



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 29, 2025 – 07:04 AM EDT

PDB ID : 3QA8 / pdb_00003qa8
Title : Crystal Structure of inhibitor of kappa B kinase beta
Authors : Xu, G.; Lo, Y.C.; Li, Q.; Napolitano, G.; Wu, X.; Jiang, X.; Dreano, M.; Karin, M.; Wu, H.
Deposited on : 2011-01-10
Resolution : 3.60 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

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>.

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

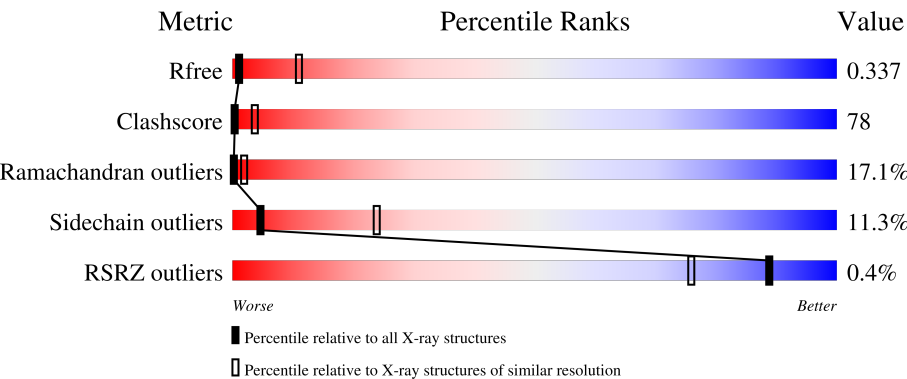
MolProbity	:	4-5-2 with Phenix2.0rc1
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.006 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

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 3.60 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 _{free}	164625	1563 (3.70-3.50)
Clashscore	180529	1665 (3.70-3.50)
Ramachandran outliers	177936	1641 (3.70-3.50)
Sidechain outliers	177891	1640 (3.70-3.50)
RSRZ outliers	164620	1562 (3.70-3.50)

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 ≥ 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	A	676	<div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>22%45%21%•8%</div></div>
1	B	676	<div><div></div><div></div><div></div><div></div><div></div></div> <div>22%43%23%•8%</div>
1	C	676	<div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>22%44%22%•8%</div></div>
1	D	676	<div><div></div><div></div><div></div><div></div><div></div></div> <div>22%45%21%•8%</div>
1	E	676	<div><div>%</div><div><div></div><div></div><div></div><div></div><div></div></div><div>23%44%21%•8%</div></div>

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Mol	Chain	Length	Quality of chain
1	F	676	<div><div></div><div>23%43%22%•8%</div></div>
1	G	676	<div><div></div><div>22%38%18%•20%</div></div>
1	H	676	<div><div></div><div>20%39%18%•20%</div></div>

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 39026 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 MGC80376 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	B	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	C	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	D	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	E	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	F	622	Total	C	N	O	S	0	0	0
			5048	3189	899	929	31			
1	G	541	Total	C	N	O	S	0	0	0
			4369	2764	779	800	26			
1	H	541	Total	C	N	O	S	0	0	0
			4369	2764	779	800	26			

There are 152 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	expression tag	UNP Q6INT1
A	1	GLY	-	expression tag	UNP Q6INT1
A	2	GLY	-	expression tag	UNP Q6INT1
A	3	ARG	-	expression tag	UNP Q6INT1
A	4	SER	-	expression tag	UNP Q6INT1
A	5	PRO	-	expression tag	UNP Q6INT1
A	6	SER	-	expression tag	UNP Q6INT1
A	7	LEU	-	expression tag	UNP Q6INT1
A	8	PRO	-	expression tag	UNP Q6INT1
A	9	THR	-	expression tag	UNP Q6INT1
A	10	GLN	-	expression tag	UNP Q6INT1
A	11	THR	-	expression tag	UNP Q6INT1
A	12	CYS	-	expression tag	UNP Q6INT1

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Chain	Residue	Modelled	Actual	Comment	Reference
A	13	GLY	-	expression tag	UNP Q6INT1
A	14	PRO	-	expression tag	UNP Q6INT1
A	15	TRP	-	expression tag	UNP Q6INT1
A	16	GLU	-	expression tag	UNP Q6INT1
A	177	GLU	SER	engineered mutation	UNP Q6INT1
A	181	GLU	SER	engineered mutation	UNP Q6INT1
B	0	GLY	-	expression tag	UNP Q6INT1
B	1	GLY	-	expression tag	UNP Q6INT1
B	2	GLY	-	expression tag	UNP Q6INT1
B	3	ARG	-	expression tag	UNP Q6INT1
B	4	SER	-	expression tag	UNP Q6INT1
B	5	PRO	-	expression tag	UNP Q6INT1
B	6	SER	-	expression tag	UNP Q6INT1
B	7	LEU	-	expression tag	UNP Q6INT1
B	8	PRO	-	expression tag	UNP Q6INT1
B	9	THR	-	expression tag	UNP Q6INT1
B	10	GLN	-	expression tag	UNP Q6INT1
B	11	THR	-	expression tag	UNP Q6INT1
B	12	CYS	-	expression tag	UNP Q6INT1
B	13	GLY	-	expression tag	UNP Q6INT1
B	14	PRO	-	expression tag	UNP Q6INT1
B	15	TRP	-	expression tag	UNP Q6INT1
B	16	GLU	-	expression tag	UNP Q6INT1
B	177	GLU	SER	engineered mutation	UNP Q6INT1
B	181	GLU	SER	engineered mutation	UNP Q6INT1
C	0	GLY	-	expression tag	UNP Q6INT1
C	1	GLY	-	expression tag	UNP Q6INT1
C	2	GLY	-	expression tag	UNP Q6INT1
C	3	ARG	-	expression tag	UNP Q6INT1
C	4	SER	-	expression tag	UNP Q6INT1
C	5	PRO	-	expression tag	UNP Q6INT1
C	6	SER	-	expression tag	UNP Q6INT1
C	7	LEU	-	expression tag	UNP Q6INT1
C	8	PRO	-	expression tag	UNP Q6INT1
C	9	THR	-	expression tag	UNP Q6INT1
C	10	GLN	-	expression tag	UNP Q6INT1
C	11	THR	-	expression tag	UNP Q6INT1
C	12	CYS	-	expression tag	UNP Q6INT1
C	13	GLY	-	expression tag	UNP Q6INT1
C	14	PRO	-	expression tag	UNP Q6INT1
C	15	TRP	-	expression tag	UNP Q6INT1
C	16	GLU	-	expression tag	UNP Q6INT1

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Chain	Residue	Modelled	Actual	Comment	Reference
C	177	GLU	SER	engineered mutation	UNP Q6INT1
C	181	GLU	SER	engineered mutation	UNP Q6INT1
D	0	GLY	-	expression tag	UNP Q6INT1
D	1	GLY	-	expression tag	UNP Q6INT1
D	2	GLY	-	expression tag	UNP Q6INT1
D	3	ARG	-	expression tag	UNP Q6INT1
D	4	SER	-	expression tag	UNP Q6INT1
D	5	PRO	-	expression tag	UNP Q6INT1
D	6	SER	-	expression tag	UNP Q6INT1
D	7	LEU	-	expression tag	UNP Q6INT1
D	8	PRO	-	expression tag	UNP Q6INT1
D	9	THR	-	expression tag	UNP Q6INT1
D	10	GLN	-	expression tag	UNP Q6INT1
D	11	THR	-	expression tag	UNP Q6INT1
D	12	CYS	-	expression tag	UNP Q6INT1
D	13	GLY	-	expression tag	UNP Q6INT1
D	14	PRO	-	expression tag	UNP Q6INT1
D	15	TRP	-	expression tag	UNP Q6INT1
D	16	GLU	-	expression tag	UNP Q6INT1
D	177	GLU	SER	engineered mutation	UNP Q6INT1
D	181	GLU	SER	engineered mutation	UNP Q6INT1
E	0	GLY	-	expression tag	UNP Q6INT1
E	1	GLY	-	expression tag	UNP Q6INT1
E	2	GLY	-	expression tag	UNP Q6INT1
E	3	ARG	-	expression tag	UNP Q6INT1
E	4	SER	-	expression tag	UNP Q6INT1
E	5	PRO	-	expression tag	UNP Q6INT1
E	6	SER	-	expression tag	UNP Q6INT1
E	7	LEU	-	expression tag	UNP Q6INT1
E	8	PRO	-	expression tag	UNP Q6INT1
E	9	THR	-	expression tag	UNP Q6INT1
E	10	GLN	-	expression tag	UNP Q6INT1
E	11	THR	-	expression tag	UNP Q6INT1
E	12	CYS	-	expression tag	UNP Q6INT1
E	13	GLY	-	expression tag	UNP Q6INT1
E	14	PRO	-	expression tag	UNP Q6INT1
E	15	TRP	-	expression tag	UNP Q6INT1
E	16	GLU	-	expression tag	UNP Q6INT1
E	177	GLU	SER	engineered mutation	UNP Q6INT1
E	181	GLU	SER	engineered mutation	UNP Q6INT1
F	0	GLY	-	expression tag	UNP Q6INT1
F	1	GLY	-	expression tag	UNP Q6INT1

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Chain	Residue	Modelled	Actual	Comment	Reference
F	2	GLY	-	expression tag	UNP Q6INT1
F	3	ARG	-	expression tag	UNP Q6INT1
F	4	SER	-	expression tag	UNP Q6INT1
F	5	PRO	-	expression tag	UNP Q6INT1
F	6	SER	-	expression tag	UNP Q6INT1
F	7	LEU	-	expression tag	UNP Q6INT1
F	8	PRO	-	expression tag	UNP Q6INT1
F	9	THR	-	expression tag	UNP Q6INT1
F	10	GLN	-	expression tag	UNP Q6INT1
F	11	THR	-	expression tag	UNP Q6INT1
F	12	CYS	-	expression tag	UNP Q6INT1
F	13	GLY	-	expression tag	UNP Q6INT1
F	14	PRO	-	expression tag	UNP Q6INT1
F	15	TRP	-	expression tag	UNP Q6INT1
F	16	GLU	-	expression tag	UNP Q6INT1
F	177	GLU	SER	engineered mutation	UNP Q6INT1
F	181	GLU	SER	engineered mutation	UNP Q6INT1
G	0	GLY	-	expression tag	UNP Q6INT1
G	1	GLY	-	expression tag	UNP Q6INT1
G	2	GLY	-	expression tag	UNP Q6INT1
G	3	ARG	-	expression tag	UNP Q6INT1
G	4	SER	-	expression tag	UNP Q6INT1
G	5	PRO	-	expression tag	UNP Q6INT1
G	6	SER	-	expression tag	UNP Q6INT1
G	7	LEU	-	expression tag	UNP Q6INT1
G	8	PRO	-	expression tag	UNP Q6INT1
G	9	THR	-	expression tag	UNP Q6INT1
G	10	GLN	-	expression tag	UNP Q6INT1
G	11	THR	-	expression tag	UNP Q6INT1
G	12	CYS	-	expression tag	UNP Q6INT1
G	13	GLY	-	expression tag	UNP Q6INT1
G	14	PRO	-	expression tag	UNP Q6INT1
G	15	TRP	-	expression tag	UNP Q6INT1
G	16	GLU	-	expression tag	UNP Q6INT1
G	177	GLU	SER	engineered mutation	UNP Q6INT1
G	181	GLU	SER	engineered mutation	UNP Q6INT1
H	0	GLY	-	expression tag	UNP Q6INT1
H	1	GLY	-	expression tag	UNP Q6INT1
H	2	GLY	-	expression tag	UNP Q6INT1
H	3	ARG	-	expression tag	UNP Q6INT1
H	4	SER	-	expression tag	UNP Q6INT1
H	5	PRO	-	expression tag	UNP Q6INT1

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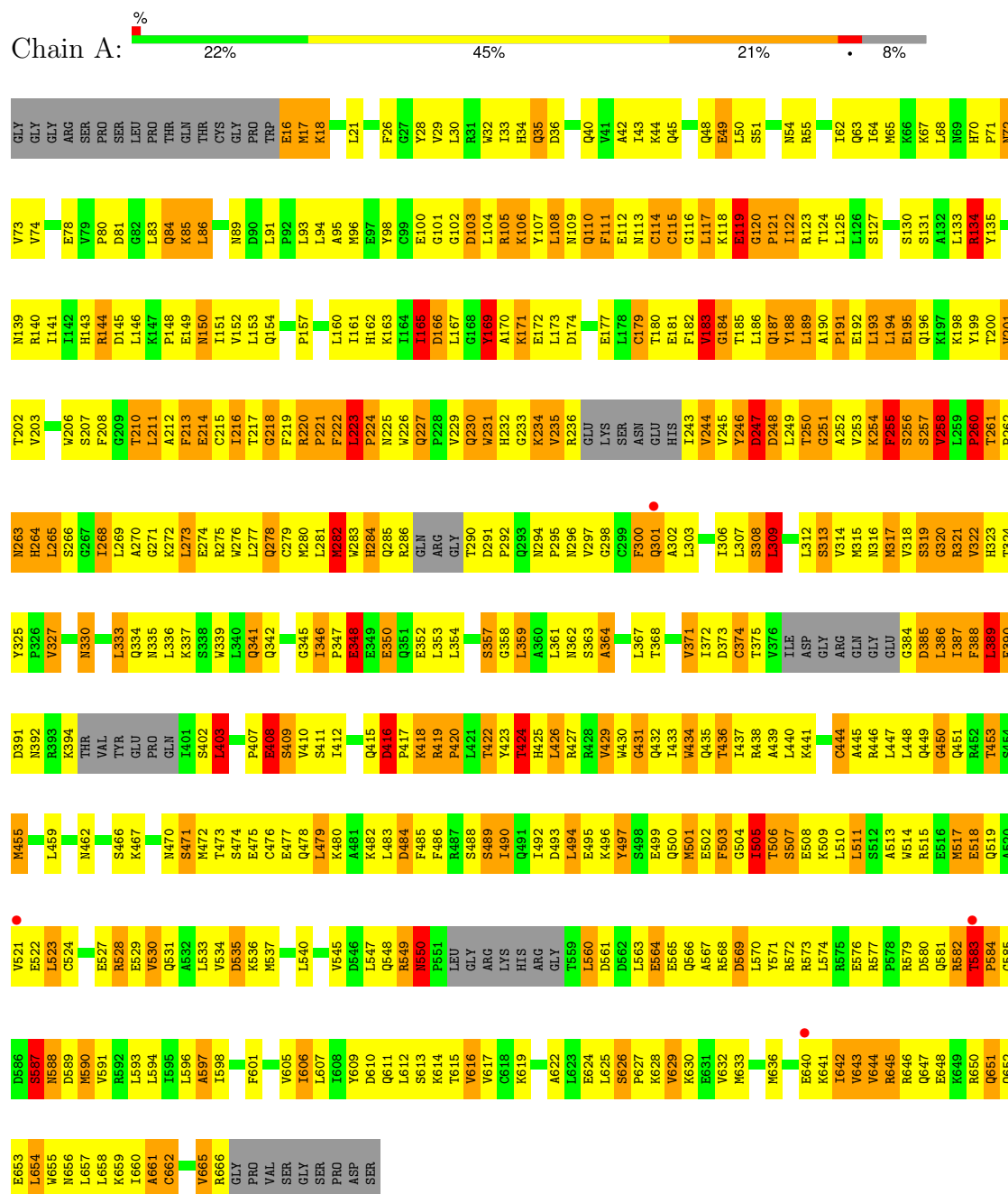
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Chain	Residue	Modelled	Actual	Comment	Reference
H	6	SER	-	expression tag	UNP Q6INT1
H	7	LEU	-	expression tag	UNP Q6INT1
H	8	PRO	-	expression tag	UNP Q6INT1
H	9	THR	-	expression tag	UNP Q6INT1
H	10	GLN	-	expression tag	UNP Q6INT1
H	11	THR	-	expression tag	UNP Q6INT1
H	12	CYS	-	expression tag	UNP Q6INT1
H	13	GLY	-	expression tag	UNP Q6INT1
H	14	PRO	-	expression tag	UNP Q6INT1
H	15	TRP	-	expression tag	UNP Q6INT1
H	16	GLU	-	expression tag	UNP Q6INT1
H	177	GLU	SER	engineered mutation	UNP Q6INT1
H	181	GLU	SER	engineered mutation	UNP Q6INT1

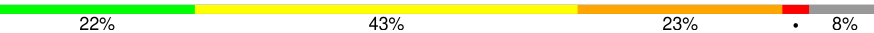
3 Residue-property plots

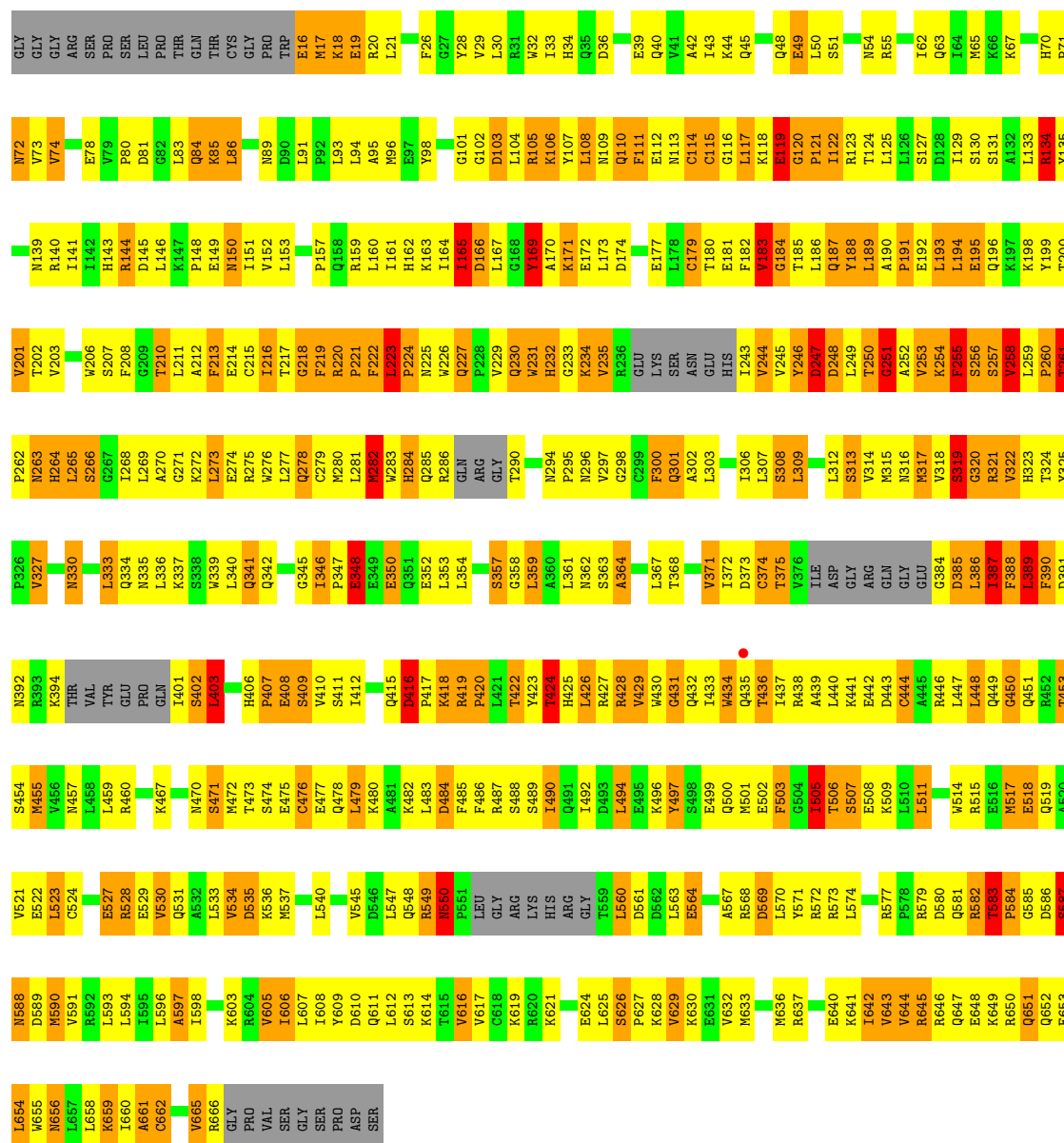
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: MGC80376 protein




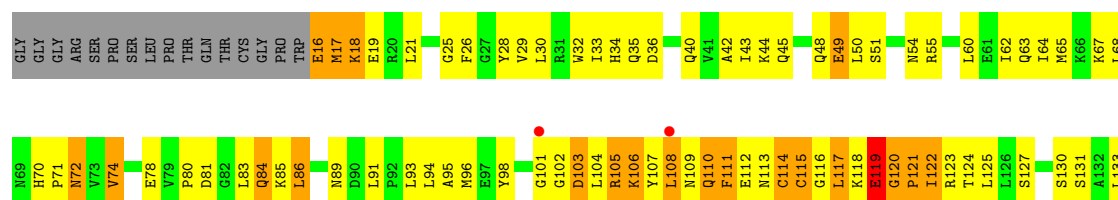
• Molecule 1: MGC80376 protein

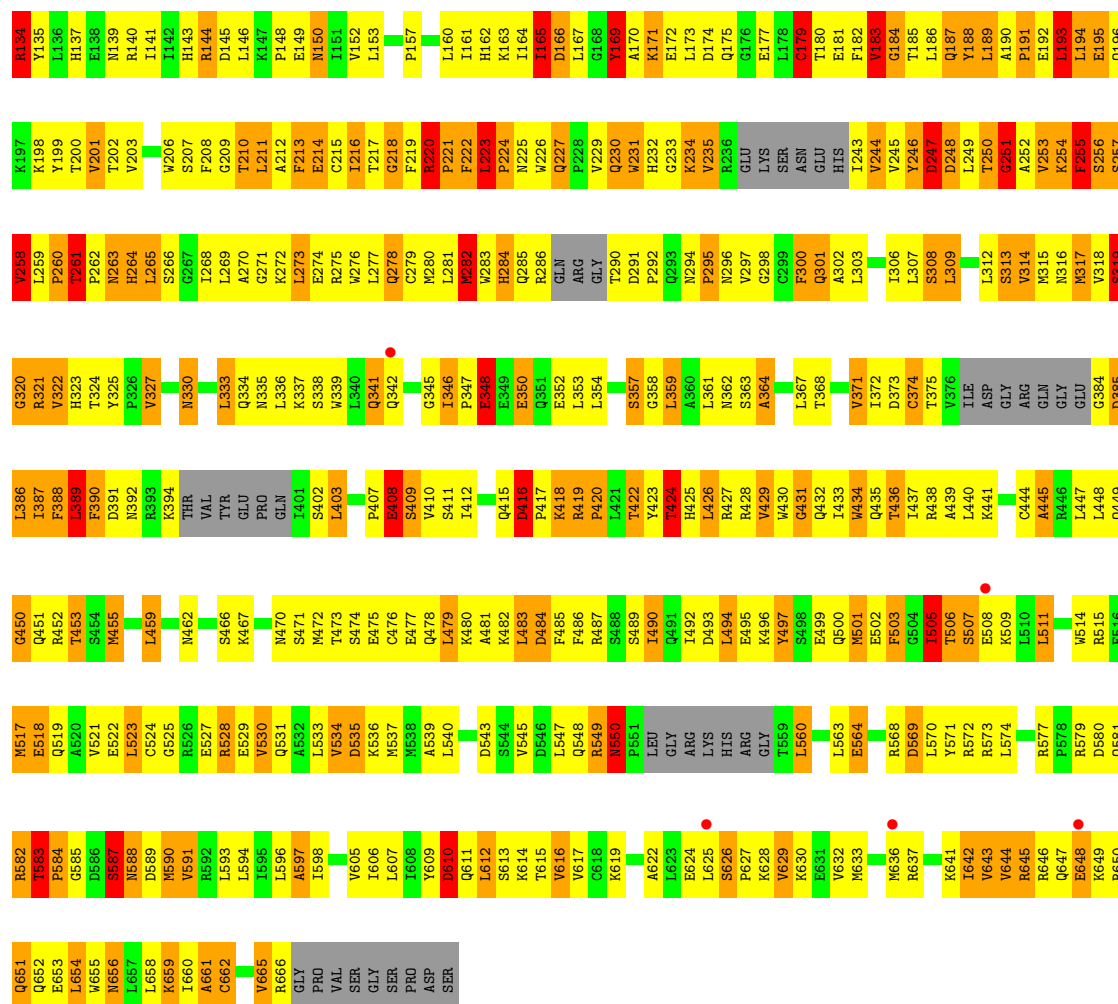
Chain B: 

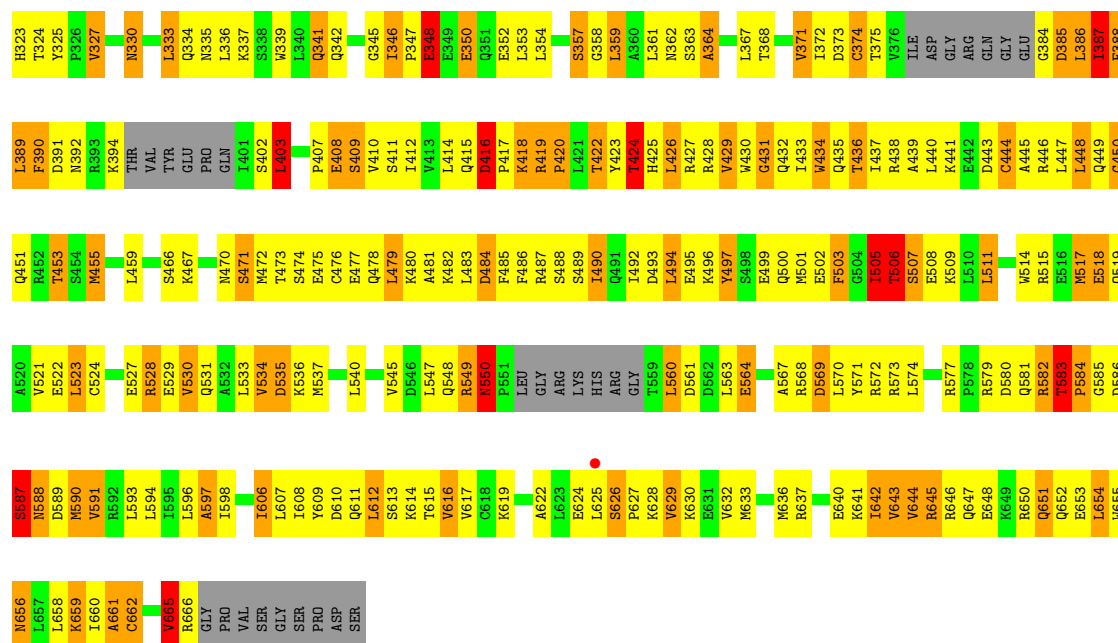


• Molecule 1: MGC80376 protein

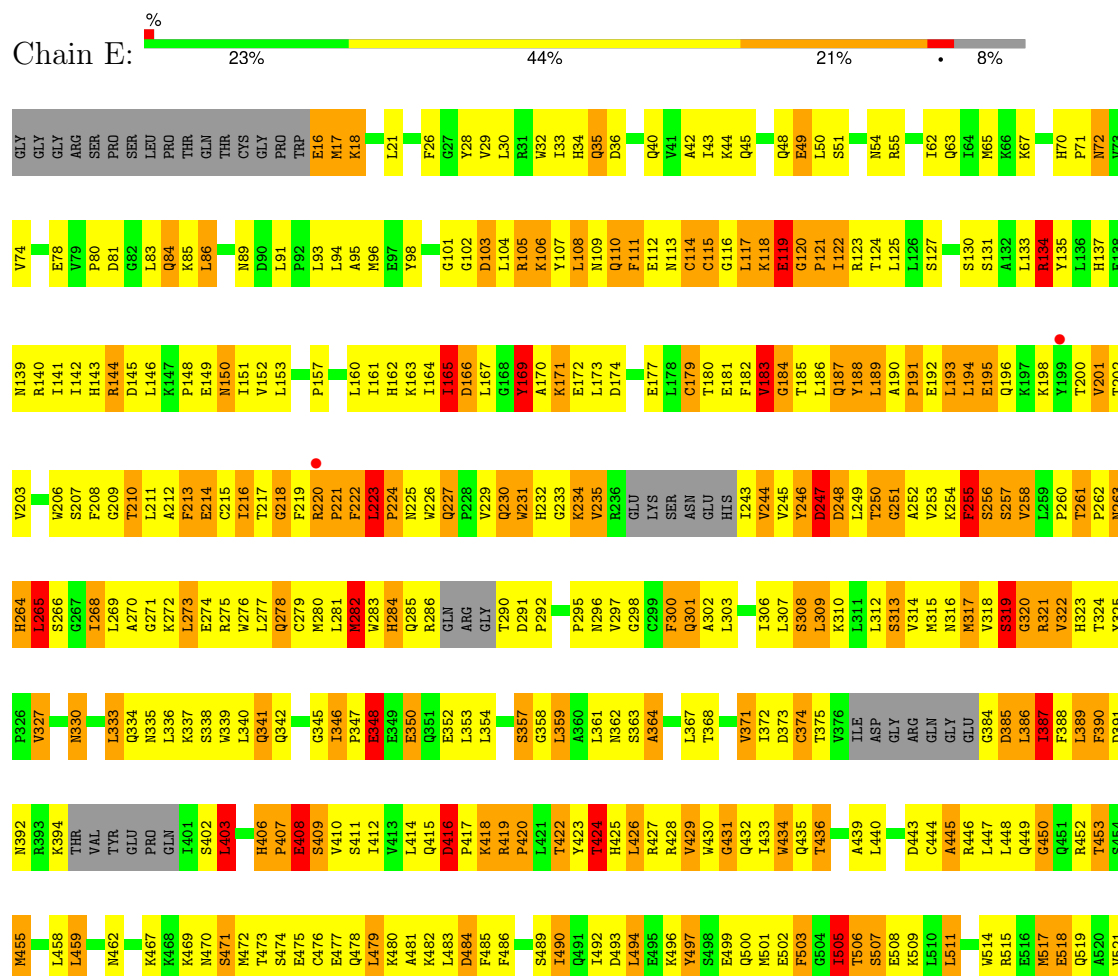
Chain C: 

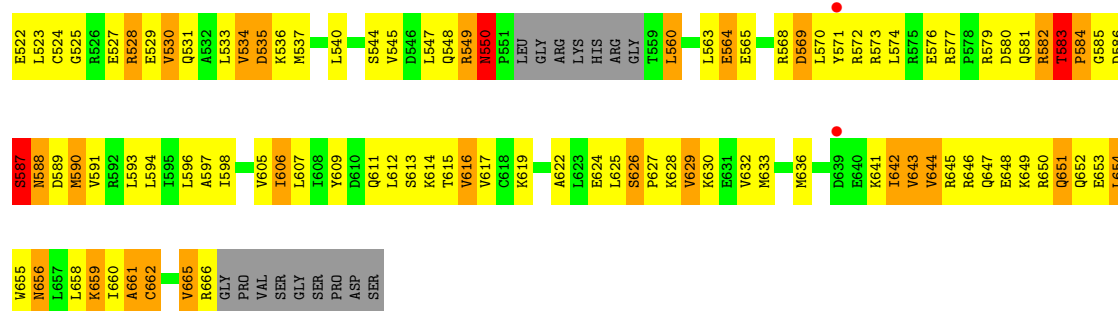




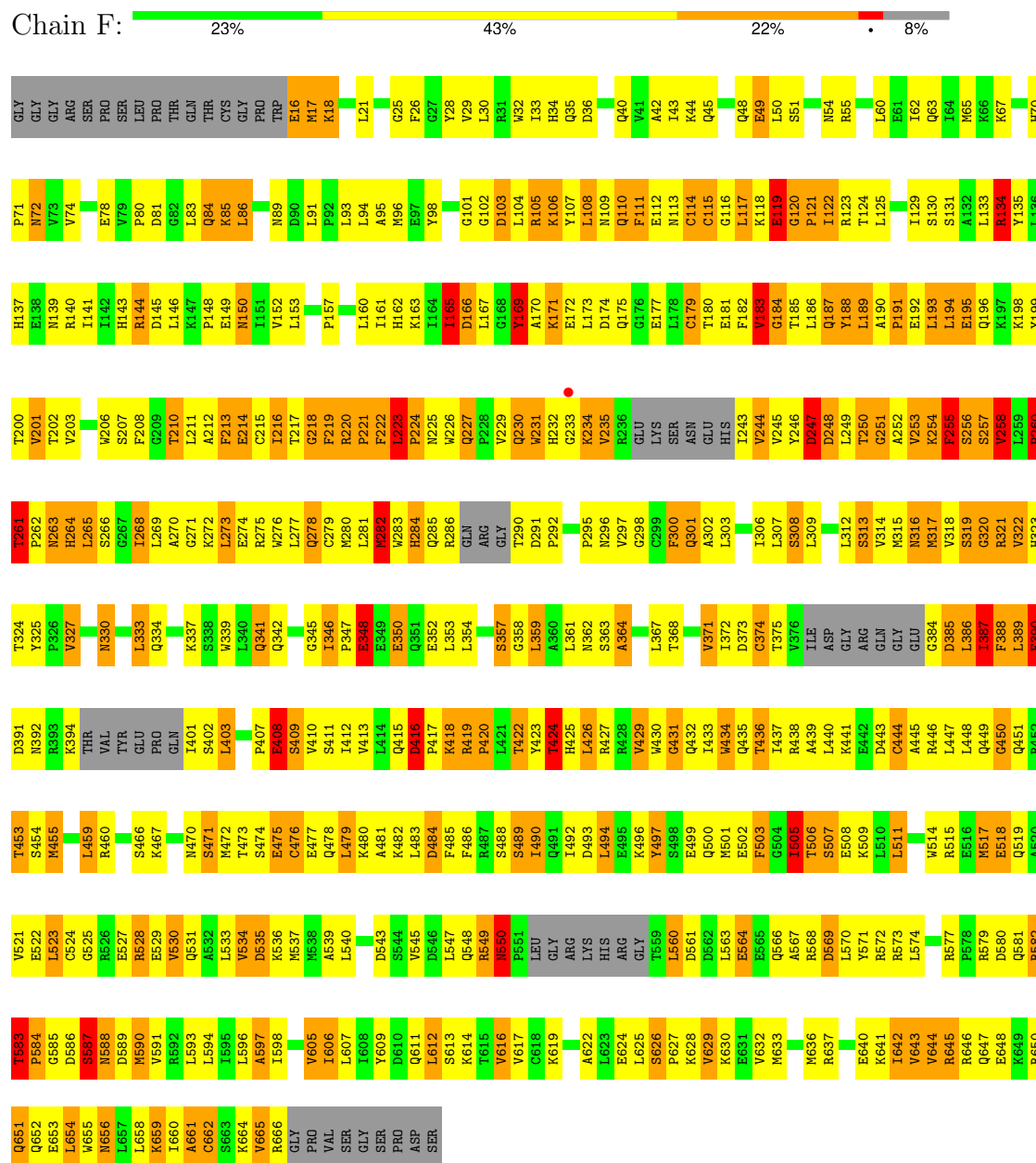


• Molecule 1: MGC80376 protein

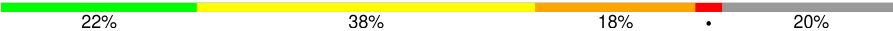




• Molecule 1: MGC80376 protein

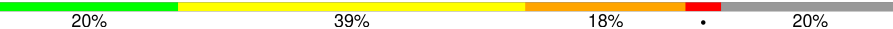


• Molecule 1: MGC80376 protein

Chain G:  22% 38% 18% 20%

LEU	D589	VAL	G450	L389	H323	S257	Q196	L133	H70	GLY
LYS	M590	GLU	T453	F390	T324	V258	K197	R134	P71	GLY
ILE	V591	LEU	S454	D391	Y325	L259	K198	Y135	N72	GLY
ALA	R592	CYS	M455	N392	P326	T260	V199	L136	V73	ARG
CYS	L593	GLY		K393	V327	T261	T200	H137	V74	SER
SER	L594	ARG		K394		P262	V201	E138		PRO
LYS	L595	GLU	L459	THR	N330	N263	T202	N139	E78	SER
VAL	L596	R528	R460	VAL	L333	H264	W203	R140	V79	LEU
ARG	A597	E529		TYR	L334	L265		I141	P80	PRO
GLY	L598	V530	M470	GLU	Q334	S266	W206	I142	D81	THR
PRO		Q531	S471	PRO	N335	G267	S207	H143	G82	GLN
VAL	V605	A532	M472	GLN	L336	L268	F208	R144	L83	THR
SER	L606	L533	T473	L401	K337	L269	G209	D145	Q84	CYS
GLY	L607	S474	S474	S402	S338	A270	T210	L146	K85	GLY
SER	L608	D535	E475	L403	W339	G271	L211	K147	L86	PRO
ASP	Y609	K536			L340	K272	A212	P148		TRP
PRO	D610	N537		H406	Q341	L273	F213	E149	N89	E16
SER	Q611		GLN	P407	Q342	E274	E214	N150	D90	M17
		V545	LYS	S408		R275	C215	L151	L91	K18
	S613	D546	LYS	V409	G345	W276	L216	V152	P92	E19
	L547	K614	ALA	V410	L346	L277	T217	L153	R20	R20
	T615	Q548	LYS	S411	P347	Q278	G218	Q154	L94	L21
	V616	R549	LEU	L412	E348	C279	F219		A95	
	V617	N550	ASP	V413	E349	W280	R220		N96	F26
	C618	P551	PHE	L414	E350	L281	P221	P157	F97	G27
	K619	LEU	ARG	Q415	Q351	W282	F222	L160	Y98	Y28
		GLY	ARG	D416	E352	W283	L223	L161	C99	V29
	E624	LYS	SER	P417	L353	H284	P224	H162	E100	L30
	L625	LYS	SER	R418	L354	Q285	N225	K163	G101	R31
	S626	HIS	ILE	R419		R286	W226	L164	G102	W32
	P627	ARG	GLN	P420	S357	GLN	Q227	I165	D103	I33
	K628	GLY	ILE	L421	G358	ARG	P228	D166	L104	R34
	V629	L560	ASP	T422	L359	GLY	W230	L167	R105	Q35
	K630	L560	LEU	Y423	A360		Q230	K166	K106	D36
	E631		GLU	T424	L361		W231	Y169	Y107	
	V632	L563	LYS	H425	N362	N296	H232	A170	L108	Q40
	M633	E564	TYR	L426	S363	V297	G233	K171	N109	V41
		E565	SER	R427	A364	G298	K234	E172	Q110	A42
	M636	Q666	GLU	H428	L367	C299	V235	L173	F111	T43
	R637	A567	GLN	V429	T368	F300	R236	D174	E112	K44
		R568	MET	H430		Q301	GLU		N113	Q45
ASP		D669	GLU	G431	T368	A302	LYS	E177	C114	
GLU	L570	L570	PHE	Q432	V371	L303	SER	L178	G114	Q48
LYS	Y571	Y571	GLY	L433	L372		ASN	C179	G116	E49
ILE	R572	R572	ILE	W435	D373	L306	GLU	T180	L117	L50
VAL	R573	R573	THR	Q436	C374	L307	HIS	E181	K118	S51
VAL	L574	L574	SER	T436	T375	S308	T243	F182	E119	
ARG			GLU	L437	V376	L309	V244	Y183	G120	N54
		R577	LYS	R438	ILE		G184	P121	P121	R55
GLN	P578	P578	LEU	A439	ASP	L312	Y246	T185	I122	
GLU	R579	R579	LEU	L440	GLY	S313	D247	L186	R123	W58
LYS	D580	D580	SER	R441	ARG	V314	D248	Q187	T124	
ARG	Q581	Q581	ALA	E442	GLN	K315	L249	Y188	L125	I62
GLN	R582	R582	TRP	D443	GLY	N316	T250	L189	L126	Q63
GLN	T583	T583	ARG	C444	GLU	K317	G251	S127	I64	
GLU	P584	P584	GLU	A445	V318	V318	A252	P191	D128	M65
LEU	D585	D585	MET	R446	D385	S319	V253	E192	I129	K66
TRP	D586	D586	GLU	L447	L386	G320	K254	L193	S130	K67
ASN	S587	S587	GLN	L448	T387	R321	F255	L194	S131	L68
LEU	N582	N582	ALA	D449	F389	V220	S256	E195	A132	N60

• Molecule 1: MGC80376 protein

Chain H:  20% 39% 18% 20%

GLY	GLY	GLY	ARG	SER	PRO	PRO	SER	LEU	PRO	THR	THR	GLN	THR	CYS	GLY	PRO	TRP	E16	E17	E18	E19	R20	L21	G25	F26	G27	Y28	V29	L30	R31	V32	I33	H34	Q35	D36	Q40	Y41	A42	I43	I43	K44	Q45	Q48	E49	L50	S51	N54	R55	W58	I62	Q63	I64	M65	K66	K67	L68	A132
H70	P71	N72	V73	V74	E78	V79	P80	D81	G82	L83	Q84	K85	L86	N89	D90	L91	P92	L93	L94	A95	N96	F97	Y98	G101	G102	D103	L104	R105	K106	Y107	L108	N109	Q110	F111	E112	N113	C114	C115	G116	L117	K118	E119	G120	P121	I122	R123	T124	L125	Q126	S127	P128	I129	S130	L131	A132	R134	
Y135	L136	H137	E138	N139	L140	I141	I142	H143	D144	L146	K147	P148	E149	N150	I151	V152	L153	P157	Q158	R159	L160	I161	H162	K163	I164	D165	L166	G167	G168	Y169	K170	E171	L172	L173	D174	E177	L178	C179	T180	E181	F182	V183	T185	P186	L187	L188	A189	P190	E191	I192	M193	L194	E195	Q196	L197		

ARG	Q581	GLU	G450	L387	R321	L259	K198
	R582	MET	Q451	F388	V322	P260	L199
	T583	GLU	R452	F389	H323	T261	T200
	P584	GLN	T453	D390	T324	P262	V201
	C585	ALA	S454	D391	Y325	N263	T202
	D586	VAL	M455	N392	F326	H264	V203
	S587	GLU		R393	V327	L265	
	S588	LEU	L458	K394		S266	W206
	D589	CYS	L459	THR	N330	S207	S207
	M590	GLY	R460	VAL		F208	F208
ASN	V591	ARG		TYR	L333	G209	G209
	R592	GLU	S466	GLU	Q334	A270	T210
	L593	R528	R467	PRO	N335	G271	L211
	L594	E529		GLN	L336	K272	A212
	L595	V530		I401	K337	L273	F213
	L596	Q531	N470	S402	S338	E274	E214
	A597	M471	S472	S403	N339	R275	C215
	A598	L533	T473	L403	L340	W276	T216
	L599	L533	T473		L340	W276	T216
	L599	L533	T473		L340	W276	T216
VAL	F601	D534	S474	P407	Q341	T217	T217
	V602	D535	S475	E408	Q342	Q278	G218
	K603	K536		S409	Q342	C279	R219
	M604	M537	CYS	V410	G345	M280	F220
	M605		GLN	S411	I346	L281	P221
	L606		LEU	I412	P347	L282	F222
	L607	L540	LYS	V413	E348	L223	F222
	W608	Q541	ALA	L414	E349	H284	P224
	W609		LYS	Q415	E350	Q285	N225
	D610	S544	LYS	Q415	E350	Q285	N225
SER	P611	D546	LEU	P416	Q351	R286	W226
	P612	P546	ASP	P417	E352	GLN	Q227
	S613	L547	PHE	K418	L353	ARG	F228
	K614	Q548	PHE	R419	L354	GLY	
	T615	R549	ARG	P420			Q230
	W616	N550	SER	T421	S357	D291	H231
	W617	P551	SER	L422	G358	P292	H232
	C618	LEU	ILE	Y423	L359	Q293	G233
	K619	GLY	GLN	T424	A360	N294	K234
	R620	ARG	ILE	H425	L361	P295	V235
ASP	K621	LYS	ASP	L426	N362	N296	
		HIS	LEU	R427	S363	V297	
		ARG	GLU	R428	A364		
		GLY	LYS	Y429		C298	LYS
		GLY	TYR	W430	L367	F300	SER
		T559	SER	Q431	T368	Q301	ASN
		L560	GLU	Q432		A302	GLU
		L563	GLN	I433	V371	L303	HIS
		E564	MET	W434	I372	V244	L243
			GLU	Q435	D373	I306	V245
VAL	V632	A567	PHE	T436	C374	L307	Y246
	M633	R568	GLY	I437	T375	S308	D247
		D569	ILE	R438	V376	L309	D248
		L570	THR	A439	ILE	L349	D248
		Y571	SER	L440	ASP	L249	L249
		R572	GLU		GLY	S250	T250
		R573	LYS	D443	ARG	G251	G251
		L574	LEU	C444	GLN	V314	A252
			LEU	A445	GLY	M315	K253
		R577	ALA	R446	GLU	M317	K254
ILE	W634	SER	ALA	L447	G384	V318	F255
	W635	P578	SER	L447	G384	V318	F255
		VAL	VAL	L447	G384	V318	F255
		VAL	TRP	L448	D385	S319	S257
		R579	ARG	D449	L386	C220	V258
		R580	ARG	D449	L386	C220	V258
		R581	ARG	D449	L386	C220	V258
		R582	ARG	D449	L386	C220	V258
		R583	ARG	D449	L386	C220	V258
		R584	ARG	D449	L386	C220	V258

4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	103.17Å 140.34Å 161.17Å 71.28° 79.56° 86.04°	Depositor
Resolution (Å)	15.00 – 3.60 15.00 – 3.60	Depositor EDS
% Data completeness (in resolution range)	78.7 (15.00-3.60) 78.0 (15.00-3.60)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.04	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.18 (at 3.48Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.6.4_486)	Depositor
R, R_{free}	0.308 , 0.344 0.302 , 0.337	Depositor DCC
R_{free} test set	4480 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	84.5	Xtriage
Anisotropy	0.749	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.19 , 107.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	39026	wwPDB-VP
Average B, all atoms (Å ²)	199.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.42% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical 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

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	A	0.96	9/5136 (0.2%)	1.33	50/6931 (0.7%)
1	B	0.98	12/5136 (0.2%)	1.34	53/6931 (0.8%)
1	C	1.02	10/5136 (0.2%)	1.34	59/6931 (0.9%)
1	D	0.96	8/5136 (0.2%)	1.32	50/6931 (0.7%)
1	E	1.00	9/5136 (0.2%)	1.33	48/6931 (0.7%)
1	F	0.99	10/5136 (0.2%)	1.33	47/6931 (0.7%)
1	G	0.96	7/4448 (0.2%)	1.32	42/6012 (0.7%)
1	H	0.98	8/4448 (0.2%)	1.33	43/6012 (0.7%)
All	All	0.98	73/39712 (0.2%)	1.33	392/53610 (0.7%)

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	A	0	11
1	B	0	11
1	C	0	10
1	D	0	11
1	E	0	10
1	F	0	11
1	G	0	11
1	H	0	11
All	All	0	86

All (73) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	261	THR	CA-C	10.16	1.65	1.52
1	C	261	THR	CA-C	10.05	1.65	1.52
1	G	261	THR	CA-C	9.20	1.64	1.52
1	A	261	THR	CA-C	9.04	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	119	GLU	N-CA	-8.27	1.38	1.46
1	H	261	THR	CA-C	8.02	1.62	1.52
1	D	261	THR	CA-C	7.46	1.62	1.52
1	E	119	GLU	N-CA	-7.25	1.39	1.46
1	H	119	GLU	N-CA	-6.97	1.39	1.46
1	B	261	THR	CA-C	6.95	1.61	1.52
1	C	258	VAL	N-CA	6.92	1.55	1.46
1	F	261	THR	CA-C	6.80	1.61	1.52
1	E	258	VAL	N-CA	6.72	1.54	1.46
1	E	18	LYS	CA-C	6.48	1.55	1.52
1	F	165	ILE	CA-CB	6.47	1.63	1.54
1	G	119	GLU	N-CA	-6.37	1.40	1.46
1	A	188	TYR	N-CA	6.36	1.54	1.46
1	F	316	ASN	CA-C	-6.35	1.48	1.52
1	B	165	ILE	CA-CB	6.34	1.63	1.54
1	C	119	GLU	N-CA	-6.33	1.40	1.46
1	F	18	LYS	CA-C	6.23	1.55	1.52
1	A	18	LYS	CA-C	6.22	1.55	1.52
1	G	18	LYS	CA-C	6.07	1.55	1.52
1	D	18	LYS	CA-C	6.05	1.55	1.52
1	B	119	GLU	N-CA	-5.98	1.40	1.46
1	E	445	ALA	CA-C	5.92	1.60	1.52
1	A	119	GLU	N-CA	-5.91	1.40	1.46
1	H	165	ILE	CA-CB	5.84	1.62	1.54
1	D	188	TYR	N-CA	5.82	1.53	1.46
1	F	258	VAL	N-CA	5.81	1.53	1.46
1	A	254	LYS	N-CA	5.71	1.52	1.46
1	B	254	LYS	N-CA	5.71	1.52	1.46
1	H	254	LYS	N-CA	5.67	1.52	1.46
1	H	18	LYS	CA-C	5.65	1.55	1.52
1	C	426	LEU	N-CA	-5.64	1.38	1.46
1	B	428	ARG	CA-C	-5.63	1.45	1.52
1	A	165	ILE	CA-CB	5.62	1.62	1.54
1	B	426	LEU	N-CA	-5.56	1.38	1.46
1	D	258	VAL	N-CA	5.56	1.53	1.46
1	A	258	VAL	N-CA	5.50	1.53	1.46
1	E	426	LEU	N-CA	-5.48	1.38	1.46
1	B	219	PHE	N-CA	5.48	1.53	1.46
1	G	188	TYR	N-CA	5.47	1.52	1.46
1	D	254	LYS	N-CA	5.47	1.52	1.46
1	C	445	ALA	CA-C	5.43	1.60	1.52
1	B	258	VAL	N-CA	5.40	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	188	TYR	N-CA	5.38	1.52	1.46
1	F	219	PHE	N-CA	5.38	1.53	1.46
1	G	254	LYS	N-CA	5.36	1.52	1.46
1	C	18	LYS	CA-C	5.34	1.55	1.52
1	D	506	THR	CA-CB	5.34	1.62	1.53
1	F	254	LYS	N-CA	5.34	1.52	1.46
1	E	165	ILE	CA-CB	5.27	1.61	1.54
1	F	188	TYR	N-CA	5.25	1.52	1.46
1	H	429	VAL	CA-CB	-5.24	1.48	1.54
1	D	165	ILE	CA-CB	5.24	1.61	1.54
1	E	246	TYR	N-CA	5.23	1.52	1.45
1	G	165	ILE	CA-CB	5.21	1.61	1.54
1	C	246	TYR	N-CA	5.21	1.52	1.45
1	D	166	ASP	N-CA	5.20	1.52	1.46
1	A	246	TYR	N-CA	5.20	1.52	1.45
1	H	426	LEU	N-CA	-5.17	1.39	1.46
1	C	165	ILE	CA-CB	5.13	1.61	1.54
1	C	119	GLU	C-O	-5.10	1.17	1.23
1	A	426	LEU	N-CA	-5.07	1.39	1.46
1	E	118	LYS	N-CA	5.06	1.52	1.46
1	G	246	TYR	N-CA	5.05	1.52	1.45
1	B	246	TYR	CA-C	5.04	1.58	1.52
1	H	413	VAL	CA-CB	5.04	1.61	1.54
1	B	18	LYS	CA-C	5.03	1.54	1.52
1	F	476	CYS	N-CA	-5.03	1.40	1.46
1	C	220	ARG	C-N	5.01	1.41	1.33
1	B	246	TYR	N-CA	5.01	1.52	1.45

All (392) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	223	LEU	CA-C-N	-12.93	107.72	120.52
1	F	223	LEU	C-N-CA	-12.93	107.72	120.52
1	A	223	LEU	CA-C-N	-11.84	108.06	120.85
1	A	223	LEU	C-N-CA	-11.84	108.06	120.85
1	F	426	LEU	N-CA-C	-11.84	98.93	113.50
1	B	223	LEU	CA-C-N	-11.69	108.23	120.85
1	B	223	LEU	C-N-CA	-11.69	108.23	120.85
1	G	426	LEU	N-CA-C	-11.66	99.15	113.50
1	E	426	LEU	N-CA-C	-11.58	99.25	113.50
1	H	223	LEU	CA-C-N	-11.58	108.34	120.85
1	H	223	LEU	C-N-CA	-11.58	108.34	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	223	LEU	CA-C-N	-11.56	108.36	120.85
1	C	223	LEU	C-N-CA	-11.56	108.36	120.85
1	A	426	LEU	N-CA-C	-11.54	99.31	113.50
1	G	223	LEU	CA-C-N	-11.50	108.43	120.85
1	G	223	LEU	C-N-CA	-11.50	108.43	120.85
1	D	223	LEU	CA-C-N	-11.49	108.44	120.85
1	D	223	LEU	C-N-CA	-11.49	108.44	120.85
1	B	426	LEU	N-CA-C	-11.45	99.42	113.50
1	E	223	LEU	CA-C-N	-11.36	108.58	120.85
1	E	223	LEU	C-N-CA	-11.36	108.58	120.85
1	H	426	LEU	N-CA-C	-11.10	99.85	113.50
1	C	426	LEU	N-CA-C	-10.96	100.02	113.50
1	D	426	LEU	N-CA-C	-10.94	100.04	113.50
1	C	256	SER	N-CA-C	10.57	127.03	109.06
1	E	256	SER	N-CA-C	10.45	126.82	109.06
1	H	256	SER	N-CA-C	10.37	126.68	109.06
1	D	256	SER	N-CA-C	10.28	126.54	109.06
1	B	256	SER	N-CA-C	10.10	126.23	109.06
1	G	256	SER	N-CA-C	10.04	126.12	109.06
1	A	256	SER	N-CA-C	9.99	126.05	109.06
1	F	256	SER	N-CA-C	9.98	126.02	109.06
1	C	392	ASN	N-CA-C	8.43	119.36	108.24
1	B	18	LYS	N-CA-C	8.16	121.09	108.12
1	A	309	LEU	CA-C-N	-8.15	111.75	123.00
1	A	309	LEU	C-N-CA	-8.15	111.75	123.00
1	F	18	LYS	N-CA-C	8.09	120.99	108.12
1	H	112	GLU	N-CA-C	-8.09	100.33	112.54
1	D	18	LYS	N-CA-C	8.05	120.92	108.12
1	G	18	LYS	N-CA-C	8.05	120.91	108.12
1	F	224	PRO	N-CA-C	-8.04	99.14	111.13
1	H	264	HIS	N-CA-C	8.00	120.04	110.44
1	E	18	LYS	N-CA-C	7.99	120.82	108.12
1	A	18	LYS	N-CA-C	7.92	120.71	108.12
1	C	18	LYS	N-CA-C	7.92	120.71	108.12
1	A	518	GLU	N-CA-C	-7.90	101.38	111.02
1	B	392	ASN	N-CA-C	7.89	119.12	108.23
1	E	264	HIS	N-CA-C	7.89	119.91	110.44
1	G	346	ILE	CA-C-N	7.89	127.82	119.85
1	G	346	ILE	C-N-CA	7.89	127.82	119.85
1	D	112	GLU	N-CA-C	-7.88	100.64	112.54
1	A	112	GLU	N-CA-C	-7.83	100.71	112.54
1	H	18	LYS	N-CA-C	7.82	120.56	108.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	264	HIS	N-CA-C	7.79	119.79	110.44
1	B	264	HIS	N-CA-C	7.72	119.71	110.44
1	E	112	GLU	N-CA-C	-7.70	100.91	112.54
1	C	112	GLU	N-CA-C	-7.69	100.93	112.54
1	H	193	LEU	N-CA-C	-7.68	94.44	110.80
1	A	346	ILE	CA-C-N	7.66	127.58	119.85
1	A	346	ILE	C-N-CA	7.66	127.58	119.85
1	B	346	ILE	CA-C-N	7.65	127.58	119.85
1	B	346	ILE	C-N-CA	7.65	127.58	119.85
1	B	518	GLU	N-CA-C	-7.65	101.68	111.02
1	E	392	ASN	N-CA-C	7.65	118.79	108.23
1	F	112	GLU	N-CA-C	-7.65	100.99	112.54
1	C	346	ILE	CA-C-N	7.62	127.54	119.85
1	C	346	ILE	C-N-CA	7.62	127.54	119.85
1	D	392	ASN	N-CA-C	7.62	118.74	108.23
1	F	392	ASN	N-CA-C	7.60	118.27	108.24
1	H	346	ILE	CA-C-N	7.59	127.52	119.85
1	H	346	ILE	C-N-CA	7.59	127.52	119.85
1	E	346	ILE	CA-C-N	7.54	127.47	119.85
1	E	346	ILE	C-N-CA	7.54	127.47	119.85
1	H	392	ASN	N-CA-C	7.54	118.19	108.24
1	A	193	LEU	N-CA-C	-7.51	94.81	110.80
1	G	193	LEU	N-CA-C	-7.51	94.81	110.80
1	B	484	ASP	N-CA-C	7.50	120.92	111.69
1	D	511	LEU	N-CA-C	-7.48	106.09	114.62
1	G	264	HIS	N-CA-C	7.48	119.42	110.44
1	D	193	LEU	N-CA-C	-7.47	94.88	110.80
1	F	591	VAL	N-CA-C	-7.46	105.85	111.90
1	F	346	ILE	CA-C-N	7.46	127.39	119.85
1	F	346	ILE	C-N-CA	7.46	127.39	119.85
1	D	346	ILE	CA-C-N	7.46	127.38	119.85
1	D	346	ILE	C-N-CA	7.46	127.38	119.85
1	F	264	HIS	N-CA-C	7.44	119.37	110.44
1	A	392	ASN	N-CA-C	7.44	118.50	108.23
1	E	193	LEU	N-CA-C	-7.44	94.96	110.80
1	C	193	LEU	N-CA-C	-7.43	94.97	110.80
1	B	193	LEU	N-CA-C	-7.42	94.98	110.80
1	B	112	GLU	N-CA-C	-7.39	101.38	112.54
1	G	112	GLU	N-CA-C	-7.37	101.41	112.54
1	F	193	LEU	N-CA-C	-7.34	95.17	110.80
1	A	264	HIS	N-CA-C	7.33	119.23	110.44
1	E	518	GLU	N-CA-C	-7.29	102.12	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	518	GLU	N-CA-C	-7.24	102.18	111.02
1	C	264	HIS	N-CA-C	7.16	119.03	110.44
1	F	518	GLU	N-CA-C	-7.15	102.30	111.02
1	F	484	ASP	N-CA-C	7.14	120.47	111.69
1	C	282	MET	N-CA-C	7.12	117.42	108.45
1	E	224	PRO	N-CA-C	-7.10	98.39	111.03
1	F	560	LEU	N-CA-C	-7.10	103.47	111.14
1	A	511	LEU	N-CA-C	-7.01	106.63	114.62
1	B	224	PRO	N-CA-C	-7.01	98.55	111.03
1	D	19	GLU	N-CA-C	7.00	117.74	108.07
1	F	511	LEU	N-CA-C	-6.99	106.65	114.62
1	A	224	PRO	N-CA-C	-6.98	98.61	111.03
1	A	560	LEU	N-CA-C	-6.97	103.61	111.14
1	B	511	LEU	N-CA-C	-6.96	106.69	114.62
1	C	224	PRO	N-CA-C	-6.94	98.68	111.03
1	C	518	GLU	N-CA-C	-6.93	102.57	111.02
1	G	392	ASN	N-CA-C	6.90	117.75	108.23
1	B	19	GLU	N-CA-C	6.90	117.59	108.07
1	B	651	GLN	N-CA-C	-6.89	105.00	113.41
1	D	591	VAL	N-CA-C	-6.88	106.33	111.90
1	E	511	LEU	N-CA-C	-6.86	106.80	114.62
1	F	475	GLU	CA-C-N	-6.86	110.56	120.29
1	F	475	GLU	C-N-CA	-6.86	110.56	120.29
1	H	224	PRO	N-CA-C	-6.84	98.85	111.03
1	C	511	LEU	N-CA-C	-6.81	106.86	114.62
1	D	224	PRO	N-CA-C	-6.77	98.98	111.03
1	B	505	ILE	N-CA-C	6.76	121.50	112.04
1	A	505	ILE	N-CA-C	6.75	121.61	111.89
1	G	560	LEU	N-CA-C	-6.71	103.89	111.14
1	A	474	SER	N-CA-C	-6.70	105.24	113.41
1	H	282	MET	N-CA-C	6.68	116.87	108.45
1	B	282	MET	N-CA-C	6.68	116.86	108.45
1	G	224	PRO	N-CA-C	-6.62	99.25	111.03
1	F	282	MET	N-CA-C	6.62	116.78	108.45
1	B	591	VAL	N-CA-C	-6.61	106.54	111.90
1	G	591	VAL	N-CA-C	-6.57	106.16	111.81
1	F	416	ASP	CA-C-N	-6.56	111.64	119.84
1	F	416	ASP	C-N-CA	-6.56	111.64	119.84
1	E	282	MET	N-CA-C	6.55	116.70	108.45
1	D	505	ILE	N-CA-C	6.55	121.51	113.00
1	A	282	MET	N-CA-C	6.53	116.68	108.45
1	C	505	ILE	N-CA-C	6.53	121.49	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	591	VAL	N-CA-C	-6.53	106.61	111.90
1	E	560	LEU	N-CA-C	-6.51	104.11	111.14
1	H	591	VAL	N-CA-C	-6.51	106.21	111.81
1	D	282	MET	N-CA-C	6.51	116.65	108.45
1	E	505	ILE	N-CA-C	6.47	121.42	113.00
1	C	445	ALA	O-C-N	-6.43	114.04	122.59
1	A	188	TYR	N-CA-C	6.40	121.44	112.93
1	C	255	PHE	N-CA-C	6.40	117.91	107.23
1	G	282	MET	N-CA-C	6.39	116.50	108.45
1	G	416	ASP	CA-C-N	-6.37	111.87	119.84
1	G	416	ASP	C-N-CA	-6.37	111.87	119.84
1	C	327	VAL	N-CA-C	6.35	117.27	108.12
1	B	255	PHE	N-CA-C	6.34	117.81	107.23
1	D	416	ASP	CA-C-N	-6.33	111.92	119.84
1	D	416	ASP	C-N-CA	-6.33	111.92	119.84
1	F	651	GLN	N-CA-C	-6.33	105.69	113.41
1	H	341	GLN	N-CA-C	-6.30	104.51	111.82
1	E	327	VAL	N-CA-C	6.30	117.19	108.12
1	H	416	ASP	CA-C-N	-6.29	111.98	119.84
1	H	416	ASP	C-N-CA	-6.29	111.98	119.84
1	A	416	ASP	CA-C-N	-6.28	111.99	119.84
1	A	416	ASP	C-N-CA	-6.28	111.99	119.84
1	B	183	VAL	N-CA-C	6.28	122.39	109.34
1	E	255	PHE	N-CA-C	6.28	117.71	107.23
1	E	183	VAL	N-CA-C	6.26	122.37	109.34
1	H	560	LEU	N-CA-C	-6.25	104.39	111.14
1	E	416	ASP	CA-C-N	-6.21	112.08	119.84
1	E	416	ASP	C-N-CA	-6.21	112.08	119.84
1	E	188	TYR	N-CA-C	6.21	121.18	112.93
1	B	416	ASP	CA-C-N	-6.19	112.10	119.84
1	B	416	ASP	C-N-CA	-6.19	112.10	119.84
1	C	416	ASP	CA-C-N	-6.17	112.13	119.84
1	C	416	ASP	C-N-CA	-6.17	112.13	119.84
1	H	86	LEU	N-CA-C	-6.17	106.02	112.93
1	G	183	VAL	N-CA-C	6.15	122.13	109.34
1	F	505	ILE	N-CA-C	6.14	120.98	113.00
1	H	375	THR	N-CA-C	6.13	118.28	107.61
1	H	327	VAL	N-CA-C	6.13	116.95	108.12
1	C	183	VAL	N-CA-C	6.13	122.08	109.34
1	G	86	LEU	N-CA-C	-6.13	106.07	112.93
1	E	474	SER	N-CA-C	-6.12	105.94	113.41
1	D	560	LEU	N-CA-C	-6.12	104.53	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	183	VAL	N-CA-C	6.12	122.06	109.34
1	B	86	LEU	N-CA-C	-6.11	106.08	112.93
1	C	86	LEU	N-CA-C	-6.10	106.10	112.93
1	A	183	VAL	N-CA-C	6.09	122.02	109.34
1	C	375	THR	N-CA-C	6.08	118.19	107.61
1	D	17	MET	N-CA-C	6.08	117.12	108.74
1	F	86	LEU	N-CA-C	-6.07	106.13	112.93
1	B	375	THR	N-CA-C	6.07	118.17	107.61
1	F	247	ASP	N-CA-C	6.05	123.69	110.80
1	F	188	TYR	N-CA-C	6.03	120.95	112.93
1	B	327	VAL	N-CA-C	6.03	116.80	108.12
1	B	17	MET	N-CA-C	6.03	117.06	108.74
1	C	309	LEU	CA-C-N	-6.03	113.46	122.74
1	C	309	LEU	C-N-CA	-6.03	113.46	122.74
1	C	17	MET	N-CA-C	6.03	117.06	108.74
1	C	474	SER	N-CA-C	-6.03	106.06	113.41
1	B	341	GLN	N-CA-C	-6.01	104.66	112.23
1	E	247	ASP	N-CA-C	6.01	123.60	110.80
1	C	335	ASN	N-CA-C	-6.00	104.43	110.97
1	H	183	VAL	N-CA-C	6.00	121.82	109.34
1	G	188	TYR	N-CA-C	5.99	120.89	112.93
1	D	86	LEU	N-CA-C	-5.98	106.23	112.93
1	E	17	MET	N-CA-C	5.98	116.99	108.74
1	H	247	ASP	N-CA-C	5.98	123.53	110.80
1	H	17	MET	N-CA-C	5.97	116.98	108.74
1	E	375	THR	N-CA-C	5.97	117.99	107.61
1	H	583	THR	N-CA-C	5.96	122.99	109.81
1	C	591	VAL	N-CA-C	-5.96	106.69	111.81
1	E	86	LEU	N-CA-C	-5.96	106.26	112.93
1	B	583	THR	N-CA-C	5.95	122.97	109.81
1	C	560	LEU	N-CA-C	-5.95	104.71	111.14
1	B	560	LEU	N-CA-C	-5.95	104.72	111.14
1	D	247	ASP	N-CA-C	5.94	123.45	110.80
1	A	255	PHE	N-CA-C	5.92	117.12	107.23
1	H	188	TYR	N-CA-C	5.92	120.81	112.93
1	E	591	VAL	N-CA-C	-5.92	106.72	111.81
1	B	247	ASP	N-CA-C	5.91	123.39	110.80
1	A	583	THR	N-CA-C	5.90	122.85	109.81
1	B	474	SER	N-CA-C	-5.90	106.21	113.41
1	G	247	ASP	N-CA-C	5.90	123.36	110.80
1	E	341	GLN	N-CA-C	-5.89	104.81	112.23
1	E	84	GLN	CB-CA-C	-5.89	109.77	116.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	583	THR	N-CA-C	5.87	122.78	109.81
1	B	550	ASN	N-CA-C	5.86	122.75	109.81
1	A	17	MET	N-CA-C	5.85	116.82	108.74
1	A	86	LEU	N-CA-C	-5.85	106.38	112.93
1	B	188	TYR	N-CA-C	5.85	120.71	112.93
1	A	247	ASP	N-CA-C	5.84	123.23	110.80
1	E	309	LEU	CA-C-N	-5.83	113.76	122.74
1	E	309	LEU	C-N-CA	-5.83	113.76	122.74
1	D	651	GLN	N-CA-C	-5.82	106.31	113.41
1	F	474	SER	N-CA-C	-5.82	106.31	113.41
1	H	169	TYR	N-CA-C	-5.82	103.43	111.81
1	B	605	VAL	CB-CA-C	5.82	116.35	110.65
1	G	341	GLN	N-CA-C	-5.82	105.07	111.82
1	F	375	THR	N-CA-C	5.81	117.72	107.61
1	F	84	GLN	CB-CA-C	-5.80	109.86	116.54
1	F	183	VAL	N-CA-C	5.80	121.41	109.34
1	G	255	PHE	N-CA-C	5.80	116.92	107.23
1	F	17	MET	N-CA-C	5.80	116.75	108.74
1	C	247	ASP	N-CA-C	5.80	123.16	110.80
1	H	550	ASN	N-CA-C	5.80	122.63	109.81
1	A	550	ASN	N-CA-C	5.79	122.61	109.81
1	F	550	ASN	N-CA-C	5.79	122.61	109.81
1	G	17	MET	N-CA-C	5.79	116.73	108.74
1	C	550	ASN	N-CA-C	5.79	122.60	109.81
1	G	327	VAL	N-CA-C	5.78	116.44	108.12
1	D	550	ASN	N-CA-C	5.77	122.56	109.81
1	H	84	GLN	CB-CA-C	-5.77	109.91	116.54
1	F	327	VAL	N-CA-C	5.76	116.42	108.12
1	E	550	ASN	N-CA-C	5.76	122.54	109.81
1	A	84	GLN	CB-CA-C	-5.76	109.92	116.54
1	D	474	SER	N-CA-C	-5.75	106.40	113.41
1	G	375	THR	N-CA-C	5.74	117.60	107.61
1	C	84	GLN	CB-CA-C	-5.74	109.94	116.54
1	E	583	THR	N-CA-C	5.74	122.49	109.81
1	G	335	ASN	N-CA-C	-5.74	104.72	110.97
1	C	583	THR	N-CA-C	5.73	122.48	109.81
1	G	474	SER	N-CA-C	-5.72	106.44	113.41
1	H	255	PHE	N-CA-C	5.70	116.75	107.23
1	D	375	THR	N-CA-C	5.70	117.53	107.61
1	D	84	GLN	CB-CA-C	-5.67	110.01	116.54
1	G	84	GLN	CB-CA-C	-5.67	110.02	116.54
1	G	169	TYR	N-CA-C	-5.67	103.64	111.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	583	THR	N-CA-C	5.67	122.33	109.81
1	F	390	PHE	N-CA-C	5.66	121.08	113.72
1	D	327	VAL	N-CA-C	5.66	116.27	108.12
1	E	484	ASP	N-CA-C	5.65	120.30	112.45
1	A	651	GLN	N-CA-C	-5.65	106.52	113.41
1	F	341	GLN	N-CA-C	-5.65	105.27	111.82
1	B	84	GLN	CB-CA-C	-5.64	110.06	116.54
1	A	327	VAL	N-CA-C	5.63	116.22	108.12
1	A	375	THR	N-CA-C	5.63	117.40	107.61
1	G	583	THR	N-CA-C	5.63	122.25	109.81
1	A	169	TYR	N-CA-C	-5.62	103.72	111.81
1	E	169	TYR	N-CA-C	-5.61	103.74	111.81
1	E	651	GLN	N-CA-C	-5.60	106.58	113.41
1	D	341	GLN	N-CA-C	-5.60	105.32	111.82
1	D	188	TYR	N-CA-C	5.59	120.36	112.93
1	A	605	VAL	CB-CA-C	5.58	116.12	110.65
1	C	188	TYR	N-CA-C	5.58	120.34	112.93
1	G	550	ASN	N-CA-C	5.57	122.13	109.81
1	B	645	ARG	N-CA-C	-5.54	106.88	113.97
1	A	64	ILE	N-CA-C	5.53	115.72	110.53
1	A	341	GLN	N-CA-C	-5.53	105.41	111.82
1	E	471	SER	N-CA-C	-5.50	106.62	113.55
1	B	253	VAL	CA-C-O	-5.50	116.34	120.96
1	D	255	PHE	N-CA-C	5.50	116.41	107.23
1	F	255	PHE	N-CA-C	5.50	116.41	107.23
1	B	335	ASN	N-CA-C	-5.48	104.99	110.97
1	C	341	GLN	N-CA-C	-5.48	105.32	112.23
1	C	651	GLN	N-CA-C	-5.47	105.73	112.90
1	C	169	TYR	N-CA-C	-5.45	103.96	111.81
1	C	389	LEU	N-CA-C	5.45	117.54	109.69
1	D	169	TYR	N-CA-C	-5.45	103.97	111.81
1	F	169	TYR	N-CA-C	-5.44	103.97	111.81
1	D	254	LYS	N-CA-C	5.44	117.36	108.55
1	C	253	VAL	CA-C-O	-5.44	116.39	120.96
1	C	610	ASP	O-C-N	5.44	127.88	122.12
1	H	474	SER	N-CA-C	-5.42	106.80	113.41
1	H	605	VAL	CB-CA-C	5.42	115.96	110.65
1	F	253	VAL	CA-C-O	-5.41	116.41	120.96
1	E	605	VAL	CB-CA-C	5.41	115.95	110.65
1	C	605	VAL	CB-CA-C	5.39	115.93	110.65
1	E	335	ASN	N-CA-C	-5.39	105.10	110.97
1	B	251	GLY	N-CA-C	-5.39	100.42	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	232	HIS	N-CA-C	-5.38	106.88	113.50
1	D	471	SER	N-CA-C	-5.37	106.78	113.55
1	F	534	VAL	N-CA-C	5.36	115.56	110.42
1	D	645	ARG	N-CA-C	-5.36	107.11	113.97
1	B	403	LEU	CA-C-N	5.35	126.53	119.84
1	B	403	LEU	C-N-CA	5.35	126.53	119.84
1	A	254	LYS	N-CA-C	5.35	117.21	108.55
1	A	294	ASN	N-CA-C	5.34	112.94	108.13
1	C	484	ASP	N-CA-C	5.32	119.85	112.45
1	B	169	TYR	N-CA-C	-5.31	104.16	111.81
1	B	471	SER	N-CA-C	-5.31	106.86	113.55
1	E	265	LEU	N-CA-C	5.30	117.67	110.35
1	A	484	ASP	N-CA-C	5.30	119.82	112.45
1	C	645	ARG	N-CA-C	-5.30	106.99	113.50
1	H	448	LEU	N-CA-C	-5.28	106.10	112.54
1	G	64	ILE	N-CA-C	5.28	115.49	110.53
1	G	471	SER	N-CA-C	-5.28	106.90	113.55
1	H	294	ASN	N-CA-C	5.27	112.87	108.13
1	A	471	SER	N-CA-C	-5.27	106.91	113.55
1	H	335	ASN	N-CA-C	-5.27	105.23	110.97
1	F	254	LYS	N-CA-C	5.27	117.08	108.55
1	A	403	LEU	CA-C-N	5.26	126.42	119.84
1	A	403	LEU	C-N-CA	5.26	126.42	119.84
1	F	605	VAL	CB-CA-C	5.26	115.80	110.65
1	G	534	VAL	N-CA-C	5.24	115.45	110.42
1	H	403	LEU	CA-C-N	5.24	126.39	119.84
1	H	403	LEU	C-N-CA	5.24	126.39	119.84
1	A	389	LEU	N-CA-C	5.23	117.22	109.69
1	F	471	SER	N-CA-C	-5.22	106.97	113.55
1	E	534	VAL	N-CA-C	5.22	115.43	110.42
1	C	408	GLU	N-CA-C	5.22	121.91	110.80
1	C	471	SER	N-CA-C	-5.21	106.98	113.55
1	G	265	LEU	N-CA-C	5.21	117.54	110.35
1	H	251	GLY	N-CA-C	-5.21	100.83	113.18
1	B	534	VAL	N-CA-C	5.20	115.41	110.42
1	A	501	MET	N-CA-C	-5.20	106.74	114.64
1	D	484	ASP	N-CA-C	5.18	119.65	112.45
1	G	605	VAL	CB-CA-C	5.18	115.72	110.65
1	G	403	LEU	CA-C-N	5.17	126.30	119.84
1	G	403	LEU	C-N-CA	5.17	126.30	119.84
1	A	645	ARG	N-CA-C	-5.16	107.15	113.50
1	C	64	ILE	N-CA-C	5.16	115.38	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	534	VAL	N-CA-C	5.14	115.36	110.42
1	D	403	LEU	CA-C-N	5.13	126.25	119.84
1	D	403	LEU	C-N-CA	5.13	126.25	119.84
1	H	606	ILE	N-CA-CB	5.13	116.45	110.65
1	C	259	LEU	CA-C-N	5.13	126.25	119.84
1	C	259	LEU	C-N-CA	5.13	126.25	119.84
1	F	408	GLU	N-CA-C	5.13	121.72	110.80
1	C	251	GLY	N-CA-C	-5.12	101.03	113.18
1	A	408	GLU	N-CA-C	5.12	121.69	110.80
1	B	259	LEU	CA-C-N	5.11	126.23	119.84
1	B	259	LEU	C-N-CA	5.11	126.23	119.84
1	E	403	LEU	CA-C-N	5.11	126.23	119.84
1	E	403	LEU	C-N-CA	5.11	126.23	119.84
1	C	294	ASN	N-CA-C	5.11	112.73	108.13
1	H	389	LEU	N-CA-C	5.10	117.04	109.69
1	G	408	GLU	N-CA-C	5.10	121.67	110.80
1	F	645	ARG	N-CA-C	-5.10	107.44	113.97
1	A	335	ASN	N-CA-C	-5.09	105.42	110.97
1	B	319	SER	N-CA-C	5.09	121.63	110.80
1	C	179	CYS	N-CA-C	5.08	121.63	110.80
1	E	319	SER	N-CA-C	5.08	121.63	110.80
1	B	389	LEU	N-CA-C	5.08	117.00	109.69
1	H	179	CYS	N-CA-C	5.07	121.61	110.80
1	B	294	ASN	N-CA-C	5.07	112.69	108.13
1	C	501	MET	N-CA-C	-5.06	106.95	114.64
1	E	408	GLU	N-CA-C	5.06	121.58	110.80
1	C	612	LEU	N-CA-C	-5.06	104.75	112.04
1	G	390	PHE	N-CA-C	5.06	120.30	113.72
1	B	457	ASN	N-CA-C	-5.05	107.78	114.04
1	D	152	VAL	N-CA-C	5.05	114.74	106.72
1	D	319	SER	N-CA-C	5.05	121.55	110.80
1	E	406	HIS	N-CA-C	5.04	117.75	110.14
1	D	335	ASN	N-CA-C	-5.04	105.48	110.97
1	G	254	LYS	N-CA-C	5.04	116.71	108.55
1	C	254	LYS	N-CA-C	5.03	116.69	108.55
1	D	259	LEU	CA-C-N	5.02	126.12	119.84
1	D	259	LEU	C-N-CA	5.02	126.12	119.84
1	D	262	PRO	N-CA-C	5.02	119.48	112.26
1	H	534	VAL	N-CA-C	5.01	115.23	110.42
1	C	19	GLU	N-CA-C	5.01	117.92	108.65
1	D	534	VAL	N-CA-C	5.01	115.23	110.42
1	C	319	SER	N-CA-C	5.01	121.47	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	501	MET	N-CA-C	-5.01	107.03	114.64
1	H	64	ILE	N-CA-C	5.01	115.24	110.53
1	D	665	VAL	CB-CA-C	-5.01	103.08	111.29

There are no chirality outliers.

