2.37	0.55
7:AG:67:ASN:O	7:AG:70:VAL:HG23	2.07	0.55
1:BA:127:TYR:CE2	1:BA:193:ILE:HD13	2.41	0.55
1:BA:843:ARG:NE	1:BA:945:CYS:O	2.38	0.55
2:BB:74:PHE:HB2	2:BB:91:LEU:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:33:GLY:HA3	7:BG:230:ARG:NH1	2.22	0.55
8:BH:97:MET:HB3	8:BH:118:PHE:CD1	2.42	0.55
10:BJ:69:ARG:HD3	12:BL:33:GLU:O	2.07	0.55
11:BK:49:LEU:HD11	11:BK:54:THR:HG21	1.89	0.55
1:CA:519:LEU:O	1:CA:523:VAL:HG23	2.07	0.55
1:CA:624:TYR:O	1:CA:625:ASN:HB3	2.07	0.55
1:CA:914:ASP:O	1:CA:919:LYS:NZ	2.31	0.55
1:CA:1217:LEU:HD11	1:CA:1572:ARG:HD2	1.87	0.55
1:CA:1241:PRO:HG3	1:CA:1540:GLY:HA3	1.89	0.55
1:DA:718:THR:OG1	1:DA:730:GLN:OE1	2.24	0.55
1:DA:1170:MET:HA	1:DA:1173:LYS:HB3	1.89	0.55
1:DA:1322:ILE:O	1:DA:1325:LEU:N	2.40	0.55
2:DB:679:GLN:NE2	14:DN:155:VAL:O	2.38	0.55
2:DB:909:ARG:O	2:DB:1035:ARG:NH2	2.38	0.55
2:EB:848:ILE:HG13	12:EL:60:ARG:HA	1.88	0.55
5:EE:147:HIS:HB3	5:EE:150:VAL:HG23	1.88	0.55
5:EE:198:ILE:HD12	5:EE:210:SER:OG	2.07	0.55
14:EN:75:GLU:H	14:EN:91:ASP:CB	2.19	0.55
1:FA:19:LEU:HB3	1:FA:24:ILE:HD11	1.89	0.55
1:FA:721:LYS:H	8:FH:96:VAL:HB	1.72	0.55
1:FA:809:VAL:HG12	1:FA:810:LEU:N	2.21	0.55
1:FA:1254:PHE:CE2	1:FA:1258:ILE:HD13	2.42	0.55
2:FB:99:VAL:HG11	2:FB:139:LEU:HD13	1.88	0.55
2:FB:555:GLN:NE2	2:FB:644:GLY:O	2.40	0.55
7:FG:250:ILE:HG22	7:FG:251:SER:H	1.72	0.55
14:FN:55:LEU:C	14:FN:56:ILE:HG13	2.28	0.55
3:AC:70:ILE:O	3:AC:72:ILE:N	2.40	0.54
6:AF:102:SER:HB3	6:AF:117:PRO:HB3	1.88	0.54
1:BA:669:LEU:H	1:BA:787:GLY:HA2	1.71	0.54
1:BA:729:LYS:HD2	8:BH:120:GLY:CA	2.37	0.54
2:BB:73:ILE:HG13	2:BB:429:ARG:NH2	2.22	0.54
4:BD:22:ILE:HG23	7:BG:44:ALA:O	2.07	0.54
2:CB:290:ASP:O	2:CB:292:ILE:N	2.40	0.54
2:CB:940:GLU:HB2	2:CB:1012:PRO:HB2	1.89	0.54
3:CC:150:SER:OG	3:CC:155:GLU:OE2	2.19	0.54
7:CG:111:THR:HG1	7:CG:113:PHE:HD1	1.56	0.54
9:CI:2:SER:HA	9:CI:9:PHE:O	2.06	0.54
14:CN:75:GLU:H	14:CN:91:ASP:CG	2.10	0.54
1:DA:505:LEU:O	1:DA:581:ILE:HG22	2.07	0.54
1:DA:522:ALA:HB1	1:DA:532:GLY:HA2	1.87	0.54
1:DA:875:LEU:O	1:DA:879:LEU:HG	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:612:LYS:N	2:DB:620:LEU:HD21	2.22	0.54
2:DB:1153:ILE:HD12	2:DB:1154:ASP:H	1.72	0.54
3:DC:223:SER:HB2	3:DC:303:GLU:HB3	1.89	0.54
4:DD:47:LYS:HD3	4:DD:82:LEU:HD13	1.89	0.54
10:DJ:41:LEU:HD22	10:DJ:46:CYS:HB3	1.89	0.54
1:EA:719:ILE:HG22	1:EA:725:LEU:H	1.72	0.54
1:EA:758:GLU:O	1:EA:760:TRP:N	2.40	0.54
1:EA:822:THR:O	2:EB:778:TYR:HE1	1.89	0.54
1:EA:952:LEU:CD1	2:EB:519:LYS:HD2	2.37	0.54
2:EB:346:ASP:H	13:EM:113:ILE:HG13	1.72	0.54
2:EB:852:VAL:HG13	2:EB:856:ASP:HB2	1.89	0.54
1:FA:699:CYS:O	1:FA:815:ARG:NH1	2.39	0.54
1:FA:987:TYR:C	1:FA:987:TYR:CD2	2.80	0.54
1:FA:1012:LYS:HE3	2:FB:515:THR:HG23	1.88	0.54
1:FA:1195:GLU:O	1:FA:1198:THR:OG1	2.24	0.54
1:FA:1324:LEU:HD22	1:FA:1492:ILE:HG13	1.88	0.54
2:FB:913:ILE:HD13	2:FB:930:LYS:HG3	1.88	0.54
3:FC:100:ARG:HH12	3:FC:193:LEU:CA	2.19	0.54
1:AA:1440:ASN:OD1	1:AA:1440:ASN:N	2.40	0.54
1:AA:1621:PHE:CD1	1:AA:1624:LYS:HE2	2.41	0.54
2:AB:140:LYS:HE2	2:AB:153:PHE:HD2	1.72	0.54
2:CB:380:LYS:HE3	2:CB:637:TYR:HB3	1.89	0.54
2:CB:876:SER:C	2:CB:878:GLU:H	2.10	0.54
2:CB:887:LEU:HB3	2:CB:901:VAL:HG13	1.89	0.54
3:CC:147:PRO:O	3:CC:149:GLY:N	2.41	0.54
4:CD:36:VAL:HG21	7:CG:38:ILE:HD13	1.90	0.54
8:CH:97:MET:HB3	8:CH:118:PHE:CD1	2.42	0.54
12:CL:40:LEU:HD22	12:CL:44:ASP:HB3	1.89	0.54
13:CM:58:GLU:HG2	13:CM:59:ARG:N	2.22	0.54
1:DA:7:VAL:HG11	2:DB:1175:THR:O	2.08	0.54
1:DA:530:TRP:HZ2	1:DA:582:LYS:HA	1.71	0.54
1:DA:1263:LEU:C	1:DA:1265:GLU:H	2.11	0.54
3:DC:147:PRO:HG2	3:DC:150:SER:HB2	1.89	0.54
6:DF:70:LYS:HG3	7:DG:94:PRO:O	2.08	0.54
13:DM:78:VAL:O	13:DM:91:TYR:N	2.35	0.54
14:DN:107:MET:N	14:DN:107:MET:SD	2.80	0.54
1:EA:512:THR:O	1:EA:516:ILE:HB	2.08	0.54
1:EA:1545:ASP:CG	1:EA:1546:VAL:H	2.11	0.54
2:EB:349:VAL:O	2:EB:353:VAL:HG23	2.06	0.54
2:EB:854:GLU:HG3	2:EB:875:HIS:HA	1.89	0.54
2:EB:1048:SER:OG	2:EB:1049:THR:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EG:250:ILE:HG22	7:EG:251:SER:H	1.71	0.54
9:EI:101:LEU:HD11	9:EI:122:ARG:HH22	1.72	0.54
1:FA:239:PHE:CG	1:FA:260:GLN:HG2	2.42	0.54
1:FA:956:ARG:HG2	1:FA:979:GLY:O	2.07	0.54
1:FA:975:ASP:OD1	1:FA:976:ALA:N	2.40	0.54
1:FA:1248:ASP:O	1:FA:1251:ALA:HB3	2.08	0.54
10:FJ:18:TRP:O	10:FJ:22:LEU:HG	2.07	0.54
7:FO:265:SER:HB3	7:FO:268:GLU:HG2	1.87	0.54
1:AA:339:PHE:O	1:AA:1629:ASN:HB2	2.08	0.54
1:AA:1027:LEU:HD21	1:AA:1588:MET:HG2	1.88	0.54
1:AA:1314:GLN:O	1:AA:1318:SER:HB3	2.06	0.54
1:AA:1540:GLY:O	1:AA:1542:THR:N	2.40	0.54
1:BA:1601:GLN:C	1:BA:1603:MET:H	2.10	0.54
2:BB:105:ALA:O	2:BB:135:GLY:HA3	2.07	0.54
8:BH:107:VAL:HG23	8:BH:112:ILE:HA	1.88	0.54
10:BJ:45:CYS:O	10:BJ:48:ARG:HB3	2.07	0.54
1:CA:9:SER:OG	4:CD:20:VAL:HG21	2.07	0.54
1:CA:579:ARG:HH11	1:CA:579:ARG:HG3	1.71	0.54
1:CA:1540:GLY:O	1:CA:1542:THR:N	2.38	0.54
6:CF:83:PRO:O	6:CF:151:LEU:HD22	2.06	0.54
9:CI:101:LEU:O	9:CI:106:GLU:HG2	2.07	0.54
1:DA:223:PHE:CZ	1:DA:227:LEU:HD21	2.42	0.54
13:DM:16:GLN:HG3	13:DM:17:ASP:H	1.72	0.54
1:EA:836:THR:OG1	1:EA:837:ALA:N	2.40	0.54
1:EA:937:ASN:O	1:EA:940:VAL:HB	2.07	0.54
1:FA:550:SER:O	1:FA:553:GLN:HG3	2.07	0.54
1:FA:966:LEU:HD23	1:FA:969:PHE:CD2	2.42	0.54
1:FA:1175:MET:O	1:FA:1178:LEU:HG	2.08	0.54
2:FB:18:THR:HA	2:FB:21:ARG:NH2	2.22	0.54
6:FF:92:ARG:O	6:FF:96:THR:OG1	2.21	0.54
1:AA:669:LEU:HD12	1:AA:786:TYR:CD1	2.38	0.54
2:AB:18:THR:HA	2:AB:21:ARG:HH21	1.70	0.54
2:AB:35:PHE:HB3	2:AB:38:LEU:HD23	1.89	0.54
2:AB:773:VAL:HG21	2:AB:1031:VAL:HB	1.88	0.54
2:AB:825:PHE:HE2	2:AB:899:GLN:HA	1.73	0.54
2:AB:1047:ARG:HG3	2:AB:1068:GLY:HA2	1.90	0.54
3:AC:255:VAL:HG12	3:AC:256:ILE:HG12	1.89	0.54
7:AG:50:ALA:HA	7:AG:113:PHE:CE2	2.43	0.54
10:AJ:43:ARG:O	10:AJ:47:ARG:HG3	2.08	0.54
1:BA:1226:VAL:HG12	1:BA:1227:MET:HG2	1.89	0.54
1:BA:1344:ILE:HD13	2:BB:329:TYR:HE2	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1538:VAL:HA	1:BA:1541:ILE:HD11	1.89	0.54
1:BA:1596:LEU:HD22	1:BA:1602:GLY:HA2	1.89	0.54
2:BB:187:SER:CB	10:BJ:59:LYS:HZ3	2.19	0.54
2:BB:412:ILE:O	2:BB:416:LYS:HG2	2.07	0.54
2:BB:707:SER:HB2	2:BB:715:ASN:OD1	2.07	0.54
7:BO:287:GLU:O	7:BO:291:SER:N	2.39	0.54
1:CA:512:THR:O	1:CA:516:ILE:HB	2.06	0.54
1:CA:532:GLY:O	1:CA:580:HIS:N	2.24	0.54
1:CA:1216:THR:HG23	1:CA:1234:LYS:HD2	1.89	0.54
1:CA:1257:SER:HA	1:CA:1499:ARG:NH2	2.22	0.54
2:CB:12:ARG:NH2	2:CB:755:ASN:OD1	2.40	0.54
2:CB:848:ILE:CG1	12:CL:60:ARG:HA	2.35	0.54
2:CB:964:VAL:O	2:CB:966:SER:N	2.40	0.54
5:CE:39:LEU:O	5:CE:42:PHE:HB3	2.08	0.54
1:DA:58:LEU:HD22	7:DO:296:ASP:OD1	2.07	0.54
1:DA:896:THR:O	1:DA:900:VAL:HG13	2.08	0.54
1:DA:1540:GLY:O	1:DA:1542:THR:N	2.38	0.54
2:DB:1123:ILE:HD12	2:DB:1124:SER:H	1.72	0.54
2:EB:1138:ALA:O	2:EB:1141:LEU:HG	2.07	0.54
2:FB:533:THR:OG1	2:FB:534:PRO:HD2	2.08	0.54
2:FB:584:CYS:HB2	2:FB:598:HIS:ND1	2.23	0.54
3:FC:65:ASN:OD1	3:FC:68:ARG:NH1	2.41	0.54
11:FK:49:LEU:HD11	11:FK:54:THR:HG21	1.90	0.54
2:AB:18:THR:HA	2:AB:21:ARG:NH2	2.22	0.54
3:AC:85:PHE:CG	3:AC:204:LEU:HD13	2.41	0.54
5:AE:127:ILE:HD11	5:AE:132:ILE:HD11	1.89	0.54
1:BA:521:GLN:O	1:BA:524:ILE:HB	2.07	0.54
1:BA:1136:VAL:HG22	1:BA:1174:TYR:CD1	2.42	0.54
1:BA:1458:THR:HG21	1:BA:1475:GLU:HG2	1.90	0.54
2:BB:140:LYS:HE2	2:BB:153:PHE:HD2	1.72	0.54
2:BB:693:PRO:O	2:BB:696:ILE:HG13	2.08	0.54
3:BC:147:PRO:HG2	3:BC:150:SER:HB2	1.89	0.54
3:BC:223:SER:HB2	3:BC:303:GLU:HB3	1.89	0.54
9:BI:33:CYS:HB2	13:BM:60:LEU:CD2	2.38	0.54
11:BK:83:ASN:HB3	11:BK:86:VAL:HG23	1.88	0.54
1:CA:52:LEU:C	1:CA:54:LEU:H	2.10	0.54
2:CB:302:LEU:HD11	2:CB:379:ARG:CZ	2.38	0.54
1:DA:189:VAL:O	1:DA:193:ILE:HG13	2.08	0.54
1:DA:1545:ASP:CG	1:DA:1546:VAL:N	2.61	0.54
2:DB:38:LEU:HD21	2:DB:760:TYR:O	2.07	0.54
2:DB:338:PHE:CZ	2:DB:353:VAL:HG13	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:707:SER:HB2	2:DB:715:ASN:OD1	2.08	0.54
2:DB:718:GLN:CD	2:DB:920:ARG:HA	2.28	0.54
3:DC:59:ILE:HG12	3:DC:60:ASP:N	2.23	0.54
3:DC:69:ARG:HD3	11:DK:71:THR:OG1	2.08	0.54
8:DH:106:GLU:HG2	8:DH:112:ILE:HD11	1.88	0.54
9:DI:23:VAL:HG21	9:DI:28:VAL:HG13	1.89	0.54
1:EA:3:ILE:HA	7:EG:111:THR:HG22	1.90	0.54
7:EG:132:VAL:HG23	7:EG:232:THR:HB	1.88	0.54
9:EI:95:ASN:HB2	9:EI:113:THR:HB	1.89	0.54
13:EM:77:VAL:HG21	14:EN:64:ILE:HD12	1.90	0.54
14:EN:55:LEU:HD12	14:EN:56:ILE:H	1.72	0.54
1:FA:1144:LEU:O	1:FA:1148:LEU:HB2	2.08	0.54
1:FA:1226:VAL:HG12	1:FA:1227:MET:HG2	1.90	0.54
2:FB:412:ILE:O	2:FB:416:LYS:HG2	2.07	0.54
5:FE:143:ASN:O	5:FE:145:THR:N	2.40	0.54
7:FG:39:VAL:HB	7:FG:126:GLN:HE21	1.72	0.54
13:FM:57:ASN:O	13:FM:103:LYS:NZ	2.40	0.54
1:AA:1335:LYS:HD2	1:AA:1338:ARG:HH21	1.72	0.54
3:AC:88:ASN:OD1	3:AC:202:ILE:HD11	2.07	0.54
1:BA:349:LEU:HD12	1:BA:351:LYS:HE3	1.89	0.54
1:BA:818:THR:CG2	2:BB:780:GLY:HA3	2.37	0.54
2:BB:1073:GLU:H	2:BB:1073:GLU:CD	2.10	0.54
2:BB:1195:ARG:HH21	2:BB:1197:ARG:HD2	1.71	0.54
3:BC:77:SER:O	3:BC:210:LEU:HA	2.08	0.54
1:CA:809:VAL:HG12	1:CA:810:LEU:N	2.22	0.54
1:CA:1019:LEU:HD21	1:CA:1194:GLY:CA	2.38	0.54
1:CA:1263:LEU:HG	1:CA:1267:ILE:HD11	1.89	0.54
9:CI:88:GLN:OE1	9:CI:119:TYR:HB2	2.07	0.54
10:CJ:54:VAL:C	10:CJ:56:LEU:H	2.10	0.54
7:CO:311:GLU:O	7:CO:312:GLU:HG3	2.08	0.54
1:DA:1559:ARG:NH2	5:DE:200:ARG:HD3	2.23	0.54
2:DB:52:LEU:HB3	2:DB:61:LEU:CD1	2.37	0.54
2:DB:661:GLU:HG3	2:DB:662:ASP:N	2.20	0.54
2:DB:821:ILE:HD11	2:DB:899:GLN:OE1	2.07	0.54
2:DB:913:ILE:HD13	2:DB:930:LYS:HG3	1.89	0.54
7:DG:132:VAL:HG23	7:DG:232:THR:HB	1.90	0.54
1:EA:480:ALA:HB2	2:EB:1046:VAL:HA	1.89	0.54
1:EA:1257:SER:HA	1:EA:1499:ARG:NH2	2.23	0.54
1:EA:1647:ASN:HD22	1:EA:1648:ASN:N	2.05	0.54
2:EB:178:TYR:O	2:EB:182:GLN:HG2	2.08	0.54
13:EM:15:VAL:HA	13:EM:90:LEU:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FC:88:ASN:OD1	3:FC:202:ILE:HD11	2.06	0.54
11:FK:75:ALA:O	11:FK:79:VAL:HG23	2.07	0.54
13:FM:40:LEU:HD12	13:FM:41:TYR:H	1.72	0.54
1:AA:586:VAL:HG13	1:AA:638:PRO:HG2	1.89	0.54
2:AB:1047:ARG:NH2	2:AB:1059:PRO:HB3	2.22	0.54
2:AB:1073:GLU:CD	2:AB:1073:GLU:H	2.11	0.54
4:AD:22:ILE:HG23	7:AG:44:ALA:O	2.07	0.54
7:AG:229:LEU:HD12	7:AG:230:ARG:H	1.73	0.54
8:AH:30:SER:HB3	8:AH:36:CYS:HB3	1.89	0.54
1:BA:99:ARG:O	1:BA:109:ARG:NH2	2.40	0.54
1:BA:753:ASN:ND2	1:BA:767:ASN:O	2.41	0.54
2:BB:170:CYS:SG	2:BB:171:HIS:N	2.81	0.54
2:BB:849:GLY:H	2:BB:882:ILE:HB	1.72	0.54
1:CA:928:MET:HG3	1:CA:933:ALA:HB3	1.89	0.54
1:CA:1260:LYS:HA	1:CA:1499:ARG:O	2.07	0.54
2:CB:1047:ARG:NH2	2:CB:1051:PRO:O	2.41	0.54
2:CB:1053:ASN:ND2	2:CB:1054:SER:H	2.06	0.54
5:CE:76:GLY:H	5:CE:106:GLN:HG2	1.72	0.54
1:DA:1136:VAL:HG22	1:DA:1174:TYR:CE1	2.43	0.54
1:DA:1137:SER:HB2	5:DE:205:SER:HB2	1.88	0.54
2:DB:906:ARG:NE	3:DC:95:GLU:OE2	2.37	0.54
9:DI:101:LEU:HD11	9:DI:122:ARG:HH22	1.73	0.54
1:EA:14:VAL:HG22	2:EB:1198:TYR:HB3	1.89	0.54
1:EA:1216:THR:HG23	1:EA:1234:LYS:HD2	1.88	0.54
5:EE:178:ILE:HG22	5:EE:212:ARG:HB3	1.90	0.54
7:EG:40:ARG:NH1	7:EG:123:TYR:OH	2.41	0.54
14:EN:70:LEU:O	14:EN:70:LEU:HG	2.08	0.54
1:FA:136:LEU:HD13	1:FA:189:VAL:HG23	1.90	0.54
1:FA:1463:ASP:O	1:FA:1465:GLU:N	2.38	0.54
1:FA:1470:CYS:SG	1:FA:1471:GLU:N	2.81	0.54
1:FA:1646:LEU:HD11	2:FB:1085:SER:HB3	1.90	0.54
2:FB:211:ARG:NH2	2:FB:243:GLN:OE1	2.31	0.54
5:FE:127:ILE:HD11	5:FE:132:ILE:HD11	1.90	0.54
7:FG:132:VAL:HG23	7:FG:232:THR:HB	1.89	0.54
10:FJ:43:ARG:NH1	10:FJ:46:CYS:SG	2.80	0.54
1:AA:1447:GLN:HG3	1:AA:1460:TYR:HB3	1.90	0.54
2:AB:532:HIS:ND1	2:AB:700:LEU:HD13	2.23	0.54
2:AB:790:ASN:OD1	2:AB:792:SER:N	2.41	0.54
2:AB:888:ILE:HG13	12:AL:54:ARG:O	2.08	0.54
3:AC:233:ILE:HD11	3:AC:291:LEU:HG	1.88	0.54
11:AK:125:MET:HA	11:AK:128:CYS:SG	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:10:ILE:HG22	13:AM:11:GLU:H	1.73	0.54
13:AM:77:VAL:HG21	14:AN:64:ILE:HD12	1.90	0.54
1:BA:713:VAL:HB	1:BA:738:ASN:HD21	1.73	0.54
2:BB:345:SER:HA	13:BM:113:ILE:CG1	2.38	0.54
2:BB:1060:VAL:HG21	7:BO:311:GLU:CD	2.28	0.54
5:BE:70:SER:OG	5:BE:71:LYS:N	2.40	0.54
7:BG:29:ASP:C	7:BG:31:LYS:H	2.11	0.54
1:CA:102:CYS:HB2	1:CA:109:ARG:HG2	1.90	0.54
1:CA:752:LYS:HG3	1:CA:768:GLU:HA	1.90	0.54
2:CB:190:ILE:HG12	2:CB:191:GLY:N	2.23	0.54
14:CN:90:MET:O	14:CN:137:PHE:HB3	2.07	0.54
1:DA:1344:ILE:HG22	2:DB:334:PHE:HE2	1.72	0.54
2:DB:1060:VAL:HG22	2:DB:1061:LYS:N	2.23	0.54
2:DB:1157:GLN:HB3	2:DB:1168:VAL:HG12	1.89	0.54
7:DG:80:VAL:HG12	7:DG:82:LEU:HD23	1.90	0.54
8:DH:35:GLN:O	8:DH:127:GLY:HA2	2.07	0.54
12:DL:32:ALA:HB3	12:DL:55:ILE:HG13	1.88	0.54
13:DM:39:ASP:C	13:DM:53:LEU:HD12	2.28	0.54
1:EA:363:PRO:HB3	2:EB:1187:SER:OG	2.08	0.54
1:EA:1252:ASP:HA	1:EA:1255:CYS:SG	2.48	0.54
2:EB:262:PHE:CZ	2:EB:269:TYR:HB2	2.43	0.54
14:EN:55:LEU:O	14:EN:136:VAL:HG13	2.07	0.54
1:FA:624:TYR:O	1:FA:625:ASN:HB3	2.08	0.54
1:FA:1028:GLU:HB3	1:FA:1187:ILE:HD11	1.90	0.54
1:FA:1556:GLU:O	1:FA:1559:ARG:HB3	2.08	0.54
11:FK:128:CYS:O	11:FK:131:VAL:HB	2.07	0.54
1:AA:315:ILE:HG13	1:AA:319:GLU:HB2	1.89	0.54
1:AA:659:THR:HG23	1:AA:664:SER:O	2.06	0.54
1:AA:759:TYR:CE1	1:AA:913:PRO:HG3	2.42	0.54
1:AA:1294:MET:N	1:AA:1294:MET:SD	2.81	0.54
2:AB:960:ILE:O	2:AB:963:PHE:HB2	2.08	0.54
4:AD:22:ILE:H	7:AG:76:LYS:NZ	2.05	0.54
5:AE:28:TYR:HA	5:AE:64:PRO:HA	1.89	0.54
1:BA:854:GLY:O	1:BA:974:THR:HB	2.07	0.54
1:BA:1335:LYS:HD2	1:BA:1338:ARG:NH2	2.23	0.54
4:BD:22:ILE:CD1	7:BG:45:LEU:HA	2.37	0.54
2:CB:52:LEU:HD22	2:CB:61:LEU:HD21	1.89	0.54
1:DA:512:THR:O	1:DA:516:ILE:HB	2.08	0.54
1:DA:850:SER:O	1:DA:852:ASP:N	2.41	0.54
1:DA:1324:LEU:HD22	1:DA:1492:ILE:HG13	1.90	0.54
1:EA:499:PRO:HG3	1:EA:609:PRO:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:280:LEU:HD12	2:EB:371:PHE:HD1	1.72	0.54
1:FA:1263:LEU:HG	1:FA:1267:ILE:HD11	1.90	0.54
1:FA:1272:VAL:O	1:FA:1273:THR:OG1	2.22	0.54
2:FB:52:LEU:HB3	2:FB:61:LEU:CD1	2.38	0.54
2:FB:1002:LYS:HZ2	14:FN:166:LEU:HD13	1.71	0.54
7:FG:82:LEU:HG	7:FG:124:VAL:HA	1.89	0.54
8:FH:116:TYR:HB2	8:FH:123:MET:SD	2.48	0.54
13:FM:113:ILE:O	13:FM:113:ILE:HG22	2.07	0.54
1:AA:189:VAL:O	1:AA:193:ILE:HG13	2.08	0.54
1:AA:214:ASP:OD2	5:AE:177:ARG:NH2	2.40	0.54
1:AA:1022:CYS:HA	1:AA:1615:TYR:HH	1.73	0.54
1:AA:1022:CYS:SG	1:AA:1615:TYR:OH	2.64	0.54
1:AA:1117:SER:O	1:AA:1117:SER:OG	2.19	0.54
2:AB:472:SER:OG	2:AB:473:GLN:N	2.40	0.54
5:AE:133:GLU:HB3	5:AE:135:PHE:CE1	2.41	0.54
10:AJ:10:CYS:SG	10:AJ:43:ARG:NH1	2.81	0.54
12:AL:30:ILE:O	12:AL:57:LEU:HD12	2.08	0.54
1:BA:522:ALA:HB1	1:BA:532:GLY:HA2	1.90	0.54
1:BA:611:GLU:CD	1:BA:615:ARG:HD2	2.28	0.54
1:BA:956:ARG:HG2	1:BA:979:GLY:O	2.07	0.54
1:BA:1262:LEU:HD12	1:BA:1264:SER:OG	2.08	0.54
3:BC:233:ILE:HD11	3:BC:291:LEU:HG	1.90	0.54
9:BI:89:CYS:SG	9:BI:117:CYS:SG	3.06	0.54
1:CA:472:MET:SD	1:CA:1025:LYS:NZ	2.61	0.54
1:CA:758:GLU:O	1:CA:760:TRP:N	2.40	0.54
2:CB:301:PHE:HD1	2:CB:302:LEU:HD23	1.72	0.54
4:CD:47:LYS:HD3	4:CD:82:LEU:HD13	1.89	0.54
7:CG:82:LEU:HG	7:CG:124:VAL:HA	1.89	0.54
1:DA:480:ALA:HB2	2:DB:1046:VAL:HG23	1.89	0.54
1:DA:693:GLN:O	1:DA:696:ILE:HB	2.08	0.54
1:DA:697:TYR:HE1	1:DA:702:PRO:HD3	1.74	0.54
1:DA:701:ARG:O	1:DA:704:ASP:HB2	2.07	0.54
1:DA:782:ASP:OD1	1:DA:783:LYS:N	2.41	0.54
1:DA:1555:VAL:HG11	5:DE:178:ILE:HD13	1.90	0.54
2:DB:105:ALA:O	2:DB:135:GLY:HA3	2.07	0.54
2:DB:586:VAL:HB	2:DB:593:ILE:HG22	1.90	0.54
2:EB:46:ILE:HG22	2:EB:50:ASN:HD21	1.73	0.54
2:EB:209:GLN:OE1	2:EB:237:ARG:HB2	2.08	0.54
2:EB:380:LYS:HG3	2:EB:637:TYR:CD2	2.43	0.54
5:EE:127:ILE:HD11	5:EE:132:ILE:HD11	1.89	0.54
8:EH:15:VAL:HG22	8:EH:26:ILE:HG12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:18:ILE:HA	2:FB:1193:GLY:O	2.08	0.54
1:FA:123:ARG:HD3	1:FA:337:TYR:CE1	2.43	0.54
1:FA:477:ASN:OD1	2:FB:1049:THR:HG23	2.07	0.54
2:FB:1186:ASP:O	2:FB:1190:SER:OG	2.27	0.54
5:FE:70:SER:OG	5:FE:71:LYS:N	2.39	0.54
9:FI:101:LEU:HD11	9:FI:122:ARG:HH22	1.73	0.54
13:FM:77:VAL:HG21	14:FN:64:ILE:HD12	1.90	0.54
1:AA:1553:TYR:HD1	5:AE:144:ILE:HB	1.73	0.53
2:AB:286:ARG:HD2	9:AI:9:PHE:CG	2.43	0.53
2:AB:428:VAL:O	2:AB:432:ILE:HD12	2.08	0.53
5:AE:22:MET:HA	5:AE:187:TYR:CZ	2.43	0.53
1:BA:499:PRO:HG3	1:BA:609:PRO:HA	1.90	0.53
1:BA:1245:ASP:N	1:BA:1245:ASP:OD2	2.34	0.53
1:BA:1292:ILE:HD12	1:BA:1292:ILE:O	2.08	0.53
1:BA:1545:ASP:OD1	1:BA:1546:VAL:N	2.36	0.53
2:BB:1048:SER:OG	2:BB:1049:THR:N	2.39	0.53
7:BG:93:ASP:HB2	7:BG:104:LEU:HD12	1.91	0.53
9:BI:23:VAL:HG21	9:BI:28:VAL:HG13	1.90	0.53
1:CA:1244:ASN:HA	1:CA:1517:ARG:HH11	1.73	0.53
2:CB:903:ILE:N	2:CB:903:ILE:HD12	2.23	0.53
5:CE:147:HIS:HB3	5:CE:150:VAL:HG23	1.89	0.53
7:CG:139:ILE:CD1	7:CG:140:GLN:H	2.20	0.53
8:CH:38:LEU:HD12	8:CH:124:ARG:O	2.07	0.53
1:DA:30:LYS:NZ	1:DA:51:ASP:OD2	2.24	0.53
7:DG:29:ASP:O	7:DG:31:LYS:N	2.41	0.53
14:DN:26:PRO:HB2	14:DN:29:PHE:CD1	2.42	0.53
1:EA:61:LEU:HG	1:EA:67:LEU:O	2.09	0.53
1:EA:555:LYS:O	1:EA:558:ALA:HB3	2.08	0.53
1:EA:1621:PHE:O	1:EA:1624:LYS:HB2	2.08	0.53
2:EB:170:CYS:SG	2:EB:171:HIS:N	2.80	0.53
1:FA:399:LEU:CD1	7:FO:270:LEU:HB3	2.37	0.53
1:FA:1659:LYS:HA	7:FG:104:LEU:HD23	1.90	0.53
2:FB:575:HIS:NE2	13:FM:76:TYR:OH	2.38	0.53
8:FH:13:SER:N	8:FH:27:GLU:O	2.34	0.53
8:FH:35:GLN:O	8:FH:127:GLY:HA2	2.08	0.53
1:AA:58:LEU:HD11	7:AO:295:LEU:HD21	1.91	0.53
1:AA:974:THR:O	1:AA:974:THR:OG1	2.21	0.53
1:AA:1216:THR:HG23	1:AA:1234:LYS:HD2	1.89	0.53
11:AK:75:ALA:O	11:AK:79:VAL:HG23	2.08	0.53
13:AM:58:GLU:HG2	13:AM:59:ARG:N	2.23	0.53
1:BA:943:ILE:HA	1:BA:986:PHE:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:275:MET:SD	2:BB:330:LEU:HD21	2.47	0.53
2:BB:558:VAL:HA	2:BB:561:ILE:HG13	1.91	0.53
6:BF:102:SER:HB3	6:BF:117:PRO:HB3	1.89	0.53
5:CE:40:GLU:HA	5:CE:43:LYS:HE3	1.91	0.53
9:CI:2:SER:O	9:CI:9:PHE:N	2.35	0.53
13:CM:21:VAL:HB	14:CN:109:LEU:HD11	1.91	0.53
1:DA:816:LEU:HG	1:DA:817:PHE:N	2.24	0.53
1:DA:966:LEU:HD12	1:DA:967:PRO:HD2	1.90	0.53
1:DA:1556:GLU:O	1:DA:1559:ARG:HB3	2.08	0.53
2:DB:533:THR:OG1	2:DB:534:PRO:HD2	2.08	0.53
7:DG:229:LEU:HD12	7:DG:230:ARG:H	1.72	0.53
3:EC:197:ARG:HG2	10:EJ:61:LEU:HD22	1.90	0.53
3:EC:227:TYR:HA	3:EC:299:ILE:O	2.08	0.53
4:ED:16:LEU:O	7:EG:64:GLN:NE2	2.41	0.53
5:EE:39:LEU:O	5:EE:42:PHE:HB3	2.08	0.53
10:EJ:54:VAL:HG12	10:EJ:56:LEU:HB2	1.88	0.53
13:EM:10:ILE:HG22	13:EM:11:GLU:N	2.24	0.53
1:FA:39:ASP:OD2	1:FA:43:HIS:HB2	2.08	0.53
1:FA:1095:LEU:CD2	1:FA:1134:GLY:HA3	2.38	0.53
1:FA:1170:MET:HA	1:FA:1173:LYS:HB3	1.90	0.53
2:FB:416:LYS:HD2	2:FB:460:LYS:HD2	1.89	0.53
2:FB:902:SER:OG	2:FB:903:ILE:N	2.41	0.53
2:AB:934:ILE:HG21	3:AC:73:SER:CB	2.38	0.53
7:AG:149:ILE:HG22	7:AG:150:HIS:CD2	2.32	0.53
8:AH:94:ASP:N	8:AH:94:ASP:OD1	2.40	0.53
9:AI:38:PRO:HG2	9:AI:41:GLN:HB2	1.90	0.53
14:AN:75:GLU:H	14:AN:91:ASP:CB	2.22	0.53
2:BB:242:ASP:OD2	2:BB:414:LYS:NZ	2.26	0.53
2:BB:718:GLN:CD	2:BB:920:ARG:HA	2.29	0.53
2:BB:939:SER:OG	2:BB:943:ILE:N	2.40	0.53
4:BD:89:LEU:HD23	4:BD:92:ILE:HD12	1.90	0.53
10:BJ:54:VAL:HG12	10:BJ:56:LEU:HB2	1.89	0.53
13:BM:81:PHE:HB2	13:BM:88:ILE:HD13	1.89	0.53
14:BN:69:SER:HB3	8:DH:75:ALA:HB2	1.90	0.53
7:BO:272:ILE:HG13	7:BO:274:SER:H	1.73	0.53
1:CA:1016:SER:CB	1:CA:1019:LEU:HD22	2.36	0.53
2:CB:66:LYS:C	2:CB:68:ILE:H	2.09	0.53
2:CB:276:ILE:O	2:CB:280:LEU:HG	2.09	0.53
2:CB:532:HIS:ND1	2:CB:700:LEU:HD13	2.23	0.53
5:CE:70:SER:OG	5:CE:71:LYS:N	2.41	0.53
5:CE:133:GLU:HB3	5:CE:135:PHE:CE1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:65:SER:OG	9:CI:66:VAL:N	2.40	0.53
10:CJ:2:ILE:HD12	10:CJ:57:ILE:HD13	1.89	0.53
10:CJ:31:ASP:OD1	10:CJ:34:THR:HB	2.08	0.53
10:CJ:54:VAL:HG12	10:CJ:56:LEU:HB2	1.90	0.53
1:DA:111:LYS:O	1:DA:115:VAL:HG23	2.08	0.53
1:DA:591:ARG:HB2	1:DA:633:MET:HG2	1.90	0.53
1:DA:671:GLN:HA	2:DB:952:HIS:HD2	1.73	0.53
1:DA:1647:ASN:HD22	1:DA:1648:ASN:N	2.05	0.53
3:DC:84:TYR:HB3	12:DL:64:LEU:HD11	1.89	0.53
1:EA:882:ILE:HD13	1:EA:888:LYS:HB3	1.89	0.53
1:EA:1104:TYR:HE2	1:EA:1119:LYS:HD2	1.72	0.53
2:EB:66:LYS:C	2:EB:68:ILE:H	2.11	0.53
2:EB:338:PHE:CZ	2:EB:353:VAL:HG13	2.44	0.53
3:EC:83:VAL:HG22	3:EC:206:ALA:HB1	1.89	0.53
3:EC:97:LEU:O	3:EC:100:ARG:HB2	2.08	0.53
9:EI:94:MET:HG2	9:EI:114:CYS:HA	1.89	0.53
13:EM:57:ASN:O	13:EM:103:LYS:NZ	2.41	0.53
14:EN:110:LEU:CD2	14:EN:121:ILE:HA	2.38	0.53
1:FA:349:LEU:HD12	1:FA:351:LYS:HE3	1.89	0.53
1:FA:936:SER:O	1:FA:940:VAL:HG23	2.07	0.53
1:FA:1559:ARG:HD2	1:FA:1587:ASP:OD1	2.08	0.53
2:FB:307:GLU:OE2	2:FB:311:ARG:NH1	2.37	0.53
2:FB:662:ASP:OD1	2:FB:663:ILE:N	2.41	0.53
2:FB:787:MET:O	2:FB:788:ILE:HD13	2.08	0.53
5:FE:22:MET:HA	5:FE:187:TYR:CZ	2.43	0.53
2:AB:302:LEU:HD11	2:AB:379:ARG:CZ	2.39	0.53
2:AB:468:GLY:O	2:AB:482:SER:HA	2.08	0.53
2:AB:714:ARG:NH1	9:AI:105:ASP:HA	2.24	0.53
2:AB:1160:GLU:HG2	2:AB:1166:LYS:HG2	1.90	0.53
5:AE:33:GLU:O	5:AE:36:GLU:N	2.41	0.53
2:BB:1198:TYR:CD2	2:BB:1198:TYR:N	2.75	0.53
1:CA:513:ALA:O	1:CA:516:ILE:HG22	2.08	0.53
1:CA:763:GLY:HA3	8:CH:25:ARG:NE	2.23	0.53
1:CA:1105:ARG:NH1	1:CA:1138:GLU:OE1	2.39	0.53
1:CA:1238:MET:HG3	1:CA:1524:VAL:HG22	1.90	0.53
2:CB:209:GLN:OE1	2:CB:237:ARG:HB2	2.08	0.53
2:CB:888:ILE:HG13	12:CL:55:ILE:HA	1.89	0.53
5:CE:98:ILE:O	5:CE:102:GLU:HB2	2.09	0.53
4:DD:89:LEU:O	4:DD:92:ILE:N	2.37	0.53
1:EA:809:VAL:HG13	1:EA:813:LEU:HD11	1.90	0.53
1:EA:1019:LEU:HD21	1:EA:1194:GLY:HA2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:242:ASP:OD2	2:EB:414:LYS:NZ	2.35	0.53
2:EB:280:LEU:O	2:EB:323:ARG:NH2	2.42	0.53
2:EB:584:CYS:HB2	2:EB:598:HIS:ND1	2.23	0.53
2:EB:986:PHE:CD1	14:EN:160:VAL:HG21	2.44	0.53
3:EC:70:ILE:O	3:EC:72:ILE:N	2.41	0.53
5:EE:98:ILE:O	5:EE:102:GLU:HB2	2.07	0.53
11:EK:46:LYS:HE3	11:EK:66:VAL:O	2.08	0.53
14:EN:26:PRO:HB2	14:EN:29:PHE:CD1	2.44	0.53
1:FA:718:THR:OG1	1:FA:730:GLN:OE1	2.26	0.53
1:FA:928:MET:HG2	2:FB:955:PRO:HG3	1.90	0.53
1:FA:1545:ASP:CG	1:FA:1546:VAL:N	2.61	0.53
3:FC:97:LEU:O	3:FC:100:ARG:HB2	2.08	0.53
6:FF:70:LYS:HG3	7:FG:94:PRO:O	2.07	0.53
8:FH:30:SER:HB3	8:FH:36:CYS:HB3	1.91	0.53
13:FM:58:GLU:HG2	13:FM:59:ARG:N	2.22	0.53
1:AA:552:GLU:HB3	2:BB:837:LEU:HD12	1.90	0.53
1:AA:597:LYS:HB2	2:AB:1082:HIS:CE1	2.44	0.53
1:AA:892:LEU:HG	1:AA:893:ASP:N	2.24	0.53
1:AA:1092:GLU:O	1:AA:1094:ALA:N	2.40	0.53
1:AA:1162:ASN:H	1:AA:1165:LYS:HD2	1.72	0.53
2:AB:504:HIS:HB3	2:AB:542:LEU:HD23	1.90	0.53
3:AC:223:SER:HB2	3:AC:303:GLU:HB3	1.90	0.53
3:AC:314:PHE:O	3:AC:317:SER:OG	2.20	0.53
12:AL:33:GLU:HG2	12:AL:55:ILE:HG12	1.89	0.53
1:BA:9:SER:OG	4:BD:20:VAL:HG21	2.08	0.53
1:BA:111:LYS:O	1:BA:115:VAL:HG23	2.08	0.53
1:BA:480:ALA:HB2	2:BB:1046:VAL:HA	1.91	0.53
1:BA:513:ALA:O	1:BA:516:ILE:HG22	2.09	0.53
1:BA:1332:GLU:O	1:BA:1336:GLN:HG2	2.09	0.53
1:BA:1440:ASN:N	1:BA:1440:ASN:OD1	2.41	0.53
2:BB:18:THR:HA	2:BB:21:ARG:HH21	1.73	0.53
2:BB:392:ASP:HB3	2:BB:399:HIS:CE1	2.43	0.53
2:BB:604:ILE:O	2:BB:608:LEU:HG	2.09	0.53
3:BC:95:GLU:HG2	3:BC:96:VAL:N	2.24	0.53
13:BM:80:LEU:HD11	14:BN:39:PRO:HD2	1.90	0.53
1:CA:211:THR:O	1:CA:214:ASP:N	2.33	0.53
1:CA:426:ALA:CA	7:CO:273:VAL:HG21	2.38	0.53
2:CB:975:HIS:NE2	2:CB:1003:ALA:HB2	2.23	0.53
3:CC:228:ARG:NH1	14:CN:173:THR:H	2.06	0.53
1:DA:1546:VAL:O	1:DA:1549:VAL:N	2.42	0.53
2:DB:251:HIS:HB2	2:DB:259:THR:OG1	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:772:VAL:HB	2:DB:946:ASP:OD2	2.09	0.53
8:DH:14:GLU:HG2	8:DH:15:VAL:N	2.23	0.53
1:EA:985:ARG:HG2	1:EA:988:SER:H	1.74	0.53
2:EB:775:VAL:H	2:EB:1028:VAL:HG12	1.73	0.53
1:FA:1016:SER:CB	1:FA:1019:LEU:HD22	2.39	0.53
2:FB:1037:ARG:O	2:FB:1039:MET:N	2.40	0.53
3:FC:37:LYS:HD2	11:FK:130:VAL:HG22	1.90	0.53
1:AA:756:LYS:HG2	9:AI:85:LYS:NZ	2.24	0.53
1:AA:1022:CYS:HG	1:AA:1615:TYR:HH	1.56	0.53
10:AJ:2:ILE:HG12	10:AJ:3:VAL:H	1.71	0.53
6:BF:58:PHE:HZ	7:BG:117:TRP:CH2	2.27	0.53
14:BN:90:MET:O	14:BN:137:PHE:HB3	2.09	0.53
1:CA:342:ARG:CZ	1:CA:342:ARG:HB2	2.38	0.53
1:CA:1621:PHE:CD1	1:CA:1624:LYS:HE2	2.44	0.53
3:CC:86:PHE:CE2	3:CC:205:LYS:HE3	2.44	0.53
7:CG:72:LYS:O	7:CG:81:VAL:HG23	2.09	0.53
1:DA:624:TYR:O	1:DA:625:ASN:HB3	2.08	0.53
1:DA:874:GLU:O	1:DA:878:ARG:HB2	2.08	0.53
1:DA:1239:THR:HG23	1:DA:1520:VAL:HG13	1.91	0.53
2:DB:301:PHE:HD1	2:DB:302:LEU:HD23	1.73	0.53
2:DB:917:PHE:HD2	2:DB:1035:ARG:HA	1.73	0.53
7:DG:82:LEU:HG	7:DG:124:VAL:HA	1.90	0.53
14:DN:31:LYS:O	14:DN:33:LYS:N	2.42	0.53
1:EA:7:VAL:HG12	1:EA:9:SER:H	1.72	0.53
1:EA:896:THR:HG21	1:EA:956:ARG:NH1	2.24	0.53
1:EA:987:TYR:C	1:EA:987:TYR:CD2	2.81	0.53
1:EA:1596:LEU:HD22	1:EA:1602:GLY:HA2	1.90	0.53
2:EB:885:VAL:HG11	12:EL:58:LYS:HB3	1.89	0.53
3:EC:86:PHE:CE2	3:EC:205:LYS:HE3	2.43	0.53
7:EG:10:ASN:HB2	7:EG:14:ALA:HB3	1.91	0.53
8:EH:12:VAL:HA	8:EH:28:ALA:HB2	1.91	0.53
14:EN:55:LEU:HB2	14:EN:133:PHE:CZ	2.43	0.53
14:EN:85:HIS:HB3	14:EN:87:TYR:CE1	2.44	0.53
1:FA:3:ILE:HA	7:FG:111:THR:HG22	1.91	0.53
1:FA:692:TYR:O	1:FA:696:ILE:HG12	2.08	0.53
14:FN:75:GLU:H	14:FN:91:ASP:CB	2.20	0.53
1:AA:993:GLN:CD	2:AB:676:VAL:HG21	2.28	0.53
1:AA:1269:LYS:HD2	1:AA:1271:ILE:HD11	1.89	0.53
1:BA:697:TYR:HE1	1:BA:702:PRO:CD	2.22	0.53
1:BA:836:THR:OG1	1:BA:837:ALA:N	2.42	0.53
2:BB:474:SER:C	2:BB:476:LEU:H	2.12	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:504:HIS:HB3	2:BB:542:LEU:HD23	1.91	0.53
2:BB:612:LYS:N	2:BB:620:LEU:HD21	2.23	0.53
2:BB:772:VAL:HG12	2:BB:946:ASP:H	1.74	0.53
2:BB:1055:LEU:HD11	7:BO:312:GLU:HG3	1.91	0.53
7:BG:149:ILE:HG22	7:BG:150:HIS:CD2	2.33	0.53
1:CA:1108:HIS:CG	1:CA:1117:SER:HB3	2.44	0.53
1:CA:1117:SER:C	1:CA:1119:LYS:H	2.11	0.53
2:CB:397:THR:HA	2:CB:400:GLN:OE1	2.08	0.53
2:CB:904:LYS:C	2:CB:905:TYR:HD1	2.11	0.53
2:CB:1151:ILE:HG22	2:CB:1152:PHE:H	1.73	0.53
13:CM:89:GLN:O	13:CM:90:LEU:HD23	2.08	0.53
1:DA:555:LYS:O	1:DA:558:ALA:HB3	2.08	0.53
1:DA:850:SER:O	1:DA:853:THR:N	2.36	0.53
1:DA:1344:ILE:HG23	2:DB:271:VAL:HG22	1.90	0.53
2:DB:408:LEU:HA	2:DB:411:MET:HG3	1.89	0.53
7:DG:66:LEU:HD11	7:DG:87:LEU:HD22	1.91	0.53
8:DH:12:VAL:HA	8:DH:28:ALA:HB2	1.90	0.53
14:DN:90:MET:O	14:DN:137:PHE:HB3	2.09	0.53
2:EB:470:LEU:HD22	2:EB:484:TYR:HE1	1.74	0.53
2:EB:986:PHE:CD2	2:EB:992:PRO:HG3	2.44	0.53
2:EB:1198:TYR:H	2:EB:1198:TYR:HD2	1.57	0.53
1:FA:545:SER:O	1:FA:545:SER:OG	2.25	0.53
1:FA:1019:LEU:HD21	1:FA:1194:GLY:CA	2.38	0.53
1:FA:1289:SER:HA	1:FA:1475:GLU:OE1	2.08	0.53
5:FE:40:GLU:HA	5:FE:43:LYS:HE3	1.91	0.53
8:FH:38:LEU:HD11	8:FH:123:MET:HG3	1.90	0.53
1:AA:835:LEU:HG	1:AA:985:ARG:NH1	2.21	0.53
1:AA:885:ASP:O	1:AA:889:SER:HB3	2.07	0.53
1:AA:1217:LEU:HD13	1:AA:1573:TYR:CE1	2.41	0.53
1:AA:1245:ASP:OD2	1:AA:1245:ASP:N	2.37	0.53
2:AB:429:ARG:O	2:AB:433:ASN:ND2	2.32	0.53
2:AB:501:ARG:HG3	2:AB:699:ILE:CD1	2.39	0.53
2:AB:983:PRO:HB2	2:AB:984:TRP:CE3	2.44	0.53
6:AF:119:ARG:HA	6:AF:122:MET:HG3	1.90	0.53
1:BA:90:PHE:HE1	1:BA:1623:THR:HG23	1.74	0.53
1:BA:1291:VAL:HA	1:BA:1473:LYS:HB2	1.90	0.53
1:BA:1326:GLU:HG2	1:BA:1456:PHE:HD2	1.74	0.53
2:BB:532:HIS:CD2	2:BB:700:LEU:HD22	2.44	0.53
2:BB:625:GLU:HB2	2:BB:643:PHE:O	2.08	0.53
2:BB:843:ASP:OD1	2:BB:845:LEU:HG	2.09	0.53
2:BB:987:ASN:O	2:BB:989:ASP:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:BJ:31:ASP:OD1	10:BJ:34:THR:HB	2.08	0.53
1:CA:697:TYR:HE1	1:CA:702:PRO:HD3	1.72	0.53
2:CB:52:LEU:HB3	2:CB:61:LEU:CD1	2.38	0.53
2:CB:459:SER:O	2:CB:462:GLN:N	2.42	0.53
2:CB:757:TYR:CZ	2:CB:762:MET:HB3	2.44	0.53
7:CG:29:ASP:C	7:CG:31:LYS:H	2.11	0.53
1:DA:1344:ILE:HD13	2:DB:329:TYR:CE2	2.44	0.53
1:DA:1463:ASP:HB2	1:DA:1469:TRP:CD1	2.44	0.53
2:DB:244:THR:HG21	2:DB:414:LYS:HD3	1.90	0.53
2:DB:462:GLN:O	2:DB:466:SER:N	2.42	0.53
2:DB:470:LEU:HD22	2:DB:484:TYR:HE1	1.73	0.53
8:DH:94:ASP:N	8:DH:94:ASP:OD1	2.42	0.53
1:EA:1049:MET:HG2	1:EA:1054:ALA:HB2	1.90	0.53
2:EB:301:PHE:CD1	2:EB:302:LEU:HD23	2.43	0.53
3:EC:65:ASN:OD1	3:EC:68:ARG:NH1	2.42	0.53
9:EI:10:CYS:HB3	9:EI:13:CYS:SG	2.49	0.53
10:EJ:2:ILE:HD12	10:EJ:57:ILE:HD13	1.91	0.53
1:FA:67:LEU:HD13	1:FA:71:PHE:HB3	1.90	0.53
1:FA:211:THR:O	1:FA:214:ASP:N	2.39	0.53
1:FA:678:VAL:O	1:FA:681:THR:N	2.41	0.53
1:FA:1092:GLU:O	1:FA:1095:LEU:N	2.39	0.53
1:FA:1661:PRO:HA	7:FG:102:GLU:HA	1.91	0.53
2:FB:665:GLY:N	2:FB:668:GLU:OE1	2.41	0.53
3:FC:147:PRO:O	3:FC:149:GLY:N	2.42	0.53
3:FC:277:ARG:NH1	3:FC:291:LEU:HD13	2.24	0.53
1:AA:1019:LEU:HD21	1:AA:1194:GLY:HA2	1.90	0.53
1:AA:1620:GLN:O	1:AA:1623:THR:N	2.41	0.53
2:AB:474:SER:C	2:AB:476:LEU:H	2.12	0.53
3:AC:59:ILE:HG12	3:AC:60:ASP:N	2.24	0.53
3:AC:248:GLN:HG3	3:AC:256:ILE:O	2.09	0.53
5:AE:41:ASP:OD1	5:AE:41:ASP:N	2.23	0.53
14:AN:85:HIS:HB3	14:AN:87:TYR:CE1	2.44	0.53
1:BA:1662:ASN:HB3	7:BG:57:PRO:HD2	1.89	0.53
2:BB:628:TYR:HD1	2:BB:640:LEU:HD13	1.72	0.53
2:BB:675:ALA:O	2:BB:690:GLU:HG2	2.09	0.53
2:BB:744:LEU:HD11	2:BB:799:GLY:HA2	1.89	0.53
2:BB:825:PHE:HE2	2:BB:899:GLN:HA	1.74	0.53
1:CA:748:ASN:ND2	1:CA:1072:ASN:OD1	2.42	0.53
1:CA:1240:LEU:HD23	1:CA:1541:ILE:HG23	1.90	0.53
1:CA:1608:SER:OG	1:CA:1636:SER:OG	2.27	0.53
2:CB:72:VAL:HA	2:CB:95:LEU:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:250:LEU:HD11	2:CB:378:ILE:HD13	1.91	0.53
2:CB:962:MET:O	2:CB:965:GLU:N	2.42	0.53
11:CK:60:SER:HG	11:CK:104:ARG:HH21	1.57	0.53
2:DB:655:TYR:HD1	2:DB:688:HIS:HE2	1.57	0.53
4:DD:24:ALA:HA	7:DG:43:ILE:HA	1.90	0.53
1:EA:701:ARG:O	1:EA:704:ASP:HB2	2.09	0.53
1:EA:763:GLY:HA3	8:EH:25:ARG:NE	2.24	0.53
1:EA:1620:GLN:O	1:EA:1623:THR:N	2.41	0.53
7:EG:37:CYS:HB3	7:EG:125:TRP:HD1	1.73	0.53
10:EJ:6:ARG:HB3	10:EJ:11:GLY:O	2.07	0.53
1:FA:323:ILE:O	1:FA:327:VAL:HG23	2.09	0.53
2:FB:891:GLU:O	2:FB:894:LYS:N	2.31	0.53
3:FC:216:HIS:O	3:FC:218:LYS:N	2.42	0.53
10:FJ:2:ILE:HG12	10:FJ:3:VAL:H	1.73	0.53
10:FJ:45:CYS:O	10:FJ:49:MET:HG2	2.09	0.53
1:AA:39:ASP:OD2	1:AA:43:HIS:HB2	2.08	0.53
1:AA:1226:VAL:HG12	1:AA:1227:MET:HG2	1.91	0.53
1:AA:1555:VAL:CG1	5:AE:178:ILE:HD13	2.39	0.53
13:AM:16:GLN:HG3	13:AM:17:ASP:H	1.74	0.53
5:BE:177:ARG:HD3	5:BE:215:MET:HB2	1.91	0.53
10:BJ:2:ILE:HD12	10:BJ:57:ILE:HD13	1.91	0.53
7:BO:298:PRO:O	7:BO:310:TYR:OH	2.27	0.53
1:CA:864:LEU:HD11	1:CA:875:LEU:HA	1.91	0.53
1:CA:968:SER:CB	2:CB:676:VAL:HG23	2.39	0.53
1:CA:1590:THR:OG1	5:CE:212:ARG:NH2	2.42	0.53
8:CH:5:LEU:CD2	8:CH:135:LEU:HD23	2.35	0.53
1:DA:968:SER:HB2	2:DB:676:VAL:HG23	1.88	0.53
1:DA:1016:SER:CB	1:DA:1019:LEU:HD22	2.38	0.53
1:DA:1530:TRP:O	5:DE:14:ARG:NH2	2.41	0.53
2:DB:662:ASP:OD1	2:DB:663:ILE:N	2.42	0.53
8:DH:116:TYR:HB2	8:DH:123:MET:SD	2.49	0.53
7:DO:282:ASP:O	7:DO:286:ILE:HG12	2.09	0.53
1:EA:323:ILE:O	1:EA:327:VAL:HG23	2.09	0.53
1:EA:680:LEU:HD12	1:EA:820:TYR:CD1	2.44	0.53
1:EA:1609:SER:O	1:EA:1612:LYS:HB2	2.09	0.53
9:EI:122:ARG:HG3	9:EI:122:ARG:O	2.09	0.53
1:FA:457:LYS:C	1:FA:459:ALA:H	2.12	0.53
1:FA:864:LEU:HD11	1:FA:875:LEU:HA	1.89	0.53
1:FA:1073:TYR:CZ	1:FA:1077:LEU:HD22	2.44	0.53
1:FA:1559:ARG:O	1:FA:1563:VAL:HG23	2.09	0.53
2:FB:628:TYR:HD1	2:FB:640:LEU:HD13	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FC:70:ILE:O	3:FC:72:ILE:N	2.42	0.53
5:FE:80:VAL:HG22	5:FE:109:ILE:HB	1.91	0.53
1:AA:720:PHE:CZ	8:AH:141:TYR:HE2	2.27	0.52
1:AA:1024:THR:O	1:AA:1028:GLU:N	2.41	0.52
1:AA:1512:PRO:HB3	1:AA:1517:ARG:HA	1.91	0.52
2:AB:105:ALA:O	2:AB:135:GLY:HA3	2.09	0.52
7:AG:139:ILE:CD1	7:AG:140:GLN:H	2.21	0.52
8:AH:38:LEU:HD12	8:AH:124:ARG:O	2.08	0.52
10:AJ:41:LEU:HD22	10:AJ:46:CYS:HB3	1.89	0.52
3:BC:42:VAL:HG22	3:BC:56:LEU:HD22	1.91	0.52
5:BE:143:ASN:O	5:BE:145:THR:N	2.41	0.52
1:CA:681:THR:HG21	1:CA:781:LEU:HG	1.90	0.52
2:CB:362:LEU:HB2	2:CB:370:LYS:HE2	1.91	0.52
3:CC:79:ALA:HB3	3:CC:219:PHE:CE1	2.44	0.52
3:CC:216:HIS:CE1	3:CC:218:LYS:HB3	2.44	0.52
1:DA:39:ASP:OD2	1:DA:43:HIS:HB2	2.09	0.52
1:DA:372:LYS:HZ1	7:DO:297:LEU:HD11	1.75	0.52
1:DA:1102:LEU:HD22	1:DA:1141:GLN:HE21	1.74	0.52
1:DA:1263:LEU:O	1:DA:1265:GLU:N	2.42	0.52
3:DC:100:ARG:HH12	3:DC:193:LEU:HA	1.73	0.52
4:DD:82:LEU:HD22	7:DG:67:ASN:HD22	1.74	0.52
14:DN:148:ILE:HD13	14:DN:150:TYR:OH	2.09	0.52
2:EB:164:MET:O	2:EB:167:SER:OG	2.14	0.52
2:EB:459:SER:O	2:EB:462:GLN:N	2.42	0.52
6:EF:100:GLN:HG2	7:EG:112:PRO:CB	2.38	0.52
1:FA:727:THR:OG1	1:FA:728:GLY:N	2.43	0.52
1:FA:1640:ARG:O	1:FA:1644:GLY:N	2.32	0.52
1:AA:670:ILE:HD13	1:AA:670:ILE:N	2.24	0.52
1:AA:699:CYS:O	1:AA:815:ARG:NH1	2.43	0.52
1:AA:1117:SER:C	1:AA:1119:LYS:H	2.13	0.52
2:AB:542:LEU:C	2:AB:543:ASN:HD22	2.12	0.52
2:AB:604:ILE:O	2:AB:608:LEU:HG	2.10	0.52
2:AB:848:ILE:HD12	2:AB:885:VAL:HG21	1.91	0.52
5:AE:48:ASP:O	5:AE:50:MET:N	2.42	0.52
7:AG:57:PRO:HG2	7:AG:58:LEU:H	1.74	0.52
10:AJ:36:LEU:HD11	10:AJ:51:LEU:HB2	1.91	0.52
1:BA:11:ILE:CG2	2:BB:1198:TYR:HB2	2.40	0.52
1:BA:20:THR:HG23	1:BA:23:GLU:HG3	1.91	0.52
1:BA:253:GLU:O	1:BA:312:SER:HA	2.09	0.52
1:BA:1216:THR:HG23	1:BA:1234:LYS:HD2	1.89	0.52
1:BA:1242:ILE:HD11	1:BA:1517:ARG:HB3	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:99:VAL:HG11	2:BB:139:LEU:HD13	1.91	0.52
4:BD:94:ARG:HD2	4:BD:99:LEU:HD13	1.91	0.52
12:BL:32:ALA:HB2	12:BL:57:LEU:HG	1.89	0.52
2:CB:251:HIS:HB2	2:CB:259:THR:OG1	2.08	0.52
2:CB:280:LEU:HD12	2:CB:371:PHE:HD1	1.75	0.52
2:CB:776:ILE:HD12	2:CB:777:SER:H	1.74	0.52
5:CE:43:LYS:O	5:CE:47:CYS:HB2	2.09	0.52
6:CF:136:ARG:O	6:CF:143:PHE:HB2	2.09	0.52
10:CJ:48:ARG:HB3	10:CJ:48:ARG:HH11	1.74	0.52
1:DA:976:ALA:HB1	1:DA:981:TYR:HB3	1.90	0.52
1:DA:1242:ILE:CD1	1:DA:1517:ARG:HB3	2.38	0.52
1:DA:1314:GLN:O	1:DA:1318:SER:HB3	2.09	0.52
2:DB:74:PHE:HD2	2:DB:91:LEU:HD22	1.75	0.52
2:DB:885:VAL:HA	2:DB:903:ILE:HG22	1.92	0.52
2:DB:1198:TYR:H	2:DB:1198:TYR:HD2	1.56	0.52
4:DD:33:THR:O	4:DD:36:VAL:HB	2.10	0.52
1:EA:176:THR:HA	1:EA:179:ASN:ND2	2.24	0.52
2:EB:744:LEU:HD12	2:EB:800:TYR:O	2.09	0.52
3:EC:83:VAL:HG12	3:EC:204:LEU:HD12	1.90	0.52
9:EI:72:LYS:HB2	9:EI:73:LYS:HE3	1.91	0.52
1:FA:9:SER:OG	4:FD:20:VAL:HG21	2.09	0.52
1:FA:512:THR:O	1:FA:516:ILE:HB	2.09	0.52
2:FB:903:ILE:N	2:FB:903:ILE:HD12	2.23	0.52
14:FN:31:LYS:O	14:FN:33:LYS:N	2.42	0.52
7:FO:267:ALA:C	7:FO:269:SER:H	2.12	0.52
1:AA:111:LYS:O	1:AA:115:VAL:HG23	2.09	0.52
1:AA:1454:HIS:HB2	1:AA:1457:ILE:HG13	1.92	0.52
1:AA:1555:VAL:HG13	1:AA:1556:GLU:N	2.24	0.52
1:BA:835:LEU:HG	1:BA:985:ARG:NH1	2.19	0.52
1:BA:1217:LEU:HD11	1:BA:1572:ARG:CD	2.38	0.52
1:BA:1344:ILE:HD13	2:BB:329:TYR:CE2	2.44	0.52
2:BB:627:GLY:H	2:BB:642:LEU:HD22	1.75	0.52
2:BB:687:THR:OG1	2:BB:688:HIS:ND1	2.42	0.52
14:BN:97:SER:HA	14:BN:104:LEU:O	2.08	0.52
1:CA:1066:PHE:HB3	1:CA:1147:PHE:CE2	2.44	0.52
2:CB:886:ASN:O	2:CB:902:SER:N	2.30	0.52
2:CB:998:GLU:O	2:CB:1001:ALA:N	2.42	0.52
3:CC:147:PRO:HG2	3:CC:150:SER:HB2	1.90	0.52
5:CE:177:ARG:CZ	5:CE:179:GLN:HE22	2.22	0.52
7:CG:57:PRO:HG2	7:CG:58:LEU:H	1.74	0.52
11:CK:60:SER:OG	11:CK:104:ARG:NH2	2.36	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:10:ILE:HB	14:CN:70:LEU:HD21	1.91	0.52
1:DA:920:PHE:CG	1:DA:921:PRO:HA	2.44	0.52
1:DA:1024:THR:O	1:DA:1028:GLU:N	2.43	0.52
1:DA:1237:GLN:HG2	1:DA:1544:ASN:HD22	1.74	0.52
2:DB:628:TYR:HD1	2:DB:640:LEU:HD13	1.74	0.52
9:DI:10:CYS:HB3	9:DI:13:CYS:SG	2.48	0.52
1:EA:349:LEU:HD12	1:EA:351:LYS:HE3	1.90	0.52
1:EA:718:THR:HG22	8:EH:98:TYR:O	2.10	0.52
1:EA:1027:LEU:HD21	1:EA:1588:MET:HG2	1.91	0.52
2:EB:244:THR:HG21	2:EB:414:LYS:HD3	1.90	0.52
2:EB:609:ARG:O	2:EB:612:LYS:HB3	2.10	0.52
2:EB:876:SER:O	2:EB:878:GLU:N	2.34	0.52
5:EE:87:SER:HA	5:EE:115:ASN:HB3	1.92	0.52
1:FA:58:LEU:HD11	7:FO:295:LEU:HD11	1.90	0.52
1:FA:674:ILE:O	1:FA:678:VAL:HG23	2.09	0.52
1:FA:808:LYS:O	1:FA:809:VAL:C	2.47	0.52
1:FA:1021:ARG:O	1:FA:1025:LYS:HB2	2.09	0.52
1:FA:1264:SER:HA	1:FA:1267:ILE:HD12	1.91	0.52
2:FB:854:GLU:HG3	2:FB:875:HIS:HA	1.92	0.52
2:FB:1157:GLN:HB3	2:FB:1168:VAL:HG12	1.92	0.52
1:AA:804:GLU:CD	1:AA:804:GLU:H	2.10	0.52
1:AA:966:LEU:HD12	1:AA:967:PRO:HD2	1.90	0.52
1:AA:1012:LYS:HE3	2:AB:515:THR:HG23	1.90	0.52
1:AA:1258:ILE:O	1:AA:1501:ILE:HG13	2.10	0.52
2:AB:301:PHE:HD1	2:AB:302:LEU:HD23	1.73	0.52
2:AB:713:PRO:HG3	9:AI:100:GLN:NE2	2.24	0.52
2:AB:1178:ILE:HD12	2:AB:1179:PRO:O	2.09	0.52
3:AC:100:ARG:HH12	3:AC:193:LEU:C	2.13	0.52
3:AC:289:VAL:HG12	3:AC:290:LYS:H	1.73	0.52
9:AI:2:SER:HA	9:AI:9:PHE:O	2.08	0.52
12:AL:38:LEU:HD12	12:AL:49:LYS:HD3	1.91	0.52
13:AM:41:TYR:CD2	14:AN:25:ILE:HD11	2.43	0.52
14:AN:55:LEU:HB2	14:AN:133:PHE:CZ	2.45	0.52
7:BG:40:ARG:HD3	7:BG:123:TYR:HE1	1.74	0.52
1:CA:875:LEU:O	1:CA:879:LEU:HG	2.09	0.52
1:CA:1073:TYR:CE1	1:CA:1077:LEU:HD22	2.45	0.52
1:CA:1463:ASP:HB2	1:CA:1469:TRP:CD1	2.44	0.52
10:CJ:43:ARG:O	10:CJ:47:ARG:HG3	2.08	0.52
11:CK:118:GLN:O	11:CK:121:LEU:N	2.43	0.52
13:CM:81:PHE:HB2	13:CM:88:ILE:HD13	1.92	0.52
1:DA:197:LEU:HD23	1:DA:202:THR:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:719:ILE:HG12	8:DH:97:MET:HG2	1.92	0.52
1:DA:1484:LEU:HG	2:DB:308:LEU:HD11	1.92	0.52
1:DA:1516:LYS:O	1:DA:1518:VAL:HB	2.09	0.52
2:DB:708:ASP:OD1	2:DB:708:ASP:N	2.41	0.52
2:DB:841:ASP:HB3	2:DB:843:ASP:OD1	2.09	0.52
2:DB:848:ILE:HD12	2:DB:885:VAL:HG21	1.91	0.52
3:DC:109:ASP:HB3	3:DC:112:MET:HE2	1.92	0.52
5:DE:40:GLU:HA	5:DE:43:LYS:HE3	1.91	0.52
7:DG:45:LEU:CD1	7:DG:118:CYS:HB2	2.39	0.52
2:EB:703:LEU:HD23	2:EB:754:ALA:HB3	1.91	0.52
3:EC:230:LEU:HD12	3:EC:231:PRO:HD2	1.91	0.52
5:EE:159:ASP:O	5:EE:163:GLU:HG2	2.09	0.52
7:EG:46:TYR:CD1	7:EG:117:TRP:CD1	2.98	0.52
1:FA:93:GLN:HB2	1:FA:355:PHE:HE2	1.73	0.52
1:FA:521:GLN:O	1:FA:524:ILE:HB	2.08	0.52
1:FA:855:ARG:NH1	1:FA:868:THR:O	2.42	0.52
1:FA:882:ILE:HD11	9:FI:67:VAL:HG11	1.90	0.52
2:FB:286:ARG:HG2	13:FM:27:PHE:CG	2.44	0.52
2:FB:359:LEU:HD22	2:FB:361:HIS:CE1	2.44	0.52
2:FB:744:LEU:HD11	2:FB:799:GLY:HA2	1.91	0.52
3:FC:147:PRO:HG2	3:FC:150:SER:HB2	1.90	0.52
4:FD:30:HIS:NE2	7:FG:26:ASN:OD1	2.25	0.52
1:AA:188:TYR:O	1:AA:191:MET:N	2.42	0.52
1:AA:426:ALA:O	1:AA:430:ILE:HG22	2.09	0.52
1:AA:663:GLY:O	1:AA:790:LYS:HE3	2.10	0.52
1:AA:1016:SER:CB	1:AA:1019:LEU:HD22	2.39	0.52
1:AA:1555:VAL:N	5:AE:182:ASP:OD1	2.34	0.52
1:AA:1597:ALA:O	1:AA:1602:GLY:HA3	2.09	0.52
2:AB:612:LYS:N	2:AB:620:LEU:HD21	2.25	0.52
3:AC:228:ARG:HD3	14:AN:173:THR:CG2	2.40	0.52
11:AK:53:ALA:HB1	11:AK:104:ARG:HH12	1.74	0.52
1:BA:1484:LEU:HG	2:BB:308:LEU:HD11	1.90	0.52
2:BB:18:THR:HA	2:BB:21:ARG:NH2	2.25	0.52
2:BB:359:LEU:HD22	2:BB:361:HIS:CE1	2.45	0.52
3:BC:85:PHE:O	12:BL:64:LEU:HA	2.09	0.52
7:BG:66:LEU:HD11	7:BG:87:LEU:HD22	1.92	0.52
1:CA:748:ASN:N	1:CA:748:ASN:ND2	2.57	0.52
1:DA:339:PHE:O	1:DA:1629:ASN:HB2	2.09	0.52
1:DA:558:ALA:O	1:DA:561:LEU:HG	2.10	0.52
1:DA:753:ASN:OD1	1:DA:755:ILE:N	2.40	0.52
1:DA:947:LEU:HB2	1:DA:982:VAL:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1532:GLN:HB2	1:DA:1536:ILE:HD11	1.92	0.52
2:DB:211:ARG:NH2	2:DB:243:GLN:OE1	2.30	0.52
1:EA:756:LYS:HG2	9:EI:85:LYS:NZ	2.24	0.52
1:EA:1292:ILE:HD12	1:EA:1292:ILE:O	2.10	0.52
2:EB:1006:ASN:HB3	2:EB:1010:ASN:O	2.09	0.52
7:EG:33:GLY:HA3	7:EG:230:ARG:NH1	2.24	0.52
12:EL:32:ALA:HB2	12:EL:57:LEU:HG	1.91	0.52
7:EO:290:GLU:O	7:EO:292:HIS:N	2.42	0.52
1:FA:602:GLY:O	1:FA:653:THR:HG22	2.09	0.52
2:FB:887:LEU:O	2:FB:887:LEU:HD22	2.10	0.52
2:FB:1053:ASN:ND2	2:FB:1054:SER:H	2.07	0.52
2:FB:1056:THR:HB	2:FB:1058:GLN:HG3	1.92	0.52
5:FE:177:ARG:NH1	5:FE:179:GLN:HE22	2.07	0.52
1:AA:136:LEU:HD13	1:AA:189:VAL:HG23	1.92	0.52
1:AA:874:GLU:O	1:AA:878:ARG:HB2	2.10	0.52
2:AB:772:VAL:O	2:AB:946:ASP:HB2	2.10	0.52
2:AB:854:GLU:HG3	2:AB:875:HIS:HA	1.91	0.52
2:AB:903:ILE:HD12	2:AB:903:ILE:N	2.24	0.52
4:AD:47:LYS:HD3	4:AD:82:LEU:HD13	1.90	0.52
5:AE:55:ARG:NH2	5:AE:113:GLN:OE1	2.42	0.52
1:BA:968:SER:CB	2:BB:676:VAL:HG23	2.40	0.52
2:BB:349:VAL:O	2:BB:353:VAL:HG23	2.09	0.52
2:BB:887:LEU:O	2:BB:887:LEU:HD22	2.08	0.52
1:CA:39:ASP:OD2	1:CA:43:HIS:HB2	2.09	0.52
1:CA:1246:VAL:HG22	1:CA:1250:GLN:HE22	1.73	0.52
1:CA:1562:ILE:O	1:CA:1566:ILE:HG13	2.09	0.52
3:CC:253:PRO:HG2	14:CN:180:PHE:CG	2.44	0.52
3:CC:253:PRO:HB2	14:CN:180:PHE:HD1	1.75	0.52
7:CG:149:ILE:HD11	7:CG:155:ALA:HB2	1.91	0.52
1:DA:830:MET:HB3	2:DB:1008:HIS:HB3	1.90	0.52
1:DA:1270:VAL:HB	9:DI:51:THR:HG21	1.92	0.52
2:DB:242:ASP:OD1	2:DB:244:THR:HG23	2.09	0.52
2:DB:250:LEU:HD11	2:DB:378:ILE:HD13	1.92	0.52
2:DB:1006:ASN:HB3	2:DB:1010:ASN:O	2.08	0.52
2:DB:1151:ILE:HG22	2:DB:1152:PHE:H	1.74	0.52
6:DF:102:SER:HB3	6:DF:117:PRO:HB3	1.92	0.52
7:DG:149:ILE:HD11	7:DG:155:ALA:HB2	1.92	0.52
11:DK:125:MET:HA	11:DK:128:CYS:SG	2.50	0.52
1:EA:842:TRP:CZ3	1:EA:910:LYS:HG3	2.45	0.52
1:EA:843:ARG:NE	1:EA:945:CYS:O	2.40	0.52
2:EB:972:GLY:CA	2:EB:977:ILE:HG22	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EO:281:ASP:O	7:EO:284:VAL:N	2.41	0.52
1:FA:59:ARG:CZ	7:FO:298:PRO:HB3	2.40	0.52
1:FA:646:GLU:CD	2:FB:1086:PHE:HB2	2.30	0.52
1:FA:918:LYS:O	1:FA:923:ASN:ND2	2.40	0.52
1:FA:1217:LEU:HD13	1:FA:1573:TYR:CE1	2.43	0.52
2:FB:707:SER:HB2	2:FB:715:ASN:OD1	2.10	0.52
2:FB:1006:ASN:HB3	2:FB:1010:ASN:O	2.10	0.52
7:FG:57:PRO:HG2	7:FG:58:LEU:H	1.75	0.52
7:FG:61:VAL:HG11	7:FG:87:LEU:HD21	1.91	0.52
2:AB:703:LEU:HD21	2:AB:757:TYR:HD2	1.73	0.52
6:AF:128:LYS:NZ	6:AF:148:VAL:O	2.36	0.52
7:AG:37:CYS:HB3	7:AG:125:TRP:HD1	1.73	0.52
13:AM:32:ALA:HB3	14:AN:121:ILE:HD11	1.92	0.52
1:BA:936:SER:O	1:BA:940:VAL:HG23	2.10	0.52
3:BC:333:ILE:HD13	11:BK:47:ILE:HG13	1.92	0.52
1:CA:1555:VAL:HG13	1:CA:1556:GLU:N	2.25	0.52
2:CB:886:ASN:N	2:CB:902:SER:O	2.32	0.52
2:CB:995:TYR:CE1	14:CN:162:LYS:HG3	2.44	0.52
7:CG:33:GLY:HA3	7:CG:230:ARG:NH1	2.25	0.52
1:DA:956:ARG:HG2	1:DA:979:GLY:O	2.10	0.52
1:DA:987:TYR:CD2	1:DA:987:TYR:C	2.83	0.52
1:DA:1447:GLN:NE2	1:DA:1459:LYS:HG2	2.24	0.52
2:DB:586:VAL:HG22	2:DB:640:LEU:HD23	1.91	0.52
3:DC:59:ILE:HG12	3:DC:60:ASP:H	1.74	0.52
13:DM:113:ILE:O	13:DM:113:ILE:HG22	2.09	0.52
7:DO:314:THR:HB	7:DO:316:GLU:HG3	1.92	0.52
1:EA:39:ASP:OD2	1:EA:43:HIS:HB2	2.09	0.52
1:EA:783:LYS:HE3	1:EA:932:GLY:HA3	1.92	0.52
1:EA:947:LEU:HB2	1:EA:982:VAL:HG11	1.90	0.52
1:EA:1440:ASN:N	1:EA:1440:ASN:OD1	2.42	0.52
1:EA:1623:THR:HA	1:EA:1626:VAL:HG22	1.91	0.52
2:EB:274:VAL:HA	2:EB:277:LEU:HD12	1.92	0.52
2:EB:612:LYS:N	2:EB:620:LEU:HD21	2.24	0.52
2:EB:718:GLN:CD	2:EB:920:ARG:HA	2.30	0.52
2:EB:833:PRO:HG2	2:EB:836:TRP:CZ2	2.45	0.52
5:EE:177:ARG:HD3	5:EE:215:MET:HB2	1.91	0.52
8:EH:97:MET:HB3	8:EH:118:PHE:CD1	2.45	0.52
1:FA:719:ILE:HG22	1:FA:725:LEU:H	1.75	0.52
2:FB:295:ASN:HB3	14:FN:104:LEU:HD13	1.91	0.52
3:FC:45:SER:HG	3:FC:271:ARG:HH22	1.56	0.52
3:FC:54:PHE:CZ	3:FC:300:PHE:HB3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:178:ILE:HG22	5:FE:212:ARG:HB3	1.91	0.52
14:FN:26:PRO:HB2	14:FN:29:PHE:CD1	2.45	0.52
1:AA:549:MET:SD	1:AA:553:GLN:HB2	2.49	0.52
1:AA:669:LEU:HD13	1:AA:673:HIS:HB3	1.90	0.52
1:AA:1092:GLU:O	1:AA:1095:LEU:N	2.42	0.52
1:AA:1102:LEU:CD1	1:AA:1105:ARG:HH21	2.23	0.52
1:AA:1244:ASN:HA	1:AA:1517:ARG:HH11	1.74	0.52
2:AB:276:ILE:O	2:AB:280:LEU:HG	2.10	0.52
5:AE:80:VAL:HG22	5:AE:109:ILE:HB	1.91	0.52
1:BA:1247:SER:OG	1:BA:1249:GLU:N	2.37	0.52
1:BA:1470:CYS:SG	1:BA:1471:GLU:N	2.83	0.52
2:BB:662:ASP:OD1	2:BB:663:ILE:N	2.42	0.52
13:BM:10:ILE:HG22	13:BM:11:GLU:H	1.75	0.52
1:CA:95:TYR:CZ	1:CA:245:LYS:HB3	2.45	0.52
2:CB:244:THR:HG21	2:CB:414:LYS:HD3	1.91	0.52
2:CB:264:TRP:NE1	2:CB:265:ARG:HG2	2.24	0.52
2:CB:649:MET:HE3	2:CB:666:PRO:HG2	1.92	0.52
2:CB:885:VAL:HA	2:CB:903:ILE:HG22	1.92	0.52
3:CC:235:ILE:HA	3:CC:289:VAL:HG13	1.92	0.52
11:CK:54:THR:HG22	11:CK:61:ALA:CA	2.36	0.52
13:CM:39:ASP:C	13:CM:53:LEU:HD12	2.30	0.52
1:DA:607:VAL:O	1:DA:608:LEU:HD23	2.10	0.52
1:DA:618:TYR:O	1:DA:621:THR:OG1	2.26	0.52
1:DA:683:LYS:HB2	8:DH:20:TYR:CE1	2.45	0.52
1:DA:843:ARG:NE	1:DA:945:CYS:O	2.41	0.52
1:DA:1324:LEU:HD22	1:DA:1492:ILE:HG23	1.92	0.52
2:DB:72:VAL:HG11	2:DB:94:LYS:HE3	1.92	0.52
2:DB:1052:VAL:HG13	7:DO:306:SER:HB2	1.92	0.52
14:DN:55:LEU:HB2	14:DN:133:PHE:CZ	2.45	0.52
1:EA:1032:VAL:O	1:EA:1182:GLY:N	2.43	0.52
1:EA:1258:ILE:O	1:EA:1501:ILE:HG13	2.10	0.52
1:EA:1463:ASP:HB2	1:EA:1469:TRP:CD1	2.44	0.52
2:EB:501:ARG:NH2	2:EB:546:ALA:O	2.42	0.52
2:EB:1110:ILE:H	2:EB:1111:LEU:HD23	1.75	0.52
5:EE:5:ASN:ND2	5:EE:52:ARG:HH21	2.05	0.52
7:EO:290:GLU:C	7:EO:292:HIS:H	2.13	0.52
1:FA:70:LYS:C	1:FA:71:PHE:HD1	2.13	0.52
1:FA:693:GLN:O	1:FA:696:ILE:HB	2.09	0.52
2:FB:260:PHE:HD1	2:FB:261:ARG:N	2.07	0.52
7:FG:149:ILE:HD11	7:FG:155:ALA:HB2	1.92	0.52
7:FG:158:LYS:O	7:FG:162:ILE:HG13	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:FN:92:ASP:O	14:FN:93:THR:OG1	2.27	0.52
1:AA:239:PHE:CG	1:AA:260:GLN:HG2	2.44	0.52
1:AA:674:ILE:O	1:AA:678:VAL:HG23	2.10	0.52
1:AA:713:VAL:HG12	1:AA:714:THR:H	1.75	0.52
1:AA:1506:ARG:CZ	1:AA:1506:ARG:HB2	2.38	0.52
2:AB:846:PRO:HG3	2:AB:858:ILE:O	2.10	0.52
2:AB:852:VAL:HG13	2:AB:856:ASP:HB2	1.92	0.52
2:AB:1047:ARG:NH1	2:AB:1050:GLY:H	2.08	0.52
5:AE:106:GLN:O	5:AE:131:THR:HG23	2.10	0.52
1:BA:597:LYS:HB2	2:BB:1082:HIS:CE1	2.45	0.52
2:BB:345:SER:HA	13:BM:113:ILE:HD11	1.91	0.52
2:BB:609:ARG:O	2:BB:612:LYS:HB3	2.09	0.52
1:CA:7:VAL:HG12	1:CA:9:SER:H	1.73	0.52
1:CA:1028:GLU:OE1	1:CA:1638:SER:HB2	2.10	0.52
1:CA:1237:GLN:HB2	1:CA:1544:ASN:HB2	1.91	0.52
1:CA:1474:LEU:HD13	1:CA:1475:GLU:N	2.25	0.52
2:CB:848:ILE:HD12	2:CB:885:VAL:HG21	1.92	0.52
3:CC:163:TYR:N	3:CC:166:ASP:OD2	2.38	0.52
3:CC:316:LYS:O	3:CC:320:ILE:N	2.40	0.52
5:CE:64:PRO:HB3	5:CE:68:SER:CB	2.40	0.52
2:DB:209:GLN:OE1	2:DB:237:ARG:HB2	2.10	0.52
2:DB:775:VAL:H	2:DB:1028:VAL:HG12	1.73	0.52
2:DB:776:ILE:HD12	2:DB:777:SER:H	1.74	0.52
2:DB:1024:ALA:O	2:DB:1026:ILE:N	2.43	0.52
4:DD:25:THR:OG1	7:DG:42:PRO:HB2	2.10	0.52
5:DE:39:LEU:O	5:DE:42:PHE:HB3	2.09	0.52
14:DN:90:MET:HB2	14:DN:92:ASP:OD1	2.09	0.52
1:EA:603:HIS:HE2	1:EA:624:TYR:HH	1.57	0.52
1:EA:1144:LEU:O	1:EA:1148:LEU:HB2	2.10	0.52
1:EA:1526:PHE:O	1:EA:1529:MET:N	2.42	0.52
2:EB:474:SER:C	2:EB:476:LEU:H	2.12	0.52
7:EG:18:LYS:O	7:EG:20:HIS:N	2.43	0.52
7:EG:61:VAL:HG11	7:EG:87:LEU:HD21	1.91	0.52
7:EG:140:GLN:HB3	7:EG:217:TRP:HD1	1.75	0.52
9:EI:2:SER:HB2	9:EI:11:LEU:HD21	1.91	0.52
10:EJ:54:VAL:C	10:EJ:56:LEU:H	2.12	0.52
11:EK:135:PHE:CE2	11:EK:139:ILE:HG13	2.45	0.52
1:FA:646:GLU:OE1	2:FB:1086:PHE:HB2	2.09	0.52
1:FA:875:LEU:O	1:FA:879:LEU:HG	2.10	0.52
1:FA:1027:LEU:HD21	1:FA:1588:MET:HG2	1.91	0.52
2:FB:807:GLU:O	2:FB:902:SER:OG	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:983:PRO:HB2	2:FB:984:TRP:CE3	2.45	0.52
5:FE:154:ILE:HB	5:FE:197:LYS:HB3	1.91	0.52
1:AA:618:TYR:HB3	1:AA:670:ILE:CD1	2.39	0.52
1:AA:1146:SER:OG	1:AA:1147:PHE:N	2.41	0.52
2:AB:178:TYR:O	2:AB:182:GLN:HG2	2.10	0.52
2:AB:1093:LEU:HD11	2:AB:1179:PRO:HB3	1.92	0.52
3:AC:230:LEU:HD12	3:AC:231:PRO:HD2	1.91	0.52
4:AD:89:LEU:HA	4:AD:92:ILE:HD12	1.92	0.52
1:BA:1248:ASP:O	1:BA:1251:ALA:HB3	2.10	0.52
1:BA:1321:PHE:HD1	1:BA:1496:SER:OG	1.93	0.52
2:BB:125:GLU:O	2:BB:129:ARG:HB2	2.10	0.52
2:BB:277:LEU:HG	2:BB:374:LEU:HD21	1.92	0.52
2:BB:408:LEU:HA	2:BB:411:MET:HG3	1.92	0.52
2:BB:1050:GLY:O	7:BO:306:SER:HB2	2.09	0.52
3:BC:277:ARG:NH1	3:BC:291:LEU:HD13	2.25	0.52
13:BM:58:GLU:HG2	13:BM:59:ARG:N	2.25	0.52
13:BM:77:VAL:HG21	14:BN:64:ILE:HD12	1.91	0.52
1:CA:469:LYS:HZ3	7:CO:314:THR:C	2.13	0.52
1:CA:680:LEU:HD12	1:CA:820:TYR:CG	2.45	0.52
1:CA:816:LEU:HG	1:CA:817:PHE:N	2.25	0.52
1:CA:1271:ILE:HG22	9:CI:48:VAL:HG12	1.92	0.52
2:CB:138:LEU:O	2:CB:139:LEU:HD23	2.10	0.52
5:CE:28:TYR:HA	5:CE:64:PRO:HA	1.92	0.52
1:DA:1263:LEU:HA	1:DA:1498:ILE:HD11	1.93	0.52
2:DB:72:VAL:HG13	2:DB:95:LEU:O	2.09	0.52
3:DC:51:GLU:HB3	3:DC:303:GLU:HA	1.92	0.52
3:DC:325:ALA:O	3:DC:328:LEU:N	2.43	0.52
7:DG:10:ASN:HB2	7:DG:14:ALA:HB3	1.91	0.52
14:DN:85:HIS:HB3	14:DN:87:TYR:CE1	2.45	0.52
1:EA:7:VAL:HG11	2:EB:1175:THR:O	2.10	0.52
2:EB:772:VAL:HB	2:EB:946:ASP:OD2	2.11	0.52
2:EB:851:TYR:HD1	2:EB:881:TYR:CE1	2.28	0.52
3:EC:223:SER:HB2	3:EC:303:GLU:HB3	1.92	0.52
7:EG:72:LYS:O	7:EG:81:VAL:HG23	2.09	0.52
1:FA:188:TYR:O	1:FA:191:MET:N	2.43	0.52
1:FA:250:LYS:HD3	1:FA:428:VAL:HG22	1.92	0.52
1:FA:1058:THR:C	1:FA:1060:GLU:H	2.12	0.52
1:FA:1269:LYS:HD2	1:FA:1271:ILE:HD11	1.91	0.52
2:FB:380:LYS:HE3	2:FB:637:TYR:CB	2.40	0.52
2:FB:393:ASN:ND2	2:FB:395:ASP:HB2	2.24	0.52
2:FB:504:HIS:HB3	2:FB:542:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:916:LYS:HE3	2:FB:1040:VAL:HG13	1.91	0.52
2:FB:1178:ILE:HD12	2:FB:1179:PRO:O	2.09	0.52
3:FC:248:GLN:HG3	3:FC:256:ILE:O	2.10	0.52
7:FG:53:TYR:HB3	7:FG:56:ASN:O	2.10	0.52
9:FI:122:ARG:HG3	9:FI:122:ARG:O	2.09	0.52
13:FM:39:ASP:C	13:FM:53:LEU:HD12	2.31	0.52
1:AA:1195:GLU:O	1:AA:1198:THR:OG1	2.27	0.51
1:AA:1246:VAL:HG22	1:AA:1250:GLN:NE2	2.24	0.51
2:AB:821:ILE:HD11	2:AB:899:GLN:OE1	2.10	0.51
2:AB:858:ILE:HG12	2:AB:872:LYS:O	2.10	0.51
3:AC:87:ASN:OD1	12:AL:60:ARG:HD3	2.10	0.51
3:AC:253:PRO:HB2	14:AN:180:PHE:HD1	1.75	0.51
7:AG:29:ASP:C	7:AG:31:LYS:H	2.14	0.51
11:AK:49:LEU:HD12	11:AK:62:SER:O	2.10	0.51
1:BA:1012:LYS:HE3	2:BB:515:THR:HG23	1.92	0.51
1:BA:1447:GLN:NE2	1:BA:1459:LYS:HG2	2.25	0.51
2:BB:526:GLY:HA2	2:BB:696:ILE:HG22	1.91	0.51
3:BC:163:TYR:N	3:BC:166:ASP:OD2	2.40	0.51
10:BJ:2:ILE:HG12	10:BJ:3:VAL:HG23	1.92	0.51
1:CA:315:ILE:HG13	1:CA:319:GLU:HB2	1.92	0.51
1:CA:509:GLU:OE1	1:CA:579:ARG:NH2	2.42	0.51
2:CB:906:ARG:HD2	3:CC:93:GLN:HG3	1.92	0.51
2:CB:1143:THR:HG21	2:CB:1150:LYS:N	2.25	0.51
4:CD:14:THR:OG1	4:CD:16:LEU:HB2	2.10	0.51
7:CG:29:ASP:O	7:CG:31:LYS:N	2.43	0.51
14:CN:71:PRO:HD2	14:CN:89:ILE:HD11	1.91	0.51
1:DA:456:VAL:O	1:DA:459:ALA:HB3	2.10	0.51
1:DA:602:GLY:O	1:DA:653:THR:HG22	2.10	0.51
1:DA:918:LYS:O	1:DA:923:ASN:ND2	2.40	0.51
1:DA:1184:ALA:O	1:DA:1186:GLY:N	2.43	0.51
1:DA:1217:LEU:HD13	1:DA:1573:TYR:CE1	2.40	0.51
2:DB:162:PRO:HB2	2:DB:409:TYR:OH	2.10	0.51
2:DB:604:ILE:O	2:DB:608:LEU:HG	2.10	0.51
2:DB:848:ILE:CG1	12:DL:60:ARG:HA	2.40	0.51
3:DC:191:ILE:O	3:DC:193:LEU:HD13	2.10	0.51
7:DG:29:ASP:OD1	7:DG:29:ASP:N	2.39	0.51
8:DH:5:LEU:O	8:DH:6:PHE:HB2	2.10	0.51
9:DI:95:ASN:HB2	9:DI:113:THR:HB	1.92	0.51
12:DL:40:LEU:HD22	12:DL:44:ASP:HB3	1.91	0.51
1:EA:70:LYS:HE2	1:EA:71:PHE:CE1	2.44	0.51
3:EC:188:ASP:O	3:EC:191:ILE:HG13	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EF:100:GLN:HG2	7:EG:112:PRO:HB3	1.92	0.51
9:EI:109:THR:HG21	9:EI:122:ARG:NH1	2.25	0.51
13:EM:10:ILE:HG22	13:EM:11:GLU:H	1.74	0.51
1:FA:214:ASP:OD2	5:FE:177:ARG:NH2	2.43	0.51
1:FA:456:VAL:O	1:FA:459:ALA:HB3	2.10	0.51
1:FA:713:VAL:HG12	1:FA:714:THR:H	1.74	0.51
1:FA:1531:ASP:OD2	5:FE:11:ARG:NH1	2.43	0.51
1:FA:1553:TYR:CD1	5:FE:144:ILE:HB	2.39	0.51
1:AA:478:TYR:N	2:AB:1047:ARG:O	2.43	0.51
1:AA:947:LEU:HB2	1:AA:982:VAL:HG11	1.92	0.51
1:AA:1463:ASP:O	1:AA:1465:GLU:N	2.39	0.51
2:AB:851:TYR:HD1	2:AB:881:TYR:CE1	2.28	0.51
7:AG:149:ILE:HD11	7:AG:155:ALA:HB2	1.91	0.51
11:AK:118:GLN:O	11:AK:121:LEU:N	2.44	0.51
1:BA:70:LYS:HE2	1:BA:71:PHE:CE1	2.44	0.51
1:BA:1463:ASP:O	1:BA:1465:GLU:N	2.39	0.51
1:BA:1647:ASN:HD22	1:BA:1648:ASN:H	1.56	0.51
1:BA:1661:PRO:HA	7:BG:102:GLU:HA	1.92	0.51
2:BB:307:GLU:OE2	2:BB:311:ARG:NH1	2.44	0.51
2:BB:909:ARG:O	2:BB:1035:ARG:NH2	2.39	0.51
1:CA:456:VAL:HG11	2:CB:1192:MET:SD	2.49	0.51
1:CA:1031:HIS:HB2	1:CA:1182:GLY:O	2.10	0.51
1:CA:1272:VAL:HG12	1:CA:1273:THR:H	1.75	0.51
2:CB:260:PHE:HD1	2:CB:261:ARG:N	2.08	0.51
2:CB:612:LYS:N	2:CB:620:LEU:HD21	2.25	0.51
2:CB:902:SER:OG	2:CB:903:ILE:N	2.42	0.51
7:CG:218:VAL:HA	7:CG:224:PRO:HA	1.92	0.51
7:CG:226:ASP:O	2:DB:434:ARG:HD3	2.10	0.51
13:CM:7:VAL:HA	14:CN:73:ASP:OD2	2.10	0.51
1:DA:492:THR:HG23	1:DA:811:SER:OG	2.10	0.51
1:DA:1661:PRO:HA	7:DG:102:GLU:HA	1.93	0.51
2:DB:132:SER:HA	2:DB:195:ILE:O	2.10	0.51
2:DB:939:SER:OG	2:DB:943:ILE:N	2.41	0.51
2:DB:962:MET:O	2:DB:965:GLU:N	2.43	0.51
2:DB:1198:TYR:CD2	2:DB:1198:TYR:N	2.78	0.51
8:DH:60:ALA:O	8:DH:140:ALA:HB1	2.11	0.51
14:DN:72:VAL:HG22	14:DN:137:PHE:HE1	1.74	0.51
1:EA:549:MET:SD	1:EA:553:GLN:HB2	2.50	0.51
1:EA:879:LEU:HD12	1:EA:972:TYR:HB3	1.93	0.51
1:EA:920:PHE:CG	1:EA:921:PRO:HA	2.45	0.51
2:EB:903:ILE:HD13	2:EB:905:TYR:HE1	1.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:245:ARG:N	3:EC:245:ARG:HD2	2.25	0.51
5:EE:22:MET:HA	5:EE:187:TYR:CZ	2.46	0.51
6:EF:128:LYS:NZ	6:EF:148:VAL:O	2.36	0.51
1:FA:836:THR:OG1	1:FA:837:ALA:N	2.43	0.51
1:FA:1299:ASN:HA	1:FA:1302:TYR:CE2	2.46	0.51
11:FK:58:GLY:O	11:FK:60:SER:N	2.42	0.51
13:FM:112:LYS:O	13:FM:113:ILE:HG13	2.10	0.51
14:FN:72:VAL:HG22	14:FN:137:PHE:HE1	1.76	0.51
14:FN:97:SER:HB3	14:FN:105:SER:HB3	1.92	0.51
1:AA:718:THR:OG1	1:AA:730:GLN:OE1	2.28	0.51
1:AA:1585:ILE:O	1:AA:1588:MET:HB3	2.10	0.51
2:AB:205:MET:HB2	2:AB:502:MET:O	2.10	0.51
3:AC:253:PRO:HG2	14:AN:180:PHE:CG	2.46	0.51
1:BA:7:VAL:HG12	1:BA:9:SER:H	1.76	0.51
2:BB:47:GLY:HA2	2:BB:50:ASN:HD22	1.75	0.51
2:BB:1002:LYS:HZ3	14:BN:166:LEU:HD13	1.73	0.51
3:BC:88:ASN:OD1	3:BC:202:ILE:HD11	2.09	0.51
2:CB:1117:VAL:HG21	2:CB:1162:GLY:N	2.26	0.51
1:DA:1512:PRO:HB3	1:DA:1517:ARG:HA	1.93	0.51
7:DG:93:ASP:HB2	7:DG:104:LEU:HD12	1.91	0.51
10:DJ:31:ASP:OD1	10:DJ:34:THR:HB	2.10	0.51
11:DK:117:LEU:O	11:DK:121:LEU:HB2	2.10	0.51
1:EA:1095:LEU:CD2	1:EA:1134:GLY:HA3	2.40	0.51
2:EB:772:VAL:O	2:EB:946:ASP:HB2	2.10	0.51
2:EB:858:ILE:HG12	2:EB:872:LYS:O	2.11	0.51
13:EM:39:ASP:C	13:EM:53:LEU:HD12	2.31	0.51
1:FA:189:VAL:O	1:FA:193:ILE:HG13	2.11	0.51
1:FA:203:THR:OG1	1:FA:204:GLU:N	2.42	0.51
1:FA:1240:LEU:HD11	1:FA:1529:MET:SD	2.51	0.51
1:FA:1245:ASP:OD2	1:FA:1245:ASP:N	2.38	0.51
1:FA:1251:ALA:O	1:FA:1253:THR:N	2.43	0.51
1:FA:1555:VAL:HG13	1:FA:1556:GLU:N	2.25	0.51
1:FA:1656:VAL:HG23	7:FG:107:ILE:HB	1.91	0.51
2:FB:117:VAL:HG12	2:FB:118:GLU:H	1.75	0.51
2:FB:273:VAL:HA	2:FB:276:ILE:HD13	1.92	0.51
2:FB:1198:TYR:CD2	2:FB:1198:TYR:N	2.76	0.51
5:FE:177:ARG:HD3	5:FE:215:MET:HB2	1.92	0.51
6:FF:97:ARG:HA	6:FF:100:GLN:HG3	1.92	0.51
7:FG:37:CYS:HB3	7:FG:125:TRP:HD1	1.74	0.51
13:FM:16:GLN:HB3	13:FM:92:LYS:H	1.74	0.51
1:AA:1240:LEU:HD23	1:AA:1541:ILE:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1242:ILE:HD11	1:AA:1517:ARG:HB3	1.91	0.51
1:AA:1332:GLU:O	1:AA:1336:GLN:HG2	2.10	0.51
2:AB:555:GLN:NE2	2:AB:644:GLY:O	2.43	0.51
3:AC:228:ARG:HG3	3:AC:299:ILE:HD12	1.92	0.51
1:BA:537:GLN:HE21	1:BA:541:GLY:HA2	1.76	0.51
1:BA:684:ASP:OD1	8:BH:20:TYR:HB3	2.11	0.51
1:BA:699:CYS:SG	1:BA:700:ILE:N	2.82	0.51
1:BA:1092:GLU:O	1:BA:1094:ALA:N	2.43	0.51
2:BB:46:ILE:HG22	2:BB:50:ASN:HD21	1.75	0.51
2:BB:903:ILE:HD12	2:BB:903:ILE:N	2.25	0.51
3:BC:209:ILE:HG12	3:BC:210:LEU:O	2.09	0.51
14:BN:71:PRO:HB2	14:BN:89:ILE:HD12	1.92	0.51
1:CA:831:ASP:OD1	1:CA:831:ASP:N	2.33	0.51
2:CB:887:LEU:O	2:CB:888:ILE:HD12	2.10	0.51
3:CC:70:ILE:C	3:CC:72:ILE:H	2.13	0.51
3:CC:277:ARG:HG3	3:CC:291:LEU:HD13	1.91	0.51
5:CE:22:MET:HA	5:CE:187:TYR:CZ	2.45	0.51
13:CM:16:GLN:HG3	13:CM:17:ASP:H	1.75	0.51
1:DA:188:TYR:O	1:DA:191:MET:N	2.44	0.51
1:DA:879:LEU:HD12	1:DA:972:TYR:HB3	1.92	0.51
1:DA:1202:LEU:HD22	9:DI:99:LEU:CD2	2.31	0.51
2:DB:893:ASN:ND2	2:DB:895:PHE:HD1	2.09	0.51
3:DC:199:GLY:HA3	10:DJ:66:LEU:HD22	1.92	0.51
9:DI:99:LEU:HB2	9:DI:111:PHE:CZ	2.42	0.51
1:EA:752:LYS:HG3	1:EA:768:GLU:HA	1.93	0.51
1:EA:1170:MET:HA	1:EA:1173:LYS:HB3	1.93	0.51
1:EA:1463:ASP:C	1:EA:1465:GLU:H	2.13	0.51
2:EB:273:VAL:HA	2:EB:276:ILE:HD13	1.92	0.51
2:EB:586:VAL:HG22	2:EB:640:LEU:HD23	1.92	0.51
5:EE:28:TYR:CE1	5:EE:78:LEU:HB3	2.45	0.51
5:EE:56:LYS:HG3	5:EE:84:ASP:OD2	2.10	0.51
7:EG:45:LEU:CD1	7:EG:118:CYS:HB2	2.40	0.51
14:EN:131:LEU:HG	14:EN:132:GLN:N	2.26	0.51
1:FA:697:TYR:CE1	1:FA:702:PRO:HD3	2.46	0.51
1:FA:1170:MET:O	1:FA:1173:LYS:N	2.43	0.51
1:FA:1292:ILE:HD12	1:FA:1292:ILE:O	2.09	0.51
2:FB:687:THR:OG1	2:FB:688:HIS:ND1	2.43	0.51
1:AA:806:ALA:O	1:AA:809:VAL:N	2.44	0.51
1:AA:928:MET:HG2	2:AB:955:PRO:HG3	1.92	0.51
1:AA:1335:LYS:HD2	1:AA:1338:ARG:NH2	2.25	0.51
2:AB:38:LEU:HD21	2:AB:760:TYR:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:772:VAL:HB	2:AB:946:ASP:OD2	2.10	0.51
13:AM:23:VAL:HB	13:AM:95:VAL:HG22	1.92	0.51
1:BA:533:ALA:HB2	1:BA:579:ARG:HA	1.92	0.51
2:BB:846:PRO:HG3	2:BB:858:ILE:O	2.09	0.51
1:CA:339:PHE:O	1:CA:1629:ASN:HB2	2.11	0.51
1:CA:379:GLU:HA	7:CO:292:HIS:CD2	2.45	0.51
1:CA:422:ARG:HA	7:CO:272:ILE:HD12	1.93	0.51
1:CA:476:VAL:HG11	2:CB:1091:ARG:O	2.11	0.51
1:CA:701:ARG:O	1:CA:704:ASP:HB2	2.09	0.51
1:CA:1271:ILE:HG23	9:CI:50:THR:HG22	1.93	0.51
2:CB:162:PRO:HB2	2:CB:409:TYR:OH	2.11	0.51
2:CB:622:ILE:H	2:CB:622:ILE:HD12	1.76	0.51
2:CB:871:ILE:HD13	2:CB:873:THR:HG22	1.93	0.51
3:CC:277:ARG:NH1	3:CC:291:LEU:HD13	2.26	0.51
3:CC:328:LEU:HD11	11:CK:65:ILE:HD11	1.93	0.51
5:CE:55:ARG:NH2	5:CE:113:GLN:OE1	2.44	0.51
12:CL:32:ALA:HB2	12:CL:57:LEU:HG	1.92	0.51
1:DA:1237:GLN:HB2	1:DA:1544:ASN:HB2	1.91	0.51
1:DA:1640:ARG:O	1:DA:1644:GLY:N	2.34	0.51
2:DB:346:ASP:OD1	13:DM:113:ILE:HG23	2.11	0.51
2:DB:359:LEU:HD22	2:DB:361:HIS:CE1	2.46	0.51
2:DB:470:LEU:HD22	2:DB:484:TYR:CE1	2.46	0.51
1:EA:395:LEU:HD13	7:EO:276:LYS:HB2	1.93	0.51
1:EA:491:GLU:OE1	1:EA:815:ARG:NH2	2.24	0.51
1:EA:607:VAL:O	1:EA:608:LEU:HD23	2.11	0.51
1:EA:1540:GLY:O	1:EA:1542:THR:N	2.40	0.51
2:EB:14:ALA:HB2	2:EB:980:ASP:CB	2.40	0.51
2:EB:211:ARG:NH2	2:EB:243:GLN:OE1	2.37	0.51
2:EB:975:HIS:NE2	2:EB:1003:ALA:HB2	2.25	0.51
2:EB:1077:ASP:O	2:EB:1080:ILE:HB	2.11	0.51
5:EE:19:VAL:O	5:EE:23:VAL:HG23	2.11	0.51
8:EH:103:LYS:HB3	8:EH:115:TYR:HB2	1.93	0.51
7:EO:301:LYS:HA	7:EO:307:GLU:HA	1.92	0.51
5:FE:28:TYR:CE1	5:FE:78:LEU:HB3	2.45	0.51
14:FN:148:ILE:HD13	14:FN:150:TYR:OH	2.10	0.51
1:AA:896:THR:O	1:AA:900:VAL:HG13	2.09	0.51
1:AA:1019:LEU:HD21	1:AA:1194:GLY:CA	2.41	0.51
1:AA:1098:SER:OG	1:AA:1141:GLN:NE2	2.44	0.51
1:AA:1263:LEU:HG	1:AA:1267:ILE:HD11	1.92	0.51
1:AA:1271:ILE:HG23	9:AI:50:THR:HG22	1.93	0.51
1:AA:1609:SER:O	1:AA:1612:LYS:HB2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:397:THR:HA	2:AB:400:GLN:OE1	2.10	0.51
2:AB:649:MET:HE3	2:AB:666:PRO:HG2	1.93	0.51
3:AC:103:LEU:O	10:AJ:6:ARG:CZ	2.58	0.51
14:AN:70:LEU:O	14:AN:70:LEU:HG	2.09	0.51
14:AN:97:SER:CB	14:AN:105:SER:HB3	2.40	0.51
1:BA:372:LYS:HG2	7:BO:310:TYR:HD2	1.76	0.51
1:BA:482:SER:HB2	2:BB:1044:PHE:HB3	1.92	0.51
1:BA:507:TYR:HB2	1:BA:637:PHE:CZ	2.46	0.51
1:BA:727:THR:HG21	8:BH:119:GLY:O	2.10	0.51
1:BA:1263:LEU:HG	1:BA:1267:ILE:HD11	1.93	0.51
1:BA:1454:HIS:HB2	1:BA:1457:ILE:HG13	1.91	0.51
2:BB:501:ARG:NH2	2:BB:546:ALA:O	2.44	0.51
2:BB:790:ASN:OD1	2:BB:792:SER:N	2.44	0.51
5:BE:56:LYS:HG3	5:BE:84:ASP:OD2	2.10	0.51
13:BM:112:LYS:HG3	13:BM:113:ILE:HD12	1.92	0.51
1:CA:862:THR:HA	9:CI:67:VAL:HG12	1.92	0.51
1:CA:943:ILE:HA	1:CA:986:PHE:HB2	1.92	0.51
1:CA:1104:TYR:HE2	1:CA:1119:LYS:HD2	1.75	0.51
2:CB:72:VAL:HG11	2:CB:94:LYS:HE3	1.93	0.51
3:CC:85:PHE:HA	3:CC:204:LEU:HD13	1.93	0.51
4:CD:22:ILE:H	7:CG:76:LYS:HZ1	1.58	0.51
4:CD:44:ILE:HD13	4:CD:90:LYS:HG3	1.92	0.51
8:CH:13:SER:N	8:CH:27:GLU:O	2.38	0.51
1:DA:778:CYS:SG	1:DA:779:GLY:N	2.83	0.51
1:DA:1195:GLU:O	1:DA:1198:THR:OG1	2.24	0.51
2:DB:164:MET:HG3	2:DB:165:LEU:N	2.25	0.51
2:DB:772:VAL:O	2:DB:946:ASP:HB2	2.10	0.51
5:DE:198:ILE:HD12	5:DE:210:SER:OG	2.11	0.51
1:EA:809:VAL:HG12	1:EA:810:LEU:N	2.26	0.51
1:EA:1586:ALA:O	1:EA:1589:MET:N	2.43	0.51
2:EB:70:GLU:HG2	2:EB:97:VAL:C	2.31	0.51
2:EB:837:LEU:HD12	1:FA:552:GLU:HB3	1.91	0.51
3:EC:59:ILE:HD11	3:EC:63:ILE:HB	1.91	0.51
1:FA:20:THR:HG23	1:FA:23:GLU:HG3	1.93	0.51
1:FA:342:ARG:CZ	1:FA:342:ARG:HB2	2.39	0.51
2:FB:627:GLY:H	2:FB:642:LEU:HD22	1.75	0.51
2:FB:876:SER:O	2:FB:878:GLU:N	2.34	0.51
3:FC:90:SER:OG	3:FC:91:VAL:N	2.43	0.51
5:FE:198:ILE:HD12	5:FE:210:SER:OG	2.10	0.51
8:FH:97:MET:HB3	8:FH:118:PHE:CD1	2.46	0.51
9:FI:23:VAL:HG21	9:FI:28:VAL:HG13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:FM:89:GLN:O	13:FM:90:LEU:HD23	2.10	0.51
1:AA:406:LEU:HB3	7:AO:266:GLN:HB3	1.92	0.51
1:AA:1559:ARG:O	1:AA:1563:VAL:HG23	2.11	0.51
2:AB:501:ARG:NH2	2:AB:546:ALA:O	2.44	0.51
3:AC:224:THR:HB	10:AJ:10:CYS:HB2	1.93	0.51
8:AH:35:GLN:O	8:AH:127:GLY:HA2	2.11	0.51
10:AJ:18:TRP:O	10:AJ:22:LEU:HG	2.11	0.51
1:BA:136:LEU:HD13	1:BA:189:VAL:HG23	1.93	0.51
1:BA:426:ALA:O	1:BA:430:ILE:HG22	2.11	0.51
2:BB:1157:GLN:HB3	2:BB:1168:VAL:HG12	1.92	0.51
3:BC:316:LYS:O	3:BC:320:ILE:N	2.43	0.51
7:BG:29:ASP:O	7:BG:31:LYS:N	2.43	0.51
12:BL:31:CYS:HA	12:BL:56:LEU:HD23	1.93	0.51
1:CA:497:VAL:HG23	1:CA:606:ARG:O	2.11	0.51
1:CA:669:LEU:H	1:CA:787:GLY:HA2	1.75	0.51
1:CA:1085:LEU:HD13	6:CF:84:TYR:OH	2.11	0.51
2:CB:72:VAL:HG13	2:CB:95:LEU:O	2.10	0.51
3:CC:227:TYR:HA	3:CC:299:ILE:O	2.11	0.51
8:CH:7:ASP:HB2	8:CH:57:VAL:O	2.09	0.51
8:CH:57:VAL:HG13	8:CH:144:ILE:HG13	1.92	0.51
1:DA:1457:ILE:HA	1:DA:1474:LEU:CD2	2.40	0.51
1:DA:1485:MET:O	1:DA:1489:VAL:HG23	2.10	0.51
5:DE:143:ASN:O	5:DE:145:THR:N	2.44	0.51
1:EA:892:LEU:HG	1:EA:893:ASP:OD1	2.11	0.51
1:EA:1007:ILE:CG2	2:EB:515:THR:HG22	2.40	0.51
1:EA:1193:VAL:O	1:EA:1196:PRO:HD2	2.10	0.51
1:EA:1579:PHE:HA	1:EA:1582:LEU:HG	1.91	0.51
1:FA:1580:ARG:NH2	5:FE:204:THR:HG23	2.26	0.51
2:FB:36:PRO:O	2:FB:39:GLN:HG3	2.11	0.51
2:FB:744:LEU:HD12	2:FB:745:GLN:H	1.76	0.51
2:FB:834:LYS:C	2:FB:836:TRP:N	2.63	0.51
1:AA:20:THR:HG23	1:AA:23:GLU:HG3	1.92	0.51
1:AA:719:ILE:HG22	1:AA:725:LEU:H	1.76	0.51
1:AA:862:THR:HA	9:AI:67:VAL:HG12	1.93	0.51
2:AB:1018:THR:HB	2:AB:1020:GLU:OE1	2.09	0.51
3:AC:134:LEU:HD23	3:AC:169:PHE:HA	1.93	0.51
3:AC:316:LYS:O	3:AC:320:ILE:N	2.37	0.51
14:AN:72:VAL:HG22	14:AN:137:PHE:HE1	1.76	0.51
1:BA:893:ASP:OD2	1:BA:956:ARG:N	2.37	0.51
2:BB:1060:VAL:HG21	7:BO:311:GLU:OE1	2.10	0.51
2:BB:1083:GLY:HA3	6:BF:88:TYR:HE1	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:907:VAL:HG12	1:CA:945:CYS:SG	2.49	0.51
1:CA:1105:ARG:NH2	1:CA:1138:GLU:OE2	2.43	0.51
2:CB:703:LEU:HD23	2:CB:754:ALA:HB3	1.92	0.51
1:DA:315:ILE:HG13	1:DA:319:GLU:HB2	1.92	0.51
1:DA:1545:ASP:CG	1:DA:1546:VAL:H	2.14	0.51
2:DB:59:GLY:O	2:DB:62:ASN:N	2.44	0.51
7:DO:312:GLU:O	7:DO:314:THR:N	2.44	0.51
1:EA:692:TYR:O	1:EA:696:ILE:HG12	2.11	0.51
1:EA:862:THR:HA	9:EI:67:VAL:HG12	1.92	0.51
1:EA:964:LYS:NZ	1:EA:967:PRO:HA	2.25	0.51
1:EA:1332:GLU:O	1:EA:1336:GLN:HG2	2.11	0.51
2:EB:72:VAL:HG13	2:EB:95:LEU:O	2.11	0.51
2:EB:572:PRO:HG2	13:EM:70:SER:HB2	1.91	0.51
2:EB:662:ASP:O	2:EB:663:ILE:HB	2.10	0.51
2:EB:1044:PHE:O	2:EB:1045:GLN:HB3	2.10	0.51
7:EG:159:LYS:NZ	7:FO:279:VAL:HG23	2.25	0.51
14:EN:57:LYS:HD3	14:EN:138:SER:OG	2.11	0.51
1:FA:507:TYR:HB3	1:FA:579:ARG:HH12	1.74	0.51
1:FA:794:VAL:HG23	1:FA:795:HIS:N	2.21	0.51
1:FA:1244:ASN:HA	1:FA:1517:ARG:HH11	1.76	0.51
1:FA:1272:VAL:HG23	9:FI:49:THR:O	2.11	0.51
3:FC:216:HIS:ND1	3:FC:218:LYS:HD2	2.25	0.51
3:AC:95:GLU:HG2	3:AC:96:VAL:N	2.25	0.51
13:AM:23:VAL:HG13	14:AN:108:THR:O	2.11	0.51
14:AN:37:ASN:HD22	14:AN:38:PHE:H	1.58	0.51
1:BA:52:LEU:C	1:BA:54:LEU:H	2.15	0.51
1:BA:874:GLU:O	1:BA:878:ARG:HB2	2.10	0.51
2:BB:380:LYS:HE3	2:BB:637:TYR:HB3	1.92	0.51
2:BB:1093:LEU:HD11	2:BB:1179:PRO:HB3	1.93	0.51
1:CA:1601:GLN:O	1:CA:1603:MET:N	2.36	0.51
2:CB:474:SER:C	2:CB:476:LEU:H	2.13	0.51
2:CB:887:LEU:O	2:CB:887:LEU:HD22	2.10	0.51
9:CI:2:SER:HB2	9:CI:11:LEU:HD21	1.93	0.51
1:DA:507:TYR:HB2	1:DA:637:PHE:CZ	2.46	0.51
1:DA:603:HIS:HE2	1:DA:624:TYR:HH	1.59	0.51
1:DA:1291:VAL:HA	1:DA:1473:LYS:HB2	1.92	0.51
2:DB:428:VAL:O	2:DB:432:ILE:HD12	2.11	0.51
7:DG:80:VAL:O	7:DG:124:VAL:HG13	2.10	0.51
9:DI:2:SER:HA	9:DI:9:PHE:O	2.10	0.51
1:EA:536:ILE:HG12	1:EA:577:VAL:HG22	1.92	0.51
1:EA:1028:GLU:CD	1:EA:1637:PRO:HB2	2.32	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1105:ARG:NH1	1:EA:1138:GLU:OE1	2.42	0.51
3:EC:303:GLU:OE1	10:EJ:43:ARG:NH2	2.44	0.51
8:EH:7:ASP:HB2	8:EH:57:VAL:O	2.10	0.51
1:FA:585:ASP:OD1	1:FA:644:ARG:NH1	2.43	0.51
1:FA:689:ARG:HD2	8:FH:81:PRO:HG3	1.92	0.51
1:FA:888:LYS:HG2	9:FI:67:VAL:HG21	1.91	0.51
1:FA:1262:LEU:HD12	1:FA:1264:SER:HG	1.76	0.51
7:FG:67:ASN:O	7:FG:70:VAL:HG23	2.11	0.51
7:FG:100:THR:O	7:FG:102:GLU:N	2.44	0.51
1:AA:753:ASN:ND2	1:AA:767:ASN:O	2.44	0.51
1:AA:1612:LYS:HB3	1:AA:1621:PHE:CG	2.46	0.51
1:AA:1647:ASN:HD22	1:AA:1648:ASN:N	2.09	0.51
2:AB:52:LEU:HB3	2:AB:61:LEU:CD1	2.41	0.51
2:AB:244:THR:O	2:AB:244:THR:OG1	2.29	0.51
1:BA:928:MET:HG2	2:BB:955:PRO:HG3	1.92	0.51
1:BA:1586:ALA:O	1:BA:1589:MET:N	2.44	0.51
2:BB:14:ALA:HB2	2:BB:980:ASP:CB	2.41	0.51
2:BB:66:LYS:C	2:BB:68:ILE:H	2.13	0.51
3:BC:137:ASN:CG	3:BC:203:SER:HB2	2.32	0.51
13:BM:16:GLN:HG3	13:BM:17:ASP:H	1.74	0.51
14:BN:75:GLU:H	14:BN:91:ASP:CB	2.24	0.51
7:BO:307:GLU:O	7:BO:309:VAL:N	2.41	0.51
1:CA:521:GLN:O	1:CA:524:ILE:HB	2.10	0.51
1:CA:1263:LEU:HA	1:CA:1498:ILE:HD11	1.93	0.51
2:CB:1180:PHE:O	2:CB:1182:LEU:N	2.44	0.51
7:CO:274:SER:OG	7:CO:275:ASN:N	2.43	0.51
1:DA:214:ASP:OD2	5:DE:177:ARG:NH2	2.44	0.51
2:DB:656:LEU:HG	2:DB:687:THR:O	2.11	0.51
2:DB:915:ASP:OD1	2:DB:1038:HIS:ND1	2.43	0.51
7:DG:158:LYS:O	7:DG:162:ILE:HG13	2.11	0.51
13:DM:58:GLU:HG2	13:DM:59:ARG:N	2.25	0.51
1:EA:785:GLN:O	1:EA:794:VAL:HG22	2.11	0.51
1:EA:850:SER:O	1:EA:853:THR:N	2.37	0.51
1:EA:976:ALA:HB1	1:EA:981:TYR:HB3	1.93	0.51
3:EC:128:ASP:C	3:EC:130:ASN:H	2.15	0.51
5:EE:33:GLU:O	5:EE:36:GLU:N	2.44	0.51
1:FA:113:VAL:HG22	1:FA:182:LYS:NZ	2.25	0.51
1:FA:519:LEU:HD13	1:FA:577:VAL:HB	1.92	0.51
4:FD:94:ARG:HD2	4:FD:99:LEU:HD13	1.92	0.51
5:FE:26:ARG:NH2	5:FE:133:GLU:OE1	2.42	0.51
5:FE:157:SER:OG	5:FE:160:GLU:HG3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:FG:166:TRP:CE2	7:FG:219:ASP:HB2	2.45	0.51
11:FK:118:GLN:O	11:FK:121:LEU:N	2.43	0.51
14:FN:70:LEU:HG	14:FN:70:LEU:O	2.09	0.51
7:FO:301:LYS:NZ	7:FO:307:GLU:OE1	2.40	0.51
1:AA:701:ARG:O	1:AA:704:ASP:HB2	2.12	0.50
1:AA:783:LYS:HE3	1:AA:932:GLY:HA3	1.93	0.50
1:AA:794:VAL:HG23	1:AA:795:HIS:N	2.22	0.50
2:AB:898:LEU:HD13	12:AL:46:VAL:HG11	1.93	0.50
3:AC:69:ARG:HD3	11:AK:71:THR:OG1	2.10	0.50
10:AJ:54:VAL:C	10:AJ:56:LEU:H	2.14	0.50
1:CA:20:THR:HG23	1:CA:23:GLU:HG3	1.93	0.50
1:CA:122:LEU:O	1:CA:126:GLN:HG3	2.11	0.50
1:CA:1490:GLU:O	1:CA:1493:CYS:HB2	2.11	0.50
2:CB:94:LYS:O	2:CB:146:ASN:N	2.20	0.50
3:CC:95:GLU:HG2	3:CC:96:VAL:N	2.27	0.50
7:CG:29:ASP:OD1	7:CG:29:ASP:N	2.40	0.50
7:CG:50:ALA:HA	7:CG:113:PHE:CE2	2.46	0.50
1:DA:505:LEU:HD13	1:DA:637:PHE:HB2	1.93	0.50
1:DA:1019:LEU:HD21	1:DA:1194:GLY:CA	2.41	0.50
1:DA:1555:VAL:HG13	1:DA:1556:GLU:N	2.26	0.50
2:DB:532:HIS:ND1	2:DB:700:LEU:HD13	2.26	0.50
2:DB:1037:ARG:O	2:DB:1039:MET:N	2.43	0.50
1:EA:460:LEU:O	1:EA:466:LEU:HB3	2.11	0.50
1:EA:597:LYS:HB2	2:EB:1082:HIS:NE2	2.26	0.50
1:EA:722:PRO:HD2	8:EH:46:LEU:HD13	1.92	0.50
1:EA:1056:ASP:OD1	1:EA:1057:ILE:N	2.44	0.50
2:EB:35:PHE:O	2:EB:38:LEU:HD23	2.11	0.50
2:EB:302:LEU:HD11	2:EB:379:ARG:CZ	2.40	0.50
1:FA:1342:PRO:HD2	2:FB:272:PRO:HG3	1.91	0.50
1:FA:1450:ILE:O	1:FA:1454:HIS:ND1	2.39	0.50
2:FB:210:ARG:NH2	2:FB:625:GLU:OE1	2.44	0.50
2:FB:1000:LEU:HD13	2:FB:1009:GLY:HA2	1.92	0.50
1:AA:697:TYR:HE1	1:AA:702:PRO:CD	2.23	0.50
1:AA:1589:MET:O	1:AA:1596:LEU:HB2	2.10	0.50
2:AB:326:VAL:O	2:AB:330:LEU:HG	2.11	0.50
2:AB:876:SER:O	2:AB:878:GLU:N	2.37	0.50
2:AB:887:LEU:HB3	2:AB:901:VAL:HG13	1.92	0.50
3:AC:100:ARG:HH12	3:AC:193:LEU:CA	2.23	0.50
9:AI:10:CYS:HB3	9:AI:13:CYS:SG	2.51	0.50
13:AM:10:ILE:HG22	13:AM:11:GLU:N	2.25	0.50
1:BA:39:ASP:OD2	1:BA:43:HIS:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:591:ARG:HB2	1:BA:633:MET:HG2	1.93	0.50
1:BA:1263:LEU:HA	1:BA:1498:ILE:HD11	1.93	0.50
2:BB:572:PRO:HG2	13:BM:70:SER:HB2	1.93	0.50
2:BB:644:GLY:HA2	2:BB:648:ARG:CZ	2.41	0.50
2:BB:744:LEU:HD12	2:BB:745:GLN:H	1.76	0.50
2:BB:775:VAL:H	2:BB:1028:VAL:HG12	1.77	0.50
2:BB:776:ILE:HD12	2:BB:777:SER:H	1.75	0.50
14:BN:149:ASP:O	14:BN:153:VAL:HG12	2.12	0.50
1:CA:727:THR:OG1	1:CA:728:GLY:N	2.43	0.50
1:CA:1104:TYR:CE2	1:CA:1119:LYS:HD2	2.45	0.50
1:CA:1218:GLY:O	1:CA:1222:LEU:HD22	2.11	0.50
1:CA:1344:ILE:CD1	1:CA:1344:ILE:H	2.23	0.50
1:CA:1545:ASP:CG	1:CA:1546:VAL:N	2.65	0.50
2:CB:974:LEU:O	10:CJ:47:ARG:NH1	2.44	0.50
2:CB:1178:ILE:O	2:CB:1178:ILE:HG13	2.10	0.50
3:CC:310:PRO:O	3:CC:313:ILE:N	2.44	0.50
5:CE:33:GLU:O	5:CE:36:GLU:N	2.44	0.50
5:CE:157:SER:OG	5:CE:160:GLU:HG3	2.11	0.50
1:DA:76:GLN:NE2	2:DB:1111:LEU:HD12	2.17	0.50
1:DA:943:ILE:HA	1:DA:986:PHE:HB2	1.94	0.50
1:DA:1142:ASP:O	1:DA:1145:GLU:N	2.45	0.50
1:DA:1247:SER:OG	1:DA:1248:ASP:N	2.43	0.50
2:DB:975:HIS:NE2	2:DB:1003:ALA:HB2	2.26	0.50
10:DJ:18:TRP:O	10:DJ:22:LEU:HG	2.10	0.50
13:DM:77:VAL:HG21	14:DN:64:ILE:HD12	1.92	0.50
1:EA:9:SER:OG	4:ED:20:VAL:HG21	2.11	0.50
1:EA:239:PHE:CG	1:EA:260:GLN:HG2	2.46	0.50
1:EA:808:LYS:O	1:EA:809:VAL:C	2.49	0.50
1:EA:1472:PHE:O	1:EA:1473:LYS:HB3	2.11	0.50
1:EA:1640:ARG:O	1:EA:1644:GLY:N	2.40	0.50
2:EB:117:VAL:HG12	2:EB:118:GLU:H	1.76	0.50
2:EB:138:LEU:O	2:EB:139:LEU:HD23	2.12	0.50
2:EB:290:ASP:O	2:EB:292:ILE:N	2.44	0.50
5:EE:55:ARG:NH2	5:EE:113:GLN:OE1	2.44	0.50
5:EE:143:ASN:O	5:EE:145:THR:N	2.44	0.50
1:FA:91:PHE:CD2	1:FA:249:THR:HG22	2.46	0.50
1:FA:920:PHE:CG	1:FA:921:PRO:HA	2.47	0.50
1:FA:985:ARG:HG2	1:FA:988:SER:H	1.76	0.50
2:FB:972:GLY:CA	2:FB:977:ILE:HG22	2.40	0.50
2:FB:1153:ILE:HD12	2:FB:1154:ASP:H	1.75	0.50
3:FC:222:VAL:C	3:FC:224:THR:H	2.14	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FC:227:TYR:HA	3:FC:299:ILE:O	2.11	0.50
7:FG:229:LEU:HD12	7:FG:230:ARG:H	1.76	0.50
11:FK:51:THR:O	11:FK:54:THR:OG1	2.27	0.50
1:AA:23:GLU:OE1	2:AB:1195:ARG:NH1	2.44	0.50
1:AA:1028:GLU:OE1	1:AA:1638:SER:HB2	2.11	0.50
2:AB:549:CYS:H	2:AB:550:ARG:NH1	2.09	0.50
2:AB:834:LYS:HB2	1:BA:553:GLN:NE2	2.26	0.50
1:BA:678:VAL:HG22	1:BA:781:LEU:O	2.11	0.50
1:BA:706:HIS:NE2	1:BA:739:VAL:O	2.41	0.50
1:BA:1264:SER:HG	1:BA:1494:ARG:HA	1.77	0.50
1:BA:1556:GLU:O	1:BA:1559:ARG:HB3	2.12	0.50
1:BA:1601:GLN:O	1:BA:1603:MET:N	2.38	0.50
2:BB:876:SER:O	2:BB:878:GLU:N	2.36	0.50
2:BB:983:PRO:HB2	2:BB:984:TRP:CE3	2.46	0.50
3:BC:128:ASP:C	3:BC:130:ASN:H	2.14	0.50
1:CA:136:LEU:HD13	1:CA:189:VAL:HG23	1.93	0.50
1:CA:209:THR:HG21	5:CE:174:GLN:HG3	1.93	0.50
1:CA:709:ARG:C	1:CA:711:LYS:H	2.12	0.50
1:CA:1647:ASN:HD22	1:CA:1648:ASN:H	1.58	0.50
2:CB:1160:GLU:HG2	2:CB:1166:LYS:HG2	1.94	0.50
3:CC:128:ASP:C	3:CC:130:ASN:H	2.14	0.50
8:CH:5:LEU:CB	8:CH:60:ALA:HA	2.37	0.50
8:CH:116:TYR:HB2	8:CH:123:MET:SD	2.51	0.50
11:CK:90:GLY:O	11:CK:103:ILE:HD13	2.11	0.50
12:CL:63:ARG:HG2	12:CL:64:LEU:N	2.23	0.50
1:DA:480:ALA:HB2	2:DB:1046:VAL:HA	1.92	0.50
1:DA:692:TYR:O	1:DA:696:ILE:HG12	2.11	0.50
5:DE:133:GLU:HB3	5:DE:135:PHE:CE1	2.43	0.50
6:DF:119:ARG:HA	6:DF:122:MET:HG3	1.93	0.50
12:DL:38:LEU:HD12	12:DL:49:LYS:HD3	1.92	0.50
1:EA:126:GLN:NE2	1:EA:340:HIS:O	2.43	0.50
1:EA:521:GLN:O	1:EA:524:ILE:HB	2.11	0.50
1:EA:794:VAL:HG23	1:EA:795:HIS:N	2.20	0.50
1:EA:1104:TYR:CE2	1:EA:1119:LYS:HD2	2.46	0.50
1:EA:1217:LEU:HD11	1:EA:1572:ARG:CD	2.41	0.50
2:EB:72:VAL:HA	2:EB:95:LEU:O	2.11	0.50
2:EB:181:VAL:HG22	10:EJ:63:TYR:OH	2.11	0.50
2:EB:542:LEU:C	2:EB:543:ASN:HD22	2.15	0.50
2:EB:789:ILE:HD11	2:EB:947:ILE:HG12	1.93	0.50
2:EB:998:GLU:O	2:EB:1001:ALA:N	2.45	0.50
2:EB:1178:ILE:HD12	2:EB:1182:LEU:HB3	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:EC:81:GLU:OE1	3:EC:81:GLU:HA	2.11	0.50
4:ED:22:ILE:CD1	7:EG:45:LEU:HA	2.41	0.50
1:FA:1057:ILE:H	1:FA:1057:ILE:HD12	1.76	0.50
1:FA:1555:VAL:CG1	5:FE:178:ILE:HD13	2.42	0.50
3:FC:66:ALA:O	3:FC:70:ILE:HG13	2.11	0.50
12:FL:30:ILE:HD12	12:FL:59:ALA:HB2	1.94	0.50
1:AA:521:GLN:O	1:AA:524:ILE:HB	2.11	0.50
1:AA:697:TYR:HE1	1:AA:702:PRO:HD3	1.77	0.50
1:AA:936:SER:O	1:AA:940:VAL:HG23	2.11	0.50
3:AC:150:SER:OG	3:AC:155:GLU:OE2	2.17	0.50
4:AD:22:ILE:CD1	7:AG:45:LEU:HA	2.42	0.50
9:AI:23:VAL:HG21	9:AI:28:VAL:HG13	1.93	0.50
9:AI:65:SER:OG	9:AI:66:VAL:N	2.45	0.50
1:BA:778:CYS:SG	1:BA:779:GLY:N	2.85	0.50
1:BA:960:MET:O	1:BA:963:GLY:N	2.37	0.50
3:BC:66:ALA:O	3:BC:70:ILE:HG13	2.12	0.50
7:BG:80:VAL:HG12	7:BG:82:LEU:HD23	1.92	0.50
10:BJ:54:VAL:C	10:BJ:56:LEU:H	2.13	0.50
12:BL:30:ILE:O	12:BL:57:LEU:HD12	2.10	0.50
1:CA:429:THR:HG21	7:CO:274:SER:HB3	1.93	0.50
1:CA:505:LEU:HD13	1:CA:637:PHE:HB2	1.93	0.50
1:CA:618:TYR:HB3	1:CA:670:ILE:CD1	2.39	0.50
1:CA:753:ASN:OD1	1:CA:755:ILE:N	2.45	0.50
2:CB:178:TYR:O	2:CB:182:GLN:HG2	2.12	0.50
2:CB:215:MET:O	2:CB:234:ILE:HD13	2.11	0.50
2:CB:380:LYS:HE3	2:CB:637:TYR:CB	2.41	0.50
2:CB:542:LEU:C	2:CB:543:ASN:HD22	2.14	0.50
5:CE:177:ARG:HD3	5:CE:215:MET:HB2	1.93	0.50
8:CH:33:GLN:HG3	8:CH:131:ASN:HD21	1.76	0.50
11:CK:83:ASN:HB3	11:CK:86:VAL:HG23	1.93	0.50
13:CM:78:VAL:HG23	14:CN:55:LEU:HD13	1.93	0.50
7:CO:278:ILE:HB	7:DG:159:LYS:HZ2	1.76	0.50
1:DA:674:ILE:O	1:DA:678:VAL:HG23	2.12	0.50
2:DB:73:ILE:HG13	2:DB:429:ARG:NH2	2.25	0.50
2:DB:302:LEU:HD11	2:DB:379:ARG:CZ	2.41	0.50
2:DB:425:ILE:HG22	2:DB:426:ALA:N	2.26	0.50
2:DB:874:TYR:CZ	2:DB:876:SER:HB2	2.47	0.50
7:DG:155:ALA:HA	7:DG:245:VAL:HB	1.94	0.50
11:DK:90:GLY:O	11:DK:103:ILE:HD13	2.11	0.50
7:DO:266:GLN:O	7:DO:269:SER:N	2.35	0.50
1:EA:447:THR:HG1	1:EA:451:VAL:N	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1057:ILE:HD12	1:EA:1057:ILE:H	1.76	0.50
1:EA:1314:GLN:O	1:EA:1318:SER:HB3	2.11	0.50
1:EA:1447:GLN:NE2	1:EA:1459:LYS:HG2	2.26	0.50
2:EB:214:PRO:HB3	2:EB:377:MET:CE	2.41	0.50
2:EB:649:MET:HE3	2:EB:666:PRO:HG2	1.92	0.50
2:EB:1073:GLU:H	2:EB:1073:GLU:CD	2.15	0.50
6:EF:67:LYS:O	6:EF:71:GLU:HG3	2.11	0.50
7:EO:290:GLU:C	7:EO:292:HIS:N	2.65	0.50
1:FA:470:HIS:O	2:FB:1058:GLN:NE2	2.43	0.50
1:FA:492:THR:HG23	1:FA:811:SER:OG	2.11	0.50
1:FA:659:THR:HG22	1:FA:666:VAL:HG22	1.93	0.50
1:FA:1291:VAL:HA	1:FA:1473:LYS:HB2	1.93	0.50
1:FA:1457:ILE:HA	1:FA:1474:LEU:CD2	2.40	0.50
1:FA:1562:ILE:O	1:FA:1566:ILE:HG13	2.11	0.50
2:FB:290:ASP:OD1	13:FM:28:LYS:HE2	2.12	0.50
3:FC:223:SER:HB2	3:FC:303:GLU:HB3	1.92	0.50
3:FC:230:LEU:O	3:FC:294:VAL:HG23	2.11	0.50
7:FG:139:ILE:CD1	7:FG:140:GLN:H	2.24	0.50
11:FK:61:ALA:O	11:FK:104:ARG:HD2	2.12	0.50
1:AA:36:THR:HG22	1:AA:37:VAL:N	2.27	0.50
1:AA:680:LEU:HD12	1:AA:820:TYR:CD1	2.46	0.50
1:AA:934:LYS:HE2	2:AB:956:SER:OG	2.12	0.50
1:AA:1005:GLY:HA3	9:AI:100:GLN:O	2.11	0.50
1:AA:1291:VAL:HG22	1:AA:1473:LYS:CD	2.42	0.50
1:AA:1555:VAL:HG11	5:AE:178:ILE:HD13	1.93	0.50
1:AA:1656:VAL:HG23	7:AG:107:ILE:HB	1.94	0.50
2:AB:625:GLU:HB2	2:AB:643:PHE:O	2.12	0.50
3:AC:128:ASP:C	3:AC:130:ASN:H	2.15	0.50
11:AK:46:LYS:HE3	11:AK:66:VAL:O	2.11	0.50
13:AM:89:GLN:O	13:AM:90:LEU:HD23	2.11	0.50
1:BA:425:ASN:OD1	7:BO:272:ILE:HG13	2.11	0.50
1:BA:892:LEU:HG	1:BA:893:ASP:N	2.26	0.50
1:BA:1252:ASP:HA	1:BA:1255:CYS:SG	2.52	0.50
7:BG:29:ASP:OD1	7:BG:29:ASP:N	2.36	0.50
7:BG:105:ILE:HG12	7:BG:116:THR:CB	2.41	0.50
2:CB:420:TYR:CE1	2:CB:424:ILE:HD11	2.47	0.50
2:CB:843:ASP:OD1	2:CB:845:LEU:HG	2.12	0.50
3:CC:97:LEU:O	3:CC:100:ARG:HB2	2.12	0.50
3:CC:253:PRO:CG	14:CN:180:PHE:CD1	2.94	0.50
1:DA:795:HIS:O	1:DA:798:HIS:HB3	2.12	0.50
2:DB:138:LEU:O	2:DB:139:LEU:HD23	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:127:TYR:HD1	1:EA:202:THR:HG21	1.77	0.50
1:EA:416:ARG:O	1:EA:419:ILE:HB	2.11	0.50
1:EA:1218:GLY:O	1:EA:1222:LEU:HD22	2.11	0.50
10:EJ:48:ARG:HB3	10:EJ:48:ARG:HH11	1.76	0.50
12:EL:32:ALA:HB3	12:EL:55:ILE:HG13	1.94	0.50
1:FA:127:TYR:HD1	1:FA:202:THR:HG21	1.76	0.50
1:FA:701:ARG:O	1:FA:704:ASP:HB2	2.12	0.50
1:FA:753:ASN:OD1	1:FA:755:ILE:N	2.43	0.50
1:FA:1073:TYR:CE1	1:FA:1077:LEU:HD22	2.47	0.50
1:FA:1242:ILE:CD1	1:FA:1517:ARG:HB3	2.42	0.50
1:FA:1559:ARG:NH2	5:FE:200:ARG:HD3	2.26	0.50
2:FB:841:ASP:HB3	2:FB:843:ASP:OD1	2.11	0.50
1:AA:611:GLU:CD	1:AA:615:ARG:HD2	2.31	0.50
1:AA:1144:LEU:O	1:AA:1148:LEU:HB2	2.11	0.50
1:AA:1202:LEU:HD22	9:AI:99:LEU:HD22	1.92	0.50
1:AA:1596:LEU:HD22	1:AA:1602:GLY:HA2	1.92	0.50
2:AB:277:LEU:HG	2:AB:374:LEU:HD21	1.92	0.50
2:AB:733:LEU:HD22	10:AJ:60:PHE:HE2	1.77	0.50
2:AB:748:GLN:HB3	10:AJ:52:THR:O	2.12	0.50
2:AB:843:ASP:HB2	2:AB:845:LEU:HD21	1.93	0.50
12:AL:32:ALA:HB3	12:AL:55:ILE:HG13	1.93	0.50
1:BA:468:ARG:HD2	1:BA:1021:ARG:NH1	2.26	0.50
1:BA:507:TYR:HB3	1:BA:579:ARG:HH12	1.74	0.50
1:BA:1620:GLN:O	1:BA:1623:THR:N	2.45	0.50
2:BB:1198:TYR:H	2:BB:1198:TYR:HD2	1.53	0.50
1:CA:713:VAL:HG12	1:CA:714:THR:H	1.77	0.50
1:CA:808:LYS:O	1:CA:809:VAL:C	2.50	0.50
1:CA:1326:GLU:HG2	1:CA:1456:PHE:HD2	1.76	0.50
2:CB:703:LEU:HD21	2:CB:757:TYR:HD2	1.76	0.50
2:CB:898:LEU:HD22	12:CL:46:VAL:HG22	1.93	0.50
3:CC:80:ALA:HA	3:CC:208:CYS:HB3	1.92	0.50
5:CE:72:PHE:CZ	5:CE:155:ARG:HG2	2.47	0.50
7:CG:93:ASP:HB2	7:CG:104:LEU:HD12	1.92	0.50
7:CG:235:ASN:HB3	7:CG:246:ASP:HB3	1.94	0.50
1:DA:536:ILE:HG12	1:DA:577:VAL:HG22	1.94	0.50
1:DA:1144:LEU:O	1:DA:1148:LEU:HB2	2.11	0.50
2:DB:38:LEU:HD22	2:DB:38:LEU:H	1.77	0.50
2:DB:72:VAL:HA	2:DB:95:LEU:O	2.12	0.50
2:DB:203:ILE:CD1	2:DB:203:ILE:H	2.18	0.50
2:DB:277:LEU:HG	2:DB:374:LEU:HD21	1.93	0.50
2:DB:774:ALA:HA	2:DB:1028:VAL:CG1	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:519:LEU:O	1:EA:523:VAL:HG23	2.12	0.50
1:EA:854:GLY:O	1:EA:974:THR:HB	2.11	0.50
1:EA:885:ASP:O	1:EA:889:SER:HB3	2.11	0.50
1:EA:1276:THR:HG23	1:EA:1288:ARG:NH1	2.27	0.50
5:EE:32:GLN:O	5:EE:35:VAL:HB	2.12	0.50
1:FA:339:PHE:O	1:FA:1629:ASN:HB2	2.11	0.50
2:FB:14:ALA:HB2	2:FB:980:ASP:CB	2.42	0.50
2:FB:244:THR:O	2:FB:244:THR:OG1	2.23	0.50
2:FB:250:LEU:HD11	2:FB:378:ILE:HD13	1.93	0.50
2:FB:526:GLY:HA2	2:FB:696:ILE:HG22	1.93	0.50
2:FB:848:ILE:HD11	12:FL:58:LYS:CD	2.38	0.50
5:FE:64:PRO:HG2	5:FE:75:MET:HB3	1.94	0.50
1:AA:1559:ARG:NH2	5:AE:200:ARG:HD3	2.27	0.50
5:AE:137:GLU:C	5:AE:139:ALA:H	2.15	0.50
6:AF:100:GLN:HG2	7:AG:112:PRO:HB3	1.94	0.50
1:BA:1144:LEU:O	1:BA:1148:LEU:HB2	2.12	0.50
2:BB:38:LEU:HD21	2:BB:760:TYR:O	2.12	0.50
2:BB:260:PHE:CD2	2:BB:276:ILE:HG12	2.47	0.50
2:BB:360:VAL:HA	2:BB:370:LYS:NZ	2.23	0.50
7:BG:41:VAL:O	7:BG:122:LEU:HB2	2.12	0.50
9:BI:2:SER:O	9:BI:9:PHE:N	2.40	0.50
7:BO:291:SER:HA	7:BO:294:GLU:OE2	2.12	0.50
1:CA:239:PHE:CG	1:CA:260:GLN:HG2	2.47	0.50
1:CA:1040:ASP:CG	1:CA:1041:ALA:H	2.15	0.50
3:CC:160:ALA:HA	3:CC:196:LEU:HD12	1.94	0.50
3:CC:216:HIS:ND1	3:CC:218:LYS:HB3	2.27	0.50
13:CM:10:ILE:HG22	13:CM:11:GLU:H	1.75	0.50
1:DA:487:ASP:OD1	2:DB:781:TYR:OH	2.16	0.50
2:DB:1044:PHE:O	2:DB:1045:GLN:HB3	2.10	0.50
3:DC:83:VAL:HG12	3:DC:204:LEU:HD12	1.93	0.50
5:DE:72:PHE:CZ	5:DE:155:ARG:HG2	2.47	0.50
6:DF:60:GLN:O	6:DF:64:ILE:HG13	2.11	0.50
7:DG:46:TYR:CD1	7:DG:117:TRP:CD1	2.99	0.50
8:DH:15:VAL:HG22	8:DH:26:ILE:HG12	1.93	0.50
11:DK:61:ALA:O	11:DK:104:ARG:HD2	2.12	0.50
1:EA:189:VAL:O	1:EA:193:ILE:HG13	2.11	0.50
1:EA:497:VAL:HG23	1:EA:606:ARG:O	2.11	0.50
2:EB:789:ILE:CD1	2:EB:947:ILE:HG12	2.42	0.50
2:EB:858:ILE:HG12	2:EB:859:CYS:N	2.27	0.50
2:EB:1047:ARG:HG3	2:EB:1068:GLY:HA2	1.92	0.50
7:EG:39:VAL:HB	7:EG:126:GLN:HE21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:EN:148:ILE:HD13	14:EN:150:TYR:OH	2.11	0.50
1:FA:892:LEU:O	1:FA:896:THR:OG1	2.29	0.50
1:FA:1062:HIS:HD2	1:FA:1068:PHE:CD1	2.30	0.50
2:FB:18:THR:HA	2:FB:21:ARG:HH21	1.75	0.50
2:FB:73:ILE:HG23	2:FB:74:PHE:N	2.27	0.50
2:FB:162:PRO:HB2	2:FB:409:TYR:OH	2.12	0.50
2:FB:215:MET:O	2:FB:234:ILE:HD13	2.12	0.50
2:FB:1002:LYS:O	14:FN:168:LEU:HD23	2.12	0.50
3:FC:172:GLN:H	3:FC:175:GLN:HB2	1.77	0.50
9:FI:11:LEU:HD12	9:FI:11:LEU:H	1.77	0.50
9:FI:94:MET:HG2	9:FI:114:CYS:HA	1.93	0.50
14:FN:90:MET:O	14:FN:137:PHE:HB3	2.11	0.50
7:FO:277:LYS:HG3	7:FO:281:ASP:OD2	2.12	0.50
3:AC:70:ILE:C	3:AC:72:ILE:H	2.16	0.50
3:AC:253:PRO:HB2	14:AN:180:PHE:CD1	2.47	0.50
4:AD:22:ILE:O	7:AG:76:LYS:NZ	2.44	0.50
11:AK:60:SER:HG	11:AK:104:ARG:HH21	1.55	0.50
14:AN:148:ILE:HD13	14:AN:150:TYR:OH	2.11	0.50
2:BB:332:ASP:HB2	13:BM:114:LYS:HG3	1.94	0.50
7:BG:132:VAL:HG23	7:BG:232:THR:HB	1.93	0.50
1:CA:111:LYS:O	1:CA:115:VAL:HG23	2.12	0.50
1:CA:552:GLU:HB3	2:DB:837:LEU:HD12	1.94	0.50
1:CA:836:THR:OG1	1:CA:837:ALA:N	2.45	0.50
1:CA:987:TYR:C	1:CA:987:TYR:CD2	2.85	0.50
1:CA:1021:ARG:O	1:CA:1025:LYS:HB2	2.11	0.50
1:CA:1094:ALA:HB1	1:CA:1135:SER:HB2	1.94	0.50
1:CA:1102:LEU:CD1	1:CA:1105:ARG:HH21	2.25	0.50
2:CB:140:LYS:HE2	2:CB:153:PHE:HD2	1.77	0.50
3:CC:85:PHE:CG	3:CC:204:LEU:HD13	2.45	0.50
7:CG:132:VAL:HG23	7:CG:232:THR:HB	1.94	0.50
13:CM:77:VAL:O	14:CN:55:LEU:HD12	2.12	0.50
2:DB:164:MET:O	2:DB:167:SER:OG	2.21	0.50
3:DC:160:ALA:HA	3:DC:196:LEU:HD12	1.94	0.50
7:DG:37:CYS:HB3	7:DG:125:TRP:HD1	1.76	0.50
1:EA:58:LEU:HD11	7:EO:295:LEU:HD11	1.92	0.50
1:EA:547:ILE:C	1:EA:549:MET:H	2.14	0.50
2:EB:655:TYR:HD1	2:EB:688:HIS:HE2	1.60	0.50
3:EC:59:ILE:HG12	3:EC:60:ASP:N	2.27	0.50
1:FA:519:LEU:O	1:FA:523:VAL:HG23	2.11	0.50
1:FA:1263:LEU:HA	1:FA:1498:ILE:HD11	1.93	0.50
2:FB:417:ILE:O	2:FB:420:TYR:HB3	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FC:227:TYR:CD1	3:FC:298:PHE:HD2	2.29	0.50
5:FE:112:TYR:CE1	5:FE:136:ASN:HB2	2.47	0.50
8:FH:5:LEU:O	8:FH:6:PHE:HB2	2.11	0.50
10:FJ:54:VAL:HG12	10:FJ:56:LEU:HB2	1.94	0.50
11:FK:54:THR:HG22	11:FK:61:ALA:CA	2.41	0.50
1:AA:956:ARG:HG2	1:AA:979:GLY:O	2.12	0.50
2:AB:161:LEU:HD11	2:AB:409:TYR:CE2	2.47	0.50
6:AF:106:PRO:HG2	7:AG:55:GLU:HG2	1.93	0.50
9:AI:11:LEU:H	9:AI:11:LEU:HD12	1.76	0.50
9:AI:109:THR:HG21	9:AI:122:ARG:NH1	2.27	0.50
14:AN:110:LEU:CD2	14:AN:121:ILE:HA	2.42	0.50
1:BA:11:ILE:HD12	1:BA:11:ILE:O	2.12	0.50
1:BA:579:ARG:HH11	1:BA:579:ARG:HG3	1.76	0.50
1:BA:987:TYR:C	1:BA:987:TYR:CD2	2.85	0.50
2:BB:242:ASP:OD1	2:BB:244:THR:HG23	2.11	0.50
2:BB:626:ILE:N	2:BB:668:GLU:OE2	2.45	0.50
3:BC:77:SER:OG	3:BC:78:VAL:N	2.45	0.50
11:BK:51:THR:O	11:BK:54:THR:OG1	2.27	0.50
1:CA:323:ILE:O	1:CA:327:VAL:HG23	2.12	0.50
1:CA:1440:ASN:O	1:CA:1444:ARG:HB3	2.12	0.50
2:CB:661:GLU:HG3	2:CB:662:ASP:N	2.26	0.50
2:CB:1201:GLU:HG3	2:CB:1203:LYS:H	1.76	0.50
3:CC:230:LEU:O	3:CC:294:VAL:HG23	2.12	0.50
9:CI:94:MET:HG2	9:CI:114:CYS:HA	1.94	0.50
11:CK:115:ASP:O	11:CK:118:GLN:N	2.45	0.50
7:CO:275:ASN:N	7:CO:275:ASN:OD1	2.34	0.50
1:DA:713:VAL:HB	1:DA:738:ASN:HD21	1.76	0.50
1:DA:1170:MET:O	1:DA:1173:LYS:N	2.45	0.50
1:DA:1174:TYR:O	1:DA:1177:SER:N	2.36	0.50
2:DB:264:TRP:NE1	2:DB:265:ARG:HG2	2.27	0.50
2:DB:572:PRO:HG2	13:DM:70:SER:HB2	1.94	0.50
2:DB:624:LEU:HD12	2:DB:625:GLU:H	1.77	0.50
2:DB:916:LYS:HE3	2:DB:1040:VAL:HG13	1.94	0.50
3:DC:209:ILE:HG12	3:DC:210:LEU:N	2.27	0.50
4:DD:90:LYS:HA	4:DD:93:GLN:HG2	1.94	0.50
13:DM:81:PHE:HB2	13:DM:88:ILE:HD13	1.93	0.50
1:EA:121:LYS:O	1:EA:124:LEU:N	2.45	0.50
1:EA:127:TYR:CE2	1:EA:193:ILE:HD13	2.47	0.50
1:EA:579:ARG:HH11	1:EA:579:ARG:HG3	1.77	0.50
1:EA:1512:PRO:HB3	1:EA:1517:ARG:HA	1.93	0.50
2:EB:164:MET:HE3	2:EB:194:PHE:CZ	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:215:MET:HE3	2:EB:394:PRO:HB3	1.93	0.50
2:EB:398:GLN:HB3	2:EB:399:HIS:ND1	2.27	0.50
2:EB:420:TYR:CE1	2:EB:424:ILE:HD11	2.47	0.50
2:EB:661:GLU:HG3	2:EB:662:ASP:N	2.27	0.50
2:EB:902:SER:OG	2:EB:903:ILE:N	2.45	0.50
3:EC:70:ILE:C	3:EC:72:ILE:H	2.14	0.50
3:EC:216:HIS:CE1	3:EC:218:LYS:HB3	2.47	0.50
8:EH:9:ILE:HD13	8:EH:56:THR:HG23	1.93	0.50
14:EN:31:LYS:O	14:EN:33:LYS:N	2.45	0.50
14:EN:64:ILE:C	14:EN:66:LYS:H	2.15	0.50
1:FA:835:LEU:HG	1:FA:985:ARG:NH1	2.19	0.50
2:FB:825:PHE:HZ	2:FB:899:GLN:O	1.95	0.50
2:FB:888:ILE:CD1	12:FL:55:ILE:HA	2.42	0.50
2:FB:1201:GLU:HG3	2:FB:1203:LYS:H	1.75	0.50
7:FG:40:ARG:HB2	7:FG:123:TYR:CE1	2.47	0.50
7:FG:91:ASP:OD2	7:FG:103:LYS:HG2	2.11	0.50
1:AA:32:ILE:HG21	1:AA:49:LEU:HD23	1.94	0.49
1:AA:530:TRP:HZ2	1:AA:582:LYS:HA	1.76	0.49
1:AA:1202:LEU:HD13	9:AI:99:LEU:HD13	1.93	0.49
2:AB:244:THR:HG21	2:AB:414:LYS:HD3	1.93	0.49
7:AG:91:ASP:OD2	7:AG:103:LYS:HG2	2.12	0.49
7:AG:226:ASP:O	2:BB:434:ARG:NH1	2.45	0.49
1:BA:624:TYR:O	1:BA:625:ASN:HB3	2.11	0.49
1:BA:1637:PRO:CB	1:BA:1647:ASN:HD21	2.25	0.49
2:BB:428:VAL:O	2:BB:432:ILE:HD12	2.11	0.49
5:BE:28:TYR:CE1	5:BE:78:LEU:HB3	2.46	0.49
2:CB:858:ILE:HG12	2:CB:859:CYS:N	2.26	0.49
3:CC:83:VAL:HG12	3:CC:204:LEU:HD12	1.93	0.49
3:CC:203:SER:O	3:CC:204:LEU:HB3	2.11	0.49
7:CG:37:CYS:HB3	7:CG:125:TRP:HD1	1.77	0.49
7:CG:158:LYS:O	7:CG:162:ILE:HG13	2.11	0.49
9:CI:101:LEU:HD11	9:CI:122:ARG:HH22	1.77	0.49
14:CN:149:ASP:O	14:CN:153:VAL:HG12	2.11	0.49
7:CO:292:HIS:O	7:CO:295:LEU:HB2	2.12	0.49
1:DA:499:PRO:O	1:DA:501:PHE:N	2.45	0.49
1:DA:794:VAL:HG23	1:DA:795:HIS:N	2.22	0.49
2:DB:260:PHE:HD1	2:DB:261:ARG:N	2.10	0.49
1:EA:584:ARG:HD3	6:EF:116:ASP:HB2	1.92	0.49
1:EA:681:THR:HG21	1:EA:781:LEU:HG	1.94	0.49
1:EA:1066:PHE:HB3	1:EA:1147:PHE:CE2	2.47	0.49
2:EB:219:ARG:HG2	2:EB:221:SER:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:380:LYS:HE3	2:EB:637:TYR:CB	2.42	0.49
2:EB:707:SER:HB2	2:EB:715:ASN:OD1	2.12	0.49
2:EB:829:ASN:HB2	1:FA:538:ASN:HD21	1.75	0.49
4:ED:36:VAL:HG22	7:EG:38:ILE:HG21	1.94	0.49
8:EH:39:THR:HG22	8:EH:124:ARG:HB3	1.93	0.49
13:EM:18:GLN:HG3	13:EM:19:PRO:HD2	1.94	0.49
1:FA:387:SER:HA	1:FA:390:LEU:HD12	1.95	0.49
1:FA:669:LEU:H	1:FA:787:GLY:HA2	1.76	0.49
1:FA:1024:THR:O	1:FA:1028:GLU:N	2.45	0.49
1:FA:1637:PRO:CG	1:FA:1647:ASN:HD21	2.24	0.49
2:FB:362:LEU:HB2	2:FB:370:LYS:HE2	1.93	0.49
3:FC:59:ILE:HD11	3:FC:63:ILE:HB	1.93	0.49
3:FC:224:THR:HB	10:FJ:10:CYS:HB2	1.94	0.49
4:FD:21:VAL:O	4:FD:22:ILE:HD13	2.12	0.49
1:AA:1264:SER:O	9:AI:56:PHE:HB3	2.11	0.49
2:AB:274:VAL:HA	2:AB:277:LEU:HD12	1.94	0.49
2:AB:764:ASN:HB3	10:AJ:59:LYS:NZ	2.27	0.49
2:AB:1002:LYS:HZ3	14:AN:166:LEU:HD13	1.76	0.49
5:AE:87:SER:HA	5:AE:115:ASN:HB3	1.94	0.49
7:AG:66:LEU:HD11	7:AG:87:LEU:HD22	1.94	0.49
14:AN:171:PHE:CE1	14:AN:180:PHE:HE2	2.30	0.49
1:BA:456:VAL:O	1:BA:460:LEU:HG	2.11	0.49
1:BA:1125:ALA:O	5:BE:167:ARG:NH2	2.45	0.49
1:BA:1314:GLN:O	1:BA:1318:SER:HB3	2.12	0.49
2:BB:834:LYS:C	2:BB:836:TRP:N	2.65	0.49
3:BC:209:ILE:HG12	3:BC:210:LEU:N	2.27	0.49
4:BD:22:ILE:HD13	7:BG:46:TYR:H	1.77	0.49
9:BI:23:VAL:HB	9:BI:39:LYS:HE3	1.93	0.49
9:BI:94:MET:HG2	9:BI:114:CYS:HA	1.94	0.49
1:CA:597:LYS:HB2	2:CB:1082:HIS:CE1	2.47	0.49
1:CA:778:CYS:SG	1:CA:779:GLY:N	2.85	0.49
1:CA:1136:VAL:HG22	1:CA:1174:TYR:CE1	2.47	0.49
1:CA:1144:LEU:O	1:CA:1148:LEU:HB2	2.11	0.49
1:CA:1264:SER:HB3	9:CI:56:PHE:CD1	2.46	0.49
2:CB:811:LEU:HD13	2:CB:823:GLN:NE2	2.22	0.49
2:CB:977:ILE:HD13	2:CB:978:ALA:O	2.12	0.49
2:CB:1198:TYR:H	2:CB:1198:TYR:HD2	1.59	0.49
12:CL:32:ALA:HB3	12:CL:55:ILE:HG13	1.93	0.49
13:CM:26:PHE:CZ	13:CM:98:SER:HB2	2.46	0.49
7:CO:273:VAL:HG12	7:CO:274:SER:H	1.77	0.49
1:DA:507:TYR:OH	1:DA:641:GLU:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:15:ASP:O	2:DB:753:LYS:HE3	2.12	0.49
2:DB:203:ILE:H	2:DB:203:ILE:HD12	1.76	0.49
2:DB:398:GLN:HB3	2:DB:399:HIS:ND1	2.28	0.49
2:DB:532:HIS:CD2	2:DB:700:LEU:HD22	2.47	0.49
2:DB:705:PRO:HG3	2:DB:920:ARG:CZ	2.41	0.49
5:DE:20:LYS:NZ	5:DE:37:LEU:HD22	2.27	0.49
13:DM:112:LYS:O	13:DM:113:ILE:HG13	2.13	0.49
2:EB:888:ILE:HG13	12:EL:55:ILE:HA	1.95	0.49
2:EB:903:ILE:N	2:EB:903:ILE:HD12	2.26	0.49
14:EN:55:LEU:C	14:EN:56:ILE:HG13	2.32	0.49
1:FA:1220:PRO:O	1:FA:1223:ARG:HB2	2.12	0.49
1:FA:1264:SER:HB3	9:FI:56:PHE:HD1	1.74	0.49
1:FA:1585:ILE:O	1:FA:1588:MET:HB3	2.13	0.49
2:FB:19:LEU:N	2:FB:19:LEU:HD23	2.27	0.49
2:FB:312:GLY:O	2:FB:316:ARG:HB2	2.12	0.49
2:FB:612:LYS:N	2:FB:620:LEU:HD21	2.27	0.49
2:FB:655:TYR:CZ	2:FB:657:PRO:HG2	2.47	0.49
2:FB:885:VAL:HA	2:FB:903:ILE:HG22	1.93	0.49
13:FM:16:GLN:CG	13:FM:17:ASP:H	2.25	0.49
1:AA:91:PHE:CD2	1:AA:249:THR:HG22	2.47	0.49
1:AA:657:TYR:O	1:AA:665:PRO:HA	2.13	0.49
1:AA:1148:LEU:HD11	1:AA:1167:ARG:HB2	1.92	0.49
2:AB:655:TYR:HD1	2:AB:688:HIS:HE2	1.60	0.49
2:AB:848:ILE:CG1	12:AL:60:ARG:HA	2.42	0.49
14:AN:26:PRO:HB2	14:AN:29:PHE:CD1	2.46	0.49
1:BA:247:GLY:O	1:BA:442:LYS:HG2	2.13	0.49
1:BA:903:ILE:O	1:BA:907:VAL:HG23	2.11	0.49
1:BA:1033:SER:HB3	6:BF:139:PRO:CG	2.36	0.49
1:BA:1237:GLN:HB2	1:BA:1544:ASN:HB2	1.94	0.49
7:BG:229:LEU:HD12	7:BG:230:ARG:H	1.76	0.49
13:BM:15:VAL:HA	13:BM:90:LEU:HB2	1.94	0.49
7:BO:282:ASP:O	7:BO:286:ILE:HG13	2.11	0.49
1:CA:61:LEU:HG	1:CA:67:LEU:O	2.12	0.49
1:CA:1049:MET:HG2	1:CA:1054:ALA:HB2	1.92	0.49
1:CA:1263:LEU:O	1:CA:1265:GLU:N	2.45	0.49
1:CA:1656:VAL:HG23	7:CG:107:ILE:HB	1.93	0.49
2:CB:277:LEU:HG	2:CB:374:LEU:HD21	1.93	0.49
2:CB:675:ALA:HB2	2:CB:686:HIS:CG	2.47	0.49
2:CB:987:ASN:O	2:CB:989:ASP:N	2.45	0.49
2:CB:1198:TYR:CD2	2:CB:1198:TYR:N	2.80	0.49
3:CC:100:ARG:HH12	3:CC:193:LEU:C	2.14	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:CK:58:GLY:C	11:CK:60:SER:N	2.64	0.49
1:DA:476:VAL:HG21	2:DB:1091:ARG:HE	1.77	0.49
1:DA:480:ALA:HB1	1:DA:501:PHE:CZ	2.47	0.49
1:DA:618:TYR:HB3	1:DA:670:ILE:CD1	2.42	0.49
1:DA:1028:GLU:OE1	1:DA:1638:SER:HB2	2.12	0.49
2:DB:168:ASN:OD1	2:DB:169:ARG:HG2	2.13	0.49
2:DB:234:ILE:HB	2:DB:250:LEU:HB2	1.93	0.49
2:DB:379:ARG:CZ	2:DB:580:GLY:HA2	2.43	0.49
3:DC:95:GLU:HG2	3:DC:96:VAL:N	2.27	0.49
7:DG:62:MET:HA	7:DG:66:LEU:HB2	1.93	0.49
7:DO:274:SER:HA	7:DO:277:LYS:HB3	1.94	0.49
1:EA:530:TRP:HZ2	1:EA:582:LYS:HA	1.76	0.49
1:EA:748:ASN:N	1:EA:748:ASN:ND2	2.60	0.49
3:EC:69:ARG:HD3	11:EK:71:THR:OG1	2.11	0.49
5:EE:182:ASP:OD2	5:EE:184:VAL:HG23	2.12	0.49
7:EG:139:ILE:CD1	7:EG:140:GLN:H	2.24	0.49
13:EM:23:VAL:HB	13:EM:95:VAL:HG22	1.93	0.49
13:EM:112:LYS:O	13:EM:113:ILE:HG13	2.13	0.49
1:FA:748:ASN:N	1:FA:748:ASN:ND2	2.59	0.49
1:FA:1247:SER:OG	1:FA:1248:ASP:N	2.45	0.49
2:FB:501:ARG:HG3	2:FB:699:ILE:CD1	2.42	0.49
3:FC:134:LEU:HD23	3:FC:169:PHE:HA	1.95	0.49
6:FF:83:PRO:O	6:FF:151:LEU:HD22	2.12	0.49
7:FG:93:ASP:HB2	7:FG:104:LEU:HD12	1.94	0.49
9:FI:13:CYS:HB3	9:FI:33:CYS:HB3	1.94	0.49
11:FK:135:PHE:CE2	11:FK:139:ILE:HG13	2.47	0.49
12:FL:64:LEU:HD12	12:FL:65:VAL:N	2.27	0.49
1:AA:818:THR:CG2	2:AB:780:GLY:HA3	2.42	0.49
1:AA:1073:TYR:HD2	1:AA:1074:TYR:CE2	2.31	0.49
2:AB:38:LEU:O	2:AB:41:ALA:N	2.34	0.49
2:AB:201:LYS:NZ	2:AB:466:SER:HA	2.27	0.49
2:AB:1053:ASN:ND2	2:AB:1054:SER:H	2.10	0.49
2:AB:1117:VAL:HG21	2:AB:1162:GLY:N	2.28	0.49
7:AO:286:ILE:C	7:AO:288:ASN:H	2.14	0.49
1:BA:123:ARG:HG3	1:BA:193:ILE:HD11	1.94	0.49
1:BA:753:ASN:OD1	1:BA:755:ILE:N	2.45	0.49
1:BA:850:SER:O	1:BA:853:THR:N	2.44	0.49
1:BA:1098:SER:OG	1:BA:1141:GLN:NE2	2.45	0.49
2:BB:301:PHE:CD1	2:BB:302:LEU:HD23	2.47	0.49
2:BB:304:ASP:O	2:BB:308:LEU:HG	2.11	0.49
2:BB:1160:GLU:HG2	2:BB:1166:LYS:HG2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:BC:100:ARG:HH12	3:BC:193:LEU:C	2.14	0.49
5:BE:43:LYS:O	5:BE:47:CYS:HB2	2.12	0.49
7:BG:140:GLN:HB3	7:BG:217:TRP:HD1	1.76	0.49
13:BM:16:GLN:HB3	13:BM:92:LYS:H	1.77	0.49
14:BN:26:PRO:HB2	14:BN:29:PHE:CD1	2.47	0.49
1:CA:476:VAL:HG23	2:CB:1091:ARG:HH21	1.77	0.49
2:CB:628:TYR:HD1	2:CB:640:LEU:HD13	1.76	0.49
5:CE:127:ILE:HD11	5:CE:132:ILE:HD11	1.93	0.49
6:CF:100:GLN:HG2	7:CG:112:PRO:CB	2.42	0.49
11:CK:58:GLY:O	11:CK:60:SER:N	2.45	0.49
13:CM:18:GLN:HG3	13:CM:19:PRO:HD2	1.94	0.49
1:DA:597:LYS:NZ	1:DA:656:GLN:HE22	2.10	0.49
1:DA:1241:PRO:HG3	1:DA:1540:GLY:CA	2.43	0.49
2:DB:1047:ARG:HG3	2:DB:1068:GLY:HA2	1.93	0.49
3:DC:216:HIS:ND1	3:DC:218:LYS:HD2	2.27	0.49
3:DC:277:ARG:HG3	3:DC:291:LEU:HD13	1.95	0.49
9:DI:10:CYS:HB2	9:DI:17:LEU:HD21	1.94	0.49
13:DM:57:ASN:O	13:DM:103:LYS:NZ	2.45	0.49
1:EA:821:ILE:CD1	2:EB:777:SER:HB2	2.42	0.49
1:EA:947:LEU:HB2	1:EA:982:VAL:HG21	1.93	0.49
1:EA:1262:LEU:HD12	1:EA:1264:SER:OG	2.12	0.49
1:EA:1264:SER:HA	1:EA:1267:ILE:HD12	1.95	0.49
1:EA:1559:ARG:O	1:EA:1563:VAL:HG23	2.13	0.49
2:EB:971:ALA:O	2:EB:973:ALA:N	2.45	0.49
3:EC:142:ARG:O	3:EC:144:PRO:HD3	2.13	0.49
3:EC:160:ALA:HA	3:EC:196:LEU:HD12	1.94	0.49
11:EK:128:CYS:O	11:EK:131:VAL:HB	2.11	0.49
1:FA:758:GLU:O	1:FA:761:GLY:N	2.38	0.49
2:FB:887:LEU:HB3	2:FB:901:VAL:HG13	1.94	0.49
2:FB:917:PHE:HD2	2:FB:1035:ARG:HA	1.77	0.49
3:FC:203:SER:O	3:FC:204:LEU:HB3	2.12	0.49
1:AA:753:ASN:OD1	1:AA:755:ILE:N	2.44	0.49
2:AB:751:ILE:HG23	2:AB:752:VAL:HG22	1.94	0.49
5:AE:5:ASN:ND2	5:AE:52:ARG:HH21	2.08	0.49
8:AH:5:LEU:CD2	8:AH:135:LEU:HD23	2.41	0.49
9:AI:33:CYS:HB2	13:AM:60:LEU:CD2	2.43	0.49
1:BA:718:THR:OG1	1:BA:730:GLN:OE1	2.30	0.49
1:BA:1104:TYR:HE2	1:BA:1119:LYS:HD2	1.76	0.49
1:BA:1240:LEU:HD23	1:BA:1541:ILE:HG23	1.95	0.49
1:BA:1637:PRO:HG3	1:BA:1647:ASN:HD21	1.76	0.49
2:BB:72:VAL:HA	2:BB:95:LEU:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:244:THR:HG21	2:BB:414:LYS:HD3	1.95	0.49
2:BB:380:LYS:HG3	2:BB:637:TYR:CD2	2.47	0.49
3:BC:254:GLY:O	3:BC:268:LYS:HB2	2.12	0.49
3:BC:289:VAL:HG12	3:BC:290:LYS:H	1.77	0.49
14:BN:58:PHE:N	14:BN:58:PHE:CD1	2.81	0.49
14:BN:107:MET:N	14:BN:107:MET:SD	2.82	0.49
1:CA:885:ASP:O	1:CA:889:SER:HB3	2.12	0.49
1:CA:1440:ASN:OD1	1:CA:1440:ASN:N	2.45	0.49
1:CA:1585:ILE:O	1:CA:1588:MET:HB3	2.12	0.49
2:CB:304:ASP:O	2:CB:308:LEU:HG	2.12	0.49
3:CC:69:ARG:HD3	11:CK:71:THR:OG1	2.13	0.49
3:CC:136:LEU:HD22	3:CC:167:LEU:HA	1.95	0.49
7:CO:280:PHE:O	7:CO:284:VAL:HG23	2.12	0.49
1:DA:223:PHE:CE2	1:DA:227:LEU:HD11	2.47	0.49
1:DA:468:ARG:HD2	1:DA:1021:ARG:NH1	2.27	0.49
1:DA:809:VAL:HG12	1:DA:810:LEU:N	2.28	0.49
2:DB:878:GLU:OE2	2:DB:907:ILE:HG23	2.12	0.49
3:DC:80:ALA:HA	3:DC:208:CYS:HB3	1.94	0.49
3:DC:100:ARG:HH12	3:DC:193:LEU:C	2.16	0.49
3:DC:181:ASP:O	3:DC:183:PRO:HD3	2.13	0.49
11:DK:58:GLY:O	11:DK:60:SER:N	2.45	0.49
7:DO:290:GLU:OE2	7:DO:291:SER:OG	2.29	0.49
1:EA:247:GLY:O	1:EA:442:LYS:HG2	2.12	0.49
1:EA:631:ASP:OD1	1:EA:631:ASP:N	2.46	0.49
1:EA:804:GLU:H	1:EA:804:GLU:CD	2.15	0.49
1:EA:1456:PHE:HB3	1:EA:1474:LEU:CD1	2.36	0.49
2:EB:45:HIS:H	2:EB:45:HIS:CD2	2.31	0.49
2:EB:834:LYS:C	2:EB:836:TRP:N	2.64	0.49
2:EB:1053:ASN:HD22	2:EB:1054:SER:H	1.60	0.49
2:EB:1117:VAL:HG21	2:EB:1162:GLY:N	2.27	0.49
5:EE:64:PRO:HG2	5:EE:75:MET:HB3	1.95	0.49
12:EL:38:LEU:HD12	12:EL:49:LYS:HD3	1.94	0.49
14:EN:107:MET:SD	14:EN:107:MET:N	2.83	0.49
1:FA:1447:GLN:HE22	1:FA:1459:LYS:HG2	1.77	0.49
2:FB:1038:HIS:CE1	2:FB:1042:ASP:OD2	2.65	0.49
2:FB:1043:LYS:HG2	2:FB:1063:ARG:HG2	1.94	0.49
2:FB:1048:SER:OG	2:FB:1049:THR:N	2.46	0.49
2:FB:1151:ILE:HG22	2:FB:1152:PHE:H	1.78	0.49
3:FC:80:ALA:HA	3:FC:208:CYS:HB3	1.93	0.49
4:FD:36:VAL:HG22	7:FG:38:ILE:HG21	1.94	0.49
1:AA:550:SER:O	1:AA:553:GLN:HG3	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:324:THR:HG23	2:AB:347:LEU:HD21	1.95	0.49
2:AB:996:PHE:HA	2:AB:999:GLN:HG3	1.94	0.49
6:AF:70:LYS:HG3	7:AG:94:PRO:O	2.12	0.49
6:AF:83:PRO:O	6:AF:151:LEU:HD22	2.13	0.49
10:AJ:54:VAL:HG12	10:AJ:56:LEU:HB2	1.94	0.49
13:AM:39:ASP:C	13:AM:53:LEU:HD12	2.32	0.49
14:AN:31:LYS:O	14:AN:33:LYS:N	2.46	0.49
14:AN:107:MET:N	14:AN:107:MET:SD	2.83	0.49
1:BA:90:PHE:CE1	1:BA:1623:THR:HG23	2.48	0.49
1:BA:315:ILE:HG13	1:BA:319:GLU:HB2	1.93	0.49
1:BA:323:ILE:O	1:BA:327:VAL:HG23	2.12	0.49
2:BB:841:ASP:HB3	2:BB:843:ASP:OD1	2.13	0.49
1:CA:1196:PRO:C	1:CA:1198:THR:H	2.15	0.49
3:CC:224:THR:HB	10:CJ:10:CYS:HB2	1.94	0.49
3:CC:253:PRO:HB2	14:CN:180:PHE:CD1	2.48	0.49
6:CF:102:SER:HB3	6:CF:117:PRO:HB3	1.94	0.49
6:CF:123:LYS:O	6:CF:126:ALA:HB3	2.13	0.49
1:DA:253:GLU:O	1:DA:312:SER:HA	2.11	0.49
1:DA:936:SER:O	1:DA:940:VAL:HG23	2.13	0.49
1:DA:1028:GLU:CD	1:DA:1637:PRO:HB2	2.33	0.49
1:DA:1252:ASP:HA	1:DA:1255:CYS:SG	2.52	0.49
2:DB:242:ASP:OD2	2:DB:414:LYS:NZ	2.36	0.49
2:DB:655:TYR:HD1	2:DB:688:HIS:NE2	2.10	0.49
3:DC:209:ILE:HG12	3:DC:210:LEU:O	2.13	0.49
5:DE:64:PRO:HG2	5:DE:75:MET:HB3	1.94	0.49
5:DE:70:SER:OG	5:DE:71:LYS:N	2.43	0.49
9:DI:122:ARG:HG3	9:DI:122:ARG:O	2.13	0.49
1:EA:550:SER:O	1:EA:553:GLN:HG3	2.13	0.49
1:EA:585:ASP:OD1	1:EA:644:ARG:NH1	2.45	0.49
1:EA:669:LEU:H	1:EA:787:GLY:HA2	1.77	0.49
1:EA:1031:HIS:HB2	1:EA:1182:GLY:O	2.12	0.49
2:EB:67:ASP:O	2:EB:68:ILE:HD13	2.13	0.49
2:EB:242:ASP:OD1	2:EB:244:THR:HG23	2.13	0.49
2:EB:1076:ARG:O	2:EB:1080:ILE:HG13	2.11	0.49
3:EC:85:PHE:CG	3:EC:204:LEU:HD13	2.47	0.49
1:FA:778:CYS:SG	1:FA:779:GLY:N	2.85	0.49
1:FA:806:ALA:O	1:FA:809:VAL:N	2.46	0.49
1:FA:1460:TYR:HA	1:FA:1472:PHE:HB3	1.94	0.49
2:FB:21:ARG:HD3	2:FB:763:ASP:HB3	1.94	0.49
4:FD:89:LEU:HD23	4:FD:92:ILE:HD12	1.93	0.49
9:FI:101:LEU:CD1	9:FI:122:ARG:HH22	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:FN:110:LEU:CD2	14:FN:121:ILE:HA	2.42	0.49
1:AA:38:LEU:HB2	7:AO:291:SER:HB3	1.94	0.49
1:AA:722:PRO:HD2	8:AH:46:LEU:HD13	1.95	0.49
2:AB:264:TRP:NE1	2:AB:265:ARG:HG2	2.27	0.49
2:AB:972:GLY:CA	2:AB:977:ILE:HG22	2.43	0.49
1:BA:1104:TYR:CE2	1:BA:1119:LYS:HD2	2.48	0.49
1:BA:1590:THR:OG1	5:BE:212:ARG:NH2	2.46	0.49
1:BA:1647:ASN:HD22	1:BA:1648:ASN:N	2.11	0.49
2:BB:886:ASN:O	2:BB:902:SER:N	2.34	0.49
2:BB:1024:ALA:O	2:BB:1026:ILE:N	2.45	0.49
3:BC:86:PHE:CE2	3:BC:205:LYS:HE3	2.47	0.49
1:CA:467:PHE:O	1:CA:471:MET:HB2	2.13	0.49
1:CA:547:ILE:C	1:CA:549:MET:H	2.16	0.49
1:CA:835:LEU:HG	1:CA:985:ARG:NH1	2.23	0.49
1:CA:1073:TYR:CZ	1:CA:1077:LEU:HD22	2.48	0.49
1:CA:1637:PRO:CB	1:CA:1647:ASN:HD21	2.25	0.49
2:CB:728:THR:HG21	2:CB:765:PHE:HA	1.95	0.49
2:CB:774:ALA:HA	2:CB:1028:VAL:CG1	2.43	0.49
2:CB:1143:THR:CG2	2:CB:1150:LYS:N	2.75	0.49
8:CH:42:ILE:HD13	8:CH:95:TYR:CE2	2.48	0.49
1:DA:372:LYS:HZ3	7:DO:297:LEU:HD21	1.78	0.49
1:DA:478:TYR:N	2:DB:1047:ARG:O	2.45	0.49
1:DA:759:TYR:CE1	1:DA:913:PRO:HG3	2.48	0.49
1:DA:1485:MET:HA	1:DA:1488:ILE:HD12	1.93	0.49
2:DB:380:LYS:HE3	2:DB:637:TYR:CB	2.43	0.49
2:DB:539:CYS:C	2:DB:541:LEU:H	2.15	0.49
2:DB:542:LEU:C	2:DB:543:ASN:HD22	2.16	0.49
3:DC:102:GLY:HA3	12:DL:69:ALA:CB	2.43	0.49
3:DC:135:SER:O	3:DC:168:LYS:HG3	2.13	0.49
9:DI:15:ASP:CG	9:DI:32:GLN:HG3	2.33	0.49
1:EA:753:ASN:OD1	1:EA:755:ILE:N	2.42	0.49
1:EA:835:LEU:HD22	1:EA:915:GLY:O	2.13	0.49
1:EA:920:PHE:CD1	1:EA:921:PRO:HA	2.48	0.49
2:EB:744:LEU:HD12	2:EB:745:GLN:H	1.76	0.49
3:EC:77:SER:OG	3:EC:78:VAL:N	2.44	0.49
4:ED:24:ALA:HA	7:EG:43:ILE:HG22	1.94	0.49
11:EK:83:ASN:HB3	11:EK:86:VAL:HG23	1.94	0.49
1:FA:892:LEU:HG	1:FA:893:ASP:OD1	2.11	0.49
1:FA:985:ARG:HD2	1:FA:987:TYR:HB3	1.95	0.49
1:FA:1117:SER:O	1:FA:1117:SER:OG	2.25	0.49
1:FA:1609:SER:O	1:FA:1612:LYS:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:212:ASN:ND2	2:FB:239:VAL:HG22	2.15	0.49
2:FB:1047:ARG:CZ	2:FB:1059:PRO:HB3	2.42	0.49
3:FC:160:ALA:HA	3:FC:196:LEU:HD12	1.95	0.49
7:FG:26:ASN:ND2	7:FG:37:CYS:SG	2.86	0.49
1:AA:507:TYR:HB3	1:AA:579:ARG:HH12	1.78	0.49
1:AA:669:LEU:HA	1:AA:669:LEU:HD23	1.60	0.49
1:AA:680:LEU:HD12	1:AA:820:TYR:CG	2.48	0.49
1:AA:1637:PRO:CG	1:AA:1647:ASN:HD21	2.25	0.49
2:AB:19:LEU:HD23	2:AB:19:LEU:N	2.27	0.49
2:AB:52:LEU:HD22	2:AB:61:LEU:HD21	1.95	0.49
2:AB:903:ILE:HD13	2:AB:905:TYR:HE1	1.78	0.49
2:AB:917:PHE:HD2	2:AB:1035:ARG:HA	1.78	0.49
2:AB:986:PHE:CD2	2:AB:992:PRO:HG3	2.48	0.49
2:AB:987:ASN:O	2:AB:989:ASP:N	2.46	0.49
2:AB:1047:ARG:CZ	2:AB:1059:PRO:HB3	2.43	0.49
3:AC:310:PRO:O	3:AC:313:ILE:N	2.46	0.49
8:AH:59:ILE:HG13	8:AH:142:LEU:HA	1.95	0.49
11:AK:58:GLY:O	11:AK:60:SER:N	2.45	0.49
1:BA:701:ARG:O	1:BA:704:ASP:HB2	2.13	0.49
1:BA:1102:LEU:HD12	1:BA:1105:ARG:HE	1.78	0.49
1:BA:1463:ASP:HB2	1:BA:1469:TRP:CD1	2.48	0.49
1:BA:1613:MET:HA	1:BA:1618:THR:HA	1.94	0.49
2:BB:1047:ARG:HG3	2:BB:1068:GLY:HA2	1.95	0.49
3:BC:248:GLN:HG3	3:BC:256:ILE:O	2.12	0.49
1:CA:36:THR:HA	7:CO:288:ASN:OD1	2.13	0.49
1:CA:1344:ILE:H	1:CA:1344:ILE:HD12	1.76	0.49
1:CA:1456:PHE:HB3	1:CA:1474:LEU:CD1	2.39	0.49
2:CB:840:LEU:HD12	2:CB:857:PRO:HB2	1.93	0.49
8:CH:5:LEU:O	8:CH:6:PHE:HB2	2.13	0.49
9:CI:122:ARG:HG3	9:CI:122:ARG:O	2.13	0.49
10:CJ:18:TRP:O	10:CJ:22:LEU:HG	2.12	0.49
14:CN:26:PRO:HB2	14:CN:29:PHE:CD1	2.48	0.49
1:DA:927:ALA:O	1:DA:931:SER:OG	2.14	0.49
1:DA:1072:ASN:O	1:DA:1075:ALA:N	2.46	0.49
2:DB:19:LEU:HD23	2:DB:19:LEU:N	2.27	0.49
2:DB:970:LYS:NZ	2:DB:1028:VAL:O	2.40	0.49
2:DB:1053:ASN:HD22	2:DB:1054:SER:H	1.61	0.49
6:DF:100:GLN:HG2	7:DG:112:PRO:CB	2.42	0.49
13:DM:10:ILE:HD12	14:DN:70:LEU:O	2.12	0.49
14:DN:26:PRO:HB2	14:DN:29:PHE:CE1	2.48	0.49
1:EA:82:PRO:HG3	1:EA:393:SER:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:387:SER:HA	1:EA:390:LEU:HD12	1.94	0.49
1:EA:480:ALA:HB1	1:EA:501:PHE:CZ	2.48	0.49
1:EA:956:ARG:HE	1:EA:979:GLY:CA	2.20	0.49
1:EA:1242:ILE:HD11	1:EA:1517:ARG:HB3	1.95	0.49
1:EA:1559:ARG:HD2	1:EA:1587:ASP:OD1	2.12	0.49
2:EB:38:LEU:HD22	2:EB:38:LEU:H	1.78	0.49
2:EB:132:SER:HA	2:EB:195:ILE:O	2.13	0.49
2:EB:345:SER:HA	13:EM:113:ILE:HD11	1.95	0.49
2:EB:350:GLY:O	2:EB:353:VAL:HB	2.13	0.49
2:EB:744:LEU:HD11	2:EB:799:GLY:HA2	1.95	0.49
2:EB:885:VAL:HA	2:EB:903:ILE:HG22	1.95	0.49
2:EB:934:ILE:HG21	3:EC:73:SER:HB3	1.94	0.49
3:EC:245:ARG:HD2	3:EC:245:ARG:H	1.77	0.49
6:EF:101:ILE:HD13	6:EF:120:ILE:HG22	1.95	0.49
8:EH:40:LEU:HD12	8:EH:41:ASP:N	2.28	0.49
8:EH:103:LYS:O	8:EH:104:PHE:HD1	1.96	0.49
1:FA:795:HIS:O	1:FA:798:HIS:HB3	2.13	0.49
1:FA:1162:ASN:O	1:FA:1165:LYS:HB2	2.13	0.49
1:FA:1658:ALA:HB2	7:FG:107:ILE:HD11	1.94	0.49
2:FB:45:HIS:CD2	2:FB:45:HIS:H	2.31	0.49
2:FB:627:GLY:O	2:FB:641:TYR:N	2.46	0.49
2:FB:940:GLU:HB2	2:FB:1012:PRO:HB2	1.93	0.49
3:FC:85:PHE:CG	3:FC:204:LEU:HD13	2.47	0.49
4:FD:31:VAL:HG23	7:FG:38:ILE:HB	1.95	0.49
8:FH:124:ARG:NH1	8:FH:126:GLU:OE1	2.45	0.49
14:FN:155:VAL:HG13	14:FN:156:PRO:HD2	1.95	0.49
1:AA:95:TYR:CZ	1:AA:245:LYS:HB3	2.48	0.49
1:AA:505:LEU:O	1:AA:581:ILE:HG22	2.13	0.49
1:AA:1562:ILE:O	1:AA:1566:ILE:HG13	2.13	0.49
2:AB:117:VAL:HG12	2:AB:118:GLU:H	1.77	0.49
2:AB:655:TYR:CZ	2:AB:657:PRO:HG2	2.48	0.49
2:AB:662:ASP:OD1	2:AB:663:ILE:N	2.46	0.49
3:AC:216:HIS:CE1	3:AC:218:LYS:HB3	2.48	0.49
1:BA:1162:ASN:H	1:BA:1165:LYS:HD2	1.76	0.49
2:BB:874:TYR:CZ	2:BB:876:SER:HB2	2.48	0.49
5:BE:64:PRO:HG2	5:BE:75:MET:HB3	1.95	0.49
13:BM:57:ASN:O	13:BM:103:LYS:NZ	2.45	0.49
1:CA:113:VAL:HG22	1:CA:182:LYS:CE	2.42	0.49
1:CA:939:ASN:O	1:CA:942:GLN:HB2	2.13	0.49
1:CA:1579:PHE:HA	1:CA:1582:LEU:HG	1.95	0.49
2:CB:349:VAL:O	2:CB:353:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:64:PRO:HG2	5:CE:75:MET:HB3	1.95	0.49
1:DA:1559:ARG:HD2	1:DA:1587:ASP:OD1	2.12	0.49
2:DB:972:GLY:CA	2:DB:977:ILE:HG22	2.43	0.49
2:EB:550:ARG:O	2:EB:551:ILE:HD13	2.13	0.49
2:EB:1144:LYS:HG2	2:EB:1150:LYS:HD2	1.94	0.49
8:EH:116:TYR:HB2	8:EH:123:MET:SD	2.52	0.49
13:EM:10:ILE:HB	14:EN:70:LEU:HD21	1.94	0.49
1:FA:555:LYS:O	1:FA:558:ALA:HB3	2.12	0.49
1:FA:579:ARG:HH11	1:FA:579:ARG:HG3	1.78	0.49
1:FA:816:LEU:HG	1:FA:817:PHE:N	2.26	0.49
1:FA:1257:SER:HA	1:FA:1499:ARG:NH2	2.28	0.49
1:FA:1446:ARG:HH12	1:FA:1462:PHE:HB3	1.77	0.49
2:FB:656:LEU:HG	2:FB:687:THR:O	2.12	0.49
3:FC:133:VAL:HG12	3:FC:170:GLU:HB2	1.93	0.49
3:FC:209:ILE:HG12	3:FC:210:LEU:N	2.28	0.49
1:AA:50:TYR:OH	1:AA:370:PRO:HG3	2.13	0.49
1:AA:342:ARG:CZ	1:AA:342:ARG:HB2	2.43	0.49
1:AA:1060:GLU:O	1:AA:1063:MET:N	2.42	0.49
1:AA:1102:LEU:HD22	1:AA:1141:GLN:HE21	1.77	0.49
2:AB:732:ALA:O	2:AB:736:ARG:HG3	2.13	0.49
2:AB:888:ILE:HD11	12:AL:55:ILE:HB	1.95	0.49
2:AB:974:LEU:O	10:AJ:47:ARG:NH1	2.46	0.49
3:AC:209:ILE:HG12	3:AC:210:LEU:N	2.28	0.49
4:AD:85:SER:O	4:AD:88:GLN:N	2.43	0.49
1:BA:32:ILE:HG21	1:BA:49:LEU:HD23	1.95	0.49
1:BA:369:LEU:HD12	2:BB:1054:SER:HB2	1.95	0.49
1:BA:416:ARG:O	1:BA:419:ILE:HB	2.13	0.49
1:BA:550:SER:O	1:BA:553:GLN:HG3	2.13	0.49
1:BA:631:ASP:OD1	1:BA:631:ASP:N	2.45	0.49
1:BA:966:LEU:HD12	1:BA:967:PRO:HD2	1.94	0.49
1:BA:1105:ARG:HH22	1:BA:1138:GLU:CD	2.17	0.49
1:BA:1105:ARG:NH2	1:BA:1138:GLU:OE2	2.46	0.49
1:BA:1325:LEU:HD22	1:BA:1492:ILE:HG21	1.95	0.49
2:BB:138:LEU:O	2:BB:139:LEU:HD23	2.13	0.49
2:BB:190:ILE:HG12	2:BB:191:GLY:N	2.27	0.49
2:BB:476:LEU:HA	2:BB:476:LEU:HD23	1.62	0.49
2:BB:1053:ASN:ND2	2:BB:1054:SER:H	2.11	0.49
3:BC:147:PRO:O	3:BC:149:GLY:N	2.46	0.49
7:BG:155:ALA:HA	7:BG:245:VAL:HB	1.94	0.49
8:BH:15:VAL:HG22	8:BH:26:ILE:HG12	1.95	0.49
11:BK:135:PHE:CE2	11:BK:139:ILE:HG13	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:55:LEU:HB2	14:BN:133:PHE:CZ	2.48	0.49
1:CA:91:PHE:CD2	1:CA:249:THR:HG22	2.47	0.49
1:CA:96:ILE:HG23	1:CA:228:LEU:HD21	1.95	0.49
1:CA:669:LEU:HD13	1:CA:673:HIS:CG	2.48	0.49
1:CA:839:GLY:O	1:CA:842:TRP:HB2	2.12	0.49
1:CA:964:LYS:HB3	1:CA:964:LYS:HE2	1.60	0.49
1:CA:1138:GLU:O	1:CA:1141:GLN:HB3	2.13	0.49
2:CB:655:TYR:CE2	2:CB:657:PRO:HB2	2.47	0.49
2:CB:1047:ARG:HG3	2:CB:1068:GLY:HA2	1.95	0.49
3:CC:245:ARG:HD2	3:CC:245:ARG:N	2.28	0.49
7:CG:40:ARG:HB2	7:CG:123:TYR:CE1	2.48	0.49
8:CH:108:SER:O	8:CH:110:ASP:N	2.46	0.49
1:DA:369:LEU:HD12	2:DB:1054:SER:HB2	1.95	0.49
1:DA:1619:CYS:O	1:DA:1622:LEU:HB3	2.12	0.49
2:DB:94:LYS:O	2:DB:146:ASN:N	2.25	0.49
2:DB:807:GLU:O	2:DB:902:SER:OG	2.08	0.49
7:DG:250:ILE:HG22	7:DG:251:SER:H	1.76	0.49
14:DN:70:LEU:O	14:DN:70:LEU:HG	2.13	0.49
14:DN:149:ASP:O	14:DN:153:VAL:HG12	2.13	0.49
1:EA:537:GLN:HE21	1:EA:541:GLY:HA2	1.78	0.49
1:EA:591:ARG:HB2	1:EA:633:MET:HG2	1.94	0.49
1:EA:721:LYS:H	8:EH:96:VAL:HB	1.78	0.49
1:EA:795:HIS:O	1:EA:798:HIS:HB3	2.13	0.49
1:EA:1310:LYS:O	1:EA:1313:LEU:HB3	2.12	0.49
2:EB:409:TYR:O	2:EB:413:LEU:HB2	2.13	0.49
2:EB:897:GLU:HB3	12:EL:43:THR:HG23	1.94	0.49
2:EB:915:ASP:OD1	2:EB:1038:HIS:ND1	2.46	0.49
5:EE:48:ASP:O	5:EE:50:MET:N	2.46	0.49
1:FA:1028:GLU:HA	1:FA:1187:ILE:CG1	2.42	0.49
1:FA:1028:GLU:OE1	1:FA:1638:SER:HB2	2.13	0.49
1:FA:1296:PHE:O	1:FA:1468:LYS:NZ	2.45	0.49
1:FA:1472:PHE:O	1:FA:1473:LYS:HB3	2.13	0.49
2:FB:190:ILE:HG12	2:FB:191:GLY:N	2.26	0.49
2:FB:532:HIS:CD2	2:FB:700:LEU:HD22	2.48	0.49
2:FB:851:TYR:HD1	2:FB:881:TYR:CE1	2.31	0.49
5:FE:3:GLN:O	5:FE:7:ARG:HG2	2.13	0.49
13:FM:10:ILE:HG22	13:FM:11:GLU:N	2.28	0.49
1:AA:519:LEU:HD13	1:AA:577:VAL:HB	1.95	0.48
1:AA:855:ARG:NH1	1:AA:868:THR:O	2.43	0.48
1:AA:1189:ALA:O	1:AA:1193:VAL:HG23	2.13	0.48
1:AA:1263:LEU:C	1:AA:1265:GLU:H	2.17	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:94:LYS:O	2:AB:146:ASN:N	2.22	0.48
2:AB:776:ILE:HD12	2:AB:777:SER:H	1.77	0.48
2:AB:898:LEU:HD22	12:AL:46:VAL:CG2	2.43	0.48
8:AH:13:SER:N	8:AH:27:GLU:O	2.42	0.48
8:AH:101:ALA:HB2	8:AH:116:TYR:CE1	2.48	0.48
8:AH:103:LYS:O	8:AH:104:PHE:HD1	1.96	0.48
1:BA:122:LEU:O	1:BA:126:GLN:HG3	2.12	0.48
1:BA:659:THR:HG22	1:BA:666:VAL:HG22	1.93	0.48
1:BA:896:THR:HG21	1:BA:956:ARG:NH1	2.28	0.48
2:BB:350:GLY:O	2:BB:353:VAL:HB	2.13	0.48
3:BC:325:ALA:O	3:BC:328:LEU:N	2.43	0.48
13:BM:80:LEU:CD1	14:BN:39:PRO:HD2	2.43	0.48
14:BN:97:SER:OG	14:BN:98:SER:N	2.46	0.48
1:CA:90:PHE:HE1	1:CA:1623:THR:HG23	1.77	0.48
1:CA:1122:PRO:HG3	5:CE:207:ARG:HB3	1.95	0.48
1:CA:1485:MET:O	1:CA:1489:VAL:HG23	2.13	0.48
1:DA:52:LEU:C	1:DA:54:LEU:H	2.16	0.48
1:DA:1073:TYR:CZ	1:DA:1077:LEU:HD22	2.47	0.48
1:DA:1238:MET:HG3	1:DA:1524:VAL:HG22	1.95	0.48
1:DA:1326:GLU:HG2	1:DA:1456:PHE:HD2	1.77	0.48
1:DA:1649:VAL:CG1	2:DB:1083:GLY:HA2	2.43	0.48
3:DC:68:ARG:O	3:DC:72:ILE:HD12	2.13	0.48
3:DC:88:ASN:OD1	3:DC:202:ILE:HD11	2.12	0.48
1:EA:697:TYR:HE1	1:EA:702:PRO:CD	2.26	0.48
1:EA:1072:ASN:O	1:EA:1075:ALA:N	2.46	0.48
1:EA:1240:LEU:HD23	1:EA:1541:ILE:HG23	1.93	0.48
2:EB:533:THR:OG1	2:EB:534:PRO:HD2	2.13	0.48
2:EB:604:ILE:O	2:EB:608:LEU:HG	2.13	0.48
2:EB:787:MET:O	2:EB:788:ILE:HD13	2.12	0.48
2:EB:1047:ARG:CZ	2:EB:1059:PRO:HB3	2.43	0.48
3:EC:147:PRO:O	3:EC:149:GLY:N	2.46	0.48
7:EG:66:LEU:HD11	7:EG:87:LEU:HD22	1.94	0.48
8:EH:13:SER:HB2	8:EH:27:GLU:HB2	1.95	0.48
10:EJ:3:VAL:CG1	10:EJ:15:GLY:HA2	2.43	0.48
1:FA:1168:ALA:O	1:FA:1171:GLN:N	2.46	0.48
1:FA:1549:VAL:HG21	1:FA:1561:THR:HG21	1.95	0.48
2:FB:161:LEU:HD12	2:FB:162:PRO:CD	2.41	0.48
2:FB:845:LEU:HD12	12:FL:58:LYS:HD2	1.95	0.48
2:FB:847:TYR:O	2:FB:882:ILE:HD12	2.13	0.48
2:AB:73:ILE:HG13	2:AB:429:ARG:NH2	2.25	0.48
13:AM:112:LYS:O	13:AM:113:ILE:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:492:THR:HG23	1:BA:811:SER:OG	2.13	0.48
1:BA:659:THR:HG23	1:BA:664:SER:O	2.12	0.48
1:BA:809:VAL:HG12	1:BA:810:LEU:N	2.27	0.48
1:BA:1326:GLU:O	1:BA:1330:VAL:HG23	2.13	0.48
1:BA:1559:ARG:O	1:BA:1563:VAL:HG23	2.13	0.48
2:BB:326:VAL:O	2:BB:330:LEU:HG	2.13	0.48
2:BB:1130:ARG:NH2	2:BB:1195:ARG:HD2	2.27	0.48
11:BK:118:GLN:O	11:BK:121:LEU:N	2.46	0.48
1:CA:1556:GLU:O	1:CA:1559:ARG:HB3	2.13	0.48
2:CB:501:ARG:NH2	2:CB:546:ALA:O	2.46	0.48
3:CC:245:ARG:HD2	3:CC:245:ARG:H	1.78	0.48
7:CG:66:LEU:HD11	7:CG:87:LEU:HD22	1.94	0.48
10:CJ:43:ARG:NH1	10:CJ:46:CYS:SG	2.86	0.48
1:DA:532:GLY:O	1:DA:580:HIS:N	2.24	0.48
1:DA:1104:TYR:HE2	1:DA:1119:LYS:HD2	1.77	0.48
2:DB:323:ARG:O	2:DB:327:LEU:HG	2.13	0.48
2:DB:1201:GLU:HG3	2:DB:1203:LYS:H	1.78	0.48
5:DE:112:TYR:CE1	5:DE:136:ASN:HB2	2.47	0.48
7:DG:41:VAL:O	7:DG:122:LEU:HB2	2.13	0.48
13:DM:89:GLN:O	13:DM:90:LEU:HD23	2.12	0.48
1:EA:1440:ASN:O	1:EA:1444:ARG:HB3	2.13	0.48
2:EB:586:VAL:O	2:EB:593:ILE:HG22	2.13	0.48
5:EE:48:ASP:OD1	5:EE:48:ASP:N	2.45	0.48
5:EE:64:PRO:HB3	5:EE:68:SER:HB2	1.95	0.48
7:EG:46:TYR:CD1	7:EG:117:TRP:HD1	2.31	0.48
9:EI:99:LEU:HB2	9:EI:111:PHE:CZ	2.44	0.48
10:EJ:45:CYS:O	10:EJ:49:MET:HG2	2.13	0.48
13:EM:16:GLN:CG	13:EM:17:ASP:H	2.25	0.48
13:EM:80:LEU:CD1	14:EN:39:PRO:HG2	2.42	0.48
1:FA:253:GLU:O	1:FA:312:SER:HA	2.13	0.48
1:FA:1053:ASP:HB3	5:FE:205:SER:HB2	1.95	0.48
1:FA:1262:LEU:O	1:FA:1265:GLU:HB2	2.13	0.48
1:FA:1273:THR:N	9:FI:48:VAL:HG13	2.28	0.48
1:FA:1314:GLN:O	1:FA:1318:SER:HB3	2.13	0.48
8:FH:40:LEU:HD12	8:FH:41:ASP:N	2.28	0.48
14:FN:85:HIS:HB3	14:FN:87:TYR:CE1	2.48	0.48
1:AA:70:LYS:HE2	1:AA:71:PHE:CE1	2.49	0.48
1:AA:96:ILE:HG23	1:AA:228:LEU:HD21	1.94	0.48
1:AA:1073:TYR:CE1	1:AA:1077:LEU:HD22	2.48	0.48
1:AA:1260:LYS:HA	1:AA:1499:ARG:O	2.13	0.48
1:AA:1446:ARG:HH22	1:AA:1462:PHE:H	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:59:GLY:O	2:AB:62:ASN:N	2.46	0.48
2:AB:714:ARG:HG2	2:AB:959:THR:CG2	2.43	0.48
2:AB:1060:VAL:HG22	2:AB:1061:LYS:N	2.28	0.48
3:AC:227:TYR:CD1	3:AC:298:PHE:HD2	2.31	0.48
4:AD:94:ARG:HD2	4:AD:99:LEU:HD13	1.94	0.48
7:AG:77:VAL:HG11	7:AG:124:VAL:HG21	1.95	0.48
14:AN:26:PRO:HB2	14:AN:29:PHE:CE1	2.48	0.48
7:AO:267:ALA:HA	7:AO:270:LEU:HB2	1.96	0.48
1:BA:91:PHE:CD2	1:BA:249:THR:HG22	2.48	0.48
1:BA:937:ASN:O	1:BA:940:VAL:HB	2.13	0.48
1:BA:1299:ASN:HA	1:BA:1302:TYR:CE2	2.49	0.48
1:BA:1597:ALA:O	1:BA:1602:GLY:HA3	2.13	0.48
2:BB:346:ASP:CG	13:BM:113:ILE:HA	2.33	0.48
14:BN:70:LEU:O	14:BN:70:LEU:HG	2.13	0.48
1:CA:125:LEU:CD1	1:CA:219:LEU:HD12	2.43	0.48
1:CA:555:LYS:O	1:CA:558:ALA:HB3	2.13	0.48
1:CA:806:ALA:O	1:CA:809:VAL:N	2.46	0.48
1:CA:937:ASN:O	1:CA:940:VAL:HB	2.13	0.48
2:CB:548:LYS:HG2	2:CB:550:ARG:NH2	2.27	0.48
2:CB:847:TYR:O	2:CB:882:ILE:HD12	2.13	0.48
2:CB:1024:ALA:O	2:CB:1026:ILE:N	2.46	0.48
2:CB:1060:VAL:HG21	7:CO:311:GLU:OE2	2.13	0.48
1:DA:10:GLU:CG	1:DA:1645:LYS:HE3	2.43	0.48
1:DA:671:GLN:CA	2:DB:952:HIS:HD2	2.27	0.48
1:DA:1010:ALA:HB1	2:DB:536:GLY:HA2	1.94	0.48
1:DA:1117:SER:C	1:DA:1119:LYS:H	2.15	0.48
1:DA:1441:LYS:HA	1:DA:1444:ARG:HD2	1.96	0.48
1:DA:1450:ILE:HG22	1:DA:1457:ILE:HG21	1.95	0.48
2:DB:117:VAL:HG12	2:DB:118:GLU:H	1.79	0.48
2:DB:555:GLN:HE21	2:DB:556:SER:N	2.12	0.48
3:DC:77:SER:OG	3:DC:78:VAL:N	2.45	0.48
3:DC:131:THR:HG22	3:DC:132:ILE:H	1.78	0.48
3:DC:245:ARG:H	3:DC:245:ARG:HD2	1.78	0.48
5:DE:7:ARG:O	5:DE:11:ARG:HG3	2.14	0.48
5:DE:76:GLY:H	5:DE:106:GLN:HG2	1.78	0.48
9:DI:95:ASN:N	9:DI:113:THR:O	2.40	0.48
1:EA:507:TYR:HB3	1:EA:579:ARG:HH12	1.77	0.48
1:EA:1085:LEU:HD13	6:EF:84:TYR:OH	2.13	0.48
1:EA:1326:GLU:HG2	1:EA:1456:PHE:HD2	1.78	0.48
1:EA:1562:ILE:O	1:EA:1566:ILE:HG13	2.14	0.48
2:EB:19:LEU:N	2:EB:19:LEU:HD23	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:260:PHE:HD1	2:EB:261:ARG:N	2.11	0.48
2:EB:274:VAL:HG11	2:EB:313:PHE:HB2	1.96	0.48
2:EB:858:ILE:HD11	2:EB:872:LYS:HB3	1.96	0.48
4:ED:22:ILE:HD12	7:EG:45:LEU:HA	1.94	0.48
8:EH:101:ALA:HB2	8:EH:116:TYR:CE1	2.49	0.48
1:FA:95:TYR:CZ	1:FA:245:LYS:HB3	2.48	0.48
1:FA:127:TYR:CE2	1:FA:193:ILE:HD13	2.48	0.48
1:FA:934:LYS:HE2	2:FB:956:SER:OG	2.13	0.48
1:FA:1218:GLY:O	1:FA:1222:LEU:HD22	2.13	0.48
2:FB:108:MET:SD	2:FB:120:LYS:HA	2.53	0.48
2:FB:870:LYS:HB2	2:FB:870:LYS:HE2	1.49	0.48
11:FK:86:VAL:HG13	11:FK:105:ILE:HG23	1.94	0.48
1:AA:127:TYR:CE2	1:AA:193:ILE:HD13	2.49	0.48
1:AA:416:ARG:O	1:AA:419:ILE:HB	2.14	0.48
1:AA:1049:MET:HG2	1:AA:1054:ALA:HB2	1.93	0.48
1:AA:1450:ILE:HG22	1:AA:1457:ILE:HG21	1.94	0.48
2:AB:707:SER:HB2	2:AB:715:ASN:OD1	2.13	0.48
2:AB:837:LEU:HD22	2:AB:837:LEU:HA	1.63	0.48
2:AB:1060:VAL:HG23	7:AO:314:THR:HB	1.94	0.48
3:AC:216:HIS:ND1	3:AC:218:LYS:HD2	2.28	0.48
5:AE:76:GLY:H	5:AE:106:GLN:HG2	1.78	0.48
6:AF:67:LYS:O	6:AF:71:GLU:HG3	2.13	0.48
8:AH:116:TYR:HB2	8:AH:123:MET:SD	2.53	0.48
11:AK:135:PHE:CE2	11:AK:139:ILE:HG13	2.49	0.48
1:BA:67:LEU:HD13	1:BA:71:PHE:HB3	1.94	0.48
1:BA:692:TYR:O	1:BA:696:ILE:HG12	2.13	0.48
1:BA:1018:TYR:HD2	1:BA:1227:MET:HE1	1.78	0.48
1:BA:1217:LEU:HD13	1:BA:1573:TYR:CE1	2.47	0.48
2:BB:38:LEU:HD22	2:BB:38:LEU:H	1.77	0.48
2:BB:302:LEU:HD11	2:BB:379:ARG:CZ	2.42	0.48
2:BB:470:LEU:HD22	2:BB:484:TYR:HE1	1.79	0.48
2:BB:716:MET:O	2:BB:719:CYS:HB2	2.13	0.48
3:BC:97:LEU:O	3:BC:100:ARG:HB2	2.14	0.48
3:BC:136:LEU:HD13	3:BC:166:ASP:O	2.14	0.48
6:BF:83:PRO:O	6:BF:151:LEU:HD22	2.13	0.48
11:BK:46:LYS:HE3	11:BK:66:VAL:O	2.13	0.48
14:BN:56:ILE:HG22	14:BN:57:LYS:H	1.78	0.48
1:CA:1263:LEU:C	1:CA:1265:GLU:H	2.16	0.48
1:CA:1555:VAL:N	5:CE:182:ASP:OD1	2.33	0.48
2:CB:132:SER:HA	2:CB:195:ILE:O	2.13	0.48
2:CB:526:GLY:CA	2:CB:696:ILE:HG22	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:683:ASN:HA	14:CN:150:TYR:CE1	2.48	0.48
2:CB:744:LEU:HD11	2:CB:799:GLY:HA2	1.95	0.48
3:CC:133:VAL:HG12	3:CC:170:GLU:HB2	1.96	0.48
4:CD:36:VAL:HG22	7:CG:38:ILE:HG21	1.95	0.48
6:CF:99:LEU:HB3	7:CG:112:PRO:HD3	1.96	0.48
8:CH:94:ASP:N	8:CH:94:ASP:OD1	2.46	0.48
13:CM:23:VAL:HG13	14:CN:108:THR:O	2.12	0.48
14:CN:110:LEU:CD2	14:CN:121:ILE:HA	2.43	0.48
2:DB:161:LEU:HD11	2:DB:409:TYR:CE2	2.48	0.48
2:DB:397:THR:HA	2:DB:400:GLN:OE1	2.13	0.48
2:DB:887:LEU:O	2:DB:887:LEU:HD22	2.13	0.48
1:EA:96:ILE:HG23	1:EA:228:LEU:HD21	1.94	0.48
1:EA:1003:ARG:NH2	2:EB:533:THR:HG21	2.27	0.48
1:EA:1246:VAL:HG22	1:EA:1250:GLN:HE22	1.76	0.48
2:EB:244:THR:O	2:EB:244:THR:OG1	2.31	0.48
2:EB:260:PHE:CD2	2:EB:276:ILE:HG12	2.48	0.48
2:EB:655:TYR:HD1	2:EB:688:HIS:NE2	2.11	0.48
14:EN:58:PHE:N	14:EN:58:PHE:CD1	2.80	0.48
1:FA:1530:TRP:O	5:FE:14:ARG:NH2	2.46	0.48
2:FB:345:SER:HA	13:FM:113:ILE:CG1	2.43	0.48
2:FB:629:VAL:HB	2:FB:639:GLY:H	1.78	0.48
11:FK:90:GLY:O	11:FK:103:ILE:HD13	2.13	0.48
1:AA:456:VAL:O	1:AA:459:ALA:HB3	2.13	0.48
1:AA:732:ILE:H	1:AA:732:ILE:HG12	1.26	0.48
1:AA:808:LYS:O	1:AA:809:VAL:C	2.51	0.48
1:AA:809:VAL:HG13	1:AA:813:LEU:HD11	1.95	0.48
1:AA:1545:ASP:CG	1:AA:1546:VAL:N	2.66	0.48
2:AB:655:TYR:HD1	2:AB:688:HIS:NE2	2.11	0.48
2:AB:703:LEU:HD23	2:AB:754:ALA:HB3	1.95	0.48
5:AE:39:LEU:O	5:AE:42:PHE:HB3	2.13	0.48
1:BA:607:VAL:O	1:BA:608:LEU:HD23	2.14	0.48
1:BA:697:TYR:CE1	1:BA:702:PRO:HD3	2.49	0.48
1:BA:731:ILE:O	1:BA:735:VAL:HG23	2.14	0.48
1:BA:934:LYS:HE2	2:BB:956:SER:OG	2.14	0.48
1:BA:1446:ARG:HG2	1:BA:1450:ILE:HD13	1.94	0.48
2:BB:117:VAL:HG12	2:BB:118:GLU:H	1.78	0.48
2:BB:162:PRO:HB2	2:BB:409:TYR:OH	2.14	0.48
2:BB:346:ASP:OD2	13:BM:114:LYS:HG3	2.14	0.48
2:BB:532:HIS:ND1	2:BB:700:LEU:HD13	2.29	0.48
9:BI:20:PRO:C	9:BI:22:ALA:H	2.17	0.48
1:CA:124:LEU:HD12	1:CA:133:SER:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:504:LYS:HD3	2:CB:1046:VAL:HG11	1.95	0.48
1:CA:1102:LEU:HD22	1:CA:1141:GLN:HE21	1.78	0.48
1:CA:1276:THR:HG23	1:CA:1288:ARG:NH1	2.25	0.48
2:CB:273:VAL:HA	2:CB:276:ILE:HD13	1.95	0.48
3:CC:181:ASP:O	3:CC:183:PRO:HD3	2.14	0.48
8:CH:102:TYR:HE2	8:CH:116:TYR:C	2.17	0.48
14:CN:148:ILE:HD13	14:CN:150:TYR:OH	2.12	0.48
1:DA:16:PHE:N	1:DA:16:PHE:CD1	2.81	0.48
1:DA:457:LYS:C	1:DA:459:ALA:H	2.15	0.48
1:DA:475:ARG:HB3	1:DA:475:ARG:HH11	1.79	0.48
1:DA:934:LYS:HE2	2:DB:956:SER:OG	2.13	0.48
1:DA:1073:TYR:CE1	1:DA:1077:LEU:HD22	2.49	0.48
2:DB:312:GLY:O	2:DB:316:ARG:HB2	2.13	0.48
2:DB:555:GLN:NE2	2:DB:644:GLY:O	2.47	0.48
2:DB:753:LYS:O	2:DB:981:SER:OG	2.12	0.48
2:DB:845:LEU:HD12	12:DL:58:LYS:CD	2.44	0.48
3:DC:147:PRO:O	3:DC:149:GLY:N	2.46	0.48
3:DC:204:LEU:HG	3:DC:204:LEU:O	2.14	0.48
8:DH:101:ALA:HB2	8:DH:116:TYR:CE1	2.48	0.48
1:EA:118:TYR:CD2	1:EA:223:PHE:HD1	2.31	0.48
1:EA:1027:LEU:O	1:EA:1030:VAL:HB	2.13	0.48
1:EA:1291:VAL:HG22	1:EA:1473:LYS:CD	2.43	0.48
2:EB:326:VAL:O	2:EB:330:LEU:HG	2.13	0.48
11:EK:58:GLY:O	11:EK:60:SER:N	2.46	0.48
1:FA:509:GLU:OE1	1:FA:579:ARG:NH2	2.45	0.48
1:FA:596:HIS:CD2	1:FA:596:HIS:N	2.80	0.48
1:FA:1039:ARG:NH2	5:FE:168:TYR:O	2.44	0.48
2:FB:548:LYS:HA	2:FB:550:ARG:HH22	1.78	0.48
2:FB:705:PRO:HG3	2:FB:920:ARG:CZ	2.44	0.48
3:FC:233:ILE:HD11	3:FC:291:LEU:HG	1.96	0.48
5:FE:39:LEU:O	5:FE:42:PHE:HB3	2.13	0.48
8:FH:102:TYR:HE2	8:FH:116:TYR:C	2.16	0.48
9:FI:2:SER:HB2	9:FI:11:LEU:HD21	1.94	0.48
10:FJ:41:LEU:HD22	10:FJ:46:CYS:HB3	1.95	0.48
1:AA:13:SER:OG	1:AA:1631:ARG:NH1	2.47	0.48
1:AA:681:THR:O	1:AA:729:LYS:NZ	2.22	0.48
1:AA:809:VAL:HG12	1:AA:810:LEU:N	2.29	0.48
1:AA:895:VAL:O	1:AA:899:LYS:HG2	2.13	0.48
1:AA:1270:VAL:HB	9:AI:51:THR:CG2	2.44	0.48
1:AA:1288:ARG:HE	1:AA:1480:THR:HB	1.79	0.48
2:AB:380:LYS:HE3	2:AB:637:TYR:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:887:LEU:HD13	12:AL:56:LEU:O	2.13	0.48
3:AC:136:LEU:HD13	3:AC:166:ASP:O	2.13	0.48
13:AM:81:PHE:HB2	13:AM:88:ILE:HD13	1.95	0.48
1:BA:223:PHE:CE2	1:BA:227:LEU:HD11	2.47	0.48
1:BA:426:ALA:HB2	7:BO:273:VAL:HG21	1.95	0.48
1:BA:1170:MET:HA	1:BA:1173:LYS:HB3	1.94	0.48
2:BB:132:SER:HA	2:BB:195:ILE:O	2.13	0.48
2:BB:205:MET:HB2	2:BB:502:MET:O	2.13	0.48
2:BB:212:ASN:OD1	2:BB:239:VAL:HG13	2.13	0.48
2:BB:290:ASP:OD1	13:BM:28:LYS:HE2	2.13	0.48
2:BB:381:LEU:O	2:BB:385:VAL:HG23	2.13	0.48
2:BB:398:GLN:HB3	2:BB:399:HIS:ND1	2.29	0.48
8:BH:101:ALA:HB2	8:BH:116:TYR:CE1	2.49	0.48
7:BO:300:VAL:HB	7:BO:308:ILE:HB	1.96	0.48
1:CA:460:LEU:O	1:CA:466:LEU:HB3	2.13	0.48
1:CA:697:TYR:CE1	1:CA:702:PRO:HD3	2.48	0.48
1:CA:920:PHE:CD1	1:CA:921:PRO:HA	2.49	0.48
1:CA:1001:ALA:O	1:CA:1004:GLU:HB2	2.14	0.48
1:CA:1058:THR:C	1:CA:1060:GLU:H	2.17	0.48
1:CA:1136:VAL:HG22	1:CA:1174:TYR:CD1	2.49	0.48
1:CA:1292:ILE:HD12	1:CA:1292:ILE:O	2.12	0.48
1:CA:1649:VAL:O	1:CA:1652:GLY:N	2.42	0.48
2:CB:972:GLY:CA	2:CB:977:ILE:HG22	2.41	0.48
2:CB:1044:PHE:O	2:CB:1045:GLN:HB3	2.12	0.48
6:CF:97:ARG:HA	6:CF:100:GLN:HG3	1.94	0.48
8:CH:12:VAL:HA	8:CH:28:ALA:HB2	1.94	0.48
11:CK:128:CYS:O	11:CK:131:VAL:HB	2.14	0.48
1:DA:476:VAL:HG23	2:DB:1091:ARG:HH21	1.78	0.48
1:DA:896:THR:HG21	1:DA:956:ARG:NH1	2.29	0.48
1:DA:920:PHE:CD1	1:DA:921:PRO:HA	2.48	0.48
2:DB:474:SER:C	2:DB:476:LEU:N	2.67	0.48
2:DB:655:TYR:CZ	2:DB:657:PRO:HG2	2.48	0.48
2:DB:796:ARG:HD2	10:DJ:7:CYS:O	2.14	0.48
2:DB:876:SER:O	2:DB:878:GLU:N	2.37	0.48
3:DC:70:ILE:O	3:DC:72:ILE:N	2.47	0.48
3:DC:148:LYS:NZ	3:EC:148:LYS:HE2	2.28	0.48
7:DG:46:TYR:HD1	7:DG:117:TRP:HD1	1.62	0.48
9:DI:2:SER:O	9:DI:9:PHE:N	2.43	0.48
1:EA:93:GLN:HG3	1:EA:1627:LEU:HD13	1.96	0.48
1:EA:589:MET:SD	1:EA:635:MET:HG3	2.53	0.48
1:EA:678:VAL:O	1:EA:681:THR:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:806:ALA:O	1:EA:809:VAL:N	2.46	0.48
1:EA:1484:LEU:CG	2:EB:308:LEU:HD11	2.44	0.48
2:EB:636:GLN:HB3	2:EB:671:TYR:OH	2.14	0.48
3:EC:329:LYS:CD	11:EK:122:LYS:HE2	2.39	0.48
1:FA:4:SER:HB2	1:FA:573:LEU:CD2	2.43	0.48
2:FB:234:ILE:HB	2:FB:250:LEU:HB2	1.96	0.48
2:FB:586:VAL:HG22	2:FB:640:LEU:HD23	1.96	0.48
2:FB:753:LYS:O	2:FB:981:SER:OG	2.11	0.48
2:FB:792:SER:HB2	2:FB:933:THR:HB	1.96	0.48
2:FB:888:ILE:HD11	12:FL:55:ILE:HA	1.95	0.48
3:FC:181:ASP:O	3:FC:183:PRO:HD3	2.13	0.48
6:FF:93:ILE:HD13	6:FF:93:ILE:HA	1.59	0.48
11:FK:117:LEU:O	11:FK:121:LEU:HB2	2.14	0.48
1:AA:70:LYS:C	1:AA:71:PHE:HD1	2.17	0.48
1:AA:603:HIS:NE2	1:AA:624:TYR:OH	2.46	0.48
1:AA:937:ASN:O	1:AA:940:VAL:HB	2.13	0.48
2:AB:687:THR:OG1	2:AB:688:HIS:ND1	2.47	0.48
2:AB:898:LEU:CD2	12:AL:46:VAL:HG13	2.44	0.48
3:AC:245:ARG:H	3:AC:245:ARG:HD2	1.78	0.48
10:AJ:2:ILE:HG12	10:AJ:3:VAL:HG23	1.95	0.48
1:BA:928:MET:HG3	1:BA:933:ALA:HB3	1.95	0.48
1:BA:1028:GLU:CD	1:BA:1637:PRO:HB2	2.33	0.48
2:BB:209:GLN:OE1	2:BB:237:ARG:HB2	2.13	0.48
2:BB:274:VAL:HG11	2:BB:313:PHE:HB2	1.95	0.48
2:BB:501:ARG:HG3	2:BB:699:ILE:HD12	1.96	0.48
3:BC:227:TYR:HA	3:BC:299:ILE:O	2.14	0.48
13:BM:39:ASP:C	13:BM:53:LEU:HD12	2.34	0.48
1:CA:7:VAL:HG11	2:CB:1175:THR:O	2.13	0.48
1:CA:719:ILE:HG23	1:CA:723:TYR:O	2.13	0.48
2:CB:692:THR:HB	2:CB:693:PRO:HD2	1.96	0.48
3:CC:73:SER:O	3:CC:212:ILE:HD13	2.14	0.48
1:DA:697:TYR:CE1	1:DA:702:PRO:HD3	2.49	0.48
1:DA:713:VAL:HG23	1:DA:738:ASN:OD1	2.13	0.48
1:DA:1270:VAL:HB	9:DI:51:THR:CG2	2.42	0.48
2:DB:178:TYR:O	2:DB:182:GLN:HG2	2.13	0.48
2:DB:202:LEU:HD13	2:DB:500:PHE:CE2	2.48	0.48
2:DB:548:LYS:HA	2:DB:550:ARG:HH22	1.78	0.48
1:EA:596:HIS:CD2	1:EA:596:HIS:N	2.78	0.48
1:EA:1000:MET:SD	2:EB:520:LEU:O	2.72	0.48
1:EA:1019:LEU:HD21	1:EA:1194:GLY:CA	2.44	0.48
2:EB:97:VAL:HG13	2:EB:141:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:526:GLY:CA	2:EB:696:ILE:HG22	2.44	0.48
2:EB:942:GLY:C	2:EB:943:ILE:HD12	2.34	0.48
4:ED:89:LEU:O	4:ED:92:ILE:N	2.43	0.48
7:EO:290:GLU:HA	7:EO:293:LYS:HG3	1.95	0.48
1:FA:435:ASN:O	1:FA:438:ILE:N	2.47	0.48
1:FA:456:VAL:O	1:FA:460:LEU:HG	2.13	0.48
1:FA:1275:THR:HG22	9:FI:46:LYS:HB2	1.94	0.48
1:FA:1446:ARG:HH22	1:FA:1462:PHE:H	1.60	0.48
1:FA:1458:THR:HG21	1:FA:1475:GLU:HG2	1.95	0.48
2:FB:542:LEU:C	2:FB:543:ASN:HD22	2.17	0.48
5:FE:7:ARG:O	5:FE:11:ARG:HG3	2.14	0.48
12:FL:38:LEU:HD12	12:FL:49:LYS:HD3	1.95	0.48
1:AA:103:LEU:HD11	1:AA:243:PHE:HZ	1.79	0.48
1:AA:223:PHE:CE2	1:AA:227:LEU:HD11	2.48	0.48
1:AA:569:SER:OG	1:AA:570:THR:HG23	2.13	0.48
1:AA:1458:THR:HG23	1:AA:1473:LYS:O	2.13	0.48
1:AA:1623:THR:HA	1:AA:1626:VAL:HG22	1.94	0.48
2:AB:141:LEU:HD23	2:AB:450:LEU:HD11	1.96	0.48
2:AB:380:LYS:HG3	2:AB:637:TYR:CD2	2.49	0.48
3:AC:195:LYS:HB2	10:AJ:57:ILE:CD1	2.43	0.48
1:BA:189:VAL:O	1:BA:193:ILE:HG13	2.13	0.48
1:BA:1073:TYR:CZ	1:BA:1077:LEU:HD22	2.49	0.48
1:BA:1218:GLY:O	1:BA:1222:LEU:HD22	2.14	0.48
1:BA:1457:ILE:HA	1:BA:1474:LEU:CD2	2.43	0.48
7:BG:125:TRP:CZ2	7:BG:127:PRO:HG3	2.49	0.48
8:BH:97:MET:N	8:BH:142:LEU:O	2.46	0.48
14:BN:66:LYS:HD3	8:DH:77:ARG:NH1	2.29	0.48
1:CA:936:SER:O	1:CA:940:VAL:HG23	2.13	0.48
1:CA:1292:ILE:CD1	1:CA:1473:LYS:H	2.23	0.48
2:CB:1186:ASP:O	2:CB:1190:SER:OG	2.31	0.48
4:CD:94:ARG:HD2	4:CD:99:LEU:HD13	1.96	0.48
1:DA:864:LEU:HD11	1:DA:875:LEU:HA	1.95	0.48
1:DA:928:MET:HG3	1:DA:933:ALA:HB3	1.94	0.48
1:DA:1039:ARG:HB3	1:DA:1044:THR:O	2.14	0.48
1:DA:1458:THR:HG21	1:DA:1475:GLU:HG2	1.95	0.48
1:DA:1562:ILE:O	1:DA:1566:ILE:HG13	2.14	0.48
2:DB:12:ARG:HH22	2:DB:17:ARG:NH2	2.08	0.48
2:DB:67:ASP:O	2:DB:68:ILE:HD13	2.13	0.48
2:DB:210:ARG:HH22	2:DB:625:GLU:CD	2.17	0.48
5:DE:80:VAL:HG22	5:DE:109:ILE:HB	1.96	0.48
7:DO:300:VAL:O	7:DO:308:ILE:HG13	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1656:VAL:HG23	7:EG:107:ILE:HB	1.94	0.48
2:EB:104:ILE:HD12	2:EB:169:ARG:HG3	1.96	0.48
2:EB:125:GLU:O	2:EB:129:ARG:HB2	2.14	0.48
2:EB:575:HIS:HE2	13:EM:76:TYR:HH	1.48	0.48
2:EB:825:PHE:HE2	2:EB:899:GLN:HA	1.79	0.48
3:EC:250:CYS:O	3:EC:278:GLU:HB3	2.14	0.48
7:EG:46:TYR:HD1	7:EG:117:TRP:HD1	1.61	0.48
8:EH:5:LEU:O	8:EH:6:PHE:HB2	2.13	0.48
11:EK:58:GLY:C	11:EK:60:SER:N	2.67	0.48
11:EK:115:ASP:O	11:EK:118:GLN:N	2.47	0.48
1:FA:395:LEU:HD13	7:FO:276:LYS:HB3	1.96	0.48
1:FA:657:TYR:O	1:FA:665:PRO:HA	2.14	0.48
1:FA:920:PHE:CD1	1:FA:921:PRO:HA	2.49	0.48
1:FA:992:PRO:HG3	2:FB:984:TRP:CE2	2.48	0.48
1:FA:1007:ILE:HG22	2:FB:515:THR:HG22	1.96	0.48
1:FA:1619:CYS:O	1:FA:1622:LEU:HB3	2.13	0.48
2:FB:389:CYS:HB2	2:FB:635:GLY:O	2.14	0.48
2:FB:703:LEU:HD21	2:FB:757:TYR:HD2	1.79	0.48
4:FD:90:LYS:HA	4:FD:93:GLN:HG2	1.96	0.48
5:FE:28:TYR:HA	5:FE:64:PRO:HA	1.96	0.48
9:FI:95:ASN:HB2	9:FI:113:THR:HB	1.95	0.48
11:FK:125:MET:HA	11:FK:128:CYS:SG	2.53	0.48
14:FN:149:ASP:O	14:FN:153:VAL:HG12	2.14	0.48
2:AB:312:GLY:O	2:AB:316:ARG:HB2	2.14	0.48
2:AB:876:SER:C	2:AB:878:GLU:H	2.17	0.48
3:AC:328:LEU:HD11	11:AK:65:ILE:HD11	1.96	0.48
7:AG:18:LYS:O	7:AG:20:HIS:N	2.47	0.48
2:BB:161:LEU:HD11	2:BB:409:TYR:CE2	2.48	0.48
2:BB:244:THR:O	2:BB:244:THR:OG1	2.29	0.48
2:BB:986:PHE:CD1	14:BN:160:VAL:HG21	2.48	0.48
3:BC:48:ASP:CG	3:BC:49:ALA:N	2.68	0.48
3:BC:133:VAL:HG12	3:BC:170:GLU:HB2	1.96	0.48
5:BE:178:ILE:HD11	5:BE:182:ASP:HB3	1.96	0.48
8:BH:124:ARG:NH1	8:BH:126:GLU:OE1	2.47	0.48
1:CA:480:ALA:HB2	2:CB:1046:VAL:HG23	1.95	0.48
1:CA:759:TYR:CE1	1:CA:913:PRO:HG3	2.49	0.48
1:CA:937:ASN:HB3	9:CI:82:ILE:HD11	1.96	0.48
1:CA:1105:ARG:HH12	1:CA:1138:GLU:CD	2.17	0.48
1:CA:1586:ALA:O	1:CA:1589:MET:N	2.47	0.48
2:CB:586:VAL:O	2:CB:593:ILE:HG22	2.13	0.48
2:CB:848:ILE:HB	12:CL:60:ARG:HG3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:46:TYR:CD1	7:CG:117:TRP:CD1	3.02	0.48
8:CH:97:MET:N	8:CH:142:LEU:O	2.46	0.48
9:CI:13:CYS:HB3	9:CI:33:CYS:HB3	1.95	0.48
13:CM:77:VAL:HG21	14:CN:64:ILE:HD12	1.95	0.48
14:CN:55:LEU:HB2	14:CN:133:PHE:CZ	2.49	0.48
1:DA:596:HIS:CD2	1:DA:596:HIS:N	2.82	0.48
1:DA:729:LYS:HE3	1:DA:779:GLY:O	2.14	0.48
1:DA:1104:TYR:CE2	1:DA:1119:LYS:HD2	2.49	0.48
1:DA:1262:LEU:HD12	1:DA:1264:SER:HG	1.78	0.48
1:DA:1262:LEU:HD12	1:DA:1264:SER:OG	2.14	0.48
2:DB:787:MET:O	2:DB:788:ILE:HD13	2.14	0.48
2:DB:858:ILE:HG12	2:DB:872:LYS:O	2.14	0.48
1:EA:124:LEU:HD12	1:EA:133:SER:HA	1.94	0.48
1:EA:1292:ILE:CD1	1:EA:1473:LYS:H	2.24	0.48
2:EB:655:TYR:CE2	2:EB:657:PRO:HB2	2.49	0.48
3:EC:277:ARG:HG3	3:EC:291:LEU:HD13	1.95	0.48
5:EE:43:LYS:O	5:EE:47:CYS:HB2	2.14	0.48
11:EK:54:THR:HG22	11:EK:61:ALA:CA	2.41	0.48
1:FA:699:CYS:O	1:FA:812:VAL:HG22	2.13	0.48
1:FA:702:PRO:HD2	1:FA:703:GLU:OE2	2.14	0.48
1:FA:1224:GLU:HB3	1:FA:1233:ILE:HG22	1.96	0.48
1:FA:1260:LYS:HA	1:FA:1499:ARG:O	2.14	0.48
1:FA:1292:ILE:CD1	1:FA:1473:LYS:H	2.21	0.48
1:FA:1564:ASN:O	1:FA:1567:ASN:HB3	2.13	0.48
2:FB:205:MET:HB2	2:FB:502:MET:O	2.13	0.48
2:FB:381:LEU:O	2:FB:385:VAL:HG23	2.13	0.48
3:FC:70:ILE:C	3:FC:72:ILE:H	2.17	0.48
10:FJ:2:ILE:HG12	10:FJ:3:VAL:HG23	1.96	0.48
13:FM:12:ILE:CG2	14:FN:68:LYS:HA	2.44	0.48
1:AA:507:TYR:HB2	1:AA:637:PHE:CZ	2.49	0.48
1:AA:1263:LEU:HA	1:AA:1498:ILE:HD11	1.95	0.48
1:AA:1457:ILE:HA	1:AA:1474:LEU:HD22	1.96	0.48
2:AB:190:ILE:HG12	2:AB:191:GLY:N	2.29	0.48
2:AB:234:ILE:HB	2:AB:250:LEU:HB2	1.96	0.48
2:AB:533:THR:OG1	2:AB:534:PRO:HD2	2.13	0.48
2:AB:871:ILE:HD13	2:AB:873:THR:HG22	1.94	0.48
2:AB:1130:ARG:NH2	2:AB:1195:ARG:HD2	2.29	0.48
5:AE:43:LYS:O	5:AE:47:CYS:HB2	2.14	0.48
1:BA:95:TYR:CZ	1:BA:245:LYS:HB3	2.49	0.48
1:BA:467:PHE:O	1:BA:471:MET:HB2	2.14	0.48
1:BA:885:ASP:O	1:BA:889:SER:HB3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1226:VAL:HG22	1:BA:1598:PHE:CE1	2.49	0.48
2:BB:73:ILE:HG23	2:BB:74:PHE:N	2.28	0.48
3:BC:172:GLN:H	3:BC:175:GLN:HB2	1.78	0.48
3:BC:181:ASP:O	3:BC:183:PRO:HD3	2.14	0.48
1:CA:475:ARG:NH1	2:CB:1068:GLY:O	2.47	0.48
1:CA:818:THR:CG2	2:CB:780:GLY:HA3	2.43	0.48
1:CA:1446:ARG:HH12	1:CA:1462:PHE:HB3	1.79	0.48
2:CB:151:ASN:OD1	2:CB:151:ASN:N	2.46	0.48
2:CB:409:TYR:O	2:CB:413:LEU:HB2	2.14	0.48
2:CB:1018:THR:HB	2:CB:1020:GLU:OE1	2.14	0.48
3:CC:83:VAL:N	12:CL:67:PHE:O	2.40	0.48
7:CG:41:VAL:O	7:CG:122:LEU:HB2	2.14	0.48
8:CH:35:GLN:O	8:CH:127:GLY:HA2	2.14	0.48
1:DA:70:LYS:C	1:DA:71:PHE:HD1	2.17	0.48
1:DA:484:ILE:HG23	1:DA:631:ASP:O	2.14	0.48
1:DA:1258:ILE:O	1:DA:1501:ILE:HG13	2.13	0.48
2:DB:615:GLY:C	2:DB:617:THR:H	2.17	0.48
7:DO:272:ILE:HG23	7:DO:275:ASN:HD22	1.77	0.48
1:EA:70:LYS:C	1:EA:71:PHE:HD1	2.17	0.48
1:EA:339:PHE:O	1:EA:1629:ASN:HB2	2.14	0.48
1:EA:624:TYR:O	1:EA:625:ASN:HB3	2.14	0.48
1:EA:659:THR:HG23	1:EA:664:SER:O	2.14	0.48
1:EA:669:LEU:HA	1:EA:669:LEU:HD23	1.55	0.48
2:EB:913:ILE:HD11	2:EB:929:ARG:N	2.29	0.48
2:EB:917:PHE:HD2	2:EB:1035:ARG:HA	1.78	0.48
5:EE:133:GLU:HB3	5:EE:135:PHE:CE1	2.49	0.48
9:EI:101:LEU:O	9:EI:106:GLU:HG2	2.14	0.48
13:EM:14:SER:O	13:EM:90:LEU:N	2.45	0.48
1:FA:13:SER:OG	1:FA:1631:ARG:NH1	2.46	0.48
1:FA:1104:TYR:HE2	1:FA:1119:LYS:HD2	1.79	0.48
1:FA:1484:LEU:CG	2:FB:308:LEU:HD11	2.39	0.48
2:FB:212:ASN:OD1	2:FB:239:VAL:HG13	2.13	0.48
2:FB:846:PRO:HG3	2:FB:858:ILE:O	2.14	0.48
2:FB:876:SER:C	2:FB:878:GLU:H	2.15	0.48
2:FB:964:VAL:O	2:FB:966:SER:N	2.47	0.48
2:FB:1117:VAL:HG21	2:FB:1162:GLY:N	2.29	0.48
3:FC:310:PRO:O	3:FC:313:ILE:N	2.47	0.48
1:AA:1446:ARG:HH12	1:AA:1462:PHE:HB3	1.79	0.47
2:AB:273:VAL:HA	2:AB:276:ILE:HD13	1.96	0.47
2:AB:1150:LYS:N	2:AB:1150:LYS:HZ2	2.12	0.47
3:AC:121:PRO:O	3:AC:125:LYS:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:133:VAL:HG12	3:AC:170:GLU:HB2	1.95	0.47
5:AE:178:ILE:HD11	5:AE:182:ASP:HB3	1.96	0.47
6:AF:97:ARG:HG2	6:AF:130:ILE:CD1	2.44	0.47
1:BA:722:PRO:CD	8:BH:46:LEU:HD13	2.44	0.47
1:BA:808:LYS:O	1:BA:809:VAL:C	2.51	0.47
2:BB:549:CYS:H	2:BB:550:ARG:NH1	2.12	0.47
8:BH:38:LEU:HD12	8:BH:124:ARG:O	2.14	0.47
13:BM:85:LYS:C	13:BM:87:SER:H	2.17	0.47
1:CA:719:ILE:HG22	1:CA:725:LEU:H	1.79	0.47
1:CA:892:LEU:HG	1:CA:893:ASP:N	2.29	0.47
5:CE:159:ASP:O	5:CE:163:GLU:HG2	2.14	0.47
6:CF:67:LYS:O	6:CF:71:GLU:HG3	2.14	0.47
1:DA:835:LEU:HG	1:DA:985:ARG:NH1	2.26	0.47
1:DA:992:PRO:HG3	2:DB:984:TRP:CE2	2.48	0.47
1:DA:1162:ASN:H	1:DA:1165:LYS:HD2	1.79	0.47
1:DA:1175:MET:O	1:DA:1178:LEU:HG	2.14	0.47
2:DB:73:ILE:HG23	2:DB:74:PHE:N	2.28	0.47
2:DB:850:THR:O	2:DB:881:TYR:HA	2.14	0.47
2:DB:979:GLN:HA	2:DB:979:GLN:OE1	2.13	0.47
2:DB:1048:SER:O	2:DB:1049:THR:OG1	2.31	0.47
5:DE:33:GLU:O	5:DE:36:GLU:N	2.47	0.47
7:DG:139:ILE:CD1	7:DG:140:GLN:H	2.27	0.47
12:DL:31:CYS:HA	12:DL:56:LEU:HD23	1.95	0.47
1:EA:386:LEU:O	1:EA:389:VAL:HB	2.14	0.47
1:EA:498:PRO:O	1:EA:501:PHE:HB2	2.14	0.47
1:EA:670:ILE:HD13	1:EA:670:ILE:N	2.28	0.47
1:EA:1006:LEU:O	1:EA:1010:ALA:HB3	2.14	0.47
1:EA:1130:ALA:HB1	6:EF:82:THR:HB	1.94	0.47
2:EB:467:THR:HB	2:EB:469:ASN:ND2	2.24	0.47
2:EB:549:CYS:H	2:EB:550:ARG:NH1	2.12	0.47
2:EB:714:ARG:HG2	2:EB:959:THR:CG2	2.44	0.47
2:EB:1026:ILE:CD1	2:EB:1028:VAL:HG13	2.44	0.47
3:EC:67:PHE:CE1	3:EC:318:VAL:HG22	2.49	0.47
3:EC:134:LEU:HD23	3:EC:169:PHE:HA	1.96	0.47
7:EG:80:VAL:HG12	7:EG:82:LEU:HD23	1.95	0.47
8:EH:88:SER:OG	8:EH:89:LEU:N	2.47	0.47
10:EJ:16:ASP:C	10:EJ:18:TRP:H	2.18	0.47
1:FA:52:LEU:C	1:FA:54:LEU:H	2.18	0.47
1:FA:854:GLY:O	1:FA:974:THR:HB	2.13	0.47
1:FA:1102:LEU:HD22	1:FA:1141:GLN:HE21	1.79	0.47
1:FA:1617:THR:CB	1:FA:1620:GLN:HG2	2.41	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:472:SER:OG	2:FB:473:GLN:N	2.47	0.47
2:FB:772:VAL:HB	2:FB:946:ASP:OD2	2.14	0.47
2:FB:772:VAL:O	2:FB:946:ASP:HB2	2.13	0.47
2:FB:986:PHE:CD1	14:FN:160:VAL:HG21	2.49	0.47
2:FB:1073:GLU:CD	2:FB:1073:GLU:H	2.17	0.47
6:FF:72:LYS:HD2	6:FF:141:GLY:C	2.34	0.47
12:FL:63:ARG:HG2	12:FL:64:LEU:N	2.25	0.47
14:FN:97:SER:HA	14:FN:104:LEU:O	2.14	0.47
1:AA:118:TYR:CD2	1:AA:223:PHE:HD1	2.33	0.47
1:AA:512:THR:O	1:AA:516:ILE:HB	2.14	0.47
1:AA:1202:LEU:HD22	9:AI:99:LEU:HD13	1.97	0.47
1:AA:1237:GLN:HB2	1:AA:1544:ASN:HB2	1.97	0.47
2:AB:323:ARG:O	2:AB:327:LEU:HG	2.14	0.47
10:AJ:6:ARG:HB3	10:AJ:11:GLY:O	2.13	0.47
1:BA:1200:MET:HG2	1:BA:1573:TYR:CD2	2.49	0.47
2:BB:97:VAL:O	2:BB:421:LEU:HD22	2.14	0.47
2:BB:577:PHE:HE2	13:BM:26:PHE:O	1.96	0.47
2:BB:853:GLU:HB3	2:BB:879:PRO:HB3	1.95	0.47
2:BB:1093:LEU:HD12	2:BB:1093:LEU:HA	1.64	0.47
3:BC:174:ARG:O	3:BC:178:THR:OG1	2.18	0.47
5:BE:22:MET:HA	5:BE:187:TYR:CZ	2.49	0.47
5:BE:80:VAL:HG22	5:BE:109:ILE:HB	1.96	0.47
7:BG:158:LYS:O	7:BG:162:ILE:HG13	2.14	0.47
11:BK:58:GLY:O	11:BK:60:SER:N	2.47	0.47
1:CA:70:LYS:C	1:CA:71:PHE:HD1	2.17	0.47
1:CA:603:HIS:NE2	1:CA:624:TYR:OH	2.44	0.47
1:CA:843:ARG:NE	1:CA:945:CYS:O	2.42	0.47
1:CA:1080:TYR:HB3	1:CA:1172:LEU:HD21	1.95	0.47
1:CA:1183:GLU:HA	6:CF:88:TYR:OH	2.14	0.47
2:CB:19:LEU:N	2:CB:19:LEU:HD23	2.29	0.47
2:CB:662:ASP:OD1	2:CB:663:ILE:N	2.47	0.47
14:CN:72:VAL:O	14:CN:73:ASP:C	2.53	0.47
1:DA:11:ILE:HD12	1:DA:11:ILE:O	2.14	0.47
1:DA:250:LYS:HD3	1:DA:428:VAL:HG22	1.95	0.47
1:DA:498:PRO:HA	1:DA:499:PRO:HD3	1.66	0.47
1:DA:1202:LEU:HD11	9:DI:101:LEU:HD21	1.96	0.47
1:DA:1248:ASP:O	1:DA:1251:ALA:HB3	2.14	0.47
1:DA:1291:VAL:HG22	1:DA:1473:LYS:CD	2.44	0.47
2:DB:219:ARG:HG2	2:DB:221:SER:HB3	1.95	0.47
2:DB:744:LEU:HD12	2:DB:745:GLN:H	1.79	0.47
2:DB:774:ALA:HA	2:DB:1028:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:888:ILE:HG13	12:DL:55:ILE:HA	1.95	0.47
3:DC:136:LEU:HD13	3:DC:166:ASP:O	2.12	0.47
3:DC:321:LEU:HD11	11:DK:124:LEU:HD21	1.97	0.47
5:DE:177:ARG:HD3	5:DE:215:MET:HB2	1.95	0.47
7:DG:80:VAL:HG12	7:DG:82:LEU:CD2	2.44	0.47
14:DN:82:ILE:HB	14:DN:87:TYR:CE1	2.48	0.47
1:EA:52:LEU:C	1:EA:54:LEU:H	2.18	0.47
1:EA:513:ALA:O	1:EA:516:ILE:HG22	2.14	0.47
1:EA:527:PRO:HG3	1:EA:534:THR:HA	1.95	0.47
1:EA:1018:TYR:HD2	1:EA:1227:MET:HE1	1.79	0.47
3:EC:223:SER:OG	10:EJ:12:LYS:HA	2.14	0.47
7:EO:306:SER:O	7:EO:308:ILE:N	2.47	0.47
1:FA:261:ILE:HG22	1:FA:265:ARG:HE	1.78	0.47
1:FA:1105:ARG:NH1	1:FA:1138:GLU:OE1	2.45	0.47
2:FB:476:LEU:HA	2:FB:476:LEU:HD23	1.55	0.47
2:FB:895:PHE:O	2:FB:896:GLN:C	2.52	0.47
10:FJ:3:VAL:CG1	10:FJ:15:GLY:HA2	2.44	0.47
1:AA:335:LEU:O	1:AA:339:PHE:HD1	1.98	0.47
1:AA:669:LEU:H	1:AA:787:GLY:HA2	1.79	0.47
1:AA:1073:TYR:CZ	1:AA:1077:LEU:HD22	2.49	0.47
2:AB:70:GLU:HG2	2:AB:97:VAL:C	2.35	0.47
2:AB:290:ASP:O	2:AB:292:ILE:N	2.47	0.47
2:AB:660:LYS:HB3	2:AB:661:GLU:H	1.51	0.47
5:AE:64:PRO:HB3	5:AE:68:SER:HB2	1.96	0.47
7:AG:41:VAL:O	7:AG:122:LEU:HB2	2.13	0.47
1:BA:555:LYS:O	1:BA:558:ALA:HB3	2.14	0.47
1:BA:646:GLU:OE1	2:BB:1084:THR:HB	2.14	0.47
1:BA:1049:MET:HG2	1:BA:1054:ALA:HB2	1.95	0.47
2:BB:54:GLU:HB3	2:BB:55:GLY:H	1.55	0.47
2:BB:332:ASP:OD1	13:BM:114:LYS:HB2	2.14	0.47
5:BE:64:PRO:HB3	5:BE:68:SER:HB2	1.95	0.47
13:BM:10:ILE:HG22	13:BM:11:GLU:N	2.28	0.47
1:CA:399:LEU:HD13	7:CO:271:PRO:HG2	1.95	0.47
1:CA:507:TYR:HB3	1:CA:579:ARG:NH1	2.28	0.47
1:CA:736:LEU:HD22	1:CA:736:LEU:HA	1.61	0.47
1:CA:966:LEU:HD23	1:CA:969:PHE:CD2	2.48	0.47
2:CB:548:LYS:HA	2:CB:550:ARG:HH22	1.79	0.47
2:CB:586:VAL:HG22	2:CB:640:LEU:HD23	1.96	0.47
3:CC:51:GLU:HB3	3:CC:303:GLU:HA	1.96	0.47
5:CE:3:GLN:O	5:CE:7:ARG:HG2	2.14	0.47
11:CK:53:ALA:HB1	11:CK:104:ARG:HH12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:80:LEU:HD22	14:CN:51:GLN:OE1	2.14	0.47
1:DA:1202:LEU:HD11	9:DI:101:LEU:CG	2.43	0.47
3:DC:250:CYS:HB3	3:DC:279:VAL:HG13	1.95	0.47
5:DE:28:TYR:HA	5:DE:64:PRO:HA	1.96	0.47
8:DH:30:SER:HG	8:DH:33:GLN:N	2.11	0.47
13:DM:30:PHE:CE1	13:DM:62:TYR:HE2	2.33	0.47
1:EA:197:LEU:HD23	1:EA:202:THR:O	2.14	0.47
1:EA:250:LYS:HD3	1:EA:428:VAL:HG22	1.95	0.47
1:EA:729:LYS:HE3	1:EA:779:GLY:O	2.14	0.47
1:EA:1148:LEU:HD11	1:EA:1167:ARG:HB2	1.96	0.47
1:EA:1217:LEU:HD11	1:EA:1572:ARG:NE	2.29	0.47
1:EA:1260:LYS:HA	1:EA:1499:ARG:O	2.14	0.47
1:EA:1263:LEU:HA	1:EA:1498:ILE:HD11	1.96	0.47
2:EB:99:VAL:HG11	2:EB:139:LEU:HD13	1.96	0.47
2:EB:323:ARG:O	2:EB:327:LEU:HG	2.15	0.47
2:EB:713:PRO:HG3	9:EI:100:GLN:NE2	2.29	0.47
2:EB:956:SER:O	9:EI:107:GLY:HA2	2.13	0.47
3:EC:164:ALA:CB	3:EC:191:ILE:HB	2.43	0.47
9:EI:57:PRO:HA	9:EI:61:ARG:HG2	1.96	0.47
11:EK:117:LEU:O	11:EK:121:LEU:HB2	2.14	0.47
13:EM:26:PHE:CZ	13:EM:98:SER:HB2	2.49	0.47
1:FA:1240:LEU:HD23	1:FA:1541:ILE:HG23	1.96	0.47
1:FA:1272:VAL:CG1	1:FA:1273:THR:H	2.26	0.47
1:FA:1516:LYS:O	1:FA:1518:VAL:HB	2.15	0.47
2:FB:376:PHE:HB2	2:FB:592:ILE:HD11	1.97	0.47
2:FB:636:GLN:HG3	2:FB:637:TYR:N	2.29	0.47
3:FC:48:ASP:CG	3:FC:49:ALA:N	2.68	0.47
7:FG:41:VAL:HA	7:FG:42:PRO:HD3	1.78	0.47
13:FM:81:PHE:CD1	13:FM:88:ILE:HB	2.46	0.47
1:AA:1022:CYS:HA	1:AA:1615:TYR:OH	2.14	0.47
1:AA:1447:GLN:NE2	1:AA:1459:LYS:HG2	2.30	0.47
2:AB:151:ASN:OD1	2:AB:151:ASN:N	2.47	0.47
2:AB:161:LEU:HD12	2:AB:162:PRO:CD	2.41	0.47
2:AB:242:ASP:OD2	2:AB:414:LYS:NZ	2.32	0.47
2:AB:425:ILE:HG22	2:AB:426:ALA:N	2.29	0.47
2:AB:751:ILE:HG22	2:AB:770:ASN:OD1	2.14	0.47
2:AB:886:ASN:N	2:AB:902:SER:O	2.34	0.47
2:AB:1044:PHE:O	2:AB:1045:GLN:HB3	2.14	0.47
2:AB:1051:PRO:HA	7:AO:307:GLU:HB3	1.96	0.47
7:AG:29:ASP:O	7:AG:31:LYS:N	2.47	0.47
1:BA:70:LYS:C	1:BA:71:PHE:HD1	2.18	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1540:GLY:O	1:BA:1542:THR:N	2.44	0.47
4:BD:24:ALA:HA	7:BG:43:ILE:HG22	1.96	0.47
13:BM:26:PHE:CZ	13:BM:98:SER:HB2	2.49	0.47
1:CA:67:LEU:HD13	1:CA:71:PHE:HB3	1.95	0.47
1:CA:93:GLN:HG3	1:CA:1627:LEU:HD13	1.96	0.47
1:CA:718:THR:O	8:CH:98:TYR:N	2.47	0.47
1:CA:719:ILE:O	1:CA:724:PRO:HA	2.14	0.47
1:CA:903:ILE:O	1:CA:907:VAL:HG23	2.14	0.47
1:CA:1028:GLU:HB3	1:CA:1187:ILE:HD11	1.95	0.47
1:CA:1472:PHE:O	1:CA:1473:LYS:HB3	2.13	0.47
2:CB:470:LEU:HD22	2:CB:484:TYR:HE1	1.80	0.47
2:CB:718:GLN:CD	2:CB:920:ARG:HA	2.34	0.47
2:CB:744:LEU:HD12	2:CB:745:GLN:H	1.79	0.47
2:CB:787:MET:O	2:CB:788:ILE:HD13	2.15	0.47
2:CB:913:ILE:HD11	2:CB:929:ARG:N	2.28	0.47
3:CC:195:LYS:HB2	10:CJ:57:ILE:HD11	1.97	0.47
4:CD:47:LYS:NZ	7:CG:67:ASN:HD21	2.13	0.47
5:CE:5:ASN:ND2	5:CE:52:ARG:HH21	2.06	0.47
1:DA:426:ALA:O	1:DA:430:ILE:HG22	2.14	0.47
1:DA:754:LYS:HB2	1:DA:782:ASP:OD2	2.14	0.47
1:DA:960:MET:O	1:DA:963:GLY:N	2.38	0.47
1:DA:1264:SER:HA	1:DA:1267:ILE:HD12	1.95	0.47
1:DA:1539:ASP:O	5:DE:147:HIS:CD2	2.68	0.47
2:DB:300:SER:OG	9:DI:47:VAL:HG12	2.15	0.47
2:DB:627:GLY:O	2:DB:641:TYR:N	2.47	0.47
2:DB:859:CYS:SG	2:DB:860:ALA:N	2.87	0.47
2:DB:985:ILE:O	14:DN:160:VAL:HG22	2.15	0.47
3:DC:59:ILE:HD11	3:DC:63:ILE:HB	1.95	0.47
6:DF:76:LYS:HG3	6:DF:79:ARG:CZ	2.45	0.47
11:DK:58:GLY:C	11:DK:60:SER:N	2.68	0.47
13:DM:81:PHE:CD1	13:DM:88:ILE:HB	2.48	0.47
14:DN:71:PRO:HD2	14:DN:89:ILE:HD11	1.95	0.47
1:EA:103:LEU:HD11	1:EA:243:PHE:HZ	1.79	0.47
1:EA:1060:GLU:O	1:EA:1061:SER:C	2.52	0.47
1:EA:1451:ILE:HA	1:EA:1457:ILE:HB	1.96	0.47
2:EB:76:GLY:HA3	2:EB:77:LYS:HZ2	1.79	0.47
2:EB:276:ILE:O	2:EB:280:LEU:HG	2.14	0.47
2:EB:1198:TYR:CD2	2:EB:1198:TYR:N	2.82	0.47
4:ED:33:THR:O	4:ED:36:VAL:HB	2.14	0.47
5:EE:154:ILE:HB	5:EE:197:LYS:HB3	1.95	0.47
5:EE:177:ARG:CZ	5:EE:179:GLN:HE22	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:EF:123:LYS:O	6:EF:126:ALA:HB3	2.15	0.47
7:EG:10:ASN:HB3	7:EG:11:ARG:H	1.52	0.47
9:EI:11:LEU:H	9:EI:11:LEU:HD12	1.78	0.47
10:EJ:2:ILE:HG12	10:EJ:3:VAL:HG23	1.97	0.47
1:FA:533:ALA:HB2	1:FA:579:ARG:HA	1.96	0.47
1:FA:678:VAL:HG22	1:FA:781:LEU:O	2.14	0.47
1:FA:1325:LEU:HD13	1:FA:1325:LEU:HA	1.72	0.47
1:FA:1485:MET:O	1:FA:1489:VAL:HG23	2.15	0.47
1:FA:1586:ALA:O	1:FA:1589:MET:N	2.46	0.47
1:FA:1589:MET:O	1:FA:1596:LEU:HB2	2.15	0.47
2:FB:72:VAL:HA	2:FB:95:LEU:O	2.14	0.47
2:FB:415:GLU:O	2:FB:418:ASP:HB3	2.15	0.47
2:FB:811:LEU:HD13	2:FB:823:GLN:NE2	2.24	0.47
3:FC:228:ARG:NH1	14:FN:173:THR:H	2.13	0.47
6:FF:98:ALA:HB2	6:FF:118:LEU:HD13	1.97	0.47
7:FG:80:VAL:HG12	7:FG:82:LEU:HD23	1.96	0.47
8:FH:100:THR:O	8:FH:116:TYR:HA	2.14	0.47
12:FL:63:ARG:HH11	12:FL:63:ARG:HG3	1.80	0.47
2:AB:242:ASP:OD1	2:AB:244:THR:HG23	2.15	0.47
2:AB:359:LEU:HD22	2:AB:361:HIS:CE1	2.49	0.47
5:AE:170:LEU:HD13	5:AE:175:LEU:HD23	1.97	0.47
7:AG:62:MET:HA	7:AG:66:LEU:HB2	1.96	0.47
1:BA:480:ALA:HB2	2:BB:1046:VAL:HG23	1.95	0.47
1:BA:712:ILE:HD12	11:BK:88:PHE:CE1	2.50	0.47
1:BA:1292:ILE:CD1	1:BA:1473:LYS:H	2.17	0.47
1:BA:1487:ASN:O	1:BA:1490:GLU:N	2.47	0.47
2:BB:108:MET:SD	2:BB:120:LYS:HA	2.55	0.47
2:BB:960:ILE:O	2:BB:963:PHE:HB2	2.15	0.47
3:BC:227:TYR:CD1	3:BC:298:PHE:HD2	2.32	0.47
7:BG:50:ALA:HA	7:BG:113:PHE:CE2	2.48	0.47
1:CA:39:ASP:OD1	1:CA:41:LEU:N	2.46	0.47
1:CA:669:LEU:HA	1:CA:669:LEU:HD23	1.58	0.47
1:CA:1067:GLU:O	1:CA:1069:CYS:N	2.47	0.47
1:CA:1270:VAL:HB	9:CI:51:THR:CG2	2.45	0.47
1:CA:1276:THR:O	9:CI:44:ASN:HB3	2.14	0.47
1:CA:1538:VAL:HA	1:CA:1541:ILE:HD11	1.96	0.47
1:CA:1658:ALA:CB	7:CG:107:ILE:HD11	2.45	0.47
2:CB:622:ILE:H	2:CB:622:ILE:CD1	2.28	0.47
2:CB:891:GLU:HA	12:CL:54:ARG:HH11	1.78	0.47
2:CB:1002:LYS:NZ	14:CN:166:LEU:HD13	2.29	0.47
3:CC:62:SER:OG	3:CC:63:ILE:HD12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:75:VAL:HA	3:CC:76:PRO:HD3	1.76	0.47
3:CC:146:ALA:HB2	3:CC:156:LEU:HA	1.96	0.47
14:CN:64:ILE:C	14:CN:66:LYS:H	2.18	0.47
1:DA:136:LEU:HD13	1:DA:189:VAL:HG23	1.95	0.47
1:DA:533:ALA:HB2	1:DA:579:ARG:HA	1.97	0.47
1:DA:603:HIS:NE2	1:DA:624:TYR:OH	2.46	0.47
1:DA:719:ILE:HG23	1:DA:723:TYR:O	2.14	0.47
1:DA:939:ASN:O	1:DA:942:GLN:HB2	2.14	0.47
1:DA:1058:THR:C	1:DA:1060:GLU:N	2.67	0.47
2:DB:381:LEU:O	2:DB:385:VAL:HG23	2.15	0.47
3:DC:61:THR:HA	3:DC:298:PHE:CZ	2.50	0.47
7:DG:18:LYS:O	7:DG:20:HIS:N	2.47	0.47
13:DM:59:ARG:HD2	13:DM:60:LEU:HD21	1.97	0.47
1:EA:113:VAL:HG22	1:EA:182:LYS:HZ1	1.79	0.47
1:EA:659:THR:HG22	1:EA:666:VAL:HG22	1.96	0.47
1:EA:674:ILE:O	1:EA:678:VAL:HG23	2.14	0.47
1:EA:839:GLY:O	1:EA:842:TRP:HB2	2.15	0.47
1:EA:1136:VAL:HG22	1:EA:1174:TYR:CD1	2.49	0.47
2:EB:205:MET:HB2	2:EB:502:MET:O	2.15	0.47
2:EB:304:ASP:O	2:EB:308:LEU:HG	2.15	0.47
2:EB:757:TYR:CE2	2:EB:762:MET:HB3	2.49	0.47
4:ED:88:GLN:NE2	4:ED:91:ARG:HH21	2.13	0.47
7:EG:40:ARG:HD3	7:EG:123:TYR:HE1	1.79	0.47
7:EG:91:ASP:OD2	7:EG:103:LYS:HG2	2.14	0.47
14:EN:56:ILE:HG22	14:EN:57:LYS:H	1.80	0.47
1:FA:473:GLY:HA2	2:FB:1071:VAL:O	2.15	0.47
1:FA:507:TYR:HB3	1:FA:579:ARG:NH1	2.30	0.47
1:FA:611:GLU:CD	1:FA:615:ARG:HD2	2.35	0.47
1:FA:669:LEU:HD13	1:FA:673:HIS:CG	2.49	0.47
1:FA:1117:SER:C	1:FA:1119:LYS:H	2.17	0.47
3:FC:199:GLY:HA3	10:FJ:66:LEU:HD22	1.95	0.47
14:FN:55:LEU:HD12	14:FN:56:ILE:N	2.29	0.47
1:AA:537:GLN:HE21	1:AA:541:GLY:HA2	1.79	0.47
1:AA:589:MET:SD	1:AA:635:MET:HG3	2.55	0.47
1:AA:709:ARG:C	1:AA:711:LYS:H	2.14	0.47
1:AA:816:LEU:HG	1:AA:817:PHE:N	2.27	0.47
1:AA:903:ILE:O	1:AA:907:VAL:HG23	2.14	0.47
1:AA:952:LEU:HD21	1:AA:1000:MET:O	2.15	0.47
1:AA:1324:LEU:HD22	1:AA:1492:ILE:HG23	1.97	0.47
2:AB:315:LYS:HG3	2:AB:316:ARG:N	2.28	0.47
2:AB:728:THR:OG1	2:AB:766:PRO:O	2.20	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:848:ILE:HD12	2:AB:885:VAL:CG2	2.45	0.47
2:AB:939:SER:OG	2:AB:943:ILE:N	2.48	0.47
2:AB:1136:GLU:H	2:AB:1136:GLU:HG3	1.31	0.47
7:AG:29:ASP:OD1	7:AG:29:ASP:N	2.41	0.47
8:AH:12:VAL:HB	8:AH:53:ASP:H	1.79	0.47
9:AI:72:LYS:HB2	9:AI:73:LYS:HE3	1.95	0.47
14:AN:71:PRO:HD2	14:AN:89:ILE:HD11	1.95	0.47
2:BB:290:ASP:O	2:BB:292:ILE:N	2.47	0.47
2:BB:848:ILE:HD12	2:BB:885:VAL:HG21	1.96	0.47
2:BB:871:ILE:HD13	2:BB:873:THR:HG22	1.97	0.47
4:BD:14:THR:OG1	4:BD:16:LEU:HB2	2.13	0.47
4:BD:90:LYS:HA	4:BD:93:GLN:HG2	1.97	0.47
14:BN:55:LEU:C	14:BN:56:ILE:HG13	2.34	0.47
1:CA:335:LEU:O	1:CA:339:PHE:HD1	1.98	0.47
1:CA:1555:VAL:HG13	1:CA:1556:GLU:H	1.78	0.47
2:CB:561:ILE:HB	2:CB:562:PRO:HD3	1.97	0.47
3:CC:228:ARG:HG3	3:CC:299:ILE:HD12	1.97	0.47
7:CO:289:LYS:C	7:CO:289:LYS:HE2	2.34	0.47
1:DA:719:ILE:HG22	1:DA:725:LEU:H	1.78	0.47
1:DA:907:VAL:HG12	1:DA:945:CYS:SG	2.55	0.47
1:DA:1021:ARG:O	1:DA:1025:LYS:HB2	2.15	0.47
1:DA:1597:ALA:O	1:DA:1602:GLY:HA3	2.14	0.47
2:DB:374:LEU:O	2:DB:378:ILE:HG12	2.14	0.47
2:DB:679:GLN:HG3	14:DN:155:VAL:O	2.14	0.47
2:DB:898:LEU:HD22	12:DL:46:VAL:HG22	1.97	0.47
2:DB:1043:LYS:HG2	2:DB:1063:ARG:HG2	1.96	0.47
3:DC:203:SER:O	3:DC:204:LEU:HB3	2.14	0.47
5:DE:176:PRO:HB2	5:DE:212:ARG:CD	2.44	0.47
7:DG:41:VAL:HA	7:DG:42:PRO:HD3	1.76	0.47
1:EA:113:VAL:O	1:EA:116:HIS:HB3	2.15	0.47
1:EA:335:LEU:O	1:EA:339:PHE:HD1	1.98	0.47
1:EA:1290:TYR:O	1:EA:1473:LYS:HG3	2.15	0.47
2:EB:73:ILE:HG23	2:EB:74:PHE:N	2.30	0.47
2:EB:141:LEU:HD23	2:EB:450:LEU:HD11	1.95	0.47
2:EB:362:LEU:HB2	2:EB:370:LYS:HE2	1.96	0.47
2:EB:532:HIS:CD2	2:EB:700:LEU:HD22	2.50	0.47
2:EB:931:TRP:HA	2:EB:932:PRO:HD3	1.80	0.47
2:EB:1024:ALA:O	2:EB:1026:ILE:N	2.47	0.47
3:EC:54:PHE:CZ	3:EC:300:PHE:HB3	2.50	0.47
13:EM:16:GLN:HB3	13:EM:92:LYS:H	1.79	0.47
1:FA:10:GLU:CG	1:FA:1645:LYS:HE3	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:819:ASN:O	1:FA:822:THR:OG1	2.32	0.47
1:FA:1451:ILE:HA	1:FA:1457:ILE:HB	1.96	0.47
2:FB:795:GLU:OE2	3:FC:216:HIS:HA	2.15	0.47
2:FB:1150:LYS:N	2:FB:1150:LYS:HZ2	2.11	0.47
3:FC:48:ASP:OD2	3:FC:50:ARG:N	2.46	0.47
3:FC:54:PHE:CE1	3:FC:300:PHE:HB3	2.49	0.47
5:FE:133:GLU:HB3	5:FE:135:PHE:CE1	2.47	0.47
7:FG:95:LEU:HD23	7:FG:95:LEU:HA	1.73	0.47
7:FG:140:GLN:HB3	7:FG:217:TRP:HD1	1.79	0.47
8:FH:128:ASN:OD1	8:FH:130:ARG:HB2	2.14	0.47
1:AA:509:GLU:OE1	1:AA:579:ARG:NH2	2.40	0.47
1:AA:719:ILE:HG23	1:AA:723:TYR:O	2.14	0.47
1:AA:896:THR:HG21	1:AA:956:ARG:NH1	2.30	0.47
1:AA:966:LEU:HD11	1:AA:968:SER:HB3	1.95	0.47
1:AA:1066:PHE:HB3	1:AA:1147:PHE:CE2	2.50	0.47
1:AA:1170:MET:HA	1:AA:1173:LYS:HB3	1.96	0.47
1:AA:1263:LEU:O	1:AA:1265:GLU:N	2.47	0.47
1:AA:1457:ILE:HA	1:AA:1474:LEU:CD2	2.44	0.47
2:AB:125:GLU:O	2:AB:129:ARG:HB2	2.14	0.47
2:AB:293:ILE:HD12	2:AB:302:LEU:HB3	1.96	0.47
2:AB:559:SER:C	2:AB:561:ILE:H	2.18	0.47
2:AB:870:LYS:HB2	2:AB:870:LYS:HE2	1.50	0.47
3:AC:102:GLY:HA3	12:AL:69:ALA:CB	2.44	0.47
3:AC:225:ALA:HB2	3:AC:302:VAL:HG13	1.96	0.47
3:AC:253:PRO:CG	14:AN:180:PHE:CD1	2.97	0.47
6:AF:138:LEU:O	6:AF:140:ASP:N	2.42	0.47
7:AG:158:LYS:HE3	7:AG:246:ASP:OD1	2.15	0.47
11:AK:47:ILE:HD11	11:AK:63:PHE:HB3	1.97	0.47
11:AK:58:GLY:C	11:AK:60:SER:N	2.67	0.47
12:AL:61:THR:O	12:AL:63:ARG:N	2.48	0.47
1:BA:480:ALA:HB1	1:BA:501:PHE:CZ	2.50	0.47
1:BA:519:LEU:HD13	1:BA:577:VAL:HB	1.95	0.47
1:BA:596:HIS:CD2	1:BA:596:HIS:N	2.80	0.47
1:BA:674:ILE:HG12	1:BA:783:LYS:HB2	1.95	0.47
2:BB:260:PHE:HD2	2:BB:276:ILE:HG12	1.79	0.47
2:BB:425:ILE:HG22	2:BB:426:ALA:N	2.30	0.47
2:BB:470:LEU:HD22	2:BB:484:TYR:CE1	2.49	0.47
2:BB:548:LYS:HA	2:BB:550:ARG:NH2	2.30	0.47
2:BB:656:LEU:HD21	2:BB:689:VAL:HG12	1.97	0.47
2:BB:1058:GLN:H	2:BB:1058:GLN:HG3	1.48	0.47
5:BE:127:ILE:HD11	5:BE:132:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:53:TYR:HB3	7:BG:56:ASN:O	2.14	0.47
8:BH:63:LEU:HB3	8:BH:89:LEU:H	1.78	0.47
9:BI:13:CYS:HB3	9:BI:33:CYS:HB3	1.96	0.47
10:BJ:3:VAL:CG1	10:BJ:15:GLY:HA2	2.45	0.47
1:CA:10:GLU:CG	1:CA:1645:LYS:HE3	2.45	0.47
1:CA:93:GLN:HB2	1:CA:355:PHE:HE2	1.78	0.47
1:CA:126:GLN:NE2	1:CA:340:HIS:O	2.48	0.47
1:CA:693:GLN:O	1:CA:696:ILE:HB	2.15	0.47
1:CA:956:ARG:HG2	1:CA:979:GLY:O	2.14	0.47
1:CA:1105:ARG:HH22	1:CA:1138:GLU:CD	2.18	0.47
1:CA:1170:MET:HA	1:CA:1173:LYS:HB3	1.97	0.47
1:CA:1612:LYS:HB3	1:CA:1621:PHE:CG	2.49	0.47
1:CA:1621:PHE:O	1:CA:1624:LYS:HB2	2.15	0.47
2:CB:73:ILE:HG23	2:CB:74:PHE:N	2.30	0.47
2:CB:242:ASP:OD1	2:CB:244:THR:HG23	2.15	0.47
2:CB:323:ARG:O	2:CB:327:LEU:HG	2.15	0.47
2:CB:346:ASP:OD1	13:CM:113:ILE:HG23	2.15	0.47
2:CB:360:VAL:HA	2:CB:370:LYS:NZ	2.19	0.47
2:CB:534:PRO:O	2:CB:539:CYS:HA	2.14	0.47
2:CB:575:HIS:NE2	13:CM:76:TYR:OH	2.40	0.47
2:CB:960:ILE:O	2:CB:963:PHE:HB2	2.14	0.47
3:CC:48:ASP:OD2	3:CC:50:ARG:N	2.46	0.47
3:CC:67:PHE:O	3:CC:70:ILE:HB	2.15	0.47
3:CC:303:GLU:OE1	10:CJ:43:ARG:NH2	2.48	0.47
7:CG:159:LYS:HZ3	7:DO:276:LYS:HA	1.80	0.47
10:CJ:33:GLY:O	10:CJ:47:ARG:NH2	2.48	0.47
11:CK:135:PHE:CE2	11:CK:139:ILE:HG13	2.49	0.47
14:CN:56:ILE:HG22	14:CN:57:LYS:H	1.80	0.47
14:CN:58:PHE:CD1	14:CN:58:PHE:N	2.83	0.47
1:DA:735:VAL:O	1:DA:739:VAL:HG22	2.14	0.47
1:DA:804:GLU:CD	1:DA:804:GLU:H	2.16	0.47
1:DA:885:ASP:O	1:DA:889:SER:HB3	2.14	0.47
1:DA:888:LYS:HG2	9:DI:67:VAL:HG21	1.97	0.47
1:DA:1028:GLU:HA	1:DA:1187:ILE:CG1	2.41	0.47
1:DA:1085:LEU:H	1:DA:1085:LEU:HG	1.50	0.47
1:DA:1105:ARG:HH12	1:DA:1138:GLU:CD	2.17	0.47
1:DA:1229:ALA:CB	1:DA:1597:ALA:HB2	2.45	0.47
1:DA:1446:ARG:HH12	1:DA:1462:PHE:HB3	1.80	0.47
2:DB:196:VAL:HG13	2:DB:462:GLN:HG2	1.97	0.47
2:DB:468:GLY:O	2:DB:482:SER:HA	2.13	0.47
2:DB:716:MET:O	2:DB:719:CYS:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:1077:ASP:O	2:DB:1080:ILE:HB	2.15	0.47
2:DB:1093:LEU:HD12	2:DB:1093:LEU:HA	1.62	0.47
3:DC:85:PHE:HA	3:DC:204:LEU:HD13	1.95	0.47
3:DC:134:LEU:HD23	3:DC:169:PHE:HA	1.97	0.47
3:DC:237:GLN:NE2	3:DC:288:LYS:HE2	2.29	0.47
6:DF:93:ILE:HD13	6:DF:93:ILE:HA	1.62	0.47
6:DF:100:GLN:HG2	7:DG:112:PRO:HB3	1.97	0.47
9:DI:103:SER:HB3	9:DI:104:ALA:H	1.59	0.47
14:DN:55:LEU:C	14:DN:56:ILE:HG13	2.34	0.47
1:EA:67:LEU:HD13	1:EA:71:PHE:HB3	1.97	0.47
1:EA:699:CYS:O	1:EA:812:VAL:HG22	2.14	0.47
1:EA:707:THR:O	1:EA:708:THR:OG1	2.31	0.47
1:EA:1056:ASP:OD1	1:EA:1058:THR:HG23	2.15	0.47
1:EA:1477:ALA:O	1:EA:1480:THR:OG1	2.29	0.47
2:EB:379:ARG:CZ	2:EB:580:GLY:HA2	2.45	0.47
2:EB:539:CYS:C	2:EB:541:LEU:H	2.18	0.47
2:EB:887:LEU:O	2:EB:887:LEU:HD22	2.14	0.47
2:EB:954:PHE:N	2:EB:955:PRO:HD2	2.30	0.47
2:EB:962:MET:O	2:EB:965:GLU:N	2.47	0.47
2:EB:1123:ILE:HD12	2:EB:1124:SER:H	1.79	0.47
4:ED:14:THR:OG1	4:ED:16:LEU:HB2	2.15	0.47
4:ED:82:LEU:HD22	7:EG:67:ASN:ND2	2.28	0.47
5:EE:170:LEU:HD13	5:EE:175:LEU:HD23	1.96	0.47
10:EJ:18:TRP:O	10:EJ:22:LEU:HG	2.15	0.47
1:FA:16:PHE:N	1:FA:16:PHE:CD1	2.83	0.47
1:FA:457:LYS:C	1:FA:459:ALA:N	2.67	0.47
1:FA:498:PRO:HA	1:FA:499:PRO:HD3	1.66	0.47
1:FA:631:ASP:OD1	1:FA:631:ASP:N	2.45	0.47
1:FA:1539:ASP:O	5:FE:147:HIS:CD2	2.68	0.47
1:FA:1617:THR:OG1	1:FA:1617:THR:O	2.33	0.47
2:FB:209:GLN:OE1	2:FB:237:ARG:HB2	2.15	0.47
2:FB:774:ALA:HA	2:FB:1028:VAL:CG1	2.45	0.47
2:FB:1052:VAL:HG22	7:FO:307:GLU:O	2.15	0.47
5:FE:152:LYS:HE3	5:FE:154:ILE:HD11	1.95	0.47
5:FE:178:ILE:HD12	5:FE:179:GLN:N	2.30	0.47
7:FO:296:ASP:CG	7:FO:297:LEU:N	2.68	0.47
1:AA:1054:ALA:O	1:AA:1179:ILE:HG22	2.15	0.47
2:AB:38:LEU:H	2:AB:38:LEU:HD22	1.79	0.47
2:AB:190:ILE:HG12	2:AB:191:GLY:O	2.15	0.47
2:AB:349:VAL:O	2:AB:353:VAL:HG23	2.14	0.47
2:AB:398:GLN:HB3	2:AB:399:HIS:ND1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:902:SER:OG	2:AB:903:ILE:N	2.46	0.47
1:BA:1024:THR:O	1:BA:1028:GLU:N	2.48	0.47
1:BA:1553:TYR:CD1	5:BE:144:ILE:HB	2.50	0.47
1:BA:1559:ARG:HD2	1:BA:1587:ASP:OD1	2.15	0.47
2:BB:586:VAL:O	2:BB:593:ILE:HG22	2.15	0.47
3:BC:173:GLY:C	3:BC:175:GLN:H	2.18	0.47
1:CA:90:PHE:CE1	1:CA:1623:THR:HG23	2.49	0.47
1:CA:113:VAL:HG13	1:CA:182:LYS:CG	2.43	0.47
1:CA:431:GLN:O	1:CA:435:ASN:ND2	2.48	0.47
1:CA:484:ILE:HG23	1:CA:631:ASP:O	2.15	0.47
1:CA:604:LYS:HZ2	6:CF:119:ARG:HH22	1.62	0.47
1:CA:721:LYS:H	8:CH:96:VAL:HB	1.80	0.47
2:CB:141:LEU:HD23	2:CB:450:LEU:HD11	1.96	0.47
2:CB:234:ILE:HB	2:CB:250:LEU:HB2	1.95	0.47
3:CC:77:SER:OG	3:CC:78:VAL:N	2.47	0.47
11:CK:117:LEU:O	11:CK:121:LEU:HB2	2.15	0.47
1:DA:699:CYS:SG	1:DA:700:ILE:N	2.88	0.47
1:DA:1028:GLU:HB3	1:DA:1187:ILE:HD11	1.96	0.47
1:DA:1218:GLY:O	1:DA:1222:LEU:HD22	2.14	0.47
1:DA:1342:PRO:HD2	2:DB:272:PRO:HG3	1.96	0.47
2:DB:778:TYR:CE2	2:DB:937:PRO:HD3	2.50	0.47
2:DB:975:HIS:HE1	14:DN:167:LYS:O	1.98	0.47
3:DC:83:VAL:HG22	3:DC:206:ALA:HB1	1.96	0.47
3:DC:86:PHE:HE2	3:DC:205:LYS:HE3	1.80	0.47
3:DC:216:HIS:CE1	3:DC:218:LYS:HB3	2.50	0.47
6:DF:98:ALA:HB2	6:DF:118:LEU:HD13	1.97	0.47
8:DH:59:ILE:HG12	8:DH:141:TYR:O	2.15	0.47
8:DH:128:ASN:OD1	8:DH:130:ARG:HB2	2.14	0.47
12:DL:30:ILE:O	12:DL:57:LEU:HD12	2.14	0.47
1:EA:693:GLN:O	1:EA:696:ILE:HB	2.15	0.47
1:EA:803:PRO:O	1:EA:806:ALA:HB3	2.15	0.47
1:EA:855:ARG:NH1	1:EA:868:THR:O	2.45	0.47
2:EB:470:LEU:HD22	2:EB:484:TYR:CE1	2.50	0.47
2:EB:846:PRO:HG3	2:EB:858:ILE:O	2.14	0.47
3:EC:95:GLU:HG2	3:EC:96:VAL:N	2.29	0.47
3:EC:172:GLN:HB2	3:EC:175:GLN:NE2	2.29	0.47
3:EC:248:GLN:HG3	3:EC:256:ILE:O	2.15	0.47
4:ED:24:ALA:HA	7:EG:43:ILE:HA	1.96	0.47
7:EG:29:ASP:OD1	7:EG:29:ASP:N	2.43	0.47
7:EG:80:VAL:O	7:EG:124:VAL:HG13	2.15	0.47
1:FA:93:GLN:HG3	1:FA:1627:LEU:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:603:HIS:NE2	1:FA:624:TYR:OH	2.43	0.47
1:FA:1095:LEU:HD21	1:FA:1134:GLY:HA3	1.97	0.47
2:FB:276:ILE:O	2:FB:280:LEU:HG	2.15	0.47
2:FB:979:GLN:OE1	2:FB:979:GLN:HA	2.15	0.47
10:FJ:6:ARG:HB3	10:FJ:11:GLY:O	2.14	0.47
1:AA:371:SER:HA	7:AO:310:TYR:O	2.15	0.47
1:AA:914:ASP:O	1:AA:919:LYS:NZ	2.33	0.47
1:AA:1217:LEU:HD11	1:AA:1572:ARG:CD	2.44	0.47
1:AA:1227:MET:HE2	1:AA:1227:MET:HB3	1.66	0.47
2:AB:913:ILE:HD11	2:AB:929:ARG:N	2.30	0.47
7:AG:82:LEU:HG	7:AG:124:VAL:HA	1.96	0.47
7:AG:105:ILE:HG23	7:AG:115:PHE:O	2.14	0.47
13:AM:65:TYR:O	13:AM:97:VAL:N	2.41	0.47
1:BA:534:THR:OG1	1:BA:535:GLN:HG2	2.15	0.47
1:BA:947:LEU:HB2	1:BA:982:VAL:HG21	1.96	0.47
2:BB:274:VAL:HA	2:BB:277:LEU:HD12	1.97	0.47
2:BB:346:ASP:H	13:BM:113:ILE:HG13	1.79	0.47
2:BB:728:THR:HG21	2:BB:765:PHE:HA	1.95	0.47
2:BB:843:ASP:HB2	2:BB:845:LEU:HD21	1.97	0.47
7:BG:105:ILE:HG23	7:BG:115:PHE:O	2.13	0.47
7:BG:139:ILE:CD1	7:BG:140:GLN:H	2.27	0.47
1:CA:480:ALA:HB2	2:CB:1046:VAL:HA	1.97	0.47
1:CA:1067:GLU:C	1:CA:1069:CYS:N	2.68	0.47
1:CA:1168:ALA:O	1:CA:1171:GLN:N	2.48	0.47
1:CA:1543:SER:OG	1:CA:1544:ASN:N	2.48	0.47
2:CB:14:ALA:HB2	2:CB:980:ASP:CB	2.44	0.47
2:CB:220:PRO:O	2:CB:223:ALA:HB3	2.15	0.47
2:CB:971:ALA:O	2:CB:973:ALA:N	2.48	0.47
3:CC:131:THR:HG23	3:CC:209:ILE:HG22	1.97	0.47
1:DA:513:ALA:O	1:DA:516:ILE:HG22	2.15	0.47
1:DA:644:ARG:HH21	6:DF:118:LEU:HD23	1.79	0.47
1:DA:1342:PRO:HG3	2:DB:259:THR:HG22	1.97	0.47
2:DB:169:ARG:HD3	2:DB:169:ARG:HA	1.74	0.47
2:DB:562:PRO:HG3	2:DB:588:ILE:HD13	1.96	0.47
2:DB:652:PRO:O	2:DB:653:VAL:HG13	2.15	0.47
2:DB:858:ILE:HD13	2:DB:873:THR:O	2.14	0.47
2:DB:872:LYS:HD3	2:DB:872:LYS:HA	1.71	0.47
8:DH:5:LEU:CD2	8:DH:135:LEU:HD23	2.43	0.47
7:DO:266:GLN:HB3	7:DO:267:ALA:H	1.55	0.47
1:EA:703:GLU:H	1:EA:703:GLU:CD	2.18	0.47
1:EA:713:VAL:HG23	1:EA:738:ASN:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:59:GLY:O	2:EB:61:LEU:N	2.48	0.47
2:EB:611:TRP:C	2:EB:620:LEU:HD21	2.35	0.47
2:EB:1136:GLU:H	2:EB:1136:GLU:HG3	1.40	0.47
5:EE:7:ARG:O	5:EE:11:ARG:HG3	2.15	0.47
10:EJ:3:VAL:HG12	10:EJ:15:GLY:HA2	1.95	0.47
11:EK:59:THR:HA	11:EK:107:THR:HG23	1.96	0.47
1:FA:32:ILE:HG21	1:FA:49:LEU:HD23	1.97	0.47
1:FA:197:LEU:HD23	1:FA:202:THR:O	2.15	0.47
1:FA:510:PRO:HG2	6:FF:102:SER:OG	2.14	0.47
1:FA:829:GLY:HA2	2:FB:1027:TYR:CD2	2.50	0.47
1:FA:1022:CYS:SG	1:FA:1598:PHE:HB2	2.55	0.47
1:FA:1094:ALA:HB1	1:FA:1135:SER:HB2	1.97	0.47
2:FB:125:GLU:O	2:FB:129:ARG:HB2	2.14	0.47
3:FC:51:GLU:HB3	3:FC:303:GLU:HA	1.96	0.47
3:FC:128:ASP:C	3:FC:130:ASN:H	2.19	0.47
3:FC:174:ARG:O	3:FC:178:THR:OG1	2.14	0.47
1:AA:670:ILE:HD13	1:AA:670:ILE:H	1.80	0.47
1:AA:1102:LEU:HD12	1:AA:1105:ARG:HE	1.79	0.47
2:AB:274:VAL:HG11	2:AB:313:PHE:HB2	1.97	0.47
2:AB:389:CYS:HB2	2:AB:635:GLY:O	2.15	0.47
2:AB:527:PHE:CE2	2:AB:651:ARG:HD3	2.50	0.47
2:AB:898:LEU:HD22	12:AL:46:VAL:HG13	1.97	0.47
2:AB:1104:CYS:HB2	2:AB:1128:CYS:SG	2.54	0.47
9:AI:113:THR:HG23	9:AI:120:LYS:HB3	1.97	0.47
14:AN:56:ILE:HG22	14:AN:57:LYS:H	1.79	0.47
1:BA:472:MET:SD	1:BA:1025:LYS:NZ	2.70	0.47
1:BA:879:LEU:HD12	1:BA:972:TYR:HB3	1.97	0.47
1:BA:1117:SER:O	1:BA:1117:SER:OG	2.27	0.47
1:BA:1579:PHE:HA	1:BA:1582:LEU:HG	1.96	0.47
3:BC:69:ARG:HD3	11:BK:71:THR:OG1	2.15	0.47
11:BK:75:ALA:O	11:BK:79:VAL:HG23	2.15	0.47
13:BM:62:TYR:O	13:BM:63:GLU:HG3	2.15	0.47
1:CA:1451:ILE:HA	1:CA:1457:ILE:HB	1.96	0.47
1:CA:1559:ARG:O	1:CA:1563:VAL:HG23	2.15	0.47
2:CB:104:ILE:HD12	2:CB:169:ARG:HG3	1.96	0.47
2:CB:108:MET:SD	2:CB:120:LYS:HA	2.55	0.47
2:CB:548:LYS:HA	2:CB:550:ARG:CZ	2.45	0.47
2:CB:626:ILE:N	2:CB:668:GLU:OE2	2.47	0.47
2:CB:821:ILE:HD11	2:CB:899:GLN:OE1	2.15	0.47
3:CC:237:GLN:NE2	3:CC:288:LYS:HE2	2.29	0.47
6:CF:138:LEU:HB3	6:CF:140:ASP:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:40:LEU:HD12	8:CH:41:ASP:N	2.30	0.47
13:CM:10:ILE:HG22	13:CM:11:GLU:N	2.30	0.47
14:CN:31:LYS:O	14:CN:33:LYS:N	2.48	0.47
1:DA:93:GLN:HB2	1:DA:355:PHE:HE2	1.80	0.47
1:DA:416:ARG:O	1:DA:419:ILE:HB	2.15	0.47
5:DE:18:THR:HA	5:DE:21:GLU:OE1	2.15	0.47
10:DJ:6:ARG:HB3	10:DJ:11:GLY:O	2.13	0.47
1:EA:864:LEU:HD11	1:EA:875:LEU:HA	1.97	0.47
1:EA:1227:MET:HE2	1:EA:1227:MET:HB3	1.71	0.47
2:EB:523:GLU:H	2:EB:523:GLU:HG2	1.40	0.47
4:ED:94:ARG:HD2	4:ED:99:LEU:HD13	1.96	0.47
7:EG:140:GLN:HB3	7:EG:217:TRP:CD1	2.50	0.47
9:EI:94:MET:SD	9:EI:121:PHE:HE1	2.38	0.47
13:EM:89:GLN:O	13:EM:90:LEU:HD23	2.14	0.47
1:FA:669:LEU:HD23	1:FA:669:LEU:HA	1.56	0.47
1:FA:1463:ASP:HB2	1:FA:1469:TRP:CD1	2.49	0.47
1:FA:1484:LEU:HD13	2:FB:305:ARG:CZ	2.44	0.47
2:FB:301:PHE:CD1	2:FB:302:LEU:HD23	2.49	0.47
2:FB:859:CYS:SG	2:FB:860:ALA:N	2.88	0.47
2:FB:1178:ILE:HD12	2:FB:1182:LEU:HB3	1.95	0.47
3:FC:81:GLU:OE1	3:FC:81:GLU:HA	2.15	0.47
3:FC:285:PHE:C	3:FC:287:ASP:H	2.19	0.47
5:FE:41:ASP:O	5:FE:44:ALA:HB3	2.15	0.47
7:FG:100:THR:C	7:FG:102:GLU:N	2.68	0.47
7:FG:165:ASP:OD2	7:FG:220:SER:HA	2.15	0.47
1:AA:18:ILE:HA	2:AB:1193:GLY:O	2.14	0.46
1:AA:748:ASN:HD22	1:AA:748:ASN:H	1.63	0.46
1:AA:819:ASN:O	1:AA:822:THR:OG1	2.33	0.46
1:AA:1217:LEU:CD1	1:AA:1573:TYR:HE1	2.27	0.46
1:AA:1344:ILE:H	1:AA:1344:ILE:HD12	1.79	0.46
2:AB:262:PHE:O	2:AB:268:GLU:HG2	2.15	0.46
2:AB:1048:SER:OG	2:AB:1049:THR:N	2.49	0.46
3:AC:172:GLN:H	3:AC:175:GLN:HB2	1.80	0.46
4:AD:24:ALA:HA	7:AG:43:ILE:HA	1.97	0.46
8:AH:9:ILE:HD13	8:AH:56:THR:HG23	1.95	0.46
10:AJ:45:CYS:O	10:AJ:49:MET:HG2	2.15	0.46
1:BA:498:PRO:HA	1:BA:499:PRO:HD3	1.75	0.46
1:BA:816:LEU:HG	1:BA:817:PHE:N	2.30	0.46
1:BA:976:ALA:HB1	1:BA:981:TYR:HB3	1.96	0.46
1:BA:1291:VAL:HG22	1:BA:1473:LYS:CD	2.45	0.46
1:BA:1450:ILE:O	1:BA:1454:HIS:ND1	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1617:THR:O	1:BA:1617:THR:OG1	2.33	0.46
2:BB:72:VAL:HG13	2:BB:95:LEU:O	2.14	0.46
2:BB:497:ILE:HD12	2:BB:497:ILE:HA	1.69	0.46
2:BB:970:LYS:HG2	2:BB:1000:LEU:HD21	1.96	0.46
2:BB:974:LEU:O	10:BJ:47:ARG:NH1	2.48	0.46
2:BB:1006:ASN:HB3	2:BB:1010:ASN:O	2.15	0.46
3:BC:67:PHE:CE1	3:BC:318:VAL:HG22	2.50	0.46
11:BK:117:LEU:O	11:BK:121:LEU:HB2	2.15	0.46
1:CA:113:VAL:HG11	1:CA:181:LEU:HD23	1.97	0.46
1:CA:223:PHE:CZ	1:CA:227:LEU:HD21	2.50	0.46
1:CA:1137:SER:HB2	5:CE:205:SER:HB2	1.96	0.46
1:CA:1200:MET:HG2	1:CA:1573:TYR:CD2	2.50	0.46
2:CB:286:ARG:HG2	13:CM:27:PHE:CG	2.50	0.46
2:CB:425:ILE:HG22	2:CB:426:ALA:N	2.30	0.46
2:CB:1073:GLU:O	2:CB:1076:ARG:HB3	2.15	0.46
9:CI:99:LEU:HB2	9:CI:111:PHE:CZ	2.43	0.46
13:CM:51:PHE:O	13:CM:66:THR:HG23	2.15	0.46
1:DA:95:TYR:CZ	1:DA:245:LYS:HB3	2.50	0.46
1:DA:829:GLY:HA2	2:DB:1027:TYR:CD2	2.50	0.46
1:DA:1105:ARG:NH2	1:DA:1138:GLU:OE2	2.46	0.46
2:DB:104:ILE:HD12	2:DB:169:ARG:HG3	1.97	0.46
2:DB:211:ARG:N	2:DB:401:GLU:OE2	2.49	0.46
2:DB:276:ILE:O	2:DB:280:LEU:HG	2.14	0.46
2:DB:376:PHE:HB2	2:DB:592:ILE:HD11	1.97	0.46
2:DB:751:ILE:HG22	2:DB:770:ASN:OD1	2.15	0.46
2:DB:954:PHE:H	2:DB:955:PRO:HD2	1.80	0.46
5:DE:143:ASN:HB3	5:DE:146:HIS:CE1	2.50	0.46
1:EA:32:ILE:HG23	1:EA:47:GLY:O	2.15	0.46
1:EA:719:ILE:HG23	1:EA:723:TYR:O	2.14	0.46
1:EA:1269:LYS:HD2	1:EA:1271:ILE:HD11	1.97	0.46
1:EA:1296:PHE:O	1:EA:1468:LYS:NZ	2.44	0.46
2:EB:567:SER:HB2	14:EN:59:PRO:CB	2.43	0.46
2:EB:832:TRP:HE3	2:EB:834:LYS:H	1.63	0.46
2:EB:876:SER:C	2:EB:878:GLU:H	2.15	0.46
3:EC:48:ASP:CG	3:EC:49:ALA:N	2.68	0.46
3:EC:328:LEU:HA	3:EC:328:LEU:HD13	1.50	0.46
5:EE:28:TYR:HA	5:EE:64:PRO:HA	1.97	0.46
11:EK:77:ARG:HG3	11:EK:78:TYR:N	2.30	0.46
1:FA:118:TYR:CD2	1:FA:223:PHE:HD1	2.33	0.46
1:FA:426:ALA:O	1:FA:430:ILE:HG22	2.15	0.46
1:FA:527:PRO:HG3	1:FA:534:THR:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:719:ILE:HG23	1:FA:723:TYR:O	2.14	0.46
2:FB:428:VAL:O	2:FB:432:ILE:HD12	2.14	0.46
6:FF:106:PRO:HG2	7:FG:55:GLU:HG2	1.97	0.46
13:FM:62:TYR:O	13:FM:63:GLU:HG3	2.15	0.46
14:FN:97:SER:OG	14:FN:98:SER:N	2.48	0.46
1:AA:579:ARG:HG3	1:AA:579:ARG:HH11	1.80	0.46
1:AA:1220:PRO:O	1:AA:1223:ARG:HB2	2.16	0.46
2:AB:138:LEU:O	2:AB:139:LEU:HD23	2.15	0.46
2:AB:260:PHE:HD1	2:AB:261:ARG:N	2.13	0.46
2:AB:275:MET:SD	2:AB:330:LEU:HD21	2.56	0.46
2:AB:906:ARG:HD2	3:AC:93:GLN:HG3	1.96	0.46
2:AB:1120:ILE:HD11	7:BO:287:GLU:HG3	1.97	0.46
5:AE:64:PRO:HG2	5:AE:75:MET:HB3	1.97	0.46
13:AM:81:PHE:HB3	14:AN:52:GLN:O	2.15	0.46
1:BA:379:GLU:HB3	7:BO:292:HIS:CD2	2.51	0.46
1:BA:985:ARG:HG2	1:BA:988:SER:H	1.79	0.46
1:BA:1070:LEU:HD11	1:BA:1161:VAL:HG11	1.98	0.46
1:BA:1269:LYS:HD2	1:BA:1271:ILE:HD11	1.97	0.46
1:BA:1622:LEU:HD11	2:BB:1194:ILE:HD13	1.97	0.46
1:BA:1657:LEU:HA	7:BG:107:ILE:HG12	1.98	0.46
2:BB:379:ARG:CZ	2:BB:580:GLY:HA2	2.45	0.46
2:BB:397:THR:HA	2:BB:400:GLN:OE1	2.15	0.46
2:BB:1044:PHE:O	2:BB:1045:GLN:HB3	2.16	0.46
3:BC:245:ARG:H	3:BC:245:ARG:HD2	1.81	0.46
4:BD:33:THR:O	4:BD:36:VAL:HB	2.15	0.46
6:BF:97:ARG:HA	6:BF:100:GLN:HG3	1.97	0.46
9:BI:20:PRO:O	9:BI:22:ALA:N	2.48	0.46
14:BN:71:PRO:HD2	14:BN:89:ILE:HD11	1.97	0.46
1:CA:678:VAL:HG22	1:CA:781:LEU:O	2.14	0.46
1:CA:1450:ILE:O	1:CA:1454:HIS:ND1	2.41	0.46
1:CA:1564:ASN:O	1:CA:1567:ASN:HB3	2.15	0.46
2:CB:161:LEU:HD11	2:CB:409:TYR:CE2	2.50	0.46
2:CB:244:THR:O	2:CB:244:THR:OG1	2.32	0.46
2:CB:791:LYS:NZ	3:CC:215:ASP:O	2.48	0.46
3:CC:59:ILE:HG12	3:CC:60:ASP:N	2.30	0.46
7:CG:38:ILE:H	7:CG:38:ILE:HG13	1.20	0.46
13:CM:112:LYS:O	13:CM:113:ILE:HG13	2.15	0.46
1:DA:1102:LEU:CD1	1:DA:1105:ARG:HH21	2.29	0.46
2:DB:38:LEU:O	2:DB:40:GLU:N	2.48	0.46
2:DB:415:GLU:O	2:DB:418:ASP:HB3	2.15	0.46
2:DB:532:HIS:CE1	2:DB:544:HIS:CE1	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:636:GLN:HG3	2:DB:637:TYR:N	2.30	0.46
2:DB:832:TRP:HE3	2:DB:834:LYS:H	1.61	0.46
3:DC:65:ASN:OD1	3:DC:68:ARG:NH1	2.47	0.46
3:DC:85:PHE:CG	3:DC:204:LEU:HD13	2.50	0.46
1:EA:188:TYR:O	1:EA:191:MET:N	2.48	0.46
1:EA:754:LYS:HB2	1:EA:782:ASP:OD2	2.15	0.46
1:EA:835:LEU:HG	1:EA:985:ARG:NH1	2.26	0.46
1:EA:1238:MET:SD	1:EA:1524:VAL:HA	2.56	0.46
1:EA:1240:LEU:HD11	1:EA:1529:MET:SD	2.55	0.46
1:EA:1565:GLU:O	1:EA:1568:ASN:HB3	2.15	0.46
2:EB:492:ASN:OD1	2:EB:494:TYR:HB2	2.14	0.46
2:EB:526:GLY:N	2:EB:696:ILE:HG22	2.31	0.46
3:EC:59:ILE:HG12	3:EC:60:ASP:H	1.79	0.46
12:EL:33:GLU:HG3	12:EL:53:HIS:ND1	2.30	0.46
1:FA:618:TYR:HB3	1:FA:670:ILE:CD1	2.46	0.46
1:FA:663:GLY:O	1:FA:790:LYS:HE3	2.15	0.46
1:FA:1189:ALA:O	1:FA:1193:VAL:HG23	2.16	0.46
1:FA:1565:GLU:O	1:FA:1568:ASN:HB3	2.14	0.46
2:FB:122:TYR:CE2	2:FB:183:HIS:CD2	3.03	0.46
2:FB:944:GLN:HA	2:FB:945:PRO:HD3	1.73	0.46
2:FB:1026:ILE:O	2:FB:1026:ILE:HG13	2.13	0.46
2:FB:1058:GLN:HG3	2:FB:1058:GLN:H	1.48	0.46
2:FB:1093:LEU:HD11	2:FB:1179:PRO:HB3	1.97	0.46
3:FC:73:SER:O	3:FC:212:ILE:HD13	2.15	0.46
1:AA:90:PHE:HE1	1:AA:1623:THR:HG23	1.81	0.46
1:AA:93:GLN:HB2	1:AA:355:PHE:HE2	1.78	0.46
1:AA:712:ILE:N	11:AK:106:GLN:OE1	2.39	0.46
1:AA:934:LYS:HB3	2:AB:955:PRO:HG2	1.97	0.46
2:AB:420:TYR:CE1	2:AB:424:ILE:HD11	2.50	0.46
3:AC:86:PHE:HE2	3:AC:205:LYS:HE3	1.81	0.46
4:AD:36:VAL:HG22	7:AG:38:ILE:HG21	1.96	0.46
8:AH:5:LEU:O	8:AH:6:PHE:HB2	2.15	0.46
7:AO:300:VAL:HG23	7:AO:308:ILE:HB	1.96	0.46
1:BA:132:GLU:OE2	1:BA:201:ARG:NH2	2.49	0.46
1:BA:680:LEU:HD12	1:BA:820:TYR:CD1	2.50	0.46
1:BA:1553:TYR:HB3	5:BE:150:VAL:HG21	1.97	0.46
2:BB:548:LYS:HG2	2:BB:550:ARG:NH2	2.30	0.46
2:BB:661:GLU:HG3	2:BB:662:ASP:N	2.30	0.46
2:BB:821:ILE:HD11	2:BB:899:GLN:OE1	2.16	0.46
4:BD:47:LYS:HD3	4:BD:82:LEU:HD13	1.96	0.46
14:BN:72:VAL:HG22	14:BN:137:PHE:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:197:LEU:HD23	1:CA:202:THR:O	2.14	0.46
1:CA:476:VAL:HG21	2:CB:1091:ARG:HE	1.80	0.46
1:CA:515:ASN:ND2	1:CA:519:LEU:HD11	2.30	0.46
1:CA:596:HIS:CD2	1:CA:596:HIS:N	2.81	0.46
1:CA:1237:GLN:H	1:CA:1544:ASN:CB	2.26	0.46
1:CA:1272:VAL:C	9:CI:48:VAL:HG13	2.36	0.46
1:CA:1326:GLU:O	1:CA:1330:VAL:HG23	2.16	0.46
1:CA:1539:ASP:O	5:CE:147:HIS:CD2	2.69	0.46
1:CA:1553:TYR:HD1	5:CE:144:ILE:HB	1.80	0.46
2:CB:219:ARG:HG2	2:CB:221:SER:HB3	1.97	0.46
2:CB:463:TYR:HE2	7:DG:174:GLU:HG3	1.80	0.46
2:CB:800:TYR:CD1	2:CB:910:THR:HG23	2.49	0.46
3:CC:172:GLN:H	3:CC:175:GLN:HB2	1.79	0.46
5:CE:120:ALA:O	5:CE:123:LEU:HB2	2.16	0.46
1:DA:13:SER:OG	1:DA:1631:ARG:NH1	2.49	0.46
1:DA:670:ILE:HD13	1:DA:670:ILE:N	2.31	0.46
1:DA:839:GLY:O	1:DA:842:TRP:HB2	2.16	0.46
1:DA:928:MET:HG2	2:DB:955:PRO:HG3	1.98	0.46
1:DA:1450:ILE:O	1:DA:1454:HIS:ND1	2.39	0.46
1:DA:1484:LEU:HD21	2:DB:304:ASP:HB3	1.98	0.46
2:DB:876:SER:C	2:DB:878:GLU:H	2.19	0.46
2:DB:1047:ARG:CZ	2:DB:1059:PRO:HB3	2.45	0.46
3:DC:197:ARG:H	3:DC:200:GLN:NE2	2.12	0.46
7:DG:46:TYR:CD1	7:DG:117:TRP:HD1	2.34	0.46
8:DH:5:LEU:CB	8:DH:60:ALA:HA	2.34	0.46
8:DH:59:ILE:HG13	8:DH:142:LEU:HA	1.98	0.46
11:DK:54:THR:HG22	11:DK:61:ALA:CA	2.43	0.46
11:DK:80:ILE:HD13	11:DK:105:ILE:HD11	1.97	0.46
1:EA:505:LEU:HD13	1:EA:637:PHE:HB2	1.97	0.46
1:EA:832:ASP:OD2	1:EA:924:SER:OG	2.20	0.46
1:EA:966:LEU:HD23	1:EA:969:PHE:CD2	2.50	0.46
1:EA:1095:LEU:HD21	1:EA:1134:GLY:HA3	1.97	0.46
2:EB:687:THR:HG1	2:EB:688:HIS:CE1	2.33	0.46
14:EN:64:ILE:O	14:EN:66:LYS:N	2.49	0.46
1:FA:642:ASN:HB3	2:FB:1086:PHE:CD1	2.50	0.46
1:FA:1097:TYR:HD2	1:FA:1123:VAL:HG13	1.79	0.46
1:FA:1623:THR:HA	1:FA:1626:VAL:HG22	1.97	0.46
2:FB:156:ARG:HA	2:FB:156:ARG:HD2	1.49	0.46
2:FB:662:ASP:O	2:FB:663:ILE:HB	2.16	0.46
2:FB:837:LEU:HD22	2:FB:837:LEU:HA	1.60	0.46
3:FC:83:VAL:HG13	3:FC:206:ALA:CB	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:FE:33:GLU:O	5:FE:36:GLU:N	2.49	0.46
7:FG:29:ASP:OD1	7:FG:29:ASP:N	2.40	0.46
7:FG:59:GLN:O	7:FG:62:MET:N	2.48	0.46
8:FH:94:ASP:N	8:FH:94:ASP:OD1	2.48	0.46
9:FI:121:PHE:H	9:FI:121:PHE:HD1	1.63	0.46
13:FM:10:ILE:HG22	13:FM:11:GLU:H	1.81	0.46
1:AA:1003:ARG:NH2	2:AB:533:THR:HG21	2.31	0.46
2:AB:655:TYR:CE2	2:AB:657:PRO:HB2	2.51	0.46
2:AB:764:ASN:HB3	10:AJ:59:LYS:HZ1	1.81	0.46
2:AB:841:ASP:HB3	2:AB:843:ASP:OD1	2.15	0.46
2:AB:998:GLU:O	2:AB:1001:ALA:N	2.49	0.46
1:BA:214:ASP:OD2	5:BE:177:ARG:NH2	2.48	0.46
1:BA:795:HIS:O	1:BA:798:HIS:HB3	2.15	0.46
1:BA:1076:LEU:HD23	1:BA:1076:LEU:HA	1.77	0.46
2:BB:203:ILE:H	2:BB:203:ILE:HD12	1.80	0.46
2:BB:751:ILE:HG22	2:BB:770:ASN:OD1	2.15	0.46
8:BH:14:GLU:HG2	8:BH:15:VAL:N	2.30	0.46
7:BO:288:ASN:O	7:BO:292:HIS:ND1	2.49	0.46
1:CA:1003:ARG:CZ	2:CB:520:LEU:HD22	2.45	0.46
1:CA:1224:GLU:HB3	1:CA:1233:ILE:HG22	1.97	0.46
1:CA:1226:VAL:HG22	1:CA:1598:PHE:CE1	2.51	0.46
1:CA:1440:ASN:C	1:CA:1442:VAL:H	2.18	0.46
1:CA:1454:HIS:HB2	1:CA:1457:ILE:HG13	1.98	0.46
2:CB:125:GLU:O	2:CB:129:ARG:HB2	2.16	0.46
2:CB:187:SER:CB	10:CJ:59:LYS:HZ3	2.28	0.46
2:CB:825:PHE:HZ	2:CB:899:GLN:O	1.98	0.46
2:CB:1130:ARG:NH2	2:CB:1195:ARG:HD2	2.30	0.46
3:CC:66:ALA:O	3:CC:70:ILE:HG13	2.15	0.46
3:CC:204:LEU:O	3:CC:204:LEU:HG	2.15	0.46
11:CK:46:LYS:HE3	11:CK:66:VAL:O	2.16	0.46
1:DA:23:GLU:OE1	2:DB:1195:ARG:NH1	2.47	0.46
1:DA:569:SER:OG	1:DA:570:THR:HG23	2.16	0.46
1:DA:571:HIS:CE1	1:DA:572:THR:HG23	2.50	0.46
1:DA:1031:HIS:HB2	1:DA:1182:GLY:O	2.16	0.46
1:DA:1124:LEU:HD23	1:DA:1124:LEU:HA	1.71	0.46
2:DB:871:ILE:HD13	2:DB:873:THR:HG22	1.96	0.46
2:DB:996:PHE:HA	2:DB:999:GLN:HG3	1.98	0.46
2:DB:1047:ARG:NH1	2:DB:1050:GLY:H	2.13	0.46
4:DD:93:GLN:HG3	4:DD:94:ARG:N	2.30	0.46
10:DJ:54:VAL:C	10:DJ:56:LEU:H	2.19	0.46
13:DM:10:ILE:HG22	13:DM:11:GLU:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:DM:10:ILE:HG22	13:DM:11:GLU:N	2.30	0.46
1:EA:1490:GLU:O	1:EA:1493:CYS:HB2	2.16	0.46
2:EB:215:MET:O	2:EB:234:ILE:HD13	2.15	0.46
2:EB:260:PHE:HD2	2:EB:276:ILE:HG12	1.81	0.46
2:EB:264:TRP:NE1	2:EB:265:ARG:HG2	2.30	0.46
2:EB:393:ASN:ND2	2:EB:395:ASP:HB2	2.30	0.46
2:EB:636:GLN:HG3	2:EB:637:TYR:N	2.30	0.46
2:EB:843:ASP:OD1	2:EB:845:LEU:HG	2.16	0.46
2:EB:1110:ILE:HD13	2:EB:1111:LEU:HD23	1.97	0.46
2:EB:1130:ARG:NH2	2:EB:1195:ARG:HD2	2.30	0.46
2:EB:1151:ILE:HG22	2:EB:1152:PHE:N	2.30	0.46
3:EC:113:LEU:HD11	3:EC:130:ASN:C	2.36	0.46
3:EC:132:ILE:HD13	3:EC:132:ILE:HA	1.65	0.46
6:EF:86:THR:HG23	6:EF:89:GLU:OE1	2.15	0.46
6:EF:136:ARG:O	6:EF:143:PHE:HB2	2.15	0.46
14:EN:71:PRO:HD2	14:EN:89:ILE:HD11	1.96	0.46
1:FA:53:ALA:O	1:FA:54:LEU:HD23	2.16	0.46
1:FA:90:PHE:HE1	1:FA:1623:THR:HG23	1.80	0.46
1:FA:457:LYS:O	1:FA:459:ALA:N	2.48	0.46
1:FA:729:LYS:HE3	1:FA:779:GLY:O	2.14	0.46
1:FA:955:ARG:HB3	1:FA:955:ARG:HH11	1.80	0.46
2:FB:280:LEU:O	2:FB:323:ARG:NH2	2.48	0.46
2:FB:286:ARG:HG2	13:FM:27:PHE:CD1	2.51	0.46
2:FB:582:SER:O	2:FB:598:HIS:NE2	2.49	0.46
2:FB:872:LYS:HA	2:FB:872:LYS:HD3	1.57	0.46
6:FF:118:LEU:HD13	6:FF:118:LEU:HA	1.80	0.46
14:FN:139:VAL:HB	14:FN:140:SER:H	1.27	0.46
1:AA:816:LEU:HG	1:AA:817:PHE:HD1	1.80	0.46
1:AA:1101:THR:O	1:AA:1105:ARG:HB2	2.16	0.46
1:AA:1612:LYS:HD3	1:AA:1621:PHE:CD1	2.50	0.46
1:AA:1646:LEU:HD11	2:AB:1085:SER:HB3	1.98	0.46
2:AB:548:LYS:HA	2:AB:550:ARG:NH2	2.30	0.46
2:AB:970:LYS:HG2	2:AB:1000:LEU:HD21	1.97	0.46
3:AC:173:GLY:C	3:AC:175:GLN:H	2.19	0.46
5:AE:56:LYS:HG3	5:AE:84:ASP:OD2	2.16	0.46
14:AN:109:LEU:O	14:AN:110:LEU:HD23	2.15	0.46
1:BA:395:LEU:HB2	7:BO:273:VAL:HG13	1.98	0.46
1:BA:683:LYS:HB2	8:BH:20:TYR:CE1	2.51	0.46
1:BA:1116:GLN:HB3	5:BE:207:ARG:HH21	1.80	0.46
1:BA:1619:CYS:O	1:BA:1622:LEU:HB3	2.15	0.46
2:BB:276:ILE:O	2:BB:280:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BH:94:ASP:OD1	8:BH:94:ASP:N	2.49	0.46
9:BI:60:LEU:HD23	9:BI:60:LEU:HA	1.77	0.46
1:CA:4:SER:HB2	1:CA:573:LEU:CD2	2.45	0.46
1:CA:197:LEU:HD21	1:CA:203:THR:O	2.16	0.46
1:CA:498:PRO:HA	1:CA:499:PRO:HD3	1.74	0.46
1:CA:735:VAL:O	1:CA:739:VAL:HG22	2.16	0.46
1:CA:1101:THR:O	1:CA:1105:ARG:HB2	2.16	0.46
1:CA:1130:ALA:HB1	6:CF:82:THR:HB	1.98	0.46
1:CA:1216:THR:HB	1:CA:1221:ARG:HD3	1.98	0.46
3:CC:61:THR:HA	3:CC:298:PHE:CZ	2.51	0.46
8:CH:33:GLN:HB2	8:CH:36:CYS:HB2	1.97	0.46
13:CM:85:LYS:C	13:CM:87:SER:H	2.19	0.46
1:DA:239:PHE:CG	1:DA:260:GLN:HG2	2.50	0.46
1:DA:456:VAL:O	1:DA:460:LEU:HG	2.16	0.46
1:DA:1057:ILE:H	1:DA:1057:ILE:HD12	1.80	0.46
1:DA:1260:LYS:HA	1:DA:1499:ARG:O	2.16	0.46
1:DA:1344:ILE:H	1:DA:1344:ILE:HD12	1.80	0.46
3:DC:245:ARG:HD2	3:DC:245:ARG:N	2.30	0.46
5:DE:176:PRO:HB2	5:DE:212:ARG:HD3	1.98	0.46
6:DF:153:VAL:O	6:DF:154:ASP:HB2	2.15	0.46
14:DN:75:GLU:H	14:DN:91:ASP:CG	2.18	0.46
7:DO:302:GLU:HB3	7:DO:303:ASP:H	1.59	0.46
2:EB:693:PRO:HB2	2:EB:984:TRP:CZ3	2.50	0.46
7:EG:87:LEU:HA	7:EG:120:VAL:HG23	1.98	0.46
7:EO:276:LYS:O	7:EO:280:PHE:HB2	2.15	0.46
1:FA:488:PRO:HD2	2:FB:781:TYR:CZ	2.50	0.46
1:FA:497:VAL:HG23	1:FA:606:ARG:O	2.15	0.46
1:FA:595:LEU:HD22	1:FA:595:LEU:HA	1.77	0.46
1:FA:1189:ALA:HA	1:FA:1192:SER:OG	2.16	0.46
2:FB:210:ARG:HH22	2:FB:625:GLU:CD	2.19	0.46
2:FB:1047:ARG:HG3	2:FB:1068:GLY:HA2	1.98	0.46
3:FC:209:ILE:HG12	3:FC:210:LEU:O	2.15	0.46
8:FH:12:VAL:HA	8:FH:28:ALA:HB2	1.98	0.46
8:FH:15:VAL:HG22	8:FH:26:ILE:HG12	1.96	0.46
9:FI:2:SER:O	9:FI:9:PHE:N	2.43	0.46
9:FI:109:THR:HG21	9:FI:122:ARG:NH1	2.30	0.46
1:AA:113:VAL:HG13	1:AA:182:LYS:CG	2.44	0.46
1:AA:113:VAL:HG11	1:AA:181:LEU:HD23	1.97	0.46
1:AA:832:ASP:OD2	1:AA:924:SER:OG	2.25	0.46
1:AA:850:SER:O	1:AA:853:THR:N	2.46	0.46
1:AA:1148:LEU:CD2	1:AA:1163:GLU:HG2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1148:LEU:HD21	1:AA:1163:GLU:HG2	1.98	0.46
2:AB:209:GLN:OE1	2:AB:237:ARG:HB2	2.16	0.46
2:AB:534:PRO:O	2:AB:539:CYS:HA	2.14	0.46
2:AB:850:THR:O	2:AB:881:TYR:HA	2.15	0.46
3:AC:195:LYS:HE3	10:AJ:2:ILE:HD11	1.97	0.46
8:AH:40:LEU:HD12	8:AH:41:ASP:N	2.30	0.46
1:BA:93:GLN:HG3	1:BA:1627:LEU:HD13	1.97	0.46
1:BA:748:ASN:N	1:BA:748:ASN:ND2	2.57	0.46
1:BA:1562:ILE:O	1:BA:1566:ILE:HG13	2.15	0.46
2:BB:211:ARG:NH2	2:BB:243:GLN:OE1	2.36	0.46
2:BB:234:ILE:HB	2:BB:250:LEU:HB2	1.97	0.46
2:BB:262:PHE:O	2:BB:268:GLU:HG2	2.15	0.46
2:BB:705:PRO:HG3	2:BB:920:ARG:CZ	2.45	0.46
2:BB:714:ARG:HG2	2:BB:959:THR:CG2	2.45	0.46
2:BB:778:TYR:CE2	2:BB:937:PRO:HD3	2.51	0.46
2:BB:1047:ARG:NH2	2:BB:1059:PRO:HB3	2.31	0.46
2:BB:1153:ILE:HD12	2:BB:1154:ASP:H	1.80	0.46
7:BG:140:GLN:HB3	7:BG:217:TRP:CD1	2.51	0.46
11:BK:53:ALA:HB1	11:BK:104:ARG:HH12	1.80	0.46
1:CA:530:TRP:CZ2	1:CA:607:VAL:HG21	2.51	0.46
1:CA:602:GLY:O	1:CA:653:THR:HG22	2.16	0.46
1:CA:1612:LYS:HD3	1:CA:1621:PHE:CD1	2.51	0.46
2:CB:770:ASN:O	10:CJ:48:ARG:NE	2.48	0.46
2:CB:850:THR:N	2:CB:882:ILE:HG13	2.20	0.46
3:CC:48:ASP:CG	3:CC:49:ALA:N	2.69	0.46
3:CC:254:GLY:O	3:CC:268:LYS:HB2	2.15	0.46
9:CI:94:MET:SD	9:CI:121:PHE:HE1	2.39	0.46
9:CI:95:ASN:HB2	9:CI:113:THR:HB	1.97	0.46
1:DA:1076:LEU:HD23	1:DA:1076:LEU:HA	1.72	0.46
1:DA:1102:LEU:HD12	1:DA:1102:LEU:HA	1.61	0.46
1:DA:1105:ARG:HH22	1:DA:1138:GLU:CD	2.18	0.46
1:DA:1164:LYS:O	1:DA:1167:ARG:HB3	2.15	0.46
1:DA:1262:LEU:O	1:DA:1265:GLU:HB2	2.16	0.46
2:DB:561:ILE:HB	2:DB:562:PRO:HD3	1.98	0.46
2:DB:854:GLU:HG3	2:DB:875:HIS:HA	1.98	0.46
2:DB:1060:VAL:HG22	2:DB:1061:LYS:H	1.80	0.46
3:DC:97:LEU:O	3:DC:100:ARG:HB2	2.15	0.46
3:DC:223:SER:OG	10:DJ:12:LYS:HA	2.16	0.46
5:DE:56:LYS:HG3	5:DE:84:ASP:OD2	2.16	0.46
7:DG:105:ILE:HG23	7:DG:115:PHE:O	2.16	0.46
10:DJ:2:ILE:HG12	10:DJ:3:VAL:HG23	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:10:GLU:HG3	1:EA:1645:LYS:HE3	1.97	0.46
1:EA:211:THR:HB	5:EE:173:SER:HB2	1.98	0.46
1:EA:467:PHE:O	1:EA:471:MET:HB2	2.16	0.46
1:EA:727:THR:OG1	1:EA:729:LYS:N	2.44	0.46
1:EA:903:ILE:O	1:EA:907:VAL:HG23	2.16	0.46
1:EA:964:LYS:HE2	1:EA:964:LYS:HB3	1.60	0.46
1:EA:1003:ARG:CZ	2:EB:520:LEU:HD22	2.46	0.46
1:EA:1555:VAL:HG13	1:EA:1556:GLU:H	1.81	0.46
2:EB:212:ASN:OD1	2:EB:239:VAL:HG13	2.15	0.46
2:EB:257:GLN:HG3	2:EB:316:ARG:HH22	1.81	0.46
2:EB:296:ASP:O	2:EB:298:LYS:N	2.49	0.46
2:EB:306:LEU:HD23	2:EB:310:LEU:HG	1.98	0.46
2:EB:800:TYR:CD1	2:EB:910:THR:HG23	2.51	0.46
2:EB:848:ILE:HD12	2:EB:885:VAL:HG21	1.97	0.46
2:EB:954:PHE:H	2:EB:955:PRO:HD2	1.80	0.46
3:EC:51:GLU:HB3	3:EC:303:GLU:HA	1.96	0.46
4:ED:22:ILE:H	7:EG:76:LYS:NZ	2.12	0.46
7:EG:41:VAL:O	7:EG:122:LEU:HB2	2.15	0.46
1:FA:475:ARG:NH1	2:FB:1068:GLY:O	2.49	0.46
1:FA:1326:GLU:O	1:FA:1330:VAL:HG23	2.15	0.46
2:FB:194:PHE:O	2:FB:200:GLU:HA	2.16	0.46
2:FB:850:THR:N	2:FB:882:ILE:HG13	2.17	0.46
3:FC:95:GLU:HG2	3:FC:96:VAL:N	2.31	0.46
3:FC:103:LEU:HB2	10:FJ:5:VAL:HG11	1.98	0.46
3:FC:198:PRO:O	10:FJ:64:ASN:ND2	2.41	0.46
3:FC:230:LEU:HD11	3:FC:270:ALA:HB3	1.97	0.46
7:FG:66:LEU:HD11	7:FG:87:LEU:HD22	1.97	0.46
8:FH:59:ILE:HG13	8:FH:142:LEU:HA	1.97	0.46
10:FJ:48:ARG:HB3	10:FJ:48:ARG:HH11	1.81	0.46
13:FM:70:SER:O	13:FM:74:ASN:HB2	2.16	0.46
7:FO:266:GLN:HB3	7:FO:267:ALA:H	1.52	0.46
1:AA:113:VAL:HG22	1:AA:182:LYS:CE	2.45	0.46
1:AA:250:LYS:HD3	1:AA:428:VAL:HG22	1.98	0.46
1:AA:369:LEU:HD12	2:AB:1054:SER:HB2	1.98	0.46
1:AA:372:LYS:CB	7:AO:297:LEU:HD22	2.46	0.46
1:AA:1021:ARG:O	1:AA:1025:LYS:HB2	2.16	0.46
1:AA:1321:PHE:HD1	1:AA:1496:SER:OG	1.99	0.46
1:AA:1637:PRO:CB	1:AA:1647:ASN:HD21	2.27	0.46
2:AB:459:SER:O	2:AB:462:GLN:N	2.49	0.46
2:AB:1178:ILE:HD12	2:AB:1182:LEU:HB3	1.98	0.46
5:AE:20:LYS:NZ	5:AE:34:GLU:O	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:58:LEU:HD23	7:AG:58:LEU:HA	1.61	0.46
7:AG:80:VAL:HG12	7:AG:82:LEU:HD23	1.96	0.46
8:AH:100:THR:O	8:AH:116:TYR:HA	2.16	0.46
1:BA:406:LEU:CD2	7:BO:270:LEU:HD11	2.46	0.46
1:BA:584:ARG:HD3	6:BF:116:ASP:HB2	1.98	0.46
1:BA:804:GLU:CD	1:BA:804:GLU:H	2.15	0.46
1:BA:955:ARG:HB3	1:BA:955:ARG:HH11	1.80	0.46
1:BA:1457:ILE:HA	1:BA:1474:LEU:HD22	1.97	0.46
2:BB:467:THR:HB	2:BB:469:ASN:ND2	2.27	0.46
3:BC:134:LEU:HD23	3:BC:169:PHE:HA	1.97	0.46
3:BC:136:LEU:HD22	3:BC:167:LEU:HA	1.97	0.46
3:BC:245:ARG:HD2	3:BC:245:ARG:N	2.31	0.46
5:BE:133:GLU:HB3	5:BE:135:PHE:CE1	2.49	0.46
11:BK:58:GLY:C	11:BK:60:SER:N	2.69	0.46
14:BN:31:LYS:O	14:BN:33:LYS:N	2.49	0.46
1:CA:1073:TYR:HD2	1:CA:1074:TYR:CE2	2.33	0.46
1:CA:1556:GLU:HG3	5:CE:153:HIS:NE2	2.31	0.46
2:CB:559:SER:C	2:CB:561:ILE:H	2.19	0.46
2:CB:999:GLN:NE2	14:CN:166:LEU:HD21	2.31	0.46
3:CC:201:GLU:C	3:CC:202:ILE:HD12	2.36	0.46
3:CC:333:ILE:HD12	3:CC:333:ILE:HA	1.65	0.46
8:CH:59:ILE:HG13	8:CH:142:LEU:HA	1.98	0.46
8:CH:100:THR:O	8:CH:116:TYR:HA	2.16	0.46
14:CN:109:LEU:O	14:CN:110:LEU:HD23	2.15	0.46
1:DA:62:CYS:HB2	1:DA:72:CYS:SG	2.55	0.46
1:DA:345:LEU:H	1:DA:345:LEU:HG	1.36	0.46
1:DA:507:TYR:HB3	1:DA:579:ARG:HH12	1.81	0.46
1:DA:806:ALA:O	1:DA:809:VAL:N	2.49	0.46
1:DA:818:THR:CG2	2:DB:780:GLY:HA3	2.46	0.46
1:DA:1238:MET:O	1:DA:1521:THR:HG23	2.16	0.46
2:DB:244:THR:O	2:DB:244:THR:OG1	2.29	0.46
2:DB:273:VAL:O	2:DB:277:LEU:HD12	2.15	0.46
2:DB:295:ASN:HB3	14:DN:104:LEU:HD13	1.98	0.46
2:DB:307:GLU:OE2	2:DB:311:ARG:NH1	2.45	0.46
2:DB:409:TYR:O	2:DB:413:LEU:HB2	2.15	0.46
2:DB:904:LYS:C	2:DB:905:TYR:CD1	2.87	0.46
2:DB:906:ARG:HD2	3:DC:93:GLN:HG3	1.97	0.46
2:DB:908:ARG:NH2	12:DL:70:ARG:OXT	2.48	0.46
2:DB:1136:GLU:H	2:DB:1136:GLU:HG3	1.32	0.46
7:DO:315:SER:O	7:DO:315:SER:OG	2.32	0.46
1:EA:674:ILE:HG12	1:EA:783:LYS:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1184:ALA:O	1:EA:1186:GLY:N	2.49	0.46
1:EA:1440:ASN:C	1:EA:1442:VAL:H	2.18	0.46
1:EA:1463:ASP:O	1:EA:1465:GLU:N	2.45	0.46
11:EK:68:GLU:HG2	11:EK:72:LEU:HD23	1.98	0.46
14:EN:72:VAL:HG22	14:EN:137:PHE:HE1	1.79	0.46
14:EN:149:ASP:O	14:EN:153:VAL:HG12	2.16	0.46
7:EO:273:VAL:CG1	7:EO:274:SER:N	2.75	0.46
1:FA:50:TYR:OH	1:FA:370:PRO:HG3	2.15	0.46
1:FA:670:ILE:HD13	1:FA:670:ILE:N	2.29	0.46
1:FA:896:THR:HG21	1:FA:956:ARG:NH1	2.30	0.46
1:FA:1238:MET:HG3	1:FA:1524:VAL:HG22	1.97	0.46
2:FB:302:LEU:HD11	2:FB:379:ARG:CZ	2.45	0.46
5:FE:159:ASP:O	5:FE:163:GLU:HG2	2.16	0.46
13:FM:16:GLN:CB	13:FM:91:TYR:HA	2.46	0.46
1:AA:603:HIS:HE2	1:AA:624:TYR:HH	1.62	0.46
1:AA:659:THR:HG22	1:AA:666:VAL:HG22	1.97	0.46
1:AA:748:ASN:N	1:AA:748:ASN:ND2	2.57	0.46
1:AA:1007:ILE:HG22	2:AB:515:THR:HG22	1.98	0.46
1:AA:1566:ILE:HG13	1:AA:1566:ILE:H	1.15	0.46
2:AB:73:ILE:HG23	2:AB:74:PHE:N	2.30	0.46
2:AB:894:LYS:HA	12:AL:54:ARG:NH1	2.30	0.46
2:AB:904:LYS:C	2:AB:905:TYR:CD1	2.88	0.46
1:BA:335:LEU:O	1:BA:339:PHE:HD1	1.98	0.46
1:BA:1094:ALA:HB1	1:BA:1135:SER:HB2	1.98	0.46
2:BB:140:LYS:HE2	2:BB:153:PHE:CD2	2.51	0.46
2:BB:708:ASP:OD1	2:BB:708:ASP:N	2.47	0.46
2:BB:886:ASN:N	2:BB:902:SER:O	2.39	0.46
7:BG:67:ASN:O	7:BG:70:VAL:HG23	2.16	0.46
12:BL:64:LEU:HD12	12:BL:65:VAL:N	2.31	0.46
1:CA:127:TYR:HD1	1:CA:202:THR:HG21	1.81	0.46
1:CA:426:ALA:O	1:CA:430:ILE:HG22	2.16	0.46
1:CA:429:THR:HG21	7:CO:274:SER:CB	2.46	0.46
1:CA:674:ILE:CG2	1:CA:931:SER:HB2	2.46	0.46
1:CA:674:ILE:HG22	1:CA:675:SER:N	2.30	0.46
1:CA:692:TYR:O	1:CA:696:ILE:HG12	2.14	0.46
1:CA:724:PRO:O	1:CA:725:LEU:HD23	2.15	0.46
1:CA:1024:THR:O	1:CA:1028:GLU:N	2.48	0.46
1:CA:1325:LEU:HD13	1:CA:1325:LEU:HA	1.68	0.46
2:CB:286:ARG:HG2	13:CM:27:PHE:CD1	2.51	0.46
2:CB:660:LYS:HB3	2:CB:661:GLU:H	1.52	0.46
2:CB:731:VAL:HG11	10:CJ:59:LYS:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:172:GLN:HB2	3:CC:175:GLN:NE2	2.31	0.46
6:CF:119:ARG:HA	6:CF:122:MET:HG3	1.96	0.46
13:CM:33:PRO:HG2	13:CM:57:ASN:ND2	2.31	0.46
1:DA:905:SER:OG	1:DA:906:GLN:N	2.48	0.46
2:DB:122:TYR:CE2	2:DB:183:HIS:CD2	3.04	0.46
2:DB:423:ASN:O	2:DB:426:ALA:N	2.49	0.46
2:DB:542:LEU:HD23	2:DB:542:LEU:HA	1.79	0.46
2:DB:744:LEU:HD12	2:DB:800:TYR:O	2.16	0.46
2:DB:1058:GLN:H	2:DB:1058:GLN:HG3	1.46	0.46
3:DC:88:ASN:O	12:DL:60:ARG:NH1	2.47	0.46
3:DC:133:VAL:HG12	3:DC:170:GLU:HB2	1.97	0.46
3:DC:216:HIS:ND1	3:DC:218:LYS:HB3	2.30	0.46
10:DJ:21:TYR:CZ	10:DJ:25:LEU:HD11	2.51	0.46
14:DN:64:ILE:C	14:DN:66:LYS:H	2.20	0.46
1:EA:95:TYR:CZ	1:EA:245:LYS:HB3	2.50	0.46
1:EA:507:TYR:HB2	1:EA:637:PHE:CZ	2.51	0.46
1:EA:732:ILE:H	1:EA:732:ILE:HG12	1.31	0.46
1:EA:828:CYS:SG	2:EB:963:PHE:HZ	2.39	0.46
1:EA:1291:VAL:HA	1:EA:1473:LYS:HB2	1.96	0.46
1:EA:1446:ARG:HH12	1:EA:1462:PHE:HB3	1.80	0.46
1:EA:1564:ASN:O	1:EA:1567:ASN:HB3	2.16	0.46
3:EC:71:MET:HE3	3:EC:313:ILE:HG22	1.97	0.46
3:EC:146:ALA:HB2	3:EC:156:LEU:HA	1.98	0.46
3:EC:203:SER:O	3:EC:204:LEU:HB3	2.16	0.46
8:EH:14:GLU:HG2	8:EH:15:VAL:N	2.31	0.46
1:FA:1326:GLU:HG2	1:FA:1456:PHE:HD2	1.80	0.46
1:FA:1585:ILE:O	1:FA:1589:MET:HG3	2.15	0.46
2:FB:702:ASN:OD1	2:FB:756:LEU:HD13	2.16	0.46
2:FB:778:TYR:CE2	2:FB:937:PRO:HD3	2.51	0.46
2:FB:1060:VAL:HG22	2:FB:1061:LYS:N	2.30	0.46
3:FC:191:ILE:O	3:FC:193:LEU:HD13	2.16	0.46
3:FC:209:ILE:HD13	3:FC:209:ILE:H	1.80	0.46
5:FE:127:ILE:HD11	5:FE:132:ILE:CD1	2.46	0.46
9:FI:10:CYS:HB2	9:FI:17:LEU:HD21	1.98	0.46
1:AA:1032:VAL:O	1:AA:1182:GLY:N	2.49	0.46
1:AA:1124:LEU:HD23	1:AA:1124:LEU:HA	1.75	0.46
1:AA:1262:LEU:HD12	1:AA:1264:SER:OG	2.15	0.46
1:AA:1451:ILE:HA	1:AA:1457:ILE:HB	1.98	0.46
2:AB:210:ARG:HB2	2:AB:399:HIS:C	2.36	0.46
2:AB:505:ARG:HG3	2:AB:541:LEU:HD23	1.96	0.46
2:AB:526:GLY:CA	2:AB:696:ILE:HG22	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:787:MET:O	2:AB:788:ILE:HD13	2.16	0.46
1:BA:507:TYR:HB3	1:BA:579:ARG:NH1	2.31	0.46
1:BA:527:PRO:HG3	1:BA:534:THR:HA	1.98	0.46
1:BA:1324:LEU:HD22	1:BA:1492:ILE:HG23	1.98	0.46
2:BB:338:PHE:CZ	2:BB:353:VAL:HG13	2.51	0.46
6:BF:93:ILE:HD13	6:BF:93:ILE:HA	1.63	0.46
13:BM:30:PHE:CE1	13:BM:62:TYR:HE2	2.34	0.46
13:BM:70:SER:O	13:BM:74:ASN:HB2	2.16	0.46
1:CA:727:THR:OG1	1:CA:729:LYS:N	2.43	0.46
1:CA:780:ILE:H	1:CA:780:ILE:HG13	1.62	0.46
1:CA:1189:ALA:O	1:CA:1193:VAL:HG23	2.16	0.46
1:CA:1603:MET:O	1:CA:1606:SER:N	2.43	0.46
1:CA:1640:ARG:O	1:CA:1643:VAL:N	2.49	0.46
2:CB:201:LYS:NZ	2:CB:466:SER:HA	2.31	0.46
2:CB:604:ILE:O	2:CB:608:LEU:HG	2.15	0.46
2:CB:714:ARG:HG2	2:CB:959:THR:CG2	2.46	0.46
2:CB:916:LYS:HE3	2:CB:1040:VAL:HG13	1.97	0.46
2:CB:1077:ASP:O	2:CB:1080:ILE:HB	2.16	0.46
3:CC:228:ARG:HH12	14:CN:172:ALA:HB1	1.80	0.46
6:CF:69:LEU:O	6:CF:72:LYS:HB2	2.15	0.46
7:CG:41:VAL:HA	7:CG:42:PRO:HD3	1.77	0.46
7:CG:163:PRO:HB2	7:CG:166:TRP:CD1	2.51	0.46
1:DA:669:LEU:H	1:DA:787:GLY:HA2	1.81	0.46
1:DA:1229:ALA:HB1	1:DA:1595:TYR:CD2	2.51	0.46
2:DB:14:ALA:HB3	2:DB:978:ALA:O	2.16	0.46
2:DB:326:VAL:O	2:DB:330:LEU:HG	2.16	0.46
2:DB:501:ARG:NH2	2:DB:546:ALA:O	2.49	0.46
2:DB:676:VAL:HG12	2:DB:677:THR:N	2.31	0.46
1:EA:16:PHE:N	1:EA:16:PHE:CD1	2.83	0.46
1:EA:892:LEU:HG	1:EA:893:ASP:N	2.30	0.46
1:EA:1546:VAL:O	1:EA:1549:VAL:N	2.49	0.46
1:EA:1637:PRO:CB	1:EA:1647:ASN:HD21	2.29	0.46
2:EB:36:PRO:O	2:EB:39:GLN:HG3	2.16	0.46
2:EB:286:ARG:HG2	13:EM:27:PHE:CG	2.51	0.46
2:EB:359:LEU:HD23	2:EB:359:LEU:HA	1.58	0.46
2:EB:665:GLY:N	2:EB:668:GLU:OE1	2.48	0.46
3:EC:140:CYS:HB2	3:EC:196:LEU:HD13	1.97	0.46
7:EG:50:ALA:HA	7:EG:113:PHE:CE2	2.51	0.46
9:EI:13:CYS:HB3	9:EI:33:CYS:HB3	1.97	0.46
1:FA:892:LEU:HG	1:FA:893:ASP:N	2.31	0.46
1:FA:903:ILE:O	1:FA:907:VAL:HG23	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1104:TYR:CE2	1:FA:1119:LYS:HD2	2.51	0.46
1:FA:1196:PRO:C	1:FA:1198:THR:H	2.18	0.46
1:FA:1239:THR:HG23	1:FA:1520:VAL:HG13	1.96	0.46
1:FA:1512:PRO:HB3	1:FA:1517:ARG:HA	1.98	0.46
1:FA:1621:PHE:O	1:FA:1624:LYS:HB2	2.16	0.46
2:FB:54:GLU:HB3	2:FB:55:GLY:H	1.58	0.46
2:FB:302:LEU:HD11	2:FB:379:ARG:NH1	2.31	0.46
2:FB:571:ALA:HA	2:FB:572:PRO:HD3	1.75	0.46
2:FB:853:GLU:HB3	2:FB:879:PRO:HB3	1.98	0.46
2:FB:1086:PHE:O	2:FB:1089:GLN:N	2.49	0.46
9:FI:20:PRO:C	9:FI:22:ALA:H	2.19	0.46
1:AA:52:LEU:C	1:AA:54:LEU:H	2.18	0.46
1:AA:727:THR:OG1	1:AA:728:GLY:N	2.49	0.46
1:AA:1057:ILE:H	1:AA:1057:ILE:HD12	1.80	0.46
1:AA:1273:THR:HA	9:AI:48:VAL:HG22	1.98	0.46
2:AB:214:PRO:HB3	2:AB:377:MET:CE	2.46	0.46
2:AB:1198:TYR:H	2:AB:1198:TYR:HD2	1.61	0.46
3:AC:59:ILE:HG12	3:AC:60:ASP:H	1.79	0.46
3:AC:70:ILE:HG21	3:AC:317:SER:HA	1.99	0.46
3:AC:77:SER:OG	3:AC:78:VAL:N	2.49	0.46
3:AC:136:LEU:HD22	3:AC:167:LEU:HA	1.98	0.46
4:AD:22:ILE:HD12	7:AG:45:LEU:HA	1.98	0.46
7:AG:132:VAL:HG23	7:AG:232:THR:HB	1.96	0.46
10:AJ:18:TRP:CZ2	10:AJ:53:HIS:HD2	2.34	0.46
1:BA:1117:SER:C	1:BA:1119:LYS:H	2.19	0.46
1:BA:1246:VAL:HG22	1:BA:1250:GLN:NE2	2.30	0.46
1:BA:1264:SER:O	9:BI:56:PHE:HB3	2.16	0.46
2:BB:19:LEU:HD21	10:BJ:25:LEU:HB3	1.98	0.46
2:BB:219:ARG:HG2	2:BB:221:SER:HB3	1.98	0.46
2:BB:323:ARG:O	2:BB:327:LEU:HG	2.15	0.46
2:BB:768:GLY:HA3	2:BB:1032:TYR:CZ	2.51	0.46
2:BB:1007:TYR:CG	3:BC:281:ARG:HD3	2.51	0.46
3:BC:45:SER:HB3	3:BC:53:ASN:HB3	1.97	0.46
3:BC:84:TYR:HB3	12:BL:64:LEU:HD11	1.97	0.46
1:CA:11:ILE:CG2	2:CB:1198:TYR:HB2	2.45	0.46
1:CA:462:LYS:HD3	1:CA:469:LYS:HZ2	1.81	0.46
1:CA:470:HIS:NE2	7:CO:314:THR:C	2.70	0.46
1:CA:492:THR:HG23	1:CA:811:SER:OG	2.16	0.46
1:CA:1596:LEU:HD22	1:CA:1602:GLY:HA2	1.97	0.46
2:CB:381:LEU:O	2:CB:385:VAL:HG23	2.16	0.46
2:CB:642:LEU:HD22	2:CB:642:LEU:HA	1.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:CC:82:TYR:O	3:CC:207:HIS:N	2.47	0.46
3:CC:88:ASN:O	12:CL:60:ARG:NH1	2.46	0.46
7:CG:73:TYR:CD2	7:CG:238:THR:HB	2.51	0.46
11:CK:51:THR:O	11:CK:54:THR:OG1	2.32	0.46
14:CN:93:THR:HG22	14:CN:99:LEU:HD11	1.97	0.46
1:DA:472:MET:HB3	2:DB:1076:ARG:HD3	1.98	0.46
1:DA:753:ASN:ND2	1:DA:767:ASN:O	2.49	0.46
1:DA:826:PHE:H	2:DB:776:ILE:HD11	1.81	0.46
1:DA:1055:ILE:HD13	1:DA:1055:ILE:HA	1.83	0.46
2:DB:570:VAL:HG13	2:DB:596:VAL:HG13	1.97	0.46
2:DB:1073:GLU:CD	2:DB:1073:GLU:H	2.18	0.46
2:DB:1076:ARG:O	2:DB:1080:ILE:HG13	2.15	0.46
2:DB:1119:ARG:HD2	2:DB:1119:ARG:HA	1.52	0.46
2:DB:1178:ILE:O	2:DB:1178:ILE:HG13	2.15	0.46
3:DC:316:LYS:O	3:DC:320:ILE:N	2.43	0.46
9:DI:65:SER:OG	9:DI:66:VAL:N	2.48	0.46
1:EA:1262:LEU:O	1:EA:1265:GLU:HB2	2.16	0.46
2:EB:275:MET:SD	2:EB:330:LEU:HD21	2.56	0.46
2:EB:615:GLY:C	2:EB:617:THR:H	2.18	0.46
2:EB:626:ILE:N	2:EB:668:GLU:OE2	2.48	0.46
2:EB:660:LYS:HB3	2:EB:661:GLU:H	1.50	0.46
2:EB:699:ILE:HD13	2:EB:699:ILE:N	2.29	0.46
2:EB:888:ILE:HG13	12:EL:54:ARG:O	2.16	0.46
5:EE:40:GLU:HA	5:EE:43:LYS:HE3	1.98	0.46
5:EE:127:ILE:HD11	5:EE:132:ILE:CD1	2.46	0.46
7:EG:165:ASP:OD2	7:EG:220:SER:HA	2.15	0.46
14:EN:54:TRP:CZ2	14:EN:135:LYS:HD2	2.51	0.46
1:FA:480:ALA:HB2	2:FB:1046:VAL:HA	1.97	0.46
1:FA:1263:LEU:C	1:FA:1265:GLU:N	2.70	0.46
1:FA:1270:VAL:HB	9:FI:51:THR:CG2	2.46	0.46
1:FA:1271:ILE:HG22	9:FI:48:VAL:HG12	1.98	0.46
2:FB:468:GLY:O	2:FB:482:SER:HA	2.16	0.46
2:FB:558:VAL:HA	2:FB:561:ILE:HG13	1.97	0.46
2:FB:642:LEU:HD22	2:FB:642:LEU:HA	1.76	0.46
2:FB:975:HIS:NE2	2:FB:1003:ALA:HB2	2.31	0.46
9:FI:8:ILE:H	9:FI:16:LEU:CD1	2.29	0.46
1:AA:532:GLY:O	1:AA:580:HIS:N	2.25	0.45
1:AA:584:ARG:HD3	6:AF:116:ASP:HB2	1.98	0.45
1:AA:966:LEU:HD23	1:AA:969:PHE:CD2	2.51	0.45
1:AA:1168:ALA:O	1:AA:1171:GLN:N	2.49	0.45
1:AA:1325:LEU:HD13	1:AA:1325:LEU:HA	1.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:169:ARG:HD3	2:AB:169:ARG:HA	1.80	0.45
2:AB:280:LEU:HD12	2:AB:371:PHE:HD1	1.82	0.45
2:AB:716:MET:O	2:AB:719:CYS:HB2	2.16	0.45
2:AB:1026:ILE:CD1	2:AB:1028:VAL:HG13	2.46	0.45
3:AC:245:ARG:HD2	3:AC:245:ARG:N	2.31	0.45
10:AJ:60:PHE:O	10:AJ:63:TYR:N	2.47	0.45
1:BA:993:GLN:CD	2:BB:676:VAL:HG21	2.37	0.45
1:BA:1078:LYS:HA	1:BA:1078:LYS:HD2	1.69	0.45
1:BA:1251:ALA:O	1:BA:1253:THR:N	2.49	0.45
2:BB:280:LEU:HD12	2:BB:371:PHE:HD1	1.81	0.45
2:BB:347:LEU:HA	2:BB:347:LEU:HD13	1.70	0.45
2:BB:840:LEU:HD12	2:BB:857:PRO:HB2	1.98	0.45
9:BI:57:PRO:HA	9:BI:61:ARG:HG2	1.97	0.45
12:BL:38:LEU:HD12	12:BL:49:LYS:HD3	1.98	0.45
13:BM:42:LYS:O	14:BN:29:PHE:HA	2.16	0.45
1:CA:1640:ARG:O	1:CA:1644:GLY:N	2.40	0.45
1:CA:1659:LYS:HA	7:CG:104:LEU:HD23	1.98	0.45
2:CB:472:SER:OG	2:CB:473:GLN:N	2.47	0.45
2:CB:1060:VAL:HG22	2:CB:1061:LYS:N	2.31	0.45
3:CC:71:MET:HE3	3:CC:71:MET:HB3	1.91	0.45
8:CH:93:TYR:N	8:CH:93:TYR:CD1	2.84	0.45
11:CK:75:ALA:O	11:CK:79:VAL:HG23	2.16	0.45
14:CN:131:LEU:HG	14:CN:132:GLN:N	2.31	0.45
7:CO:280:PHE:HD1	7:CO:280:PHE:HA	1.72	0.45
1:DA:457:LYS:O	1:DA:459:ALA:N	2.49	0.45
1:DA:1026:GLN:HA	1:DA:1611:MET:CE	2.46	0.45
1:DA:1158:SER:HB3	1:DA:1159:ASP:H	1.56	0.45
1:DA:1240:LEU:HD23	1:DA:1541:ILE:HG23	1.98	0.45
10:DJ:16:ASP:C	10:DJ:18:TRP:H	2.19	0.45
1:EA:483:VAL:CG2	2:EB:1042:ASP:HA	2.45	0.45
1:EA:602:GLY:O	1:EA:653:THR:HG22	2.16	0.45
1:EA:695:TYR:HE1	1:EA:820:TYR:HA	1.80	0.45
1:EA:1263:LEU:HG	1:EA:1267:ILE:HD11	1.99	0.45
1:EA:1450:ILE:HG22	1:EA:1457:ILE:HG21	1.98	0.45
2:EB:359:LEU:HD22	2:EB:361:HIS:CE1	2.51	0.45
3:EC:85:PHE:HA	3:EC:204:LEU:HD13	1.98	0.45
8:EH:5:LEU:CD2	8:EH:135:LEU:HD23	2.43	0.45
1:FA:82:PRO:HG3	1:FA:393:SER:O	2.17	0.45
1:FA:123:ARG:HG3	1:FA:193:ILE:HD11	1.98	0.45
1:FA:460:LEU:O	1:FA:466:LEU:HB3	2.16	0.45
2:FB:264:TRP:NE1	2:FB:265:ARG:HG2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:379:ARG:CZ	2:FB:580:GLY:HA2	2.45	0.45
3:FC:188:ASP:O	3:FC:191:ILE:HG13	2.16	0.45
3:FC:235:ILE:H	3:FC:235:ILE:HG12	1.47	0.45
5:FE:112:TYR:CZ	5:FE:136:ASN:HB2	2.51	0.45
1:AA:126:GLN:NE2	1:AA:340:HIS:O	2.47	0.45
1:AA:484:ILE:HG23	1:AA:631:ASP:O	2.15	0.45
1:AA:678:VAL:HG22	1:AA:781:LEU:O	2.17	0.45
1:AA:1058:THR:C	1:AA:1060:GLU:H	2.18	0.45
1:AA:1626:VAL:HG11	2:AB:1194:ILE:HD13	1.98	0.45
2:AB:45:HIS:H	2:AB:45:HIS:CD2	2.32	0.45
2:AB:211:ARG:NH2	2:AB:243:GLN:OE1	2.38	0.45
2:AB:257:GLN:HG3	2:AB:316:ARG:HH22	1.81	0.45
2:AB:359:LEU:HD23	2:AB:359:LEU:HA	1.61	0.45
2:AB:476:LEU:HA	2:AB:476:LEU:HD23	1.57	0.45
3:AC:64:ALA:O	3:AC:67:PHE:HB2	2.16	0.45
7:AG:125:TRP:CZ2	7:AG:127:PRO:HG3	2.50	0.45
11:AK:51:THR:O	11:AK:54:THR:OG1	2.33	0.45
14:AN:55:LEU:C	14:AN:56:ILE:HG13	2.36	0.45
14:AN:87:TYR:HB3	14:AN:139:VAL:CG1	2.43	0.45
1:BA:709:ARG:C	1:BA:711:LYS:H	2.15	0.45
1:BA:727:THR:OG1	1:BA:728:GLY:N	2.49	0.45
1:BA:1291:VAL:HG12	1:BA:1292:ILE:H	1.82	0.45
2:BB:656:LEU:HG	2:BB:687:THR:O	2.15	0.45
2:BB:774:ALA:HA	2:BB:1028:VAL:CG1	2.47	0.45
2:BB:1047:ARG:NH1	2:BB:1050:GLY:H	2.13	0.45
7:BG:38:ILE:H	7:BG:38:ILE:HG13	1.27	0.45
7:BG:134:GLU:O	7:BG:149:ILE:HG23	2.16	0.45
7:BG:218:VAL:HA	7:BG:224:PRO:HA	1.98	0.45
1:CA:536:ILE:HG12	1:CA:577:VAL:HG22	1.97	0.45
1:CA:595:LEU:HD22	1:CA:595:LEU:HA	1.79	0.45
1:CA:1054:ALA:O	1:CA:1179:ILE:HG22	2.16	0.45
1:CA:1142:ASP:O	1:CA:1145:GLU:N	2.49	0.45
1:CA:1173:LYS:O	1:CA:1177:SER:OG	2.14	0.45
1:CA:1287:ALA:HA	1:CA:1478:ALA:CB	2.36	0.45
2:CB:38:LEU:H	2:CB:38:LEU:HD22	1.81	0.45
2:CB:301:PHE:CD1	2:CB:302:LEU:HD23	2.50	0.45
2:CB:468:GLY:O	2:CB:482:SER:HA	2.16	0.45
2:CB:476:LEU:HD23	2:CB:476:LEU:HA	1.52	0.45
2:CB:571:ALA:HA	2:CB:572:PRO:HD3	1.74	0.45
2:CB:627:GLY:O	2:CB:641:TYR:N	2.49	0.45
2:CB:834:LYS:C	2:CB:836:TRP:N	2.65	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:1178:ILE:HD12	2:CB:1182:LEU:HB3	1.98	0.45
3:CC:67:PHE:HE1	3:CC:318:VAL:HA	1.81	0.45
5:CE:143:ASN:O	5:CE:145:THR:N	2.50	0.45
7:CG:67:ASN:O	7:CG:70:VAL:HG23	2.16	0.45
11:CK:68:GLU:HG2	11:CK:72:LEU:HD23	1.98	0.45
11:CK:138:LYS:O	11:CK:142:MET:HB2	2.15	0.45
12:CL:61:THR:O	12:CL:63:ARG:N	2.49	0.45
1:DA:113:VAL:HG11	1:DA:181:LEU:HD23	1.98	0.45
1:DA:713:VAL:HG12	1:DA:714:THR:H	1.80	0.45
1:DA:1226:VAL:HG12	1:DA:1227:MET:HG2	1.98	0.45
2:DB:271:VAL:HB	2:DB:276:ILE:HD11	1.98	0.45
2:DB:290:ASP:O	2:DB:292:ILE:N	2.48	0.45
3:DC:41:GLU:O	3:DC:57:ILE:HD12	2.15	0.45
7:DG:140:GLN:HB3	7:DG:217:TRP:HD1	1.80	0.45
14:DN:58:PHE:N	14:DN:58:PHE:CD1	2.84	0.45
1:EA:618:TYR:O	1:EA:620:ASN:N	2.50	0.45
1:EA:1202:LEU:HD21	9:EI:101:LEU:CD2	2.46	0.45
1:EA:1220:PRO:O	1:EA:1223:ARG:HB2	2.16	0.45
2:EB:151:ASN:N	2:EB:151:ASN:OD1	2.48	0.45
2:EB:617:THR:HB	2:EB:620:LEU:HD23	1.98	0.45
2:EB:1058:GLN:H	2:EB:1058:GLN:HG3	1.51	0.45
3:EC:303:GLU:O	3:EC:304:SER:HB2	2.16	0.45
6:EF:119:ARG:HA	6:EF:122:MET:HG3	1.98	0.45
13:EM:16:GLN:HE21	13:EM:18:GLN:H	1.63	0.45
1:FA:379:GLU:HA	7:FO:292:HIS:NE2	2.31	0.45
1:FA:505:LEU:O	1:FA:581:ILE:HG22	2.17	0.45
1:FA:964:LYS:HE2	1:FA:964:LYS:HB3	1.63	0.45
1:FA:1637:PRO:CB	1:FA:1647:ASN:HD21	2.28	0.45
2:FB:161:LEU:HD11	2:FB:409:TYR:CE2	2.50	0.45
2:FB:326:VAL:O	2:FB:330:LEU:HG	2.15	0.45
2:FB:523:GLU:H	2:FB:523:GLU:HG2	1.39	0.45
2:FB:615:GLY:C	2:FB:617:THR:H	2.20	0.45
5:FE:64:PRO:HB3	5:FE:68:SER:HB2	1.97	0.45
6:FF:69:LEU:O	6:FF:72:LYS:HB2	2.17	0.45
8:FH:93:TYR:N	8:FH:93:TYR:CD1	2.84	0.45
1:AA:843:ARG:NE	1:AA:945:CYS:O	2.44	0.45
2:AB:834:LYS:C	2:AB:836:TRP:N	2.69	0.45
5:AE:159:ASP:O	5:AE:163:GLU:HG2	2.16	0.45
9:AI:13:CYS:HB3	9:AI:33:CYS:HB3	1.97	0.45
9:AI:33:CYS:HB2	13:AM:60:LEU:HD22	1.97	0.45
9:AI:99:LEU:HB2	9:AI:111:PHE:CZ	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:33:PRO:HG2	13:AM:57:ASN:ND2	2.31	0.45
1:BA:530:TRP:CZ2	1:BA:582:LYS:HA	2.49	0.45
1:BA:650:LEU:CD2	6:BF:87:LYS:HD3	2.46	0.45
1:BA:1092:GLU:O	1:BA:1095:LEU:N	2.46	0.45
2:BB:201:LYS:NZ	2:BB:466:SER:HA	2.31	0.45
2:BB:210:ARG:HH22	2:BB:625:GLU:CD	2.20	0.45
3:BC:59:ILE:HG12	3:BC:60:ASP:N	2.31	0.45
7:BG:18:LYS:O	7:BG:20:HIS:N	2.50	0.45
8:BH:46:LEU:HD23	8:BH:46:LEU:HA	1.78	0.45
9:BI:88:GLN:NE2	9:BI:117:CYS:SG	2.89	0.45
7:BO:265:SER:N	7:BO:268:GLU:OE2	2.49	0.45
1:CA:1220:PRO:O	1:CA:1223:ARG:HB2	2.16	0.45
1:CA:1270:VAL:HB	9:CI:51:THR:HG21	1.99	0.45
2:CB:501:ARG:HG3	2:CB:699:ILE:CD1	2.46	0.45
2:CB:895:PHE:O	2:CB:896:GLN:C	2.54	0.45
2:CB:913:ILE:HD13	2:CB:930:LYS:HG3	1.97	0.45
2:CB:960:ILE:H	2:CB:960:ILE:HG12	1.37	0.45
2:CB:970:LYS:HG2	2:CB:1000:LEU:HD21	1.98	0.45
3:CC:55:ASP:C	3:CC:56:LEU:HD23	2.36	0.45
3:CC:209:ILE:HG12	3:CC:210:LEU:O	2.16	0.45
3:CC:248:GLN:HG3	3:CC:256:ILE:O	2.16	0.45
13:CM:38:PHE:O	14:CN:118:SER:HA	2.17	0.45
1:DA:457:LYS:C	1:DA:459:ALA:N	2.70	0.45
1:DA:1245:ASP:OD2	1:DA:1245:ASP:N	2.47	0.45
1:DA:1272:VAL:HG23	9:DI:49:THR:O	2.15	0.45
1:DA:1342:PRO:HD3	2:DB:257:GLN:OE1	2.16	0.45