All (86) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	119	GLU	Peptide
1	A	120	GLY	Peptide
1	A	169	TYR	Peptide
1	A	221	PRO	Peptide
1	A	223	LEU	Peptide
1	A	247	ASP	Peptide
1	A	255	PHE	Peptide
1	A	257	SER	Peptide
1	A	260	PRO	Peptide
1	A	389	LEU	Peptide
1	A	587	SER	Peptide
1	B	119	GLU	Peptide
1	B	120	GLY	Peptide
1	B	169	TYR	Peptide
1	B	221	PRO	Peptide
1	B	223	LEU	Peptide
1	B	247	ASP	Peptide
1	B	255	PHE	Peptide
1	B	257	SER	Peptide
1	B	389	LEU	Peptide
1	B	527	GLU	Mainchain
1	B	587	SER	Peptide
1	C	119	GLU	Peptide
1	C	120	GLY	Peptide
1	C	169	TYR	Peptide
1	C	221	PRO	Peptide
1	C	223	LEU	Peptide
1	C	247	ASP	Peptide
1	C	255	PHE	Peptide
1	C	257	SER	Peptide
1	C	389	LEU	Peptide
1	C	587	SER	Peptide
1	D	119	GLU	Peptide
1	D	120	GLY	Peptide

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Mol	Chain	Res	Type	Group
1	D	169	TYR	Peptide
1	D	221	PRO	Peptide
1	D	223	LEU	Peptide
1	D	247	ASP	Peptide
1	D	255	PHE	Peptide
1	D	257	SER	Peptide
1	D	260	PRO	Peptide
1	D	389	LEU	Peptide
1	D	587	SER	Peptide
1	E	119	GLU	Peptide
1	E	120	GLY	Peptide
1	E	169	TYR	Peptide
1	E	221	PRO	Peptide
1	E	223	LEU	Peptide
1	E	247	ASP	Peptide
1	E	255	PHE	Peptide
1	E	257	SER	Peptide
1	E	389	LEU	Peptide
1	E	587	SER	Peptide
1	F	119	GLU	Peptide
1	F	120	GLY	Peptide
1	F	169	TYR	Peptide
1	F	221	PRO	Peptide
1	F	223	LEU	Peptide
1	F	247	ASP	Peptide
1	F	255	PHE	Peptide
1	F	257	SER	Peptide
1	F	260	PRO	Peptide
1	F	389	LEU	Peptide
1	F	587	SER	Peptide
1	G	119	GLU	Peptide
1	G	120	GLY	Peptide
1	G	169	TYR	Peptide
1	G	221	PRO	Peptide
1	G	223	LEU	Peptide
1	G	247	ASP	Peptide
1	G	255	PHE	Peptide
1	G	257	SER	Peptide
1	G	260	PRO	Peptide
1	G	389	LEU	Peptide
1	G	587	SER	Peptide
1	H	119	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	H	120	GLY	Peptide
1	H	169	TYR	Peptide
1	H	221	PRO	Peptide
1	H	223	LEU	Peptide
1	H	247	ASP	Peptide
1	H	255	PHE	Peptide
1	H	257	SER	Peptide
1	H	260	PRO	Peptide
1	H	389	LEU	Peptide
1	H	587	SER	Peptide

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	A	5048	0	5120	804	3
1	B	5048	0	5120	849	2
1	C	5048	0	5120	870	4
1	D	5048	0	5120	888	0
1	E	5048	0	5120	849	2
1	F	5048	0	5120	843	0
1	G	4369	0	4430	634	0
1	H	4369	0	4430	650	1
All	All	39026	0	39580	6134	6

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 78.

All (6134) 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)
1:E:547:LEU:CD1	1:E:615:THR:HG22	1.18	1.61
1:E:547:LEU:HD13	1:E:615:THR:CG2	1.16	1.54
1:C:496:LYS:CB	1:D:655:TRP:HE1	1.25	1.48
1:A:524:CYS:SG	1:A:643:VAL:HG11	1.55	1.46
1:C:496:LYS:HB2	1:D:655:TRP:NE1	1.23	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:226:TRP:CD1	1:H:227:GLN:H	1.44	1.34
1:C:573:ARG:HH12	1:D:573:ARG:NH2	1.26	1.33
1:C:226:TRP:CD1	1:C:227:GLN:H	1.45	1.33
1:C:573:ARG:NH1	1:D:573:ARG:HH22	1.25	1.33
1:D:226:TRP:CD1	1:D:227:GLN:H	1.46	1.33
1:D:434:TRP:CZ3	1:D:568:ARG:HA	1.63	1.32
1:F:226:TRP:CD1	1:F:227:GLN:H	1.45	1.32
1:E:226:TRP:CD1	1:E:227:GLN:H	1.47	1.31
1:B:226:TRP:CD1	1:B:227:GLN:H	1.47	1.31
1:A:226:TRP:CD1	1:A:227:GLN:H	1.49	1.30
1:E:655:TRP:NE1	1:F:496:LYS:HB2	1.48	1.29
1:B:434:TRP:CZ3	1:B:568:ARG:HA	1.67	1.29
1:G:226:TRP:CD1	1:G:227:GLN:H	1.50	1.29
1:A:230:GLN:O	1:A:232:HIS:N	1.66	1.28
1:H:434:TRP:CE3	1:H:568:ARG:HA	1.66	1.28
1:D:230:GLN:O	1:D:232:HIS:N	1.67	1.27
1:C:654:LEU:CD2	1:D:654:LEU:HD21	1.63	1.26
1:G:230:GLN:O	1:G:232:HIS:N	1.68	1.26
1:B:230:GLN:O	1:B:232:HIS:N	1.67	1.26
1:G:475:GLU:HG2	1:G:636:MET:CE	1.67	1.25
1:C:230:GLN:O	1:C:232:HIS:N	1.68	1.25
1:D:187:GLN:HB3	1:D:223:LEU:CD2	1.66	1.24
1:E:496:LYS:HB2	1:F:655:TRP:NE1	1.52	1.24
1:F:230:GLN:O	1:F:232:HIS:N	1.69	1.23
1:E:230:GLN:O	1:E:232:HIS:N	1.70	1.23
1:B:434:TRP:CE3	1:B:568:ARG:HA	1.73	1.22
1:D:434:TRP:CE3	1:D:568:ARG:HA	1.74	1.22
1:E:547:LEU:CD1	1:E:615:THR:CG2	1.86	1.22
1:A:654:LEU:HD21	1:B:654:LEU:CD2	1.68	1.21
1:A:655:TRP:CE3	1:B:654:LEU:HD11	1.74	1.21
1:H:230:GLN:O	1:H:232:HIS:N	1.69	1.21
1:E:246:TYR:HD1	1:E:258:VAL:HB	1.05	1.20
1:E:654:LEU:HD11	1:F:655:TRP:CE3	1.77	1.20
1:A:517:MET:SD	1:A:650:ARG:HG3	1.82	1.19
1:G:434:TRP:CE3	1:G:568:ARG:HA	1.78	1.19
1:A:434:TRP:CE3	1:A:568:ARG:HA	1.76	1.19
1:C:654:LEU:HD21	1:D:654:LEU:CD2	1.73	1.18
1:B:187:GLN:HB3	1:B:223:LEU:HD21	1.24	1.18
1:H:246:TYR:CD1	1:H:258:VAL:HB	1.79	1.18
1:B:246:TYR:CD1	1:B:258:VAL:HB	1.79	1.17
1:H:185:THR:HG23	1:H:187:GLN:HG3	1.18	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:496:LYS:CB	1:F:655:TRP:HE1	1.56	1.17
1:A:187:GLN:HB3	1:A:223:LEU:HD21	1.25	1.17
1:A:496:LYS:HB2	1:B:655:TRP:NE1	1.60	1.17
1:C:536:LYS:HB3	1:C:625:LEU:HD13	1.21	1.17
1:C:655:TRP:NE1	1:D:496:LYS:HB2	1.56	1.17
1:D:246:TYR:CD1	1:D:258:VAL:HB	1.79	1.17
1:A:246:TYR:CD1	1:A:258:VAL:HB	1.79	1.17
1:B:219:PHE:O	1:B:220:ARG:HG2	1.44	1.17
1:F:219:PHE:O	1:F:220:ARG:HG2	1.45	1.17
1:A:655:TRP:HE1	1:B:496:LYS:HB2	1.10	1.16
1:A:185:THR:HG23	1:A:187:GLN:HG3	1.20	1.16
1:C:246:TYR:CD1	1:C:258:VAL:HB	1.80	1.16
1:E:655:TRP:HE1	1:F:496:LYS:CB	1.57	1.16
1:G:246:TYR:CD1	1:G:258:VAL:HB	1.80	1.16
1:F:246:TYR:CD1	1:F:258:VAL:HB	1.80	1.16
1:G:111:PHE:HZ	1:G:572:ARG:HG3	1.00	1.16
1:G:246:TYR:HD1	1:G:258:VAL:HB	1.03	1.16
1:C:246:TYR:HD1	1:C:258:VAL:HB	1.03	1.15
1:E:246:TYR:CD1	1:E:258:VAL:HB	1.80	1.15
1:F:185:THR:HG23	1:F:187:GLN:HG3	1.15	1.15
1:E:118:LYS:HG2	1:E:264:HIS:O	1.46	1.15
1:E:540:LEU:CD1	1:E:622:ALA:HB2	1.77	1.15
1:C:118:LYS:HG2	1:C:264:HIS:O	1.47	1.14
1:C:422:THR:HB	1:C:585:GLY:CA	1.77	1.14
1:C:219:PHE:O	1:C:220:ARG:HG2	1.42	1.14
1:E:187:GLN:HB3	1:E:223:LEU:HD21	1.15	1.14
1:H:563:LEU:HD21	1:H:596:LEU:HB2	1.21	1.14
1:B:479:LEU:HB3	1:B:640:GLU:OE2	1.48	1.14
1:D:219:PHE:O	1:D:220:ARG:HG2	1.47	1.14
1:B:547:LEU:CD1	1:B:614:LYS:HB3	1.75	1.14
1:E:219:PHE:O	1:E:220:ARG:HG2	1.45	1.14
1:C:547:LEU:CD1	1:C:615:THR:HG22	1.78	1.14
1:G:111:PHE:CZ	1:G:572:ARG:HG3	1.81	1.14
1:F:189:LEU:HG	1:F:190:ALA:H	1.10	1.13
1:H:187:GLN:HB3	1:H:223:LEU:HD21	1.26	1.13
1:A:547:LEU:CD1	1:A:615:THR:HG22	1.78	1.13
1:A:486:PHE:HZ	1:A:517:MET:HE2	1.07	1.13
1:B:527:GLU:O	1:B:529:GLU:N	1.82	1.13
1:C:179:CYS:CB	1:C:181:GLU:HG2	1.77	1.13
1:C:187:GLN:HB3	1:C:223:LEU:HD21	1.25	1.13
1:B:434:TRP:HB3	1:B:571:TYR:CD1	1.84	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:646:ARG:HG3	1:C:647:GLN:NE2	1.64	1.12
1:D:185:THR:HG23	1:D:187:GLN:HG3	1.13	1.12
1:D:246:TYR:HD1	1:D:258:VAL:HB	1.03	1.12
1:E:187:GLN:HB3	1:E:223:LEU:CD2	1.78	1.12
1:H:179:CYS:CB	1:H:181:GLU:HG2	1.78	1.12
1:A:476:CYS:SG	1:A:477:GLU:OE2	2.06	1.12
1:D:476:CYS:SG	1:D:477:GLU:OE2	2.06	1.12
1:G:475:GLU:CG	1:G:636:MET:HE1	1.80	1.12
1:B:185:THR:HG23	1:B:187:GLN:HG3	1.16	1.12
1:B:189:LEU:HG	1:B:190:ALA:H	1.09	1.12
1:G:185:THR:HG23	1:G:187:GLN:HG3	1.16	1.12
1:A:179:CYS:CB	1:A:181:GLU:HG2	1.78	1.11
1:D:179:CYS:CB	1:D:181:GLU:HG2	1.79	1.11
1:A:263:ASN:HD21	1:A:265:LEU:HB2	1.16	1.11
1:A:434:TRP:CZ3	1:A:568:ARG:HA	1.86	1.11
1:B:646:ARG:HG3	1:B:647:GLN:HE22	0.95	1.11
1:E:473:THR:HG21	1:E:533:LEU:CD2	1.81	1.11
1:H:110:GLN:O	1:H:111:PHE:HB2	1.49	1.11
1:A:547:LEU:HD13	1:A:615:THR:CG2	1.81	1.11
1:F:179:CYS:CB	1:F:181:GLU:HG2	1.79	1.11
1:H:387:ILE:HD11	1:H:449:GLN:HG3	1.13	1.11
1:A:646:ARG:HG3	1:A:647:GLN:HE22	0.94	1.10
1:F:263:ASN:HD21	1:F:265:LEU:HB2	1.14	1.10
1:H:246:TYR:HD1	1:H:258:VAL:HB	1.03	1.10
1:H:189:LEU:HG	1:H:190:ALA:H	1.14	1.10
1:C:476:CYS:SG	1:C:477:GLU:OE2	2.09	1.10
1:H:134:ARG:HA	1:H:300:PHE:HZ	1.12	1.10
1:B:179:CYS:CB	1:B:181:GLU:HG2	1.81	1.10
1:D:262:PRO:HB3	1:D:409:SER:OG	1.52	1.10
1:F:434:TRP:CE3	1:F:568:ARG:HA	1.86	1.10
1:G:179:CYS:CB	1:G:181:GLU:HG2	1.80	1.10
1:A:646:ARG:HG3	1:A:647:GLN:NE2	1.65	1.10
1:B:246:TYR:HD1	1:B:258:VAL:HB	1.02	1.10
1:F:187:GLN:HB3	1:F:223:LEU:HD21	1.17	1.10
1:F:246:TYR:HD1	1:F:258:VAL:HB	1.04	1.10
1:F:646:ARG:HG3	1:F:647:GLN:HE22	0.95	1.10
1:G:219:PHE:O	1:G:220:ARG:HG2	1.52	1.10
1:C:189:LEU:HG	1:C:190:ALA:H	1.08	1.09
1:C:219:PHE:O	1:C:220:ARG:CG	2.00	1.09
1:C:646:ARG:HG3	1:C:647:GLN:HE22	0.93	1.09
1:E:185:THR:HG23	1:E:187:GLN:HG3	1.15	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:219:PHE:O	1:A:220:ARG:HG2	1.50	1.09
1:C:185:THR:HG23	1:C:187:GLN:HG3	1.15	1.09
1:C:654:LEU:CD2	1:D:654:LEU:CD2	2.28	1.09
1:H:434:TRP:HB3	1:H:571:TYR:CD1	1.87	1.09
1:A:111:PHE:HZ	1:A:572:ARG:HG3	1.15	1.09
1:A:246:TYR:HD1	1:A:258:VAL:HB	1.03	1.09
1:A:496:LYS:CB	1:B:655:TRP:HE1	1.64	1.09
1:B:547:LEU:HD13	1:B:614:LYS:CB	1.82	1.09
1:E:536:LYS:HB3	1:E:625:LEU:HD13	1.21	1.09
1:F:646:ARG:HG3	1:F:647:GLN:NE2	1.66	1.09
1:C:110:GLN:O	1:C:111:PHE:HB2	1.48	1.09
1:G:189:LEU:HG	1:G:190:ALA:H	1.13	1.09
1:D:219:PHE:O	1:D:220:ARG:CG	2.01	1.09
1:E:179:CYS:CB	1:E:181:GLU:HG2	1.80	1.09
1:F:219:PHE:O	1:F:220:ARG:CG	2.01	1.09
1:B:263:ASN:HD21	1:B:265:LEU:HB2	1.18	1.08
1:E:282:MET:HB2	1:E:286:ARG:HG3	1.36	1.08
1:D:434:TRP:HB3	1:D:571:TYR:CD1	1.88	1.08
1:H:219:PHE:O	1:H:220:ARG:HG2	1.51	1.08
1:A:666:ARG:HH12	1:B:502:GLU:HG3	1.15	1.08
1:B:219:PHE:O	1:B:220:ARG:CG	2.01	1.08
1:D:646:ARG:HG3	1:D:647:GLN:NE2	1.66	1.08
1:G:110:GLN:O	1:G:111:PHE:HB2	1.52	1.08
1:B:646:ARG:HG3	1:B:647:GLN:NE2	1.66	1.07
1:D:475:GLU:HG2	1:D:636:MET:HE1	1.35	1.07
1:E:547:LEU:HD13	1:E:615:THR:HG21	1.31	1.07
1:F:473:THR:HG21	1:F:533:LEU:HD22	1.09	1.07
1:A:665:VAL:HG13	1:B:665:VAL:HG13	1.35	1.07
1:E:646:ARG:HG3	1:E:647:GLN:NE2	1.65	1.07
1:D:110:GLN:O	1:D:111:PHE:HB2	1.53	1.07
1:G:434:TRP:CZ3	1:G:568:ARG:HA	1.89	1.07
1:H:570:LEU:HB3	1:H:590:MET:HE2	1.35	1.07
1:C:492:ILE:HG23	1:D:651:GLN:HE22	0.97	1.07
1:E:189:LEU:HG	1:E:190:ALA:H	1.08	1.07
1:F:110:GLN:O	1:F:111:PHE:HB2	1.50	1.07
1:A:189:LEU:HG	1:A:190:ALA:H	1.09	1.07
1:A:434:TRP:HB3	1:A:571:TYR:CD1	1.88	1.07
1:A:521:VAL:HA	1:A:524:CYS:SG	1.95	1.07
1:B:110:GLN:O	1:B:111:PHE:HB2	1.52	1.07
1:B:494:LEU:HD12	1:B:514:TRP:HE3	1.16	1.07
1:H:187:GLN:HB3	1:H:223:LEU:CD2	1.85	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:387:ILE:HD11	1:E:449:GLN:HG3	1.33	1.06
1:H:26:PHE:CE2	1:H:181:GLU:CD	2.33	1.06
1:B:187:GLN:HB3	1:B:223:LEU:CD2	1.85	1.06
1:C:263:ASN:HD21	1:C:265:LEU:HB2	1.17	1.06
1:C:655:TRP:HE1	1:D:496:LYS:HB2	0.93	1.06
1:F:118:LYS:HG2	1:F:264:HIS:O	1.54	1.06
1:D:473:THR:HG21	1:D:533:LEU:HD22	1.22	1.06
1:E:547:LEU:HD12	1:E:615:THR:HG22	1.29	1.06
1:E:646:ARG:HG3	1:E:647:GLN:HE22	0.94	1.06
1:H:434:TRP:CZ3	1:H:568:ARG:HA	1.88	1.06
1:A:282:MET:HB2	1:A:286:ARG:HG3	1.37	1.06
1:G:187:GLN:HB3	1:G:223:LEU:HD21	1.34	1.06
1:A:187:GLN:HB3	1:A:223:LEU:CD2	1.85	1.06
1:A:524:CYS:SG	1:A:643:VAL:CG1	2.43	1.06
1:B:476:CYS:SG	1:B:477:GLU:OE2	2.13	1.06
1:C:547:LEU:HD13	1:C:615:THR:CG2	1.84	1.06
1:F:419:ARG:H	1:F:420:PRO:HD3	1.20	1.06
1:F:497:TYR:CE2	1:F:511:LEU:HD22	1.91	1.06
1:G:187:GLN:HB3	1:G:223:LEU:CD2	1.86	1.06
1:A:570:LEU:HB3	1:A:590:MET:HE2	1.38	1.05
1:D:189:LEU:HG	1:D:190:ALA:H	1.09	1.05
1:F:187:GLN:HB3	1:F:223:LEU:CD2	1.84	1.05
1:A:479:LEU:HD12	1:A:640:GLU:HB3	1.38	1.05
1:C:492:ILE:HG23	1:D:651:GLN:NE2	1.70	1.05
1:E:422:THR:HB	1:E:585:GLY:CA	1.86	1.05
1:G:419:ARG:H	1:G:420:PRO:HD3	1.20	1.05
1:H:473:THR:HG21	1:H:533:LEU:HD22	1.38	1.05
1:A:486:PHE:HZ	1:A:517:MET:CE	1.70	1.05
1:C:434:TRP:CE3	1:C:568:ARG:HA	1.91	1.05
1:D:646:ARG:HG3	1:D:647:GLN:HE22	0.95	1.05
1:H:219:PHE:O	1:H:220:ARG:CG	2.05	1.05
1:H:419:ARG:H	1:H:420:PRO:HD3	1.20	1.05
1:C:187:GLN:HB3	1:C:223:LEU:CD2	1.87	1.05
1:C:419:ARG:H	1:C:420:PRO:HD3	1.20	1.05
1:E:110:GLN:O	1:E:111:PHE:HB2	1.51	1.05
1:A:219:PHE:O	1:A:220:ARG:CG	2.04	1.04
1:E:219:PHE:O	1:E:220:ARG:CG	2.03	1.04
1:G:263:ASN:HD21	1:G:265:LEU:HB2	1.16	1.04
1:H:263:ASN:HD21	1:H:265:LEU:HB2	1.16	1.04
1:B:419:ARG:H	1:B:420:PRO:HD3	1.20	1.04
1:E:134:ARG:HA	1:E:300:PHE:HZ	1.18	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:134:ARG:HA	1:F:300:PHE:HZ	1.18	1.04
1:H:134:ARG:HA	1:H:300:PHE:CZ	1.92	1.04
1:A:533:LEU:HD23	1:A:629:VAL:CG1	1.86	1.04
1:C:434:TRP:HB3	1:C:571:TYR:CD1	1.92	1.04
1:G:282:MET:HB2	1:G:286:ARG:HG3	1.37	1.04
1:B:517:MET:HG3	1:B:646:ARG:HH11	1.22	1.04
1:D:263:ASN:HD21	1:D:265:LEU:HB2	1.17	1.04
1:E:263:ASN:HD21	1:E:265:LEU:HB2	1.20	1.04
1:F:476:CYS:SG	1:F:477:GLU:OE2	2.15	1.04
1:H:26:PHE:CZ	1:H:179:CYS:HB3	1.91	1.04
1:B:179:CYS:HB2	1:B:181:GLU:HG2	1.05	1.04
1:C:533:LEU:HD23	1:C:629:VAL:HG11	1.39	1.04
1:E:547:LEU:HD13	1:E:615:THR:HG23	1.35	1.04
1:E:655:TRP:CE3	1:F:654:LEU:HD11	1.93	1.04
1:H:434:TRP:HZ3	1:H:568:ARG:HG3	1.23	1.04
1:C:533:LEU:HD23	1:C:629:VAL:CG1	1.86	1.03
1:B:282:MET:HB2	1:B:286:ARG:HG3	1.40	1.03
1:D:185:THR:CG2	1:D:187:GLN:HG3	1.89	1.03
1:E:502:GLU:HG3	1:F:666:ARG:NH1	1.73	1.03
1:G:179:CYS:HB2	1:G:181:GLU:HG2	1.04	1.03
1:C:651:GLN:HE22	1:D:492:ILE:HG23	1.18	1.03
1:A:110:GLN:O	1:A:111:PHE:HB2	1.51	1.03
1:A:179:CYS:HB2	1:A:181:GLU:HG2	1.04	1.03
1:C:249:LEU:HD23	1:C:252:ALA:HA	1.40	1.03
1:D:179:CYS:HB2	1:D:181:GLU:HG2	1.04	1.03
1:E:419:ARG:H	1:E:420:PRO:HD3	1.21	1.03
1:F:229:VAL:HG13	1:G:229:VAL:HG13	1.40	1.03
1:F:387:ILE:HD12	1:F:450:GLY:HA2	1.41	1.03
1:A:655:TRP:CE3	1:B:654:LEU:CD1	2.41	1.02
1:E:179:CYS:HB2	1:E:181:GLU:HG2	1.04	1.02
1:F:282:MET:HB2	1:F:286:ARG:HG3	1.37	1.02
1:G:249:LEU:HD23	1:G:252:ALA:HA	1.40	1.02
1:C:111:PHE:HZ	1:C:572:ARG:HG3	1.24	1.02
1:E:249:LEU:HD23	1:E:252:ALA:HA	1.40	1.02
1:A:249:LEU:HD23	1:A:252:ALA:HA	1.41	1.02
1:B:547:LEU:HD13	1:B:614:LYS:HB3	1.06	1.02
1:H:282:MET:HB2	1:H:286:ARG:HG3	1.40	1.02
1:A:654:LEU:CD2	1:B:654:LEU:HD21	1.87	1.02
1:C:492:ILE:CG2	1:D:651:GLN:HE22	1.72	1.02
1:D:249:LEU:HD23	1:D:252:ALA:HA	1.37	1.02
1:D:282:MET:HB2	1:D:286:ARG:HG3	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:419:ARG:H	1:D:420:PRO:HD3	1.21	1.02
1:E:134:ARG:HA	1:E:300:PHE:CZ	1.95	1.02
1:F:249:LEU:HD23	1:F:252:ALA:HA	1.38	1.02
1:A:419:ARG:H	1:A:420:PRO:HD3	1.20	1.01
1:A:422:THR:HB	1:A:585:GLY:CA	1.89	1.01
1:C:651:GLN:NE2	1:D:492:ILE:HG23	1.73	1.01
1:D:187:GLN:HB3	1:D:223:LEU:HD21	1.05	1.01
1:A:654:LEU:CD2	1:B:654:LEU:CD2	2.38	1.01
1:C:492:ILE:HD13	1:D:651:GLN:HE21	1.24	1.01
1:E:185:THR:CG2	1:E:187:GLN:HG3	1.89	1.01
1:H:118:LYS:HG2	1:H:264:HIS:O	1.58	1.01
1:A:229:VAL:HG13	1:D:229:VAL:HG13	1.39	1.01
1:B:118:LYS:HG2	1:B:264:HIS:O	1.60	1.01
1:B:550:ASN:HD21	1:B:611:GLN:CD	1.67	1.01
1:D:118:LYS:HG2	1:D:264:HIS:O	1.60	1.01
1:E:476:CYS:SG	1:E:477:GLU:OE2	2.19	1.01
1:B:249:LEU:HD23	1:B:252:ALA:HA	1.42	1.01
1:C:262:PRO:HB3	1:C:409:SER:OG	1.61	1.01
1:C:646:ARG:CG	1:C:647:GLN:HE22	1.73	1.01
1:G:219:PHE:O	1:G:220:ARG:CG	2.07	1.01
1:B:476:CYS:HB2	1:B:636:MET:SD	2.01	1.01
1:C:179:CYS:HB2	1:C:181:GLU:HG2	1.03	1.01
1:C:185:THR:CG2	1:C:187:GLN:HG3	1.89	1.01
1:C:521:VAL:HA	1:C:524:CYS:SG	2.01	1.01
1:E:530:VAL:HA	1:E:533:LEU:HD12	1.43	1.01
1:F:179:CYS:HB2	1:F:181:GLU:HG2	1.03	1.01
1:F:226:TRP:CD1	1:F:227:GLN:N	2.28	1.01
1:F:434:TRP:CZ3	1:F:568:ARG:HA	1.94	1.01
1:E:646:ARG:CG	1:E:647:GLN:HE22	1.74	1.00
1:H:179:CYS:HB2	1:H:181:GLU:HG2	1.03	1.00
1:B:185:THR:CG2	1:B:187:GLN:HG3	1.91	1.00
1:C:530:VAL:HA	1:C:533:LEU:HD12	1.43	1.00
1:H:226:TRP:CD1	1:H:227:GLN:N	2.28	1.00
1:C:226:TRP:CD1	1:C:227:GLN:N	2.29	1.00
1:F:646:ARG:CG	1:F:647:GLN:HE22	1.75	1.00
1:F:521:VAL:HA	1:F:524:CYS:SG	2.01	1.00
1:D:530:VAL:HA	1:D:533:LEU:HD12	1.43	1.00
1:F:262:PRO:HB3	1:F:409:SER:OG	1.61	1.00
1:A:118:LYS:HG2	1:A:264:HIS:O	1.61	1.00
1:F:524:CYS:SG	1:F:643:VAL:HG11	2.01	1.00
1:F:536:LYS:HB3	1:F:625:LEU:HD13	1.43	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:249:LEU:HD23	1:H:252:ALA:HA	1.40	1.00
1:C:655:TRP:HE1	1:D:496:LYS:CB	1.75	0.99
1:D:226:TRP:CD1	1:D:227:GLN:N	2.30	0.99
1:A:479:LEU:HB3	1:A:640:GLU:OE2	1.61	0.99
1:C:134:ARG:HA	1:C:300:PHE:HZ	1.21	0.99
1:C:282:MET:HB2	1:C:286:ARG:HG3	1.38	0.99
1:D:536:LYS:O	1:D:625:LEU:HD13	1.60	0.99
1:E:533:LEU:HD23	1:E:629:VAL:HG11	1.44	0.99
1:B:262:PRO:HB3	1:B:409:SER:OG	1.59	0.99
1:D:422:THR:HB	1:D:585:GLY:CA	1.91	0.99
1:G:434:TRP:HB3	1:G:571:TYR:CD1	1.96	0.99
1:F:185:THR:CG2	1:F:187:GLN:HG3	1.90	0.99
1:G:185:THR:CG2	1:G:187:GLN:HG3	1.90	0.99
1:G:530:VAL:HA	1:G:533:LEU:HD12	1.44	0.99
1:A:536:LYS:HB3	1:A:625:LEU:HD13	1.02	0.99
1:E:497:TYR:CE2	1:E:511:LEU:HD22	1.98	0.99
1:A:111:PHE:CZ	1:A:572:ARG:HG3	1.97	0.99
1:B:521:VAL:HA	1:B:524:CYS:SG	2.03	0.99
1:B:646:ARG:CG	1:B:647:GLN:HE22	1.75	0.99
1:C:434:TRP:CZ3	1:C:568:ARG:HA	1.97	0.99
1:B:226:TRP:CD1	1:B:227:GLN:N	2.31	0.99
1:C:479:LEU:HD11	1:C:641:LYS:HG3	1.44	0.99
1:H:111:PHE:HZ	1:H:572:ARG:HG3	1.27	0.99
1:G:359:LEU:HA	1:G:460:ARG:HH12	1.28	0.99
1:B:224:PRO:HG3	1:B:428:ARG:HH22	1.28	0.99
1:E:547:LEU:HD11	1:E:615:THR:HG22	1.41	0.99
1:A:486:PHE:CZ	1:A:517:MET:HE2	1.96	0.99
1:C:654:LEU:HD11	1:D:655:TRP:CE3	1.97	0.98
1:F:530:VAL:HA	1:F:533:LEU:HD12	1.42	0.98
1:A:646:ARG:CG	1:A:647:GLN:HE22	1.75	0.98
1:B:387:ILE:HD12	1:B:450:GLY:HA2	1.45	0.98
1:B:134:ARG:HA	1:B:300:PHE:HZ	1.27	0.98
1:B:494:LEU:HD21	1:B:518:GLU:OE2	1.64	0.98
1:G:473:THR:HG21	1:G:533:LEU:HD22	1.42	0.98
1:C:473:THR:HG21	1:C:533:LEU:CD2	1.93	0.98
1:F:570:LEU:HD23	1:F:590:MET:HG2	1.42	0.98
1:G:387:ILE:HG21	1:G:450:GLY:HA2	1.45	0.98
1:E:226:TRP:CD1	1:E:227:GLN:N	2.30	0.98
1:B:530:VAL:HA	1:B:533:LEU:HD12	1.44	0.98
1:D:26:PHE:CZ	1:D:179:CYS:HB3	1.99	0.98
1:H:185:THR:CG2	1:H:187:GLN:HG3	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:THR:CG2	1:A:187:GLN:HG3	1.94	0.97
1:F:434:TRP:HB3	1:F:571:TYR:CD1	1.99	0.97
1:A:533:LEU:HD23	1:A:629:VAL:HG11	1.46	0.97
1:H:434:TRP:HE3	1:H:568:ARG:HA	1.20	0.97
1:D:646:ARG:CG	1:D:647:GLN:HE22	1.76	0.97
1:H:530:VAL:HA	1:H:533:LEU:HD12	1.43	0.97
1:D:521:VAL:HA	1:D:524:CYS:SG	2.04	0.97
1:E:654:LEU:CD1	1:F:655:TRP:CE3	2.47	0.97
1:A:473:THR:HG21	1:A:533:LEU:HD22	1.46	0.97
1:F:473:THR:HG21	1:F:533:LEU:CD2	1.94	0.97
1:G:475:GLU:HG2	1:G:636:MET:HE1	1.00	0.97
1:A:530:VAL:HA	1:A:533:LEU:HD12	1.45	0.97
1:H:387:ILE:HG21	1:H:450:GLY:HA2	1.41	0.97
1:H:434:TRP:HD1	1:H:435:GLN:N	1.62	0.97
1:C:492:ILE:CG2	1:D:651:GLN:NE2	2.26	0.97
1:E:654:LEU:CD2	1:F:654:LEU:HD21	1.94	0.97
1:G:226:TRP:CD1	1:G:227:GLN:N	2.33	0.97
1:A:536:LYS:CB	1:A:625:LEU:HD13	1.95	0.96
1:F:443:ASP:O	1:F:446:ARG:HB2	1.64	0.96
1:A:547:LEU:HD13	1:A:615:THR:HG22	1.36	0.96
1:C:134:ARG:HA	1:C:300:PHE:CZ	2.00	0.96
1:A:226:TRP:CD1	1:A:227:GLN:N	2.33	0.96
1:C:26:PHE:CZ	1:C:179:CYS:HB3	2.00	0.96
1:B:473:THR:HG21	1:B:533:LEU:HD22	1.45	0.96
1:B:521:VAL:HG13	1:B:643:VAL:CG1	1.95	0.96
1:F:134:ARG:HA	1:F:300:PHE:CZ	2.00	0.96
1:B:434:TRP:HZ3	1:B:568:ARG:HA	1.30	0.96
1:A:134:ARG:HA	1:A:300:PHE:HZ	1.31	0.96
1:A:666:ARG:NH1	1:B:502:GLU:HG3	1.80	0.96
1:A:570:LEU:HB3	1:A:590:MET:CE	1.96	0.96
1:E:434:TRP:HD1	1:E:435:GLN:N	1.64	0.95
1:E:473:THR:HG21	1:E:533:LEU:HD22	1.47	0.95
1:A:563:LEU:HD21	1:A:596:LEU:HB2	1.48	0.95
1:D:441:LYS:HB2	1:D:560:LEU:CD2	1.96	0.95
1:D:434:TRP:CZ3	1:D:568:ARG:CA	2.49	0.95
1:E:262:PRO:HB3	1:E:409:SER:OG	1.66	0.95
1:E:521:VAL:HA	1:E:524:CYS:SG	2.06	0.95
1:B:550:ASN:ND2	1:B:611:GLN:CD	2.25	0.95
1:E:222:PHE:CE2	1:E:225:ASN:HB2	2.02	0.95
1:H:111:PHE:CZ	1:H:572:ARG:HG3	2.00	0.95
1:D:494:LEU:HD12	1:D:514:TRP:HE3	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:26:PHE:HE2	1:H:181:GLU:CD	1.69	0.95
1:F:111:PHE:HZ	1:F:572:ARG:HG3	1.31	0.95
1:A:262:PRO:HB3	1:A:409:SER:OG	1.66	0.95
1:B:222:PHE:CE2	1:B:225:ASN:HB2	2.02	0.94
1:A:655:TRP:HE3	1:B:654:LEU:HD11	1.31	0.94
1:D:219:PHE:C	1:D:220:ARG:HG3	1.91	0.94
1:B:494:LEU:HD12	1:B:514:TRP:CE3	2.02	0.94
1:H:193:LEU:HD22	1:H:231:TRP:CD1	2.02	0.94
1:A:17:MET:HB3	1:A:32:TRP:HB3	1.50	0.94
1:A:641:LYS:HB3	1:A:645:ARG:HH21	1.33	0.94
1:E:658:LEU:HD12	1:F:658:LEU:HD12	1.49	0.94
1:C:654:LEU:HD21	1:D:654:LEU:HD21	1.38	0.94
1:D:434:TRP:HD1	1:D:435:GLN:N	1.66	0.94
1:F:570:LEU:HB3	1:F:590:MET:CE	1.98	0.94
1:A:222:PHE:CE2	1:A:225:ASN:HB2	2.02	0.94
1:D:222:PHE:CE2	1:D:225:ASN:HB2	2.02	0.94
1:G:434:TRP:HD1	1:G:435:GLN:N	1.66	0.94
1:B:229:VAL:HG13	1:C:229:VAL:HG13	1.50	0.93
1:C:219:PHE:C	1:C:220:ARG:HG3	1.94	0.93
1:D:479:LEU:HD11	1:D:641:LYS:HG3	1.49	0.93
1:E:189:LEU:HG	1:E:190:ALA:N	1.82	0.93
1:G:222:PHE:CE2	1:G:225:ASN:HB2	2.03	0.93
1:H:222:PHE:CE2	1:H:225:ASN:HB2	2.03	0.93
1:A:219:PHE:C	1:A:220:ARG:HG3	1.94	0.93
1:B:134:ARG:HA	1:B:300:PHE:CZ	2.04	0.93
1:C:570:LEU:HB3	1:C:590:MET:HE2	1.51	0.93
1:E:654:LEU:HD21	1:F:654:LEU:CD2	1.98	0.93
1:F:517:MET:HG3	1:F:646:ARG:HH11	1.32	0.93
1:F:570:LEU:HB3	1:F:590:MET:HE2	1.51	0.93
1:F:641:LYS:HB3	1:F:645:ARG:HH21	1.34	0.93
1:H:327:VAL:HG11	1:H:367:LEU:HB2	1.50	0.93
1:C:473:THR:HG21	1:C:533:LEU:HD22	1.48	0.93
1:C:394:LYS:HG3	1:C:613:SER:HB2	1.49	0.92
1:H:434:TRP:HB3	1:H:571:TYR:HD1	1.33	0.92
1:A:658:LEU:HD12	1:B:658:LEU:HD12	1.51	0.92
1:B:434:TRP:CZ3	1:B:568:ARG:CA	2.52	0.92
1:C:497:TYR:CE2	1:C:511:LEU:HD22	2.04	0.92
1:B:434:TRP:HD1	1:B:435:GLN:N	1.67	0.92
1:D:430:TRP:HB3	1:D:571:TYR:HD2	1.30	0.92
1:E:229:VAL:HG13	1:H:229:VAL:HG13	1.49	0.92
1:F:219:PHE:C	1:F:220:ARG:HG3	1.91	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:641:LYS:HB3	1:B:645:ARG:HH21	1.33	0.92
1:E:563:LEU:HD21	1:E:596:LEU:HB2	1.51	0.92
1:F:327:VAL:HG11	1:F:367:LEU:HB2	1.50	0.92
1:E:434:TRP:HB3	1:E:571:TYR:CD1	2.05	0.92
1:D:434:TRP:HZ3	1:D:568:ARG:HA	1.26	0.91
1:B:17:MET:HB3	1:B:32:TRP:HB3	1.52	0.91
1:E:219:PHE:C	1:E:220:ARG:HG3	1.94	0.91
1:B:387:ILE:HG21	1:B:450:GLY:HA2	1.52	0.91
1:D:641:LYS:HB3	1:D:645:ARG:HH21	1.33	0.91
1:E:540:LEU:HD11	1:E:622:ALA:HB2	1.50	0.91
1:D:475:GLU:CG	1:D:636:MET:HE1	1.99	0.91
1:A:540:LEU:CD1	1:A:622:ALA:HB2	2.00	0.91
1:G:327:VAL:HG11	1:G:367:LEU:HB2	1.49	0.91
1:D:17:MET:HB3	1:D:32:TRP:HB3	1.50	0.91
1:A:153:LEU:HA	1:A:162:HIS:HB3	1.53	0.91
1:A:486:PHE:CZ	1:A:517:MET:CE	2.52	0.91
1:C:222:PHE:CE2	1:C:225:ASN:HB2	2.05	0.91
1:F:17:MET:HB3	1:F:32:TRP:HB3	1.53	0.91
1:B:219:PHE:C	1:B:220:ARG:HG3	1.91	0.91
1:E:153:LEU:HD23	1:E:162:HIS:ND1	1.85	0.91
1:A:179:CYS:HB2	1:A:181:GLU:CG	1.99	0.91
1:B:327:VAL:HG11	1:B:367:LEU:HB2	1.52	0.91
1:E:17:MET:HB3	1:E:32:TRP:HB3	1.51	0.91
1:F:387:ILE:CD1	1:F:450:GLY:HA2	1.99	0.91
1:H:26:PHE:HE2	1:H:181:GLU:OE1	1.54	0.91
1:A:570:LEU:CB	1:A:590:MET:HE2	2.01	0.91
1:D:387:ILE:HD11	1:D:449:GLN:HG3	1.52	0.91
1:A:327:VAL:HG11	1:A:367:LEU:HB2	1.50	0.90
1:C:179:CYS:HB2	1:C:181:GLU:CG	1.98	0.90
1:E:387:ILE:HD11	1:E:449:GLN:CG	2.00	0.90
1:G:17:MET:HB3	1:G:32:TRP:HB3	1.51	0.90
1:E:519:GLN:HA	1:E:522:GLU:HB2	1.52	0.90
1:G:219:PHE:C	1:G:220:ARG:HG3	1.97	0.90
1:B:153:LEU:HA	1:B:162:HIS:HB3	1.53	0.90
1:B:550:ASN:ND2	1:B:611:GLN:OE1	2.05	0.90
1:C:153:LEU:HD23	1:C:162:HIS:ND1	1.86	0.90
1:C:327:VAL:HG11	1:C:367:LEU:HB2	1.53	0.90
1:F:144:ARG:HD3	1:F:169:TYR:O	1.71	0.90
1:D:134:ARG:HA	1:D:300:PHE:HZ	1.37	0.90
1:E:570:LEU:HB3	1:E:590:MET:HE2	1.54	0.90
1:H:153:LEU:HA	1:H:162:HIS:HB3	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:519:GLN:HA	1:F:522:GLU:HB2	1.53	0.90
1:G:339:TRP:HA	1:G:342:GLN:HB2	1.52	0.90
1:F:387:ILE:HG21	1:F:450:GLY:HA2	1.51	0.90
1:A:150:ASN:HD22	1:A:167:LEU:HD12	1.37	0.90
1:C:153:LEU:HA	1:C:162:HIS:HB3	1.54	0.90
1:F:222:PHE:CE2	1:F:225:ASN:HB2	2.06	0.90
1:C:17:MET:HB3	1:C:32:TRP:HB3	1.51	0.90
1:D:327:VAL:HG11	1:D:367:LEU:HB2	1.51	0.90
1:E:654:LEU:CD2	1:F:654:LEU:CD2	2.50	0.90
1:G:125:LEU:HA	1:G:162:HIS:NE2	1.87	0.90
1:A:527:GLU:O	1:A:529:GLU:N	2.05	0.90
1:C:563:LEU:HD21	1:C:596:LEU:HB2	1.54	0.90
1:D:153:LEU:HA	1:D:162:HIS:HB3	1.54	0.90
1:H:219:PHE:C	1:H:220:ARG:HG3	1.95	0.90
1:A:434:TRP:HB3	1:A:571:TYR:HD1	1.37	0.89
1:B:26:PHE:CZ	1:B:179:CYS:HB3	2.06	0.89
1:B:230:GLN:C	1:B:232:HIS:H	1.80	0.89
1:C:419:ARG:HA	1:C:587:SER:OG	1.72	0.89
1:E:641:LYS:HB3	1:E:645:ARG:HH21	1.33	0.89
1:E:651:GLN:HE22	1:F:492:ILE:HG23	1.33	0.89
1:F:226:TRP:CG	1:F:227:GLN:H	1.90	0.89
1:H:17:MET:HB3	1:H:32:TRP:HB3	1.52	0.89
1:C:272:LYS:HG2	1:C:273:LEU:N	1.87	0.89
1:E:339:TRP:HA	1:E:342:GLN:HB2	1.54	0.89
1:F:153:LEU:HA	1:F:162:HIS:HB3	1.52	0.89
1:F:339:TRP:HA	1:F:342:GLN:HB2	1.52	0.89
1:F:434:TRP:HD1	1:F:435:GLN:N	1.70	0.89
1:F:153:LEU:HD23	1:F:162:HIS:ND1	1.86	0.89
1:A:536:LYS:HB3	1:A:625:LEU:CD1	1.97	0.89
1:D:18:LYS:HZ2	1:D:33:ILE:HD12	1.38	0.89
1:C:339:TRP:HA	1:C:342:GLN:HB2	1.55	0.89
1:D:153:LEU:HD23	1:D:162:HIS:ND1	1.88	0.89
1:H:434:TRP:CZ3	1:H:568:ARG:HG3	2.07	0.89
1:E:144:ARG:HD3	1:E:169:TYR:O	1.73	0.89
1:E:153:LEU:HA	1:E:162:HIS:HB3	1.52	0.89
1:E:272:LYS:HG2	1:E:273:LEU:N	1.87	0.89
1:B:111:PHE:HZ	1:B:572:ARG:HG3	1.34	0.89
1:C:434:TRP:HD1	1:C:435:GLN:N	1.70	0.89
1:E:118:LYS:CG	1:E:264:HIS:O	2.18	0.89
1:E:179:CYS:HB2	1:E:181:GLU:CG	2.00	0.89
1:F:230:GLN:C	1:F:232:HIS:H	1.81	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:444:CYS:C	1:F:446:ARG:H	1.80	0.89
1:H:125:LEU:HA	1:H:162:HIS:NE2	1.87	0.89
1:H:339:TRP:HA	1:H:342:GLN:HB2	1.53	0.89
1:A:189:LEU:HG	1:A:190:ALA:N	1.82	0.89
1:A:434:TRP:HE3	1:A:568:ARG:HA	1.36	0.89
1:B:153:LEU:HD23	1:B:162:HIS:ND1	1.87	0.89
1:D:179:CYS:HB2	1:D:181:GLU:CG	1.99	0.89
1:G:153:LEU:HA	1:G:162:HIS:HB3	1.54	0.89
1:G:153:LEU:HD23	1:G:162:HIS:ND1	1.86	0.89
1:C:459:LEU:HD11	1:C:548:GLN:OE1	1.73	0.89
1:A:576:GLU:OE2	1:B:573:ARG:NH2	2.06	0.88
1:B:519:GLN:HA	1:B:522:GLU:HB2	1.53	0.88
1:C:519:GLN:HA	1:C:522:GLU:HB2	1.53	0.88
1:H:153:LEU:HD23	1:H:162:HIS:ND1	1.87	0.88
1:A:502:GLU:HG3	1:B:666:ARG:NH1	1.89	0.88
1:A:579:ARG:NH2	1:D:580:ASP:HB3	1.88	0.88
1:B:144:ARG:HD3	1:B:169:TYR:O	1.73	0.88
1:C:651:GLN:NE2	1:D:492:ILE:CG2	2.35	0.88
1:D:144:ARG:HD3	1:D:169:TYR:O	1.74	0.88
1:D:339:TRP:HA	1:D:342:GLN:HB2	1.55	0.88
1:E:230:GLN:C	1:E:232:HIS:H	1.81	0.88
1:F:125:LEU:HA	1:F:162:HIS:NE2	1.87	0.88
1:F:529:GLU:HG3	1:F:633:MET:HE1	1.52	0.88
1:E:319:SER:OG	1:E:403:LEU:HB2	1.73	0.88
1:G:570:LEU:HB3	1:G:590:MET:HE2	1.54	0.88
1:C:480:LYS:CE	1:C:527:GLU:HB2	2.03	0.88
1:G:144:ARG:HD3	1:G:169:TYR:O	1.73	0.88
1:A:144:ARG:HD3	1:A:169:TYR:O	1.73	0.88
1:C:219:PHE:C	1:C:220:ARG:CG	2.43	0.88
1:C:230:GLN:C	1:C:232:HIS:H	1.81	0.88
1:C:658:LEU:HD12	1:D:658:LEU:HD12	1.56	0.88
1:B:125:LEU:HA	1:B:162:HIS:NE2	1.87	0.88
1:B:339:TRP:HA	1:B:342:GLN:HB2	1.54	0.88
1:C:641:LYS:HB3	1:C:645:ARG:HH21	1.36	0.88
1:F:533:LEU:CD2	1:F:629:VAL:HG13	2.04	0.88
1:D:519:GLN:HA	1:D:522:GLU:HB2	1.53	0.88
1:H:144:ARG:HD3	1:H:169:TYR:O	1.74	0.88
1:C:111:PHE:CZ	1:C:572:ARG:HG3	2.09	0.88
1:C:118:LYS:CG	1:C:264:HIS:O	2.21	0.88
1:D:226:TRP:CG	1:D:227:GLN:H	1.92	0.88
1:E:125:LEU:HA	1:E:162:HIS:NE2	1.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:189:LEU:HG	1:G:190:ALA:N	1.86	0.88
1:A:434:TRP:HD1	1:A:435:GLN:N	1.69	0.87
1:C:235:VAL:HG11	1:C:243:ILE:N	1.88	0.87
1:D:125:LEU:HA	1:D:162:HIS:NE2	1.88	0.87
1:F:235:VAL:HG11	1:F:243:ILE:N	1.88	0.87
1:A:529:GLU:HG3	1:A:633:MET:HE1	1.55	0.87
1:C:144:ARG:HD3	1:C:169:TYR:O	1.72	0.87
1:C:648:GLU:HB3	1:D:492:ILE:HD12	1.55	0.87
1:D:235:VAL:HG11	1:D:243:ILE:N	1.88	0.87
1:E:26:PHE:CZ	1:E:179:CYS:HB3	2.09	0.87
1:E:327:VAL:HG11	1:E:367:LEU:HB2	1.54	0.87
1:G:230:GLN:C	1:G:232:HIS:H	1.81	0.87
1:H:230:GLN:C	1:H:232:HIS:H	1.81	0.87
1:A:519:GLN:HA	1:A:522:GLU:HB2	1.54	0.87
1:C:368:THR:HA	1:C:371:VAL:HG23	1.57	0.87
1:H:179:CYS:HB2	1:H:181:GLU:CG	1.99	0.87
1:A:339:TRP:HA	1:A:342:GLN:HB2	1.54	0.87
1:D:189:LEU:HG	1:D:190:ALA:N	1.83	0.87
1:E:219:PHE:C	1:E:220:ARG:CG	2.45	0.87
1:F:179:CYS:HB2	1:F:181:GLU:CG	1.99	0.87
1:F:189:LEU:HG	1:F:190:ALA:N	1.85	0.87
1:E:434:TRP:CE3	1:E:568:ARG:HA	2.09	0.87
1:F:570:LEU:CB	1:F:590:MET:HE2	2.04	0.87
1:E:394:LYS:HG3	1:E:613:SER:HB2	1.56	0.87
1:A:153:LEU:HD23	1:A:162:HIS:ND1	1.88	0.87
1:B:246:TYR:HD1	1:B:258:VAL:CB	1.88	0.87
1:B:494:LEU:CD2	1:B:518:GLU:OE2	2.23	0.87
1:G:150:ASN:HD22	1:G:167:LEU:HD12	1.39	0.87
1:H:536:LYS:O	1:H:625:LEU:HD13	1.75	0.87
1:H:570:LEU:HB3	1:H:590:MET:CE	2.04	0.87
1:C:655:TRP:CE3	1:D:654:LEU:HD11	2.10	0.87
1:E:536:LYS:CB	1:E:625:LEU:HD13	2.04	0.87
1:B:517:MET:HG3	1:B:646:ARG:NH1	1.89	0.86
1:F:219:PHE:C	1:F:220:ARG:CG	2.45	0.86
1:H:235:VAL:HG11	1:H:243:ILE:N	1.89	0.86
1:B:500:GLN:HB3	1:B:505:ILE:HG12	1.57	0.86
1:C:644:VAL:HA	1:C:647:GLN:HE21	1.40	0.86
1:D:563:LEU:HD23	1:D:597:ALA:HB2	1.58	0.86
1:E:368:THR:HA	1:E:371:VAL:HG23	1.57	0.86
1:B:226:TRP:CG	1:B:227:GLN:H	1.93	0.86
1:H:134:ARG:HB2	1:H:300:PHE:CE1	2.10	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:134:ARG:HB2	1:H:300:PHE:HE1	1.37	0.86
1:H:571:TYR:CZ	1:H:590:MET:SD	2.69	0.86
1:A:134:ARG:HA	1:A:300:PHE:CZ	2.09	0.86
1:D:230:GLN:C	1:D:232:HIS:H	1.80	0.86
1:D:644:VAL:HA	1:D:647:GLN:HE21	1.39	0.86
1:H:226:TRP:CG	1:H:227:GLN:H	1.93	0.86
1:A:230:GLN:C	1:A:232:HIS:H	1.81	0.86
1:E:462:ASN:HD21	1:E:540:LEU:HB2	1.40	0.86
1:F:368:THR:HA	1:F:371:VAL:HG23	1.55	0.86
1:B:189:LEU:HG	1:B:190:ALA:N	1.83	0.86
1:G:434:TRP:HZ3	1:G:568:ARG:HG3	1.40	0.86
1:H:134:ARG:CA	1:H:300:PHE:HZ	1.87	0.86
1:H:150:ASN:HD22	1:H:167:LEU:HD12	1.41	0.86
1:A:368:THR:HA	1:A:371:VAL:HG23	1.57	0.86
1:B:235:VAL:HG11	1:B:243:ILE:N	1.90	0.86
1:D:497:TYR:CE2	1:D:511:LEU:HD22	2.10	0.86
1:E:473:THR:HG21	1:E:533:LEU:HD21	1.57	0.86
1:E:662:CYS:SG	1:F:661:ALA:HB1	2.16	0.86
1:F:272:LYS:HG2	1:F:273:LEU:N	1.88	0.86
1:F:644:VAL:HA	1:F:647:GLN:HE21	1.41	0.86
1:B:644:VAL:HA	1:B:647:GLN:HE21	1.40	0.86
1:G:368:THR:HA	1:G:371:VAL:HG23	1.57	0.86
1:G:434:TRP:HE3	1:G:568:ARG:HA	1.37	0.86
1:E:644:VAL:HA	1:E:647:GLN:HE21	1.41	0.86
1:C:497:TYR:CD2	1:C:497:TYR:O	2.28	0.85
1:E:226:TRP:CG	1:E:227:GLN:H	1.94	0.85
1:E:497:TYR:CD2	1:E:497:TYR:O	2.29	0.85
1:A:235:VAL:HG11	1:A:243:ILE:N	1.90	0.85
1:B:368:THR:HA	1:B:371:VAL:HG23	1.57	0.85
1:C:422:THR:HB	1:C:585:GLY:HA2	1.57	0.85
1:F:150:ASN:HD22	1:F:167:LEU:HD12	1.41	0.85
1:C:226:TRP:CG	1:C:227:GLN:H	1.94	0.85
1:E:235:VAL:HG11	1:E:243:ILE:N	1.90	0.85
1:E:658:LEU:CD1	1:F:658:LEU:HA	2.06	0.85
1:H:563:LEU:HD21	1:H:596:LEU:CB	2.07	0.85
1:A:497:TYR:O	1:A:497:TYR:CD2	2.30	0.85
1:B:394:LYS:HG2	1:B:401:ILE:N	1.91	0.85
1:C:125:LEU:HA	1:C:162:HIS:NE2	1.91	0.85
1:D:246:TYR:HD1	1:D:258:VAL:CB	1.89	0.85
1:E:111:PHE:HZ	1:E:572:ARG:HG3	1.41	0.85
1:D:187:GLN:CB	1:D:223:LEU:HD21	2.01	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:434:TRP:HZ3	1:B:568:ARG:CA	1.88	0.85
1:B:219:PHE:C	1:B:220:ARG:CG	2.44	0.85
1:B:434:TRP:HB3	1:B:571:TYR:HD1	1.40	0.85
1:B:497:TYR:CD2	1:B:497:TYR:O	2.30	0.85
1:B:500:GLN:CB	1:B:505:ILE:HG12	2.06	0.85
1:C:148:PRO:HD3	1:C:188:TYR:CE2	2.10	0.85
1:G:226:TRP:CG	1:G:227:GLN:H	1.94	0.85
1:H:387:ILE:HD11	1:H:449:GLN:CG	2.03	0.85
1:H:563:LEU:CD2	1:H:596:LEU:HB2	2.07	0.85
1:A:125:LEU:HA	1:A:162:HIS:NE2	1.90	0.85
1:D:368:THR:HA	1:D:371:VAL:HG23	1.57	0.85
1:C:480:LYS:HE3	1:C:527:GLU:HB2	1.57	0.85
1:A:510:LEU:HD13	1:A:653:GLU:O	1.77	0.85
1:A:644:VAL:HA	1:A:647:GLN:HE21	1.41	0.85
1:B:26:PHE:CE2	1:B:181:GLU:CD	2.55	0.85
1:D:150:ASN:HD22	1:D:167:LEU:HD12	1.42	0.85
1:D:434:TRP:HZ3	1:D:568:ARG:CA	1.85	0.85
1:A:502:GLU:HG3	1:B:666:ARG:HH11	1.42	0.84
1:B:387:ILE:CD1	1:B:450:GLY:HA2	2.05	0.84
1:C:189:LEU:HG	1:C:190:ALA:N	1.81	0.84
1:D:272:LYS:HG2	1:D:273:LEU:N	1.91	0.84
1:D:497:TYR:CD2	1:D:497:TYR:O	2.30	0.84
1:H:153:LEU:HD23	1:H:162:HIS:CG	2.12	0.84
1:H:368:THR:HA	1:H:371:VAL:HG23	1.56	0.84
1:C:533:LEU:CD2	1:C:629:VAL:CG1	2.54	0.84
1:E:153:LEU:HD23	1:E:162:HIS:CG	2.12	0.84
1:B:111:PHE:CZ	1:B:572:ARG:HG3	2.12	0.84
1:C:150:ASN:HD22	1:C:167:LEU:HD12	1.40	0.84
1:F:357:SER:HA	1:F:453:THR:HB	1.58	0.84
1:F:503:PHE:O	1:F:505:ILE:HG13	1.77	0.84
1:C:153:LEU:HD23	1:C:162:HIS:CG	2.12	0.84
1:E:26:PHE:CE2	1:E:181:GLU:CD	2.56	0.84
1:E:655:TRP:CE3	1:F:654:LEU:CD1	2.59	0.84
1:G:430:TRP:CE3	1:G:574:LEU:HD22	2.12	0.84
1:B:153:LEU:HD23	1:B:162:HIS:CG	2.13	0.84
1:E:170:ALA:O	1:E:172:GLU:N	2.11	0.84
1:H:434:TRP:CD1	1:H:435:GLN:N	2.45	0.84
1:H:402:SER:HA	1:H:609:TYR:CG	2.11	0.84
1:D:119:GLU:CB	1:D:121:PRO:HD2	2.08	0.84
1:E:134:ARG:HB2	1:E:300:PHE:HE1	1.43	0.84
1:E:492:ILE:HD13	1:F:651:GLN:HE21	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:235:VAL:HG11	1:G:243:ILE:N	1.91	0.84
1:H:246:TYR:HD1	1:H:258:VAL:CB	1.89	0.84
1:F:480:LYS:NZ	1:F:527:GLU:HB2	1.92	0.84
1:A:533:LEU:HD23	1:A:629:VAL:HG13	1.59	0.84
1:D:536:LYS:HB3	1:D:625:LEU:HD13	1.60	0.84
1:A:654:LEU:HD21	1:B:654:LEU:HD21	1.46	0.83
1:A:654:LEU:HD21	1:B:654:LEU:HD22	1.59	0.83
1:A:153:LEU:HD23	1:A:162:HIS:CG	2.13	0.83
1:E:249:LEU:HG	1:E:253:VAL:O	1.78	0.83
1:F:153:LEU:HD23	1:F:162:HIS:CG	2.13	0.83
1:B:394:LYS:HE2	1:B:401:ILE:HA	1.59	0.83
1:G:153:LEU:HD23	1:G:162:HIS:CG	2.13	0.83
1:G:246:TYR:HD1	1:G:258:VAL:CB	1.89	0.83
1:A:226:TRP:CG	1:A:227:GLN:H	1.96	0.83
1:B:150:ASN:HD22	1:B:167:LEU:HD12	1.41	0.83
1:A:148:PRO:HD3	1:A:188:TYR:CE2	2.14	0.83
1:D:219:PHE:C	1:D:220:ARG:CG	2.46	0.83
1:E:148:PRO:HD3	1:E:188:TYR:CE2	2.13	0.83
1:F:118:LYS:CG	1:F:264:HIS:O	2.26	0.83
1:H:219:PHE:C	1:H:220:ARG:CG	2.49	0.83
1:C:153:LEU:CD2	1:C:162:HIS:ND1	2.42	0.83
1:D:547:LEU:HD13	1:D:615:THR:HG22	1.60	0.83
1:E:150:ASN:HD22	1:E:167:LEU:HD12	1.41	0.83
1:F:220:ARG:HH12	1:F:223:LEU:HD22	1.43	0.83
1:G:272:LYS:HG2	1:G:273:LEU:N	1.93	0.83
1:B:217:THR:OG1	1:B:218:GLY:N	2.04	0.83
1:C:462:ASN:HD21	1:C:540:LEU:HB2	1.43	0.83
1:C:502:GLU:HG3	1:D:666:ARG:NH1	1.92	0.83
1:A:433:ILE:HB	1:A:571:TYR:CZ	2.14	0.83
1:A:496:LYS:HB2	1:B:655:TRP:HE1	0.75	0.83
1:C:26:PHE:HE2	1:C:181:GLU:OE1	1.62	0.83
1:F:148:PRO:HD3	1:F:188:TYR:CE2	2.12	0.83
1:H:189:LEU:HG	1:H:190:ALA:N	1.89	0.83
1:H:272:LYS:HG2	1:H:273:LEU:N	1.92	0.83
1:A:42:ALA:O	1:A:95:ALA:HA	1.79	0.83
1:D:153:LEU:HD23	1:D:162:HIS:CG	2.13	0.83
1:H:422:THR:HB	1:H:585:GLY:CA	2.08	0.83
1:C:540:LEU:CD1	1:C:622:ALA:HB2	2.09	0.83
1:C:655:TRP:CE3	1:D:654:LEU:CD1	2.61	0.83
1:D:441:LYS:HB2	1:D:560:LEU:HD22	1.60	0.83
1:E:26:PHE:HE2	1:E:181:GLU:OE1	1.61	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:153:LEU:CD2	1:E:162:HIS:ND1	2.41	0.83
1:F:263:ASN:ND2	1:F:265:LEU:HB2	1.93	0.83
1:F:422:THR:HB	1:F:585:GLY:CA	2.09	0.83
1:C:263:ASN:ND2	1:C:265:LEU:HB2	1.94	0.82
1:D:473:THR:HG21	1:D:533:LEU:CD2	2.07	0.82
1:G:263:ASN:ND2	1:G:265:LEU:HB2	1.95	0.82
1:G:475:GLU:OE2	1:G:637:ARG:HG3	1.79	0.82
1:A:236:ARG:NH2	1:D:231:TRP:CE3	2.47	0.82
1:B:521:VAL:HG13	1:B:643:VAL:HG12	1.59	0.82
1:C:245:VAL:HG12	1:C:246:TYR:H	1.44	0.82
1:C:515:ARG:HA	1:C:518:GLU:CD	2.04	0.82
1:A:357:SER:HB3	1:A:453:THR:HB	1.60	0.82
1:D:473:THR:CG2	1:D:533:LEU:HD22	2.09	0.82
1:E:533:LEU:HD23	1:E:629:VAL:CG1	2.10	0.82
1:F:500:GLN:HB3	1:F:505:ILE:HG12	1.61	0.82
1:G:402:SER:HA	1:G:609:TYR:CG	2.14	0.82
1:F:249:LEU:HG	1:F:253:VAL:O	1.78	0.82
1:F:521:VAL:HG13	1:F:643:VAL:HG12	1.61	0.82
1:G:170:ALA:O	1:G:172:GLU:N	2.11	0.82
1:D:570:LEU:CD2	1:D:590:MET:HE2	2.08	0.82
1:E:217:THR:OG1	1:E:218:GLY:N	2.08	0.82
1:F:246:TYR:HD1	1:F:258:VAL:CB	1.89	0.82
1:F:387:ILE:HD12	1:F:450:GLY:CA	2.08	0.82
1:B:148:PRO:HD3	1:B:188:TYR:CE2	2.15	0.82
1:E:422:THR:HB	1:E:585:GLY:C	2.03	0.82
1:G:219:PHE:C	1:G:220:ARG:CG	2.51	0.82
1:H:153:LEU:CD2	1:H:162:HIS:ND1	2.43	0.82
1:B:42:ALA:O	1:B:95:ALA:HA	1.79	0.82
1:C:430:TRP:HB3	1:C:571:TYR:HD2	1.45	0.82
1:D:148:PRO:HD3	1:D:188:TYR:CE2	2.14	0.82
1:D:387:ILE:HG21	1:D:450:GLY:HA2	1.60	0.82
1:H:263:ASN:ND2	1:H:265:LEU:HB2	1.94	0.82
1:C:119:GLU:CB	1:C:121:PRO:HD2	2.09	0.82
1:G:153:LEU:CD2	1:G:162:HIS:ND1	2.43	0.82
1:A:231:TRP:CE3	1:D:236:ARG:NH2	2.48	0.82
1:B:430:TRP:HB3	1:B:571:TYR:HD2	1.44	0.82
1:E:651:GLN:HE21	1:F:492:ILE:HD13	1.43	0.82
1:B:540:LEU:CD2	1:B:621:LYS:NZ	2.42	0.82
1:D:358:GLY:O	1:D:359:LEU:HB2	1.80	0.82
1:E:42:ALA:O	1:E:95:ALA:HA	1.78	0.82
1:F:134:ARG:HB2	1:F:300:PHE:CE1	2.15	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:220:ARG:HH12	1:G:223:LEU:HD22	1.44	0.82
1:H:253:VAL:HB	1:H:255:PHE:CZ	2.15	0.82
1:A:263:ASN:ND2	1:A:265:LEU:HB2	1.94	0.81
1:B:153:LEU:CD2	1:B:162:HIS:ND1	2.43	0.81
1:B:501:MET:HA	1:B:505:ILE:HD13	1.62	0.81
1:E:387:ILE:CD1	1:E:449:GLN:HG3	2.10	0.81
1:G:111:PHE:HZ	1:G:572:ARG:CG	1.90	0.81
1:G:179:CYS:HB2	1:G:181:GLU:CG	1.99	0.81
1:G:217:THR:OG1	1:G:218:GLY:N	2.12	0.81
1:G:473:THR:CG2	1:G:633:MET:HG3	2.10	0.81
1:H:262:PRO:HB3	1:H:409:SER:OG	1.80	0.81
1:A:170:ALA:O	1:A:172:GLU:N	2.13	0.81
1:A:249:LEU:HG	1:A:253:VAL:O	1.80	0.81
1:B:479:LEU:C	1:B:640:GLU:OE2	2.24	0.81
1:B:527:GLU:C	1:B:529:GLU:H	1.87	0.81
1:D:42:ALA:O	1:D:95:ALA:HA	1.80	0.81
1:A:533:LEU:CD2	1:A:629:VAL:CG1	2.57	0.81
1:D:153:LEU:CD2	1:D:162:HIS:ND1	2.44	0.81
1:F:18:LYS:HZ2	1:F:33:ILE:HD12	1.44	0.81
1:F:42:ALA:O	1:F:95:ALA:HA	1.80	0.81
1:F:220:ARG:NH1	1:F:223:LEU:HD22	1.95	0.81
1:F:282:MET:CB	1:F:286:ARG:HG3	2.11	0.81
1:G:282:MET:CB	1:G:286:ARG:HG3	2.11	0.81
1:D:322:VAL:HG12	1:D:323:HIS:H	1.43	0.81
1:E:253:VAL:HB	1:E:255:PHE:CZ	2.15	0.81
1:C:42:ALA:O	1:C:95:ALA:HA	1.80	0.81
1:C:655:TRP:CD1	1:D:496:LYS:HB2	2.16	0.81
1:E:134:ARG:CA	1:E:300:PHE:HZ	1.94	0.81
1:E:434:TRP:CD1	1:E:435:GLN:N	2.48	0.81
1:A:65:MET:HE3	1:A:96:MET:HE1	1.63	0.81
1:B:170:ALA:O	1:B:172:GLU:N	2.14	0.81
1:B:272:LYS:HG2	1:B:273:LEU:N	1.93	0.81
1:C:26:PHE:CE2	1:C:181:GLU:CD	2.58	0.81
1:D:170:ALA:O	1:D:172:GLU:N	2.14	0.81
1:D:515:ARG:HA	1:D:518:GLU:CD	2.04	0.81
1:E:423:TYR:CE2	1:E:425:HIS:HB2	2.16	0.81
1:H:423:TYR:CE2	1:H:425:HIS:HB2	2.15	0.81
1:A:493:ASP:HB3	1:A:514:TRP:CH2	2.16	0.81
1:B:249:LEU:HG	1:B:253:VAL:O	1.79	0.81
1:C:170:ALA:O	1:C:172:GLU:N	2.14	0.81
1:D:423:TYR:CE2	1:D:425:HIS:HB2	2.15	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:245:VAL:HG12	1:E:246:TYR:H	1.44	0.81
1:E:661:ALA:HB1	1:F:662:CYS:SG	2.20	0.81
1:F:423:TYR:CE2	1:F:425:HIS:HB2	2.16	0.81
1:H:434:TRP:HZ3	1:H:568:ARG:CG	1.94	0.81
1:C:651:GLN:HE21	1:D:492:ILE:HD13	1.46	0.81
1:E:282:MET:CB	1:E:286:ARG:HG3	2.11	0.81
1:E:547:LEU:HD22	1:E:611:GLN:HG2	1.63	0.81
1:E:571:TYR:CZ	1:E:590:MET:SD	2.73	0.81
1:B:179:CYS:HB2	1:B:181:GLU:CG	2.01	0.81
1:B:494:LEU:HD13	1:B:514:TRP:HB3	1.63	0.81
1:C:357:SER:HB3	1:C:453:THR:HB	1.63	0.81
1:E:515:ARG:HA	1:E:518:GLU:CD	2.06	0.81
1:H:220:ARG:HH12	1:H:223:LEU:HD22	1.46	0.81
1:H:249:LEU:HG	1:H:253:VAL:O	1.80	0.81
1:A:272:LYS:HG2	1:A:273:LEU:N	1.94	0.80
1:C:423:TYR:CE2	1:C:425:HIS:HB2	2.17	0.80
1:H:42:ALA:O	1:H:95:ALA:HA	1.80	0.80
1:H:148:PRO:HD3	1:H:188:TYR:CE2	2.15	0.80
1:A:153:LEU:CD2	1:A:162:HIS:ND1	2.44	0.80
1:A:423:TYR:CE2	1:A:425:HIS:HB2	2.16	0.80
1:B:423:TYR:CE2	1:B:425:HIS:HB2	2.16	0.80
1:C:249:LEU:HG	1:C:253:VAL:O	1.80	0.80
1:F:134:ARG:HB2	1:F:300:PHE:HE1	1.44	0.80
1:F:153:LEU:CD2	1:F:162:HIS:ND1	2.43	0.80
1:F:322:VAL:HG12	1:F:323:HIS:H	1.45	0.80
1:G:387:ILE:HD11	1:G:449:GLN:HG3	1.60	0.80
1:B:515:ARG:HA	1:B:518:GLU:CD	2.06	0.80
1:C:494:LEU:HD12	1:C:514:TRP:HE3	1.46	0.80
1:F:111:PHE:CZ	1:F:572:ARG:HG3	2.16	0.80
1:G:249:LEU:HG	1:G:253:VAL:O	1.80	0.80
1:D:475:GLU:HG2	1:D:636:MET:CE	2.10	0.80
1:G:423:TYR:CE2	1:G:425:HIS:HB2	2.16	0.80
1:B:563:LEU:HD21	1:B:596:LEU:HB2	1.62	0.80
1:D:588:ASN:CG	1:D:589:ASP:H	1.89	0.80
1:F:515:ARG:HA	1:F:518:GLU:CD	2.07	0.80
1:H:170:ALA:O	1:H:172:GLU:N	2.14	0.80
1:D:249:LEU:HG	1:D:253:VAL:O	1.82	0.80
1:D:570:LEU:HD23	1:D:590:MET:HG2	1.64	0.80
1:E:65:MET:HE3	1:E:96:MET:HE1	1.64	0.80
1:E:434:TRP:CZ3	1:E:568:ARG:HA	2.17	0.80
1:G:434:TRP:CD1	1:G:435:GLN:N	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:253:VAL:HB	1:B:255:PHE:CZ	2.16	0.80
1:F:497:TYR:CD2	1:F:497:TYR:O	2.35	0.80
1:G:282:MET:HB2	1:G:286:ARG:CG	2.12	0.80
1:G:322:VAL:HG12	1:G:323:HIS:H	1.47	0.80
1:A:282:MET:HB2	1:A:286:ARG:CG	2.12	0.80
1:E:246:TYR:HD1	1:E:258:VAL:CB	1.91	0.80
1:F:170:ALA:O	1:F:172:GLU:N	2.14	0.80
1:F:358:GLY:O	1:F:359:LEU:HB2	1.81	0.80
1:G:134:ARG:HA	1:G:300:PHE:CZ	2.17	0.80
1:G:148:PRO:HD3	1:G:188:TYR:CE2	2.16	0.80
1:A:219:PHE:C	1:A:220:ARG:CG	2.49	0.80
1:A:588:ASN:CG	1:A:589:ASP:H	1.89	0.80
1:C:433:ILE:HB	1:C:571:TYR:CZ	2.16	0.80
1:D:434:TRP:CD1	1:D:435:GLN:N	2.50	0.80
1:H:402:SER:HA	1:H:609:TYR:CD1	2.17	0.80
1:H:433:ILE:HB	1:H:571:TYR:CZ	2.17	0.80
1:A:282:MET:CB	1:A:286:ARG:HG3	2.11	0.79
1:A:515:ARG:HA	1:A:518:GLU:CD	2.07	0.79
1:D:134:ARG:HA	1:D:300:PHE:CZ	2.17	0.79
1:E:119:GLU:CB	1:E:121:PRO:HD2	2.12	0.79
1:G:42:ALA:O	1:G:95:ALA:HA	1.81	0.79
1:G:134:ARG:HA	1:G:300:PHE:HZ	1.45	0.79
1:A:579:ARG:HH22	1:D:580:ASP:HB3	1.47	0.79
1:B:245:VAL:HG12	1:B:246:TYR:H	1.47	0.79
1:D:263:ASN:ND2	1:D:265:LEU:HB2	1.95	0.79
1:D:282:MET:CB	1:D:286:ARG:HG3	2.12	0.79
1:H:473:THR:CG2	1:H:533:LEU:HD22	2.13	0.79
1:A:246:TYR:HD1	1:A:258:VAL:CB	1.89	0.79
1:A:655:TRP:NE1	1:B:496:LYS:HB2	1.95	0.79
1:E:358:GLY:O	1:E:359:LEU:HB2	1.81	0.79
1:E:658:LEU:HD12	1:F:658:LEU:HA	1.63	0.79
1:F:282:MET:HB2	1:F:286:ARG:CG	2.12	0.79
1:G:65:MET:HE3	1:G:96:MET:HE1	1.65	0.79
1:H:570:LEU:CB	1:H:590:MET:HE2	2.10	0.79
1:C:497:TYR:N	1:D:655:TRP:HZ2	1.80	0.79
1:E:263:ASN:ND2	1:E:265:LEU:HB2	1.98	0.79
1:F:357:SER:HB3	1:F:453:THR:HA	1.64	0.79
1:G:419:ARG:H	1:G:420:PRO:CD	1.95	0.79
1:B:220:ARG:NH1	1:B:223:LEU:HD22	1.98	0.79
1:C:422:THR:HB	1:C:585:GLY:HA3	1.62	0.79
1:C:547:LEU:HD13	1:C:615:THR:HG22	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:547:LEU:HD12	1:C:615:THR:HG22	1.61	0.79
1:D:438:ARG:HG2	1:D:564:GLU:HG3	1.63	0.79
1:A:358:GLY:O	1:A:359:LEU:HB2	1.80	0.79
1:B:220:ARG:HH12	1:B:223:LEU:HD22	1.46	0.79
1:C:134:ARG:HB2	1:C:300:PHE:HE1	1.46	0.79
1:F:119:GLU:CB	1:F:121:PRO:HD2	2.13	0.79
1:F:533:LEU:HD23	1:F:629:VAL:HG13	1.62	0.79
1:H:588:ASN:CG	1:H:589:ASP:H	1.89	0.79
1:C:120:GLY:O	1:C:124:THR:N	2.14	0.79
1:C:570:LEU:HB3	1:C:590:MET:CE	2.12	0.79
1:G:220:ARG:NH1	1:G:223:LEU:HD22	1.95	0.79
1:H:235:VAL:HB	1:H:243:ILE:HA	1.65	0.79
1:A:322:VAL:HG12	1:A:323:HIS:H	1.47	0.79
1:B:322:VAL:HG12	1:B:323:HIS:H	1.47	0.79
1:B:441:LYS:HB2	1:B:560:LEU:CD2	2.12	0.79
1:C:246:TYR:HD1	1:C:258:VAL:CB	1.90	0.79
1:D:253:VAL:HB	1:D:255:PHE:CZ	2.18	0.79
1:F:533:LEU:HD23	1:F:629:VAL:CG1	2.13	0.79
1:G:358:GLY:O	1:G:359:LEU:HB2	1.82	0.79
1:A:434:TRP:HZ3	1:A:568:ARG:HG3	1.47	0.79
1:A:570:LEU:HD23	1:A:590:MET:HG2	1.64	0.79
1:B:422:THR:HB	1:B:585:GLY:CA	2.13	0.79
1:C:235:VAL:HB	1:C:243:ILE:HA	1.64	0.79
1:C:322:VAL:HG12	1:C:323:HIS:H	1.48	0.79
1:E:419:ARG:HA	1:E:587:SER:OG	1.81	0.79
1:H:358:GLY:O	1:H:359:LEU:HB2	1.82	0.79
1:A:409:SER:CB	1:A:412:ILE:HD12	2.13	0.79
1:D:220:ARG:HH12	1:D:223:LEU:HD22	1.47	0.79
1:E:651:GLN:NE2	1:F:492:ILE:HG23	1.97	0.79
1:B:500:GLN:C	1:B:505:ILE:HG12	2.08	0.78
1:C:134:ARG:CA	1:C:300:PHE:HZ	1.96	0.78
1:C:358:GLY:O	1:C:359:LEU:HB2	1.81	0.78
1:D:26:PHE:CE2	1:D:181:GLU:CD	2.61	0.78
1:D:245:VAL:HG12	1:D:246:TYR:H	1.47	0.78
1:D:637:ARG:O	1:D:641:LYS:HB2	1.81	0.78
1:E:134:ARG:HB2	1:E:300:PHE:CE1	2.17	0.78
1:F:65:MET:HE3	1:F:96:MET:HE1	1.65	0.78
1:G:409:SER:CB	1:G:412:ILE:HD12	2.13	0.78
1:D:433:ILE:HB	1:D:571:TYR:CZ	2.19	0.78
1:E:494:LEU:HD12	1:E:514:TRP:HE3	1.46	0.78
1:F:434:TRP:HE3	1:F:568:ARG:HA	1.44	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:217:THR:OG1	1:H:218:GLY:N	2.08	0.78
1:B:282:MET:CB	1:B:286:ARG:HG3	2.14	0.78
1:C:220:ARG:HH12	1:C:223:LEU:HD22	1.47	0.78
1:D:119:GLU:HB3	1:D:121:PRO:HD2	1.66	0.78
1:D:660:ILE:HG22	1:D:661:ALA:H	1.49	0.78
1:E:120:GLY:O	1:E:124:THR:N	2.16	0.78
1:E:322:VAL:HG12	1:E:323:HIS:H	1.46	0.78
1:F:419:ARG:H	1:F:420:PRO:CD	1.97	0.78
1:H:451:GLN:CD	1:H:611:GLN:NE2	2.41	0.78
1:C:119:GLU:HB3	1:C:121:PRO:HD2	1.64	0.78
1:D:120:GLY:O	1:D:124:THR:N	2.17	0.78
1:D:475:GLU:CD	1:D:636:MET:HE1	2.09	0.78
1:A:580:ASP:HB3	1:D:579:ARG:NH2	1.98	0.78
1:D:235:VAL:HB	1:D:243:ILE:HA	1.65	0.78
1:D:319:SER:OG	1:D:403:LEU:HB2	1.83	0.78
1:E:409:SER:CB	1:E:412:ILE:HD12	2.14	0.78
1:F:473:THR:CG2	1:F:533:LEU:HD22	2.04	0.78
1:G:394:LYS:HE3	1:G:609:TYR:O	1.83	0.78
1:G:588:ASN:CG	1:G:589:ASP:H	1.91	0.78
1:H:65:MET:HE3	1:H:96:MET:HE1	1.65	0.78
1:G:245:VAL:HG12	1:G:246:TYR:H	1.48	0.78
1:C:282:MET:HB2	1:C:286:ARG:CG	2.13	0.78
1:F:253:VAL:HB	1:F:255:PHE:CZ	2.19	0.78
1:B:434:TRP:CD1	1:B:435:GLN:N	2.51	0.78
1:B:571:TYR:CZ	1:B:590:MET:SD	2.77	0.78
1:D:65:MET:HE3	1:D:96:MET:HE1	1.64	0.78
1:D:422:THR:HB	1:D:585:GLY:C	2.09	0.78
1:F:359:LEU:HA	1:F:460:ARG:HH12	1.49	0.78
1:B:263:ASN:ND2	1:B:265:LEU:HB2	1.96	0.78
1:F:134:ARG:CA	1:F:300:PHE:HZ	1.93	0.78
1:H:434:TRP:CZ3	1:H:568:ARG:CA	2.64	0.78
1:C:254:LYS:C	1:C:255:PHE:CG	2.62	0.77
1:C:282:MET:CB	1:C:286:ARG:HG3	2.13	0.77
1:D:547:LEU:CD1	1:D:615:THR:HG22	2.13	0.77
1:H:419:ARG:H	1:H:420:PRO:CD	1.97	0.77
1:G:120:GLY:O	1:G:124:THR:N	2.17	0.77
1:A:220:ARG:HH12	1:A:223:LEU:HD22	1.46	0.77
1:B:65:MET:HE3	1:B:96:MET:HE1	1.64	0.77
1:B:185:THR:HG23	1:B:187:GLN:CG	2.09	0.77
1:C:409:SER:CB	1:C:412:ILE:HD12	2.15	0.77
1:C:419:ARG:H	1:C:420:PRO:CD	1.97	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:282:MET:HB2	1:H:286:ARG:CG	2.14	0.77
1:A:510:LEU:HD12	1:A:657:LEU:CD1	2.14	0.77
1:B:387:ILE:HD12	1:B:450:GLY:CA	2.14	0.77
1:D:434:TRP:HB3	1:D:571:TYR:HD1	1.43	0.77
1:D:660:ILE:CG2	1:D:661:ALA:N	2.48	0.77
1:H:219:PHE:O	1:H:220:ARG:HG3	1.84	0.77
1:A:533:LEU:CD2	1:A:629:VAL:HG13	2.15	0.77
1:B:419:ARG:H	1:B:420:PRO:CD	1.96	0.77
1:B:476:CYS:CB	1:B:636:MET:SD	2.72	0.77
1:C:547:LEU:CD1	1:C:615:THR:CG2	2.51	0.77
1:D:249:LEU:CD2	1:D:252:ALA:HA	2.15	0.77
1:F:249:LEU:CD2	1:F:252:ALA:HA	2.15	0.77
1:A:245:VAL:HG12	1:A:246:TYR:H	1.48	0.77
1:A:387:ILE:HD11	1:A:449:GLN:HG3	1.67	0.77
1:B:282:MET:HB2	1:B:286:ARG:CG	2.14	0.77
1:C:65:MET:HE3	1:C:96:MET:HE1	1.64	0.77
1:E:220:ARG:HH12	1:E:223:LEU:HD22	1.49	0.77
1:E:272:LYS:HB2	1:E:306:ILE:CG2	2.15	0.77
1:G:253:VAL:HB	1:G:255:PHE:CZ	2.20	0.77
1:H:466:SER:HB3	1:H:537:MET:HE1	1.66	0.77
1:B:119:GLU:CB	1:B:121:PRO:HD2	2.14	0.77
1:E:254:LYS:C	1:E:255:PHE:CG	2.62	0.77
1:E:492:ILE:HG23	1:F:651:GLN:HE22	1.48	0.77
1:H:220:ARG:NH1	1:H:223:LEU:HD22	1.99	0.77
1:H:245:VAL:HG12	1:H:246:TYR:H	1.49	0.77
1:A:253:VAL:HB	1:A:255:PHE:CZ	2.20	0.77
1:A:529:GLU:HG3	1:A:633:MET:CE	2.14	0.77
1:C:588:ASN:CG	1:C:589:ASP:H	1.92	0.77
1:H:282:MET:CB	1:H:286:ARG:HG3	2.13	0.77
1:A:120:GLY:O	1:A:124:THR:N	2.18	0.77
1:A:217:THR:OG1	1:A:218:GLY:N	2.12	0.77
1:C:134:ARG:HB2	1:C:300:PHE:CE1	2.19	0.77
1:C:434:TRP:HE3	1:C:568:ARG:HA	1.50	0.77
1:D:441:LYS:HD2	1:D:561:ASP:OD1	1.84	0.77
1:F:235:VAL:HB	1:F:243:ILE:HA	1.67	0.77
1:F:588:ASN:CG	1:F:589:ASP:H	1.93	0.77
1:C:193:LEU:HB2	1:C:196:GLN:HE22	1.48	0.77
1:C:422:THR:HB	1:C:585:GLY:C	2.09	0.77
1:D:282:MET:HB2	1:D:286:ARG:CG	2.13	0.77
1:E:588:ASN:CG	1:E:589:ASP:H	1.92	0.77
1:F:26:PHE:CZ	1:F:179:CYS:HB3	2.19	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:118:LYS:CG	1:H:264:HIS:O	2.31	0.77
1:H:409:SER:CB	1:H:412:ILE:HD12	2.15	0.77
1:H:582:ARG:H	1:H:582:ARG:HD2	1.49	0.77
1:A:219:PHE:O	1:A:220:ARG:HG3	1.85	0.76
1:C:220:ARG:NH1	1:C:223:LEU:HD22	1.99	0.76
1:C:253:VAL:HB	1:C:255:PHE:CZ	2.20	0.76
1:C:582:ARG:H	1:C:582:ARG:HD2	1.50	0.76
1:D:433:ILE:HB	1:D:571:TYR:OH	1.84	0.76
1:D:536:LYS:HB3	1:D:625:LEU:CD1	2.16	0.76
1:F:245:VAL:HG12	1:F:246:TYR:H	1.48	0.76
1:G:402:SER:HA	1:G:609:TYR:CD1	2.20	0.76
1:C:107:TYR:O	1:C:110:GLN:N	2.18	0.76
1:C:185:THR:HG23	1:C:187:GLN:CG	2.08	0.76
1:E:220:ARG:NH1	1:E:223:LEU:HD22	1.99	0.76
1:E:282:MET:HB2	1:E:286:ARG:CG	2.11	0.76
1:F:272:LYS:HB2	1:F:306:ILE:CG2	2.15	0.76
1:F:409:SER:CB	1:F:412:ILE:HD12	2.14	0.76
1:A:235:VAL:HB	1:A:243:ILE:HA	1.66	0.76
1:A:419:ARG:H	1:A:420:PRO:CD	1.97	0.76
1:B:120:GLY:O	1:B:124:THR:N	2.18	0.76
1:C:434:TRP:CD1	1:C:435:GLN:N	2.54	0.76
1:G:272:LYS:HB2	1:G:306:ILE:CG2	2.16	0.76
1:G:359:LEU:HA	1:G:460:ARG:NH1	2.00	0.76
1:G:570:LEU:HB3	1:G:590:MET:CE	2.15	0.76
1:A:220:ARG:NH1	1:A:223:LEU:HD22	2.00	0.76
1:A:422:THR:HB	1:A:585:GLY:HA2	1.64	0.76
1:B:409:SER:CB	1:B:412:ILE:HD12	2.15	0.76
1:C:272:LYS:HB2	1:C:306:ILE:CG2	2.15	0.76
1:H:193:LEU:HB2	1:H:196:GLN:HE22	1.49	0.76
1:B:235:VAL:HB	1:B:243:ILE:HA	1.67	0.76
1:B:358:GLY:O	1:B:359:LEU:HB2	1.83	0.76
1:C:485:PHE:CE2	1:D:485:PHE:CB	2.69	0.76
1:D:220:ARG:NH1	1:D:223:LEU:HD22	1.98	0.76
1:F:521:VAL:HG22	1:F:643:VAL:CG1	2.15	0.76
1:A:107:TYR:CD1	1:A:153:LEU:HD12	2.21	0.76
1:A:230:GLN:C	1:A:232:HIS:N	2.43	0.76
1:B:254:LYS:C	1:B:255:PHE:CG	2.64	0.76
1:C:286:ARG:HA	1:C:290:THR:HG22	1.67	0.76
1:D:419:ARG:H	1:D:420:PRO:CD	1.97	0.76
1:H:434:TRP:CD1	1:H:434:TRP:C	2.64	0.76
1:D:430:TRP:HB3	1:D:571:TYR:CD2	2.17	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:119:GLU:HB3	1:F:121:PRO:HD2	1.68	0.76
1:G:235:VAL:HB	1:G:243:ILE:HA	1.68	0.76
1:G:434:TRP:HB3	1:G:571:TYR:HD1	1.49	0.76
1:A:316:ASN:O	1:A:388:PHE:O	2.04	0.76
1:B:26:PHE:HE2	1:B:181:GLU:CD	1.92	0.76
1:C:434:TRP:HB3	1:C:571:TYR:HD1	1.44	0.76
1:D:272:LYS:HB2	1:D:306:ILE:CG2	2.16	0.76
1:D:570:LEU:HB3	1:D:590:MET:CE	2.15	0.76
1:E:655:TRP:HE1	1:F:496:LYS:HB2	0.67	0.76
1:E:661:ALA:O	1:F:661:ALA:O	2.04	0.76
1:F:563:LEU:HD21	1:F:596:LEU:HB2	1.68	0.76
1:G:119:GLU:CB	1:G:121:PRO:HD2	2.16	0.76
1:H:248:ASP:C	1:H:248:ASP:OD1	2.29	0.76
1:A:473:THR:HG21	1:A:533:LEU:CD2	2.14	0.76
1:C:573:ARG:HH22	1:D:573:ARG:HH12	1.31	0.76
1:C:573:ARG:NH2	1:D:573:ARG:HH12	1.84	0.76
1:D:185:THR:HG23	1:D:187:GLN:CG	2.07	0.76
1:E:419:ARG:H	1:E:420:PRO:CD	1.98	0.76
1:E:658:LEU:HA	1:F:658:LEU:CD1	2.16	0.76
1:A:186:LEU:O	1:A:188:TYR:N	2.18	0.76
1:B:476:CYS:HA	1:B:636:MET:SD	2.25	0.76
1:E:107:TYR:CD1	1:E:153:LEU:HD12	2.21	0.76
1:H:119:GLU:CB	1:H:121:PRO:HD2	2.16	0.76
1:B:588:ASN:CG	1:B:589:ASP:H	1.91	0.75
1:C:662:CYS:SG	1:D:661:ALA:HB1	2.27	0.75
1:E:249:LEU:CD2	1:E:252:ALA:HA	2.16	0.75
1:E:666:ARG:NH1	1:F:502:GLU:HG3	2.01	0.75
1:F:193:LEU:HD22	1:F:231:TRP:CD1	2.21	0.75
1:A:118:LYS:CG	1:A:264:HIS:O	2.32	0.75
1:A:434:TRP:CD1	1:A:435:GLN:N	2.53	0.75
1:A:476:CYS:HB2	1:A:636:MET:SD	2.26	0.75
1:F:327:VAL:HG11	1:F:367:LEU:CB	2.16	0.75
1:F:475:GLU:HG2	1:F:636:MET:HE1	1.66	0.75
1:A:582:ARG:H	1:A:582:ARG:HD2	1.51	0.75
1:B:272:LYS:HB2	1:B:306:ILE:CG2	2.16	0.75
1:B:444:CYS:C	1:B:446:ARG:H	1.94	0.75
1:B:500:GLN:HB3	1:B:505:ILE:CG1	2.16	0.75
1:F:443:ASP:O	1:F:446:ARG:CB	2.34	0.75
1:F:582:ARG:H	1:F:582:ARG:HD2	1.50	0.75
1:B:394:LYS:CE	1:B:401:ILE:HA	2.17	0.75
1:E:119:GLU:HB3	1:E:121:PRO:HD2	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:582:ARG:H	1:E:582:ARG:HD2	1.52	0.75
1:H:322:VAL:HG12	1:H:323:HIS:H	1.52	0.75
1:A:434:TRP:CZ3	1:A:568:ARG:CA	2.68	0.75
1:B:134:ARG:HB2	1:B:300:PHE:HE1	1.52	0.75
1:B:434:TRP:HE3	1:B:568:ARG:HA	1.45	0.75
1:B:647:GLN:CD	1:B:647:GLN:N	2.44	0.75
1:C:533:LEU:HD23	1:C:629:VAL:HG13	1.67	0.75
1:D:171:LYS:HG3	1:D:171:LYS:O	1.87	0.75
1:D:193:LEU:HD22	1:D:231:TRP:CD1	2.20	0.75
1:E:272:LYS:HB2	1:E:306:ILE:HG21	1.68	0.75
1:G:26:PHE:CZ	1:G:179:CYS:HB3	2.21	0.75
1:G:193:LEU:HB2	1:G:196:GLN:HE22	1.51	0.75
1:H:254:LYS:C	1:H:255:PHE:CG	2.64	0.75
1:H:443:ASP:O	1:H:446:ARG:HB2	1.86	0.75
1:C:272:LYS:HB2	1:C:306:ILE:HG21	1.68	0.75
1:E:570:LEU:HB3	1:E:590:MET:CE	2.15	0.75
1:A:430:TRP:HB3	1:A:571:TYR:HD2	1.50	0.75
1:B:107:TYR:CD1	1:B:153:LEU:HD12	2.22	0.75
1:B:536:LYS:O	1:B:625:LEU:HD13	1.87	0.75
1:C:424:THR:OG1	1:C:425:HIS:ND1	2.17	0.75
1:D:409:SER:CB	1:D:412:ILE:HD12	2.16	0.75
1:D:582:ARG:H	1:D:582:ARG:HD2	1.50	0.75
1:F:107:TYR:O	1:F:110:GLN:N	2.20	0.75
1:F:434:TRP:CD1	1:F:435:GLN:N	2.54	0.75
1:B:357:SER:HA	1:B:453:THR:HB	1.68	0.75
1:E:496:LYS:HB2	1:F:655:TRP:HE1	0.66	0.75
1:G:327:VAL:HG11	1:G:367:LEU:CB	2.16	0.75
1:G:582:ARG:H	1:G:582:ARG:HD2	1.49	0.75
1:A:272:LYS:HB2	1:A:306:ILE:CG2	2.17	0.75
1:B:394:LYS:HE2	1:B:401:ILE:CA	2.17	0.75
1:C:107:TYR:CD1	1:C:153:LEU:HD12	2.22	0.75
1:D:107:TYR:CD1	1:D:153:LEU:HD12	2.22	0.75
1:E:502:GLU:HG3	1:F:666:ARG:HH12	1.51	0.75
1:F:185:THR:HG23	1:F:187:GLN:CG	2.08	0.75
1:F:466:SER:HB3	1:F:537:MET:HE1	1.69	0.75
1:G:387:ILE:CD1	1:G:450:GLY:HA2	2.16	0.75
1:G:434:TRP:CZ3	1:G:568:ARG:CA	2.70	0.75
1:G:473:THR:HG21	1:G:533:LEU:CD2	2.14	0.75
1:H:327:VAL:HG11	1:H:367:LEU:CB	2.17	0.75
1:B:193:LEU:HB2	1:B:196:GLN:HE22	1.52	0.74
1:B:494:LEU:CD1	1:B:514:TRP:HB3	2.17	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:533:LEU:CD2	1:C:629:VAL:HG11	2.13	0.74
1:E:502:GLU:HG3	1:F:666:ARG:HH11	1.51	0.74
1:E:660:ILE:HG22	1:E:661:ALA:H	1.51	0.74
1:E:665:VAL:CG2	1:F:665:VAL:HG22	2.17	0.74
1:F:118:LYS:HG2	1:F:265:LEU:HA	1.69	0.74
1:H:107:TYR:CD1	1:H:153:LEU:HD12	2.22	0.74
1:A:107:TYR:O	1:A:110:GLN:N	2.20	0.74
1:A:327:VAL:HG11	1:A:367:LEU:CB	2.16	0.74
1:B:118:LYS:CG	1:B:264:HIS:O	2.34	0.74
1:B:582:ARG:H	1:B:582:ARG:HD2	1.51	0.74
1:C:654:LEU:CD1	1:D:655:TRP:CE3	2.69	0.74
1:D:660:ILE:CG2	1:D:661:ALA:H	2.00	0.74
1:E:235:VAL:HB	1:E:243:ILE:HA	1.68	0.74
1:E:503:PHE:O	1:E:505:ILE:HG13	1.86	0.74
1:F:517:MET:O	1:F:517:MET:HG2	1.87	0.74
1:F:521:VAL:HG22	1:F:643:VAL:HG13	1.67	0.74
1:F:660:ILE:CG2	1:F:661:ALA:N	2.51	0.74
1:H:412:ILE:HG23	1:H:433:ILE:HD12	1.69	0.74
1:A:422:THR:HB	1:A:585:GLY:HA3	1.69	0.74
1:F:107:TYR:CD1	1:F:153:LEU:HD12	2.22	0.74
1:F:394:LYS:HG3	1:F:613:SER:HB2	1.69	0.74
1:A:517:MET:HE3	1:A:647:GLN:OE1	1.87	0.74
1:B:33:ILE:HD11	1:B:40:GLN:CD	2.12	0.74
1:C:217:THR:OG1	1:C:218:GLY:N	2.15	0.74
1:E:248:ASP:OD1	1:E:248:ASP:C	2.30	0.74
1:E:424:THR:OG1	1:E:425:HIS:ND1	2.19	0.74
1:E:660:ILE:CG2	1:E:661:ALA:N	2.50	0.74
1:F:254:LYS:C	1:F:255:PHE:CG	2.65	0.74
1:F:193:LEU:HB2	1:F:196:GLN:HE22	1.53	0.74
1:H:272:LYS:HB2	1:H:306:ILE:CG2	2.17	0.74
1:H:357:SER:HA	1:H:453:THR:HB	1.67	0.74
1:E:28:TYR:O	1:E:44:LYS:HA	1.87	0.74
1:E:33:ILE:HD11	1:E:40:GLN:CD	2.13	0.74
1:F:230:GLN:C	1:F:232:HIS:N	2.44	0.74
1:G:434:TRP:CD1	1:G:434:TRP:C	2.65	0.74
1:A:119:GLU:CB	1:A:121:PRO:HD2	2.16	0.74
1:C:316:ASN:O	1:C:388:PHE:O	2.06	0.74
1:D:26:PHE:HE2	1:D:181:GLU:OE1	1.69	0.74
1:D:107:TYR:O	1:D:110:GLN:N	2.20	0.74
1:D:186:LEU:O	1:D:188:TYR:N	2.20	0.74
1:D:193:LEU:HB2	1:D:196:GLN:HE22	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:230:GLN:C	1:D:232:HIS:N	2.43	0.74
1:G:316:ASN:O	1:G:388:PHE:O	2.06	0.74
1:H:387:ILE:CD1	1:H:449:GLN:HG3	2.06	0.74
1:B:286:ARG:HA	1:B:290:THR:HG22	1.70	0.74
1:B:540:LEU:HD11	1:B:621:LYS:HB3	1.69	0.74
1:C:647:GLN:CD	1:C:647:GLN:N	2.43	0.74
1:E:107:TYR:O	1:E:110:GLN:N	2.21	0.74
1:E:658:LEU:HA	1:F:658:LEU:HD12	1.69	0.74
1:G:254:LYS:C	1:G:255:PHE:CG	2.66	0.74
1:A:517:MET:HG2	1:A:517:MET:O	1.88	0.74
1:C:570:LEU:HD23	1:C:590:MET:HE2	1.69	0.74
1:H:120:GLY:O	1:H:124:THR:N	2.19	0.74
1:H:430:TRP:HB3	1:H:571:TYR:HD2	1.53	0.74
1:B:107:TYR:O	1:B:110:GLN:N	2.20	0.73
1:B:434:TRP:CD1	1:B:434:TRP:C	2.65	0.73
1:C:33:ILE:HD11	1:C:40:GLN:CD	2.13	0.73
1:C:658:LEU:CD1	1:D:658:LEU:HA	2.17	0.73
1:C:660:ILE:C	1:C:662:CYS:H	1.96	0.73
1:D:254:LYS:C	1:D:255:PHE:CG	2.66	0.73
1:E:143:HIS:HD2	1:E:145:ASP:O	1.71	0.73
1:A:193:LEU:HB2	1:A:196:GLN:HE22	1.52	0.73
1:A:660:ILE:HG22	1:A:661:ALA:H	1.53	0.73
1:C:646:ARG:O	1:C:650:ARG:HG2	1.89	0.73
1:D:570:LEU:HB3	1:D:590:MET:HE2	1.69	0.73
1:E:319:SER:OG	1:E:403:LEU:CB	2.35	0.73
1:F:143:HIS:HD2	1:F:145:ASP:O	1.70	0.73
1:F:217:THR:OG1	1:F:218:GLY:N	2.09	0.73
1:F:387:ILE:HD11	1:F:449:GLN:HG3	1.69	0.73
1:G:389:LEU:HD11	1:G:454:SER:OG	1.87	0.73
1:B:119:GLU:HB3	1:B:121:PRO:HD2	1.69	0.73
1:B:517:MET:O	1:B:517:MET:HG2	1.87	0.73
1:C:248:ASP:C	1:C:248:ASP:OD1	2.30	0.73
1:D:28:TYR:O	1:D:44:LYS:HA	1.89	0.73
1:F:430:TRP:CE3	1:F:574:LEU:HD22	2.23	0.73
1:F:570:LEU:HD23	1:F:590:MET:CG	2.16	0.73
1:G:185:THR:HG23	1:G:187:GLN:CG	2.08	0.73
1:G:249:LEU:CD2	1:G:252:ALA:HA	2.18	0.73
1:H:33:ILE:HD11	1:H:40:GLN:CD	2.13	0.73
1:A:33:ILE:HD11	1:A:40:GLN:CD	2.13	0.73
1:A:171:LYS:HG3	1:A:171:LYS:O	1.87	0.73
1:C:28:TYR:O	1:C:44:LYS:HA	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:438:ARG:HG2	1:D:564:GLU:CG	2.18	0.73
1:D:647:GLN:CD	1:D:647:GLN:N	2.46	0.73
1:E:171:LYS:HG3	1:E:171:LYS:O	1.88	0.73
1:E:654:LEU:CD1	1:F:655:TRP:CZ3	2.70	0.73
1:G:33:ILE:HD11	1:G:40:GLN:CD	2.13	0.73
1:H:119:GLU:HB3	1:H:121:PRO:HD2	1.71	0.73
1:A:134:ARG:HB2	1:A:300:PHE:HE1	1.53	0.73
1:A:424:THR:OG1	1:A:425:HIS:ND1	2.19	0.73
1:A:660:ILE:C	1:A:662:CYS:H	1.96	0.73
1:B:134:ARG:CA	1:B:300:PHE:HZ	2.01	0.73
1:B:186:LEU:O	1:B:188:TYR:N	2.22	0.73
1:B:249:LEU:CD2	1:B:252:ALA:HA	2.18	0.73
1:C:219:PHE:O	1:C:220:ARG:HG3	1.85	0.73
1:E:434:TRP:CD1	1:E:434:TRP:C	2.63	0.73
1:F:186:LEU:O	1:F:188:TYR:N	2.22	0.73
1:F:353:LEU:HB3	1:F:361:LEU:HD12	1.70	0.73
1:H:107:TYR:O	1:H:110:GLN:N	2.21	0.73
1:H:171:LYS:HG3	1:H:171:LYS:O	1.88	0.73
1:D:570:LEU:HD23	1:D:590:MET:HE2	1.70	0.73
1:F:660:ILE:HG22	1:F:661:ALA:H	1.53	0.73
1:G:171:LYS:HG3	1:G:171:LYS:O	1.88	0.73
1:H:319:SER:C	1:H:321:ARG:H	1.96	0.73
1:A:143:HIS:HD2	1:A:145:ASP:O	1.71	0.73
1:B:26:PHE:HE2	1:B:181:GLU:OE1	1.70	0.73
1:C:660:ILE:CG2	1:C:661:ALA:H	2.02	0.73
1:D:26:PHE:HE2	1:D:181:GLU:CD	1.97	0.73
1:E:193:LEU:HB2	1:E:196:GLN:HE22	1.53	0.73
1:H:466:SER:O	1:H:541:GLN:NE2	2.21	0.73
1:A:28:TYR:O	1:A:44:LYS:HA	1.88	0.73
1:C:143:HIS:HD2	1:C:145:ASP:O	1.72	0.73
1:C:533:LEU:CD2	1:C:629:VAL:HG13	2.17	0.73
1:C:660:ILE:HG22	1:C:661:ALA:H	1.52	0.73
1:E:480:LYS:HE3	1:E:527:GLU:HB2	1.71	0.73
1:H:424:THR:OG1	1:H:425:HIS:ND1	2.18	0.73
1:C:517:MET:O	1:C:517:MET:HG2	1.87	0.73
1:D:118:LYS:CG	1:D:264:HIS:O	2.37	0.73
1:E:316:ASN:O	1:E:388:PHE:O	2.06	0.73
1:E:651:GLN:NE2	1:F:492:ILE:CG2	2.52	0.73
1:E:660:ILE:CG2	1:E:661:ALA:H	2.01	0.73
1:F:171:LYS:O	1:F:171:LYS:HG3	1.88	0.73
1:F:536:LYS:HB3	1:F:625:LEU:CD1	2.18	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:472:MET:HG2	1:G:633:MET:HB2	1.70	0.73
1:H:186:LEU:O	1:H:188:TYR:N	2.22	0.73
1:H:254:LYS:O	1:H:255:PHE:CD2	2.42	0.73
1:C:485:PHE:CZ	1:D:485:PHE:HB2	2.23	0.73
1:C:666:ARG:HG3	1:D:503:PHE:CE1	2.24	0.73
1:C:660:ILE:CG2	1:C:661:ALA:N	2.50	0.72
1:C:665:VAL:HG13	1:D:665:VAL:HG13	1.69	0.72
1:E:422:THR:HB	1:E:585:GLY:HA2	1.68	0.72
1:E:479:LEU:HD11	1:E:641:LYS:HG3	1.70	0.72
1:F:517:MET:CE	1:F:647:GLN:OE1	2.37	0.72
1:H:472:MET:SD	1:H:633:MET:HB2	2.30	0.72
1:A:660:ILE:CG2	1:A:661:ALA:N	2.51	0.72
1:D:143:HIS:HD2	1:D:145:ASP:O	1.71	0.72
1:E:111:PHE:CZ	1:E:572:ARG:HG3	2.23	0.72
1:F:28:TYR:O	1:F:44:LYS:HA	1.88	0.72
1:F:387:ILE:CD1	1:F:450:GLY:CA	2.67	0.72
1:G:107:TYR:CD1	1:G:153:LEU:HD12	2.23	0.72
1:G:186:LEU:O	1:G:188:TYR:N	2.22	0.72
1:A:319:SER:C	1:A:321:ARG:H	1.96	0.72
1:D:434:TRP:CD1	1:D:434:TRP:C	2.65	0.72
1:E:134:ARG:CA	1:E:300:PHE:CZ	2.72	0.72
1:E:430:TRP:HB3	1:E:571:TYR:HD2	1.52	0.72
1:H:286:ARG:HA	1:H:290:THR:HG22	1.72	0.72
1:A:353:LEU:HB3	1:A:361:LEU:HD12	1.71	0.72
1:B:327:VAL:HG11	1:B:367:LEU:CB	2.18	0.72
1:B:660:ILE:CG2	1:B:661:ALA:N	2.52	0.72
1:D:33:ILE:HD11	1:D:40:GLN:CD	2.14	0.72
1:D:286:ARG:HA	1:D:290:THR:HG22	1.71	0.72
1:D:319:SER:C	1:D:321:ARG:H	1.97	0.72
1:E:186:LEU:O	1:E:188:TYR:N	2.21	0.72
1:F:434:TRP:CD1	1:F:434:TRP:C	2.67	0.72
1:G:107:TYR:O	1:G:110:GLN:N	2.22	0.72
1:A:434:TRP:CD1	1:A:434:TRP:C	2.67	0.72
1:B:402:SER:HA	1:B:609:TYR:CD1	2.25	0.72
1:B:419:ARG:O	1:B:419:ARG:HG2	1.90	0.72
1:B:424:THR:OG1	1:B:425:HIS:ND1	2.18	0.72
1:B:438:ARG:HG2	1:B:564:GLU:CD	2.13	0.72
1:B:660:ILE:HG22	1:B:661:ALA:H	1.55	0.72
1:C:286:ARG:HA	1:C:290:THR:CG2	2.20	0.72
1:E:647:GLN:CD	1:E:647:GLN:N	2.46	0.72
1:F:120:GLY:O	1:F:124:THR:N	2.20	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:286:ARG:HG2	1:A:286:ARG:NH1	2.05	0.72
1:F:319:SER:C	1:F:321:ARG:H	1.98	0.72
1:F:412:ILE:HG23	1:F:433:ILE:HD12	1.72	0.72
1:G:119:GLU:HB3	1:G:121:PRO:HD2	1.72	0.72
1:G:143:HIS:HD2	1:G:145:ASP:O	1.73	0.72
1:A:254:LYS:C	1:A:255:PHE:CG	2.65	0.72
1:B:28:TYR:O	1:B:44:LYS:HA	1.89	0.72
1:B:438:ARG:NH1	1:B:568:ARG:HH21	1.87	0.72
1:C:419:ARG:HG2	1:C:419:ARG:O	1.89	0.72
1:F:33:ILE:HD11	1:F:40:GLN:CD	2.13	0.72
1:F:424:THR:OG1	1:F:425:HIS:ND1	2.19	0.72
1:H:143:HIS:HD2	1:H:145:ASP:O	1.73	0.72
1:H:419:ARG:HG2	1:H:419:ARG:O	1.88	0.72
1:A:248:ASP:C	1:A:248:ASP:OD1	2.33	0.72
1:A:263:ASN:HD21	1:A:265:LEU:CB	1.99	0.72
1:B:248:ASP:C	1:B:248:ASP:OD1	2.32	0.72
1:B:319:SER:C	1:B:321:ARG:H	1.98	0.72
1:B:550:ASN:HD21	1:B:611:GLN:CG	2.01	0.72
1:C:480:LYS:NZ	1:C:527:GLU:HB2	2.04	0.72
1:D:412:ILE:HG23	1:D:433:ILE:HD12	1.71	0.72
1:F:248:ASP:C	1:F:248:ASP:OD1	2.33	0.72
1:F:322:VAL:HG12	1:F:323:HIS:N	2.05	0.72
1:F:359:LEU:HA	1:F:460:ARG:NH1	2.04	0.72
1:C:419:ARG:HA	1:C:587:SER:CB	2.19	0.72
1:C:434:TRP:CD1	1:C:434:TRP:C	2.66	0.72
1:G:28:TYR:O	1:G:44:LYS:HA	1.88	0.72
1:A:286:ARG:HA	1:A:290:THR:HG22	1.72	0.72
1:A:337:LYS:HD3	1:A:348:GLU:HB3	1.72	0.72
1:F:434:TRP:HZ3	1:F:568:ARG:HG3	1.53	0.72
1:A:646:ARG:O	1:A:650:ARG:HG2	1.90	0.71
1:C:654:LEU:HD23	1:D:654:LEU:HD21	1.66	0.71
1:A:433:ILE:CG2	1:A:571:TYR:OH	2.38	0.71
1:B:134:ARG:HB2	1:B:300:PHE:CE1	2.25	0.71
1:B:660:ILE:C	1:B:662:CYS:H	1.95	0.71
1:C:284:HIS:NE2	1:E:342:GLN:NE2	2.38	0.71
1:D:517:MET:HG2	1:D:517:MET:O	1.90	0.71
1:E:286:ARG:HA	1:E:290:THR:HG22	1.70	0.71
1:E:419:ARG:O	1:E:419:ARG:HG2	1.89	0.71
1:E:646:ARG:O	1:E:650:ARG:HG2	1.90	0.71
1:G:319:SER:C	1:G:321:ARG:H	1.97	0.71
1:H:28:TYR:O	1:H:44:LYS:HA	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:171:LYS:O	1:C:171:LYS:HG3	1.89	0.71
1:C:387:ILE:HD11	1:C:449:GLN:HG3	1.70	0.71
1:C:486:PHE:CE1	1:C:647:GLN:HB3	2.25	0.71
1:C:643:VAL:O	1:C:644:VAL:HG23	1.90	0.71
1:D:337:LYS:HD3	1:D:348:GLU:HB3	1.72	0.71
1:E:254:LYS:O	1:E:255:PHE:CD2	2.43	0.71
1:A:510:LEU:HD12	1:A:657:LEU:HD12	1.72	0.71
1:A:665:VAL:HG13	1:B:665:VAL:CG1	2.16	0.71
1:B:475:GLU:O	1:B:478:GLN:N	2.22	0.71
1:C:337:LYS:HD3	1:C:348:GLU:HB3	1.72	0.71
1:D:322:VAL:HG12	1:D:323:HIS:N	2.04	0.71
1:E:409:SER:HB2	1:E:412:ILE:HD12	1.72	0.71
1:H:249:LEU:CD2	1:H:252:ALA:HA	2.17	0.71
1:B:171:LYS:HG3	1:B:171:LYS:O	1.89	0.71
1:B:272:LYS:HB2	1:B:306:ILE:HG21	1.72	0.71
1:C:319:SER:C	1:C:321:ARG:H	1.97	0.71
1:F:272:LYS:HB2	1:F:306:ILE:HG21	1.70	0.71
1:G:248:ASP:C	1:G:248:ASP:OD1	2.33	0.71
1:G:322:VAL:HG12	1:G:323:HIS:N	2.06	0.71
1:H:185:THR:HG23	1:H:187:GLN:CG	2.11	0.71
1:D:191:PRO:HG3	1:D:234:LYS:NZ	2.06	0.71
1:D:327:VAL:HG11	1:D:367:LEU:CB	2.19	0.71
1:D:646:ARG:O	1:D:650:ARG:HG2	1.89	0.71
1:E:26:PHE:HE2	1:E:181:GLU:CD	1.97	0.71
1:F:118:LYS:CG	1:F:265:LEU:HA	2.20	0.71
1:G:337:LYS:HD3	1:G:348:GLU:HB3	1.71	0.71
1:G:341:GLN:OE1	1:G:347:PRO:HB3	1.89	0.71
1:B:494:LEU:CD1	1:B:514:TRP:HE3	2.00	0.71
1:B:646:ARG:O	1:B:650:ARG:HG2	1.90	0.71
1:C:412:ILE:HG23	1:C:433:ILE:HD12	1.73	0.71
1:C:503:PHE:H	1:C:505:ILE:HD11	1.56	0.71
1:D:272:LYS:HB2	1:D:306:ILE:HG21	1.72	0.71
1:E:185:THR:HG23	1:E:187:GLN:CG	2.07	0.71
1:E:417:PRO:O	1:E:418:LYS:HG3	1.91	0.71
1:G:286:ARG:HA	1:G:290:THR:HG22	1.72	0.71
1:H:337:LYS:HD3	1:H:348:GLU:HB3	1.71	0.71
1:A:322:VAL:HG12	1:A:323:HIS:N	2.06	0.71
1:B:115:CYS:HB2	1:B:435:GLN:HG3	1.72	0.71
1:B:402:SER:HA	1:B:609:TYR:CG	2.26	0.71
1:D:353:LEU:HB3	1:D:361:LEU:HD12	1.71	0.71
1:D:547:LEU:HD13	1:D:615:THR:CG2	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:660:ILE:C	1:D:662:CYS:H	1.99	0.71
1:E:517:MET:O	1:E:517:MET:HG2	1.89	0.71
1:E:665:VAL:HG22	1:F:665:VAL:CG2	2.21	0.71
1:F:533:LEU:CD2	1:F:629:VAL:CG1	2.68	0.71
1:G:438:ARG:NH1	1:G:568:ARG:HH21	1.89	0.71
1:G:570:LEU:CB	1:G:590:MET:HE2	2.20	0.71
1:H:316:ASN:O	1:H:388:PHE:O	2.08	0.71
1:A:185:THR:HG23	1:A:187:GLN:CG	2.12	0.71
1:B:143:HIS:HD2	1:B:145:ASP:O	1.73	0.71
1:B:643:VAL:O	1:B:644:VAL:HG23	1.91	0.71
1:C:492:ILE:HG21	1:D:651:GLN:NE2	2.06	0.71
1:D:424:THR:OG1	1:D:425:HIS:ND1	2.17	0.71
1:E:319:SER:C	1:E:321:ARG:H	1.98	0.71
1:G:272:LYS:HB2	1:G:306:ILE:HG21	1.72	0.71
1:G:353:LEU:HB3	1:G:361:LEU:HD12	1.71	0.71
1:H:134:ARG:CA	1:H:300:PHE:CZ	2.68	0.71
1:B:193:LEU:HD22	1:B:231:TRP:CD1	2.25	0.71
1:B:433:ILE:HB	1:B:571:TYR:CZ	2.26	0.71
1:E:660:ILE:C	1:E:662:CYS:H	1.99	0.71
1:F:286:ARG:HA	1:F:290:THR:HG22	1.73	0.71
1:A:249:LEU:CD2	1:A:252:ALA:HA	2.19	0.70
1:A:655:TRP:CZ3	1:B:654:LEU:HD12	2.26	0.70
1:B:412:ILE:HG23	1:B:433:ILE:HD12	1.73	0.70
1:B:475:GLU:O	1:B:476:CYS:C	2.32	0.70
1:B:479:LEU:HD12	1:B:640:GLU:HB3	1.72	0.70
1:C:179:CYS:CB	1:C:181:GLU:CG	2.66	0.70
1:C:570:LEU:CB	1:C:590:MET:HE2	2.19	0.70
1:H:438:ARG:HG2	1:H:564:GLU:CD	2.16	0.70
1:B:253:VAL:HB	1:B:255:PHE:HZ	1.55	0.70
1:B:475:GLU:C	1:B:477:GLU:N	2.48	0.70
1:C:570:LEU:CD2	1:C:590:MET:HE2	2.21	0.70
1:D:419:ARG:HA	1:D:587:SER:OG	1.91	0.70
1:E:253:VAL:HB	1:E:255:PHE:HZ	1.53	0.70
1:F:337:LYS:HD3	1:F:348:GLU:HB3	1.73	0.70
1:F:646:ARG:O	1:F:650:ARG:HG2	1.91	0.70
1:G:409:SER:HB2	1:G:412:ILE:HD12	1.72	0.70
1:A:419:ARG:O	1:A:419:ARG:HG2	1.91	0.70
1:A:647:GLN:CD	1:A:647:GLN:N	2.47	0.70
1:D:357:SER:HA	1:D:453:THR:HB	1.73	0.70
1:E:422:THR:HB	1:E:585:GLY:HA3	1.72	0.70
1:H:26:PHE:HZ	1:H:179:CYS:HB3	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:253:VAL:HB	1:H:255:PHE:HZ	1.55	0.70
1:A:409:SER:HB2	1:A:412:ILE:HD12	1.74	0.70
1:B:322:VAL:HG12	1:B:323:HIS:N	2.05	0.70
1:C:497:TYR:HE2	1:C:511:LEU:HD22	1.56	0.70
1:E:503:PHE:H	1:E:505:ILE:HD11	1.55	0.70
1:E:480:LYS:CE	1:E:527:GLU:HB2	2.21	0.70
1:F:500:GLN:CB	1:F:505:ILE:HG12	2.21	0.70
1:F:647:GLN:N	1:F:647:GLN:CD	2.47	0.70
1:G:130:SER:O	1:G:300:PHE:CE1	2.44	0.70
1:H:263:ASN:HD21	1:H:265:LEU:CB	1.99	0.70
1:H:341:GLN:OE1	1:H:347:PRO:HB3	1.91	0.70
1:A:26:PHE:CZ	1:A:179:CYS:HB3	2.27	0.70
1:D:286:ARG:HA	1:D:290:THR:CG2	2.22	0.70
1:E:230:GLN:C	1:E:232:HIS:N	2.44	0.70
1:F:263:ASN:HD21	1:F:265:LEU:CB	1.99	0.70
1:F:660:ILE:C	1:F:662:CYS:H	1.99	0.70
1:H:26:PHE:CE2	1:H:181:GLU:OE1	2.37	0.70
1:A:660:ILE:CG2	1:A:661:ALA:H	2.05	0.70
1:B:114:CYS:O	1:B:115:CYS:HB2	1.91	0.70
1:B:286:ARG:NH1	1:B:286:ARG:HG2	2.04	0.70
1:C:322:VAL:HG12	1:C:323:HIS:N	2.05	0.70
1:C:353:LEU:HB3	1:C:361:LEU:HD12	1.72	0.70
1:C:475:GLU:HG2	1:C:636:MET:HE1	1.71	0.70
1:C:649:LYS:HA	1:C:652:GLN:HB2	1.73	0.70
1:D:187:GLN:CB	1:D:223:LEU:CD2	2.60	0.70
1:D:316:ASN:O	1:D:388:PHE:O	2.09	0.70
1:F:419:ARG:HG2	1:F:419:ARG:O	1.91	0.70
1:G:18:LYS:HZ2	1:G:33:ILE:HD12	1.55	0.70
1:H:18:LYS:HZ2	1:H:33:ILE:HD12	1.57	0.70
1:H:412:ILE:HG23	1:H:433:ILE:CD1	2.21	0.70
1:A:441:LYS:HB2	1:A:560:LEU:CD2	2.21	0.70
1:A:513:ALA:HB1	1:A:650:ARG:HH12	1.56	0.70
1:D:434:TRP:HE3	1:D:568:ARG:HA	1.52	0.70
1:E:337:LYS:HD3	1:E:348:GLU:HB3	1.72	0.70
1:G:434:TRP:CZ3	1:G:568:ARG:HG3	2.25	0.70
1:B:286:ARG:HA	1:B:290:THR:CG2	2.22	0.70
1:B:570:LEU:HB3	1:B:590:MET:HE2	1.74	0.70
1:E:114:CYS:O	1:E:115:CYS:HB2	1.92	0.70
1:E:260:PRO:HG3	1:E:274:GLU:HG2	1.74	0.70
1:E:322:VAL:HG12	1:E:323:HIS:N	2.06	0.70
1:F:570:LEU:CD2	1:F:590:MET:HE2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:655:TRP:CZ3	1:B:654:LEU:CD1	2.75	0.70
1:C:263:ASN:HD21	1:C:265:LEU:CB	1.98	0.70
1:C:654:LEU:HD21	1:D:654:LEU:HD23	1.71	0.70
1:D:419:ARG:O	1:D:419:ARG:HG2	1.91	0.70
1:E:263:ASN:HD21	1:E:265:LEU:CB	2.02	0.70
1:G:571:TYR:CZ	1:G:590:MET:SD	2.85	0.70
1:D:472:MET:SD	1:D:633:MET:HB2	2.31	0.69
1:E:286:ARG:HA	1:E:290:THR:CG2	2.21	0.69
1:G:412:ILE:HG23	1:G:433:ILE:HD12	1.74	0.69
1:A:118:LYS:HG2	1:A:265:LEU:HA	1.73	0.69
1:B:337:LYS:HD3	1:B:348:GLU:HB3	1.74	0.69
1:D:479:LEU:HD12	1:D:640:GLU:HB3	1.74	0.69
1:H:272:LYS:HB2	1:H:306:ILE:HG21	1.72	0.69
1:A:412:ILE:HG23	1:A:433:ILE:HD12	1.74	0.69
1:B:263:ASN:HD21	1:B:265:LEU:CB	2.01	0.69
1:B:517:MET:HE1	1:B:650:ARG:HG3	1.73	0.69
1:E:493:ASP:HB3	1:E:514:TRP:CH2	2.28	0.69
1:F:120:GLY:H	1:F:122:ILE:H	1.41	0.69
1:G:419:ARG:O	1:G:419:ARG:HG2	1.90	0.69
1:A:119:GLU:HB3	1:A:121:PRO:HD2	1.73	0.69
1:A:341:GLN:OE1	1:A:347:PRO:HB3	1.91	0.69
1:C:26:PHE:HE2	1:C:181:GLU:CD	1.98	0.69
1:C:249:LEU:CD2	1:C:252:ALA:HA	2.18	0.69
1:D:248:ASP:C	1:D:248:ASP:OD1	2.34	0.69
1:D:422:THR:HG22	1:D:426:LEU:HD21	1.74	0.69
1:H:115:CYS:HB2	1:H:435:GLN:HG3	1.74	0.69
1:A:438:ARG:HG2	1:A:564:GLU:CD	2.17	0.69
1:B:16:GLU:HA	1:B:83:LEU:HD22	1.75	0.69
1:B:341:GLN:OE1	1:B:347:PRO:HB3	1.92	0.69
1:B:353:LEU:HB3	1:B:361:LEU:HD12	1.73	0.69
1:D:341:GLN:OE1	1:D:347:PRO:HB3	1.92	0.69
1:D:438:ARG:HG2	1:D:564:GLU:CD	2.17	0.69
1:E:26:PHE:CE2	1:E:181:GLU:OE1	2.43	0.69
1:H:353:LEU:HB3	1:H:361:LEU:HD12	1.73	0.69
1:A:18:LYS:HZ2	1:A:33:ILE:HG21	1.57	0.69
1:C:118:LYS:NZ	1:C:123:ARG:HH22	1.90	0.69
1:C:402:SER:HA	1:C:609:TYR:CG	2.27	0.69
1:D:350:GLU:HG2	1:D:391:ASP:HB2	1.75	0.69
1:E:62:ILE:HD12	1:E:94:LEU:HB2	1.74	0.69
1:E:497:TYR:HE2	1:E:511:LEU:HD22	1.53	0.69
1:H:286:ARG:HA	1:H:290:THR:CG2	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:62:ILE:HD12	1:A:94:LEU:HB2	1.74	0.69
1:B:417:PRO:O	1:B:418:LYS:HG3	1.92	0.69
1:C:18:LYS:HZ2	1:C:33:ILE:HG21	1.56	0.69
1:C:433:ILE:CG2	1:C:571:TYR:OH	2.40	0.69
1:D:217:THR:OG1	1:D:218:GLY:N	2.12	0.69
1:F:409:SER:HB2	1:F:412:ILE:HD12	1.73	0.69
1:F:660:ILE:CG2	1:F:661:ALA:H	2.03	0.69
1:A:570:LEU:CD2	1:A:590:MET:HE2	2.23	0.69
1:B:521:VAL:CG1	1:B:643:VAL:HG12	2.22	0.69
1:D:120:GLY:H	1:D:122:ILE:H	1.41	0.69
1:D:444:CYS:C	1:D:446:ARG:H	2.01	0.69
1:E:327:VAL:HG11	1:E:367:LEU:CB	2.21	0.69
1:F:179:CYS:CB	1:F:181:GLU:CG	2.67	0.69
1:F:341:GLN:OE1	1:F:347:PRO:HB3	1.93	0.69
1:F:444:CYS:C	1:F:446:ARG:N	2.50	0.69
1:F:496:LYS:O	1:F:499:GLU:HB2	1.93	0.69
1:H:62:ILE:HD12	1:H:94:LEU:HB2	1.74	0.69
1:H:419:ARG:N	1:H:420:PRO:HD3	2.03	0.69
1:A:134:ARG:HB2	1:A:300:PHE:CE1	2.27	0.69
1:B:120:GLY:H	1:B:122:ILE:H	1.40	0.69
1:B:438:ARG:HG2	1:B:564:GLU:CG	2.23	0.69
1:C:40:GLN:HB3	1:C:98:TYR:HD2	1.58	0.69
1:C:62:ILE:HD12	1:C:94:LEU:HB2	1.75	0.69
1:C:327:VAL:HG11	1:C:367:LEU:CB	2.21	0.69
1:D:16:GLU:HA	1:D:83:LEU:HD22	1.75	0.69
1:F:412:ILE:HG23	1:F:433:ILE:CD1	2.23	0.69
1:H:40:GLN:HB3	1:H:98:TYR:HD2	1.58	0.69
1:H:260:PRO:HB2	1:H:273:LEU:HD13	1.75	0.69
1:B:219:PHE:O	1:B:220:ARG:HG3	1.85	0.69
1:B:660:ILE:CG2	1:B:661:ALA:H	2.05	0.69
1:C:485:PHE:CD2	1:D:485:PHE:CD2	2.80	0.69
1:E:40:GLN:HB3	1:E:98:TYR:HD2	1.58	0.69
1:E:478:GLN:HB2	1:F:478:GLN:HA	1.75	0.69
1:E:500:GLN:HB3	1:E:505:ILE:HG12	1.73	0.69
1:F:497:TYR:HE2	1:F:511:LEU:HD22	1.52	0.69
1:H:143:HIS:CE1	1:H:167:LEU:HB2	2.28	0.69
1:B:62:ILE:HD12	1:B:94:LEU:HB2	1.74	0.68
1:B:496:LYS:O	1:B:499:GLU:HB2	1.94	0.68
1:C:186:LEU:O	1:C:188:TYR:N	2.24	0.68
1:C:496:LYS:O	1:C:499:GLU:HB2	1.93	0.68
1:D:570:LEU:CB	1:D:590:MET:HE2	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:115:CYS:O	1:G:263:ASN:HA	1.93	0.68
1:A:272:LYS:HB2	1:A:306:ILE:HG21	1.73	0.68
1:C:206:TRP:CD1	1:C:206:TRP:C	2.71	0.68
1:C:230:GLN:C	1:C:232:HIS:N	2.44	0.68
1:D:319:SER:OG	1:D:403:LEU:CB	2.41	0.68
1:D:422:THR:HB	1:D:585:GLY:HA2	1.75	0.68
1:D:505:ILE:O	1:D:506:THR:O	2.10	0.68
1:E:120:GLY:H	1:E:122:ILE:H	1.39	0.68
1:C:473:THR:HG21	1:C:533:LEU:HD21	1.76	0.68
1:C:492:ILE:HD13	1:D:651:GLN:NE2	2.04	0.68
1:D:62:ILE:HD12	1:D:94:LEU:HB2	1.75	0.68
1:D:434:TRP:HZ3	1:D:568:ARG:CB	2.05	0.68
1:E:665:VAL:CG2	1:F:665:VAL:CG2	2.71	0.68
1:G:417:PRO:O	1:G:418:LYS:HG3	1.93	0.68
1:G:434:TRP:HZ3	1:G:568:ARG:CG	2.06	0.68
1:A:118:LYS:O	1:A:118:LYS:HG3	1.93	0.68
1:A:120:GLY:H	1:A:122:ILE:H	1.41	0.68
1:B:40:GLN:HB3	1:B:98:TYR:HD2	1.58	0.68
1:E:265:LEU:CD2	1:E:269:LEU:HB3	2.24	0.68
1:E:353:LEU:HB3	1:E:361:LEU:HD12	1.74	0.68
1:F:643:VAL:O	1:F:644:VAL:HG23	1.94	0.68
1:G:134:ARG:HB2	1:G:300:PHE:CE1	2.28	0.68
1:H:265:LEU:CD2	1:H:269:LEU:HB3	2.23	0.68
1:H:433:ILE:CG2	1:H:571:TYR:OH	2.42	0.68
1:A:286:ARG:HA	1:A:290:THR:CG2	2.24	0.68
1:A:517:MET:SD	1:A:650:ARG:CG	2.75	0.68
1:C:260:PRO:HB2	1:C:273:LEU:HD13	1.76	0.68
1:D:412:ILE:HG23	1:D:433:ILE:CD1	2.24	0.68
1:E:16:GLU:HA	1:E:83:LEU:HD22	1.75	0.68
1:G:40:GLN:HB3	1:G:98:TYR:HD2	1.58	0.68
1:G:263:ASN:HD21	1:G:265:LEU:CB	1.99	0.68
1:H:444:CYS:C	1:H:446:ARG:H	2.02	0.68
1:A:16:GLU:HA	1:A:83:LEU:HD22	1.75	0.68
1:C:114:CYS:O	1:C:115:CYS:HB2	1.93	0.68
1:C:549:ARG:O	1:C:550:ASN:HB2	1.93	0.68
1:E:191:PRO:HG3	1:E:234:LYS:NZ	2.08	0.68
1:E:486:PHE:HZ	1:E:517:MET:CE	2.05	0.68
1:F:16:GLU:HA	1:F:83:LEU:HD22	1.75	0.68
1:F:316:ASN:O	1:F:388:PHE:O	2.12	0.68
1:G:536:LYS:O	1:G:625:LEU:HD13	1.94	0.68
1:H:120:GLY:H	1:H:122:ILE:H	1.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:16:GLU:HA	1:C:83:LEU:HD22	1.76	0.68
1:C:286:ARG:NH1	1:C:286:ARG:HG2	2.08	0.68
1:D:409:SER:HB2	1:D:412:ILE:HD12	1.76	0.68
1:E:570:LEU:CB	1:E:590:MET:HE2	2.23	0.68
1:G:143:HIS:CE1	1:G:167:LEU:HB2	2.28	0.68
1:H:417:PRO:O	1:H:418:LYS:HG3	1.92	0.68
1:A:224:PRO:HG2	1:A:255:PHE:CE2	2.29	0.68
1:A:549:ARG:O	1:A:550:ASN:HB2	1.94	0.68
1:B:412:ILE:HG23	1:B:433:ILE:CD1	2.24	0.68
1:B:438:ARG:HG2	1:B:564:GLU:HG3	1.75	0.68
1:B:505:ILE:O	1:B:506:THR:O	2.11	0.68
1:D:419:ARG:N	1:D:420:PRO:HD3	2.04	0.68
1:D:494:LEU:HD12	1:D:514:TRP:CE3	2.22	0.68
1:F:62:ILE:HD12	1:F:94:LEU:HB2	1.74	0.68
1:F:417:PRO:O	1:F:418:LYS:HG3	1.93	0.68
1:H:394:LYS:HE2	1:H:401:ILE:HA	1.75	0.68
1:A:105:ARG:O	1:A:106:LYS:C	2.36	0.68
1:B:434:TRP:HZ3	1:B:568:ARG:HG3	1.59	0.68
1:C:409:SER:HB2	1:C:412:ILE:HD12	1.74	0.68
1:C:417:PRO:O	1:C:418:LYS:HG3	1.93	0.68
1:F:40:GLN:HB3	1:F:98:TYR:HD2	1.59	0.68
1:F:350:GLU:HG2	1:F:391:ASP:HB2	1.76	0.68
1:F:570:LEU:HB3	1:F:590:MET:HE3	1.75	0.68
1:D:286:ARG:HG2	1:D:286:ARG:NH1	2.08	0.68
1:D:479:LEU:HB3	1:D:640:GLU:OE2	1.94	0.68
1:D:643:VAL:O	1:D:644:VAL:HG23	1.94	0.68
1:F:434:TRP:HB3	1:F:571:TYR:HD1	1.51	0.68
1:G:16:GLU:HA	1:G:83:LEU:HD22	1.76	0.68
1:G:118:LYS:HG3	1:G:118:LYS:O	1.93	0.68
1:G:219:PHE:O	1:G:220:ARG:HG3	1.88	0.68
1:H:16:GLU:HA	1:H:83:LEU:HD22	1.74	0.68
1:H:115:CYS:CB	1:H:435:GLN:HG3	2.24	0.68
1:H:179:CYS:CB	1:H:181:GLU:CG	2.66	0.68
1:H:536:LYS:HB3	1:H:625:LEU:HD22	1.74	0.68
1:B:387:ILE:HD11	1:B:449:GLN:HG3	1.76	0.67
1:C:394:LYS:CG	1:C:613:SER:HB2	2.24	0.67
1:D:111:PHE:HZ	1:D:572:ARG:HG3	1.57	0.67
1:E:286:ARG:NH1	1:E:286:ARG:HG2	2.09	0.67
1:E:643:VAL:O	1:E:644:VAL:HG23	1.93	0.67
1:F:254:LYS:O	1:F:255:PHE:CD2	2.47	0.67
1:A:118:LYS:CG	1:A:265:LEU:HA	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:ARG:CA	1:A:300:PHE:HZ	2.06	0.67
1:A:318:VAL:O	1:A:320:GLY:N	2.27	0.67
1:B:254:LYS:O	1:B:255:PHE:CD2	2.46	0.67
1:D:219:PHE:O	1:D:220:ARG:HG3	1.82	0.67
1:G:118:LYS:HG2	1:G:264:HIS:O	1.95	0.67
1:G:230:GLN:C	1:G:232:HIS:N	2.44	0.67
1:H:571:TYR:CE2	1:H:590:MET:HG3	2.29	0.67
1:B:571:TYR:CE2	1:B:590:MET:HG3	2.29	0.67
1:C:654:LEU:HD22	1:D:654:LEU:CD2	2.25	0.67
1:D:496:LYS:O	1:D:499:GLU:HB2	1.93	0.67
1:G:318:VAL:O	1:G:320:GLY:N	2.28	0.67
1:H:286:ARG:NH1	1:H:286:ARG:HG2	2.09	0.67
1:H:475:GLU:CD	1:H:636:MET:HE1	2.20	0.67
1:A:643:VAL:O	1:A:644:VAL:HG23	1.94	0.67
1:B:18:LYS:HZ2	1:B:33:ILE:HG21	1.58	0.67
1:B:105:ARG:O	1:B:106:LYS:C	2.38	0.67
1:B:244:VAL:HG12	1:B:278:GLN:OE1	1.94	0.67
1:B:479:LEU:O	1:B:640:GLU:OE2	2.13	0.67
1:D:417:PRO:O	1:D:418:LYS:HG3	1.93	0.67
1:C:253:VAL:HB	1:C:255:PHE:HZ	1.58	0.67
1:C:283:TRP:O	1:C:284:HIS:HB2	1.94	0.67
1:F:505:ILE:O	1:F:506:THR:O	2.13	0.67
1:A:505:ILE:O	1:A:506:THR:O	2.12	0.67
1:B:409:SER:HB2	1:B:412:ILE:HD12	1.76	0.67
1:C:412:ILE:HG23	1:C:433:ILE:CD1	2.24	0.67
1:D:418:LYS:O	1:D:419:ARG:HB2	1.95	0.67
1:D:438:ARG:CG	1:D:564:GLU:HG3	2.25	0.67
1:E:350:GLU:HG2	1:E:391:ASP:HB2	1.76	0.67
1:F:503:PHE:H	1:F:505:ILE:HD11	1.59	0.67
1:G:62:ILE:HD12	1:G:94:LEU:HB2	1.76	0.67
1:G:71:PRO:O	1:G:72:ASN:HB2	1.94	0.67
1:G:179:CYS:CB	1:G:181:GLU:CG	2.67	0.67
1:G:419:ARG:N	1:G:420:PRO:HD3	2.03	0.67
1:A:105:ARG:O	1:A:108:LEU:N	2.28	0.67
1:D:105:ARG:O	1:D:106:LYS:C	2.38	0.67
1:F:143:HIS:CE1	1:F:167:LEU:HB2	2.29	0.67
1:G:260:PRO:HB2	1:G:273:LEU:HD13	1.77	0.67
1:H:322:VAL:HG12	1:H:323:HIS:N	2.10	0.67
1:H:455:MET:HE1	1:H:548:GLN:HA	1.76	0.67
1:H:549:ARG:O	1:H:550:ASN:HB2	1.95	0.67
1:E:412:ILE:HG23	1:E:433:ILE:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:422:THR:HG22	1:E:426:LEU:HD21	1.77	0.67
1:G:262:PRO:HB3	1:G:409:SER:OG	1.94	0.67
1:G:286:ARG:HA	1:G:290:THR:CG2	2.24	0.67
1:G:473:THR:HG22	1:G:633:MET:HG3	1.74	0.67
1:H:409:SER:HB2	1:H:412:ILE:HD12	1.74	0.67
1:H:419:ARG:HA	1:H:587:SER:OG	1.94	0.67
1:B:350:GLU:HG2	1:B:391:ASP:HB2	1.75	0.67
1:C:254:LYS:O	1:C:255:PHE:CD2	2.47	0.67
1:D:40:GLN:HB3	1:D:98:TYR:HD2	1.59	0.67
1:E:206:TRP:CD1	1:E:206:TRP:C	2.73	0.67
1:G:245:VAL:O	1:G:257:SER:O	2.13	0.67
1:G:265:LEU:CD2	1:G:269:LEU:HB3	2.25	0.67
1:B:260:PRO:HB2	1:B:273:LEU:HD13	1.78	0.67
1:B:501:MET:C	1:B:505:ILE:HD11	2.20	0.67
1:C:105:ARG:O	1:C:106:LYS:C	2.38	0.67
1:C:118:LYS:HG2	1:C:265:LEU:HA	1.77	0.67
1:D:143:HIS:CE1	1:D:167:LEU:HB2	2.30	0.67
1:D:263:ASN:HD21	1:D:265:LEU:CB	1.99	0.67
1:E:263:ASN:ND2	1:E:265:LEU:H	1.93	0.67
1:F:286:ARG:NH1	1:F:286:ARG:HG2	2.09	0.67
1:G:105:ARG:O	1:G:108:LEU:N	2.28	0.67
1:G:114:CYS:O	1:G:115:CYS:HB2	1.95	0.67
1:G:549:ARG:O	1:G:550:ASN:HB2	1.95	0.67
1:A:462:ASN:HD21	1:A:540:LEU:HB2	1.60	0.66
1:D:260:PRO:HB2	1:D:273:LEU:HD13	1.75	0.66
1:E:486:PHE:HZ	1:E:517:MET:HE2	1.58	0.66
1:A:143:HIS:CE1	1:A:167:LEU:HB2	2.30	0.66
1:C:422:THR:CB	1:C:585:GLY:C	2.67	0.66
1:C:658:LEU:HD12	1:D:658:LEU:HA	1.76	0.66
1:D:120:GLY:O	1:D:123:ARG:N	2.29	0.66
1:D:254:LYS:O	1:D:255:PHE:CD2	2.48	0.66
1:F:105:ARG:O	1:F:106:LYS:C	2.38	0.66
1:F:260:PRO:HB2	1:F:273:LEU:HD13	1.78	0.66
1:G:191:PRO:HG3	1:G:234:LYS:NZ	2.10	0.66
1:A:254:LYS:O	1:A:255:PHE:CD2	2.49	0.66
1:A:496:LYS:O	1:A:499:GLU:HB2	1.96	0.66
1:A:527:GLU:C	1:A:529:GLU:H	2.02	0.66
1:B:402:SER:O	1:B:403:LEU:HB2	1.95	0.66
1:C:496:LYS:HB2	1:D:655:TRP:CD1	2.25	0.66
1:D:224:PRO:HG2	1:D:255:PHE:CE2	2.30	0.66
1:E:462:ASN:ND2	1:E:540:LEU:HB2	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:549:ARG:O	1:E:550:ASN:HB2	1.93	0.66
1:E:651:GLN:HE22	1:F:492:ILE:CG2	2.04	0.66
1:G:424:THR:OG1	1:G:425:HIS:ND1	2.20	0.66
1:G:475:GLU:HG2	1:G:636:MET:HE3	1.73	0.66
1:G:609:TYR:O	1:G:612:LEU:HB3	1.95	0.66
1:B:143:HIS:CE1	1:B:167:LEU:HB2	2.30	0.66
1:B:316:ASN:O	1:B:388:PHE:O	2.13	0.66
1:C:263:ASN:ND2	1:C:265:LEU:H	1.94	0.66
1:C:505:ILE:O	1:C:506:THR:O	2.12	0.66
1:D:179:CYS:CB	1:D:181:GLU:CG	2.67	0.66
1:E:492:ILE:CG2	1:F:651:GLN:HE22	2.07	0.66
1:F:224:PRO:HG2	1:F:255:PHE:CE2	2.31	0.66
1:F:433:ILE:HB	1:F:571:TYR:CZ	2.29	0.66
1:G:254:LYS:O	1:G:255:PHE:CD2	2.48	0.66
1:H:118:LYS:NZ	1:H:123:ARG:HH22	1.94	0.66
1:A:114:CYS:O	1:A:115:CYS:HB2	1.95	0.66
1:B:118:LYS:NZ	1:B:123:ARG:HH22	1.93	0.66
1:C:26:PHE:CE2	1:C:181:GLU:OE1	2.46	0.66
1:C:115:CYS:HB2	1:C:435:GLN:HG3	1.77	0.66
1:C:208:PHE:HD2	1:C:211:LEU:HD23	1.61	0.66
1:C:514:TRP:O	1:C:518:GLU:N	2.28	0.66
1:D:549:ARG:O	1:D:550:ASN:HB2	1.94	0.66
1:B:626:SER:HB2	1:B:630:LYS:HE3	1.77	0.66
1:C:433:ILE:HB	1:C:571:TYR:OH	1.96	0.66
1:C:434:TRP:HZ3	1:C:568:ARG:HG3	1.60	0.66
1:E:118:LYS:CG	1:E:265:LEU:HA	2.26	0.66
1:E:418:LYS:O	1:E:419:ARG:HB2	1.96	0.66
1:F:286:ARG:HA	1:F:290:THR:CG2	2.24	0.66
1:F:416:ASP:CG	1:F:417:PRO:HD3	2.21	0.66
1:F:500:GLN:HB3	1:F:505:ILE:CG1	2.26	0.66
1:B:179:CYS:CB	1:B:181:GLU:CG	2.69	0.66
1:C:402:SER:O	1:C:403:LEU:HB2	1.96	0.66
1:D:422:THR:HB	1:D:585:GLY:HA3	1.75	0.66
1:D:517:MET:HG3	1:D:646:ARG:HH11	1.60	0.66
1:E:118:LYS:NZ	1:E:123:ARG:HH22	1.94	0.66
1:F:357:SER:CA	1:F:453:THR:HB	2.25	0.66
1:G:134:ARG:CA	1:G:300:PHE:HZ	2.09	0.66
1:G:253:VAL:HB	1:G:255:PHE:HZ	1.59	0.66
1:G:286:ARG:HG2	1:G:286:ARG:NH1	2.08	0.66
1:A:253:VAL:HB	1:A:255:PHE:HZ	1.60	0.66
1:C:193:LEU:O	1:C:196:GLN:OE1	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:418:LYS:O	1:C:419:ARG:HB2	1.94	0.66
1:C:529:GLU:HG3	1:C:633:MET:HE1	1.78	0.66
1:E:105:ARG:O	1:E:106:LYS:C	2.38	0.66
1:F:494:LEU:HD12	1:F:514:TRP:HE3	1.59	0.66
1:G:350:GLU:HG2	1:G:391:ASP:HB2	1.77	0.66
1:H:438:ARG:NH1	1:H:568:ARG:HH21	1.93	0.66
1:C:626:SER:HB2	1:C:630:LYS:HE3	1.78	0.66
1:E:179:CYS:CB	1:E:181:GLU:CG	2.68	0.66
1:A:40:GLN:HB3	1:A:98:TYR:HD2	1.60	0.66
1:C:373:ASP:C	1:C:374:CYS:SG	2.79	0.66
1:C:659:LYS:HG2	1:D:500:GLN:HE22	1.60	0.66
1:E:49:GLU:HA	1:E:55:ARG:HD3	1.78	0.66
1:E:422:THR:CB	1:E:585:GLY:C	2.69	0.66
1:F:549:ARG:O	1:F:550:ASN:HB2	1.94	0.66
1:H:224:PRO:HG3	1:H:428:ARG:HH22	1.61	0.66
1:B:245:VAL:O	1:B:257:SER:O	2.14	0.65
1:B:394:LYS:CD	1:B:401:ILE:HA	2.26	0.65
1:D:550:ASN:OD1	1:D:611:GLN:OE1	2.14	0.65
1:E:665:VAL:HG13	1:F:665:VAL:HG13	1.78	0.65
1:F:430:TRP:HB3	1:F:571:TYR:HD2	1.61	0.65
1:G:49:GLU:HA	1:G:55:ARG:HD3	1.78	0.65
1:G:473:THR:CG2	1:G:533:LEU:HD22	2.22	0.65
1:A:260:PRO:HG3	1:A:274:GLU:HG2	1.79	0.65
1:A:418:LYS:O	1:A:419:ARG:HB2	1.95	0.65
1:A:422:THR:HG22	1:A:426:LEU:HD21	1.78	0.65
1:A:654:LEU:CD2	1:B:654:LEU:HD22	2.19	0.65
1:B:71:PRO:O	1:B:72:ASN:HB2	1.96	0.65
1:B:540:LEU:CD2	1:B:621:LYS:HZ2	2.09	0.65
1:C:71:PRO:O	1:C:72:ASN:HB2	1.95	0.65
1:D:105:ARG:O	1:D:108:LEU:N	2.29	0.65
1:E:153:LEU:CD2	1:E:162:HIS:HD1	2.08	0.65
1:E:283:TRP:O	1:E:284:HIS:HB2	1.94	0.65
1:F:418:LYS:O	1:F:419:ARG:HB2	1.95	0.65
1:G:206:TRP:C	1:G:206:TRP:CD1	2.74	0.65
1:H:49:GLU:HA	1:H:55:ARG:HD3	1.78	0.65
1:A:503:PHE:CD1	1:B:666:ARG:HB2	2.31	0.65
1:A:654:LEU:HD23	1:B:654:LEU:HD21	1.75	0.65
1:B:479:LEU:CB	1:B:640:GLU:OE2	2.36	0.65
1:G:120:GLY:H	1:G:122:ILE:H	1.44	0.65
1:G:444:CYS:C	1:G:446:ARG:H	2.04	0.65
1:A:16:GLU:HG2	1:A:83:LEU:HD13	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:LEU:CD2	1:A:269:LEU:HB3	2.27	0.65
1:B:286:ARG:HG2	1:B:286:ARG:HH11	1.60	0.65
1:C:244:VAL:HG12	1:C:278:GLN:OE1	1.97	0.65
1:C:245:VAL:O	1:C:257:SER:O	2.14	0.65
1:D:265:LEU:CD2	1:D:269:LEU:HB3	2.26	0.65
1:E:341:GLN:OE1	1:E:347:PRO:HB3	1.96	0.65
1:F:116:GLY:HA2	1:F:217:THR:O	1.95	0.65
1:F:419:ARG:N	1:F:420:PRO:HD3	2.03	0.65
1:F:422:THR:HB	1:F:585:GLY:HA2	1.77	0.65
1:H:107:TYR:HE1	1:H:153:LEU:HB2	1.61	0.65
1:H:260:PRO:HG3	1:H:274:GLU:HG2	1.77	0.65
1:C:571:TYR:CZ	1:C:590:MET:SD	2.90	0.65
1:D:644:VAL:CA	1:D:647:GLN:HE21	2.08	0.65
1:E:198:LYS:C	1:E:200:THR:H	2.04	0.65
1:F:49:GLU:HA	1:F:55:ARG:HD3	1.78	0.65
1:G:387:ILE:HD12	1:G:450:GLY:HA2	1.79	0.65
1:G:438:ARG:HG2	1:G:564:GLU:CD	2.20	0.65
1:G:533:LEU:CD2	1:G:629:VAL:HG13	2.25	0.65
1:A:260:PRO:HB2	1:A:273:LEU:HD13	1.79	0.65
1:C:105:ARG:O	1:C:108:LEU:N	2.30	0.65
1:C:192:GLU:OE1	1:C:192:GLU:HA	1.96	0.65
1:C:503:PHE:O	1:C:505:ILE:HG13	1.97	0.65
1:E:412:ILE:HG23	1:E:433:ILE:CD1	2.26	0.65
1:E:486:PHE:CE1	1:E:647:GLN:HB3	2.31	0.65
1:E:505:ILE:O	1:E:506:THR:O	2.14	0.65
1:F:244:VAL:HG12	1:F:278:GLN:OE1	1.96	0.65
1:F:318:VAL:O	1:F:320:GLY:N	2.30	0.65
1:F:319:SER:OG	1:F:403:LEU:HB2	1.97	0.65
1:G:443:ASP:O	1:G:446:ARG:HB2	1.96	0.65
1:H:350:GLU:HG2	1:H:391:ASP:HB2	1.77	0.65
1:H:416:ASP:CG	1:H:417:PRO:HD3	2.22	0.65
1:A:350:GLU:HG2	1:A:391:ASP:HB2	1.78	0.65
1:B:476:CYS:CA	1:B:636:MET:SD	2.84	0.65
1:D:118:LYS:HG3	1:D:118:LYS:O	1.96	0.65
1:E:18:LYS:HZ2	1:E:33:ILE:HG21	1.60	0.65
1:E:143:HIS:CE1	1:E:167:LEU:HB2	2.30	0.65
1:F:114:CYS:O	1:F:115:CYS:HB2	1.95	0.65
1:G:571:TYR:CE2	1:G:590:MET:HG3	2.31	0.65
1:A:49:GLU:HA	1:A:55:ARG:HD3	1.79	0.65
1:A:434:TRP:HZ3	1:A:568:ARG:CG	2.09	0.65
1:C:193:LEU:HD22	1:C:231:TRP:CD1	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:253:VAL:HB	1:D:255:PHE:HZ	1.58	0.65
1:F:191:PRO:HG3	1:F:234:LYS:NZ	2.11	0.65
1:F:317:MET:HE3	1:F:609:TYR:CZ	2.32	0.65
1:G:118:LYS:NZ	1:G:123:ARG:HH22	1.94	0.65
1:H:71:PRO:O	1:H:72:ASN:HB2	1.95	0.65
1:H:451:GLN:CD	1:H:611:GLN:HE22	2.03	0.65
1:A:286:ARG:HG2	1:A:286:ARG:HH11	1.60	0.65
1:A:357:SER:HA	1:A:453:THR:HB	1.78	0.65
1:A:610:ASP:O	1:A:613:SER:HB3	1.96	0.65
1:B:224:PRO:HG2	1:B:255:PHE:CE2	2.32	0.65
1:B:422:THR:HB	1:B:585:GLY:HA3	1.78	0.65
1:B:514:TRP:O	1:B:518:GLU:N	2.29	0.65
1:B:549:ARG:O	1:B:550:ASN:HB2	1.96	0.65
1:C:318:VAL:O	1:C:320:GLY:N	2.29	0.65
1:C:434:TRP:HZ3	1:C:568:ARG:HA	1.60	0.65
1:D:441:LYS:HB2	1:D:560:LEU:HD21	1.78	0.65
1:G:224:PRO:HG2	1:G:255:PHE:CE2	2.31	0.65
1:H:230:GLN:C	1:H:232:HIS:N	2.44	0.65
1:H:283:TRP:O	1:H:284:HIS:HB2	1.95	0.65
1:H:418:LYS:O	1:H:419:ARG:HB2	1.95	0.65
1:A:478:GLN:HB2	1:B:478:GLN:HB2	1.77	0.65
1:B:475:GLU:HG2	1:B:476:CYS:N	2.12	0.65
1:D:119:GLU:CB	1:D:121:PRO:CD	2.75	0.65
1:D:610:ASP:O	1:D:613:SER:HB3	1.97	0.65
1:E:16:GLU:HG2	1:E:83:LEU:HD13	1.79	0.65
1:E:260:PRO:HB2	1:E:273:LEU:HD13	1.79	0.65
1:E:434:TRP:HB3	1:E:571:TYR:HD1	1.60	0.65
1:E:496:LYS:O	1:E:499:GLU:HB2	1.97	0.65
1:F:422:THR:HG22	1:F:426:LEU:HD21	1.78	0.65
1:H:193:LEU:O	1:H:196:GLN:OE1	2.14	0.65
1:A:193:LEU:HD22	1:A:231:TRP:CD1	2.32	0.64
1:A:417:PRO:O	1:A:418:LYS:HG3	1.96	0.64
1:A:533:LEU:CD2	1:A:629:VAL:HG11	2.21	0.64
1:C:49:GLU:HA	1:C:55:ARG:HD3	1.78	0.64
1:C:384:GLY:O	1:C:385:ASP:HB2	1.96	0.64
1:D:387:ILE:HG21	1:D:450:GLY:CA	2.28	0.64
1:D:476:CYS:HA	1:D:636:MET:SD	2.38	0.64
1:D:497:TYR:HE2	1:D:511:LEU:HD22	1.59	0.64
1:E:244:VAL:HG12	1:E:278:GLN:OE1	1.97	0.64
1:F:222:PHE:CG	1:F:255:PHE:HB3	2.32	0.64
1:H:402:SER:O	1:H:403:LEU:HB2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:PRO:O	1:A:72:ASN:HB2	1.96	0.64
1:A:412:ILE:HG23	1:A:433:ILE:CD1	2.27	0.64
1:B:230:GLN:C	1:B:232:HIS:N	2.43	0.64
1:B:260:PRO:HG3	1:B:274:GLU:HG2	1.78	0.64
1:B:283:TRP:O	1:B:284:HIS:HB2	1.97	0.64
1:C:16:GLU:HG2	1:C:83:LEU:HD13	1.79	0.64
1:C:118:LYS:CG	1:C:265:LEU:HA	2.28	0.64
1:C:581:GLN:O	1:C:584:PRO:HD2	1.97	0.64
1:D:110:GLN:O	1:D:111:PHE:CB	2.37	0.64
1:D:318:VAL:O	1:D:320:GLY:N	2.30	0.64
1:E:654:LEU:HD12	1:F:655:TRP:CZ3	2.31	0.64
1:F:437:ILE:HG13	1:F:594:LEU:CD1	2.27	0.64
1:F:517:MET:HE1	1:F:647:GLN:OE1	1.96	0.64
1:G:118:LYS:HG2	1:G:265:LEU:HA	1.77	0.64
1:G:260:PRO:HG3	1:G:274:GLU:HG2	1.78	0.64
1:H:206:TRP:CD1	1:H:206:TRP:C	2.74	0.64
1:H:318:VAL:O	1:H:320:GLY:N	2.30	0.64
1:B:118:LYS:HG3	1:B:118:LYS:O	1.96	0.64
1:C:632:VAL:C	1:C:633:MET:SD	2.81	0.64
1:E:120:GLY:O	1:E:123:ARG:N	2.31	0.64
1:F:118:LYS:NZ	1:F:123:ARG:HH22	1.95	0.64
1:F:479:LEU:HD11	1:F:641:LYS:HG3	1.79	0.64
1:F:503:PHE:C	1:F:505:ILE:H	2.05	0.64
1:G:198:LYS:C	1:G:200:THR:H	2.05	0.64
1:G:581:GLN:O	1:G:584:PRO:HD2	1.98	0.64
1:A:514:TRP:O	1:A:518:GLU:N	2.30	0.64
1:E:118:LYS:HG2	1:E:265:LEU:HA	1.77	0.64
1:F:105:ARG:O	1:F:108:LEU:N	2.31	0.64
1:F:206:TRP:CD1	1:F:206:TRP:C	2.76	0.64
1:G:107:TYR:HE1	1:G:153:LEU:HB2	1.62	0.64
1:A:115:CYS:O	1:A:263:ASN:HA	1.98	0.64
1:A:455:MET:HE2	1:A:455:MET:O	1.96	0.64
1:B:246:TYR:CD1	1:B:258:VAL:CB	2.70	0.64
1:C:143:HIS:CE1	1:C:167:LEU:HB2	2.31	0.64
1:D:105:ARG:O	1:D:107:TYR:N	2.31	0.64
1:D:114:CYS:O	1:D:115:CYS:HB2	1.96	0.64
1:D:244:VAL:HG12	1:D:278:GLN:OE1	1.97	0.64
1:D:416:ASP:CG	1:D:417:PRO:HD3	2.22	0.64
1:D:632:VAL:C	1:D:633:MET:SD	2.81	0.64
1:F:253:VAL:HB	1:F:255:PHE:HZ	1.60	0.64
1:F:644:VAL:CA	1:F:647:GLN:HE21	2.10	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:244:VAL:HG12	1:G:278:GLN:OE1	1.97	0.64
1:H:434:TRP:HZ3	1:H:568:ARG:CA	2.10	0.64
1:H:437:ILE:HG22	1:H:564:GLU:HB2	1.78	0.64
1:A:70:HIS:CD2	1:A:71:PRO:O	2.51	0.64
1:C:224:PRO:HG2	1:C:255:PHE:CE2	2.33	0.64
1:C:341:GLN:OE1	1:C:347:PRO:HB3	1.97	0.64
1:C:529:GLU:HG3	1:C:633:MET:CE	2.27	0.64
1:D:49:GLU:HA	1:D:55:ARG:HD3	1.78	0.64
1:D:387:ILE:HD11	1:D:449:GLN:CG	2.28	0.64
1:D:387:ILE:HD12	1:D:450:GLY:N	2.12	0.64
1:F:402:SER:O	1:F:403:LEU:HB2	1.96	0.64
1:G:16:GLU:HG2	1:G:83:LEU:HD13	1.79	0.64
1:G:418:LYS:O	1:G:419:ARG:HB2	1.95	0.64
1:H:105:ARG:O	1:H:108:LEU:N	2.31	0.64
1:H:171:LYS:HA	1:H:177:GLU:HA	1.80	0.64
1:A:118:LYS:NZ	1:A:123:ARG:HH22	1.96	0.64
1:A:193:LEU:O	1:A:196:GLN:OE1	2.16	0.64
1:A:433:ILE:HB	1:A:571:TYR:OH	1.97	0.64
1:A:503:PHE:HE1	1:B:666:ARG:HG3	1.62	0.64
1:A:547:LEU:HD12	1:A:615:THR:HG22	1.77	0.64
1:B:418:LYS:O	1:B:419:ARG:HB2	1.95	0.64
1:B:443:ASP:O	1:B:446:ARG:HB2	1.97	0.64
1:D:16:GLU:HG2	1:D:83:LEU:HD13	1.78	0.64
1:E:665:VAL:HG21	1:F:665:VAL:HG22	1.78	0.64
1:H:222:PHE:CG	1:H:255:PHE:HB3	2.33	0.64
1:H:422:THR:HG22	1:H:426:LEU:HD21	1.80	0.64
1:A:244:VAL:HG12	1:A:278:GLN:OE1	1.96	0.64
1:A:386:LEU:H	1:A:386:LEU:HD12	1.63	0.64
1:B:107:TYR:HE1	1:B:153:LEU:HB2	1.63	0.64
1:E:455:MET:HE2	1:E:455:MET:O	1.97	0.64
1:G:200:THR:O	1:G:201:VAL:C	2.41	0.64
1:G:416:ASP:CG	1:G:417:PRO:HD3	2.23	0.64
1:B:384:GLY:O	1:B:385:ASP:HB2	1.97	0.64
1:B:387:ILE:CD1	1:B:450:GLY:CA	2.74	0.64
1:B:416:ASP:CG	1:B:417:PRO:HD3	2.23	0.64
1:B:455:MET:HE2	1:B:455:MET:O	1.97	0.64
1:C:286:ARG:HG2	1:C:286:ARG:HH11	1.62	0.64
1:C:485:PHE:CE2	1:D:485:PHE:CG	2.85	0.64
1:D:245:VAL:O	1:D:257:SER:O	2.16	0.64
1:D:394:LYS:HE3	1:D:609:TYR:C	2.22	0.64
1:E:245:VAL:O	1:E:257:SER:O	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:260:PRO:HG3	1:F:274:GLU:HG2	1.79	0.64
1:H:193:LEU:CD2	1:H:231:TRP:CD1	2.80	0.64
1:B:644:VAL:CA	1:B:647:GLN:HE21	2.09	0.64
1:C:119:GLU:CB	1:C:121:PRO:CD	2.76	0.64
1:C:260:PRO:HG3	1:C:274:GLU:HG2	1.78	0.64
1:C:315:MET:HE3	1:C:447:LEU:HD23	1.78	0.64
1:C:316:ASN:O	1:C:317:MET:HB2	1.98	0.64
1:D:111:PHE:CZ	1:D:572:ARG:HG3	2.33	0.64
1:D:350:GLU:HA	1:D:391:ASP:OD2	1.98	0.64
1:D:581:GLN:O	1:D:584:PRO:HD2	1.98	0.64
1:F:153:LEU:CD2	1:F:162:HIS:HD1	2.11	0.64
1:F:387:ILE:CD1	1:F:450:GLY:N	2.60	0.64
1:F:402:SER:HA	1:F:609:TYR:CG	2.33	0.64
1:G:334:GLN:HA	1:G:337:LYS:HB2	1.80	0.64
1:G:402:SER:O	1:G:403:LEU:HB2	1.98	0.64
1:B:49:GLU:HA	1:B:55:ARG:HD3	1.79	0.63
1:B:433:ILE:HB	1:B:571:TYR:OH	1.98	0.63
1:B:503:PHE:H	1:B:505:ILE:HD11	1.62	0.63
1:C:120:GLY:H	1:C:122:ILE:H	1.45	0.63
1:D:171:LYS:HA	1:D:177:GLU:HA	1.80	0.63
1:E:71:PRO:O	1:E:72:ASN:HB2	1.97	0.63
1:F:220:ARG:HH12	1:F:223:LEU:CD2	2.10	0.63
1:F:352:GLU:O	1:F:388:PHE:HA	1.99	0.63
1:F:626:SER:HB2	1:F:630:LYS:HE3	1.78	0.63
1:G:412:ILE:HG23	1:G:433:ILE:CD1	2.28	0.63
1:H:145:ASP:OD1	1:H:167:LEU:HD13	1.97	0.63
1:H:224:PRO:HG2	1:H:255:PHE:CE2	2.34	0.63
1:H:245:VAL:O	1:H:257:SER:O	2.16	0.63
1:B:16:GLU:HG2	1:B:83:LEU:HD13	1.79	0.63
1:B:408:GLU:O	1:B:409:SER:HB2	1.98	0.63
1:C:200:THR:O	1:C:201:VAL:C	2.41	0.63
1:D:193:LEU:O	1:D:196:GLN:OE1	2.16	0.63
1:E:105:ARG:O	1:E:108:LEU:N	2.30	0.63
1:E:193:LEU:O	1:E:196:GLN:OE1	2.16	0.63
1:E:473:THR:CG2	1:E:533:LEU:CD2	2.70	0.63
1:E:514:TRP:O	1:E:518:GLU:N	2.31	0.63
1:G:111:PHE:CZ	1:G:572:ARG:CG	2.70	0.63
1:G:153:LEU:CD2	1:G:162:HIS:HD1	2.11	0.63
1:H:70:HIS:CD2	1:H:71:PRO:O	2.52	0.63
1:H:422:THR:HB	1:H:585:GLY:C	2.22	0.63
1:A:145:ASP:OD1	1:A:167:LEU:HD13	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:107:TYR:HE1	1:C:153:LEU:HB2	1.63	0.63
1:C:573:ARG:HH22	1:D:573:ARG:NH1	1.95	0.63
1:D:70:HIS:CD2	1:D:71:PRO:O	2.51	0.63
1:D:246:TYR:CD1	1:D:258:VAL:CB	2.70	0.63
1:D:434:TRP:CE3	1:D:568:ARG:CA	2.68	0.63
1:E:416:ASP:CG	1:E:417:PRO:HD3	2.23	0.63
1:F:567:ALA:HA	1:F:590:MET:HE1	1.79	0.63
1:G:70:HIS:CD2	1:G:71:PRO:O	2.51	0.63
1:G:422:THR:HG22	1:G:426:LEU:HD21	1.80	0.63
1:A:105:ARG:O	1:A:107:TYR:N	2.31	0.63
1:B:70:HIS:CD2	1:B:71:PRO:O	2.52	0.63
1:B:120:GLY:HA2	1:B:123:ARG:H	1.63	0.63
1:C:362:ASN:C	1:C:364:ALA:H	2.07	0.63
1:C:416:ASP:CG	1:C:417:PRO:HD3	2.22	0.63
1:G:220:ARG:HH12	1:G:223:LEU:CD2	2.12	0.63
1:B:262:PRO:HB3	1:B:409:SER:HG	1.62	0.63
1:B:265:LEU:CD2	1:B:269:LEU:HB3	2.27	0.63
1:B:389:LEU:HD11	1:B:454:SER:OG	1.99	0.63
1:D:222:PHE:CG	1:D:255:PHE:HB3	2.34	0.63
1:D:352:GLU:O	1:D:388:PHE:HA	1.99	0.63
1:D:402:SER:O	1:D:403:LEU:HB2	1.99	0.63
1:D:402:SER:HA	1:D:609:TYR:CG	2.32	0.63
1:D:408:GLU:O	1:D:409:SER:HB2	1.98	0.63
1:D:434:TRP:HB3	1:D:571:TYR:CE1	2.32	0.63
1:E:433:ILE:HB	1:E:571:TYR:CZ	2.33	0.63
1:F:262:PRO:HB3	1:F:409:SER:HG	1.60	0.63
1:F:581:GLN:O	1:F:584:PRO:HD2	1.98	0.63
1:G:316:ASN:O	1:G:317:MET:HB2	1.96	0.63
1:A:626:SER:HB2	1:A:630:LYS:HE3	1.81	0.63
1:A:651:GLN:NE2	1:B:492:ILE:HG23	2.14	0.63
1:C:265:LEU:CD2	1:C:269:LEU:HB3	2.28	0.63
1:D:208:PHE:HD2	1:D:211:LEU:HD23	1.62	0.63
1:D:260:PRO:HG3	1:D:274:GLU:HG2	1.80	0.63
1:D:438:ARG:NH1	1:D:568:ARG:HH21	1.96	0.63
1:F:484:ASP:C	1:F:486:PHE:N	2.56	0.63
1:G:120:GLY:O	1:G:123:ARG:N	2.32	0.63
1:H:16:GLU:HG2	1:H:83:LEU:HD13	1.79	0.63
1:A:150:ASN:ND2	1:A:167:LEU:HD12	2.11	0.63
1:A:206:TRP:CD1	1:A:206:TRP:C	2.76	0.63
1:B:350:GLU:HA	1:B:391:ASP:OD2	1.98	0.63
1:C:527:GLU:O	1:C:529:GLU:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:71:PRO:O	1:D:72:ASN:HB2	1.98	0.63
1:E:208:PHE:HD2	1:E:211:LEU:HD23	1.63	0.63
1:E:318:VAL:O	1:E:320:GLY:N	2.31	0.63
1:E:581:GLN:O	1:E:584:PRO:HD2	1.98	0.63
1:F:286:ARG:HG2	1:F:286:ARG:HH11	1.64	0.63
1:H:114:CYS:O	1:H:115:CYS:HB2	1.97	0.63
1:H:244:VAL:HG12	1:H:278:GLN:OE1	1.99	0.63
1:H:387:ILE:HG21	1:H:450:GLY:CA	2.25	0.63
1:A:357:SER:CB	1:A:453:THR:HB	2.29	0.63
1:A:438:ARG:NH1	1:A:568:ARG:HH21	1.97	0.63
1:A:665:VAL:HG11	1:B:665:VAL:HG22	1.80	0.63
1:B:120:GLY:O	1:B:123:ARG:N	2.32	0.63
1:B:206:TRP:C	1:B:206:TRP:CD1	2.77	0.63
1:B:484:ASP:C	1:B:486:PHE:N	2.56	0.63
1:C:70:HIS:CD2	1:C:71:PRO:O	2.52	0.63