1:DA:1348:VAL:HG11	2:DB:225:ARG:NH2	2.31	0.45
2:DB:362:LEU:HB2	2:DB:370:LYS:HE2	1.98	0.45
2:DB:964:VAL:O	2:DB:966:SER:N	2.48	0.45
2:DB:1117:VAL:HG21	2:DB:1162:GLY:N	2.31	0.45
5:DE:15:ALA:HA	5:DE:140:LEU:O	2.17	0.45
5:DE:43:LYS:O	5:DE:47:CYS:HB2	2.17	0.45
8:DH:40:LEU:HD12	8:DH:41:ASP:N	2.30	0.45
1:EA:657:TYR:O	1:EA:665:PRO:HA	2.17	0.45
1:EA:952:LEU:HD11	2:EB:519:LYS:HD2	1.97	0.45
2:EB:417:ILE:O	2:EB:420:TYR:HB3	2.17	0.45
2:EB:1046:VAL:HG22	2:EB:1047:ARG:N	2.31	0.45
3:EC:218:LYS:NZ	12:EL:69:ALA:HB3	2.31	0.45
4:ED:25:THR:OG1	7:EG:42:PRO:HB2	2.16	0.45
5:EE:157:SER:OG	5:EE:160:GLU:HG3	2.16	0.45
8:EH:87:ARG:HE	8:EH:87:ARG:HB2	1.58	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:EM:10:ILE:HD12	14:EN:70:LEU:O	2.16	0.45
13:EM:36:THR:HG23	13:EM:57:ASN:ND2	2.32	0.45
1:FA:547:ILE:C	1:FA:549:MET:H	2.18	0.45
1:FA:1229:ALA:CB	1:FA:1597:ALA:HB2	2.46	0.45
1:FA:1256:LYS:HD3	1:FA:1305:GLU:O	2.16	0.45
1:FA:1549:VAL:HG11	1:FA:1561:THR:OG1	2.16	0.45
1:FA:1601:GLN:C	1:FA:1603:MET:N	2.69	0.45
2:FB:260:PHE:CD1	2:FB:260:PHE:C	2.90	0.45
2:FB:1082:HIS:HB2	2:FB:1084:THR:HG23	1.98	0.45
11:FK:58:GLY:C	11:FK:60:SER:N	2.68	0.45
1:AA:952:LEU:CD1	2:AB:519:LYS:HD2	2.47	0.45
2:AB:675:ALA:HB2	2:AB:686:HIS:CG	2.52	0.45
2:AB:1186:ASP:OD2	2:AB:1198:TYR:OH	2.24	0.45
5:AE:143:ASN:O	5:AE:145:THR:N	2.50	0.45
6:AF:97:ARG:HG3	6:AF:101:ILE:CD1	2.46	0.45
12:AL:33:GLU:HG3	12:AL:53:HIS:ND1	2.32	0.45
13:AM:9:GLU:HG2	14:AN:70:LEU:O	2.16	0.45
1:BA:835:LEU:HD22	1:BA:915:GLY:O	2.16	0.45
1:BA:934:LYS:HB3	2:BB:955:PRO:HG2	1.97	0.45
1:BA:1217:LEU:HD11	1:BA:1572:ARG:NE	2.32	0.45
1:BA:1294:MET:N	1:BA:1294:MET:SD	2.89	0.45
1:BA:1540:GLY:HA2	5:BE:148:GLU:CD	2.37	0.45
1:BA:1621:PHE:O	1:BA:1624:LYS:HB2	2.16	0.45
2:BB:215:MET:HE3	2:BB:394:PRO:HB3	1.96	0.45
2:BB:359:LEU:HD23	2:BB:359:LEU:HA	1.62	0.45
2:BB:374:LEU:O	2:BB:378:ILE:HG12	2.17	0.45
2:BB:852:VAL:HG22	2:BB:856:ASP:HB3	1.99	0.45
3:BC:54:PHE:CZ	3:BC:300:PHE:HB3	2.52	0.45
3:BC:230:LEU:HD12	3:BC:231:PRO:HD2	1.99	0.45
10:BJ:16:ASP:C	10:BJ:18:TRP:H	2.19	0.45
1:CA:1229:ALA:CB	1:CA:1597:ALA:HB2	2.47	0.45
1:CA:1546:VAL:HG21	1:CA:1595:TYR:CE2	2.52	0.45
2:CB:389:CYS:HB2	2:CB:635:GLY:O	2.16	0.45
2:CB:505:ARG:HG3	2:CB:541:LEU:HD23	1.98	0.45
2:CB:532:HIS:CG	2:CB:700:LEU:HD22	2.50	0.45
2:CB:741:LEU:HD23	2:CB:741:LEU:HA	1.79	0.45
2:CB:804:TYR:HE1	2:CB:883:GLU:OE2	1.99	0.45
2:CB:964:VAL:C	2:CB:966:SER:N	2.70	0.45
2:CB:1006:ASN:HB3	2:CB:1010:ASN:O	2.16	0.45
3:CC:209:ILE:HG12	3:CC:210:LEU:N	2.31	0.45
1:DA:597:LYS:HB2	2:DB:1082:HIS:NE2	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1621:PHE:O	1:DA:1624:LYS:HB2	2.16	0.45
2:DB:1141:LEU:CD1	7:DG:17:ILE:HG21	2.47	0.45
5:DE:22:MET:HA	5:DE:187:TYR:CZ	2.51	0.45
7:DG:58:LEU:HD23	7:DG:58:LEU:HA	1.64	0.45
8:DH:102:TYR:HE2	8:DH:116:TYR:C	2.20	0.45
1:EA:782:ASP:O	1:EA:785:GLN:N	2.33	0.45
1:EA:1175:MET:O	1:EA:1178:LEU:HG	2.17	0.45
1:EA:1195:GLU:O	1:EA:1198:THR:OG1	2.29	0.45
1:EA:1485:MET:O	1:EA:1489:VAL:HG23	2.15	0.45
2:EB:551:ILE:CD1	2:EB:649:MET:HA	2.47	0.45
2:EB:658:LEU:HB3	2:EB:659:ASP:H	1.50	0.45
2:EB:692:THR:HB	2:EB:693:PRO:HD2	1.98	0.45
3:EC:328:LEU:HD11	11:EK:65:ILE:HD11	1.97	0.45
5:EE:20:LYS:NZ	5:EE:37:LEU:HD22	2.30	0.45
6:EF:120:ILE:O	6:EF:123:LYS:N	2.50	0.45
6:EF:147:SER:HB3	6:EF:150:GLU:HG2	1.98	0.45
1:FA:247:GLY:O	1:FA:442:LYS:HG2	2.17	0.45
1:FA:727:THR:OG1	1:FA:729:LYS:N	2.45	0.45
1:FA:1026:GLN:HA	1:FA:1611:MET:CE	2.46	0.45
1:FA:1039:ARG:HB3	1:FA:1044:THR:O	2.16	0.45
1:FA:1237:GLN:HB2	1:FA:1544:ASN:HB2	1.98	0.45
2:FB:323:ARG:O	2:FB:327:LEU:HG	2.16	0.45
2:FB:349:VAL:O	2:FB:353:VAL:HG23	2.16	0.45
2:FB:1038:HIS:HE1	2:FB:1042:ASP:OD2	2.00	0.45
4:FD:14:THR:OG1	4:FD:16:LEU:HB2	2.16	0.45
4:FD:22:ILE:H	7:FG:76:LYS:NZ	2.14	0.45
7:FG:49:LEU:HG	7:FG:50:ALA:O	2.16	0.45
9:FI:72:LYS:HB2	9:FI:73:LYS:HE3	1.99	0.45
10:FJ:54:VAL:C	10:FJ:56:LEU:H	2.18	0.45
13:FM:36:THR:HG23	13:FM:57:ASN:ND2	2.31	0.45
1:AA:854:GLY:O	1:AA:974:THR:HB	2.17	0.45
1:AA:1006:LEU:HD22	9:AI:103:SER:HA	1.97	0.45
1:AA:1247:SER:OG	1:AA:1248:ASP:N	2.49	0.45
2:AB:304:ASP:O	2:AB:308:LEU:HG	2.16	0.45
2:AB:383:SER:HB2	2:AB:388:GLU:HB2	1.98	0.45
2:AB:811:LEU:HD13	2:AB:823:GLN:NE2	2.29	0.45
2:AB:1056:THR:HB	2:AB:1058:GLN:HG3	1.98	0.45
2:AB:1198:TYR:CD2	2:AB:1198:TYR:N	2.82	0.45
3:AC:216:HIS:ND1	3:AC:218:LYS:HB3	2.32	0.45
1:BA:1260:LYS:HA	1:BA:1499:ARG:O	2.17	0.45
2:BB:462:GLN:O	2:BB:466:SER:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:1017:ALA:O	3:BC:65:ASN:ND2	2.50	0.45
6:BF:98:ALA:HB2	6:BF:118:LEU:HD13	1.99	0.45
14:BN:82:ILE:HB	14:BN:87:TYR:CE1	2.51	0.45
1:CA:118:TYR:CD2	1:CA:223:PHE:HD1	2.35	0.45
1:CA:253:GLU:O	1:CA:312:SER:HA	2.17	0.45
1:CA:456:VAL:O	1:CA:459:ALA:HB3	2.17	0.45
1:CA:830:MET:HE1	2:CB:963:PHE:CD2	2.52	0.45
1:CA:893:ASP:OD2	1:CA:956:ARG:HB2	2.17	0.45
1:CA:1516:LYS:O	1:CA:1518:VAL:HB	2.17	0.45
1:CA:1555:VAL:CG1	5:CE:178:ILE:HD13	2.47	0.45
2:CB:412:ILE:O	2:CB:416:LYS:HG2	2.16	0.45
2:CB:463:TYR:HE1	2:CB:467:THR:HG21	1.80	0.45
2:CB:655:TYR:HD1	2:CB:688:HIS:HE2	1.65	0.45
2:CB:714:ARG:HD3	2:CB:714:ARG:HA	1.77	0.45
2:CB:843:ASP:HB2	2:CB:845:LEU:HD21	1.98	0.45
2:CB:898:LEU:HA	2:CB:898:LEU:HD13	1.68	0.45
2:CB:1116:SER:OG	2:CB:1159:TRP:HB2	2.16	0.45
3:CC:173:GLY:C	3:CC:175:GLN:H	2.19	0.45
5:CE:112:TYR:CE1	5:CE:136:ASN:HB2	2.52	0.45
14:CN:90:MET:HB2	14:CN:92:ASP:OD1	2.16	0.45
1:DA:892:LEU:O	1:DA:896:THR:OG1	2.35	0.45
1:DA:1039:ARG:NH2	5:DE:168:TYR:O	2.49	0.45
2:DB:151:ASN:OD1	2:DB:151:ASN:N	2.50	0.45
2:DB:262:PHE:O	2:DB:268:GLU:HG2	2.16	0.45
2:DB:301:PHE:CD1	2:DB:302:LEU:HD23	2.51	0.45
2:DB:626:ILE:N	2:DB:668:GLU:OE2	2.49	0.45
5:DE:64:PRO:HB3	5:DE:68:SER:HB2	1.97	0.45
1:EA:719:ILE:O	1:EA:724:PRO:HA	2.17	0.45
1:EA:1117:SER:O	1:EA:1117:SER:OG	2.29	0.45
1:EA:1229:ALA:CB	1:EA:1597:ALA:HB2	2.46	0.45
2:EB:72:VAL:HG11	2:EB:94:LYS:HE3	1.98	0.45
2:EB:277:LEU:HG	2:EB:374:LEU:HD21	1.99	0.45
2:EB:1026:ILE:HD11	2:EB:1028:VAL:CG1	2.46	0.45
3:EC:228:ARG:HD3	14:EN:173:THR:CG2	2.47	0.45
11:EK:76:LEU:O	11:EK:80:ILE:HG13	2.16	0.45
1:FA:572:THR:HA	7:FG:52:MET:SD	2.57	0.45
1:FA:1006:LEU:O	1:FA:1010:ALA:HB3	2.17	0.45
1:FA:1098:SER:OG	1:FA:1141:GLN:NE2	2.49	0.45
1:FA:1272:VAL:HG12	1:FA:1273:THR:N	2.32	0.45
1:FA:1580:ARG:CZ	5:FE:204:THR:HG23	2.46	0.45
2:FB:1053:ASN:HD22	2:FB:1054:SER:H	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:1117:VAL:HB	2:FB:1160:GLU:O	2.16	0.45
13:FM:59:ARG:HD2	13:FM:60:LEU:HD21	1.97	0.45
14:FN:55:LEU:O	14:FN:136:VAL:HA	2.17	0.45
7:FO:267:ALA:C	7:FO:269:SER:N	2.70	0.45
1:AA:82:PRO:HG3	1:AA:393:SER:O	2.16	0.45
1:AA:505:LEU:HD13	1:AA:637:PHE:HB2	1.99	0.45
1:AA:696:ILE:O	1:AA:700:ILE:HG13	2.17	0.45
1:AA:729:LYS:HE3	1:AA:779:GLY:O	2.17	0.45
1:AA:1344:ILE:H	1:AA:1344:ILE:CD1	2.25	0.45
1:AA:1463:ASP:HB2	1:AA:1469:TRP:CD1	2.51	0.45
8:AH:40:LEU:HD13	8:AH:123:MET:CE	2.46	0.45
13:AM:43:LYS:HE3	14:AN:27:ASP:O	2.15	0.45
14:AN:90:MET:O	14:AN:137:PHE:HB3	2.16	0.45
1:BA:862:THR:HA	9:BI:67:VAL:HG12	1.98	0.45
1:BA:1322:ILE:CG2	1:BA:1457:ILE:HD11	2.45	0.45
1:BA:1485:MET:O	1:BA:1489:VAL:HG23	2.17	0.45
1:BA:1555:VAL:HG13	1:BA:1556:GLU:N	2.30	0.45
2:BB:260:PHE:HD1	2:BB:261:ARG:N	2.15	0.45
2:BB:732:ALA:O	2:BB:736:ARG:HG3	2.16	0.45
6:BF:119:ARG:HA	6:BF:122:MET:HG3	1.99	0.45
1:CA:89:LEU:HD22	1:CA:89:LEU:HA	1.76	0.45
1:CA:223:PHE:CE2	1:CA:227:LEU:HD11	2.52	0.45
1:CA:507:TYR:HB2	1:CA:637:PHE:CZ	2.52	0.45
1:CA:522:ALA:O	1:CA:525:ASN:N	2.49	0.45
1:CA:631:ASP:OD1	1:CA:631:ASP:N	2.45	0.45
1:CA:1095:LEU:CD2	1:CA:1134:GLY:HA3	2.47	0.45
1:CA:1457:ILE:HA	1:CA:1474:LEU:HD22	1.97	0.45
2:CB:848:ILE:HD12	2:CB:885:VAL:CG2	2.46	0.45
5:CE:175:LEU:HD22	5:CE:175:LEU:HA	1.63	0.45
1:DA:869:PRO:HG2	1:DA:872:ASP:HB2	1.99	0.45
1:DA:1543:SER:OG	1:DA:1544:ASN:N	2.48	0.45
2:DB:526:GLY:CA	2:DB:696:ILE:HG22	2.46	0.45
2:DB:565:LEU:HD23	2:DB:565:LEU:HA	1.65	0.45
2:DB:687:THR:OG1	2:DB:688:HIS:ND1	2.49	0.45
2:DB:800:TYR:CD1	2:DB:910:THR:HG23	2.52	0.45
2:DB:847:TYR:O	2:DB:882:ILE:HD12	2.16	0.45
2:DB:1048:SER:OG	2:DB:1049:THR:N	2.47	0.45
3:DC:71:MET:HE3	3:DC:71:MET:HB3	1.93	0.45
5:DE:198:ILE:O	5:DE:199:ILE:HD13	2.17	0.45
12:DL:63:ARG:HH11	12:DL:63:ARG:HG3	1.81	0.45
1:EA:20:THR:HG23	1:EA:23:GLU:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:214:ASP:OD2	5:EE:177:ARG:NH2	2.50	0.45
1:EA:534:THR:OG1	1:EA:535:GLN:HG2	2.17	0.45
1:EA:731:ILE:O	1:EA:735:VAL:HG23	2.17	0.45
1:EA:816:LEU:HG	1:EA:817:PHE:N	2.30	0.45
1:EA:1251:ALA:O	1:EA:1253:THR:N	2.49	0.45
1:EA:1659:LYS:HA	7:EG:104:LEU:HD23	1.97	0.45
2:EB:260:PHE:CD1	2:EB:260:PHE:C	2.90	0.45
2:EB:460:LYS:O	2:EB:463:TYR:HB3	2.16	0.45
2:EB:751:ILE:HG23	2:EB:752:VAL:CG2	2.46	0.45
2:EB:1178:ILE:O	2:EB:1178:ILE:HG13	2.12	0.45
3:EC:310:PRO:O	3:EC:313:ILE:N	2.49	0.45
3:EC:329:LYS:CE	11:EK:122:LYS:HE2	2.47	0.45
2:FB:158:CYS:O	2:FB:457:ILE:N	2.49	0.45
2:FB:1093:LEU:HD12	2:FB:1093:LEU:HA	1.58	0.45
4:FD:36:VAL:CG2	7:FG:38:ILE:HD13	2.46	0.45
5:FE:177:ARG:CZ	5:FE:179:GLN:HE22	2.29	0.45
9:FI:23:VAL:HB	9:FI:39:LYS:HE3	1.98	0.45
9:FI:111:PHE:HA	9:FI:121:PHE:O	2.16	0.45
12:FL:63:ARG:HG3	12:FL:63:ARG:NH1	2.32	0.45
2:AB:164:MET:HE3	2:AB:194:PHE:CZ	2.52	0.45
2:AB:301:PHE:CD1	2:AB:302:LEU:HD23	2.51	0.45
2:AB:625:GLU:O	2:AB:642:LEU:HD13	2.17	0.45
2:AB:663:ILE:HD12	2:AB:663:ILE:HA	1.61	0.45
2:AB:744:LEU:HD11	2:AB:799:GLY:HA2	1.98	0.45
3:AC:203:SER:O	3:AC:204:LEU:HB3	2.16	0.45
8:AH:93:TYR:N	8:AH:93:TYR:CD1	2.85	0.45
14:AN:58:PHE:N	14:AN:58:PHE:CD1	2.84	0.45
1:BA:61:LEU:HG	1:BA:67:LEU:O	2.17	0.45
1:BA:713:VAL:HG23	1:BA:738:ASN:OD1	2.17	0.45
1:BA:773:ASP:OD2	1:BA:773:ASP:N	2.49	0.45
1:BA:1101:THR:O	1:BA:1105:ARG:HB2	2.15	0.45
2:BB:542:LEU:C	2:BB:543:ASN:HD22	2.19	0.45
2:BB:876:SER:C	2:BB:878:GLU:H	2.19	0.45
3:BC:85:PHE:HA	3:BC:204:LEU:HD13	1.99	0.45
8:BH:12:VAL:HB	8:BH:53:ASP:H	1.82	0.45
14:BN:26:PRO:HB2	14:BN:29:PHE:CE1	2.51	0.45
1:CA:1072:ASN:O	1:CA:1075:ALA:N	2.50	0.45
1:CA:1162:ASN:H	1:CA:1165:LYS:HD2	1.81	0.45
2:CB:70:GLU:HG2	2:CB:97:VAL:C	2.37	0.45
2:CB:203:ILE:CD1	2:CB:203:ILE:H	2.24	0.45
2:CB:210:ARG:HB2	2:CB:399:HIS:C	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:840:LEU:HD11	2:CB:858:ILE:C	2.36	0.45
8:CH:80:ARG:HB2	11:CK:108:TYR:HE1	1.82	0.45
1:DA:585:ASP:OD1	1:DA:644:ARG:NH1	2.49	0.45
1:DA:1189:ALA:O	1:DA:1193:VAL:HG23	2.16	0.45
1:DA:1202:LEU:HD11	9:DI:101:LEU:CD1	2.44	0.45
1:DA:1224:GLU:HB3	1:DA:1233:ILE:HG22	1.98	0.45
1:DA:1484:LEU:CD2	2:DB:304:ASP:HB3	2.47	0.45
2:DB:526:GLY:N	2:DB:696:ILE:HG22	2.32	0.45
2:DB:1093:LEU:HD11	2:DB:1179:PRO:HB3	1.99	0.45
2:DB:1189:LEU:HA	2:DB:1189:LEU:HD22	1.61	0.45
3:DC:81:GLU:HA	3:DC:81:GLU:OE1	2.17	0.45
3:DC:137:ASN:CG	3:DC:203:SER:HB2	2.37	0.45
3:DC:172:GLN:H	3:DC:175:GLN:HB2	1.81	0.45
9:DI:11:LEU:H	9:DI:11:LEU:HD12	1.82	0.45
10:DJ:60:PHE:O	10:DJ:63:TYR:N	2.46	0.45
13:DM:10:ILE:HD13	14:DN:70:LEU:HG	1.99	0.45
1:EA:32:ILE:HG21	1:EA:49:LEU:HD23	1.98	0.45
1:EA:253:GLU:O	1:EA:312:SER:HA	2.17	0.45
1:EA:484:ILE:HG23	1:EA:631:ASP:O	2.16	0.45
1:EA:621:THR:HG23	1:EA:626:ALA:HB3	1.99	0.45
1:EA:935:GLY:N	9:EI:125:ASN:O	2.50	0.45
2:EB:107:PRO:HG2	2:EB:133:TYR:CZ	2.51	0.45
2:EB:161:LEU:HD11	2:EB:409:TYR:CE2	2.51	0.45
2:EB:425:ILE:HG22	2:EB:426:ALA:N	2.32	0.45
2:EB:547:HIS:NE2	2:EB:694:THR:O	2.50	0.45
2:EB:548:LYS:HG2	2:EB:550:ARG:NH2	2.31	0.45
2:EB:627:GLY:H	2:EB:642:LEU:HD22	1.82	0.45
3:EC:42:VAL:HG22	3:EC:56:LEU:HD22	1.99	0.45
3:EC:285:PHE:C	3:EC:287:ASP:H	2.20	0.45
9:EI:8:ILE:H	9:EI:16:LEU:CD1	2.29	0.45
14:EN:110:LEU:HB3	14:EN:119:LEU:HB3	1.98	0.45
7:EO:272:ILE:HG12	7:EO:273:VAL:N	2.31	0.45
1:FA:191:MET:SD	1:FA:191:MET:C	2.95	0.45
1:FA:1342:PRO:HG3	2:FB:259:THR:HG22	1.98	0.45
3:FC:59:ILE:HG12	3:FC:60:ASP:N	2.31	0.45
3:FC:136:LEU:HD13	3:FC:166:ASP:O	2.17	0.45
3:FC:218:LYS:HZ1	12:FL:69:ALA:HB3	1.82	0.45
6:FF:97:ARG:HG2	6:FF:130:ILE:HD13	1.98	0.45
6:FF:102:SER:HB3	6:FF:117:PRO:HB3	1.99	0.45
9:FI:20:PRO:O	9:FI:22:ALA:N	2.49	0.45
9:FI:57:PRO:HA	9:FI:61:ARG:HG2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:674:ILE:HG12	1:AA:783:LYS:HB2	1.98	0.45
2:AB:54:GLU:HB3	2:AB:55:GLY:H	1.58	0.45
2:AB:376:PHE:HB2	2:AB:592:ILE:HD11	1.99	0.45
2:AB:434:ARG:HD3	7:BG:226:ASP:O	2.17	0.45
2:AB:717:TYR:HB2	9:AI:104:ALA:HB1	1.99	0.45
2:AB:748:GLN:HA	10:AJ:54:VAL:HG23	1.99	0.45
3:AC:142:ARG:O	3:AC:144:PRO:HD3	2.17	0.45
3:AC:228:ARG:HH12	14:AN:172:ALA:HB1	1.82	0.45
4:AD:82:LEU:HD22	7:AG:67:ASN:ND2	2.30	0.45
4:AD:90:LYS:HA	4:AD:93:GLN:HG2	1.99	0.45
11:AK:117:LEU:O	11:AK:121:LEU:HB2	2.17	0.45
11:AK:128:CYS:O	11:AK:131:VAL:HB	2.17	0.45
1:BA:50:TYR:OH	1:BA:370:PRO:HG3	2.16	0.45
1:BA:754:LYS:HB2	1:BA:782:ASP:OD2	2.17	0.45
2:BB:994:ASP:N	2:BB:994:ASP:OD1	2.50	0.45
2:BB:1201:GLU:HG3	2:BB:1203:LYS:H	1.81	0.45
7:BG:46:TYR:CD1	7:BG:117:TRP:CD1	3.04	0.45
13:BM:65:TYR:O	13:BM:97:VAL:N	2.45	0.45
1:CA:369:LEU:HA	1:CA:370:PRO:HD3	1.86	0.45
1:CA:478:TYR:O	2:CB:1091:ARG:NH2	2.50	0.45
1:CA:1039:ARG:NH2	5:CE:168:TYR:O	2.49	0.45
1:CA:1239:THR:HG23	1:CA:1520:VAL:HG13	1.98	0.45
1:CA:1322:ILE:CG2	1:CA:1457:ILE:HD11	2.46	0.45
1:CA:1501:ILE:O	1:CA:1504:ILE:N	2.49	0.45
1:CA:1637:PRO:HG3	1:CA:1647:ASN:HD21	1.82	0.45
2:CB:71:LYS:HB3	2:CB:425:ILE:CD1	2.47	0.45
2:CB:350:GLY:O	2:CB:353:VAL:HB	2.17	0.45
2:CB:376:PHE:HB2	2:CB:592:ILE:HD11	1.98	0.45
2:CB:772:VAL:O	2:CB:946:ASP:HB2	2.17	0.45
3:CC:59:ILE:HD11	3:CC:63:ILE:HB	1.98	0.45
3:CC:100:ARG:HH12	3:CC:193:LEU:CA	2.30	0.45
5:CE:32:GLN:O	5:CE:35:VAL:HB	2.15	0.45
5:CE:182:ASP:OD2	5:CE:184:VAL:HG23	2.16	0.45
8:CH:33:GLN:HB2	8:CH:36:CYS:CB	2.46	0.45
8:CH:105:GLU:OE2	8:CH:115:TYR:OH	2.25	0.45
14:CN:72:VAL:HG22	14:CN:137:PHE:HE1	1.82	0.45
1:DA:495:ILE:HB	1:DA:603:HIS:ND1	2.31	0.45
1:DA:855:ARG:NH1	1:DA:868:THR:O	2.46	0.45
1:DA:1122:PRO:HG3	5:DE:207:ARG:HB3	1.98	0.45
1:DA:1637:PRO:CB	1:DA:1647:ASN:HD21	2.30	0.45
2:DB:417:ILE:O	2:DB:420:TYR:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:792:SER:HB2	2:DB:933:THR:HB	1.97	0.45
2:DB:858:ILE:HD11	2:DB:872:LYS:HB3	1.98	0.45
7:DG:134:GLU:O	7:DG:149:ILE:HG23	2.16	0.45
14:DN:155:VAL:HG13	14:DN:156:PRO:HD2	1.98	0.45
1:EA:597:LYS:HB2	2:EB:1082:HIS:CE1	2.51	0.45
1:EA:1446:ARG:HG2	1:EA:1450:ILE:HD13	1.99	0.45
1:EA:1612:LYS:HD3	1:EA:1621:PHE:CD1	2.52	0.45
2:EB:570:VAL:HG13	2:EB:596:VAL:HG13	1.98	0.45
2:EB:622:ILE:H	2:EB:622:ILE:HD12	1.81	0.45
3:EC:173:GLY:C	3:EC:175:GLN:H	2.20	0.45
4:ED:40:LEU:HD22	4:ED:93:GLN:HB3	1.99	0.45
7:EG:95:LEU:HD23	7:EG:95:LEU:HA	1.73	0.45
9:EI:2:SER:O	9:EI:9:PHE:N	2.41	0.45
13:EM:85:LYS:C	13:EM:87:SER:H	2.19	0.45
1:FA:505:LEU:HD13	1:FA:637:PHE:HB2	1.99	0.45
1:FA:826:PHE:H	2:FB:776:ILE:HD11	1.82	0.45
1:FA:1217:LEU:HD11	1:FA:1572:ARG:CD	2.46	0.45
2:FB:201:LYS:NZ	2:FB:466:SER:HA	2.32	0.45
2:FB:203:ILE:CD1	2:FB:203:ILE:H	2.26	0.45
2:FB:733:LEU:HD22	10:FJ:60:PHE:HE2	1.82	0.45
2:FB:892:SER:OG	2:FB:893:ASN:N	2.50	0.45
2:FB:949:ILE:HG13	2:FB:950:ASN:N	2.31	0.45
2:FB:1150:LYS:N	2:FB:1150:LYS:HD3	2.32	0.45
2:FB:1195:ARG:NH2	2:FB:1197:ARG:HD2	2.31	0.45
3:FC:97:LEU:HD23	3:FC:97:LEU:HA	1.57	0.45
8:FH:108:SER:O	8:FH:110:ASP:N	2.49	0.45
14:FN:38:PHE:HA	14:FN:39:PRO:HD2	1.50	0.45
1:AA:124:LEU:HD12	1:AA:133:SER:HA	1.98	0.45
1:AA:697:TYR:CE1	1:AA:702:PRO:HD3	2.52	0.45
1:AA:864:LEU:HD11	1:AA:875:LEU:HA	1.99	0.45
1:AA:957:VAL:HG13	1:AA:958:PRO:HD2	1.99	0.45
1:AA:1239:THR:HG23	1:AA:1520:VAL:HG13	1.98	0.45
2:AB:47:GLY:HA2	2:AB:50:ASN:HD22	1.82	0.45
2:AB:168:ASN:OD1	2:AB:169:ARG:HG2	2.17	0.45
2:AB:617:THR:HB	2:AB:620:LEU:HD23	1.98	0.45
2:AB:662:ASP:O	2:AB:663:ILE:HB	2.17	0.45
2:AB:874:TYR:CZ	2:AB:876:SER:HB2	2.52	0.45
3:AC:172:GLN:HB2	3:AC:175:GLN:NE2	2.32	0.45
5:AE:144:ILE:HD13	5:AE:144:ILE:N	2.32	0.45
6:AF:97:ARG:HA	6:AF:100:GLN:HG3	1.99	0.45
7:AG:46:TYR:CD1	7:AG:117:TRP:CD1	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:AM:70:SER:O	13:AM:74:ASN:HB2	2.17	0.45
1:BA:536:ILE:HG12	1:BA:577:VAL:HG22	1.98	0.45
1:BA:1021:ARG:HH12	1:BA:1615:TYR:HA	1.82	0.45
1:BA:1317:ILE:HA	1:BA:1321:PHE:HB3	1.98	0.45
1:BA:1484:LEU:HD21	2:BB:304:ASP:HB3	1.98	0.45
1:BA:1545:ASP:CG	1:BA:1546:VAL:N	2.71	0.45
1:BA:1655:ASP:HB2	6:BF:135:ARG:HB3	1.99	0.45
2:BB:202:LEU:HD13	2:BB:500:PHE:CE2	2.52	0.45
2:BB:863:ASP:OD2	2:BB:866:LEU:HD12	2.17	0.45
6:BF:100:GLN:HG2	7:BG:112:PRO:CB	2.47	0.45
11:BK:80:ILE:HG22	11:BK:86:VAL:HG21	1.98	0.45
13:BM:23:VAL:HG13	14:BN:108:THR:O	2.17	0.45
1:CA:127:TYR:CE2	1:CA:193:ILE:HD13	2.52	0.45
1:CA:1102:LEU:HD12	1:CA:1102:LEU:HA	1.65	0.45
1:CA:1102:LEU:HD12	1:CA:1105:ARG:HE	1.82	0.45
1:CA:1217:LEU:HD11	1:CA:1572:ARG:CD	2.47	0.45
2:CB:203:ILE:H	2:CB:203:ILE:HD12	1.82	0.45
2:CB:655:TYR:HD1	2:CB:688:HIS:NE2	2.14	0.45
2:CB:832:TRP:HE3	2:CB:834:LYS:H	1.65	0.45
2:CB:834:LYS:HB2	1:DA:553:GLN:NE2	2.31	0.45
2:CB:858:ILE:HD11	2:CB:872:LYS:HB3	1.98	0.45
8:CH:42:ILE:HG23	8:CH:95:TYR:CE2	2.52	0.45
1:DA:18:ILE:HA	2:DB:1193:GLY:O	2.15	0.45
1:DA:385:LEU:O	1:DA:389:VAL:HG23	2.17	0.45
1:DA:499:PRO:HG3	1:DA:609:PRO:HA	1.98	0.45
1:DA:595:LEU:HD22	1:DA:595:LEU:HA	1.72	0.45
1:DA:937:ASN:O	1:DA:940:VAL:HB	2.17	0.45
1:DA:956:ARG:HB3	1:DA:957:VAL:H	1.51	0.45
1:DA:1018:TYR:HD2	1:DA:1227:MET:HE1	1.82	0.45
1:DA:1490:GLU:HG2	9:DI:55:ALA:HB1	1.98	0.45
1:DA:1649:VAL:HG11	2:DB:1080:ILE:O	2.17	0.45
2:DB:460:LYS:O	2:DB:463:TYR:HB3	2.17	0.45
2:DB:825:PHE:HZ	2:DB:899:GLN:O	1.99	0.45
2:DB:840:LEU:HD11	2:DB:858:ILE:C	2.38	0.45
3:DC:45:SER:HB3	3:DC:53:ASN:HB3	1.99	0.45
4:DD:14:THR:OG1	4:DD:16:LEU:HB2	2.17	0.45
5:DE:157:SER:OG	5:DE:160:GLU:HG3	2.16	0.45
7:DG:100:THR:O	7:DG:102:GLU:N	2.49	0.45
8:DH:138:GLU:HB2	8:DH:139:ASN:H	1.59	0.45
9:DI:57:PRO:HA	9:DI:61:ARG:HG2	1.99	0.45
13:DM:16:GLN:HB3	13:DM:91:TYR:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:DM:85:LYS:C	13:DM:87:SER:H	2.20	0.45
14:DN:110:LEU:CD2	14:DN:121:ILE:HA	2.47	0.45
1:EA:62:CYS:HB2	1:EA:72:CYS:SG	2.57	0.45
1:EA:223:PHE:CE2	1:EA:227:LEU:HD11	2.52	0.45
1:EA:426:ALA:O	1:EA:430:ILE:HG22	2.17	0.45
1:EA:825:ALA:HB1	2:EB:776:ILE:CD1	2.34	0.45
1:EA:1637:PRO:CG	1:EA:1647:ASN:HD21	2.28	0.45
2:EB:156:ARG:HD2	2:EB:156:ARG:HA	1.50	0.45
2:EB:347:LEU:HD13	2:EB:347:LEU:HA	1.70	0.45
2:EB:703:LEU:HD21	2:EB:757:TYR:HD2	1.82	0.45
2:EB:874:TYR:CZ	2:EB:876:SER:HB2	2.52	0.45
2:EB:949:ILE:HG13	2:EB:950:ASN:N	2.31	0.45
2:EB:960:ILE:O	2:EB:963:PHE:N	2.50	0.45
2:EB:1053:ASN:ND2	2:EB:1054:SER:N	2.63	0.45
2:EB:1160:GLU:HG2	2:EB:1166:LYS:HG2	1.98	0.45
5:EE:148:GLU:H	5:EE:148:GLU:HG3	1.53	0.45
6:EF:60:GLN:O	6:EF:64:ILE:HG13	2.16	0.45
7:EG:26:ASN:ND2	7:EG:37:CYS:SG	2.90	0.45
1:FA:713:VAL:HB	1:FA:738:ASN:HD21	1.82	0.45
1:FA:967:PRO:O	2:FB:674:ILE:N	2.50	0.45
1:FA:1010:ALA:HB1	2:FB:536:GLY:HA2	1.99	0.45
1:FA:1262:LEU:HD12	1:FA:1264:SER:OG	2.17	0.45
1:FA:1310:LYS:O	1:FA:1313:LEU:HB3	2.17	0.45
2:FB:72:VAL:HG11	2:FB:94:LYS:HE3	1.98	0.45
2:FB:90:TYR:CG	2:FB:91:LEU:N	2.81	0.45
2:FB:95:LEU:HD22	2:FB:440:PHE:CD1	2.52	0.45
2:FB:1044:PHE:O	2:FB:1045:GLN:HB3	2.17	0.45
5:FE:71:LYS:NZ	5:FE:160:GLU:OE2	2.40	0.45
6:FF:76:LYS:HG3	6:FF:79:ARG:CZ	2.47	0.45
1:AA:10:GLU:CG	1:AA:1645:LYS:HE3	2.47	0.45
1:AA:497:VAL:HG23	1:AA:606:ARG:O	2.17	0.45
1:AA:778:CYS:SG	1:AA:779:GLY:N	2.90	0.45
1:AA:858:ALA:O	1:AA:862:THR:OG1	2.33	0.45
1:AA:939:ASN:O	1:AA:942:GLN:HB2	2.17	0.45
1:AA:1139:ASN:HB2	5:AE:205:SER:HA	1.98	0.45
1:AA:1546:VAL:HG21	1:AA:1595:TYR:CE2	2.52	0.45
3:AC:209:ILE:HG12	3:AC:210:LEU:O	2.16	0.45
8:AH:38:LEU:HD13	8:AH:125:LEU:HB2	1.99	0.45
12:AL:31:CYS:HA	12:AL:56:LEU:HD23	1.99	0.45
13:AM:44:LYS:HD2	13:AM:44:LYS:HA	1.67	0.45
1:BA:103:LEU:HD11	1:BA:243:PHE:HZ	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:324:LEU:HD23	1:BA:324:LEU:HA	1.83	0.45
1:BA:473:GLY:HA2	2:BB:1071:VAL:O	2.17	0.45
1:BA:1555:VAL:HG13	1:BA:1556:GLU:H	1.82	0.45
2:BB:789:ILE:HD13	2:BB:789:ILE:HA	1.84	0.45
3:BC:131:THR:HG22	3:BC:132:ILE:H	1.82	0.45
3:BC:167:LEU:HD21	3:BC:193:LEU:HD21	1.98	0.45
5:BE:120:ALA:O	5:BE:123:LEU:HB2	2.17	0.45
14:BN:55:LEU:HB3	14:BN:136:VAL:CG2	2.47	0.45
14:BN:66:LYS:HB2	8:DH:77:ARG:HH12	1.82	0.45
1:CA:514:TYR:OH	6:CF:102:SER:HA	2.17	0.45
1:CA:646:GLU:OE1	2:CB:1086:PHE:HB2	2.16	0.45
1:CA:729:LYS:HE3	1:CA:779:GLY:O	2.17	0.45
1:CA:1242:ILE:CD1	1:CA:1517:ARG:HB3	2.46	0.45
1:CA:1317:ILE:HA	1:CA:1321:PHE:HB3	1.99	0.45
1:CA:1604:GLU:HA	1:CA:1612:LYS:HE2	1.99	0.45
2:CB:483:GLY:C	2:CB:484:TYR:HD2	2.20	0.45
2:CB:848:ILE:HG13	12:CL:59:ALA:O	2.17	0.45
2:CB:1056:THR:HB	2:CB:1058:GLN:HG3	1.99	0.45
3:CC:81:GLU:OE1	3:CC:81:GLU:HA	2.16	0.45
4:CD:22:ILE:HD12	7:CG:45:LEU:HA	1.99	0.45
5:CE:56:LYS:HG3	5:CE:84:ASP:OD2	2.17	0.45
7:CG:46:TYR:HD1	7:CG:117:TRP:HD1	1.65	0.45
13:CM:65:TYR:O	13:CM:97:VAL:N	2.45	0.45
14:CN:26:PRO:HB2	14:CN:29:PHE:CE1	2.52	0.45
1:DA:407:GLN:H	1:DA:407:GLN:HG2	1.53	0.45
1:DA:659:THR:HG22	1:DA:666:VAL:HG22	1.99	0.45
1:DA:1086:ILE:HD13	1:DA:1086:ILE:HA	1.84	0.45
1:DA:1102:LEU:HD12	1:DA:1105:ARG:HE	1.81	0.45
1:DA:1317:ILE:HA	1:DA:1321:PHE:HB3	1.98	0.45
2:DB:800:TYR:CD2	2:DB:800:TYR:C	2.90	0.45
3:DC:188:ASP:O	3:DC:191:ILE:HG13	2.17	0.45
4:DD:19:PRO:HB3	7:DG:46:TYR:O	2.17	0.45
5:DE:55:ARG:O	5:DE:58:MET:HB2	2.17	0.45
7:DO:276:LYS:O	7:DO:279:VAL:N	2.50	0.45
2:EB:1052:VAL:HG12	2:EB:1059:PRO:HG3	1.99	0.45
2:EB:1119:ARG:HD2	2:EB:1119:ARG:HA	1.58	0.45
3:EC:277:ARG:NH1	3:EC:291:LEU:HD13	2.32	0.45
9:EI:109:THR:HG21	9:EI:122:ARG:CZ	2.47	0.45
13:EM:51:PHE:O	13:EM:66:THR:HG23	2.17	0.45
1:FA:11:ILE:HD12	1:FA:11:ILE:O	2.17	0.45
1:FA:82:PRO:HD3	1:FA:393:SER:OG	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:615:ARG:NH2	2:FB:928:SER:O	2.50	0.45
1:FA:1640:ARG:O	1:FA:1643:VAL:N	2.50	0.45
2:FB:140:LYS:HE2	2:FB:153:PHE:CD2	2.52	0.45
2:FB:346:ASP:OD1	13:FM:113:ILE:HG23	2.16	0.45
2:FB:548:LYS:HG2	2:FB:550:ARG:NH2	2.31	0.45
2:FB:675:ALA:HB2	2:FB:686:HIS:CG	2.52	0.45
3:FC:68:ARG:O	3:FC:70:ILE:N	2.50	0.45
4:FD:19:PRO:HG3	7:FG:47:VAL:CG1	2.47	0.45
5:FE:139:ALA:O	5:FE:141:VAL:N	2.50	0.45
6:FF:67:LYS:O	6:FF:71:GLU:HG3	2.17	0.45
6:FF:123:LYS:O	6:FF:126:ALA:HB3	2.17	0.45
7:FG:80:VAL:O	7:FG:124:VAL:HG13	2.17	0.45
7:FG:168:PHE:HD1	7:FG:217:TRP:CE2	2.35	0.45
14:FN:113:SER:OG	14:FN:114:GLU:N	2.50	0.45
1:AA:596:HIS:CD2	1:AA:596:HIS:N	2.83	0.44
1:AA:829:GLY:HA2	2:AB:1027:TYR:CD2	2.52	0.44
1:AA:1162:ASN:O	1:AA:1165:LYS:HB2	2.17	0.44
2:AB:548:LYS:HG2	2:AB:550:ARG:NH2	2.32	0.44
2:AB:708:ASP:OD1	2:AB:708:ASP:N	2.50	0.44
2:AB:728:THR:HG21	2:AB:765:PHE:HA	1.98	0.44
2:AB:825:PHE:HZ	2:AB:899:GLN:O	1.99	0.44
2:AB:1110:ILE:HD13	2:AB:1111:LEU:HD23	1.99	0.44
8:AH:50:ALA:O	8:AH:53:ASP:HB2	2.17	0.44
8:AH:101:ALA:HB2	8:AH:116:TYR:HE1	1.82	0.44
1:BA:674:ILE:HG22	1:BA:675:SER:N	2.32	0.44
1:BA:729:LYS:HE3	1:BA:779:GLY:O	2.17	0.44
1:BA:821:ILE:CD1	2:BB:777:SER:HB2	2.47	0.44
1:BA:1031:HIS:HB2	1:BA:1182:GLY:O	2.17	0.44
1:BA:1440:ASN:O	1:BA:1444:ARG:HB3	2.16	0.44
2:BB:555:GLN:NE2	2:BB:644:GLY:O	2.50	0.44
2:BB:902:SER:OG	2:BB:903:ILE:N	2.50	0.44
2:BB:979:GLN:OE1	2:BB:979:GLN:HA	2.17	0.44
3:BC:86:PHE:O	3:BC:87:ASN:HB2	2.17	0.44
3:BC:237:GLN:NE2	3:BC:288:LYS:HE2	2.32	0.44
5:BE:64:PRO:HB3	5:BE:68:SER:CB	2.48	0.44
5:BE:72:PHE:CZ	5:BE:155:ARG:HG2	2.52	0.44
9:BI:11:LEU:H	9:BI:11:LEU:HD12	1.82	0.44
1:CA:138:GLU:O	1:CA:139:ILE:HD13	2.18	0.44
1:CA:505:LEU:O	1:CA:581:ILE:HG22	2.17	0.44
1:CA:722:PRO:HD2	8:CH:46:LEU:HD13	1.98	0.44
1:CA:920:PHE:CG	1:CA:921:PRO:HA	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1081:ASN:ND2	1:CA:1084:ALA:HB2	2.33	0.44
2:CB:878:GLU:HA	2:CB:879:PRO:HD2	1.82	0.44
2:CB:916:LYS:HZ3	2:CB:924:LYS:HE2	1.81	0.44
2:CB:1112:THR:OG1	2:CB:1128:CYS:SG	2.75	0.44
3:CC:188:ASP:O	3:CC:191:ILE:HG13	2.17	0.44
6:CF:129:LYS:HD3	6:CF:129:LYS:HA	1.69	0.44
10:CJ:18:TRP:CZ2	10:CJ:53:HIS:HD2	2.34	0.44
10:CJ:41:LEU:HD22	10:CJ:46:CYS:HB3	1.98	0.44
11:CK:119:LYS:O	11:CK:123:ASP:HB2	2.17	0.44
1:DA:669:LEU:HA	1:DA:669:LEU:HD23	1.66	0.44
1:DA:1073:TYR:HD2	1:DA:1074:TYR:CE2	2.34	0.44
1:DA:1095:LEU:CD2	1:DA:1134:GLY:HA3	2.47	0.44
1:DA:1617:THR:O	1:DA:1617:THR:OG1	2.34	0.44
2:DB:501:ARG:HG3	2:DB:699:ILE:CD1	2.47	0.44
2:DB:696:ILE:HD12	2:DB:697:LEU:HG	2.00	0.44
2:DB:728:THR:HG21	2:DB:765:PHE:HA	1.98	0.44
2:DB:837:LEU:HD22	2:DB:837:LEU:HA	1.52	0.44
2:DB:895:PHE:O	2:DB:896:GLN:C	2.55	0.44
2:DB:1018:THR:HB	2:DB:1020:GLU:OE1	2.18	0.44
7:DG:91:ASP:OD2	7:DG:103:LYS:HG2	2.17	0.44
8:DH:100:THR:O	8:DH:116:TYR:HA	2.16	0.44
1:EA:197:LEU:HD21	1:EA:203:THR:O	2.17	0.44
1:EA:1189:ALA:O	1:EA:1193:VAL:HG23	2.17	0.44
1:EA:1321:PHE:HD1	1:EA:1496:SER:OG	2.00	0.44
1:EA:1608:SER:OG	1:EA:1636:SER:OG	2.35	0.44
2:EB:834:LYS:HD3	2:EB:835:GLU:OE1	2.17	0.44
2:EB:891:GLU:O	2:EB:893:ASN:N	2.50	0.44
5:EE:198:ILE:O	5:EE:199:ILE:HD13	2.16	0.44
6:EF:106:PRO:HG2	7:EG:55:GLU:HG2	1.99	0.44
12:EL:63:ARG:HG2	12:EL:64:LEU:N	2.29	0.44
1:FA:335:LEU:O	1:FA:339:PHE:HD1	2.00	0.44
1:FA:379:GLU:OE2	7:FO:289:LYS:HG3	2.17	0.44
1:FA:1073:TYR:HD2	1:FA:1074:TYR:CE2	2.34	0.44
2:FB:206:LEU:HD23	2:FB:206:LEU:HA	1.84	0.44
2:FB:999:GLN:NE2	14:FN:166:LEU:HD21	2.32	0.44
2:FB:1011:GLU:HA	2:FB:1012:PRO:HD3	1.87	0.44
3:FC:41:GLU:O	3:FC:57:ILE:HD12	2.17	0.44
3:FC:86:PHE:O	3:FC:87:ASN:HB2	2.17	0.44
13:FM:65:TYR:O	13:FM:97:VAL:N	2.42	0.44
14:FN:71:PRO:HD2	14:FN:89:ILE:HD11	1.98	0.44
2:AB:194:PHE:O	2:AB:200:GLU:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:210:ARG:HH22	2:AB:625:GLU:CD	2.20	0.44
2:AB:887:LEU:O	2:AB:888:ILE:HD12	2.17	0.44
3:AC:97:LEU:HD23	3:AC:97:LEU:HA	1.57	0.44
7:AG:38:ILE:H	7:AG:38:ILE:HG13	1.31	0.44
7:AG:39:VAL:HB	7:AG:126:GLN:HE21	1.82	0.44
7:AG:158:LYS:O	7:AG:162:ILE:HG13	2.17	0.44
13:AM:80:LEU:HD22	14:AN:51:GLN:OE1	2.17	0.44
1:BA:2:ASP:HB3	1:BA:5:LYS:HD3	1.99	0.44
1:BA:477:ASN:OD1	2:BB:1049:THR:HG23	2.16	0.44
1:BA:832:ASP:OD2	1:BA:924:SER:OG	2.20	0.44
1:BA:1058:THR:C	1:BA:1060:GLU:H	2.20	0.44
1:BA:1262:LEU:HD12	1:BA:1264:SER:HG	1.82	0.44
2:BB:472:SER:OG	2:BB:473:GLN:N	2.50	0.44
2:BB:662:ASP:O	2:BB:663:ILE:HB	2.17	0.44
3:BC:203:SER:O	3:BC:204:LEU:HB3	2.17	0.44
5:BE:76:GLY:H	5:BE:106:GLN:HG2	1.83	0.44
8:BH:33:GLN:HG3	8:BH:131:ASN:HD21	1.82	0.44
10:BJ:43:ARG:NH1	10:BJ:46:CYS:SG	2.90	0.44
1:CA:1012:LYS:HE3	2:CB:515:THR:HG23	1.99	0.44
1:CA:1457:ILE:HA	1:CA:1474:LEU:CD2	2.47	0.44
2:CB:59:GLY:O	2:CB:61:LEU:N	2.50	0.44
2:CB:94:LYS:HG2	2:CB:147:ASN:H	1.82	0.44
2:CB:372:ARG:HA	2:CB:375:LEU:HD12	1.99	0.44
2:CB:1047:ARG:NH2	2:CB:1059:PRO:HB3	2.32	0.44
2:CB:1053:ASN:HD22	2:CB:1054:SER:H	1.64	0.44
3:CC:134:LEU:HD23	3:CC:169:PHE:HA	1.99	0.44
9:CI:20:PRO:C	9:CI:22:ALA:H	2.20	0.44
10:CJ:54:VAL:O	10:CJ:56:LEU:N	2.38	0.44
14:CN:171:PHE:CE1	14:CN:180:PHE:HE2	2.34	0.44
1:DA:9:SER:OG	4:DD:20:VAL:HG21	2.18	0.44
1:DA:363:PRO:HB3	2:DB:1187:SER:OG	2.17	0.44
1:DA:854:GLY:O	1:DA:974:THR:HB	2.17	0.44
1:DA:1325:LEU:HD22	1:DA:1492:ILE:HG21	1.97	0.44
2:DB:14:ALA:HB2	2:DB:980:ASP:CB	2.46	0.44
2:DB:304:ASP:O	2:DB:308:LEU:HG	2.17	0.44
2:DB:970:LYS:HE3	2:DB:1029:GLY:HA2	1.99	0.44
1:EA:50:TYR:OH	1:EA:370:PRO:HG3	2.17	0.44
1:EA:545:SER:C	1:EA:547:ILE:H	2.20	0.44
1:EA:1566:ILE:HG13	1:EA:1566:ILE:H	1.15	0.44
1:EA:1590:THR:OG1	5:EE:212:ARG:NH2	2.50	0.44
14:EN:82:ILE:HB	14:EN:87:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:49:LEU:HD23	1:FA:49:LEU:HA	1.81	0.44
1:FA:597:LYS:HB2	2:FB:1082:HIS:CE1	2.52	0.44
1:FA:1045:LEU:O	5:FE:176:PRO:HG3	2.16	0.44
2:FB:95:LEU:HD21	2:FB:143:TRP:CZ2	2.52	0.44
2:FB:242:ASP:OD2	2:FB:414:LYS:NZ	2.28	0.44
2:FB:1119:ARG:HD2	2:FB:1119:ARG:HA	1.61	0.44
3:FC:215:ASP:OD2	12:FL:70:ARG:NH2	2.49	0.44
3:FC:312:GLU:O	3:FC:315:PHE:N	2.51	0.44
5:FE:178:ILE:HD11	5:FE:182:ASP:HB3	1.99	0.44
10:FJ:45:CYS:HA	10:FJ:48:ARG:NH1	2.32	0.44
1:AA:703:GLU:CD	1:AA:703:GLU:H	2.19	0.44
1:AA:772:LYS:HE3	1:AA:772:LYS:HB3	1.86	0.44
1:AA:1105:ARG:NH1	1:AA:1138:GLU:OE1	2.47	0.44
1:AA:1238:MET:HG3	1:AA:1524:VAL:HG22	1.98	0.44
1:AA:1348:VAL:HG13	2:AB:268:GLU:O	2.16	0.44
1:AA:1477:ALA:O	1:AA:1480:THR:OG1	2.33	0.44
1:AA:1585:ILE:H	1:AA:1585:ILE:HG12	1.14	0.44
2:AB:36:PRO:O	2:AB:39:GLN:HG3	2.17	0.44
2:AB:104:ILE:HD12	2:AB:169:ARG:HG3	1.98	0.44
2:AB:1178:ILE:HB	2:AB:1182:LEU:HD23	2.00	0.44
3:AC:83:VAL:HG22	3:AC:206:ALA:HB1	1.99	0.44
3:AC:131:THR:HG22	3:AC:132:ILE:H	1.82	0.44
6:AF:60:GLN:O	6:AF:64:ILE:HG13	2.17	0.44
7:AG:105:ILE:HG12	7:AG:116:THR:CB	2.43	0.44
8:AH:97:MET:HB3	8:AH:118:PHE:CD1	2.53	0.44
12:AL:30:ILE:HD12	12:AL:59:ALA:HB2	1.99	0.44
14:AN:97:SER:OG	14:AN:98:SER:N	2.49	0.44
2:BB:413:LEU:HD13	2:BB:413:LEU:HA	1.72	0.44
2:BB:642:LEU:HD22	2:BB:642:LEU:HA	1.76	0.44
3:BC:100:ARG:HH12	3:BC:193:LEU:CA	2.29	0.44
8:BH:12:VAL:HG12	8:BH:51:ALA:HA	1.99	0.44
8:BH:102:TYR:HE2	8:BH:116:TYR:C	2.21	0.44
1:CA:41:LEU:HB3	1:CA:43:HIS:CE1	2.53	0.44
1:CA:349:LEU:HD12	1:CA:351:LYS:HE3	1.98	0.44
1:CA:975:ASP:CG	1:CA:976:ALA:N	2.71	0.44
1:CA:1028:GLU:HA	1:CA:1187:ILE:CG1	2.41	0.44
1:CA:1247:SER:OG	1:CA:1248:ASP:N	2.50	0.44
2:CB:38:LEU:HD21	2:CB:760:TYR:O	2.16	0.44
2:CB:169:ARG:HD3	2:CB:169:ARG:HA	1.78	0.44
2:CB:462:GLN:O	2:CB:466:SER:N	2.51	0.44
2:CB:470:LEU:HD22	2:CB:484:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:744:LEU:HD12	2:CB:800:TYR:O	2.16	0.44
2:CB:931:TRP:HA	2:CB:932:PRO:HD3	1.87	0.44
2:CB:1052:VAL:HG22	7:CO:307:GLU:O	2.16	0.44
7:CG:66:LEU:HB3	7:CG:84:TYR:CE2	2.52	0.44
9:CI:109:THR:HG21	9:CI:122:ARG:NH1	2.32	0.44
14:CN:107:MET:N	14:CN:107:MET:SD	2.88	0.44
1:DA:369:LEU:HA	1:DA:370:PRO:HD3	1.84	0.44
1:DA:1138:GLU:O	1:DA:1141:GLN:HB3	2.17	0.44
2:DB:971:ALA:O	2:DB:973:ALA:N	2.49	0.44
2:DB:1046:VAL:HG22	2:DB:1047:ARG:N	2.32	0.44
2:DB:1053:ASN:ND2	2:DB:1054:SER:N	2.64	0.44
4:DD:88:GLN:NE2	4:DD:91:ARG:HH21	2.15	0.44
5:DE:47:CYS:SG	5:DE:53:PRO:HA	2.57	0.44
9:DI:101:LEU:CD1	9:DI:122:ARG:HH22	2.30	0.44
11:DK:45:GLU:H	11:DK:45:GLU:HG3	1.38	0.44
13:DM:23:VAL:HG13	14:DN:108:THR:O	2.17	0.44
1:EA:663:GLY:O	1:EA:790:LYS:HE3	2.17	0.44
1:EA:939:ASN:O	1:EA:942:GLN:HB2	2.17	0.44
2:EB:76:GLY:C	2:EB:77:LYS:HG2	2.37	0.44
2:EB:768:GLY:HA3	2:EB:1032:TYR:CZ	2.52	0.44
2:EB:944:GLN:HA	2:EB:945:PRO:HD3	1.69	0.44
3:EC:316:LYS:O	3:EC:320:ILE:N	2.42	0.44
5:EE:177:ARG:NH1	5:EE:179:GLN:HE22	2.14	0.44
9:EI:19:ASN:OD1	9:EI:20:PRO:HD2	2.18	0.44
10:EJ:21:TYR:CZ	10:EJ:25:LEU:HD11	2.52	0.44
13:EM:21:VAL:HB	14:EN:109:LEU:HD11	1.99	0.44
13:EM:30:PHE:CE1	13:EM:62:TYR:HE2	2.34	0.44
13:EM:70:SER:O	13:EM:74:ASN:HB2	2.17	0.44
1:FA:475:ARG:HB3	1:FA:475:ARG:HH11	1.82	0.44
1:FA:1291:VAL:HG22	1:FA:1473:LYS:CD	2.47	0.44
1:FA:1540:GLY:O	1:FA:1542:THR:N	2.48	0.44
1:FA:1579:PHE:HA	1:FA:1582:LEU:HG	1.98	0.44
2:FB:277:LEU:HG	2:FB:374:LEU:HD21	1.99	0.44
2:FB:1077:ASP:O	2:FB:1080:ILE:HB	2.18	0.44
3:FC:61:THR:HA	3:FC:298:PHE:CZ	2.52	0.44
4:FD:93:GLN:HG3	4:FD:94:ARG:N	2.31	0.44
11:FK:80:ILE:HG22	11:FK:86:VAL:HG21	1.98	0.44
13:FM:14:SER:O	13:FM:90:LEU:N	2.50	0.44
1:AA:247:GLY:O	1:AA:442:LYS:HG2	2.18	0.44
1:AA:395:LEU:HD21	7:AO:280:PHE:CD2	2.52	0.44
1:AA:830:MET:HE2	2:AB:967:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:899:LYS:O	1:AA:903:ILE:HG12	2.17	0.44
1:AA:947:LEU:HB2	1:AA:982:VAL:HG21	1.98	0.44
2:AB:140:LYS:HE2	2:AB:153:PHE:CD2	2.51	0.44
2:AB:219:ARG:HG2	2:AB:221:SER:HB3	1.99	0.44
2:AB:611:TRP:C	2:AB:620:LEU:HD21	2.37	0.44
2:AB:678:PRO:HB2	2:AB:679:GLN:NE2	2.32	0.44
2:AB:1107:CYS:O	2:AB:1197:ARG:HG3	2.17	0.44
2:AB:1123:ILE:HD12	2:AB:1124:SER:H	1.82	0.44
3:AC:253:PRO:C	3:AC:255:VAL:H	2.19	0.44
14:AN:54:TRP:CZ2	14:AN:135:LYS:HD2	2.52	0.44
2:BB:393:ASN:ND2	2:BB:395:ASP:HB2	2.33	0.44
2:BB:572:PRO:O	2:BB:576:THR:OG1	2.17	0.44
4:BD:88:GLN:NE2	4:BD:91:ARG:HH21	2.16	0.44
7:BG:46:TYR:HD1	7:BG:117:TRP:HD1	1.65	0.44
9:BI:8:ILE:H	9:BI:16:LEU:CD1	2.30	0.44
1:CA:892:LEU:HD11	1:CA:956:ARG:NH1	2.32	0.44
1:CA:1291:VAL:HA	1:CA:1473:LYS:HB2	2.00	0.44
2:CB:460:LYS:O	2:CB:463:TYR:HB3	2.17	0.44
2:CB:903:ILE:HD13	2:CB:905:TYR:HE1	1.81	0.44
1:DA:813:LEU:O	1:DA:816:LEU:N	2.51	0.44
2:DB:463:TYR:HE1	2:DB:467:THR:HG21	1.82	0.44
2:DB:559:SER:C	2:DB:561:ILE:H	2.20	0.44
2:DB:989:ASP:HB3	2:DB:990:ASP:H	1.62	0.44
3:DC:132:ILE:HA	3:DC:132:ILE:HD13	1.77	0.44
3:DC:233:ILE:HD13	3:DC:233:ILE:HA	1.78	0.44
13:DM:65:TYR:O	13:DM:97:VAL:N	2.44	0.44
1:EA:689:ARG:HD2	8:EH:81:PRO:HG3	1.99	0.44
1:EA:952:LEU:HD22	1:EA:952:LEU:HA	1.86	0.44
1:EA:1195:GLU:HB3	1:EA:1196:PRO:HD3	1.99	0.44
1:EA:1202:LEU:HD11	9:EI:101:LEU:HD21	1.98	0.44
1:EA:1484:LEU:HG	2:EB:308:LEU:HD11	1.98	0.44
1:EA:1555:VAL:HG13	1:EA:1556:GLU:N	2.32	0.44
2:EB:38:LEU:HD21	2:EB:760:TYR:O	2.17	0.44
2:EB:137:LEU:HD23	2:EB:161:LEU:HD23	2.00	0.44
2:EB:392:ASP:HB3	2:EB:399:HIS:NE2	2.32	0.44
2:EB:1060:VAL:HG22	2:EB:1061:LYS:N	2.32	0.44
2:EB:1110:ILE:HD13	2:EB:1111:LEU:CD2	2.47	0.44
3:EC:216:HIS:ND1	3:EC:218:LYS:HB3	2.31	0.44
6:EF:102:SER:HB3	6:EF:117:PRO:HB3	1.98	0.44
1:FA:223:PHE:CE2	1:FA:227:LEU:HD11	2.51	0.44
1:FA:379:GLU:HA	7:FO:292:HIS:CD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:597:LYS:HB2	2:FB:1082:HIS:NE2	2.33	0.44
1:FA:1060:GLU:O	1:FA:1061:SER:C	2.55	0.44
1:FA:1195:GLU:HB3	1:FA:1196:PRO:HD3	1.99	0.44
2:FB:378:ILE:H	2:FB:378:ILE:HG12	1.62	0.44
2:FB:378:ILE:O	2:FB:381:LEU:HB3	2.16	0.44
2:FB:848:ILE:CG1	12:FL:60:ARG:HA	2.47	0.44
2:FB:1104:CYS:SG	2:FB:1106:GLU:HB2	2.57	0.44
3:FC:135:SER:O	3:FC:168:LYS:HG3	2.18	0.44
3:FC:210:LEU:H	3:FC:210:LEU:HD12	1.81	0.44
6:FF:153:VAL:O	6:FF:154:ASP:HB2	2.18	0.44
7:FG:43:ILE:H	7:FG:43:ILE:HG13	1.67	0.44
7:FG:134:GLU:O	7:FG:149:ILE:HG23	2.17	0.44
1:AA:90:PHE:CE1	1:AA:1623:THR:HG23	2.53	0.44
1:AA:476:VAL:HG23	2:AB:1091:ARG:HH21	1.82	0.44
1:AA:646:GLU:OE1	2:AB:1084:THR:HB	2.17	0.44
1:AA:1317:ILE:HA	1:AA:1321:PHE:HB3	1.98	0.44
2:AB:744:LEU:HD12	2:AB:800:TYR:O	2.16	0.44
3:AC:85:PHE:HA	3:AC:204:LEU:HD13	1.99	0.44
3:AC:285:PHE:C	3:AC:287:ASP:H	2.19	0.44
4:AD:93:GLN:HG3	4:AD:94:ARG:N	2.31	0.44
2:BB:45:HIS:H	2:BB:45:HIS:CD2	2.34	0.44
2:BB:315:LYS:HG3	2:BB:316:ARG:N	2.31	0.44
2:BB:792:SER:HB2	2:BB:933:THR:HB	1.99	0.44
4:BD:89:LEU:O	4:BD:92:ILE:N	2.47	0.44
10:BJ:33:GLY:O	10:BJ:47:ARG:NH2	2.50	0.44
11:BK:59:THR:HA	11:BK:107:THR:HG23	2.00	0.44
13:BM:76:TYR:CE1	14:BN:57:LYS:HG3	2.53	0.44
7:BO:276:LYS:C	7:BO:278:ILE:N	2.70	0.44
7:BO:284:VAL:O	7:BO:288:ASN:HB2	2.17	0.44
1:CA:16:PHE:CD1	1:CA:16:PHE:N	2.85	0.44
1:CA:416:ARG:O	1:CA:419:ILE:HB	2.18	0.44
1:CA:783:LYS:HE3	1:CA:932:GLY:HA3	1.99	0.44
1:CA:1238:MET:SD	1:CA:1524:VAL:HA	2.57	0.44
2:CB:373:MET:O	2:CB:376:PHE:HB3	2.18	0.44
2:CB:651:ARG:O	2:CB:663:ILE:HD12	2.17	0.44
1:DA:497:VAL:HB	1:DA:607:VAL:HA	1.99	0.44
1:DA:1637:PRO:HG3	1:DA:1647:ASN:HD21	1.81	0.44
2:DB:59:GLY:O	2:DB:61:LEU:N	2.51	0.44
2:DB:140:LYS:HE2	2:DB:153:PHE:HD2	1.83	0.44
2:DB:205:MET:HB2	2:DB:502:MET:O	2.17	0.44
2:DB:215:MET:O	2:DB:234:ILE:HD13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:529:CYS:SG	2:DB:530:PRO:HD2	2.56	0.44
2:DB:848:ILE:HD12	2:DB:885:VAL:CG2	2.47	0.44
2:DB:858:ILE:HG12	2:DB:859:CYS:N	2.33	0.44
2:DB:893:ASN:ND2	2:DB:895:PHE:CD1	2.86	0.44
2:DB:1180:PHE:O	2:DB:1182:LEU:N	2.50	0.44
3:DC:277:ARG:NH1	3:DC:291:LEU:HD13	2.33	0.44
4:DD:22:ILE:H	7:DG:76:LYS:NZ	2.16	0.44
7:DG:97:LYS:H	7:DG:97:LYS:HG3	1.59	0.44
7:DG:218:VAL:HA	7:DG:224:PRO:HA	1.99	0.44
13:DM:16:GLN:HB3	13:DM:92:LYS:H	1.82	0.44
1:EA:76:GLN:NE2	2:EB:1111:LEU:HD12	2.32	0.44
1:EA:425:ASN:OD1	7:EO:273:VAL:N	2.49	0.44
1:EA:949:GLN:HA	1:EA:981:TYR:HA	1.98	0.44
1:EA:1105:ARG:HH12	1:EA:1138:GLU:CD	2.19	0.44
1:EA:1168:ALA:O	1:EA:1171:GLN:N	2.51	0.44
1:EA:1321:PHE:CD2	1:EA:1321:PHE:C	2.90	0.44
1:EA:1597:ALA:O	1:EA:1602:GLY:HA3	2.18	0.44
2:EB:184:LYS:HE2	2:EB:735:HIS:CD2	2.52	0.44
2:EB:555:GLN:HE21	2:EB:556:SER:N	2.15	0.44
2:EB:717:TYR:HB2	9:EI:104:ALA:HB1	2.00	0.44
2:EB:858:ILE:HD13	2:EB:873:THR:O	2.18	0.44
4:ED:92:ILE:HG23	7:EG:150:HIS:O	2.18	0.44
8:EH:62:SER:HA	8:EH:141:TYR:CD1	2.52	0.44
8:EH:124:ARG:NH1	8:EH:126:GLU:OE1	2.50	0.44
9:EI:101:LEU:CD1	9:EI:122:ARG:HH22	2.30	0.44
1:FA:96:ILE:HG23	1:FA:228:LEU:HD21	1.98	0.44
1:FA:382:GLN:O	1:FA:386:LEU:HG	2.18	0.44
1:FA:1325:LEU:HD22	1:FA:1492:ILE:HG21	1.99	0.44
1:FA:1490:GLU:O	1:FA:1493:CYS:HB2	2.18	0.44
2:FB:848:ILE:HD11	12:FL:58:LYS:HG2	1.99	0.44
3:FC:218:LYS:HZ2	12:FL:69:ALA:HB3	1.83	0.44
7:FG:18:LYS:O	7:FG:20:HIS:N	2.50	0.44
11:FK:59:THR:HA	11:FK:107:THR:HG23	1.98	0.44
14:FN:26:PRO:HB2	14:FN:29:PHE:CE1	2.52	0.44
1:AA:429:THR:HG21	7:AO:274:SER:HA	1.99	0.44
1:AA:674:ILE:HG22	1:AA:675:SER:N	2.33	0.44
1:AA:1094:ALA:HB1	1:AA:1135:SER:HB2	2.00	0.44
1:AA:1460:TYR:HA	1:AA:1472:PHE:HB3	2.00	0.44
1:AA:1584:LEU:HD13	1:AA:1584:LEU:HA	1.86	0.44
2:AB:212:ASN:OD1	2:AB:239:VAL:HG13	2.17	0.44
2:AB:215:MET:O	2:AB:234:ILE:HD13	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:526:GLY:N	2:AB:696:ILE:HG22	2.32	0.44
2:AB:778:TYR:CE2	2:AB:937:PRO:HD3	2.53	0.44
2:AB:832:TRP:HE3	2:AB:834:LYS:H	1.65	0.44
2:AB:848:ILE:HG13	12:AL:59:ALA:O	2.18	0.44
2:AB:994:ASP:N	2:AB:994:ASP:OD1	2.51	0.44
13:AM:10:ILE:HD13	14:AN:70:LEU:HG	2.00	0.44
1:BA:1062:HIS:HD2	1:BA:1068:PHE:CD1	2.35	0.44
1:BA:1440:ASN:C	1:BA:1442:VAL:H	2.21	0.44
1:BA:1441:LYS:HA	1:BA:1444:ARG:HD2	1.99	0.44
2:BB:312:GLY:O	2:BB:316:ARG:HB2	2.17	0.44
2:BB:526:GLY:N	2:BB:696:ILE:HG22	2.33	0.44
3:BC:83:VAL:HG22	3:BC:206:ALA:HB1	1.99	0.44
3:BC:121:PRO:O	3:BC:125:LYS:HB2	2.18	0.44
7:BG:60:GLY:O	7:BG:64:GLN:HB2	2.17	0.44
1:CA:76:GLN:NE2	2:CB:1111:LEU:HD12	2.29	0.44
1:CA:81:LEU:C	1:CA:83:VAL:H	2.20	0.44
1:CA:896:THR:HG21	1:CA:956:ARG:NH1	2.31	0.44
2:CB:45:HIS:CD2	2:CB:45:HIS:H	2.33	0.44
2:CB:379:ARG:CZ	2:CB:580:GLY:HA2	2.48	0.44
2:CB:548:LYS:HA	2:CB:550:ARG:NH1	2.32	0.44
2:CB:829:ASN:OD1	2:CB:829:ASN:N	2.50	0.44
2:CB:854:GLU:HG3	2:CB:875:HIS:HA	1.99	0.44
2:CB:887:LEU:HD13	12:CL:56:LEU:O	2.17	0.44
2:CB:972:GLY:O	2:CB:976:GLY:N	2.49	0.44
2:CB:1052:VAL:CG2	7:CO:308:ILE:HD13	2.47	0.44
6:CF:100:GLN:HG2	7:CG:112:PRO:HB3	2.00	0.44
10:CJ:45:CYS:O	10:CJ:49:MET:HG2	2.18	0.44
14:CN:157:ARG:HG2	14:CN:158:LYS:O	2.18	0.44
1:DA:93:GLN:HG3	1:DA:1627:LEU:HD13	1.98	0.44
1:DA:335:LEU:O	1:DA:339:PHE:HD1	2.00	0.44
1:DA:773:ASP:OD2	1:DA:773:ASP:N	2.50	0.44
1:DA:1018:TYR:OH	1:DA:1615:TYR:HE1	2.01	0.44
1:DA:1078:LYS:HD2	1:DA:1078:LYS:HA	1.73	0.44
1:DA:1272:VAL:C	9:DI:48:VAL:HG13	2.38	0.44
1:DA:1440:ASN:OD1	1:DA:1440:ASN:N	2.50	0.44
1:DA:1446:ARG:HH22	1:DA:1462:PHE:H	1.65	0.44
2:DB:273:VAL:HA	2:DB:276:ILE:HD13	1.98	0.44
2:DB:902:SER:O	2:DB:903:ILE:HG23	2.17	0.44
2:DB:954:PHE:N	2:DB:955:PRO:HD2	2.33	0.44
3:DC:37:LYS:HD2	11:DK:130:VAL:HG22	2.00	0.44
3:DC:227:TYR:CD1	3:DC:298:PHE:HD2	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:DD:94:ARG:HD2	4:DD:99:LEU:HD13	1.99	0.44
5:DE:80:VAL:HG13	5:DE:109:ILE:HB	1.99	0.44
8:DH:124:ARG:NH1	8:DH:126:GLU:OE1	2.51	0.44
11:DK:77:ARG:HG3	11:DK:78:TYR:N	2.32	0.44
11:DK:78:TYR:OH	11:DK:82:LYS:NZ	2.38	0.44
11:DK:80:ILE:HG22	11:DK:86:VAL:HG21	2.00	0.44
12:DL:63:ARG:HG3	12:DL:63:ARG:NH1	2.32	0.44
13:DM:23:VAL:HB	13:DM:95:VAL:HG22	2.00	0.44
13:DM:67:ASP:OD2	13:DM:69:SER:OG	2.33	0.44
1:EA:510:PRO:HG2	6:EF:102:SER:OG	2.18	0.44
1:EA:646:GLU:OE1	2:EB:1086:PHE:HB2	2.17	0.44
1:EA:1139:ASN:HB2	5:EE:205:SER:HA	1.99	0.44
2:EB:38:LEU:HD22	2:EB:38:LEU:N	2.32	0.44
2:EB:101:GLN:O	2:EB:139:LEU:HD22	2.18	0.44
2:EB:262:PHE:O	2:EB:268:GLU:HG2	2.18	0.44
2:EB:296:ASP:C	2:EB:298:LYS:H	2.19	0.44
2:EB:476:LEU:HD23	2:EB:476:LEU:HA	1.56	0.44
6:EF:141:GLY:O	6:EF:143:PHE:HD2	2.00	0.44
1:FA:113:VAL:HG11	1:FA:181:LEU:HD23	2.00	0.44
1:FA:507:TYR:OH	1:FA:641:GLU:N	2.51	0.44
1:FA:569:SER:OG	1:FA:570:THR:HG23	2.18	0.44
1:FA:644:ARG:HH21	6:FF:118:LEU:HD23	1.82	0.44
1:FA:752:LYS:HA	1:FA:769:VAL:HG23	1.99	0.44
1:FA:899:LYS:O	1:FA:903:ILE:HG12	2.18	0.44
1:FA:1018:TYR:HD2	1:FA:1227:MET:HE1	1.83	0.44
1:FA:1124:LEU:HD23	1:FA:1124:LEU:HA	1.62	0.44
1:FA:1200:MET:HG2	1:FA:1573:TYR:CD2	2.52	0.44
1:FA:1440:ASN:O	1:FA:1444:ARG:HB3	2.17	0.44
1:FA:1457:ILE:HA	1:FA:1474:LEU:HD22	2.00	0.44
1:FA:1474:LEU:HD22	1:FA:1474:LEU:HA	1.65	0.44
2:FB:101:GLN:O	2:FB:139:LEU:HD22	2.18	0.44
2:FB:106:LYS:HB3	2:FB:171:HIS:CE1	2.52	0.44
2:FB:132:SER:HA	2:FB:195:ILE:O	2.17	0.44
2:FB:480:GLN:HG2	2:FB:484:TYR:OH	2.18	0.44
2:FB:874:TYR:CZ	2:FB:876:SER:HB2	2.52	0.44
2:FB:1020:GLU:HG3	3:FC:61:THR:OG1	2.18	0.44
2:FB:1110:ILE:HD13	2:FB:1111:LEU:HD23	1.99	0.44
6:FF:86:THR:HG23	6:FF:89:GLU:OE1	2.18	0.44
7:FG:57:PRO:O	7:FG:61:VAL:HG23	2.18	0.44
8:FH:33:GLN:HG3	8:FH:131:ASN:HD21	1.82	0.44
8:FH:40:LEU:HD13	8:FH:123:MET:CE	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:FJ:56:LEU:O	10:FJ:59:LYS:HB2	2.17	0.44
11:FK:45:GLU:H	11:FK:45:GLU:HG3	1.42	0.44
1:AA:4:SER:HB2	1:AA:573:LEU:CD2	2.48	0.44
1:AA:692:TYR:O	1:AA:696:ILE:HG12	2.18	0.44
1:AA:852:ASP:OD1	1:AA:855:ARG:NE	2.51	0.44
1:AA:856:GLU:H	1:AA:856:GLU:HG3	1.56	0.44
1:AA:1559:ARG:HD2	1:AA:1587:ASP:OD1	2.18	0.44
1:AA:1662:ASN:HB3	7:AG:57:PRO:CD	2.46	0.44
2:AB:21:ARG:HD3	2:AB:763:ASP:HB3	1.98	0.44
2:AB:572:PRO:O	2:AB:576:THR:OG1	2.16	0.44
2:AB:617:THR:CB	2:AB:620:LEU:HD23	2.48	0.44
7:AG:218:VAL:HA	7:AG:224:PRO:HA	1.99	0.44
8:AH:128:ASN:OD1	8:AH:130:ARG:HB2	2.17	0.44
9:AI:109:THR:HG21	9:AI:122:ARG:CZ	2.48	0.44
13:AM:18:GLN:HG3	13:AM:19:PRO:HD2	2.00	0.44
1:BA:16:PHE:N	1:BA:16:PHE:CD1	2.85	0.44
1:BA:342:ARG:CZ	1:BA:342:ARG:HB2	2.46	0.44
1:BA:621:THR:H	1:BA:621:THR:HG1	1.47	0.44
1:BA:657:TYR:O	1:BA:665:PRO:HA	2.17	0.44
1:BA:663:GLY:O	1:BA:790:LYS:HE3	2.18	0.44
1:BA:1011:VAL:HG21	2:BB:518:ARG:CD	2.48	0.44
1:BA:1348:VAL:HG11	2:BB:225:ARG:NH2	2.33	0.44
1:BA:1553:TYR:CE1	5:BE:147:HIS:CD2	3.06	0.44
3:BC:134:LEU:HD12	3:BC:208:CYS:SG	2.58	0.44
5:BE:39:LEU:O	5:BE:42:PHE:HB3	2.17	0.44
6:BF:79:ARG:HB3	6:BF:146:TRP:CZ2	2.53	0.44
7:BG:166:TRP:CE2	7:BG:219:ASP:HB2	2.53	0.44
8:BH:57:VAL:HG13	8:BH:144:ILE:CG1	2.48	0.44
8:BH:100:THR:O	8:BH:116:TYR:HA	2.18	0.44
9:BI:65:SER:OG	9:BI:66:VAL:N	2.51	0.44
14:BN:85:HIS:HB3	14:BN:87:TYR:CE1	2.52	0.44
1:CA:82:PRO:HG2	1:CA:396:ILE:CD1	2.45	0.44
1:CA:261:ILE:HG22	1:CA:265:ARG:HE	1.82	0.44
1:CA:659:THR:HG23	1:CA:664:SER:O	2.17	0.44
1:CA:832:ASP:OD2	1:CA:924:SER:OG	2.18	0.44
1:CA:928:MET:HG2	2:CB:955:PRO:HG3	1.99	0.44
1:CA:1263:LEU:HA	1:CA:1263:LEU:HD12	1.85	0.44
2:CB:181:VAL:HG22	10:CJ:63:TYR:OH	2.18	0.44
2:CB:703:LEU:HD23	2:CB:703:LEU:HA	1.75	0.44
2:CB:934:ILE:HG21	3:CC:73:SER:CB	2.46	0.44
5:CE:8:ASN:HA	5:CE:11:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:178:ILE:HD11	5:CE:182:ASP:HB3	1.98	0.44
1:DA:631:ASP:OD1	1:DA:631:ASP:N	2.45	0.44
1:DA:1162:ASN:O	1:DA:1165:LYS:HB2	2.17	0.44
1:DA:1332:GLU:O	1:DA:1336:GLN:HG2	2.18	0.44
2:DB:894:LYS:HB2	2:DB:894:LYS:HE3	1.80	0.44
2:DB:965:GLU:HB3	2:DB:1031:VAL:HG22	1.99	0.44
5:DE:52:ARG:HA	5:DE:53:PRO:HD3	1.80	0.44
7:DG:39:VAL:HB	7:DG:126:GLN:HE21	1.83	0.44
7:DG:67:ASN:O	7:DG:70:VAL:HG23	2.17	0.44
13:DM:16:GLN:CB	13:DM:91:TYR:HA	2.48	0.44
1:EA:10:GLU:CG	1:EA:1645:LYS:HE3	2.47	0.44
1:EA:122:LEU:O	1:EA:126:GLN:HG3	2.17	0.44
1:EA:213:ASN:O	1:EA:216:ARG:HB3	2.18	0.44
1:EA:257:ASN:O	1:EA:261:ILE:HG13	2.18	0.44
1:EA:342:ARG:CZ	1:EA:342:ARG:HB2	2.46	0.44
1:EA:552:GLU:OE2	1:EA:552:GLU:N	2.51	0.44
1:EA:1136:VAL:HG22	1:EA:1174:TYR:CE1	2.51	0.44
1:EA:1162:ASN:H	1:EA:1165:LYS:HD2	1.81	0.44
2:EB:74:PHE:CD1	2:EB:94:LYS:HA	2.52	0.44
2:EB:728:THR:HG21	2:EB:765:PHE:HA	1.98	0.44
2:EB:872:LYS:HD3	2:EB:872:LYS:HA	1.66	0.44
2:EB:898:LEU:HD13	2:EB:898:LEU:HA	1.58	0.44
2:EB:964:VAL:O	2:EB:966:SER:N	2.50	0.44
3:EC:235:ILE:HA	3:EC:289:VAL:HG13	2.00	0.44
8:EH:138:GLU:HB2	8:EH:139:ASN:H	1.62	0.44
11:EK:95:HIS:HA	11:EK:96:PRO:HD3	1.81	0.44
13:EM:18:GLN:CG	13:EM:19:PRO:HD2	2.48	0.44
13:EM:81:PHE:HB2	13:EM:88:ILE:HD13	1.99	0.44
13:EM:104:SER:OG	13:EM:105:SER:N	2.50	0.44
1:FA:127:TYR:CD1	1:FA:202:THR:HG21	2.53	0.44
1:FA:223:PHE:CZ	1:FA:227:LEU:HD21	2.53	0.44
1:FA:956:ARG:HE	1:FA:979:GLY:CA	2.24	0.44
1:FA:1261:VAL:O	1:FA:1498:ILE:HB	2.17	0.44
1:FA:1332:GLU:O	1:FA:1336:GLN:HG2	2.18	0.44
2:FB:273:VAL:O	2:FB:277:LEU:HD12	2.18	0.44
2:FB:858:ILE:HG12	2:FB:872:LYS:O	2.18	0.44
2:FB:956:SER:O	9:FI:107:GLY:HA2	2.18	0.44
3:FC:134:LEU:HD12	3:FC:208:CYS:SG	2.58	0.44
3:FC:136:LEU:HD22	3:FC:167:LEU:HA	2.00	0.44
6:FF:58:PHE:HZ	7:FG:117:TRP:CH2	2.35	0.44
7:FG:89:ILE:HA	7:FG:118:CYS:SG	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:16:PHE:N	1:AA:16:PHE:CD1	2.85	0.44
1:AA:127:TYR:HD1	1:AA:202:THR:HG21	1.83	0.44
1:AA:367:PHE:O	2:AB:1055:LEU:HD22	2.18	0.44
1:AA:1018:TYR:HD2	1:AA:1227:MET:HE1	1.83	0.44
1:AA:1485:MET:O	1:AA:1489:VAL:HG23	2.16	0.44
1:AA:1559:ARG:CZ	5:AE:200:ARG:HD3	2.47	0.44
2:AB:250:LEU:CD1	2:AB:378:ILE:HD13	2.48	0.44
2:AB:460:LYS:O	2:AB:463:TYR:HB3	2.18	0.44
2:AB:627:GLY:H	2:AB:642:LEU:HD22	1.82	0.44
12:AL:63:ARG:HH11	12:AL:63:ARG:HG3	1.82	0.44
1:BA:510:PRO:HG2	6:BF:102:SER:OG	2.18	0.44
1:BA:589:MET:SD	1:BA:635:MET:HG3	2.58	0.44
1:BA:1028:GLU:OE1	1:BA:1638:SER:HB2	2.17	0.44
1:BA:1116:GLN:HE21	5:BE:207:ARG:HE	1.65	0.44
2:BB:161:LEU:HD12	2:BB:162:PRO:CD	2.42	0.44
2:BB:210:ARG:HB2	2:BB:399:HIS:C	2.38	0.44
3:BC:314:PHE:CD2	11:BK:135:PHE:CZ	3.06	0.44
13:BM:80:LEU:O	13:BM:88:ILE:HD12	2.18	0.44
14:BN:110:LEU:CD2	14:BN:121:ILE:HA	2.48	0.44
1:CA:422:ARG:HD3	7:CO:272:ILE:HB	1.99	0.44
1:CA:850:SER:O	1:CA:853:THR:N	2.45	0.44
1:CA:879:LEU:HD12	1:CA:972:TYR:HB3	1.99	0.44
1:CA:952:LEU:HD22	1:CA:952:LEU:HA	1.85	0.44
1:CA:1092:GLU:O	1:CA:1095:LEU:N	2.50	0.44
1:CA:1597:ALA:O	1:CA:1602:GLY:HA3	2.17	0.44
1:CA:1660:VAL:HA	1:CA:1661:PRO:HD3	1.87	0.44
2:CB:47:GLY:HA2	2:CB:50:ASN:HD22	1.82	0.44
2:CB:359:LEU:HD22	2:CB:361:HIS:CE1	2.53	0.44
2:CB:848:ILE:H	2:CB:848:ILE:HG12	1.56	0.44
2:CB:954:PHE:N	2:CB:955:PRO:HD2	2.32	0.44
2:CB:996:PHE:HA	2:CB:999:GLN:HG3	2.00	0.44
3:CC:230:LEU:HD11	3:CC:270:ALA:HB3	1.99	0.44
7:CG:105:ILE:HG23	7:CG:115:PHE:O	2.18	0.44
8:CH:25:ARG:NH2	8:CH:39:THR:HG21	2.32	0.44
9:CI:111:PHE:HA	9:CI:121:PHE:O	2.18	0.44
11:CK:80:ILE:HD13	11:CK:105:ILE:HD11	1.99	0.44
1:DA:11:ILE:CG2	2:DB:1198:TYR:HB2	2.45	0.44
1:DA:856:GLU:H	1:DA:856:GLU:HG3	1.67	0.44
1:DA:1440:ASN:O	1:DA:1444:ARG:HB3	2.18	0.44
2:DB:210:ARG:NH2	2:DB:625:GLU:OE1	2.51	0.44
2:DB:378:ILE:O	2:DB:381:LEU:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:840:LEU:HD12	2:DB:857:PRO:HB2	1.98	0.44
3:DC:53:ASN:ND2	3:DC:300:PHE:O	2.51	0.44
5:DE:127:ILE:HD11	5:DE:132:ILE:CD1	2.47	0.44
6:DF:65:ARG:HB3	6:DF:65:ARG:NH1	2.32	0.44
9:DI:121:PHE:HD1	9:DI:121:PHE:H	1.64	0.44
1:EA:475:ARG:HB3	1:EA:475:ARG:HH11	1.83	0.44
1:EA:491:GLU:OE2	1:EA:808:LYS:HE3	2.17	0.44
1:EA:697:TYR:CE1	1:EA:702:PRO:HD3	2.49	0.44
1:EA:821:ILE:HD13	2:EB:777:SER:HB2	1.98	0.44
1:EA:960:MET:O	1:EA:963:GLY:N	2.46	0.44
1:EA:1237:GLN:HB3	1:EA:1520:VAL:CG1	2.48	0.44
1:EA:1324:LEU:HD22	1:EA:1492:ILE:HG23	1.99	0.44
1:EA:1538:VAL:HA	1:EA:1541:ILE:HD11	2.00	0.44
2:EB:463:TYR:HE1	2:EB:467:THR:HG21	1.83	0.44
2:EB:785:ASP:HB3	2:EB:957:ARG:HH22	1.83	0.44
2:EB:902:SER:O	2:EB:903:ILE:HG23	2.18	0.44
2:EB:1047:ARG:NH1	2:EB:1050:GLY:H	2.16	0.44
2:EB:1180:PHE:O	2:EB:1182:LEU:N	2.51	0.44
3:EC:54:PHE:CD1	3:EC:54:PHE:N	2.86	0.44
3:EC:209:ILE:H	3:EC:209:ILE:HD13	1.83	0.44
13:EM:59:ARG:HD2	13:EM:60:LEU:HD21	2.00	0.44
1:FA:425:ASN:OD1	7:FO:273:VAL:N	2.51	0.44
1:FA:670:ILE:O	1:FA:673:HIS:HB2	2.18	0.44
1:FA:1226:VAL:HG22	1:FA:1598:PHE:CE1	2.53	0.44
2:FB:274:VAL:HG11	2:FB:313:PHE:HB2	1.99	0.44
2:FB:757:TYR:CE2	2:FB:762:MET:HB3	2.52	0.44
2:FB:840:LEU:HD12	2:FB:857:PRO:HB2	2.00	0.44
3:FC:77:SER:OG	3:FC:78:VAL:N	2.51	0.44
5:FE:175:LEU:HD22	5:FE:175:LEU:HA	1.63	0.44
14:FN:64:ILE:C	14:FN:66:LYS:H	2.20	0.44
1:AA:456:VAL:O	1:AA:460:LEU:HG	2.18	0.44
1:AA:547:ILE:C	1:AA:549:MET:H	2.21	0.44
1:AA:1095:LEU:CD2	1:AA:1134:GLY:HA3	2.47	0.44
1:AA:1450:ILE:O	1:AA:1454:HIS:ND1	2.41	0.44
2:AB:260:PHE:CD2	2:AB:276:ILE:HG12	2.52	0.44
2:AB:699:ILE:HD13	2:AB:699:ILE:N	2.29	0.44
3:AC:131:THR:HG23	3:AC:209:ILE:HG22	1.99	0.44
4:AD:39:PHE:CD2	7:AG:123:TYR:HD2	2.35	0.44
5:AE:26:ARG:NH2	5:AE:133:GLU:OE1	2.44	0.44
13:AM:57:ASN:O	13:AM:103:LYS:NZ	2.50	0.44
1:BA:530:TRP:CZ2	1:BA:607:VAL:HG21	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:644:ARG:HH21	6:BF:118:LEU:HD23	1.82	0.44
1:BA:806:ALA:O	1:BA:809:VAL:N	2.51	0.44
1:BA:1105:ARG:HH12	1:BA:1138:GLU:CD	2.20	0.44
1:BA:1263:LEU:O	1:BA:1265:GLU:N	2.51	0.44
1:BA:1450:ILE:HG22	1:BA:1457:ILE:HG21	2.00	0.44
1:BA:1472:PHE:O	1:BA:1473:LYS:HB3	2.17	0.44
1:BA:1612:LYS:HD3	1:BA:1621:PHE:CD1	2.52	0.44
2:BB:380:LYS:HE3	2:BB:637:TYR:CB	2.47	0.44
2:BB:533:THR:OG1	2:BB:534:PRO:HD2	2.18	0.44
2:BB:744:LEU:HD12	2:BB:800:TYR:O	2.18	0.44
2:BB:1046:VAL:HG22	2:BB:1047:ARG:N	2.31	0.44
2:BB:1178:ILE:HD12	2:BB:1182:LEU:HB3	2.00	0.44
11:BK:50:LEU:O	11:BK:54:THR:HG23	2.18	0.44
14:BN:64:ILE:C	14:BN:66:LYS:H	2.20	0.44
1:CA:794:VAL:HG23	1:CA:795:HIS:N	2.21	0.44
1:CA:1028:GLU:CD	1:CA:1637:PRO:HB2	2.39	0.44
1:CA:1446:ARG:HG2	1:CA:1450:ILE:HD13	2.00	0.44
2:CB:212:ASN:OD1	2:CB:239:VAL:HG13	2.18	0.44
2:CB:1076:ARG:O	2:CB:1080:ILE:HG13	2.17	0.44
13:CM:51:PHE:H	13:CM:66:THR:CG2	2.31	0.44
1:DA:1196:PRO:C	1:DA:1198:THR:H	2.20	0.44
1:DA:1337:LYS:HE2	1:DA:1337:LYS:HB3	1.85	0.44
1:DA:1600:ARG:HB3	1:DA:1601:GLN:OE1	2.17	0.44
2:DB:107:PRO:HG2	2:DB:133:TYR:CZ	2.53	0.44
2:DB:349:VAL:O	2:DB:353:VAL:HG23	2.17	0.44
2:DB:372:ARG:HA	2:DB:375:LEU:HD12	2.00	0.44
2:DB:1002:LYS:O	14:DN:168:LEU:HD23	2.17	0.44
3:DC:173:GLY:C	3:DC:175:GLN:H	2.20	0.44
7:DG:106:LYS:O	7:DG:107:ILE:HD13	2.17	0.44
8:DH:57:VAL:HG13	8:DH:144:ILE:CG1	2.45	0.44
11:DK:138:LYS:O	11:DK:142:MET:HB2	2.17	0.44
7:DO:290:GLU:CD	7:DO:291:SER:N	2.71	0.44
1:EA:514:TYR:OH	6:EF:102:SER:HA	2.18	0.44
1:EA:674:ILE:HG22	1:EA:675:SER:N	2.32	0.44
1:EA:709:ARG:C	1:EA:711:LYS:H	2.14	0.44
1:EA:751:SER:OG	1:EA:752:LYS:N	2.50	0.44
2:EB:863:ASP:OD2	2:EB:866:LEU:HD12	2.18	0.44
2:EB:961:GLY:HA2	2:EB:964:VAL:HG23	1.99	0.44
8:EH:94:ASP:OD1	8:EH:94:ASP:N	2.50	0.44
14:EN:139:VAL:HB	14:EN:140:SER:H	1.33	0.44
1:FA:773:ASP:OD2	1:FA:773:ASP:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:808:LYS:O	1:FA:811:SER:N	2.51	0.44
1:FA:1056:ASP:OD1	1:FA:1057:ILE:N	2.51	0.44
2:FB:586:VAL:HB	2:FB:593:ILE:HG22	2.00	0.44
2:FB:954:PHE:H	2:FB:955:PRO:HD2	1.83	0.44
2:FB:1115:GLN:NE2	2:FB:1124:SER:OG	2.51	0.44
2:FB:1123:ILE:HD12	2:FB:1124:SER:H	1.83	0.44
3:FC:76:PRO:HA	3:FC:211:GLY:O	2.18	0.44
3:FC:216:HIS:ND1	3:FC:218:LYS:HB3	2.32	0.44
3:FC:229:LEU:O	3:FC:231:PRO:HD3	2.18	0.44
3:FC:328:LEU:HA	3:FC:328:LEU:HD13	1.48	0.44
5:FE:143:ASN:HB3	5:FE:146:HIS:CE1	2.53	0.44
7:FG:80:VAL:HG12	7:FG:82:LEU:CD2	2.48	0.44
7:FG:105:ILE:HG23	7:FG:115:PHE:O	2.17	0.44
13:FM:10:ILE:HD12	13:FM:10:ILE:N	2.33	0.44
7:FO:267:ALA:O	7:FO:269:SER:N	2.51	0.44
1:AA:462:LYS:HD3	1:AA:469:LYS:HZ2	1.83	0.43
1:AA:491:GLU:OE1	1:AA:815:ARG:NH2	2.28	0.43
1:AA:555:LYS:O	1:AA:558:ALA:HB3	2.18	0.43
1:AA:1001:ALA:O	1:AA:1004:GLU:HB2	2.17	0.43
1:AA:1241:PRO:HG3	1:AA:1540:GLY:CA	2.48	0.43
1:AA:1440:ASN:C	1:AA:1442:VAL:H	2.21	0.43
1:AA:1617:THR:OG1	1:AA:1617:THR:O	2.31	0.43
2:AB:656:LEU:HG	2:AB:687:THR:O	2.18	0.43
2:AB:744:LEU:HD12	2:AB:745:GLN:H	1.83	0.43
2:AB:898:LEU:HD13	2:AB:898:LEU:HA	1.64	0.43
2:AB:949:ILE:HG13	2:AB:950:ASN:N	2.33	0.43
7:AG:162:ILE:HG13	7:AG:162:ILE:H	1.66	0.43
7:AG:233:VAL:HG13	7:AG:245:VAL:HG13	2.00	0.43
11:AK:138:LYS:O	11:AK:142:MET:HB2	2.18	0.43
1:BA:98:LEU:HA	1:BA:324:LEU:HD21	1.99	0.43
1:BA:113:VAL:HG22	1:BA:182:LYS:CE	2.48	0.43
1:BA:956:ARG:HB3	1:BA:957:VAL:H	1.47	0.43
1:BA:1102:LEU:HD22	1:BA:1141:GLN:HE21	1.81	0.43
1:BA:1148:LEU:CD2	1:BA:1163:GLU:HG2	2.48	0.43
1:BA:1224:GLU:HB3	1:BA:1233:ILE:HG22	1.99	0.43
1:BA:1447:GLN:HE22	1:BA:1459:LYS:HG2	1.83	0.43
2:BB:35:PHE:O	2:BB:38:LEU:HD23	2.18	0.43
2:BB:748:GLN:HE22	10:BJ:49:MET:HA	1.84	0.43
3:BC:97:LEU:HA	3:BC:97:LEU:HD23	1.62	0.43
12:BL:61:THR:O	12:BL:63:ARG:N	2.51	0.43
1:CA:32:ILE:HG21	1:CA:49:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:50:TYR:OH	1:CA:370:PRO:HG3	2.17	0.43
1:CA:718:THR:HG22	8:CH:98:TYR:O	2.18	0.43
1:CA:1026:GLN:HA	1:CA:1611:MET:CE	2.47	0.43
1:CA:1085:LEU:H	1:CA:1085:LEU:HG	1.55	0.43
2:CB:99:VAL:HG11	2:CB:139:LEU:HD13	1.99	0.43
2:CB:565:LEU:HA	2:CB:565:LEU:HD23	1.69	0.43
2:CB:1007:TYR:C	2:CB:1009:GLY:H	2.22	0.43
2:CB:1048:SER:OG	2:CB:1049:THR:N	2.50	0.43
2:CB:1107:CYS:O	2:CB:1197:ARG:HG3	2.18	0.43
4:CD:19:PRO:HB3	7:CG:46:TYR:O	2.18	0.43
5:CE:80:VAL:HG22	5:CE:109:ILE:HB	1.99	0.43
9:CI:20:PRO:O	9:CI:22:ALA:N	2.51	0.43
11:CK:114:VAL:O	11:CK:117:LEU:HB3	2.18	0.43
1:DA:527:PRO:HG3	1:DA:534:THR:HA	2.00	0.43
1:DA:808:LYS:O	1:DA:809:VAL:C	2.56	0.43
1:DA:969:PHE:CD2	1:DA:978:ALA:HA	2.53	0.43
1:DA:1263:LEU:C	1:DA:1265:GLU:N	2.72	0.43
1:DA:1580:ARG:NH2	5:DE:204:THR:HG23	2.33	0.43
1:DA:1604:GLU:HA	1:DA:1612:LYS:HE2	2.00	0.43
2:DB:703:LEU:HD23	2:DB:703:LEU:HA	1.73	0.43
12:DL:33:GLU:HG3	12:DL:53:HIS:ND1	2.33	0.43
13:DM:66:THR:HG22	13:DM:96:LEU:HG	2.00	0.43
14:DN:57:LYS:HD3	14:DN:138:SER:OG	2.18	0.43
1:EA:670:ILE:HD13	1:EA:670:ILE:H	1.82	0.43
1:EA:810:LEU:O	1:EA:813:LEU:N	2.51	0.43
1:EA:996:TYR:OH	2:EB:521:LEU:O	2.29	0.43
1:EA:1022:CYS:HA	1:EA:1615:TYR:OH	2.18	0.43
1:EA:1117:SER:C	1:EA:1119:LYS:H	2.21	0.43
1:EA:1261:VAL:C	1:EA:1498:ILE:HB	2.38	0.43
1:EA:1344:ILE:CD1	1:EA:1344:ILE:H	2.30	0.43
1:EA:1526:PHE:O	1:EA:1528:ALA:N	2.51	0.43
2:EB:360:VAL:HA	2:EB:370:LYS:NZ	2.15	0.43
2:EB:898:LEU:HD22	12:EL:46:VAL:HG22	1.99	0.43
2:EB:979:GLN:OE1	2:EB:979:GLN:HA	2.18	0.43
3:EC:163:TYR:N	3:EC:166:ASP:OD2	2.47	0.43
3:EC:229:LEU:HD22	3:EC:295:ARG:HA	1.99	0.43
3:EC:289:VAL:HG12	3:EC:290:LYS:H	1.81	0.43
7:EG:92:ALA:O	7:EG:94:PRO:HD3	2.18	0.43
12:EL:63:ARG:HG3	12:EL:63:ARG:NH1	2.33	0.43
1:FA:38:LEU:HB2	7:FO:291:SER:HB3	2.00	0.43
1:FA:70:LYS:HE2	1:FA:71:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:370:PRO:O	7:FO:310:TYR:HB3	2.18	0.43
1:FA:571:HIS:CE1	1:FA:572:THR:HG23	2.52	0.43
1:FA:934:LYS:HG3	2:FB:956:SER:HB3	2.00	0.43
2:FB:586:VAL:O	2:FB:593:ILE:HG22	2.18	0.43
2:FB:850:THR:O	2:FB:881:TYR:HA	2.18	0.43
2:FB:939:SER:HA	2:FB:1013:MET:SD	2.58	0.43
2:FB:970:LYS:HG2	2:FB:1000:LEU:HD21	2.00	0.43
2:FB:1094:ASN:OD1	2:FB:1094:ASN:N	2.50	0.43
5:FE:55:ARG:O	5:FE:58:MET:HB2	2.18	0.43
7:FG:31:LYS:O	7:FG:33:GLY:N	2.51	0.43
14:FN:75:GLU:H	14:FN:91:ASP:CG	2.21	0.43
14:FN:87:TYR:HB3	14:FN:139:VAL:CG1	2.41	0.43
1:AA:223:PHE:CZ	1:AA:227:LEU:HD21	2.54	0.43
1:AA:879:LEU:HD12	1:AA:972:TYR:HB3	2.00	0.43
1:AA:1271:ILE:HG22	9:AI:48:VAL:HG12	1.99	0.43
1:AA:1623:THR:O	1:AA:1627:LEU:HG	2.19	0.43
2:AB:21:ARG:HE	2:AB:21:ARG:HB3	1.68	0.43
2:AB:203:ILE:HA	2:AB:484:TYR:O	2.18	0.43
2:AB:347:LEU:HD13	2:AB:347:LEU:HA	1.72	0.43
2:AB:714:ARG:HD3	2:AB:714:ARG:HA	1.77	0.43
2:AB:785:ASP:HB3	2:AB:957:ARG:HH22	1.83	0.43
13:AM:66:THR:HB	13:AM:71:GLN:HG3	2.00	0.43
1:BA:1240:LEU:HD11	1:BA:1529:MET:SD	2.58	0.43
1:BA:1612:LYS:HB3	1:BA:1621:PHE:CG	2.52	0.43
2:BB:286:ARG:HD2	9:BI:9:PHE:CG	2.53	0.43
3:BC:59:ILE:HG12	3:BC:60:ASP:H	1.84	0.43
7:BG:26:ASN:HA	7:BG:27:PRO:HD3	1.91	0.43
7:BG:91:ASP:OD2	7:BG:103:LYS:HG2	2.18	0.43
12:BL:63:ARG:HG2	12:BL:64:LEU:N	2.28	0.43
13:BM:23:VAL:HB	13:BM:95:VAL:HG22	1.99	0.43
1:CA:49:LEU:HD23	1:CA:49:LEU:HA	1.79	0.43
1:CA:918:LYS:O	1:CA:923:ASN:ND2	2.43	0.43
1:CA:1323:HIS:CD2	1:CA:1454:HIS:CD2	3.06	0.43
1:CA:1481:GLU:H	1:CA:1481:GLU:HG2	1.59	0.43
2:CB:416:LYS:HD2	2:CB:460:LYS:HD2	1.99	0.43
2:CB:707:SER:HB2	2:CB:715:ASN:OD1	2.18	0.43
2:CB:728:THR:OG1	2:CB:766:PRO:O	2.18	0.43
2:CB:902:SER:O	2:CB:903:ILE:HG23	2.18	0.43
3:CC:67:PHE:CE1	3:CC:318:VAL:HG22	2.53	0.43
4:CD:21:VAL:O	4:CD:22:ILE:HD13	2.18	0.43
5:CE:170:LEU:HD13	5:CE:175:LEU:HD23	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:80:VAL:O	7:CG:124:VAL:HG13	2.18	0.43
8:CH:108:SER:O	8:CH:109:LYS:C	2.56	0.43
10:CJ:60:PHE:O	10:CJ:63:TYR:N	2.48	0.43
1:DA:15:ASP:OD1	1:DA:1631:ARG:HA	2.18	0.43
1:DA:113:VAL:HG22	1:DA:182:LYS:NZ	2.33	0.43
1:DA:247:GLY:O	1:DA:442:LYS:HG2	2.18	0.43
1:DA:521:GLN:O	1:DA:524:ILE:HB	2.18	0.43
1:DA:706:HIS:NE2	1:DA:739:VAL:O	2.49	0.43
1:DA:719:ILE:HG22	1:DA:725:LEU:HB2	2.00	0.43
1:DA:831:ASP:O	1:DA:918:LYS:HB2	2.17	0.43
1:DA:966:LEU:HG	1:DA:968:SER:N	2.26	0.43
1:DA:1490:GLU:O	1:DA:1493:CYS:HB2	2.19	0.43
2:DB:393:ASN:HD21	2:DB:395:ASP:HB2	1.81	0.43
2:DB:666:PRO:O	2:DB:670:VAL:HG22	2.18	0.43
5:DE:170:LEU:HD13	5:DE:175:LEU:HD23	2.00	0.43
7:DG:40:ARG:HD3	7:DG:123:TYR:HE1	1.83	0.43
7:DG:144:HIS:HA	7:DG:157:ILE:O	2.18	0.43
7:DG:235:ASN:HB3	7:DG:246:ASP:HB3	2.00	0.43
8:DH:56:THR:O	8:DH:144:ILE:HG23	2.18	0.43
1:EA:36:THR:HA	7:EO:288:ASN:OD1	2.17	0.43
1:EA:457:LYS:C	1:EA:459:ALA:H	2.21	0.43
1:EA:492:THR:HG23	1:EA:811:SER:OG	2.18	0.43
1:EA:498:PRO:HA	1:EA:499:PRO:HD3	1.66	0.43
1:EA:956:ARG:NE	1:EA:979:GLY:HA3	2.24	0.43
1:EA:1159:ASP:O	1:EA:1161:VAL:N	2.51	0.43
1:EA:1344:ILE:HG22	2:EB:334:PHE:HE2	1.84	0.43
2:EB:52:LEU:HD22	2:EB:61:LEU:CD2	2.48	0.43
2:EB:477:ASP:O	2:EB:478:LEU:HG	2.18	0.43
2:EB:975:HIS:HE1	14:EN:167:LYS:O	2.01	0.43
3:EC:209:ILE:HG12	3:EC:210:LEU:O	2.18	0.43
5:EE:64:PRO:HB3	5:EE:68:SER:CB	2.48	0.43
7:EG:218:VAL:HA	7:EG:224:PRO:HA	1.99	0.43
1:FA:914:ASP:O	1:FA:919:LYS:NZ	2.35	0.43
1:FA:1062:HIS:CD2	1:FA:1068:PHE:CD1	3.06	0.43
1:FA:1241:PRO:HG3	1:FA:1540:GLY:CA	2.48	0.43
2:FB:362:LEU:HD23	2:FB:362:LEU:HA	1.75	0.43
2:FB:470:LEU:HD22	2:FB:484:TYR:HE1	1.83	0.43
2:FB:744:LEU:HD12	2:FB:745:GLN:N	2.33	0.43
2:FB:987:ASN:O	2:FB:989:ASP:N	2.51	0.43
2:FB:1130:ARG:NH2	2:FB:1195:ARG:HD2	2.33	0.43
2:FB:1180:PHE:O	2:FB:1182:LEU:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:FH:108:SER:O	8:FH:109:LYS:C	2.57	0.43
14:FN:40:LEU:HD12	14:FN:41:ASN:N	2.26	0.43
1:AA:553:GLN:NE2	2:BB:834:LYS:HB2	2.34	0.43
1:AA:1237:GLN:H	1:AA:1544:ASN:CB	2.27	0.43
1:AA:1657:LEU:HA	7:AG:107:ILE:HG12	1.99	0.43
2:AB:210:ARG:NH2	2:AB:625:GLU:OE1	2.52	0.43
3:AC:103:LEU:O	10:AJ:6:ARG:NE	2.51	0.43
3:AC:135:SER:O	3:AC:168:LYS:HG3	2.18	0.43
5:AE:177:ARG:CZ	5:AE:179:GLN:HE22	2.32	0.43
9:AI:101:LEU:CD1	9:AI:122:ARG:HH22	2.32	0.43
10:AJ:33:GLY:O	10:AJ:47:ARG:NH2	2.51	0.43
13:AM:18:GLN:HB3	14:AN:36:LYS:HE3	2.00	0.43
7:AO:311:GLU:O	7:AO:312:GLU:HB2	2.17	0.43
1:BA:668:GLY:HA3	1:BA:787:GLY:C	2.39	0.43
1:BA:720:PHE:CZ	8:BH:141:TYR:HE2	2.35	0.43
1:BA:839:GLY:O	1:BA:842:TRP:HB2	2.17	0.43
1:BA:1001:ALA:O	1:BA:1004:GLU:HB2	2.18	0.43
1:BA:1263:LEU:C	1:BA:1265:GLU:H	2.21	0.43
2:BB:426:ALA:O	2:BB:429:ARG:HB3	2.18	0.43
2:BB:1136:GLU:H	2:BB:1136:GLU:HG3	1.35	0.43
3:BC:71:MET:HE3	3:BC:71:MET:HB3	1.93	0.43
5:BE:112:TYR:CE1	5:BE:136:ASN:HB2	2.52	0.43
6:BF:118:LEU:HD13	6:BF:118:LEU:HA	1.82	0.43
6:BF:153:VAL:O	6:BF:154:ASP:HB2	2.18	0.43
11:BK:95:HIS:HA	11:BK:96:PRO:HD3	1.81	0.43
7:BO:283:GLU:HA	7:BO:286:ILE:HD12	2.01	0.43
1:CA:483:VAL:N	1:CA:632:GLU:HG2	2.33	0.43
1:CA:1463:ASP:C	1:CA:1465:GLU:N	2.71	0.43
1:DA:3:ILE:HA	7:DG:111:THR:HG22	2.00	0.43
1:DA:1067:GLU:C	1:DA:1069:CYS:N	2.70	0.43
1:DA:1243:TRP:HA	1:DA:1243:TRP:CE3	2.53	0.43
1:DA:1246:VAL:HG22	1:DA:1250:GLN:NE2	2.33	0.43
2:DB:194:PHE:O	2:DB:200:GLU:HA	2.18	0.43
2:DB:347:LEU:HD13	2:DB:347:LEU:HA	1.75	0.43
2:DB:389:CYS:HB2	2:DB:635:GLY:O	2.18	0.43
3:DC:83:VAL:N	12:DL:67:PHE:O	2.41	0.43
3:DC:195:LYS:HB2	10:DJ:57:ILE:CD1	2.48	0.43
7:DG:53:TYR:HB3	7:DG:56:ASN:O	2.18	0.43
7:DG:131:ASP:O	7:DG:233:VAL:HG23	2.18	0.43
1:EA:77:GLY:O	1:EA:78:HIS:HB3	2.18	0.43
1:EA:399:LEU:HD13	7:EO:271:PRO:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1441:LYS:HA	1:EA:1444:ARG:HD2	2.00	0.43
1:EA:1546:VAL:HG21	1:EA:1595:TYR:CE2	2.54	0.43
2:EB:548:LYS:HA	2:EB:550:ARG:NH2	2.34	0.43
2:EB:778:TYR:CE2	2:EB:937:PRO:HD3	2.54	0.43
2:EB:909:ARG:O	2:EB:1035:ARG:NH2	2.42	0.43
3:EC:67:PHE:HE1	3:EC:318:VAL:HA	1.83	0.43
3:EC:97:LEU:HD23	3:EC:97:LEU:HA	1.57	0.43
3:EC:147:PRO:HG2	3:EC:150:SER:HB2	1.99	0.43
3:EC:181:ASP:O	3:EC:183:PRO:HD3	2.19	0.43
5:EE:178:ILE:HD11	5:EE:182:ASP:HB3	2.00	0.43
11:EK:83:ASN:HA	11:EK:84:PRO:HD2	1.84	0.43
13:EM:66:THR:HB	13:EM:71:GLN:HG3	2.00	0.43
7:EO:286:ILE:HG22	7:EO:287:GLU:N	2.33	0.43
1:FA:674:ILE:CG2	1:FA:931:SER:HB2	2.48	0.43
1:FA:1584:LEU:HD13	1:FA:1584:LEU:HA	1.89	0.43
2:FB:98:SER:O	2:FB:141:LEU:HD12	2.18	0.43
2:FB:350:GLY:O	2:FB:353:VAL:HB	2.18	0.43
2:FB:459:SER:O	2:FB:462:GLN:N	2.51	0.43
2:FB:565:LEU:HD23	2:FB:565:LEU:HA	1.72	0.43
2:FB:622:ILE:H	2:FB:622:ILE:HD12	1.83	0.43
8:FH:118:PHE:CD2	8:FH:118:PHE:N	2.86	0.43
14:FN:54:TRP:CZ2	14:FN:135:LYS:HD2	2.53	0.43
1:AA:477:ASN:OD1	2:AB:1049:THR:HG23	2.17	0.43
1:AA:1078:LYS:HD2	1:AA:1078:LYS:HA	1.75	0.43
2:AB:302:LEU:HD11	2:AB:379:ARG:NH1	2.33	0.43
2:AB:906:ARG:NE	3:AC:95:GLU:OE2	2.47	0.43
2:AB:931:TRP:HA	2:AB:932:PRO:HD3	1.82	0.43
2:AB:1110:ILE:HD13	2:AB:1111:LEU:CD2	2.49	0.43
5:AE:82:PHE:CZ	5:AE:111:VAL:HG21	2.54	0.43
6:AF:136:ARG:O	6:AF:143:PHE:HB2	2.18	0.43
7:AO:265:SER:C	7:AO:267:ALA:H	2.16	0.43
1:BA:363:PRO:HB3	2:BB:1187:SER:OG	2.19	0.43
1:BA:759:TYR:HB3	1:BA:920:PHE:CD2	2.53	0.43
1:BA:952:LEU:HD21	1:BA:1000:MET:O	2.18	0.43
1:BA:1238:MET:HG3	1:BA:1524:VAL:HG22	2.00	0.43
2:BB:526:GLY:CA	2:BB:696:ILE:HG22	2.48	0.43
2:BB:774:ALA:HA	2:BB:1028:VAL:HG12	2.00	0.43
2:BB:944:GLN:HA	2:BB:945:PRO:HD3	1.75	0.43
2:BB:949:ILE:HG13	2:BB:950:ASN:N	2.33	0.43
2:BB:1117:VAL:HG21	2:BB:1162:GLY:N	2.34	0.43
2:BB:1119:ARG:HD2	2:BB:1119:ARG:HA	1.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BH:101:ALA:HB2	8:BH:116:TYR:HE1	1.83	0.43
10:BJ:3:VAL:HG12	10:BJ:15:GLY:HA2	2.00	0.43
7:BO:304:ASN:HB2	7:BO:306:SER:HB3	2.00	0.43
1:CA:247:GLY:O	1:CA:442:LYS:HG2	2.19	0.43
1:CA:385:LEU:O	1:CA:389:VAL:HG23	2.18	0.43
1:CA:756:LYS:HE3	1:CA:759:TYR:HE2	1.83	0.43
1:CA:1022:CYS:SG	1:CA:1615:TYR:OH	2.76	0.43
1:CA:1184:ALA:O	1:CA:1186:GLY:N	2.51	0.43
1:CA:1546:VAL:O	1:CA:1549:VAL:N	2.51	0.43
2:CB:526:GLY:N	2:CB:696:ILE:HG22	2.33	0.43
2:CB:636:GLN:HG3	2:CB:637:TYR:N	2.32	0.43
2:CB:662:ASP:O	2:CB:663:ILE:HB	2.19	0.43
2:CB:772:VAL:HB	2:CB:946:ASP:OD2	2.19	0.43
2:CB:825:PHE:CE2	2:CB:899:GLN:HA	2.52	0.43
3:CC:42:VAL:HG22	3:CC:56:LEU:HD22	2.00	0.43
7:CG:166:TRP:CE2	7:CG:219:ASP:HB2	2.54	0.43
8:CH:9:ILE:HD13	8:CH:56:THR:HG23	1.99	0.43
8:CH:62:SER:HA	8:CH:141:TYR:CD1	2.53	0.43
13:CM:51:PHE:H	13:CM:66:THR:HG23	1.82	0.43
1:DA:399:LEU:CD1	7:DO:271:PRO:HG2	2.48	0.43
1:DA:1623:THR:HA	1:DA:1626:VAL:HG22	1.99	0.43
2:DB:36:PRO:O	2:DB:39:GLN:HG3	2.18	0.43
3:DC:328:LEU:HA	3:DC:328:LEU:HD13	1.59	0.43
6:DF:138:LEU:HB3	6:DF:140:ASP:OD1	2.19	0.43
1:EA:650:LEU:HD23	1:EA:650:LEU:O	2.18	0.43
1:EA:1001:ALA:O	1:EA:1004:GLU:HB2	2.17	0.43
1:EA:1006:LEU:HD22	9:EI:103:SER:HA	2.00	0.43
1:EA:1051:GLY:O	5:EE:204:THR:HB	2.18	0.43
1:EA:1337:LYS:HE2	1:EA:1337:LYS:HB3	1.78	0.43
2:EB:345:SER:HA	13:EM:113:ILE:CG1	2.47	0.43
2:EB:656:LEU:HG	2:EB:687:THR:O	2.18	0.43
2:EB:1013:MET:O	2:EB:1022:LEU:HG	2.18	0.43
8:EH:102:TYR:HE2	8:EH:116:TYR:C	2.21	0.43
13:EM:65:TYR:O	13:EM:97:VAL:N	2.47	0.43
13:EM:82:ASN:HA	13:EM:83:PRO:HD2	1.86	0.43
14:EN:145:ILE:H	14:EN:145:ILE:HG13	1.65	0.43
1:FA:499:PRO:HG3	1:FA:609:PRO:HA	2.00	0.43
1:FA:554:ARG:O	1:FA:555:LYS:C	2.57	0.43
1:FA:1085:LEU:H	1:FA:1085:LEU:HG	1.59	0.43
1:FA:1597:ALA:O	1:FA:1602:GLY:HA3	2.18	0.43
2:FB:954:PHE:N	2:FB:955:PRO:HD2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:FC:83:VAL:HG12	3:FC:204:LEU:HD12	2.00	0.43
3:FC:134:LEU:HD23	3:FC:169:PHE:HD1	1.84	0.43
7:FG:60:GLY:O	7:FG:64:GLN:HB2	2.17	0.43
7:FG:144:HIS:HA	7:FG:157:ILE:O	2.18	0.43
8:FH:46:LEU:HD23	8:FH:46:LEU:HA	1.83	0.43
7:FO:297:LEU:HD13	7:FO:310:TYR:CD2	2.50	0.43
1:AA:62:CYS:SG	1:AA:64:THR:N	2.88	0.43
1:AA:122:LEU:O	1:AA:126:GLN:HG3	2.18	0.43
1:AA:132:GLU:OE2	1:AA:201:ARG:NH2	2.50	0.43
1:AA:213:ASN:ND2	1:AA:1606:SER:O	2.52	0.43
1:AA:406:LEU:HB3	7:AO:266:GLN:HB2	1.99	0.43
1:AA:492:THR:HG23	1:AA:811:SER:OG	2.17	0.43
1:AA:821:ILE:CD1	2:AB:777:SER:HB2	2.48	0.43
1:AA:1007:ILE:O	1:AA:1011:VAL:HB	2.17	0.43
2:AB:338:PHE:CZ	2:AB:353:VAL:HG13	2.53	0.43
2:AB:523:GLU:H	2:AB:523:GLU:HG2	1.45	0.43
2:AB:840:LEU:HD11	2:AB:858:ILE:C	2.39	0.43
6:AF:79:ARG:HB3	6:AF:146:TRP:CZ2	2.53	0.43
6:AF:118:LEU:HD13	6:AF:118:LEU:HA	1.78	0.43
13:AM:102:SER:O	13:AM:106:LYS:HB2	2.19	0.43
1:BA:34:ASN:HA	1:BA:35:PRO:HD3	1.88	0.43
1:BA:677:GLY:O	1:BA:681:THR:HG23	2.19	0.43
1:BA:772:LYS:HE3	1:BA:772:LYS:HB3	1.90	0.43
1:BA:1456:PHE:HB3	1:BA:1474:LEU:CD1	2.41	0.43
1:BA:1481:GLU:H	1:BA:1481:GLU:HG2	1.45	0.43
1:BA:1546:VAL:HG21	1:BA:1595:TYR:CE2	2.53	0.43
2:BB:250:LEU:CD1	2:BB:378:ILE:HD13	2.47	0.43
2:BB:772:VAL:HB	2:BB:946:ASP:OD2	2.18	0.43
2:BB:917:PHE:CD2	2:BB:1035:ARG:HA	2.53	0.43
2:BB:1111:LEU:HD23	2:BB:1111:LEU:H	1.83	0.43
5:BE:154:ILE:HB	5:BE:197:LYS:HB3	2.00	0.43
10:BJ:48:ARG:HB3	10:BJ:48:ARG:HH11	1.82	0.43
13:BM:16:GLN:CG	13:BM:17:ASP:H	2.31	0.43
14:BN:54:TRP:CZ2	14:BN:135:LYS:HD2	2.53	0.43
14:BN:55:LEU:O	14:BN:136:VAL:HA	2.19	0.43
14:BN:124:THR:C	14:BN:126:LYS:H	2.22	0.43
1:CA:585:ASP:OD1	1:CA:644:ARG:NH1	2.50	0.43
1:CA:1057:ILE:H	1:CA:1057:ILE:HD12	1.84	0.43
1:CA:1314:GLN:O	1:CA:1318:SER:HB3	2.17	0.43
2:CB:417:ILE:O	2:CB:420:TYR:HB3	2.18	0.43
2:CB:800:TYR:CE1	2:CB:910:THR:HG23	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:872:LYS:HD3	2:CB:872:LYS:HA	1.58	0.43
2:CB:1046:VAL:HG22	2:CB:1047:ARG:N	2.33	0.43
2:CB:1057:MET:HB2	2:CB:1097:ASP:HB2	1.99	0.43
3:CC:199:GLY:HA3	10:CJ:66:LEU:HD13	2.00	0.43
6:CF:128:LYS:NZ	6:CF:149:GLU:HA	2.34	0.43
13:CM:18:GLN:CG	13:CM:19:PRO:HD2	2.49	0.43
1:DA:507:TYR:HB3	1:DA:579:ARG:NH1	2.33	0.43
1:DA:671:GLN:HB2	2:DB:783:MET:HG2	2.00	0.43
1:DA:1191:GLN:C	1:DA:1193:VAL:H	2.20	0.43
1:DA:1264:SER:HB3	9:DI:56:PHE:HD1	1.84	0.43
9:DI:11:LEU:HB3	13:DM:29:GLY:O	2.19	0.43
10:DJ:45:CYS:O	10:DJ:49:MET:HG2	2.18	0.43
10:DJ:48:ARG:HB3	10:DJ:48:ARG:HH11	1.84	0.43
1:EA:136:LEU:HD13	1:EA:189:VAL:HG23	2.00	0.43
1:EA:515:ASN:ND2	1:EA:519:LEU:HD11	2.33	0.43
1:EA:717:PRO:HB3	1:EA:726:TRP:CZ2	2.53	0.43
1:EA:1112:PRO:HB2	1:EA:1114:TYR:CE1	2.54	0.43
1:EA:1612:LYS:HB3	1:EA:1621:PHE:CG	2.53	0.43
2:EB:140:LYS:HE2	2:EB:153:PHE:HD2	1.83	0.43
11:EK:75:ALA:O	11:EK:79:VAL:HG23	2.19	0.43
14:EN:78:THR:OG1	14:EN:89:ILE:O	2.17	0.43
1:FA:1609:SER:HA	1:FA:1612:LYS:HD2	2.00	0.43
2:FB:250:LEU:HD23	2:FB:250:LEU:HA	1.89	0.43
2:FB:863:ASP:OD2	2:FB:866:LEU:HD12	2.19	0.43
3:FC:45:SER:HB3	3:FC:53:ASN:HB3	2.00	0.43
3:FC:142:ARG:O	3:FC:144:PRO:HD3	2.19	0.43
7:FG:100:THR:C	7:FG:102:GLU:H	2.21	0.43
1:AA:76:GLN:NE2	2:AB:1111:LEU:HD12	2.23	0.43
1:AA:1196:PRO:C	1:AA:1198:THR:H	2.21	0.43
1:AA:1543:SER:OG	1:AA:1544:ASN:N	2.50	0.43
1:AA:1582:LEU:N	1:AA:1582:LEU:HD23	2.33	0.43
2:AB:547:HIS:O	2:AB:550:ARG:NH1	2.37	0.43
2:AB:703:LEU:HD23	2:AB:703:LEU:HA	1.88	0.43
2:AB:840:LEU:HD12	2:AB:857:PRO:HB2	1.99	0.43
5:AE:175:LEU:HD22	5:AE:175:LEU:HA	1.61	0.43
6:AF:98:ALA:HB2	6:AF:118:LEU:HD13	1.99	0.43
12:AL:63:ARG:HG3	12:AL:63:ARG:NH1	2.32	0.43
2:BB:850:THR:N	2:BB:882:ILE:HG13	2.22	0.43
2:BB:878:GLU:OE2	2:BB:907:ILE:HG23	2.19	0.43
7:BG:58:LEU:HD23	7:BG:58:LEU:HA	1.59	0.43
7:BG:80:VAL:O	7:BG:124:VAL:HG13	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:CA:1202:LEU:HD22	9:CI:99:LEU:CD2	2.46	0.43
1:CA:1261:VAL:O	1:CA:1498:ILE:HB	2.18	0.43
2:CB:205:MET:HB2	2:CB:502:MET:O	2.18	0.43
2:CB:262:PHE:O	2:CB:268:GLU:HG2	2.19	0.43
2:CB:965:GLU:HB3	2:CB:1031:VAL:HG22	2.00	0.43
9:CI:57:PRO:HA	9:CI:61:ARG:HG2	2.01	0.43
13:CM:16:GLN:HB3	13:CM:92:LYS:H	1.83	0.43
13:CM:81:PHE:CD1	13:CM:88:ILE:HB	2.51	0.43
1:DA:88:PRO:HB3	1:DA:435:ASN:OD1	2.19	0.43
1:DA:831:ASP:OD1	1:DA:831:ASP:N	2.43	0.43
1:DA:903:ILE:O	1:DA:907:VAL:HG23	2.18	0.43
1:DA:1323:HIS:CD2	1:DA:1454:HIS:CD2	3.05	0.43
1:DA:1463:ASP:C	1:DA:1465:GLU:N	2.71	0.43
1:DA:1612:LYS:O	1:DA:1615:TYR:N	2.46	0.43
2:DB:206:LEU:HD23	2:DB:206:LEU:HA	1.89	0.43
2:DB:306:LEU:HD23	2:DB:310:LEU:HG	1.99	0.43
2:DB:903:ILE:HD13	2:DB:905:TYR:HE1	1.83	0.43
3:DC:64:ALA:O	3:DC:67:PHE:HB2	2.19	0.43
3:DC:97:LEU:HD23	3:DC:97:LEU:HA	1.57	0.43
3:DC:209:ILE:HD13	3:DC:209:ILE:H	1.83	0.43
3:DC:269:ASP:OD1	3:DC:272:LYS:HE3	2.18	0.43
7:DG:163:PRO:HG2	7:DG:166:TRP:CD1	2.54	0.43
8:DH:88:SER:OG	8:DH:89:LEU:N	2.51	0.43
9:DI:20:PRO:C	9:DI:22:ALA:H	2.22	0.43
1:EA:10:GLU:OE2	2:EB:1176:VAL:HG23	2.19	0.43
1:EA:756:LYS:HG2	9:EI:85:LYS:CE	2.48	0.43
1:EA:780:ILE:H	1:EA:780:ILE:HG13	1.67	0.43
1:EA:966:LEU:HD12	1:EA:967:PRO:CD	2.46	0.43
1:EA:1028:GLU:OE1	1:EA:1638:SER:N	2.46	0.43
1:EA:1039:ARG:NH2	5:EE:168:TYR:O	2.51	0.43
1:EA:1094:ALA:HB1	1:EA:1135:SER:HB2	2.01	0.43
1:EA:1613:MET:HA	1:EA:1618:THR:HA	2.01	0.43
2:EB:501:ARG:HG3	2:EB:699:ILE:CD1	2.48	0.43
2:EB:532:HIS:CE1	2:EB:544:HIS:CE1	3.07	0.43
2:EB:555:GLN:NE2	2:EB:644:GLY:O	2.52	0.43
2:EB:1002:LYS:NZ	14:EN:166:LEU:HD13	2.33	0.43
3:EC:133:VAL:C	3:EC:134:LEU:HG	2.39	0.43
6:EF:98:ALA:HB2	6:EF:118:LEU:HD13	2.01	0.43
11:EK:114:VAL:O	11:EK:117:LEU:HB3	2.19	0.43
13:EM:76:TYR:CE1	14:EN:57:LYS:HG3	2.53	0.43
14:EN:75:GLU:H	14:EN:91:ASP:CG	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:EO:272:ILE:HD13	7:EO:275:ASN:N	2.26	0.43
1:FA:62:CYS:HB2	1:FA:72:CYS:SG	2.59	0.43
1:FA:87:ASN:HA	1:FA:88:PRO:HD2	1.86	0.43
1:FA:855:ARG:HH12	1:FA:867:ASP:C	2.22	0.43
1:FA:864:LEU:HD12	1:FA:875:LEU:HD13	2.00	0.43
1:FA:956:ARG:NE	1:FA:979:GLY:HA3	2.27	0.43
1:FA:1229:ALA:HB1	1:FA:1595:TYR:CD2	2.53	0.43
1:FA:1261:VAL:HA	1:FA:1265:GLU:OE2	2.18	0.43
1:FA:1450:ILE:HG22	1:FA:1457:ILE:HG21	2.00	0.43
2:FB:539:CYS:C	2:FB:541:LEU:H	2.22	0.43
2:FB:796:ARG:HD2	10:FJ:7:CYS:O	2.18	0.43
2:FB:800:TYR:CE1	2:FB:910:THR:HG23	2.54	0.43
2:FB:821:ILE:HD11	2:FB:899:GLN:OE1	2.18	0.43
2:FB:931:TRP:HA	2:FB:932:PRO:HD3	1.84	0.43
5:FE:82:PHE:CZ	5:FE:111:VAL:HG21	2.54	0.43
6:FF:119:ARG:HA	6:FF:122:MET:HG3	2.01	0.43
9:FI:94:MET:SD	9:FI:121:PHE:HE1	2.41	0.43
10:FJ:18:TRP:CD2	10:FJ:22:LEU:HD21	2.54	0.43
11:FK:52:GLN:OE1	11:FK:52:GLN:N	2.37	0.43
1:AA:476:VAL:HG21	2:AB:1091:ARG:HE	1.83	0.43
1:AA:476:VAL:HG11	2:AB:1091:ARG:O	2.18	0.43
1:AA:907:VAL:HG12	1:AA:945:CYS:SG	2.59	0.43
1:AA:934:LYS:HG3	2:AB:956:SER:HB3	2.00	0.43
1:AA:1011:VAL:HG21	2:AB:518:ARG:CD	2.49	0.43
1:AA:1202:LEU:HD11	9:AI:101:LEU:HD21	2.01	0.43
1:AA:1325:LEU:HD22	1:AA:1492:ILE:HG21	2.00	0.43
2:AB:68:ILE:HD13	2:AB:68:ILE:HA	1.70	0.43
2:AB:203:ILE:H	2:AB:203:ILE:HD12	1.84	0.43
2:AB:964:VAL:O	2:AB:966:SER:N	2.52	0.43
2:AB:1076:ARG:O	2:AB:1080:ILE:HG13	2.19	0.43
3:AC:86:PHE:CE2	3:AC:205:LYS:HE3	2.54	0.43
3:AC:210:LEU:H	3:AC:210:LEU:HD12	1.84	0.43
7:AG:40:ARG:HB2	7:AG:123:TYR:CE1	2.54	0.43
7:AG:106:LYS:HG3	7:AG:107:ILE:N	2.34	0.43
10:AJ:3:VAL:CG1	10:AJ:15:GLY:HA2	2.49	0.43
11:AK:115:ASP:O	11:AK:118:GLN:N	2.50	0.43
1:BA:399:LEU:HD13	7:BO:271:PRO:O	2.19	0.43
1:BA:783:LYS:HE3	1:BA:932:GLY:HA3	2.01	0.43
1:BA:918:LYS:O	1:BA:923:ASN:ND2	2.47	0.43
1:BA:1124:LEU:HD23	1:BA:1124:LEU:HA	1.76	0.43
1:BA:1196:PRO:HB3	1:BA:1575:ILE:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:1272:VAL:CG1	1:BA:1273:THR:H	2.28	0.43
1:BA:1490:GLU:O	1:BA:1493:CYS:HB2	2.18	0.43
2:BB:492:ASN:OD1	2:BB:494:TYR:HB2	2.19	0.43
2:BB:1018:THR:HB	2:BB:1020:GLU:OE1	2.19	0.43
4:BD:88:GLN:O	4:BD:92:ILE:HG13	2.18	0.43
5:BE:139:ALA:O	5:BE:141:VAL:N	2.51	0.43
1:CA:13:SER:OG	1:CA:1631:ARG:NH1	2.51	0.43
1:CA:641:GLU:HB2	6:CF:99:LEU:CD2	2.48	0.43
1:CA:864:LEU:HD12	1:CA:875:LEU:HD13	2.01	0.43
1:CA:1018:TYR:HD2	1:CA:1227:MET:HE1	1.84	0.43
1:CA:1262:LEU:O	1:CA:1265:GLU:HB2	2.18	0.43
1:CA:1613:MET:HA	1:CA:1618:THR:HA	2.00	0.43
2:CB:271:VAL:HB	2:CB:276:ILE:HD11	2.01	0.43
3:CC:137:ASN:CG	3:CC:203:SER:HB2	2.38	0.43
6:CF:97:ARG:HG2	6:CF:130:ILE:HD13	2.01	0.43
9:CI:86:CYS:HA	9:CI:87:PRO:HD3	1.85	0.43
12:CL:63:ARG:HH11	12:CL:63:ARG:HG3	1.84	0.43
7:CO:272:ILE:CG2	7:CO:275:ASN:HD21	2.27	0.43
7:CO:287:GLU:O	7:CO:288:ASN:C	2.57	0.43
1:DA:61:LEU:HG	1:DA:67:LEU:O	2.19	0.43
1:DA:1261:VAL:O	1:DA:1498:ILE:HB	2.19	0.43
2:DB:48:SER:C	2:DB:406:GLY:HA3	2.39	0.43
2:DB:219:ARG:HA	2:DB:220:PRO:HD2	1.85	0.43
2:DB:366:GLY:O	2:DB:367:SER:C	2.56	0.43
2:DB:551:ILE:CD1	2:DB:649:MET:HA	2.48	0.43
2:DB:845:LEU:HD12	12:DL:58:LYS:CE	2.48	0.43
2:DB:1104:CYS:SG	2:DB:1106:GLU:HB2	2.59	0.43
3:DC:54:PHE:CZ	3:DC:300:PHE:HB3	2.54	0.43
4:DD:19:PRO:HG3	7:DG:47:VAL:CG1	2.48	0.43
5:DE:213:ILE:HD13	5:DE:214:CYS:N	2.33	0.43
8:DH:46:LEU:HD23	8:DH:46:LEU:HA	1.80	0.43
8:DH:97:MET:N	8:DH:142:LEU:O	2.48	0.43
1:EA:718:THR:OG1	1:EA:730:GLN:OE1	2.36	0.43
2:EB:169:ARG:HD3	2:EB:169:ARG:HA	1.77	0.43
2:EB:571:ALA:HA	2:EB:572:PRO:HD3	1.74	0.43
2:EB:683:ASN:ND2	2:EB:683:ASN:H	2.17	0.43
2:EB:905:TYR:N	2:EB:905:TYR:CD1	2.86	0.43
2:EB:1093:LEU:HD12	2:EB:1093:LEU:HA	1.65	0.43
3:EC:71:MET:H	3:EC:71:MET:HG2	1.58	0.43
3:EC:216:HIS:ND1	3:EC:218:LYS:HD2	2.34	0.43
6:EF:129:LYS:HD3	6:EF:129:LYS:HA	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:EI:65:SER:OG	9:EI:66:VAL:N	2.50	0.43
11:EK:119:LYS:O	11:EK:123:ASP:HB2	2.18	0.43
14:EN:26:PRO:HB2	14:EN:29:PHE:CE1	2.53	0.43
14:EN:37:ASN:HD22	14:EN:38:PHE:H	1.65	0.43
14:EN:107:MET:O	14:EN:108:THR:HG23	2.19	0.43
7:EO:293:LYS:HB3	7:EO:293:LYS:NZ	2.34	0.43
1:FA:4:SER:HB2	1:FA:573:LEU:HD22	2.00	0.43
1:FA:1342:PRO:CG	2:FB:259:THR:HG22	2.48	0.43
2:FB:373:MET:O	2:FB:376:PHE:HB3	2.19	0.43
2:FB:572:PRO:HG2	13:FM:70:SER:HB2	2.00	0.43
2:FB:858:ILE:HG12	2:FB:859:CYS:N	2.33	0.43
2:FB:996:PHE:HA	2:FB:999:GLN:HG3	2.01	0.43
3:FC:163:TYR:N	3:FC:166:ASP:OD2	2.48	0.43
7:FG:43:ILE:C	7:FG:43:ILE:HD12	2.39	0.43
1:AA:34:ASN:HA	1:AA:35:PRO:HD3	1.90	0.43
1:AA:93:GLN:HG3	1:AA:1627:LEU:HD13	2.00	0.43
1:AA:467:PHE:O	1:AA:471:MET:HB2	2.19	0.43
1:AA:484:ILE:HG21	1:AA:633:MET:HG3	2.00	0.43
1:AA:1240:LEU:HD11	1:AA:1529:MET:SD	2.58	0.43
2:AB:409:TYR:O	2:AB:413:LEU:HB2	2.19	0.43
2:AB:885:VAL:O	12:AL:57:LEU:HB3	2.19	0.43
4:AD:14:THR:OG1	4:AD:16:LEU:HB2	2.18	0.43
5:AE:178:ILE:HD12	5:AE:179:GLN:N	2.34	0.43
11:AK:114:VAL:O	11:AK:117:LEU:HB3	2.19	0.43
13:AM:10:ILE:HD12	14:AN:70:LEU:O	2.18	0.43
14:AN:155:VAL:HG13	14:AN:156:PRO:HD2	2.00	0.43
1:BA:124:LEU:HD12	1:BA:133:SER:HA	2.01	0.43
1:BA:380:ASN:O	1:BA:383:ASN:HB2	2.19	0.43
1:BA:457:LYS:C	1:BA:459:ALA:H	2.22	0.43
1:BA:588:LEU:HD12	1:BA:588:LEU:HA	1.88	0.43
1:BA:756:LYS:HE3	1:BA:759:TYR:HE2	1.83	0.43
1:BA:1247:SER:OG	1:BA:1248:ASP:N	2.51	0.43
1:BA:1446:ARG:HH12	1:BA:1462:PHE:HB3	1.84	0.43
1:BA:1566:ILE:HG13	1:BA:1566:ILE:H	1.23	0.43
2:BB:561:ILE:HB	2:BB:562:PRO:HD3	2.01	0.43
2:BB:1043:LYS:HG2	2:BB:1063:ARG:HG2	2.01	0.43
3:BC:45:SER:HG	3:BC:271:ARG:HH22	1.58	0.43
3:BC:240:LYS:HB2	3:BC:240:LYS:HE3	1.89	0.43
7:BG:165:ASP:OD2	7:BG:220:SER:HA	2.18	0.43
8:BH:88:SER:OG	8:BH:89:LEU:N	2.52	0.43
10:BJ:45:CYS:O	10:BJ:49:MET:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:BM:77:VAL:O	14:BN:55:LEU:HD12	2.18	0.43
1:CA:616:LEU:HD12	1:CA:617:HIS:N	2.34	0.43
1:CA:657:TYR:O	1:CA:665:PRO:HA	2.18	0.43
1:CA:1474:LEU:HD22	1:CA:1474:LEU:HA	1.86	0.43
1:CA:1617:THR:O	1:CA:1617:THR:OG1	2.36	0.43
2:CB:260:PHE:O	2:CB:270:LEU:HA	2.19	0.43
2:CB:262:PHE:CD1	2:CB:357:ILE:HG12	2.54	0.43
2:CB:293:ILE:HD12	2:CB:302:LEU:HB3	2.01	0.43
3:CC:41:GLU:O	3:CC:57:ILE:HD12	2.19	0.43
4:CD:89:LEU:O	4:CD:92:ILE:N	2.39	0.43
8:CH:47:PHE:O	8:CH:49:VAL:HG23	2.19	0.43
1:DA:912:VAL:HA	1:DA:913:PRO:HA	1.77	0.43
1:DA:1244:ASN:HA	1:DA:1517:ARG:HH11	1.83	0.43
1:DA:1271:ILE:HG22	9:DI:48:VAL:HG12	2.01	0.43
1:DA:1556:GLU:HG3	5:DE:153:HIS:NE2	2.33	0.43
2:DB:47:GLY:HA2	2:DB:50:ASN:HD22	1.84	0.43
2:DB:467:THR:HB	2:DB:469:ASN:ND2	2.28	0.43
2:DB:662:ASP:O	2:DB:663:ILE:HB	2.18	0.43
2:DB:870:LYS:HE2	2:DB:870:LYS:HB2	1.56	0.43
2:DB:944:GLN:HA	2:DB:945:PRO:HD3	1.74	0.43
3:DC:230:LEU:O	3:DC:294:VAL:HG23	2.19	0.43
6:DF:67:LYS:O	6:DF:71:GLU:HG3	2.19	0.43
14:DN:56:ILE:HG22	14:DN:57:LYS:H	1.84	0.43
14:DN:72:VAL:HG22	14:DN:137:PHE:CE1	2.53	0.43
1:EA:1229:ALA:HB1	1:EA:1595:TYR:CD2	2.54	0.43
1:EA:1457:ILE:HA	1:EA:1474:LEU:CD2	2.49	0.43
1:EA:1458:THR:HG23	1:EA:1473:LYS:O	2.18	0.43
1:EA:1516:LYS:O	1:EA:1518:VAL:HB	2.19	0.43
2:EB:14:ALA:HB2	2:EB:980:ASP:HB2	2.00	0.43
2:EB:203:ILE:CD1	2:EB:203:ILE:H	2.27	0.43
2:EB:637:TYR:HA	2:EB:638:PRO:HD3	1.80	0.43
2:EB:895:PHE:O	2:EB:896:GLN:C	2.56	0.43
3:EC:131:THR:HG23	3:EC:209:ILE:HG22	2.01	0.43
3:EC:312:GLU:O	3:EC:315:PHE:N	2.52	0.43
7:EG:73:TYR:CD2	7:EG:238:THR:HB	2.53	0.43
1:FA:90:PHE:CE1	1:FA:1623:THR:HG23	2.54	0.43
1:FA:939:ASN:O	1:FA:942:GLN:HB2	2.18	0.43
1:FA:947:LEU:HB2	1:FA:982:VAL:HG21	1.99	0.43
1:FA:1072:ASN:O	1:FA:1075:ALA:N	2.51	0.43
1:FA:1344:ILE:H	1:FA:1344:ILE:HD12	1.83	0.43
2:FB:216:ALA:C	2:FB:217:ILE:HD12	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:260:PHE:HD1	2:FB:260:PHE:C	2.22	0.43
2:FB:683:ASN:ND2	2:FB:683:ASN:H	2.16	0.43
2:FB:800:TYR:CD1	2:FB:910:THR:HG23	2.54	0.43
2:FB:1110:ILE:HD13	2:FB:1111:LEU:CD2	2.48	0.43
2:FB:1136:GLU:H	2:FB:1136:GLU:HG3	1.36	0.43
3:FC:131:THR:HG23	3:FC:209:ILE:HG22	2.01	0.43
8:FH:9:ILE:HD13	8:FH:56:THR:HG23	2.00	0.43
8:FH:47:PHE:O	8:FH:49:VAL:HG23	2.19	0.43
8:FH:57:VAL:HG13	8:FH:144:ILE:CG1	2.44	0.43
10:FJ:26:GLN:OE1	10:FJ:26:GLN:HA	2.18	0.43
1:AA:395:LEU:HD21	7:AO:280:PHE:CE2	2.53	0.43
1:AA:758:GLU:O	1:AA:761:GLY:N	2.39	0.43
1:AA:1067:GLU:C	1:AA:1069:CYS:N	2.72	0.43
1:AA:1472:PHE:O	1:AA:1473:LYS:HB3	2.17	0.43
2:AB:219:ARG:HA	2:AB:220:PRO:HD2	1.83	0.43
3:AC:209:ILE:HD13	3:AC:209:ILE:H	1.84	0.43
7:AG:92:ALA:O	7:AG:94:PRO:HD3	2.18	0.43
9:AI:23:VAL:HB	9:AI:39:LYS:HE3	2.01	0.43
1:BA:88:PRO:HB3	1:BA:435:ASN:OD1	2.19	0.43
1:BA:223:PHE:CZ	1:BA:227:LEU:HD21	2.54	0.43
1:BA:313:THR:HG22	1:BA:314:TYR:N	2.34	0.43
1:BA:498:PRO:O	1:BA:501:PHE:HB2	2.19	0.43
1:BA:1227:MET:HE2	1:BA:1227:MET:HB3	1.67	0.43
1:BA:1238:MET:SD	1:BA:1524:VAL:HA	2.59	0.43
2:BB:295:ASN:CB	14:BN:104:LEU:HD13	2.47	0.43
2:BB:1006:ASN:HD22	3:BC:277:ARG:HB2	1.84	0.43
1:CA:121:LYS:HE3	1:CA:219:LEU:HD22	2.01	0.43
1:CA:369:LEU:HD12	2:CB:1054:SER:HB2	2.01	0.43
1:CA:913:PRO:HB3	1:CA:926:GLN:OE1	2.19	0.43
2:CB:196:VAL:HG13	2:CB:462:GLN:HG2	2.00	0.43
3:CC:54:PHE:CZ	3:CC:300:PHE:HB3	2.54	0.43
5:CE:48:ASP:OD1	5:CE:48:ASP:N	2.51	0.43
13:CM:16:GLN:CG	13:CM:17:ASP:H	2.30	0.43
1:DA:76:GLN:H	1:DA:76:GLN:HG2	1.59	0.43
1:DA:122:LEU:O	1:DA:126:GLN:HG3	2.18	0.43
1:DA:127:TYR:CE2	1:DA:193:ILE:HD13	2.54	0.43
1:DA:644:ARG:NH2	6:DF:118:LEU:HD23	2.34	0.43
1:DA:715:LEU:HD22	1:DA:715:LEU:HA	1.87	0.43
1:DA:1658:ALA:O	7:DG:104:LEU:HA	2.19	0.43
2:DB:125:GLU:O	2:DB:129:ARG:HB2	2.19	0.43
2:DB:220:PRO:O	2:DB:223:ALA:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:315:LYS:HG3	2:DB:316:ARG:N	2.34	0.43
2:DB:642:LEU:HD22	2:DB:642:LEU:HA	1.77	0.43
2:DB:949:ILE:HG13	2:DB:950:ASN:N	2.34	0.43
2:DB:1026:ILE:CD1	2:DB:1028:VAL:HG13	2.46	0.43
3:DC:121:PRO:O	3:DC:125:LYS:HB2	2.18	0.43
3:DC:128:ASP:HB2	3:DC:129:GLU:H	1.74	0.43
3:DC:197:ARG:HG2	10:DJ:61:LEU:HB3	1.99	0.43
5:DE:176:PRO:HB2	5:DE:212:ARG:NE	2.34	0.43
13:DM:16:GLN:CG	13:DM:17:ASP:H	2.30	0.43
14:DN:118:SER:O	14:DN:119:LEU:HD23	2.19	0.43
1:EA:76:GLN:HB3	1:EA:364:PRO:HD3	2.01	0.43
1:EA:1108:HIS:ND1	1:EA:1117:SER:HB3	2.33	0.43
1:EA:1191:GLN:C	1:EA:1193:VAL:H	2.21	0.43
2:EB:196:VAL:HG13	2:EB:462:GLN:HG2	2.01	0.43
6:EF:138:LEU:HB3	6:EF:140:ASP:OD1	2.18	0.43
7:EG:111:THR:HB	7:EG:112:PRO:HD2	2.01	0.43
1:FA:505:LEU:HD23	1:FA:505:LEU:HA	1.71	0.43
1:FA:644:ARG:NH2	6:FF:118:LEU:HD23	2.34	0.43
1:FA:709:ARG:C	1:FA:711:LYS:H	2.18	0.43
1:FA:1025:LYS:HE3	1:FA:1638:SER:OG	2.19	0.43
1:FA:1585:ILE:H	1:FA:1585:ILE:HG12	1.11	0.43
2:FB:202:LEU:HD13	2:FB:500:PHE:CE2	2.53	0.43
3:FC:225:ALA:HB2	3:FC:302:VAL:HG13	2.00	0.43
5:FE:198:ILE:HD11	5:FE:212:ARG:CG	2.44	0.43
7:FG:87:LEU:HA	7:FG:120:VAL:HG23	2.01	0.43
13:FM:9:GLU:HG2	14:FN:70:LEU:O	2.19	0.43
13:FM:10:ILE:HD13	14:FN:70:LEU:HG	2.00	0.43
1:AA:481:ARG:HA	1:AA:633:MET:O	2.19	0.43
1:AA:552:GLU:OE2	1:AA:552:GLU:N	2.51	0.43
1:AA:719:ILE:O	1:AA:724:PRO:HA	2.18	0.43
1:AA:803:PRO:O	1:AA:806:ALA:HB3	2.19	0.43
1:AA:1202:LEU:HD21	9:AI:101:LEU:CD2	2.49	0.43
2:AB:14:ALA:HB2	2:AB:980:ASP:CB	2.48	0.43
2:AB:474:SER:C	2:AB:476:LEU:N	2.72	0.43
2:AB:1026:ILE:O	2:AB:1026:ILE:HG13	2.17	0.43
2:AB:1046:VAL:HG22	2:AB:1047:ARG:N	2.34	0.43
3:AC:80:ALA:HA	3:AC:208:CYS:HB3	2.00	0.43
3:AC:97:LEU:O	3:AC:100:ARG:HB2	2.19	0.43
3:AC:216:HIS:O	3:AC:218:LYS:N	2.52	0.43
6:AF:86:THR:HG23	6:AF:89:GLU:OE1	2.19	0.43
7:AG:80:VAL:O	7:AG:124:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:221:ASN:OD1	7:AG:221:ASN:N	2.52	0.43
8:AH:12:VAL:HA	8:AH:28:ALA:HB2	2.01	0.43
9:AI:23:VAL:HG21	9:AI:28:VAL:HG22	2.00	0.43
1:BA:121:LYS:HE3	1:BA:219:LEU:HD13	2.01	0.43
1:BA:431:GLN:O	1:BA:435:ASN:ND2	2.52	0.43
1:BA:741:PRO:HA	1:BA:742:PRO:HD3	1.88	0.43
1:BA:1168:ALA:O	1:BA:1171:GLN:N	2.52	0.43
2:BB:703:LEU:HD21	2:BB:757:TYR:HD2	1.84	0.43
2:BB:1053:ASN:HD22	2:BB:1054:SER:H	1.65	0.43
3:BC:70:ILE:O	3:BC:72:ILE:N	2.51	0.43
3:BC:116:VAL:HG22	3:BC:130:ASN:OD1	2.19	0.43
1:CA:132:GLU:OE2	1:CA:201:ARG:NH2	2.51	0.43
1:CA:432:ASN:HA	1:CA:435:ASN:HD22	1.83	0.43
1:CA:507:TYR:OH	1:CA:641:GLU:N	2.52	0.43
1:CA:507:TYR:HA	1:CA:508:PRO:HD2	1.87	0.43
1:CA:882:ILE:HD11	9:CI:67:VAL:HG11	1.99	0.43
1:CA:985:ARG:HG2	1:CA:988:SER:H	1.83	0.43
1:CA:1493:CYS:C	1:CA:1495:LYS:H	2.22	0.43
1:CA:1611:MET:O	1:CA:1614:SER:OG	2.34	0.43
2:CB:290:ASP:C	2:CB:292:ILE:H	2.22	0.43
2:CB:704:THR:HA	2:CB:705:PRO:HD2	1.88	0.43
2:CB:774:ALA:HA	2:CB:1028:VAL:HG12	1.99	0.43
5:CE:55:ARG:HB3	5:CE:82:PHE:HB3	2.01	0.43
7:CG:58:LEU:HD23	7:CG:58:LEU:HA	1.67	0.43
7:CG:80:VAL:HG12	7:CG:82:LEU:HD23	2.01	0.43
7:CG:163:PRO:HG2	7:CG:166:TRP:CD1	2.54	0.43
12:CL:30:ILE:HD12	12:CL:59:ALA:HB2	2.00	0.43
14:CN:58:PHE:HA	14:CN:139:VAL:CG2	2.48	0.43
1:DA:50:TYR:OH	1:DA:370:PRO:HG3	2.19	0.43
1:DA:488:PRO:HD2	2:DB:781:TYR:CZ	2.54	0.43
1:DA:985:ARG:HG3	1:DA:987:TYR:H	1.84	0.43
1:DA:1021:ARG:HH12	1:DA:1615:TYR:HA	1.84	0.43
1:DA:1062:HIS:HD2	1:DA:1068:PHE:CD1	2.37	0.43
1:DA:1114:TYR:O	5:DE:152:LYS:NZ	2.50	0.43
2:DB:210:ARG:HH21	2:DB:667:PHE:HB2	1.84	0.43
2:DB:1153:ILE:CD1	2:DB:1154:ASP:H	2.31	0.43
3:DC:67:PHE:HE1	3:DC:318:VAL:HA	1.84	0.43
3:DC:201:GLU:C	3:DC:202:ILE:HD12	2.39	0.43
7:DG:168:PHE:HD1	7:DG:217:TRP:CE2	2.37	0.43
9:DI:20:PRO:O	9:DI:22:ALA:N	2.50	0.43
13:DM:80:LEU:HD12	13:DM:91:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1217:LEU:HD13	1:EA:1573:TYR:CE1	2.51	0.43
2:EB:163:VAL:HG12	2:EB:164:MET:N	2.34	0.43
2:EB:290:ASP:C	2:EB:292:ILE:H	2.22	0.43
2:EB:412:ILE:O	2:EB:416:LYS:HG2	2.18	0.43
2:EB:434:ARG:HD3	7:FG:226:ASP:O	2.18	0.43
2:EB:1026:ILE:O	2:EB:1026:ILE:HG13	2.19	0.43
2:EB:1125:THR:HG22	2:EB:1126:VAL:H	1.84	0.43
3:EC:209:ILE:HG12	3:EC:210:LEU:N	2.34	0.43
5:EE:106:GLN:O	5:EE:131:THR:HG23	2.19	0.43
14:EN:155:VAL:HG13	14:EN:156:PRO:HD2	2.01	0.43
7:EO:266:GLN:O	7:EO:267:ALA:C	2.56	0.43
1:FA:197:LEU:HD21	1:FA:203:THR:O	2.19	0.43
1:FA:718:THR:HG22	8:FH:98:TYR:O	2.19	0.43
1:FA:1102:LEU:HD12	1:FA:1105:ARG:HE	1.83	0.43
2:FB:184:LYS:HE2	2:FB:735:HIS:CD2	2.54	0.43
2:FB:625:GLU:HB2	2:FB:643:PHE:O	2.18	0.43
2:FB:903:ILE:HD13	2:FB:905:TYR:HE1	1.83	0.43
7:FG:97:LYS:H	7:FG:97:LYS:HG3	1.52	0.43
10:FJ:3:VAL:HG12	10:FJ:15:GLY:HA2	2.01	0.43
1:AA:3:ILE:H	1:AA:3:ILE:HG12	1.57	0.42
1:AA:253:GLU:O	1:AA:312:SER:HA	2.19	0.42
1:AA:1314:GLN:HG3	1:AA:1315:ASN:N	2.34	0.42
2:AB:260:PHE:CD1	2:AB:260:PHE:C	2.92	0.42
2:AB:467:THR:HB	2:AB:469:ASN:ND2	2.31	0.42
2:AB:561:ILE:HB	2:AB:562:PRO:HD3	2.01	0.42
2:AB:1111:LEU:HD23	2:AB:1111:LEU:H	1.84	0.42
3:AC:81:GLU:OE1	12:AL:70:ARG:NH1	2.52	0.42
5:AE:93:MET:O	5:AE:97:VAL:HG23	2.19	0.42
7:AG:235:ASN:HB3	7:AG:246:ASP:HB3	2.01	0.42
11:AK:59:THR:HA	11:AK:107:THR:HG23	2.01	0.42
14:AN:55:LEU:HB3	14:AN:136:VAL:CG2	2.48	0.42
1:BA:475:ARG:HB3	1:BA:475:ARG:HH11	1.84	0.42
1:BA:703:GLU:CD	1:BA:703:GLU:H	2.22	0.42
1:BA:892:LEU:HG	1:BA:893:ASP:OD1	2.19	0.42
1:BA:1263:LEU:HA	1:BA:1263:LEU:HD12	1.87	0.42
2:BB:328:GLN:NE2	13:BM:111:PRO:O	2.51	0.42
2:BB:615:GLY:C	2:BB:617:THR:H	2.23	0.42
2:BB:848:ILE:HD12	2:BB:885:VAL:CG2	2.49	0.42
2:BB:858:ILE:HG12	2:BB:872:LYS:O	2.19	0.42
3:BC:81:GLU:OE1	3:BC:81:GLU:HA	2.18	0.42
5:BE:28:TYR:HA	5:BE:64:PRO:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:BG:39:VAL:HB	7:BG:126:GLN:HE21	1.83	0.42
8:BH:5:LEU:O	8:BH:6:PHE:HB2	2.18	0.42
8:BH:128:ASN:OD1	8:BH:130:ARG:HB2	2.19	0.42
1:CA:457:LYS:C	1:CA:459:ALA:H	2.23	0.42
1:CA:530:TRP:CZ2	1:CA:582:LYS:HA	2.53	0.42
2:CB:22:GLU:O	2:CB:26:ILE:HG13	2.18	0.42
2:CB:54:GLU:HB3	2:CB:55:GLY:H	1.56	0.42
2:CB:504:HIS:HB3	2:CB:542:LEU:HD23	2.00	0.42
2:CB:858:ILE:HG12	2:CB:872:LYS:O	2.19	0.42
2:CB:878:GLU:OE2	2:CB:907:ILE:HG23	2.19	0.42
2:CB:894:LYS:HB2	2:CB:894:LYS:HE3	1.84	0.42
2:CB:909:ARG:O	2:CB:1035:ARG:NH2	2.44	0.42
2:CB:1086:PHE:O	2:CB:1089:GLN:N	2.52	0.42
3:CC:87:ASN:OD1	3:CC:88:ASN:N	2.52	0.42
3:CC:133:VAL:C	3:CC:134:LEU:HG	2.38	0.42
3:CC:140:CYS:HB2	3:CC:196:LEU:HD13	2.02	0.42
6:CF:118:LEU:HD13	6:CF:118:LEU:HA	1.82	0.42
7:CG:39:VAL:HB	7:CG:126:GLN:HE21	1.83	0.42
7:CG:162:ILE:HG13	7:CG:162:ILE:H	1.64	0.42
8:CH:101:ALA:HB2	8:CH:116:TYR:CE1	2.53	0.42
13:CM:12:ILE:HA	13:CM:88:ILE:HG23	2.01	0.42
14:CN:171:PHE:CD1	14:CN:180:PHE:HE2	2.36	0.42
1:DA:342:ARG:CZ	1:DA:342:ARG:HB2	2.48	0.42
1:DA:380:ASN:O	1:DA:383:ASN:HB2	2.19	0.42
1:DA:646:GLU:C	1:DA:648:LEU:H	2.22	0.42
1:DA:678:VAL:HG22	1:DA:781:LEU:O	2.19	0.42
1:DA:756:LYS:HE3	1:DA:759:TYR:HE2	1.84	0.42
1:DA:780:ILE:H	1:DA:780:ILE:HG13	1.75	0.42
1:DA:830:MET:CB	2:DB:1008:HIS:HB3	2.49	0.42
1:DA:1003:ARG:NH1	2:DB:520:LEU:HD22	2.34	0.42
1:DA:1237:GLN:H	1:DA:1544:ASN:CB	2.30	0.42
2:DB:61:LEU:O	2:DB:64:GLY:N	2.51	0.42
2:DB:362:LEU:HD23	2:DB:362:LEU:HA	1.75	0.42
2:DB:732:ALA:O	2:DB:736:ARG:HG3	2.19	0.42
2:DB:785:ASP:HB3	2:DB:957:ARG:HH22	1.84	0.42
2:DB:887:LEU:HD13	12:DL:56:LEU:O	2.19	0.42
7:DG:40:ARG:HB2	7:DG:123:TYR:CE1	2.53	0.42
7:DG:60:GLY:O	7:DG:64:GLN:HB2	2.19	0.42
11:DK:115:ASP:O	11:DK:118:GLN:N	2.52	0.42
13:DM:76:TYR:CE1	14:DN:57:LYS:HG3	2.54	0.42
14:DN:124:THR:C	14:DN:126:LYS:H	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DO:266:GLN:O	7:DO:268:GLU:N	2.52	0.42
1:EA:1033:SER:O	1:EA:1181:PRO:HB3	2.19	0.42
1:EA:1164:LYS:O	1:EA:1167:ARG:HB3	2.19	0.42
2:EB:296:ASP:C	2:EB:298:LYS:N	2.72	0.42
2:EB:696:ILE:HG13	2:EB:696:ILE:H	1.73	0.42
2:EB:844:GLY:HA2	2:EB:860:ALA:HB3	2.01	0.42
3:EC:61:THR:HA	3:EC:298:PHE:CZ	2.54	0.42
11:EK:138:LYS:O	11:EK:142:MET:HB2	2.19	0.42
13:EM:12:ILE:HA	13:EM:88:ILE:HG23	2.00	0.42
7:EO:304:ASN:HD22	7:EO:306:SER:HB2	1.83	0.42
1:FA:17:GLY:O	2:FB:1194:ILE:HA	2.19	0.42
1:FA:674:ILE:HG12	1:FA:783:LYS:HB2	2.00	0.42
1:FA:780:ILE:H	1:FA:780:ILE:HG13	1.67	0.42
1:FA:1003:ARG:NH2	2:FB:533:THR:HG21	2.34	0.42
1:FA:1526:PHE:O	1:FA:1528:ALA:N	2.52	0.42
2:FB:90:TYR:CD1	2:FB:91:LEU:N	2.86	0.42
2:FB:141:LEU:HD23	2:FB:450:LEU:HD11	2.00	0.42
2:FB:420:TYR:CE1	2:FB:424:ILE:HD11	2.54	0.42
2:FB:570:VAL:HG13	2:FB:596:VAL:HG13	1.99	0.42
2:FB:608:LEU:O	2:FB:612:LYS:N	2.44	0.42
3:FC:172:GLN:H	3:FC:175:GLN:CD	2.22	0.42
10:FJ:36:LEU:HD11	10:FJ:51:LEU:HB2	2.01	0.42
7:FO:308:ILE:HD13	7:FO:308:ILE:HA	1.72	0.42
1:AA:11:ILE:HD12	1:AA:11:ILE:O	2.19	0.42
1:AA:549:MET:SD	1:AA:553:GLN:NE2	2.92	0.42
1:AA:671:GLN:CA	2:AB:952:HIS:HD2	2.33	0.42
1:AA:695:TYR:HE1	1:AA:820:TYR:HA	1.83	0.42
1:AA:865:ASP:HB3	1:AA:868:THR:OG1	2.19	0.42
1:AA:1130:ALA:HB1	6:AF:82:THR:HB	2.00	0.42
1:AA:1193:VAL:O	1:AA:1196:PRO:HD2	2.19	0.42
2:AB:692:THR:HB	2:AB:693:PRO:HD2	2.00	0.42
2:AB:768:GLY:C	2:AB:769:PHE:CD2	2.92	0.42
3:AC:73:SER:O	3:AC:212:ILE:HD13	2.19	0.42
5:AE:127:ILE:HD11	5:AE:132:ILE:CD1	2.48	0.42
6:AF:75:PRO:HG2	6:AF:78:GLN:OE1	2.19	0.42
14:AN:131:LEU:HG	14:AN:132:GLN:N	2.34	0.42
1:BA:509:GLU:HA	1:BA:510:PRO:HD3	1.83	0.42
1:BA:713:VAL:HG12	1:BA:714:THR:H	1.82	0.42
1:BA:785:GLN:HB3	1:BA:793:ILE:HG22	2.01	0.42
1:BA:852:ASP:OD1	1:BA:855:ARG:NE	2.49	0.42
1:BA:1582:LEU:N	1:BA:1582:LEU:HD23	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:547:HIS:NE2	2:BB:694:THR:O	2.52	0.42
2:BB:551:ILE:CD1	2:BB:649:MET:HA	2.49	0.42
2:BB:699:ILE:HD13	2:BB:699:ILE:N	2.31	0.42
2:BB:895:PHE:O	2:BB:896:GLN:C	2.58	0.42
3:BC:67:PHE:O	3:BC:71:MET:HG2	2.18	0.42
3:BC:321:LEU:HD23	11:BK:128:CYS:HB3	2.00	0.42
5:BE:47:CYS:SG	5:BE:53:PRO:HA	2.59	0.42
5:BE:82:PHE:CZ	5:BE:111:VAL:HG21	2.54	0.42
7:BG:41:VAL:HA	7:BG:42:PRO:HD3	1.84	0.42
1:CA:3:ILE:HA	7:CG:111:THR:HG22	2.00	0.42
1:CA:257:ASN:O	1:CA:261:ILE:HG13	2.19	0.42
1:CA:1055:ILE:HD13	1:CA:1055:ILE:HA	1.92	0.42
1:CA:1647:ASN:HD22	1:CA:1648:ASN:N	2.17	0.42
2:CB:74:PHE:HB2	2:CB:91:LEU:HB3	2.01	0.42
2:CB:242:ASP:OD2	2:CB:414:LYS:NZ	2.44	0.42
2:CB:280:LEU:O	2:CB:323:ARG:NH2	2.52	0.42
2:CB:547:HIS:NE2	2:CB:694:THR:O	2.51	0.42
7:CG:163:PRO:HG2	7:CG:166:TRP:NE1	2.34	0.42
14:CN:55:LEU:C	14:CN:56:ILE:HG13	2.40	0.42
1:DA:32:ILE:HG21	1:DA:49:LEU:HD23	2.00	0.42
1:DA:340:HIS:HB3	1:DA:342:ARG:O	2.20	0.42
1:DA:366:ARG:HG3	1:DA:367:PHE:CD1	2.54	0.42
1:DA:543:LEU:HA	1:DA:543:LEU:HD23	1.78	0.42
1:DA:717:PRO:HB3	1:DA:726:TRP:CZ2	2.54	0.42
1:DA:748:ASN:N	1:DA:748:ASN:ND2	2.60	0.42
1:DA:1660:VAL:HA	1:DA:1661:PRO:HD3	1.90	0.42
2:DB:70:GLU:HG2	2:DB:97:VAL:C	2.39	0.42
2:DB:1103:VAL:CG1	2:DB:1110:ILE:HG22	2.50	0.42
3:DC:227:TYR:HA	3:DC:299:ILE:O	2.19	0.42
5:DE:120:ALA:O	5:DE:123:LEU:HB2	2.20	0.42
9:DI:111:PHE:HA	9:DI:121:PHE:O	2.20	0.42
11:DK:80:ILE:H	11:DK:80:ILE:HG13	1.67	0.42
14:DN:110:LEU:HB3	14:DN:119:LEU:HB3	2.00	0.42
1:EA:81:LEU:C	1:EA:83:VAL:H	2.21	0.42
1:EA:380:ASN:HA	7:EO:312:GLU:OE1	2.19	0.42
1:EA:480:ALA:CB	2:EB:1046:VAL:HA	2.49	0.42
1:EA:907:VAL:HG12	1:EA:945:CYS:SG	2.59	0.42
1:EA:1097:TYR:HD2	1:EA:1123:VAL:HG13	1.84	0.42
1:EA:1314:GLN:HG3	1:EA:1315:ASN:N	2.34	0.42
1:EA:1325:LEU:HD22	1:EA:1492:ILE:HG21	2.01	0.42
2:EB:46:ILE:HG22	2:EB:50:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:295:ASN:HB3	14:EN:104:LEU:HD13	2.01	0.42
2:EB:501:ARG:HH21	2:EB:545:PHE:HB2	1.84	0.42
2:EB:529:CYS:SG	2:EB:530:PRO:HD2	2.59	0.42
2:EB:887:LEU:HD13	12:EL:56:LEU:O	2.19	0.42
4:ED:93:GLN:HG3	4:ED:94:ARG:N	2.33	0.42
7:EG:38:ILE:H	7:EG:38:ILE:HG13	1.29	0.42
11:EK:52:GLN:OE1	11:EK:52:GLN:N	2.39	0.42
12:EL:64:LEU:HD12	12:EL:65:VAL:N	2.34	0.42
13:EM:80:LEU:HD22	14:EN:51:GLN:OE1	2.18	0.42
13:EM:81:PHE:CD1	13:EM:88:ILE:HB	2.52	0.42
1:FA:507:TYR:HB2	1:FA:637:PHE:CZ	2.54	0.42
1:FA:545:SER:C	1:FA:547:ILE:H	2.22	0.42
1:FA:554:ARG:O	1:FA:556:ALA:N	2.51	0.42
3:FC:197:ARG:HB3	3:FC:198:PRO:HD2	2.00	0.42
5:FE:32:GLN:O	5:FE:35:VAL:HB	2.18	0.42
12:FL:61:THR:O	12:FL:63:ARG:N	2.52	0.42
1:AA:1490:GLU:O	1:AA:1493:CYS:HB2	2.19	0.42
2:AB:381:LEU:O	2:AB:385:VAL:HG23	2.20	0.42
3:AC:223:SER:OG	10:AJ:12:LYS:HA	2.18	0.42
5:AE:164:LEU:HD12	5:AE:164:LEU:HA	1.87	0.42
9:AI:10:CYS:HB2	9:AI:17:LEU:HD21	2.00	0.42
10:AJ:66:LEU:HA	12:AL:35:SER:OG	2.18	0.42
14:AN:171:PHE:CD1	14:AN:180:PHE:HE2	2.37	0.42
1:BA:11:ILE:HD11	1:BA:1643:VAL:HG11	2.00	0.42
1:BA:719:ILE:HG22	1:BA:725:LEU:H	1.84	0.42
1:BA:722:PRO:HG2	8:BH:46:LEU:HD13	2.00	0.42
1:BA:808:LYS:O	1:BA:811:SER:N	2.52	0.42
1:BA:831:ASP:OD1	1:BA:831:ASP:N	2.44	0.42
2:BB:70:GLU:CD	2:BB:96:SER:HB2	2.39	0.42
2:BB:288:ILE:HG22	2:BB:289:PHE:N	2.34	0.42
2:BB:351:GLN:O	2:BB:354:LEU:N	2.51	0.42
2:BB:566:TYR:HB3	13:BM:74:ASN:OD1	2.20	0.42
2:BB:611:TRP:C	2:BB:620:LEU:HD21	2.39	0.42
2:BB:744:LEU:HD12	2:BB:745:GLN:N	2.34	0.42
2:BB:1178:ILE:HB	2:BB:1182:LEU:HD23	2.00	0.42
9:BI:58:SER:H	9:BI:61:ARG:HB3	1.84	0.42
11:BK:69:ASP:HB2	11:BK:70:HIS:H	1.71	0.42
1:CA:659:THR:HG22	1:CA:666:VAL:HG22	2.00	0.42
1:CA:732:ILE:H	1:CA:732:ILE:HG12	1.27	0.42
1:CA:1226:VAL:HG12	1:CA:1227:MET:N	2.34	0.42
1:CA:1303:SER:O	1:CA:1307:ASP:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:137:LEU:HD23	2:CB:161:LEU:HD23	2.00	0.42
2:CB:572:PRO:HG2	13:CM:70:SER:HB2	2.01	0.42
2:CB:783:MET:O	2:CB:784:ASP:C	2.57	0.42
2:CB:994:ASP:OD1	2:CB:994:ASP:N	2.51	0.42
2:CB:1000:LEU:HD13	2:CB:1009:GLY:HA2	2.02	0.42
3:CC:70:ILE:HG21	3:CC:317:SER:HA	2.01	0.42
3:CC:128:ASP:C	3:CC:130:ASN:N	2.73	0.42
3:CC:131:THR:HG22	3:CC:132:ILE:H	1.85	0.42
3:CC:195:LYS:HB2	10:CJ:57:ILE:CD1	2.50	0.42
3:CC:216:HIS:ND1	3:CC:218:LYS:HD2	2.34	0.42
4:CD:22:ILE:HG23	7:CG:44:ALA:O	2.18	0.42
6:CF:60:GLN:O	6:CF:64:ILE:HG13	2.20	0.42
7:CG:50:ALA:HB1	7:CG:52:MET:HG2	2.01	0.42
8:CH:42:ILE:HD13	8:CH:95:TYR:HE2	1.83	0.42
11:CK:47:ILE:HD11	11:CK:63:PHE:HB3	2.00	0.42
1:DA:70:LYS:HE2	1:DA:71:PHE:CE1	2.53	0.42
1:DA:141:LEU:HG	1:DA:142:GLY:N	2.28	0.42
1:DA:703:GLU:CD	1:DA:703:GLU:H	2.23	0.42
1:DA:772:LYS:HE3	1:DA:772:LYS:HB3	1.85	0.42
1:DA:1056:ASP:OD1	1:DA:1058:THR:HG23	2.20	0.42
1:DA:1257:SER:HA	1:DA:1499:ARG:NH2	2.34	0.42
1:DA:1527:GLN:HA	1:DA:1530:TRP:CE3	2.54	0.42
2:DB:161:LEU:HD12	2:DB:162:PRO:CD	2.42	0.42
3:DC:86:PHE:O	3:DC:87:ASN:HB2	2.19	0.42
3:DC:100:ARG:HH12	3:DC:193:LEU:CA	2.33	0.42
3:DC:254:GLY:O	3:DC:268:LYS:HB2	2.19	0.42
8:DH:80:ARG:HB2	11:DK:108:TYR:HE1	1.84	0.42
1:EA:37:VAL:HG22	1:EA:49:LEU:HB2	2.02	0.42
1:EA:111:LYS:O	1:EA:115:VAL:HG23	2.19	0.42
1:EA:369:LEU:HD23	1:EA:369:LEU:HA	1.82	0.42
1:EA:507:TYR:HB3	1:EA:579:ARG:NH1	2.35	0.42
1:EA:530:TRP:CZ2	1:EA:607:VAL:HG21	2.53	0.42
1:EA:949:GLN:HB2	1:EA:981:TYR:HD1	1.84	0.42
1:EA:1237:GLN:HB2	1:EA:1544:ASN:HB2	2.02	0.42
2:EB:74:PHE:HB2	2:EB:91:LEU:O	2.19	0.42
2:EB:260:PHE:HD1	2:EB:260:PHE:C	2.22	0.42
2:EB:463:TYR:C	2:EB:463:TYR:CD1	2.93	0.42
2:EB:527:PHE:HE2	2:EB:669:GLN:NE2	2.17	0.42
2:EB:800:TYR:CE1	2:EB:910:THR:HG23	2.53	0.42
2:EB:989:ASP:HB3	2:EB:990:ASP:H	1.63	0.42
3:EC:254:GLY:O	3:EC:268:LYS:HB2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:EE:112:TYR:CE1	5:EE:136:ASN:HB2	2.54	0.42
5:EE:120:ALA:O	5:EE:123:LEU:HB2	2.19	0.42
12:EL:63:ARG:HG3	12:EL:63:ARG:HH11	1.84	0.42
1:FA:262:THR:HA	1:FA:265:ARG:CZ	2.49	0.42
1:FA:856:GLU:H	1:FA:856:GLU:HG3	1.62	0.42
1:FA:1441:LYS:HA	1:FA:1444:ARG:HD2	2.00	0.42
1:FA:1555:VAL:HG11	5:FE:178:ILE:HD13	2.02	0.42
2:FB:168:ASN:OD1	2:FB:169:ARG:HG2	2.18	0.42
2:FB:416:LYS:HZ3	2:FB:471:VAL:CG1	2.32	0.42
2:FB:462:GLN:O	2:FB:466:SER:N	2.52	0.42
2:FB:652:PRO:O	2:FB:653:VAL:HG13	2.19	0.42
2:FB:744:LEU:HD12	2:FB:800:TYR:O	2.18	0.42
2:FB:844:GLY:HA2	2:FB:860:ALA:HB3	2.01	0.42
2:FB:965:GLU:HB3	2:FB:1031:VAL:HG22	2.02	0.42
2:FB:994:ASP:OD1	2:FB:994:ASP:N	2.52	0.42
2:FB:1117:VAL:HA	2:FB:1118:PRO:HD3	1.89	0.42
11:FK:115:ASP:O	11:FK:118:GLN:N	2.52	0.42
13:FM:16:GLN:HB3	13:FM:91:TYR:HA	2.02	0.42
13:FM:18:GLN:HG3	13:FM:19:PRO:HD2	2.01	0.42
7:FO:272:ILE:HG12	7:FO:275:ASN:ND2	2.34	0.42
1:AA:597:LYS:HB2	2:AB:1082:HIS:NE2	2.35	0.42
1:AA:671:GLN:C	2:AB:952:HIS:CD2	2.93	0.42
1:AA:773:ASP:OD2	1:AA:773:ASP:N	2.52	0.42
1:AA:913:PRO:HB3	1:AA:926:GLN:OE1	2.20	0.42
1:AA:1076:LEU:HD23	1:AA:1076:LEU:HA	1.76	0.42
1:AA:1102:LEU:HD13	1:AA:1105:ARG:HH21	1.84	0.42
2:AB:280:LEU:O	2:AB:323:ARG:NH2	2.53	0.42
2:AB:548:LYS:HA	2:AB:550:ARG:NH1	2.35	0.42
2:AB:774:ALA:HA	2:AB:1028:VAL:CG1	2.49	0.42
2:AB:853:GLU:HB3	2:AB:879:PRO:HB3	2.02	0.42
2:AB:1151:ILE:HG22	2:AB:1152:PHE:N	2.34	0.42
3:AC:303:GLU:O	3:AC:304:SER:HB2	2.19	0.42
1:BA:113:VAL:HG13	1:BA:182:LYS:CG	2.47	0.42
1:BA:713:VAL:HB	1:BA:738:ASN:ND2	2.33	0.42
1:BA:751:SER:OG	1:BA:752:LYS:N	2.52	0.42
1:BA:920:PHE:CG	1:BA:921:PRO:HA	2.55	0.42
1:BA:1333:ILE:CD1	1:BA:1483:LEU:HD21	2.49	0.42
1:BA:1596:LEU:HD23	1:BA:1596:LEU:HA	1.81	0.42
2:BB:45:HIS:CE1	2:BB:205:MET:SD	3.12	0.42
2:BB:523:GLU:H	2:BB:523:GLU:HG2	1.48	0.42
2:BB:531:VAL:O	2:BB:716:MET:HG3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:622:ILE:HD12	2:BB:622:ILE:H	1.84	0.42
2:BB:1178:ILE:HD12	2:BB:1179:PRO:O	2.19	0.42
3:BC:82:TYR:HB3	3:BC:84:TYR:HE1	1.84	0.42
3:BC:197:ARG:HB3	3:BC:198:PRO:HD2	2.01	0.42
3:BC:228:ARG:HD3	14:BN:173:THR:CG2	2.49	0.42
3:BC:235:ILE:HA	3:BC:289:VAL:HG13	2.02	0.42
5:BE:176:PRO:HB2	5:BE:212:ARG:HD3	2.02	0.42
8:BH:12:VAL:HA	8:BH:28:ALA:HB2	2.02	0.42
8:BH:103:LYS:O	8:BH:104:PHE:HD1	2.02	0.42
1:CA:621:THR:HG23	1:CA:626:ALA:HB3	2.02	0.42
1:CA:795:HIS:O	1:CA:798:HIS:HB3	2.18	0.42
1:CA:1275:THR:HG22	9:CI:46:LYS:HB2	2.00	0.42
2:CB:792:SER:HB2	2:CB:933:THR:HB	2.00	0.42
2:CB:898:LEU:HD22	12:CL:46:VAL:HG13	2.01	0.42
7:CG:106:LYS:HG3	7:CG:107:ILE:N	2.34	0.42
9:CI:11:LEU:HD12	9:CI:11:LEU:H	1.83	0.42
12:CL:63:ARG:HG3	12:CL:63:ARG:NH1	2.34	0.42
1:DA:209:THR:HG21	5:DE:174:GLN:HG3	2.00	0.42
1:DA:481:ARG:HA	1:DA:633:MET:O	2.19	0.42
1:DA:966:LEU:CG	1:DA:968:SER:H	2.23	0.42
1:DA:1049:MET:HG2	1:DA:1054:ALA:HB2	2.01	0.42
1:DA:1226:VAL:HG12	1:DA:1227:MET:N	2.35	0.42
1:DA:1310:LYS:O	1:DA:1313:LEU:HB3	2.19	0.42
1:DA:1507:CYS:SG	1:DA:1508:VAL:N	2.91	0.42
1:DA:1655:ASP:HB2	6:DF:135:ARG:HB3	2.00	0.42
2:DB:91:LEU:CD1	2:DB:342:PRO:HB2	2.49	0.42
2:DB:649:MET:HE3	2:DB:666:PRO:HG2	2.01	0.42
2:DB:655:TYR:CE2	2:DB:657:PRO:HB2	2.54	0.42
2:DB:825:PHE:CE2	2:DB:899:GLN:HA	2.53	0.42
2:DB:968:ALA:O	2:DB:979:GLN:HG3	2.19	0.42
2:DB:1110:ILE:O	2:DB:1110:ILE:HG12	2.16	0.42
2:DB:1141:LEU:HD13	7:DG:17:ILE:HG21	2.02	0.42
3:DC:73:SER:O	3:DC:212:ILE:HD13	2.19	0.42
3:DC:197:ARG:HB3	3:DC:198:PRO:HD2	2.01	0.42
10:DJ:39:LEU:HD23	10:DJ:39:LEU:HA	1.82	0.42
12:DL:61:THR:O	12:DL:63:ARG:N	2.52	0.42
13:DM:44:LYS:HA	13:DM:44:LYS:HD2	1.67	0.42
1:EA:211:THR:O	1:EA:212:VAL:C	2.58	0.42
1:EA:678:VAL:HG13	1:EA:781:LEU:O	2.19	0.42
1:EA:1058:THR:C	1:EA:1060:GLU:H	2.21	0.42
1:EA:1102:LEU:HD12	1:EA:1102:LEU:HA	1.65	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1224:GLU:HB3	1:EA:1233:ILE:HG22	2.01	0.42
1:EA:1263:LEU:C	1:EA:1265:GLU:N	2.73	0.42
1:EA:1527:GLN:HA	1:EA:1530:TRP:CE3	2.54	0.42
1:EA:1619:CYS:O	1:EA:1622:LEU:HB3	2.19	0.42
2:EB:376:PHE:HB2	2:EB:592:ILE:HD11	2.01	0.42
2:EB:389:CYS:HB2	2:EB:635:GLY:O	2.20	0.42
2:EB:612:LYS:HD2	2:EB:622:ILE:C	2.40	0.42
2:EB:840:LEU:HD12	2:EB:857:PRO:HB2	2.02	0.42
2:EB:878:GLU:HA	2:EB:879:PRO:HD2	1.85	0.42
2:EB:994:ASP:N	2:EB:994:ASP:OD1	2.53	0.42
3:EC:45:SER:HB3	3:EC:53:ASN:HB3	2.00	0.42
3:EC:55:ASP:C	3:EC:56:LEU:HD23	2.40	0.42
7:EG:49:LEU:HD12	7:EG:50:ALA:N	2.34	0.42
8:EH:128:ASN:OD1	8:EH:130:ARG:HB2	2.19	0.42
1:FA:723:TYR:CD1	1:FA:724:PRO:HD2	2.54	0.42
1:FA:968:SER:HB2	2:FB:676:VAL:HG23	1.98	0.42
2:FB:398:GLN:HB3	2:FB:399:HIS:ND1	2.35	0.42
2:FB:492:ASN:OD1	2:FB:494:TYR:HB2	2.19	0.42
2:FB:800:TYR:CD2	2:FB:800:TYR:C	2.93	0.42
2:FB:832:TRP:HE3	2:FB:834:LYS:H	1.67	0.42
2:FB:971:ALA:O	2:FB:973:ALA:N	2.52	0.42
2:FB:1052:VAL:HG12	2:FB:1059:PRO:HG3	2.00	0.42
3:FC:115:TRP:HB3	3:FC:116:VAL:H	1.65	0.42
4:FD:88:GLN:NE2	4:FD:91:ARG:HH21	2.16	0.42
7:FG:168:PHE:HD1	7:FG:217:TRP:CD2	2.38	0.42
8:FH:3:ASN:N	8:FH:61:SER:HG	2.17	0.42
10:FJ:16:ASP:C	10:FJ:18:TRP:H	2.23	0.42
12:FL:30:ILE:HD11	12:FL:37:LYS:NZ	2.35	0.42
1:AA:123:ARG:HG3	1:AA:193:ILE:HD11	2.01	0.42
1:AA:345:LEU:H	1:AA:345:LEU:HG	1.33	0.42
1:AA:530:TRP:CZ2	1:AA:607:VAL:HG21	2.55	0.42
1:AA:1342:PRO:HD2	2:AB:272:PRO:HG3	2.02	0.42
2:AB:452:ARG:HE	2:AB:452:ARG:HB2	1.64	0.42
2:AB:617:THR:OG1	2:AB:620:LEU:HD23	2.19	0.42
2:AB:656:LEU:HD21	2:AB:689:VAL:HG12	2.02	0.42
2:AB:848:ILE:H	2:AB:848:ILE:HG12	1.61	0.42
6:AF:100:GLN:HG2	7:AG:112:PRO:HB2	2.01	0.42
8:AH:47:PHE:O	8:AH:49:VAL:HG23	2.19	0.42
11:AK:89:CYS:HA	11:AK:104:ARG:O	2.20	0.42
14:AN:124:THR:C	14:AN:126:LYS:H	2.23	0.42
1:BA:859:ALA:HB1	1:BA:865:ASP:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:975:ASP:CG	1:BA:976:ALA:N	2.73	0.42
1:BA:1073:TYR:CE1	1:BA:1077:LEU:HD22	2.54	0.42
1:BA:1271:ILE:HG23	9:BI:50:THR:HG22	2.01	0.42
1:BA:1649:VAL:HG11	2:BB:1080:ILE:O	2.20	0.42
2:BB:572:PRO:CG	13:BM:70:SER:HB2	2.50	0.42
2:BB:898:LEU:HA	2:BB:898:LEU:HD13	1.64	0.42
2:BB:1111:LEU:HD23	2:BB:1111:LEU:N	2.35	0.42
3:BC:48:ASP:OD2	3:BC:50:ARG:N	2.51	0.42
3:BC:67:PHE:HE1	3:BC:318:VAL:HA	1.84	0.42
3:BC:142:ARG:O	3:BC:144:PRO:HD3	2.19	0.42
10:BJ:2:ILE:HG13	10:BJ:55:ASP:OD1	2.20	0.42
11:BK:119:LYS:O	11:BK:123:ASP:HB2	2.20	0.42
13:BM:23:VAL:HG11	14:BN:107:MET:HG3	2.01	0.42
1:CA:456:VAL:O	1:CA:460:LEU:HG	2.19	0.42
1:CA:467:PHE:HA	1:CA:471:MET:CE	2.49	0.42
1:CA:545:SER:C	1:CA:547:ILE:H	2.23	0.42
1:CA:670:ILE:HD13	1:CA:670:ILE:N	2.34	0.42
1:CA:729:LYS:HD2	8:CH:120:GLY:CA	2.40	0.42
1:CA:892:LEU:HG	1:CA:893:ASP:OD1	2.19	0.42
1:CA:992:PRO:HG3	2:CB:984:TRP:CE2	2.54	0.42
1:CA:1342:PRO:HD2	2:CB:272:PRO:HG3	2.02	0.42
1:CA:1441:LYS:HA	1:CA:1444:ARG:HD2	2.00	0.42
1:CA:1646:LEU:HD12	1:CA:1646:LEU:HA	1.89	0.42
2:CB:35:PHE:O	2:CB:38:LEU:HD23	2.19	0.42
2:CB:347:LEU:HD13	2:CB:347:LEU:HA	1.66	0.42
2:CB:627:GLY:H	2:CB:642:LEU:HD22	1.84	0.42
2:CB:1158:ILE:HA	2:CB:1167:PHE:O	2.20	0.42
3:CC:67:PHE:O	3:CC:71:MET:HG2	2.19	0.42
7:CG:46:TYR:CD1	7:CG:117:TRP:HD1	2.37	0.42
7:CG:91:ASP:OD2	7:CG:103:LYS:HG2	2.19	0.42
14:CN:139:VAL:HB	14:CN:140:SER:H	1.30	0.42
1:DA:118:TYR:CD2	1:DA:223:PHE:HD1	2.37	0.42
1:DA:1092:GLU:O	1:DA:1095:LEU:N	2.47	0.42
1:DA:1460:TYR:HA	1:DA:1472:PHE:HB3	2.02	0.42
1:DA:1472:PHE:O	1:DA:1473:LYS:HB3	2.18	0.42
2:DB:366:GLY:O	2:DB:368:GLN:N	2.53	0.42
2:DB:392:ASP:HB3	2:DB:399:HIS:NE2	2.35	0.42
2:DB:463:TYR:CD1	2:DB:463:TYR:C	2.92	0.42
2:DB:1153:ILE:HD12	2:DB:1154:ASP:N	2.34	0.42
3:DC:137:ASN:HD22	3:DC:137:ASN:N	2.18	0.42
3:DC:142:ARG:O	3:DC:144:PRO:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:228:ARG:HG3	3:DC:299:ILE:HD12	2.01	0.42
4:DD:22:ILE:O	4:DD:23:HIS:ND1	2.52	0.42
5:DE:81:GLU:HG3	5:DE:82:PHE:N	2.34	0.42
7:DG:139:ILE:HD13	7:DG:139:ILE:HA	1.91	0.42
10:DJ:36:LEU:HD11	10:DJ:51:LEU:HB2	2.02	0.42
1:EA:395:LEU:HD21	7:EO:280:PHE:CE2	2.55	0.42
1:EA:748:ASN:HD22	1:EA:748:ASN:H	1.65	0.42
1:EA:1142:ASP:O	1:EA:1145:GLU:N	2.52	0.42
1:EA:1617:THR:O	1:EA:1617:THR:OG1	2.37	0.42
2:EB:962:MET:O	2:EB:963:PHE:C	2.58	0.42
2:EB:1093:LEU:HD11	2:EB:1179:PRO:HB3	2.00	0.42
3:EC:210:LEU:H	3:EC:210:LEU:HD12	1.85	0.42
5:EE:190:LEU:HA	5:EE:194:GLU:OE1	2.19	0.42
8:EH:100:THR:O	8:EH:116:TYR:HA	2.20	0.42
10:EJ:12:LYS:HD3	10:EJ:13:VAL:O	2.19	0.42
10:EJ:18:TRP:CZ2	10:EJ:53:HIS:HD2	2.38	0.42
7:EO:314:THR:HB	7:EO:316:GLU:CD	2.40	0.42
1:FA:495:ILE:HG22	1:FA:604:LYS:O	2.19	0.42
1:FA:509:GLU:HG3	1:FA:579:ARG:CZ	2.49	0.42
1:FA:717:PRO:HD3	8:FH:79:TRP:CE3	2.54	0.42
1:FA:810:LEU:O	1:FA:813:LEU:N	2.50	0.42
1:FA:912:VAL:HA	1:FA:913:PRO:HA	1.76	0.42
1:FA:1216:THR:HB	1:FA:1221:ARG:HD3	2.01	0.42
2:FB:214:PRO:HB3	2:FB:377:MET:CE	2.49	0.42
2:FB:290:ASP:C	2:FB:292:ILE:H	2.22	0.42
2:FB:732:ALA:O	2:FB:736:ARG:HG3	2.19	0.42
3:FC:192:LEU:HD22	10:FJ:19:GLU:HG2	2.02	0.42
3:FC:254:GLY:O	3:FC:268:LYS:HB2	2.18	0.42
5:FE:164:LEU:HD12	5:FE:164:LEU:HA	1.79	0.42
8:FH:5:LEU:CD2	8:FH:135:LEU:HD23	2.47	0.42
12:FL:64:LEU:HD12	12:FL:65:VAL:H	1.84	0.42
13:FM:82:ASN:HA	13:FM:83:PRO:HD2	1.90	0.42
14:FN:58:PHE:CD1	14:FN:58:PHE:N	2.87	0.42
1:AA:39:ASP:OD1	1:AA:41:LEU:N	2.52	0.42
1:AA:588:LEU:HA	1:AA:588:LEU:HD12	1.85	0.42
1:AA:967:PRO:O	2:AB:674:ILE:N	2.53	0.42
1:AA:1134:GLY:HA2	1:AA:1171:GLN:HG2	2.02	0.42
1:AA:1555:VAL:HG13	1:AA:1556:GLU:H	1.84	0.42
2:AB:59:GLY:O	2:AB:61:LEU:N	2.52	0.42
2:AB:470:LEU:N	2:AB:481:VAL:O	2.53	0.42
2:AB:885:VAL:HA	2:AB:903:ILE:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:AN:82:ILE:HB	14:AN:87:TYR:CE1	2.55	0.42
14:AN:178:GLU:C	14:AN:180:PHE:H	2.23	0.42
1:BA:87:ASN:HA	1:BA:88:PRO:HD2	1.85	0.42
1:BA:913:PRO:HB3	1:BA:926:GLN:OE1	2.19	0.42
1:BA:1600:ARG:HB3	1:BA:1601:GLN:OE1	2.20	0.42
1:BA:1609:SER:O	1:BA:1612:LYS:HB2	2.19	0.42
2:BB:94:LYS:HG2	2:BB:147:ASN:H	1.84	0.42
2:BB:362:LEU:HD23	2:BB:362:LEU:HA	1.77	0.42
2:BB:378:ILE:HG12	2:BB:378:ILE:H	1.56	0.42
2:BB:854:GLU:HG3	2:BB:875:HIS:HA	2.01	0.42
2:BB:1026:ILE:O	2:BB:1026:ILE:HG13	2.18	0.42
3:BC:87:ASN:OD1	12:BL:60:ARG:HD3	2.19	0.42
5:BE:20:LYS:NZ	5:BE:37:LEU:HD22	2.34	0.42
1:CA:11:ILE:H	1:CA:11:ILE:HG13	1.63	0.42
1:CA:422:ARG:CD	7:CO:272:ILE:HB	2.48	0.42
1:CA:469:LYS:NZ	7:CO:314:THR:O	2.40	0.42
1:CA:481:ARG:HA	1:CA:633:MET:O	2.19	0.42
1:CA:957:VAL:HG13	1:CA:958:PRO:HD2	2.00	0.42
1:CA:1325:LEU:HD22	1:CA:1492:ILE:HG21	2.01	0.42
1:CA:1582:LEU:N	1:CA:1582:LEU:HD23	2.34	0.42
2:CB:202:LEU:HD13	2:CB:500:PHE:CE2	2.54	0.42
2:CB:480:GLN:OE1	2:CB:506:GLY:HA3	2.20	0.42
2:CB:731:VAL:HG13	10:CJ:60:PHE:CD1	2.55	0.42
2:CB:745:GLN:HA	2:CB:745:GLN:NE2	2.34	0.42
2:CB:979:GLN:OE1	2:CB:979:GLN:HA	2.19	0.42
2:CB:1143:THR:CG2	2:CB:1150:LYS:HD3	2.50	0.42
5:CE:52:ARG:HA	5:CE:53:PRO:HD3	1.82	0.42
6:CF:114:GLU:HG3	6:CF:120:ILE:HG13	2.01	0.42
7:CG:226:ASP:O	2:DB:434:ARG:NH1	2.53	0.42
1:DA:441:THR:C	1:DA:443:ALA:H	2.21	0.42
1:DA:751:SER:OG	1:DA:752:LYS:N	2.53	0.42
1:DA:762:LYS:HE2	8:DH:27:GLU:OE2	2.18	0.42
1:DA:1060:GLU:O	1:DA:1063:MET:N	2.47	0.42
1:DA:1322:ILE:CG2	1:DA:1457:ILE:HD11	2.47	0.42
1:DA:1446:ARG:HG2	1:DA:1450:ILE:HD13	2.02	0.42
2:DB:45:HIS:H	2:DB:45:HIS:CD2	2.35	0.42
2:DB:71:LYS:HB3	2:DB:425:ILE:CD1	2.49	0.42
2:DB:184:LYS:HE2	2:DB:735:HIS:NE2	2.34	0.42
2:DB:824:HIS:O	2:DB:861:TYR:HB2	2.19	0.42
3:DC:128:ASP:C	3:DC:130:ASN:N	2.72	0.42
3:DC:163:TYR:C	3:DC:193:LEU:HD22	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:DC:216:HIS:O	3:DC:218:LYS:N	2.53	0.42
5:DE:70:SER:O	5:DE:73:PRO:HG3	2.19	0.42
5:DE:82:PHE:CZ	5:DE:111:VAL:HG21	2.54	0.42
13:DM:51:PHE:O	13:DM:66:THR:HG23	2.19	0.42
1:EA:713:VAL:HB	1:EA:738:ASN:ND2	2.33	0.42
1:EA:1062:HIS:HD2	1:EA:1068:PHE:CD1	2.37	0.42
1:EA:1226:VAL:HG12	1:EA:1227:MET:N	2.35	0.42
1:EA:1226:VAL:HG22	1:EA:1598:PHE:CE1	2.55	0.42
1:EA:1307:ASP:O	1:EA:1499:ARG:NH1	2.46	0.42
2:EB:214:PRO:HB3	2:EB:377:MET:HE2	2.01	0.42
2:EB:381:LEU:O	2:EB:385:VAL:HG23	2.20	0.42
2:EB:565:LEU:HD23	2:EB:565:LEU:HA	1.71	0.42
2:EB:871:ILE:HD13	2:EB:873:THR:HG22	2.00	0.42
3:EC:132:ILE:HG23	3:EC:132:ILE:HD12	1.79	0.42
3:EC:235:ILE:HG23	3:EC:289:VAL:HG22	2.02	0.42
5:EE:8:ASN:HA	5:EE:11:ARG:HG3	2.02	0.42
8:EH:93:TYR:N	8:EH:93:TYR:CD1	2.87	0.42
9:EI:121:PHE:HD1	9:EI:121:PHE:H	1.65	0.42
11:EK:45:GLU:H	11:EK:45:GLU:HG3	1.35	0.42
14:EN:129:ALA:HA	14:EN:130:PRO:HD3	1.93	0.42
1:FA:888:LYS:HG2	9:FI:67:VAL:CG2	2.49	0.42
1:FA:1275:THR:HG23	1:FA:1289:SER:OG	2.19	0.42
1:FA:1295:ARG:HA	1:FA:1468:LYS:O	2.20	0.42
2:FB:611:TRP:C	2:FB:620:LEU:HD21	2.40	0.42
2:FB:617:THR:HB	2:FB:620:LEU:HD23	2.02	0.42
2:FB:774:ALA:HA	2:FB:1028:VAL:HG12	2.01	0.42
3:FC:228:ARG:HG3	3:FC:299:ILE:HD12	2.01	0.42
6:FF:79:ARG:HB3	6:FF:146:TRP:CZ2	2.54	0.42
8:FH:103:LYS:O	8:FH:104:PHE:HD1	2.03	0.42
12:FL:31:CYS:HA	12:FL:56:LEU:HD23	2.02	0.42
14:FN:57:LYS:HD3	14:FN:138:SER:OG	2.20	0.42
14:FN:124:THR:C	14:FN:126:LYS:H	2.22	0.42
1:AA:59:ARG:CZ	7:AO:298:PRO:HB3	2.50	0.42
1:AA:522:ALA:O	1:AA:525:ASN:N	2.53	0.42
1:AA:715:LEU:HD22	1:AA:715:LEU:HA	1.87	0.42
1:AA:993:GLN:CG	2:AB:676:VAL:HG21	2.50	0.42
1:AA:1002:GLY:O	1:AA:1006:LEU:HG	2.20	0.42
1:AA:1237:GLN:HB3	1:AA:1520:VAL:CG1	2.49	0.42
1:AA:1262:LEU:HD12	1:AA:1264:SER:HG	1.85	0.42
1:AA:1654:PHE:HE2	6:AF:92:ARG:HD3	1.84	0.42
2:AB:492:ASN:OD1	2:AB:494:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:495:ARG:HA	2:AB:723:LYS:HG2	2.02	0.42
2:AB:795:GLU:O	3:AC:99:HIS:CE1	2.72	0.42
3:AC:53:ASN:ND2	3:AC:300:PHE:O	2.52	0.42
4:AD:88:GLN:NE2	4:AD:91:ARG:HH21	2.17	0.42
7:AG:49:LEU:HG	7:AG:50:ALA:O	2.20	0.42
14:AN:55:LEU:HD22	14:AN:133:PHE:CE2	2.55	0.42
1:BA:126:GLN:NE2	1:BA:340:HIS:O	2.48	0.42
1:BA:456:VAL:O	1:BA:459:ALA:HB3	2.19	0.42
1:BA:794:VAL:HG23	1:BA:795:HIS:N	2.26	0.42
2:BB:137:LEU:HD23	2:BB:161:LEU:HD23	2.01	0.42
2:BB:302:LEU:HD11	2:BB:379:ARG:NH1	2.34	0.42
2:BB:745:GLN:NE2	2:BB:745:GLN:HA	2.35	0.42
7:BG:158:LYS:HE3	7:BG:246:ASP:OD1	2.19	0.42
10:BJ:6:ARG:HB3	10:BJ:11:GLY:O	2.19	0.42
11:BK:77:ARG:HG3	11:BK:78:TYR:N	2.35	0.42
7:BO:274:SER:O	7:BO:277:LYS:N	2.52	0.42
1:CA:52:LEU:C	1:CA:54:LEU:N	2.72	0.42
1:CA:362:VAL:HA	1:CA:363:PRO:HD3	1.91	0.42
1:CA:713:VAL:HG12	1:CA:714:THR:N	2.34	0.42
1:CA:733:THR:HG23	1:CA:774:GLY:O	2.19	0.42
1:CA:1060:GLU:O	1:CA:1061:SER:C	2.57	0.42
1:CA:1078:LYS:HD2	1:CA:1078:LYS:HA	1.69	0.42
1:CA:1241:PRO:HG3	1:CA:1540:GLY:CA	2.50	0.42
1:CA:1294:MET:SD	1:CA:1294:MET:N	2.92	0.42
2:CB:53:THR:HA	2:CB:59:GLY:HA3	2.01	0.42
2:CB:161:LEU:HD12	2:CB:162:PRO:CD	2.46	0.42
2:CB:876:SER:C	2:CB:878:GLU:N	2.71	0.42
3:CC:253:PRO:HD2	14:CN:180:PHE:CE1	2.55	0.42
10:CJ:39:LEU:HA	10:CJ:39:LEU:HD23	1.80	0.42
13:CM:23:VAL:HB	13:CM:95:VAL:HG22	2.02	0.42
1:DA:391:THR:O	1:DA:395:LEU:HG	2.20	0.42
1:DA:1006:LEU:HD21	9:DI:100:GLN:HE21	1.85	0.42
1:DA:1193:VAL:O	1:DA:1196:PRO:HD2	2.20	0.42
1:DA:1261:VAL:HA	1:DA:1265:GLU:OE2	2.19	0.42
1:DA:1555:VAL:HG13	1:DA:1556:GLU:H	1.85	0.42
2:DB:472:SER:OG	2:DB:473:GLN:N	2.51	0.42
2:DB:627:GLY:H	2:DB:642:LEU:HD22	1.84	0.42
2:DB:745:GLN:HA	2:DB:745:GLN:NE2	2.33	0.42
2:DB:998:GLU:O	2:DB:1001:ALA:N	2.53	0.42
3:DC:146:ALA:O	3:DC:148:LYS:N	2.52	0.42
5:DE:137:GLU:C	5:DE:139:ALA:N	2.70	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:DF:99:LEU:HB3	7:DG:112:PRO:HD3	2.02	0.42
6:DF:129:LYS:HD3	6:DF:129:LYS:HA	1.79	0.42
7:DO:284:VAL:HG13	7:DO:288:ASN:ND2	2.35	0.42
1:EA:999:CYS:O	1:EA:1003:ARG:HB3	2.20	0.42
1:EA:1273:THR:HA	9:EI:48:VAL:HG22	2.02	0.42
1:EA:1321:PHE:HD2	1:EA:1322:ILE:HD13	1.85	0.42
2:EB:474:SER:C	2:EB:476:LEU:N	2.73	0.42
2:EB:1086:PHE:O	2:EB:1089:GLN:N	2.53	0.42
3:EC:62:SER:HB2	11:EK:74:ASN:OD1	2.20	0.42
3:EC:211:GLY:HA3	3:EC:219:PHE:CZ	2.55	0.42
3:EC:253:PRO:C	3:EC:255:VAL:H	2.23	0.42
7:EG:39:VAL:O	7:EG:123:TYR:HA	2.20	0.42
8:EH:50:ALA:O	8:EH:53:ASP:HB2	2.20	0.42
8:EH:108:SER:O	8:EH:110:ASP:N	2.52	0.42
1:FA:132:GLU:HG2	1:FA:192:ALA:HB1	2.00	0.42
1:FA:780:ILE:C	1:FA:781:LEU:HD23	2.40	0.42
1:FA:1008:ASP:OD1	2:FB:515:THR:HG21	2.20	0.42
1:FA:1344:ILE:HG23	2:FB:271:VAL:HG22	2.01	0.42
1:FA:1582:LEU:HA	1:FA:1585:ILE:HG13	2.00	0.42
2:FB:35:PHE:O	2:FB:38:LEU:HD23	2.20	0.42
2:FB:164:MET:HE3	2:FB:194:PHE:CZ	2.54	0.42
2:FB:301:PHE:O	2:FB:305:ARG:HG2	2.18	0.42
2:FB:915:ASP:OD1	2:FB:1038:HIS:ND1	2.53	0.42
3:FC:136:LEU:HD12	3:FC:137:ASN:N	2.35	0.42
4:FD:19:PRO:HB3	7:FG:46:TYR:O	2.20	0.42
4:FD:85:SER:O	4:FD:88:GLN:N	2.47	0.42
6:FF:136:ARG:O	6:FF:143:PHE:HB2	2.19	0.42
9:FI:95:ASN:O	9:FI:96:TYR:HB3	2.20	0.42
10:FJ:12:LYS:HD3	10:FJ:13:VAL:O	2.20	0.42
11:FK:69:ASP:HB2	11:FK:70:HIS:H	1.72	0.42
1:AA:121:LYS:O	1:AA:124:LEU:N	2.53	0.42
1:AA:422:ARG:HD2	7:AO:270:LEU:O	2.20	0.42
1:AA:987:TYR:C	1:AA:987:TYR:HD2	2.22	0.42
1:AA:1056:ASP:OD1	1:AA:1058:THR:HG23	2.20	0.42
1:AA:1242:ILE:CD1	1:AA:1517:ARG:HB3	2.49	0.42
1:AA:1326:GLU:HG2	1:AA:1456:PHE:HD2	1.85	0.42
2:AB:28:PRO:HA	2:AB:29:PRO:HD3	1.92	0.42
2:AB:665:GLY:N	2:AB:668:GLU:OE1	2.47	0.42
2:AB:894:LYS:HB2	2:AB:894:LYS:HE3	1.86	0.42
2:AB:1189:LEU:HD22	2:AB:1189:LEU:HA	1.66	0.42
3:AC:88:ASN:O	12:AL:60:ARG:NH1	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:AG:122:LEU:HD22	7:AG:122:LEU:HA	1.87	0.42
7:AG:144:HIS:HA	7:AG:157:ILE:O	2.20	0.42
9:AI:20:PRO:C	9:AI:22:ALA:H	2.23	0.42
9:AI:111:PHE:HA	9:AI:121:PHE:O	2.19	0.42
12:AL:40:LEU:HD23	12:AL:40:LEU:HA	1.84	0.42
13:AM:59:ARG:HG3	13:AM:60:LEU:HG	2.02	0.42
13:AM:85:LYS:C	13:AM:87:SER:H	2.22	0.42
1:BA:505:LEU:HD13	1:BA:637:PHE:HB2	2.00	0.42
1:BA:569:SER:OG	1:BA:570:THR:HG23	2.19	0.42
1:BA:670:ILE:N	1:BA:670:ILE:HD13	2.34	0.42
1:BA:1007:ILE:O	1:BA:1011:VAL:HB	2.20	0.42
1:BA:1258:ILE:HD11	1:BA:1507:CYS:CB	2.50	0.42
1:BA:1344:ILE:HG22	2:BB:334:PHE:HE2	1.85	0.42
2:BB:98:SER:O	2:BB:141:LEU:HD12	2.20	0.42
2:BB:550:ARG:O	2:BB:551:ILE:HD13	2.19	0.42
2:BB:649:MET:HE3	2:BB:666:PRO:HG2	2.02	0.42
2:BB:748:GLN:HB3	10:BJ:52:THR:OG1	2.19	0.42
2:BB:1076:ARG:O	2:BB:1080:ILE:HG13	2.20	0.42
4:BD:23:HIS:O	7:BG:44:ALA:N	2.38	0.42
13:BM:16:GLN:CB	13:BM:91:TYR:HA	2.50	0.42
7:BO:266:GLN:O	7:BO:269:SER:N	2.49	0.42
1:CA:36:THR:HG22	1:CA:37:VAL:N	2.35	0.42
1:CA:423:LEU:HD23	1:CA:423:LEU:HA	1.91	0.42
1:CA:462:LYS:HD3	1:CA:469:LYS:NZ	2.34	0.42
1:CA:527:PRO:HG3	1:CA:534:THR:HA	2.01	0.42
1:CA:1291:VAL:HG12	1:CA:1292:ILE:H	1.83	0.42
1:CA:1658:ALA:O	7:CG:104:LEU:HA	2.20	0.42
2:CB:257:GLN:HG3	2:CB:316:ARG:HH22	1.85	0.42
2:CB:274:VAL:HG11	2:CB:313:PHE:HB2	2.01	0.42
2:CB:322:ASN:O	2:CB:326:VAL:HG23	2.20	0.42
2:CB:415:GLU:O	2:CB:418:ASP:HB3	2.20	0.42
2:CB:573:ALA:HA	2:CB:576:THR:HB	2.02	0.42
2:CB:852:VAL:HG22	2:CB:856:ASP:HB3	2.02	0.42
3:CC:101:ILE:H	3:CC:101:ILE:HG12	1.40	0.42
8:CH:30:SER:OG	8:CH:33:GLN:N	2.43	0.42
1:DA:103:LEU:HD11	1:DA:243:PHE:HZ	1.85	0.42
1:DA:702:PRO:HB2	11:DK:53:ALA:HB1	2.01	0.42
1:DA:1007:ILE:O	1:DA:1011:VAL:HB	2.19	0.42
1:DA:1066:PHE:HA	1:DA:1069:CYS:HB2	2.02	0.42
1:DA:1067:GLU:O	1:DA:1069:CYS:N	2.53	0.42
1:DA:1081:ASN:ND2	1:DA:1084:ALA:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:714:ARG:HA	2:DB:714:ARG:HD3	1.74	0.42
2:DB:985:ILE:H	2:DB:985:ILE:HG12	1.56	0.42
3:DC:67:PHE:CE1	3:DC:318:VAL:HG22	2.55	0.42
3:DC:86:PHE:CE2	3:DC:205:LYS:HE3	2.55	0.42
3:DC:136:LEU:HD22	3:DC:167:LEU:HA	2.00	0.42
3:DC:193:LEU:HA	3:DC:193:LEU:HD12	1.82	0.42
5:DE:15:ALA:HB1	5:DE:140:LEU:HB2	2.02	0.42
6:DF:118:LEU:HD13	6:DF:118:LEU:HA	1.73	0.42
13:DM:30:PHE:HE1	13:DM:62:TYR:HE2	1.67	0.42
1:EA:324:LEU:HD23	1:EA:324:LEU:HA	1.81	0.42
1:EA:407:GLN:H	1:EA:407:GLN:HG2	1.55	0.42
1:EA:484:ILE:HG21	1:EA:633:MET:HG3	2.02	0.42
1:EA:509:GLU:HG3	1:EA:579:ARG:CZ	2.50	0.42
1:EA:509:GLU:HG3	1:EA:579:ARG:NH2	2.35	0.42
1:EA:773:ASP:OD2	1:EA:773:ASP:N	2.53	0.42
1:EA:1059:LYS:NZ	1:EA:1178:LEU:O	2.40	0.42
1:EA:1243:TRP:HA	1:EA:1243:TRP:CE3	2.55	0.42
2:EB:38:LEU:O	2:EB:40:GLU:N	2.53	0.42
2:EB:480:GLN:OE1	2:EB:506:GLY:HA3	2.20	0.42
2:EB:774:ALA:HA	2:EB:1028:VAL:CG1	2.50	0.42
2:EB:847:TYR:O	2:EB:882:ILE:HD12	2.19	0.42
2:EB:1011:GLU:HA	2:EB:1012:PRO:HD3	1.88	0.42
3:EC:67:PHE:O	3:EC:71:MET:HG2	2.20	0.42
3:EC:102:GLY:HA3	12:EL:69:ALA:CB	2.50	0.42
3:EC:201:GLU:C	3:EC:202:ILE:HD12	2.39	0.42
5:EE:46:TYR:HD2	5:EE:57:MET:HB2	1.85	0.42
7:EG:106:LYS:O	7:EG:107:ILE:HD13	2.20	0.42
8:EH:46:LEU:HD23	8:EH:46:LEU:HA	1.70	0.42
13:EM:22:ALA:O	14:EN:109:LEU:HD12	2.20	0.42
14:EN:163:VAL:O	14:EN:166:LEU:HD11	2.20	0.42
1:FA:36:THR:HG22	1:FA:37:VAL:N	2.35	0.42
1:FA:1102:LEU:CD1	1:FA:1105:ARG:HH21	2.32	0.42
2:FB:219:ARG:HG2	2:FB:221:SER:HB3	2.01	0.42
2:FB:347:LEU:HD13	2:FB:347:LEU:HA	1.75	0.42
2:FB:658:LEU:HB3	2:FB:659:ASP:H	1.44	0.42
2:FB:834:LYS:O	2:FB:837:LEU:N	2.43	0.42
2:FB:898:LEU:HA	2:FB:898:LEU:HD13	1.72	0.42
2:FB:1073:GLU:O	2:FB:1076:ARG:HB3	2.19	0.42
5:FE:153:HIS:ND1	5:FE:153:HIS:N	2.67	0.42
12:FL:33:GLU:HG3	12:FL:53:HIS:ND1	2.35	0.42
1:AA:1060:GLU:O	1:AA:1061:SER:C	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1337:LYS:HE2	1:AA:1337:LYS:HB3	1.76	0.42
1:AA:1344:ILE:HD13	2:AB:329:TYR:CE2	2.55	0.42
1:AA:1621:PHE:O	1:AA:1624:LYS:HB2	2.20	0.42
1:AA:1646:LEU:HD12	1:AA:1646:LEU:HA	1.83	0.42
2:AB:22:GLU:O	2:AB:26:ILE:HG13	2.19	0.42
2:AB:203:ILE:H	2:AB:203:ILE:CD1	2.26	0.42
2:AB:206:LEU:HD23	2:AB:206:LEU:HA	1.91	0.42
2:AB:542:LEU:HD23	2:AB:542:LEU:HA	1.92	0.42
2:AB:617:THR:O	2:AB:620:LEU:HB3	2.20	0.42
2:AB:944:GLN:HA	2:AB:945:PRO:HD3	1.74	0.42
2:AB:1157:GLN:HB3	2:AB:1168:VAL:HG12	2.00	0.42
3:AC:233:ILE:HA	3:AC:233:ILE:HD13	1.72	0.42
7:AG:46:TYR:HD1	7:AG:117:TRP:HD1	1.67	0.42
1:BA:509:GLU:HG3	1:BA:579:ARG:CZ	2.49	0.42
1:BA:1474:LEU:HD22	1:BA:1474:LEU:HA	1.76	0.42
3:BC:209:ILE:H	3:BC:209:ILE:HD13	1.85	0.42
3:BC:228:ARG:HG3	3:BC:299:ILE:HD12	2.01	0.42
6:BF:65:ARG:HB3	6:BF:65:ARG:NH1	2.35	0.42
1:CA:589:MET:SD	1:CA:635:MET:HG3	2.59	0.42
1:CA:819:ASN:O	1:CA:822:THR:OG1	2.32	0.42
1:CA:893:ASP:OD2	1:CA:956:ARG:N	2.38	0.42
1:CA:1601:GLN:C	1:CA:1603:MET:N	2.72	0.42
2:CB:260:PHE:CD1	2:CB:260:PHE:C	2.93	0.42
2:CB:501:ARG:HH21	2:CB:545:PHE:HB2	1.84	0.42
2:CB:655:TYR:CZ	2:CB:657:PRO:HG2	2.54	0.42
2:CB:1151:ILE:HG22	2:CB:1152:PHE:N	2.34	0.42
8:CH:103:LYS:HB3	8:CH:115:TYR:HB2	2.02	0.42
9:CI:37:TYR:HA	9:CI:38:PRO:HD2	1.90	0.42
13:CM:76:TYR:CE1	14:CN:57:LYS:HG3	2.54	0.42
1:DA:53:ALA:O	1:DA:54:LEU:HD23	2.20	0.42
1:DA:86:TYR:CE1	1:DA:251:ILE:HD12	2.55	0.42
1:DA:113:VAL:O	1:DA:116:HIS:HB3	2.19	0.42
1:DA:816:LEU:HG	1:DA:817:PHE:HD1	1.84	0.42
1:DA:882:ILE:HD11	9:DI:67:VAL:HG11	2.02	0.42
1:DA:913:PRO:HB3	1:DA:926:GLN:OE1	2.20	0.42
1:DA:1323:HIS:CD2	1:DA:1454:HIS:HD2	2.37	0.42
1:DA:1596:LEU:HD22	1:DA:1602:GLY:HA2	2.01	0.42
2:DB:78:PRO:HB3	2:DB:90:TYR:CE2	2.55	0.42
2:DB:184:LYS:HE2	2:DB:735:HIS:CD2	2.55	0.42
2:DB:727:GLY:HA3	2:DB:767:ASN:OD1	2.20	0.42
2:DB:768:GLY:HA3	2:DB:1032:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DG:100:THR:C	7:DG:102:GLU:N	2.72	0.42
13:DM:36:THR:HG23	13:DM:57:ASN:ND2	2.35	0.42
1:EA:113:VAL:HG22	1:EA:182:LYS:CE	2.50	0.42
1:EA:127:TYR:CD1	1:EA:202:THR:HG21	2.54	0.42
1:EA:603:HIS:NE2	1:EA:624:TYR:OH	2.46	0.42
1:EA:713:VAL:HG12	1:EA:714:THR:H	1.84	0.42
1:EA:912:VAL:HA	1:EA:913:PRO:HA	1.86	0.42
1:EA:1261:VAL:O	1:EA:1498:ILE:HB	2.20	0.42
1:EA:1649:VAL:O	1:EA:1652:GLY:N	2.45	0.42
2:EB:479:GLN:H	2:EB:479:GLN:HG2	1.71	0.42
2:EB:589:ASP:HA	2:EB:643:PHE:HD1	1.85	0.42
2:EB:617:THR:O	2:EB:620:LEU:HB3	2.19	0.42
2:EB:678:PRO:HB2	2:EB:679:GLN:NE2	2.33	0.42
2:EB:1150:LYS:N	2:EB:1150:LYS:HD3	2.35	0.42
7:EG:104:LEU:O	7:EG:105:ILE:HD12	2.20	0.42
7:EG:155:ALA:HA	7:EG:245:VAL:HB	2.02	0.42
8:EH:101:ALA:HB2	8:EH:116:TYR:HE1	1.83	0.42
13:EM:38:PHE:O	14:EN:118:SER:HA	2.20	0.42
1:FA:363:PRO:HB3	2:FB:1187:SER:OG	2.19	0.42
1:FA:484:ILE:HG13	1:FA:628:PHE:CE1	2.54	0.42
1:FA:585:ASP:HA	1:FA:644:ARG:NH1	2.35	0.42
1:FA:1646:LEU:HD12	1:FA:1646:LEU:HA	1.85	0.42
2:FB:107:PRO:HG2	2:FB:133:TYR:CZ	2.54	0.42
2:FB:151:ASN:OD1	2:FB:151:ASN:N	2.52	0.42
2:FB:210:ARG:HH21	2:FB:667:PHE:HB2	1.85	0.42
2:FB:262:PHE:CD1	2:FB:357:ILE:HG12	2.55	0.42
2:FB:838:GLU:C	2:FB:840:LEU:H	2.23	0.42
4:FD:24:ALA:HA	7:FG:43:ILE:HG22	2.02	0.42
4:FD:94:ARG:NH1	4:FD:100:PRO:HG2	2.34	0.42
5:FE:17:ARG:NH1	5:FE:36:GLU:HA	2.34	0.42
6:FF:116:ASP:OD1	6:FF:118:LEU:N	2.43	0.42
13:FM:51:PHE:O	13:FM:66:THR:HG23	2.20	0.42
1:AA:314:TYR:CD2	1:AA:424:MET:HG3	2.55	0.42
1:AA:545:SER:C	1:AA:547:ILE:H	2.22	0.42
1:AA:955:ARG:HB3	1:AA:955:ARG:HH11	1.85	0.42
1:AA:985:ARG:HG2	1:AA:988:SER:H	1.85	0.42
1:AA:1226:VAL:HG22	1:AA:1598:PHE:CE1	2.55	0.42
1:AA:1272:VAL:CG1	1:AA:1273:THR:H	2.31	0.42
1:AA:1474:LEU:HD22	1:AA:1474:LEU:HA	1.75	0.42
1:AA:1488:ILE:H	1:AA:1488:ILE:HG13	1.54	0.42
1:AA:1619:CYS:O	1:AA:1622:LEU:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:122:TYR:CE2	2:AB:183:HIS:CD2	3.07	0.42
3:AC:181:ASP:O	3:AC:183:PRO:HD3	2.20	0.42
3:AC:222:VAL:C	3:AC:224:THR:H	2.23	0.42
7:AG:50:ALA:HB1	7:AG:52:MET:HG2	2.00	0.42
8:AH:118:PHE:CD2	8:AH:118:PHE:N	2.88	0.42
13:AM:77:VAL:O	14:AN:55:LEU:HD12	2.20	0.42
1:BA:966:LEU:CG	1:BA:968:SER:H	2.28	0.42
1:BA:1176:ARG:CD	6:BF:84:TYR:CE1	3.03	0.42
1:BA:1226:VAL:HG12	1:BA:1227:MET:N	2.35	0.42
1:BA:1258:ILE:O	1:BA:1501:ILE:HG13	2.19	0.42
1:BA:1323:HIS:CD2	1:BA:1454:HIS:CD2	3.08	0.42
1:BA:1460:TYR:HA	1:BA:1472:PHE:HB3	2.00	0.42
1:BA:1463:ASP:C	1:BA:1465:GLU:N	2.73	0.42
2:BB:376:PHE:HB2	2:BB:592:ILE:HD11	2.01	0.42
2:BB:527:PHE:CE2	2:BB:651:ARG:HD3	2.55	0.42
2:BB:655:TYR:HD1	2:BB:688:HIS:HE2	1.67	0.42
2:BB:1053:ASN:ND2	2:BB:1054:SER:N	2.68	0.42
3:BC:53:ASN:ND2	3:BC:300:PHE:O	2.53	0.42
4:BD:93:GLN:HG3	4:BD:94:ARG:N	2.35	0.42
7:BG:80:VAL:HG12	7:BG:82:LEU:CD2	2.49	0.42
1:CA:82:PRO:HD3	1:CA:393:SER:OG	2.19	0.42
1:CA:597:LYS:HB2	2:CB:1082:HIS:NE2	2.35	0.42
1:CA:756:LYS:HD3	9:CI:92:GLU:OE1	2.19	0.42
1:CA:1007:ILE:O	1:CA:1011:VAL:HB	2.19	0.42
1:CA:1274:GLU:O	9:CI:46:LYS:HA	2.19	0.42
2:CB:716:MET:O	2:CB:719:CYS:HB2	2.19	0.42
2:CB:959:THR:O	2:CB:961:GLY:N	2.53	0.42
3:CC:230:LEU:HD12	3:CC:231:PRO:CD	2.49	0.42
9:CI:113:THR:HG23	9:CI:120:LYS:HB3	2.00	0.42
10:CJ:16:ASP:C	10:CJ:18:TRP:H	2.22	0.42
14:CN:63:ASP:OD1	14:CN:65:SER:OG	2.37	0.42
1:DA:98:LEU:HA	1:DA:324:LEU:HD21	2.01	0.42
1:DA:484:ILE:HG21	1:DA:633:MET:HG3	2.02	0.42
1:DA:1235:THR:HA	1:DA:1236:PRO:HD2	1.95	0.42
2:DB:548:LYS:HA	2:DB:550:ARG:CZ	2.50	0.42
2:DB:561:ILE:HD11	2:DB:619:GLY:O	2.19	0.42
2:DB:663:ILE:HA	2:DB:663:ILE:HD12	1.54	0.42
3:DC:248:GLN:HG3	3:DC:256:ILE:O	2.20	0.42
3:DC:333:ILE:HD11	11:DK:49:LEU:N	2.35	0.42
4:DD:21:VAL:O	4:DD:22:ILE:HD13	2.20	0.42
5:DE:159:ASP:O	5:DE:163:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:DE:175:LEU:HD22	5:DE:175:LEU:HA	1.61	0.42
13:DM:14:SER:O	13:DM:90:LEU:N	2.50	0.42
14:DN:55:LEU:HD22	14:DN:133:PHE:CE2	2.54	0.42
1:EA:363:PRO:HA	1:EA:364:PRO:HD3	1.91	0.42
1:EA:441:THR:C	1:EA:443:ALA:H	2.23	0.42
1:EA:569:SER:OG	1:EA:570:THR:HG23	2.19	0.42
1:EA:815:ARG:HH11	1:EA:815:ARG:HD2	1.74	0.42
1:EA:1457:ILE:HA	1:EA:1474:LEU:HD22	2.02	0.42
1:EA:1662:ASN:HB3	7:EG:57:PRO:CD	2.49	0.42
2:EB:54:GLU:HB3	2:EB:55:GLY:H	1.64	0.42
2:EB:203:ILE:H	2:EB:203:ILE:HD12	1.84	0.42
2:EB:206:LEU:HD23	2:EB:206:LEU:HA	1.89	0.42
2:EB:322:ASN:O	2:EB:326:VAL:HG23	2.20	0.42
2:EB:652:PRO:O	2:EB:653:VAL:HG13	2.20	0.42
2:EB:776:ILE:HD12	2:EB:777:SER:H	1.84	0.42
6:EF:83:PRO:O	6:EF:151:LEU:HD22	2.20	0.42
7:EG:67:ASN:O	7:EG:70:VAL:HG23	2.20	0.42
7:EG:132:VAL:CG2	7:EG:232:THR:HB	2.49	0.42
7:EG:158:LYS:O	7:EG:162:ILE:HG13	2.20	0.42
11:EK:50:LEU:O	11:EK:54:THR:HG23	2.20	0.42
13:EM:23:VAL:HG13	14:EN:108:THR:O	2.20	0.42
14:EN:55:LEU:HB3	14:EN:136:VAL:CG2	2.50	0.42
1:FA:425:ASN:HD21	7:FO:274:SER:HB2	1.85	0.42
1:FA:1130:ALA:HB1	6:FF:82:THR:HB	2.02	0.42
1:FA:1148:LEU:HD11	1:FA:1167:ARG:HB2	2.00	0.42
1:FA:1321:PHE:HD2	1:FA:1322:ILE:HD13	1.85	0.42
2:FB:68:ILE:HD13	2:FB:68:ILE:HA	1.68	0.42
2:FB:169:ARG:HD3	2:FB:169:ARG:HA	1.82	0.42
2:FB:286:ARG:NH2	13:FM:28:LYS:HD2	2.34	0.42
2:FB:475:GLY:C	2:FB:477:ASP:N	2.71	0.42
2:FB:1053:ASN:ND2	2:FB:1054:SER:N	2.67	0.42
3:FC:146:ALA:O	3:FC:148:LYS:N	2.52	0.42
5:FE:213:ILE:HD13	5:FE:214:CYS:N	2.35	0.42
7:FG:139:ILE:O	7:FG:140:GLN:HG3	2.20	0.42
7:FG:145:ILE:HB	7:FG:157:ILE:HB	2.02	0.42
8:FH:5:LEU:CB	8:FH:60:ALA:HA	2.41	0.42
13:FM:59:ARG:O	13:FM:60:LEU:HD23	2.20	0.42
13:FM:85:LYS:C	13:FM:87:SER:H	2.22	0.42
1:AA:859:ALA:HB1	1:AA:865:ASP:O	2.20	0.41
1:AA:1159:ASP:O	1:AA:1161:VAL:HG23	2.20	0.41
1:AA:1291:VAL:HA	1:AA:1473:LYS:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:23:SER:HA	2:AB:26:ILE:CD1	2.50	0.41
2:AB:290:ASP:C	2:AB:292:ILE:H	2.24	0.41
2:AB:1119:ARG:HD2	2:AB:1119:ARG:HA	1.61	0.41
3:AC:61:THR:HA	3:AC:298:PHE:CZ	2.54	0.41
7:AG:137:ILE:HD11	7:AG:229:LEU:HB2	2.02	0.41
8:AH:138:GLU:HB2	8:AH:139:ASN:H	1.67	0.41
14:AN:75:GLU:H	14:AN:91:ASP:CG	2.23	0.41
7:AO:265:SER:O	7:AO:265:SER:OG	2.37	0.41
1:BA:966:LEU:HD11	1:BA:968:SER:HB3	2.02	0.41
1:BA:1038:ILE:HB	1:BA:1047:GLN:HB2	2.01	0.41
1:BA:1102:LEU:HD12	1:BA:1102:LEU:HA	1.65	0.41
1:BA:1546:VAL:O	1:BA:1549:VAL:N	2.53	0.41
2:BB:190:ILE:HD12	2:BB:497:ILE:HD11	2.02	0.41
2:BB:215:MET:O	2:BB:234:ILE:HD13	2.19	0.41
2:BB:559:SER:C	2:BB:561:ILE:H	2.24	0.41
2:BB:637:TYR:HA	2:BB:638:PRO:HD3	1.83	0.41
2:BB:785:ASP:HB3	2:BB:957:ARG:HH22	1.85	0.41
2:BB:971:ALA:O	2:BB:973:ALA:N	2.53	0.41
2:BB:1141:LEU:CD1	7:BG:17:ILE:HD13	2.50	0.41
3:BC:328:LEU:HA	3:BC:328:LEU:HD13	1.59	0.41
5:BE:135:PHE:HZ	5:BE:186:LEU:O	2.02	0.41
13:BM:82:ASN:HA	13:BM:83:PRO:HD2	1.92	0.41
14:BN:74:PHE:HZ	14:BN:135:LYS:HZ3	1.67	0.41
1:CA:70:LYS:HE2	1:CA:71:PHE:CE1	2.54	0.41
1:CA:77:GLY:O	1:CA:78:HIS:HB3	2.20	0.41
1:CA:1482:LYS:NZ	2:CB:304:ASP:OD1	2.52	0.41
1:CA:1484:LEU:CG	2:CB:308:LEU:HD11	2.48	0.41
1:CA:1589:MET:O	1:CA:1596:LEU:HB2	2.19	0.41
2:CB:214:PRO:HB3	2:CB:377:MET:CE	2.50	0.41
2:CB:378:ILE:H	2:CB:378:ILE:HG12	1.58	0.41
2:CB:673:ASN:HB2	2:CB:687:THR:HG23	2.01	0.41
2:CB:733:LEU:HD22	10:CJ:60:PHE:HE2	1.85	0.41
2:CB:1153:ILE:CG1	2:CB:1154:ASP:H	2.33	0.41
2:CB:1157:GLN:HB3	2:CB:1168:VAL:HG12	2.02	0.41
3:CC:70:ILE:C	3:CC:72:ILE:N	2.73	0.41
3:CC:105:PRO:HB2	3:CC:187:ALA:HB3	2.02	0.41
3:CC:255:VAL:HG12	3:CC:256:ILE:CG1	2.48	0.41
6:CF:72:LYS:HD2	6:CF:141:GLY:C	2.41	0.41
7:CG:233:VAL:HG13	7:CG:245:VAL:HG13	2.02	0.41
9:CI:95:ASN:N	9:CI:113:THR:O	2.46	0.41
11:CK:45:GLU:H	11:CK:45:GLU:HG3	1.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:64:LEU:HD12	12:CL:65:VAL:N	2.35	0.41
14:CN:54:TRP:CZ2	14:CN:135:LYS:HD2	2.55	0.41
14:CN:57:LYS:HD3	14:CN:138:SER:OG	2.20	0.41
7:CO:280:PHE:C	7:CO:284:VAL:HG23	2.41	0.41
1:DA:2:ASP:HB3	1:DA:5:LYS:HD3	2.00	0.41
1:DA:855:ARG:HH12	1:DA:867:ASP:C	2.24	0.41
1:DA:900:VAL:HB	1:DA:981:TYR:CE1	2.54	0.41
1:DA:1012:LYS:CE	2:DB:515:THR:HG23	2.49	0.41
1:DA:1111:GLU:H	1:DA:1111:GLU:HG2	1.71	0.41
1:DA:1481:GLU:H	1:DA:1481:GLU:HG2	1.44	0.41
1:DA:1540:GLY:O	1:DA:1542:THR:HG22	2.20	0.41
2:DB:98:SER:O	2:DB:141:LEU:HD12	2.20	0.41
2:DB:210:ARG:NH2	2:DB:625:GLU:CD	2.73	0.41
2:DB:714:ARG:HG2	2:DB:959:THR:CG2	2.51	0.41
2:DB:966:SER:HB3	2:DB:967:LEU:H	1.68	0.41
3:DC:240:LYS:HB2	3:DC:240:LYS:HE3	1.91	0.41
4:DD:89:LEU:HD23	4:DD:92:ILE:HD12	2.02	0.41
7:DG:243:VAL:H	7:DG:243:VAL:HG13	1.43	0.41
8:DH:39:THR:HG22	8:DH:124:ARG:HB3	2.01	0.41
8:DH:47:PHE:O	8:DH:49:VAL:HG23	2.20	0.41
1:EA:509:GLU:HA	1:EA:510:PRO:HD3	1.80	0.41
1:EA:1640:ARG:O	1:EA:1643:VAL:N	2.53	0.41
2:EB:187:SER:CB	10:EJ:59:LYS:HZ3	2.32	0.41
2:EB:415:GLU:O	2:EB:418:ASP:HB3	2.19	0.41
2:EB:501:ARG:O	2:EB:544:HIS:HA	2.20	0.41
2:EB:959:THR:O	2:EB:961:GLY:N	2.53	0.41
5:EE:196:VAL:O	5:EE:211:TYR:HB3	2.20	0.41
7:EG:105:ILE:HG23	7:EG:115:PHE:O	2.20	0.41
8:EH:9:ILE:H	8:EH:9:ILE:HG12	1.73	0.41
14:EN:67:LEU:O	14:EN:68:LYS:HD2	2.20	0.41
1:FA:654:ASP:C	1:FA:656:GLN:N	2.74	0.41
1:FA:1596:LEU:HD23	1:FA:1596:LEU:HA	1.93	0.41
2:FB:624:LEU:HD12	2:FB:625:GLU:H	1.85	0.41
2:FB:716:MET:O	2:FB:719:CYS:HB2	2.20	0.41
2:FB:731:VAL:HA	10:FJ:60:PHE:CZ	2.55	0.41
2:FB:960:ILE:O	2:FB:963:PHE:N	2.53	0.41
5:FE:15:ALA:HB1	5:FE:140:LEU:HB2	2.02	0.41
5:FE:182:ASP:HA	5:FE:183:PRO:HD3	1.96	0.41
7:FG:162:ILE:HA	7:FG:163:PRO:HD2	1.78	0.41
10:FJ:53:HIS:CG	10:FJ:54:VAL:N	2.88	0.41
1:AA:41:LEU:HA	1:AA:41:LEU:HD23	1.87	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:462:LYS:HD3	1:AA:469:LYS:NZ	2.35	0.41
1:AA:507:TYR:HB3	1:AA:579:ARG:NH1	2.34	0.41
1:AA:952:LEU:HD22	1:AA:952:LEU:HA	1.88	0.41
1:AA:956:ARG:HB3	1:AA:957:VAL:H	1.43	0.41
1:AA:1276:THR:HG23	1:AA:1288:ARG:NH1	2.31	0.41
2:AB:134:ARG:HB2	2:AB:161:LEU:C	2.41	0.41
2:AB:1011:GLU:HA	2:AB:1012:PRO:HD3	1.86	0.41
2:AB:1038:HIS:CE1	2:AB:1042:ASP:OD2	2.73	0.41
3:AC:136:LEU:HD12	3:AC:137:ASN:N	2.35	0.41
4:AD:24:ALA:HA	7:AG:43:ILE:HG22	2.02	0.41
6:AF:119:ARG:O	6:AF:122:MET:HB2	2.21	0.41
6:AF:153:VAL:O	6:AF:154:ASP:HB2	2.20	0.41
1:BA:43:HIS:HA	1:BA:44:PRO:HD3	1.91	0.41
1:BA:644:ARG:NH2	6:BF:118:LEU:HD23	2.35	0.41
1:BA:718:THR:HG22	8:BH:98:TYR:O	2.20	0.41
1:BA:1018:TYR:O	1:BA:1022:CYS:N	2.46	0.41
1:BA:1021:ARG:O	1:BA:1025:LYS:HB2	2.20	0.41
1:BA:1085:LEU:H	1:BA:1085:LEU:HG	1.52	0.41
1:BA:1116:GLN:HE21	5:BE:207:ARG:NE	2.18	0.41
1:BA:1600:ARG:HB2	1:BA:1616:GLU:OE1	2.20	0.41
2:BB:141:LEU:HD23	2:BB:450:LEU:HD11	2.03	0.41
2:BB:219:ARG:HA	2:BB:220:PRO:HD2	1.87	0.41
3:BC:285:PHE:C	3:BC:287:ASP:H	2.24	0.41
3:BC:310:PRO:O	3:BC:313:ILE:N	2.53	0.41
6:BF:69:LEU:O	6:BF:72:LYS:HB2	2.20	0.41
8:BH:63:LEU:CB	8:BH:88:SER:HB2	2.49	0.41
7:BO:301:LYS:NZ	7:BO:305:GLY:HA2	2.35	0.41
1:CA:121:LYS:O	1:CA:124:LEU:N	2.53	0.41
1:CA:393:SER:O	1:CA:396:ILE:HB	2.19	0.41
2:CB:467:THR:HB	2:CB:469:ASN:ND2	2.26	0.41
2:CB:492:ASN:OD1	2:CB:494:TYR:HB2	2.19	0.41
2:CB:617:THR:OG1	2:CB:620:LEU:HD23	2.20	0.41
2:CB:665:GLY:N	2:CB:668:GLU:OE1	2.47	0.41
2:CB:755:ASN:C	2:CB:757:TYR:N	2.74	0.41
2:CB:885:VAL:HA	2:CB:903:ILE:CG2	2.50	0.41
2:CB:954:PHE:H	2:CB:955:PRO:HD2	1.85	0.41
3:CC:117:ASP:O	3:CC:125:LYS:HG3	2.20	0.41
3:CC:190:ASP:O	3:CC:192:LEU:N	2.53	0.41
3:CC:333:ILE:HD11	11:CK:49:LEU:N	2.35	0.41
5:CE:198:ILE:HD12	5:CE:210:SER:OG	2.20	0.41
9:CI:103:SER:HB3	9:CI:104:ALA:H	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:4:SER:HB2	1:DA:573:LEU:CD2	2.51	0.41
1:DA:49:LEU:HD23	1:DA:49:LEU:HA	1.79	0.41
1:DA:1220:PRO:O	1:DA:1223:ARG:HB2	2.20	0.41
1:DA:1256:LYS:HD3	1:DA:1305:GLU:O	2.21	0.41
1:DA:1462:PHE:HB3	1:DA:1464:ASP:OD1	2.20	0.41
1:DA:1579:PHE:HA	1:DA:1582:LEU:HG	2.02	0.41
2:DB:260:PHE:CD2	2:DB:276:ILE:HG12	2.55	0.41
2:DB:637:TYR:HA	2:DB:638:PRO:HD3	1.88	0.41
2:DB:733:LEU:HD12	2:DB:904:LYS:NZ	2.35	0.41
8:DH:42:ILE:HD13	8:DH:95:TYR:CE2	2.54	0.41
8:DH:83:GLN:HB2	8:DH:84:ALA:H	1.53	0.41
8:DH:101:ALA:HB2	8:DH:116:TYR:HE1	1.85	0.41
14:DN:55:LEU:HD12	14:DN:56:ILE:N	2.33	0.41
14:DN:97:SER:OG	14:DN:98:SER:N	2.53	0.41
1:EA:76:GLN:N	1:EA:364:PRO:HG3	2.35	0.41
1:EA:113:VAL:H	1:EA:113:VAL:HG23	1.60	0.41
1:EA:425:ASN:OD1	7:EO:272:ILE:HG12	2.21	0.41
1:EA:495:ILE:HG22	1:EA:604:LYS:O	2.20	0.41
1:EA:595:LEU:HD22	1:EA:595:LEU:HA	1.82	0.41
1:EA:678:VAL:HG22	1:EA:781:LEU:O	2.19	0.41
1:EA:899:LYS:O	1:EA:903:ILE:HG12	2.19	0.41
1:EA:1447:GLN:HE22	1:EA:1459:LYS:HG2	1.84	0.41
2:EB:21:ARG:HG3	2:EB:763:ASP:HB3	2.02	0.41
2:EB:894:LYS:HB2	2:EB:894:LYS:HE3	1.88	0.41
3:EC:204:LEU:HG	3:EC:204:LEU:O	2.20	0.41
3:EC:228:ARG:NH1	14:EN:173:THR:H	2.18	0.41
5:EE:17:ARG:O	5:EE:20:LYS:HB2	2.20	0.41
6:EF:97:ARG:HG3	6:EF:101:ILE:CD1	2.50	0.41
7:EG:106:LYS:HG3	7:EG:107:ILE:N	2.35	0.41
9:EI:88:GLN:NE2	9:EI:117:CYS:SG	2.93	0.41
11:EK:93:ILE:HA	11:EK:94:PRO:HD2	1.85	0.41
14:EN:80:MET:HE3	14:EN:80:MET:HB2	1.76	0.41
7:EO:290:GLU:HA	7:EO:293:LYS:CD	2.50	0.41
1:FA:314:TYR:CD2	1:FA:424:MET:HG3	2.54	0.41
1:FA:457:LYS:O	1:FA:460:LEU:N	2.53	0.41
1:FA:751:SER:O	1:FA:769:VAL:N	2.48	0.41
2:FB:103:SER:O	2:FB:137:LEU:HD22	2.19	0.41
2:FB:163:VAL:HG12	2:FB:164:MET:N	2.35	0.41
2:FB:214:PRO:HB3	2:FB:377:MET:HE2	2.02	0.41
2:FB:961:GLY:HA2	2:FB:964:VAL:HG23	2.03	0.41
2:FB:1104:CYS:HB2	2:FB:1128:CYS:HB2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:FD:88:GLN:O	4:FD:92:ILE:HG13	2.20	0.41
7:FG:46:TYR:CD1	7:FG:117:TRP:CD1	3.09	0.41
13:FM:44:LYS:HA	13:FM:44:LYS:HD2	1.62	0.41
14:FN:72:VAL:HG22	14:FN:137:PHE:CE1	2.54	0.41
14:FN:109:LEU:O	14:FN:110:LEU:HD23	2.20	0.41
1:AA:103:LEU:HD11	1:AA:243:PHE:CZ	2.55	0.41
1:AA:731:ILE:O	1:AA:735:VAL:HG23	2.20	0.41
1:AA:1344:ILE:HG23	2:AB:271:VAL:HG22	2.02	0.41
2:AB:107:PRO:HG2	2:AB:133:TYR:CZ	2.55	0.41
2:AB:292:ILE:HD13	2:AB:292:ILE:HA	1.91	0.41
2:AB:417:ILE:O	2:AB:420:TYR:HB3	2.20	0.41
5:AE:186:LEU:HD22	5:AE:186:LEU:HA	1.79	0.41
10:AJ:3:VAL:HG12	10:AJ:15:GLY:HA2	2.02	0.41
12:AL:45:ALA:HB1	12:AL:47:ARG:HG2	2.02	0.41
14:AN:64:ILE:C	14:AN:66:LYS:H	2.22	0.41
1:BA:1637:PRO:CG	1:BA:1647:ASN:HD21	2.32	0.41
2:BB:505:ARG:HG3	2:BB:541:LEU:HD23	2.02	0.41
2:BB:586:VAL:HB	2:BB:593:ILE:HG22	2.01	0.41
3:BC:48:ASP:OD1	3:BC:49:ALA:N	2.52	0.41
3:BC:86:PHE:HB2	3:BC:203:SER:O	2.20	0.41
5:BE:182:ASP:OD2	5:BE:184:VAL:HG23	2.20	0.41
7:BG:162:ILE:HA	7:BG:163:PRO:HD2	1.85	0.41
11:BK:90:GLY:O	11:BK:103:ILE:HD13	2.20	0.41
12:BL:30:ILE:HD12	12:BL:59:ALA:HB2	2.02	0.41
13:BM:80:LEU:HD12	13:BM:91:TYR:CE1	2.56	0.41
13:BM:81:PHE:CD1	13:BM:88:ILE:HB	2.49	0.41
13:BM:112:LYS:O	13:BM:113:ILE:HG13	2.20	0.41
1:CA:345:LEU:H	1:CA:345:LEU:HG	1.25	0.41
1:CA:782:ASP:CG	1:CA:783:LYS:N	2.74	0.41
1:CA:912:VAL:HA	1:CA:913:PRO:HA	1.78	0.41
1:CA:1322:ILE:O	1:CA:1325:LEU:N	2.53	0.41
2:CB:1117:VAL:HG21	2:CB:1162:GLY:CA	2.50	0.41
3:CC:155:GLU:H	3:CC:155:GLU:HG2	1.69	0.41
3:CC:163:TYR:O	3:CC:166:ASP:HB2	2.21	0.41
4:CD:19:PRO:CB	4:CD:22:ILE:HD11	2.50	0.41
13:CM:59:ARG:O	13:CM:60:LEU:HD23	2.21	0.41
1:DA:213:ASN:ND2	1:DA:1606:SER:O	2.52	0.41
1:DA:372:LYS:HZ3	7:DO:297:LEU:CD2	2.33	0.41
1:DA:804:GLU:O	1:DA:805:VAL:C	2.58	0.41
1:DA:1095:LEU:HD21	1:DA:1134:GLY:HA3	2.03	0.41
2:DB:687:THR:HG1	2:DB:688:HIS:CE1	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:1011:GLU:HA	2:DB:1012:PRO:HD3	1.84	0.41
3:DC:303:GLU:O	3:DC:304:SER:HB2	2.20	0.41
5:DE:17:ARG:NH1	5:DE:36:GLU:HA	2.35	0.41
7:DG:166:TRP:CE2	7:DG:219:ASP:HB2	2.55	0.41
10:DJ:18:TRP:CE2	10:DJ:22:LEU:HD21	2.55	0.41
1:EA:642:ASN:O	1:EA:645:ALA:HB3	2.21	0.41
1:EA:756:LYS:C	1:EA:758:GLU:N	2.73	0.41
1:EA:987:TYR:C	1:EA:987:TYR:HD2	2.24	0.41
1:EA:1124:LEU:HD23	1:EA:1124:LEU:HA	1.68	0.41
1:EA:1493:CYS:C	1:EA:1495:LYS:H	2.22	0.41
2:EB:346:ASP:CG	13:EM:113:ILE:HA	2.41	0.41
2:EB:376:PHE:CD2	2:EB:376:PHE:C	2.92	0.41
2:EB:838:GLU:C	2:EB:840:LEU:H	2.23	0.41
2:EB:848:ILE:HD12	2:EB:885:VAL:CG2	2.50	0.41
3:EC:54:PHE:CE1	3:EC:300:PHE:HB3	2.54	0.41
3:EC:197:ARG:HB3	3:EC:198:PRO:HD2	2.02	0.41
13:EM:80:LEU:HD12	13:EM:91:TYR:CE1	2.55	0.41
1:FA:122:LEU:O	1:FA:126:GLN:HG3	2.20	0.41
1:FA:499:PRO:C	1:FA:501:PHE:N	2.74	0.41
1:FA:549:MET:SD	1:FA:553:GLN:NE2	2.93	0.41
1:FA:552:GLU:O	1:FA:555:LYS:N	2.53	0.41
1:FA:670:ILE:HD13	1:FA:670:ILE:H	1.85	0.41
1:FA:719:ILE:O	1:FA:724:PRO:HA	2.20	0.41
1:FA:750:ILE:H	1:FA:750:ILE:HG13	1.65	0.41
1:FA:830:MET:HB3	2:FB:1008:HIS:HB3	2.02	0.41
1:FA:987:TYR:C	1:FA:987:TYR:HD2	2.23	0.41
2:FB:59:GLY:O	2:FB:62:ASN:N	2.54	0.41
2:FB:154:GLU:HG2	2:FB:156:ARG:HD3	2.01	0.41
2:FB:244:THR:HG21	2:FB:414:LYS:HD3	2.02	0.41
2:FB:548:LYS:HA	2:FB:550:ARG:CZ	2.50	0.41
2:FB:663:ILE:HD12	2:FB:663:ILE:HA	1.49	0.41
2:FB:898:LEU:HD22	12:FL:46:VAL:HG22	2.01	0.41
3:FC:311:GLU:OE2	3:FC:311:GLU:N	2.49	0.41
9:FI:10:CYS:CB	9:FI:13:CYS:SG	3.06	0.41
12:FL:40:LEU:HD23	12:FL:40:LEU:HA	1.85	0.41
13:FM:12:ILE:HA	13:FM:88:ILE:HG23	2.01	0.41
13:FM:66:THR:HG22	13:FM:96:LEU:HG	2.02	0.41
14:FN:99:LEU:HD23	14:FN:99:LEU:HA	1.92	0.41
1:AA:3:ILE:HA	7:AG:111:THR:HG22	2.02	0.41
1:AA:58:LEU:HD11	7:AO:295:LEU:HD11	2.01	0.41
1:AA:1086:ILE:HD13	1:AA:1086:ILE:HA	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1322:ILE:CG2	1:AA:1457:ILE:HD11	2.46	0.41
1:AA:1601:GLN:C	1:AA:1603:MET:N	2.71	0.41
2:AB:954:PHE:N	2:AB:955:PRO:HD2	2.36	0.41
3:AC:48:ASP:CG	3:AC:49:ALA:N	2.74	0.41
8:AH:108:SER:O	8:AH:110:ASP:N	2.52	0.41
7:AO:276:LYS:O	7:AO:279:VAL:HG23	2.20	0.41
1:BA:10:GLU:CG	1:BA:1645:LYS:HE3	2.50	0.41
1:BA:82:PRO:HD3	1:BA:393:SER:OG	2.20	0.41
1:BA:669:LEU:HD23	1:BA:669:LEU:HA	1.60	0.41
1:BA:1055:ILE:HD13	1:BA:1055:ILE:HA	1.87	0.41
1:BA:1242:ILE:CD1	1:BA:1517:ARG:HB3	2.51	0.41
1:BA:1516:LYS:O	1:BA:1518:VAL:HB	2.20	0.41
2:BB:215:MET:CE	2:BB:394:PRO:HB3	2.50	0.41
2:BB:262:PHE:CD1	2:BB:357:ILE:HG12	2.54	0.41
2:BB:859:CYS:SG	2:BB:860:ALA:N	2.93	0.41
3:BC:80:ALA:HA	3:BC:208:CYS:HB3	2.02	0.41
10:BJ:68:LYS:NZ	10:BJ:68:LYS:HB2	2.36	0.41
1:CA:750:ILE:H	1:CA:750:ILE:HG13	1.64	0.41
2:CB:107:PRO:HG2	2:CB:133:TYR:CZ	2.54	0.41
2:CB:732:ALA:O	2:CB:736:ARG:HG3	2.20	0.41
2:CB:778:TYR:HB3	2:CB:779:THR:H	1.61	0.41
2:CB:778:TYR:CE2	2:CB:937:PRO:HD3	2.55	0.41
2:CB:1013:MET:O	2:CB:1022:LEU:HG	2.20	0.41
2:CB:1178:ILE:HB	2:CB:1182:LEU:HD23	2.02	0.41
5:CE:106:GLN:O	5:CE:131:THR:HG23	2.20	0.41
7:CG:155:ALA:HA	7:CG:245:VAL:HB	2.02	0.41
11:CK:83:ASN:HA	11:CK:84:PRO:HD2	1.91	0.41
13:CM:20:SER:O	14:CN:112:PRO:HD3	2.21	0.41
7:CO:280:PHE:O	7:CO:281:ASP:C	2.58	0.41
1:DA:90:PHE:HE1	1:DA:1623:THR:HG23	1.85	0.41
1:DA:91:PHE:CG	1:DA:249:THR:HG22	2.56	0.41
1:DA:197:LEU:HD21	1:DA:203:THR:O	2.20	0.41
1:DA:363:PRO:O	1:DA:368:ARG:NE	2.52	0.41
1:DA:467:PHE:O	1:DA:471:MET:HB2	2.20	0.41
1:DA:501:PHE:O	1:DA:504:LYS:N	2.24	0.41
1:DA:657:TYR:O	1:DA:665:PRO:HA	2.21	0.41
1:DA:696:ILE:O	1:DA:700:ILE:HG13	2.20	0.41
1:DA:892:LEU:HG	1:DA:893:ASP:OD1	2.20	0.41
1:DA:1337:LYS:H	1:DA:1337:LYS:HG2	1.73	0.41
1:DA:1447:GLN:HE22	1:DA:1459:LYS:HG2	1.85	0.41
1:DA:1474:LEU:HD22	1:DA:1474:LEU:HA	1.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:1596:LEU:HA	1:DA:1596:LEU:HD23	1.77	0.41
1:DA:1601:GLN:C	1:DA:1603:MET:N	2.71	0.41
2:DB:834:LYS:O	2:DB:837:LEU:N	2.46	0.41
3:DC:333:ILE:HD12	3:DC:333:ILE:HA	1.86	0.41
5:DE:178:ILE:HD12	5:DE:179:GLN:N	2.35	0.41
7:DG:105:ILE:HG12	7:DG:116:THR:CB	2.46	0.41
14:DN:58:PHE:HA	14:DN:139:VAL:CG2	2.46	0.41
1:EA:28:SER:CB	1:EA:78:HIS:HD1	2.32	0.41
1:EA:345:LEU:H	1:EA:345:LEU:HG	1.34	0.41
1:EA:611:GLU:CD	1:EA:615:ARG:HD2	2.40	0.41
1:EA:888:LYS:CG	9:EI:69:THR:HG22	2.50	0.41
1:EA:1021:ARG:O	1:EA:1025:LYS:HB2	2.21	0.41
1:EA:1021:ARG:HH12	1:EA:1615:TYR:HA	1.84	0.41
1:EA:1024:THR:O	1:EA:1028:GLU:N	2.54	0.41
1:EA:1073:TYR:CE1	1:EA:1077:LEU:HD22	2.55	0.41
1:EA:1176:ARG:HD3	6:EF:84:TYR:HE1	1.86	0.41
2:EB:158:CYS:O	2:EB:457:ILE:N	2.52	0.41
2:EB:215:MET:CE	2:EB:394:PRO:HB3	2.49	0.41
2:EB:250:LEU:CD1	2:EB:378:ILE:HD13	2.51	0.41
2:EB:745:GLN:NE2	2:EB:745:GLN:HA	2.35	0.41
2:EB:1094:ASN:OD1	2:EB:1094:ASN:N	2.53	0.41
3:EC:233:ILE:HA	3:EC:233:ILE:HD13	1.70	0.41
4:ED:22:ILE:O	4:ED:23:HIS:ND1	2.54	0.41
6:EF:103:MET:O	7:EG:51:PRO:HG2	2.20	0.41
7:EG:139:ILE:HD13	7:EG:139:ILE:HA	1.94	0.41
10:EJ:8:PHE:HD1	10:EJ:8:PHE:HA	1.67	0.41
10:EJ:41:LEU:HD22	10:EJ:46:CYS:HB3	2.02	0.41
1:FA:62:CYS:SG	1:FA:64:THR:N	2.89	0.41
1:FA:354:SER:HB2	1:FA:355:PHE:HD1	1.85	0.41
1:FA:431:GLN:O	1:FA:434:VAL:HB	2.20	0.41
1:FA:499:PRO:O	1:FA:501:PHE:N	2.53	0.41
1:FA:581:ILE:HB	1:FA:637:PHE:CE2	2.56	0.41
1:FA:934:LYS:HB3	2:FB:955:PRO:HG2	2.03	0.41
1:FA:1137:SER:HB2	5:FE:205:SER:HB2	2.01	0.41
1:FA:1527:GLN:HA	1:FA:1530:TRP:CE3	2.55	0.41
2:FB:262:PHE:O	2:FB:268:GLU:HG2	2.20	0.41
2:FB:393:ASN:HD21	2:FB:395:ASP:HB2	1.86	0.41
2:FB:561:ILE:HB	2:FB:562:PRO:HD3	2.02	0.41
2:FB:575:HIS:HE2	13:FM:76:TYR:HH	1.54	0.41
2:FB:902:SER:O	2:FB:903:ILE:HG23	2.19	0.41
2:FB:1151:ILE:HD13	7:FG:21:LYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:1189:LEU:HD22	2:FB:1189:LEU:HA	1.55	0.41
5:FE:55:ARG:HB3	5:FE:82:PHE:HB3	2.02	0.41
7:FG:45:LEU:O	7:FG:117:TRP:HA	2.21	0.41
7:FG:62:MET:HA	7:FG:66:LEU:HB2	2.01	0.41
11:FK:114:VAL:O	11:FK:117:LEU:HB3	2.21	0.41
14:FN:144:LYS:O	14:FN:146:PRO:HD3	2.20	0.41
1:AA:457:LYS:C	1:AA:459:ALA:H	2.23	0.41
1:AA:736:LEU:HD22	1:AA:736:LEU:HA	1.65	0.41
1:AA:1170:MET:O	1:AA:1173:LYS:N	2.53	0.41
1:AA:1258:ILE:HB	1:AA:1501:ILE:HD12	2.01	0.41
1:AA:1463:ASP:C	1:AA:1465:GLU:N	2.72	0.41
2:AB:565:LEU:HD23	2:AB:565:LEU:HA	1.77	0.41
2:AB:628:TYR:HD1	2:AB:640:LEU:HD13	1.85	0.41
2:AB:954:PHE:H	2:AB:955:PRO:HD2	1.85	0.41
2:AB:1201:GLU:HG3	2:AB:1203:LYS:H	1.84	0.41
3:AC:117:ASP:O	3:AC:125:LYS:HG3	2.21	0.41
7:AG:31:LYS:O	7:AG:33:GLY:N	2.53	0.41
11:AK:77:ARG:HG3	11:AK:78:TYR:N	2.35	0.41
13:AM:21:VAL:HB	14:AN:109:LEU:HD11	2.03	0.41
1:BA:1506:ARG:CZ	1:BA:1506:ARG:HB2	2.48	0.41
1:BA:1543:SER:OG	1:BA:1544:ASN:N	2.52	0.41
1:BA:1564:ASN:O	1:BA:1567:ASN:HB3	2.21	0.41
2:BB:570:VAL:HG13	2:BB:596:VAL:HG13	2.02	0.41
2:BB:687:THR:HG1	2:BB:688:HIS:CE1	2.38	0.41
2:BB:733:LEU:HD22	10:BJ:60:PHE:HE2	1.85	0.41
4:BD:89:LEU:HA	4:BD:89:LEU:HD23	1.79	0.41
7:BG:46:TYR:CD1	7:BG:117:TRP:HD1	2.38	0.41
1:CA:41:LEU:HD23	1:CA:41:LEU:HA	1.86	0.41
1:CA:669:LEU:HD13	1:CA:673:HIS:CB	2.47	0.41
1:CA:751:SER:OG	1:CA:752:LYS:N	2.54	0.41
1:CA:855:ARG:HH12	1:CA:867:ASP:C	2.24	0.41
1:CA:1159:ASP:O	1:CA:1161:VAL:HG23	2.21	0.41
1:CA:1258:ILE:O	1:CA:1501:ILE:HG13	2.21	0.41
1:CA:1348:VAL:HG13	2:CB:268:GLU:O	2.20	0.41
2:CB:164:MET:HE3	2:CB:194:PHE:CZ	2.55	0.41
2:CB:283:THR:OG1	2:CB:284:SER:N	2.54	0.41
2:CB:296:ASP:O	2:CB:298:LYS:N	2.53	0.41
2:CB:637:TYR:HA	2:CB:638:PRO:HD3	1.82	0.41
2:CB:702:ASN:OD1	2:CB:756:LEU:HD13	2.20	0.41
2:CB:792:SER:HB3	2:CB:796:ARG:NH2	2.35	0.41
2:CB:824:HIS:O	2:CB:861:TYR:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:58:LEU:HD23	7:CG:89:ILE:HD11	2.02	0.41
7:CG:100:THR:O	7:CG:102:GLU:N	2.54	0.41
13:CM:8:SER:HB2	14:CN:73:ASP:OD1	2.20	0.41
1:DA:499:PRO:C	1:DA:501:PHE:N	2.73	0.41
1:DA:964:LYS:HE2	1:DA:964:LYS:HB3	1.71	0.41
1:DA:964:LYS:HZ3	1:DA:967:PRO:HA	1.85	0.41
1:DA:1168:ALA:O	1:DA:1171:GLN:N	2.54	0.41
1:DA:1272:VAL:HG12	1:DA:1273:THR:N	2.32	0.41
2:DB:128:GLN:NE2	2:DB:735:HIS:HA	2.35	0.41
2:DB:771:ALA:O	2:DB:1030:VAL:HG12	2.20	0.41
3:DC:192:LEU:HD12	3:DC:192:LEU:HA	1.89	0.41
3:DC:235:ILE:H	3:DC:235:ILE:HG12	1.51	0.41
8:DH:30:SER:OG	8:DH:33:GLN:N	2.38	0.41
1:EA:98:LEU:HA	1:EA:324:LEU:HD21	2.01	0.41
1:EA:473:GLY:HA2	2:EB:1071:VAL:O	2.19	0.41
1:EA:600:MET:SD	2:EB:1079:LEU:HD21	2.61	0.41
1:EA:719:ILE:CG1	8:EH:97:MET:HG2	2.42	0.41
1:EA:905:SER:OG	1:EA:906:GLN:N	2.53	0.41
2:EB:70:GLU:HG2	2:EB:97:VAL:O	2.20	0.41
2:EB:75:ASP:OD1	2:EB:75:ASP:N	2.52	0.41
2:EB:624:LEU:HD12	2:EB:625:GLU:H	1.85	0.41
2:EB:783:MET:O	2:EB:784:ASP:C	2.59	0.41
2:EB:977:ILE:HD13	2:EB:978:ALA:O	2.20	0.41
3:EC:193:LEU:HA	3:EC:193:LEU:HD12	1.77	0.41
5:EE:37:LEU:HD12	5:EE:37:LEU:HA	1.96	0.41
1:FA:659:THR:HG23	1:FA:664:SER:O	2.19	0.41
1:FA:821:ILE:CD1	2:FB:777:SER:HB2	2.51	0.41
1:FA:1459:LYS:HE3	1:FA:1459:LYS:HB3	1.92	0.41
1:FA:1546:VAL:HG21	1:FA:1595:TYR:CE2	2.55	0.41
1:FA:1612:LYS:O	1:FA:1615:TYR:N	2.48	0.41
2:FB:203:ILE:H	2:FB:203:ILE:HD12	1.85	0.41
2:FB:208:VAL:HG23	2:FB:401:GLU:HG2	2.03	0.41
2:FB:374:LEU:O	2:FB:378:ILE:HG12	2.20	0.41
2:FB:397:THR:HG1	2:FB:523:GLU:C	2.24	0.41
2:FB:483:GLY:C	2:FB:484:TYR:HD2	2.23	0.41
2:FB:658:LEU:HD12	2:FB:658:LEU:HA	1.94	0.41
2:FB:699:ILE:HD13	2:FB:699:ILE:N	2.34	0.41
2:FB:785:ASP:HB3	2:FB:957:ARG:HH22	1.85	0.41
2:FB:825:PHE:CE2	2:FB:899:GLN:HA	2.52	0.41
3:FC:240:LYS:HB2	3:FC:240:LYS:HE3	1.86	0.41
5:FE:144:ILE:N	5:FE:144:ILE:HD13	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FF:100:GLN:HG2	7:FG:112:PRO:CB	2.50	0.41
8:FH:12:VAL:HG12	8:FH:51:ALA:HA	2.03	0.41
13:FM:23:VAL:HB	13:FM:95:VAL:HG22	2.02	0.41
13:FM:65:TYR:C	13:FM:65:TYR:CD2	2.94	0.41
1:AA:98:LEU:HA	1:AA:324:LEU:HD21	2.03	0.41
1:AA:509:GLU:HA	1:AA:510:PRO:HD3	1.82	0.41
1:AA:584:ARG:HD3	6:AF:116:ASP:OD2	2.21	0.41
1:AA:733:THR:HG23	1:AA:774:GLY:O	2.20	0.41
1:AA:1261:VAL:O	1:AA:1498:ILE:HB	2.21	0.41
1:AA:1292:ILE:CD1	1:AA:1473:LYS:H	2.26	0.41
3:AC:67:PHE:HE1	3:AC:318:VAL:HA	1.85	0.41
5:AE:72:PHE:CZ	5:AE:155:ARG:HG2	2.54	0.41
5:AE:112:TYR:CE1	5:AE:136:ASN:HB2	2.55	0.41
7:AG:165:ASP:OD2	7:AG:220:SER:HA	2.20	0.41
8:AH:63:LEU:CB	8:AH:88:SER:HB2	2.48	0.41
8:AH:83:GLN:HB2	8:AH:84:ALA:H	1.57	0.41
13:AM:16:GLN:HB3	13:AM:92:LYS:H	1.84	0.41
1:BA:522:ALA:O	1:BA:525:ASN:N	2.53	0.41
1:BA:665:PRO:HB2	1:BA:788:ALA:HA	2.02	0.41
1:BA:706:HIS:CD2	1:BA:739:VAL:HA	2.56	0.41
1:BA:830:MET:HE2	2:BB:967:LEU:HD11	2.03	0.41
1:BA:964:LYS:HB3	1:BA:964:LYS:HE2	1.74	0.41
1:BA:969:PHE:CD2	1:BA:978:ALA:HA	2.56	0.41
2:BB:122:TYR:CE2	2:BB:183:HIS:CD2	3.09	0.41
2:BB:156:ARG:HD2	2:BB:156:ARG:HA	1.52	0.41
2:BB:271:VAL:HB	2:BB:276:ILE:HD11	2.03	0.41
2:BB:345:SER:HA	13:BM:113:ILE:HG13	2.03	0.41
2:BB:416:LYS:HD2	2:BB:460:LYS:HD2	2.01	0.41
5:BE:23:VAL:HG12	5:BE:28:TYR:HB2	2.02	0.41
5:BE:26:ARG:NH2	5:BE:133:GLU:OE1	2.52	0.41
8:BH:47:PHE:O	8:BH:49:VAL:HG23	2.21	0.41
9:BI:95:ASN:HB2	9:BI:113:THR:HB	2.02	0.41
13:BM:89:GLN:O	13:BM:90:LEU:HD23	2.20	0.41
14:BN:160:VAL:H	14:BN:160:VAL:HG23	1.61	0.41
1:CA:469:LYS:NZ	1:CA:470:HIS:HE1	2.19	0.41
1:CA:696:ILE:O	1:CA:700:ILE:HG13	2.21	0.41
1:CA:790:LYS:C	1:CA:792:GLY:H	2.24	0.41
1:CA:947:LEU:HD13	1:CA:982:VAL:HG11	2.03	0.41
1:CA:1222:LEU:HA	1:CA:1225:ILE:HD12	2.03	0.41
1:CA:1555:VAL:HG11	5:CE:178:ILE:HD13	2.03	0.41
2:CB:966:SER:HB3	2:CB:967:LEU:H	1.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:1053:ASN:ND2	2:CB:1054:SER:N	2.69	0.41
2:CB:1137:ASP:O	2:CB:1140:LYS:HB2	2.20	0.41
3:CC:121:PRO:O	3:CC:125:LYS:HB2	2.21	0.41
3:CC:216:HIS:O	3:CC:218:LYS:N	2.54	0.41
4:CD:94:ARG:NH2	4:CD:100:PRO:HG2	2.36	0.41
8:CH:59:ILE:HG12	8:CH:141:TYR:O	2.21	0.41
1:DA:31:GLN:NE2	1:DA:32:ILE:O	2.47	0.41
1:DA:477:ASN:OD1	2:DB:1049:THR:HG23	2.20	0.41
1:DA:495:ILE:HG22	1:DA:604:LYS:O	2.20	0.41
1:DA:821:ILE:CD1	2:DB:777:SER:HB2	2.50	0.41
1:DA:1168:ALA:HA	1:DA:1171:GLN:OE1	2.21	0.41
1:DA:1589:MET:O	1:DA:1596:LEU:HB2	2.21	0.41
2:DB:210:ARG:HB2	2:DB:399:HIS:C	2.41	0.41
2:DB:359:LEU:HD23	2:DB:359:LEU:HA	1.57	0.41
2:DB:844:GLY:HA2	2:DB:860:ALA:HB3	2.02	0.41
2:DB:848:ILE:HB	12:DL:60:ARG:HG3	2.01	0.41
3:DC:67:PHE:O	3:DC:71:MET:HG2	2.21	0.41
3:DC:229:LEU:O	3:DC:231:PRO:HD3	2.21	0.41
3:DC:253:PRO:C	3:DC:255:VAL:H	2.24	0.41
7:DG:38:ILE:H	7:DG:38:ILE:HG13	1.29	0.41
12:DL:63:ARG:CG	12:DL:64:LEU:H	2.25	0.41
1:EA:36:THR:HG22	1:EA:37:VAL:N	2.36	0.41
1:EA:113:VAL:HG11	1:EA:181:LEU:HD23	2.03	0.41
1:EA:213:ASN:ND2	1:EA:1606:SER:O	2.54	0.41
1:EA:1102:LEU:HD12	1:EA:1105:ARG:HE	1.85	0.41
1:EA:1241:PRO:HG3	1:EA:1540:GLY:CA	2.51	0.41
1:EA:1256:LYS:HD3	1:EA:1305:GLU:O	2.20	0.41
1:EA:1507:CYS:SG	1:EA:1519:LEU:HB2	2.60	0.41
2:EB:15:ASP:O	2:EB:753:LYS:HE3	2.20	0.41
2:EB:731:VAL:HG13	10:EJ:60:PHE:CD1	2.56	0.41
3:EC:70:ILE:HG21	3:EC:317:SER:HA	2.01	0.41
3:EC:82:TYR:HB3	3:EC:84:TYR:HE1	1.85	0.41
3:EC:136:LEU:HD13	3:EC:166:ASP:O	2.20	0.41
7:EG:134:GLU:O	7:EG:149:ILE:HG23	2.19	0.41
1:FA:759:TYR:CE1	1:FA:913:PRO:HG3	2.55	0.41
1:FA:968:SER:O	1:FA:968:SER:OG	2.36	0.41
1:FA:1032:VAL:O	1:FA:1182:GLY:N	2.54	0.41
1:FA:1237:GLN:HB3	1:FA:1520:VAL:CG1	2.51	0.41
2:FB:210:ARG:NH2	2:FB:625:GLU:CD	2.74	0.41
2:FB:873:THR:HG1	2:FB:875:HIS:CD2	2.38	0.41
2:FB:1076:ARG:O	2:FB:1080:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:FI:65:SER:OG	9:FI:66:VAL:N	2.54	0.41
9:FI:109:THR:HG21	9:FI:122:ARG:CZ	2.51	0.41
13:FM:20:SER:O	14:FN:112:PRO:HD3	2.20	0.41
1:AA:818:THR:O	1:AA:821:ILE:HG22	2.20	0.41
1:AA:1159:ASP:O	1:AA:1161:VAL:N	2.53	0.41
1:AA:1658:ALA:CB	7:AG:107:ILE:HD11	2.48	0.41
2:AB:46:ILE:HG22	2:AB:50:ASN:HD21	1.84	0.41
2:AB:72:VAL:HA	2:AB:95:LEU:O	2.20	0.41
2:AB:567:SER:HB2	14:AN:59:PRO:CB	2.44	0.41
2:AB:858:ILE:HD11	2:AB:872:LYS:HB3	2.02	0.41
3:AC:254:GLY:O	3:AC:268:LYS:HB2	2.19	0.41
5:AE:154:ILE:HB	5:AE:197:LYS:HB3	2.02	0.41
7:AG:237:HIS:O	7:AG:244:SER:HB3	2.21	0.41
13:AM:16:GLN:HE21	13:AM:18:GLN:H	1.69	0.41
1:BA:176:THR:HA	1:BA:179:ASN:ND2	2.36	0.41
1:BA:547:ILE:C	1:BA:549:MET:H	2.24	0.41
1:BA:733:THR:HG23	1:BA:774:GLY:O	2.21	0.41
1:BA:949:GLN:HA	1:BA:981:TYR:HA	2.02	0.41
1:BA:1222:LEU:HA	1:BA:1225:ILE:HD12	2.02	0.41
1:BA:1585:ILE:H	1:BA:1585:ILE:HG12	1.21	0.41
1:BA:1604:GLU:HA	1:BA:1612:LYS:HE2	2.02	0.41
2:BB:104:ILE:CB	2:BB:169:ARG:HG3	2.47	0.41
2:BB:332:ASP:HB3	13:BM:114:LYS:HE3	2.03	0.41
2:BB:463:TYR:C	2:BB:463:TYR:CD1	2.93	0.41
2:BB:665:GLY:N	2:BB:668:GLU:OE1	2.49	0.41
2:BB:1026:ILE:CD1	2:BB:1028:VAL:HG13	2.50	0.41
3:BC:137:ASN:OD1	3:BC:203:SER:HB2	2.20	0.41
3:BC:303:GLU:O	3:BC:304:SER:HB2	2.21	0.41
4:BD:93:GLN:O	4:BD:97:LYS:HE3	2.20	0.41
5:BE:12:LEU:HG	5:BE:58:MET:HE1	2.03	0.41
6:BF:75:PRO:HG2	6:BF:78:GLN:OE1	2.21	0.41
14:BN:84:LYS:HB2	14:BN:84:LYS:HE2	1.93	0.41
1:CA:37:VAL:HG22	1:CA:49:LEU:HB2	2.02	0.41
1:CA:618:TYR:O	1:CA:620:ASN:N	2.53	0.41
1:CA:1008:ASP:OD1	2:CB:515:THR:HG21	2.20	0.41
1:CA:1022:CYS:HA	1:CA:1615:TYR:OH	2.20	0.41
1:CA:1290:TYR:O	1:CA:1473:LYS:HG3	2.21	0.41
1:CA:1484:LEU:HD23	1:CA:1484:LEU:HA	1.82	0.41
2:CB:45:HIS:CE1	2:CB:205:MET:SD	3.14	0.41
2:CB:392:ASP:HB3	2:CB:399:HIS:NE2	2.35	0.41
2:CB:398:GLN:HB3	2:CB:399:HIS:ND1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:CB:789:ILE:CD1	2:CB:947:ILE:HG12	2.50	0.41
4:CD:88:GLN:NE2	4:CD:91:ARG:HH21	2.18	0.41
5:CE:82:PHE:CZ	5:CE:111:VAL:HG21	2.56	0.41
5:CE:148:GLU:H	5:CE:148:GLU:HG3	1.53	0.41
6:CF:86:THR:HG23	6:CF:89:GLU:OE1	2.19	0.41
7:CG:97:LYS:H	7:CG:97:LYS:HG3	1.52	0.41
9:CI:95:ASN:O	9:CI:96:TYR:HB3	2.20	0.41
13:CM:66:THR:HB	13:CM:71:GLN:HG3	2.02	0.41
14:CN:75:GLU:C	14:CN:91:ASP:HB3	2.41	0.41
1:DA:324:LEU:HA	1:DA:324:LEU:HD23	1.78	0.41
1:DA:1056:ASP:OD1	1:DA:1057:ILE:N	2.54	0.41
2:DB:35:PHE:O	2:DB:38:LEU:HD23	2.20	0.41
2:DB:559:SER:O	2:DB:561:ILE:N	2.50	0.41
2:DB:604:ILE:O	2:DB:607:THR:HB	2.20	0.41
2:DB:698:SER:O	2:DB:702:ASN:HB2	2.21	0.41
3:DC:222:VAL:C	3:DC:224:THR:H	2.24	0.41
8:DH:12:VAL:HB	8:DH:53:ASP:H	1.86	0.41
8:DH:12:VAL:HG12	8:DH:51:ALA:HA	2.02	0.41
8:DH:107:VAL:HG23	8:DH:107:VAL:H	1.55	0.41
10:DJ:56:LEU:O	10:DJ:59:LYS:HB2	2.21	0.41
12:DL:64:LEU:HD12	12:DL:65:VAL:N	2.36	0.41
1:EA:11:ILE:H	1:EA:11:ILE:HG13	1.56	0.41
1:EA:103:LEU:HD11	1:EA:243:PHE:CZ	2.56	0.41
1:EA:456:VAL:O	1:EA:459:ALA:HB3	2.20	0.41
1:EA:499:PRO:C	1:EA:501:PHE:N	2.74	0.41
1:EA:778:CYS:SG	1:EA:779:GLY:N	2.93	0.41
1:EA:1196:PRO:C	1:EA:1198:THR:H	2.22	0.41
1:EA:1202:LEU:HD21	9:EI:101:LEU:HD21	2.02	0.41
1:EA:1264:SER:O	9:EI:56:PHE:HB3	2.20	0.41
1:EA:1532:GLN:O	1:EA:1535:PHE:HB2	2.21	0.41
2:EB:23:SER:HA	2:EB:26:ILE:CD1	2.50	0.41
2:EB:919:SER:OG	2:EB:920:ARG:N	2.52	0.41
2:EB:972:GLY:O	2:EB:977:ILE:N	2.53	0.41
3:EC:47:LEU:HD23	3:EC:48:ASP:N	2.36	0.41
5:EE:112:TYR:CZ	5:EE:136:ASN:HB2	2.56	0.41
7:EG:31:LYS:O	7:EG:33:GLY:N	2.53	0.41
7:EG:58:LEU:HD23	7:EG:89:ILE:HD11	2.02	0.41
7:EG:97:LYS:H	7:EG:97:LYS:HG3	1.53	0.41
8:EH:57:VAL:HG13	8:EH:144:ILE:CG1	2.45	0.41
10:EJ:2:ILE:HG23	10:EJ:3:VAL:N	2.34	0.41
11:EK:53:ALA:HB1	11:EK:104:ARG:HH12	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:213:ASN:ND2	1:FA:1606:SER:O	2.54	0.41
1:FA:732:ILE:H	1:FA:732:ILE:HG12	1.27	0.41
1:FA:771:PHE:HE2	1:FA:776:LEU:HB2	1.84	0.41
1:FA:993:GLN:CD	2:FB:676:VAL:HG21	2.41	0.41
1:FA:1182:GLY:O	1:FA:1183:GLU:C	2.59	0.41
1:FA:1347:ALA:HB2	2:FB:269:TYR:CE2	2.55	0.41
1:FA:1481:GLU:O	1:FA:1482:LYS:C	2.58	0.41
2:FB:625:GLU:O	2:FB:642:LEU:HD13	2.20	0.41
2:FB:809:VAL:HG12	2:FB:901:VAL:HB	2.03	0.41
2:FB:1103:VAL:HG12	2:FB:1110:ILE:HG22	2.03	0.41
3:FC:131:THR:HG22	3:FC:132:ILE:H	1.86	0.41
3:FC:132:ILE:HG23	3:FC:132:ILE:HD12	1.82	0.41
3:FC:173:GLY:C	3:FC:175:GLN:H	2.24	0.41
3:FC:204:LEU:O	3:FC:204:LEU:HG	2.21	0.41
5:FE:170:LEU:HD13	5:FE:175:LEU:HD23	2.03	0.41
11:FK:68:GLU:HG2	11:FK:72:LEU:HD23	2.03	0.41
13:FM:30:PHE:CE1	13:FM:62:TYR:HE2	2.38	0.41
1:AA:82:PRO:HD3	1:AA:393:SER:OG	2.21	0.41
1:AA:447:THR:HG1	1:AA:451:VAL:N	2.18	0.41
1:AA:495:ILE:HG22	1:AA:604:LYS:O	2.21	0.41
1:AA:1264:SER:HA	1:AA:1267:ILE:HD12	2.02	0.41
1:AA:1556:GLU:O	1:AA:1559:ARG:HB3	2.20	0.41
2:AB:72:VAL:HG13	2:AB:95:LEU:O	2.20	0.41
2:AB:162:PRO:HB2	2:AB:409:TYR:OH	2.19	0.41
2:AB:260:PHE:HD2	2:AB:276:ILE:HG12	1.86	0.41
2:AB:306:LEU:HD23	2:AB:310:LEU:HG	2.02	0.41
2:AB:1053:ASN:HD22	2:AB:1054:SER:H	1.69	0.41
2:AB:1092:LEU:HD22	2:AB:1092:LEU:HA	1.85	0.41
2:AB:1195:ARG:NH2	2:AB:1197:ARG:HD2	2.32	0.41
3:AC:54:PHE:CZ	3:AC:300:PHE:HB3	2.56	0.41
3:AC:79:ALA:HB3	3:AC:219:PHE:CE1	2.55	0.41
6:AF:138:LEU:HA	6:AF:139:PRO:HD3	1.89	0.41
8:AH:5:LEU:CB	8:AH:60:ALA:HA	2.41	0.41
1:BA:386:LEU:O	1:BA:389:VAL:HB	2.21	0.41
1:BA:423:LEU:HD23	1:BA:423:LEU:HA	1.77	0.41
1:BA:621:THR:HG23	1:BA:626:ALA:HB3	2.03	0.41
1:BA:1095:LEU:CD2	1:BA:1134:GLY:HA3	2.50	0.41
2:BB:203:ILE:H	2:BB:203:ILE:CD1	2.22	0.41
2:BB:234:ILE:O	2:BB:249:VAL:HA	2.21	0.41
2:BB:387:GLY:O	2:BB:634:ARG:HG3	2.21	0.41
2:BB:542:LEU:HD23	2:BB:542:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:BB:655:TYR:HD1	2:BB:688:HIS:NE2	2.18	0.41
2:BB:1108:GLY:O	2:BB:1198:TYR:HD2	2.04	0.41
3:BC:269:ASP:OD1	3:BC:272:LYS:HE3	2.20	0.41
5:BE:170:LEU:HD13	5:BE:175:LEU:HD23	2.02	0.41
7:BG:57:PRO:CG	7:BG:58:LEU:H	2.34	0.41
7:BG:243:VAL:H	7:BG:243:VAL:HG13	1.45	0.41
8:BH:63:LEU:HB3	8:BH:89:LEU:N	2.35	0.41
13:BM:30:PHE:HE1	13:BM:62:TYR:HE2	1.69	0.41
1:CA:123:ARG:HH11	1:CA:123:ARG:HG2	1.86	0.41
1:CA:988:SER:O	2:CB:709:PHE:HE2	2.03	0.41
1:CA:1323:HIS:CD2	1:CA:1454:HIS:HD2	2.39	0.41
1:CA:1532:GLN:O	1:CA:1535:PHE:HB2	2.20	0.41
1:CA:1646:LEU:HD11	2:CB:1085:SER:HB3	2.02	0.41
2:CB:452:ARG:HE	2:CB:452:ARG:HB2	1.75	0.41
2:CB:890:ASP:OD2	2:CB:892:SER:OG	2.35	0.41
2:CB:944:GLN:HA	2:CB:945:PRO:HD3	1.72	0.41
2:CB:949:ILE:HG13	2:CB:950:ASN:N	2.35	0.41
8:CH:12:VAL:HB	8:CH:53:ASP:H	1.85	0.41
11:CK:80:ILE:HG22	11:CK:86:VAL:HG21	2.03	0.41
13:CM:14:SER:O	13:CM:90:LEU:N	2.50	0.41
14:CN:160:VAL:H	14:CN:160:VAL:HG23	1.61	0.41
1:DA:382:GLN:O	1:DA:386:LEU:HG	2.20	0.41
1:DA:706:HIS:CD2	1:DA:739:VAL:HA	2.56	0.41
1:DA:879:LEU:O	1:DA:883:LEU:N	2.46	0.41
1:DA:1229:ALA:HB2	1:DA:1597:ALA:HB2	2.02	0.41
1:DA:1254:PHE:CD1	1:DA:1535:PHE:HD1	2.39	0.41
1:DA:1275:THR:HG22	9:DI:46:LYS:HB2	2.02	0.41
1:DA:1549:VAL:HG21	1:DA:1561:THR:HG21	2.02	0.41
2:DB:38:LEU:HD13	2:DB:38:LEU:HA	1.88	0.41
2:DB:350:GLY:O	2:DB:353:VAL:HB	2.20	0.41
2:DB:360:VAL:HA	2:DB:370:LYS:NZ	2.16	0.41
2:DB:910:THR:HA	2:DB:911:PRO:HD3	1.96	0.41
2:DB:913:ILE:HD11	2:DB:929:ARG:N	2.36	0.41
2:DB:1002:LYS:HZ2	14:DN:166:LEU:HD13	1.85	0.41
3:DC:40:PHE:CE2	11:DK:131:VAL:HG22	2.55	0.41
3:DC:225:ALA:HB2	3:DC:302:VAL:HG13	2.03	0.41
5:DE:186:LEU:HD22	5:DE:186:LEU:HA	1.81	0.41
6:DF:86:THR:HG23	6:DF:89:GLU:OE1	2.20	0.41
6:DF:106:PRO:HG2	7:DG:55:GLU:HG2	2.02	0.41
1:EA:114:GLU:O	1:EA:117:ARG:N	2.54	0.41
1:EA:457:LYS:C	1:EA:459:ALA:N	2.73	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:574:ASN:ND2	6:EF:104:ASN:HD21	2.19	0.41
2:EB:824:HIS:O	2:EB:861:TYR:HB2	2.21	0.41
2:EB:929:ARG:HH21	11:EK:95:HIS:HE1	1.68	0.41
3:EC:325:ALA:O	3:EC:328:LEU:HB2	2.21	0.41
1:FA:481:ARG:O	2:FB:1044:PHE:HA	2.19	0.41
1:FA:756:LYS:C	1:FA:758:GLU:N	2.73	0.41
1:FA:1032:VAL:HG22	1:FA:1038:ILE:HD12	2.02	0.41
1:FA:1138:GLU:O	1:FA:1141:GLN:HB3	2.20	0.41
1:FA:1456:PHE:HB3	1:FA:1474:LEU:CD1	2.40	0.41
1:FA:1463:ASP:C	1:FA:1465:GLU:N	2.72	0.41
1:FA:1484:LEU:CD2	2:FB:304:ASP:HB3	2.50	0.41
1:FA:1555:VAL:HG13	1:FA:1556:GLU:H	1.84	0.41
2:FB:73:ILE:HG13	2:FB:429:ARG:NH2	2.30	0.41
2:FB:407:PHE:N	2:FB:407:PHE:CD1	2.89	0.41
2:FB:655:TYR:CE2	2:FB:657:PRO:HB2	2.55	0.41
2:FB:888:ILE:HG13	12:FL:55:ILE:HA	2.03	0.41
2:FB:964:VAL:C	2:FB:966:SER:N	2.71	0.41
2:FB:1185:LEU:HD23	2:FB:1186:ASP:N	2.36	0.41
7:FG:58:LEU:HA	7:FG:58:LEU:HD23	1.67	0.41
7:FG:77:VAL:HG11	7:FG:124:VAL:HG21	2.01	0.41
7:FG:111:THR:HB	7:FG:112:PRO:HD2	2.03	0.41
13:FM:80:LEU:HD12	13:FM:91:TYR:CE1	2.55	0.41
1:AA:41:LEU:HD23	7:AO:294:GLU:OE1	2.19	0.41
1:AA:244:ARG:HG2	1:AA:245:LYS:H	1.86	0.41
1:AA:369:LEU:HA	1:AA:370:PRO:HD3	1.85	0.41
1:AA:474:LYS:HD3	2:AB:1096:SER:OG	2.21	0.41
1:AA:759:TYR:HB3	1:AA:920:PHE:CD2	2.56	0.41
1:AA:831:ASP:OD1	1:AA:831:ASP:N	2.40	0.41
1:AA:892:LEU:HG	1:AA:893:ASP:OD1	2.20	0.41
1:AA:1028:GLU:CD	1:AA:1637:PRO:HB2	2.41	0.41
1:AA:1038:ILE:HB	1:AA:1047:GLN:HB2	2.02	0.41
1:AA:1095:LEU:HD21	1:AA:1134:GLY:HA3	2.03	0.41
1:AA:1216:THR:HB	1:AA:1221:ARG:HD3	2.03	0.41
1:AA:1262:LEU:O	1:AA:1265:GLU:HB2	2.20	0.41
1:AA:1539:ASP:O	5:AE:147:HIS:CD2	2.74	0.41
1:AA:1613:MET:HA	1:AA:1618:THR:HA	2.03	0.41
2:AB:97:VAL:O	2:AB:421:LEU:HD22	2.21	0.41
2:AB:792:SER:HB2	2:AB:933:THR:HB	2.02	0.41
2:AB:848:ILE:HD11	12:AL:58:LYS:HG2	2.02	0.41
2:AB:942:GLY:C	2:AB:943:ILE:HD12	2.42	0.41
2:AB:976:GLY:HA3	10:AJ:33:GLY:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:AC:81:GLU:OE1	3:AC:81:GLU:HA	2.21	0.41
3:AC:160:ALA:HA	3:AC:196:LEU:HD12	2.02	0.41
3:AC:253:PRO:HD2	14:AN:180:PHE:CE1	2.55	0.41
7:AG:159:LYS:HZ3	7:BO:279:VAL:HG23	1.84	0.41
9:AI:8:ILE:H	9:AI:16:LEU:CD1	2.34	0.41
13:AM:26:PHE:CZ	13:AM:98:SER:HB2	2.56	0.41
13:AM:59:ARG:O	13:AM:60:LEU:HD23	2.21	0.41
13:AM:77:VAL:O	14:AN:56:ILE:HD12	2.20	0.41
1:BA:113:VAL:HG11	1:BA:181:LEU:HD23	2.03	0.41
1:BA:188:TYR:O	1:BA:191:MET:N	2.54	0.41
1:BA:484:ILE:HG21	1:BA:633:MET:HG3	2.03	0.41
1:BA:545:SER:C	1:BA:547:ILE:H	2.25	0.41
1:BA:780:ILE:H	1:BA:780:ILE:HG13	1.73	0.41
1:BA:821:ILE:HD13	2:BB:777:SER:HB2	2.01	0.41
1:BA:905:SER:HB2	9:BI:81:THR:N	2.36	0.41
1:BA:1162:ASN:O	1:BA:1165:LYS:HB2	2.21	0.41
1:BA:1527:GLN:HA	1:BA:1530:TRP:CE3	2.56	0.41
1:BA:1608:SER:OG	1:BA:1632:GLU:OE1	2.39	0.41
1:BA:1650:GLY:HA3	6:BF:88:TYR:CD1	2.55	0.41
2:BB:14:ALA:HB2	2:BB:980:ASP:CG	2.41	0.41
2:BB:95:LEU:HD22	2:BB:440:PHE:CD1	2.56	0.41
2:BB:240:ARG:NH1	2:BB:360:VAL:HG11	2.36	0.41
2:BB:301:PHE:O	2:BB:305:ARG:HG2	2.21	0.41
2:BB:345:SER:HA	13:BM:113:ILE:CD1	2.50	0.41
2:BB:501:ARG:HG3	2:BB:699:ILE:CD1	2.51	0.41
2:BB:636:GLN:HG3	2:BB:637:TYR:N	2.35	0.41
2:BB:692:THR:HB	2:BB:693:PRO:HD2	2.03	0.41
2:BB:731:VAL:HG11	10:BJ:59:LYS:HB3	2.03	0.41
2:BB:832:TRP:HE3	2:BB:834:LYS:H	1.69	0.41
2:BB:878:GLU:HA	2:BB:879:PRO:HD2	1.79	0.41
2:BB:954:PHE:N	2:BB:955:PRO:HD2	2.36	0.41
2:BB:972:GLY:CA	2:BB:977:ILE:HG22	2.48	0.41
5:BE:17:ARG:NH1	5:BE:36:GLU:HA	2.36	0.41
5:BE:52:ARG:HA	5:BE:53:PRO:HD3	1.84	0.41
5:BE:106:GLN:O	5:BE:131:THR:HG23	2.20	0.41
5:BE:144:ILE:HD13	5:BE:144:ILE:N	2.36	0.41
5:BE:176:PRO:HB2	5:BE:212:ARG:CD	2.51	0.41
6:BF:70:LYS:HA	7:BG:94:PRO:CG	2.51	0.41
7:BG:100:THR:O	7:BG:102:GLU:N	2.54	0.41
8:BH:30:SER:OG	8:BH:33:GLN:N	2.48	0.41
9:BI:33:CYS:O	13:BM:59:ARG:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:54:THR:HG22	11:BK:61:ALA:CA	2.46	0.41
12:BL:63:ARG:HH11	12:BL:63:ARG:HG3	1.86	0.41
14:BN:110:LEU:O	14:BN:119:LEU:HD22	2.21	0.41
7:BO:275:ASN:OD1	7:BO:275:ASN:N	2.54	0.41
1:CA:23:GLU:OE1	2:CB:1195:ARG:NH1	2.54	0.41
1:CA:53:ALA:O	1:CA:54:LEU:HD23	2.21	0.41
1:CA:124:LEU:HA	1:CA:124:LEU:HD23	1.87	0.41
1:CA:211:THR:O	1:CA:212:VAL:C	2.59	0.41
1:CA:509:GLU:HG3	1:CA:579:ARG:CZ	2.51	0.41
1:CA:543:LEU:HD23	1:CA:543:LEU:HA	1.84	0.41
1:CA:771:PHE:CD1	1:CA:793:ILE:HD13	2.56	0.41
1:CA:922:CYS:O	1:CA:924:SER:N	2.53	0.41
1:CA:1007:ILE:CG2	2:CB:515:THR:HG22	2.50	0.41
1:CA:1032:VAL:HG22	1:CA:1038:ILE:HD12	2.02	0.41
1:CA:1202:LEU:HD21	9:CI:101:LEU:CD2	2.50	0.41
1:CA:1216:THR:O	1:CA:1217:LEU:HD23	2.20	0.41
1:CA:1217:LEU:HD11	1:CA:1572:ARG:NE	2.36	0.41
1:CA:1217:LEU:CD1	1:CA:1573:TYR:HE1	2.29	0.41
1:CA:1238:MET:O	1:CA:1521:THR:HG23	2.21	0.41
1:CA:1264:SER:OG	1:CA:1494:ARG:HA	2.20	0.41
1:CA:1504:ILE:N	1:CA:1504:ILE:HD12	2.36	0.41
2:CB:152:LEU:HB3	2:CB:443:LYS:HZ1	1.86	0.41
2:CB:260:PHE:CD2	2:CB:276:ILE:HG12	2.56	0.41
2:CB:416:LYS:HZ3	2:CB:471:VAL:CG1	2.33	0.41
2:CB:870:LYS:HE2	2:CB:870:LYS:HB2	1.50	0.41
3:CC:86:PHE:O	3:CC:87:ASN:HB2	2.20	0.41
3:CC:136:LEU:HD13	3:CC:166:ASP:O	2.20	0.41
3:CC:191:ILE:O	3:CC:193:LEU:HD13	2.21	0.41
3:CC:197:ARG:H	3:CC:200:GLN:NE2	2.19	0.41
5:CE:47:CYS:SG	5:CE:53:PRO:HA	2.61	0.41
8:CH:83:GLN:HB2	8:CH:84:ALA:H	1.57	0.41
10:CJ:3:VAL:HG12	10:CJ:15:GLY:HA2	2.03	0.41
1:DA:57:PHE:CE2	1:DA:58:LEU:HG	2.56	0.41
1:DA:583:ASN:HA	1:DA:605:VAL:HG12	2.03	0.41
1:DA:824:THR:O	2:DB:1022:LEU:HB3	2.21	0.41
1:DA:827:THR:HB	2:DB:1026:ILE:HB	2.03	0.41
1:DA:1038:ILE:HB	1:DA:1047:GLN:HB2	2.03	0.41
1:DA:1217:LEU:HD11	1:DA:1572:ARG:CD	2.48	0.41
1:DA:1237:GLN:HB3	1:DA:1520:VAL:CG1	2.50	0.41
1:DA:1493:CYS:C	1:DA:1495:LYS:H	2.23	0.41
1:DA:1584:LEU:HD13	1:DA:1584:LEU:HA	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:DB:286:ARG:HG2	13:DM:27:PHE:CB	2.50	0.41
2:DB:465:LEU:HD23	2:DB:465:LEU:HA	1.92	0.41
2:DB:731:VAL:HG11	10:DJ:59:LYS:HB3	2.03	0.41
2:DB:757:TYR:CE2	2:DB:762:MET:HB3	2.56	0.41
2:DB:917:PHE:CD2	2:DB:1035:ARG:HA	2.54	0.41
3:DC:48:ASP:CG	3:DC:49:ALA:N	2.73	0.41
3:DC:70:ILE:C	3:DC:72:ILE:H	2.23	0.41
3:DC:210:LEU:H	3:DC:210:LEU:HD12	1.86	0.41
5:DE:144:ILE:N	5:DE:144:ILE:HD13	2.36	0.41
7:DG:48:SER:HB3	7:DG:115:PHE:CE1	2.56	0.41
7:DG:95:LEU:HD23	7:DG:95:LEU:HA	1.69	0.41
8:DH:33:GLN:HG3	8:DH:131:ASN:HD21	1.86	0.41
8:DH:63:LEU:CB	8:DH:88:SER:HB2	2.50	0.41
10:DJ:12:LYS:HD3	10:DJ:13:VAL:O	2.21	0.41
10:DJ:26:GLN:OE1	10:DJ:26:GLN:HA	2.21	0.41
11:DK:57:ASP:OD1	11:DK:58:GLY:N	2.54	0.41
11:DK:68:GLU:HG2	11:DK:72:LEU:HD23	2.03	0.41
13:DM:66:THR:HB	13:DM:71:GLN:HG3	2.02	0.41
1:EA:121:LYS:HE3	1:EA:219:LEU:HD13	2.02	0.41
1:EA:391:THR:O	1:EA:395:LEU:HG	2.21	0.41
1:EA:395:LEU:HD21	7:EO:280:PHE:CD2	2.56	0.41
1:EA:431:GLN:O	1:EA:434:VAL:HB	2.21	0.41
1:EA:551:VAL:HB	1:EA:552:GLU:H	1.70	0.41
1:EA:646:GLU:CD	2:EB:1086:PHE:HB2	2.41	0.41
1:EA:818:THR:O	1:EA:821:ILE:HG22	2.20	0.41
1:EA:896:THR:HG21	1:EA:956:ARG:HH12	1.86	0.41
1:EA:934:LYS:HG3	2:EB:956:SER:HB3	2.03	0.41
1:EA:1018:TYR:O	1:EA:1022:CYS:N	2.43	0.41
1:EA:1086:ILE:HG22	1:EA:1087:GLU:N	2.35	0.41
1:EA:1105:ARG:HH22	1:EA:1138:GLU:CD	2.24	0.41
1:EA:1168:ALA:O	1:EA:1170:MET:N	2.54	0.41
1:EA:1200:MET:HG2	1:EA:1573:TYR:CD2	2.56	0.41
1:EA:1344:ILE:H	1:EA:1344:ILE:HD12	1.85	0.41
1:EA:1527:GLN:HG3	1:EA:1530:TRP:CZ3	2.55	0.41
1:EA:1539:ASP:O	5:EE:147:HIS:NE2	2.54	0.41
1:EA:1553:TYR:HD1	5:EE:144:ILE:HB	1.86	0.41
1:EA:1582:LEU:N	1:EA:1582:LEU:HD23	2.36	0.41
2:EB:38:LEU:H	2:EB:38:LEU:CD2	2.33	0.41
2:EB:71:LYS:HB3	2:EB:425:ILE:CD1	2.50	0.41
2:EB:161:LEU:HD12	2:EB:162:PRO:CD	2.47	0.41
2:EB:416:LYS:HZ3	2:EB:471:VAL:CG1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:EB:642:LEU:HD22	2:EB:642:LEU:HA	1.76	0.41
2:EB:658:LEU:HD12	2:EB:658:LEU:HA	1.97	0.41
2:EB:837:LEU:HD22	2:EB:837:LEU:HA	1.54	0.41
2:EB:870:LYS:HE2	2:EB:870:LYS:HB2	1.44	0.41
2:EB:996:PHE:HA	2:EB:999:GLN:HG3	2.03	0.41
2:EB:1018:THR:HB	2:EB:1020:GLU:OE1	2.21	0.41
2:EB:1153:ILE:HD12	2:EB:1154:ASP:H	1.86	0.41
3:EC:41:GLU:O	3:EC:57:ILE:HD12	2.20	0.41
3:EC:134:LEU:O	3:EC:206:ALA:N	2.49	0.41
5:EE:55:ARG:O	5:EE:58:MET:HB2	2.20	0.41
5:EE:175:LEU:HD22	5:EE:175:LEU:HA	1.60	0.41
7:EG:27:PRO:O	7:EG:35:SER:HA	2.21	0.41
7:EG:29:ASP:C	7:EG:31:LYS:N	2.73	0.41
7:EG:221:ASN:OD1	7:EG:221:ASN:N	2.53	0.41
7:EG:230:ARG:O	7:EG:249:LEU:HD21	2.21	0.41
1:FA:88:PRO:HB3	1:FA:435:ASN:OD1	2.20	0.41
1:FA:89:LEU:HD13	1:FA:89:LEU:O	2.20	0.41
1:FA:552:GLU:O	1:FA:553:GLN:C	2.59	0.41
1:FA:657:TYR:HE2	1:FA:795:HIS:HA	1.86	0.41
1:FA:723:TYR:HD1	1:FA:723:TYR:HA	1.74	0.41
1:FA:741:PRO:HA	1:FA:742:PRO:HD3	1.90	0.41
1:FA:843:ARG:NH2	1:FA:945:CYS:O	2.53	0.41
1:FA:1066:PHE:HB3	1:FA:1147:PHE:CE2	2.56	0.41
1:FA:1238:MET:O	1:FA:1521:THR:HG23	2.20	0.41
1:FA:1325:LEU:HD12	1:FA:1329:ILE:HD12	2.03	0.41
1:FA:1335:LYS:HG3	1:FA:1335:LYS:O	2.21	0.41
1:FA:1584:LEU:O	1:FA:1585:ILE:C	2.59	0.41
1:FA:1649:VAL:O	1:FA:1652:GLY:N	2.44	0.41
2:FB:46:ILE:HG22	2:FB:50:ASN:HD21	1.86	0.41
2:FB:359:LEU:HD23	2:FB:359:LEU:HA	1.53	0.41
2:FB:425:ILE:HG22	2:FB:426:ALA:N	2.36	0.41
2:FB:579:ALA:O	2:FB:583:LEU:HD11	2.21	0.41
2:FB:714:ARG:HA	2:FB:714:ARG:HD3	1.69	0.41
2:FB:897:GLU:HB3	12:FL:43:THR:HG23	2.01	0.41
2:FB:1000:LEU:CD1	2:FB:1009:GLY:HA2	2.51	0.41
2:FB:1091:ARG:HA	2:FB:1091:ARG:HD2	1.69	0.41
2:FB:1153:ILE:CD1	2:FB:1154:ASP:H	2.34	0.41
3:FC:54:PHE:N	3:FC:54:PHE:CD1	2.88	0.41
3:FC:63:ILE:O	3:FC:66:ALA:HB3	2.21	0.41
5:FE:23:VAL:HG12	5:FE:28:TYR:HB2	2.02	0.41
5:FE:182:ASP:OD2	5:FE:184:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:FF:105:ALA:HA	6:FF:106:PRO:HD3	1.93	0.41
8:FH:40:LEU:HG	8:FH:42:ILE:HG12	2.02	0.41
8:FH:102:TYR:CD2	8:FH:102:TYR:N	2.89	0.41
1:AA:49:LEU:HD23	1:AA:49:LEU:HA	1.82	0.41
1:AA:1229:ALA:HB1	1:AA:1595:TYR:CD2	2.56	0.41
2:AB:71:LYS:HB3	2:AB:425:ILE:CD1	2.51	0.41
2:AB:95:LEU:HD21	2:AB:143:TRP:CZ2	2.56	0.41
2:AB:378:ILE:H	2:AB:378:ILE:HG12	1.61	0.41
2:AB:548:LYS:HA	2:AB:550:ARG:CZ	2.51	0.41
6:AF:65:ARG:HB3	6:AF:65:ARG:NH1	2.36	0.41
7:AG:80:VAL:HG12	7:AG:82:LEU:CD2	2.51	0.41
8:AH:97:MET:N	8:AH:142:LEU:O	2.49	0.41
9:AI:77:LYS:HD3	9:AI:77:LYS:HA	1.90	0.41
9:AI:95:ASN:HB2	9:AI:113:THR:HB	2.02	0.41
13:AM:16:GLN:CG	13:AM:17:ASP:H	2.31	0.41
1:BA:32:ILE:HG21	1:BA:49:LEU:CD2	2.51	0.41
1:BA:573:LEU:HD11	4:BD:16:LEU:HD11	2.03	0.41
1:BA:595:LEU:HD22	1:BA:595:LEU:HA	1.68	0.41
1:BA:1070:LEU:HD13	1:BA:1166:PHE:CD1	2.56	0.41
1:BA:1097:TYR:HD2	1:BA:1123:VAL:HG13	1.86	0.41
2:BB:21:ARG:HD3	2:BB:763:ASP:HB3	2.03	0.41
2:BB:71:LYS:HB3	2:BB:425:ILE:HG13	2.02	0.41
2:BB:168:ASN:OD1	2:BB:169:ARG:HG2	2.21	0.41
2:BB:273:VAL:O	2:BB:277:LEU:HD12	2.20	0.41
2:BB:669:GLN:HA	2:BB:672:MET:CG	2.51	0.41
3:BC:131:THR:HG23	3:BC:209:ILE:HG22	2.03	0.41
3:BC:172:GLN:HB2	3:BC:175:GLN:NE2	2.35	0.41
3:BC:216:HIS:ND1	3:BC:218:LYS:HD2	2.36	0.41
3:BC:253:PRO:C	3:BC:255:VAL:H	2.25	0.41
3:BC:333:ILE:HD12	3:BC:333:ILE:HA	1.80	0.41
5:BE:83:CYS:HB2	5:BE:110:PHE:CZ	2.55	0.41
11:BK:138:LYS:O	11:BK:142:MET:HB2	2.20	0.41
14:BN:109:LEU:O	14:BN:110:LEU:HD23	2.20	0.41
1:CA:560:GLN:O	1:CA:575:LYS:NZ	2.32	0.41
1:CA:872:ASP:OD1	1:CA:873:PRO:HD2	2.21	0.41
1:CA:993:GLN:CD	2:CB:676:VAL:HG21	2.42	0.41
1:CA:1148:LEU:HD11	1:CA:1167:ARG:HB2	2.03	0.41
2:CB:624:LEU:HD12	2:CB:625:GLU:H	1.86	0.41
2:CB:674:ILE:HG23	2:CB:688:HIS:CB	2.46	0.41
3:CC:81:GLU:OE1	12:CL:70:ARG:NH1	2.54	0.41
5:CE:20:LYS:NZ	5:CE:37:LEU:HD22	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:47:PHE:HB2	8:CH:95:TYR:CD1	2.56	0.41
10:CJ:49:MET:HG2	10:CJ:49:MET:H	1.61	0.41
12:CL:33:GLU:HG3	12:CL:53:HIS:ND1	2.36	0.41
14:CN:80:MET:HE3	14:CN:80:MET:HB2	1.76	0.41
2:DB:260:PHE:CD1	2:DB:260:PHE:C	2.94	0.41
2:DB:286:ARG:HD2	9:DI:9:PHE:CG	2.56	0.41
2:DB:376:PHE:CD2	2:DB:376:PHE:C	2.94	0.41
2:DB:497:ILE:HD12	2:DB:497:ILE:HA	1.75	0.41
3:DC:105:PRO:HB2	3:DC:187:ALA:HB3	2.02	0.41
3:DC:117:ASP:O	3:DC:125:LYS:HG3	2.20	0.41
7:DG:39:VAL:O	7:DG:123:TYR:HA	2.21	0.41
8:DH:103:LYS:HB3	8:DH:115:TYR:HB2	2.03	0.41
11:DK:50:LEU:O	11:DK:54:THR:HG23	2.21	0.41
11:DK:62:SER:HA	11:DK:103:ILE:O	2.21	0.41
14:DN:74:PHE:HZ	14:DN:135:LYS:HZ3	1.68	0.41
1:EA:39:ASP:OD1	1:EA:41:LEU:N	2.51	0.41
1:EA:399:LEU:HD11	7:EO:270:LEU:HB3	2.02	0.41
1:EA:422:ARG:HD2	7:EO:271:PRO:O	2.21	0.41
1:EA:423:LEU:HD23	1:EA:423:LEU:HA	1.83	0.41
1:EA:475:ARG:NH1	2:EB:1068:GLY:O	2.54	0.41
1:EA:545:SER:CB	1:EA:547:ILE:HG13	2.50	0.41
1:EA:750:ILE:H	1:EA:750:ILE:HG13	1.70	0.41
1:EA:828:CYS:HG	2:EB:963:PHE:HZ	1.67	0.41
1:EA:1026:GLN:HA	1:EA:1611:MET:CE	2.51	0.41
1:EA:1242:ILE:HA	1:EA:1536:ILE:HA	2.03	0.41
1:EA:1258:ILE:HD13	1:EA:1258:ILE:HG21	1.84	0.41
1:EA:1459:LYS:HE3	1:EA:1459:LYS:HB3	1.95	0.41
2:EB:315:LYS:HG3	2:EB:316:ARG:N	2.35	0.41
2:EB:387:GLY:O	2:EB:634:ARG:HG3	2.21	0.41
2:EB:852:VAL:O	2:EB:879:PRO:HA	2.21	0.41
3:EC:66:ALA:O	3:EC:70:ILE:HG13	2.20	0.41
6:EF:97:ARG:O	6:EF:100:GLN:HB2	2.21	0.41
8:EH:63:LEU:CB	8:EH:88:SER:HB2	2.48	0.41
12:EL:30:ILE:HD12	12:EL:59:ALA:HB2	2.03	0.41
1:FA:24:ILE:HD13	1:FA:359:VAL:HG23	2.03	0.41
1:FA:362:VAL:HA	1:FA:363:PRO:HD3	1.94	0.41
1:FA:669:LEU:HD13	1:FA:673:HIS:CB	2.50	0.41
1:FA:1102:LEU:HD12	1:FA:1102:LEU:HA	1.57	0.41
1:FA:1202:LEU:HD22	9:FI:99:LEU:CD2	2.47	0.41
1:FA:1608:SER:OG	1:FA:1632:GLU:OE1	2.39	0.41
2:FB:38:LEU:H	2:FB:38:LEU:HD22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:FB:275:MET:SD	2:FB:330:LEU:HD21	2.62	0.41
2:FB:789:ILE:HD13	2:FB:789:ILE:HA	1.84	0.41
2:FB:1160:GLU:HG2	2:FB:1166:LYS:HG2	2.03	0.41
2:FB:1178:ILE:HB	2:FB:1179:PRO:HD2	2.03	0.41
3:FC:67:PHE:O	3:FC:70:ILE:HB	2.20	0.41
3:FC:333:ILE:HD11	11:FK:49:LEU:N	2.36	0.41
14:FN:110:LEU:HB3	14:FN:119:LEU:HB3	2.03	0.41
1:AA:631:ASP:OD1	1:AA:631:ASP:N	2.47	0.40
1:AA:713:VAL:HB	1:AA:738:ASN:HD21	1.85	0.40
1:AA:1316:VAL:HG13	1:AA:1320:GLN:CG	2.51	0.40
2:AB:260:PHE:HD1	2:AB:260:PHE:C	2.24	0.40
2:AB:905:TYR:CD1	2:AB:905:TYR:N	2.89	0.40
2:AB:1150:LYS:N	2:AB:1150:LYS:HD3	2.36	0.40
3:AC:87:ASN:OD1	3:AC:88:ASN:N	2.54	0.40
3:AC:164:ALA:O	3:AC:167:LEU:HG	2.22	0.40
3:AC:328:LEU:HD13	3:AC:328:LEU:HA	1.57	0.40
5:AE:80:VAL:HG13	5:AE:109:ILE:HB	2.02	0.40
7:AG:10:ASN:HB3	7:AG:11:ARG:H	1.44	0.40
8:AH:33:GLN:HG3	8:AH:131:ASN:HD21	1.86	0.40
9:AI:13:CYS:HA	13:AM:100:VAL:HG11	2.04	0.40
9:AI:60:LEU:HD23	9:AI:60:LEU:HA	1.88	0.40
9:AI:95:ASN:N	9:AI:113:THR:O	2.47	0.40
11:AK:119:LYS:O	11:AK:123:ASP:HB2	2.22	0.40
13:AM:7:VAL:HA	14:AN:73:ASP:OD2	2.21	0.40
1:BA:232:LYS:HB2	1:BA:232:LYS:HE3	1.95	0.40
1:BA:584:ARG:HD3	6:BF:116:ASP:OD2	2.21	0.40
1:BA:968:SER:HB2	2:BB:676:VAL:HG23	2.02	0.40
1:BA:1239:THR:HG23	1:BA:1520:VAL:HG13	2.03	0.40
1:BA:1271:ILE:HG22	9:BI:48:VAL:HG12	2.02	0.40
1:BA:1655:ASP:O	6:BF:134:ILE:HG12	2.21	0.40
2:BB:71:LYS:HB3	2:BB:425:ILE:CD1	2.51	0.40
2:BB:470:LEU:HD12	2:BB:470:LEU:HA	1.79	0.40
2:BB:800:TYR:CD2	2:BB:800:TYR:C	2.95	0.40
2:BB:852:VAL:O	2:BB:879:PRO:HA	2.22	0.40
2:BB:885:VAL:HA	2:BB:903:ILE:HG22	2.02	0.40
2:BB:1070:ARG:HD3	2:BB:1072:GLY:HA2	2.04	0.40
3:BC:51:GLU:HB3	3:BC:303:GLU:HA	2.03	0.40
3:BC:75:VAL:HA	3:BC:76:PRO:HD3	1.81	0.40
3:BC:197:ARG:HG2	10:BJ:61:LEU:HB3	2.03	0.40
5:BE:3:GLN:O	5:BE:7:ARG:HG2	2.21	0.40
6:BF:99:LEU:HB3	7:BG:112:PRO:HD3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:BH:108:SER:O	8:BH:110:ASP:N	2.55	0.40
13:BM:21:VAL:HG21	13:BM:78:VAL:HG11	2.03	0.40
13:BM:44:LYS:HA	13:BM:44:LYS:HD2	1.66	0.40
13:BM:59:ARG:O	13:BM:60:LEU:HD23	2.21	0.40
1:CA:670:ILE:O	1:CA:673:HIS:HB2	2.21	0.40
1:CA:713:VAL:HB	1:CA:738:ASN:ND2	2.34	0.40
1:CA:1159:ASP:O	1:CA:1161:VAL:N	2.54	0.40
1:CA:1306:TYR:OH	9:CI:60:LEU:HB2	2.21	0.40
2:CB:260:PHE:HD1	2:CB:260:PHE:C	2.25	0.40
2:CB:296:ASP:C	2:CB:298:LYS:H	2.25	0.40
2:CB:315:LYS:HG3	2:CB:316:ARG:N	2.36	0.40
2:CB:477:ASP:O	2:CB:478:LEU:HG	2.20	0.40
2:CB:539:CYS:C	2:CB:541:LEU:H	2.25	0.40
2:CB:699:ILE:HD13	2:CB:699:ILE:N	2.31	0.40
2:CB:964:VAL:H	2:CB:964:VAL:HG23	1.61	0.40
3:CC:132:ILE:HD13	3:CC:132:ILE:HA	1.71	0.40
5:CE:164:LEU:HD12	5:CE:164:LEU:HA	1.79	0.40
1:DA:37:VAL:O	1:DA:38:LEU:HD23	2.21	0.40
1:DA:481:ARG:O	2:DB:1044:PHE:HA	2.21	0.40
1:DA:530:TRP:CZ2	1:DA:607:VAL:HG21	2.56	0.40
1:DA:668:GLY:HA3	1:DA:787:GLY:C	2.41	0.40
1:DA:750:ILE:H	1:DA:750:ILE:HG13	1.69	0.40
1:DA:853:THR:H	1:DA:853:THR:HG1	1.64	0.40
1:DA:1006:LEU:HD21	9:DI:100:GLN:NE2	2.36	0.40
1:DA:1237:GLN:CG	1:DA:1544:ASN:HD22	2.33	0.40
1:DA:1251:ALA:O	1:DA:1253:THR:N	2.54	0.40
2:DB:28:PRO:HA	2:DB:29:PRO:HD3	1.92	0.40
2:DB:286:ARG:HG2	13:DM:27:PHE:CD1	2.56	0.40
2:DB:795:GLU:OE2	3:DC:216:HIS:HA	2.20	0.40
2:DB:970:LYS:NZ	2:DB:1029:GLY:HA2	2.36	0.40
3:DC:164:ALA:HB3	3:DC:189:PRO:O	2.21	0.40
3:DC:285:PHE:C	3:DC:287:ASP:H	2.24	0.40
6:DF:138:LEU:HA	6:DF:139:PRO:HD3	1.92	0.40
6:DF:141:GLY:O	6:DF:143:PHE:HD2	2.03	0.40
7:DG:163:PRO:HG2	7:DG:166:TRP:NE1	2.36	0.40
8:DH:118:PHE:CD2	8:DH:118:PHE:N	2.88	0.40
9:DI:23:VAL:HB	9:DI:39:LYS:HE3	2.03	0.40
7:DO:272:ILE:O	7:DO:275:ASN:HB3	2.21	0.40
1:EA:522:ALA:O	1:EA:525:ASN:N	2.55	0.40
1:EA:865:ASP:CG	1:EA:866:LYS:N	2.75	0.40
1:EA:975:ASP:CG	1:EA:976:ALA:N	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1176:ARG:HD3	6:EF:84:TYR:CE1	2.56	0.40
2:EB:95:LEU:HD22	2:EB:440:PHE:CD1	2.56	0.40
2:EB:210:ARG:HH21	2:EB:667:PHE:HB2	1.86	0.40
2:EB:586:VAL:HB	2:EB:593:ILE:HG22	2.02	0.40
2:EB:693:PRO:C	2:EB:695:ASN:H	2.25	0.40
2:EB:878:GLU:OE2	2:EB:907:ILE:HG23	2.21	0.40
3:EC:86:PHE:O	3:EC:87:ASN:HB2	2.21	0.40
3:EC:104:VAL:HA	3:EC:105:PRO:HD3	1.95	0.40
4:ED:93:GLN:O	4:ED:97:LYS:HE3	2.20	0.40
5:EE:139:ALA:O	5:EE:141:VAL:N	2.53	0.40
6:EF:138:LEU:HA	6:EF:139:PRO:HD3	1.95	0.40
7:EG:163:PRO:HB2	7:EG:166:TRP:CD1	2.56	0.40
10:EJ:13:VAL:O	10:EJ:17:LYS:NZ	2.52	0.40
1:FA:509:GLU:HA	1:FA:510:PRO:HD3	1.81	0.40
1:FA:607:VAL:O	1:FA:608:LEU:HD23	2.21	0.40
1:FA:712:ILE:N	11:FK:106:GLN:OE1	2.45	0.40
1:FA:957:VAL:HG13	1:FA:958:PRO:HD2	2.03	0.40
1:FA:1076:LEU:HA	1:FA:1076:LEU:HD23	1.72	0.40
1:FA:1323:HIS:CD2	1:FA:1454:HIS:CD2	3.08	0.40
1:FA:1458:THR:HG23	1:FA:1473:LYS:O	2.20	0.40
1:FA:1482:LYS:HZ2	9:FI:6:SER:HB3	1.86	0.40
1:FA:1556:GLU:HG3	5:FE:153:HIS:NE2	2.36	0.40
2:FB:66:LYS:C	2:FB:68:ILE:N	2.74	0.40
2:FB:181:VAL:HG22	10:FJ:63:TYR:OH	2.21	0.40
2:FB:475:GLY:O	2:FB:477:ASP:N	2.54	0.40
2:FB:878:GLU:HA	2:FB:879:PRO:HD2	1.77	0.40
2:FB:1043:LYS:HB3	2:FB:1063:ARG:HH11	1.86	0.40
3:FC:117:ASP:O	3:FC:125:LYS:HG3	2.21	0.40
5:FE:8:ASN:HA	5:FE:11:ARG:HG3	2.03	0.40
7:FG:92:ALA:O	7:FG:94:PRO:HD3	2.20	0.40
13:FM:30:PHE:HE1	13:FM:62:TYR:HE2	1.69	0.40
14:FN:59:PRO:HG2	14:FN:62:VAL:HG23	2.02	0.40
1:AA:9:SER:OG	4:AD:20:VAL:HG21	2.20	0.40
1:AA:10:GLU:HG3	1:AA:1645:LYS:HE3	2.02	0.40
1:AA:65:CYS:HB2	2:AB:1115:GLN:HB2	2.03	0.40
1:AA:197:LEU:HD23	1:AA:202:THR:O	2.21	0.40
1:AA:388:LYS:HG2	7:AO:281:ASP:OD2	2.20	0.40
1:AA:668:GLY:HA3	1:AA:787:GLY:C	2.41	0.40
1:AA:1026:GLN:HA	1:AA:1611:MET:CE	2.51	0.40
1:AA:1102:LEU:HD12	1:AA:1102:LEU:HA	1.62	0.40
1:AA:1183:GLU:HA	6:AF:88:TYR:OH	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1243:TRP:HA	1:AA:1243:TRP:CE3	2.56	0.40
1:AA:1659:LYS:HA	7:AG:104:LEU:HD23	2.01	0.40
2:AB:156:ARG:HD2	2:AB:156:ARG:HA	1.53	0.40
2:AB:184:LYS:HE2	2:AB:735:HIS:CD2	2.56	0.40
2:AB:532:HIS:CE1	2:AB:544:HIS:CE1	3.10	0.40
2:AB:586:VAL:O	2:AB:593:ILE:HG22	2.21	0.40
2:AB:960:ILE:H	2:AB:960:ILE:HG12	1.39	0.40
2:AB:1178:ILE:O	2:AB:1178:ILE:HG13	2.21	0.40
3:AC:146:ALA:O	3:AC:148:LYS:N	2.55	0.40
4:AD:33:THR:HG23	4:AD:96:PHE:CD1	2.56	0.40
5:AE:20:LYS:NZ	5:AE:37:LEU:HD22	2.36	0.40
5:AE:90:VAL:HG13	5:AE:120:ALA:HA	2.04	0.40
7:AG:46:TYR:CD1	7:AG:117:TRP:HD1	2.39	0.40
7:AG:57:PRO:O	7:AG:61:VAL:HG23	2.21	0.40
7:AG:166:TRP:CE2	7:AG:219:ASP:HB2	2.56	0.40
8:AH:57:VAL:HG13	8:AH:144:ILE:CG1	2.49	0.40
8:AH:81:PRO:HA	8:AH:82:PRO:HD2	1.83	0.40
1:BA:11:ILE:H	1:BA:11:ILE:HG13	1.56	0.40
1:BA:197:LEU:HD21	1:BA:203:THR:O	2.21	0.40
1:BA:899:LYS:O	1:BA:903:ILE:HG12	2.22	0.40
1:BA:1060:GLU:O	1:BA:1061:SER:C	2.59	0.40
1:BA:1086:ILE:HD13	1:BA:1086:ILE:HA	1.83	0.40
1:BA:1200:MET:SD	1:BA:1218:GLY:HA2	2.61	0.40
1:BA:1264:SER:OG	1:BA:1494:ARG:HA	2.21	0.40
1:BA:1549:VAL:HG21	1:BA:1561:THR:HG21	2.03	0.40
1:BA:1557:ALA:HA	5:BE:149:LEU:O	2.21	0.40
1:BA:1603:MET:O	1:BA:1606:SER:N	2.46	0.40
1:BA:1660:VAL:HA	1:BA:1661:PRO:HD3	1.95	0.40
2:BB:46:ILE:HG22	2:BB:50:ASN:ND2	2.36	0.40
2:BB:324:THR:HG23	2:BB:347:LEU:HD21	2.03	0.40
2:BB:468:GLY:O	2:BB:482:SER:HA	2.22	0.40
2:BB:474:SER:C	2:BB:476:LEU:N	2.73	0.40
2:BB:970:LYS:NZ	2:BB:1028:VAL:O	2.42	0.40
2:BB:1060:VAL:HG22	2:BB:1061:LYS:H	1.85	0.40
2:BB:1116:SER:HB3	2:BB:1125:THR:H	1.87	0.40
3:BC:70:ILE:HG21	3:BC:317:SER:HA	2.04	0.40
6:BF:70:LYS:HA	7:BG:94:PRO:HG2	2.03	0.40
6:BF:76:LYS:HG3	6:BF:79:ARG:CZ	2.51	0.40
7:BG:122:LEU:HD22	7:BG:122:LEU:HA	1.88	0.40
8:BH:33:GLN:HB2	8:BH:36:CYS:CB	2.50	0.40
8:BH:83:GLN:HB2	8:BH:84:ALA:H	1.58	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:BK:83:ASN:HA	11:BK:84:PRO:HD2	1.87	0.40
14:BN:97:SER:CB	14:BN:105:SER:HB3	2.50	0.40
14:BN:155:VAL:HG13	14:BN:156:PRO:HD2	2.03	0.40
1:CA:19:LEU:HD23	1:CA:19:LEU:HA	1.84	0.40
1:CA:382:GLN:O	1:CA:386:LEU:HG	2.22	0.40
1:CA:467:PHE:N	1:CA:467:PHE:CD1	2.90	0.40
1:CA:644:ARG:NH2	6:CF:118:LEU:HD23	2.36	0.40
1:CA:756:LYS:C	1:CA:758:GLU:N	2.73	0.40
1:CA:1003:ARG:NH2	2:CB:533:THR:HG21	2.35	0.40
1:CA:1015:ARG:H	1:CA:1015:ARG:HG3	1.76	0.40
1:CA:1062:HIS:HD2	1:CA:1068:PHE:CD1	2.39	0.40
1:CA:1321:PHE:HD1	1:CA:1496:SER:OG	2.04	0.40
2:CB:67:ASP:O	2:CB:68:ILE:HD13	2.21	0.40
2:CB:104:ILE:CB	2:CB:169:ARG:HG3	2.51	0.40
2:CB:550:ARG:O	2:CB:551:ILE:HD13	2.21	0.40
2:CB:888:ILE:CG1	12:CL:55:ILE:HA	2.51	0.40
3:CC:71:MET:HG2	3:CC:71:MET:H	1.52	0.40
7:CO:278:ILE:O	7:CO:281:ASP:HB2	2.22	0.40
1:DA:187:GLU:HG3	1:DA:188:TYR:N	2.37	0.40
1:DA:659:THR:HG23	1:DA:664:SER:O	2.21	0.40
1:DA:709:ARG:C	1:DA:711:LYS:H	2.19	0.40
1:DA:758:GLU:O	1:DA:761:GLY:N	2.45	0.40
1:DA:1022:CYS:HA	1:DA:1615:TYR:OH	2.19	0.40
1:DA:1067:GLU:C	1:DA:1069:CYS:H	2.25	0.40
1:DA:1102:LEU:HD13	1:DA:1105:ARG:HH21	1.86	0.40
1:DA:1240:LEU:O	1:DA:1518:VAL:HA	2.20	0.40
1:DA:1657:LEU:HA	7:DG:107:ILE:HG12	2.02	0.40
2:DB:202:LEU:HD13	2:DB:500:PHE:CD2	2.56	0.40
2:DB:322:ASN:O	2:DB:326:VAL:HG23	2.21	0.40
2:DB:823:GLN:HG3	2:DB:861:TYR:CD2	2.56	0.40
2:DB:1082:HIS:HB2	2:DB:1084:THR:HG23	2.03	0.40
2:DB:1176:VAL:HG22	2:DB:1177:ALA:N	2.36	0.40
3:DC:87:ASN:OD1	12:DL:60:ARG:HD3	2.21	0.40
3:DC:115:TRP:HB3	3:DC:116:VAL:H	1.69	0.40
7:DG:162:ILE:HG13	7:DG:162:ILE:H	1.66	0.40
9:DI:34:LYS:HA	9:DI:34:LYS:HD3	1.92	0.40
10:DJ:8:PHE:HD1	10:DJ:8:PHE:HA	1.68	0.40
1:EA:646:GLU:C	1:EA:648:LEU:H	2.24	0.40
1:EA:826:PHE:H	2:EB:776:ILE:HD11	1.86	0.40
1:EA:852:ASP:OD1	1:EA:855:ARG:NE	2.52	0.40
1:EA:966:LEU:HD11	1:EA:968:SER:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:EA:1105:ARG:NH2	1:EA:1138:GLU:OE2	2.49	0.40
1:EA:1162:ASN:O	1:EA:1165:LYS:HB2	2.22	0.40
1:EA:1170:MET:O	1:EA:1173:LYS:N	2.54	0.40
1:EA:1244:ASN:HA	1:EA:1517:ARG:HH11	1.87	0.40
1:EA:1596:LEU:HD23	1:EA:1596:LEU:HA	1.80	0.40
2:EB:22:GLU:O	2:EB:26:ILE:HG13	2.22	0.40
2:EB:215:MET:SD	2:EB:399:HIS:HB3	2.61	0.40
2:EB:559:SER:C	2:EB:561:ILE:H	2.24	0.40
2:EB:568:LEU:C	14:EN:140:SER:HB2	2.41	0.40
2:EB:577:PHE:HD1	2:EB:577:PHE:HA	1.78	0.40
2:EB:845:LEU:HD12	12:EL:58:LYS:CD	2.48	0.40
2:EB:910:THR:HA	2:EB:911:PRO:HD3	1.96	0.40
2:EB:972:GLY:O	2:EB:976:GLY:N	2.52	0.40
3:EC:70:ILE:C	3:EC:72:ILE:N	2.74	0.40
3:EC:131:THR:HG22	3:EC:132:ILE:H	1.86	0.40
3:EC:140:CYS:CB	3:EC:196:LEU:HD13	2.51	0.40
6:EF:116:ASP:OD1	6:EF:118:LEU:N	2.47	0.40
9:EI:82:ILE:N	9:EI:94:MET:O	2.52	0.40
1:FA:522:ALA:O	1:FA:525:ASN:N	2.55	0.40
1:FA:618:TYR:O	1:FA:620:ASN:N	2.54	0.40
1:FA:650:LEU:HD11	6:FF:88:TYR:HD1	1.87	0.40
1:FA:937:ASN:HB3	9:FI:82:ILE:HD11	2.03	0.40
1:FA:969:PHE:CD2	1:FA:978:ALA:HA	2.56	0.40
1:FA:1001:ALA:O	1:FA:1004:GLU:HB2	2.20	0.40
1:FA:1238:MET:SD	1:FA:1524:VAL:HA	2.62	0.40
1:FA:1322:ILE:O	1:FA:1325:LEU:N	2.54	0.40
2:FB:152:LEU:HA	2:FB:152:LEU:HD23	1.80	0.40
2:FB:345:SER:HA	13:FM:113:ILE:HG12	2.04	0.40
3:FC:75:VAL:HA	3:FC:76:PRO:HD3	1.79	0.40
3:FC:245:ARG:HD2	3:FC:245:ARG:N	2.36	0.40
7:FG:140:GLN:HB3	7:FG:217:TRP:CD1	2.55	0.40
1:AA:460:LEU:O	1:AA:466:LEU:HB3	2.21	0.40
1:AA:545:SER:CB	1:AA:547:ILE:HG13	2.51	0.40
1:AA:1028:GLU:HA	1:AA:1187:ILE:CG1	2.50	0.40
1:AA:1155:PHE:CD2	1:AA:1163:GLU:HG3	2.56	0.40
1:AA:1229:ALA:CB	1:AA:1597:ALA:HB2	2.51	0.40
1:AA:1456:PHE:HB3	1:AA:1474:LEU:CD1	2.43	0.40
2:AB:222:PHE:O	2:AB:229:TYR:HB3	2.21	0.40
2:AB:379:ARG:CZ	2:AB:580:GLY:HA2	2.50	0.40
2:AB:551:ILE:CD1	2:AB:649:MET:HA	2.51	0.40
2:AB:1007:TYR:C	2:AB:1009:GLY:H	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AB:1117:VAL:HA	2:AB:1118:PRO:HD3	1.88	0.40
3:AC:163:TYR:O	3:AC:166:ASP:HB2	2.21	0.40
3:AC:172:GLN:N	3:AC:175:GLN:HB2	2.36	0.40
6:AF:103:MET:O	7:AG:51:PRO:HG2	2.21	0.40
7:AG:26:ASN:ND2	7:AG:37:CYS:SG	2.94	0.40
1:BA:892:LEU:HD11	1:BA:956:ARG:NH1	2.35	0.40
1:BA:1057:ILE:H	1:BA:1057:ILE:HD12	1.87	0.40
1:BA:1080:TYR:HB3	1:BA:1172:LEU:HD21	2.03	0.40
1:BA:1220:PRO:O	1:BA:1223:ARG:HB2	2.21	0.40
1:BA:1241:PRO:HG3	1:BA:1540:GLY:C	2.41	0.40
1:BA:1448:SER:HA	1:BA:1451:ILE:HD12	2.04	0.40
1:BA:1459:LYS:HE3	1:BA:1459:LYS:HB3	1.98	0.40
2:BB:101:GLN:O	2:BB:139:LEU:HD22	2.22	0.40
2:BB:961:GLY:HA2	2:BB:964:VAL:HG23	2.02	0.40
2:BB:1112:THR:OG1	2:BB:1128:CYS:SG	2.79	0.40
3:BC:140:CYS:HB2	3:BC:196:LEU:HD13	2.04	0.40
3:BC:216:HIS:O	3:BC:218:LYS:N	2.55	0.40
4:BD:40:LEU:HD22	4:BD:93:GLN:HB3	2.02	0.40
6:BF:97:ARG:HG2	6:BF:130:ILE:HD13	2.04	0.40
7:BG:62:MET:HA	7:BG:66:LEU:HB2	2.02	0.40
7:BG:74:ASN:HB3	7:BG:77:VAL:HG23	2.04	0.40
7:BG:129:VAL:HG12	7:BG:235:ASN:HA	2.04	0.40
10:BJ:56:LEU:O	10:BJ:59:LYS:HB2	2.21	0.40
14:BN:113:SER:OG	14:BN:114:GLU:N	2.54	0.40
14:BN:139:VAL:HB	14:BN:140:SER:H	1.33	0.40
1:CA:569:SER:HB2	4:CD:17:ASN:ND2	2.36	0.40
1:CA:699:CYS:O	1:CA:812:VAL:HG22	2.21	0.40
1:CA:759:TYR:HB3	1:CA:920:PHE:CD2	2.56	0.40
1:CA:771:PHE:HE2	1:CA:776:LEU:HB2	1.86	0.40
1:CA:1095:LEU:HD21	1:CA:1134:GLY:HA3	2.03	0.40
2:CB:156:ARG:HD2	2:CB:156:ARG:HA	1.65	0.40
2:CB:796:ARG:HD2	10:CJ:7:CYS:O	2.21	0.40
4:CD:32:SER:O	4:CD:36:VAL:HG23	2.21	0.40
4:CD:85:SER:O	4:CD:88:GLN:N	2.49	0.40
5:CE:127:ILE:HD11	5:CE:132:ILE:CD1	2.51	0.40
7:CG:60:GLY:O	7:CG:64:GLN:HB2	2.21	0.40
7:CG:62:MET:HA	7:CG:66:LEU:HB2	2.04	0.40
7:CG:99:ASP:O	7:CG:100:THR:C	2.59	0.40
8:CH:81:PRO:HD2	11:CK:108:TYR:OH	2.22	0.40
9:CI:60:LEU:HA	9:CI:60:LEU:HD23	1.78	0.40
13:CM:10:ILE:HD12	14:CN:70:LEU:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:DA:19:LEU:HD23	1:DA:19:LEU:HA	1.89	0.40
1:DA:232:LYS:HB2	1:DA:232:LYS:HE3	1.84	0.40
1:DA:453:ILE:HA	1:DA:454:PRO:HD3	1.94	0.40
1:DA:741:PRO:HA	1:DA:742:PRO:HD3	1.78	0.40
1:DA:865:ASP:OD2	1:DA:867:ASP:N	2.45	0.40
1:DA:1033:SER:O	1:DA:1181:PRO:HB3	2.21	0.40
1:DA:1610:PHE:HD1	1:DA:1610:PHE:HA	1.74	0.40
2:DB:99:VAL:HG11	2:DB:139:LEU:HD13	2.03	0.40
2:DB:274:VAL:HG11	2:DB:313:PHE:HB2	2.03	0.40
2:DB:547:HIS:CD2	2:DB:694:THR:O	2.75	0.40
2:DB:586:VAL:O	2:DB:593:ILE:HG22	2.21	0.40
2:DB:696:ILE:HG13	2:DB:696:ILE:H	1.72	0.40
2:DB:1158:ILE:HA	2:DB:1167:PHE:O	2.22	0.40
3:DC:211:GLY:HA3	3:DC:219:PHE:CZ	2.56	0.40
7:DG:163:PRO:HB2	7:DG:166:TRP:CD1	2.57	0.40
8:DH:33:GLN:HB2	8:DH:36:CYS:CB	2.51	0.40
8:DH:108:SER:O	8:DH:110:ASP:N	2.54	0.40
12:DL:30:ILE:HD12	12:DL:59:ALA:HB2	2.04	0.40
12:DL:45:ALA:HB1	12:DL:47:ARG:HG2	2.02	0.40
14:DN:55:LEU:HB3	14:DN:136:VAL:CG2	2.51	0.40
1:EA:456:VAL:O	1:EA:460:LEU:HG	2.20	0.40
1:EA:554:ARG:O	1:EA:555:LYS:C	2.59	0.40
1:EA:675:SER:HB2	2:EB:952:HIS:NE2	2.36	0.40
1:EA:680:LEU:HD12	1:EA:820:TYR:CG	2.56	0.40
1:EA:806:ALA:O	1:EA:807:ALA:C	2.60	0.40
1:EA:918:LYS:O	1:EA:923:ASN:ND2	2.47	0.40
1:EA:1460:TYR:HA	1:EA:1472:PHE:HB3	2.02	0.40
2:EB:53:THR:HA	2:EB:59:GLY:HA3	2.03	0.40
2:EB:472:SER:OG	2:EB:473:GLN:N	2.54	0.40
2:EB:690:GLU:HG2	2:EB:690:GLU:H	1.67	0.40
2:EB:1073:GLU:O	2:EB:1076:ARG:HB3	2.22	0.40
2:EB:1178:ILE:HB	2:EB:1182:LEU:HD23	2.04	0.40
5:EE:52:ARG:HA	5:EE:53:PRO:HD3	1.88	0.40
5:EE:55:ARG:HB3	5:EE:82:PHE:HB3	2.03	0.40
7:EG:48:SER:HB3	7:EG:115:PHE:CE1	2.56	0.40
7:EG:60:GLY:O	7:EG:64:GLN:HB2	2.20	0.40
7:EG:235:ASN:HB3	7:EG:246:ASP:HB3	2.03	0.40
8:EH:33:GLN:HG3	8:EH:131:ASN:HD21	1.86	0.40
1:FA:763:GLY:HA3	8:FH:25:ARG:NE	2.36	0.40
1:FA:839:GLY:O	1:FA:842:TRP:HB2	2.21	0.40
1:FA:1229:ALA:HB3	1:FA:1597:ALA:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:1493:CYS:C	1:FA:1495:LYS:H	2.24	0.40
2:FB:520:LEU:HD12	2:FB:520:LEU:HA	1.95	0.40
2:FB:626:ILE:N	2:FB:668:GLU:OE2	2.54	0.40
2:FB:905:TYR:N	2:FB:905:TYR:CD1	2.89	0.40
2:FB:1186:ASP:OD2	2:FB:1196:LEU:HD12	2.21	0.40
3:FC:172:GLN:N	3:FC:175:GLN:HB2	2.37	0.40
3:FC:245:ARG:HD2	3:FC:245:ARG:H	1.86	0.40
3:FC:317:SER:O	3:FC:320:ILE:HB	2.20	0.40
8:FH:33:GLN:HB2	8:FH:36:CYS:CB	2.50	0.40
10:FJ:60:PHE:O	10:FJ:63:TYR:N	2.51	0.40
11:FK:120:GLY:O	11:FK:121:LEU:C	2.59	0.40
13:FM:43:LYS:HE3	14:FN:27:ASP:O	2.21	0.40
14:FN:131:LEU:HG	14:FN:132:GLN:N	2.36	0.40
1:AA:958:PRO:HG2	2:AB:522:PRO:HG3	2.02	0.40
1:AA:1184:ALA:O	1:AA:1186:GLY:N	2.55	0.40
1:AA:1323:HIS:CD2	1:AA:1454:HIS:CD2	3.10	0.40
1:AA:1565:GLU:O	1:AA:1568:ASN:HB3	2.21	0.40
2:AB:479:GLN:H	2:AB:479:GLN:HG2	1.67	0.40
2:AB:699:ILE:H	2:AB:699:ILE:CD1	2.32	0.40
2:AB:753:LYS:O	2:AB:981:SER:OG	2.14	0.40
2:AB:1000:LEU:HD13	2:AB:1009:GLY:HA2	2.03	0.40
3:AC:85:PHE:HA	3:AC:204:LEU:CB	2.52	0.40
3:AC:230:LEU:HD11	3:AC:270:ALA:HB3	2.03	0.40
3:AC:240:LYS:HB2	3:AC:240:LYS:HE3	1.90	0.40
5:AE:17:ARG:O	5:AE:20:LYS:HB2	2.21	0.40
14:AN:118:SER:O	14:AN:119:LEU:HD23	2.20	0.40
7:AO:270:LEU:HD23	7:AO:270:LEU:HA	1.91	0.40
1:BA:81:LEU:C	1:BA:83:VAL:H	2.25	0.40
1:BA:111:LYS:HG3	1:BA:234:ASP:OD2	2.21	0.40
1:BA:476:VAL:HG11	2:BB:1091:ARG:O	2.22	0.40
1:BA:597:LYS:HB2	2:BB:1082:HIS:NE2	2.37	0.40
1:BA:858:ALA:O	1:BA:862:THR:OG1	2.33	0.40
1:BA:1237:GLN:HB3	1:BA:1520:VAL:CG1	2.51	0.40
2:BB:214:PRO:HB3	2:BB:377:MET:CE	2.51	0.40
2:BB:233:GLY:HA2	2:BB:250:LEU:O	2.21	0.40
2:BB:824:HIS:O	2:BB:861:TYR:HB2	2.21	0.40
2:BB:858:ILE:HG12	2:BB:859:CYS:N	2.35	0.40
2:BB:999:GLN:NE2	14:BN:166:LEU:HD21	2.37	0.40
5:BE:139:ALA:C	5:BE:141:VAL:N	2.75	0.40
13:BM:16:GLN:HB3	13:BM:91:TYR:HA	2.03	0.40
14:BN:75:GLU:H	14:BN:91:ASP:CG	2.24	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:BN:131:LEU:HG	14:BN:132:GLN:N	2.36	0.40
1:CA:52:LEU:HD23	1:CA:52:LEU:HA	1.82	0.40
1:CA:470:HIS:CD2	7:CO:314:THR:HG22	2.56	0.40
1:CA:1158:SER:HB3	1:CA:1159:ASP:H	1.56	0.40
1:CA:1264:SER:HA	1:CA:1267:ILE:HD12	2.03	0.40
1:CA:1450:ILE:HG22	1:CA:1457:ILE:HG21	2.04	0.40
2:CB:68:ILE:HD13	2:CB:68:ILE:HA	1.66	0.40
2:CB:70:GLU:HG2	2:CB:97:VAL:O	2.21	0.40
2:CB:101:GLN:O	2:CB:139:LEU:HD22	2.22	0.40
2:CB:206:LEU:HD23	2:CB:206:LEU:HA	1.98	0.40
2:CB:501:ARG:O	2:CB:544:HIS:HA	2.22	0.40
2:CB:789:ILE:HD11	2:CB:947:ILE:HG12	2.03	0.40
2:CB:838:GLU:C	2:CB:840:LEU:H	2.25	0.40
2:CB:845:LEU:HD12	12:CL:58:LYS:HE2	2.02	0.40
3:CC:199:GLY:HA3	10:CJ:66:LEU:HD22	2.03	0.40
5:CE:213:ILE:HD13	5:CE:214:CYS:N	2.35	0.40
6:CF:74:ILE:HA	6:CF:75:PRO:HD2	1.95	0.40
6:CF:105:ALA:HA	6:CF:106:PRO:HD3	1.91	0.40
7:CG:87:LEU:HA	7:CG:120:VAL:HG23	2.02	0.40
8:CH:128:ASN:OD1	8:CH:130:ARG:HB2	2.21	0.40
7:CO:278:ILE:HB	7:DG:159:LYS:NZ	2.36	0.40
1:DA:90:PHE:CE1	1:DA:1623:THR:HG23	2.57	0.40
1:DA:460:LEU:O	1:DA:466:LEU:HB3	2.21	0.40
1:DA:469:LYS:NZ	7:DO:314:THR:O	2.54	0.40
1:DA:509:GLU:OE1	1:DA:579:ARG:NH2	2.50	0.40
1:DA:676:ALA:O	1:DA:677:GLY:C	2.60	0.40
1:DA:751:SER:O	1:DA:769:VAL:N	2.47	0.40
1:DA:790:LYS:O	1:DA:792:GLY:N	2.55	0.40
1:DA:892:LEU:HG	1:DA:893:ASP:N	2.35	0.40
1:DA:952:LEU:HD22	1:DA:952:LEU:HA	1.86	0.40
1:DA:1226:VAL:HG22	1:DA:1598:PHE:CE1	2.56	0.40
1:DA:1529:MET:H	1:DA:1529:MET:HG2	1.66	0.40
2:DB:96:SER:OG	2:DB:144:SER:O	2.28	0.40
2:DB:383:SER:HB2	2:DB:388:GLU:HB2	2.03	0.40
2:DB:704:THR:HA	2:DB:705:PRO:HD2	1.93	0.40
2:DB:960:ILE:O	2:DB:963:PHE:N	2.54	0.40
2:DB:1026:ILE:HD11	2:DB:1028:VAL:CG1	2.48	0.40
3:DC:197:ARG:CG	10:DJ:61:LEU:HB3	2.51	0.40
5:DE:177:ARG:NH1	5:DE:179:GLN:HE22	2.19	0.40
7:DG:26:ASN:HA	7:DG:27:PRO:HD3	1.89	0.40
7:DG:137:ILE:HD11	7:DG:229:LEU:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:DG:162:ILE:HA	7:DG:163:PRO:HD2	1.86	0.40
7:DG:221:ASN:OD1	7:DG:221:ASN:N	2.54	0.40
9:DI:8:ILE:H	9:DI:16:LEU:CD1	2.35	0.40
10:DJ:45:CYS:HA	10:DJ:48:ARG:NH1	2.37	0.40
14:DN:54:TRP:CZ2	14:DN:135:LYS:HD2	2.56	0.40
1:EA:1217:LEU:HD11	1:EA:1572:ARG:HE	1.86	0.40
2:EB:184:LYS:HE2	2:EB:735:HIS:NE2	2.37	0.40
2:EB:617:THR:CB	2:EB:620:LEU:HD23	2.51	0.40
2:EB:736:ARG:HB3	2:EB:738:ASP:OD1	2.21	0.40
2:EB:741:LEU:HA	2:EB:741:LEU:HD23	1.76	0.40
2:EB:913:ILE:HD12	2:EB:927:CYS:HB3	2.04	0.40
3:EC:136:LEU:HD22	3:EC:167:LEU:HA	2.04	0.40
3:EC:251:PHE:HB3	3:EC:255:VAL:HG11	2.02	0.40
5:EE:137:GLU:C	5:EE:139:ALA:N	2.74	0.40
7:EG:161:ASN:HB3	7:EG:248:THR:HA	2.04	0.40
9:EI:60:LEU:HD23	9:EI:60:LEU:HA	1.84	0.40
11:EK:72:LEU:HD12	11:EK:72:LEU:HA	1.54	0.40
13:EM:75:GLN:HG2	14:EN:64:ILE:HD11	2.03	0.40
1:FA:70:LYS:C	1:FA:71:PHE:CD1	2.94	0.40
1:FA:77:GLY:O	1:FA:78:HIS:HB3	2.21	0.40
1:FA:530:TRP:CZ2	1:FA:607:VAL:HG21	2.56	0.40
1:FA:736:LEU:HD22	1:FA:736:LEU:HA	1.69	0.40
1:FA:1136:VAL:HG11	1:FA:1140:PHE:CD2	2.49	0.40
1:FA:1243:TRP:HA	1:FA:1243:TRP:CE3	2.57	0.40
1:FA:1481:GLU:O	1:FA:1483:LEU:HD23	2.22	0.40
2:FB:97:VAL:O	2:FB:421:LEU:HD22	2.21	0.40
2:FB:104:ILE:CB	2:FB:169:ARG:HG3	2.51	0.40
2:FB:609:ARG:NH2	2:FB:626:ILE:HG13	2.36	0.40
2:FB:690:GLU:HG2	2:FB:690:GLU:H	1.68	0.40
2:FB:775:VAL:H	2:FB:1028:VAL:CG1	2.33	0.40
2:FB:956:SER:HB2	9:FI:107:GLY:HA3	2.04	0.40
5:FE:81:GLU:HG3	5:FE:82:PHE:N	2.35	0.40
11:FK:53:ALA:HB1	11:FK:104:ARG:HH12	1.87	0.40
13:FM:65:TYR:O	13:FM:97:VAL:HG23	2.22	0.40
14:FN:163:VAL:O	14:FN:166:LEU:HD11	2.22	0.40
1:AA:507:TYR:OH	1:AA:641:GLU:N	2.55	0.40
1:AA:583:ASN:HA	1:AA:605:VAL:HG12	2.03	0.40
1:AA:646:GLU:OE1	2:AB:1087:LEU:HG	2.22	0.40
1:AA:669:LEU:HG	1:AA:810:LEU:HD11	2.04	0.40
1:AA:671:GLN:HA	2:AB:952:HIS:HD2	1.86	0.40
1:AA:689:ARG:O	1:AA:692:TYR:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:763:GLY:HA3	8:AH:25:ARG:NE	2.36	0.40
2:AB:215:MET:HE3	2:AB:394:PRO:HB3	2.03	0.40
2:AB:570:VAL:HG13	2:AB:596:VAL:HG13	2.04	0.40
2:AB:771:ALA:O	2:AB:1030:VAL:HG12	2.22	0.40
2:AB:1094:ASN:N	2:AB:1094:ASN:OD1	2.54	0.40
6:AF:123:LYS:O	6:AF:126:ALA:HB3	2.22	0.40
7:AG:73:TYR:CD2	7:AG:238:THR:HB	2.56	0.40
8:AH:39:THR:HG22	8:AH:124:ARG:HB3	2.04	0.40
1:BA:345:LEU:H	1:BA:345:LEU:HG	1.34	0.40
1:BA:809:VAL:CG1	1:BA:810:LEU:N	2.84	0.40
1:BA:1325:LEU:HD13	1:BA:1325:LEU:HA	1.67	0.40
1:BA:1482:LYS:NZ	2:BB:304:ASP:OD1	2.51	0.40
1:BA:1526:PHE:O	1:BA:1528:ALA:N	2.54	0.40
2:BB:389:CYS:HB2	2:BB:635:GLY:O	2.21	0.40
2:BB:655:TYR:CZ	2:BB:657:PRO:HG2	2.57	0.40
2:BB:872:LYS:HD3	2:BB:872:LYS:HA	1.76	0.40
2:BB:913:ILE:HD11	2:BB:929:ARG:N	2.36	0.40
3:BC:70:ILE:C	3:BC:72:ILE:H	2.24	0.40
5:BE:175:LEU:HD22	5:BE:175:LEU:HA	1.70	0.40
7:BG:50:ALA:HB1	7:BG:52:MET:HG2	2.03	0.40
1:CA:76:GLN:H	1:CA:76:GLN:HG2	1.61	0.40
1:CA:191:MET:SD	1:CA:191:MET:C	3.00	0.40
1:CA:538:ASN:HB3	1:CA:539:GLU:H	1.71	0.40
1:CA:731:ILE:O	1:CA:735:VAL:HG23	2.21	0.40
1:CA:780:ILE:C	1:CA:781:LEU:HD23	2.42	0.40
1:CA:1018:TYR:OH	1:CA:1615:TYR:HE1	2.04	0.40
1:CA:1148:LEU:CD2	1:CA:1163:GLU:HG2	2.52	0.40
1:CA:1193:VAL:O	1:CA:1196:PRO:HD2	2.22	0.40
1:CA:1529:MET:H	1:CA:1529:MET:HG2	1.70	0.40
1:CA:1582:LEU:O	1:CA:1583:ASP:C	2.60	0.40
1:CA:1584:LEU:HD13	1:CA:1584:LEU:HA	1.95	0.40
2:CB:19:LEU:HD21	10:CJ:25:LEU:HB3	2.04	0.40
2:CB:46:ILE:HG22	2:CB:50:ASN:HD21	1.87	0.40
2:CB:128:GLN:NE2	2:CB:735:HIS:HA	2.37	0.40
2:CB:555:GLN:NE2	2:CB:644:GLY:O	2.55	0.40
2:CB:679:GLN:NE2	14:CN:155:VAL:O	2.49	0.40
2:CB:751:ILE:HG22	2:CB:770:ASN:OD1	2.21	0.40
2:CB:837:LEU:HD22	2:CB:837:LEU:HA	1.63	0.40
2:CB:1006:ASN:ND2	3:CC:277:ARG:HB2	2.36	0.40
3:CC:303:GLU:O	3:CC:304:SER:HB2	2.22	0.40
3:CC:329:LYS:CD	11:CK:122:LYS:HE2	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:46:LEU:HD23	8:CH:46:LEU:HA	1.81	0.40
8:CH:143:LEU:N	8:CH:143:LEU:HD12	2.36	0.40
9:CI:114:CYS:SG	9:CI:115:THR:N	2.95	0.40
13:CM:39:ASP:O	13:CM:53:LEU:HD12	2.21	0.40
7:CO:287:GLU:O	7:CO:290:GLU:N	2.52	0.40
1:DA:52:LEU:HD22	1:DA:56:ALA:HA	2.03	0.40
1:DA:70:LYS:HG2	7:DO:302:GLU:OE2	2.21	0.40
1:DA:510:PRO:HG2	6:DF:102:SER:OG	2.21	0.40
1:DA:975:ASP:CG	1:DA:976:ALA:N	2.74	0.40
1:DA:1195:GLU:HB3	1:DA:1196:PRO:HD3	2.03	0.40
1:DA:1608:SER:OG	1:DA:1636:SER:OG	2.37	0.40
2:DB:71:LYS:HB3	2:DB:425:ILE:HD11	2.04	0.40
2:DB:476:LEU:HD23	2:DB:476:LEU:HA	1.52	0.40
2:DB:909:ARG:HH22	2:DB:1038:HIS:CG	2.39	0.40
2:DB:1056:THR:HB	2:DB:1058:GLN:HG3	2.02	0.40
2:DB:1171:ASN:HD22	2:DB:1171:ASN:N	2.20	0.40
4:DD:32:SER:O	4:DD:36:VAL:HG23	2.21	0.40
5:DE:48:ASP:OD1	5:DE:48:ASP:N	2.47	0.40
5:DE:196:VAL:O	5:DE:211:TYR:HB3	2.22	0.40
6:DF:123:LYS:O	6:DF:126:ALA:HB3	2.22	0.40
6:DF:136:ARG:O	6:DF:143:PHE:HB2	2.22	0.40
7:DG:73:TYR:CD2	7:DG:238:THR:HB	2.57	0.40
8:DH:81:PRO:HA	8:DH:82:PRO:HD2	1.87	0.40
11:DK:119:LYS:O	11:DK:123:ASP:HB2	2.21	0.40
1:EA:11:ILE:HD11	1:EA:1643:VAL:HG11	2.04	0.40
1:EA:87:ASN:HA	1:EA:88:PRO:HD2	1.90	0.40
1:EA:488:PRO:HD2	2:EB:781:TYR:CZ	2.56	0.40
1:EA:819:ASN:O	1:EA:822:THR:OG1	2.38	0.40
1:EA:1047:GLN:CD	1:EA:1584:LEU:HD13	2.42	0.40
1:EA:1085:LEU:H	1:EA:1085:LEU:HG	1.55	0.40
2:EB:38:LEU:HD13	2:EB:38:LEU:HA	1.78	0.40
2:EB:751:ILE:HG22	2:EB:770:ASN:OD1	2.21	0.40
2:EB:985:ILE:H	2:EB:985:ILE:HG12	1.60	0.40
2:EB:1111:LEU:HD23	2:EB:1111:LEU:H	1.87	0.40
3:EC:128:ASP:HB2	3:EC:129:GLU:H	1.73	0.40
3:EC:317:SER:O	3:EC:320:ILE:HB	2.22	0.40
5:EE:20:LYS:NZ	5:EE:34:GLU:O	2.47	0.40
5:EE:143:ASN:HB3	5:EE:146:HIS:CE1	2.57	0.40
7:EG:86:GLY:O	7:EG:120:VAL:HG23	2.21	0.40
1:FA:125:LEU:CD1	1:FA:219:LEU:HD12	2.50	0.40
1:FA:453:ILE:HA	1:FA:454:PRO:HD3	1.98	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:FA:574:ASN:ND2	6:FF:104:ASN:HD21	2.20	0.40
1:FA:1142:ASP:O	1:FA:1145:GLU:N	2.54	0.40
1:FA:1447:GLN:HE21	1:FA:1459:LYS:HA	1.87	0.40
1:FA:1622:LEU:HD11	2:FB:1194:ILE:HD13	2.03	0.40
2:FB:45:HIS:CE1	2:FB:205:MET:SD	3.15	0.40
2:FB:392:ASP:HB3	2:FB:399:HIS:NE2	2.36	0.40
2:FB:413:LEU:HD13	2:FB:413:LEU:HA	1.74	0.40
2:FB:527:PHE:HE2	2:FB:669:GLN:NE2	2.19	0.40
2:FB:714:ARG:HG2	2:FB:959:THR:CG2	2.52	0.40
2:FB:775:VAL:HG23	2:FB:1028:VAL:HG12	2.03	0.40
2:FB:966:SER:HB3	2:FB:967:LEU:H	1.66	0.40
3:FC:150:SER:OG	3:FC:155:GLU:OE2	2.28	0.40
3:FC:237:GLN:NE2	3:FC:288:LYS:HE2	2.36	0.40
3:FC:303:GLU:O	3:FC:304:SER:HB2	2.21	0.40
7:FG:29:ASP:C	7:FG:31:LYS:N	2.73	0.40
9:FI:33:CYS:HB2	13:FM:60:LEU:HD22	2.03	0.40
9:FI:113:THR:HA	9:FI:120:LYS:HB3	2.02	0.40
11:FK:56:GLU:H	11:FK:56:GLU:HG3	1.59	0.40
13:FM:66:THR:HB	13:FM:71:GLN:HG3	2.03	0.40
14:FN:97:SER:CB	14:FN:105:SER:HB3	2.52	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles [i](#)