1:C:145:ASP:OD1	1:C:167:LEU:HD13	1.99	0.63
1:C:644:VAL:CA	1:C:647:GLN:HE21	2.10	0.63
1:C:666:ARG:HG3	1:D:503:PHE:HE1	1.64	0.63
1:E:626:SER:HB2	1:E:630:LYS:HE3	1.81	0.63
1:E:644:VAL:CA	1:E:647:GLN:HE21	2.11	0.63
1:F:71:PRO:O	1:F:72:ASN:HB2	1.98	0.63
1:F:118:LYS:HG3	1:F:118:LYS:O	1.99	0.63
1:G:434:TRP:HZ3	1:G:568:ARG:CA	2.11	0.63
1:A:416:ASP:CG	1:A:417:PRO:HD3	2.24	0.63
1:A:581:GLN:O	1:A:584:PRO:HD2	1.99	0.63
1:B:192:GLU:OE1	1:B:192:GLU:HA	1.99	0.63
1:B:430:TRP:HB3	1:B:571:TYR:CD2	2.30	0.63
1:C:350:GLU:HG2	1:C:391:ASP:HB2	1.79	0.63
1:D:107:TYR:HE1	1:D:153:LEU:HB2	1.64	0.63
1:D:286:ARG:HG2	1:D:286:ARG:HH11	1.64	0.63
1:E:345:GLY:O	1:E:347:PRO:HD3	1.99	0.63
1:F:265:LEU:CD2	1:F:269:LEU:HB3	2.28	0.63
1:F:319:SER:CB	1:F:403:LEU:HB2	2.29	0.63
1:G:134:ARG:HB2	1:G:300:PHE:HE1	1.62	0.63
1:A:419:ARG:HA	1:A:587:SER:OG	1.98	0.62
1:A:430:TRP:CE3	1:A:574:LEU:HD22	2.34	0.62
1:C:118:LYS:HG3	1:C:118:LYS:O	1.97	0.62
1:D:260:PRO:CB	1:D:273:LEU:HD13	2.30	0.62
1:E:222:PHE:CG	1:E:255:PHE:HB3	2.34	0.62
1:F:171:LYS:HA	1:F:177:GLU:HA	1.81	0.62
1:F:514:TRP:O	1:F:518:GLU:N	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:384:GLY:O	1:A:385:ASP:HB2	1.96	0.62
1:A:644:VAL:CA	1:A:647:GLN:HE21	2.10	0.62
1:E:70:HIS:CD2	1:E:71:PRO:O	2.52	0.62
1:E:386:LEU:HD12	1:E:386:LEU:H	1.63	0.62
1:E:517:MET:CE	1:E:647:GLN:OE1	2.47	0.62
1:G:263:ASN:ND2	1:G:265:LEU:H	1.97	0.62
1:H:316:ASN:O	1:H:317:MET:HB2	1.99	0.62
1:A:150:ASN:OD1	1:A:150:ASN:N	2.32	0.62
1:A:494:LEU:HD12	1:A:514:TRP:HE3	1.63	0.62
1:C:500:GLN:HB3	1:C:505:ILE:HG12	1.81	0.62
1:D:143:HIS:CD2	1:D:145:ASP:O	2.51	0.62
1:D:192:GLU:HA	1:D:192:GLU:OE1	1.98	0.62
1:E:350:GLU:HA	1:E:391:ASP:OD2	1.99	0.62
1:E:478:GLN:HA	1:F:478:GLN:HB2	1.81	0.62
1:F:70:HIS:CD2	1:F:71:PRO:O	2.52	0.62
1:G:30:LEU:HD13	1:G:32:TRP:HE1	1.65	0.62
1:G:610:ASP:O	1:G:613:SER:HB3	1.99	0.62
1:H:394:LYS:HG2	1:H:401:ILE:N	2.12	0.62
1:H:581:GLN:O	1:H:584:PRO:HD2	1.99	0.62
1:H:626:SER:HB2	1:H:630:LYS:HE3	1.79	0.62
1:C:260:PRO:CB	1:C:273:LEU:HD13	2.29	0.62
1:E:387:ILE:HD12	1:E:450:GLY:N	2.14	0.62
1:F:143:HIS:CD2	1:F:145:ASP:O	2.51	0.62
1:G:150:ASN:OD1	1:G:150:ASN:N	2.32	0.62
1:G:283:TRP:O	1:G:284:HIS:HB2	1.99	0.62
1:H:63:GLN:O	1:H:67:LYS:HB2	1.99	0.62
1:H:105:ARG:O	1:H:106:LYS:C	2.42	0.62
1:B:134:ARG:CA	1:B:300:PHE:CZ	2.80	0.62
1:C:419:ARG:NH1	1:C:588:ASN:HA	2.14	0.62
1:D:186:LEU:HD23	1:D:227:GLN:HG2	1.81	0.62
1:E:547:LEU:HD22	1:E:611:GLN:CG	2.28	0.62
1:F:447:LEU:HD12	1:F:605:VAL:CG2	2.28	0.62
1:G:17:MET:HA	1:G:33:ILE:O	2.00	0.62
1:G:362:ASN:C	1:G:364:ALA:H	2.06	0.62
1:G:387:ILE:HD13	1:G:450:GLY:HA2	1.79	0.62
1:G:419:ARG:HA	1:G:587:SER:OG	2.00	0.62
1:H:362:ASN:C	1:H:364:ALA:H	2.07	0.62
1:A:208:PHE:HD2	1:A:211:LEU:HD23	1.65	0.62
1:A:263:ASN:ND2	1:A:265:LEU:H	1.96	0.62
1:B:581:GLN:O	1:B:584:PRO:HD2	2.00	0.62
1:D:119:GLU:HB2	1:D:121:PRO:CD	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:362:ASN:C	1:D:364:ALA:H	2.07	0.62
1:E:107:TYR:HE1	1:E:153:LEU:HB2	1.64	0.62
1:F:192:GLU:OE1	1:F:192:GLU:HA	1.98	0.62
1:H:208:PHE:HD2	1:H:211:LEU:HD23	1.63	0.62
1:A:222:PHE:CG	1:A:255:PHE:HB3	2.35	0.62
1:B:222:PHE:CG	1:B:255:PHE:HB3	2.35	0.62
1:B:359:LEU:HA	1:B:460:ARG:HH12	1.64	0.62
1:D:386:LEU:H	1:D:386:LEU:HD12	1.62	0.62
1:E:286:ARG:HG2	1:E:286:ARG:HH11	1.64	0.62
1:F:16:GLU:HG2	1:F:83:LEU:HD13	1.80	0.62
1:F:150:ASN:ND2	1:F:167:LEU:HD12	2.14	0.62
1:G:103:ASP:HB3	1:G:106:LYS:HG3	1.81	0.62
1:G:563:LEU:HD21	1:G:596:LEU:HB2	1.81	0.62
1:H:455:MET:HE2	1:H:455:MET:O	2.00	0.62
1:B:276:TRP:CE3	1:B:277:LEU:HD23	2.34	0.62
1:C:484:ASP:C	1:C:486:PHE:N	2.56	0.62
1:D:190:ALA:HB2	1:D:206:TRP:CG	2.35	0.62
1:D:480:LYS:NZ	1:D:527:GLU:HB2	2.15	0.62
1:E:192:GLU:OE1	1:E:192:GLU:HA	2.00	0.62
1:F:134:ARG:CA	1:F:300:PHE:CZ	2.75	0.62
1:F:455:MET:HE2	1:F:455:MET:O	1.99	0.62
1:G:105:ARG:O	1:G:106:LYS:C	2.40	0.62
1:G:580:ASP:HA	1:G:582:ARG:NH1	2.15	0.62
1:A:200:THR:O	1:A:201:VAL:C	2.43	0.62
1:B:105:ARG:O	1:B:108:LEU:N	2.32	0.62
1:B:193:LEU:O	1:B:196:GLN:OE1	2.17	0.62
1:B:441:LYS:HB2	1:B:560:LEU:HD22	1.81	0.62
1:C:105:ARG:O	1:C:107:TYR:N	2.32	0.62
1:C:422:THR:HG22	1:C:426:LEU:HD21	1.81	0.62
1:E:402:SER:HA	1:E:609:TYR:CG	2.35	0.62
1:E:480:LYS:HZ2	1:E:525:GLY:C	2.08	0.62
1:E:632:VAL:C	1:E:633:MET:SD	2.83	0.62
1:F:30:LEU:HD13	1:F:32:TRP:HE1	1.65	0.62
1:F:368:THR:HA	1:F:371:VAL:CG2	2.30	0.62
1:H:153:LEU:CD2	1:H:162:HIS:HD1	2.12	0.62
1:A:426:LEU:HB2	1:A:574:LEU:HD21	1.82	0.62
1:A:580:ASP:HA	1:A:582:ARG:NH1	2.15	0.62
1:B:198:LYS:C	1:B:200:THR:H	2.08	0.62
1:B:318:VAL:O	1:B:320:GLY:N	2.32	0.62
1:D:480:LYS:CE	1:D:527:GLU:HB2	2.30	0.62
1:D:514:TRP:O	1:D:518:GLU:N	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:150:ASN:ND2	1:E:167:LEU:HD12	2.14	0.62
1:E:191:PRO:HG3	1:E:234:LYS:HZ2	1.63	0.62
1:F:105:ARG:O	1:F:107:TYR:N	2.33	0.62
1:G:386:LEU:H	1:G:386:LEU:HD12	1.62	0.62
1:H:72:ASN:O	1:H:163:LYS:HA	2.00	0.62
1:H:334:GLN:HA	1:H:337:LYS:HB2	1.82	0.62
1:A:107:TYR:HE1	1:A:153:LEU:HB2	1.63	0.61
1:A:179:CYS:CB	1:A:181:GLU:CG	2.67	0.61
1:A:192:GLU:HA	1:A:192:GLU:OE1	1.99	0.61
1:A:224:PRO:HG2	1:A:255:PHE:HE2	1.64	0.61
1:A:345:GLY:O	1:A:347:PRO:HD3	2.00	0.61
1:A:434:TRP:CZ3	1:A:568:ARG:HG3	2.31	0.61
1:A:434:TRP:HZ3	1:A:568:ARG:CA	2.09	0.61
1:B:143:HIS:CD2	1:B:145:ASP:O	2.53	0.61
1:D:118:LYS:NZ	1:D:123:ARG:HH22	1.96	0.61
1:G:150:ASN:ND2	1:G:167:LEU:HD12	2.13	0.61
1:H:17:MET:HA	1:H:33:ILE:O	2.00	0.61
1:H:103:ASP:HB3	1:H:106:LYS:HG3	1.82	0.61
1:H:118:LYS:HG3	1:H:118:LYS:O	1.99	0.61
1:A:571:TYR:CZ	1:A:590:MET:SD	2.93	0.61
1:A:651:GLN:HE22	1:B:492:ILE:HG23	1.65	0.61
1:B:72:ASN:O	1:B:163:LYS:HA	2.00	0.61
1:B:263:ASN:ND2	1:B:265:LEU:H	1.96	0.61
1:C:580:ASP:HA	1:C:582:ARG:NH1	2.15	0.61
1:D:263:ASN:ND2	1:D:265:LEU:H	1.98	0.61
1:F:208:PHE:HD2	1:F:211:LEU:HD23	1.64	0.61
1:F:362:ASN:C	1:F:364:ALA:H	2.08	0.61
1:H:263:ASN:ND2	1:H:265:LEU:H	1.98	0.61
1:H:386:LEU:H	1:H:386:LEU:HD12	1.64	0.61
1:A:153:LEU:CD2	1:A:162:HIS:HD1	2.14	0.61
1:A:362:ASN:C	1:A:364:ALA:H	2.09	0.61
1:A:434:TRP:HZ3	1:A:568:ARG:HA	1.54	0.61
1:B:171:LYS:HA	1:B:177:GLU:HA	1.82	0.61
1:C:441:LYS:HB2	1:C:560:LEU:CD2	2.29	0.61
1:C:660:ILE:HG23	1:C:661:ALA:N	2.15	0.61
1:D:150:ASN:OD1	1:D:150:ASN:N	2.33	0.61
1:E:116:GLY:HA2	1:E:217:THR:O	2.00	0.61
1:F:63:GLN:O	1:F:67:LYS:HB2	2.00	0.61
1:F:146:LEU:HA	1:F:150:ASN:HD21	1.65	0.61
1:G:570:LEU:CD2	1:G:590:MET:HE2	2.30	0.61
1:H:260:PRO:CB	1:H:273:LEU:HD13	2.29	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:MET:HA	1:A:33:ILE:O	2.00	0.61
1:A:143:HIS:CD2	1:A:145:ASP:O	2.52	0.61
1:A:350:GLU:HA	1:A:391:ASP:OD2	1.99	0.61
1:A:527:GLU:C	1:A:529:GLU:N	2.55	0.61
1:B:362:ASN:C	1:B:364:ALA:H	2.07	0.61
1:C:455:MET:HE2	1:C:455:MET:O	2.00	0.61
1:D:334:GLN:HA	1:D:337:LYS:HB2	1.81	0.61
1:E:105:ARG:O	1:E:107:TYR:N	2.33	0.61
1:E:150:ASN:OD1	1:E:150:ASN:N	2.34	0.61
1:E:224:PRO:HG2	1:E:255:PHE:CE2	2.36	0.61
1:H:286:ARG:HG2	1:H:286:ARG:HH11	1.64	0.61
1:H:408:GLU:O	1:H:409:SER:HB2	1.99	0.61
1:A:484:ASP:C	1:A:486:PHE:N	2.56	0.61
1:A:665:VAL:CG1	1:B:665:VAL:HG22	2.30	0.61
1:B:422:THR:HG22	1:B:426:LEU:HD21	1.81	0.61
1:B:441:LYS:HD2	1:B:561:ASP:OD1	2.01	0.61
1:C:386:LEU:H	1:C:386:LEU:HD12	1.65	0.61
1:D:283:TRP:O	1:D:284:HIS:HB2	2.01	0.61
1:F:345:GLY:O	1:F:347:PRO:HD3	2.00	0.61
1:F:386:LEU:H	1:F:386:LEU:HD12	1.64	0.61
1:F:660:ILE:HG23	1:F:661:ALA:N	2.15	0.61
1:G:145:ASP:OD1	1:G:167:LEU:HD13	2.01	0.61
1:G:193:LEU:O	1:G:196:GLN:OE1	2.18	0.61
1:G:408:GLU:O	1:G:409:SER:HB2	2.00	0.61
1:A:63:GLN:O	1:A:67:LYS:HB2	2.01	0.61
1:A:245:VAL:O	1:A:257:SER:O	2.18	0.61
1:A:334:GLN:HA	1:A:337:LYS:HB2	1.82	0.61
1:A:402:SER:O	1:A:403:LEU:HB2	1.99	0.61
1:B:208:PHE:HD2	1:B:211:LEU:HD23	1.65	0.61
1:C:191:PRO:HG3	1:C:234:LYS:NZ	2.16	0.61
1:C:373:ASP:CG	1:C:374:CYS:SG	2.83	0.61
1:C:408:GLU:O	1:C:409:SER:HB2	2.00	0.61
1:C:451:GLN:CD	1:C:611:GLN:NE2	2.59	0.61
1:D:384:GLY:O	1:D:385:ASP:HB2	1.99	0.61
1:E:105:ARG:HG2	1:E:109:ASN:HD21	1.66	0.61
1:E:271:GLY:HA2	1:E:275:ARG:HH21	1.66	0.61
1:G:222:PHE:CG	1:G:255:PHE:HB3	2.35	0.61
1:A:120:GLY:O	1:A:123:ARG:N	2.33	0.61
1:A:438:ARG:HG2	1:A:564:GLU:CG	2.30	0.61
1:A:492:ILE:HD13	1:B:651:GLN:HE21	1.66	0.61
1:A:658:LEU:HA	1:B:658:LEU:CD1	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:17:MET:HA	1:B:33:ILE:O	1.99	0.61
1:B:26:PHE:CE2	1:B:181:GLU:OE1	2.53	0.61
1:C:120:GLY:O	1:C:123:ARG:N	2.33	0.61
1:E:43:ILE:HA	1:E:94:LEU:O	2.00	0.61
1:E:118:LYS:HG3	1:E:118:LYS:O	2.00	0.61
1:E:362:ASN:C	1:E:364:ALA:H	2.09	0.61
1:E:462:ASN:ND2	1:E:540:LEU:CB	2.63	0.61
1:F:17:MET:HA	1:F:33:ILE:O	2.00	0.61
1:F:107:TYR:HE1	1:F:153:LEU:HB2	1.64	0.61
1:G:316:ASN:O	1:G:317:MET:CB	2.49	0.61
1:G:455:MET:HE2	1:G:455:MET:O	2.00	0.61
1:A:283:TRP:O	1:A:284:HIS:HB2	2.00	0.61
1:A:316:ASN:O	1:A:317:MET:HB2	1.99	0.61
1:B:153:LEU:CD2	1:B:162:HIS:HD1	2.12	0.61
1:C:30:LEU:HD13	1:C:32:TRP:HE1	1.66	0.61
1:C:72:ASN:O	1:C:163:LYS:HA	2.01	0.61
1:D:660:ILE:HG23	1:D:661:ALA:N	2.14	0.61
1:E:547:LEU:HD12	1:E:615:THR:CG2	2.04	0.61
1:H:359:LEU:HA	1:H:460:ARG:HH12	1.66	0.61
1:H:422:THR:HB	1:H:585:GLY:HA3	1.81	0.61
1:A:408:GLU:O	1:A:409:SER:HB2	2.01	0.61
1:B:200:THR:O	1:B:201:VAL:C	2.43	0.61
1:B:345:GLY:O	1:B:347:PRO:HD3	2.01	0.61
1:B:386:LEU:HD12	1:B:386:LEU:H	1.65	0.61
1:E:334:GLN:HA	1:E:337:LYS:HB2	1.83	0.61
1:E:500:GLN:CB	1:E:505:ILE:HG12	2.30	0.61
1:F:563:LEU:HD23	1:F:597:ALA:HB2	1.83	0.61
1:F:580:ASP:HA	1:F:582:ARG:NH1	2.16	0.61
1:A:357:SER:HB3	1:A:453:THR:CB	2.31	0.61
1:B:105:ARG:O	1:B:107:TYR:N	2.34	0.61
1:B:352:GLU:O	1:B:388:PHE:HA	2.00	0.61
1:B:434:TRP:HB3	1:B:571:TYR:CE1	2.36	0.61
1:B:570:LEU:HD23	1:B:590:MET:HG2	1.81	0.61
1:B:632:VAL:C	1:B:633:MET:SD	2.84	0.61
1:C:143:HIS:CD2	1:C:145:ASP:O	2.53	0.61
1:D:198:LYS:C	1:D:200:THR:H	2.08	0.61
1:E:17:MET:HA	1:E:33:ILE:O	2.01	0.61
1:E:384:GLY:O	1:E:385:ASP:HB2	2.00	0.61
1:E:402:SER:HA	1:E:609:TYR:CD1	2.36	0.61
1:E:480:LYS:NZ	1:E:525:GLY:C	2.59	0.61
1:F:437:ILE:HG13	1:F:594:LEU:HD12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:105:ARG:HG2	1:G:109:ASN:HD21	1.66	0.61
1:H:120:GLY:HA2	1:H:123:ARG:HB2	1.83	0.61
1:H:192:GLU:OE1	1:H:192:GLU:HA	2.00	0.61
1:B:120:GLY:HA2	1:B:123:ARG:HB2	1.83	0.60
1:B:637:ARG:O	1:B:641:LYS:N	2.28	0.60
1:C:153:LEU:CD2	1:C:162:HIS:HD1	2.10	0.60
1:D:153:LEU:CD2	1:D:162:HIS:HD1	2.13	0.60
1:D:200:THR:O	1:D:201:VAL:C	2.42	0.60
1:D:387:ILE:HD12	1:D:450:GLY:HA2	1.82	0.60
1:E:119:GLU:CB	1:E:121:PRO:CD	2.80	0.60
1:E:408:GLU:O	1:E:409:SER:HB2	2.01	0.60
1:F:26:PHE:HE2	1:F:181:GLU:OE1	1.84	0.60
1:F:271:GLY:HA2	1:F:275:ARG:HH21	1.65	0.60
1:F:423:TYR:CD2	1:F:424:THR:HG23	2.35	0.60
1:F:434:TRP:CZ3	1:F:568:ARG:CA	2.77	0.60
1:G:409:SER:HB3	1:G:412:ILE:HD12	1.83	0.60
1:G:626:SER:HB2	1:G:630:LYS:HE3	1.80	0.60
1:H:143:HIS:CD2	1:H:145:ASP:O	2.54	0.60
1:C:651:GLN:HE22	1:D:492:ILE:CG2	1.98	0.60
1:C:654:LEU:HD11	1:D:655:TRP:HE3	1.64	0.60
1:D:145:ASP:OD1	1:D:167:LEU:HD13	2.00	0.60
1:D:345:GLY:O	1:D:347:PRO:HD3	2.00	0.60
1:D:626:SER:HB2	1:D:630:LYS:HE3	1.81	0.60
1:E:492:ILE:CG2	1:F:651:GLN:NE2	2.63	0.60
1:E:580:ASP:HA	1:E:582:ARG:NH1	2.16	0.60
1:F:145:ASP:OD1	1:F:167:LEU:HD13	2.01	0.60
1:G:260:PRO:CB	1:G:273:LEU:HD13	2.31	0.60
1:H:368:THR:HA	1:H:371:VAL:CG2	2.31	0.60
1:H:580:ASP:HA	1:H:582:ARG:NH1	2.16	0.60
1:A:171:LYS:HA	1:A:177:GLU:HA	1.83	0.60
1:A:500:GLN:HE22	1:B:659:LYS:HG2	1.65	0.60
1:B:220:ARG:HH12	1:B:223:LEU:CD2	2.14	0.60
1:C:333:LEU:HD11	1:C:353:LEU:HD13	1.83	0.60
1:D:434:TRP:HZ3	1:D:568:ARG:HG3	1.66	0.60
1:D:503:PHE:H	1:D:505:ILE:HD11	1.66	0.60
1:E:115:CYS:HB2	1:E:435:GLN:HG3	1.83	0.60
1:E:434:TRP:HE3	1:E:568:ARG:HA	1.62	0.60
1:F:120:GLY:O	1:F:123:ARG:N	2.35	0.60
1:F:120:GLY:HA2	1:F:123:ARG:H	1.67	0.60
1:G:570:LEU:HD23	1:G:590:MET:HE2	1.83	0.60
1:H:200:THR:O	1:H:201:VAL:C	2.44	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:570:LEU:HD23	1:A:590:MET:HE2	1.83	0.60
1:B:320:GLY:O	1:B:321:ARG:C	2.45	0.60
1:B:521:VAL:HA	1:B:524:CYS:HG	1.65	0.60
1:C:222:PHE:CG	1:C:255:PHE:HB3	2.36	0.60
1:D:220:ARG:HH12	1:D:223:LEU:CD2	2.14	0.60
1:E:117:LEU:O	1:E:119:GLU:HG2	2.00	0.60
1:E:462:ASN:HD21	1:E:540:LEU:CB	2.13	0.60
1:E:527:GLU:O	1:E:529:GLU:N	2.35	0.60
1:F:193:LEU:O	1:F:196:GLN:OE1	2.18	0.60
1:G:146:LEU:HA	1:G:150:ASN:HD21	1.67	0.60
1:H:18:LYS:HZ2	1:H:33:ILE:HG21	1.64	0.60
1:H:43:ILE:HA	1:H:94:LEU:O	2.01	0.60
1:A:72:ASN:O	1:A:163:LYS:HA	2.01	0.60
1:A:83:LEU:HD21	1:A:86:LEU:HD11	1.83	0.60
1:A:220:ARG:HH12	1:A:223:LEU:CD2	2.15	0.60
1:B:30:LEU:HD13	1:B:32:TRP:HE1	1.67	0.60
1:B:419:ARG:N	1:B:420:PRO:HD3	2.03	0.60
1:C:17:MET:HA	1:C:33:ILE:O	2.01	0.60
1:C:171:LYS:HA	1:C:177:GLU:HA	1.82	0.60
1:D:30:LEU:HD13	1:D:32:TRP:HE1	1.66	0.60
1:D:43:ILE:HA	1:D:94:LEU:O	2.01	0.60
1:D:146:LEU:HA	1:D:150:ASN:HD21	1.66	0.60
1:E:265:LEU:HD21	1:E:269:LEU:HB3	1.83	0.60
1:E:473:THR:CG2	1:E:533:LEU:HD22	2.26	0.60
1:F:110:GLN:O	1:F:111:PHE:CB	2.34	0.60
1:F:120:GLY:HA2	1:F:123:ARG:HB2	1.84	0.60
1:F:245:VAL:O	1:F:257:SER:O	2.19	0.60
1:F:384:GLY:O	1:F:385:ASP:HB2	2.01	0.60
1:F:441:LYS:HB2	1:F:560:LEU:CD2	2.32	0.60
1:F:527:GLU:O	1:F:529:GLU:N	2.35	0.60
1:H:387:ILE:CD1	1:H:450:GLY:N	2.64	0.60
1:B:334:GLN:HA	1:B:337:LYS:HB2	1.82	0.60
1:C:263:ASN:ND2	1:C:265:LEU:N	2.49	0.60
1:D:320:GLY:O	1:D:321:ARG:C	2.45	0.60
1:D:499:GLU:C	1:D:500:GLN:HE21	2.10	0.60
1:G:208:PHE:HD2	1:G:211:LEU:HD23	1.66	0.60
1:A:222:PHE:CZ	1:A:225:ASN:HB2	2.37	0.60
1:A:409:SER:HB3	1:A:412:ILE:HD12	1.82	0.60
1:B:50:LEU:H	1:B:55:ARG:HD3	1.67	0.60
1:D:224:PRO:HG2	1:D:255:PHE:HE2	1.66	0.60
1:D:455:MET:O	1:D:455:MET:HE2	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:30:LEU:HD13	1:E:32:TRP:HE1	1.66	0.60
1:E:143:HIS:CD2	1:E:145:ASP:O	2.52	0.60
1:E:145:ASP:OD1	1:E:167:LEU:HD13	2.01	0.60
1:E:644:VAL:O	1:E:644:VAL:HG12	2.02	0.60
1:F:333:LEU:HD11	1:F:353:LEU:HD13	1.82	0.60
1:G:68:LEU:HB3	1:G:135:TYR:HE2	1.66	0.60
1:H:352:GLU:O	1:H:388:PHE:HA	2.02	0.60
1:H:570:LEU:HD23	1:H:590:MET:HG2	1.82	0.60
1:B:503:PHE:O	1:B:505:ILE:HG13	2.02	0.60
1:C:63:GLN:O	1:C:67:LYS:HB2	2.02	0.60
1:C:150:ASN:OD1	1:C:150:ASN:N	2.31	0.60
1:D:387:ILE:CD1	1:D:450:GLY:N	2.65	0.60
1:D:580:ASP:HA	1:D:582:ARG:NH1	2.16	0.60
1:E:63:GLN:O	1:E:67:LYS:HB2	2.01	0.60
1:E:120:GLY:HA2	1:E:123:ARG:H	1.65	0.60
1:E:503:PHE:C	1:E:505:ILE:H	2.09	0.60
1:F:115:CYS:O	1:F:263:ASN:HA	2.01	0.60
1:F:493:ASP:HB3	1:F:514:TRP:CH2	2.36	0.60
1:F:587:SER:OG	1:F:588:ASN:N	2.34	0.60
1:A:419:ARG:N	1:A:420:PRO:HD3	2.04	0.60
1:A:632:VAL:C	1:A:633:MET:SD	2.85	0.60
1:C:246:TYR:CD1	1:C:258:VAL:CB	2.71	0.60
1:C:422:THR:CB	1:C:585:GLY:CA	2.69	0.60
1:C:497:TYR:HB2	1:D:655:TRP:CH2	2.37	0.60
1:C:502:GLU:HG3	1:D:666:ARG:HH11	1.64	0.60
1:D:206:TRP:CD1	1:D:206:TRP:C	2.78	0.60
1:E:200:THR:O	1:E:201:VAL:C	2.45	0.60
1:F:119:GLU:CB	1:F:121:PRO:CD	2.80	0.60
1:F:224:PRO:HG2	1:F:255:PHE:HE2	1.67	0.60
1:F:283:TRP:O	1:F:284:HIS:HB2	2.01	0.60
1:F:408:GLU:O	1:F:409:SER:HB2	2.01	0.60
1:G:105:ARG:O	1:G:107:TYR:N	2.35	0.60
1:H:182:PHE:CE1	1:H:194:LEU:HD22	2.36	0.60
1:H:220:ARG:HH12	1:H:223:LEU:CD2	2.14	0.60
1:H:271:GLY:HA2	1:H:275:ARG:HH21	1.65	0.60
1:A:373:ASP:C	1:A:374:CYS:SG	2.83	0.60
1:A:422:THR:HB	1:A:585:GLY:C	2.27	0.60
1:B:63:GLN:O	1:B:67:LYS:HB2	2.01	0.60
1:B:260:PRO:CB	1:B:273:LEU:HD13	2.32	0.60
1:D:17:MET:HA	1:D:33:ILE:O	2.01	0.60
1:D:63:GLN:O	1:D:67:LYS:HB2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:103:ASP:HB3	1:D:106:LYS:HG3	1.84	0.60
1:D:316:ASN:O	1:D:317:MET:HB2	2.00	0.60
1:E:171:LYS:HA	1:E:177:GLU:HA	1.82	0.60
1:G:286:ARG:HG2	1:G:286:ARG:HH11	1.64	0.60
1:A:644:VAL:O	1:A:644:VAL:HG12	2.01	0.59
1:B:271:GLY:HA2	1:B:275:ARG:HH21	1.67	0.59
1:C:43:ILE:HA	1:C:94:LEU:O	2.02	0.59
1:C:473:THR:CG2	1:C:533:LEU:HD22	2.27	0.59
1:D:333:LEU:HD11	1:D:353:LEU:HD13	1.84	0.59
1:D:422:THR:CB	1:D:585:GLY:C	2.74	0.59
1:D:500:GLN:HB3	1:D:505:ILE:HG12	1.84	0.59
1:G:192:GLU:OE1	1:G:192:GLU:HA	2.02	0.59
1:G:271:GLY:HA2	1:G:275:ARG:HH21	1.67	0.59
1:G:352:GLU:O	1:G:388:PHE:HA	2.02	0.59
1:H:409:SER:HB3	1:H:412:ILE:HD12	1.84	0.59
1:H:423:TYR:CD2	1:H:424:THR:HG23	2.37	0.59
1:A:182:PHE:CE1	1:A:194:LEU:HD22	2.37	0.59
1:A:507:SER:C	1:A:509:LYS:H	2.10	0.59
1:B:105:ARG:HG2	1:B:109:ASN:HD21	1.66	0.59
1:B:434:TRP:HZ3	1:B:568:ARG:CB	2.15	0.59
1:C:119:GLU:HB2	1:C:121:PRO:CD	2.32	0.59
1:C:134:ARG:CA	1:C:300:PHE:CZ	2.76	0.59
1:C:150:ASN:ND2	1:C:167:LEU:HD12	2.13	0.59
1:C:496:LYS:CB	1:D:655:TRP:NE1	2.09	0.59
1:C:499:GLU:C	1:C:500:GLN:HE21	2.10	0.59
1:D:319:SER:O	1:D:321:ARG:N	2.35	0.59
1:E:219:PHE:O	1:E:220:ARG:HG3	1.88	0.59
1:E:222:PHE:CZ	1:E:225:ASN:HB2	2.38	0.59
1:F:260:PRO:CB	1:F:273:LEU:HD13	2.32	0.59
1:A:246:TYR:CD1	1:A:258:VAL:CB	2.70	0.59
1:B:103:ASP:HB3	1:B:106:LYS:HG3	1.85	0.59
1:B:150:ASN:OD1	1:B:150:ASN:N	2.35	0.59
1:B:150:ASN:ND2	1:B:167:LEU:HD12	2.15	0.59
1:B:423:TYR:CD2	1:B:424:THR:HG23	2.36	0.59
1:C:316:ASN:O	1:C:317:MET:CB	2.50	0.59
1:C:476:CYS:HB2	1:C:636:MET:SD	2.42	0.59
1:C:485:PHE:CE1	1:D:485:PHE:CD1	2.90	0.59
1:D:531:GLN:O	1:D:535:ASP:N	2.34	0.59
1:E:319:SER:CB	1:E:403:LEU:HB2	2.31	0.59
1:E:373:ASP:C	1:E:374:CYS:SG	2.85	0.59
1:E:472:MET:HG3	1:E:472:MET:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:320:GLY:O	1:F:321:ARG:C	2.44	0.59
1:G:276:TRP:CE3	1:G:277:LEU:HD23	2.37	0.59
1:G:394:LYS:HD2	1:G:613:SER:HB2	1.82	0.59
1:H:134:ARG:HD2	1:H:300:PHE:CE1	2.37	0.59
1:H:193:LEU:HD22	1:H:231:TRP:NE1	2.16	0.59
1:H:276:TRP:CE3	1:H:277:LEU:HD23	2.37	0.59
1:A:146:LEU:HA	1:A:150:ASN:HD21	1.67	0.59
1:A:276:TRP:CE3	1:A:277:LEU:HD23	2.37	0.59
1:A:531:GLN:O	1:A:535:ASP:N	2.35	0.59
1:B:146:LEU:HA	1:B:150:ASN:HD21	1.67	0.59
1:B:499:GLU:C	1:B:500:GLN:HE21	2.10	0.59
1:C:50:LEU:H	1:C:55:ARG:HD3	1.68	0.59
1:D:182:PHE:CE1	1:D:194:LEU:HD22	2.38	0.59
1:D:409:SER:HB3	1:D:412:ILE:HD12	1.84	0.59
1:D:433:ILE:CB	1:D:571:TYR:OH	2.49	0.59
1:E:50:LEU:H	1:E:55:ARG:HD3	1.68	0.59
1:G:171:LYS:HA	1:G:177:GLU:HA	1.83	0.59
1:G:350:GLU:HA	1:G:391:ASP:OD2	2.02	0.59
1:H:30:LEU:HD13	1:H:32:TRP:HE1	1.67	0.59
1:H:316:ASN:O	1:H:317:MET:CB	2.50	0.59
1:H:384:GLY:O	1:H:385:ASP:HB2	2.00	0.59
1:A:333:LEU:HD11	1:A:353:LEU:HD13	1.85	0.59
1:B:119:GLU:CB	1:B:121:PRO:CD	2.80	0.59
1:D:83:LEU:HD21	1:D:86:LEU:HD11	1.85	0.59
1:E:103:ASP:HB3	1:E:106:LYS:HG3	1.83	0.59
1:E:570:LEU:HD23	1:E:590:MET:HE2	1.84	0.59
1:E:570:LEU:HD23	1:E:590:MET:HG2	1.83	0.59
1:E:660:ILE:HG23	1:E:661:ALA:N	2.15	0.59
1:F:105:ARG:HG2	1:F:109:ASN:HD21	1.67	0.59
1:F:200:THR:O	1:F:201:VAL:C	2.44	0.59
1:F:319:SER:OG	1:F:403:LEU:CB	2.50	0.59
1:F:334:GLN:HA	1:F:337:LYS:HB2	1.84	0.59
1:F:387:ILE:HG21	1:F:450:GLY:CA	2.29	0.59
1:G:632:VAL:C	1:G:633:MET:SD	2.86	0.59
1:H:150:ASN:ND2	1:H:167:LEU:HD12	2.15	0.59
1:A:30:LEU:HD13	1:A:32:TRP:HE1	1.65	0.59
1:A:285:GLN:NE2	1:A:286:ARG:HH12	2.00	0.59
1:B:540:LEU:HD22	1:B:621:LYS:NZ	2.17	0.59
1:E:116:GLY:N	1:E:217:THR:O	2.36	0.59
1:E:497:TYR:O	1:E:497:TYR:HD2	1.85	0.59
1:F:632:VAL:C	1:F:633:MET:SD	2.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:63:GLN:O	1:G:67:LYS:HB2	2.02	0.59
1:G:120:GLY:HA2	1:G:123:ARG:HB2	1.85	0.59
1:H:265:LEU:HD21	1:H:269:LEU:HB3	1.85	0.59
1:A:43:ILE:HA	1:A:94:LEU:O	2.01	0.59
1:A:352:GLU:O	1:A:388:PHE:HA	2.03	0.59
1:A:423:TYR:CD2	1:A:424:THR:HG23	2.37	0.59
1:B:580:ASP:HA	1:B:582:ARG:NH1	2.17	0.59
1:C:348:GLU:H	1:C:348:GLU:CD	2.11	0.59
1:C:644:VAL:O	1:C:644:VAL:HG12	2.03	0.59
1:D:191:PRO:HG3	1:D:234:LYS:HZ2	1.67	0.59
1:D:433:ILE:CG2	1:D:571:TYR:OH	2.50	0.59
1:F:434:TRP:HZ3	1:F:568:ARG:HA	1.58	0.59
1:F:531:GLN:O	1:F:535:ASP:N	2.36	0.59
1:G:368:THR:HA	1:G:371:VAL:CG2	2.32	0.59
1:G:384:GLY:O	1:G:385:ASP:HB2	2.00	0.59
1:A:198:LYS:C	1:A:200:THR:H	2.10	0.59
1:A:368:THR:HA	1:A:371:VAL:CG2	2.32	0.59
1:A:497:TYR:O	1:A:497:TYR:HD2	1.85	0.59
1:B:409:SER:HB3	1:B:412:ILE:HD12	1.82	0.59
1:B:501:MET:CA	1:B:505:ILE:HD13	2.33	0.59
1:C:462:ASN:HD21	1:C:540:LEU:CB	2.13	0.59
1:D:319:SER:CB	1:D:403:LEU:HB2	2.32	0.59
1:G:434:TRP:HZ3	1:G:568:ARG:HA	1.57	0.59
1:B:182:PHE:CE1	1:B:194:LEU:HD22	2.37	0.59
1:C:249:LEU:O	1:C:250:THR:HG23	2.03	0.59
1:D:50:LEU:H	1:D:55:ARG:HD3	1.68	0.59
1:E:18:LYS:HZ2	1:E:33:ILE:HD12	1.67	0.59
1:E:402:SER:O	1:E:403:LEU:HB2	2.01	0.59
1:E:423:TYR:CD2	1:E:424:THR:HG23	2.38	0.59
1:E:507:SER:C	1:E:509:LYS:H	2.11	0.59
1:G:83:LEU:HD21	1:G:86:LEU:HD11	1.84	0.59
1:G:222:PHE:CZ	1:G:225:ASN:HB2	2.38	0.59
1:G:345:GLY:O	1:G:347:PRO:HD3	2.02	0.59
1:H:105:ARG:O	1:H:107:TYR:N	2.36	0.59
1:H:119:GLU:CB	1:H:121:PRO:CD	2.81	0.59
1:A:243:ILE:N	1:A:245:VAL:HG23	2.17	0.59
1:A:271:GLY:HA2	1:A:275:ARG:HH21	1.68	0.59
1:A:478:GLN:CG	1:A:479:LEU:N	2.66	0.59
1:B:145:ASP:OD1	1:B:167:LEU:HD13	2.02	0.59
1:B:500:GLN:O	1:B:505:ILE:HG21	2.03	0.59
1:D:521:VAL:HG13	1:D:643:VAL:HG12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:83:LEU:HD21	1:E:86:LEU:HD11	1.85	0.59
1:E:89:ASN:C	1:E:91:LEU:H	2.11	0.59
1:E:105:ARG:HG3	1:E:105:ARG:HH11	1.68	0.59
1:E:182:PHE:CE1	1:E:194:LEU:HD22	2.38	0.59
1:F:50:LEU:H	1:F:55:ARG:HD3	1.68	0.59
1:G:333:LEU:HD11	1:G:353:LEU:HD13	1.84	0.59
1:A:26:PHE:CE2	1:A:181:GLU:CD	2.81	0.58
1:A:117:LEU:O	1:A:119:GLU:HG2	2.03	0.58
1:A:319:SER:O	1:A:321:ARG:N	2.34	0.58
1:A:660:ILE:HG23	1:A:661:ALA:N	2.18	0.58
1:B:333:LEU:HD11	1:B:353:LEU:HD13	1.84	0.58
1:B:394:LYS:HD3	1:B:401:ILE:HA	1.84	0.58
1:C:345:GLY:O	1:C:347:PRO:HD3	2.03	0.58
1:C:426:LEU:HB2	1:C:574:LEU:HD21	1.83	0.58
1:D:271:GLY:HA2	1:D:275:ARG:HH21	1.67	0.58
1:E:146:LEU:HA	1:E:150:ASN:HD21	1.67	0.58
1:E:233:GLY:C	1:E:235:VAL:H	2.12	0.58
1:E:373:ASP:CG	1:E:374:CYS:SG	2.85	0.58
1:E:655:TRP:CZ3	1:F:654:LEU:CD1	2.85	0.58
1:F:409:SER:HB3	1:F:412:ILE:HD12	1.85	0.58
1:F:521:VAL:CG1	1:F:643:VAL:HG12	2.31	0.58
1:G:246:TYR:CD1	1:G:258:VAL:CB	2.70	0.58
1:H:105:ARG:HG2	1:H:109:ASN:HD21	1.67	0.58
1:H:243:ILE:N	1:H:245:VAL:HG23	2.18	0.58
1:A:120:GLY:HA2	1:A:123:ARG:HB2	1.85	0.58
1:B:233:GLY:C	1:B:235:VAL:H	2.12	0.58
1:C:83:LEU:HD21	1:C:86:LEU:HD11	1.84	0.58
1:D:131:SER:O	1:D:134:ARG:HB3	2.03	0.58
1:E:352:GLU:O	1:E:388:PHE:HA	2.02	0.58
1:E:571:TYR:CE2	1:E:590:MET:HG3	2.38	0.58
1:F:43:ILE:HA	1:F:94:LEU:O	2.03	0.58
1:G:243:ILE:N	1:G:245:VAL:HG23	2.18	0.58
1:B:610:ASP:O	1:B:613:SER:HB3	2.03	0.58
1:H:120:GLY:O	1:H:123:ARG:N	2.36	0.58
1:H:212:ALA:O	1:H:213:PHE:C	2.45	0.58
1:B:83:LEU:HD21	1:B:86:LEU:HD11	1.85	0.58
1:B:521:VAL:HG13	1:B:643:VAL:HG11	1.83	0.58
1:C:89:ASN:C	1:C:91:LEU:H	2.11	0.58
1:C:222:PHE:CZ	1:C:225:ASN:HB2	2.39	0.58
1:C:277:LEU:C	1:C:279:CYS:H	2.11	0.58
1:C:352:GLU:O	1:C:388:PHE:HA	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:260:PRO:CG	1:E:274:GLU:HG2	2.33	0.58
1:F:263:ASN:ND2	1:F:265:LEU:H	2.01	0.58
1:G:531:GLN:O	1:G:535:ASP:N	2.36	0.58
1:A:504:GLY:N	1:B:662:CYS:SG	2.77	0.58
1:B:517:MET:HE3	1:B:646:ARG:HD3	1.86	0.58
1:C:423:TYR:CD2	1:C:424:THR:HG23	2.38	0.58
1:D:222:PHE:CZ	1:D:225:ASN:HB2	2.37	0.58
1:D:316:ASN:O	1:D:317:MET:CB	2.51	0.58
1:E:119:GLU:HB2	1:E:121:PRO:CD	2.34	0.58
1:E:419:ARG:N	1:E:420:PRO:HD3	2.04	0.58
1:F:480:LYS:CE	1:F:527:GLU:HB2	2.33	0.58
1:G:43:ILE:HA	1:G:94:LEU:O	2.02	0.58
1:H:246:TYR:CD1	1:H:258:VAL:CB	2.70	0.58
1:A:50:LEU:H	1:A:55:ARG:HD3	1.68	0.58
1:A:222:PHE:CD2	1:A:255:PHE:CD2	2.92	0.58
1:B:43:ILE:HA	1:B:94:LEU:O	2.03	0.58
1:B:183:VAL:HG12	1:B:184:GLY:N	2.19	0.58
1:B:387:ILE:HG21	1:B:450:GLY:CA	2.31	0.58
1:B:480:LYS:NZ	1:B:527:GLU:HB2	2.19	0.58
1:B:531:GLN:O	1:B:535:ASP:N	2.36	0.58
1:C:350:GLU:HA	1:C:391:ASP:OD2	2.03	0.58
1:D:387:ILE:CD1	1:D:449:GLN:HG3	2.32	0.58
1:E:131:SER:O	1:E:134:ARG:HB3	2.03	0.58
1:E:357:SER:HA	1:E:453:THR:HB	1.85	0.58
1:E:368:THR:HA	1:E:371:VAL:CG2	2.31	0.58
1:F:220:ARG:NH1	1:F:223:LEU:CD2	2.65	0.58
1:A:120:GLY:HA2	1:A:123:ARG:H	1.68	0.58
1:D:120:GLY:HA2	1:D:123:ARG:HB2	1.85	0.58
1:D:437:ILE:HG13	1:D:594:LEU:HD12	1.85	0.58
1:E:72:ASN:H	1:E:163:LYS:HE2	1.67	0.58
1:E:243:ILE:N	1:E:245:VAL:HG23	2.19	0.58
1:E:394:LYS:CG	1:E:613:SER:HB2	2.32	0.58
1:E:500:GLN:HB3	1:E:505:ILE:CG1	2.33	0.58
1:G:315:MET:HB3	1:G:387:ILE:HA	1.85	0.58
1:H:89:ASN:C	1:H:91:LEU:H	2.12	0.58
1:H:350:GLU:HA	1:H:391:ASP:OD2	2.03	0.58
1:B:89:ASN:C	1:B:91:LEU:H	2.12	0.58
1:B:434:TRP:CZ3	1:B:568:ARG:HG3	2.39	0.58
1:C:116:GLY:N	1:C:217:THR:O	2.36	0.58
1:C:496:LYS:C	1:D:655:TRP:HZ2	2.11	0.58
1:C:570:LEU:HD23	1:C:590:MET:HG2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:587:SER:OG	1:C:588:ASN:N	2.31	0.58
1:E:263:ASN:ND2	1:E:265:LEU:N	2.51	0.58
1:E:654:LEU:HD21	1:F:654:LEU:HD23	1.86	0.58
1:E:659:LYS:HG2	1:F:500:GLN:HE22	1.68	0.58
1:F:249:LEU:HD23	1:F:252:ALA:CA	2.24	0.58
1:G:118:LYS:CG	1:G:265:LEU:HA	2.33	0.58
1:G:247:ASP:HB2	1:G:255:PHE:O	2.04	0.58
1:G:265:LEU:HD23	1:G:269:LEU:HB3	1.85	0.58
1:G:441:LYS:HB2	1:G:560:LEU:CD2	2.34	0.58
1:H:222:PHE:CZ	1:H:225:ASN:HB2	2.38	0.58
1:H:285:GLN:NE2	1:H:286:ARG:HH12	2.02	0.58
1:A:260:PRO:CB	1:A:273:LEU:HD13	2.33	0.58
1:B:191:PRO:HG3	1:B:234:LYS:NZ	2.19	0.58
1:B:570:LEU:HB3	1:B:590:MET:CE	2.34	0.58
1:B:656:ASN:C	1:B:656:ASN:OD1	2.46	0.58
1:D:276:TRP:CE3	1:D:277:LEU:HD23	2.39	0.58
1:E:220:ARG:HH12	1:E:223:LEU:CD2	2.17	0.58
1:E:249:LEU:O	1:E:250:THR:HG23	2.04	0.58
1:F:434:TRP:HZ3	1:F:568:ARG:CG	2.17	0.58
1:G:182:PHE:CE1	1:G:194:LEU:HD22	2.39	0.58
1:G:373:ASP:C	1:G:374:CYS:SG	2.87	0.58
1:H:281:LEU:O	1:H:282:MET:HE3	2.04	0.58
1:H:387:ILE:HD12	1:H:450:GLY:HA2	1.84	0.58
1:H:582:ARG:H	1:H:582:ARG:CD	2.17	0.58
1:A:580:ASP:HB3	1:D:579:ARG:HH22	1.69	0.58
1:B:373:ASP:C	1:B:374:CYS:SG	2.87	0.58
1:C:146:LEU:HA	1:C:150:ASN:HD21	1.69	0.58
1:C:387:ILE:HD12	1:C:450:GLY:HA2	1.84	0.58
1:C:507:SER:C	1:C:509:LYS:H	2.12	0.58
1:C:531:GLN:O	1:C:535:ASP:N	2.36	0.58
1:E:409:SER:HB3	1:E:412:ILE:HD12	1.85	0.58
1:F:276:TRP:CE3	1:F:277:LEU:HD23	2.38	0.58
1:F:433:ILE:CG2	1:F:571:TYR:OH	2.52	0.58
1:F:499:GLU:C	1:F:500:GLN:HE21	2.12	0.58
1:G:220:ARG:NH1	1:G:223:LEU:CD2	2.67	0.58
1:A:263:ASN:ND2	1:A:265:LEU:N	2.52	0.57
1:A:480:LYS:NZ	1:A:527:GLU:HB2	2.19	0.57
1:B:222:PHE:CZ	1:B:225:ASN:HB2	2.38	0.57
1:B:434:TRP:HZ3	1:B:568:ARG:CG	2.17	0.57
1:B:478:GLN:CG	1:B:479:LEU:N	2.66	0.57
1:C:220:ARG:HH12	1:C:223:LEU:CD2	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:409:SER:HB3	1:C:412:ILE:HD12	1.84	0.57
1:C:478:GLN:CG	1:C:479:LEU:N	2.67	0.57
1:D:476:CYS:HB2	1:D:636:MET:SD	2.43	0.57
1:E:527:GLU:HG2	1:E:530:VAL:HG13	1.86	0.57
1:F:222:PHE:CD2	1:F:255:PHE:CD2	2.91	0.57
1:G:119:GLU:CB	1:G:121:PRO:CD	2.82	0.57
1:H:146:LEU:HA	1:H:150:ASN:HD21	1.68	0.57
1:H:437:ILE:CG2	1:H:564:GLU:HB2	2.34	0.57
1:H:472:MET:HG3	1:H:472:MET:O	2.04	0.57
1:A:437:ILE:HG13	1:A:594:LEU:HD12	1.86	0.57
1:B:277:LEU:C	1:B:279:CYS:H	2.12	0.57
1:B:660:ILE:HG23	1:B:661:ALA:N	2.18	0.57
1:C:116:GLY:HA2	1:C:217:THR:O	2.04	0.57
1:C:118:LYS:HD3	1:C:265:LEU:HD12	1.85	0.57
1:D:213:PHE:O	1:D:216:ILE:N	2.37	0.57
1:D:233:GLY:C	1:D:235:VAL:H	2.11	0.57
1:D:434:TRP:HZ3	1:D:568:ARG:CG	2.16	0.57
1:E:426:LEU:HB2	1:E:574:LEU:HD21	1.85	0.57
1:F:89:ASN:C	1:F:91:LEU:H	2.11	0.57
1:F:317:MET:HE3	1:F:609:TYR:CE2	2.39	0.57
1:G:120:GLY:HA2	1:G:123:ARG:H	1.69	0.57
1:G:171:LYS:HD2	1:G:177:GLU:HG2	1.85	0.57
1:G:249:LEU:O	1:G:250:THR:HG23	2.05	0.57
1:H:265:LEU:HD23	1:H:269:LEU:HB3	1.85	0.57
1:H:447:LEU:HD12	1:H:605:VAL:HG22	1.85	0.57
1:A:499:GLU:C	1:A:500:GLN:HE21	2.12	0.57
1:B:115:CYS:CB	1:B:435:GLN:HG3	2.33	0.57
1:B:587:SER:OG	1:B:588:ASN:N	2.35	0.57
1:B:644:VAL:HG12	1:B:644:VAL:O	2.03	0.57
1:C:492:ILE:CD1	1:D:651:GLN:HE21	2.10	0.57
1:C:661:ALA:O	1:D:661:ALA:O	2.21	0.57
1:D:105:ARG:HH11	1:D:105:ARG:HG3	1.69	0.57
1:D:285:GLN:NE2	1:D:286:ARG:HH12	2.01	0.57
1:E:107:TYR:HD1	1:E:153:LEU:HD12	1.69	0.57
1:E:183:VAL:HG12	1:E:184:GLY:N	2.19	0.57
1:E:484:ASP:C	1:E:486:PHE:N	2.58	0.57
1:E:666:ARG:HH11	1:F:502:GLU:HG3	1.68	0.57
1:F:118:LYS:HD3	1:F:265:LEU:HD12	1.85	0.57
1:F:637:ARG:O	1:F:641:LYS:N	2.31	0.57
1:G:143:HIS:CD2	1:G:145:ASP:O	2.54	0.57
1:H:315:MET:HB3	1:H:387:ILE:HA	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:LYS:HZ2	1:A:33:ILE:HD12	1.69	0.57
1:A:30:LEU:HD13	1:A:32:TRP:NE1	2.19	0.57
1:A:105:ARG:HG2	1:A:109:ASN:HD21	1.67	0.57
1:A:316:ASN:O	1:A:317:MET:CB	2.51	0.57
1:A:466:SER:HB3	1:A:537:MET:HE1	1.85	0.57
1:A:651:GLN:NE2	1:B:492:ILE:CG2	2.67	0.57
1:B:315:MET:HB3	1:B:387:ILE:HA	1.85	0.57
1:B:478:GLN:HE21	1:B:479:LEU:HD23	1.69	0.57
1:C:105:ARG:HH11	1:C:105:ARG:HG3	1.68	0.57
1:C:198:LYS:C	1:C:200:THR:H	2.12	0.57
1:C:276:TRP:CE3	1:C:277:LEU:HD23	2.39	0.57
1:C:655:TRP:NE1	1:D:496:LYS:CB	2.45	0.57
1:C:666:ARG:HD2	1:D:503:PHE:CD1	2.39	0.57
1:D:115:CYS:SG	1:D:432:GLN:HA	2.45	0.57
1:D:120:GLY:HA2	1:D:123:ARG:H	1.70	0.57
1:D:423:TYR:CD2	1:D:424:THR:HG23	2.38	0.57
1:E:492:ILE:HG23	1:F:651:GLN:NE2	2.17	0.57
1:F:83:LEU:HD21	1:F:86:LEU:HD11	1.85	0.57
1:F:134:ARG:HD2	1:F:300:PHE:CE1	2.39	0.57
1:G:30:LEU:HD13	1:G:32:TRP:NE1	2.20	0.57
1:H:83:LEU:HD21	1:H:86:LEU:HD11	1.85	0.57
1:H:120:GLY:HA2	1:H:123:ARG:H	1.68	0.57
1:H:274:GLU:O	1:H:278:GLN:HB2	2.05	0.57
1:A:315:MET:HB3	1:A:387:ILE:HA	1.86	0.57
1:C:224:PRO:HG2	1:C:255:PHE:HE2	1.67	0.57
1:D:171:LYS:HD2	1:D:177:GLU:HG2	1.87	0.57
1:D:438:ARG:HG2	1:D:564:GLU:OE1	2.05	0.57
1:D:466:SER:HB3	1:D:537:MET:HE1	1.85	0.57
1:E:229:VAL:HG13	1:H:229:VAL:CG1	2.29	0.57
1:E:316:ASN:O	1:E:317:MET:HB2	2.04	0.57
1:E:320:GLY:O	1:E:321:ARG:C	2.47	0.57
1:E:348:GLU:H	1:E:348:GLU:CD	2.11	0.57
1:A:115:CYS:HB2	1:A:435:GLN:HG3	1.85	0.57
1:A:119:GLU:CB	1:A:121:PRO:CD	2.81	0.57
1:A:563:LEU:HD23	1:A:597:ALA:HB2	1.85	0.57
1:B:105:ARG:HH11	1:B:105:ARG:HG3	1.69	0.57
1:C:120:GLY:HA2	1:C:123:ARG:H	1.69	0.57
1:C:472:MET:O	1:C:472:MET:HG3	2.04	0.57
1:H:107:TYR:HA	1:H:110:GLN:HB2	1.86	0.57
1:A:89:ASN:C	1:A:91:LEU:H	2.12	0.57
1:A:119:GLU:HB2	1:A:121:PRO:CD	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:480:LYS:CE	1:B:527:GLU:HB2	2.35	0.57
1:B:507:SER:C	1:B:509:LYS:H	2.13	0.57
1:C:120:GLY:HA2	1:C:123:ARG:HB2	1.85	0.57
1:C:233:GLY:C	1:C:235:VAL:H	2.12	0.57
1:E:115:CYS:O	1:E:263:ASN:HA	2.05	0.57
1:E:473:THR:CG2	1:E:533:LEU:HD21	2.33	0.57
1:F:434:TRP:HZ3	1:F:568:ARG:CA	2.16	0.57
1:F:478:GLN:CG	1:F:479:LEU:N	2.67	0.57
1:G:117:LEU:O	1:G:119:GLU:HG2	2.04	0.57
1:A:277:LEU:C	1:A:279:CYS:H	2.13	0.57
1:C:319:SER:O	1:C:321:ARG:N	2.34	0.57
1:C:338:SER:OG	1:E:284:HIS:HE1	1.88	0.57
1:D:536:LYS:O	1:D:625:LEU:CD1	2.45	0.57
1:D:570:LEU:HD23	1:D:590:MET:CG	2.32	0.57
1:E:189:LEU:CG	1:E:190:ALA:N	2.64	0.57
1:E:262:PRO:HB3	1:E:409:SER:HG	1.69	0.57
1:E:434:TRP:HZ3	1:E:568:ARG:HG3	1.68	0.57
1:E:570:LEU:CD2	1:E:590:MET:HE2	2.35	0.57
1:F:350:GLU:HA	1:F:391:ASP:OD2	2.04	0.57
1:G:285:GLN:NE2	1:G:286:ARG:HH12	2.02	0.57
1:G:320:GLY:O	1:G:321:ARG:C	2.47	0.57
1:A:348:GLU:CD	1:A:348:GLU:H	2.13	0.57
1:B:319:SER:O	1:B:321:ARG:N	2.34	0.57
1:B:387:ILE:CD1	1:B:450:GLY:N	2.68	0.57
1:B:438:ARG:HG2	1:B:564:GLU:OE1	2.05	0.57
1:C:271:GLY:HA2	1:C:275:ARG:HH21	1.70	0.57
1:D:387:ILE:HD12	1:D:450:GLY:CA	2.35	0.57
1:D:478:GLN:CG	1:D:479:LEU:N	2.68	0.57
1:E:274:GLU:O	1:E:278:GLN:HB2	2.05	0.57
1:E:499:GLU:C	1:E:500:GLN:HE21	2.13	0.57
1:G:50:LEU:H	1:G:55:ARG:HD3	1.70	0.57
1:H:50:LEU:H	1:H:55:ARG:HD3	1.69	0.57
1:H:171:LYS:HD2	1:H:177:GLU:HG2	1.86	0.57
1:A:103:ASP:HB3	1:A:106:LYS:HG3	1.87	0.57
1:A:231:TRP:HE3	1:D:236:ARG:NH2	1.98	0.57
1:A:265:LEU:HD23	1:A:269:LEU:HB3	1.86	0.57
1:B:118:LYS:HG2	1:B:265:LEU:HA	1.87	0.57
1:B:285:GLN:NE2	1:B:286:ARG:HH12	2.03	0.57
1:B:490:ILE:HG23	1:B:490:ILE:O	2.04	0.57
1:B:540:LEU:CD2	1:B:621:LYS:HZ1	2.18	0.57
1:D:386:LEU:H	1:D:386:LEU:CD1	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:120:GLY:HA2	1:E:123:ARG:HB2	1.87	0.57
1:E:333:LEU:HD11	1:E:353:LEU:HD13	1.86	0.57
1:F:243:ILE:N	1:F:245:VAL:HG23	2.19	0.57
1:F:249:LEU:O	1:F:250:THR:HG23	2.05	0.57
1:F:517:MET:SD	1:F:650:ARG:HG3	2.45	0.57
1:G:108:LEU:HD21	1:G:215:CYS:SG	2.45	0.57
1:G:130:SER:O	1:G:300:PHE:HE1	1.88	0.57
1:H:131:SER:O	1:H:134:ARG:HB3	2.05	0.57
1:H:333:LEU:HD11	1:H:353:LEU:HD13	1.87	0.57
1:A:213:PHE:C	1:A:213:PHE:CD2	2.83	0.56
1:A:247:ASP:HB2	1:A:255:PHE:O	2.06	0.56
1:A:570:LEU:HD23	1:A:590:MET:CG	2.34	0.56
1:C:415:GLN:NE2	1:C:429:VAL:HG11	2.20	0.56
1:D:533:LEU:CD2	1:D:629:VAL:HG13	2.35	0.56
1:E:655:TRP:NE1	1:F:496:LYS:CB	2.37	0.56
1:F:434:TRP:CZ3	1:F:568:ARG:HG3	2.39	0.56
1:F:656:ASN:C	1:F:656:ASN:OD1	2.48	0.56
1:H:107:TYR:HD1	1:H:153:LEU:HD12	1.70	0.56
1:H:632:VAL:C	1:H:633:MET:SD	2.88	0.56
1:A:189:LEU:CG	1:A:190:ALA:N	2.64	0.56
1:A:249:LEU:HA	1:A:253:VAL:O	2.05	0.56
1:B:368:THR:HA	1:B:371:VAL:CG2	2.32	0.56
1:C:103:ASP:HB3	1:C:106:LYS:HG3	1.87	0.56
1:C:107:TYR:O	1:C:110:GLN:CB	2.53	0.56
1:C:111:PHE:HZ	1:C:572:ARG:CG	2.08	0.56
1:C:117:LEU:O	1:C:119:GLU:HG2	2.04	0.56
1:C:497:TYR:O	1:C:497:TYR:HD2	1.83	0.56
1:C:536:LYS:HB3	1:C:625:LEU:CD1	2.14	0.56
1:D:249:LEU:HD23	1:D:252:ALA:CA	2.24	0.56
1:E:281:LEU:O	1:E:282:MET:HE3	2.05	0.56
1:E:587:SER:OG	1:E:588:ASN:N	2.34	0.56
1:F:125:LEU:HD21	1:F:215:CYS:SG	2.45	0.56
1:F:182:PHE:CE1	1:F:194:LEU:HD22	2.40	0.56
1:F:213:PHE:O	1:F:216:ILE:N	2.38	0.56
1:F:490:ILE:O	1:F:490:ILE:HG23	2.05	0.56
1:G:249:LEU:HA	1:G:253:VAL:O	2.05	0.56
1:G:423:TYR:CD2	1:G:424:THR:HG23	2.40	0.56
1:A:373:ASP:CG	1:A:374:CYS:SG	2.88	0.56
1:A:540:LEU:HD11	1:A:622:ALA:HB2	1.86	0.56
1:B:224:PRO:HG2	1:B:255:PHE:HE2	1.69	0.56
1:C:105:ARG:HG2	1:C:109:ASN:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:107:TYR:HD1	1:C:153:LEU:HD12	1.70	0.56
1:C:183:VAL:HG12	1:C:184:GLY:N	2.20	0.56
1:C:222:PHE:CD2	1:C:224:PRO:O	2.59	0.56
1:C:243:ILE:N	1:C:245:VAL:HG23	2.20	0.56
1:D:30:LEU:HD13	1:D:32:TRP:NE1	2.21	0.56
1:D:105:ARG:HG2	1:D:109:ASN:HD21	1.69	0.56
1:D:198:LYS:HG2	1:D:284:HIS:HA	1.87	0.56
1:D:315:MET:HB3	1:D:387:ILE:HA	1.86	0.56
1:D:507:SER:C	1:D:509:LYS:H	2.14	0.56
1:E:260:PRO:CB	1:E:273:LEU:HD13	2.35	0.56
1:E:478:GLN:HE21	1:E:479:LEU:HD23	1.70	0.56
1:E:490:ILE:HG23	1:E:490:ILE:O	2.03	0.56
1:E:531:GLN:O	1:E:535:ASP:N	2.35	0.56
1:F:30:LEU:HD13	1:F:32:TRP:NE1	2.20	0.56
1:F:233:GLY:C	1:F:235:VAL:H	2.13	0.56
1:F:247:ASP:HB2	1:F:255:PHE:O	2.05	0.56
1:F:319:SER:O	1:F:321:ARG:N	2.35	0.56
1:F:422:THR:HB	1:F:585:GLY:HA3	1.84	0.56
1:F:472:MET:SD	1:F:633:MET:HB2	2.45	0.56
1:F:536:LYS:O	1:F:625:LEU:HD13	2.05	0.56
1:G:274:GLU:O	1:G:278:GLN:HB2	2.05	0.56
1:H:249:LEU:HD23	1:H:252:ALA:CA	2.27	0.56
1:H:587:SER:OG	1:H:588:ASN:N	2.35	0.56
1:B:18:LYS:HZ2	1:B:33:ILE:HD12	1.70	0.56
1:B:171:LYS:HD2	1:B:177:GLU:HG2	1.88	0.56
1:B:262:PRO:CB	1:B:409:SER:OG	2.45	0.56
1:B:451:GLN:NE2	1:B:608:ILE:O	2.38	0.56
1:B:472:MET:HG3	1:B:472:MET:O	2.05	0.56
1:C:222:PHE:CD2	1:C:255:PHE:CD2	2.93	0.56
1:C:430:TRP:CE3	1:C:574:LEU:HD22	2.40	0.56
1:C:433:ILE:CB	1:C:571:TYR:OH	2.53	0.56
1:C:582:ARG:H	1:C:582:ARG:CD	2.19	0.56
1:D:89:ASN:C	1:D:91:LEU:H	2.13	0.56
1:D:222:PHE:CD2	1:D:255:PHE:CD2	2.93	0.56
1:D:262:PRO:HB3	1:D:409:SER:HG	1.65	0.56
1:E:171:LYS:HD2	1:E:177:GLU:HG2	1.88	0.56
1:F:389:LEU:HD11	1:F:454:SER:OG	2.05	0.56
1:F:507:SER:C	1:F:509:LYS:H	2.13	0.56
1:G:89:ASN:C	1:G:91:LEU:H	2.12	0.56
1:G:224:PRO:HG2	1:G:255:PHE:HE2	1.68	0.56
1:A:249:LEU:HD23	1:A:252:ALA:CA	2.27	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:LEU:O	1:A:250:THR:HG23	2.05	0.56
1:A:438:ARG:HG2	1:A:564:GLU:HG3	1.86	0.56
1:B:107:TYR:HA	1:B:110:GLN:HB2	1.87	0.56
1:B:281:LEU:O	1:B:282:MET:HE3	2.04	0.56
1:C:107:TYR:HA	1:C:110:GLN:HB2	1.87	0.56
1:C:485:PHE:CE2	1:D:485:PHE:HB2	2.37	0.56
1:C:496:LYS:HB2	1:D:655:TRP:HE1	0.43	0.56
1:D:540:LEU:CD1	1:D:622:ALA:HB2	2.36	0.56
1:E:107:TYR:HA	1:E:110:GLN:HB2	1.88	0.56
1:F:348:GLU:CD	1:F:348:GLU:H	2.12	0.56
1:F:475:GLU:CG	1:F:636:MET:HE1	2.35	0.56
1:F:480:LYS:HZ1	1:F:527:GLU:HB2	1.70	0.56
1:H:531:GLN:O	1:H:535:ASP:N	2.35	0.56
1:A:26:PHE:HE2	1:A:181:GLU:CD	2.13	0.56
1:A:28:TYR:HD2	1:A:45:GLN:HE21	1.54	0.56
1:A:183:VAL:HG12	1:A:184:GLY:N	2.20	0.56
1:B:521:VAL:CG1	1:B:643:VAL:CG1	2.78	0.56
1:C:265:LEU:HD21	1:C:269:LEU:HB3	1.87	0.56
1:D:357:SER:HB3	1:D:453:THR:HB	1.86	0.56
1:E:30:LEU:HD13	1:E:32:TRP:NE1	2.20	0.56
1:E:62:ILE:HG23	1:E:94:LEU:HD13	1.87	0.56
1:E:521:VAL:HA	1:E:524:CYS:HG	1.67	0.56
1:F:119:GLU:HB2	1:F:121:PRO:CD	2.36	0.56
1:G:472:MET:CG	1:G:633:MET:HB2	2.35	0.56
1:G:473:THR:HG21	1:G:629:VAL:HG13	1.87	0.56
1:H:348:GLU:H	1:H:348:GLU:CD	2.13	0.56
1:A:171:LYS:HD2	1:A:177:GLU:HG2	1.86	0.56
1:A:320:GLY:O	1:A:321:ARG:C	2.48	0.56
1:B:119:GLU:HB2	1:B:121:PRO:CD	2.35	0.56
1:C:540:LEU:HD12	1:C:622:ALA:HB2	1.87	0.56
1:D:368:THR:HA	1:D:371:VAL:CG2	2.32	0.56
1:F:213:PHE:C	1:F:213:PHE:CD2	2.84	0.56
1:G:105:ARG:HH11	1:G:105:ARG:HG3	1.70	0.56
1:G:190:ALA:HB3	1:G:203:VAL:HG22	1.88	0.56
1:G:263:ASN:ND2	1:G:265:LEU:N	2.53	0.56
1:H:224:PRO:HG2	1:H:255:PHE:HE2	1.70	0.56
1:H:387:ILE:HD12	1:H:450:GLY:N	2.21	0.56
1:A:120:GLY:C	1:A:122:ILE:N	2.63	0.56
1:B:222:PHE:CD2	1:B:224:PRO:O	2.59	0.56
1:B:249:LEU:HD23	1:B:252:ALA:CA	2.28	0.56
1:B:348:GLU:H	1:B:348:GLU:CD	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:626:SER:OG	1:B:627:PRO:HD3	2.05	0.56
1:C:107:TYR:C	1:C:110:GLN:H	2.12	0.56
1:C:263:ASN:HD21	1:C:265:LEU:N	2.02	0.56
1:C:263:ASN:HD21	1:C:265:LEU:H	1.53	0.56
1:C:320:GLY:O	1:C:321:ARG:C	2.48	0.56
1:C:430:TRP:HB3	1:C:571:TYR:CD2	2.33	0.56
1:C:547:LEU:HD13	1:C:615:THR:HG23	1.82	0.56
1:D:120:GLY:C	1:D:122:ILE:N	2.63	0.56
1:D:503:PHE:O	1:D:505:ILE:HG13	2.06	0.56
1:E:276:TRP:CE3	1:E:277:LEU:HD23	2.40	0.56
1:F:144:ARG:HD2	1:F:171:LYS:CB	2.36	0.56
1:F:171:LYS:HD2	1:F:177:GLU:HG2	1.86	0.56
1:F:373:ASP:CG	1:F:374:CYS:SG	2.89	0.56
1:G:430:TRP:HB3	1:G:571:TYR:HD2	1.71	0.56
1:H:145:ASP:CG	1:H:167:LEU:HD13	2.31	0.56
1:B:362:ASN:O	1:B:364:ALA:N	2.39	0.56
1:B:429:VAL:HG12	1:B:430:TRP:HD1	1.70	0.56
1:C:626:SER:OG	1:C:627:PRO:HD3	2.06	0.56
1:D:274:GLU:O	1:D:278:GLN:HB2	2.06	0.56
1:D:626:SER:OG	1:D:627:PRO:HD3	2.06	0.56
1:E:315:MET:HB3	1:E:387:ILE:HA	1.88	0.56
1:F:107:TYR:HD1	1:F:153:LEU:HD12	1.70	0.56
1:F:107:TYR:C	1:F:110:GLN:H	2.13	0.56
1:F:131:SER:O	1:F:134:ARG:HB3	2.05	0.56
1:F:274:GLU:O	1:F:278:GLN:HB2	2.06	0.56
1:F:316:ASN:O	1:F:317:MET:HB2	2.06	0.56
1:G:18:LYS:HZ2	1:G:33:ILE:HG21	1.70	0.56
1:H:104:LEU:HB3	1:H:148:PRO:O	2.05	0.56
1:H:117:LEU:O	1:H:119:GLU:HG2	2.05	0.56
1:A:433:ILE:CB	1:A:571:TYR:OH	2.53	0.56
1:A:437:ILE:HG22	1:A:564:GLU:HB2	1.88	0.56
1:B:62:ILE:HG23	1:B:94:LEU:HD13	1.88	0.56
1:C:171:LYS:HD2	1:C:177:GLU:HG2	1.87	0.56
1:C:274:GLU:O	1:C:278:GLN:HB2	2.06	0.56
1:C:315:MET:HB3	1:C:387:ILE:HA	1.88	0.56
1:C:350:GLU:OE2	1:C:391:ASP:O	2.23	0.56
1:D:134:ARG:HB2	1:D:300:PHE:HE1	1.69	0.56
1:D:222:PHE:CD2	1:D:224:PRO:O	2.59	0.56
1:D:480:LYS:HE3	1:D:527:GLU:HB2	1.88	0.56
1:E:655:TRP:CD1	1:F:496:LYS:HB2	2.37	0.56
1:E:665:VAL:HG22	1:F:665:VAL:HG21	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:429:VAL:HG12	1:F:430:TRP:HD1	1.69	0.56
1:G:222:PHE:CD2	1:G:255:PHE:CD2	2.94	0.56
1:G:319:SER:O	1:G:321:ARG:N	2.35	0.56
1:G:359:LEU:CA	1:G:460:ARG:HH12	2.11	0.56
1:H:433:ILE:HG21	1:H:571:TYR:OH	2.05	0.56
1:A:116:GLY:N	1:A:217:THR:O	2.39	0.55
1:A:131:SER:O	1:A:134:ARG:HB3	2.06	0.55
1:A:429:VAL:HG12	1:A:430:TRP:HD1	1.72	0.55
1:A:547:LEU:CD1	1:A:615:THR:CG2	2.54	0.55
1:A:587:SER:OG	1:A:588:ASN:N	2.38	0.55
1:B:316:ASN:O	1:B:317:MET:HB2	2.05	0.55
1:B:660:ILE:C	1:B:662:CYS:N	2.65	0.55
1:C:485:PHE:CD2	1:D:485:PHE:CG	2.94	0.55
1:D:26:PHE:CE2	1:D:181:GLU:OE1	2.55	0.55
1:E:478:GLN:CG	1:E:479:LEU:N	2.69	0.55
1:F:517:MET:HG3	1:F:646:ARG:NH1	2.13	0.55
1:G:386:LEU:H	1:G:386:LEU:CD1	2.20	0.55
1:G:419:ARG:NH1	1:G:588:ASN:HA	2.21	0.55
1:H:220:ARG:CB	1:H:221:PRO:HD2	2.35	0.55
1:B:89:ASN:HB3	1:B:91:LEU:H	1.72	0.55
1:B:220:ARG:NH1	1:B:223:LEU:CD2	2.70	0.55
1:B:263:ASN:ND2	1:B:265:LEU:N	2.54	0.55
1:C:131:SER:O	1:C:134:ARG:HB3	2.06	0.55
1:C:262:PRO:HB3	1:C:409:SER:HG	1.69	0.55
1:C:334:GLN:HA	1:C:337:LYS:HB2	1.87	0.55
1:C:419:ARG:CA	1:C:587:SER:OG	2.51	0.55
1:D:183:VAL:HG12	1:D:184:GLY:N	2.21	0.55
1:D:220:ARG:CB	1:D:221:PRO:HD2	2.37	0.55
1:D:263:ASN:ND2	1:D:265:LEU:N	2.54	0.55
1:D:265:LEU:HD21	1:D:269:LEU:HB3	1.87	0.55
1:D:348:GLU:CD	1:D:348:GLU:H	2.14	0.55
1:E:576:GLU:OE2	1:F:573:ARG:NH2	2.40	0.55
1:F:582:ARG:H	1:F:582:ARG:CD	2.19	0.55
1:G:107:TYR:HD1	1:G:153:LEU:HD12	1.71	0.55
1:G:220:ARG:CB	1:G:221:PRO:HD2	2.37	0.55
1:H:222:PHE:CD2	1:H:224:PRO:O	2.60	0.55
1:A:116:GLY:HA2	1:A:217:THR:O	2.07	0.55
1:A:386:LEU:H	1:A:386:LEU:CD1	2.19	0.55
1:A:478:GLN:HE21	1:A:479:LEU:HD23	1.71	0.55
1:B:28:TYR:HD2	1:B:45:GLN:HE21	1.53	0.55
1:B:316:ASN:O	1:B:317:MET:CB	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:368:THR:HA	1:C:371:VAL:CG2	2.31	0.55
1:C:502:GLU:HG3	1:D:666:ARG:HH12	1.70	0.55
1:D:422:THR:HG21	1:D:586:ASP:C	2.30	0.55
1:D:517:MET:HG3	1:D:646:ARG:NH1	2.21	0.55
1:G:26:PHE:CE2	1:G:181:GLU:CD	2.84	0.55
1:G:429:VAL:HG12	1:G:430:TRP:HD1	1.69	0.55
1:G:570:LEU:HD23	1:G:590:MET:HG2	1.87	0.55
1:H:105:ARG:HG3	1:H:105:ARG:HH11	1.71	0.55
1:H:183:VAL:HG12	1:H:184:GLY:N	2.21	0.55
1:H:191:PRO:HG3	1:H:234:LYS:NZ	2.22	0.55
1:H:260:PRO:CG	1:H:274:GLU:HG2	2.36	0.55
1:H:320:GLY:O	1:H:321:ARG:C	2.49	0.55
1:A:233:GLY:C	1:A:235:VAL:H	2.14	0.55
1:A:236:ARG:NH2	1:D:231:TRP:HE3	1.98	0.55
1:B:274:GLU:O	1:B:278:GLN:HB2	2.06	0.55
1:C:249:LEU:HD23	1:C:252:ALA:CA	2.27	0.55
1:C:362:ASN:O	1:C:364:ALA:N	2.40	0.55
1:D:150:ASN:ND2	1:D:167:LEU:HD12	2.16	0.55
1:D:484:ASP:C	1:D:486:PHE:N	2.58	0.55
1:F:315:MET:HB3	1:F:387:ILE:HA	1.87	0.55
1:F:387:ILE:HG22	1:F:388:PHE:H	1.71	0.55
1:F:517:MET:HE3	1:F:647:GLN:OE1	2.05	0.55
1:H:30:LEU:HD13	1:H:32:TRP:NE1	2.22	0.55
1:A:107:TYR:C	1:A:110:GLN:H	2.14	0.55
1:A:120:GLY:N	1:A:122:ILE:H	2.05	0.55
1:C:18:LYS:HZ2	1:C:33:ILE:HD12	1.71	0.55
1:C:30:LEU:HD13	1:C:32:TRP:NE1	2.20	0.55
1:C:182:PHE:CE1	1:C:194:LEU:HD22	2.41	0.55
1:C:641:LYS:HB3	1:C:645:ARG:NH2	2.16	0.55
1:D:249:LEU:O	1:D:250:THR:HG23	2.07	0.55
1:E:187:GLN:CB	1:E:223:LEU:CD2	2.71	0.55
1:E:265:LEU:HD23	1:E:269:LEU:HB3	1.88	0.55
1:F:104:LEU:HB3	1:F:148:PRO:O	2.07	0.55
1:F:285:GLN:NE2	1:F:286:ARG:HH12	2.04	0.55
1:G:281:LEU:O	1:G:282:MET:HE3	2.06	0.55
1:G:433:ILE:HB	1:G:571:TYR:CZ	2.42	0.55
1:H:249:LEU:O	1:H:250:THR:HG23	2.06	0.55
1:H:430:TRP:CE3	1:H:574:LEU:HD22	2.42	0.55
1:A:33:ILE:HG22	1:A:34:HIS:C	2.31	0.55
1:A:134:ARG:CA	1:A:300:PHE:CZ	2.84	0.55
1:B:107:TYR:O	1:B:110:GLN:CB	2.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:ARG:HD2	1:B:171:LYS:CB	2.36	0.55
1:C:89:ASN:HB3	1:C:91:LEU:H	1.72	0.55
1:C:235:VAL:CB	1:C:243:ILE:HA	2.36	0.55
1:C:260:PRO:CG	1:C:274:GLU:HG2	2.37	0.55
1:C:478:GLN:HE21	1:C:479:LEU:HD23	1.71	0.55
1:C:656:ASN:C	1:C:656:ASN:OD1	2.48	0.55
1:D:243:ILE:N	1:D:245:VAL:HG23	2.22	0.55
1:F:472:MET:O	1:F:472:MET:HG3	2.07	0.55
1:F:478:GLN:HE21	1:F:479:LEU:HD23	1.72	0.55
1:G:107:TYR:HA	1:G:110:GLN:HB2	1.89	0.55
1:H:263:ASN:ND2	1:H:265:LEU:N	2.54	0.55
1:H:345:GLY:O	1:H:347:PRO:HD3	2.06	0.55
1:H:387:ILE:HD12	1:H:450:GLY:CA	2.37	0.55
1:A:62:ILE:HG23	1:A:94:LEU:HD13	1.89	0.55
1:A:145:ASP:CG	1:A:167:LEU:HD13	2.32	0.55
1:A:191:PRO:HG3	1:A:234:LYS:NZ	2.21	0.55
1:B:30:LEU:HD13	1:B:32:TRP:NE1	2.21	0.55
1:B:107:TYR:C	1:B:110:GLN:H	2.13	0.55
1:B:497:TYR:CE2	1:B:511:LEU:HD22	2.42	0.55
1:B:660:ILE:O	1:B:662:CYS:N	2.40	0.55
1:C:28:TYR:HD2	1:C:45:GLN:HE21	1.53	0.55
1:C:478:GLN:OE1	1:D:481:ALA:CB	2.55	0.55
1:C:490:ILE:HG23	1:C:490:ILE:O	2.07	0.55
1:C:633:MET:SD	1:C:633:MET:N	2.80	0.55
1:C:647:GLN:OE1	1:C:647:GLN:CA	2.55	0.55
1:D:157:PRO:HD2	1:D:161:ILE:HD11	1.89	0.55
1:D:443:ASP:O	1:D:446:ARG:HB2	2.05	0.55
1:D:478:GLN:HE21	1:D:479:LEU:HD23	1.72	0.55
1:D:656:ASN:C	1:D:656:ASN:OD1	2.49	0.55
1:E:89:ASN:HB3	1:E:91:LEU:H	1.72	0.55
1:E:107:TYR:O	1:E:110:GLN:CB	2.54	0.55
1:E:224:PRO:HG2	1:E:255:PHE:HE2	1.71	0.55
1:E:297:VAL:HB	1:E:301:GLN:H	1.72	0.55
1:F:222:PHE:CZ	1:F:225:ASN:HB2	2.40	0.55
1:F:644:VAL:O	1:F:644:VAL:HG12	2.07	0.55
1:H:233:GLY:C	1:H:235:VAL:H	2.14	0.55
1:H:247:ASP:HB2	1:H:255:PHE:O	2.07	0.55
1:H:449:GLN:OE1	1:H:449:GLN:HA	2.06	0.55
1:A:570:LEU:HB3	1:A:590:MET:HE3	1.87	0.55
1:B:120:GLY:N	1:B:122:ILE:H	2.05	0.55
1:B:131:SER:O	1:B:134:ARG:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:243:ILE:N	1:B:245:VAL:HG23	2.21	0.55
1:B:433:ILE:CG2	1:B:571:TYR:OH	2.55	0.55
1:E:285:GLN:NE2	1:E:286:ARG:HH12	2.05	0.55
1:E:386:LEU:H	1:E:386:LEU:CD1	2.20	0.55
1:E:626:SER:OG	1:E:627:PRO:HD3	2.07	0.55
1:F:103:ASP:HB3	1:F:106:LYS:HG3	1.89	0.55
1:F:120:GLY:C	1:F:122:ILE:N	2.65	0.55
1:G:104:LEU:HB3	1:G:148:PRO:O	2.07	0.55
1:H:28:TYR:HD2	1:H:45:GLN:HE21	1.54	0.55
1:A:100:GLU:H	1:A:154:GLN:HG3	1.72	0.55
1:A:100:GLU:N	1:A:154:GLN:HG3	2.21	0.55
1:A:220:ARG:CB	1:A:221:PRO:HD2	2.36	0.55
1:A:521:VAL:HA	1:A:524:CYS:HG	1.69	0.55
1:B:107:TYR:HD1	1:B:153:LEU:HD12	1.70	0.55
1:B:120:GLY:CA	1:B:123:ARG:H	2.19	0.55
1:B:157:PRO:HD2	1:B:161:ILE:HD11	1.88	0.55
1:C:651:GLN:NE2	1:D:492:ILE:HG21	2.20	0.55
1:D:362:ASN:O	1:D:364:ALA:N	2.40	0.55
1:D:448:LEU:HD23	1:D:608:ILE:HG12	1.88	0.55
1:E:430:TRP:CE3	1:E:574:LEU:HD22	2.42	0.55
1:F:107:TYR:HA	1:F:110:GLN:HB2	1.89	0.55
1:F:265:LEU:HD23	1:F:269:LEU:HB3	1.88	0.55
1:F:316:ASN:O	1:F:317:MET:CB	2.55	0.55
1:G:131:SER:O	1:G:134:ARG:HB3	2.07	0.55
1:G:144:ARG:HD2	1:G:171:LYS:CB	2.37	0.55
1:B:438:ARG:CG	1:B:564:GLU:HG3	2.35	0.55
1:D:265:LEU:HD23	1:D:269:LEU:HB3	1.87	0.55
1:D:281:LEU:O	1:D:282:MET:HE3	2.07	0.55
1:D:527:GLU:O	1:D:529:GLU:N	2.40	0.55
1:E:193:LEU:HD22	1:E:231:TRP:CD1	2.41	0.55
1:E:247:ASP:HB2	1:E:255:PHE:O	2.06	0.55
1:F:26:PHE:CE2	1:F:181:GLU:CD	2.85	0.55
1:F:28:TYR:HD2	1:F:45:GLN:HE21	1.54	0.55
1:F:219:PHE:O	1:F:220:ARG:HG3	1.85	0.55
1:F:373:ASP:C	1:F:374:CYS:SG	2.90	0.55
1:G:89:ASN:HB3	1:G:91:LEU:H	1.72	0.55
1:G:277:LEU:C	1:G:279:CYS:H	2.14	0.55
1:H:222:PHE:CD2	1:H:255:PHE:CD2	2.94	0.55
1:H:265:LEU:HD23	1:H:269:LEU:CB	2.37	0.55
1:H:426:LEU:HB2	1:H:574:LEU:HD21	1.88	0.55
1:H:429:VAL:HG12	1:H:430:TRP:HD1	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:281:LEU:O	1:A:282:MET:HE3	2.07	0.54
1:B:616:VAL:HG13	1:B:619:LYS:HD2	1.88	0.54
1:D:350:GLU:OE2	1:D:391:ASP:O	2.26	0.54
1:E:28:TYR:HD2	1:E:45:GLN:HE21	1.54	0.54
1:F:148:PRO:HD3	1:F:188:TYR:CZ	2.42	0.54
1:G:183:VAL:HG12	1:G:184:GLY:N	2.20	0.54
1:H:89:ASN:HB3	1:H:91:LEU:H	1.72	0.54
1:H:119:GLU:HB2	1:H:121:PRO:CD	2.36	0.54
1:H:386:LEU:H	1:H:386:LEU:CD1	2.20	0.54
1:H:564:GLU:OE2	1:H:568:ARG:NH2	2.41	0.54
1:A:235:VAL:CB	1:A:243:ILE:HA	2.37	0.54
1:B:249:LEU:O	1:B:250:THR:HG23	2.06	0.54
1:B:265:LEU:HD21	1:B:269:LEU:HB3	1.89	0.54
1:C:26:PHE:CE2	1:C:179:CYS:HB3	2.40	0.54
1:C:224:PRO:HG3	1:C:428:ARG:HH22	1.73	0.54
1:C:434:TRP:CZ3	1:C:568:ARG:CA	2.82	0.54
1:C:658:LEU:HA	1:D:658:LEU:HD12	1.90	0.54
1:C:666:ARG:CG	1:D:503:PHE:CE1	2.90	0.54
1:D:33:ILE:HG22	1:D:34:HIS:C	2.32	0.54
1:D:107:TYR:HD1	1:D:153:LEU:HD12	1.69	0.54
1:D:107:TYR:C	1:D:110:GLN:H	2.14	0.54
1:D:472:MET:HG3	1:D:472:MET:O	2.06	0.54
1:F:118:LYS:HG2	1:F:264:HIS:C	2.32	0.54
1:H:277:LEU:C	1:H:279:CYS:H	2.15	0.54
1:A:274:GLU:O	1:A:278:GLN:HB2	2.07	0.54
1:A:327:VAL:CG1	1:A:367:LEU:HB2	2.31	0.54
1:B:297:VAL:HB	1:B:301:GLN:H	1.72	0.54
1:C:157:PRO:HD2	1:C:161:ILE:HD11	1.90	0.54
1:C:660:ILE:O	1:C:662:CYS:N	2.40	0.54
1:D:220:ARG:NH1	1:D:223:LEU:CD2	2.69	0.54
1:D:514:TRP:O	1:D:518:GLU:HG3	2.06	0.54
1:D:587:SER:OG	1:D:588:ASN:N	2.36	0.54
1:E:107:TYR:C	1:E:110:GLN:H	2.14	0.54
1:E:148:PRO:HD3	1:E:188:TYR:CZ	2.42	0.54
1:E:263:ASN:HD21	1:E:265:LEU:N	2.05	0.54
1:E:449:GLN:OE1	1:E:449:GLN:HA	2.08	0.54
1:E:540:LEU:HD12	1:E:622:ALA:HB2	1.81	0.54
1:F:386:LEU:H	1:F:386:LEU:CD1	2.20	0.54
1:G:33:ILE:HG22	1:G:34:HIS:C	2.32	0.54
1:G:233:GLY:C	1:G:235:VAL:H	2.16	0.54
1:G:626:SER:OG	1:G:627:PRO:HD3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:150:ASN:OD1	1:H:150:ASN:N	2.33	0.54
1:H:157:PRO:HD2	1:H:161:ILE:HD11	1.89	0.54
1:H:626:SER:OG	1:H:627:PRO:HD3	2.07	0.54
1:A:105:ARG:HH11	1:A:105:ARG:HG3	1.71	0.54
1:B:260:PRO:CG	1:B:274:GLU:HG2	2.37	0.54
1:C:637:ARG:O	1:C:641:LYS:HB2	2.08	0.54
1:D:536:LYS:HB3	1:D:625:LEU:CD2	2.37	0.54
1:E:222:PHE:CD2	1:E:224:PRO:O	2.61	0.54
1:E:494:LEU:HD21	1:E:518:GLU:OE2	2.06	0.54
1:E:536:LYS:HB3	1:E:625:LEU:CD1	2.15	0.54
1:F:246:TYR:CD1	1:F:258:VAL:CB	2.71	0.54
1:F:521:VAL:HG13	1:F:643:VAL:CG1	2.36	0.54
1:F:616:VAL:HG13	1:F:619:LYS:HD2	1.90	0.54
1:G:362:ASN:O	1:G:364:ALA:N	2.40	0.54
1:H:144:ARG:HD2	1:H:171:LYS:CB	2.38	0.54
1:H:449:GLN:NE2	1:H:453:THR:HG22	2.22	0.54
1:A:104:LEU:HB3	1:A:148:PRO:O	2.07	0.54
1:A:510:LEU:HD12	1:A:657:LEU:HD13	1.88	0.54
1:C:144:ARG:HD2	1:C:171:LYS:CB	2.38	0.54
1:C:497:TYR:HB2	1:D:655:TRP:HH2	1.72	0.54
1:D:315:MET:HE3	1:D:447:LEU:HD23	1.88	0.54
1:E:33:ILE:HG22	1:E:34:HIS:C	2.33	0.54
1:E:144:ARG:HD2	1:E:171:LYS:CB	2.38	0.54
1:F:89:ASN:HB3	1:F:91:LEU:H	1.73	0.54
1:F:107:TYR:O	1:F:110:GLN:CB	2.55	0.54
1:F:277:LEU:C	1:F:279:CYS:H	2.16	0.54
1:F:394:LYS:HE2	1:F:401:ILE:HA	1.88	0.54
1:G:265:LEU:HD21	1:G:269:LEU:HB3	1.88	0.54
1:G:348:GLU:CD	1:G:348:GLU:H	2.14	0.54
1:H:362:ASN:O	1:H:364:ALA:N	2.41	0.54
1:B:117:LEU:O	1:B:119:GLU:HG2	2.07	0.54
1:B:501:MET:CA	1:B:505:ILE:CD1	2.85	0.54
1:B:641:LYS:HB3	1:B:645:ARG:NH2	2.13	0.54
1:C:297:VAL:HB	1:C:301:GLN:H	1.72	0.54
1:C:386:LEU:H	1:C:386:LEU:CD1	2.21	0.54
1:C:419:ARG:N	1:C:420:PRO:HD3	2.04	0.54
1:D:104:LEU:HB3	1:D:148:PRO:O	2.08	0.54
1:D:426:LEU:HB2	1:D:574:LEU:HD21	1.89	0.54
1:D:429:VAL:HG12	1:D:430:TRP:HD1	1.72	0.54
1:D:490:ILE:HG23	1:D:490:ILE:O	2.06	0.54
1:E:120:GLY:C	1:E:122:ILE:N	2.65	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:33:ILE:HG22	1:F:34:HIS:C	2.32	0.54
1:F:566:GLN:HG2	1:F:593:LEU:HD11	1.90	0.54
1:F:641:LYS:HB3	1:F:645:ARG:NH2	2.15	0.54
1:G:28:TYR:HD2	1:G:45:GLN:HE21	1.54	0.54
1:G:119:GLU:HB2	1:G:121:PRO:CD	2.38	0.54
1:H:297:VAL:HB	1:H:301:GLN:H	1.73	0.54
1:A:68:LEU:HB3	1:A:135:TYR:HE2	1.72	0.54
1:A:433:ILE:HG21	1:A:571:TYR:OH	2.08	0.54
1:A:656:ASN:C	1:A:656:ASN:OD1	2.50	0.54
1:B:521:VAL:HG21	1:B:646:ARG:HD2	1.90	0.54
1:C:33:ILE:HG22	1:C:34:HIS:C	2.32	0.54
1:C:212:ALA:O	1:C:213:PHE:C	2.51	0.54
1:C:281:LEU:O	1:C:282:MET:HE3	2.07	0.54
1:C:419:ARG:HA	1:C:587:SER:HB3	1.90	0.54
1:C:429:VAL:O	1:C:433:ILE:HG12	2.08	0.54
1:D:117:LEU:O	1:D:119:GLU:HG2	2.07	0.54
1:D:430:TRP:CB	1:D:571:TYR:CD2	2.90	0.54
1:E:387:ILE:HD11	1:E:449:GLN:CB	2.37	0.54
1:G:327:VAL:CG1	1:G:367:LEU:HB2	2.31	0.54
1:H:62:ILE:HG23	1:H:94:LEU:HD13	1.89	0.54
1:H:458:LEU:CD1	1:H:544:SER:HB2	2.37	0.54
1:H:571:TYR:CE2	1:H:590:MET:CG	2.91	0.54
1:A:260:PRO:CG	1:A:274:GLU:HG2	2.38	0.54
1:C:148:PRO:HD3	1:C:188:TYR:CZ	2.42	0.54
1:D:570:LEU:HB3	1:D:590:MET:HE3	1.89	0.54
1:D:614:LYS:O	1:D:617:VAL:HB	2.07	0.54
1:G:71:PRO:O	1:G:72:ASN:CB	2.55	0.54
1:G:444:CYS:C	1:G:446:ARG:N	2.66	0.54
1:A:472:MET:HG3	1:A:472:MET:O	2.08	0.54
1:A:626:SER:OG	1:A:627:PRO:HD3	2.07	0.54
1:B:245:VAL:HG12	1:B:246:TYR:N	2.22	0.54
1:B:582:ARG:H	1:B:582:ARG:CD	2.20	0.54
1:C:71:PRO:O	1:C:72:ASN:CB	2.56	0.54
1:D:32:TRP:CD1	1:D:43:ILE:HD13	2.43	0.54
1:D:134:ARG:CA	1:D:300:PHE:HZ	2.17	0.54
1:D:144:ARG:HD2	1:D:171:LYS:CB	2.37	0.54
1:D:588:ASN:CG	1:D:589:ASP:N	2.62	0.54
1:F:115:CYS:HB2	1:F:435:GLN:HG3	1.89	0.54
1:F:183:VAL:HG12	1:F:184:GLY:N	2.23	0.54
1:F:263:ASN:ND2	1:F:265:LEU:N	2.56	0.54
1:F:447:LEU:HD12	1:F:605:VAL:HG22	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:588:ASN:CG	1:G:589:ASP:N	2.65	0.54
1:A:434:TRP:HZ3	1:A:568:ARG:CB	2.21	0.54
1:B:118:LYS:CG	1:B:265:LEU:HA	2.38	0.54
1:B:235:VAL:CB	1:B:243:ILE:HA	2.38	0.54
1:B:449:GLN:OE1	1:B:449:GLN:HA	2.07	0.54
1:B:614:LYS:O	1:B:617:VAL:HB	2.09	0.54
1:E:118:LYS:HD3	1:E:265:LEU:HD12	1.90	0.54
1:E:263:ASN:HD21	1:E:265:LEU:H	1.54	0.54
1:E:277:LEU:C	1:E:279:CYS:H	2.15	0.54
1:E:316:ASN:O	1:E:317:MET:CB	2.55	0.54
1:E:387:ILE:HG21	1:E:450:GLY:HA2	1.89	0.54
1:E:514:TRP:O	1:E:518:GLU:HG3	2.07	0.54
1:E:616:VAL:HG13	1:E:619:LYS:HD2	1.90	0.54
1:G:213:PHE:C	1:G:213:PHE:CD2	2.86	0.54
1:G:260:PRO:CG	1:G:274:GLU:HG2	2.38	0.54
1:G:263:ASN:HD21	1:G:265:LEU:N	2.06	0.54
1:G:430:TRP:CZ3	1:G:574:LEU:HD13	2.43	0.54
1:H:249:LEU:HA	1:H:253:VAL:O	2.07	0.54
1:B:357:SER:HB3	1:B:453:THR:HA	1.90	0.53
1:B:475:GLU:O	1:B:477:GLU:N	2.41	0.53
1:C:500:GLN:CB	1:C:505:ILE:HG12	2.38	0.53
1:D:190:ALA:HB2	1:D:206:TRP:CD1	2.43	0.53
1:E:157:PRO:HD2	1:E:161:ILE:HD11	1.90	0.53
1:E:319:SER:O	1:E:321:ARG:N	2.35	0.53
1:E:350:GLU:OE2	1:E:391:ASP:O	2.26	0.53
1:G:187:GLN:HB3	1:G:223:LEU:HD22	1.81	0.53
1:H:118:LYS:CG	1:H:265:LEU:HA	2.39	0.53
1:H:235:VAL:CB	1:H:243:ILE:HA	2.35	0.53
1:A:660:ILE:O	1:A:662:CYS:N	2.40	0.53
1:B:249:LEU:HA	1:B:253:VAL:O	2.08	0.53
1:C:646:ARG:HG3	1:C:647:GLN:CD	2.30	0.53
1:D:62:ILE:HG23	1:D:94:LEU:HD13	1.89	0.53
1:D:107:TYR:O	1:D:110:GLN:CB	2.57	0.53
1:D:500:GLN:CB	1:D:505:ILE:HG12	2.38	0.53
1:E:415:GLN:NE2	1:E:429:VAL:HG11	2.23	0.53
1:E:641:LYS:HB3	1:E:645:ARG:NH2	2.13	0.53
1:F:327:VAL:CG1	1:F:367:LEU:HB2	2.32	0.53
1:F:362:ASN:O	1:F:364:ALA:N	2.41	0.53
1:F:514:TRP:O	1:F:518:GLU:HG3	2.08	0.53
1:G:438:ARG:HG2	1:G:564:GLU:CG	2.38	0.53
1:G:449:GLN:NE2	1:G:453:THR:HG22	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:472:MET:HG3	1:G:472:MET:O	2.08	0.53
1:H:120:GLY:C	1:H:122:ILE:N	2.66	0.53
1:A:144:ARG:HD2	1:A:171:LYS:CB	2.38	0.53
1:A:582:ARG:H	1:A:582:ARG:CD	2.20	0.53
1:B:359:LEU:HA	1:B:460:ARG:NH1	2.23	0.53
1:B:480:LYS:HE3	1:B:527:GLU:HB2	1.89	0.53
1:B:649:LYS:HA	1:B:652:GLN:CB	2.39	0.53
1:C:62:ILE:HG23	1:C:94:LEU:HD13	1.89	0.53
1:C:145:ASP:CG	1:C:167:LEU:HD13	2.32	0.53
1:C:616:VAL:HG13	1:C:619:LYS:HD2	1.90	0.53
1:D:415:GLN:NE2	1:D:429:VAL:HG11	2.22	0.53
1:D:616:VAL:HG13	1:D:619:LYS:HD2	1.90	0.53
1:E:222:PHE:CD2	1:E:255:PHE:CD2	2.96	0.53
1:E:486:PHE:CZ	1:E:517:MET:HE2	2.42	0.53
1:E:582:ARG:H	1:E:582:ARG:CD	2.20	0.53
1:E:656:ASN:C	1:E:656:ASN:OD1	2.50	0.53
1:E:658:LEU:CD1	1:F:658:LEU:HD12	2.33	0.53
1:F:105:ARG:HH11	1:F:105:ARG:HG3	1.74	0.53
1:F:272:LYS:HG3	1:F:276:TRP:HB2	1.90	0.53
1:G:107:TYR:C	1:G:110:GLN:H	2.15	0.53
1:G:118:LYS:HB2	1:G:265:LEU:HD12	1.90	0.53
1:G:449:GLN:OE1	1:G:449:GLN:HA	2.07	0.53
1:A:89:ASN:HB3	1:A:91:LEU:HB2	1.91	0.53
1:A:107:TYR:O	1:A:110:GLN:CB	2.57	0.53
1:A:107:TYR:HA	1:A:110:GLN:HB2	1.90	0.53
1:A:119:GLU:HB2	1:A:121:PRO:HB2	1.90	0.53
1:A:245:VAL:HG12	1:A:246:TYR:N	2.22	0.53
1:A:490:ILE:O	1:A:490:ILE:HG23	2.08	0.53
1:B:120:GLY:C	1:B:122:ILE:N	2.64	0.53
1:B:220:ARG:CB	1:B:221:PRO:HD2	2.39	0.53
1:B:222:PHE:CD2	1:B:255:PHE:CD2	2.96	0.53
1:B:319:SER:C	1:B:321:ARG:N	2.66	0.53
1:B:422:THR:HB	1:B:585:GLY:C	2.34	0.53
1:C:104:LEU:HB3	1:C:148:PRO:O	2.09	0.53
1:D:68:LEU:HB3	1:D:135:TYR:HE2	1.73	0.53
1:D:644:VAL:O	1:D:644:VAL:HG12	2.08	0.53
1:E:118:LYS:NZ	1:E:123:ARG:HH12	2.06	0.53
1:E:145:ASP:CG	1:E:167:LEU:HD13	2.33	0.53
1:E:235:VAL:CB	1:E:243:ILE:HA	2.38	0.53
1:E:564:GLU:OE2	1:E:568:ARG:NH2	2.41	0.53
1:F:646:ARG:HG3	1:F:647:GLN:CD	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:120:GLY:C	1:G:122:ILE:N	2.66	0.53
1:G:145:ASP:CG	1:G:167:LEU:HD13	2.33	0.53
1:G:198:LYS:C	1:G:200:THR:N	2.66	0.53
1:H:319:SER:O	1:H:321:ARG:N	2.35	0.53
1:H:472:MET:SD	1:H:633:MET:CB	2.96	0.53
1:A:71:PRO:O	1:A:72:ASN:CB	2.57	0.53
1:A:89:ASN:HB3	1:A:91:LEU:H	1.72	0.53
1:A:654:LEU:HD23	1:A:654:LEU:C	2.33	0.53
1:B:494:LEU:CD1	1:B:514:TRP:CB	2.85	0.53
1:C:89:ASN:HB3	1:C:91:LEU:HB2	1.90	0.53
1:D:647:GLN:OE1	1:D:647:GLN:CA	2.57	0.53
1:E:265:LEU:HD23	1:E:269:LEU:CB	2.38	0.53
1:E:429:VAL:HG12	1:E:430:TRP:HD1	1.73	0.53
1:E:517:MET:HE3	1:E:647:GLN:OE1	2.07	0.53
1:F:32:TRP:CD1	1:F:43:ILE:HD13	2.43	0.53
1:F:157:PRO:HD2	1:F:161:ILE:HD11	1.89	0.53
1:F:226:TRP:CD1	1:F:227:GLN:HB3	2.44	0.53
1:F:260:PRO:CG	1:F:274:GLU:HG2	2.38	0.53
1:F:626:SER:OG	1:F:627:PRO:HD3	2.09	0.53
1:G:590:MET:HE1	1:G:593:LEU:HD12	1.90	0.53
1:H:118:LYS:HG2	1:H:265:LEU:HA	1.89	0.53
1:H:190:ALA:HB2	1:H:206:TRP:CG	2.44	0.53
1:A:265:LEU:HD21	1:A:269:LEU:HB3	1.90	0.53
1:A:297:VAL:HB	1:A:301:GLN:H	1.74	0.53
1:B:113:ASN:HA	1:B:116:GLY:O	2.09	0.53
1:B:226:TRP:CD1	1:B:227:GLN:HB3	2.44	0.53
1:B:263:ASN:HD21	1:B:265:LEU:H	1.56	0.53
1:D:115:CYS:HB2	1:D:435:GLN:HG3	1.90	0.53
1:D:125:LEU:HD21	1:D:215:CYS:SG	2.49	0.53
1:D:644:VAL:HA	1:D:647:GLN:NE2	2.18	0.53
1:E:362:ASN:O	1:E:364:ALA:N	2.42	0.53
1:E:511:LEU:HG	1:E:515:ARG:CZ	2.38	0.53
1:G:249:LEU:HD23	1:G:252:ALA:CA	2.27	0.53
1:G:387:ILE:HG22	1:G:388:PHE:H	1.72	0.53
1:G:564:GLU:OE2	1:G:568:ARG:NH2	2.41	0.53
1:H:32:TRP:CD1	1:H:43:ILE:HD13	2.43	0.53
1:H:107:TYR:C	1:H:110:GLN:H	2.15	0.53
1:A:157:PRO:HD2	1:A:161:ILE:HD11	1.90	0.53
1:B:213:PHE:C	1:B:213:PHE:CD2	2.86	0.53
1:B:229:VAL:CG1	1:C:229:VAL:HG13	2.32	0.53
1:C:308:SER:O	1:C:309:LEU:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:402:SER:HA	1:C:609:TYR:CD1	2.43	0.53
1:C:466:SER:HB3	1:C:537:MET:HE1	1.90	0.53
1:D:28:TYR:HD2	1:D:45:GLN:HE21	1.54	0.53
1:D:308:SER:O	1:D:309:LEU:HB2	2.09	0.53
1:D:641:LYS:HB3	1:D:645:ARG:NH2	2.13	0.53
1:E:226:TRP:CD1	1:E:227:GLN:HB3	2.44	0.53
1:E:387:ILE:CD1	1:E:450:GLY:N	2.71	0.53
1:F:150:ASN:OD1	1:F:150:ASN:N	2.39	0.53
1:F:317:MET:CE	1:F:609:TYR:CZ	2.92	0.53
1:F:642:ILE:HG12	1:F:645:ARG:CZ	2.39	0.53
1:A:148:PRO:HD3	1:A:188:TYR:CZ	2.43	0.53
1:A:213:PHE:O	1:A:216:ILE:N	2.42	0.53
1:A:263:ASN:HD21	1:A:265:LEU:N	2.06	0.53
1:A:616:VAL:HG13	1:A:619:LYS:HD2	1.91	0.53
1:B:71:PRO:O	1:B:72:ASN:CB	2.57	0.53
1:B:145:ASP:CG	1:B:167:LEU:HD13	2.33	0.53
1:B:265:LEU:HD23	1:B:269:LEU:HB3	1.89	0.53
1:C:32:TRP:CD1	1:C:43:ILE:HD13	2.44	0.53
1:C:109:ASN:O	1:C:111:PHE:N	2.42	0.53
1:C:285:GLN:NE2	1:C:286:ARG:HH12	2.05	0.53
1:C:433:ILE:HG21	1:C:571:TYR:OH	2.08	0.53
1:C:449:GLN:O	1:C:450:GLY:C	2.51	0.53
1:D:189:LEU:CG	1:D:190:ALA:N	2.66	0.53
1:E:107:TYR:CE1	1:E:153:LEU:HD12	2.44	0.53
1:E:118:LYS:CB	1:E:264:HIS:O	2.57	0.53
1:E:249:LEU:HD23	1:E:252:ALA:CA	2.26	0.53
1:E:433:ILE:CG2	1:E:571:TYR:OH	2.56	0.53
1:E:493:ASP:HB3	1:E:514:TRP:CZ3	2.44	0.53
1:E:633:MET:SD	1:E:633:MET:N	2.82	0.53
1:E:653:GLU:HA	1:E:656:ASN:HB3	1.91	0.53
1:F:449:GLN:NE2	1:F:453:THR:HG22	2.24	0.53
1:F:614:LYS:O	1:F:617:VAL:HB	2.09	0.53
1:G:107:TYR:O	1:G:110:GLN:CB	2.56	0.53
1:G:116:GLY:N	1:G:217:THR:O	2.42	0.53
1:G:582:ARG:H	1:G:582:ARG:CD	2.18	0.53
1:H:107:TYR:O	1:H:110:GLN:CB	2.56	0.53
1:H:433:ILE:HB	1:H:571:TYR:OH	2.09	0.53
1:H:614:LYS:O	1:H:617:VAL:HB	2.09	0.53
1:A:362:ASN:O	1:A:364:ALA:N	2.42	0.53
1:B:32:TRP:CD1	1:B:43:ILE:HD13	2.44	0.53
1:C:522:GLU:C	1:C:523:LEU:HG	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:TYR:HA	1:D:110:GLN:HB2	1.90	0.53
1:D:394:LYS:HG3	1:D:613:SER:HB2	1.90	0.53
1:D:434:TRP:CZ3	1:D:568:ARG:HG3	2.44	0.53
1:E:104:LEU:HB3	1:E:148:PRO:O	2.09	0.53
1:E:116:GLY:CA	1:E:217:THR:O	2.57	0.53
1:E:319:SER:C	1:E:321:ARG:N	2.67	0.53
1:E:416:ASP:OD1	1:E:416:ASP:N	2.40	0.53
1:F:62:ILE:HG23	1:F:94:LEU:HD13	1.90	0.53
1:F:137:HIS:ND1	1:F:201:VAL:HG13	2.24	0.53
1:H:153:LEU:HD23	1:H:162:HIS:CB	2.39	0.53
1:H:373:ASP:C	1:H:374:CYS:SG	2.92	0.53
1:H:387:ILE:HG22	1:H:388:PHE:H	1.73	0.53
1:A:438:ARG:HG2	1:A:564:GLU:OE1	2.08	0.53
1:B:33:ILE:HG22	1:B:34:HIS:C	2.34	0.53
1:B:357:SER:CA	1:B:453:THR:HB	2.36	0.53
1:B:373:ASP:CG	1:B:374:CYS:SG	2.92	0.53
1:B:473:THR:CG2	1:B:533:LEU:HD22	2.31	0.53
1:C:449:GLN:HA	1:C:449:GLN:OE1	2.07	0.53
1:D:120:GLY:CA	1:D:123:ARG:H	2.22	0.53
1:D:260:PRO:CG	1:D:274:GLU:HG2	2.39	0.53
1:E:422:THR:HG21	1:E:586:ASP:C	2.34	0.53
1:E:430:TRP:HB3	1:E:571:TYR:CD2	2.39	0.53
1:F:119:GLU:HB2	1:F:121:PRO:HB2	1.91	0.53
1:F:146:LEU:HB3	1:F:207:SER:HB2	1.91	0.53
1:F:387:ILE:HD13	1:F:450:GLY:HA2	1.89	0.53
1:G:157:PRO:HD2	1:G:161:ILE:HD11	1.90	0.53
1:A:285:GLN:HE21	1:A:286:ARG:HH12	1.57	0.52
1:A:522:GLU:C	1:A:523:LEU:HG	2.33	0.52
1:B:654:LEU:C	1:B:654:LEU:HD23	2.34	0.52
1:D:148:PRO:HD3	1:D:188:TYR:CZ	2.44	0.52
1:D:212:ALA:O	1:D:213:PHE:C	2.52	0.52
1:D:536:LYS:HB3	1:D:625:LEU:HD22	1.90	0.52
1:E:123:ARG:HD2	1:E:374:CYS:SG	2.50	0.52
1:E:210:THR:O	1:E:211:LEU:C	2.52	0.52
1:E:220:ARG:NH1	1:E:223:LEU:CD2	2.71	0.52
1:E:245:VAL:HG12	1:E:246:TYR:N	2.20	0.52
1:E:581:GLN:O	1:E:582:ARG:C	2.53	0.52
1:E:642:ILE:HG12	1:E:645:ARG:NH1	2.24	0.52
1:F:72:ASN:H	1:F:163:LYS:HE2	1.73	0.52
1:F:449:GLN:OE1	1:F:449:GLN:HA	2.09	0.52
1:G:272:LYS:HG3	1:G:276:TRP:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:641:LYS:HB3	1:A:645:ARG:NH2	2.12	0.52
1:B:109:ASN:O	1:B:111:PHE:N	2.42	0.52
1:C:485:PHE:CZ	1:D:485:PHE:CB	2.91	0.52
1:C:614:LYS:O	1:C:617:VAL:HB	2.10	0.52
1:D:26:PHE:CE2	1:D:179:CYS:HB3	2.41	0.52
1:D:210:THR:O	1:D:211:LEU:C	2.52	0.52
1:E:213:PHE:CD2	1:E:213:PHE:C	2.87	0.52
1:E:540:LEU:HD13	1:E:622:ALA:HB2	1.82	0.52
1:F:116:GLY:CA	1:F:217:THR:O	2.57	0.52
1:F:120:GLY:N	1:F:122:ILE:H	2.06	0.52
1:F:265:LEU:HD21	1:F:269:LEU:HB3	1.91	0.52
1:F:415:GLN:NE2	1:F:429:VAL:HG11	2.24	0.52
1:G:70:HIS:NE2	1:G:131:SER:O	2.43	0.52
1:G:213:PHE:O	1:G:216:ILE:N	2.42	0.52
1:H:313:SER:HA	1:H:324:THR:HA	1.90	0.52
1:A:308:SER:O	1:A:309:LEU:HB2	2.10	0.52
1:A:567:ALA:HA	1:A:590:MET:HE1	1.90	0.52
1:A:654:LEU:HD11	1:B:655:TRP:CE3	2.44	0.52
1:B:213:PHE:O	1:B:216:ILE:N	2.42	0.52
1:B:226:TRP:HD1	1:B:227:GLN:H	1.41	0.52
1:C:226:TRP:CD1	1:C:227:GLN:HB3	2.44	0.52
1:C:247:ASP:HB2	1:C:255:PHE:O	2.08	0.52
1:C:462:ASN:ND2	1:C:540:LEU:CB	2.71	0.52
1:C:581:GLN:O	1:C:582:ARG:C	2.52	0.52
1:D:89:ASN:HB3	1:D:91:LEU:H	1.74	0.52
1:D:449:GLN:O	1:D:450:GLY:C	2.53	0.52
1:D:633:MET:SD	1:D:633:MET:N	2.82	0.52
1:E:89:ASN:HB3	1:E:91:LEU:HB2	1.92	0.52
1:E:118:LYS:HG2	1:E:264:HIS:C	2.28	0.52
1:E:260:PRO:CD	1:E:274:GLU:HG2	2.39	0.52
1:F:145:ASP:CG	1:F:167:LEU:HD13	2.33	0.52
1:F:409:SER:HB2	1:F:412:ILE:CD1	2.39	0.52
1:G:533:LEU:HD23	1:G:629:VAL:HG13	1.91	0.52
1:H:33:ILE:HG22	1:H:34:HIS:C	2.34	0.52
1:B:153:LEU:HD23	1:B:162:HIS:CB	2.40	0.52
1:B:540:LEU:HD22	1:B:621:LYS:HZ1	1.74	0.52
1:B:642:ILE:HG12	1:B:645:ARG:CZ	2.40	0.52
1:C:165:ILE:HG12	1:C:166:ASP:H	1.74	0.52
1:C:213:PHE:O	1:C:216:ILE:N	2.41	0.52
1:C:480:LYS:NZ	1:C:525:GLY:C	2.67	0.52
1:D:89:ASN:HB3	1:D:91:LEU:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:TYR:CE1	1:D:153:LEU:HD12	2.44	0.52
1:D:373:ASP:CG	1:D:374:CYS:SG	2.93	0.52
1:D:521:VAL:HG13	1:D:643:VAL:CG1	2.40	0.52
1:D:646:ARG:HG3	1:D:647:GLN:CD	2.33	0.52
1:E:145:ASP:OD2	1:E:167:LEU:HD13	2.09	0.52
1:E:469:LYS:HZ2	1:E:630:LYS:CE	2.23	0.52
1:E:529:GLU:HG3	1:E:633:MET:CE	2.39	0.52
1:F:308:SER:O	1:F:309:LEU:HB2	2.09	0.52
1:F:588:ASN:CG	1:F:589:ASP:N	2.66	0.52
1:F:647:GLN:OE1	1:F:647:GLN:CA	2.58	0.52
1:H:148:PRO:HD3	1:H:188:TYR:CZ	2.45	0.52
1:A:107:TYR:CE1	1:A:153:LEU:HD12	2.44	0.52
1:A:107:TYR:HD1	1:A:153:LEU:HD12	1.68	0.52
1:C:521:VAL:HA	1:C:524:CYS:HG	1.72	0.52
1:D:145:ASP:CG	1:D:167:LEU:HD13	2.34	0.52
1:D:660:ILE:O	1:D:662:CYS:N	2.42	0.52
1:E:120:GLY:CA	1:E:123:ARG:H	2.21	0.52
1:E:449:GLN:NE2	1:E:453:THR:HG22	2.25	0.52
1:F:180:THR:HG22	1:F:180:THR:O	2.10	0.52
1:F:222:PHE:CD2	1:F:224:PRO:O	2.63	0.52
1:F:426:LEU:HB3	1:F:430:TRP:CD1	2.45	0.52
1:F:486:PHE:HZ	1:F:517:MET:HE2	1.74	0.52
1:G:180:THR:O	1:G:180:THR:HG22	2.10	0.52
1:G:226:TRP:CD1	1:G:227:GLN:HB3	2.45	0.52
1:H:193:LEU:CB	1:H:196:GLN:HE22	2.22	0.52
1:H:434:TRP:HZ3	1:H:568:ARG:CB	2.22	0.52
1:A:32:TRP:CD1	1:A:43:ILE:HD13	2.44	0.52
1:A:221:PRO:O	1:A:222:PHE:HB3	2.09	0.52
1:A:387:ILE:HD11	1:A:449:GLN:CG	2.39	0.52
1:A:387:ILE:HG22	1:A:388:PHE:H	1.74	0.52
1:A:517:MET:CE	1:A:650:ARG:HG3	2.39	0.52
1:A:642:ILE:HG12	1:A:645:ARG:NH1	2.25	0.52
1:B:104:LEU:HB3	1:B:148:PRO:O	2.10	0.52
1:B:387:ILE:HG22	1:B:388:PHE:H	1.74	0.52
1:B:581:GLN:O	1:B:582:ARG:C	2.52	0.52
1:B:647:GLN:OE1	1:B:647:GLN:CA	2.57	0.52
1:C:409:SER:HB2	1:C:412:ILE:CD1	2.40	0.52
1:C:494:LEU:HD21	1:C:518:GLU:OE2	2.09	0.52
1:C:653:GLU:HA	1:C:656:ASN:HB3	1.90	0.52
1:D:109:ASN:O	1:D:111:PHE:N	2.43	0.52
1:D:213:PHE:C	1:D:213:PHE:CD2	2.88	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:438:ARG:HG2	1:F:564:GLU:CD	2.35	0.52
1:G:415:GLN:NE2	1:G:429:VAL:HG11	2.24	0.52
1:G:533:LEU:HD21	1:G:633:MET:HE3	1.91	0.52
1:H:71:PRO:O	1:H:72:ASN:CB	2.57	0.52
1:A:222:PHE:CD2	1:A:224:PRO:O	2.63	0.52
1:A:265:LEU:HD23	1:A:269:LEU:CB	2.40	0.52
1:B:133:LEU:O	1:B:134:ARG:C	2.53	0.52
1:B:145:ASP:OD2	1:B:167:LEU:HD13	2.09	0.52
1:C:107:TYR:CE1	1:C:153:LEU:HD12	2.44	0.52
1:C:272:LYS:HG2	1:C:273:LEU:CA	2.40	0.52
1:D:165:ILE:HG12	1:D:166:ASP:H	1.74	0.52
1:D:531:GLN:HA	1:D:534:VAL:HG12	1.91	0.52
1:E:220:ARG:CB	1:E:221:PRO:HD2	2.39	0.52
1:E:517:MET:HE1	1:E:647:GLN:OE1	2.09	0.52
1:F:117:LEU:O	1:F:119:GLU:HG2	2.10	0.52
1:F:153:LEU:HD23	1:F:162:HIS:CB	2.40	0.52
1:G:68:LEU:HB3	1:G:135:TYR:CE2	2.45	0.52
1:G:145:ASP:OD2	1:G:167:LEU:HD13	2.10	0.52
1:B:107:TYR:CE1	1:B:153:LEU:HD12	2.45	0.52
1:B:263:ASN:HD21	1:B:265:LEU:N	2.06	0.52
1:B:494:LEU:HD22	1:B:518:GLU:OE2	2.07	0.52
1:B:540:LEU:HD11	1:B:621:LYS:CB	2.39	0.52
1:C:245:VAL:HG12	1:C:246:TYR:N	2.20	0.52
1:C:319:SER:C	1:C:321:ARG:N	2.66	0.52
1:D:180:THR:O	1:D:180:THR:HG22	2.10	0.52
1:D:245:VAL:HG12	1:D:246:TYR:N	2.22	0.52
1:D:277:LEU:C	1:D:279:CYS:H	2.16	0.52
1:D:522:GLU:C	1:D:523:LEU:HG	2.35	0.52
1:H:373:ASP:CG	1:H:374:CYS:SG	2.93	0.52
1:H:394:LYS:CE	1:H:401:ILE:HA	2.40	0.52
1:H:409:SER:HB2	1:H:412:ILE:CD1	2.40	0.52
1:H:540:LEU:HD21	1:H:621:LYS:HB3	1.91	0.52
1:A:145:ASP:OD2	1:A:167:LEU:HD13	2.09	0.52
1:A:319:SER:C	1:A:321:ARG:N	2.65	0.52
1:A:373:ASP:OD1	1:A:374:CYS:N	2.43	0.52
1:A:437:ILE:HG13	1:A:594:LEU:CD1	2.39	0.52
1:C:118:LYS:NZ	1:C:123:ARG:HH12	2.08	0.52
1:E:165:ILE:HG12	1:E:166:ASP:H	1.75	0.52
1:E:249:LEU:HD23	1:E:253:VAL:H	1.75	0.52
1:E:322:VAL:HG21	1:E:446:ARG:NH1	2.24	0.52
1:F:444:CYS:O	1:F:446:ARG:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:571:TYR:CZ	1:F:590:MET:SD	3.03	0.52
1:G:32:TRP:CD1	1:G:43:ILE:HD13	2.45	0.52
1:G:437:ILE:HG22	1:G:564:GLU:HB2	1.92	0.52
1:H:145:ASP:OD2	1:H:167:LEU:HD13	2.10	0.52
1:A:429:VAL:O	1:A:433:ILE:HG12	2.10	0.52
1:B:415:GLN:NE2	1:B:429:VAL:HG11	2.25	0.52
1:C:514:TRP:O	1:C:518:GLU:HG3	2.10	0.52
1:C:531:GLN:HA	1:C:534:VAL:HG12	1.92	0.52
1:D:115:CYS:O	1:D:263:ASN:HA	2.09	0.52
1:D:221:PRO:O	1:D:222:PHE:HB3	2.09	0.52
1:E:534:VAL:HG13	1:E:535:ASP:N	2.25	0.52
1:F:120:GLY:CA	1:F:123:ARG:H	2.22	0.52
1:F:438:ARG:NH1	1:F:568:ARG:HH21	2.08	0.52
1:G:285:GLN:HE21	1:G:286:ARG:HH12	1.58	0.52
1:H:226:TRP:CD1	1:H:227:GLN:HB3	2.45	0.52
1:H:248:ASP:OD1	1:H:248:ASP:O	2.28	0.52
1:A:120:GLY:CA	1:A:123:ARG:H	2.23	0.51
1:A:165:ILE:HG12	1:A:166:ASP:H	1.75	0.51
1:A:527:GLU:HG2	1:A:530:VAL:HG13	1.92	0.51
1:A:642:ILE:HG12	1:A:645:ARG:CZ	2.40	0.51
1:A:653:GLU:HA	1:A:656:ASN:HB3	1.92	0.51
1:B:180:THR:O	1:B:180:THR:HG22	2.10	0.51
1:B:212:ALA:O	1:B:213:PHE:C	2.53	0.51
1:C:434:TRP:HZ3	1:C:568:ARG:CA	2.21	0.51
1:D:387:ILE:HG22	1:D:388:PHE:H	1.74	0.51
1:D:412:ILE:HG12	1:D:433:ILE:CD1	2.40	0.51
1:D:582:ARG:H	1:D:582:ARG:CD	2.19	0.51
1:E:115:CYS:SG	1:E:432:GLN:HA	2.50	0.51
1:F:117:LEU:O	1:F:122:ILE:HD11	2.09	0.51
1:F:245:VAL:HG12	1:F:246:TYR:N	2.22	0.51
1:F:426:LEU:HB2	1:F:574:LEU:HD21	1.90	0.51
1:G:62:ILE:HG23	1:G:94:LEU:HD13	1.92	0.51
1:G:433:ILE:CG2	1:G:571:TYR:OH	2.57	0.51
1:G:534:VAL:HG13	1:G:535:ASP:N	2.25	0.51
1:G:587:SER:OG	1:G:588:ASN:N	2.37	0.51
1:A:614:LYS:O	1:A:617:VAL:HB	2.10	0.51
1:B:588:ASN:CG	1:B:589:ASP:N	2.65	0.51
1:C:213:PHE:C	1:C:213:PHE:CD2	2.88	0.51
1:C:286:ARG:O	1:C:290:THR:HG21	2.10	0.51
1:C:373:ASP:OD1	1:C:374:CYS:N	2.42	0.51
1:C:580:ASP:HA	1:C:582:ARG:HH11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:153:LEU:HD23	1:D:162:HIS:CB	2.40	0.51
1:E:71:PRO:O	1:E:72:ASN:CB	2.58	0.51
1:E:119:GLU:HB2	1:E:121:PRO:HB2	1.92	0.51
1:E:212:ALA:O	1:E:213:PHE:C	2.53	0.51
1:F:107:TYR:CE1	1:F:153:LEU:HD12	2.45	0.51
1:F:297:VAL:HB	1:F:301:GLN:H	1.75	0.51
1:F:654:LEU:HD23	1:F:654:LEU:C	2.35	0.51
1:G:153:LEU:HD23	1:G:162:HIS:CB	2.40	0.51
1:G:322:VAL:CG1	1:G:323:HIS:H	2.21	0.51
1:G:339:TRP:HA	1:G:342:GLN:CB	2.34	0.51
1:G:341:GLN:O	1:G:345:GLY:N	2.43	0.51
1:H:119:GLU:HB2	1:H:121:PRO:HB2	1.91	0.51
1:H:220:ARG:HB3	1:H:221:PRO:HD2	1.92	0.51
1:H:447:LEU:HD12	1:H:605:VAL:CG2	2.40	0.51
1:H:570:LEU:HD23	1:H:590:MET:HE2	1.93	0.51
1:A:409:SER:HB2	1:A:412:ILE:CD1	2.39	0.51
1:A:478:GLN:HG3	1:A:479:LEU:N	2.25	0.51
1:B:350:GLU:OE2	1:B:391:ASP:O	2.29	0.51
1:B:514:TRP:O	1:B:518:GLU:HG3	2.10	0.51
1:B:547:LEU:O	1:B:550:ASN:ND2	2.44	0.51
1:C:145:ASP:OD2	1:C:167:LEU:HD13	2.10	0.51
1:C:265:LEU:HD23	1:C:269:LEU:HB3	1.93	0.51
1:C:322:VAL:CG1	1:C:323:HIS:H	2.21	0.51
1:C:387:ILE:HG22	1:C:388:PHE:H	1.76	0.51
1:C:462:ASN:ND2	1:C:540:LEU:HB2	2.19	0.51
1:D:193:LEU:CB	1:D:196:GLN:HE22	2.23	0.51
1:D:224:PRO:HG3	1:D:428:ARG:HH22	1.75	0.51
1:D:235:VAL:CB	1:D:243:ILE:HA	2.37	0.51
1:D:402:SER:HA	1:D:609:TYR:CD1	2.45	0.51
1:D:642:ILE:HG12	1:D:645:ARG:CZ	2.40	0.51
1:E:272:LYS:HG2	1:E:273:LEU:CA	2.40	0.51
1:F:210:THR:O	1:F:211:LEU:C	2.53	0.51
1:F:570:LEU:HD23	1:F:590:MET:HE2	1.92	0.51
1:G:72:ASN:O	1:G:163:LYS:HA	2.11	0.51
1:G:134:ARG:CA	1:G:300:PHE:CZ	2.86	0.51
1:G:297:VAL:HB	1:G:301:GLN:H	1.75	0.51
1:A:113:ASN:HA	1:A:116:GLY:O	2.10	0.51
1:A:263:ASN:HD21	1:A:265:LEU:H	1.57	0.51
1:A:580:ASP:CB	1:D:579:ARG:NH2	2.71	0.51
1:B:89:ASN:HB3	1:B:91:LEU:HB2	1.92	0.51
1:B:285:GLN:HE21	1:B:286:ARG:HH12	1.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:GLN:HG2	1:B:285:GLN:O	2.11	0.51
1:B:327:VAL:CG1	1:B:367:LEU:HB2	2.34	0.51
1:B:442:GLU:HB3	1:B:446:ARG:HH21	1.75	0.51
1:B:444:CYS:C	1:B:446:ARG:N	2.63	0.51
1:B:646:ARG:HG3	1:B:647:GLN:CD	2.33	0.51
1:C:120:GLY:C	1:C:122:ILE:N	2.69	0.51
1:C:511:LEU:HG	1:C:515:ARG:CZ	2.40	0.51
1:D:263:ASN:HD21	1:D:265:LEU:N	2.07	0.51
1:D:297:VAL:HB	1:D:301:GLN:H	1.74	0.51
1:D:449:GLN:OE1	1:D:449:GLN:HA	2.09	0.51
1:E:357:SER:HB3	1:E:453:THR:HB	1.93	0.51
1:E:571:TYR:OH	1:E:590:MET:SD	2.69	0.51
1:E:642:ILE:HG12	1:E:645:ARG:CZ	2.40	0.51
1:F:119:GLU:HB3	1:F:121:PRO:CD	2.40	0.51
1:F:220:ARG:CB	1:F:221:PRO:HD2	2.41	0.51
1:F:281:LEU:O	1:F:282:MET:HE3	2.10	0.51
1:F:303:LEU:O	1:F:307:LEU:HB2	2.11	0.51
1:G:100:GLU:H	1:G:154:GLN:HG3	1.74	0.51
1:G:475:GLU:CG	1:G:636:MET:CE	2.57	0.51
1:H:191:PRO:HG3	1:H:234:LYS:HZ3	1.75	0.51
1:H:547:LEU:O	1:H:550:ASN:ND2	2.44	0.51
1:A:580:ASP:HA	1:A:582:ARG:HH11	1.75	0.51
1:B:386:LEU:H	1:B:386:LEU:CD1	2.22	0.51
1:B:550:ASN:HD21	1:B:611:GLN:HG3	1.74	0.51
1:B:642:ILE:HG12	1:B:645:ARG:NH1	2.25	0.51
1:C:134:ARG:HD2	1:C:300:PHE:CE1	2.45	0.51
1:C:249:LEU:HA	1:C:253:VAL:O	2.11	0.51
1:C:429:VAL:HG12	1:C:430:TRP:HD1	1.75	0.51
1:D:272:LYS:HG3	1:D:276:TRP:HB2	1.93	0.51
1:D:534:VAL:HG13	1:D:535:ASP:N	2.24	0.51
1:E:246:TYR:CD1	1:E:258:VAL:CB	2.72	0.51
1:E:249:LEU:HA	1:E:253:VAL:O	2.11	0.51
1:F:118:LYS:CD	1:F:265:LEU:HA	2.39	0.51
1:F:642:ILE:HG12	1:F:645:ARG:NH1	2.25	0.51
1:G:265:LEU:HD23	1:G:269:LEU:CB	2.40	0.51
1:G:581:GLN:O	1:G:582:ARG:C	2.53	0.51
1:H:534:VAL:HG13	1:H:535:ASP:N	2.26	0.51
1:B:107:TYR:O	1:B:110:GLN:HB2	2.11	0.51
1:C:547:LEU:HD22	1:C:611:GLN:HG2	1.93	0.51
1:D:191:PRO:HG3	1:D:234:LYS:HZ3	1.76	0.51
1:D:368:THR:O	1:D:368:THR:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:570:LEU:HD23	1:D:590:MET:CE	2.40	0.51
1:D:581:GLN:O	1:D:582:ARG:C	2.53	0.51
1:E:32:TRP:CD1	1:E:43:ILE:HD13	2.46	0.51
1:E:522:GLU:C	1:E:523:LEU:HG	2.35	0.51
1:F:107:TYR:O	1:F:110:GLN:HB2	2.11	0.51
1:F:145:ASP:OD2	1:F:167:LEU:HD13	2.11	0.51
1:G:120:GLY:CA	1:G:123:ARG:H	2.23	0.51
1:G:148:PRO:HD3	1:G:188:TYR:CZ	2.45	0.51
1:G:165:ILE:HG12	1:G:166:ASP:H	1.74	0.51
1:A:153:LEU:HD23	1:A:162:HIS:CB	2.40	0.51
1:A:350:GLU:OE2	1:A:391:ASP:O	2.28	0.51
1:A:357:SER:CA	1:A:453:THR:HB	2.41	0.51
1:A:415:GLN:NE2	1:A:429:VAL:HG11	2.26	0.51
1:A:449:GLN:NE2	1:A:453:THR:HG22	2.25	0.51
1:A:449:GLN:OE1	1:A:449:GLN:HA	2.10	0.51
1:A:531:GLN:O	1:A:535:ASP:HB3	2.11	0.51
1:D:247:ASP:HB2	1:D:255:PHE:O	2.11	0.51
1:D:426:LEU:HB3	1:D:430:TRP:CD1	2.46	0.51
1:D:500:GLN:C	1:D:505:ILE:HG12	2.36	0.51
1:F:521:VAL:HA	1:F:524:CYS:HG	1.72	0.51
1:F:564:GLU:OE2	1:F:568:ARG:NH2	2.44	0.51
1:G:245:VAL:HG12	1:G:246:TYR:N	2.22	0.51
1:G:429:VAL:O	1:G:433:ILE:HG12	2.10	0.51
1:G:434:TRP:HZ3	1:G:568:ARG:CB	2.24	0.51
1:A:119:GLU:HB2	1:A:121:PRO:CB	2.41	0.51
1:A:226:TRP:CD1	1:A:227:GLN:HB3	2.45	0.51
1:A:440:LEU:HD12	1:A:597:ALA:O	2.10	0.51
1:A:534:VAL:HG13	1:A:535:ASP:N	2.24	0.51
1:A:647:GLN:OE1	1:A:647:GLN:CA	2.58	0.51
1:B:148:PRO:HD3	1:B:188:TYR:CZ	2.45	0.51
1:B:286:ARG:O	1:B:290:THR:HG21	2.11	0.51
1:B:313:SER:HA	1:B:324:THR:HA	1.93	0.51
1:B:449:GLN:O	1:B:450:GLY:C	2.52	0.51
1:B:571:TYR:OH	1:B:590:MET:SD	2.64	0.51
1:C:503:PHE:C	1:C:505:ILE:H	2.17	0.51
1:C:511:LEU:HD21	1:C:515:ARG:NH2	2.26	0.51
1:D:341:GLN:O	1:D:345:GLY:N	2.44	0.51
1:D:373:ASP:C	1:D:374:CYS:SG	2.93	0.51
1:E:186:LEU:C	1:E:188:TYR:H	2.19	0.51
1:E:254:LYS:N	1:E:255:PHE:CE1	2.79	0.51
1:E:387:ILE:HG22	1:E:388:PHE:H	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:226:TRP:CG	1:F:227:GLN:N	2.59	0.51
1:F:322:VAL:CG1	1:F:323:HIS:H	2.20	0.51
1:F:534:VAL:HG13	1:F:535:ASP:N	2.25	0.51
1:G:100:GLU:N	1:G:154:GLN:HG3	2.26	0.51
1:G:222:PHE:CD2	1:G:224:PRO:O	2.63	0.51
1:H:570:LEU:CD2	1:H:590:MET:HE2	2.41	0.51
1:A:272:LYS:HG3	1:A:276:TRP:HB2	1.93	0.51
1:A:531:GLN:HA	1:A:534:VAL:HG12	1.92	0.51
1:A:581:GLN:O	1:A:582:ARG:C	2.54	0.51
1:B:479:LEU:HB3	1:B:640:GLU:CD	2.29	0.51
1:B:497:TYR:O	1:B:497:TYR:HD2	1.85	0.51
1:C:118:LYS:HG2	1:C:264:HIS:C	2.32	0.51
1:C:133:LEU:O	1:C:134:ARG:C	2.53	0.51
1:C:153:LEU:HD23	1:C:162:HIS:CB	2.40	0.51
1:D:249:LEU:HA	1:D:253:VAL:O	2.11	0.51
1:D:444:CYS:O	1:D:446:ARG:N	2.44	0.51
1:D:479:LEU:HD12	1:D:640:GLU:CB	2.40	0.51
1:D:588:ASN:OD1	1:D:589:ASP:N	2.44	0.51
1:D:642:ILE:HG12	1:D:645:ARG:NH1	2.25	0.51
1:E:409:SER:HB2	1:E:412:ILE:CD1	2.38	0.51
1:E:580:ASP:HA	1:E:582:ARG:HH11	1.76	0.51
1:E:647:GLN:OE1	1:E:647:GLN:CA	2.58	0.51
1:F:71:PRO:O	1:F:72:ASN:CB	2.58	0.51
1:F:429:VAL:O	1:F:433:ILE:HG12	2.10	0.51
1:F:522:GLU:C	1:F:523:LEU:HG	2.35	0.51
1:F:529:GLU:O	1:F:533:LEU:HG	2.10	0.51
1:G:119:GLU:HB2	1:G:121:PRO:HB2	1.93	0.51
1:G:387:ILE:CD1	1:G:450:GLY:CA	2.87	0.51
1:G:426:LEU:HB3	1:G:430:TRP:CD1	2.45	0.51
1:G:633:MET:SD	1:G:633:MET:N	2.84	0.51
1:H:165:ILE:HG12	1:H:166:ASP:H	1.76	0.51
1:H:440:LEU:HD12	1:H:597:ALA:O	2.11	0.51
1:H:547:LEU:HD13	1:H:615:THR:HG22	1.93	0.51
1:H:581:GLN:O	1:H:582:ARG:C	2.53	0.51
1:A:109:ASN:O	1:A:111:PHE:N	2.44	0.51
1:A:220:ARG:NH1	1:A:223:LEU:CD2	2.71	0.51
1:A:313:SER:HA	1:A:324:THR:HA	1.92	0.51
1:B:269:LEU:C	1:B:271:GLY:N	2.68	0.51
1:B:531:GLN:O	1:B:535:ASP:HB3	2.11	0.51
1:C:107:TYR:O	1:C:110:GLN:HB2	2.10	0.51
1:C:116:GLY:CA	1:C:217:THR:O	2.59	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:449:GLN:NE2	1:C:453:THR:HG22	2.26	0.51
1:C:534:VAL:HG13	1:C:535:ASP:N	2.25	0.51
1:D:189:LEU:HD12	1:D:207:SER:HB3	1.93	0.51
1:D:265:LEU:HD23	1:D:269:LEU:CB	2.41	0.51
1:E:107:TYR:O	1:E:110:GLN:HB2	2.10	0.51
1:E:646:ARG:HG3	1:E:647:GLN:CD	2.31	0.51
1:E:649:LYS:HA	1:E:652:GLN:HB2	1.92	0.51
1:F:226:TRP:HD1	1:F:227:GLN:N	2.04	0.51
1:F:368:THR:O	1:F:368:THR:HG22	2.11	0.51
1:F:581:GLN:O	1:F:582:ARG:C	2.53	0.51
1:G:89:ASN:HB3	1:G:91:LEU:HB2	1.92	0.51
1:G:409:SER:HB2	1:G:412:ILE:CD1	2.38	0.51
1:H:250:THR:C	1:H:251:GLY:O	2.54	0.51
1:A:18:LYS:NZ	1:A:33:ILE:HD12	2.27	0.50
1:A:588:ASN:OD1	1:A:589:ASP:N	2.43	0.50
1:B:409:SER:HB2	1:B:412:ILE:CD1	2.40	0.50
1:B:449:GLN:NE2	1:B:453:THR:HG22	2.26	0.50
1:C:303:LEU:O	1:C:307:LEU:HB2	2.11	0.50
1:C:437:ILE:HG22	1:C:564:GLU:HB2	1.92	0.50
1:C:666:ARG:HD2	1:D:503:PHE:HD1	1.75	0.50
1:D:226:TRP:CD1	1:D:227:GLN:HB3	2.45	0.50
1:F:350:GLU:OE2	1:F:391:ASP:O	2.29	0.50
1:G:121:PRO:HA	1:G:124:THR:OG1	2.11	0.50
1:H:89:ASN:HB3	1:H:91:LEU:HB2	1.93	0.50
1:H:308:SER:O	1:H:309:LEU:HB2	2.12	0.50
1:H:567:ALA:HA	1:H:590:MET:HE1	1.92	0.50
1:A:118:LYS:HD3	1:A:265:LEU:HD12	1.94	0.50
1:B:221:PRO:O	1:B:222:PHE:HB3	2.11	0.50
1:B:651:GLN:O	1:B:652:GLN:C	2.55	0.50
1:D:116:GLY:HA2	1:D:217:THR:O	2.12	0.50
1:D:117:LEU:O	1:D:122:ILE:HD11	2.11	0.50
1:D:285:GLN:HE21	1:D:286:ARG:HH12	1.57	0.50
1:D:476:CYS:CA	1:D:636:MET:SD	2.98	0.50
1:E:118:LYS:CD	1:E:265:LEU:HA	2.42	0.50
1:E:153:LEU:HD23	1:E:162:HIS:CB	2.40	0.50
1:E:213:PHE:O	1:E:216:ILE:N	2.43	0.50
1:E:480:LYS:NZ	1:E:527:GLU:HB2	2.27	0.50
1:F:60:LEU:HD21	1:F:175:GLN:HB3	1.91	0.50
1:F:361:LEU:HD11	1:F:386:LEU:HD23	1.94	0.50
1:G:26:PHE:HE2	1:G:181:GLU:CD	2.19	0.50
1:G:107:TYR:CE1	1:G:153:LEU:HD12	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:270:ALA:HB1	1:G:274:GLU:OE2	2.12	0.50
1:G:580:ASP:HA	1:G:582:ARG:HH11	1.75	0.50
1:H:260:PRO:CD	1:H:274:GLU:HG2	2.41	0.50
1:H:633:MET:SD	1:H:633:MET:N	2.84	0.50
1:A:547:LEU:O	1:A:550:ASN:ND2	2.45	0.50
1:A:655:TRP:CE3	1:B:654:LEU:HD12	2.35	0.50
1:B:110:GLN:O	1:B:111:PHE:CB	2.37	0.50
1:B:193:LEU:CB	1:B:196:GLN:HE22	2.23	0.50
1:B:441:LYS:HB2	1:B:560:LEU:HD21	1.93	0.50
1:B:522:GLU:C	1:B:523:LEU:HG	2.36	0.50
1:C:180:THR:HG22	1:C:180:THR:O	2.11	0.50
1:C:281:LEU:C	1:C:282:MET:HG2	2.36	0.50
1:D:317:MET:HE3	1:D:609:TYR:CZ	2.46	0.50
1:D:547:LEU:HD12	1:D:615:THR:HG22	1.93	0.50
1:E:180:THR:O	1:E:180:THR:HG22	2.12	0.50
1:E:494:LEU:CD2	1:E:518:GLU:OE2	2.59	0.50
1:G:193:LEU:HD22	1:G:231:TRP:CD1	2.47	0.50
1:G:212:ALA:O	1:G:213:PHE:C	2.54	0.50
1:G:263:ASN:HD21	1:G:265:LEU:H	1.57	0.50
1:G:531:GLN:O	1:G:535:ASP:HB3	2.12	0.50
1:H:213:PHE:O	1:H:216:ILE:N	2.45	0.50
1:H:303:LEU:O	1:H:307:LEU:HB2	2.10	0.50
1:H:394:LYS:HE2	1:H:401:ILE:CA	2.40	0.50
1:A:220:ARG:HB3	1:A:221:PRO:HD2	1.92	0.50
1:B:159:ARG:HD3	1:B:375:THR:HG21	1.93	0.50
1:B:272:LYS:HG3	1:B:276:TRP:HB2	1.93	0.50
1:B:419:ARG:HA	1:B:587:SER:OG	2.11	0.50
1:C:113:ASN:HA	1:C:116:GLY:O	2.12	0.50
1:C:119:GLU:HB2	1:C:121:PRO:HB2	1.93	0.50
1:C:285:GLN:O	1:C:285:GLN:HG2	2.12	0.50
1:C:368:THR:O	1:C:368:THR:HG22	2.10	0.50
1:C:473:THR:CG2	1:C:533:LEU:CD2	2.80	0.50
1:C:529:GLU:O	1:C:533:LEU:HG	2.11	0.50
1:C:564:GLU:OE2	1:C:568:ARG:NH2	2.43	0.50
1:D:119:GLU:HB2	1:D:121:PRO:HB2	1.94	0.50
1:D:134:ARG:HB2	1:D:300:PHE:CE1	2.46	0.50
1:D:444:CYS:C	1:D:446:ARG:N	2.66	0.50
1:D:529:GLU:HG3	1:D:633:MET:HE1	1.92	0.50
1:D:529:GLU:O	1:D:533:LEU:HG	2.12	0.50
1:F:221:PRO:O	1:F:222:PHE:HB3	2.11	0.50
1:F:235:VAL:CB	1:F:243:ILE:HA	2.38	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:497:TYR:O	1:F:497:TYR:HD2	1.91	0.50
1:G:26:PHE:HE2	1:G:181:GLU:OE1	1.95	0.50
1:G:529:GLU:O	1:G:533:LEU:HG	2.11	0.50
1:G:614:LYS:O	1:G:617:VAL:HB	2.11	0.50
1:H:133:LEU:O	1:H:134:ARG:C	2.54	0.50
1:H:226:TRP:HB3	1:H:229:VAL:CG2	2.42	0.50
1:H:359:LEU:HA	1:H:460:ARG:NH1	2.25	0.50
1:H:402:SER:HB3	1:H:609:TYR:HB2	1.94	0.50
1:H:434:TRP:CZ3	1:H:568:ARG:CG	2.82	0.50
1:H:609:TYR:O	1:H:612:LEU:HB3	2.12	0.50
1:A:447:LEU:HD13	1:A:609:TYR:HE1	1.75	0.50
1:A:449:GLN:O	1:A:450:GLY:C	2.54	0.50
1:B:500:GLN:CA	1:B:505:ILE:HG12	2.41	0.50
1:B:511:LEU:HG	1:B:515:ARG:CZ	2.42	0.50
1:B:547:LEU:HD11	1:B:614:LYS:HB3	1.81	0.50
1:C:260:PRO:CD	1:C:274:GLU:HG2	2.41	0.50
1:C:412:ILE:HG12	1:C:433:ILE:CD1	2.42	0.50
1:E:449:GLN:O	1:E:450:GLY:C	2.55	0.50
1:F:89:ASN:HB3	1:F:91:LEU:HB2	1.91	0.50
1:F:113:ASN:HA	1:F:116:GLY:O	2.12	0.50
1:F:412:ILE:HG12	1:F:433:ILE:CD1	2.41	0.50
1:F:437:ILE:CG1	1:F:594:LEU:HD12	2.41	0.50
1:G:616:VAL:HG13	1:G:619:LYS:HD2	1.93	0.50
1:H:107:TYR:CE1	1:H:153:LEU:HD12	2.45	0.50
1:H:254:LYS:N	1:H:255:PHE:CE1	2.80	0.50
1:H:415:GLN:NE2	1:H:429:VAL:HG11	2.26	0.50
1:A:118:LYS:NZ	1:A:123:ARG:HH12	2.10	0.50
1:A:186:LEU:C	1:A:188:TYR:H	2.19	0.50
1:A:479:LEU:HD11	1:A:641:LYS:HG3	1.92	0.50
1:A:514:TRP:O	1:A:518:GLU:HG3	2.11	0.50
1:C:485:PHE:CD1	1:D:485:PHE:CD1	3.00	0.50
1:D:107:TYR:O	1:D:110:GLN:HB2	2.12	0.50
1:D:222:PHE:CE2	1:D:224:PRO:O	2.64	0.50
1:E:285:GLN:HG2	1:E:285:GLN:O	2.12	0.50
1:F:109:ASN:O	1:F:111:PHE:N	2.45	0.50
1:F:660:ILE:O	1:F:662:CYS:N	2.45	0.50
1:G:308:SER:O	1:G:309:LEU:HB2	2.12	0.50
1:G:313:SER:HA	1:G:324:THR:HA	1.92	0.50
1:G:373:ASP:CG	1:G:374:CYS:SG	2.94	0.50
1:H:109:ASN:O	1:H:111:PHE:N	2.45	0.50
1:H:180:THR:HG22	1:H:180:THR:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:189:LEU:HD12	1:H:207:SER:HB3	1.94	0.50
1:B:487:ARG:HH21	1:B:522:GLU:HA	1.77	0.50
1:C:120:GLY:CA	1:C:123:ARG:H	2.24	0.50
1:C:265:LEU:HD23	1:C:269:LEU:CB	2.42	0.50
1:C:272:LYS:O	1:C:273:LEU:C	2.55	0.50
1:C:327:VAL:CG1	1:C:367:LEU:HB2	2.36	0.50
1:D:437:ILE:HG13	1:D:594:LEU:CD1	2.41	0.50
1:D:441:LYS:CB	1:D:560:LEU:HD21	2.42	0.50
1:D:564:GLU:OE2	1:D:568:ARG:NH2	2.44	0.50
1:E:134:ARG:HD2	1:E:300:PHE:CE1	2.46	0.50
1:F:26:PHE:CE2	1:F:179:CYS:HB3	2.47	0.50
1:F:72:ASN:O	1:F:163:LYS:HA	2.12	0.50
1:F:339:TRP:HA	1:F:342:GLN:CB	2.35	0.50
1:F:534:VAL:CG1	1:F:535:ASP:N	2.75	0.50
1:G:186:LEU:HD23	1:G:227:GLN:HG2	1.94	0.50
1:G:191:PRO:HG3	1:G:234:LYS:HZ3	1.75	0.50
1:A:133:LEU:O	1:A:134:ARG:C	2.54	0.50
1:A:212:ALA:O	1:A:213:PHE:C	2.55	0.50
1:A:286:ARG:O	1:A:290:THR:HG21	2.12	0.50
1:A:387:ILE:HD12	1:A:450:GLY:HA2	1.94	0.50
1:A:646:ARG:HG3	1:A:647:GLN:CD	2.32	0.50
1:B:247:ASP:HB2	1:B:255:PHE:O	2.11	0.50
1:B:265:LEU:HD23	1:B:269:LEU:CB	2.42	0.50
1:B:389:LEU:HD12	1:B:389:LEU:N	2.26	0.50
1:C:18:LYS:NZ	1:C:33:ILE:HD12	2.26	0.50
1:C:418:LYS:O	1:C:419:ARG:CB	2.60	0.50
1:C:459:LEU:CD1	1:C:548:GLN:HB3	2.41	0.50
1:C:547:LEU:O	1:C:550:ASN:ND2	2.44	0.50
1:C:649:LYS:HA	1:C:652:GLN:CB	2.41	0.50
1:D:429:VAL:O	1:D:433:ILE:HG12	2.11	0.50
1:D:479:LEU:C	1:D:640:GLU:OE2	2.55	0.50
1:D:493:ASP:HB3	1:D:514:TRP:CH2	2.47	0.50
1:E:272:LYS:HG3	1:E:276:TRP:HB2	1.94	0.50
1:F:216:ILE:HG21	1:F:273:LEU:HD12	1.94	0.50
1:F:531:GLN:HA	1:F:534:VAL:HG12	1.92	0.50
1:G:133:LEU:O	1:G:134:ARG:C	2.54	0.50
1:G:220:ARG:HB3	1:G:221:PRO:HD2	1.93	0.50
1:G:361:LEU:HD11	1:G:386:LEU:HD23	1.94	0.50
1:A:341:GLN:O	1:A:345:GLY:N	2.45	0.50
1:B:26:PHE:HZ	1:B:179:CYS:HB3	1.73	0.50
1:B:260:PRO:CD	1:B:274:GLU:HG2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:361:LEU:HD11	1:C:386:LEU:HD23	1.94	0.50
1:D:71:PRO:O	1:D:72:ASN:CB	2.59	0.50
1:D:213:PHE:O	1:D:214:GLU:C	2.54	0.50
1:D:313:SER:HA	1:D:324:THR:HA	1.94	0.50
1:D:594:LEU:O	1:D:598:ILE:HG13	2.12	0.50
1:E:120:GLY:N	1:E:122:ILE:H	2.06	0.50
1:E:308:SER:O	1:E:309:LEU:HB2	2.10	0.50
1:E:426:LEU:HB3	1:E:430:TRP:CD1	2.47	0.50
1:E:534:VAL:CG1	1:E:535:ASP:N	2.75	0.50
1:G:300:PHE:O	1:G:301:GLN:C	2.55	0.50
1:G:368:THR:O	1:G:368:THR:HG22	2.11	0.50
1:G:547:LEU:O	1:G:550:ASN:ND2	2.44	0.50
1:H:272:LYS:HG3	1:H:276:TRP:HB2	1.93	0.50
1:H:390:PHE:HZ	1:H:612:LEU:HD11	1.77	0.50
1:A:269:LEU:HD22	1:A:272:LYS:HE3	1.94	0.49
1:A:534:VAL:CG1	1:A:535:ASP:N	2.74	0.49
1:B:484:ASP:C	1:B:486:PHE:H	2.20	0.49
1:C:115:CYS:O	1:C:263:ASN:HA	2.12	0.49
1:C:115:CYS:CB	1:C:435:GLN:HG3	2.42	0.49
1:C:313:SER:HA	1:C:324:THR:HA	1.92	0.49
1:C:573:ARG:HH12	1:D:573:ARG:CZ	2.15	0.49
1:D:113:ASN:HA	1:D:116:GLY:O	2.12	0.49
1:D:186:LEU:C	1:D:188:TYR:H	2.19	0.49
1:D:226:TRP:HB3	1:D:229:VAL:CG2	2.41	0.49
1:E:303:LEU:O	1:E:307:LEU:HB2	2.12	0.49
1:F:226:TRP:HB3	1:F:229:VAL:CG2	2.41	0.49
1:F:249:LEU:HD23	1:F:253:VAL:H	1.76	0.49
1:F:265:LEU:HD23	1:F:269:LEU:CB	2.42	0.49
1:F:341:GLN:O	1:F:345:GLY:N	2.45	0.49
1:F:449:GLN:O	1:F:450:GLY:C	2.54	0.49
1:F:642:ILE:C	1:F:644:VAL:H	2.20	0.49
1:G:286:ARG:O	1:G:290:THR:HG21	2.12	0.49
1:G:443:ASP:O	1:G:446:ARG:CB	2.59	0.49
1:G:534:VAL:CG1	1:G:535:ASP:N	2.75	0.49
1:H:272:LYS:HG2	1:H:273:LEU:CA	2.42	0.49
1:A:107:TYR:O	1:A:110:GLN:HB2	2.12	0.49
1:A:361:LEU:HD11	1:A:386:LEU:HD23	1.94	0.49
1:B:116:GLY:N	1:B:217:THR:O	2.45	0.49
1:B:165:ILE:HG12	1:B:166:ASP:H	1.78	0.49
1:B:300:PHE:O	1:B:301:GLN:C	2.55	0.49
1:B:303:LEU:O	1:B:307:LEU:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:433:ILE:HG21	1:B:590:MET:O	2.11	0.49
1:B:534:VAL:HG13	1:B:535:ASP:N	2.25	0.49
1:B:570:LEU:CB	1:B:590:MET:HE2	2.41	0.49
1:C:115:CYS:SG	1:C:432:GLN:HA	2.52	0.49
1:C:117:LEU:O	1:C:122:ILE:HD11	2.12	0.49
1:C:119:GLU:HB3	1:C:121:PRO:CD	2.37	0.49
1:C:434:TRP:HZ3	1:C:568:ARG:CG	2.24	0.49
1:C:517:MET:SD	1:C:650:ARG:HG3	2.52	0.49
1:D:262:PRO:HB3	1:D:409:SER:CB	2.41	0.49
1:D:303:LEU:O	1:D:307:LEU:HB2	2.12	0.49
1:D:390:PHE:CZ	1:D:612:LEU:HD11	2.46	0.49
1:D:534:VAL:CG1	1:D:535:ASP:N	2.74	0.49
1:E:109:ASN:O	1:E:111:PHE:N	2.45	0.49
1:E:187:GLN:HB3	1:E:223:LEU:HD22	1.86	0.49
1:E:423:TYR:O	1:E:425:HIS:N	2.45	0.49
1:F:116:GLY:N	1:F:217:THR:O	2.44	0.49
1:F:394:LYS:CG	1:F:613:SER:HB2	2.42	0.49
1:F:402:SER:HA	1:F:609:TYR:CD1	2.47	0.49
1:G:190:ALA:HB2	1:G:206:TRP:CG	2.47	0.49
1:H:190:ALA:HB2	1:H:206:TRP:CD1	2.46	0.49
1:H:588:ASN:OD1	1:H:589:ASP:N	2.44	0.49
1:B:115:CYS:SG	1:B:432:GLN:HA	2.51	0.49
1:B:226:TRP:HB3	1:B:229:VAL:CG2	2.42	0.49
1:B:531:GLN:HA	1:B:534:VAL:HG12	1.93	0.49
1:B:588:ASN:OD1	1:B:589:ASP:N	2.44	0.49
1:C:583:THR:HB	1:C:584:PRO:CD	2.42	0.49
1:C:654:LEU:CD2	1:D:654:LEU:HD22	2.36	0.49
1:D:580:ASP:HA	1:D:582:ARG:HH11	1.76	0.49
1:E:118:LYS:CB	1:E:264:HIS:C	2.85	0.49
1:E:153:LEU:HD22	1:E:162:HIS:HD1	1.78	0.49
1:E:527:GLU:C	1:E:529:GLU:N	2.69	0.49
1:F:248:ASP:OD1	1:F:248:ASP:O	2.30	0.49
1:F:531:GLN:O	1:F:535:ASP:HB3	2.12	0.49
1:F:580:ASP:HA	1:F:582:ARG:HH11	1.76	0.49
1:G:107:TYR:O	1:G:110:GLN:HB2	2.12	0.49
1:G:109:ASN:O	1:G:111:PHE:N	2.45	0.49
1:G:125:LEU:CA	1:G:162:HIS:NE2	2.70	0.49
1:G:443:ASP:O	1:G:446:ARG:N	2.45	0.49
1:G:588:ASN:OD1	1:G:589:ASP:N	2.45	0.49
1:H:113:ASN:HA	1:H:116:GLY:O	2.12	0.49
1:A:368:THR:O	1:A:368:THR:HG22	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:426:LEU:HB3	1:A:430:TRP:CD1	2.47	0.49
1:A:441:LYS:HD2	1:A:561:ASP:OD1	2.13	0.49
1:A:573:ARG:HH22	1:B:572:ARG:HD3	1.77	0.49
1:B:130:SER:O	1:B:300:PHE:CE1	2.66	0.49
1:B:373:ASP:OD1	1:B:374:CYS:N	2.45	0.49
1:C:272:LYS:HG3	1:C:276:TRP:HB2	1.93	0.49
1:D:119:GLU:HB2	1:D:121:PRO:CB	2.43	0.49
1:D:285:GLN:O	1:D:285:GLN:HG2	2.12	0.49
1:D:394:LYS:CG	1:D:613:SER:HB2	2.42	0.49
1:E:118:LYS:HD3	1:E:265:LEU:HA	1.94	0.49
1:E:419:ARG:NH1	1:E:588:ASN:HA	2.27	0.49
1:E:531:GLN:HA	1:E:534:VAL:HG12	1.93	0.49
1:E:547:LEU:O	1:E:550:ASN:ND2	2.45	0.49
1:F:313:SER:HA	1:F:324:THR:HA	1.93	0.49
1:F:478:GLN:HG3	1:F:479:LEU:N	2.26	0.49
1:H:120:GLY:N	1:H:122:ILE:H	2.08	0.49
1:H:120:GLY:CA	1:H:123:ARG:H	2.25	0.49
1:H:583:THR:O	1:H:584:PRO:C	2.56	0.49
1:A:226:TRP:HB3	1:A:229:VAL:CG2	2.42	0.49
1:A:493:ASP:HB3	1:A:514:TRP:HH2	1.74	0.49
1:C:254:LYS:N	1:C:255:PHE:CE1	2.80	0.49
1:C:387:ILE:HD11	1:C:449:GLN:CG	2.42	0.49
1:C:426:LEU:HB3	1:C:430:TRP:CD1	2.47	0.49
1:D:72:ASN:O	1:D:163:LYS:HA	2.12	0.49
1:D:145:ASP:OD2	1:D:167:LEU:HD13	2.12	0.49
1:D:531:GLN:O	1:D:535:ASP:HB3	2.12	0.49
1:F:260:PRO:CD	1:F:274:GLU:HG2	2.43	0.49
1:G:116:GLY:CA	1:G:216:ILE:O	2.60	0.49
1:G:285:GLN:HG2	1:G:285:GLN:O	2.12	0.49
1:G:303:LEU:O	1:G:307:LEU:HB2	2.13	0.49
1:H:118:LYS:NZ	1:H:123:ARG:HH12	2.10	0.49
1:H:263:ASN:HD21	1:H:265:LEU:H	1.60	0.49
1:H:434:TRP:HE3	1:H:568:ARG:CA	2.08	0.49
1:H:531:GLN:HA	1:H:534:VAL:HG12	1.94	0.49
1:A:180:THR:O	1:A:180:THR:HG22	2.13	0.49
1:A:193:LEU:CB	1:A:196:GLN:HE22	2.24	0.49
1:A:270:ALA:HB1	1:A:274:GLU:OE2	2.13	0.49
1:A:303:LEU:O	1:A:307:LEU:HB2	2.12	0.49
1:A:564:GLU:OE2	1:A:568:ARG:NH2	2.45	0.49
1:A:633:MET:SD	1:A:633:MET:N	2.85	0.49
1:C:118:LYS:CB	1:C:264:HIS:O	2.59	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:ARG:CB	1:C:221:PRO:HD2	2.42	0.49
1:C:642:ILE:HG12	1:C:645:ARG:CZ	2.42	0.49
1:D:478:GLN:HG3	1:D:479:LEU:N	2.28	0.49
1:E:119:GLU:HB3	1:E:121:PRO:CD	2.42	0.49
1:E:216:ILE:HG21	1:E:273:LEU:CD1	2.43	0.49
1:E:281:LEU:C	1:E:282:MET:HG2	2.38	0.49
1:E:494:LEU:HD12	1:E:514:TRP:CE3	2.37	0.49
1:E:511:LEU:HD21	1:E:515:ARG:NH2	2.27	0.49
1:F:484:ASP:O	1:F:485:PHE:C	2.55	0.49
1:G:120:GLY:N	1:G:122:ILE:H	2.08	0.49
1:G:235:VAL:CB	1:G:243:ILE:HA	2.39	0.49
1:G:269:LEU:HD22	1:G:272:LYS:HE3	1.94	0.49
1:G:272:LYS:O	1:G:273:LEU:C	2.55	0.49
1:H:119:GLU:HB2	1:H:121:PRO:CB	2.43	0.49
1:H:412:ILE:HG12	1:H:433:ILE:CD1	2.42	0.49
1:A:246:TYR:HB2	1:A:256:SER:HB3	1.94	0.49
1:A:285:GLN:O	1:A:285:GLN:HG2	2.12	0.49
1:A:422:THR:CB	1:A:585:GLY:C	2.84	0.49
1:A:583:THR:HB	1:A:584:PRO:CD	2.43	0.49
1:B:72:ASN:O	1:B:164:ILE:HG22	2.13	0.49
1:B:189:LEU:HD12	1:B:207:SER:HB3	1.94	0.49
1:B:339:TRP:HA	1:B:342:GLN:CB	2.36	0.49
1:C:119:GLU:HB2	1:C:121:PRO:CB	2.43	0.49
1:C:342:GLN:NE2	1:E:284:HIS:NE2	2.59	0.49
1:C:478:GLN:HG3	1:C:479:LEU:N	2.27	0.49
1:C:484:ASP:C	1:C:486:PHE:H	2.20	0.49
1:C:655:TRP:CZ2	1:D:497:TYR:HB2	2.48	0.49
1:C:665:VAL:HG21	1:D:665:VAL:HG22	1.95	0.49
1:D:263:ASN:HD21	1:D:265:LEU:H	1.58	0.49
1:D:276:TRP:CZ2	1:D:280:MET:HG3	2.47	0.49
1:E:193:LEU:CB	1:E:196:GLN:HE22	2.25	0.49
1:E:550:ASN:OD1	1:E:611:GLN:OE1	2.30	0.49
1:E:654:LEU:HD23	1:E:654:LEU:C	2.38	0.49
1:F:118:LYS:HD3	1:F:265:LEU:HA	1.95	0.49
1:F:263:ASN:HD21	1:F:265:LEU:N	2.10	0.49
1:G:226:TRP:HB3	1:G:229:VAL:CG2	2.42	0.49
1:G:276:TRP:CZ2	1:G:280:MET:HG3	2.47	0.49
1:G:416:ASP:OD1	1:G:416:ASP:N	2.41	0.49
1:G:583:THR:HB	1:G:584:PRO:CD	2.43	0.49
1:H:213:PHE:C	1:H:213:PHE:CD2	2.90	0.49
1:H:245:VAL:HG12	1:H:246:TYR:N	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:269:LEU:HD22	1:H:272:LYS:HE3	1.95	0.49
1:H:272:LYS:O	1:H:273:LEU:C	2.55	0.49
1:H:285:GLN:HE21	1:H:286:ARG:HH12	1.58	0.49
1:H:423:TYR:O	1:H:425:HIS:N	2.45	0.49
1:A:322:VAL:CG1	1:A:323:HIS:H	2.21	0.49
1:A:571:TYR:CE2	1:A:590:MET:HG3	2.48	0.49
1:A:588:ASN:CG	1:A:589:ASP:N	2.63	0.49
1:A:662:CYS:SG	1:B:661:ALA:HB1	2.53	0.49
1:B:190:ALA:HB2	1:B:206:TRP:CG	2.48	0.49
1:C:153:LEU:HD22	1:C:162:HIS:HD1	1.78	0.49
1:C:484:ASP:O	1:C:485:PHE:C	2.55	0.49
1:C:643:VAL:O	1:C:644:VAL:CG2	2.59	0.49
1:C:655:TRP:CE3	1:D:654:LEU:HD12	2.47	0.49
1:C:665:VAL:CG2	1:D:665:VAL:HG22	2.43	0.49
1:D:654:LEU:HD23	1:D:654:LEU:C	2.38	0.49
1:E:18:LYS:NZ	1:E:33:ILE:HD12	2.27	0.49
1:E:146:LEU:HB3	1:E:207:SER:HB2	1.95	0.49
1:E:186:LEU:HD23	1:E:227:GLN:HG2	1.94	0.49
1:E:221:PRO:O	1:E:222:PHE:HB3	2.11	0.49
1:E:269:LEU:HD22	1:E:272:LYS:HE3	1.95	0.49
1:E:368:THR:HG22	1:E:368:THR:O	2.11	0.49
1:E:588:ASN:CG	1:E:589:ASP:N	2.66	0.49
1:F:486:PHE:CE1	1:F:647:GLN:HB3	2.48	0.49
1:F:566:GLN:HG2	1:F:593:LEU:CD1	2.42	0.49
1:G:594:LEU:O	1:G:598:ILE:HG13	2.13	0.49
1:H:249:LEU:HD23	1:H:253:VAL:H	1.77	0.49
1:H:390:PHE:CZ	1:H:612:LEU:HD11	2.48	0.49
1:A:269:LEU:C	1:A:271:GLY:N	2.68	0.49
1:A:492:ILE:HG23	1:B:651:GLN:HE22	1.77	0.49
1:C:118:LYS:HD3	1:C:265:LEU:HA	1.94	0.49
1:C:118:LYS:CD	1:C:265:LEU:HA	2.42	0.49
1:C:216:ILE:HG21	1:C:273:LEU:HD12	1.95	0.49
1:C:423:TYR:O	1:C:425:HIS:N	2.45	0.49
1:C:654:LEU:HD23	1:C:654:LEU:C	2.38	0.49
1:D:322:VAL:CG1	1:D:323:HIS:H	2.17	0.49
1:D:418:LYS:O	1:D:419:ARG:CB	2.61	0.49
1:D:497:TYR:O	1:D:497:TYR:HD2	1.85	0.49
1:E:660:ILE:O	1:E:662:CYS:N	2.45	0.49
1:F:493:ASP:HB3	1:F:514:TRP:CZ3	2.48	0.49
1:G:438:ARG:HH11	1:G:568:ARG:HH21	1.57	0.49
1:G:531:GLN:HA	1:G:534:VAL:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:263:ASN:HD21	1:H:265:LEU:N	2.09	0.49
1:B:222:PHE:HD2	1:B:224:PRO:HD2	1.78	0.49
1:B:341:GLN:O	1:B:345:GLY:N	2.45	0.49
1:B:434:TRP:CE3	1:B:568:ARG:CA	2.68	0.49
1:B:583:THR:HB	1:B:584:PRO:CD	2.43	0.49
1:B:644:VAL:HA	1:B:647:GLN:NE2	2.19	0.49
1:B:653:GLU:HA	1:B:656:ASN:HB3	1.95	0.49
1:C:534:VAL:CG1	1:C:535:ASP:N	2.75	0.49
1:E:270:ALA:HB1	1:E:274:GLU:OE2	2.13	0.49
1:E:469:LYS:NZ	1:E:630:LYS:HE2	2.28	0.49
1:E:529:GLU:O	1:E:533:LEU:HG	2.13	0.49
1:E:531:GLN:O	1:E:535:ASP:HB3	2.13	0.49
1:G:422:THR:HB	1:G:585:GLY:CA	2.42	0.49
1:B:308:SER:O	1:B:309:LEU:HB2	2.12	0.48
1:B:368:THR:HG22	1:B:368:THR:O	2.12	0.48
1:B:478:GLN:HG3	1:B:479:LEU:N	2.27	0.48
1:B:529:GLU:O	1:B:533:LEU:HG	2.12	0.48
1:B:534:VAL:CG1	1:B:535:ASP:N	2.75	0.48
1:B:642:ILE:C	1:B:644:VAL:H	2.21	0.48
1:C:42:ALA:HB3	1:C:96:MET:HB2	1.95	0.48
1:C:281:LEU:O	1:C:282:MET:HG2	2.12	0.48
1:C:284:HIS:NE2	1:E:342:GLN:CD	2.71	0.48
1:D:249:LEU:HD23	1:D:253:VAL:H	1.78	0.48
1:D:527:GLU:HG2	1:D:530:VAL:HG13	1.95	0.48
1:E:234:LYS:O	1:E:235:VAL:O	2.31	0.48
1:E:651:GLN:NE2	1:F:492:ILE:HG21	2.26	0.48
1:F:119:GLU:HB2	1:F:121:PRO:CB	2.43	0.48
1:F:249:LEU:HA	1:F:253:VAL:O	2.13	0.48
1:H:220:ARG:NH1	1:H:223:LEU:CD2	2.70	0.48
1:H:350:GLU:OE2	1:H:391:ASP:O	2.30	0.48
1:H:534:VAL:CG1	1:H:535:ASP:N	2.76	0.48
1:A:16:GLU:HG2	1:A:83:LEU:CD1	2.43	0.48
1:A:210:THR:O	1:A:211:LEU:C	2.57	0.48
1:A:441:LYS:HB2	1:A:560:LEU:HD22	1.93	0.48
1:B:18:LYS:NZ	1:B:33:ILE:HD12	2.27	0.48
1:C:120:GLY:N	1:C:122:ILE:H	2.11	0.48
1:C:387:ILE:HD12	1:C:450:GLY:CA	2.44	0.48
1:C:531:GLN:O	1:C:535:ASP:HB3	2.13	0.48
1:E:300:PHE:O	1:E:301:GLN:C	2.55	0.48
1:E:482:LYS:C	1:E:484:ASP:N	2.71	0.48
1:E:517:MET:SD	1:E:650:ARG:HG3	2.52	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:212:ALA:O	1:F:213:PHE:C	2.56	0.48
1:F:272:LYS:HG2	1:F:273:LEU:CA	2.41	0.48
1:F:300:PHE:O	1:F:301:GLN:C	2.56	0.48
1:G:113:ASN:HA	1:G:116:GLY:O	2.12	0.48
1:H:444:CYS:O	1:H:446:ARG:N	2.46	0.48
1:H:529:GLU:O	1:H:533:LEU:HG	2.12	0.48
1:A:191:PRO:HG3	1:A:234:LYS:HZ3	1.78	0.48
1:B:440:LEU:HD12	1:B:597:ALA:O	2.14	0.48
1:B:633:MET:SD	1:B:633:MET:N	2.86	0.48
1:C:220:ARG:NH1	1:C:223:LEU:CD2	2.71	0.48
1:C:226:TRP:CG	1:C:227:GLN:N	2.62	0.48
1:C:341:GLN:O	1:C:345:GLY:N	2.47	0.48
1:C:646:ARG:C	1:C:647:GLN:CD	2.80	0.48
1:E:198:LYS:C	1:E:200:THR:N	2.68	0.48
1:E:373:ASP:OD1	1:E:374:CYS:N	2.46	0.48
1:E:492:ILE:HG21	1:F:651:GLN:NE2	2.27	0.48
1:E:545:VAL:HA	1:E:548:GLN:HG2	1.95	0.48
1:E:654:LEU:HD23	1:F:654:LEU:HD21	1.85	0.48
1:G:216:ILE:HG21	1:G:273:LEU:HD12	1.96	0.48
1:G:359:LEU:CA	1:G:460:ARG:NH1	2.71	0.48
1:G:362:ASN:C	1:G:364:ALA:N	2.71	0.48
1:G:389:LEU:HD12	1:G:389:LEU:N	2.28	0.48
1:H:137:HIS:ND1	1:H:201:VAL:HG13	2.28	0.48
1:H:590:MET:HE1	1:H:593:LEU:HD12	1.94	0.48
1:A:430:TRP:HB3	1:A:571:TYR:CD2	2.40	0.48
1:B:118:LYS:NZ	1:B:123:ARG:HH12	2.11	0.48
1:B:270:ALA:HB1	1:B:274:GLU:OE2	2.13	0.48
1:B:517:MET:CE	1:B:650:ARG:HG3	2.43	0.48
1:C:30:LEU:HB2	1:C:43:ILE:HB	1.96	0.48
1:C:386:LEU:HD12	1:C:386:LEU:N	2.29	0.48
1:D:133:LEU:O	1:D:134:ARG:C	2.56	0.48
1:D:216:ILE:HG21	1:D:273:LEU:HD12	1.94	0.48
1:D:642:ILE:C	1:D:644:VAL:H	2.20	0.48
1:D:653:GLU:HA	1:D:656:ASN:HB3	1.95	0.48
1:E:119:GLU:HB2	1:E:121:PRO:CB	2.43	0.48
1:E:226:TRP:HB3	1:E:229:VAL:CG2	2.43	0.48
1:E:422:THR:HG22	1:E:426:LEU:HD11	1.96	0.48
1:E:583:THR:HB	1:E:584:PRO:CD	2.43	0.48
1:F:480:LYS:HZ2	1:F:527:GLU:HB2	1.75	0.48
1:G:116:GLY:HA3	1:G:216:ILE:O	2.14	0.48
1:G:402:SER:HB3	1:G:609:TYR:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:472:MET:HG2	1:G:633:MET:CB	2.40	0.48
1:H:286:ARG:O	1:H:290:THR:HG21	2.13	0.48
1:A:418:LYS:HB3	1:A:420:PRO:HD3	1.95	0.48
1:A:451:GLN:CD	1:A:611:GLN:NE2	2.71	0.48
1:A:658:LEU:HA	1:B:658:LEU:HD12	1.95	0.48
1:B:144:ARG:HD2	1:B:171:LYS:HB3	1.95	0.48
1:B:437:ILE:HG22	1:B:564:GLU:HB2	1.96	0.48
1:B:580:ASP:HA	1:B:582:ARG:HH11	1.77	0.48
1:C:249:LEU:HD23	1:C:253:VAL:H	1.78	0.48
1:C:485:PHE:CD1	1:D:485:PHE:CE1	3.02	0.48
1:C:496:LYS:C	1:D:655:TRP:CZ2	2.91	0.48
1:C:647:GLN:OE1	1:C:647:GLN:HA	2.14	0.48
1:D:102:GLY:O	1:D:152:VAL:HA	2.14	0.48
1:D:409:SER:HB2	1:D:412:ILE:CD1	2.41	0.48
1:D:423:TYR:O	1:D:425:HIS:N	2.46	0.48
1:D:426:LEU:O	1:D:430:TRP:N	2.42	0.48
1:D:434:TRP:CZ3	1:D:568:ARG:CB	2.91	0.48
1:E:72:ASN:O	1:E:163:LYS:HA	2.14	0.48
1:E:313:SER:HA	1:E:324:THR:HA	1.94	0.48
1:F:269:LEU:C	1:F:271:GLY:N	2.71	0.48
1:F:285:GLN:HE21	1:F:286:ARG:HH12	1.60	0.48
1:F:418:LYS:HB3	1:F:420:PRO:HD3	1.95	0.48
1:F:484:ASP:C	1:F:486:PHE:H	2.20	0.48
1:G:449:GLN:O	1:G:450:GLY:C	2.56	0.48
1:H:281:LEU:C	1:H:282:MET:HG2	2.38	0.48
1:H:362:ASN:C	1:H:364:ALA:N	2.71	0.48
1:A:105:ARG:HG2	1:A:109:ASN:ND2	2.29	0.48
1:A:484:ASP:C	1:A:486:PHE:H	2.20	0.48
1:B:248:ASP:OD1	1:B:248:ASP:O	2.31	0.48
1:B:250:THR:C	1:B:251:GLY:O	2.54	0.48
1:B:276:TRP:CZ2	1:B:280:MET:HG3	2.49	0.48
1:B:511:LEU:HD21	1:B:515:ARG:NH2	2.29	0.48
1:B:540:LEU:CD2	1:B:621:LYS:CE	2.91	0.48
1:B:643:VAL:O	1:B:644:VAL:CG2	2.60	0.48
1:C:248:ASP:OD1	1:C:248:ASP:O	2.30	0.48
1:C:422:THR:OG1	1:C:585:GLY:C	2.56	0.48
1:D:220:ARG:HB3	1:D:221:PRO:HD2	1.95	0.48
1:D:361:LEU:HD11	1:D:386:LEU:HD23	1.96	0.48
1:D:394:LYS:HE3	1:D:609:TYR:O	2.14	0.48
1:E:130:SER:O	1:E:300:PHE:CE1	2.65	0.48
1:E:190:ALA:HB2	1:E:206:TRP:CG	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:655:TRP:CZ3	1:F:654:LEU:HD12	2.47	0.48
1:F:276:TRP:CZ2	1:F:280:MET:HG3	2.49	0.48
1:F:547:LEU:O	1:F:550:ASN:ND2	2.47	0.48
1:F:653:GLU:HA	1:F:656:ASN:HB3	1.94	0.48
1:G:18:LYS:NZ	1:G:33:ILE:HD12	2.27	0.48
1:G:118:LYS:CG	1:G:264:HIS:O	2.62	0.48
1:A:216:ILE:HG21	1:A:273:LEU:HD12	1.96	0.48
1:A:418:LYS:O	1:A:419:ARG:CB	2.61	0.48
1:B:272:LYS:O	1:B:273:LEU:C	2.56	0.48
1:B:276:TRP:CE3	1:B:277:LEU:CD2	2.96	0.48
1:B:426:LEU:HB3	1:B:430:TRP:CD1	2.49	0.48
1:B:448:LEU:HD23	1:B:608:ILE:HG12	1.95	0.48
1:C:221:PRO:O	1:C:222:PHE:HB3	2.12	0.48
1:C:387:ILE:HD12	1:C:450:GLY:N	2.28	0.48
1:C:438:ARG:HG2	1:C:564:GLU:CD	2.38	0.48
1:C:485:PHE:CE2	1:D:485:PHE:HB3	2.49	0.48
1:C:583:THR:O	1:C:584:PRO:C	2.57	0.48
1:D:430:TRP:C	1:D:571:TYR:CD2	2.92	0.48
1:D:494:LEU:HD21	1:D:518:GLU:OE2	2.14	0.48
1:E:42:ALA:HB3	1:E:96:MET:HB2	1.96	0.48
1:E:133:LEU:O	1:E:134:ARG:C	2.56	0.48
1:E:198:LYS:HG2	1:E:284:HIS:HA	1.96	0.48
1:E:220:ARG:HB3	1:E:221:PRO:HD2	1.95	0.48
1:E:322:VAL:HG21	1:E:446:ARG:HH12	1.78	0.48
1:E:418:LYS:O	1:E:419:ARG:CB	2.62	0.48
1:F:115:CYS:SG	1:F:432:GLN:HA	2.54	0.48
1:F:191:PRO:HG3	1:F:234:LYS:HZ3	1.77	0.48
1:F:435:GLN:O	1:F:439:ALA:N	2.46	0.48
1:F:637:ARG:O	1:F:641:LYS:HB2	2.12	0.48
1:G:272:LYS:HG2	1:G:273:LEU:CA	2.44	0.48
1:H:107:TYR:O	1:H:110:GLN:HB2	2.13	0.48
1:H:300:PHE:O	1:H:301:GLN:C	2.57	0.48
1:H:438:ARG:HH11	1:H:568:ARG:HH21	1.59	0.48
1:A:479:LEU:HD12	1:A:640:GLU:CB	2.26	0.48
1:A:655:TRP:CH2	1:B:497:TYR:HB2	2.48	0.48
1:B:269:LEU:HD22	1:B:272:LYS:HE3	1.96	0.48
1:B:650:ARG:HD3	1:B:650:ARG:HA	1.64	0.48
1:C:285:GLN:HE21	1:C:286:ARG:HH12	1.62	0.48
1:C:339:TRP:HA	1:C:342:GLN:CB	2.37	0.48
1:C:642:ILE:C	1:C:644:VAL:H	2.21	0.48
1:D:272:LYS:HG2	1:D:273:LEU:CA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:500:GLN:HB3	1:D:505:ILE:CG1	2.44	0.48
1:D:503:PHE:C	1:D:505:ILE:H	2.21	0.48
1:D:547:LEU:O	1:D:550:ASN:ND2	2.46	0.48
1:E:569:ASP:HB3	1:E:573:ARG:HD3	1.95	0.48
1:E:614:LYS:O	1:E:617:VAL:HB	2.13	0.48
1:E:642:ILE:C	1:E:644:VAL:H	2.22	0.48
1:F:285:GLN:O	1:F:285:GLN:HG2	2.13	0.48
1:H:616:VAL:HG13	1:H:619:LYS:HD2	1.95	0.48
1:A:119:GLU:HB3	1:A:121:PRO:CD	2.44	0.48
1:A:513:ALA:HB1	1:A:650:ARG:NH1	2.26	0.48
1:A:536:LYS:HD3	1:A:625:LEU:HD22	1.95	0.48
1:B:433:ILE:CB	1:B:571:TYR:OH	2.61	0.48
1:B:480:LYS:HE2	1:B:640:GLU:OE1	2.13	0.48
1:B:501:MET:C	1:B:505:ILE:CD1	2.87	0.48
1:B:570:LEU:HD23	1:B:590:MET:HE2	1.95	0.48
1:C:486:PHE:HZ	1:C:517:MET:HE2	1.78	0.48
1:D:120:GLY:N	1:D:122:ILE:H	2.07	0.48
1:D:437:ILE:HG22	1:D:564:GLU:HB2	1.94	0.48
1:E:105:ARG:HG2	1:E:109:ASN:ND2	2.29	0.48
1:E:327:VAL:CG1	1:E:367:LEU:HB2	2.36	0.48
1:E:643:VAL:O	1:E:644:VAL:CG2	2.61	0.48
1:E:650:ARG:HD3	1:E:650:ARG:HA	1.63	0.48
1:E:654:LEU:HD11	1:F:655:TRP:HE3	1.60	0.48
1:F:118:LYS:NZ	1:F:123:ARG:HH12	2.10	0.48
1:F:473:THR:CG2	1:F:533:LEU:CD2	2.80	0.48
1:F:650:ARG:HD3	1:F:650:ARG:HA	1.66	0.48
1:H:84:GLN:HB3	1:H:85:LYS:H	1.50	0.48
1:H:437:ILE:HG22	1:H:564:GLU:CB	2.43	0.48
1:A:389:LEU:N	1:A:389:LEU:HD12	2.29	0.48
1:B:16:GLU:HG2	1:B:83:LEU:CD1	2.44	0.48
1:B:362:ASN:C	1:B:364:ALA:N	2.71	0.48
1:B:412:ILE:HG12	1:B:433:ILE:CD1	2.44	0.48
1:B:423:TYR:O	1:B:425:HIS:N	2.47	0.48
1:B:570:LEU:CD2	1:B:590:MET:HE2	2.44	0.48
1:C:500:GLN:HE22	1:D:659:LYS:HG2	1.78	0.48
1:C:594:LEU:O	1:C:598:ILE:HG13	2.14	0.48
1:D:124:THR:OG1	1:D:162:HIS:HE1	1.97	0.48
1:D:286:ARG:O	1:D:290:THR:HG21	2.13	0.48
1:D:300:PHE:O	1:D:301:GLN:C	2.57	0.48
1:E:125:LEU:HD21	1:E:215:CYS:SG	2.54	0.48
1:E:248:ASP:OD1	1:E:248:ASP:O	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:665:VAL:HG21	1:F:665:VAL:CG2	2.40	0.48
1:F:16:GLU:HG2	1:F:83:LEU:CD1	2.44	0.48
1:G:42:ALA:HB3	1:G:96:MET:HB2	1.96	0.48
1:G:386:LEU:HD12	1:G:386:LEU:N	2.27	0.48
1:H:426:LEU:HB3	1:H:430:TRP:CD1	2.49	0.48
1:A:249:LEU:HB3	1:A:250:THR:H	1.39	0.47
1:A:430:TRP:CZ3	1:A:574:LEU:HD13	2.49	0.47
1:B:191:PRO:HG3	1:B:234:LYS:HZ2	1.78	0.47
1:B:249:LEU:HD23	1:B:253:VAL:H	1.77	0.47
1:B:649:LYS:HA	1:B:652:GLN:HB2	1.94	0.47
1:C:105:ARG:HG3	1:C:105:ARG:NH1	2.29	0.47
1:C:651:GLN:O	1:C:652:GLN:C	2.57	0.47
1:C:658:LEU:HA	1:D:658:LEU:CD1	2.44	0.47
1:D:119:GLU:HB3	1:D:121:PRO:CD	2.39	0.47
1:E:315:MET:HE3	1:E:447:LEU:HD23	1.96	0.47
1:E:500:GLN:C	1:E:505:ILE:HG12	2.38	0.47
1:F:511:LEU:HG	1:F:515:ARG:CZ	2.43	0.47
1:H:130:SER:O	1:H:300:PHE:CE1	2.66	0.47
1:H:394:LYS:CD	1:H:401:ILE:HA	2.44	0.47
1:H:434:TRP:CB	1:H:571:TYR:CD1	2.80	0.47
1:H:449:GLN:O	1:H:450:GLY:C	2.57	0.47
1:A:260:PRO:CD	1:A:274:GLU:HG2	2.44	0.47
1:A:272:LYS:HG2	1:A:273:LEU:CA	2.44	0.47
1:A:386:LEU:HD12	1:A:386:LEU:N	2.28	0.47
1:A:423:TYR:O	1:A:425:HIS:N	2.47	0.47
1:A:529:GLU:O	1:A:533:LEU:HG	2.14	0.47
1:B:254:LYS:N	1:B:255:PHE:CE1	2.82	0.47
1:B:272:LYS:HG2	1:B:273:LEU:CA	2.43	0.47
1:B:402:SER:O	1:B:403:LEU:CB	2.61	0.47
1:B:545:VAL:HA	1:B:548:GLN:HG2	1.96	0.47
1:C:297:VAL:HG23	1:C:301:GLN:HE21	1.80	0.47
1:C:389:LEU:N	1:C:389:LEU:HD12	2.29	0.47
1:D:449:GLN:NE2	1:D:453:THR:HG22	2.29	0.47
1:E:530:VAL:CA	1:E:533:LEU:HD12	2.30	0.47
1:F:260:PRO:HB3	1:F:273:LEU:HD22	1.96	0.47
1:F:263:ASN:HD21	1:F:265:LEU:H	1.62	0.47
1:F:423:TYR:O	1:F:425:HIS:N	2.47	0.47
1:F:426:LEU:O	1:F:430:TRP:N	2.41	0.47
1:F:590:MET:HE1	1:F:593:LEU:HD12	1.96	0.47
1:H:18:LYS:NZ	1:H:33:ILE:HD12	2.26	0.47
1:H:341:GLN:O	1:H:345:GLY:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:571:TYR:OH	1:H:590:MET:SD	2.72	0.47
1:H:580:ASP:HA	1:H:582:ARG:HH11	1.76	0.47
1:H:583:THR:HB	1:H:584:PRO:CD	2.44	0.47
1:A:503:PHE:CE1	1:B:666:ARG:HG3	2.45	0.47
1:A:545:VAL:HA	1:A:548:GLN:HG2	1.96	0.47
1:B:222:PHE:CE2	1:B:224:PRO:O	2.67	0.47
1:B:435:GLN:O	1:B:439:ALA:N	2.46	0.47
1:C:563:LEU:HD23	1:C:597:ALA:HB2	1.96	0.47
1:D:171:LYS:O	1:D:171:LYS:CG	2.59	0.47
1:D:260:PRO:CD	1:D:274:GLU:HG2	2.44	0.47
1:D:272:LYS:O	1:D:273:LEU:C	2.57	0.47
1:D:451:GLN:NE2	1:D:608:ILE:O	2.47	0.47
1:D:501:MET:C	1:D:505:ILE:HD11	2.38	0.47
1:E:296:ASN:CG	1:E:297:VAL:N	2.72	0.47
1:E:322:VAL:CG1	1:E:323:HIS:H	2.21	0.47
1:E:469:LYS:NZ	1:E:630:LYS:CE	2.77	0.47
1:E:484:ASP:C	1:E:486:PHE:H	2.22	0.47
1:F:430:TRP:HZ2	1:F:586:ASP:O	1.97	0.47
1:F:511:LEU:HD21	1:F:515:ARG:NH2	2.29	0.47
1:G:248:ASP:OD1	1:G:248:ASP:O	2.32	0.47
1:G:390:PHE:N	1:G:390:PHE:CD1	2.83	0.47
1:G:430:TRP:O	1:G:431:GLY:C	2.57	0.47
1:G:545:VAL:HA	1:G:548:GLN:HG2	1.96	0.47
1:H:253:VAL:HB	1:H:255:PHE:CE1	2.50	0.47
1:H:418:LYS:HB3	1:H:420:PRO:HD3	1.95	0.47
1:H:429:VAL:O	1:H:433:ILE:HG12	2.13	0.47
1:H:430:TRP:HB3	1:H:571:TYR:CD2	2.42	0.47
1:H:533:LEU:CD2	1:H:633:MET:HE3	2.44	0.47
1:A:102:GLY:O	1:A:152:VAL:HA	2.14	0.47
1:A:116:GLY:CA	1:A:217:THR:O	2.62	0.47
1:A:198:LYS:C	1:A:200:THR:N	2.73	0.47
1:A:276:TRP:CZ2	1:A:280:MET:HG3	2.49	0.47
1:A:362:ASN:C	1:A:364:ALA:N	2.72	0.47
1:A:511:LEU:HG	1:A:515:ARG:CZ	2.44	0.47
1:B:105:ARG:HG2	1:B:109:ASN:ND2	2.30	0.47
1:B:119:GLU:HB2	1:B:121:PRO:HB2	1.95	0.47
1:B:125:LEU:CA	1:B:162:HIS:NE2	2.70	0.47
1:C:16:GLU:HG2	1:C:83:LEU:CD1	2.43	0.47
1:C:102:GLY:O	1:C:152:VAL:HA	2.14	0.47
1:C:186:LEU:C	1:C:188:TYR:H	2.23	0.47
1:C:247:ASP:HB3	1:C:248:ASP:H	1.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:362:ASN:C	1:C:364:ALA:N	2.71	0.47
1:C:441:LYS:HB2	1:C:560:LEU:HD22	1.96	0.47
1:C:642:ILE:HG12	1:C:645:ARG:NH1	2.29	0.47
1:D:418:LYS:HB3	1:D:420:PRO:HD3	1.97	0.47
1:D:530:VAL:CA	1:D:533:LEU:HD12	2.30	0.47
1:D:583:THR:HB	1:D:584:PRO:CD	2.44	0.47
1:E:281:LEU:O	1:E:282:MET:HG2	2.14	0.47
1:E:436:THR:O	1:E:440:LEU:HG	2.14	0.47
1:F:30:LEU:HB2	1:F:43:ILE:HB	1.95	0.47
1:F:165:ILE:HG12	1:F:166:ASP:H	1.78	0.47
1:F:229:VAL:CG1	1:G:229:VAL:HG13	2.27	0.47
1:F:389:LEU:CD2	1:F:612:LEU:HD21	2.45	0.47
1:F:475:GLU:CD	1:F:636:MET:HE1	2.40	0.47
1:G:189:LEU:HA	1:G:189:LEU:HD12	1.66	0.47
1:G:281:LEU:C	1:G:282:MET:HG2	2.40	0.47
1:H:412:ILE:O	1:H:415:GLN:HB2	2.15	0.47
1:H:438:ARG:HG2	1:H:564:GLU:OE1	2.14	0.47
1:A:117:LEU:O	1:A:122:ILE:HD11	2.14	0.47
1:B:30:LEU:HB2	1:B:43:ILE:HB	1.96	0.47
1:B:121:PRO:HA	1:B:124:THR:OG1	2.14	0.47
1:B:540:LEU:HD22	1:B:621:LYS:CE	2.44	0.47
1:C:222:PHE:CE2	1:C:224:PRO:O	2.66	0.47
1:C:402:SER:O	1:C:403:LEU:CB	2.62	0.47
1:C:410:VAL:O	1:C:411:SER:C	2.57	0.47
1:D:386:LEU:HD12	1:D:386:LEU:N	2.27	0.47
1:E:113:ASN:HA	1:E:116:GLY:O	2.13	0.47
1:E:362:ASN:C	1:E:364:ALA:N	2.72	0.47
1:E:588:ASN:OD1	1:E:589:ASP:N	2.47	0.47
1:F:451:GLN:CD	1:F:611:GLN:NE2	2.72	0.47
1:G:144:ARG:HD2	1:G:171:LYS:HB3	1.96	0.47
1:G:426:LEU:O	1:G:430:TRP:N	2.43	0.47
1:G:438:ARG:HG2	1:G:564:GLU:HG3	1.96	0.47
1:H:74:VAL:HG21	1:H:165:ILE:HA	1.96	0.47
1:H:222:PHE:CE2	1:H:224:PRO:O	2.67	0.47
1:H:339:TRP:HA	1:H:342:GLN:CB	2.36	0.47
1:A:189:LEU:HD12	1:A:207:SER:HB3	1.95	0.47
1:B:210:THR:O	1:B:211:LEU:C	2.58	0.47
1:B:220:ARG:HB3	1:B:221:PRO:HD2	1.97	0.47
1:B:357:SER:HB3	1:B:453:THR:HB	1.97	0.47
1:C:226:TRP:HB3	1:C:229:VAL:CG2	2.43	0.47
1:C:270:ALA:HB1	1:C:274:GLU:OE2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:583:THR:O	1:D:584:PRO:C	2.57	0.47
1:E:286:ARG:O	1:E:290:THR:HG21	2.14	0.47
1:E:297:VAL:HG23	1:E:301:GLN:HE21	1.79	0.47
1:E:309:LEU:C	1:E:310:LYS:HG3	2.39	0.47
1:E:429:VAL:O	1:E:433:ILE:HG12	2.15	0.47
1:F:144:ARG:HD2	1:F:171:LYS:HB3	1.95	0.47
1:G:438:ARG:HG2	1:G:564:GLU:OE1	2.15	0.47
1:G:583:THR:O	1:G:584:PRO:C	2.58	0.47
1:H:190:ALA:O	1:H:191:PRO:C	2.58	0.47
1:H:386:LEU:HD12	1:H:386:LEU:N	2.29	0.47
1:H:451:GLN:OE1	1:H:611:GLN:NE2	2.44	0.47
1:A:189:LEU:HD12	1:A:189:LEU:HA	1.65	0.47
1:A:300:PHE:O	1:A:301:GLN:C	2.56	0.47
1:A:583:THR:O	1:A:584:PRO:C	2.58	0.47
1:A:660:ILE:C	1:A:662:CYS:N	2.65	0.47
1:B:249:LEU:HB3	1:B:250:THR:H	1.38	0.47
1:B:322:VAL:CG1	1:B:323:HIS:H	2.22	0.47
1:B:410:VAL:O	1:B:411:SER:C	2.58	0.47
1:B:418:LYS:HB3	1:B:420:PRO:HD3	1.96	0.47
1:B:444:CYS:O	1:B:446:ARG:N	2.47	0.47
1:C:144:ARG:HD2	1:C:171:LYS:HB3	1.97	0.47
1:C:434:TRP:CZ3	1:C:568:ARG:HG3	2.46	0.47
1:C:494:LEU:CD2	1:C:518:GLU:OE2	2.63	0.47
1:C:659:LYS:CG	1:D:500:GLN:HE22	2.26	0.47
1:D:248:ASP:OD1	1:D:248:ASP:O	2.33	0.47
1:D:350:GLU:CG	1:D:391:ASP:HB2	2.44	0.47
1:D:484:ASP:O	1:D:485:PHE:C	2.58	0.47
1:D:647:GLN:OE1	1:D:647:GLN:HA	2.15	0.47
1:E:16:GLU:HG2	1:E:83:LEU:CD1	2.44	0.47
1:E:17:MET:HE1	1:E:80:PRO:HG2	1.97	0.47
1:E:30:LEU:HB2	1:E:43:ILE:HB	1.96	0.47
1:E:285:GLN:HE21	1:E:286:ARG:HH12	1.62	0.47
1:E:341:GLN:O	1:E:345:GLY:N	2.48	0.47
1:E:361:LEU:HD11	1:E:386:LEU:HD23	1.96	0.47
1:E:386:LEU:HD12	1:E:386:LEU:N	2.27	0.47
1:E:419:ARG:HA	1:E:587:SER:CB	2.45	0.47
1:F:373:ASP:OD1	1:F:374:CYS:N	2.47	0.47
1:F:583:THR:O	1:F:584:PRO:C	2.58	0.47
1:F:633:MET:SD	1:F:633:MET:N	2.87	0.47
1:G:72:ASN:O	1:G:164:ILE:HG22	2.15	0.47
1:G:153:LEU:HD23	1:G:162:HIS:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:186:LEU:C	1:G:188:TYR:H	2.22	0.47
1:G:221:PRO:O	1:G:222:PHE:HB3	2.14	0.47
1:G:269:LEU:C	1:G:271:GLY:N	2.71	0.47
1:G:276:TRP:CE3	1:G:277:LEU:CD2	2.98	0.47
1:G:402:SER:O	1:G:403:LEU:CB	2.63	0.47
1:H:64:ILE:HG12	1:H:172:GLU:OE1	2.15	0.47
1:H:72:ASN:H	1:H:163:LYS:HE2	1.79	0.47
1:H:121:PRO:HA	1:H:124:THR:OG1	2.15	0.47
1:H:270:ALA:HB1	1:H:274:GLU:OE2	2.14	0.47
1:H:285:GLN:HG2	1:H:285:GLN:O	2.15	0.47
1:H:531:GLN:O	1:H:535:ASP:HB3	2.13	0.47
1:A:30:LEU:HB2	1:A:43:ILE:HB	1.96	0.47
1:A:115:CYS:SG	1:A:432:GLN:HA	2.54	0.47
1:A:249:LEU:HD23	1:A:253:VAL:H	1.80	0.47
1:B:117:LEU:O	1:B:122:ILE:HD11	2.15	0.47
1:C:297:VAL:HG23	1:C:301:GLN:NE2	2.30	0.47
1:C:430:TRP:O	1:C:431:GLY:C	2.58	0.47
1:C:500:GLN:HB3	1:C:505:ILE:CG1	2.44	0.47
1:D:373:ASP:OD1	1:D:374:CYS:N	2.48	0.47
1:D:447:LEU:HD13	1:D:609:TYR:HE1	1.80	0.47
1:E:418:LYS:HB3	1:E:420:PRO:HD3	1.96	0.47
1:E:660:ILE:C	1:E:662:CYS:N	2.68	0.47
1:F:186:LEU:C	1:F:188:TYR:H	2.22	0.47
1:F:193:LEU:CB	1:F:196:GLN:HE22	2.24	0.47
1:F:594:LEU:O	1:F:598:ILE:HG13	2.14	0.47
1:G:105:ARG:HG2	1:G:109:ASN:ND2	2.29	0.47
1:G:119:GLU:HB2	1:G:121:PRO:CB	2.45	0.47
1:G:210:THR:O	1:G:211:LEU:C	2.58	0.47
1:G:359:LEU:N	1:G:460:ARG:NH1	2.62	0.47
1:G:418:LYS:O	1:G:419:ARG:CB	2.62	0.47
1:H:189:LEU:HD12	1:H:189:LEU:HA	1.68	0.47
1:H:402:SER:O	1:H:403:LEU:CB	2.62	0.47
1:H:433:ILE:CB	1:H:571:TYR:OH	2.63	0.47
1:H:536:LYS:HB3	1:H:625:LEU:CD2	2.44	0.47
1:A:42:ALA:HB3	1:A:96:MET:HB2	1.96	0.47
1:A:115:CYS:CB	1:A:435:GLN:HG3	2.45	0.47
1:B:17:MET:HE1	1:B:80:PRO:HG2	1.97	0.47
1:B:486:PHE:CE1	1:B:647:GLN:HB3	2.50	0.47
1:B:564:GLU:OE2	1:B:568:ARG:NH2	2.47	0.47
1:C:130:SER:O	1:C:300:PHE:CE1	2.68	0.47
1:C:646:ARG:C	1:C:647:GLN:OE1	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:479:LEU:O	1:D:640:GLU:OE2	2.32	0.47
1:E:222:PHE:CE2	1:E:224:PRO:O	2.68	0.47
1:E:387:ILE:HD11	1:E:449:GLN:HB3	1.96	0.47
1:F:286:ARG:O	1:F:290:THR:HG21	2.14	0.47
1:F:588:ASN:OD1	1:F:589:ASP:N	2.47	0.47
1:G:373:ASP:OD1	1:G:374:CYS:N	2.48	0.47
1:H:198:LYS:C	1:H:200:THR:H	2.23	0.47
1:H:276:TRP:CZ2	1:H:280:MET:HG3	2.50	0.47
1:H:368:THR:HG22	1:H:368:THR:O	2.14	0.47
1:H:594:LEU:O	1:H:598:ILE:HG13	2.15	0.47
1:A:110:GLN:O	1:A:111:PHE:CB	2.36	0.47
1:A:216:ILE:HG21	1:A:273:LEU:CD1	2.45	0.47
1:A:319:SER:OG	1:A:403:LEU:HB2	2.14	0.47
1:A:422:THR:HG22	1:A:426:LEU:HD11	1.96	0.47
1:A:590:MET:HE1	1:A:593:LEU:HD12	1.96	0.47
1:A:642:ILE:C	1:A:644:VAL:H	2.22	0.47
1:B:102:GLY:O	1:B:152:VAL:HA	2.14	0.47
1:B:120:GLY:CA	1:B:123:ARG:HB2	2.44	0.47
1:C:213:PHE:O	1:C:214:GLU:C	2.58	0.47
1:C:269:LEU:C	1:C:271:GLY:N	2.68	0.47
1:C:300:PHE:O	1:C:301:GLN:C	2.55	0.47
1:C:644:VAL:HA	1:C:647:GLN:NE2	2.19	0.47
1:C:654:LEU:CD1	1:D:655:TRP:CZ3	2.98	0.47
1:D:545:VAL:HA	1:D:548:GLN:HG2	1.97	0.47
1:D:651:GLN:O	1:D:652:GLN:C	2.57	0.47
1:F:213:PHE:HD2	1:F:214:GLU:N	2.13	0.47
1:F:386:LEU:HD12	1:F:386:LEU:N	2.28	0.47
1:F:387:ILE:HD12	1:F:450:GLY:N	2.27	0.47
1:F:430:TRP:O	1:F:431:GLY:C	2.58	0.47
1:F:583:THR:HB	1:F:584:PRO:CD	2.44	0.47
1:G:30:LEU:HB2	1:G:43:ILE:HB	1.95	0.47
1:G:216:ILE:HG21	1:G:273:LEU:CD1	2.45	0.47
1:G:260:PRO:CD	1:G:274:GLU:HG2	2.45	0.47
1:G:387:ILE:HD12	1:G:450:GLY:CA	2.44	0.47
1:G:419:ARG:HA	1:G:587:SER:CB	2.45	0.47
1:G:423:TYR:O	1:G:425:HIS:N	2.48	0.47
1:G:449:GLN:NE2	1:G:453:THR:CG2	2.78	0.47
1:H:30:LEU:HB2	1:H:43:ILE:HB	1.97	0.47
1:H:276:TRP:CE3	1:H:277:LEU:CD2	2.98	0.47
1:H:418:LYS:O	1:H:419:ARG:CB	2.61	0.47
1:H:530:VAL:CA	1:H:533:LEU:HD12	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:PHE:N	1:A:390:PHE:CD1	2.83	0.46
1:A:651:GLN:O	1:A:652:GLN:C	2.57	0.46
1:B:118:LYS:HD3	1:B:265:LEU:HD12	1.98	0.46
1:B:119:GLU:HB2	1:B:121:PRO:CB	2.45	0.46
1:B:583:THR:O	1:B:584:PRO:C	2.58	0.46
1:C:517:MET:HE3	1:C:647:GLN:OE1	2.15	0.46
1:D:327:VAL:CG1	1:D:367:LEU:HB2	2.34	0.46
1:D:389:LEU:N	1:D:389:LEU:HD12	2.30	0.46
1:D:511:LEU:HG	1:D:515:ARG:CZ	2.45	0.46
1:E:291:ASP:HA	1:E:292:PRO:HD3	1.82	0.46
1:F:189:LEU:CG	1:F:190:ALA:N	2.66	0.46
1:F:272:LYS:O	1:F:273:LEU:C	2.58	0.46
1:F:296:ASN:ND2	1:F:302:ALA:HB2	2.30	0.46
1:F:402:SER:O	1:F:403:LEU:CB	2.62	0.46
1:F:430:TRP:CZ3	1:F:574:LEU:HD13	2.51	0.46
1:F:478:GLN:O	1:F:482:LYS:HB3	2.16	0.46
1:G:213:PHE:O	1:G:214:GLU:C	2.58	0.46
1:H:111:PHE:CE2	1:H:572:ARG:HG3	2.47	0.46
1:H:153:LEU:HD22	1:H:162:HIS:HD1	1.80	0.46
1:H:222:PHE:HD2	1:H:224:PRO:HD2	1.80	0.46
1:H:389:LEU:HD12	1:H:389:LEU:N	2.30	0.46
1:A:231:TRP:HZ3	1:D:232:HIS:NE2	2.14	0.46
1:A:394:LYS:HG3	1:A:613:SER:HB2	1.96	0.46
1:B:386:LEU:HD12	1:B:386:LEU:N	2.30	0.46
1:C:357:SER:CB	1:C:453:THR:HB	2.41	0.46
1:D:30:LEU:HB2	1:D:43:ILE:HB	1.97	0.46
1:D:118:LYS:HB3	1:D:264:HIS:CD2	2.50	0.46
1:D:144:ARG:HD2	1:D:171:LYS:HB3	1.97	0.46
1:D:390:PHE:N	1:D:390:PHE:CD1	2.84	0.46
1:E:125:LEU:CA	1:E:162:HIS:NE2	2.72	0.46
1:F:17:MET:HE1	1:F:80:PRO:HG2	1.96	0.46
1:F:130:SER:O	1:F:300:PHE:CE1	2.68	0.46
1:G:102:GLY:O	1:G:152:VAL:HA	2.16	0.46
1:G:189:LEU:HD12	1:G:207:SER:HB3	1.97	0.46
1:G:296:ASN:ND2	1:G:302:ALA:HB2	2.31	0.46
1:H:221:PRO:O	1:H:222:PHE:HB3	2.15	0.46
1:A:226:TRP:CG	1:A:227:GLN:N	2.65	0.46
1:A:447:LEU:HD13	1:A:609:TYR:CE1	2.50	0.46
1:A:540:LEU:HD12	1:A:622:ALA:HB2	1.93	0.46
1:A:643:VAL:O	1:A:644:VAL:CG2	2.62	0.46
1:A:646:ARG:C	1:A:647:GLN:CD	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:115:CYS:O	1:B:263:ASN:HA	2.15	0.46
1:B:390:PHE:N	1:B:390:PHE:CD1	2.83	0.46
1:B:430:TRP:O	1:B:431:GLY:C	2.58	0.46
1:B:434:TRP:O	1:B:435:GLN:C	2.55	0.46
1:B:467:LYS:HD3	1:B:467:LYS:HA	1.75	0.46
1:B:646:ARG:C	1:B:647:GLN:CD	2.83	0.46
1:C:109:ASN:O	1:C:110:GLN:C	2.58	0.46
1:D:422:THR:HG22	1:D:426:LEU:HD11	1.97	0.46
1:D:478:GLN:O	1:D:482:LYS:HB3	2.15	0.46
1:D:643:VAL:O	1:D:644:VAL:CG2	2.62	0.46
1:E:190:ALA:O	1:E:191:PRO:C	2.58	0.46
1:E:594:LEU:O	1:E:598:ILE:HG13	2.15	0.46
1:E:646:ARG:C	1:E:647:GLN:CD	2.83	0.46
1:F:133:LEU:O	1:F:134:ARG:C	2.57	0.46
1:F:390:PHE:N	1:F:390:PHE:CD1	2.83	0.46
1:F:416:ASP:OD1	1:F:416:ASP:N	2.39	0.46
1:G:281:LEU:O	1:G:282:MET:HG2	2.15	0.46
1:G:412:ILE:O	1:G:415:GLN:HB2	2.15	0.46
1:H:234:LYS:O	1:H:235:VAL:O	2.33	0.46
1:H:357:SER:HB3	1:H:453:THR:HA	1.97	0.46
1:A:118:LYS:CB	1:A:264:HIS:O	2.64	0.46
1:A:272:LYS:O	1:A:273:LEU:C	2.58	0.46
1:A:276:TRP:CE3	1:A:277:LEU:CD2	2.98	0.46
1:A:475:GLU:O	1:A:478:GLN:HG2	2.15	0.46
1:C:189:LEU:HD12	1:C:189:LEU:HA	1.67	0.46
1:C:418:LYS:HB3	1:C:420:PRO:HD3	1.97	0.46
1:C:545:VAL:HA	1:C:548:GLN:HG2	1.96	0.46
1:C:610:ASP:O	1:C:613:SER:HB3	2.15	0.46
1:D:146:LEU:HB3	1:D:207:SER:HB2	1.97	0.46
1:D:270:ALA:HB1	1:D:274:GLU:OE2	2.16	0.46
1:D:533:LEU:HD23	1:D:629:VAL:HG13	1.97	0.46
1:E:222:PHE:HD2	1:E:224:PRO:HD2	1.80	0.46
1:E:272:LYS:O	1:E:273:LEU:C	2.57	0.46
1:E:350:GLU:CG	1:E:391:ASP:HB2	2.45	0.46
1:E:412:ILE:O	1:E:415:GLN:HB2	2.16	0.46
1:E:666:ARG:HG3	1:F:503:PHE:HE1	1.81	0.46
1:F:102:GLY:O	1:F:152:VAL:HA	2.15	0.46
1:F:191:PRO:HG3	1:F:234:LYS:HZ2	1.79	0.46
1:F:216:ILE:HG21	1:F:273:LEU:CD1	2.46	0.46
1:F:412:ILE:O	1:F:415:GLN:HB2	2.16	0.46
1:G:249:LEU:HD23	1:G:253:VAL:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:42:ALA:HB3	1:H:96:MET:HB2	1.97	0.46
1:H:102:GLY:O	1:H:152:VAL:HA	2.15	0.46
1:H:144:ARG:HD2	1:H:171:LYS:HB3	1.96	0.46
1:H:571:TYR:CE2	1:H:590:MET:SD	3.07	0.46
1:A:118:LYS:CD	1:A:265:LEU:HA	2.45	0.46
1:A:410:VAL:O	1:A:411:SER:C	2.59	0.46
1:A:497:TYR:CE2	1:A:511:LEU:HD22	2.50	0.46
1:B:361:LEU:HD11	1:B:386:LEU:HD23	1.97	0.46
1:C:422:THR:HG22	1:C:426:LEU:HD11	1.97	0.46
1:C:438:ARG:HG2	1:C:564:GLU:HG3	1.98	0.46
1:C:506:THR:HG22	1:C:507:SER:H	1.81	0.46
1:D:55:ARG:HE	1:D:55:ARG:HB2	1.53	0.46
1:D:198:LYS:C	1:D:200:THR:N	2.74	0.46
1:D:506:THR:HG22	1:D:507:SER:H	1.80	0.46
1:D:569:ASP:HB3	1:D:573:ARG:HD3	1.98	0.46
1:E:144:ARG:HD2	1:E:171:LYS:HB3	1.97	0.46
1:E:216:ILE:HG21	1:E:273:LEU:HD12	1.96	0.46
1:E:527:GLU:C	1:E:529:GLU:H	2.23	0.46
1:E:547:LEU:CD1	1:E:615:THR:HG21	2.04	0.46
1:F:444:CYS:O	1:F:447:LEU:N	2.47	0.46
1:G:418:LYS:HB3	1:G:420:PRO:HD3	1.96	0.46
1:H:105:ARG:HG2	1:H:109:ASN:ND2	2.30	0.46
1:H:118:LYS:CB	1:H:264:HIS:O	2.63	0.46
1:H:119:GLU:HB3	1:H:121:PRO:CD	2.42	0.46
1:H:186:LEU:C	1:H:188:TYR:H	2.22	0.46
1:H:614:LYS:HD3	1:H:614:LYS:HA	1.80	0.46
1:A:250:THR:C	1:A:251:GLY:O	2.58	0.46
1:A:412:ILE:O	1:A:415:GLN:HB2	2.15	0.46
1:B:74:VAL:HG21	1:B:165:ILE:HA	1.98	0.46
1:B:105:ARG:HG3	1:B:105:ARG:NH1	2.31	0.46
1:B:153:LEU:HD22	1:B:162:HIS:HD1	1.81	0.46
1:C:137:HIS:ND1	1:C:201:VAL:HG13	2.31	0.46
1:C:226:TRP:HD1	1:C:227:GLN:N	2.03	0.46
1:C:235:VAL:CG1	1:C:243:ILE:N	2.71	0.46
1:C:412:ILE:O	1:C:415:GLN:HB2	2.16	0.46
1:C:588:ASN:OD1	1:C:589:ASP:N	2.48	0.46
1:D:16:GLU:HG2	1:D:83:LEU:CD1	2.43	0.46
1:D:187:GLN:HB3	1:D:223:LEU:HD22	1.79	0.46
1:D:430:TRP:O	1:D:431:GLY:C	2.59	0.46
1:D:434:TRP:O	1:D:435:GLN:C	2.56	0.46
1:E:222:PHE:HB3	1:E:255:PHE:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:336:LEU:O	1:E:337:LYS:C	2.57	0.46
1:E:644:VAL:HA	1:E:647:GLN:NE2	2.20	0.46
1:F:213:PHE:O	1:F:214:GLU:C	2.58	0.46
1:F:220:ARG:HB3	1:F:221:PRO:HD2	1.97	0.46
1:F:438:ARG:HG2	1:F:564:GLU:HG3	1.98	0.46
1:F:449:GLN:NE2	1:F:453:THR:CG2	2.79	0.46
1:F:643:VAL:O	1:F:644:VAL:CG2	2.62	0.46
1:G:412:ILE:HG12	1:G:433:ILE:CD1	2.46	0.46
1:H:17:MET:HE1	1:H:80:PRO:HG2	1.97	0.46
1:H:208:PHE:O	1:H:211:LEU:HB3	2.15	0.46
1:H:281:LEU:O	1:H:282:MET:HG2	2.16	0.46
1:H:327:VAL:CG1	1:H:367:LEU:HB2	2.32	0.46
1:H:449:GLN:NE2	1:H:453:THR:CG2	2.78	0.46
1:A:430:TRP:O	1:A:431:GLY:C	2.59	0.46
1:B:16:GLU:C	1:B:17:MET:HG3	2.41	0.46
1:B:606:ILE:O	1:B:607:LEU:C	2.58	0.46
1:C:190:ALA:O	1:C:191:PRO:C	2.58	0.46
1:C:276:TRP:CE3	1:C:277:LEU:CD2	2.98	0.46
1:C:358:GLY:O	1:C:359:LEU:CB	2.60	0.46
1:C:422:THR:CB	1:C:585:GLY:HA3	2.40	0.46
1:C:527:GLU:C	1:C:529:GLU:H	2.24	0.46
1:D:408:GLU:OE2	1:D:408:GLU:HA	2.16	0.46
1:E:21:LEU:HD12	1:E:29:VAL:HG12	1.98	0.46
1:E:72:ASN:O	1:E:164:ILE:HG22	2.16	0.46
1:E:102:GLY:O	1:E:152:VAL:HA	2.15	0.46
1:E:265:LEU:CD2	1:E:269:LEU:CB	2.94	0.46
1:E:322:VAL:CG2	1:E:446:ARG:NH1	2.77	0.46
1:E:452:ARG:HD2	1:E:550:ASN:ND2	2.30	0.46
1:E:497:TYR:CD2	1:E:497:TYR:C	2.94	0.46
1:E:583:THR:O	1:E:584:PRO:C	2.58	0.46
1:E:647:GLN:OE1	1:E:647:GLN:HA	2.16	0.46
1:G:16:GLU:HG2	1:G:83:LEU:CD1	2.44	0.46
1:G:422:THR:HG22	1:G:426:LEU:HD11	1.97	0.46
1:H:74:VAL:CG2	1:H:165:ILE:HA	2.46	0.46
1:H:322:VAL:CG1	1:H:323:HIS:H	2.25	0.46
1:H:390:PHE:CD1	1:H:390:PHE:N	2.83	0.46
1:A:594:LEU:O	1:A:598:ILE:HG13	2.16	0.46
1:A:658:LEU:HD12	1:B:658:LEU:CD1	2.33	0.46
1:B:186:LEU:C	1:B:188:TYR:H	2.22	0.46
1:B:198:LYS:C	1:B:200:THR:N	2.73	0.46
1:B:418:LYS:O	1:B:419:ARG:CB	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:55:ARG:HE	1:C:55:ARG:HB2	1.54	0.46
1:C:193:LEU:CB	1:C:196:GLN:HE22	2.21	0.46
1:C:210:THR:O	1:C:211:LEU:C	2.59	0.46
1:C:216:ILE:HG21	1:C:273:LEU:CD1	2.46	0.46
1:C:480:LYS:HE3	1:C:527:GLU:CB	2.39	0.46
1:C:497:TYR:CA	1:D:655:TRP:HZ2	2.29	0.46
1:D:153:LEU:HD22	1:D:162:HIS:HD1	1.81	0.46
1:D:281:LEU:C	1:D:282:MET:HG2	2.41	0.46
1:D:362:ASN:C	1:D:364:ALA:N	2.71	0.46
1:D:412:ILE:O	1:D:415:GLN:HB2	2.15	0.46
1:E:478:GLN:HG3	1:E:479:LEU:N	2.30	0.46
1:E:533:LEU:CD2	1:E:629:VAL:CG1	2.88	0.46
1:F:193:LEU:CD2	1:F:231:TRP:CD1	2.97	0.46
1:F:564:GLU:HG2	1:F:564:GLU:O	2.15	0.46
1:F:647:GLN:OE1	1:F:647:GLN:HA	2.15	0.46
1:G:105:ARG:CZ	1:G:149:GLU:OE2	2.64	0.46
1:G:564:GLU:O	1:G:564:GLU:HG2	2.16	0.46
1:G:571:TYR:CE2	1:G:590:MET:CG	2.98	0.46
1:H:117:LEU:O	1:H:122:ILE:HD11	2.14	0.46
1:H:216:ILE:HG21	1:H:273:LEU:HD12	1.96	0.46
1:A:144:ARG:HD2	1:A:171:LYS:HB3	1.97	0.46
1:A:644:VAL:HA	1:A:647:GLN:NE2	2.20	0.46
1:B:540:LEU:HD21	1:B:621:LYS:HD2	1.97	0.46
1:B:647:GLN:OE1	1:B:647:GLN:HA	2.15	0.46
1:C:125:LEU:HD21	1:C:215:CYS:SG	2.56	0.46
1:C:467:LYS:HD3	1:C:467:LYS:HA	1.76	0.46
1:C:569:ASP:HB3	1:C:573:ARG:HD3	1.97	0.46
1:D:402:SER:O	1:D:403:LEU:CB	2.64	0.46
1:E:105:ARG:CZ	1:E:149:GLU:OE2	2.64	0.46
1:E:246:TYR:HB2	1:E:256:SER:HB3	1.98	0.46
1:E:572:ARG:HD3	1:F:573:ARG:HH22	1.80	0.46
1:F:433:ILE:HG23	1:F:594:LEU:HD22	1.97	0.46
1:F:447:LEU:HD12	1:F:605:VAL:HG21	1.98	0.46
1:G:81:ASP:HA	1:G:84:GLN:HE21	1.81	0.46
1:G:210:THR:N	1:G:281:LEU:HD11	2.31	0.46
1:G:359:LEU:H	1:G:460:ARG:NH1	2.14	0.46
1:G:475:GLU:OE2	1:G:637:ARG:CG	2.58	0.46
1:H:296:ASN:ND2	1:H:302:ALA:HB2	2.30	0.46
1:H:323:HIS:HB3	1:H:325:TYR:CE1	2.51	0.46
1:A:125:LEU:HD21	1:A:215:CYS:SG	2.56	0.46
1:A:480:LYS:HZ1	1:A:527:GLU:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:651:GLN:HE22	1:B:492:ILE:CG2	2.25	0.46
1:B:246:TYR:HB2	1:B:256:SER:HB3	1.98	0.46
1:C:269:LEU:HD22	1:C:272:LYS:HE3	1.97	0.46
1:C:573:ARG:NH1	1:D:573:ARG:NH2	2.10	0.46
1:D:125:LEU:CA	1:D:162:HIS:NE2	2.71	0.46
1:D:497:TYR:CD2	1:D:497:TYR:C	2.93	0.46
1:E:412:ILE:O	1:E:416:ASP:OD1	2.34	0.46
1:E:614:LYS:HA	1:E:614:LYS:HD3	1.81	0.46
1:E:662:CYS:SG	1:F:661:ALA:CB	2.97	0.46
1:F:16:GLU:C	1:F:17:MET:HG3	2.41	0.46
1:F:153:LEU:HD23	1:F:162:HIS:HB3	1.98	0.46
1:F:269:LEU:HD22	1:F:272:LYS:HE3	1.97	0.46
1:F:276:TRP:CE3	1:F:277:LEU:CD2	2.99	0.46
1:F:281:LEU:C	1:F:282:MET:HG2	2.41	0.46
1:G:323:HIS:HB3	1:G:325:TYR:CE1	2.51	0.46
1:G:563:LEU:HD23	1:G:597:ALA:HB2	1.97	0.46
1:H:16:GLU:HG2	1:H:83:LEU:CD1	2.44	0.46
1:H:216:ILE:HG21	1:H:273:LEU:CD1	2.45	0.46
1:A:281:LEU:C	1:A:282:MET:HG2	2.41	0.45
1:A:316:ASN:N	1:A:321:ARG:O	2.49	0.45
1:B:540:LEU:HD21	1:B:621:LYS:HZ2	1.80	0.45
1:C:105:ARG:HG2	1:C:109:ASN:ND2	2.31	0.45
1:C:246:TYR:HB2	1:C:256:SER:HB3	1.98	0.45
1:C:316:ASN:N	1:C:321:ARG:O	2.49	0.45
1:C:527:GLU:C	1:C:529:GLU:N	2.73	0.45
1:D:485:PHE:CD1	1:D:485:PHE:C	2.94	0.45
1:E:469:LYS:NZ	1:E:630:LYS:HD3	2.31	0.45
1:E:469:LYS:HD2	1:E:630:LYS:HG2	1.98	0.45
1:E:666:ARG:HG3	1:F:503:PHE:CE1	2.51	0.45
1:F:222:PHE:HB3	1:F:255:PHE:HB3	1.98	0.45
1:F:246:TYR:HB2	1:F:256:SER:HB3	1.98	0.45
1:F:419:ARG:NH1	1:F:588:ASN:HA	2.32	0.45
1:G:16:GLU:C	1:G:17:MET:HG3	2.41	0.45
1:H:72:ASN:O	1:H:164:ILE:HG22	2.16	0.45
1:H:361:LEU:HD11	1:H:386:LEU:HD23	1.98	0.45
1:A:140:ARG:NH2	1:A:174:ASP:OD2	2.50	0.45
1:A:247:ASP:HB3	1:A:248:ASP:H	1.49	0.45
1:A:336:LEU:O	1:A:337:LYS:C	2.59	0.45
1:B:42:ALA:HB3	1:B:96:MET:HB2	1.97	0.45
1:B:296:ASN:ND2	1:B:302:ALA:HB2	2.31	0.45
1:B:563:LEU:HD23	1:B:597:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:564:GLU:O	1:B:564:GLU:HG2	2.16	0.45
1:C:222:PHE:HD2	1:C:224:PRO:HD2	1.81	0.45
1:C:440:LEU:HD12	1:C:597:ALA:O	2.17	0.45
1:D:260:PRO:HB3	1:D:273:LEU:HD22	1.98	0.45
1:E:50:LEU:H	1:E:55:ARG:CD	2.29	0.45
1:E:118:LYS:HZ1	1:E:123:ARG:HH12	1.63	0.45
1:F:105:ARG:HG2	1:F:109:ASN:ND2	2.30	0.45
1:F:503:PHE:C	1:F:505:ILE:HG13	2.40	0.45
1:F:570:LEU:CB	1:F:590:MET:CE	2.75	0.45
1:G:193:LEU:CB	1:G:196:GLN:HE22	2.24	0.45
1:H:135:TYR:O	1:H:139:ASN:ND2	2.48	0.45
1:H:198:LYS:HG2	1:H:284:HIS:HA	1.98	0.45
1:H:569:ASP:HB3	1:H:573:ARG:HD3	1.97	0.45
1:A:248:ASP:OD1	1:A:248:ASP:O	2.34	0.45
1:A:560:LEU:HD12	1:A:601:PHE:HB2	1.98	0.45
1:B:81:ASP:HA	1:B:84:GLN:HE21	1.82	0.45
1:B:116:GLY:HA2	1:B:217:THR:O	2.17	0.45
1:B:350:GLU:CG	1:B:391:ASP:HB2	2.44	0.45
1:B:448:LEU:HB2	1:B:608:ILE:HD11	1.97	0.45
1:B:497:TYR:CD2	1:B:497:TYR:C	2.93	0.45
1:C:17:MET:HE1	1:C:80:PRO:HG2	1.99	0.45
1:C:102:GLY:O	1:C:103:ASP:C	2.60	0.45
1:C:225:ASN:OD1	1:C:229:VAL:HG12	2.15	0.45
1:C:250:THR:C	1:C:251:GLY:O	2.58	0.45
1:C:336:LEU:O	1:C:337:LYS:C	2.60	0.45
1:C:455:MET:HE1	1:C:548:GLN:N	2.31	0.45
1:D:120:GLY:C	1:D:123:ARG:H	2.25	0.45
1:D:235:VAL:CG1	1:D:243:ILE:N	2.71	0.45
1:D:416:ASP:HB3	1:D:591:VAL:HG13	1.98	0.45
1:D:646:ARG:C	1:D:647:GLN:CD	2.84	0.45
1:E:224:PRO:HG3	1:E:428:ARG:HH22	1.81	0.45
1:E:249:LEU:HB3	1:E:250:THR:H	1.39	0.45
1:E:250:THR:C	1:E:251:GLY:O	2.58	0.45
1:E:323:HIS:HB3	1:E:325:TYR:CE1	2.52	0.45
1:E:422:THR:HG22	1:E:426:LEU:CD2	2.46	0.45
1:E:497:TYR:CD2	1:E:511:LEU:HD22	2.48	0.45
1:E:651:GLN:O	1:E:652:GLN:C	2.59	0.45
1:F:120:GLY:CA	1:F:123:ARG:HB2	2.47	0.45
1:F:148:PRO:HD2	1:F:149:GLU:OE2	2.16	0.45
1:F:418:LYS:O	1:F:419:ARG:CB	2.61	0.45
1:F:646:ARG:C	1:F:647:GLN:CD	2.85	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:312:LEU:O	1:G:324:THR:HG23	2.17	0.45
1:H:210:THR:O	1:H:211:LEU:C	2.60	0.45
1:H:422:THR:HG22	1:H:426:LEU:HD11	1.98	0.45
1:A:222:PHE:CE2	1:A:224:PRO:O	2.70	0.45
1:A:402:SER:HB2	1:A:403:LEU:H	1.67	0.45
1:A:497:TYR:CD2	1:A:497:TYR:C	2.94	0.45
1:A:506:THR:HG22	1:A:507:SER:H	1.80	0.45
1:A:647:GLN:OE1	1:A:647:GLN:HA	2.16	0.45
1:A:665:VAL:HG22	1:B:665:VAL:HG21	1.97	0.45
1:B:102:GLY:O	1:B:103:ASP:C	2.60	0.45
1:B:322:VAL:CG1	1:B:323:HIS:N	2.76	0.45
1:B:416:ASP:OD1	1:B:416:ASP:N	2.39	0.45
1:B:426:LEU:O	1:B:430:TRP:N	2.45	0.45
1:B:443:ASP:O	1:B:446:ARG:CB	2.65	0.45
1:C:284:HIS:HE1	1:E:338:SER:OG	1.99	0.45
1:C:530:VAL:CA	1:C:533:LEU:HD12	2.30	0.45
1:C:571:TYR:CE2	1:C:590:MET:HG3	2.52	0.45
1:D:140:ARG:NH2	1:D:174:ASP:OD2	2.49	0.45
1:D:216:ILE:HG21	1:D:273:LEU:CD1	2.46	0.45
1:D:249:LEU:HB3	1:D:250:THR:H	1.37	0.45
1:D:250:THR:C	1:D:251:GLY:O	2.59	0.45
1:E:412:ILE:HG12	1:E:433:ILE:CD1	2.46	0.45
1:E:458:LEU:CD1	1:E:544:SER:HB3	2.47	0.45
1:F:135:TYR:O	1:F:139:ASN:ND2	2.47	0.45
1:F:412:ILE:O	1:F:416:ASP:OD1	2.34	0.45
1:F:433:ILE:HG21	1:F:571:TYR:OH	2.15	0.45
1:F:436:THR:O	1:F:440:LEU:HG	2.15	0.45
1:H:118:LYS:HD3	1:H:265:LEU:HD12	1.97	0.45
1:H:153:LEU:HD23	1:H:162:HIS:HB3	1.97	0.45
1:A:213:PHE:O	1:A:214:GLU:C	2.59	0.45
1:A:296:ASN:ND2	1:A:302:ALA:HB2	2.30	0.45
1:A:402:SER:HA	1:A:609:TYR:CG	2.51	0.45
1:A:412:ILE:HG12	1:A:433:ILE:CD1	2.45	0.45
1:A:484:ASP:O	1:A:485:PHE:C	2.57	0.45
1:D:42:ALA:HB3	1:D:96:MET:HB2	1.97	0.45
1:D:297:VAL:HG23	1:D:301:GLN:HE21	1.82	0.45
1:D:402:SER:HB3	1:D:609:TYR:HB2	1.99	0.45
1:D:580:ASP:CG	1:D:580:ASP:O	2.60	0.45
1:E:102:GLY:O	1:E:103:ASP:C	2.59	0.45
1:E:117:LEU:O	1:E:122:ILE:HD11	2.16	0.45
1:E:462:ASN:ND2	1:E:540:LEU:HB3	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:470:ASN:HD22	1:F:470:ASN:N	2.15	0.45
1:F:506:THR:HG22	1:F:507:SER:H	1.81	0.45
1:F:606:ILE:O	1:F:607:LEU:C	2.58	0.45
1:F:651:GLN:O	1:F:652:GLN:C	2.59	0.45
1:G:17:MET:HE1	1:G:80:PRO:HG2	1.98	0.45
1:G:190:ALA:O	1:G:191:PRO:C	2.59	0.45
1:G:350:GLU:OE2	1:G:391:ASP:O	2.33	0.45
1:G:475:GLU:CD	1:G:636:MET:HE1	2.39	0.45
1:G:569:ASP:HB3	1:G:573:ARG:HD3	1.98	0.45
1:H:81:ASP:HA	1:H:84:GLN:HE21	1.81	0.45
1:H:235:VAL:CG1	1:H:243:ILE:N	2.73	0.45
1:H:373:ASP:OD1	1:H:374:CYS:N	2.49	0.45
1:A:134:ARG:HD2	1:A:300:PHE:CE1	2.52	0.45
1:A:438:ARG:CG	1:A:564:GLU:HG3	2.46	0.45
1:A:482:LYS:C	1:A:484:ASP:N	2.74	0.45
1:B:102:GLY:CA	1:B:152:VAL:HG13	2.47	0.45
1:B:134:ARG:HD2	1:B:300:PHE:CE1	2.52	0.45
1:B:485:PHE:CD1	1:B:485:PHE:C	2.95	0.45
1:C:72:ASN:H	1:C:163:LYS:HE2	1.82	0.45
1:C:220:ARG:HB3	1:C:221:PRO:HD2	1.98	0.45
1:C:277:LEU:C	1:C:279:CYS:N	2.74	0.45
1:C:497:TYR:CD2	1:C:497:TYR:C	2.93	0.45
1:D:84:GLN:HB3	1:D:85:LYS:H	1.50	0.45
1:D:109:ASN:O	1:D:110:GLN:C	2.60	0.45
1:D:189:LEU:HD12	1:D:189:LEU:HA	1.63	0.45
1:D:276:TRP:CE3	1:D:277:LEU:CD2	3.00	0.45
1:D:475:GLU:O	1:D:478:GLN:HG2	2.17	0.45
1:E:103:ASP:O	1:E:105:ARG:N	2.50	0.45
1:E:115:CYS:CB	1:E:435:GLN:HG3	2.46	0.45
1:E:410:VAL:O	1:E:411:SER:C	2.59	0.45
1:E:482:LYS:C	1:E:484:ASP:H	2.23	0.45
1:F:153:LEU:HD22	1:F:162:HIS:HD1	1.81	0.45
1:F:270:ALA:HB1	1:F:274:GLU:OE2	2.16	0.45
1:F:545:VAL:HA	1:F:548:GLN:HG2	1.99	0.45
1:G:234:LYS:O	1:G:235:VAL:O	2.35	0.45
1:H:125:LEU:HD21	1:H:215:CYS:SG	2.56	0.45
1:H:297:VAL:HG23	1:H:301:GLN:NE2	2.32	0.45
1:A:105:ARG:CZ	1:A:149:GLU:OE2	2.65	0.45
1:A:130:SER:O	1:A:300:PHE:CE1	2.69	0.45
1:A:254:LYS:N	1:A:255:PHE:CE1	2.85	0.45
1:A:409:SER:CB	1:A:412:ILE:CD1	2.92	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:119:GLU:HB3	1:B:121:PRO:CD	2.41	0.45
1:B:297:VAL:HG23	1:B:301:GLN:HE21	1.82	0.45
1:B:408:GLU:OE2	1:B:408:GLU:HA	2.16	0.45
1:B:418:LYS:HB3	1:B:419:ARG:H	1.67	0.45
1:B:500:GLN:HB2	1:B:505:ILE:HG23	1.98	0.45
1:B:501:MET:HA	1:B:505:ILE:CD1	2.39	0.45
1:C:198:LYS:C	1:C:200:THR:N	2.75	0.45
1:C:654:LEU:HD22	1:D:654:LEU:HD21	1.74	0.45
1:D:260:PRO:HB2	1:D:273:LEU:CD1	2.45	0.45
1:F:103:ASP:O	1:F:105:ARG:N	2.50	0.45
1:G:297:VAL:HG23	1:G:301:GLN:HE21	1.81	0.45
1:H:26:PHE:CE2	1:H:181:GLU:CG	2.99	0.45
1:H:102:GLY:CA	1:H:152:VAL:HG13	2.47	0.45
1:H:426:LEU:O	1:H:430:TRP:N	2.43	0.45
1:A:16:GLU:C	1:A:17:MET:HG3	2.41	0.45
1:A:81:ASP:HA	1:A:84:GLN:HE21	1.82	0.45
1:B:21:LEU:HD12	1:B:29:VAL:HG12	1.99	0.45
1:B:276:TRP:HE3	1:B:277:LEU:HD23	1.81	0.45
1:B:281:LEU:C	1:B:282:MET:HG2	2.42	0.45
1:B:422:THR:HG22	1:B:426:LEU:HD11	1.98	0.45
1:B:430:TRP:CE3	1:B:574:LEU:HD22	2.50	0.45
1:B:470:ASN:HD22	1:B:470:ASN:N	2.14	0.45
1:B:528:ARG:HA	1:B:530:VAL:HG22	1.99	0.45
1:C:373:ASP:O	1:C:374:CYS:CB	2.65	0.45
1:D:16:GLU:C	1:D:17:MET:HG3	2.42	0.45
1:D:135:TYR:O	1:D:139:ASN:ND2	2.49	0.45
1:E:253:VAL:HB	1:E:255:PHE:CE1	2.52	0.45
1:E:276:TRP:CE3	1:E:277:LEU:CD2	3.00	0.45
1:E:276:TRP:CZ2	1:E:280:MET:HG3	2.52	0.45
1:E:297:VAL:HG23	1:E:301:GLN:NE2	2.31	0.45
1:E:455:MET:HE1	1:E:548:GLN:N	2.32	0.45
1:E:580:ASP:O	1:E:580:ASP:CG	2.60	0.45
1:G:111:PHE:HE2	1:G:572:ARG:HE	1.64	0.45
1:G:124:THR:O	1:G:127:SER:N	2.48	0.45
1:G:206:TRP:CD1	1:G:207:SER:N	2.85	0.45
1:H:21:LEU:HD12	1:H:29:VAL:HG12	1.99	0.45
1:H:297:VAL:HG23	1:H:301:GLN:HE21	1.81	0.45
1:A:118:LYS:HD3	1:A:265:LEU:HA	1.99	0.45
1:A:190:ALA:O	1:A:191:PRO:C	2.60	0.45
1:A:222:PHE:HB2	1:A:255:PHE:HD2	1.82	0.45
1:A:291:ASP:HA	1:A:292:PRO:HD3	1.83	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:402:SER:O	1:A:403:LEU:CB	2.64	0.45
1:A:566:GLN:HG2	1:A:593:LEU:HD11	1.99	0.45
1:B:153:LEU:HD23	1:B:162:HIS:HB3	1.98	0.45
1:B:277:LEU:C	1:B:279:CYS:N	2.74	0.45
1:B:429:VAL:O	1:B:433:ILE:HG12	2.17	0.45
1:B:569:ASP:HB3	1:B:573:ARG:HD3	1.99	0.45
1:C:222:PHE:HB3	1:C:255:PHE:HB3	1.99	0.45
1:C:254:LYS:C	1:C:255:PHE:CD1	2.95	0.45
1:C:485:PHE:CZ	1:D:485:PHE:CG	3.04	0.45
1:C:580:ASP:CG	1:C:580:ASP:O	2.60	0.45
1:C:660:ILE:C	1:C:662:CYS:N	2.65	0.45
1:D:120:GLY:CA	1:D:123:ARG:HB2	2.47	0.45
1:D:134:ARG:CA	1:D:300:PHE:CZ	2.97	0.45
1:D:246:TYR:HB2	1:D:256:SER:HB3	1.97	0.45
1:D:484:ASP:C	1:D:486:PHE:H	2.22	0.45
1:D:488:SER:O	1:D:492:ILE:HG22	2.17	0.45
1:E:661:ALA:CB	1:F:662:CYS:SG	2.99	0.45
1:F:42:ALA:HB3	1:F:96:MET:HB2	1.98	0.45
1:F:50:LEU:H	1:F:55:ARG:CD	2.30	0.45
1:F:222:PHE:CE2	1:F:224:PRO:O	2.70	0.45
1:F:443:ASP:O	1:F:446:ARG:N	2.50	0.45
1:G:84:GLN:HB3	1:G:85:LYS:H	1.51	0.45
1:G:137:HIS:ND1	1:G:201:VAL:HG13	2.32	0.45
1:G:580:ASP:O	1:G:580:ASP:CG	2.58	0.45
1:H:70:HIS:HB2	1:H:135:TYR:CD2	2.52	0.45
1:H:105:ARG:CZ	1:H:149:GLU:OE2	2.65	0.45
1:A:494:LEU:HD12	1:A:514:TRP:CE3	2.48	0.45
1:A:510:LEU:HB2	1:A:657:LEU:HD13	1.99	0.45
1:A:569:ASP:HB3	1:A:573:ARG:HD3	1.98	0.45
1:A:628:LYS:C	1:A:630:LYS:H	2.25	0.45
1:B:109:ASN:O	1:B:110:GLN:C	2.59	0.45
1:B:412:ILE:O	1:B:415:GLN:HB2	2.17	0.45
1:B:530:VAL:CA	1:B:533:LEU:HD12	2.32	0.45
1:C:21:LEU:HD12	1:C:29:VAL:HG12	1.99	0.45
1:D:422:THR:HG22	1:D:426:LEU:CD2	2.44	0.45
1:D:430:TRP:HA	1:D:571:TYR:CE2	2.52	0.45
1:D:521:VAL:HA	1:D:524:CYS:HG	1.75	0.45
1:E:124:THR:O	1:E:127:SER:N	2.50	0.45
1:E:478:GLN:O	1:E:482:LYS:HB3	2.15	0.45
1:E:494:LEU:HD13	1:E:514:TRP:HB3	1.99	0.45
1:E:665:VAL:HG22	1:F:665:VAL:CG1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:121:PRO:HA	1:F:124:THR:OG1	2.17	0.45
1:F:198:LYS:C	1:F:200:THR:H	2.25	0.45
1:F:443:ASP:C	1:F:446:ARG:HB2	2.39	0.45
1:F:455:MET:HE3	1:F:455:MET:HB2	1.93	0.45
1:F:644:VAL:HA	1:F:647:GLN:NE2	2.20	0.45
1:G:18:LYS:HD2	1:G:33:ILE:HB	1.99	0.45
1:G:246:TYR:HB2	1:G:256:SER:HB3	1.99	0.45
1:H:410:VAL:O	1:H:411:SER:C	2.60	0.45
1:H:467:LYS:HD3	1:H:467:LYS:HA	1.74	0.45
1:A:213:PHE:HD2	1:A:214:GLU:N	2.15	0.44
1:B:105:ARG:CZ	1:B:149:GLU:OE2	2.66	0.44
1:B:233:GLY:O	1:B:235:VAL:N	2.50	0.44
1:B:323:HIS:HB3	1:B:325:TYR:CE1	2.52	0.44
1:B:436:THR:O	1:B:440:LEU:HG	2.17	0.44
1:C:18:LYS:HD2	1:C:33:ILE:HB	1.98	0.44
1:C:206:TRP:CD1	1:C:207:SER:N	2.85	0.44
1:C:296:ASN:CG	1:C:297:VAL:N	2.75	0.44
1:D:100:GLU:H	1:D:154:GLN:HG3	1.82	0.44
1:D:222:PHE:CE2	1:D:225:ASN:CB	2.89	0.44
1:D:435:GLN:O	1:D:439:ALA:N	2.50	0.44
1:E:269:LEU:C	1:E:271:GLY:N	2.70	0.44
1:E:573:ARG:HH12	1:F:573:ARG:HH12	1.65	0.44
1:E:606:ILE:O	1:E:607:LEU:C	2.61	0.44
1:F:81:ASP:HA	1:F:84:GLN:HE21	1.82	0.44
1:F:109:ASN:O	1:F:110:GLN:C	2.60	0.44
1:F:422:THR:HG22	1:F:426:LEU:HD11	1.98	0.44
1:G:249:LEU:HB3	1:G:250:THR:H	1.39	0.44
1:G:250:THR:C	1:G:251:GLY:O	2.60	0.44
1:H:409:SER:CB	1:H:412:ILE:CD1	2.93	0.44
1:H:419:ARG:HA	1:H:587:SER:CB	2.47	0.44
1:A:17:MET:HE1	1:A:80:PRO:HG2	1.99	0.44
1:B:234:LYS:O	1:B:235:VAL:O	2.35	0.44
1:C:272:LYS:HG2	1:C:273:LEU:HA	1.99	0.44
1:C:387:ILE:CD1	1:C:450:GLY:N	2.80	0.44
1:D:18:LYS:HD2	1:D:33:ILE:HB	1.99	0.44
1:D:296:ASN:ND2	1:D:302:ALA:HB2	2.32	0.44
1:E:189:LEU:HD12	1:E:207:SER:HB3	1.99	0.44
1:E:536:LYS:CG	1:E:625:LEU:HD13	2.47	0.44
1:E:564:GLU:O	1:E:564:GLU:HG2	2.18	0.44
1:F:193:LEU:HD22	1:F:231:TRP:NE1	2.32	0.44
1:F:291:ASP:HA	1:F:292:PRO:HD3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:117:LEU:O	1:G:122:ILE:HD11	2.16	0.44
1:G:222:PHE:CE2	1:G:224:PRO:O	2.70	0.44
1:G:533:LEU:CD2	1:G:633:MET:HE3	2.46	0.44
1:H:16:GLU:C	1:H:17:MET:HG3	2.42	0.44
1:H:18:LYS:HD2	1:H:33:ILE:HB	1.99	0.44
1:H:105:ARG:HG3	1:H:105:ARG:NH1	2.33	0.44
1:H:222:PHE:HB3	1:H:255:PHE:HB3	1.99	0.44
1:A:26:PHE:HE2	1:A:181:GLU:OE1	2.00	0.44
1:B:434:TRP:CZ3	1:B:568:ARG:CB	2.97	0.44
1:B:567:ALA:HA	1:B:590:MET:HE1	1.99	0.44
1:C:153:LEU:HD23	1:C:162:HIS:HB3	2.00	0.44
1:C:234:LYS:O	1:C:235:VAL:O	2.35	0.44
1:C:361:LEU:HD23	1:C:361:LEU:HA	1.87	0.44
1:D:269:LEU:HD22	1:D:272:LYS:HE3	1.99	0.44
1:D:570:LEU:HD22	1:D:590:MET:HE2	1.96	0.44
1:E:254:LYS:C	1:E:255:PHE:CD1	2.95	0.44
1:E:316:ASN:N	1:E:321:ARG:O	2.50	0.44
1:E:492:ILE:HD13	1:F:651:GLN:NE2	2.22	0.44
1:E:665:VAL:CG2	1:F:665:VAL:HG21	2.45	0.44
1:F:389:LEU:N	1:F:389:LEU:HD12	2.32	0.44
1:F:503:PHE:C	1:F:505:ILE:N	2.74	0.44
1:F:530:VAL:CA	1:F:533:LEU:HD12	2.30	0.44
1:F:580:ASP:CG	1:F:580:ASP:O	2.60	0.44
1:G:260:PRO:HB2	1:G:273:LEU:CD1	2.47	0.44
1:A:102:GLY:CA	1:A:152:VAL:HG13	2.47	0.44
1:A:153:LEU:HD23	1:A:162:HIS:HB3	1.98	0.44
1:A:153:LEU:HD22	1:A:162:HIS:HD1	1.83	0.44
1:B:412:ILE:O	1:B:416:ASP:OD1	2.36	0.44
1:B:484:ASP:O	1:B:485:PHE:C	2.61	0.44
1:B:506:THR:HG22	1:B:507:SER:H	1.82	0.44
1:C:140:ARG:NH2	1:C:174:ASP:OD2	2.51	0.44
1:C:390:PHE:N	1:C:390:PHE:CD1	2.85	0.44
1:D:100:GLU:N	1:D:154:GLN:HG3	2.31	0.44
1:D:105:ARG:CZ	1:D:149:GLU:OE2	2.66	0.44
1:D:153:LEU:HD23	1:D:162:HIS:HB3	1.99	0.44
1:D:222:PHE:HD2	1:D:224:PRO:HD2	1.83	0.44
1:D:254:LYS:N	1:D:255:PHE:CE1	2.85	0.44
1:F:430:TRP:HB3	1:F:571:TYR:CD2	2.47	0.44
1:F:482:LYS:C	1:F:484:ASP:N	2.75	0.44
1:G:307:LEU:O	1:G:307:LEU:HD23	2.18	0.44
1:H:422:THR:HB	1:H:585:GLY:HA2	1.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:436:THR:O	1:H:440:LEU:HG	2.17	0.44
1:A:21:LEU:HD12	1:A:29:VAL:HG12	1.99	0.44
1:A:222:PHE:HB3	1:A:255:PHE:HB3	1.99	0.44
1:A:234:LYS:O	1:A:235:VAL:O	2.36	0.44
1:B:118:LYS:CG	1:B:118:LYS:O	2.64	0.44
1:C:426:LEU:O	1:C:430:TRP:N	2.43	0.44
1:D:81:ASP:HA	1:D:84:GLN:HE21	1.83	0.44
1:D:436:THR:O	1:D:440:LEU:HG	2.17	0.44
1:D:590:MET:HE1	1:D:593:LEU:HD12	2.00	0.44
1:E:16:GLU:C	1:E:17:MET:HG3	2.43	0.44
1:E:104:LEU:N	1:E:151:ILE:O	2.35	0.44
1:E:475:GLU:HG2	1:E:636:MET:HE1	2.00	0.44
1:E:484:ASP:O	1:E:485:PHE:C	2.58	0.44
1:F:18:LYS:HZ2	1:F:33:ILE:HG21	1.81	0.44
1:F:140:ARG:NH2	1:F:174:ASP:OD2	2.50	0.44
1:F:297:VAL:HG23	1:F:301:GLN:HE21	1.82	0.44
1:F:467:LYS:HA	1:F:467:LYS:HD3	1.75	0.44
1:G:105:ARG:HG3	1:G:105:ARG:NH1	2.33	0.44
1:G:120:GLY:CA	1:G:123:ARG:HB2	2.47	0.44
1:H:271:GLY:HA2	1:H:275:ARG:NH2	2.32	0.44
1:H:312:LEU:HA	1:H:312:LEU:HD23	1.53	0.44
1:H:316:ASN:O	1:H:317:MET:HG2	2.18	0.44
1:H:455:MET:HE3	1:H:455:MET:HB2	1.92	0.44
1:H:545:VAL:HA	1:H:548:GLN:HG2	1.98	0.44
1:A:148:PRO:HD2	1:A:149:GLU:OE2	2.18	0.44
1:A:190:ALA:HB2	1:A:206:TRP:CG	2.53	0.44
1:A:312:LEU:O	1:A:324:THR:HG23	2.18	0.44
1:A:579:ARG:HA	1:A:582:ARG:NH2	2.33	0.44
1:B:102:GLY:HA3	1:B:152:VAL:HG13	1.99	0.44
1:B:185:THR:CG2	1:B:187:GLN:CG	2.81	0.44
1:C:72:ASN:O	1:C:164:ILE:HG22	2.18	0.44
1:C:124:THR:O	1:C:127:SER:N	2.50	0.44
1:C:346:ILE:HG23	1:C:346:ILE:O	2.18	0.44
1:C:394:LYS:HE3	1:C:609:TYR:O	2.17	0.44
1:C:438:ARG:HG2	1:C:564:GLU:OE1	2.18	0.44
1:C:459:LEU:HD12	1:C:548:GLN:HB3	2.00	0.44
1:D:17:MET:HE1	1:D:80:PRO:HG2	1.98	0.44
1:D:253:VAL:HB	1:D:255:PHE:CE1	2.53	0.44
1:D:269:LEU:C	1:D:271:GLY:N	2.71	0.44
1:D:297:VAL:HG23	1:D:301:GLN:NE2	2.33	0.44
1:D:438:ARG:CG	1:D:564:GLU:CG	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:579:ARG:HA	1:D:582:ARG:NH2	2.33	0.44
1:F:21:LEU:HD12	1:F:29:VAL:HG12	1.99	0.44
1:F:187:GLN:CB	1:F:223:LEU:CD2	2.76	0.44
1:F:480:LYS:HE3	1:F:527:GLU:HB2	1.99	0.44
1:G:191:PRO:HG3	1:G:234:LYS:HZ2	1.80	0.44
1:G:254:LYS:N	1:G:255:PHE:CE1	2.86	0.44
1:G:260:PRO:HB3	1:G:273:LEU:HD22	1.99	0.44
1:H:412:ILE:HG12	1:H:433:ILE:HD13	1.99	0.44
1:A:118:LYS:CG	1:A:118:LYS:O	2.63	0.44
1:A:226:TRP:HD1	1:A:227:GLN:N	2.08	0.44
1:A:339:TRP:HA	1:A:342:GLN:CB	2.36	0.44
1:A:350:GLU:CG	1:A:391:ASP:HB2	2.47	0.44
1:B:124:THR:O	1:B:127:SER:N	2.51	0.44
1:B:437:ILE:HG13	1:B:594:LEU:HD12	1.99	0.44
1:C:120:GLY:CA	1:C:123:ARG:HB2	2.47	0.44
1:C:260:PRO:C	1:C:261:THR:HG1	2.26	0.44
1:C:493:ASP:HB3	1:C:514:TRP:CH2	2.52	0.44
1:C:547:LEU:HD22	1:C:611:GLN:CG	2.48	0.44
1:C:650:ARG:HA	1:C:650:ARG:HD3	1.70	0.44
1:C:651:GLN:HE21	1:D:492:ILE:CG2	2.23	0.44
1:E:189:LEU:HD12	1:E:189:LEU:HA	1.66	0.44
1:E:312:LEU:O	1:E:324:THR:HG23	2.17	0.44
1:E:449:GLN:NE2	1:E:453:THR:CG2	2.81	0.44
1:F:222:PHE:HD2	1:F:224:PRO:HD2	1.82	0.44
1:F:253:VAL:HB	1:F:255:PHE:CE1	2.53	0.44
1:F:497:TYR:CD2	1:F:497:TYR:C	2.96	0.44
1:F:569:ASP:HB3	1:F:573:ARG:HD3	1.98	0.44
1:G:312:LEU:HD23	1:G:312:LEU:HA	1.49	0.44
1:G:387:ILE:HD13	1:G:450:GLY:CA	2.47	0.44
1:H:73:VAL:HB	1:H:164:ILE:HG23	1.99	0.44
1:H:134:ARG:CB	1:H:300:PHE:CE1	2.91	0.44
1:H:387:ILE:CD1	1:H:450:GLY:HA2	2.47	0.44
1:H:580:ASP:CG	1:H:580:ASP:O	2.60	0.44
1:A:102:GLY:O	1:A:103:ASP:C	2.60	0.44
1:A:103:ASP:O	1:A:105:ARG:N	2.50	0.44
1:A:286:ARG:CG	1:A:286:ARG:HH11	2.30	0.44
1:A:485:PHE:C	1:A:485:PHE:CD1	2.94	0.44
1:A:511:LEU:HD21	1:A:515:ARG:NH2	2.32	0.44
1:A:632:VAL:HB	1:A:633:MET:HE2	1.99	0.44
1:B:73:VAL:HB	1:B:164:ILE:HG23	2.00	0.44
1:B:590:MET:HE1	1:B:593:LEU:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:121:PRO:HA	1:C:124:THR:OG1	2.18	0.44
1:C:249:LEU:HB3	1:C:250:THR:H	1.42	0.44
1:C:494:LEU:HD12	1:C:514:TRP:CE3	2.38	0.44
1:D:131:SER:C	1:D:134:ARG:HB3	2.43	0.44
1:D:222:PHE:HB3	1:D:255:PHE:HB3	1.99	0.44
1:D:412:ILE:HG12	1:D:433:ILE:HD13	1.99	0.44
1:E:81:ASP:HA	1:E:84:GLN:HE21	1.82	0.44
1:E:195:GLU:O	1:E:196:GLN:HB2	2.18	0.44
1:E:389:LEU:HD12	1:E:389:LEU:N	2.32	0.44
1:F:18:LYS:HD2	1:F:33:ILE:HB	2.00	0.44
1:F:486:PHE:HZ	1:F:517:MET:CE	2.30	0.44
1:G:222:PHE:HD2	1:G:224:PRO:HD2	1.83	0.44
1:H:143:HIS:NE2	1:H:167:LEU:HB2	2.33	0.44
1:H:319:SER:C	1:H:321:ARG:N	2.65	0.44
1:A:16:GLU:HB3	1:A:17:MET:H	1.71	0.44
1:A:18:LYS:HD2	1:A:33:ILE:HB	2.00	0.44
1:A:528:ARG:HA	1:A:530:VAL:HG22	2.00	0.44
1:A:580:ASP:O	1:A:580:ASP:CG	2.61	0.44
1:B:18:LYS:HD2	1:B:33:ILE:HB	2.00	0.44
1:B:297:VAL:HG23	1:B:301:GLN:NE2	2.33	0.44
1:B:479:LEU:HD12	1:B:640:GLU:CB	2.45	0.44
1:B:646:ARG:C	1:B:647:GLN:OE1	2.61	0.44
1:B:649:LYS:HA	1:B:652:GLN:HB3	2.00	0.44
1:C:195:GLU:O	1:C:196:GLN:HB2	2.18	0.44
1:C:590:MET:HE1	1:C:593:LEU:HD12	1.98	0.44
1:D:105:ARG:HG2	1:D:109:ASN:ND2	2.32	0.44
1:D:134:ARG:HD2	1:D:300:PHE:CE1	2.53	0.44
1:D:448:LEU:HB2	1:D:608:ILE:HD11	1.99	0.44
1:D:560:LEU:HD23	1:D:560:LEU:C	2.43	0.44
1:F:84:GLN:HB3	1:F:85:LYS:H	1.50	0.44
1:F:103:ASP:O	1:F:104:LEU:C	2.61	0.44
1:F:225:ASN:OD1	1:F:229:VAL:HG12	2.18	0.44
1:F:316:ASN:O	1:F:317:MET:HG2	2.18	0.44
1:G:103:ASP:O	1:G:105:ARG:N	2.51	0.44
1:G:222:PHE:HB3	1:G:255:PHE:HB3	2.00	0.44
1:H:68:LEU:HD11	1:H:141:ILE:HD12	1.98	0.44
1:H:102:GLY:O	1:H:103:ASP:C	2.61	0.44
1:H:120:GLY:CA	1:H:123:ARG:HB2	2.47	0.44
1:H:261:THR:HB	1:H:262:PRO:HD2	2.00	0.44
1:H:316:ASN:N	1:H:321:ARG:O	2.51	0.44
1:H:434:TRP:CZ3	1:H:568:ARG:CB	2.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:560:LEU:CD1	1:H:601:PHE:HB2	2.48	0.44
1:A:579:ARG:NH1	1:D:580:ASP:CG	2.76	0.43
1:A:607:LEU:HD23	1:A:607:LEU:HA	1.88	0.43
1:B:216:ILE:HG21	1:B:273:LEU:CD1	2.48	0.43
1:B:438:ARG:HH11	1:B:568:ARG:HH21	1.63	0.43
1:B:560:LEU:HD23	1:B:560:LEU:C	2.44	0.43
1:C:105:ARG:CZ	1:C:149:GLU:OE2	2.65	0.43
1:C:118:LYS:CG	1:C:118:LYS:O	2.65	0.43
1:C:118:LYS:CB	1:C:264:HIS:C	2.91	0.43
1:C:314:VAL:C	1:C:315:MET:O	2.57	0.43
1:C:323:HIS:HB3	1:C:325:TYR:CE1	2.53	0.43
1:C:333:LEU:O	1:C:336:LEU:N	2.51	0.43
1:D:323:HIS:HB3	1:D:325:TYR:CE1	2.52	0.43
1:D:339:TRP:HA	1:D:342:GLN:CB	2.38	0.43
1:E:628:LYS:C	1:E:630:LYS:H	2.26	0.43
1:F:297:VAL:HG23	1:F:301:GLN:NE2	2.33	0.43
1:F:434:TRP:HZ3	1:F:568:ARG:CB	2.30	0.43
1:F:438:ARG:HG2	1:F:564:GLU:CG	2.48	0.43
1:F:471:SER:C	1:F:473:THR:N	2.76	0.43
1:H:171:LYS:O	1:H:171:LYS:CG	2.60	0.43
1:H:233:GLY:O	1:H:235:VAL:N	2.52	0.43
1:H:422:THR:CB	1:H:585:GLY:C	2.91	0.43
1:H:430:TRP:O	1:H:431:GLY:C	2.61	0.43
1:A:105:ARG:HG3	1:A:105:ARG:NH1	2.33	0.43
1:A:462:ASN:HD21	1:A:540:LEU:CB	2.29	0.43
1:A:580:ASP:CG	1:D:579:ARG:NH2	2.75	0.43
1:B:84:GLN:HB3	1:B:85:LYS:H	1.50	0.43
1:B:216:ILE:HG21	1:B:273:LEU:HD12	1.99	0.43
1:B:571:TYR:CE2	1:B:590:MET:CG	3.00	0.43
1:C:81:ASP:HA	1:C:84:GLN:HE21	1.83	0.43
1:C:338:SER:OG	1:C:339:TRP:N	2.52	0.43
1:C:350:GLU:CG	1:C:391:ASP:HB2	2.48	0.43
1:C:480:LYS:HZ2	1:C:525:GLY:C	2.25	0.43
1:D:50:LEU:H	1:D:55:ARG:CD	2.30	0.43
1:D:57:ARG:NE	1:D:177:GLU:O	2.51	0.43
1:D:233:GLY:O	1:D:235:VAL:N	2.49	0.43
1:D:502:GLU:OE1	1:D:502:GLU:N	2.51	0.43
1:E:153:LEU:HD23	1:E:162:HIS:HB3	1.99	0.43
1:E:247:ASP:HB3	1:E:248:ASP:H	1.52	0.43
1:E:358:GLY:O	1:E:359:LEU:CB	2.60	0.43
1:F:441:LYS:HD2	1:F:561:ASP:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:143:HIS:NE2	1:G:167:LEU:HB2	2.34	0.43
1:G:144:ARG:HD2	1:G:171:LYS:HB2	2.00	0.43
1:G:297:VAL:HG23	1:G:301:GLN:NE2	2.33	0.43
1:G:430:TRP:CD2	1:G:574:LEU:HD22	2.53	0.43
1:H:212:ALA:O	1:H:215:CYS:N	2.51	0.43
1:H:470:ASN:HD22	1:H:470:ASN:N	2.16	0.43
1:A:102:GLY:HA3	1:A:152:VAL:HG13	1.99	0.43
1:A:121:PRO:HA	1:A:124:THR:OG1	2.19	0.43
1:A:260:PRO:HB3	1:A:273:LEU:HD22	2.00	0.43
1:A:296:ASN:CG	1:A:297:VAL:N	2.77	0.43
1:A:316:ASN:O	1:A:317:MET:HG2	2.18	0.43
1:B:74:VAL:CG2	1:B:165:ILE:HA	2.48	0.43
1:B:190:ALA:O	1:B:191:PRO:C	2.61	0.43
1:B:451:GLN:NE2	1:B:611:GLN:C	2.77	0.43
1:C:139:ASN:O	1:C:141:ILE:HG13	2.18	0.43
1:C:191:PRO:HG3	1:C:234:LYS:HZ3	1.82	0.43
1:C:276:TRP:CZ2	1:C:280:MET:HG3	2.53	0.43
1:C:422:THR:OG1	1:C:585:GLY:O	2.36	0.43
1:C:500:GLN:C	1:C:505:ILE:HG12	2.42	0.43
1:D:102:GLY:O	1:D:103:ASP:C	2.61	0.43
1:D:268:ILE:HD12	1:D:268:ILE:HA	1.86	0.43
1:D:394:LYS:HB2	1:D:613:SER:HB2	2.00	0.43
1:D:412:ILE:O	1:D:416:ASP:OD1	2.36	0.43
1:D:470:ASN:HD22	1:D:470:ASN:N	2.16	0.43
1:D:528:ARG:HA	1:D:530:VAL:HG22	2.00	0.43
1:E:117:LEU:O	1:E:117:LEU:HG	2.18	0.43
1:E:408:GLU:OE2	1:E:408:GLU:HA	2.18	0.43
1:F:18:LYS:HZ2	1:F:33:ILE:CD1	2.24	0.43
1:F:171:LYS:O	1:F:171:LYS:CG	2.60	0.43
1:F:485:PHE:C	1:F:485:PHE:CD1	2.96	0.43
1:G:470:ASN:HD22	1:G:470:ASN:N	2.16	0.43
1:H:408:GLU:OE2	1:H:408:GLU:HA	2.18	0.43
1:H:579:ARG:HA	1:H:582:ARG:NH2	2.33	0.43
1:A:109:ASN:O	1:A:110:GLN:C	2.61	0.43
1:A:222:PHE:HD2	1:A:224:PRO:HD2	1.83	0.43
1:A:276:TRP:HE3	1:A:277:LEU:HD23	1.83	0.43
1:A:435:GLN:O	1:A:439:ALA:N	2.50	0.43
1:A:470:ASN:HD22	1:A:470:ASN:N	2.16	0.43
1:A:646:ARG:C	1:A:647:GLN:OE1	2.61	0.43
1:B:19:GLU:HB3	1:B:20:ARG:H	1.66	0.43
1:B:503:PHE:C	1:B:505:ILE:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:493:ASP:C	1:C:495:GLU:H	2.27	0.43
1:C:655:TRP:HZ2	1:D:497:TYR:HB2	1.82	0.43
1:D:19:GLU:HB3	1:D:20:ARG:H	1.65	0.43
1:D:21:LEU:HD12	1:D:29:VAL:HG12	2.00	0.43
1:D:116:GLY:N	1:D:217:THR:O	2.50	0.43
1:D:226:TRP:HD1	1:D:227:GLN:N	2.06	0.43
1:D:281:LEU:O	1:D:282:MET:HG2	2.19	0.43
1:D:394:LYS:CB	1:D:613:SER:HB2	2.48	0.43
1:D:410:VAL:O	1:D:411:SER:C	2.61	0.43
1:D:646:ARG:C	1:D:647:GLN:OE1	2.61	0.43
1:E:55:ARG:HE	1:E:55:ARG:HB2	1.54	0.43
1:E:109:ASN:O	1:E:110:GLN:C	2.61	0.43
1:E:137:HIS:ND1	1:E:201:VAL:HG13	2.33	0.43
1:E:394:LYS:HE3	1:E:609:TYR:O	2.19	0.43
1:E:433:ILE:HB	1:E:571:TYR:OH	2.18	0.43
1:E:505:ILE:HG13	1:E:505:ILE:H	1.52	0.43
1:F:131:SER:C	1:F:134:ARG:HB3	2.44	0.43
1:F:281:LEU:O	1:F:282:MET:HG2	2.17	0.43
1:F:317:MET:HA	1:F:609:TYR:OH	2.19	0.43
1:F:660:ILE:C	1:F:662:CYS:N	2.68	0.43
1:G:412:ILE:O	1:G:416:ASP:OD1	2.36	0.43
1:G:414:LEU:O	1:G:418:LYS:HB2	2.19	0.43
1:G:533:LEU:O	1:G:537:MET:HG2	2.18	0.43
1:G:581:GLN:H	1:G:582:ARG:HD2	1.83	0.43
1:H:50:LEU:H	1:H:55:ARG:CD	2.31	0.43
1:H:146:LEU:HB3	1:H:207:SER:HB2	2.00	0.43
1:H:430:TRP:CB	1:H:571:TYR:HD2	2.29	0.43
1:H:455:MET:HE1	1:H:548:GLN:CA	2.47	0.43
1:A:281:LEU:O	1:A:282:MET:HG2	2.18	0.43
1:A:323:HIS:HB3	1:A:325:TYR:CE1	2.53	0.43
1:B:189:LEU:CG	1:B:190:ALA:N	2.65	0.43
1:B:253:VAL:HB	1:B:255:PHE:CE1	2.52	0.43
1:C:191:PRO:HG3	1:C:234:LYS:HZ2	1.83	0.43
1:C:478:GLN:O	1:C:482:LYS:HB3	2.19	0.43
1:C:486:PHE:HZ	1:C:517:MET:CE	2.31	0.43
1:C:654:LEU:HD22	1:D:654:LEU:HD22	2.00	0.43
1:D:172:GLU:O	1:D:173:LEU:C	2.62	0.43
1:D:346:ILE:HG23	1:D:346:ILE:O	2.18	0.43
1:D:480:LYS:NZ	1:D:640:GLU:OE1	2.49	0.43
1:D:511:LEU:HD21	1:D:515:ARG:NH2	2.34	0.43
1:D:533:LEU:O	1:D:537:MET:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:581:GLN:H	1:D:582:ARG:HD2	1.84	0.43
1:E:144:ARG:HD2	1:E:171:LYS:HB2	2.01	0.43
1:E:319:SER:OG	1:E:403:LEU:HB3	2.17	0.43
1:E:490:ILE:O	1:E:490:ILE:CG2	2.67	0.43
1:F:125:LEU:HD12	1:F:129:ILE:HG12	2.00	0.43
1:G:346:ILE:HG23	1:G:346:ILE:O	2.18	0.43
1:H:246:TYR:CE1	1:H:258:VAL:HB	2.45	0.43
1:A:412:ILE:O	1:A:416:ASP:OD1	2.37	0.43
1:A:502:GLU:OE1	1:A:502:GLU:N	2.51	0.43
1:A:505:ILE:O	1:A:505:ILE:HG22	2.18	0.43
1:A:606:ILE:O	1:A:607:LEU:C	2.59	0.43
1:B:646:ARG:CG	1:B:647:GLN:NE2	2.54	0.43
1:C:16:GLU:C	1:C:17:MET:HG3	2.43	0.43
1:C:25:GLY:O	1:C:181:GLU:HG3	2.19	0.43
1:C:478:GLN:OE1	1:D:481:ALA:HB3	2.19	0.43
1:C:581:GLN:H	1:C:582:ARG:HD2	1.83	0.43
1:D:494:LEU:HD13	1:D:514:TRP:HB3	2.01	0.43
1:E:131:SER:C	1:E:134:ARG:HB3	2.43	0.43
1:E:208:PHE:O	1:E:211:LEU:HB3	2.19	0.43
1:E:312:LEU:HA	1:E:312:LEU:HD23	1.48	0.43
1:E:506:THR:HG22	1:E:507:SER:H	1.82	0.43
1:E:579:ARG:HA	1:E:582:ARG:NH2	2.34	0.43
1:F:412:ILE:HG12	1:F:433:ILE:HD13	2.01	0.43
1:F:607:LEU:HD23	1:F:607:LEU:HA	1.85	0.43
1:G:131:SER:C	1:G:134:ARG:HB3	2.44	0.43
1:H:110:GLN:O	1:H:111:PHE:CB	2.34	0.43
1:H:249:LEU:HB3	1:H:250:THR:H	1.35	0.43
1:H:437:ILE:HG13	1:H:594:LEU:HD12	2.01	0.43
1:B:296:ASN:CG	1:B:297:VAL:N	2.77	0.43
1:B:307:LEU:O	1:B:307:LEU:HD23	2.19	0.43
1:B:312:LEU:HA	1:B:312:LEU:HD23	1.50	0.43
1:B:658:LEU:C	1:B:660:ILE:H	2.27	0.43
1:C:148:PRO:HG3	1:C:188:TYR:OH	2.18	0.43
1:C:254:LYS:O	1:C:255:PHE:CG	2.72	0.43
1:C:505:ILE:HG13	1:C:505:ILE:H	1.56	0.43
1:C:607:LEU:HD23	1:C:607:LEU:HA	1.85	0.43
1:C:659:LYS:CD	1:D:500:GLN:HE22	2.32	0.43
1:D:261:THR:HB	1:D:262:PRO:HD2	2.01	0.43
1:E:233:GLY:O	1:E:235:VAL:N	2.49	0.43
1:E:319:SER:HB3	1:E:402:SER:O	2.19	0.43
1:E:571:TYR:CE2	1:E:590:MET:CG	3.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:422:THR:HG22	1:F:426:LEU:CD2	2.47	0.43
1:F:614:LYS:HA	1:F:614:LYS:HD3	1.75	0.43
1:G:277:LEU:C	1:G:279:CYS:N	2.76	0.43
1:A:233:GLY:O	1:A:235:VAL:N	2.51	0.43
1:A:467:LYS:HD3	1:A:467:LYS:HA	1.75	0.43
1:B:118:LYS:CB	1:B:264:HIS:O	2.66	0.43
1:C:110:GLN:HB3	1:C:113:ASN:ND2	2.34	0.43
1:C:296:ASN:ND2	1:C:302:ALA:HB2	2.34	0.43
1:C:408:GLU:OE2	1:C:408:GLU:HA	2.17	0.43
1:C:579:ARG:HA	1:C:582:ARG:NH2	2.34	0.43
1:C:655:TRP:CD1	1:D:496:LYS:CB	2.95	0.43
1:D:115:CYS:CB	1:D:435:GLN:HG3	2.48	0.43
1:D:208:PHE:O	1:D:211:LEU:HB3	2.19	0.43
1:D:226:TRP:CG	1:D:227:GLN:N	2.61	0.43
1:D:276:TRP:CE2	1:D:280:MET:HG3	2.54	0.43
1:E:103:ASP:O	1:E:104:LEU:C	2.61	0.43
1:E:185:THR:CG2	1:E:187:GLN:CG	2.80	0.43
1:E:206:TRP:CD1	1:E:207:SER:N	2.87	0.43
1:E:433:ILE:HG21	1:E:571:TYR:OH	2.19	0.43
1:E:571:TYR:CE2	1:E:590:MET:SD	3.11	0.43
1:F:206:TRP:CD1	1:F:207:SER:N	2.87	0.43
1:G:225:ASN:OD1	1:G:229:VAL:HG12	2.17	0.43
1:G:268:ILE:HD12	1:G:268:ILE:HA	1.92	0.43
1:H:102:GLY:HA3	1:H:152:VAL:HG13	2.00	0.43
1:A:50:LEU:H	1:A:55:ARG:CD	2.30	0.43
1:A:272:LYS:CG	1:A:273:LEU:N	2.68	0.43
1:B:190:ALA:HB2	1:B:206:TRP:CD1	2.54	0.43
1:B:222:PHE:HB3	1:B:255:PHE:HB3	2.00	0.43
1:B:482:LYS:C	1:B:484:ASP:N	2.76	0.43
1:B:594:LEU:O	1:B:598:ILE:HG13	2.19	0.43
1:C:102:GLY:CA	1:C:152:VAL:HG13	2.49	0.43
1:C:485:PHE:CD1	1:C:485:PHE:C	2.97	0.43
1:C:485:PHE:CG	1:D:485:PHE:CD2	3.06	0.43
1:D:102:GLY:CA	1:D:152:VAL:HG13	2.49	0.43
1:D:190:ALA:O	1:D:191:PRO:C	2.61	0.43
1:D:219:PHE:CE1	1:D:428:ARG:NE	2.87	0.43
1:D:567:ALA:O	1:D:571:TYR:HD1	2.02	0.43
1:D:606:ILE:O	1:D:607:LEU:C	2.61	0.43
1:E:339:TRP:HA	1:E:342:GLN:CB	2.36	0.43
1:E:387:ILE:HD12	1:E:450:GLY:HA2	2.01	0.43
1:E:390:PHE:N	1:E:390:PHE:CD1	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:435:GLN:O	1:E:439:ALA:N	2.51	0.43
1:E:524:CYS:SG	1:E:643:VAL:HG11	2.59	0.43
1:E:646:ARG:C	1:E:647:GLN:OE1	2.61	0.43
1:F:250:THR:C	1:F:251:GLY:O	2.61	0.43
1:F:361:LEU:HA	1:F:361:LEU:HD23	1.85	0.43
1:F:528:ARG:HA	1:F:530:VAL:HG22	2.01	0.43
1:F:579:ARG:HA	1:F:582:ARG:NH2	2.33	0.43
1:G:195:GLU:O	1:G:196:GLN:HB2	2.19	0.43
1:G:361:LEU:HD23	1:G:361:LEU:HA	1.85	0.43
1:G:455:MET:HE3	1:G:455:MET:HB2	1.92	0.43
1:H:307:LEU:HD23	1:H:307:LEU:O	2.18	0.43
1:H:416:ASP:OD1	1:H:416:ASP:N	2.39	0.43
1:A:120:GLY:CA	1:A:123:ARG:HB2	2.47	0.43
1:A:387:ILE:HD12	1:A:450:GLY:N	2.34	0.43
1:A:416:ASP:C	1:A:418:LYS:H	2.27	0.43
1:B:346:ILE:HG23	1:B:346:ILE:O	2.18	0.43
1:B:449:GLN:NE2	1:B:453:THR:CG2	2.82	0.43
1:C:68:LEU:HB3	1:C:135:TYR:HE2	1.83	0.43
1:C:171:LYS:O	1:C:171:LYS:CG	2.62	0.43
1:C:665:VAL:CG2	1:D:665:VAL:CG2	2.96	0.43
1:D:68:LEU:HB3	1:D:135:TYR:CE2	2.52	0.43
1:D:105:ARG:HG3	1:D:105:ARG:NH1	2.31	0.43
1:D:212:ALA:O	1:D:215:CYS:N	2.52	0.43
1:D:263:ASN:CG	1:D:264:HIS:N	2.76	0.43
1:E:296:ASN:ND2	1:E:302:ALA:HB2	2.33	0.43
1:E:563:LEU:CD2	1:E:596:LEU:HB2	2.36	0.43
1:F:312:LEU:HA	1:F:312:LEU:HD23	1.50	0.43
1:F:408:GLU:OE2	1:F:408:GLU:HA	2.19	0.43
1:G:140:ARG:NH2	1:G:174:ASP:OD2	2.51	0.43
1:G:153:LEU:HD22	1:G:162:HIS:HD1	1.81	0.43
1:G:433:ILE:HG21	1:G:571:TYR:OH	2.19	0.43
1:G:533:LEU:HD22	1:G:629:VAL:HG13	2.00	0.43
1:G:560:LEU:HD23	1:G:560:LEU:C	2.42	0.43
1:G:567:ALA:HA	1:G:590:MET:HE1	2.01	0.43
1:H:125:LEU:CA	1:H:162:HIS:NE2	2.70	0.43
1:H:272:LYS:HG2	1:H:273:LEU:HA	2.01	0.43
1:H:606:ILE:O	1:H:607:LEU:C	2.60	0.43
1:A:68:LEU:HB3	1:A:135:TYR:CE2	2.53	0.42
1:A:297:VAL:HG23	1:A:301:GLN:HE21	1.83	0.42
1:A:373:ASP:O	1:A:374:CYS:CB	2.67	0.42
1:A:387:ILE:CD1	1:A:449:GLN:HG3	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:441:LYS:HB2	1:A:560:LEU:HD21	1.97	0.42
1:B:103:ASP:O	1:B:105:ARG:N	2.52	0.42
1:B:131:SER:C	1:B:134:ARG:HB3	2.44	0.42
1:B:336:LEU:O	1:B:340:LEU:N	2.52	0.42
1:B:430:TRP:HZ2	1:B:586:ASP:O	2.00	0.42
1:B:579:ARG:HA	1:B:582:ARG:NH2	2.34	0.42
1:C:209:GLY:O	1:C:212:ALA:HB3	2.19	0.42
1:C:246:TYR:CE1	1:C:258:VAL:HB	2.44	0.42
1:D:144:ARG:HD2	1:D:171:LYS:HB2	2.00	0.42
1:D:521:VAL:CG1	1:D:643:VAL:HG12	2.49	0.42
1:D:632:VAL:O	1:D:633:MET:SD	2.77	0.42
1:E:18:LYS:HD2	1:E:33:ILE:HB	1.99	0.42
1:E:121:PRO:HA	1:E:124:THR:OG1	2.19	0.42
1:E:260:PRO:HB3	1:E:273:LEU:HD22	2.00	0.42
1:E:590:MET:HE1	1:E:593:LEU:HD12	2.00	0.42
1:F:26:PHE:HE2	1:F:181:GLU:CD	2.24	0.42
1:F:233:GLY:O	1:F:235:VAL:N	2.52	0.42
1:F:410:VAL:O	1:F:411:SER:C	2.61	0.42
1:G:410:VAL:O	1:G:411:SER:C	2.60	0.42
1:H:119:GLU:CB	1:H:121:PRO:HB2	2.49	0.42
1:H:131:SER:C	1:H:134:ARG:HB3	2.44	0.42
1:H:269:LEU:C	1:H:271:GLY:N	2.72	0.42
1:A:103:ASP:O	1:A:104:LEU:C	2.61	0.42
1:A:139:ASN:O	1:A:141:ILE:HG13	2.19	0.42
1:A:225:ASN:OD1	1:A:229:VAL:HG12	2.19	0.42
1:A:276:TRP:CE2	1:A:280:MET:HG3	2.54	0.42
1:A:449:GLN:NE2	1:A:453:THR:CG2	2.82	0.42
1:B:50:LEU:H	1:B:55:ARG:CD	2.29	0.42
1:B:222:PHE:HE2	1:B:225:ASN:HB2	1.71	0.42
1:B:281:LEU:O	1:B:282:MET:HG2	2.19	0.42
1:B:540:LEU:HD22	1:B:621:LYS:HE3	2.00	0.42
1:C:146:LEU:HB3	1:C:207:SER:HB2	2.00	0.42
1:C:316:ASN:O	1:C:317:MET:HG2	2.19	0.42
1:C:416:ASP:HB3	1:C:591:VAL:HG13	2.01	0.42
1:C:430:TRP:CB	1:C:571:TYR:CD2	3.02	0.42
1:C:436:THR:O	1:C:440:LEU:HG	2.19	0.42
1:C:452:ARG:HE	1:C:550:ASN:HD22	1.67	0.42
1:C:482:LYS:C	1:C:484:ASP:N	2.76	0.42
1:D:103:ASP:O	1:D:105:ARG:N	2.52	0.42
1:D:319:SER:OG	1:D:403:LEU:HB3	2.17	0.42
1:E:16:GLU:HB3	1:E:17:MET:H	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:124:THR:OG1	1:E:162:HIS:HE1	2.03	0.42
1:F:55:ARG:HE	1:F:55:ARG:HB2	1.52	0.42
1:F:105:ARG:CZ	1:F:149:GLU:OE2	2.67	0.42
1:G:408:GLU:OE2	1:G:408:GLU:HA	2.19	0.42
1:H:26:PHE:CE2	1:H:181:GLU:OE2	2.70	0.42
1:H:206:TRP:CD1	1:H:207:SER:N	2.88	0.42
1:H:277:LEU:C	1:H:279:CYS:N	2.77	0.42
1:H:434:TRP:O	1:H:435:GLN:C	2.60	0.42
1:A:119:GLU:CB	1:A:121:PRO:HB2	2.50	0.42
1:B:148:PRO:HD2	1:B:149:GLU:OE2	2.19	0.42
1:B:316:ASN:O	1:B:317:MET:HG2	2.18	0.42
1:B:438:ARG:HH12	1:B:568:ARG:HH21	1.66	0.42
1:B:545:VAL:HG13	1:B:548:GLN:NE2	2.35	0.42
1:C:131:SER:C	1:C:134:ARG:HB3	2.44	0.42
1:C:213:PHE:CE2	1:C:217:THR:OG1	2.69	0.42
1:C:233:GLY:O	1:C:235:VAL:N	2.52	0.42
1:C:425:HIS:C	1:C:426:LEU:HD23	2.45	0.42
1:C:501:MET:C	1:C:505:ILE:HD11	2.44	0.42
1:D:118:LYS:CG	1:D:118:LYS:O	2.65	0.42
1:D:125:LEU:HD12	1:D:129:ILE:HG12	2.01	0.42
1:E:494:LEU:CD1	1:E:514:TRP:HB3	2.50	0.42
1:E:529:GLU:HG3	1:E:633:MET:HE3	2.01	0.42
1:F:296:ASN:CG	1:F:297:VAL:N	2.75	0.42
1:F:346:ILE:HG23	1:F:346:ILE:O	2.19	0.42
1:G:19:GLU:HB3	1:G:20:ARG:H	1.66	0.42
1:G:70:HIS:HB3	1:G:73:VAL:CG1	2.49	0.42
1:G:110:GLN:HB3	1:G:113:ASN:ND2	2.33	0.42
1:G:118:LYS:NZ	1:G:123:ARG:HH12	2.17	0.42
1:G:245:VAL:O	1:G:257:SER:C	2.62	0.42
1:H:338:SER:OG	1:H:339:TRP:N	2.52	0.42
1:H:350:GLU:CG	1:H:391:ASP:HB2	2.47	0.42
1:H:628:LYS:C	1:H:630:LYS:H	2.28	0.42
1:A:124:THR:OG1	1:A:162:HIS:HE1	2.02	0.42
1:A:219:PHE:HB2	1:A:220:ARG:H	1.55	0.42
1:A:312:LEU:HA	1:A:312:LEU:HD23	1.50	0.42
1:A:358:GLY:O	1:A:359:LEU:CB	2.59	0.42
1:B:406:HIS:HA	1:B:407:PRO:HD2	1.83	0.42
1:B:438:ARG:CG	1:B:564:GLU:CG	2.95	0.42
1:C:50:LEU:H	1:C:55:ARG:CD	2.30	0.42
1:C:222:PHE:HE2	1:C:225:ASN:HB2	1.76	0.42
1:C:315:MET:SD	1:C:321:ARG:HA	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:412:ILE:HG12	1:C:433:ILE:HD13	2.01	0.42
1:C:434:TRP:O	1:C:435:GLN:C	2.59	0.42
1:C:449:GLN:NE2	1:C:453:THR:CG2	2.82	0.42
1:C:470:ASN:N	1:C:470:ASN:HD22	2.18	0.42
1:D:17:MET:CB	1:D:32:TRP:HB3	2.36	0.42
1:D:186:LEU:CD2	1:D:227:GLN:HG2	2.47	0.42
1:D:195:GLU:O	1:D:196:GLN:HB2	2.19	0.42
1:E:402:SER:O	1:E:403:LEU:CB	2.66	0.42
1:E:481:ALA:O	1:E:484:ASP:HB2	2.20	0.42
1:E:496:LYS:CB	1:F:655:TRP:NE1	2.39	0.42
1:F:25:GLY:O	1:F:181:GLU:HG3	2.19	0.42
1:F:110:GLN:HB3	1:F:113:ASN:ND2	2.34	0.42
1:F:118:LYS:CB	1:F:264:HIS:O	2.67	0.42
1:F:189:LEU:HD12	1:F:189:LEU:HA	1.69	0.42
1:F:247:ASP:HB3	1:F:248:ASP:H	1.51	0.42
1:F:317:MET:HE3	1:F:609:TYR:OH	2.20	0.42
1:F:323:HIS:HB3	1:F:325:TYR:CE1	2.55	0.42
1:F:433:ILE:HB	1:F:571:TYR:OH	2.19	0.42
1:F:437:ILE:HG22	1:F:564:GLU:HB2	2.00	0.42
1:G:125:LEU:HD12	1:G:129:ILE:HG12	2.01	0.42
1:G:271:GLY:HA2	1:G:275:ARG:NH2	2.34	0.42
1:G:319:SER:C	1:G:321:ARG:N	2.66	0.42
1:G:350:GLU:CG	1:G:391:ASP:HB2	2.48	0.42
1:H:246:TYR:HB2	1:H:256:SER:HB3	2.00	0.42
1:H:296:ASN:CG	1:H:297:VAL:N	2.75	0.42
1:H:528:ARG:HA	1:H:530:VAL:HG22	2.02	0.42
1:A:408:GLU:OE2	1:A:408:GLU:HA	2.18	0.42
1:A:436:THR:O	1:A:440:LEU:HG	2.20	0.42
1:A:482:LYS:C	1:A:484:ASP:H	2.26	0.42
1:B:244:VAL:HG22	1:B:282:MET:SD	2.60	0.42
1:B:336:LEU:O	1:B:337:LYS:C	2.63	0.42
1:B:447:LEU:HD12	1:B:605:VAL:CG2	2.49	0.42
1:B:471:SER:C	1:B:473:THR:N	2.76	0.42
1:B:479:LEU:HD11	1:B:641:LYS:HG3	2.00	0.42
1:C:60:LEU:HD21	1:C:175:GLN:HB3	2.01	0.42
1:C:412:ILE:O	1:C:416:ASP:OD1	2.38	0.42
1:C:452:ARG:HD2	1:C:550:ASN:ND2	2.35	0.42
1:C:528:ARG:HA	1:C:530:VAL:HG22	2.00	0.42
1:C:564:GLU:O	1:C:564:GLU:HG2	2.19	0.42
1:E:307:LEU:HD23	1:E:307:LEU:O	2.20	0.42
1:E:430:TRP:O	1:E:431:GLY:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:190:ALA:O	1:F:191:PRO:C	2.62	0.42
1:F:387:ILE:HD13	1:F:450:GLY:CA	2.46	0.42
1:F:402:SER:HB2	1:F:403:LEU:H	1.65	0.42
1:F:525:GLY:HA2	1:F:640:GLU:CG	2.49	0.42
1:F:628:LYS:C	1:F:630:LYS:H	2.27	0.42
1:F:629:VAL:O	1:F:629:VAL:HG12	2.19	0.42
1:G:50:LEU:H	1:G:55:ARG:CD	2.32	0.42
1:G:115:CYS:HB2	1:G:435:GLN:HG3	2.00	0.42
1:H:109:ASN:O	1:H:110:GLN:C	2.61	0.42
1:A:361:LEU:HD23	1:A:361:LEU:HA	1.86	0.42
1:A:661:ALA:HB1	1:B:662:CYS:SG	2.60	0.42
1:B:33:ILE:HD11	1:B:40:GLN:OE1	2.20	0.42
1:B:402:SER:HB2	1:B:403:LEU:H	1.65	0.42
1:B:533:LEU:O	1:B:537:MET:HG2	2.20	0.42
1:B:581:GLN:H	1:B:582:ARG:HD2	1.84	0.42
1:B:614:LYS:HD3	1:B:614:LYS:HA	1.80	0.42
1:C:486:PHE:O	1:C:486:PHE:CG	2.72	0.42
1:C:502:GLU:N	1:C:502:GLU:OE1	2.53	0.42
1:C:628:LYS:C	1:C:630:LYS:H	2.28	0.42
1:D:104:LEU:N	1:D:151:ILE:O	2.33	0.42
1:D:118:LYS:HG2	1:D:265:LEU:HA	2.02	0.42
1:D:153:LEU:CA	1:D:162:HIS:HB3	2.39	0.42
1:D:312:LEU:O	1:D:324:THR:HG23	2.20	0.42
1:D:571:TYR:CZ	1:D:590:MET:SD	3.12	0.42
1:E:333:LEU:O	1:E:336:LEU:N	2.53	0.42
1:E:503:PHE:C	1:E:505:ILE:HG13	2.45	0.42
1:F:118:LYS:CB	1:F:264:HIS:C	2.92	0.42
1:F:144:ARG:HD2	1:F:171:LYS:HB2	2.00	0.42
1:F:277:LEU:C	1:F:279:CYS:N	2.78	0.42
1:F:362:ASN:C	1:F:364:ALA:N	2.73	0.42
1:F:488:SER:O	1:F:492:ILE:HG22	2.20	0.42
1:G:316:ASN:O	1:G:317:MET:HG2	2.19	0.42
1:H:222:PHE:CE2	1:H:225:ASN:CB	2.90	0.42
1:H:315:MET:SD	1:H:321:ARG:HA	2.59	0.42
1:H:336:LEU:O	1:H:340:LEU:N	2.52	0.42
1:H:422:THR:HG21	1:H:586:ASP:C	2.45	0.42
1:H:438:ARG:HG2	1:H:564:GLU:CG	2.49	0.42
1:A:131:SER:C	1:A:134:ARG:HB3	2.44	0.42
1:A:434:TRP:O	1:A:435:GLN:C	2.61	0.42
1:B:125:LEU:HD21	1:B:215:CYS:SG	2.60	0.42
1:B:140:ARG:NH2	1:B:174:ASP:OD2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:260:PRO:C	1:B:261:THR:OG1	2.61	0.42
1:C:103:ASP:O	1:C:105:ARG:N	2.53	0.42
1:C:418:LYS:HB3	1:C:419:ARG:H	1.67	0.42
1:D:33:ILE:HG22	1:D:35:GLN:HA	2.02	0.42
1:D:148:PRO:HD2	1:D:149:GLU:OE2	2.20	0.42
1:E:140:ARG:NH2	1:E:174:ASP:OD2	2.51	0.42
1:E:245:VAL:O	1:E:257:SER:C	2.63	0.42
1:E:455:MET:HE3	1:E:455:MET:HB2	1.92	0.42
1:E:502:GLU:OE1	1:E:502:GLU:N	2.53	0.42
1:E:629:VAL:O	1:E:629:VAL:HG12	2.20	0.42
1:F:119:GLU:CB	1:F:121:PRO:HB2	2.49	0.42
1:F:125:LEU:CA	1:F:162:HIS:NE2	2.71	0.42
1:F:139:ASN:O	1:F:141:ILE:HG13	2.19	0.42
1:F:190:ALA:HB2	1:F:206:TRP:CG	2.55	0.42
1:F:261:THR:HB	1:F:262:PRO:HD2	2.01	0.42
1:F:434:TRP:O	1:F:435:GLN:C	2.61	0.42
1:G:434:TRP:CZ3	1:G:568:ARG:CG	2.95	0.42
1:G:579:ARG:HA	1:G:582:ARG:NH2	2.34	0.42
1:H:225:ASN:OD1	1:H:229:VAL:HG12	2.20	0.42
1:H:361:LEU:HD23	1:H:361:LEU:HA	1.87	0.42
1:H:470:ASN:ND2	1:H:537:MET:HE2	2.35	0.42
1:A:33:ILE:HD11	1:A:40:GLN:OE1	2.20	0.42
1:A:33:ILE:HG22	1:A:35:GLN:HA	2.02	0.42
1:A:144:ARG:HD2	1:A:171:LYS:HB2	2.02	0.42
1:A:478:GLN:HA	1:B:478:GLN:OE1	2.20	0.42
1:A:488:SER:O	1:A:489:SER:C	2.62	0.42
1:B:478:GLN:O	1:B:482:LYS:HB3	2.20	0.42
1:B:580:ASP:O	1:B:580:ASP:CG	2.63	0.42
1:B:628:LYS:C	1:B:630:LYS:H	2.27	0.42
1:C:18:LYS:HG3	1:C:35:GLN:HG2	2.02	0.42
1:C:416:ASP:OD1	1:C:416:ASP:N	2.39	0.42
1:D:102:GLY:HA3	1:D:152:VAL:HG13	2.02	0.42
1:E:120:GLY:O	1:E:123:ARG:CA	2.68	0.42
1:E:134:ARG:CB	1:E:300:PHE:CE1	2.97	0.42
1:F:225:ASN:HB3	1:F:226:TRP:H	1.69	0.42
1:F:272:LYS:HG2	1:F:273:LEU:HA	2.02	0.42
1:F:312:LEU:O	1:F:324:THR:HG23	2.20	0.42
1:F:350:GLU:CG	1:F:391:ASP:HB2	2.46	0.42
1:F:646:ARG:C	1:F:647:GLN:OE1	2.63	0.42
1:G:102:GLY:O	1:G:103:ASP:C	2.62	0.42
1:G:139:ASN:O	1:G:141:ILE:HG13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:189:LEU:CG	1:G:190:ALA:N	2.68	0.42
1:G:316:ASN:N	1:G:321:ARG:O	2.52	0.42
1:H:118:LYS:HZ2	1:H:123:ARG:HH12	1.67	0.42
1:H:262:PRO:HB3	1:H:409:SER:HG	1.82	0.42
1:H:273:LEU:O	1:H:276:TRP:N	2.53	0.42
1:H:581:GLN:H	1:H:582:ARG:HD2	1.85	0.42
1:B:312:LEU:O	1:B:324:THR:HG23	2.19	0.42
1:B:358:GLY:O	1:B:359:LEU:CB	2.63	0.42
1:C:33:ILE:HD11	1:C:40:GLN:OE1	2.20	0.42
1:C:125:LEU:CA	1:C:162:HIS:NE2	2.74	0.42
1:C:517:MET:CE	1:C:647:GLN:OE1	2.68	0.42
1:D:222:PHE:HB2	1:D:255:PHE:HD2	1.85	0.42
1:D:433:ILE:HG23	1:D:594:LEU:HD22	2.01	0.42
1:D:569:ASP:HA	1:D:572:ARG:HB3	2.02	0.42
1:D:650:ARG:HA	1:D:650:ARG:HD3	1.67	0.42
1:E:17:MET:CB	1:E:32:TRP:HB3	2.37	0.42
1:E:70:HIS:HB2	1:E:135:TYR:CD2	2.54	0.42
1:E:102:GLY:CA	1:E:152:VAL:HG13	2.49	0.42
1:E:235:VAL:CG1	1:E:243:ILE:N	2.74	0.42
1:E:272:LYS:HG2	1:E:273:LEU:HA	2.02	0.42
1:E:277:LEU:C	1:E:279:CYS:N	2.77	0.42
1:E:485:PHE:C	1:E:485:PHE:CD1	2.97	0.42
1:E:505:ILE:O	1:E:505:ILE:HG22	2.19	0.42
1:F:105:ARG:HG3	1:F:105:ARG:NH1	2.35	0.42
1:G:33:ILE:HD11	1:G:40:GLN:OE1	2.20	0.42
1:G:172:GLU:O	1:G:173:LEU:C	2.63	0.42
1:G:296:ASN:CG	1:G:297:VAL:N	2.77	0.42
1:G:406:HIS:HA	1:G:407:PRO:HD2	1.83	0.42
1:G:530:VAL:CA	1:G:533:LEU:HD12	2.32	0.42
1:G:614:LYS:HA	1:G:614:LYS:HD3	1.79	0.42
1:G:629:VAL:O	1:G:629:VAL:HG12	2.20	0.42
1:H:260:PRO:HB3	1:H:273:LEU:HD22	2.01	0.42
1:H:412:ILE:O	1:H:416:ASP:OD1	2.38	0.42
1:A:84:GLN:HB3	1:A:85:LYS:H	1.51	0.42
1:A:143:HIS:NE2	1:A:167:LEU:HB2	2.35	0.42
1:A:235:VAL:CG1	1:A:243:ILE:N	2.74	0.42
1:A:263:ASN:CG	1:A:264:HIS:N	2.78	0.42
1:A:426:LEU:O	1:A:430:TRP:N	2.46	0.42
1:B:269:LEU:HD22	1:B:272:LYS:HB3	2.02	0.42
1:B:500:GLN:HB3	1:B:505:ILE:HG13	2.00	0.42
1:B:503:PHE:N	1:B:505:ILE:HD11	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:517:MET:SD	1:B:650:ARG:HG3	2.60	0.42
1:C:74:VAL:HG21	1:C:165:ILE:HA	2.01	0.42
1:C:190:ALA:HB2	1:C:206:TRP:CG	2.55	0.42
1:C:307:LEU:HD23	1:C:307:LEU:O	2.20	0.42
1:C:438:ARG:HG2	1:C:564:GLU:CG	2.50	0.42
1:D:402:SER:HB2	1:D:403:LEU:H	1.65	0.42
1:E:110:GLN:HB3	1:E:113:ASN:ND2	2.34	0.42
1:E:172:GLU:O	1:E:173:LEU:C	2.63	0.42
1:F:124:THR:OG1	1:F:162:HIS:HE1	2.02	0.42
1:G:21:LEU:HD12	1:G:29:VAL:HG12	2.00	0.42
1:G:110:GLN:O	1:G:111:PHE:CB	2.37	0.42
1:G:146:LEU:C	1:G:147:LYS:HG2	2.45	0.42
1:G:253:VAL:HB	1:G:255:PHE:CE1	2.54	0.42
1:G:422:THR:HG22	1:G:426:LEU:CD2	2.49	0.42
1:G:528:ARG:HA	1:G:530:VAL:HG22	2.02	0.42
1:H:118:LYS:HZ1	1:H:123:ARG:HH22	1.68	0.42
1:A:503:PHE:HB3	1:B:662:CYS:SG	2.60	0.41
1:B:33:ILE:HG23	1:B:39:GLU:H	1.85	0.41
1:C:16:GLU:HB3	1:C:17:MET:H	1.68	0.41
1:C:273:LEU:O	1:C:276:TRP:N	2.53	0.41
1:C:484:ASP:OD1	1:C:487:ARG:NH1	2.53	0.41
1:C:527:GLU:HG2	1:C:530:VAL:HG13	2.02	0.41
1:C:545:VAL:HG13	1:C:548:GLN:NE2	2.35	0.41
1:D:139:ASN:O	1:D:141:ILE:HG13	2.20	0.41
1:D:213:PHE:HD2	1:D:214:GLU:N	2.18	0.41
1:D:467:LYS:HD3	1:D:467:LYS:HA	1.75	0.41
1:D:482:LYS:C	1:D:484:ASP:N	2.78	0.41
1:D:588:ASN:C	1:D:590:MET:H	2.28	0.41
1:D:628:LYS:C	1:D:630:LYS:H	2.28	0.41
1:E:346:ILE:O	1:E:346:ILE:HG23	2.20	0.41
1:E:434:TRP:O	1:E:435:GLN:C	2.63	0.41
1:F:416:ASP:C	1:F:418:LYS:H	2.28	0.41
1:G:18:LYS:HZ2	1:G:33:ILE:CD1	2.30	0.41
1:G:276:TRP:HE3	1:G:277:LEU:HD23	1.84	0.41
1:A:172:GLU:O	1:A:173:LEU:C	2.63	0.41
1:A:210:THR:O	1:A:213:PHE:N	2.53	0.41
1:A:222:PHE:CE2	1:A:225:ASN:CB	2.89	0.41
1:A:297:VAL:HG23	1:A:301:GLN:NE2	2.35	0.41
1:A:478:GLN:O	1:A:482:LYS:HB3	2.20	0.41
1:A:533:LEU:O	1:A:537:MET:HG2	2.20	0.41
1:A:566:GLN:HG2	1:A:593:LEU:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:665:VAL:CG2	1:B:665:VAL:HG21	2.49	0.41
1:B:114:CYS:O	1:B:115:CYS:CB	2.64	0.41
1:C:114:CYS:O	1:C:115:CYS:CB	2.64	0.41
1:C:144:ARG:HD2	1:C:171:LYS:HB2	2.01	0.41
1:C:533:LEU:O	1:C:537:MET:HG2	2.20	0.41
1:C:569:ASP:HA	1:C:572:ARG:HB3	2.02	0.41
1:D:262:PRO:HG2	1:D:432:GLN:HG2	2.03	0.41
1:D:336:LEU:O	1:D:337:LYS:C	2.63	0.41
1:E:102:GLY:HA3	1:E:152:VAL:HG13	2.02	0.41
1:E:409:SER:CB	1:E:412:ILE:CD1	2.93	0.41
1:E:485:PHE:CD2	1:F:485:PHE:CD2	3.08	0.41
1:E:565:GLU:O	1:E:568:ARG:HB3	2.20	0.41
1:E:665:VAL:HG11	1:F:664:LYS:O	2.20	0.41
1:F:18:LYS:HG3	1:F:35:GLN:HG2	2.03	0.41
1:F:26:PHE:CE2	1:F:181:GLU:OE1	2.68	0.41
1:F:102:GLY:O	1:F:103:ASP:C	2.62	0.41
1:F:165:ILE:O	1:F:167:LEU:N	2.48	0.41
1:F:222:PHE:HB2	1:F:255:PHE:HD2	1.85	0.41
1:F:254:LYS:N	1:F:255:PHE:CE1	2.87	0.41
1:F:352:GLU:OE1	1:F:619:LYS:NZ	2.32	0.41
1:G:185:THR:CG2	1:G:187:GLN:CG	2.80	0.41
1:G:213:PHE:HD2	1:G:214:GLU:N	2.18	0.41
1:H:124:THR:O	1:H:127:SER:N	2.52	0.41
1:H:148:PRO:HD2	1:H:149:GLU:OE2	2.20	0.41
1:H:222:PHE:HB2	1:H:255:PHE:HD2	1.84	0.41
1:A:104:LEU:N	1:A:151:ILE:O	2.33	0.41
1:A:124:THR:O	1:A:127:SER:N	2.53	0.41
1:A:268:ILE:HD12	1:A:268:ILE:HA	1.91	0.41
1:A:430:TRP:CB	1:A:571:TYR:HD2	2.27	0.41
1:B:172:GLU:O	1:B:173:LEU:C	2.62	0.41
1:B:193:LEU:O	1:B:194:LEU:C	2.63	0.41
1:B:195:GLU:O	1:B:196:GLN:HB2	2.20	0.41
1:C:245:VAL:O	1:C:257:SER:C	2.63	0.41
1:D:316:ASN:O	1:D:317:MET:HG2	2.21	0.41
1:D:494:LEU:CD1	1:D:514:TRP:HB3	2.50	0.41
1:D:563:LEU:HD21	1:D:596:LEU:HB2	2.02	0.41
1:E:33:ILE:HG22	1:E:35:GLN:HA	2.03	0.41
1:E:103:ASP:O	1:E:106:LYS:N	2.53	0.41
1:E:120:GLY:CA	1:E:123:ARG:HB2	2.48	0.41
1:E:222:PHE:CB	1:E:255:PHE:HB3	2.50	0.41
1:E:434:TRP:HZ3	1:E:568:ARG:HA	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:118:LYS:HG2	1:F:265:LEU:CA	2.46	0.41
1:F:502:GLU:N	1:F:502:GLU:OE1	2.53	0.41
1:F:517:MET:CG	1:F:646:ARG:HH11	2.18	0.41
1:G:42:ALA:C	1:G:43:ILE:HD12	2.46	0.41
1:G:109:ASN:O	1:G:110:GLN:C	2.62	0.41
1:H:291:ASP:HA	1:H:292:PRO:HD3	1.82	0.41
1:H:443:ASP:O	1:H:446:ARG:CB	2.62	0.41
1:A:315:MET:SD	1:A:321:ARG:HA	2.61	0.41
1:A:444:CYS:C	1:A:446:ARG:H	2.28	0.41
1:A:564:GLU:O	1:A:564:GLU:HG2	2.19	0.41
1:B:70:HIS:HB3	1:B:73:VAL:CG1	2.50	0.41
1:C:89:ASN:C	1:C:91:LEU:N	2.77	0.41
1:C:222:PHE:HB2	1:C:255:PHE:HD2	1.85	0.41
1:D:118:LYS:NZ	1:D:123:ARG:HH12	2.18	0.41
1:D:234:LYS:O	1:D:235:VAL:O	2.38	0.41
1:D:246:TYR:CE1	1:D:258:VAL:HB	2.46	0.41
1:D:414:LEU:O	1:D:418:LYS:HB2	2.20	0.41
1:E:470:ASN:HD22	1:E:470:ASN:N	2.18	0.41
1:E:560:LEU:HD23	1:E:560:LEU:C	2.46	0.41
1:E:581:GLN:H	1:E:582:ARG:HD2	1.86	0.41
1:F:102:GLY:CA	1:F:152:VAL:HG13	2.50	0.41
1:F:260:PRO:C	1:F:261:THR:HG1	2.28	0.41
1:F:268:ILE:HD12	1:F:268:ILE:HA	1.90	0.41
1:F:357:SER:CB	1:F:453:THR:HB	2.51	0.41
1:F:479:LEU:HB3	1:F:640:GLU:OE2	2.21	0.41
1:G:18:LYS:HG3	1:G:35:GLN:HG2	2.03	0.41
1:G:102:GLY:CA	1:G:152:VAL:HG13	2.51	0.41
1:H:189:LEU:CG	1:H:190:ALA:N	2.70	0.41
1:H:213:PHE:O	1:H:214:GLU:C	2.63	0.41
1:H:222:PHE:HE2	1:H:225:ASN:HB2	1.72	0.41
1:H:260:PRO:C	1:H:261:THR:HG1	2.28	0.41
1:A:110:GLN:HB3	1:A:113:ASN:ND2	2.35	0.41
1:A:118:LYS:CB	1:A:264:HIS:C	2.93	0.41
1:A:422:THR:HG22	1:A:426:LEU:CD2	2.47	0.41
1:A:493:ASP:C	1:A:495:GLU:H	2.27	0.41
1:A:547:LEU:HD22	1:A:611:GLN:HG2	2.01	0.41
1:B:254:LYS:C	1:B:255:PHE:CD1	2.99	0.41
1:B:428:ARG:HB2	1:B:429:VAL:H	1.69	0.41
1:C:416:ASP:C	1:C:418:LYS:H	2.29	0.41
1:C:536:LYS:CB	1:C:625:LEU:HD13	2.16	0.41
1:D:70:HIS:HB3	1:D:73:VAL:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:260:PRO:C	1:D:261:THR:OG1	2.64	0.41
1:D:614:LYS:HD3	1:D:614:LYS:HA	1.79	0.41
1:E:42:ALA:C	1:E:43:ILE:HD12	2.46	0.41
1:E:424:THR:HG1	1:E:425:HIS:HD1	1.54	0.41
1:E:501:MET:C	1:E:505:ILE:HD11	2.46	0.41
1:F:89:ASN:C	1:F:91:LEU:N	2.77	0.41
1:F:244:VAL:HG22	1:F:282:MET:SD	2.61	0.41
1:F:260:PRO:HB2	1:F:273:LEU:CD1	2.47	0.41
1:G:55:ARG:HE	1:G:55:ARG:HB2	1.54	0.41
1:G:226:TRP:HD1	1:G:227:GLN:N	2.10	0.41
1:G:632:VAL:HB	1:G:633:MET:HE2	2.02	0.41
1:H:32:TRP:HD1	1:H:43:ILE:HD13	1.85	0.41
1:H:33:ILE:HG22	1:H:35:GLN:HA	2.02	0.41
1:H:146:LEU:C	1:H:147:LYS:HG2	2.46	0.41
1:H:423:TYR:CE1	1:H:425:HIS:O	2.74	0.41
1:A:70:HIS:HB3	1:A:73:VAL:CG1	2.50	0.41
1:A:195:GLU:O	1:A:196:GLN:HB2	2.20	0.41
1:A:510:LEU:HD22	1:A:653:GLU:HB2	2.02	0.41
1:A:517:MET:HG3	1:A:646:ARG:HH11	1.85	0.41
1:A:581:GLN:H	1:A:582:ARG:HD2	1.84	0.41
1:B:120:GLY:O	1:B:123:ARG:CA	2.69	0.41
1:B:120:GLY:C	1:B:123:ARG:H	2.29	0.41
1:B:261:THR:HB	1:B:262:PRO:HD2	2.02	0.41
1:B:488:SER:O	1:B:492:ILE:HG22	2.20	0.41
1:C:346:ILE:HA	1:C:347:PRO:HD3	1.83	0.41
1:C:435:GLN:O	1:C:439:ALA:N	2.51	0.41
1:D:209:GLY:O	1:D:212:ALA:HB3	2.21	0.41
1:E:500:GLN:HE22	1:F:659:LYS:HG2	1.85	0.41
1:E:563:LEU:HD21	1:E:596:LEU:CB	2.35	0.41
1:F:33:ILE:HG22	1:F:35:GLN:HA	2.02	0.41
1:F:234:LYS:O	1:F:235:VAL:O	2.38	0.41
1:F:235:VAL:CG1	1:F:243:ILE:N	2.72	0.41
1:F:459:LEU:O	1:F:459:LEU:HD23	2.21	0.41
1:F:473:THR:HB	1:F:533:LEU:HD13	2.03	0.41
1:F:581:GLN:H	1:F:582:ARG:HD2	1.85	0.41
1:G:472:MET:CG	1:G:633:MET:CB	2.99	0.41
1:H:18:LYS:HG3	1:H:35:GLN:HG2	2.03	0.41
1:H:144:ARG:HD2	1:H:171:LYS:HB2	2.01	0.41
1:H:195:GLU:O	1:H:196:GLN:HB2	2.20	0.41
1:H:346:ILE:HG23	1:H:346:ILE:O	2.20	0.41
1:A:206:TRP:CD1	1:A:207:SER:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:307:LEU:O	1:A:307:LEU:HD23	2.21	0.41
1:A:437:ILE:CG1	1:A:594:LEU:HD12	2.50	0.41
1:A:658:LEU:CD1	1:B:658:LEU:HA	2.51	0.41
1:B:89:ASN:C	1:B:91:LEU:N	2.78	0.41
1:B:139:ASN:O	1:B:141:ILE:HG13	2.21	0.41
1:B:144:ARG:HD2	1:B:171:LYS:HB2	2.00	0.41
1:B:226:TRP:CG	1:B:227:GLN:N	2.62	0.41
1:B:265:LEU:HG	1:B:266:SER:H	1.86	0.41
1:C:119:GLU:CB	1:C:121:PRO:HB2	2.50	0.41
1:C:119:GLU:HB2	1:C:121:PRO:N	2.36	0.41
1:C:515:ARG:HA	1:C:518:GLU:OE2	2.20	0.41
1:C:539:ALA:O	1:C:543:ASP:HB2	2.20	0.41
1:D:18:LYS:HG3	1:D:35:GLN:HG2	2.02	0.41
1:D:222:PHE:HE2	1:D:225:ASN:HB2	1.72	0.41
1:D:449:GLN:NE2	1:D:453:THR:CG2	2.83	0.41
1:D:646:ARG:CG	1:D:647:GLN:NE2	2.54	0.41
1:E:33:ILE:HD11	1:E:40:GLN:OE1	2.20	0.41
1:E:387:ILE:HD12	1:E:450:GLY:CA	2.49	0.41
1:E:533:LEU:O	1:E:537:MET:HG2	2.20	0.41
1:E:569:ASP:HA	1:E:572:ARG:HB3	2.03	0.41
1:F:172:GLU:O	1:F:173:LEU:C	2.64	0.41
1:F:249:LEU:HB3	1:F:250:THR:H	1.38	0.41
1:F:533:LEU:O	1:F:537:MET:HG2	2.20	0.41
1:G:33:ILE:HG22	1:G:35:GLN:HA	2.02	0.41
1:G:103:ASP:O	1:G:104:LEU:C	2.63	0.41
1:G:336:LEU:O	1:G:337:LYS:C	2.63	0.41
1:B:412:ILE:HG12	1:B:433:ILE:HD13	2.03	0.41
1:B:455:MET:O	1:B:455:MET:CE	2.68	0.41
1:B:517:MET:HE3	1:B:646:ARG:CD	2.49	0.41
1:C:42:ALA:C	1:C:43:ILE:HD12	2.46	0.41
1:C:114:CYS:O	1:C:114:CYS:SG	2.79	0.41
1:C:189:LEU:HD12	1:C:207:SER:HB3	2.03	0.41
1:C:480:LYS:O	1:C:483:LEU:HB3	2.20	0.41
1:D:119:GLU:HB2	1:D:121:PRO:N	2.36	0.41
1:D:121:PRO:HA	1:D:124:THR:OG1	2.21	0.41
1:D:515:ARG:HA	1:D:518:GLU:OE2	2.19	0.41
1:D:540:LEU:HD13	1:D:622:ALA:HB2	2.03	0.41
1:E:105:ARG:HG3	1:E:105:ARG:NH1	2.31	0.41
1:E:139:ASN:O	1:E:141:ILE:HG13	2.21	0.41
1:F:222:PHE:CB	1:F:255:PHE:HB3	2.50	0.41
1:F:488:SER:O	1:F:489:SER:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:540:LEU:CD1	1:F:622:ALA:HB2	2.50	0.41
1:G:142:ILE:HG22	1:G:144:ARG:H	1.86	0.41
1:G:198:LYS:O	1:G:200:THR:N	2.42	0.41
1:G:606:ILE:O	1:G:607:LEU:C	2.63	0.41
1:H:25:GLY:HA2	1:H:169:TYR:OH	2.21	0.41
1:H:533:LEU:O	1:H:537:MET:HG2	2.20	0.41
1:H:564:GLU:HG2	1:H:564:GLU:O	2.20	0.41
1:H:610:ASP:O	1:H:613:SER:HB3	2.20	0.41
1:A:246:TYR:CE1	1:A:258:VAL:HB	2.45	0.41
1:A:471:SER:C	1:A:473:THR:N	2.79	0.41
1:A:560:LEU:C	1:A:560:LEU:HD23	2.46	0.41
1:B:55:ARG:HE	1:B:55:ARG:HB2	1.53	0.41
1:B:103:ASP:O	1:B:104:LEU:C	2.63	0.41
1:B:222:PHE:HB2	1:B:255:PHE:HD2	1.86	0.41
1:B:245:VAL:O	1:B:257:SER:C	2.63	0.41
1:B:285:GLN:O	1:B:285:GLN:CG	2.69	0.41
1:B:482:LYS:C	1:B:484:ASP:H	2.29	0.41
1:B:629:VAL:HG12	1:B:629:VAL:O	2.21	0.41
1:B:632:VAL:HB	1:B:633:MET:HE2	2.02	0.41
1:B:656:ASN:OD1	1:B:656:ASN:O	2.39	0.41
1:C:148:PRO:HD2	1:C:149:GLU:OE2	2.21	0.41
1:C:263:ASN:CG	1:C:264:HIS:N	2.79	0.41
1:C:387:ILE:HG21	1:C:450:GLY:HA2	2.03	0.41
1:C:437:ILE:HG12	1:C:597:ALA:HB3	2.03	0.41
1:C:493:ASP:C	1:C:495:GLU:N	2.79	0.41
1:C:560:LEU:HD23	1:C:560:LEU:C	2.45	0.41
1:C:654:LEU:HD12	1:D:655:TRP:CZ3	2.56	0.41
1:C:655:TRP:CZ3	1:D:654:LEU:HD12	2.56	0.41
1:D:72:ASN:O	1:D:164:ILE:HG22	2.21	0.41
1:D:118:LYS:CB	1:D:264:HIS:O	2.69	0.41
1:D:416:ASP:C	1:D:418:LYS:H	2.29	0.41
1:D:484:ASP:OD1	1:D:487:ARG:NH1	2.54	0.41
1:D:564:GLU:O	1:D:564:GLU:HG2	2.20	0.41
1:E:118:LYS:HB3	1:E:264:HIS:C	2.46	0.41
1:E:142:ILE:HG12	1:E:201:VAL:HA	2.02	0.41
1:E:193:LEU:O	1:E:194:LEU:C	2.64	0.41
1:E:260:PRO:HB2	1:E:273:LEU:CD1	2.50	0.41
1:E:268:ILE:HD12	1:E:268:ILE:HA	1.90	0.41
1:E:273:LEU:O	1:E:276:TRP:N	2.54	0.41
1:E:373:ASP:O	1:E:374:CYS:CB	2.67	0.41
1:E:459:LEU:HD23	1:E:459:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:471:SER:C	1:E:473:THR:N	2.78	0.41
1:E:486:PHE:O	1:E:486:PHE:CG	2.73	0.41
1:E:503:PHE:C	1:E:505:ILE:N	2.76	0.41
1:E:503:PHE:N	1:E:505:ILE:HD11	2.29	0.41
1:E:515:ARG:HA	1:E:518:GLU:OE2	2.21	0.41
1:E:527:GLU:HG2	1:E:530:VAL:CG1	2.50	0.41
1:E:528:ARG:HA	1:E:530:VAL:HG22	2.03	0.41
1:F:148:PRO:HG3	1:F:188:TYR:OH	2.21	0.41
1:F:276:TRP:HE3	1:F:277:LEU:HD23	1.85	0.41
1:F:475:GLU:HG2	1:F:636:MET:CE	2.45	0.41
1:F:500:GLN:C	1:F:505:ILE:HG12	2.46	0.41
1:F:579:ARG:NH2	1:G:580:ASP:HB3	2.36	0.41
1:G:118:LYS:HZ1	1:G:123:ARG:HH22	1.68	0.41
1:G:119:GLU:HB3	1:G:121:PRO:CD	2.43	0.41
1:G:273:LEU:O	1:G:276:TRP:N	2.54	0.41
1:G:276:TRP:CE2	1:G:280:MET:HG3	2.55	0.41
1:G:346:ILE:HA	1:G:347:PRO:HD3	1.84	0.41
1:G:567:ALA:O	1:G:571:TYR:CD1	2.74	0.41
1:G:628:LYS:C	1:G:630:LYS:H	2.29	0.41
1:H:107:TYR:CA	1:H:110:GLN:HB2	2.51	0.41
1:H:159:ARG:HD3	1:H:375:THR:HG21	2.03	0.41
1:H:169:TYR:CD2	1:H:169:TYR:N	2.89	0.41
1:H:425:HIS:C	1:H:426:LEU:HD23	2.45	0.41
1:H:591:VAL:O	1:H:592:ARG:C	2.64	0.41
1:A:148:PRO:HG3	1:A:188:TYR:OH	2.20	0.41
1:A:193:LEU:O	1:A:194:LEU:C	2.64	0.41
1:A:455:MET:O	1:A:455:MET:CE	2.65	0.41
1:B:125:LEU:HD12	1:B:129:ILE:HG12	2.02	0.41
1:B:254:LYS:C	1:B:255:PHE:CD2	2.97	0.41
1:B:373:ASP:O	1:B:374:CYS:CB	2.69	0.41
1:B:455:MET:HE3	1:B:455:MET:HB2	1.94	0.41
1:B:475:GLU:C	1:B:477:GLU:H	2.23	0.41
1:B:502:GLU:OE1	1:B:502:GLU:N	2.54	0.41
1:B:603:LYS:O	1:B:606:ILE:HG13	2.21	0.41
1:D:222:PHE:CB	1:D:255:PHE:HB3	2.51	0.41
1:D:346:ILE:HA	1:D:347:PRO:HD3	1.83	0.41
1:E:148:PRO:HD2	1:E:149:GLU:OE2	2.21	0.41
1:E:213:PHE:O	1:E:214:GLU:C	2.64	0.41
1:E:476:CYS:HB2	1:E:636:MET:SD	2.61	0.41
1:E:654:LEU:HD21	1:F:654:LEU:HD21	1.70	0.41
1:F:118:LYS:HZ2	1:F:123:ARG:HH12	1.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:210:THR:N	1:F:281:LEU:HD11	2.35	0.41
1:F:438:ARG:HG2	1:F:564:GLU:OE1	2.21	0.41
1:F:539:ALA:O	1:F:543:ASP:HB2	2.21	0.41
1:G:222:PHE:HB2	1:G:255:PHE:HD2	1.85	0.41
1:G:261:THR:HB	1:G:262:PRO:HD2	2.03	0.41
1:G:436:THR:O	1:G:440:LEU:HG	2.20	0.41
1:H:58:TRP:CZ3	1:H:62:ILE:HG13	2.57	0.41
1:H:140:ARG:NH2	1:H:174:ASP:OD2	2.52	0.41
1:H:276:TRP:CE2	1:H:280:MET:HG3	2.56	0.41
1:H:583:THR:O	1:H:585:GLY:N	2.54	0.41
1:A:150:ASN:ND2	1:A:167:LEU:CD1	2.82	0.40
1:A:277:LEU:C	1:A:279:CYS:N	2.75	0.40
1:B:260:PRO:HB2	1:B:273:LEU:CD1	2.49	0.40
1:B:505:ILE:O	1:B:505:ILE:HG22	2.22	0.40
1:C:186:LEU:HD23	1:C:227:GLN:HG2	2.03	0.40
1:C:208:PHE:O	1:C:211:LEU:HB3	2.22	0.40
1:C:357:SER:HB3	1:C:453:THR:CB	2.41	0.40
1:D:169:TYR:N	1:D:169:TYR:CD2	2.89	0.40
1:D:206:TRP:CD1	1:D:207:SER:N	2.89	0.40
1:E:50:LEU:N	1:E:55:ARG:HD3	2.35	0.40
1:E:467:LYS:HD3	1:E:467:LYS:HA	1.75	0.40
1:F:143:HIS:NE2	1:F:167:LEU:HB2	2.35	0.40
1:F:195:GLU:O	1:F:196:GLN:HB2	2.20	0.40
1:F:441:LYS:HB2	1:F:560:LEU:HD22	2.03	0.40
1:G:373:ASP:O	1:G:374:CYS:CB	2.68	0.40
1:H:68:LEU:HD11	1:H:141:ILE:CD1	2.51	0.40
1:H:172:GLU:O	1:H:173:LEU:C	2.63	0.40
1:H:437:ILE:HG12	1:H:597:ALA:HB3	2.03	0.40
1:H:449:GLN:O	1:H:453:THR:HG23	2.21	0.40
1:H:451:GLN:NE2	1:H:611:GLN:NE2	2.68	0.40
1:A:629:VAL:HG12	1:A:629:VAL:O	2.21	0.40
1:B:208:PHE:O	1:B:211:LEU:HB3	2.21	0.40
1:B:425:HIS:C	1:B:426:LEU:HD23	2.46	0.40
1:C:614:LYS:HD3	1:C:614:LYS:HA	1.80	0.40
1:D:269:LEU:HD23	1:D:269:LEU:HA	1.89	0.40
1:D:361:LEU:HD23	1:D:361:LEU:HA	1.85	0.40
1:D:493:ASP:C	1:D:495:GLU:H	2.29	0.40
1:D:567:ALA:O	1:D:571:TYR:CD1	2.74	0.40
1:D:658:LEU:C	1:D:660:ILE:H	2.29	0.40
1:E:336:LEU:O	1:E:340:LEU:N	2.54	0.40
1:E:428:ARG:HB2	1:E:429:VAL:H	1.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:545:VAL:HG13	1:E:548:GLN:NE2	2.36	0.40
1:F:33:ILE:HD11	1:F:40:GLN:OE1	2.21	0.40
1:F:497:TYR:CD2	1:F:511:LEU:HD22	2.50	0.40
1:G:212:ALA:O	1:G:215:CYS:N	2.55	0.40
1:G:423:TYR:CE1	1:G:425:HIS:O	2.74	0.40
1:G:571:TYR:OH	1:G:590:MET:SD	2.79	0.40
1:H:336:LEU:O	1:H:337:LYS:C	2.65	0.40
1:A:208:PHE:O	1:A:211:LEU:HB3	2.21	0.40
1:A:285:GLN:O	1:A:285:GLN:CG	2.69	0.40
1:A:438:ARG:HH11	1:A:568:ARG:HH21	1.67	0.40
1:A:449:GLN:O	1:A:453:THR:HG23	2.20	0.40
1:A:488:SER:O	1:A:492:ILE:HG22	2.21	0.40
1:B:276:TRP:CE2	1:B:280:MET:HG3	2.56	0.40
1:C:120:GLY:O	1:C:123:ARG:CA	2.69	0.40
1:C:135:TYR:O	1:C:139:ASN:ND2	2.52	0.40
1:C:434:TRP:HZ3	1:C:568:ARG:CB	2.35	0.40
1:C:441:LYS:HB2	1:C:560:LEU:HD21	2.02	0.40
1:C:481:ALA:O	1:C:484:ASP:HB2	2.22	0.40
1:C:485:PHE:CB	1:D:485:PHE:CE2	3.05	0.40
1:D:50:LEU:N	1:D:55:ARG:HD3	2.36	0.40
1:D:60:LEU:HD21	1:D:175:GLN:HB3	2.03	0.40
1:D:103:ASP:O	1:D:104:LEU:C	2.64	0.40
1:D:142:ILE:HG22	1:D:144:ARG:H	1.86	0.40
1:E:209:GLY:O	1:E:212:ALA:HB3	2.21	0.40
1:E:246:TYR:CE1	1:E:258:VAL:HB	2.44	0.40
1:E:316:ASN:O	1:E:317:MET:HG2	2.21	0.40
1:E:414:LEU:O	1:E:418:LYS:HB2	2.22	0.40
1:E:632:VAL:HB	1:E:633:MET:HE2	2.04	0.40
1:E:654:LEU:HD22	1:F:654:LEU:CD2	2.45	0.40
1:F:32:TRP:HD1	1:F:43:ILE:HD13	1.86	0.40
1:F:260:PRO:HB3	1:F:273:LEU:CD2	2.51	0.40
1:F:486:PHE:O	1:F:486:PHE:CG	2.75	0.40
1:G:105:ARG:NE	1:G:149:GLU:OE2	2.55	0.40
1:G:247:ASP:HB3	1:G:248:ASP:H	1.47	0.40
1:G:402:SER:HB2	1:G:403:LEU:H	1.66	0.40
1:G:409:SER:CB	1:G:412:ILE:CD1	2.92	0.40
1:G:416:ASP:C	1:G:418:LYS:H	2.29	0.40
1:G:434:TRP:O	1:G:435:GLN:C	2.62	0.40
1:H:254:LYS:C	1:H:255:PHE:CD1	2.98	0.40
1:A:120:GLY:C	1:A:123:ARG:H	2.29	0.40
1:A:588:ASN:C	1:A:590:MET:H	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:110:GLN:HB3	1:B:113:ASN:ND2	2.35	0.40
1:B:247:ASP:HB3	1:B:248:ASP:H	1.50	0.40
1:B:260:PRO:O	1:B:261:THR:OG1	2.37	0.40
1:B:316:ASN:N	1:B:321:ARG:O	2.54	0.40
1:B:484:ASP:OD1	1:B:487:ARG:NH1	2.54	0.40
1:C:28:TYR:HD2	1:C:45:GLN:NE2	2.19	0.40
1:C:32:TRP:HD1	1:C:43:ILE:HD13	1.86	0.40
1:C:103:ASP:O	1:C:104:LEU:C	2.64	0.40
1:C:172:GLU:O	1:C:173:LEU:C	2.63	0.40
1:C:273:LEU:HB3	1:C:274:GLU:H	1.73	0.40
1:C:312:LEU:O	1:C:324:THR:HG23	2.21	0.40
1:C:462:ASN:ND2	1:C:540:LEU:HB3	2.37	0.40
1:C:485:PHE:CG	1:D:485:PHE:CE2	3.09	0.40
1:C:632:VAL:O	1:C:633:MET:SD	2.79	0.40
1:D:143:HIS:NE2	1:D:167:LEU:HB2	2.36	0.40
1:D:296:ASN:CG	1:D:297:VAL:N	2.80	0.40
1:D:307:LEU:O	1:D:307:LEU:HD23	2.20	0.40
1:D:434:TRP:NE1	1:D:435:GLN:OE1	2.55	0.40
1:D:471:SER:C	1:D:473:THR:N	2.77	0.40
1:D:476:CYS:CB	1:D:636:MET:SD	3.09	0.40
1:E:321:ARG:NE	1:E:443:ASP:OD1	2.54	0.40
1:E:406:HIS:HA	1:E:407:PRO:HD2	1.84	0.40
1:E:426:LEU:O	1:E:430:TRP:N	2.45	0.40
1:E:449:GLN:O	1:E:453:THR:HG23	2.21	0.40
1:F:276:TRP:CE2	1:F:280:MET:HG3	2.56	0.40
1:F:481:ALA:O	1:F:484:ASP:HB2	2.22	0.40
1:F:490:ILE:O	1:F:490:ILE:CG2	2.68	0.40
1:F:569:ASP:HA	1:F:572:ARG:HB3	2.03	0.40
1:G:58:TRP:CZ3	1:G:62:ILE:HG13	2.57	0.40
1:G:565:GLU:O	1:G:568:ARG:HB3	2.22	0.40
1:G:567:ALA:O	1:G:571:TYR:HD1	2.03	0.40
1:G:569:ASP:HA	1:G:572:ARG:HB3	2.03	0.40
1:H:33:ILE:HD11	1:H:40:GLN:OE1	2.21	0.40
1:H:185:THR:CG2	1:H:187:GLN:CG	2.83	0.40
1:H:471:SER:C	1:H:473:THR:N	2.79	0.40
1:H:629:VAL:O	1:H:629:VAL:HG12	2.21	0.40
1:A:222:PHE:CZ	1:A:225:ASN:CB	3.04	0.40
1:A:346:ILE:HA	1:A:347:PRO:HD3	1.84	0.40
1:A:530:VAL:CA	1:A:533:LEU:HD12	2.32	0.40
1:A:565:GLU:O	1:A:568:ARG:HB3	2.20	0.40
1:B:28:TYR:HD2	1:B:45:GLN:NE2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:104:LEU:N	1:B:151:ILE:O	2.33	0.40
1:B:135:TYR:O	1:B:139:ASN:ND2	2.51	0.40
1:B:272:LYS:HG2	1:B:273:LEU:HA	2.02	0.40
1:B:333:LEU:O	1:B:336:LEU:N	2.54	0.40
1:C:291:ASP:HA	1:C:292:PRO:HD3	1.82	0.40
1:D:33:ILE:HD11	1:D:40:GLN:OE1	2.21	0.40
1:D:70:HIS:NE2	1:D:131:SER:O	2.54	0.40
1:D:254:LYS:C	1:D:255:PHE:CD2	2.99	0.40
1:D:272:LYS:HG2	1:D:273:LEU:HA	2.03	0.40
1:F:114:CYS:O	1:F:114:CYS:SG	2.80	0.40
1:F:186:LEU:HD23	1:F:227:GLN:HG2	2.03	0.40
1:F:410:VAL:O	1:F:413:VAL:HG12	2.22	0.40
1:F:482:LYS:C	1:F:484:ASP:H	2.29	0.40
1:F:560:LEU:HD23	1:F:560:LEU:C	2.46	0.40
1:F:632:VAL:HB	1:F:633:MET:HE2	2.03	0.40
1:G:122:ILE:O	1:G:126:LEU:HB2	2.22	0.40
1:G:269:LEU:HD22	1:G:272:LYS:HB3	2.03	0.40
1:G:473:THR:HB	1:G:533:LEU:HD13	2.04	0.40
1:H:333:LEU:O	1:H:336:LEU:N	2.55	0.40
1:H:569:ASP:HA	1:H:572:ARG:HB3	2.03	0.40