### 5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	AA	1470/1664 (88%)	1124 (76%)	276 (19%)	70 (5%)	2	21
1	BA	1448/1664 (87%)	1124 (78%)	259 (18%)	65 (4%)	2	22
1	CA	1469/1664 (88%)	1131 (77%)	268 (18%)	70 (5%)	2	21
1	DA	1469/1664 (88%)	1138 (78%)	263 (18%)	68 (5%)	2	21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	EA	1468/1664 (88%)	1127 (77%)	272 (18%)	69 (5%)	2	21
1	FA	1470/1664 (88%)	1127 (77%)	274 (19%)	69 (5%)	2	21
2	AB	1142/1203 (95%)	926 (81%)	158 (14%)	58 (5%)	2	19
2	BB	1141/1203 (95%)	923 (81%)	164 (14%)	54 (5%)	2	21
2	CB	1160/1203 (96%)	921 (79%)	171 (15%)	68 (6%)	1	17
2	DB	1155/1203 (96%)	923 (80%)	172 (15%)	60 (5%)	2	19
2	EB	1154/1203 (96%)	928 (80%)	165 (14%)	61 (5%)	2	19
2	FB	1155/1203 (96%)	925 (80%)	165 (14%)	65 (6%)	2	18
3	AC	302/335 (90%)	231 (76%)	53 (18%)	18 (6%)	1	16
3	BC	302/335 (90%)	232 (77%)	53 (18%)	17 (6%)	2	18
3	CC	302/335 (90%)	234 (78%)	52 (17%)	16 (5%)	2	19
3	DC	302/335 (90%)	233 (77%)	51 (17%)	18 (6%)	1	16
3	EC	302/335 (90%)	233 (77%)	52 (17%)	17 (6%)	2	18
3	FC	302/335 (90%)	233 (77%)	51 (17%)	18 (6%)	1	16
4	AD	54/137 (39%)	49 (91%)	5 (9%)	0	100	100
4	BD	54/137 (39%)	50 (93%)	4 (7%)	0	100	100
4	CD	54/137 (39%)	49 (91%)	5 (9%)	0	100	100
4	DD	54/137 (39%)	50 (93%)	4 (7%)	0	100	100
4	ED	54/137 (39%)	50 (93%)	3 (6%)	1 (2%)	8	38
4	FD	54/137 (39%)	49 (91%)	4 (7%)	1 (2%)	8	38
5	AE	213/215 (99%)	176 (83%)	31 (15%)	6 (3%)	5	30
5	BE	213/215 (99%)	174 (82%)	32 (15%)	7 (3%)	4	26
5	CE	213/215 (99%)	174 (82%)	33 (16%)	6 (3%)	5	30
5	DE	213/215 (99%)	176 (83%)	31 (15%)	6 (3%)	5	30
5	EE	213/215 (99%)	175 (82%)	32 (15%)	6 (3%)	5	30
5	FE	213/215 (99%)	174 (82%)	33 (16%)	6 (3%)	5	30
6	AF	96/155 (62%)	85 (88%)	10 (10%)	1 (1%)	15	53
6	BF	96/155 (62%)	87 (91%)	8 (8%)	1 (1%)	15	53
6	CF	97/155 (63%)	87 (90%)	9 (9%)	1 (1%)	15	53
6	DF	97/155 (63%)	85 (88%)	11 (11%)	1 (1%)	15	53
6	EF	97/155 (63%)	88 (91%)	8 (8%)	1 (1%)	15	53