All (6) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:501:MET:SD	1:E:364:ALA:O[1_565]	1.61	0.59
1:E:515:ARG:NH1	1:H:394:LYS:NZ[1_465]	1.76	0.44
1:B:617:VAL:CG2	1:C:519:GLN:OE1[1_465]	1.96	0.24
1:A:522:GLU:OE1	1:C:295:PRO:CB[1_565]	2.01	0.19
1:A:522:GLU:OE1	1:C:295:PRO:CG[1_565]	2.04	0.16
1:B:394:LYS:NZ	1:C:515:ARG:NH1[1_465]	2.19	0.01

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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	A	610/676 (90%)	360 (59%)	145 (24%)	105 (17%)	0	2
1	B	610/676 (90%)	362 (59%)	143 (23%)	105 (17%)	0	2
1	C	610/676 (90%)	359 (59%)	147 (24%)	104 (17%)	0	2
1	D	610/676 (90%)	363 (60%)	143 (23%)	104 (17%)	0	2
1	E	610/676 (90%)	361 (59%)	147 (24%)	102 (17%)	0	2
1	F	610/676 (90%)	362 (59%)	144 (24%)	104 (17%)	0	2
1	G	527/676 (78%)	310 (59%)	126 (24%)	91 (17%)	0	2
1	H	527/676 (78%)	313 (59%)	121 (23%)	93 (18%)	0	1
All	All	4714/5408 (87%)	2790 (59%)	1116 (24%)	808 (17%)	0	2