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
6	FF	97/155 (63%)	88 (91%)	7 (7%)	2 (2%)	7	36
7	AG	198/326 (61%)	143 (72%)	40 (20%)	15 (8%)	1	13
7	AO	50/326 (15%)	31 (62%)	11 (22%)	8 (16%)	0	3
7	BG	191/326 (59%)	139 (73%)	37 (19%)	15 (8%)	1	12
7	BO	49/326 (15%)	33 (67%)	11 (22%)	5 (10%)	0	8
7	CG	198/326 (61%)	145 (73%)	38 (19%)	15 (8%)	1	13
7	CO	48/326 (15%)	32 (67%)	10 (21%)	6 (12%)	0	5
7	DG	198/326 (61%)	142 (72%)	38 (19%)	18 (9%)	1	11
7	DO	50/326 (15%)	31 (62%)	12 (24%)	7 (14%)	0	4
7	EG	198/326 (61%)	144 (73%)	40 (20%)	14 (7%)	1	14
7	EO	50/326 (15%)	30 (60%)	13 (26%)	7 (14%)	0	4
7	FG	198/326 (61%)	141 (71%)	40 (20%)	17 (9%)	1	11
7	FO	50/326 (15%)	34 (68%)	13 (26%)	3 (6%)	1	16
8	AH	128/146 (88%)	106 (83%)	19 (15%)	3 (2%)	6	34
8	BH	127/146 (87%)	105 (83%)	17 (13%)	5 (4%)	3	23
8	CH	127/146 (87%)	106 (84%)	18 (14%)	3 (2%)	6	33
8	DH	130/146 (89%)	104 (80%)	20 (15%)	6 (5%)	2	21
8	EH	130/146 (89%)	106 (82%)	17 (13%)	7 (5%)	2	19
8	FH	130/146 (89%)	106 (82%)	19 (15%)	5 (4%)	3	24
9	AI	122/125 (98%)	91 (75%)	28 (23%)	3 (2%)	5	32
9	BI	91/125 (73%)	70 (77%)	19 (21%)	2 (2%)	6	35
9	CI	122/125 (98%)	93 (76%)	25 (20%)	4 (3%)	4	26
9	DI	122/125 (98%)	93 (76%)	26 (21%)	3 (2%)	5	32
9	EI	113/125 (90%)	85 (75%)	25 (22%)	3 (3%)	5	31
9	FI	122/125 (98%)	92 (75%)	25 (20%)	5 (4%)	3	22
10	AJ	66/70 (94%)	45 (68%)	16 (24%)	5 (8%)	1	13
10	BJ	67/70 (96%)	45 (67%)	18 (27%)	4 (6%)	1	16
10	CJ	66/70 (94%)	47 (71%)	15 (23%)	4 (6%)	1	16
10	DJ	67/70 (96%)	47 (70%)	16 (24%)	4 (6%)	1	16
10	EJ	66/70 (94%)	47 (71%)	15 (23%)	4 (6%)	1	16
10	FJ	66/70 (94%)	47 (71%)	16 (24%)	3 (4%)	2	22

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	AK	99/142 (70%)	79 (80%)	17 (17%)	3 (3%)	4	28
11	BK	98/142 (69%)	80 (82%)	15 (15%)	3 (3%)	4	27
11	CK	99/142 (70%)	85 (86%)	11 (11%)	3 (3%)	4	28
11	DK	99/142 (70%)	81 (82%)	14 (14%)	4 (4%)	3	23
11	EK	98/142 (69%)	80 (82%)	14 (14%)	4 (4%)	3	22
11	FK	98/142 (69%)	82 (84%)	13 (13%)	3 (3%)	4	27
12	AL	42/70 (60%)	34 (81%)	5 (12%)	3 (7%)	1	14
12	BL	42/70 (60%)	33 (79%)	6 (14%)	3 (7%)	1	14
12	CL	42/70 (60%)	33 (79%)	6 (14%)	3 (7%)	1	14
12	DL	42/70 (60%)	33 (79%)	6 (14%)	3 (7%)	1	14
12	EL	42/70 (60%)	33 (79%)	6 (14%)	3 (7%)	1	14
12	FL	42/70 (60%)	34 (81%)	5 (12%)	3 (7%)	1	14
13	AM	107/415 (26%)	81 (76%)	17 (16%)	9 (8%)	1	11
13	BM	107/415 (26%)	81 (76%)	17 (16%)	9 (8%)	1	11
13	CM	107/415 (26%)	79 (74%)	19 (18%)	9 (8%)	1	11
13	DM	107/415 (26%)	82 (77%)	15 (14%)	10 (9%)	0	10
13	EM	108/415 (26%)	80 (74%)	18 (17%)	10 (9%)	0	10
13	FM	108/415 (26%)	80 (74%)	18 (17%)	10 (9%)	0	10
14	AN	136/233 (58%)	106 (78%)	17 (12%)	13 (10%)	0	9
14	BN	137/233 (59%)	110 (80%)	16 (12%)	11 (8%)	1	12
14	CN	137/233 (59%)	109 (80%)	17 (12%)	11 (8%)	1	12
14	DN	139/233 (60%)	112 (81%)	16 (12%)	11 (8%)	1	12
14	EN	138/233 (59%)	111 (80%)	15 (11%)	12 (9%)	1	11
14	FN	139/233 (60%)	112 (81%)	15 (11%)	12 (9%)	1	11
All	All	25348/33372 (76%)	19889 (78%)	4164 (16%)	1295 (5%)	2	19