All (808) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	101	GLY
1	A	106	LYS
1	A	110	GLN
1	A	111	PHE
1	A	166	ASP
1	A	171	LYS
1	A	183	VAL
1	A	187	GLN
1	A	191	PRO
1	A	195	GLU
1	A	202	THR
1	A	214	GLU
1	A	231	TRP
1	A	235	VAL
1	A	300	PHE
1	A	319	SER
1	A	330	ASN
1	A	350	GLU
1	A	359	LEU
1	A	372	ILE
1	A	403	LEU
1	A	419	ARG
1	A	420	PRO
1	A	424	THR

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Mol	Chain	Res	Type
1	A	506	THR
1	A	528	ARG
1	A	582	ARG
1	A	584	PRO
1	A	588	ASN
1	B	101	GLY
1	B	106	LYS
1	B	110	GLN
1	B	111	PHE
1	B	166	ASP
1	B	171	LYS
1	B	183	VAL
1	B	187	GLN
1	B	191	PRO
1	B	195	GLU
1	B	201	VAL
1	B	202	THR
1	B	231	TRP
1	B	235	VAL
1	B	300	PHE
1	B	319	SER
1	B	330	ASN
1	B	350	GLU
1	B	359	LEU
1	B	363	SER
1	B	372	ILE
1	B	403	LEU
1	B	419	ARG
1	B	420	PRO
1	B	424	THR
1	B	506	THR
1	B	528	ARG
1	B	582	ARG
1	B	584	PRO
1	B	661	ALA
1	C	101	GLY
1	C	106	LYS
1	C	110	GLN
1	C	111	PHE
1	C	166	ASP
1	C	171	LYS
1	C	183	VAL