All (1295) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	AA	39	ASP
1	AA	547	ILE
1	AA	551	VAL
1	AA	710	SER
1	AA	851	VAL

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Mol	Chain	Res	Type
1	AA	936	SER
1	AA	1061	SER
1	AA	1093	SER
1	AA	1158	SER
1	AA	1215	VAL
1	AA	1251	ALA
1	AA	1252	ASP
1	AA	1264	SER
1	AA	1273	THR
1	AA	1514	ASN
1	AA	1599	ASN
2	AB	663	ILE
2	AB	676	VAL
2	AB	700	LEU
2	AB	755	ASN
2	AB	783	MET
2	AB	784	ASP
2	AB	810	ASP
2	AB	834	LYS
2	AB	896	GLN
2	AB	1025	ASP
2	AB	1042	ASP
2	AB	1044	PHE
3	AC	100	ARG
3	AC	148	LYS
5	AE	138	ALA
7	AG	99	ASP
7	AG	143	SER
7	AG	249	LEU
8	AH	109	LYS
12	AL	54	ARG
12	AL	62	LYS
13	AM	13	GLU
13	AM	85	LYS
14	AN	75	GLU
14	AN	139	VAL
7	AO	266	GLN
7	AO	303	ASP
7	AO	306	SER
7	AO	312	GLU
1	BA	39	ASP
1	BA	547	ILE

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Mol	Chain	Res	Type
1	BA	551	VAL
1	BA	710	SER
1	BA	758	GLU
1	BA	851	VAL
1	BA	936	SER
1	BA	1061	SER
1	BA	1093	SER
1	BA	1158	SER
1	BA	1215	VAL
1	BA	1251	ALA
1	BA	1252	ASP
1	BA	1264	SER
1	BA	1273	THR
1	BA	1514	ASN
1	BA	1599	ASN
2	BB	660	LYS
2	BB	663	ILE
2	BB	700	LEU
2	BB	755	ASN
2	BB	783	MET
2	BB	784	ASP
2	BB	834	LYS
2	BB	896	GLN
2	BB	1025	ASP
2	BB	1042	ASP
2	BB	1044	PHE
3	BC	148	LYS
3	BC	279	VAL
5	BE	49	SER
5	BE	138	ALA
7	BG	99	ASP
7	BG	221	ASN
8	BH	109	LYS
11	BK	99	ASN
12	BL	46	VAL
12	BL	54	ARG
12	BL	62	LYS
13	BM	17	ASP
13	BM	85	LYS
14	BN	75	GLU
14	BN	139	VAL
7	BO	313	ASN

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Mol	Chain	Res	Type
1	CA	39	ASP
1	CA	547	ILE
1	CA	551	VAL
1	CA	652	ASN
1	CA	710	SER
1	CA	851	VAL
1	CA	936	SER
1	CA	1061	SER
1	CA	1093	SER
1	CA	1158	SER
1	CA	1215	VAL
1	CA	1251	ALA
1	CA	1252	ASP
1	CA	1264	SER
1	CA	1273	THR
1	CA	1514	ASN
1	CA	1599	ASN
2	CB	90	TYR
2	CB	368	GLN
2	CB	559	SER
2	CB	660	LYS
2	CB	663	ILE
2	CB	676	VAL
2	CB	700	LEU
2	CB	755	ASN
2	CB	783	MET
2	CB	784	ASP
2	CB	834	LYS
2	CB	894	LYS
2	CB	896	GLN
2	CB	1025	ASP
2	CB	1042	ASP
2	CB	1044	PHE
3	CC	148	LYS
7	CG	99	ASP
7	CG	143	SER
7	CG	221	ASN
8	CH	109	LYS
12	CL	54	ARG
12	CL	62	LYS
13	CM	85	LYS
14	CN	75	GLU

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Mol	Chain	Res	Type
14	CN	139	VAL
7	CO	273	VAL
7	CO	274	SER
1	DA	39	ASP
1	DA	551	VAL
1	DA	710	SER
1	DA	851	VAL
1	DA	936	SER
1	DA	1061	SER
1	DA	1093	SER
1	DA	1158	SER
1	DA	1215	VAL
1	DA	1251	ALA
1	DA	1252	ASP
1	DA	1264	SER
1	DA	1273	THR
1	DA	1514	ASN
1	DA	1599	ASN
2	DB	368	GLN
2	DB	559	SER
2	DB	658	LEU
2	DB	660	LYS
2	DB	663	ILE
2	DB	700	LEU
2	DB	755	ASN
2	DB	783	MET
2	DB	784	ASP
2	DB	834	LYS
2	DB	892	SER
2	DB	893	ASN
2	DB	896	GLN
2	DB	1025	ASP
2	DB	1042	ASP
2	DB	1044	PHE
3	DC	148	LYS
3	DC	279	VAL
5	DE	49	SER
5	DE	138	ALA
7	DG	99	ASP
7	DG	143	SER
7	DG	221	ASN
7	DG	249	LEU

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Mol	Chain	Res	Type
8	DH	109	LYS
12	DL	54	ARG
12	DL	62	LYS
13	DM	85	LYS
14	DN	75	GLU
14	DN	139	VAL
7	DO	273	VAL
7	DO	301	LYS
7	DO	302	GLU
7	DO	313	ASN
1	EA	39	ASP
1	EA	255	ALA
1	EA	547	ILE
1	EA	551	VAL
1	EA	710	SER
1	EA	758	GLU
1	EA	851	VAL
1	EA	936	SER
1	EA	1061	SER
1	EA	1093	SER
1	EA	1158	SER
1	EA	1215	VAL
1	EA	1251	ALA
1	EA	1252	ASP
1	EA	1264	SER
1	EA	1273	THR
1	EA	1514	ASN
1	EA	1599	ASN
2	EB	368	GLN
2	EB	658	LEU
2	EB	660	LYS
2	EB	663	ILE
2	EB	676	VAL
2	EB	700	LEU
2	EB	755	ASN
2	EB	783	MET
2	EB	784	ASP
2	EB	810	ASP
2	EB	834	LYS
2	EB	892	SER
2	EB	894	LYS
2	EB	896	GLN

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Mol	Chain	Res	Type
2	EB	1042	ASP
2	EB	1044	PHE
3	EC	148	LYS
5	EE	144	ILE
7	EG	99	ASP
7	EG	143	SER
8	EH	109	LYS
12	EL	54	ARG
12	EL	62	LYS
13	EM	85	LYS
14	EN	75	GLU
14	EN	139	VAL
7	EO	266	GLN
7	EO	267	ALA
7	EO	307	GLU
1	FA	39	ASP
1	FA	255	ALA
1	FA	551	VAL
1	FA	652	ASN
1	FA	710	SER
1	FA	758	GLU
1	FA	851	VAL
1	FA	936	SER
1	FA	1061	SER
1	FA	1093	SER
1	FA	1158	SER
1	FA	1215	VAL
1	FA	1251	ALA
1	FA	1252	ASP
1	FA	1264	SER
1	FA	1273	THR
1	FA	1514	ASN
1	FA	1599	ASN
2	FB	90	TYR
2	FB	658	LEU
2	FB	660	LYS
2	FB	663	ILE
2	FB	676	VAL
2	FB	700	LEU
2	FB	755	ASN
2	FB	783	MET
2	FB	784	ASP

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Mol	Chain	Res	Type
2	FB	834	LYS
2	FB	892	SER
2	FB	896	GLN
2	FB	1025	ASP
2	FB	1042	ASP
2	FB	1044	PHE
3	FC	148	LYS
5	FE	49	SER
5	FE	138	ALA
7	FG	99	ASP
7	FG	143	SER
7	FG	221	ASN
8	FH	109	LYS
12	FL	54	ARG
12	FL	62	LYS
13	FM	7	VAL
13	FM	85	LYS
14	FN	75	GLU
14	FN	139	VAL
1	AA	255	ALA
1	AA	520	ARG
1	AA	619	ALA
1	AA	652	ASN
1	AA	758	GLU
1	AA	850	SER
1	AA	1272	VAL
1	AA	1464	ASP
1	AA	1482	LYS
1	AA	1503	HIS
1	AA	1650	GLY
2	AB	368	GLN
2	AB	475	GLY
2	AB	559	SER
2	AB	658	LEU
2	AB	660	LYS
2	AB	835	GLU
2	AB	877	SER
2	AB	966	SER
2	AB	971	ALA
2	AB	988	GLU
2	AB	1038	HIS
2	AB	1043	LYS

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Mol	Chain	Res	Type
3	AC	129	GLU
3	AC	173	GLY
3	AC	174	ARG
3	AC	191	ILE
3	AC	217	ALA
3	AC	279	VAL
5	AE	49	SER
5	AE	114	ASN
5	AE	144	ILE
7	AG	12	GLU
7	AG	19	LYS
7	AG	20	HIS
7	AG	100	THR
7	AG	152	ALA
7	AG	164	VAL
7	AG	221	ASN
9	AI	5	GLY
9	AI	21	ASN
10	AJ	5	VAL
10	AJ	55	ASP
11	AK	99	ASN
12	AL	46	VAL
13	AM	17	ASP
13	AM	114	LYS
14	AN	32	CYS
14	AN	73	ASP
14	AN	125	ALA
7	AO	301	LYS
7	AO	307	GLU
1	BA	347	ARG
1	BA	520	ARG
1	BA	652	ASN
1	BA	759	TYR
1	BA	850	SER
1	BA	853	THR
1	BA	1272	VAL
1	BA	1464	ASP
1	BA	1482	LYS
1	BA	1541	ILE
1	BA	1650	GLY
2	BB	38	LEU
2	BB	167	SER

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Mol	Chain	Res	Type
2	BB	368	GLN
2	BB	475	GLY
2	BB	559	SER
2	BB	658	LEU
2	BB	676	VAL
2	BB	810	ASP
2	BB	835	GLU
2	BB	877	SER
2	BB	971	ALA
2	BB	988	GLU
2	BB	989	ASP
2	BB	1038	HIS
2	BB	1043	LYS
3	BC	100	ARG
3	BC	129	GLU
3	BC	173	GLY
3	BC	303	GLU
5	BE	114	ASN
5	BE	144	ILE
7	BG	19	LYS
7	BG	20	HIS
7	BG	100	THR
7	BG	143	SER
7	BG	152	ALA
7	BG	164	VAL
7	BG	249	LEU
9	BI	5	GLY
9	BI	21	ASN
10	BJ	5	VAL
13	BM	13	GLU
13	BM	114	LYS
14	BN	32	CYS
14	BN	73	ASP
7	BO	277	LYS
7	BO	286	ILE
7	BO	302	GLU
7	BO	308	ILE
1	CA	255	ALA
1	CA	619	ALA
1	CA	704	ASP
1	CA	758	GLU
1	CA	759	TYR

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Mol	Chain	Res	Type
1	CA	850	SER
1	CA	853	THR
1	CA	1160	GLY
1	CA	1272	VAL
1	CA	1464	ASP
1	CA	1482	LYS
1	CA	1503	HIS
1	CA	1650	GLY
2	CB	12	ARG
2	CB	38	LEU
2	CB	475	GLY
2	CB	658	LEU
2	CB	756	LEU
2	CB	810	ASP
2	CB	835	GLU
2	CB	877	SER
2	CB	892	SER
2	CB	971	ALA
2	CB	988	GLU
2	CB	1038	HIS
2	CB	1043	LYS
2	CB	1181	VAL
3	CC	100	ARG
3	CC	173	GLY
3	CC	174	ARG
3	CC	191	ILE
3	CC	279	VAL
3	CC	303	GLU
3	CC	307	ALA
5	CE	49	SER
5	CE	114	ASN
5	CE	138	ALA
5	CE	144	ILE
7	CG	12	GLU
7	CG	20	HIS
7	CG	100	THR
7	CG	152	ALA
7	CG	164	VAL
7	CG	249	LEU
9	CI	5	GLY
9	CI	21	ASN
10	CJ	55	ASP

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Mol	Chain	Res	Type
11	CK	99	ASN
12	CL	46	VAL
13	CM	13	GLU
13	CM	16	GLN
13	CM	17	ASP
13	CM	114	LYS
14	CN	32	CYS
14	CN	73	ASP
7	CO	304	ASN
1	DA	255	ALA
1	DA	520	ARG
1	DA	547	ILE
1	DA	652	ASN
1	DA	704	ASP
1	DA	758	GLU
1	DA	759	TYR
1	DA	850	SER
1	DA	1160	GLY
1	DA	1272	VAL
1	DA	1464	ASP
1	DA	1482	LYS
1	DA	1503	HIS
1	DA	1541	ILE
1	DA	1650	GLY
2	DB	38	LEU
2	DB	167	SER
2	DB	475	GLY
2	DB	676	VAL
2	DB	810	ASP
2	DB	835	GLU
2	DB	877	SER
2	DB	971	ALA
2	DB	988	GLU
2	DB	1038	HIS
2	DB	1043	LYS
3	DC	100	ARG
3	DC	129	GLU
3	DC	173	GLY
3	DC	217	ALA
5	DE	114	ASN
5	DE	144	ILE
7	DG	12	GLU

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Mol	Chain	Res	Type
7	DG	19	LYS
7	DG	20	HIS
7	DG	100	THR
7	DG	152	ALA
7	DG	164	VAL
9	DI	5	GLY
9	DI	21	ASN
10	DJ	5	VAL
11	DK	99	ASN
12	DL	46	VAL
13	DM	13	GLU
13	DM	17	ASP
13	DM	114	LYS
14	DN	32	CYS
14	DN	73	ASP
7	DO	275	ASN
1	EA	652	ASN
1	EA	759	TYR
1	EA	850	SER
1	EA	940	VAL
1	EA	1050	TYR
1	EA	1160	GLY
1	EA	1272	VAL
1	EA	1347	ALA
1	EA	1464	ASP
1	EA	1482	LYS
1	EA	1503	HIS
1	EA	1650	GLY
2	EB	475	GLY
2	EB	559	SER
2	EB	701	ALA
2	EB	756	LEU
2	EB	835	GLU
2	EB	877	SER
2	EB	966	SER
2	EB	971	ALA
2	EB	988	GLU
2	EB	1025	ASP
2	EB	1038	HIS
2	EB	1043	LYS
3	EC	100	ARG
3	EC	129	GLU

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Mol	Chain	Res	Type
3	EC	173	GLY
3	EC	191	ILE
3	EC	279	VAL
3	EC	303	GLU
3	EC	307	ALA
5	EE	49	SER
5	EE	114	ASN
5	EE	138	ALA
7	EG	12	GLU
7	EG	19	LYS
7	EG	20	HIS
7	EG	100	THR
7	EG	152	ALA
7	EG	164	VAL
7	EG	221	ASN
7	EG	249	LEU
8	EH	76	THR
9	EI	5	GLY
10	EJ	5	VAL
10	EJ	55	ASP
11	EK	99	ASN
12	EL	46	VAL
13	EM	7	VAL
13	EM	13	GLU
13	EM	16	GLN
13	EM	17	ASP
13	EM	114	LYS
14	EN	73	ASP
1	FA	547	ILE
1	FA	759	TYR
1	FA	850	SER
1	FA	853	THR
1	FA	1160	GLY
1	FA	1272	VAL
1	FA	1347	ALA
1	FA	1464	ASP
1	FA	1482	LYS
1	FA	1503	HIS
1	FA	1650	GLY
2	FB	368	GLN
2	FB	475	GLY
2	FB	559	SER

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Mol	Chain	Res	Type
2	FB	810	ASP
2	FB	835	GLU
2	FB	877	SER
2	FB	966	SER
2	FB	971	ALA
2	FB	988	GLU
2	FB	1038	HIS
2	FB	1043	LYS
3	FC	100	ARG
3	FC	173	GLY
3	FC	279	VAL
3	FC	303	GLU
5	FE	114	ASN
5	FE	144	ILE
7	FG	12	GLU
7	FG	19	LYS
7	FG	20	HIS
7	FG	100	THR
7	FG	152	ALA
7	FG	164	VAL
7	FG	249	LEU
8	FH	77	ARG
9	FI	5	GLY
9	FI	21	ASN
9	FI	95	ASN
10	FJ	5	VAL
10	FJ	55	ASP
11	FK	59	THR
11	FK	99	ASN
12	FL	46	VAL
13	FM	13	GLU
13	FM	17	ASP
14	FN	32	CYS
14	FN	66	LYS
14	FN	73	ASP
7	FO	282	ASP
1	AA	216	ARG
1	AA	347	ARG
1	AA	538	ASN
1	AA	552	GLU
1	AA	704	ASP
1	AA	759	TYR

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Mol	Chain	Res	Type
1	AA	843	ARG
1	AA	853	THR
1	AA	940	VAL
1	AA	956	ARG
1	AA	1160	GLY
1	AA	1347	ALA
1	AA	1541	ILE
2	AB	38	LEU
2	AB	60	LEU
2	AB	167	SER
2	AB	291	GLY
2	AB	662	ASP
2	AB	756	LEU
2	AB	767	ASN
2	AB	989	ASP
2	AB	1022	LEU
2	AB	1045	GLN
2	AB	1156	SER
2	AB	1181	VAL
3	AC	303	GLU
3	AC	307	ALA
5	AE	2	ASP
9	AI	95	ASN
10	AJ	61	LEU
11	AK	59	THR
13	AM	16	GLN
13	AM	49	ASP
14	AN	65	SER
14	AN	66	LYS
14	AN	115	SER
14	AN	179	ASP
7	AO	304	ASN
1	BA	138	GLU
1	BA	216	ARG
1	BA	442	LYS
1	BA	538	ASN
1	BA	552	GLU
1	BA	619	ALA
1	BA	704	ASP
1	BA	940	VAL
1	BA	1033	SER
1	BA	1050	TYR

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Mol	Chain	Res	Type
1	BA	1347	ALA
1	BA	1503	HIS
1	BA	1527	GLN
2	BB	499	HIS
2	BB	756	LEU
2	BB	867	ASN
2	BB	898	LEU
2	BB	966	SER
2	BB	1022	LEU
2	BB	1045	GLN
3	BC	174	ARG
3	BC	191	ILE
3	BC	217	ALA
3	BC	307	ALA
5	BE	206	GLY
8	BH	20	TYR
10	BJ	55	ASP
11	BK	59	THR
13	BM	16	GLN
13	BM	19	PRO
14	BN	66	LYS
14	BN	115	SER
1	CA	211	THR
1	CA	347	ARG
1	CA	442	LYS
1	CA	520	ARG
1	CA	538	ASN
1	CA	1050	TYR
1	CA	1245	ASP
1	CA	1347	ALA
1	CA	1541	ILE
2	CB	10	GLN
2	CB	167	SER
2	CB	291	GLY
2	CB	398	GLN
2	CB	662	ASP
2	CB	767	ASN
2	CB	966	SER
2	CB	1022	LEU
2	CB	1045	GLN
3	CC	129	GLU
7	CG	19	LYS

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Mol	Chain	Res	Type
7	CG	101	SER
8	CH	20	TYR
9	CI	95	ASN
10	CJ	5	VAL
11	CK	59	THR
14	CN	66	LYS
14	CN	78	THR
14	CN	115	SER
1	DA	442	LYS
1	DA	619	ALA
1	DA	791	TYR
1	DA	853	THR
1	DA	1033	SER
1	DA	1050	TYR
1	DA	1347	ALA
2	DB	76	GLY
2	DB	212	ASN
2	DB	398	GLN
2	DB	701	ALA
2	DB	756	LEU
2	DB	767	ASN
2	DB	989	ASP
2	DB	1022	LEU
2	DB	1094	ASN
2	DB	1181	VAL
3	DC	174	ARG
3	DC	191	ILE
3	DC	303	GLU
3	DC	307	ALA
5	DE	2	ASP
7	DG	222	GLY
10	DJ	55	ASP
11	DK	59	THR
13	DM	16	GLN
14	DN	66	LYS
14	DN	83	ASP
14	DN	115	SER
14	DN	125	ALA
1	EA	74	GLY
1	EA	211	THR
1	EA	520	ARG
1	EA	538	ASN

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Mol	Chain	Res	Type
1	EA	552	GLU
1	EA	558	ALA
1	EA	677	GLY
1	EA	701	ARG
1	EA	704	ASP
1	EA	843	ARG
1	EA	853	THR
1	EA	956	ARG
1	EA	1033	SER
1	EA	1527	GLN
1	EA	1541	ILE
2	EB	38	LEU
2	EB	167	SER
2	EB	291	GLY
2	EB	367	SER
2	EB	767	ASN
2	EB	898	LEU
2	EB	1181	VAL
3	EC	68	ARG
8	EH	77	ARG
9	EI	95	ASN
11	EK	59	THR
13	EM	19	PRO
14	EN	32	CYS
14	EN	66	LYS
14	EN	115	SER
7	EO	291	SER
1	FA	216	ARG
1	FA	347	ARG
1	FA	520	ARG
1	FA	552	GLU
1	FA	677	GLY
1	FA	701	ARG
1	FA	704	ASP
1	FA	956	ARG
1	FA	1050	TYR
1	FA	1527	GLN
2	FB	20	GLU
2	FB	38	LEU
2	FB	60	LEU
2	FB	91	LEU
2	FB	167	SER

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Mol	Chain	Res	Type
2	FB	291	GLY
2	FB	349	VAL
2	FB	398	GLN
2	FB	701	ALA
2	FB	756	LEU
2	FB	767	ASN
2	FB	1007	TYR
2	FB	1022	LEU
3	FC	129	GLU
3	FC	174	ARG
3	FC	191	ILE
3	FC	217	ALA
3	FC	307	ALA
5	FE	2	ASP
7	FG	30	GLU
7	FG	32	ASN
7	FG	222	GLY
8	FH	20	TYR
9	FI	83	LYS
13	FM	16	GLN
13	FM	19	PRO
13	FM	114	LYS
14	FN	83	ASP
14	FN	115	SER
14	FN	125	ALA
7	FO	307	GLU
1	AA	211	THR
1	AA	442	LYS
1	AA	627	ASP
1	AA	701	ARG
1	AA	1033	SER
1	AA	1050	TYR
1	AA	1245	ASP
1	AA	1473	LYS
2	AB	212	ASN
2	AB	398	GLN
2	AB	519	LYS
2	AB	532	HIS
2	AB	701	ALA
2	AB	867	ASN
3	AC	87	ASN
5	AE	206	GLY

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Mol	Chain	Res	Type
7	AG	32	ASN
7	AG	222	GLY
13	AM	19	PRO
14	AN	78	THR
14	AN	83	ASP
1	BA	211	THR
1	BA	441	THR
1	BA	558	ALA
1	BA	627	ASP
1	BA	701	ARG
1	BA	843	ARG
1	BA	956	ARG
1	BA	987	TYR
1	BA	1245	ASP
1	BA	1473	LYS
2	BB	20	GLU
2	BB	291	GLY
2	BB	398	GLN
2	BB	662	ASP
2	BB	701	ALA
2	BB	767	ASN
2	BB	1094	ASN
2	BB	1156	SER
3	BC	68	ARG
5	BE	2	ASP
7	BG	30	GLU
7	BG	32	ASN
7	BG	222	GLY
10	BJ	17	LYS
13	BM	49	ASP
14	BN	78	THR
14	BN	83	ASP
14	BN	125	ALA
1	CA	22	LYS
1	CA	216	ARG
1	CA	552	GLU
1	CA	627	ASP
1	CA	701	ARG
1	CA	837	ALA
1	CA	956	ARG
1	CA	1441	LYS
1	CA	1473	LYS

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Mol	Chain	Res	Type
1	CA	1527	GLN
2	CB	60	LEU
2	CB	212	ASN
2	CB	519	LYS
2	CB	701	ALA
2	CB	867	ASN
2	CB	989	ASP
2	CB	1061	LYS
2	CB	1156	SER
3	CC	99	HIS
7	CG	30	GLU
7	CG	222	GLY
13	CM	19	PRO
14	CN	83	ASP
14	CN	125	ALA
1	DA	211	THR
1	DA	216	ARG
1	DA	347	ARG
1	DA	441	THR
1	DA	538	ASN
1	DA	552	GLU
1	DA	627	ASP
1	DA	701	ARG
1	DA	843	ARG
1	DA	940	VAL
1	DA	956	ARG
1	DA	1245	ASP
1	DA	1441	LYS
1	DA	1473	LYS
1	DA	1527	GLN
2	DB	60	LEU
2	DB	519	LYS
2	DB	616	LYS
2	DB	662	ASP
2	DB	966	SER
2	DB	1045	GLN
2	DB	1156	SER
7	DG	29	ASP
7	DG	30	GLU
7	DG	101	SER
8	DH	6	PHE
8	DH	20	TYR

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Mol	Chain	Res	Type
8	DH	145	ARG
9	DI	95	ASN
13	DM	19	PRO
14	DN	65	SER
14	DN	78	THR
7	DO	274	SER
1	EA	138	GLU
1	EA	188	TYR
1	EA	216	ARG
1	EA	347	ARG
1	EA	619	ALA
1	EA	627	ASP
1	EA	1344	ILE
1	EA	1441	LYS
1	EA	1473	LYS
2	EB	77	LYS
2	EB	257	GLN
2	EB	297	VAL
2	EB	662	ASP
2	EB	989	ASP
2	EB	1007	TYR
2	EB	1022	LEU
2	EB	1045	GLN
3	EC	99	HIS
3	EC	174	ARG
7	EG	30	GLU
7	EG	222	GLY
8	EH	6	PHE
13	EM	49	ASP
14	EN	65	SER
14	EN	125	ALA
7	EO	271	PRO
1	FA	442	LYS
1	FA	538	ASN
1	FA	627	ASP
1	FA	923	ASN
1	FA	940	VAL
1	FA	1441	LYS
1	FA	1473	LYS
1	FA	1541	ILE
2	FB	257	GLN
2	FB	494	TYR

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Mol	Chain	Res	Type
2	FB	519	LYS
2	FB	867	ASN
2	FB	894	LYS
2	FB	1045	GLN
2	FB	1156	SER
3	FC	68	ARG
7	FG	29	ASP
7	FG	101	SER
8	FH	6	PHE
8	FH	138	GLU
14	FN	65	SER
14	FN	78	THR
7	FO	294	GLU
1	AA	138	GLU
1	AA	322	ASN
1	AA	441	THR
1	AA	987	TYR
1	AA	1441	LYS
1	AA	1527	GLN
1	AA	1586	ALA
2	AB	257	GLN
2	AB	1052	VAL
2	AB	1094	ASN
2	AB	1153	ILE
3	AC	68	ARG
3	AC	304	SER
7	AG	30	GLU
8	AH	20	TYR
10	AJ	17	LYS
13	AM	12	ILE
13	AM	88	ILE
14	AN	140	SER
7	AO	282	ASP
1	BA	791	TYR
1	BA	1025	LYS
1	BA	1344	ILE
1	BA	1441	LYS
2	BB	519	LYS
2	BB	532	HIS
2	BB	1052	VAL
3	BC	87	ASN
3	BC	94	ASP

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Mol	Chain	Res	Type
5	BE	102	GLU
7	BG	29	ASP
7	BG	57	PRO
8	BH	6	PHE
8	BH	138	GLU
8	BH	145	ARG
13	BM	12	ILE
1	CA	188	TYR
1	CA	466	LEU
1	CA	623	ALA
1	CA	625	ASN
1	CA	794	VAL
1	CA	887	ASN
1	CA	940	VAL
1	CA	987	TYR
2	CB	349	VAL
2	CB	494	TYR
2	CB	898	LEU
2	CB	965	GLU
2	CB	1052	VAL
2	CB	1094	ASN
2	CB	1153	ILE
3	CC	87	ASN
3	CC	94	ASP
3	CC	217	ALA
5	CE	2	ASP
5	CE	206	GLY
8	CH	6	PHE
10	CJ	17	LYS
13	CM	12	ILE
13	CM	49	ASP
14	CN	65	SER
14	CN	72	VAL
7	CO	281	ASP
1	DA	188	TYR
1	DA	558	ALA
1	DA	623	ALA
1	DA	625	ASN
1	DA	987	TYR
1	DA	1185	VAL
1	DA	1472	PHE
1	DA	1502	PRO

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Mol	Chain	Res	Type
2	DB	257	GLN
2	DB	291	GLY
2	DB	349	VAL
2	DB	867	ASN
2	DB	1052	VAL
3	DC	94	ASP
3	DC	286	ALA
3	DC	304	SER
7	DG	32	ASN
7	DG	109	PRO
8	DH	138	GLU
13	DM	88	ILE
7	DO	267	ALA
1	EA	22	LYS
1	EA	623	ALA
1	EA	804	GLU
1	EA	837	ALA
1	EA	1068	PHE
1	EA	1245	ASP
2	EB	20	GLU
2	EB	60	LEU
2	EB	494	TYR
2	EB	519	LYS
2	EB	1052	VAL
2	EB	1061	LYS
2	EB	1094	ASN
2	EB	1156	SER
3	EC	71	MET
3	EC	94	ASP
3	EC	304	SER
4	ED	26	GLN
5	EE	2	ASP
5	EE	206	GLY
7	EG	109	PRO
8	EH	20	TYR
8	EH	138	GLU
10	EJ	17	LYS
14	EN	78	THR
14	EN	83	ASP
7	EO	300	VAL
7	EO	308	ILE
1	FA	141	LEU

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Mol	Chain	Res	Type
1	FA	322	ASN
1	FA	558	ALA
1	FA	610	ASN
1	FA	794	VAL
1	FA	843	ARG
1	FA	887	ASN
1	FA	1245	ASP
2	FB	89	GLY
2	FB	662	ASP
2	FB	989	ASP
2	FB	1052	VAL
2	FB	1061	LYS
2	FB	1094	ASN
2	FB	1153	ILE
3	FC	87	ASN
3	FC	94	ASP
3	FC	286	ALA
3	FC	310	PRO
7	FG	109	PRO
9	FI	102	ARG
13	FM	12	ILE
13	FM	88	ILE
1	AA	188	TYR
1	AA	466	LEU
1	AA	623	ALA
1	AA	677	GLY
1	AA	1185	VAL
1	AA	1502	PRO
2	AB	349	VAL
2	AB	657	PRO
2	AB	1061	LYS
3	AC	115	TRP
3	AC	149	GLY
3	AC	310	PRO
7	AG	109	PRO
1	BA	188	TYR
1	BA	623	ALA
1	BA	794	VAL
1	BA	1068	PHE
1	BA	1502	PRO
2	BB	911	PRO
2	BB	913	ILE

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Mol	Chain	Res	Type
2	BB	1181	VAL
6	BF	139	PRO
13	BM	88	ILE
14	BN	65	SER
1	CA	53	ALA
1	CA	393	SER
1	CA	677	GLY
1	CA	843	ARG
1	CA	1067	GLU
1	CA	1502	PRO
1	CA	1621	PHE
2	CB	257	GLN
2	CB	499	HIS
2	CB	532	HIS
2	CB	913	ILE
3	CC	149	GLY
6	CF	139	PRO
7	CG	109	PRO
9	CI	102	ARG
13	CM	88	ILE
7	CO	279	VAL
1	DA	677	GLY
1	DA	790	LYS
1	DA	794	VAL
1	DA	1586	ALA
2	DB	657	PRO
2	DB	898	LEU
2	DB	972	GLY
2	DB	1153	ILE
3	DC	87	ASN
3	DC	149	GLY
3	DC	310	PRO
10	DJ	17	LYS
13	DM	49	ASP
1	EA	466	LEU
1	EA	794	VAL
2	EB	491	ILE
2	EB	657	PRO
2	EB	867	ASN
9	EI	83	LYS
13	EM	12	ILE
14	EN	140	SER

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Mol	Chain	Res	Type
1	FA	463	LYS
1	FA	564	PRO
1	FA	623	ALA
1	FA	1005	GLY
1	FA	1081	ASN
1	FA	1183	GLU
1	FA	1185	VAL
1	FA	1502	PRO
1	FA	1586	ALA
2	FB	657	PRO
2	FB	913	ILE
2	FB	1093	LEU
2	FB	1120	ILE
2	FB	1181	VAL
4	FD	26	GLN
5	FE	206	GLY
6	FF	112	GLU
6	FF	139	PRO
7	FG	57	PRO
14	FN	140	SER
1	AA	1005	GLY
1	BA	564	PRO
1	BA	677	GLY
3	BC	149	GLY
14	BN	72	VAL
3	CC	252	PRO
7	CO	271	PRO
1	DA	1005	GLY
1	DA	1602	GLY
2	DB	911	PRO
2	DB	913	ILE
5	DE	206	GLY
6	DF	139	PRO
7	DG	57	PRO
11	DK	84	PRO
13	DM	12	ILE
14	DN	72	VAL
1	EA	1005	GLY
1	EA	1502	PRO
2	EB	349	VAL
2	EB	972	GLY
2	EB	1120	ILE

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Mol	Chain	Res	Type
2	EB	1153	ILE
3	EC	149	GLY
6	EF	139	PRO
7	EG	57	PRO
11	EK	84	PRO
13	EM	88	ILE
2	FB	76	GLY
2	FB	911	PRO
2	FB	972	GLY
3	FC	149	GLY
3	FC	252	PRO
14	FN	72	VAL
1	AA	564	PRO
1	AA	794	VAL
1	AA	1602	GLY
2	AB	148	GLY
2	AB	911	PRO
2	AB	913	ILE
6	AF	139	PRO
11	AK	109	GLY
1	BA	1160	GLY
1	BA	1185	VAL
2	BB	349	VAL
2	BB	972	GLY
3	BC	132	ILE
7	BG	109	PRO
2	CB	657	PRO
7	CG	57	PRO
1	DA	564	PRO
2	DB	903	ILE
7	DG	86	GLY
1	EA	564	PRO
1	EA	793	ILE
1	EA	1081	ASN
1	EA	1602	GLY
3	EC	147	PRO
8	EH	107	VAL
14	EN	72	VAL
10	FJ	14	VAL
11	FK	109	GLY
1	AA	742	PRO
1	AA	1509	HIS

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Mol	Chain	Res	Type
2	AB	297	VAL
7	AG	57	PRO
10	AJ	14	VAL
2	BB	1062	GLY
3	BC	310	PRO
1	CA	564	PRO
1	CA	1081	ASN
1	CA	1344	ILE
2	CB	148	GLY
2	CB	297	VAL
2	CB	491	ILE
2	CB	972	GLY
3	CC	310	PRO
10	CJ	14	VAL
11	CK	109	GLY
2	DB	148	GLY
2	DB	1062	GLY
3	DC	147	PRO
11	DK	109	GLY
1	EA	1185	VAL
2	EB	148	GLY
2	EB	833	PRO
2	EB	1062	GLY
3	EC	132	ILE
1	FA	1602	GLY
2	FB	148	GLY
1	AA	1344	ILE
2	AB	491	ILE
2	AB	1062	GLY
2	AB	1120	ILE
3	AC	147	PRO
8	AH	18	GLY
14	AN	72	VAL
1	BA	1081	ASN
2	BB	148	GLY
2	BB	491	ILE
2	BB	657	PRO
2	BB	1120	ILE
3	BC	147	PRO
10	BJ	14	VAL
11	BK	109	GLY
1	CA	3	ILE

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Mol	Chain	Res	Type
2	CB	833	PRO
2	CB	911	PRO
2	CB	960	ILE
1	DA	1322	ILE
2	DB	297	VAL
2	DB	491	ILE
3	DC	252	PRO
8	DH	82	PRO
10	DJ	14	VAL
10	EJ	14	VAL
11	EK	109	GLY
1	FA	323	ILE
1	FA	1344	ILE
1	FA	1509	HIS
2	FB	491	ILE
2	FB	903	ILE
2	FB	1062	GLY
3	FC	147	PRO
13	FM	113	ILE
1	AA	1081	ASN
1	AA	1118	VAL
2	AB	833	PRO
2	AB	972	GLY
3	AC	252	PRO
1	CA	1185	VAL
1	CA	1602	GLY
2	CB	903	ILE
2	CB	1062	GLY
13	DM	113	ILE
1	FA	1118	VAL

### 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 X-ray entries followed by that with respect to entries of similar resolution.

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	AA	1310/1465 (89%)	1024 (78%)	286 (22%)	<b>1</b> <b>6</b>

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	BA	1290/1465 (88%)	1012 (78%)	278 (22%)	1	6
1	CA	1308/1465 (89%)	1020 (78%)	288 (22%)	1	6
1	DA	1309/1465 (89%)	1019 (78%)	290 (22%)	1	6
1	EA	1309/1465 (89%)	1025 (78%)	284 (22%)	1	6
1	FA	1309/1465 (89%)	1019 (78%)	290 (22%)	1	6
2	AB	1012/1053 (96%)	780 (77%)	232 (23%)	1	5
2	BB	1010/1053 (96%)	783 (78%)	227 (22%)	1	6
2	CB	1024/1053 (97%)	778 (76%)	246 (24%)	0	4
2	DB	1020/1053 (97%)	784 (77%)	236 (23%)	1	5
2	EB	1021/1053 (97%)	782 (77%)	239 (23%)	1	5
2	FB	1021/1053 (97%)	780 (76%)	241 (24%)	1	5
3	AC	268/296 (90%)	217 (81%)	51 (19%)	1	9
3	BC	268/296 (90%)	217 (81%)	51 (19%)	1	9
3	CC	268/296 (90%)	216 (81%)	52 (19%)	1	9
3	DC	268/296 (90%)	217 (81%)	51 (19%)	1	9
3	EC	268/296 (90%)	216 (81%)	52 (19%)	1	9
3	FC	268/296 (90%)	218 (81%)	50 (19%)	1	9
4	AD	55/116 (47%)	47 (86%)	8 (14%)	3	16
4	BD	55/116 (47%)	46 (84%)	9 (16%)	2	13
4	CD	55/116 (47%)	47 (86%)	8 (14%)	3	16
4	DD	55/116 (47%)	46 (84%)	9 (16%)	2	13
4	ED	55/116 (47%)	47 (86%)	8 (14%)	3	16
4	FD	55/116 (47%)	47 (86%)	8 (14%)	3	16
5	AE	197/197 (100%)	158 (80%)	39 (20%)	1	8
5	BE	197/197 (100%)	159 (81%)	38 (19%)	1	9
5	CE	197/197 (100%)	157 (80%)	40 (20%)	1	7
5	DE	197/197 (100%)	157 (80%)	40 (20%)	1	7
5	EE	197/197 (100%)	157 (80%)	40 (20%)	1	7
5	FE	197/197 (100%)	156 (79%)	41 (21%)	1	7
6	AF	88/137 (64%)	75 (85%)	13 (15%)	3	16
6	BF	88/137 (64%)	75 (85%)	13 (15%)	3	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
6	CF	89/137 (65%)	73 (82%)	16 (18%)	1	10
6	DF	89/137 (65%)	74 (83%)	15 (17%)	2	12
6	EF	89/137 (65%)	75 (84%)	14 (16%)	2	14
6	FF	89/137 (65%)	73 (82%)	16 (18%)	1	10
7	AG	180/291 (62%)	131 (73%)	49 (27%)	0	3
7	AO	50/291 (17%)	29 (58%)	21 (42%)	0	0
7	BG	173/291 (60%)	128 (74%)	45 (26%)	0	3
7	BO	49/291 (17%)	33 (67%)	16 (33%)	0	2
7	CG	180/291 (62%)	131 (73%)	49 (27%)	0	3
7	CO	48/291 (16%)	35 (73%)	13 (27%)	0	3
7	DG	180/291 (62%)	132 (73%)	48 (27%)	0	3
7	DO	50/291 (17%)	32 (64%)	18 (36%)	0	1
7	EG	180/291 (62%)	133 (74%)	47 (26%)	0	3
7	EO	50/291 (17%)	33 (66%)	17 (34%)	0	1
7	FG	180/291 (62%)	130 (72%)	50 (28%)	0	3
7	FO	50/291 (17%)	36 (72%)	14 (28%)	0	3
8	AH	116/128 (91%)	86 (74%)	30 (26%)	0	4
8	BH	115/128 (90%)	87 (76%)	28 (24%)	0	4
8	CH	115/128 (90%)	84 (73%)	31 (27%)	0	3
8	DH	117/128 (91%)	86 (74%)	31 (26%)	0	3
8	EH	117/128 (91%)	84 (72%)	33 (28%)	0	3
8	FH	117/128 (91%)	85 (73%)	32 (27%)	0	3
9	AI	109/110 (99%)	84 (77%)	25 (23%)	1	5
9	BI	86/110 (78%)	67 (78%)	19 (22%)	1	6
9	CI	109/110 (99%)	83 (76%)	26 (24%)	0	4
9	DI	109/110 (99%)	81 (74%)	28 (26%)	0	4
9	EI	104/110 (94%)	79 (76%)	25 (24%)	0	4
9	FI	109/110 (99%)	80 (73%)	29 (27%)	0	3
10	AJ	63/65 (97%)	47 (75%)	16 (25%)	0	4
10	BJ	64/65 (98%)	49 (77%)	15 (23%)	1	5
10	CJ	63/65 (97%)	49 (78%)	14 (22%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
10	DJ	64/65 (98%)	49 (77%)	15 (23%)	1	5
10	EJ	63/65 (97%)	50 (79%)	13 (21%)	1	7
10	FJ	63/65 (97%)	49 (78%)	14 (22%)	1	6
11	AK	91/130 (70%)	66 (72%)	25 (28%)	0	3
11	BK	90/130 (69%)	66 (73%)	24 (27%)	0	3
11	CK	91/130 (70%)	67 (74%)	24 (26%)	0	3
11	DK	91/130 (70%)	66 (72%)	25 (28%)	0	3
11	EK	90/130 (69%)	66 (73%)	24 (27%)	0	3
11	FK	90/130 (69%)	65 (72%)	25 (28%)	0	3
12	AL	39/57 (68%)	27 (69%)	12 (31%)	0	2
12	BL	39/57 (68%)	27 (69%)	12 (31%)	0	2
12	CL	39/57 (68%)	27 (69%)	12 (31%)	0	2
12	DL	39/57 (68%)	27 (69%)	12 (31%)	0	2
12	EL	39/57 (68%)	27 (69%)	12 (31%)	0	2
12	FL	39/57 (68%)	27 (69%)	12 (31%)	0	2
13	AM	99/371 (27%)	73 (74%)	26 (26%)	0	3
13	BM	99/371 (27%)	74 (75%)	25 (25%)	0	4
13	CM	99/371 (27%)	74 (75%)	25 (25%)	0	4
13	DM	99/371 (27%)	74 (75%)	25 (25%)	0	4
13	EM	100/371 (27%)	73 (73%)	27 (27%)	0	3
13	FM	100/371 (27%)	75 (75%)	25 (25%)	0	4
14	AN	132/220 (60%)	96 (73%)	36 (27%)	0	3
14	BN	133/220 (60%)	98 (74%)	35 (26%)	0	3
14	CN	133/220 (60%)	95 (71%)	38 (29%)	0	2
14	DN	135/220 (61%)	97 (72%)	38 (28%)	0	3
14	EN	134/220 (61%)	97 (72%)	37 (28%)	0	3
14	FN	135/220 (61%)	99 (73%)	36 (27%)	0	3
All	All	22843/29562 (77%)	17621 (77%)	5222 (23%)	1	5

All (5222) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	AA	3	ILE

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Mol	Chain	Res	Type
1	AA	9	SER
1	AA	12	THR
1	AA	18	ILE
1	AA	20	THR
1	AA	31	GLN
1	AA	40	ASN
1	AA	41	LEU
1	AA	83	VAL
1	AA	86	TYR
1	AA	89	LEU
1	AA	107	HIS
1	AA	109	ARG
1	AA	112	SER
1	AA	130	ILE
1	AA	136	LEU
1	AA	176	THR
1	AA	177	LEU
1	AA	179	ASN
1	AA	180	GLU
1	AA	186	SER
1	AA	198	SER
1	AA	199	ASP
1	AA	202	THR
1	AA	203	THR
1	AA	204	GLU
1	AA	205	ARG
1	AA	208	PHE
1	AA	265	ARG
1	AA	267	LYS
1	AA	312	SER
1	AA	315	ILE
1	AA	325	ASP
1	AA	326	THR
1	AA	330	LYS
1	AA	333	CYS
1	AA	345	LEU
1	AA	346	SER
1	AA	347	ARG
1	AA	349	LEU
1	AA	357	MET
1	AA	366	ARG
1	AA	371	SER

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Mol	Chain	Res	Type
1	AA	372	LYS
1	AA	373	LEU
1	AA	375	GLU
1	AA	381	SER
1	AA	397	ARG
1	AA	398	ASP
1	AA	403	LEU
1	AA	406	LEU
1	AA	407	GLN
1	AA	409	ASP
1	AA	417	ARG
1	AA	423	LEU
1	AA	429	THR
1	AA	444	GLN
1	AA	453	ILE
1	AA	464	GLU
1	AA	466	LEU
1	AA	475	ARG
1	AA	481	ARG
1	AA	483	VAL
1	AA	484	ILE
1	AA	500	VAL
1	AA	504	LYS
1	AA	505	LEU
1	AA	506	THR
1	AA	512	THR
1	AA	529	LYS
1	AA	534	THR
1	AA	545	SER
1	AA	549	MET
1	AA	553	GLN
1	AA	559	ASN
1	AA	562	LEU
1	AA	565	SER
1	AA	566	SER
1	AA	568	VAL
1	AA	574	ASN
1	AA	575	LYS
1	AA	576	LYS
1	AA	577	VAL
1	AA	581	ILE
1	AA	582	LYS

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Mol	Chain	Res	Type
1	AA	583	ASN
1	AA	590	ASN
1	AA	594	THR
1	AA	595	LEU
1	AA	596	HIS
1	AA	599	SER
1	AA	613	THR
1	AA	621	THR
1	AA	627	ASP
1	AA	637	PHE
1	AA	648	LEU
1	AA	653	THR
1	AA	656	GLN
1	AA	659	THR
1	AA	666	VAL
1	AA	670	ILE
1	AA	675	SER
1	AA	678	VAL
1	AA	679	TRP
1	AA	681	THR
1	AA	684	ASP
1	AA	688	THR
1	AA	689	ARG
1	AA	703	GLU
1	AA	706	HIS
1	AA	709	ARG
1	AA	715	LEU
1	AA	718	THR
1	AA	719	ILE
1	AA	723	TYR
1	AA	727	THR
1	AA	732	ILE
1	AA	736	LEU
1	AA	743	ASP
1	AA	748	ASN
1	AA	750	ILE
1	AA	769	VAL
1	AA	773	ASP
1	AA	783	LYS
1	AA	789	SER
1	AA	804	GLU
1	AA	805	VAL

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Mol	Chain	Res	Type
1	AA	809	VAL
1	AA	812	VAL
1	AA	816	LEU
1	AA	821	ILE
1	AA	822	THR
1	AA	830	MET
1	AA	831	ASP
1	AA	832	ASP
1	AA	833	LEU
1	AA	836	THR
1	AA	856	GLU
1	AA	862	THR
1	AA	876	LEU
1	AA	878	ARG
1	AA	886	ASN
1	AA	889	SER
1	AA	892	LEU
1	AA	896	THR
1	AA	905	SER
1	AA	917	MET
1	AA	922	CYS
1	AA	924	SER
1	AA	945	CYS
1	AA	952	LEU
1	AA	955	ARG
1	AA	956	ARG
1	AA	959	VAL
1	AA	964	LYS
1	AA	966	LEU
1	AA	973	GLU
1	AA	983	LYS
1	AA	985	ARG
1	AA	986	PHE
1	AA	987	TYR
1	AA	999	CYS
1	AA	1003	ARG
1	AA	1004	GLU
1	AA	1013	THR
1	AA	1015	ARG
1	AA	1019	LEU
1	AA	1021	ARG
1	AA	1022	CYS

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Mol	Chain	Res	Type
1	AA	1033	SER
1	AA	1045	LEU
1	AA	1053	ASP
1	AA	1057	ILE
1	AA	1076	LEU
1	AA	1083	SER
1	AA	1085	LEU
1	AA	1087	GLU
1	AA	1096	LYS
1	AA	1102	LEU
1	AA	1104	TYR
1	AA	1111	GLU
1	AA	1117	SER
1	AA	1118	VAL
1	AA	1123	VAL
1	AA	1135	SER
1	AA	1136	VAL
1	AA	1137	SER
1	AA	1146	SER
1	AA	1158	SER
1	AA	1159	ASP
1	AA	1162	ASN
1	AA	1169	LEU
1	AA	1173	LYS
1	AA	1175	MET
1	AA	1199	GLN
1	AA	1202	LEU
1	AA	1214	ASN
1	AA	1217	LEU
1	AA	1222	LEU
1	AA	1227	MET
1	AA	1235	THR
1	AA	1239	THR
1	AA	1243	TRP
1	AA	1245	ASP
1	AA	1247	SER
1	AA	1248	ASP
1	AA	1250	GLN
1	AA	1252	ASP
1	AA	1260	LYS
1	AA	1262	LEU
1	AA	1264	SER

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Mol	Chain	Res	Type
1	AA	1271	ILE
1	AA	1273	THR
1	AA	1275	THR
1	AA	1276	THR
1	AA	1278	THR
1	AA	1279	SER
1	AA	1288	ARG
1	AA	1289	SER
1	AA	1292	ILE
1	AA	1294	MET
1	AA	1298	ASP
1	AA	1300	ASN
1	AA	1303	SER
1	AA	1304	GLU
1	AA	1310	LYS
1	AA	1314	GLN
1	AA	1318	SER
1	AA	1324	LEU
1	AA	1325	LEU
1	AA	1326	GLU
1	AA	1343	ASP
1	AA	1344	ILE
1	AA	1437	ASN
1	AA	1439	MET
1	AA	1440	ASN
1	AA	1441	LYS
1	AA	1442	VAL
1	AA	1444	ARG
1	AA	1452	SER
1	AA	1453	HIS
1	AA	1458	THR
1	AA	1459	LYS
1	AA	1465	GLU
1	AA	1466	SER
1	AA	1468	LYS
1	AA	1474	LEU
1	AA	1476	LEU
1	AA	1481	GLU
1	AA	1485	MET
1	AA	1501	ILE
1	AA	1503	HIS
1	AA	1505	ASP

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Mol	Chain	Res	Type
1	AA	1506	ARG
1	AA	1513	GLU
1	AA	1514	ASN
1	AA	1519	LEU
1	AA	1529	MET
1	AA	1542	THR
1	AA	1546	VAL
1	AA	1559	ARG
1	AA	1561	THR
1	AA	1562	ILE
1	AA	1566	ILE
1	AA	1568	ASN
1	AA	1583	ASP
1	AA	1584	LEU
1	AA	1585	ILE
1	AA	1590	THR
1	AA	1595	TYR
1	AA	1603	MET
1	AA	1607	THR
1	AA	1609	SER
1	AA	1613	MET
1	AA	1615	TYR
1	AA	1619	CYS
1	AA	1623	THR
1	AA	1628	ASP
1	AA	1629	ASN
1	AA	1632	GLU
1	AA	1633	GLN
1	AA	1635	ASP
1	AA	1638	SER
1	AA	1647	ASN
1	AA	1649	VAL
1	AA	1656	VAL
2	AB	21	ARG
2	AB	22	GLU
2	AB	26	ILE
2	AB	33	SER
2	AB	37	LEU
2	AB	39	GLN
2	AB	53	THR
2	AB	57	ASP
2	AB	65	VAL

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Mol	Chain	Res	Type
2	AB	66	LYS
2	AB	68	ILE
2	AB	73	ILE
2	AB	74	PHE
2	AB	93	ASN
2	AB	96	SER
2	AB	101	GLN
2	AB	109	SER
2	AB	110	ASN
2	AB	117	VAL
2	AB	120	LYS
2	AB	124	SER
2	AB	130	LEU
2	AB	134	ARG
2	AB	137	LEU
2	AB	150	GLU
2	AB	151	ASN
2	AB	164	MET
2	AB	170	CYS
2	AB	190	ILE
2	AB	201	LYS
2	AB	202	LEU
2	AB	203	ILE
2	AB	204	ARG
2	AB	206	LEU
2	AB	207	ILE
2	AB	212	ASN
2	AB	217	ILE
2	AB	228	SER
2	AB	231	HIS
2	AB	237	ARG
2	AB	238	SER
2	AB	244	THR
2	AB	245	SER
2	AB	247	THR
2	AB	260	PHE
2	AB	295	ASN
2	AB	306	LEU
2	AB	315	LYS
2	AB	323	ARG
2	AB	328	GLN
2	AB	343	ASP

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Mol	Chain	Res	Type
2	AB	347	LEU
2	AB	351	GLN
2	AB	357	ILE
2	AB	377	MET
2	AB	379	ARG
2	AB	381	LEU
2	AB	397	THR
2	AB	398	GLN
2	AB	403	LEU
2	AB	404	LEU
2	AB	409	TYR
2	AB	413	LEU
2	AB	417	ILE
2	AB	422	GLN
2	AB	425	ILE
2	AB	434	ARG
2	AB	452	ARG
2	AB	453	VAL
2	AB	454	ASN
2	AB	460	LYS
2	AB	463	TYR
2	AB	472	SER
2	AB	474	SER
2	AB	476	LEU
2	AB	477	ASP
2	AB	479	GLN
2	AB	497	ILE
2	AB	498	SER
2	AB	505	ARG
2	AB	507	SER
2	AB	519	LYS
2	AB	520	LEU
2	AB	521	LEU
2	AB	523	GLU
2	AB	537	SER
2	AB	541	LEU
2	AB	543	ASN
2	AB	547	HIS
2	AB	577	PHE
2	AB	583	LEU
2	AB	585	CYS
2	AB	593	ILE

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Mol	Chain	Res	Type
2	AB	604	ILE
2	AB	616	LYS
2	AB	617	THR
2	AB	622	ILE
2	AB	624	LEU
2	AB	636	GLN
2	AB	642	LEU
2	AB	653	VAL
2	AB	654	ARG
2	AB	658	LEU
2	AB	660	LYS
2	AB	661	GLU
2	AB	663	ILE
2	AB	667	PHE
2	AB	670	VAL
2	AB	674	ILE
2	AB	683	ASN
2	AB	687	THR
2	AB	698	SER
2	AB	699	ILE
2	AB	703	LEU
2	AB	711	GLN
2	AB	714	ARG
2	AB	716	MET
2	AB	724	GLN
2	AB	725	THR
2	AB	733	LEU
2	AB	737	SER
2	AB	738	ASP
2	AB	749	THR
2	AB	751	ILE
2	AB	752	VAL
2	AB	756	LEU
2	AB	762	MET
2	AB	773	VAL
2	AB	777	SER
2	AB	782	ASP
2	AB	783	MET
2	AB	785	ASP
2	AB	798	PHE
2	AB	802	THR
2	AB	806	THR

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Mol	Chain	Res	Type
2	AB	808	LYS
2	AB	809	VAL
2	AB	814	ASN
2	AB	823	GLN
2	AB	829	ASN
2	AB	830	ASP
2	AB	833	PRO
2	AB	835	GLU
2	AB	837	LEU
2	AB	838	GLU
2	AB	839	LYS
2	AB	840	LEU
2	AB	842	GLU
2	AB	843	ASP
2	AB	845	LEU
2	AB	858	ILE
2	AB	865	THR
2	AB	870	LYS
2	AB	871	ILE
2	AB	873	THR
2	AB	876	SER
2	AB	882	ILE
2	AB	883	GLU
2	AB	886	ASN
2	AB	887	LEU
2	AB	895	PHE
2	AB	896	GLN
2	AB	897	GLU
2	AB	898	LEU
2	AB	903	ILE
2	AB	904	LYS
2	AB	907	ILE
2	AB	910	THR
2	AB	919	SER
2	AB	927	CYS
2	AB	933	THR
2	AB	944	GLN
2	AB	947	ILE
2	AB	949	ILE
2	AB	958	MET
2	AB	960	ILE
2	AB	962	MET

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Mol	Chain	Res	Type
2	AB	965	GLU
2	AB	967	LEU
2	AB	977	ILE
2	AB	985	ILE
2	AB	988	GLU
2	AB	991	THR
2	AB	999	GLN
2	AB	1015	SER
2	AB	1018	THR
2	AB	1026	ILE
2	AB	1027	TYR
2	AB	1028	VAL
2	AB	1030	VAL
2	AB	1033	TYR
2	AB	1034	GLN
2	AB	1036	LEU
2	AB	1040	VAL
2	AB	1043	LYS
2	AB	1044	PHE
2	AB	1045	GLN
2	AB	1047	ARG
2	AB	1058	GLN
2	AB	1070	ARG
2	AB	1075	GLU
2	AB	1077	ASP
2	AB	1085	SER
2	AB	1091	ARG
2	AB	1092	LEU
2	AB	1102	SER
2	AB	1103	VAL
2	AB	1109	SER
2	AB	1110	ILE
2	AB	1111	LEU
2	AB	1112	THR
2	AB	1119	ARG
2	AB	1120	ILE
2	AB	1127	CYS
2	AB	1136	GLU
2	AB	1140	LYS
2	AB	1142	LEU
2	AB	1150	LYS
2	AB	1151	ILE

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Mol	Chain	Res	Type
2	AB	1153	ILE
2	AB	1156	SER
2	AB	1157	GLN
2	AB	1163	GLN
2	AB	1168	VAL
2	AB	1173	THR
2	AB	1174	THR
2	AB	1181	VAL
2	AB	1185	LEU
2	AB	1189	LEU
2	AB	1190	SER
2	AB	1198	TYR
2	AB	1201	GLU
3	AC	32	ASN
3	AC	45	SER
3	AC	48	ASP
3	AC	51	GLU
3	AC	57	ILE
3	AC	59	ILE
3	AC	61	THR
3	AC	68	ARG
3	AC	69	ARG
3	AC	71	MET
3	AC	78	VAL
3	AC	82	TYR
3	AC	86	PHE
3	AC	97	LEU
3	AC	101	ILE
3	AC	122	ASP
3	AC	128	ASP
3	AC	129	GLU
3	AC	131	THR
3	AC	132	ILE
3	AC	136	LEU
3	AC	139	LYS
3	AC	151	THR
3	AC	168	LYS
3	AC	177	THR
3	AC	193	LEU
3	AC	196	LEU
3	AC	202	ILE
3	AC	204	LEU

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Mol	Chain	Res	Type
3	AC	208	CYS
3	AC	209	ILE
3	AC	210	LEU
3	AC	222	VAL
3	AC	224	THR
3	AC	226	SER
3	AC	228	ARG
3	AC	235	ILE
3	AC	237	GLN
3	AC	262	SER
3	AC	263	ASP
3	AC	264	GLU
3	AC	274	THR
3	AC	277	ARG
3	AC	279	VAL
3	AC	287	ASP
3	AC	289	VAL
3	AC	291	LEU
3	AC	303	GLU
3	AC	315	PHE
3	AC	324	LYS
3	AC	334	THR
4	AD	12	THR
4	AD	14	THR
4	AD	20	VAL
4	AD	82	LEU
4	AD	87	SER
4	AD	88	GLN
4	AD	94	ARG
4	AD	99	LEU
5	AE	4	GLU
5	AE	6	GLU
5	AE	8	ASN
5	AE	10	SER
5	AE	34	GLU
5	AE	41	ASP
5	AE	57	MET
5	AE	60	PHE
5	AE	61	GLN
5	AE	63	ASN
5	AE	66	GLU
5	AE	70	SER

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Mol	Chain	Res	Type
5	AE	71	LYS
5	AE	78	LEU
5	AE	81	GLU
5	AE	90	VAL
5	AE	92	THR
5	AE	93	MET
5	AE	106	GLN
5	AE	107	THR
5	AE	123	LEU
5	AE	126	SER
5	AE	127	ILE
5	AE	131	THR
5	AE	141	VAL
5	AE	144	ILE
5	AE	148	GLU
5	AE	150	VAL
5	AE	153	HIS
5	AE	166	LYS
5	AE	175	LEU
5	AE	177	ARG
5	AE	178	ILE
5	AE	186	LEU
5	AE	192	ARG
5	AE	196	VAL
5	AE	202	SER
5	AE	207	ARG
5	AE	213	ILE
6	AF	77	ASP
6	AF	78	GLN
6	AF	82	THR
6	AF	93	ILE
6	AF	96	THR
6	AF	99	LEU
6	AF	109	VAL
6	AF	110	ASP
6	AF	118	LEU
6	AF	148	VAL
6	AF	149	GLU
6	AF	151	LEU
6	AF	154	ASP
7	AG	10	ASN
7	AG	11	ARG

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Mol	Chain	Res	Type
7	AG	15	ARG
7	AG	16	PHE
7	AG	19	LYS
7	AG	20	HIS
7	AG	21	LYS
7	AG	24	VAL
7	AG	29	ASP
7	AG	35	SER
7	AG	37	CYS
7	AG	38	ILE
7	AG	39	VAL
7	AG	45	LEU
7	AG	54	LEU
7	AG	64	GLN
7	AG	76	LYS
7	AG	77	VAL
7	AG	95	LEU
7	AG	97	LYS
7	AG	105	ILE
7	AG	106	LYS
7	AG	116	THR
7	AG	120	VAL
7	AG	122	LEU
7	AG	126	GLN
7	AG	128	GLN
7	AG	139	ILE
7	AG	141	SER
7	AG	144	HIS
7	AG	147	LEU
7	AG	149	ILE
7	AG	164	VAL
7	AG	165	ASP
7	AG	169	VAL
7	AG	170	HIS
7	AG	172	ASP
7	AG	173	VAL
7	AG	174	GLU
7	AG	219	ASP
7	AG	221	ASN
7	AG	226	ASP
7	AG	232	THR
7	AG	239	THR

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Mol	Chain	Res	Type
7	AG	243	VAL
7	AG	248	THR
7	AG	249	LEU
7	AG	250	ILE
7	AG	251	SER
8	AH	5	LEU
8	AH	7	ASP
8	AH	8	ASP
8	AH	9	ILE
8	AH	13	SER
8	AH	25	ARG
8	AH	30	SER
8	AH	34	ASP
8	AH	35	GLN
8	AH	42	ILE
8	AH	53	ASP
8	AH	54	SER
8	AH	55	LEU
8	AH	59	ILE
8	AH	63	LEU
8	AH	80	ARG
8	AH	83	GLN
8	AH	87	ARG
8	AH	94	ASP
8	AH	108	SER
8	AH	112	ILE
8	AH	114	VAL
8	AH	121	LEU
8	AH	122	LEU
8	AH	123	MET
8	AH	124	ARG
8	AH	133	ASN
8	AH	138	GLU
8	AH	143	LEU
8	AH	145	ARG
9	AI	3	VAL
9	AI	8	ILE
9	AI	11	LEU
9	AI	15	ASP
9	AI	31	SER
9	AI	32	GLN
9	AI	33	CYS

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Mol	Chain	Res	Type
9	AI	42	PHE
9	AI	45	LEU
9	AI	47	VAL
9	AI	49	THR
9	AI	53	ASP
9	AI	68	LYS
9	AI	72	LYS
9	AI	73	LYS
9	AI	88	GLN
9	AI	94	MET
9	AI	100	GLN
9	AI	102	ARG
9	AI	106	GLU
9	AI	110	VAL
9	AI	111	PHE
9	AI	120	LYS
9	AI	122	ARG
9	AI	123	THR
10	AJ	1	MET
10	AJ	7	CYS
10	AJ	12	LYS
10	AJ	13	VAL
10	AJ	14	VAL
10	AJ	17	LYS
10	AJ	20	SER
10	AJ	23	ASN
10	AJ	27	GLU
10	AJ	34	THR
10	AJ	38	ARG
10	AJ	44	TYR
10	AJ	48	ARG
10	AJ	66	LEU
10	AJ	67	GLU
10	AJ	68	LYS
11	AK	45	GLU
11	AK	51	THR
11	AK	56	GLU
11	AK	59	THR
11	AK	62	SER
11	AK	63	PHE
11	AK	65	ILE
11	AK	68	GLU

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Mol	Chain	Res	Type
11	AK	72	LEU
11	AK	77	ARG
11	AK	89	CYS
11	AK	93	ILE
11	AK	99	ASN
11	AK	103	ILE
11	AK	107	THR
11	AK	110	GLU
11	AK	111	THR
11	AK	112	THR
11	AK	117	LEU
11	AK	123	ASP
11	AK	125	MET
11	AK	128	CYS
11	AK	134	LYS
11	AK	139	ILE
11	AK	142	MET
12	AL	27	LEU
12	AL	35	SER
12	AL	36	SER
12	AL	38	LEU
12	AL	49	LYS
12	AL	53	HIS
12	AL	55	ILE
12	AL	57	LEU
12	AL	58	LYS
12	AL	65	VAL
12	AL	66	GLN
12	AL	68	GLU
13	AM	7	VAL
13	AM	9	GLU
13	AM	10	ILE
13	AM	12	ILE
13	AM	17	ASP
13	AM	18	GLN
13	AM	25	SER
13	AM	28	LYS
13	AM	36	THR
13	AM	42	LYS
13	AM	44	LYS
13	AM	48	LYS
13	AM	54	HIS

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Mol	Chain	Res	Type
13	AM	56	GLU
13	AM	57	ASN
13	AM	58	GLU
13	AM	65	TYR
13	AM	70	SER
13	AM	78	VAL
13	AM	88	ILE
13	AM	92	LYS
13	AM	95	VAL
13	AM	98	SER
13	AM	100	VAL
13	AM	104	SER
13	AM	109	ARG
14	AN	25	ILE
14	AN	37	ASN
14	AN	50	GLN
14	AN	56	ILE
14	AN	58	PHE
14	AN	64	ILE
14	AN	70	LEU
14	AN	75	GLU
14	AN	78	THR
14	AN	79	THR
14	AN	80	MET
14	AN	81	THR
14	AN	85	HIS
14	AN	90	MET
14	AN	92	ASP
14	AN	98	SER
14	AN	106	ASN
14	AN	107	MET
14	AN	108	THR
14	AN	118	SER
14	AN	123	SER
14	AN	124	THR
14	AN	126	LYS
14	AN	127	ASP
14	AN	134	ASP
14	AN	138	SER
14	AN	139	VAL
14	AN	141	GLU
14	AN	148	ILE

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Mol	Chain	Res	Type
14	AN	151	SER
14	AN	152	LYS
14	AN	157	ARG
14	AN	163	VAL
14	AN	171	PHE
14	AN	179	ASP
14	AN	180	PHE
7	AO	265	SER
7	AO	266	GLN
7	AO	272	ILE
7	AO	275	ASN
7	AO	276	LYS
7	AO	278	ILE
7	AO	279	VAL
7	AO	280	PHE
7	AO	282	ASP
7	AO	283	GLU
7	AO	285	SER
7	AO	290	GLU
7	AO	294	GLU
7	AO	296	ASP
7	AO	297	LEU
7	AO	300	VAL
7	AO	303	ASP
7	AO	304	ASN
7	AO	306	SER
7	AO	308	ILE
7	AO	316	GLU
1	BA	3	ILE
1	BA	9	SER
1	BA	12	THR
1	BA	16	PHE
1	BA	18	ILE
1	BA	20	THR
1	BA	31	GLN
1	BA	40	ASN
1	BA	41	LEU
1	BA	62	CYS
1	BA	83	VAL
1	BA	86	TYR
1	BA	89	LEU
1	BA	107	HIS

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Mol	Chain	Res	Type
1	BA	109	ARG
1	BA	112	SER
1	BA	136	LEU
1	BA	176	THR
1	BA	177	LEU
1	BA	179	ASN
1	BA	180	GLU
1	BA	186	SER
1	BA	198	SER
1	BA	199	ASP
1	BA	202	THR
1	BA	203	THR
1	BA	204	GLU
1	BA	205	ARG
1	BA	208	PHE
1	BA	312	SER
1	BA	315	ILE
1	BA	325	ASP
1	BA	326	THR
1	BA	330	LYS
1	BA	333	CYS
1	BA	345	LEU
1	BA	346	SER
1	BA	347	ARG
1	BA	349	LEU
1	BA	365	THR
1	BA	366	ARG
1	BA	371	SER
1	BA	372	LYS
1	BA	373	LEU
1	BA	375	GLU
1	BA	381	SER
1	BA	397	ARG
1	BA	398	ASP
1	BA	403	LEU
1	BA	406	LEU
1	BA	407	GLN
1	BA	409	ASP
1	BA	417	ARG
1	BA	423	LEU
1	BA	429	THR
1	BA	444	GLN

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Mol	Chain	Res	Type
1	BA	450	LYS
1	BA	453	ILE
1	BA	464	GLU
1	BA	466	LEU
1	BA	475	ARG
1	BA	481	ARG
1	BA	483	VAL
1	BA	484	ILE
1	BA	485	SER
1	BA	504	LYS
1	BA	506	THR
1	BA	512	THR
1	BA	529	LYS
1	BA	534	THR
1	BA	545	SER
1	BA	549	MET
1	BA	553	GLN
1	BA	559	ASN
1	BA	562	LEU
1	BA	565	SER
1	BA	566	SER
1	BA	568	VAL
1	BA	574	ASN
1	BA	575	LYS
1	BA	576	LYS
1	BA	577	VAL
1	BA	581	ILE
1	BA	582	LYS
1	BA	583	ASN
1	BA	590	ASN
1	BA	594	THR
1	BA	595	LEU
1	BA	596	HIS
1	BA	599	SER
1	BA	613	THR
1	BA	621	THR
1	BA	627	ASP
1	BA	637	PHE
1	BA	648	LEU
1	BA	653	THR
1	BA	659	THR
1	BA	666	VAL

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Mol	Chain	Res	Type
1	BA	670	ILE
1	BA	675	SER
1	BA	678	VAL
1	BA	679	TRP
1	BA	684	ASP
1	BA	688	THR
1	BA	689	ARG
1	BA	703	GLU
1	BA	706	HIS
1	BA	709	ARG
1	BA	715	LEU
1	BA	718	THR
1	BA	719	ILE
1	BA	723	TYR
1	BA	727	THR
1	BA	732	ILE
1	BA	736	LEU
1	BA	743	ASP
1	BA	744	MET
1	BA	748	ASN
1	BA	750	ILE
1	BA	769	VAL
1	BA	773	ASP
1	BA	783	LYS
1	BA	789	SER
1	BA	804	GLU
1	BA	805	VAL
1	BA	809	VAL
1	BA	816	LEU
1	BA	821	ILE
1	BA	822	THR
1	BA	830	MET
1	BA	831	ASP
1	BA	832	ASP
1	BA	833	LEU
1	BA	836	THR
1	BA	856	GLU
1	BA	862	THR
1	BA	876	LEU
1	BA	878	ARG
1	BA	886	ASN
1	BA	889	SER

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Mol	Chain	Res	Type
1	BA	892	LEU
1	BA	896	THR
1	BA	905	SER
1	BA	909	SER
1	BA	917	MET
1	BA	922	CYS
1	BA	924	SER
1	BA	945	CYS
1	BA	952	LEU
1	BA	955	ARG
1	BA	956	ARG
1	BA	959	VAL
1	BA	966	LEU
1	BA	973	GLU
1	BA	983	LYS
1	BA	985	ARG
1	BA	987	TYR
1	BA	998	HIS
1	BA	1003	ARG
1	BA	1004	GLU
1	BA	1013	THR
1	BA	1015	ARG
1	BA	1019	LEU
1	BA	1021	ARG
1	BA	1033	SER
1	BA	1045	LEU
1	BA	1053	ASP
1	BA	1057	ILE
1	BA	1076	LEU
1	BA	1083	SER
1	BA	1085	LEU
1	BA	1087	GLU
1	BA	1096	LYS
1	BA	1102	LEU
1	BA	1104	TYR
1	BA	1111	GLU
1	BA	1117	SER
1	BA	1118	VAL
1	BA	1123	VAL
1	BA	1135	SER
1	BA	1136	VAL
1	BA	1137	SER

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Mol	Chain	Res	Type
1	BA	1146	SER
1	BA	1158	SER
1	BA	1159	ASP
1	BA	1162	ASN
1	BA	1169	LEU
1	BA	1173	LYS
1	BA	1175	MET
1	BA	1192	SER
1	BA	1199	GLN
1	BA	1202	LEU
1	BA	1214	ASN
1	BA	1217	LEU
1	BA	1222	LEU
1	BA	1227	MET
1	BA	1235	THR
1	BA	1239	THR
1	BA	1243	TRP
1	BA	1245	ASP
1	BA	1247	SER
1	BA	1248	ASP
1	BA	1250	GLN
1	BA	1260	LYS
1	BA	1262	LEU
1	BA	1264	SER
1	BA	1268	ASP
1	BA	1271	ILE
1	BA	1273	THR
1	BA	1275	THR
1	BA	1288	ARG
1	BA	1289	SER
1	BA	1292	ILE
1	BA	1294	MET
1	BA	1298	ASP
1	BA	1300	ASN
1	BA	1303	SER
1	BA	1304	GLU
1	BA	1310	LYS
1	BA	1314	GLN
1	BA	1318	SER
1	BA	1324	LEU
1	BA	1325	LEU
1	BA	1326	GLU

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Mol	Chain	Res	Type
1	BA	1343	ASP
1	BA	1344	ILE
1	BA	1437	ASN
1	BA	1439	MET
1	BA	1440	ASN
1	BA	1441	LYS
1	BA	1442	VAL
1	BA	1444	ARG
1	BA	1452	SER
1	BA	1453	HIS
1	BA	1458	THR
1	BA	1459	LYS
1	BA	1465	GLU
1	BA	1468	LYS
1	BA	1474	LEU
1	BA	1476	LEU
1	BA	1481	GLU
1	BA	1485	MET
1	BA	1501	ILE
1	BA	1503	HIS
1	BA	1505	ASP
1	BA	1506	ARG
1	BA	1513	GLU
1	BA	1514	ASN
1	BA	1518	VAL
1	BA	1519	LEU
1	BA	1529	MET
1	BA	1542	THR
1	BA	1546	VAL
1	BA	1559	ARG
1	BA	1561	THR
1	BA	1566	ILE
1	BA	1568	ASN
1	BA	1583	ASP
1	BA	1584	LEU
1	BA	1585	ILE
1	BA	1590	THR
1	BA	1595	TYR
1	BA	1603	MET
1	BA	1607	THR
1	BA	1609	SER
1	BA	1613	MET

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Mol	Chain	Res	Type
1	BA	1615	TYR
1	BA	1619	CYS
1	BA	1623	THR
1	BA	1628	ASP
1	BA	1629	ASN
1	BA	1632	GLU
1	BA	1633	GLN
1	BA	1635	ASP
1	BA	1638	SER
1	BA	1647	ASN
1	BA	1649	VAL
1	BA	1656	VAL
2	BB	21	ARG
2	BB	22	GLU
2	BB	26	ILE
2	BB	33	SER
2	BB	39	GLN
2	BB	53	THR
2	BB	57	ASP
2	BB	65	VAL
2	BB	68	ILE
2	BB	73	ILE
2	BB	74	PHE
2	BB	90	TYR
2	BB	91	LEU
2	BB	93	ASN
2	BB	96	SER
2	BB	101	GLN
2	BB	103	SER
2	BB	109	SER
2	BB	110	ASN
2	BB	117	VAL
2	BB	120	LYS
2	BB	124	SER
2	BB	130	LEU
2	BB	134	ARG
2	BB	137	LEU
2	BB	150	GLU
2	BB	151	ASN
2	BB	164	MET
2	BB	170	CYS
2	BB	190	ILE

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Mol	Chain	Res	Type
2	BB	201	LYS
2	BB	202	LEU
2	BB	203	ILE
2	BB	204	ARG
2	BB	206	LEU
2	BB	207	ILE
2	BB	212	ASN
2	BB	217	ILE
2	BB	228	SER
2	BB	231	HIS
2	BB	237	ARG
2	BB	238	SER
2	BB	244	THR
2	BB	245	SER
2	BB	247	THR
2	BB	260	PHE
2	BB	295	ASN
2	BB	306	LEU
2	BB	315	LYS
2	BB	323	ARG
2	BB	328	GLN
2	BB	343	ASP
2	BB	347	LEU
2	BB	351	GLN
2	BB	357	ILE
2	BB	377	MET
2	BB	379	ARG
2	BB	381	LEU
2	BB	397	THR
2	BB	398	GLN
2	BB	403	LEU
2	BB	404	LEU
2	BB	409	TYR
2	BB	413	LEU
2	BB	422	GLN
2	BB	425	ILE
2	BB	434	ARG
2	BB	452	ARG
2	BB	454	ASN
2	BB	460	LYS
2	BB	463	TYR
2	BB	472	SER

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Mol	Chain	Res	Type
2	BB	474	SER
2	BB	476	LEU
2	BB	477	ASP
2	BB	479	GLN
2	BB	497	ILE
2	BB	498	SER
2	BB	505	ARG
2	BB	507	SER
2	BB	519	LYS
2	BB	520	LEU
2	BB	521	LEU
2	BB	523	GLU
2	BB	537	SER
2	BB	541	LEU
2	BB	543	ASN
2	BB	547	HIS
2	BB	577	PHE
2	BB	583	LEU
2	BB	585	CYS
2	BB	593	ILE
2	BB	604	ILE
2	BB	616	LYS
2	BB	617	THR
2	BB	622	ILE
2	BB	624	LEU
2	BB	636	GLN
2	BB	642	LEU
2	BB	653	VAL
2	BB	654	ARG
2	BB	658	LEU
2	BB	660	LYS
2	BB	661	GLU
2	BB	663	ILE
2	BB	667	PHE
2	BB	670	VAL
2	BB	674	ILE
2	BB	683	ASN
2	BB	687	THR
2	BB	698	SER
2	BB	699	ILE
2	BB	703	LEU
2	BB	711	GLN

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Mol	Chain	Res	Type
2	BB	714	ARG
2	BB	716	MET
2	BB	724	GLN
2	BB	725	THR
2	BB	733	LEU
2	BB	737	SER
2	BB	738	ASP
2	BB	751	ILE
2	BB	752	VAL
2	BB	756	LEU
2	BB	762	MET
2	BB	773	VAL
2	BB	777	SER
2	BB	779	THR
2	BB	782	ASP
2	BB	783	MET
2	BB	785	ASP
2	BB	798	PHE
2	BB	802	THR
2	BB	808	LYS
2	BB	809	VAL
2	BB	814	ASN
2	BB	823	GLN
2	BB	829	ASN
2	BB	830	ASP
2	BB	833	PRO
2	BB	835	GLU
2	BB	837	LEU
2	BB	838	GLU
2	BB	839	LYS
2	BB	840	LEU
2	BB	842	GLU
2	BB	843	ASP
2	BB	845	LEU
2	BB	858	ILE
2	BB	865	THR
2	BB	870	LYS
2	BB	871	ILE
2	BB	873	THR
2	BB	876	SER
2	BB	882	ILE
2	BB	886	ASN

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Mol	Chain	Res	Type
2	BB	887	LEU
2	BB	895	PHE
2	BB	896	GLN
2	BB	897	GLU
2	BB	898	LEU
2	BB	903	ILE
2	BB	904	LYS
2	BB	907	ILE
2	BB	910	THR
2	BB	919	SER
2	BB	927	CYS
2	BB	933	THR
2	BB	944	GLN
2	BB	949	ILE
2	BB	958	MET
2	BB	960	ILE
2	BB	962	MET
2	BB	965	GLU
2	BB	967	LEU
2	BB	977	ILE
2	BB	985	ILE
2	BB	988	GLU
2	BB	991	THR
2	BB	999	GLN
2	BB	1015	SER
2	BB	1018	THR
2	BB	1026	ILE
2	BB	1027	TYR
2	BB	1028	VAL
2	BB	1030	VAL
2	BB	1033	TYR
2	BB	1034	GLN
2	BB	1036	LEU
2	BB	1040	VAL
2	BB	1043	LYS
2	BB	1044	PHE
2	BB	1045	GLN
2	BB	1047	ARG
2	BB	1058	GLN
2	BB	1070	ARG
2	BB	1075	GLU
2	BB	1077	ASP

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Mol	Chain	Res	Type
2	BB	1085	SER
2	BB	1091	ARG
2	BB	1092	LEU
2	BB	1094	ASN
2	BB	1102	SER
2	BB	1103	VAL
2	BB	1109	SER
2	BB	1110	ILE
2	BB	1111	LEU
2	BB	1112	THR
2	BB	1119	ARG
2	BB	1120	ILE
2	BB	1127	CYS
2	BB	1136	GLU
2	BB	1140	LYS
2	BB	1142	LEU
2	BB	1153	ILE
2	BB	1156	SER
2	BB	1157	GLN
2	BB	1163	GLN
2	BB	1168	VAL
2	BB	1173	THR
2	BB	1174	THR
2	BB	1181	VAL
2	BB	1185	LEU
2	BB	1189	LEU
2	BB	1190	SER
2	BB	1198	TYR
2	BB	1201	GLU
3	BC	32	ASN
3	BC	45	SER
3	BC	48	ASP
3	BC	51	GLU
3	BC	57	ILE
3	BC	59	ILE
3	BC	61	THR
3	BC	68	ARG
3	BC	69	ARG
3	BC	71	MET
3	BC	78	VAL
3	BC	82	TYR
3	BC	86	PHE

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Mol	Chain	Res	Type
3	BC	97	LEU
3	BC	101	ILE
3	BC	122	ASP
3	BC	128	ASP
3	BC	129	GLU
3	BC	131	THR
3	BC	132	ILE
3	BC	136	LEU
3	BC	139	LYS
3	BC	151	THR
3	BC	168	LYS
3	BC	177	THR
3	BC	188	ASP
3	BC	193	LEU
3	BC	196	LEU
3	BC	204	LEU
3	BC	208	CYS
3	BC	209	ILE
3	BC	210	LEU
3	BC	222	VAL
3	BC	224	THR
3	BC	226	SER
3	BC	228	ARG
3	BC	235	ILE
3	BC	237	GLN
3	BC	262	SER
3	BC	263	ASP
3	BC	264	GLU
3	BC	274	THR
3	BC	277	ARG
3	BC	279	VAL
3	BC	287	ASP
3	BC	289	VAL
3	BC	291	LEU
3	BC	303	GLU
3	BC	315	PHE
3	BC	324	LYS
3	BC	334	THR
4	BD	12	THR
4	BD	14	THR
4	BD	20	VAL
4	BD	48	GLU

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Mol	Chain	Res	Type
4	BD	82	LEU
4	BD	87	SER
4	BD	88	GLN
4	BD	94	ARG
4	BD	99	LEU
5	BE	4	GLU
5	BE	6	GLU
5	BE	8	ASN
5	BE	10	SER
5	BE	41	ASP
5	BE	57	MET
5	BE	60	PHE
5	BE	61	GLN
5	BE	63	ASN
5	BE	66	GLU
5	BE	70	SER
5	BE	71	LYS
5	BE	78	LEU
5	BE	81	GLU
5	BE	90	VAL
5	BE	92	THR
5	BE	93	MET
5	BE	106	GLN
5	BE	107	THR
5	BE	123	LEU
5	BE	126	SER
5	BE	127	ILE
5	BE	131	THR
5	BE	141	VAL
5	BE	144	ILE
5	BE	148	GLU
5	BE	150	VAL
5	BE	153	HIS
5	BE	166	LYS
5	BE	175	LEU
5	BE	177	ARG
5	BE	178	ILE
5	BE	186	LEU
5	BE	192	ARG
5	BE	196	VAL
5	BE	202	SER
5	BE	207	ARG

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Mol	Chain	Res	Type
5	BE	213	ILE
6	BF	77	ASP
6	BF	78	GLN
6	BF	82	THR
6	BF	93	ILE
6	BF	96	THR
6	BF	99	LEU
6	BF	109	VAL
6	BF	110	ASP
6	BF	118	LEU
6	BF	148	VAL
6	BF	149	GLU
6	BF	151	LEU
6	BF	154	ASP
7	BG	15	ARG
7	BG	16	PHE
7	BG	20	HIS
7	BG	21	LYS
7	BG	29	ASP
7	BG	34	THR
7	BG	35	SER
7	BG	37	CYS
7	BG	38	ILE
7	BG	39	VAL
7	BG	45	LEU
7	BG	54	LEU
7	BG	64	GLN
7	BG	76	LYS
7	BG	77	VAL
7	BG	80	VAL
7	BG	95	LEU
7	BG	97	LYS
7	BG	105	ILE
7	BG	106	LYS
7	BG	116	THR
7	BG	120	VAL
7	BG	122	LEU
7	BG	126	GLN
7	BG	128	GLN
7	BG	132	VAL
7	BG	139	ILE
7	BG	141	SER

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Mol	Chain	Res	Type
7	BG	144	HIS
7	BG	147	LEU
7	BG	149	ILE
7	BG	164	VAL
7	BG	165	ASP
7	BG	169	VAL
7	BG	170	HIS
7	BG	219	ASP
7	BG	221	ASN
7	BG	226	ASP
7	BG	232	THR
7	BG	239	THR
7	BG	243	VAL
7	BG	248	THR
7	BG	249	LEU
7	BG	250	ILE
7	BG	251	SER
8	BH	5	LEU
8	BH	7	ASP
8	BH	8	ASP
8	BH	9	ILE
8	BH	25	ARG
8	BH	30	SER
8	BH	34	ASP
8	BH	35	GLN
8	BH	42	ILE
8	BH	53	ASP
8	BH	54	SER
8	BH	55	LEU
8	BH	59	ILE
8	BH	63	LEU
8	BH	80	ARG
8	BH	83	GLN
8	BH	87	ARG
8	BH	94	ASP
8	BH	108	SER
8	BH	112	ILE
8	BH	114	VAL
8	BH	121	LEU
8	BH	122	LEU
8	BH	123	MET
8	BH	124	ARG

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Mol	Chain	Res	Type
8	BH	133	ASN
8	BH	138	GLU
8	BH	143	LEU
9	BI	3	VAL
9	BI	8	ILE
9	BI	11	LEU
9	BI	15	ASP
9	BI	26	SER
9	BI	31	SER
9	BI	32	GLN
9	BI	42	PHE
9	BI	45	LEU
9	BI	47	VAL
9	BI	49	THR
9	BI	53	ASP
9	BI	66	VAL
9	BI	68	LYS
9	BI	73	LYS
9	BI	88	GLN
9	BI	89	CYS
9	BI	93	GLU
9	BI	94	MET
10	BJ	1	MET
10	BJ	7	CYS
10	BJ	12	LYS
10	BJ	13	VAL
10	BJ	14	VAL
10	BJ	20	SER
10	BJ	23	ASN
10	BJ	27	GLU
10	BJ	34	THR
10	BJ	38	ARG
10	BJ	44	TYR
10	BJ	48	ARG
10	BJ	66	LEU
10	BJ	67	GLU
10	BJ	68	LYS
11	BK	45	GLU
11	BK	51	THR
11	BK	56	GLU
11	BK	59	THR
11	BK	62	SER

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Mol	Chain	Res	Type
11	BK	63	PHE
11	BK	65	ILE
11	BK	68	GLU
11	BK	72	LEU
11	BK	77	ARG
11	BK	89	CYS
11	BK	93	ILE
11	BK	99	ASN
11	BK	103	ILE
11	BK	107	THR
11	BK	110	GLU
11	BK	111	THR
11	BK	112	THR
11	BK	117	LEU
11	BK	125	MET
11	BK	128	CYS
11	BK	134	LYS
11	BK	139	ILE
11	BK	142	MET
12	BL	27	LEU
12	BL	35	SER
12	BL	36	SER
12	BL	38	LEU
12	BL	49	LYS
12	BL	53	HIS
12	BL	55	ILE
12	BL	57	LEU
12	BL	58	LYS
12	BL	65	VAL
12	BL	66	GLN
12	BL	68	GLU
13	BM	7	VAL
13	BM	9	GLU
13	BM	12	ILE
13	BM	17	ASP
13	BM	18	GLN
13	BM	25	SER
13	BM	28	LYS
13	BM	36	THR
13	BM	42	LYS
13	BM	44	LYS
13	BM	48	LYS

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Mol	Chain	Res	Type
13	BM	54	HIS
13	BM	56	GLU
13	BM	57	ASN
13	BM	58	GLU
13	BM	65	TYR
13	BM	68	SER
13	BM	70	SER
13	BM	78	VAL
13	BM	92	LYS
13	BM	95	VAL
13	BM	98	SER
13	BM	100	VAL
13	BM	104	SER
13	BM	109	ARG
14	BN	25	ILE
14	BN	37	ASN
14	BN	50	GLN
14	BN	56	ILE
14	BN	58	PHE
14	BN	64	ILE
14	BN	70	LEU
14	BN	75	GLU
14	BN	78	THR
14	BN	79	THR
14	BN	80	MET
14	BN	81	THR
14	BN	85	HIS
14	BN	90	MET
14	BN	92	ASP
14	BN	98	SER
14	BN	106	ASN
14	BN	107	MET
14	BN	108	THR
14	BN	118	SER
14	BN	123	SER
14	BN	124	THR
14	BN	126	LYS
14	BN	127	ASP
14	BN	134	ASP
14	BN	138	SER
14	BN	139	VAL
14	BN	141	GLU

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Mol	Chain	Res	Type
14	BN	148	ILE
14	BN	151	SER
14	BN	152	LYS
14	BN	157	ARG
14	BN	162	LYS
14	BN	163	VAL
14	BN	171	PHE
7	BO	268	GLU
7	BO	272	ILE
7	BO	274	SER
7	BO	275	ASN
7	BO	280	PHE
7	BO	289	LYS
7	BO	294	GLU
7	BO	295	LEU
7	BO	296	ASP
7	BO	297	LEU
7	BO	301	LYS
7	BO	302	GLU
7	BO	306	SER
7	BO	307	GLU
7	BO	311	GLU
7	BO	314	THR
1	CA	3	ILE
1	CA	9	SER
1	CA	12	THR
1	CA	16	PHE
1	CA	18	ILE
1	CA	20	THR
1	CA	31	GLN
1	CA	40	ASN
1	CA	41	LEU
1	CA	59	ARG
1	CA	62	CYS
1	CA	83	VAL
1	CA	86	TYR
1	CA	89	LEU
1	CA	107	HIS
1	CA	109	ARG
1	CA	112	SER
1	CA	136	LEU
1	CA	176	THR

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Mol	Chain	Res	Type
1	CA	177	LEU
1	CA	179	ASN
1	CA	180	GLU
1	CA	183	SER
1	CA	186	SER
1	CA	198	SER
1	CA	199	ASP
1	CA	202	THR
1	CA	203	THR
1	CA	204	GLU
1	CA	205	ARG
1	CA	208	PHE
1	CA	265	ARG
1	CA	267	LYS
1	CA	312	SER
1	CA	315	ILE
1	CA	325	ASP
1	CA	326	THR
1	CA	330	LYS
1	CA	333	CYS
1	CA	345	LEU
1	CA	346	SER
1	CA	347	ARG
1	CA	349	LEU
1	CA	357	MET
1	CA	365	THR
1	CA	366	ARG
1	CA	371	SER
1	CA	372	LYS
1	CA	373	LEU
1	CA	375	GLU
1	CA	381	SER
1	CA	397	ARG
1	CA	398	ASP
1	CA	403	LEU
1	CA	406	LEU
1	CA	407	GLN
1	CA	409	ASP
1	CA	417	ARG
1	CA	423	LEU
1	CA	429	THR
1	CA	444	GLN

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Mol	Chain	Res	Type
1	CA	453	ILE
1	CA	464	GLU
1	CA	466	LEU
1	CA	475	ARG
1	CA	481	ARG
1	CA	483	VAL
1	CA	484	ILE
1	CA	485	SER
1	CA	504	LYS
1	CA	505	LEU
1	CA	506	THR
1	CA	509	GLU
1	CA	512	THR
1	CA	529	LYS
1	CA	534	THR
1	CA	545	SER
1	CA	549	MET
1	CA	553	GLN
1	CA	559	ASN
1	CA	562	LEU
1	CA	565	SER
1	CA	566	SER
1	CA	568	VAL
1	CA	574	ASN
1	CA	575	LYS
1	CA	576	LYS
1	CA	577	VAL
1	CA	581	ILE
1	CA	582	LYS
1	CA	583	ASN
1	CA	590	ASN
1	CA	594	THR
1	CA	595	LEU
1	CA	596	HIS
1	CA	599	SER
1	CA	613	THR
1	CA	621	THR
1	CA	627	ASP
1	CA	637	PHE
1	CA	648	LEU
1	CA	653	THR
1	CA	659	THR

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Mol	Chain	Res	Type
1	CA	666	VAL
1	CA	670	ILE
1	CA	675	SER
1	CA	678	VAL
1	CA	679	TRP
1	CA	684	ASP
1	CA	688	THR
1	CA	689	ARG
1	CA	703	GLU
1	CA	706	HIS
1	CA	709	ARG
1	CA	714	THR
1	CA	715	LEU
1	CA	718	THR
1	CA	719	ILE
1	CA	723	TYR
1	CA	727	THR
1	CA	732	ILE
1	CA	736	LEU
1	CA	743	ASP
1	CA	748	ASN
1	CA	750	ILE
1	CA	769	VAL
1	CA	772	LYS
1	CA	773	ASP
1	CA	783	LYS
1	CA	789	SER
1	CA	804	GLU
1	CA	805	VAL
1	CA	809	VAL
1	CA	816	LEU
1	CA	821	ILE
1	CA	822	THR
1	CA	830	MET
1	CA	831	ASP
1	CA	832	ASP
1	CA	833	LEU
1	CA	836	THR
1	CA	856	GLU
1	CA	862	THR
1	CA	876	LEU
1	CA	878	ARG

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Mol	Chain	Res	Type
1	CA	886	ASN
1	CA	889	SER
1	CA	892	LEU
1	CA	896	THR
1	CA	905	SER
1	CA	917	MET
1	CA	922	CYS
1	CA	924	SER
1	CA	945	CYS
1	CA	952	LEU
1	CA	955	ARG
1	CA	956	ARG
1	CA	959	VAL
1	CA	964	LYS
1	CA	966	LEU
1	CA	973	GLU
1	CA	983	LYS
1	CA	985	ARG
1	CA	987	TYR
1	CA	998	HIS
1	CA	1003	ARG
1	CA	1004	GLU
1	CA	1013	THR
1	CA	1015	ARG
1	CA	1019	LEU
1	CA	1021	ARG
1	CA	1023	LEU
1	CA	1033	SER
1	CA	1045	LEU
1	CA	1053	ASP
1	CA	1057	ILE
1	CA	1076	LEU
1	CA	1083	SER
1	CA	1085	LEU
1	CA	1086	ILE
1	CA	1087	GLU
1	CA	1096	LYS
1	CA	1102	LEU
1	CA	1104	TYR
1	CA	1111	GLU
1	CA	1117	SER
1	CA	1118	VAL

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Mol	Chain	Res	Type
1	CA	1123	VAL
1	CA	1135	SER
1	CA	1136	VAL
1	CA	1137	SER
1	CA	1146	SER
1	CA	1158	SER
1	CA	1159	ASP
1	CA	1162	ASN
1	CA	1169	LEU
1	CA	1173	LYS
1	CA	1175	MET
1	CA	1199	GLN
1	CA	1202	LEU
1	CA	1214	ASN
1	CA	1217	LEU
1	CA	1222	LEU
1	CA	1227	MET
1	CA	1235	THR
1	CA	1239	THR
1	CA	1243	TRP
1	CA	1245	ASP
1	CA	1247	SER
1	CA	1248	ASP
1	CA	1250	GLN
1	CA	1260	LYS
1	CA	1262	LEU
1	CA	1264	SER
1	CA	1267	ILE
1	CA	1271	ILE
1	CA	1273	THR
1	CA	1275	THR
1	CA	1276	THR
1	CA	1288	ARG
1	CA	1289	SER
1	CA	1292	ILE
1	CA	1294	MET
1	CA	1298	ASP
1	CA	1300	ASN
1	CA	1303	SER
1	CA	1304	GLU
1	CA	1310	LYS
1	CA	1314	GLN

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Mol	Chain	Res	Type
1	CA	1318	SER
1	CA	1324	LEU
1	CA	1325	LEU
1	CA	1343	ASP
1	CA	1344	ILE
1	CA	1437	ASN
1	CA	1439	MET
1	CA	1440	ASN
1	CA	1441	LYS
1	CA	1442	VAL
1	CA	1444	ARG
1	CA	1452	SER
1	CA	1453	HIS
1	CA	1458	THR
1	CA	1459	LYS
1	CA	1465	GLU
1	CA	1466	SER
1	CA	1468	LYS
1	CA	1472	PHE
1	CA	1474	LEU
1	CA	1476	LEU
1	CA	1479	ASP
1	CA	1481	GLU
1	CA	1485	MET
1	CA	1501	ILE
1	CA	1503	HIS
1	CA	1505	ASP
1	CA	1506	ARG
1	CA	1513	GLU
1	CA	1514	ASN
1	CA	1518	VAL
1	CA	1519	LEU
1	CA	1542	THR
1	CA	1546	VAL
1	CA	1559	ARG
1	CA	1561	THR
1	CA	1562	ILE
1	CA	1566	ILE
1	CA	1568	ASN
1	CA	1583	ASP
1	CA	1584	LEU
1	CA	1585	ILE

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Mol	Chain	Res	Type
1	CA	1590	THR
1	CA	1595	TYR
1	CA	1603	MET
1	CA	1607	THR
1	CA	1609	SER
1	CA	1613	MET
1	CA	1615	TYR
1	CA	1619	CYS
1	CA	1620	GLN
1	CA	1628	ASP
1	CA	1629	ASN
1	CA	1632	GLU
1	CA	1633	GLN
1	CA	1635	ASP
1	CA	1638	SER
1	CA	1647	ASN
1	CA	1649	VAL
2	CB	21	ARG
2	CB	22	GLU
2	CB	26	ILE
2	CB	33	SER
2	CB	37	LEU
2	CB	39	GLN
2	CB	53	THR
2	CB	57	ASP
2	CB	65	VAL
2	CB	66	LYS
2	CB	68	ILE
2	CB	73	ILE
2	CB	74	PHE
2	CB	75	ASP
2	CB	77	LYS
2	CB	90	TYR
2	CB	91	LEU
2	CB	93	ASN
2	CB	96	SER
2	CB	98	SER
2	CB	101	GLN
2	CB	103	SER
2	CB	109	SER
2	CB	110	ASN
2	CB	117	VAL

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Mol	Chain	Res	Type
2	CB	120	LYS
2	CB	124	SER
2	CB	130	LEU
2	CB	134	ARG
2	CB	137	LEU
2	CB	150	GLU
2	CB	151	ASN
2	CB	164	MET
2	CB	170	CYS
2	CB	190	ILE
2	CB	201	LYS
2	CB	202	LEU
2	CB	203	ILE
2	CB	204	ARG
2	CB	206	LEU
2	CB	207	ILE
2	CB	212	ASN
2	CB	217	ILE
2	CB	228	SER
2	CB	231	HIS
2	CB	237	ARG
2	CB	238	SER
2	CB	244	THR
2	CB	245	SER
2	CB	247	THR
2	CB	260	PHE
2	CB	295	ASN
2	CB	306	LEU
2	CB	315	LYS
2	CB	323	ARG
2	CB	328	GLN
2	CB	343	ASP
2	CB	347	LEU
2	CB	351	GLN
2	CB	357	ILE
2	CB	377	MET
2	CB	379	ARG
2	CB	381	LEU
2	CB	397	THR
2	CB	398	GLN
2	CB	403	LEU
2	CB	404	LEU

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Mol	Chain	Res	Type
2	CB	409	TYR
2	CB	413	LEU
2	CB	420	TYR
2	CB	422	GLN
2	CB	425	ILE
2	CB	434	ARG
2	CB	452	ARG
2	CB	454	ASN
2	CB	460	LYS
2	CB	463	TYR
2	CB	472	SER
2	CB	474	SER
2	CB	476	LEU
2	CB	477	ASP
2	CB	479	GLN
2	CB	497	ILE
2	CB	498	SER
2	CB	504	HIS
2	CB	505	ARG
2	CB	507	SER
2	CB	519	LYS
2	CB	520	LEU
2	CB	521	LEU
2	CB	523	GLU
2	CB	537	SER
2	CB	541	LEU
2	CB	543	ASN
2	CB	547	HIS
2	CB	574	SER
2	CB	577	PHE
2	CB	583	LEU
2	CB	585	CYS
2	CB	589	ASP
2	CB	593	ILE
2	CB	604	ILE
2	CB	616	LYS
2	CB	617	THR
2	CB	622	ILE
2	CB	624	LEU
2	CB	636	GLN
2	CB	642	LEU
2	CB	653	VAL

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Mol	Chain	Res	Type
2	CB	654	ARG
2	CB	658	LEU
2	CB	660	LYS
2	CB	661	GLU
2	CB	663	ILE
2	CB	667	PHE
2	CB	670	VAL
2	CB	674	ILE
2	CB	683	ASN
2	CB	687	THR
2	CB	698	SER
2	CB	699	ILE
2	CB	703	LEU
2	CB	711	GLN
2	CB	714	ARG
2	CB	716	MET
2	CB	724	GLN
2	CB	725	THR
2	CB	733	LEU
2	CB	737	SER
2	CB	738	ASP
2	CB	749	THR
2	CB	751	ILE
2	CB	752	VAL
2	CB	756	LEU
2	CB	762	MET
2	CB	773	VAL
2	CB	777	SER
2	CB	779	THR
2	CB	782	ASP
2	CB	783	MET
2	CB	785	ASP
2	CB	798	PHE
2	CB	802	THR
2	CB	806	THR
2	CB	808	LYS
2	CB	809	VAL
2	CB	814	ASN
2	CB	823	GLN
2	CB	829	ASN
2	CB	830	ASP
2	CB	833	PRO

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Mol	Chain	Res	Type
2	CB	835	GLU
2	CB	837	LEU
2	CB	838	GLU
2	CB	839	LYS
2	CB	840	LEU
2	CB	842	GLU
2	CB	843	ASP
2	CB	845	LEU
2	CB	858	ILE
2	CB	865	THR
2	CB	870	LYS
2	CB	871	ILE
2	CB	873	THR
2	CB	876	SER
2	CB	882	ILE
2	CB	883	GLU
2	CB	886	ASN
2	CB	887	LEU
2	CB	892	SER
2	CB	895	PHE
2	CB	896	GLN
2	CB	897	GLU
2	CB	898	LEU
2	CB	903	ILE
2	CB	904	LYS
2	CB	905	TYR
2	CB	907	ILE
2	CB	910	THR
2	CB	919	SER
2	CB	927	CYS
2	CB	933	THR
2	CB	944	GLN
2	CB	947	ILE
2	CB	949	ILE
2	CB	957	ARG
2	CB	958	MET
2	CB	960	ILE
2	CB	962	MET
2	CB	965	GLU
2	CB	967	LEU
2	CB	977	ILE
2	CB	985	ILE

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Mol	Chain	Res	Type
2	CB	988	GLU
2	CB	991	THR
2	CB	999	GLN
2	CB	1015	SER
2	CB	1018	THR
2	CB	1026	ILE
2	CB	1027	TYR
2	CB	1028	VAL
2	CB	1030	VAL
2	CB	1033	TYR
2	CB	1034	GLN
2	CB	1036	LEU
2	CB	1040	VAL
2	CB	1043	LYS
2	CB	1044	PHE
2	CB	1045	GLN
2	CB	1047	ARG
2	CB	1058	GLN
2	CB	1070	ARG
2	CB	1075	GLU
2	CB	1077	ASP
2	CB	1085	SER
2	CB	1091	ARG
2	CB	1092	LEU
2	CB	1094	ASN
2	CB	1102	SER
2	CB	1103	VAL
2	CB	1109	SER
2	CB	1110	ILE
2	CB	1111	LEU
2	CB	1112	THR
2	CB	1119	ARG
2	CB	1120	ILE
2	CB	1127	CYS
2	CB	1136	GLU
2	CB	1140	LYS
2	CB	1142	LEU
2	CB	1143	THR
2	CB	1150	LYS
2	CB	1151	ILE
2	CB	1153	ILE
2	CB	1156	SER

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Mol	Chain	Res	Type
2	CB	1157	GLN
2	CB	1163	GLN
2	CB	1168	VAL
2	CB	1173	THR
2	CB	1174	THR
2	CB	1181	VAL
2	CB	1185	LEU
2	CB	1189	LEU
2	CB	1190	SER
2	CB	1198	TYR
2	CB	1201	GLU
3	CC	32	ASN
3	CC	45	SER
3	CC	48	ASP
3	CC	51	GLU
3	CC	57	ILE
3	CC	59	ILE
3	CC	61	THR
3	CC	68	ARG
3	CC	69	ARG
3	CC	71	MET
3	CC	78	VAL
3	CC	82	TYR
3	CC	86	PHE
3	CC	97	LEU
3	CC	101	ILE
3	CC	118	SER
3	CC	122	ASP
3	CC	128	ASP
3	CC	129	GLU
3	CC	131	THR
3	CC	132	ILE
3	CC	136	LEU
3	CC	139	LYS
3	CC	151	THR
3	CC	168	LYS
3	CC	177	THR
3	CC	188	ASP
3	CC	193	LEU
3	CC	196	LEU
3	CC	204	LEU
3	CC	208	CYS

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Mol	Chain	Res	Type
3	CC	209	ILE
3	CC	210	LEU
3	CC	222	VAL
3	CC	224	THR
3	CC	226	SER
3	CC	228	ARG
3	CC	235	ILE
3	CC	237	GLN
3	CC	262	SER
3	CC	263	ASP
3	CC	264	GLU
3	CC	274	THR
3	CC	277	ARG
3	CC	279	VAL
3	CC	287	ASP
3	CC	289	VAL
3	CC	291	LEU
3	CC	303	GLU
3	CC	315	PHE
3	CC	324	LYS
3	CC	334	THR
4	CD	12	THR
4	CD	14	THR
4	CD	20	VAL
4	CD	82	LEU
4	CD	87	SER
4	CD	88	GLN
4	CD	94	ARG
4	CD	99	LEU
5	CE	4	GLU
5	CE	6	GLU
5	CE	8	ASN
5	CE	10	SER
5	CE	41	ASP
5	CE	52	ARG
5	CE	57	MET
5	CE	60	PHE
5	CE	61	GLN
5	CE	66	GLU
5	CE	70	SER
5	CE	71	LYS
5	CE	78	LEU

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Mol	Chain	Res	Type
5	CE	81	GLU
5	CE	90	VAL
5	CE	92	THR
5	CE	93	MET
5	CE	106	GLN
5	CE	107	THR
5	CE	123	LEU
5	CE	126	SER
5	CE	127	ILE
5	CE	131	THR
5	CE	141	VAL
5	CE	144	ILE
5	CE	148	GLU
5	CE	150	VAL
5	CE	153	HIS
5	CE	166	LYS
5	CE	172	GLU
5	CE	175	LEU
5	CE	177	ARG
5	CE	178	ILE
5	CE	186	LEU
5	CE	192	ARG
5	CE	196	VAL
5	CE	202	SER
5	CE	207	ARG
5	CE	208	TYR
5	CE	213	ILE
6	CF	56	GLU
6	CF	59	GLN
6	CF	77	ASP
6	CF	78	GLN
6	CF	82	THR
6	CF	93	ILE
6	CF	96	THR
6	CF	99	LEU
6	CF	109	VAL
6	CF	110	ASP
6	CF	118	LEU
6	CF	123	LYS
6	CF	148	VAL
6	CF	149	GLU
6	CF	151	LEU

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Mol	Chain	Res	Type
6	CF	154	ASP
7	CG	10	ASN
7	CG	11	ARG
7	CG	15	ARG
7	CG	16	PHE
7	CG	20	HIS
7	CG	21	LYS
7	CG	29	ASP
7	CG	35	SER
7	CG	37	CYS
7	CG	38	ILE
7	CG	39	VAL
7	CG	45	LEU
7	CG	54	LEU
7	CG	59	GLN
7	CG	64	GLN
7	CG	76	LYS
7	CG	77	VAL
7	CG	80	VAL
7	CG	95	LEU
7	CG	97	LYS
7	CG	105	ILE
7	CG	106	LYS
7	CG	116	THR
7	CG	120	VAL
7	CG	122	LEU
7	CG	126	GLN
7	CG	128	GLN
7	CG	139	ILE
7	CG	141	SER
7	CG	144	HIS
7	CG	147	LEU
7	CG	149	ILE
7	CG	164	VAL
7	CG	165	ASP
7	CG	169	VAL
7	CG	170	HIS
7	CG	172	ASP
7	CG	173	VAL
7	CG	174	GLU
7	CG	219	ASP
7	CG	221	ASN

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Mol	Chain	Res	Type
7	CG	226	ASP
7	CG	232	THR
7	CG	239	THR
7	CG	243	VAL
7	CG	248	THR
7	CG	249	LEU
7	CG	250	ILE
7	CG	251	SER
8	CH	5	LEU
8	CH	7	ASP
8	CH	8	ASP
8	CH	9	ILE
8	CH	13	SER
8	CH	25	ARG
8	CH	30	SER
8	CH	32	THR
8	CH	34	ASP
8	CH	35	GLN
8	CH	42	ILE
8	CH	46	LEU
8	CH	53	ASP
8	CH	54	SER
8	CH	55	LEU
8	CH	59	ILE
8	CH	63	LEU
8	CH	80	ARG
8	CH	83	GLN
8	CH	87	ARG
8	CH	94	ASP
8	CH	108	SER
8	CH	112	ILE
8	CH	114	VAL
8	CH	121	LEU
8	CH	122	LEU
8	CH	123	MET
8	CH	124	ARG
8	CH	133	ASN
8	CH	138	GLU
8	CH	143	LEU
9	CI	3	VAL
9	CI	8	ILE
9	CI	11	LEU

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Mol	Chain	Res	Type
9	CI	15	ASP
9	CI	26	SER
9	CI	31	SER
9	CI	32	GLN
9	CI	42	PHE
9	CI	45	LEU
9	CI	49	THR
9	CI	53	ASP
9	CI	68	LYS
9	CI	72	LYS
9	CI	73	LYS
9	CI	89	CYS
9	CI	93	GLU
9	CI	97	HIS
9	CI	98	THR
9	CI	100	GLN
9	CI	102	ARG
9	CI	106	GLU
9	CI	110	VAL
9	CI	111	PHE
9	CI	120	LYS
9	CI	122	ARG
9	CI	123	THR
10	CJ	1	MET
10	CJ	12	LYS
10	CJ	13	VAL
10	CJ	14	VAL
10	CJ	20	SER
10	CJ	23	ASN
10	CJ	27	GLU
10	CJ	34	THR
10	CJ	38	ARG
10	CJ	44	TYR
10	CJ	48	ARG
10	CJ	66	LEU
10	CJ	67	GLU
10	CJ	68	LYS
11	CK	45	GLU
11	CK	51	THR
11	CK	56	GLU
11	CK	59	THR
11	CK	62	SER

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Mol	Chain	Res	Type
11	CK	63	PHE
11	CK	65	ILE
11	CK	68	GLU
11	CK	72	LEU
11	CK	77	ARG
11	CK	89	CYS
11	CK	93	ILE
11	CK	99	ASN
11	CK	103	ILE
11	CK	107	THR
11	CK	110	GLU
11	CK	111	THR
11	CK	112	THR
11	CK	117	LEU
11	CK	125	MET
11	CK	128	CYS
11	CK	134	LYS
11	CK	139	ILE
11	CK	142	MET
12	CL	27	LEU
12	CL	35	SER
12	CL	36	SER
12	CL	38	LEU
12	CL	49	LYS
12	CL	53	HIS
12	CL	55	ILE
12	CL	57	LEU
12	CL	58	LYS
12	CL	65	VAL
12	CL	66	GLN
12	CL	68	GLU
13	CM	7	VAL
13	CM	9	GLU
13	CM	12	ILE
13	CM	17	ASP
13	CM	18	GLN
13	CM	25	SER
13	CM	28	LYS
13	CM	36	THR
13	CM	42	LYS
13	CM	44	LYS
13	CM	48	LYS

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Mol	Chain	Res	Type
13	CM	54	HIS
13	CM	56	GLU
13	CM	57	ASN
13	CM	58	GLU
13	CM	65	TYR
13	CM	70	SER
13	CM	78	VAL
13	CM	88	ILE
13	CM	92	LYS
13	CM	95	VAL
13	CM	98	SER
13	CM	100	VAL
13	CM	104	SER
13	CM	109	ARG
14	CN	25	ILE
14	CN	37	ASN
14	CN	50	GLN
14	CN	56	ILE
14	CN	58	PHE
14	CN	64	ILE
14	CN	70	LEU
14	CN	75	GLU
14	CN	78	THR
14	CN	79	THR
14	CN	80	MET
14	CN	81	THR
14	CN	85	HIS
14	CN	90	MET
14	CN	93	THR
14	CN	106	ASN
14	CN	107	MET
14	CN	108	THR
14	CN	114	GLU
14	CN	118	SER
14	CN	123	SER
14	CN	124	THR
14	CN	126	LYS
14	CN	127	ASP
14	CN	134	ASP
14	CN	138	SER
14	CN	139	VAL
14	CN	141	GLU

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Mol	Chain	Res	Type
14	CN	148	ILE
14	CN	151	SER
14	CN	152	LYS
14	CN	157	ARG
14	CN	159	ASP
14	CN	162	LYS
14	CN	163	VAL
14	CN	171	PHE
14	CN	179	ASP
14	CN	180	PHE
7	CO	266	GLN
7	CO	268	GLU
7	CO	272	ILE
7	CO	275	ASN
7	CO	277	LYS
7	CO	280	PHE
7	CO	289	LYS
7	CO	292	HIS
7	CO	295	LEU
7	CO	297	LEU
7	CO	300	VAL
7	CO	302	GLU
7	CO	306	SER
1	DA	3	ILE
1	DA	9	SER
1	DA	12	THR
1	DA	16	PHE
1	DA	18	ILE
1	DA	20	THR
1	DA	31	GLN
1	DA	40	ASN
1	DA	41	LEU
1	DA	62	CYS
1	DA	83	VAL
1	DA	86	TYR
1	DA	89	LEU
1	DA	109	ARG
1	DA	112	SER
1	DA	130	ILE
1	DA	136	LEU
1	DA	143	SER
1	DA	176	THR

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Mol	Chain	Res	Type
1	DA	177	LEU
1	DA	180	GLU
1	DA	186	SER
1	DA	198	SER
1	DA	199	ASP
1	DA	202	THR
1	DA	203	THR
1	DA	205	ARG
1	DA	208	PHE
1	DA	265	ARG
1	DA	312	SER
1	DA	315	ILE
1	DA	325	ASP
1	DA	326	THR
1	DA	330	LYS
1	DA	333	CYS
1	DA	345	LEU
1	DA	346	SER
1	DA	347	ARG
1	DA	349	LEU
1	DA	357	MET
1	DA	365	THR
1	DA	366	ARG
1	DA	371	SER
1	DA	372	LYS
1	DA	373	LEU
1	DA	375	GLU
1	DA	381	SER
1	DA	397	ARG
1	DA	398	ASP
1	DA	403	LEU
1	DA	406	LEU
1	DA	407	GLN
1	DA	409	ASP
1	DA	417	ARG
1	DA	423	LEU
1	DA	429	THR
1	DA	444	GLN
1	DA	453	ILE
1	DA	466	LEU
1	DA	475	ARG
1	DA	481	ARG

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Mol	Chain	Res	Type
1	DA	483	VAL
1	DA	484	ILE
1	DA	504	LYS
1	DA	505	LEU
1	DA	506	THR
1	DA	509	GLU
1	DA	512	THR
1	DA	529	LYS
1	DA	534	THR
1	DA	549	MET
1	DA	553	GLN
1	DA	559	ASN
1	DA	562	LEU
1	DA	565	SER
1	DA	566	SER
1	DA	568	VAL
1	DA	574	ASN
1	DA	575	LYS
1	DA	576	LYS
1	DA	577	VAL
1	DA	581	ILE
1	DA	582	LYS
1	DA	583	ASN
1	DA	590	ASN
1	DA	594	THR
1	DA	595	LEU
1	DA	596	HIS
1	DA	599	SER
1	DA	613	THR
1	DA	621	THR
1	DA	627	ASP
1	DA	637	PHE
1	DA	642	ASN
1	DA	648	LEU
1	DA	653	THR
1	DA	656	GLN
1	DA	659	THR
1	DA	666	VAL
1	DA	670	ILE
1	DA	675	SER
1	DA	678	VAL
1	DA	679	TRP

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Mol	Chain	Res	Type
1	DA	684	ASP
1	DA	688	THR
1	DA	689	ARG
1	DA	703	GLU
1	DA	706	HIS
1	DA	709	ARG
1	DA	714	THR
1	DA	715	LEU
1	DA	718	THR
1	DA	719	ILE
1	DA	723	TYR
1	DA	727	THR
1	DA	732	ILE
1	DA	736	LEU
1	DA	743	ASP
1	DA	748	ASN
1	DA	750	ILE
1	DA	769	VAL
1	DA	773	ASP
1	DA	783	LYS
1	DA	786	TYR
1	DA	789	SER
1	DA	804	GLU
1	DA	805	VAL
1	DA	809	VAL
1	DA	812	VAL
1	DA	816	LEU
1	DA	821	ILE
1	DA	822	THR
1	DA	830	MET
1	DA	831	ASP
1	DA	832	ASP
1	DA	833	LEU
1	DA	836	THR
1	DA	856	GLU
1	DA	862	THR
1	DA	876	LEU
1	DA	878	ARG
1	DA	886	ASN
1	DA	889	SER
1	DA	892	LEU
1	DA	896	THR

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Mol	Chain	Res	Type
1	DA	905	SER
1	DA	909	SER
1	DA	917	MET
1	DA	922	CYS
1	DA	924	SER
1	DA	945	CYS
1	DA	952	LEU
1	DA	955	ARG
1	DA	956	ARG
1	DA	959	VAL
1	DA	966	LEU
1	DA	973	GLU
1	DA	983	LYS
1	DA	985	ARG
1	DA	986	PHE
1	DA	987	TYR
1	DA	998	HIS
1	DA	999	CYS
1	DA	1003	ARG
1	DA	1004	GLU
1	DA	1013	THR
1	DA	1015	ARG
1	DA	1019	LEU
1	DA	1021	ARG
1	DA	1033	SER
1	DA	1045	LEU
1	DA	1049	MET
1	DA	1053	ASP
1	DA	1057	ILE
1	DA	1072	ASN
1	DA	1076	LEU
1	DA	1083	SER
1	DA	1085	LEU
1	DA	1087	GLU
1	DA	1096	LYS
1	DA	1102	LEU
1	DA	1104	TYR
1	DA	1111	GLU
1	DA	1117	SER
1	DA	1118	VAL
1	DA	1123	VAL
1	DA	1135	SER

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Mol	Chain	Res	Type
1	DA	1136	VAL
1	DA	1137	SER
1	DA	1146	SER
1	DA	1155	PHE
1	DA	1158	SER
1	DA	1159	ASP
1	DA	1162	ASN
1	DA	1169	LEU
1	DA	1173	LYS
1	DA	1175	MET
1	DA	1192	SER
1	DA	1199	GLN
1	DA	1202	LEU
1	DA	1214	ASN
1	DA	1217	LEU
1	DA	1222	LEU
1	DA	1227	MET
1	DA	1235	THR
1	DA	1239	THR
1	DA	1242	ILE
1	DA	1243	TRP
1	DA	1245	ASP
1	DA	1247	SER
1	DA	1248	ASP
1	DA	1250	GLN
1	DA	1260	LYS
1	DA	1262	LEU
1	DA	1264	SER
1	DA	1271	ILE
1	DA	1273	THR
1	DA	1275	THR
1	DA	1276	THR
1	DA	1288	ARG
1	DA	1289	SER
1	DA	1292	ILE
1	DA	1294	MET
1	DA	1298	ASP
1	DA	1300	ASN
1	DA	1303	SER
1	DA	1304	GLU
1	DA	1310	LYS
1	DA	1314	GLN

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Mol	Chain	Res	Type
1	DA	1318	SER
1	DA	1324	LEU
1	DA	1325	LEU
1	DA	1326	GLU
1	DA	1343	ASP
1	DA	1344	ILE
1	DA	1434	GLU
1	DA	1437	ASN
1	DA	1439	MET
1	DA	1440	ASN
1	DA	1441	LYS
1	DA	1442	VAL
1	DA	1444	ARG
1	DA	1452	SER
1	DA	1453	HIS
1	DA	1458	THR
1	DA	1459	LYS
1	DA	1465	GLU
1	DA	1468	LYS
1	DA	1474	LEU
1	DA	1476	LEU
1	DA	1479	ASP
1	DA	1481	GLU
1	DA	1485	MET
1	DA	1501	ILE
1	DA	1503	HIS
1	DA	1506	ARG
1	DA	1513	GLU
1	DA	1514	ASN
1	DA	1518	VAL
1	DA	1519	LEU
1	DA	1520	VAL
1	DA	1529	MET
1	DA	1542	THR
1	DA	1543	SER
1	DA	1546	VAL
1	DA	1559	ARG
1	DA	1561	THR
1	DA	1566	ILE
1	DA	1568	ASN
1	DA	1583	ASP
1	DA	1584	LEU

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Mol	Chain	Res	Type
1	DA	1585	ILE
1	DA	1590	THR
1	DA	1595	TYR
1	DA	1603	MET
1	DA	1607	THR
1	DA	1609	SER
1	DA	1613	MET
1	DA	1615	TYR
1	DA	1619	CYS
1	DA	1620	GLN
1	DA	1623	THR
1	DA	1628	ASP
1	DA	1629	ASN
1	DA	1632	GLU
1	DA	1633	GLN
1	DA	1635	ASP
1	DA	1638	SER
1	DA	1647	ASN
1	DA	1649	VAL
2	DB	21	ARG
2	DB	22	GLU
2	DB	26	ILE
2	DB	33	SER
2	DB	39	GLN
2	DB	53	THR
2	DB	57	ASP
2	DB	65	VAL
2	DB	68	ILE
2	DB	73	ILE
2	DB	74	PHE
2	DB	90	TYR
2	DB	91	LEU
2	DB	93	ASN
2	DB	96	SER
2	DB	101	GLN
2	DB	103	SER
2	DB	109	SER
2	DB	110	ASN
2	DB	117	VAL
2	DB	120	LYS
2	DB	124	SER
2	DB	130	LEU

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Mol	Chain	Res	Type
2	DB	134	ARG
2	DB	137	LEU
2	DB	150	GLU
2	DB	151	ASN
2	DB	164	MET
2	DB	170	CYS
2	DB	190	ILE
2	DB	201	LYS
2	DB	202	LEU
2	DB	203	ILE
2	DB	204	ARG
2	DB	206	LEU
2	DB	207	ILE
2	DB	212	ASN
2	DB	217	ILE
2	DB	228	SER
2	DB	231	HIS
2	DB	237	ARG
2	DB	238	SER
2	DB	244	THR
2	DB	245	SER
2	DB	247	THR
2	DB	260	PHE
2	DB	295	ASN
2	DB	306	LEU
2	DB	315	LYS
2	DB	323	ARG
2	DB	328	GLN
2	DB	343	ASP
2	DB	347	LEU
2	DB	351	GLN
2	DB	357	ILE
2	DB	365	ASP
2	DB	368	GLN
2	DB	377	MET
2	DB	379	ARG
2	DB	381	LEU
2	DB	397	THR
2	DB	398	GLN
2	DB	403	LEU
2	DB	404	LEU
2	DB	409	TYR

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Mol	Chain	Res	Type
2	DB	413	LEU
2	DB	422	GLN
2	DB	425	ILE
2	DB	434	ARG
2	DB	452	ARG
2	DB	454	ASN
2	DB	460	LYS
2	DB	463	TYR
2	DB	472	SER
2	DB	474	SER
2	DB	476	LEU
2	DB	477	ASP
2	DB	479	GLN
2	DB	497	ILE
2	DB	498	SER
2	DB	505	ARG
2	DB	507	SER
2	DB	519	LYS
2	DB	520	LEU
2	DB	521	LEU
2	DB	523	GLU
2	DB	537	SER
2	DB	541	LEU
2	DB	543	ASN
2	DB	547	HIS
2	DB	577	PHE
2	DB	583	LEU
2	DB	585	CYS
2	DB	593	ILE
2	DB	604	ILE
2	DB	616	LYS
2	DB	617	THR
2	DB	622	ILE
2	DB	624	LEU
2	DB	636	GLN
2	DB	642	LEU
2	DB	653	VAL
2	DB	654	ARG
2	DB	658	LEU
2	DB	660	LYS
2	DB	661	GLU
2	DB	663	ILE

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Mol	Chain	Res	Type
2	DB	667	PHE
2	DB	670	VAL
2	DB	674	ILE
2	DB	683	ASN
2	DB	687	THR
2	DB	698	SER
2	DB	699	ILE
2	DB	703	LEU
2	DB	711	GLN
2	DB	714	ARG
2	DB	716	MET
2	DB	724	GLN
2	DB	725	THR
2	DB	733	LEU
2	DB	737	SER
2	DB	738	ASP
2	DB	751	ILE
2	DB	752	VAL
2	DB	756	LEU
2	DB	762	MET
2	DB	773	VAL
2	DB	777	SER
2	DB	779	THR
2	DB	782	ASP
2	DB	783	MET
2	DB	785	ASP
2	DB	798	PHE
2	DB	802	THR
2	DB	806	THR
2	DB	808	LYS
2	DB	809	VAL
2	DB	814	ASN
2	DB	823	GLN
2	DB	829	ASN
2	DB	830	ASP
2	DB	833	PRO
2	DB	835	GLU
2	DB	837	LEU
2	DB	838	GLU
2	DB	839	LYS
2	DB	840	LEU
2	DB	842	GLU

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Mol	Chain	Res	Type
2	DB	843	ASP
2	DB	845	LEU
2	DB	858	ILE
2	DB	865	THR
2	DB	870	LYS
2	DB	871	ILE
2	DB	873	THR
2	DB	876	SER
2	DB	882	ILE
2	DB	883	GLU
2	DB	886	ASN
2	DB	887	LEU
2	DB	895	PHE
2	DB	896	GLN
2	DB	897	GLU
2	DB	898	LEU
2	DB	903	ILE
2	DB	904	LYS
2	DB	905	TYR
2	DB	907	ILE
2	DB	910	THR
2	DB	919	SER
2	DB	927	CYS
2	DB	933	THR
2	DB	944	GLN
2	DB	949	ILE
2	DB	958	MET
2	DB	960	ILE
2	DB	962	MET
2	DB	965	GLU
2	DB	967	LEU
2	DB	977	ILE
2	DB	985	ILE
2	DB	988	GLU
2	DB	991	THR
2	DB	999	GLN
2	DB	1015	SER
2	DB	1018	THR
2	DB	1026	ILE
2	DB	1027	TYR
2	DB	1028	VAL
2	DB	1030	VAL

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Mol	Chain	Res	Type
2	DB	1031	VAL
2	DB	1033	TYR
2	DB	1034	GLN
2	DB	1036	LEU
2	DB	1039	MET
2	DB	1040	VAL
2	DB	1043	LYS
2	DB	1044	PHE
2	DB	1045	GLN
2	DB	1047	ARG
2	DB	1056	THR
2	DB	1058	GLN
2	DB	1070	ARG
2	DB	1075	GLU
2	DB	1077	ASP
2	DB	1085	SER
2	DB	1091	ARG
2	DB	1092	LEU
2	DB	1094	ASN
2	DB	1102	SER
2	DB	1103	VAL
2	DB	1109	SER
2	DB	1110	ILE
2	DB	1111	LEU
2	DB	1112	THR
2	DB	1119	ARG
2	DB	1120	ILE
2	DB	1127	CYS
2	DB	1136	GLU
2	DB	1140	LYS
2	DB	1142	LEU
2	DB	1151	ILE
2	DB	1153	ILE
2	DB	1156	SER
2	DB	1157	GLN
2	DB	1163	GLN
2	DB	1168	VAL
2	DB	1173	THR
2	DB	1174	THR
2	DB	1181	VAL
2	DB	1185	LEU
2	DB	1189	LEU

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Mol	Chain	Res	Type
2	DB	1190	SER
2	DB	1198	TYR
2	DB	1201	GLU
3	DC	32	ASN
3	DC	45	SER
3	DC	48	ASP
3	DC	51	GLU
3	DC	55	ASP
3	DC	57	ILE
3	DC	59	ILE
3	DC	61	THR
3	DC	68	ARG
3	DC	69	ARG
3	DC	71	MET
3	DC	78	VAL
3	DC	82	TYR
3	DC	86	PHE
3	DC	97	LEU
3	DC	101	ILE
3	DC	118	SER
3	DC	122	ASP
3	DC	128	ASP
3	DC	129	GLU
3	DC	131	THR
3	DC	132	ILE
3	DC	136	LEU
3	DC	139	LYS
3	DC	151	THR
3	DC	168	LYS
3	DC	177	THR
3	DC	193	LEU
3	DC	196	LEU
3	DC	204	LEU
3	DC	208	CYS
3	DC	209	ILE
3	DC	210	LEU
3	DC	222	VAL
3	DC	224	THR
3	DC	226	SER
3	DC	228	ARG
3	DC	235	ILE
3	DC	237	GLN

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Mol	Chain	Res	Type
3	DC	262	SER
3	DC	263	ASP
3	DC	264	GLU
3	DC	274	THR
3	DC	277	ARG
3	DC	287	ASP
3	DC	289	VAL
3	DC	291	LEU
3	DC	303	GLU
3	DC	315	PHE
3	DC	324	LYS
3	DC	334	THR
4	DD	12	THR
4	DD	14	THR
4	DD	20	VAL
4	DD	48	GLU
4	DD	82	LEU
4	DD	87	SER
4	DD	88	GLN
4	DD	94	ARG
4	DD	99	LEU
5	DE	4	GLU
5	DE	6	GLU
5	DE	8	ASN
5	DE	10	SER
5	DE	41	ASP
5	DE	52	ARG
5	DE	57	MET
5	DE	60	PHE
5	DE	63	ASN
5	DE	66	GLU
5	DE	70	SER
5	DE	71	LYS
5	DE	78	LEU
5	DE	81	GLU
5	DE	90	VAL
5	DE	92	THR
5	DE	93	MET
5	DE	106	GLN
5	DE	107	THR
5	DE	123	LEU
5	DE	126	SER

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Mol	Chain	Res	Type
5	DE	127	ILE
5	DE	131	THR
5	DE	136	ASN
5	DE	141	VAL
5	DE	144	ILE
5	DE	148	GLU
5	DE	150	VAL
5	DE	153	HIS
5	DE	166	LYS
5	DE	172	GLU
5	DE	175	LEU
5	DE	177	ARG
5	DE	178	ILE
5	DE	186	LEU
5	DE	192	ARG
5	DE	196	VAL
5	DE	202	SER
5	DE	207	ARG
5	DE	213	ILE
6	DF	56	GLU
6	DF	59	GLN
6	DF	77	ASP
6	DF	78	GLN
6	DF	82	THR
6	DF	93	ILE
6	DF	96	THR
6	DF	99	LEU
6	DF	109	VAL
6	DF	110	ASP
6	DF	118	LEU
6	DF	148	VAL
6	DF	149	GLU
6	DF	151	LEU
6	DF	154	ASP
7	DG	10	ASN
7	DG	11	ARG
7	DG	15	ARG
7	DG	16	PHE
7	DG	20	HIS
7	DG	29	ASP
7	DG	34	THR
7	DG	35	SER

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Mol	Chain	Res	Type
7	DG	37	CYS
7	DG	38	ILE
7	DG	39	VAL
7	DG	45	LEU
7	DG	54	LEU
7	DG	64	GLN
7	DG	70	VAL
7	DG	76	LYS
7	DG	77	VAL
7	DG	95	LEU
7	DG	97	LYS
7	DG	105	ILE
7	DG	106	LYS
7	DG	116	THR
7	DG	120	VAL
7	DG	122	LEU
7	DG	126	GLN
7	DG	128	GLN
7	DG	132	VAL
7	DG	139	ILE
7	DG	141	SER
7	DG	147	LEU
7	DG	149	ILE
7	DG	164	VAL
7	DG	165	ASP
7	DG	169	VAL
7	DG	170	HIS
7	DG	172	ASP
7	DG	173	VAL
7	DG	174	GLU
7	DG	219	ASP
7	DG	221	ASN
7	DG	226	ASP
7	DG	232	THR
7	DG	239	THR
7	DG	243	VAL
7	DG	248	THR
7	DG	249	LEU
7	DG	250	ILE
7	DG	251	SER
8	DH	5	LEU
8	DH	7	ASP

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Mol	Chain	Res	Type
8	DH	8	ASP
8	DH	9	ILE
8	DH	13	SER
8	DH	25	ARG
8	DH	30	SER
8	DH	35	GLN
8	DH	42	ILE
8	DH	45	GLU
8	DH	53	ASP
8	DH	54	SER
8	DH	55	LEU
8	DH	59	ILE
8	DH	63	LEU
8	DH	76	THR
8	DH	80	ARG
8	DH	83	GLN
8	DH	87	ARG
8	DH	94	ASP
8	DH	108	SER
8	DH	112	ILE
8	DH	114	VAL
8	DH	121	LEU
8	DH	122	LEU
8	DH	123	MET
8	DH	124	ARG
8	DH	133	ASN
8	DH	138	GLU
8	DH	143	LEU
8	DH	145	ARG
9	DI	3	VAL
9	DI	8	ILE
9	DI	11	LEU
9	DI	15	ASP
9	DI	26	SER
9	DI	31	SER
9	DI	32	GLN
9	DI	42	PHE
9	DI	45	LEU
9	DI	49	THR
9	DI	53	ASP
9	DI	66	VAL
9	DI	68	LYS

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Mol	Chain	Res	Type
9	DI	72	LYS
9	DI	73	LYS
9	DI	89	CYS
9	DI	93	GLU
9	DI	94	MET
9	DI	97	HIS
9	DI	100	GLN
9	DI	102	ARG
9	DI	106	GLU
9	DI	110	VAL
9	DI	111	PHE
9	DI	120	LYS
9	DI	121	PHE
9	DI	122	ARG
9	DI	123	THR
10	DJ	1	MET
10	DJ	12	LYS
10	DJ	13	VAL
10	DJ	14	VAL
10	DJ	20	SER
10	DJ	23	ASN
10	DJ	27	GLU
10	DJ	34	THR
10	DJ	38	ARG
10	DJ	44	TYR
10	DJ	48	ARG
10	DJ	66	LEU
10	DJ	67	GLU
10	DJ	68	LYS
10	DJ	69	ARG
11	DK	45	GLU
11	DK	51	THR
11	DK	56	GLU
11	DK	59	THR
11	DK	62	SER
11	DK	63	PHE
11	DK	65	ILE
11	DK	68	GLU
11	DK	72	LEU
11	DK	77	ARG
11	DK	89	CYS
11	DK	93	ILE

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Mol	Chain	Res	Type
11	DK	98	GLU
11	DK	99	ASN
11	DK	103	ILE
11	DK	107	THR
11	DK	110	GLU
11	DK	111	THR
11	DK	112	THR
11	DK	117	LEU
11	DK	125	MET
11	DK	128	CYS
11	DK	134	LYS
11	DK	139	ILE
11	DK	142	MET
12	DL	27	LEU
12	DL	35	SER
12	DL	36	SER
12	DL	38	LEU
12	DL	49	LYS
12	DL	53	HIS
12	DL	55	ILE
12	DL	57	LEU
12	DL	58	LYS
12	DL	65	VAL
12	DL	66	GLN
12	DL	68	GLU
13	DM	7	VAL
13	DM	9	GLU
13	DM	12	ILE
13	DM	17	ASP
13	DM	18	GLN
13	DM	25	SER
13	DM	28	LYS
13	DM	36	THR
13	DM	42	LYS
13	DM	44	LYS
13	DM	48	LYS
13	DM	54	HIS
13	DM	56	GLU
13	DM	57	ASN
13	DM	58	GLU
13	DM	65	TYR
13	DM	68	SER

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Mol	Chain	Res	Type
13	DM	70	SER
13	DM	78	VAL
13	DM	92	LYS
13	DM	95	VAL
13	DM	98	SER
13	DM	100	VAL
13	DM	104	SER
13	DM	109	ARG
14	DN	25	ILE
14	DN	37	ASN
14	DN	40	LEU
14	DN	50	GLN
14	DN	56	ILE
14	DN	58	PHE
14	DN	64	ILE
14	DN	70	LEU
14	DN	75	GLU
14	DN	78	THR
14	DN	79	THR
14	DN	80	MET
14	DN	81	THR
14	DN	85	HIS
14	DN	90	MET
14	DN	92	ASP
14	DN	94	ASP
14	DN	98	SER
14	DN	106	ASN
14	DN	107	MET
14	DN	108	THR
14	DN	118	SER
14	DN	123	SER
14	DN	124	THR
14	DN	126	LYS
14	DN	127	ASP
14	DN	134	ASP
14	DN	138	SER
14	DN	139	VAL
14	DN	141	GLU
14	DN	148	ILE
14	DN	151	SER
14	DN	152	LYS
14	DN	157	ARG

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Mol	Chain	Res	Type
14	DN	159	ASP
14	DN	162	LYS
14	DN	163	VAL
14	DN	171	PHE
7	DO	266	GLN
7	DO	268	GLU
7	DO	270	LEU
7	DO	272	ILE
7	DO	273	VAL
7	DO	276	LYS
7	DO	277	LYS
7	DO	278	ILE
7	DO	280	PHE
7	DO	281	ASP
7	DO	289	LYS
7	DO	295	LEU
7	DO	296	ASP
7	DO	297	LEU
7	DO	299	GLU
7	DO	300	VAL
7	DO	309	VAL
7	DO	315	SER
1	EA	3	ILE
1	EA	9	SER
1	EA	12	THR
1	EA	20	THR
1	EA	31	GLN
1	EA	40	ASN
1	EA	41	LEU
1	EA	62	CYS
1	EA	83	VAL
1	EA	86	TYR
1	EA	89	LEU
1	EA	109	ARG
1	EA	112	SER
1	EA	136	LEU
1	EA	143	SER
1	EA	176	THR
1	EA	177	LEU
1	EA	179	ASN
1	EA	180	GLU
1	EA	183	SER

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Mol	Chain	Res	Type
1	EA	186	SER
1	EA	198	SER
1	EA	199	ASP
1	EA	202	THR
1	EA	203	THR
1	EA	204	GLU
1	EA	205	ARG
1	EA	208	PHE
1	EA	265	ARG
1	EA	267	LYS
1	EA	312	SER
1	EA	315	ILE
1	EA	325	ASP
1	EA	326	THR
1	EA	330	LYS
1	EA	333	CYS
1	EA	345	LEU
1	EA	346	SER
1	EA	347	ARG
1	EA	349	LEU
1	EA	357	MET
1	EA	365	THR
1	EA	366	ARG
1	EA	371	SER
1	EA	372	LYS
1	EA	373	LEU
1	EA	375	GLU
1	EA	381	SER
1	EA	397	ARG
1	EA	398	ASP
1	EA	403	LEU
1	EA	406	LEU
1	EA	407	GLN
1	EA	409	ASP
1	EA	417	ARG
1	EA	423	LEU
1	EA	429	THR
1	EA	444	GLN
1	EA	453	ILE
1	EA	464	GLU
1	EA	466	LEU
1	EA	475	ARG

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Mol	Chain	Res	Type
1	EA	481	ARG
1	EA	483	VAL
1	EA	484	ILE
1	EA	485	SER
1	EA	504	LYS
1	EA	506	THR
1	EA	512	THR
1	EA	529	LYS
1	EA	534	THR
1	EA	545	SER
1	EA	549	MET
1	EA	553	GLN
1	EA	559	ASN
1	EA	562	LEU
1	EA	565	SER
1	EA	566	SER
1	EA	568	VAL
1	EA	574	ASN
1	EA	575	LYS
1	EA	576	LYS
1	EA	577	VAL
1	EA	581	ILE
1	EA	582	LYS
1	EA	583	ASN
1	EA	590	ASN
1	EA	594	THR
1	EA	595	LEU
1	EA	596	HIS
1	EA	599	SER
1	EA	613	THR
1	EA	621	THR
1	EA	627	ASP
1	EA	637	PHE
1	EA	648	LEU
1	EA	653	THR
1	EA	659	THR
1	EA	666	VAL
1	EA	670	ILE
1	EA	675	SER
1	EA	678	VAL
1	EA	679	TRP
1	EA	684	ASP

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Mol	Chain	Res	Type
1	EA	688	THR
1	EA	689	ARG
1	EA	703	GLU
1	EA	706	HIS
1	EA	709	ARG
1	EA	714	THR
1	EA	715	LEU
1	EA	718	THR
1	EA	719	ILE
1	EA	723	TYR
1	EA	727	THR
1	EA	732	ILE
1	EA	736	LEU
1	EA	743	ASP
1	EA	744	MET
1	EA	748	ASN
1	EA	750	ILE
1	EA	769	VAL
1	EA	773	ASP
1	EA	783	LYS
1	EA	789	SER
1	EA	804	GLU
1	EA	805	VAL
1	EA	809	VAL
1	EA	816	LEU
1	EA	821	ILE
1	EA	822	THR
1	EA	830	MET
1	EA	831	ASP
1	EA	832	ASP
1	EA	833	LEU
1	EA	836	THR
1	EA	856	GLU
1	EA	862	THR
1	EA	868	THR
1	EA	876	LEU
1	EA	878	ARG
1	EA	886	ASN
1	EA	889	SER
1	EA	892	LEU
1	EA	896	THR
1	EA	909	SER

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Mol	Chain	Res	Type
1	EA	917	MET
1	EA	922	CYS
1	EA	924	SER
1	EA	945	CYS
1	EA	952	LEU
1	EA	956	ARG
1	EA	959	VAL
1	EA	964	LYS
1	EA	966	LEU
1	EA	973	GLU
1	EA	983	LYS
1	EA	985	ARG
1	EA	987	TYR
1	EA	998	HIS
1	EA	999	CYS
1	EA	1003	ARG
1	EA	1004	GLU
1	EA	1013	THR
1	EA	1015	ARG
1	EA	1019	LEU
1	EA	1021	ARG
1	EA	1022	CYS
1	EA	1023	LEU
1	EA	1033	SER
1	EA	1045	LEU
1	EA	1053	ASP
1	EA	1057	ILE
1	EA	1076	LEU
1	EA	1083	SER
1	EA	1085	LEU
1	EA	1087	GLU
1	EA	1096	LYS
1	EA	1102	LEU
1	EA	1104	TYR
1	EA	1111	GLU
1	EA	1117	SER
1	EA	1118	VAL
1	EA	1123	VAL
1	EA	1135	SER
1	EA	1136	VAL
1	EA	1137	SER
1	EA	1146	SER

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Mol	Chain	Res	Type
1	EA	1155	PHE
1	EA	1158	SER
1	EA	1159	ASP
1	EA	1162	ASN
1	EA	1169	LEU
1	EA	1173	LYS
1	EA	1175	MET
1	EA	1192	SER
1	EA	1199	GLN
1	EA	1202	LEU
1	EA	1214	ASN
1	EA	1217	LEU
1	EA	1222	LEU
1	EA	1227	MET
1	EA	1235	THR
1	EA	1239	THR
1	EA	1243	TRP
1	EA	1245	ASP
1	EA	1247	SER
1	EA	1248	ASP
1	EA	1250	GLN
1	EA	1260	LYS
1	EA	1262	LEU
1	EA	1264	SER
1	EA	1267	ILE
1	EA	1271	ILE
1	EA	1273	THR
1	EA	1275	THR
1	EA	1276	THR
1	EA	1288	ARG
1	EA	1289	SER
1	EA	1292	ILE
1	EA	1293	HIS
1	EA	1294	MET
1	EA	1298	ASP
1	EA	1303	SER
1	EA	1304	GLU
1	EA	1310	LYS
1	EA	1314	GLN
1	EA	1318	SER
1	EA	1324	LEU
1	EA	1325	LEU

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Mol	Chain	Res	Type
1	EA	1326	GLU
1	EA	1343	ASP
1	EA	1344	ILE
1	EA	1437	ASN
1	EA	1439	MET
1	EA	1440	ASN
1	EA	1441	LYS
1	EA	1442	VAL
1	EA	1444	ARG
1	EA	1452	SER
1	EA	1453	HIS
1	EA	1458	THR
1	EA	1459	LYS
1	EA	1465	GLU
1	EA	1468	LYS
1	EA	1474	LEU
1	EA	1476	LEU
1	EA	1481	GLU
1	EA	1485	MET
1	EA	1501	ILE
1	EA	1503	HIS
1	EA	1506	ARG
1	EA	1513	GLU
1	EA	1514	ASN
1	EA	1519	LEU
1	EA	1529	MET
1	EA	1542	THR
1	EA	1543	SER
1	EA	1546	VAL
1	EA	1559	ARG
1	EA	1561	THR
1	EA	1562	ILE
1	EA	1566	ILE
1	EA	1568	ASN
1	EA	1583	ASP
1	EA	1584	LEU
1	EA	1585	ILE
1	EA	1590	THR
1	EA	1595	TYR
1	EA	1603	MET
1	EA	1607	THR
1	EA	1609	SER

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Mol	Chain	Res	Type
1	EA	1613	MET
1	EA	1615	TYR
1	EA	1619	CYS
1	EA	1628	ASP
1	EA	1629	ASN
1	EA	1632	GLU
1	EA	1633	GLN
1	EA	1635	ASP
1	EA	1638	SER
1	EA	1647	ASN
1	EA	1649	VAL
1	EA	1656	VAL
2	EB	21	ARG
2	EB	22	GLU
2	EB	26	ILE
2	EB	33	SER
2	EB	39	GLN
2	EB	53	THR
2	EB	57	ASP
2	EB	65	VAL
2	EB	66	LYS
2	EB	67	ASP
2	EB	68	ILE
2	EB	73	ILE
2	EB	74	PHE
2	EB	77	LYS
2	EB	91	LEU
2	EB	93	ASN
2	EB	96	SER
2	EB	98	SER
2	EB	101	GLN
2	EB	109	SER
2	EB	110	ASN
2	EB	117	VAL
2	EB	120	LYS
2	EB	124	SER
2	EB	130	LEU
2	EB	134	ARG
2	EB	137	LEU
2	EB	150	GLU
2	EB	151	ASN
2	EB	164	MET

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Mol	Chain	Res	Type
2	EB	170	CYS
2	EB	190	ILE
2	EB	201	LYS
2	EB	202	LEU
2	EB	203	ILE
2	EB	204	ARG
2	EB	206	LEU
2	EB	207	ILE
2	EB	212	ASN
2	EB	217	ILE
2	EB	228	SER
2	EB	231	HIS
2	EB	237	ARG
2	EB	238	SER
2	EB	244	THR
2	EB	245	SER
2	EB	247	THR
2	EB	260	PHE
2	EB	295	ASN
2	EB	306	LEU
2	EB	315	LYS
2	EB	323	ARG
2	EB	328	GLN
2	EB	343	ASP
2	EB	347	LEU
2	EB	351	GLN
2	EB	357	ILE
2	EB	377	MET
2	EB	379	ARG
2	EB	381	LEU
2	EB	395	ASP
2	EB	397	THR
2	EB	398	GLN
2	EB	403	LEU
2	EB	404	LEU
2	EB	409	TYR
2	EB	413	LEU
2	EB	422	GLN
2	EB	425	ILE
2	EB	434	ARG
2	EB	452	ARG
2	EB	454	ASN

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Mol	Chain	Res	Type
2	EB	460	LYS
2	EB	463	TYR
2	EB	472	SER
2	EB	474	SER
2	EB	476	LEU
2	EB	477	ASP
2	EB	479	GLN
2	EB	497	ILE
2	EB	498	SER
2	EB	505	ARG
2	EB	507	SER
2	EB	519	LYS
2	EB	520	LEU
2	EB	521	LEU
2	EB	523	GLU
2	EB	537	SER
2	EB	541	LEU
2	EB	543	ASN
2	EB	547	HIS
2	EB	577	PHE
2	EB	583	LEU
2	EB	585	CYS
2	EB	593	ILE
2	EB	604	ILE
2	EB	616	LYS
2	EB	617	THR
2	EB	622	ILE
2	EB	624	LEU
2	EB	636	GLN
2	EB	642	LEU
2	EB	653	VAL
2	EB	654	ARG
2	EB	658	LEU
2	EB	660	LYS
2	EB	661	GLU
2	EB	663	ILE
2	EB	667	PHE
2	EB	670	VAL
2	EB	674	ILE
2	EB	683	ASN
2	EB	687	THR
2	EB	698	SER

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Mol	Chain	Res	Type
2	EB	699	ILE
2	EB	703	LEU
2	EB	711	GLN
2	EB	714	ARG
2	EB	716	MET
2	EB	724	GLN
2	EB	725	THR
2	EB	737	SER
2	EB	738	ASP
2	EB	751	ILE
2	EB	752	VAL
2	EB	756	LEU
2	EB	762	MET
2	EB	773	VAL
2	EB	777	SER
2	EB	779	THR
2	EB	782	ASP
2	EB	783	MET
2	EB	785	ASP
2	EB	798	PHE
2	EB	802	THR
2	EB	808	LYS
2	EB	809	VAL
2	EB	811	LEU
2	EB	814	ASN
2	EB	823	GLN
2	EB	829	ASN
2	EB	830	ASP
2	EB	833	PRO
2	EB	835	GLU
2	EB	837	LEU
2	EB	838	GLU
2	EB	839	LYS
2	EB	840	LEU
2	EB	842	GLU
2	EB	843	ASP
2	EB	845	LEU
2	EB	858	ILE
2	EB	865	THR
2	EB	870	LYS
2	EB	871	ILE
2	EB	873	THR

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Mol	Chain	Res	Type
2	EB	876	SER
2	EB	882	ILE
2	EB	883	GLU
2	EB	886	ASN
2	EB	887	LEU
2	EB	891	GLU
2	EB	893	ASN
2	EB	895	PHE
2	EB	896	GLN
2	EB	897	GLU
2	EB	898	LEU
2	EB	903	ILE
2	EB	904	LYS
2	EB	905	TYR
2	EB	907	ILE
2	EB	910	THR
2	EB	919	SER
2	EB	927	CYS
2	EB	933	THR
2	EB	944	GLN
2	EB	947	ILE
2	EB	949	ILE
2	EB	958	MET
2	EB	960	ILE
2	EB	962	MET
2	EB	965	GLU
2	EB	967	LEU
2	EB	977	ILE
2	EB	985	ILE
2	EB	988	GLU
2	EB	991	THR
2	EB	999	GLN
2	EB	1015	SER
2	EB	1018	THR
2	EB	1026	ILE
2	EB	1027	TYR
2	EB	1028	VAL
2	EB	1030	VAL
2	EB	1033	TYR
2	EB	1034	GLN
2	EB	1036	LEU
2	EB	1039	MET

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Mol	Chain	Res	Type
2	EB	1040	VAL
2	EB	1043	LYS
2	EB	1044	PHE
2	EB	1045	GLN
2	EB	1047	ARG
2	EB	1058	GLN
2	EB	1070	ARG
2	EB	1075	GLU
2	EB	1077	ASP
2	EB	1085	SER
2	EB	1091	ARG
2	EB	1092	LEU
2	EB	1094	ASN
2	EB	1102	SER
2	EB	1103	VAL
2	EB	1109	SER
2	EB	1110	ILE
2	EB	1111	LEU
2	EB	1112	THR
2	EB	1119	ARG
2	EB	1120	ILE
2	EB	1127	CYS
2	EB	1136	GLU
2	EB	1140	LYS
2	EB	1142	LEU
2	EB	1144	LYS
2	EB	1150	LYS
2	EB	1151	ILE
2	EB	1153	ILE
2	EB	1156	SER
2	EB	1157	GLN
2	EB	1163	GLN
2	EB	1168	VAL
2	EB	1173	THR
2	EB	1174	THR
2	EB	1181	VAL
2	EB	1185	LEU
2	EB	1189	LEU
2	EB	1190	SER
2	EB	1198	TYR
2	EB	1201	GLU
3	EC	32	ASN

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Mol	Chain	Res	Type
3	EC	45	SER
3	EC	48	ASP
3	EC	51	GLU
3	EC	57	ILE
3	EC	59	ILE
3	EC	61	THR
3	EC	68	ARG
3	EC	69	ARG
3	EC	71	MET
3	EC	78	VAL
3	EC	82	TYR
3	EC	86	PHE
3	EC	97	LEU
3	EC	101	ILE
3	EC	118	SER
3	EC	122	ASP
3	EC	128	ASP
3	EC	129	GLU
3	EC	131	THR
3	EC	132	ILE
3	EC	136	LEU
3	EC	139	LYS
3	EC	151	THR
3	EC	168	LYS
3	EC	177	THR
3	EC	193	LEU
3	EC	196	LEU
3	EC	202	ILE
3	EC	204	LEU
3	EC	208	CYS
3	EC	209	ILE
3	EC	210	LEU
3	EC	222	VAL
3	EC	224	THR
3	EC	226	SER
3	EC	228	ARG
3	EC	235	ILE
3	EC	237	GLN
3	EC	262	SER
3	EC	263	ASP
3	EC	264	GLU
3	EC	272	LYS

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Mol	Chain	Res	Type
3	EC	277	ARG
3	EC	279	VAL
3	EC	287	ASP
3	EC	289	VAL
3	EC	291	LEU
3	EC	303	GLU
3	EC	315	PHE
3	EC	324	LYS
3	EC	334	THR
4	ED	12	THR
4	ED	14	THR
4	ED	20	VAL
4	ED	82	LEU
4	ED	87	SER
4	ED	88	GLN
4	ED	94	ARG
4	ED	99	LEU
5	EE	4	GLU
5	EE	6	GLU
5	EE	8	ASN
5	EE	10	SER
5	EE	41	ASP
5	EE	57	MET
5	EE	60	PHE
5	EE	61	GLN
5	EE	63	ASN
5	EE	66	GLU
5	EE	70	SER
5	EE	71	LYS
5	EE	78	LEU
5	EE	81	GLU
5	EE	90	VAL
5	EE	92	THR
5	EE	93	MET
5	EE	106	GLN
5	EE	123	LEU
5	EE	126	SER
5	EE	127	ILE
5	EE	131	THR
5	EE	141	VAL
5	EE	144	ILE
5	EE	148	GLU

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Mol	Chain	Res	Type
5	EE	150	VAL
5	EE	153	HIS
5	EE	166	LYS
5	EE	172	GLU
5	EE	173	SER
5	EE	175	LEU
5	EE	177	ARG
5	EE	178	ILE
5	EE	180	ARG
5	EE	186	LEU
5	EE	192	ARG
5	EE	196	VAL
5	EE	202	SER
5	EE	207	ARG
5	EE	213	ILE
6	EF	56	GLU
6	EF	77	ASP
6	EF	78	GLN
6	EF	82	THR
6	EF	93	ILE
6	EF	96	THR
6	EF	99	LEU
6	EF	109	VAL
6	EF	110	ASP
6	EF	118	LEU
6	EF	148	VAL
6	EF	149	GLU
6	EF	151	LEU
6	EF	154	ASP
7	EG	10	ASN
7	EG	11	ARG
7	EG	15	ARG
7	EG	16	PHE
7	EG	20	HIS
7	EG	21	LYS
7	EG	29	ASP
7	EG	35	SER
7	EG	37	CYS
7	EG	38	ILE
7	EG	39	VAL
7	EG	45	LEU
7	EG	54	LEU

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Mol	Chain	Res	Type
7	EG	64	GLN
7	EG	76	LYS
7	EG	77	VAL
7	EG	95	LEU
7	EG	97	LYS
7	EG	105	ILE
7	EG	106	LYS
7	EG	116	THR
7	EG	120	VAL
7	EG	122	LEU
7	EG	126	GLN
7	EG	128	GLN
7	EG	139	ILE
7	EG	141	SER
7	EG	144	HIS
7	EG	147	LEU
7	EG	149	ILE
7	EG	164	VAL
7	EG	165	ASP
7	EG	169	VAL
7	EG	170	HIS
7	EG	172	ASP
7	EG	173	VAL
7	EG	174	GLU
7	EG	219	ASP
7	EG	221	ASN
7	EG	226	ASP
7	EG	232	THR
7	EG	239	THR
7	EG	243	VAL
7	EG	248	THR
7	EG	249	LEU
7	EG	250	ILE
7	EG	251	SER
8	EH	5	LEU
8	EH	7	ASP
8	EH	8	ASP
8	EH	9	ILE
8	EH	13	SER
8	EH	25	ARG
8	EH	30	SER
8	EH	34	ASP

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Mol	Chain	Res	Type
8	EH	35	GLN
8	EH	37	LYS
8	EH	42	ILE
8	EH	45	GLU
8	EH	46	LEU
8	EH	53	ASP
8	EH	54	SER
8	EH	55	LEU
8	EH	59	ILE
8	EH	63	LEU
8	EH	77	ARG
8	EH	80	ARG
8	EH	83	GLN
8	EH	87	ARG
8	EH	94	ASP
8	EH	108	SER
8	EH	112	ILE
8	EH	114	VAL
8	EH	121	LEU
8	EH	122	LEU
8	EH	123	MET
8	EH	124	ARG
8	EH	133	ASN
8	EH	138	GLU
8	EH	143	LEU
9	EI	3	VAL
9	EI	8	ILE
9	EI	11	LEU
9	EI	15	ASP
9	EI	31	SER
9	EI	32	GLN
9	EI	42	PHE
9	EI	45	LEU
9	EI	49	THR
9	EI	53	ASP
9	EI	68	LYS
9	EI	72	LYS
9	EI	73	LYS
9	EI	89	CYS
9	EI	97	HIS
9	EI	98	THR
9	EI	100	GLN

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Mol	Chain	Res	Type
9	EI	102	ARG
9	EI	106	GLU
9	EI	110	VAL
9	EI	111	PHE
9	EI	120	LYS
9	EI	121	PHE
9	EI	122	ARG
9	EI	123	THR
10	EJ	1	MET
10	EJ	12	LYS
10	EJ	13	VAL
10	EJ	14	VAL
10	EJ	20	SER
10	EJ	23	ASN
10	EJ	27	GLU
10	EJ	34	THR
10	EJ	38	ARG
10	EJ	48	ARG
10	EJ	66	LEU
10	EJ	67	GLU
10	EJ	68	LYS
11	EK	45	GLU
11	EK	51	THR
11	EK	56	GLU
11	EK	59	THR
11	EK	62	SER
11	EK	63	PHE
11	EK	65	ILE
11	EK	68	GLU
11	EK	72	LEU
11	EK	77	ARG
11	EK	89	CYS
11	EK	93	ILE
11	EK	99	ASN
11	EK	103	ILE
11	EK	107	THR
11	EK	110	GLU
11	EK	111	THR
11	EK	112	THR
11	EK	117	LEU
11	EK	125	MET
11	EK	128	CYS

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Mol	Chain	Res	Type
11	EK	134	LYS
11	EK	139	ILE
11	EK	142	MET
12	EL	27	LEU
12	EL	35	SER
12	EL	36	SER
12	EL	38	LEU
12	EL	49	LYS
12	EL	53	HIS
12	EL	55	ILE
12	EL	57	LEU
12	EL	58	LYS
12	EL	65	VAL
12	EL	66	GLN
12	EL	68	GLU
13	EM	6	SER
13	EM	7	VAL
13	EM	9	GLU
13	EM	12	ILE
13	EM	17	ASP
13	EM	18	GLN
13	EM	20	SER
13	EM	25	SER
13	EM	28	LYS
13	EM	36	THR
13	EM	42	LYS
13	EM	44	LYS
13	EM	48	LYS
13	EM	54	HIS
13	EM	56	GLU
13	EM	57	ASN
13	EM	58	GLU
13	EM	65	TYR
13	EM	68	SER
13	EM	70	SER
13	EM	78	VAL
13	EM	92	LYS
13	EM	95	VAL
13	EM	98	SER
13	EM	100	VAL
13	EM	104	SER
13	EM	109	ARG

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Mol	Chain	Res	Type
14	EN	25	ILE
14	EN	37	ASN
14	EN	41	ASN
14	EN	50	GLN
14	EN	56	ILE
14	EN	58	PHE
14	EN	64	ILE
14	EN	70	LEU
14	EN	75	GLU
14	EN	78	THR
14	EN	79	THR
14	EN	80	MET
14	EN	81	THR
14	EN	85	HIS
14	EN	90	MET
14	EN	98	SER
14	EN	106	ASN
14	EN	107	MET
14	EN	108	THR
14	EN	114	GLU
14	EN	118	SER
14	EN	123	SER
14	EN	124	THR
14	EN	126	LYS
14	EN	127	ASP
14	EN	134	ASP
14	EN	138	SER
14	EN	139	VAL
14	EN	141	GLU
14	EN	148	ILE
14	EN	151	SER
14	EN	152	LYS
14	EN	157	ARG
14	EN	159	ASP
14	EN	162	LYS
14	EN	163	VAL
14	EN	171	PHE
7	EO	268	GLU
7	EO	270	LEU
7	EO	272	ILE
7	EO	273	VAL
7	EO	275	ASN

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Mol	Chain	Res	Type
7	EO	280	PHE
7	EO	283	GLU
7	EO	292	HIS
7	EO	295	LEU
7	EO	296	ASP
7	EO	297	LEU
7	EO	301	LYS
7	EO	302	GLU
7	EO	303	ASP
7	EO	304	ASN
7	EO	309	VAL
7	EO	315	SER
1	FA	1	MET
1	FA	3	ILE
1	FA	9	SER
1	FA	12	THR
1	FA	18	ILE
1	FA	20	THR
1	FA	31	GLN
1	FA	40	ASN
1	FA	41	LEU
1	FA	62	CYS
1	FA	83	VAL
1	FA	86	TYR
1	FA	89	LEU
1	FA	109	ARG
1	FA	112	SER
1	FA	130	ILE
1	FA	136	LEU
1	FA	176	THR
1	FA	177	LEU
1	FA	179	ASN
1	FA	180	GLU
1	FA	186	SER
1	FA	198	SER
1	FA	199	ASP
1	FA	202	THR
1	FA	203	THR
1	FA	204	GLU
1	FA	205	ARG
1	FA	208	PHE
1	FA	265	ARG

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Mol	Chain	Res	Type
1	FA	267	LYS
1	FA	269	PHE
1	FA	312	SER
1	FA	315	ILE
1	FA	325	ASP
1	FA	326	THR
1	FA	330	LYS
1	FA	333	CYS
1	FA	345	LEU
1	FA	346	SER
1	FA	347	ARG
1	FA	349	LEU
1	FA	365	THR
1	FA	366	ARG
1	FA	371	SER
1	FA	372	LYS
1	FA	373	LEU
1	FA	375	GLU
1	FA	381	SER
1	FA	397	ARG
1	FA	398	ASP
1	FA	403	LEU
1	FA	406	LEU
1	FA	407	GLN
1	FA	409	ASP
1	FA	417	ARG
1	FA	423	LEU
1	FA	429	THR
1	FA	444	GLN
1	FA	453	ILE
1	FA	464	GLU
1	FA	466	LEU
1	FA	475	ARG
1	FA	481	ARG
1	FA	483	VAL
1	FA	484	ILE
1	FA	501	PHE
1	FA	504	LYS
1	FA	506	THR
1	FA	509	GLU
1	FA	512	THR
1	FA	529	LYS

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Mol	Chain	Res	Type
1	FA	534	THR
1	FA	545	SER
1	FA	549	MET
1	FA	553	GLN
1	FA	559	ASN
1	FA	562	LEU
1	FA	565	SER
1	FA	566	SER
1	FA	568	VAL
1	FA	574	ASN
1	FA	575	LYS
1	FA	576	LYS
1	FA	577	VAL
1	FA	581	ILE
1	FA	582	LYS
1	FA	583	ASN
1	FA	590	ASN
1	FA	594	THR
1	FA	595	LEU
1	FA	596	HIS
1	FA	599	SER
1	FA	613	THR
1	FA	621	THR
1	FA	627	ASP
1	FA	637	PHE
1	FA	648	LEU
1	FA	653	THR
1	FA	659	THR
1	FA	666	VAL
1	FA	670	ILE
1	FA	671	GLN
1	FA	675	SER
1	FA	678	VAL
1	FA	679	TRP
1	FA	684	ASP
1	FA	688	THR
1	FA	689	ARG
1	FA	703	GLU
1	FA	706	HIS
1	FA	709	ARG
1	FA	714	THR
1	FA	715	LEU

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Mol	Chain	Res	Type
1	FA	718	THR
1	FA	719	ILE
1	FA	723	TYR
1	FA	727	THR
1	FA	732	ILE
1	FA	736	LEU
1	FA	743	ASP
1	FA	744	MET
1	FA	748	ASN
1	FA	750	ILE
1	FA	769	VAL
1	FA	772	LYS
1	FA	773	ASP
1	FA	783	LYS
1	FA	789	SER
1	FA	804	GLU
1	FA	805	VAL
1	FA	809	VAL
1	FA	816	LEU
1	FA	821	ILE
1	FA	822	THR
1	FA	830	MET
1	FA	831	ASP
1	FA	832	ASP
1	FA	833	LEU
1	FA	836	THR
1	FA	856	GLU
1	FA	862	THR
1	FA	876	LEU
1	FA	878	ARG
1	FA	886	ASN
1	FA	889	SER
1	FA	892	LEU
1	FA	896	THR
1	FA	909	SER
1	FA	917	MET
1	FA	922	CYS
1	FA	924	SER
1	FA	945	CYS
1	FA	952	LEU
1	FA	955	ARG
1	FA	956	ARG

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Mol	Chain	Res	Type
1	FA	959	VAL
1	FA	964	LYS
1	FA	966	LEU
1	FA	973	GLU
1	FA	983	LYS
1	FA	985	ARG
1	FA	986	PHE
1	FA	987	TYR
1	FA	998	HIS
1	FA	1003	ARG
1	FA	1004	GLU
1	FA	1013	THR
1	FA	1015	ARG
1	FA	1019	LEU
1	FA	1021	ARG
1	FA	1023	LEU
1	FA	1033	SER
1	FA	1045	LEU
1	FA	1049	MET
1	FA	1053	ASP
1	FA	1057	ILE
1	FA	1072	ASN
1	FA	1076	LEU
1	FA	1083	SER
1	FA	1085	LEU
1	FA	1086	ILE
1	FA	1087	GLU
1	FA	1096	LYS
1	FA	1102	LEU
1	FA	1104	TYR
1	FA	1111	GLU
1	FA	1117	SER
1	FA	1118	VAL
1	FA	1123	VAL
1	FA	1135	SER
1	FA	1137	SER
1	FA	1146	SER
1	FA	1158	SER
1	FA	1159	ASP
1	FA	1169	LEU
1	FA	1173	LYS
1	FA	1175	MET

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Mol	Chain	Res	Type
1	FA	1192	SER
1	FA	1199	GLN
1	FA	1202	LEU
1	FA	1214	ASN
1	FA	1217	LEU
1	FA	1222	LEU
1	FA	1227	MET
1	FA	1235	THR
1	FA	1239	THR
1	FA	1242	ILE
1	FA	1243	TRP
1	FA	1245	ASP
1	FA	1247	SER
1	FA	1248	ASP
1	FA	1250	GLN
1	FA	1260	LYS
1	FA	1262	LEU
1	FA	1264	SER
1	FA	1267	ILE
1	FA	1271	ILE
1	FA	1273	THR
1	FA	1275	THR
1	FA	1276	THR
1	FA	1288	ARG
1	FA	1289	SER
1	FA	1292	ILE
1	FA	1294	MET
1	FA	1298	ASP
1	FA	1303	SER
1	FA	1304	GLU
1	FA	1310	LYS
1	FA	1314	GLN
1	FA	1318	SER
1	FA	1324	LEU
1	FA	1325	LEU
1	FA	1326	GLU
1	FA	1343	ASP
1	FA	1344	ILE
1	FA	1437	ASN
1	FA	1439	MET
1	FA	1440	ASN
1	FA	1441	LYS

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Mol	Chain	Res	Type
1	FA	1442	VAL
1	FA	1444	ARG
1	FA	1452	SER
1	FA	1453	HIS
1	FA	1458	THR
1	FA	1459	LYS
1	FA	1465	GLU
1	FA	1466	SER
1	FA	1468	LYS
1	FA	1474	LEU
1	FA	1476	LEU
1	FA	1481	GLU
1	FA	1485	MET
1	FA	1501	ILE
1	FA	1503	HIS
1	FA	1505	ASP
1	FA	1506	ARG
1	FA	1513	GLU
1	FA	1514	ASN
1	FA	1519	LEU
1	FA	1529	MET
1	FA	1542	THR
1	FA	1543	SER
1	FA	1546	VAL
1	FA	1559	ARG
1	FA	1561	THR
1	FA	1562	ILE
1	FA	1566	ILE
1	FA	1568	ASN
1	FA	1583	ASP
1	FA	1584	LEU
1	FA	1585	ILE
1	FA	1590	THR
1	FA	1595	TYR
1	FA	1603	MET
1	FA	1607	THR
1	FA	1609	SER
1	FA	1613	MET
1	FA	1615	TYR
1	FA	1619	CYS
1	FA	1623	THR
1	FA	1628	ASP

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Mol	Chain	Res	Type
1	FA	1629	ASN
1	FA	1632	GLU
1	FA	1633	GLN
1	FA	1635	ASP
1	FA	1638	SER
1	FA	1647	ASN
1	FA	1649	VAL
1	FA	1656	VAL
2	FB	12	ARG
2	FB	21	ARG
2	FB	22	GLU
2	FB	26	ILE
2	FB	33	SER
2	FB	39	GLN
2	FB	53	THR
2	FB	57	ASP
2	FB	65	VAL
2	FB	66	LYS
2	FB	68	ILE
2	FB	73	ILE
2	FB	74	PHE
2	FB	77	LYS
2	FB	93	ASN
2	FB	96	SER
2	FB	98	SER
2	FB	101	GLN
2	FB	103	SER
2	FB	109	SER
2	FB	110	ASN
2	FB	117	VAL
2	FB	120	LYS
2	FB	124	SER
2	FB	130	LEU
2	FB	134	ARG
2	FB	137	LEU
2	FB	150	GLU
2	FB	151	ASN
2	FB	164	MET
2	FB	170	CYS
2	FB	190	ILE
2	FB	201	LYS
2	FB	202	LEU

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Mol	Chain	Res	Type
2	FB	203	ILE
2	FB	204	ARG
2	FB	206	LEU
2	FB	207	ILE
2	FB	212	ASN
2	FB	217	ILE
2	FB	228	SER
2	FB	231	HIS
2	FB	237	ARG
2	FB	238	SER
2	FB	244	THR
2	FB	245	SER
2	FB	247	THR
2	FB	260	PHE
2	FB	295	ASN
2	FB	306	LEU
2	FB	315	LYS
2	FB	323	ARG
2	FB	328	GLN
2	FB	343	ASP
2	FB	347	LEU
2	FB	351	GLN
2	FB	357	ILE
2	FB	365	ASP
2	FB	377	MET
2	FB	379	ARG
2	FB	395	ASP
2	FB	397	THR
2	FB	398	GLN
2	FB	403	LEU
2	FB	404	LEU
2	FB	409	TYR
2	FB	413	LEU
2	FB	422	GLN
2	FB	425	ILE
2	FB	434	ARG
2	FB	452	ARG
2	FB	454	ASN
2	FB	460	LYS
2	FB	463	TYR
2	FB	472	SER
2	FB	474	SER

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Mol	Chain	Res	Type
2	FB	476	LEU
2	FB	477	ASP
2	FB	479	GLN
2	FB	497	ILE
2	FB	498	SER
2	FB	504	HIS
2	FB	505	ARG
2	FB	507	SER
2	FB	519	LYS
2	FB	520	LEU
2	FB	521	LEU
2	FB	523	GLU
2	FB	537	SER
2	FB	541	LEU
2	FB	543	ASN
2	FB	547	HIS
2	FB	577	PHE
2	FB	583	LEU
2	FB	585	CYS
2	FB	593	ILE
2	FB	604	ILE
2	FB	616	LYS
2	FB	617	THR
2	FB	622	ILE
2	FB	624	LEU
2	FB	636	GLN
2	FB	642	LEU
2	FB	653	VAL
2	FB	654	ARG
2	FB	658	LEU
2	FB	660	LYS
2	FB	661	GLU
2	FB	663	ILE
2	FB	667	PHE
2	FB	670	VAL
2	FB	674	ILE
2	FB	683	ASN
2	FB	687	THR
2	FB	698	SER
2	FB	699	ILE
2	FB	703	LEU
2	FB	711	GLN

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Mol	Chain	Res	Type
2	FB	714	ARG
2	FB	716	MET
2	FB	724	GLN
2	FB	725	THR
2	FB	733	LEU
2	FB	737	SER
2	FB	738	ASP
2	FB	751	ILE
2	FB	752	VAL
2	FB	756	LEU
2	FB	762	MET
2	FB	773	VAL
2	FB	777	SER
2	FB	782	ASP
2	FB	783	MET
2	FB	785	ASP
2	FB	787	MET
2	FB	798	PHE
2	FB	802	THR
2	FB	806	THR
2	FB	808	LYS
2	FB	809	VAL
2	FB	814	ASN
2	FB	823	GLN
2	FB	829	ASN
2	FB	830	ASP
2	FB	833	PRO
2	FB	835	GLU
2	FB	837	LEU
2	FB	838	GLU
2	FB	839	LYS
2	FB	840	LEU
2	FB	842	GLU
2	FB	843	ASP
2	FB	845	LEU
2	FB	858	ILE
2	FB	865	THR
2	FB	870	LYS
2	FB	871	ILE
2	FB	873	THR
2	FB	876	SER
2	FB	882	ILE

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Mol	Chain	Res	Type
2	FB	883	GLU
2	FB	886	ASN
2	FB	887	LEU
2	FB	892	SER
2	FB	893	ASN
2	FB	895	PHE
2	FB	896	GLN
2	FB	897	GLU
2	FB	898	LEU
2	FB	903	ILE
2	FB	904	LYS
2	FB	905	TYR
2	FB	907	ILE
2	FB	910	THR
2	FB	919	SER
2	FB	927	CYS
2	FB	944	GLN
2	FB	947	ILE
2	FB	949	ILE
2	FB	958	MET
2	FB	960	ILE
2	FB	962	MET
2	FB	965	GLU
2	FB	967	LEU
2	FB	977	ILE
2	FB	985	ILE
2	FB	988	GLU
2	FB	991	THR
2	FB	999	GLN
2	FB	1015	SER
2	FB	1018	THR
2	FB	1026	ILE
2	FB	1027	TYR
2	FB	1028	VAL
2	FB	1030	VAL
2	FB	1031	VAL
2	FB	1033	TYR
2	FB	1034	GLN
2	FB	1036	LEU
2	FB	1040	VAL
2	FB	1043	LYS
2	FB	1044	PHE

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Mol	Chain	Res	Type
2	FB	1045	GLN
2	FB	1047	ARG
2	FB	1058	GLN
2	FB	1070	ARG
2	FB	1075	GLU
2	FB	1077	ASP
2	FB	1085	SER
2	FB	1091	ARG
2	FB	1092	LEU
2	FB	1093	LEU
2	FB	1094	ASN
2	FB	1102	SER
2	FB	1103	VAL
2	FB	1109	SER
2	FB	1110	ILE
2	FB	1111	LEU
2	FB	1112	THR
2	FB	1119	ARG
2	FB	1120	ILE
2	FB	1127	CYS
2	FB	1136	GLU
2	FB	1140	LYS
2	FB	1142	LEU
2	FB	1150	LYS
2	FB	1151	ILE
2	FB	1153	ILE
2	FB	1156	SER
2	FB	1157	GLN
2	FB	1163	GLN
2	FB	1168	VAL
2	FB	1173	THR
2	FB	1174	THR
2	FB	1181	VAL
2	FB	1185	LEU
2	FB	1189	LEU
2	FB	1190	SER
2	FB	1195	ARG
2	FB	1198	TYR
2	FB	1201	GLU
3	FC	32	ASN
3	FC	45	SER
3	FC	48	ASP

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Mol	Chain	Res	Type
3	FC	51	GLU
3	FC	57	ILE
3	FC	59	ILE
3	FC	61	THR
3	FC	68	ARG
3	FC	69	ARG
3	FC	71	MET
3	FC	78	VAL
3	FC	82	TYR
3	FC	86	PHE
3	FC	97	LEU
3	FC	101	ILE
3	FC	118	SER
3	FC	122	ASP
3	FC	128	ASP
3	FC	129	GLU
3	FC	131	THR
3	FC	132	ILE
3	FC	136	LEU
3	FC	139	LYS
3	FC	151	THR
3	FC	168	LYS
3	FC	177	THR
3	FC	193	LEU
3	FC	196	LEU
3	FC	202	ILE
3	FC	204	LEU
3	FC	208	CYS
3	FC	209	ILE
3	FC	210	LEU
3	FC	222	VAL
3	FC	224	THR
3	FC	226	SER
3	FC	228	ARG
3	FC	235	ILE
3	FC	237	GLN
3	FC	262	SER
3	FC	263	ASP
3	FC	264	GLU
3	FC	274	THR
3	FC	277	ARG
3	FC	287	ASP

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Mol	Chain	Res	Type
3	FC	289	VAL
3	FC	291	LEU
3	FC	303	GLU
3	FC	324	LYS
3	FC	334	THR
4	FD	12	THR
4	FD	14	THR
4	FD	20	VAL
4	FD	82	LEU
4	FD	87	SER
4	FD	88	GLN
4	FD	94	ARG
4	FD	99	LEU
5	FE	4	GLU
5	FE	6	GLU
5	FE	8	ASN
5	FE	10	SER
5	FE	31	THR
5	FE	34	GLU
5	FE	41	ASP
5	FE	57	MET
5	FE	60	PHE
5	FE	61	GLN
5	FE	70	SER
5	FE	71	LYS
5	FE	78	LEU
5	FE	81	GLU
5	FE	90	VAL
5	FE	92	THR
5	FE	93	MET
5	FE	106	GLN
5	FE	107	THR
5	FE	123	LEU
5	FE	126	SER
5	FE	127	ILE
5	FE	131	THR
5	FE	136	ASN
5	FE	141	VAL
5	FE	144	ILE
5	FE	148	GLU
5	FE	150	VAL
5	FE	153	HIS

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Mol	Chain	Res	Type
5	FE	166	LYS
5	FE	172	GLU
5	FE	173	SER
5	FE	175	LEU
5	FE	177	ARG
5	FE	178	ILE
5	FE	186	LEU
5	FE	192	ARG
5	FE	196	VAL
5	FE	202	SER
5	FE	207	ARG
5	FE	213	ILE
6	FF	56	GLU
6	FF	59	GLN
6	FF	77	ASP
6	FF	78	GLN
6	FF	82	THR
6	FF	93	ILE
6	FF	96	THR
6	FF	99	LEU
6	FF	109	VAL
6	FF	110	ASP
6	FF	118	LEU
6	FF	148	VAL
6	FF	149	GLU
6	FF	151	LEU
6	FF	152	ILE
6	FF	154	ASP
7	FG	10	ASN
7	FG	11	ARG
7	FG	15	ARG
7	FG	16	PHE
7	FG	20	HIS
7	FG	21	LYS
7	FG	29	ASP
7	FG	34	THR
7	FG	35	SER
7	FG	37	CYS
7	FG	38	ILE
7	FG	39	VAL
7	FG	45	LEU
7	FG	54	LEU

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Mol	Chain	Res	Type
7	FG	59	GLN
7	FG	64	GLN
7	FG	76	LYS
7	FG	77	VAL
7	FG	95	LEU
7	FG	97	LYS
7	FG	105	ILE
7	FG	106	LYS
7	FG	116	THR
7	FG	120	VAL
7	FG	122	LEU
7	FG	126	GLN
7	FG	128	GLN
7	FG	132	VAL
7	FG	139	ILE
7	FG	141	SER
7	FG	144	HIS
7	FG	147	LEU
7	FG	149	ILE
7	FG	164	VAL
7	FG	165	ASP
7	FG	169	VAL
7	FG	170	HIS
7	FG	172	ASP
7	FG	173	VAL
7	FG	174	GLU
7	FG	219	ASP
7	FG	221	ASN
7	FG	226	ASP
7	FG	232	THR
7	FG	239	THR
7	FG	243	VAL
7	FG	248	THR
7	FG	249	LEU
7	FG	250	ILE
7	FG	251	SER
8	FH	5	LEU
8	FH	7	ASP
8	FH	8	ASP
8	FH	9	ILE
8	FH	13	SER
8	FH	25	ARG

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Mol	Chain	Res	Type
8	FH	30	SER
8	FH	34	ASP
8	FH	35	GLN
8	FH	42	ILE
8	FH	46	LEU
8	FH	53	ASP
8	FH	54	SER
8	FH	55	LEU
8	FH	59	ILE
8	FH	63	LEU
8	FH	76	THR
8	FH	80	ARG
8	FH	83	GLN
8	FH	87	ARG
8	FH	94	ASP
8	FH	108	SER
8	FH	112	ILE
8	FH	114	VAL
8	FH	121	LEU
8	FH	122	LEU
8	FH	123	MET
8	FH	124	ARG
8	FH	133	ASN
8	FH	138	GLU
8	FH	143	LEU
8	FH	145	ARG
9	FI	3	VAL
9	FI	8	ILE
9	FI	11	LEU
9	FI	15	ASP
9	FI	26	SER
9	FI	31	SER
9	FI	32	GLN
9	FI	42	PHE
9	FI	45	LEU
9	FI	47	VAL
9	FI	49	THR
9	FI	53	ASP
9	FI	66	VAL
9	FI	68	LYS
9	FI	72	LYS
9	FI	73	LYS

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Mol	Chain	Res	Type
9	FI	93	GLU
9	FI	94	MET
9	FI	97	HIS
9	FI	98	THR
9	FI	100	GLN
9	FI	102	ARG
9	FI	106	GLU
9	FI	110	VAL
9	FI	111	PHE
9	FI	120	LYS
9	FI	121	PHE
9	FI	122	ARG
9	FI	123	THR
10	FJ	1	MET
10	FJ	12	LYS
10	FJ	13	VAL
10	FJ	14	VAL
10	FJ	20	SER
10	FJ	23	ASN
10	FJ	27	GLU
10	FJ	34	THR
10	FJ	38	ARG
10	FJ	44	TYR
10	FJ	48	ARG
10	FJ	66	LEU
10	FJ	67	GLU
10	FJ	68	LYS
11	FK	45	GLU
11	FK	51	THR
11	FK	56	GLU
11	FK	59	THR
11	FK	62	SER
11	FK	63	PHE
11	FK	65	ILE
11	FK	68	GLU
11	FK	72	LEU
11	FK	77	ARG
11	FK	89	CYS
11	FK	93	ILE
11	FK	98	GLU
11	FK	99	ASN
11	FK	107	THR

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Mol	Chain	Res	Type
11	FK	110	GLU
11	FK	111	THR
11	FK	112	THR
11	FK	117	LEU
11	FK	123	ASP
11	FK	125	MET
11	FK	128	CYS
11	FK	134	LYS
11	FK	139	ILE
11	FK	142	MET
12	FL	27	LEU
12	FL	35	SER
12	FL	36	SER
12	FL	38	LEU
12	FL	49	LYS
12	FL	53	HIS
12	FL	55	ILE
12	FL	57	LEU
12	FL	58	LYS
12	FL	65	VAL
12	FL	66	GLN
12	FL	68	GLU
13	FM	7	VAL
13	FM	9	GLU
13	FM	10	ILE
13	FM	12	ILE
13	FM	17	ASP
13	FM	18	GLN
13	FM	25	SER
13	FM	28	LYS
13	FM	36	THR
13	FM	42	LYS
13	FM	44	LYS
13	FM	48	LYS
13	FM	54	HIS
13	FM	56	GLU
13	FM	57	ASN
13	FM	58	GLU
13	FM	65	TYR
13	FM	68	SER
13	FM	70	SER
13	FM	92	LYS

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Mol	Chain	Res	Type
13	FM	95	VAL
13	FM	98	SER
13	FM	100	VAL
13	FM	104	SER
13	FM	109	ARG
14	FN	25	ILE
14	FN	37	ASN
14	FN	40	LEU
14	FN	50	GLN
14	FN	56	ILE
14	FN	58	PHE
14	FN	64	ILE
14	FN	70	LEU
14	FN	75	GLU
14	FN	78	THR
14	FN	79	THR
14	FN	80	MET
14	FN	81	THR
14	FN	85	HIS
14	FN	90	MET
14	FN	98	SER
14	FN	102	ASP
14	FN	106	ASN
14	FN	107	MET
14	FN	108	THR
14	FN	118	SER
14	FN	123	SER
14	FN	124	THR
14	FN	126	LYS
14	FN	127	ASP
14	FN	134	ASP
14	FN	138	SER
14	FN	139	VAL
14	FN	141	GLU
14	FN	148	ILE
14	FN	151	SER
14	FN	152	LYS
14	FN	157	ARG
14	FN	162	LYS
14	FN	163	VAL
14	FN	171	PHE
7	FO	265	SER

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Mol	Chain	Res	Type
7	FO	268	GLU
7	FO	269	SER
7	FO	272	ILE
7	FO	274	SER
7	FO	275	ASN
7	FO	277	LYS
7	FO	279	VAL
7	FO	280	PHE
7	FO	285	SER
7	FO	290	GLU
7	FO	293	LYS
7	FO	300	VAL
7	FO	302	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (426) such sidechains are listed below:

Mol	Chain	Res	Type
1	AA	26	ASN
1	AA	43	HIS
1	AA	76	GLN
1	AA	470	HIS
1	AA	537	GLN
1	AA	553	GLN
1	AA	590	ASN
1	AA	596	HIS
1	AA	639	GLN
1	AA	649	ASN
1	AA	748	ASN
1	AA	1141	GLN
1	AA	1250	GLN
1	AA	1293	HIS
1	AA	1299	ASN
1	AA	1443	GLN
1	AA	1447	GLN
1	AA	1514	ASN
1	AA	1544	ASN
1	AA	1620	GLN
1	AA	1633	GLN
1	AA	1647	ASN
2	AB	39	GLN
2	AB	45	HIS
2	AB	128	GLN

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Mol	Chain	Res	Type
2	AB	351	GLN
2	AB	393	ASN
2	AB	422	GLN
2	AB	427	GLN
2	AB	469	ASN
2	AB	473	GLN
2	AB	543	ASN
2	AB	555	GLN
2	AB	679	GLN
2	AB	720	GLN
2	AB	824	HIS
2	AB	886	ASN
2	AB	921	HIS
2	AB	944	GLN
2	AB	952	HIS
2	AB	1053	ASN
2	AB	1082	HIS
2	AB	1115	GLN
2	AB	1171	ASN
3	AC	32	ASN
3	AC	53	ASN
3	AC	137	ASN
4	AD	26	GLN
5	AE	5	ASN
5	AE	106	GLN
5	AE	179	GLN
6	AF	60	GLN
6	AF	104	ASN
7	AG	59	GLN
7	AG	64	GLN
7	AG	67	ASN
7	AG	150	HIS
8	AH	3	ASN
9	AI	97	HIS
9	AI	124	ASN
10	AJ	53	HIS
11	AK	64	GLN
11	AK	102	ASN
11	AK	118	GLN
13	AM	16	GLN
13	AM	82	ASN
14	AN	37	ASN

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Mol	Chain	Res	Type
14	AN	132	GLN
14	AN	170	HIS
7	AO	275	ASN
7	AO	288	ASN
7	AO	304	ASN
1	BA	43	HIS
1	BA	76	GLN
1	BA	407	GLN
1	BA	537	GLN
1	BA	596	HIS
1	BA	639	GLN
1	BA	748	ASN
1	BA	767	ASN
1	BA	1116	GLN
1	BA	1141	GLN
1	BA	1250	GLN
1	BA	1293	HIS
1	BA	1299	ASN
1	BA	1447	GLN
1	BA	1514	ASN
1	BA	1544	ASN
1	BA	1633	GLN
1	BA	1647	ASN
2	BB	39	GLN
2	BB	45	HIS
2	BB	50	ASN
2	BB	93	ASN
2	BB	128	GLN
2	BB	351	GLN
2	BB	393	ASN
2	BB	422	GLN
2	BB	427	GLN
2	BB	469	ASN
2	BB	473	GLN
2	BB	499	HIS
2	BB	543	ASN
2	BB	555	GLN
2	BB	720	GLN
2	BB	824	HIS
2	BB	886	ASN
2	BB	921	HIS
2	BB	944	GLN

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Mol	Chain	Res	Type
2	BB	1053	ASN
2	BB	1082	HIS
2	BB	1115	GLN
2	BB	1171	ASN
3	BC	32	ASN
3	BC	53	ASN
3	BC	137	ASN
4	BD	26	GLN
5	BE	5	ASN
5	BE	147	HIS
5	BE	179	GLN
6	BF	60	GLN
6	BF	104	ASN
7	BG	67	ASN
7	BG	150	HIS
8	BH	3	ASN
9	BI	88	GLN
10	BJ	53	HIS
11	BK	64	GLN
11	BK	102	ASN
13	BM	16	GLN
13	BM	57	ASN
13	BM	82	ASN
14	BN	37	ASN
14	BN	132	GLN
1	CA	43	HIS
1	CA	76	GLN
1	CA	431	GLN
1	CA	435	ASN
1	CA	537	GLN
1	CA	596	HIS
1	CA	649	ASN
1	CA	656	GLN
1	CA	671	GLN
1	CA	748	ASN
1	CA	767	ASN
1	CA	880	GLN
1	CA	1081	ASN
1	CA	1141	GLN
1	CA	1250	GLN
1	CA	1293	HIS
1	CA	1299	ASN

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Mol	Chain	Res	Type
1	CA	1443	GLN
1	CA	1447	GLN
1	CA	1620	GLN
1	CA	1633	GLN
1	CA	1647	ASN
2	CB	39	GLN
2	CB	45	HIS
2	CB	251	HIS
2	CB	393	ASN
2	CB	422	GLN
2	CB	427	GLN
2	CB	469	ASN
2	CB	473	GLN
2	CB	499	HIS
2	CB	543	ASN
2	CB	555	GLN
2	CB	824	HIS
2	CB	886	ASN
2	CB	893	ASN
2	CB	921	HIS
2	CB	944	GLN
2	CB	1053	ASN
2	CB	1115	GLN
2	CB	1171	ASN
3	CC	32	ASN
3	CC	53	ASN
3	CC	137	ASN
3	CC	200	GLN
4	CD	26	GLN
5	CE	5	ASN
5	CE	106	GLN
5	CE	179	GLN
6	CF	60	GLN
6	CF	104	ASN
7	CG	26	ASN
7	CG	59	GLN
7	CG	67	ASN
7	CG	150	HIS
8	CH	3	ASN
8	CH	133	ASN
9	CI	97	HIS
9	CI	124	ASN

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Mol	Chain	Res	Type
10	CJ	53	HIS
11	CK	64	GLN
11	CK	102	ASN
11	CK	118	GLN
13	CM	16	GLN
13	CM	57	ASN
13	CM	82	ASN
14	CN	37	ASN
14	CN	132	GLN
7	CO	292	HIS
1	DA	76	GLN
1	DA	179	ASN
1	DA	537	GLN
1	DA	538	ASN
1	DA	596	HIS
1	DA	617	HIS
1	DA	649	ASN
1	DA	656	GLN
1	DA	748	ASN
1	DA	767	ASN
1	DA	1141	GLN
1	DA	1250	GLN
1	DA	1293	HIS
1	DA	1299	ASN
1	DA	1447	GLN
1	DA	1514	ASN
1	DA	1544	ASN
1	DA	1620	GLN
1	DA	1633	GLN
1	DA	1647	ASN
2	DB	10	GLN
2	DB	39	GLN
2	DB	45	HIS
2	DB	93	ASN
2	DB	128	GLN
2	DB	351	GLN
2	DB	393	ASN
2	DB	422	GLN
2	DB	427	GLN
2	DB	469	ASN
2	DB	473	GLN
2	DB	543	ASN

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Mol	Chain	Res	Type
2	DB	555	GLN
2	DB	824	HIS
2	DB	886	ASN
2	DB	893	ASN
2	DB	921	HIS
2	DB	944	GLN
2	DB	952	HIS
2	DB	975	HIS
2	DB	1053	ASN
2	DB	1115	GLN
2	DB	1171	ASN
2	DB	1199	ASN
3	DC	32	ASN
3	DC	53	ASN
3	DC	137	ASN
3	DC	200	GLN
4	DD	26	GLN
4	DD	88	GLN
5	DE	5	ASN
5	DE	54	GLN
5	DE	99	HIS
5	DE	179	GLN
6	DF	60	GLN
6	DF	104	ASN
7	DG	26	ASN
7	DG	67	ASN
7	DG	150	HIS
8	DH	3	ASN
9	DI	97	HIS
9	DI	100	GLN
9	DI	124	ASN
10	DJ	53	HIS
11	DK	64	GLN
11	DK	102	ASN
11	DK	118	GLN
13	DM	16	GLN
13	DM	57	ASN
13	DM	82	ASN
14	DN	37	ASN
14	DN	50	GLN
14	DN	51	GLN
14	DN	132	GLN

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Mol	Chain	Res	Type
14	DN	170	HIS
7	DO	275	ASN
7	DO	304	ASN
1	EA	43	HIS
1	EA	76	GLN
1	EA	179	ASN
1	EA	407	GLN
1	EA	431	GLN
1	EA	435	ASN
1	EA	470	HIS
1	EA	537	GLN
1	EA	590	ASN
1	EA	596	HIS
1	EA	617	HIS
1	EA	639	GLN
1	EA	642	ASN
1	EA	649	ASN
1	EA	656	GLN
1	EA	671	GLN
1	EA	748	ASN
1	EA	767	ASN
1	EA	1141	GLN
1	EA	1250	GLN
1	EA	1293	HIS
1	EA	1299	ASN
1	EA	1443	GLN
1	EA	1447	GLN
1	EA	1514	ASN
1	EA	1620	GLN
1	EA	1633	GLN
1	EA	1647	ASN
2	EB	39	GLN
2	EB	45	HIS
2	EB	50	ASN
2	EB	251	HIS
2	EB	351	GLN
2	EB	393	ASN
2	EB	422	GLN
2	EB	427	GLN
2	EB	469	ASN
2	EB	473	GLN
2	EB	499	HIS

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Mol	Chain	Res	Type
2	EB	543	ASN
2	EB	555	GLN
2	EB	824	HIS
2	EB	886	ASN
2	EB	893	ASN
2	EB	921	HIS
2	EB	944	GLN
2	EB	1053	ASN
2	EB	1115	GLN
2	EB	1171	ASN
3	EC	32	ASN
3	EC	53	ASN
3	EC	137	ASN
4	ED	26	GLN
4	ED	88	GLN
5	EE	5	ASN
5	EE	99	HIS
5	EE	179	GLN
6	EF	60	GLN
6	EF	104	ASN
7	EG	59	GLN
7	EG	64	GLN
7	EG	67	ASN
8	EH	3	ASN
8	EH	133	ASN
9	EI	88	GLN
9	EI	97	HIS
9	EI	124	ASN
10	EJ	53	HIS
11	EK	64	GLN
11	EK	102	ASN
11	EK	118	GLN
13	EM	16	GLN
13	EM	57	ASN
13	EM	82	ASN
14	EN	37	ASN
14	EN	132	GLN
7	EO	304	ASN
1	FA	43	HIS
1	FA	76	GLN
1	FA	470	HIS
1	FA	537	GLN

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Mol	Chain	Res	Type
1	FA	538	ASN
1	FA	590	ASN
1	FA	596	HIS
1	FA	617	HIS
1	FA	639	GLN
1	FA	649	ASN
1	FA	656	GLN
1	FA	748	ASN
1	FA	767	ASN
1	FA	1062	HIS
1	FA	1141	GLN
1	FA	1250	GLN
1	FA	1293	HIS
1	FA	1443	GLN
1	FA	1447	GLN
1	FA	1514	ASN
1	FA	1633	GLN
1	FA	1647	ASN
2	FB	39	GLN
2	FB	45	HIS
2	FB	93	ASN
2	FB	351	GLN
2	FB	393	ASN
2	FB	422	GLN
2	FB	427	GLN
2	FB	469	ASN
2	FB	473	GLN
2	FB	543	ASN
2	FB	555	GLN
2	FB	824	HIS
2	FB	886	ASN
2	FB	893	ASN
2	FB	896	GLN
2	FB	921	HIS
2	FB	944	GLN
2	FB	1053	ASN
2	FB	1082	HIS
2	FB	1115	GLN
2	FB	1171	ASN
2	FB	1199	ASN
3	FC	32	ASN
3	FC	53	ASN

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Mol	Chain	Res	Type
3	FC	137	ASN
4	FD	26	GLN
5	FE	5	ASN
5	FE	106	GLN
5	FE	179	GLN
6	FF	60	GLN
6	FF	104	ASN
7	FG	64	GLN
7	FG	67	ASN
7	FG	150	HIS
8	FH	3	ASN
9	FI	97	HIS
9	FI	124	ASN
10	FJ	53	HIS
11	FK	64	GLN
11	FK	102	ASN
11	FK	118	GLN
13	FM	16	GLN
13	FM	57	ASN
13	FM	82	ASN
14	FN	37	ASN
14	FN	132	GLN
7	FO	275	ASN

### 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 monosaccharides in this entry.

### 5.6 Ligand geometry ⓘ

Of 42 ligands modelled in this entry, 42 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	EA	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	EA	1261:VAL	C	1262:LEU	N	2.28

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
1	AA	1484/1664 (89%)	-0.15	10 (0%) 87 82	174, 197, 249, 308	0
1	BA	1462/1664 (87%)	0.05	18 (1%) 79 70	242, 262, 287, 314	0
1	CA	1483/1664 (89%)	-0.24	7 (0%) 91 85	143, 164, 201, 253	0
1	DA	1483/1664 (89%)	-0.25	3 (0%) 95 93	147, 170, 215, 278	0
1	EA	1484/1664 (89%)	-0.24	4 (0%) 94 90	149, 171, 207, 250	0
1	FA	1484/1664 (89%)	-0.28	2 (0%) 95 94	142, 160, 203, 262	0
2	AB	1154/1203 (95%)	-0.17	5 (0%) 92 87	179, 212, 250, 276	0
2	BB	1153/1203 (95%)	-0.09	9 (0%) 86 79	233, 245, 265, 279	0
2	CB	1170/1203 (97%)	-0.28	4 (0%) 94 90	144, 169, 196, 227	0
2	DB	1165/1203 (96%)	-0.22	2 (0%) 95 93	148, 169, 191, 222	0
2	EB	1164/1203 (96%)	-0.33	0 100 100	148, 162, 188, 225	0
2	FB	1165/1203 (96%)	-0.26	1 (0%) 95 94	142, 164, 191, 212	0
3	AC	304/335 (90%)	-0.07	0 100 100	190, 209, 237, 253	0
3	BC	304/335 (90%)	0.20	7 (2%) 60 52	248, 278, 311, 332	0
3	CC	304/335 (90%)	-0.19	0 100 100	162, 175, 191, 207	0
3	DC	304/335 (90%)	-0.14	2 (0%) 87 82	167, 182, 197, 206	0
3	EC	304/335 (90%)	-0.24	0 100 100	158, 173, 190, 203	0
3	FC	304/335 (90%)	-0.21	0 100 100	154, 170, 187, 198	0
4	AD	58/137 (42%)	-0.03	1 (1%) 70 61	207, 243, 266, 270	0
4	BD	58/137 (42%)	0.44	3 (5%) 27 26	262, 281, 301, 303	0
4	CD	58/137 (42%)	-0.24	1 (1%) 70 61	171, 184, 195, 200	0
4	DD	58/137 (42%)	-0.18	1 (1%) 70 61	177, 190, 204, 207	0
4	ED	58/137 (42%)	-0.28	1 (1%) 70 61	185, 202, 214, 215	0
4	FD	58/137 (42%)	-0.26	1 (1%) 70 61	162, 186, 211, 212	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
5	AE	215/215 (100%)	-0.42	1 (0%) 91 85	186, 214, 234, 243	0
5	BE	215/215 (100%)	0.05	2 (0%) 84 77	255, 281, 296, 307	0
5	CE	215/215 (100%)	-0.52	0 100 100	152, 178, 194, 206	0
5	DE	215/215 (100%)	-0.37	0 100 100	156, 187, 209, 222	0
5	EE	215/215 (100%)	-0.38	0 100 100	158, 189, 211, 228	0
5	FE	215/215 (100%)	-0.43	0 100 100	149, 179, 199, 212	0
6	AF	98/155 (63%)	-0.37	0 100 100	181, 190, 240, 243	0
6	BF	98/155 (63%)	-0.09	0 100 100	251, 265, 299, 302	0
6	CF	99/155 (63%)	-0.36	0 100 100	148, 157, 185, 188	0
6	DF	99/155 (63%)	-0.36	0 100 100	152, 162, 201, 207	0
6	EF	99/155 (63%)	-0.44	0 100 100	154, 168, 211, 214	0
6	FF	99/155 (63%)	-0.34	0 100 100	144, 152, 209, 213	0
7	AG	202/326 (61%)	-0.02	2 (0%) 82 75	199, 249, 286, 305	0
7	AO	52/326 (15%)	0.16	1 (1%) 66 58	209, 235, 287, 294	0
7	BG	195/326 (59%)	0.42	9 (4%) 32 29	259, 290, 311, 319	0
7	BO	51/326 (15%)	0.00	1 (1%) 65 57	244, 259, 301, 312	0
7	CG	202/326 (61%)	-0.30	0 100 100	171, 186, 215, 221	0
7	CO	50/326 (15%)	-0.05	1 (2%) 65 57	159, 187, 235, 247	0
7	DG	202/326 (61%)	-0.00	1 (0%) 91 85	165, 205, 241, 251	0
7	DO	52/326 (15%)	0.03	1 (1%) 66 58	167, 197, 258, 276	0
7	EG	202/326 (61%)	-0.07	1 (0%) 91 85	181, 209, 227, 234	0
7	EO	52/326 (15%)	-0.24	0 100 100	168, 190, 233, 246	0
7	FG	202/326 (61%)	-0.01	0 100 100	158, 197, 226, 232	0
7	FO	52/326 (15%)	-0.25	0 100 100	163, 191, 241, 257	0
8	AH	132/146 (90%)	-0.28	0 100 100	180, 190, 197, 206	0
8	BH	131/146 (89%)	0.46	1 (0%) 86 79	282, 313, 328, 335	0
8	CH	131/146 (89%)	-0.16	0 100 100	162, 175, 183, 187	0
8	DH	134/146 (91%)	-0.25	0 100 100	167, 182, 196, 231	0
8	EH	134/146 (91%)	-0.21	0 100 100	164, 185, 201, 209	0
8	FH	134/146 (91%)	-0.18	0 100 100	151, 162, 173, 203	0
9	AI	124/125 (99%)	0.08	0 100 100	189, 209, 254, 260	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
9	BI	97/125 (77%)	0.22	1 (1%) 82 75	254, 264, 300, 307	0
9	CI	124/125 (99%)	-0.09	0 100 100	162, 179, 201, 206	0
9	DI	124/125 (99%)	-0.04	0 100 100	166, 187, 207, 214	0
9	EI	117/125 (93%)	-0.16	0 100 100	160, 177, 203, 235	0
9	FI	124/125 (99%)	-0.19	0 100 100	159, 181, 203, 211	0
10	AJ	68/70 (97%)	-0.24	0 100 100	194, 209, 227, 240	0
10	BJ	69/70 (98%)	0.01	2 (2%) 51 43	245, 263, 275, 279	0
10	CJ	68/70 (97%)	-0.31	0 100 100	162, 172, 183, 195	0
10	DJ	69/70 (98%)	-0.33	0 100 100	164, 174, 184, 191	0
10	EJ	68/70 (97%)	-0.42	0 100 100	155, 165, 177, 180	0
10	FJ	68/70 (97%)	-0.38	0 100 100	155, 165, 179, 186	0
11	AK	101/142 (71%)	-0.10	0 100 100	186, 193, 213, 220	0
11	BK	100/142 (70%)	0.03	0 100 100	259, 288, 305, 311	0
11	CK	101/142 (71%)	-0.23	0 100 100	157, 168, 182, 190	0
11	DK	101/142 (71%)	-0.36	0 100 100	161, 175, 190, 197	0
11	EK	100/142 (70%)	-0.38	0 100 100	154, 168, 182, 190	0
11	FK	100/142 (70%)	-0.41	0 100 100	150, 159, 174, 180	0
12	AL	44/70 (62%)	-0.04	0 100 100	201, 238, 253, 256	0
12	BL	44/70 (62%)	-0.08	0 100 100	241, 248, 255, 256	0
12	CL	44/70 (62%)	-0.28	0 100 100	163, 184, 192, 193	0
12	DL	44/70 (62%)	-0.17	0 100 100	167, 184, 191, 195	0
12	EL	44/70 (62%)	-0.40	0 100 100	158, 176, 188, 191	0
12	FL	44/70 (62%)	-0.28	0 100 100	159, 183, 193, 196	0
13	AM	109/415 (26%)	0.15	1 (0%) 84 77	228, 248, 259, 263	0
13	BM	109/415 (26%)	0.26	1 (0%) 84 77	247, 257, 278, 284	0
13	CM	109/415 (26%)	-0.12	1 (0%) 84 77	181, 196, 202, 205	0
13	DM	109/415 (26%)	0.09	1 (0%) 84 77	181, 197, 211, 218	0
13	EM	110/415 (26%)	-0.07	1 (0%) 84 77	173, 189, 198, 203	0
13	FM	110/415 (26%)	0.01	1 (0%) 84 77	177, 191, 198, 200	0
14	AN	142/233 (60%)	0.15	2 (1%) 75 66	194, 234, 266, 270	0
14	BN	143/233 (61%)	0.29	3 (2%) 63 55	254, 266, 283, 297	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å <sup>2</sup> )	Q<0.9
14	CN	143/233 (61%)	-0.24	0	100	100	166, 187, 208, 219	0
14	DN	145/233 (62%)	-0.22	0	100	100	167, 197, 213, 220	0
14	EN	144/233 (61%)	-0.35	0	100	100	160, 184, 203, 214	0
14	FN	145/233 (62%)	-0.27	0	100	100	157, 184, 204, 214	0
All	All	25720/33372 (77%)	-0.18	117 (0%)	91	85	142, 184, 273, 335	0

All (117) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
4	BD	12	THR	6.7
3	BC	184	VAL	3.6
1	BA	634	ASN	3.6
2	BB	441	LYS	3.5
3	BC	108	VAL	3.5
1	AA	249	THR	3.4
1	BA	1645	LYS	3.3
1	BA	317	SER	3.3
3	DC	265	ALA	3.2
7	DO	311	GLU	3.2
1	BA	496	GLY	3.2
4	BD	28	PRO	3.1
7	BG	84	TYR	3.1
13	AM	109	ARG	3.0
1	BA	442	LYS	3.0
13	BM	111	PRO	2.9
14	BN	64	ILE	2.8
2	AB	441	LYS	2.8
1	CA	110	LEU	2.8
1	AA	250	LYS	2.7
5	BE	37	LEU	2.7
2	BB	1065	ARG	2.7
2	BB	143	TRP	2.7
14	AN	114	GLU	2.7
1	CA	1460	TYR	2.7
7	BO	311	GLU	2.6
1	BA	239	PHE	2.6
7	CO	311	GLU	2.6
10	BJ	32	GLU	2.6
10	BJ	29	GLU	2.6
13	DM	111	PRO	2.5
1	DA	256	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
13	FM	111	PRO	2.5
3	DC	256	ILE	2.5
7	BG	97	LYS	2.5
1	CA	12	THR	2.5
1	BA	635	MET	2.5
1	EA	1461	ASN	2.5
14	AN	31	LYS	2.5
1	AA	118	TYR	2.4
14	BN	71	PRO	2.4
7	AG	215	GLY	2.4
1	BA	1011	VAL	2.4
4	CD	12	THR	2.4
4	DD	12	THR	2.4
1	BA	480	ALA	2.4
3	BC	233	ILE	2.4
1	BA	1012	LYS	2.4
4	BD	27	LEU	2.3
2	AB	154	GLU	2.3
7	EG	24	VAL	2.3
1	BA	1436	ASN	2.3
1	CA	1042	ASP	2.3
1	CA	230	ARG	2.3
8	BH	8	ASP	2.3
2	BB	747	GLY	2.3
14	BN	114	GLU	2.3
2	CB	440	PHE	2.3
7	BG	83	GLY	2.3
1	BA	232	LYS	2.3
2	CB	1060	VAL	2.3
1	BA	406	LEU	2.3
1	EA	1135	SER	2.2
5	AE	30	ILE	2.2
2	BB	767	ASN	2.2
7	BG	78	GLY	2.2
1	AA	12	THR	2.2
3	BC	107	LYS	2.2
2	DB	365	ASP	2.2
4	AD	12	THR	2.2
1	AA	1317	ILE	2.2
7	BG	77	VAL	2.2
3	BC	268	LYS	2.2
2	FB	365	ASP	2.2

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Mol	Chain	Res	Type	RSRZ
5	BE	83	CYS	2.2
1	EA	1011	VAL	2.2
2	BB	814	ASN	2.2
7	AG	142	ALA	2.2
1	AA	69	GLU	2.2
2	DB	1199	ASN	2.2
1	BA	636	HIS	2.2
1	BA	1230	SER	2.1
1	FA	1011	VAL	2.1
4	ED	12	THR	2.1
9	BI	85	LYS	2.1
1	CA	13	SER	2.1
1	CA	185	ARG	2.1
3	BC	37	LYS	2.1
2	BB	829	ASN	2.1
2	AB	143	TRP	2.1
1	AA	247	GLY	2.1
2	CB	1068	GLY	2.1
1	BA	251	ILE	2.1
1	FA	249	THR	2.1
7	BG	23	GLN	2.1
1	AA	1135	SER	2.1
3	BC	47	LEU	2.1
7	BG	82	LEU	2.1
1	BA	13	SER	2.1
1	BA	1342	PRO	2.1
1	DA	13	SER	2.1
13	EM	57	ASN	2.0
1	EA	1012	LYS	2.0
1	DA	710	SER	2.0
1	AA	248	PHE	2.0
4	FD	12	THR	2.0
2	BB	1021	GLU	2.0
7	BG	98	GLU	2.0
1	AA	1633	GLN	2.0
7	DG	226	ASP	2.0
13	CM	109	ARG	2.0
2	BB	471	VAL	2.0
7	AO	298	PRO	2.0
2	AB	827	PHE	2.0
2	AB	837	LEU	2.0
7	BG	96	SER	2.0

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Mol	Chain	Res	Type	RSRZ
2	CB	1061	LYS	2.0

## 6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

## 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
15	ZN	DI	3002	1/1	0.85	0.10	195,195,195,195	0
15	ZN	BJ	3001	1/1	0.88	0.15	267,267,267,267	0
15	ZN	BI	3002	1/1	0.90	0.31	311,311,311,311	0
15	ZN	BA	3002	1/1	0.91	0.16	283,283,283,283	0
15	ZN	AI	3001	1/1	0.92	0.05	247,247,247,247	0
15	ZN	AJ	3001	1/1	0.93	0.25	197,197,197,197	0
15	ZN	FA	3002	1/1	0.93	0.12	202,202,202,202	0
15	ZN	EA	3002	1/1	0.94	0.10	215,215,215,215	0
15	ZN	BA	3001	1/1	0.94	0.11	248,248,248,248	0
15	ZN	AI	3002	1/1	0.95	0.10	213,213,213,213	0
15	ZN	AA	3001	1/1	0.96	0.07	222,222,222,222	0
15	ZN	CA	3001	1/1	0.96	0.09	168,168,168,168	0
15	ZN	EI	3002	1/1	0.96	0.06	198,198,198,198	0
15	ZN	CA	3002	1/1	0.96	0.11	205,205,205,205	0
15	ZN	CI	3002	1/1	0.97	0.11	195,195,195,195	0
15	ZN	DA	3002	1/1	0.97	0.08	211,211,211,211	0
15	ZN	DB	3001	1/1	0.97	0.18	172,172,172,172	0
15	ZN	BL	3001	1/1	0.97	0.07	245,245,245,245	0
15	ZN	AB	3001	1/1	0.97	0.13	214,214,214,214	0
15	ZN	EB	3001	1/1	0.97	0.16	169,169,169,169	0
15	ZN	EI	3001	1/1	0.97	0.08	187,187,187,187	0
15	ZN	AA	3002	1/1	0.97	0.10	262,262,262,262	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
15	ZN	EL	3001	1/1	0.97	0.09	176,176,176,176	0
15	ZN	CI	3001	1/1	0.97	0.07	194,194,194,194	0
15	ZN	FB	3001	1/1	0.97	0.19	163,163,163,163	0
15	ZN	FI	3001	1/1	0.97	0.09	189,189,189,189	0
15	ZN	FL	3001	1/1	0.97	0.10	184,184,184,184	0
15	ZN	BB	3001	1/1	0.98	0.17	252,252,252,252	0
15	ZN	BI	3001	1/1	0.98	0.09	257,257,257,257	0
15	ZN	AL	3001	1/1	0.98	0.05	241,241,241,241	0
15	ZN	FA	3001	1/1	0.98	0.12	178,178,178,178	0
15	ZN	DJ	3001	1/1	0.98	0.22	167,167,167,167	0
15	ZN	EA	3001	1/1	0.98	0.16	171,171,171,171	0
15	ZN	CL	3001	1/1	0.98	0.07	185,185,185,185	0
15	ZN	FI	3002	1/1	0.98	0.07	190,190,190,190	0
15	ZN	DA	3001	1/1	0.98	0.11	177,177,177,177	0
15	ZN	EJ	3001	1/1	0.99	0.20	159,159,159,159	0
15	ZN	DL	3001	1/1	0.99	0.07	184,184,184,184	0
15	ZN	CB	3001	1/1	0.99	0.13	167,167,167,167	0
15	ZN	FJ	3001	1/1	0.99	0.15	157,157,157,157	0
15	ZN	CJ	3001	1/1	0.99	0.25	164,164,164,164	0
15	ZN	DI	3001	1/1	1.00	0.10	195,195,195,195	0

## 6.5 Other polymers

There are no such residues in this entry.