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Mol	Chain	Res	Type
1	C	187	GLN
1	C	191	PRO
1	C	195	GLU
1	C	201	VAL
1	C	202	THR
1	C	231	TRP
1	C	235	VAL
1	C	273	LEU
1	C	300	PHE
1	C	319	SER
1	C	330	ASN
1	C	350	GLU
1	C	359	LEU
1	C	363	SER
1	C	372	ILE
1	C	403	LEU
1	C	419	ARG
1	C	420	PRO
1	C	424	THR
1	C	506	THR
1	C	528	ARG
1	C	582	ARG
1	C	584	PRO
1	C	661	ALA
1	D	101	GLY
1	D	106	LYS
1	D	110	GLN
1	D	111	PHE
1	D	166	ASP
1	D	171	LYS
1	D	183	VAL
1	D	187	GLN
1	D	191	PRO
1	D	195	GLU
1	D	201	VAL
1	D	202	THR
1	D	231	TRP
1	D	235	VAL
1	D	300	PHE
1	D	319	SER
1	D	330	ASN
1	D	350	GLU

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Mol	Chain	Res	Type
1	D	359	LEU
1	D	363	SER
1	D	372	ILE
1	D	386	LEU
1	D	403	LEU
1	D	419	ARG
1	D	420	PRO
1	D	424	THR
1	D	506	THR
1	D	582	ARG
1	D	584	PRO
1	D	661	ALA
1	E	101	GLY
1	E	106	LYS
1	E	110	GLN
1	E	111	PHE
1	E	166	ASP
1	E	171	LYS
1	E	183	VAL
1	E	187	GLN
1	E	191	PRO
1	E	195	GLU
1	E	202	THR
1	E	231	TRP
1	E	235	VAL
1	E	273	LEU
1	E	300	PHE
1	E	319	SER
1	E	330	ASN
1	E	350	GLU
1	E	359	LEU
1	E	372	ILE
1	E	403	LEU
1	E	419	ARG
1	E	420	PRO
1	E	424	THR
1	E	506	THR
1	E	582	ARG
1	E	584	PRO
1	E	661	ALA
1	F	101	GLY
1	F	106	LYS

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Mol	Chain	Res	Type
1	F	110	GLN
1	F	111	PHE
1	F	166	ASP
1	F	171	LYS
1	F	183	VAL
1	F	187	GLN
1	F	191	PRO
1	F	195	GLU
1	F	201	VAL
1	F	202	THR
1	F	214	GLU
1	F	231	TRP
1	F	235	VAL
1	F	273	LEU
1	F	300	PHE
1	F	319	SER
1	F	330	ASN
1	F	350	GLU
1	F	359	LEU
1	F	372	ILE
1	F	403	LEU
1	F	419	ARG
1	F	420	PRO
1	F	424	THR
1	F	506	THR
1	F	582	ARG
1	F	584	PRO
1	G	101	GLY
1	G	106	LYS
1	G	110	GLN
1	G	111	PHE
1	G	166	ASP
1	G	171	LYS
1	G	183	VAL
1	G	187	GLN
1	G	191	PRO
1	G	195	GLU
1	G	201	VAL
1	G	202	THR
1	G	231	TRP
1	G	235	VAL
1	G	273	LEU

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Mol	Chain	Res	Type
1	G	300	PHE
1	G	319	SER
1	G	330	ASN
1	G	350	GLU
1	G	359	LEU
1	G	363	SER
1	G	372	ILE
1	G	403	LEU
1	G	419	ARG
1	G	420	PRO
1	G	424	THR
1	G	582	ARG
1	G	584	PRO
1	H	101	GLY
1	H	106	LYS
1	H	110	GLN
1	H	111	PHE
1	H	166	ASP
1	H	171	LYS
1	H	183	VAL
1	H	187	GLN
1	H	191	PRO
1	H	195	GLU
1	H	201	VAL
1	H	202	THR
1	H	231	TRP
1	H	235	VAL
1	H	273	LEU
1	H	300	PHE
1	H	319	SER
1	H	330	ASN
1	H	350	GLU
1	H	359	LEU
1	H	372	ILE
1	H	403	LEU
1	H	419	ARG
1	H	420	PRO
1	H	424	THR
1	H	582	ARG
1	H	584	PRO
1	H	588	ASN
1	A	36	ASP

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Mol	Chain	Res	Type
1	A	74	VAL
1	A	103	ASP
1	A	134	ARG
1	A	179	CYS
1	A	184	GLY
1	A	189	LEU
1	A	201	VAL
1	A	222	PHE
1	A	250	THR
1	A	251	GLY
1	A	273	LEU
1	A	298	GLY
1	A	308	SER
1	A	317	MET
1	A	363	SER
1	A	371	VAL
1	A	374	CYS
1	A	385	ASP
1	A	386	LEU
1	A	503	PHE
1	A	661	ALA
1	B	36	ASP
1	B	74	VAL
1	B	103	ASP
1	B	134	ARG
1	B	160	LEU
1	B	179	CYS
1	B	184	GLY
1	B	189	LEU
1	B	214	GLU
1	B	222	PHE
1	B	250	THR
1	B	251	GLY
1	B	273	LEU
1	B	298	GLY
1	B	317	MET
1	B	320	GLY
1	B	321	ARG
1	B	371	VAL
1	B	374	CYS
1	B	385	ASP
1	B	386	LEU

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Mol	Chain	Res	Type
1	B	476	CYS
1	B	588	ASN
1	C	36	ASP
1	C	74	VAL
1	C	85	LYS
1	C	134	ARG
1	C	160	LEU
1	C	179	CYS
1	C	184	GLY
1	C	214	GLU
1	C	222	PHE
1	C	230	GLN
1	C	250	THR
1	C	251	GLY
1	C	298	GLY
1	C	308	SER
1	C	317	MET
1	C	371	VAL
1	C	374	CYS
1	C	385	ASP
1	C	386	LEU
1	C	427	ARG
1	C	588	ASN
1	C	643	VAL
1	D	36	ASP
1	D	74	VAL
1	D	103	ASP
1	D	134	ARG
1	D	160	LEU
1	D	179	CYS
1	D	184	GLY
1	D	189	LEU
1	D	213	PHE
1	D	214	GLU
1	D	222	PHE
1	D	250	THR
1	D	251	GLY
1	D	273	LEU
1	D	298	GLY
1	D	317	MET
1	D	320	GLY
1	D	321	ARG

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Mol	Chain	Res	Type
1	D	371	VAL
1	D	374	CYS
1	D	385	ASP
1	D	528	ARG
1	D	588	ASN
1	D	643	VAL
1	E	36	ASP
1	E	74	VAL
1	E	103	ASP
1	E	134	ARG
1	E	160	LEU
1	E	179	CYS
1	E	184	GLY
1	E	189	LEU
1	E	201	VAL
1	E	214	GLU
1	E	222	PHE
1	E	250	THR
1	E	251	GLY
1	E	298	GLY
1	E	308	SER
1	E	317	MET
1	E	320	GLY
1	E	363	SER
1	E	371	VAL
1	E	374	CYS
1	E	385	ASP
1	E	386	LEU
1	E	503	PHE
1	E	528	ARG
1	E	588	ASN
1	E	643	VAL
1	F	36	ASP
1	F	74	VAL
1	F	103	ASP
1	F	134	ARG
1	F	160	LEU
1	F	179	CYS
1	F	184	GLY
1	F	189	LEU
1	F	213	PHE
1	F	222	PHE

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Mol	Chain	Res	Type
1	F	250	THR
1	F	251	GLY
1	F	298	GLY
1	F	308	SER
1	F	317	MET
1	F	320	GLY
1	F	363	SER
1	F	371	VAL
1	F	374	CYS
1	F	385	ASP
1	F	386	LEU
1	F	503	PHE
1	F	588	ASN
1	F	643	VAL
1	F	661	ALA
1	G	36	ASP
1	G	74	VAL
1	G	103	ASP
1	G	134	ARG
1	G	160	LEU
1	G	179	CYS
1	G	184	GLY
1	G	189	LEU
1	G	214	GLU
1	G	222	PHE
1	G	230	GLN
1	G	250	THR
1	G	251	GLY
1	G	298	GLY
1	G	308	SER
1	G	317	MET
1	G	371	VAL
1	G	374	CYS
1	G	385	ASP
1	G	386	LEU
1	G	588	ASN
1	H	36	ASP
1	H	74	VAL
1	H	103	ASP
1	H	134	ARG
1	H	160	LEU
1	H	179	CYS

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Mol	Chain	Res	Type
1	H	184	GLY
1	H	189	LEU
1	H	222	PHE
1	H	230	GLN
1	H	250	THR
1	H	251	GLY
1	H	298	GLY
1	H	308	SER
1	H	317	MET
1	H	363	SER
1	H	371	VAL
1	H	374	CYS
1	H	385	ASP
1	H	386	LEU
1	A	48	GLN
1	A	49	GLU
1	A	85	LYS
1	A	105	ARG
1	A	115	CYS
1	A	160	LEU
1	A	194	LEU
1	A	213	PHE
1	A	218	GLY
1	A	230	GLN
1	A	234	LYS
1	A	320	GLY
1	A	321	ARG
1	A	333	LEU
1	A	348	GLU
1	A	364	ALA
1	A	409	SER
1	A	507	SER
1	A	508	GLU
1	A	530	VAL
1	A	550	ASN
1	A	583	THR
1	A	587	SER
1	A	597	ALA
1	A	643	VAL
1	B	48	GLN
1	B	49	GLU
1	B	85	LYS

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Mol	Chain	Res	Type
1	B	105	ARG
1	B	115	CYS
1	B	194	LEU
1	B	213	PHE
1	B	218	GLY
1	B	230	GLN
1	B	234	LYS
1	B	308	SER
1	B	333	LEU
1	B	348	GLU
1	B	364	ALA
1	B	409	SER
1	B	427	ARG
1	B	450	GLY
1	B	489	SER
1	B	507	SER
1	B	508	GLU
1	B	530	VAL
1	B	550	ASN
1	B	583	THR
1	B	587	SER
1	B	597	ALA
1	B	643	VAL
1	C	48	GLN
1	C	49	GLU
1	C	103	ASP
1	C	105	ARG
1	C	115	CYS
1	C	189	LEU
1	C	194	LEU
1	C	213	PHE
1	C	234	LYS
1	C	320	GLY
1	C	321	ARG
1	C	333	LEU
1	C	348	GLU
1	C	364	ALA
1	C	409	SER
1	C	450	GLY
1	C	483	LEU
1	C	489	SER
1	C	503	PHE

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Mol	Chain	Res	Type
1	C	508	GLU
1	C	530	VAL
1	C	550	ASN
1	C	583	THR
1	C	587	SER
1	C	597	ALA
1	D	48	GLN
1	D	49	GLU
1	D	85	LYS
1	D	105	ARG
1	D	115	CYS
1	D	194	LEU
1	D	230	GLN
1	D	234	LYS
1	D	308	SER
1	D	333	LEU
1	D	348	GLU
1	D	364	ALA
1	D	409	SER
1	D	450	GLY
1	D	483	LEU
1	D	503	PHE
1	D	508	GLU
1	D	530	VAL
1	D	550	ASN
1	D	583	THR
1	D	587	SER
1	D	597	ALA
1	E	48	GLN
1	E	49	GLU
1	E	85	LYS
1	E	115	CYS
1	E	194	LEU
1	E	213	PHE
1	E	230	GLN
1	E	234	LYS
1	E	321	ARG
1	E	333	LEU
1	E	348	GLU
1	E	364	ALA
1	E	409	SER
1	E	427	ARG

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Mol	Chain	Res	Type
1	E	483	LEU
1	E	507	SER
1	E	508	GLU
1	E	530	VAL
1	E	550	ASN
1	E	583	THR
1	E	587	SER
1	F	49	GLU
1	F	85	LYS
1	F	105	ARG
1	F	115	CYS
1	F	194	LEU
1	F	218	GLY
1	F	230	GLN
1	F	234	LYS
1	F	321	ARG
1	F	333	LEU
1	F	348	GLU
1	F	364	ALA
1	F	409	SER
1	F	489	SER
1	F	507	SER
1	F	508	GLU
1	F	528	ARG
1	F	530	VAL
1	F	550	ASN
1	F	583	THR
1	F	587	SER
1	G	48	GLN
1	G	49	GLU
1	G	85	LYS
1	G	194	LEU
1	G	213	PHE
1	G	218	GLY
1	G	234	LYS
1	G	320	GLY
1	G	321	ARG
1	G	333	LEU
1	G	348	GLU
1	G	409	SER
1	G	530	VAL
1	G	550	ASN

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Mol	Chain	Res	Type
1	G	583	THR
1	G	587	SER
1	G	597	ALA
1	H	48	GLN
1	H	49	GLU
1	H	85	LYS
1	H	105	ARG
1	H	115	CYS
1	H	194	LEU
1	H	214	GLU
1	H	234	LYS
1	H	320	GLY
1	H	321	ARG
1	H	333	LEU
1	H	348	GLU
1	H	364	ALA
1	H	409	SER
1	H	427	ARG
1	H	450	GLY
1	H	530	VAL
1	H	550	ASN
1	H	583	THR
1	H	587	SER
1	H	597	ALA
1	A	121	PRO
1	A	144	ARG
1	A	199	TYR
1	A	284	HIS
1	A	418	LYS
1	A	427	ARG
1	A	450	GLY
1	A	483	LEU
1	A	489	SER
1	A	549	ARG
1	A	629	VAL
1	B	121	PRO
1	B	144	ARG
1	B	199	TYR
1	B	284	HIS
1	B	309	LEU
1	B	418	LYS
1	B	503	PHE

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Mol	Chain	Res	Type
1	B	549	ARG
1	B	629	VAL
1	C	78	GLU
1	C	121	PRO
1	C	144	ARG
1	C	218	GLY
1	C	284	HIS
1	C	418	LYS
1	C	507	SER
1	C	549	ARG
1	C	629	VAL
1	D	121	PRO
1	D	144	ARG
1	D	218	GLY
1	D	418	LYS
1	D	427	ARG
1	D	489	SER
1	D	507	SER
1	D	549	ARG
1	D	629	VAL
1	D	644	VAL
1	E	105	ARG
1	E	121	PRO
1	E	144	ARG
1	E	218	GLY
1	E	418	LYS
1	E	450	GLY
1	E	489	SER
1	E	549	ARG
1	E	597	ALA
1	E	629	VAL
1	F	48	GLN
1	F	144	ARG
1	F	418	LYS
1	F	427	ARG
1	F	450	GLY
1	F	483	LEU
1	F	549	ARG
1	F	597	ALA
1	F	629	VAL
1	G	105	ARG
1	G	115	CYS

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Mol	Chain	Res	Type
1	G	121	PRO
1	G	144	ARG
1	G	364	ALA
1	G	418	LYS
1	G	427	ARG
1	G	549	ARG
1	G	629	VAL
1	H	121	PRO
1	H	144	ARG
1	H	213	PHE
1	H	218	GLY
1	H	284	HIS
1	H	309	LEU
1	H	418	LYS
1	H	549	ARG
1	H	629	VAL
1	A	72	ASN
1	A	78	GLU
1	A	220	ARG
1	A	227	GLN
1	A	261	THR
1	A	309	LEU
1	A	445	ALA
1	A	644	VAL
1	B	72	ASN
1	B	78	GLU
1	B	220	ARG
1	B	261	THR
1	B	388	PHE
1	B	483	LEU
1	B	644	VAL
1	C	72	ASN
1	C	220	ARG
1	C	261	THR
1	C	445	ALA
1	C	644	VAL
1	D	78	GLU
1	D	220	ARG
1	D	261	THR
1	D	284	HIS
1	D	309	LEU
1	D	388	PHE

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Mol	Chain	Res	Type
1	D	445	ALA
1	E	35	GLN
1	E	78	GLU
1	E	220	ARG
1	E	261	THR
1	E	284	HIS
1	E	644	VAL
1	F	78	GLU
1	F	121	PRO
1	F	199	TYR
1	F	220	ARG
1	F	261	THR
1	F	284	HIS
1	F	388	PHE
1	F	431	GLY
1	F	445	ALA
1	F	644	VAL
1	G	72	ASN
1	G	78	GLU
1	G	193	LEU
1	G	220	ARG
1	G	227	GLN
1	G	261	THR
1	G	284	HIS
1	G	309	LEU
1	G	450	GLY
1	H	78	GLU
1	H	220	ARG
1	H	261	THR
1	H	431	GLY
1	H	445	ALA
1	A	35	GLN
1	A	388	PHE
1	A	431	GLY
1	A	626	SER
1	A	665	VAL
1	B	227	GLN
1	B	431	GLY
1	B	577	ARG
1	B	626	SER
1	B	665	VAL
1	C	193	LEU

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Mol	Chain	Res	Type
1	C	199	TYR
1	C	227	GLN
1	C	388	PHE
1	C	431	GLY
1	C	577	ARG
1	C	626	SER
1	C	665	VAL
1	D	199	TYR
1	D	227	GLN
1	D	626	SER
1	D	665	VAL
1	E	72	ASN
1	E	431	GLY
1	E	445	ALA
1	E	577	ARG
1	E	626	SER
1	E	665	VAL
1	F	72	ASN
1	F	227	GLN
1	F	626	SER
1	F	665	VAL
1	G	388	PHE
1	G	577	ARG
1	H	72	ASN
1	H	199	TYR
1	A	407	PRO
1	A	577	ARG
1	D	407	PRO
1	D	431	GLY
1	F	577	ARG
1	G	407	PRO
1	G	431	GLY
1	G	626	SER
1	H	227	GLN
1	H	407	PRO
1	H	577	ARG
1	H	626	SER
1	B	165	ILE
1	B	407	PRO
1	C	407	PRO
1	D	165	ILE
1	D	577	ARG

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Mol	Chain	Res	Type
1	E	227	GLN
1	E	407	PRO
1	F	165	ILE
1	F	407	PRO
1	A	165	ILE
1	B	387	ILE
1	C	165	ILE
1	E	165	ILE
1	F	387	ILE
1	G	165	ILE
1	H	165	ILE
1	B	260	PRO
1	D	260	PRO
1	D	295	PRO
1	D	387	ILE
1	E	295	PRO
1	E	387	ILE
1	F	260	PRO
1	F	295	PRO
1	G	260	PRO
1	H	260	PRO
1	H	295	PRO
1	A	260	PRO
1	A	295	PRO
1	B	295	PRO
1	C	260	PRO
1	C	295	PRO
1	H	387	ILE

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	A	563/609 (92%)	498 (88%)	65 (12%)	4	23
1	B	563/609 (92%)	497 (88%)	66 (12%)	4	23
1	C	563/609 (92%)	496 (88%)	67 (12%)	4	22

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	563/609 (92%)	498 (88%)	65 (12%)	4	23
1	E	563/609 (92%)	500 (89%)	63 (11%)	5	24
1	F	563/609 (92%)	498 (88%)	65 (12%)	4	23
1	G	488/609 (80%)	437 (90%)	51 (10%)	5	26
1	H	488/609 (80%)	436 (89%)	52 (11%)	5	26
All	All	4354/4872 (89%)	3860 (89%)	494 (11%)	4	24

All (494) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16	GLU
1	A	51	SER
1	A	54	ASN
1	A	93	LEU
1	A	108	LEU
1	A	114	CYS
1	A	117	LEU
1	A	122	ILE
1	A	134	ARG
1	A	150	ASN
1	A	203	VAL
1	A	210	THR
1	A	211	LEU
1	A	216	ILE
1	A	244	VAL
1	A	248	ASP
1	A	258	VAL
1	A	263	ASN
1	A	265	LEU
1	A	266	SER
1	A	268	ILE
1	A	278	GLN
1	A	282	MET
1	A	301	GLN
1	A	313	SER
1	A	314	VAL
1	A	322	VAL
1	A	330	ASN
1	A	348	GLU
1	A	354	LEU

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Mol	Chain	Res	Type
1	A	357	SER
1	A	387	ILE
1	A	390	PHE
1	A	408	GLU
1	A	416	ASP
1	A	422	THR
1	A	424	THR
1	A	429	VAL
1	A	434	TRP
1	A	436	THR
1	A	444	CYS
1	A	448	LEU
1	A	453	THR
1	A	455	MET
1	A	459	LEU
1	A	479	LEU
1	A	490	ILE
1	A	494	LEU
1	A	497	TYR
1	A	505	ILE
1	A	517	MET
1	A	523	LEU
1	A	535	ASP
1	A	564	GLU
1	A	569	ASP
1	A	590	MET
1	A	606	ILE
1	A	612	LEU
1	A	616	VAL
1	A	624	GLU
1	A	642	ILE
1	A	648	GLU
1	A	654	LEU
1	A	659	LYS
1	A	662	CYS
1	B	16	GLU
1	B	51	SER
1	B	54	ASN
1	B	93	LEU
1	B	108	LEU
1	B	114	CYS
1	B	117	LEU

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Mol	Chain	Res	Type
1	B	122	ILE
1	B	134	ARG
1	B	150	ASN
1	B	203	VAL
1	B	210	THR
1	B	216	ILE
1	B	244	VAL
1	B	248	ASP
1	B	258	VAL
1	B	263	ASN
1	B	265	LEU
1	B	266	SER
1	B	268	ILE
1	B	278	GLN
1	B	282	MET
1	B	301	GLN
1	B	313	SER
1	B	314	VAL
1	B	322	VAL
1	B	330	ASN
1	B	348	GLU
1	B	354	LEU
1	B	357	SER
1	B	387	ILE
1	B	390	PHE
1	B	402	SER
1	B	408	GLU
1	B	416	ASP
1	B	422	THR
1	B	424	THR
1	B	429	VAL
1	B	434	TRP
1	B	436	THR
1	B	444	CYS
1	B	448	LEU
1	B	453	THR
1	B	455	MET
1	B	459	LEU
1	B	479	LEU
1	B	490	ILE
1	B	494	LEU
1	B	497	TYR

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Mol	Chain	Res	Type
1	B	505	ILE
1	B	517	MET
1	B	523	LEU
1	B	535	ASP
1	B	564	GLU
1	B	569	ASP
1	B	590	MET
1	B	606	ILE
1	B	612	LEU
1	B	616	VAL
1	B	624	GLU
1	B	642	ILE
1	B	648	GLU
1	B	654	LEU
1	B	656	ASN
1	B	659	LYS
1	B	662	CYS
1	C	16	GLU
1	C	51	SER
1	C	54	ASN
1	C	93	LEU
1	C	108	LEU
1	C	114	CYS
1	C	117	LEU
1	C	122	ILE
1	C	134	ARG
1	C	150	ASN
1	C	203	VAL
1	C	210	THR
1	C	211	LEU
1	C	216	ILE
1	C	244	VAL
1	C	248	ASP
1	C	258	VAL
1	C	263	ASN
1	C	265	LEU
1	C	266	SER
1	C	268	ILE
1	C	278	GLN
1	C	282	MET
1	C	301	GLN
1	C	313	SER

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Mol	Chain	Res	Type
1	C	314	VAL
1	C	322	VAL
1	C	330	ASN
1	C	348	GLU
1	C	354	LEU
1	C	357	SER
1	C	387	ILE
1	C	390	PHE
1	C	408	GLU
1	C	416	ASP
1	C	422	THR
1	C	424	THR
1	C	429	VAL
1	C	434	TRP
1	C	436	THR
1	C	444	CYS
1	C	448	LEU
1	C	453	THR
1	C	455	MET
1	C	459	LEU
1	C	479	LEU
1	C	490	ILE
1	C	494	LEU
1	C	497	TYR
1	C	505	ILE
1	C	517	MET
1	C	523	LEU
1	C	535	ASP
1	C	564	GLU
1	C	569	ASP
1	C	590	MET
1	C	606	ILE
1	C	610	ASP
1	C	612	LEU
1	C	616	VAL
1	C	624	GLU
1	C	642	ILE
1	C	648	GLU
1	C	654	LEU
1	C	656	ASN
1	C	659	LYS
1	C	662	CYS

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Mol	Chain	Res	Type
1	D	16	GLU
1	D	51	SER
1	D	54	ASN
1	D	93	LEU
1	D	108	LEU
1	D	114	CYS
1	D	117	LEU
1	D	122	ILE
1	D	134	ARG
1	D	150	ASN
1	D	191	PRO
1	D	203	VAL
1	D	210	THR
1	D	216	ILE
1	D	244	VAL
1	D	248	ASP
1	D	258	VAL
1	D	263	ASN
1	D	265	LEU
1	D	266	SER
1	D	268	ILE
1	D	278	GLN
1	D	282	MET
1	D	301	GLN
1	D	313	SER
1	D	314	VAL
1	D	330	ASN
1	D	348	GLU
1	D	354	LEU
1	D	357	SER
1	D	387	ILE
1	D	390	PHE
1	D	408	GLU
1	D	416	ASP
1	D	422	THR
1	D	424	THR
1	D	429	VAL
1	D	434	TRP
1	D	436	THR
1	D	444	CYS
1	D	448	LEU
1	D	453	THR

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Mol	Chain	Res	Type
1	D	455	MET
1	D	459	LEU
1	D	479	LEU
1	D	490	ILE
1	D	494	LEU
1	D	497	TYR
1	D	505	ILE
1	D	517	MET
1	D	523	LEU
1	D	535	ASP
1	D	564	GLU
1	D	569	ASP
1	D	590	MET
1	D	606	ILE
1	D	612	LEU
1	D	616	VAL
1	D	624	GLU
1	D	642	ILE
1	D	648	GLU
1	D	654	LEU
1	D	656	ASN
1	D	659	LYS
1	D	662	CYS
1	E	16	GLU
1	E	51	SER
1	E	54	ASN
1	E	93	LEU
1	E	108	LEU
1	E	114	CYS
1	E	117	LEU
1	E	122	ILE
1	E	134	ARG
1	E	150	ASN
1	E	203	VAL
1	E	210	THR
1	E	216	ILE
1	E	244	VAL
1	E	248	ASP
1	E	263	ASN
1	E	265	LEU
1	E	266	SER
1	E	268	ILE

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Mol	Chain	Res	Type
1	E	278	GLN
1	E	282	MET
1	E	301	GLN
1	E	313	SER
1	E	314	VAL
1	E	322	VAL
1	E	330	ASN
1	E	348	GLU
1	E	354	LEU
1	E	357	SER
1	E	387	ILE
1	E	390	PHE
1	E	408	GLU
1	E	416	ASP
1	E	422	THR
1	E	424	THR
1	E	429	VAL
1	E	434	TRP
1	E	436	THR
1	E	444	CYS
1	E	448	LEU
1	E	453	THR
1	E	455	MET
1	E	459	LEU
1	E	479	LEU
1	E	490	ILE
1	E	494	LEU
1	E	497	TYR
1	E	505	ILE
1	E	517	MET
1	E	535	ASP
1	E	564	GLU
1	E	569	ASP
1	E	590	MET
1	E	606	ILE
1	E	612	LEU
1	E	616	VAL
1	E	624	GLU
1	E	642	ILE
1	E	648	GLU
1	E	654	LEU
1	E	656	ASN

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Mol	Chain	Res	Type
1	E	659	LYS
1	E	662	CYS
1	F	16	GLU
1	F	51	SER
1	F	54	ASN
1	F	93	LEU
1	F	108	LEU
1	F	114	CYS
1	F	117	LEU
1	F	122	ILE
1	F	134	ARG
1	F	150	ASN
1	F	203	VAL
1	F	210	THR
1	F	216	ILE
1	F	244	VAL
1	F	248	ASP
1	F	258	VAL
1	F	263	ASN
1	F	265	LEU
1	F	266	SER
1	F	268	ILE
1	F	278	GLN
1	F	282	MET
1	F	301	GLN
1	F	313	SER
1	F	314	VAL
1	F	322	VAL
1	F	330	ASN
1	F	348	GLU
1	F	354	LEU
1	F	357	SER
1	F	387	ILE
1	F	390	PHE
1	F	408	GLU
1	F	416	ASP
1	F	422	THR
1	F	424	THR
1	F	429	VAL
1	F	434	TRP
1	F	436	THR
1	F	444	CYS

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Mol	Chain	Res	Type
1	F	448	LEU
1	F	453	THR
1	F	455	MET
1	F	459	LEU
1	F	479	LEU
1	F	490	ILE
1	F	494	LEU
1	F	497	TYR
1	F	505	ILE
1	F	517	MET
1	F	523	LEU
1	F	535	ASP
1	F	564	GLU
1	F	569	ASP
1	F	590	MET
1	F	606	ILE
1	F	612	LEU
1	F	616	VAL
1	F	624	GLU
1	F	642	ILE
1	F	648	GLU
1	F	654	LEU
1	F	656	ASN
1	F	659	LYS
1	F	662	CYS
1	G	16	GLU
1	G	51	SER
1	G	54	ASN
1	G	93	LEU
1	G	108	LEU
1	G	114	CYS
1	G	122	ILE
1	G	134	ARG
1	G	150	ASN
1	G	203	VAL
1	G	210	THR
1	G	216	ILE
1	G	244	VAL
1	G	248	ASP
1	G	258	VAL
1	G	263	ASN
1	G	265	LEU

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Mol	Chain	Res	Type
1	G	266	SER
1	G	268	ILE
1	G	278	GLN
1	G	282	MET
1	G	301	GLN
1	G	313	SER
1	G	314	VAL
1	G	322	VAL
1	G	330	ASN
1	G	348	GLU
1	G	354	LEU
1	G	357	SER
1	G	387	ILE
1	G	390	PHE
1	G	408	GLU
1	G	416	ASP
1	G	422	THR
1	G	424	THR
1	G	429	VAL
1	G	434	TRP
1	G	436	THR
1	G	444	CYS
1	G	448	LEU
1	G	453	THR
1	G	455	MET
1	G	459	LEU
1	G	535	ASP
1	G	564	GLU
1	G	569	ASP
1	G	590	MET
1	G	606	ILE
1	G	612	LEU
1	G	616	VAL
1	G	624	GLU
1	H	16	GLU
1	H	51	SER
1	H	54	ASN
1	H	93	LEU
1	H	108	LEU
1	H	114	CYS
1	H	117	LEU
1	H	122	ILE

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Mol	Chain	Res	Type
1	H	134	ARG
1	H	150	ASN
1	H	203	VAL
1	H	210	THR
1	H	216	ILE
1	H	244	VAL
1	H	248	ASP
1	H	258	VAL
1	H	263	ASN
1	H	265	LEU
1	H	266	SER
1	H	268	ILE
1	H	278	GLN
1	H	282	MET
1	H	301	GLN
1	H	313	SER
1	H	314	VAL
1	H	322	VAL
1	H	330	ASN
1	H	348	GLU
1	H	354	LEU
1	H	357	SER
1	H	387	ILE
1	H	390	PHE
1	H	402	SER
1	H	408	GLU
1	H	416	ASP
1	H	422	THR
1	H	424	THR
1	H	429	VAL
1	H	434	TRP
1	H	436	THR
1	H	444	CYS
1	H	448	LEU
1	H	453	THR
1	H	455	MET
1	H	535	ASP
1	H	564	GLU
1	H	569	ASP
1	H	590	MET
1	H	606	ILE
1	H	612	LEU

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Mol	Chain	Res	Type
1	H	616	VAL
1	H	624	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (153) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	35	GLN
1	A	70	HIS
1	A	109	ASN
1	A	143	HIS
1	A	196	GLN
1	A	230	GLN
1	A	263	ASN
1	A	264	HIS
1	A	294	ASN
1	A	301	GLN
1	A	332	ASN
1	A	355	GLN
1	A	362	ASN
1	A	365	GLN
1	A	449	GLN
1	A	478	GLN
1	A	500	GLN
1	A	611	GLN
1	A	647	GLN
1	A	651	GLN
1	B	35	GLN
1	B	70	HIS
1	B	109	ASN
1	B	143	HIS
1	B	196	GLN
1	B	230	GLN
1	B	263	ASN
1	B	264	HIS
1	B	294	ASN
1	B	301	GLN
1	B	362	ASN
1	B	365	GLN
1	B	432	GLN
1	B	449	GLN
1	B	451	GLN
1	B	470	ASN

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Mol	Chain	Res	Type
1	B	500	GLN
1	B	548	GLN
1	B	550	ASN
1	B	647	GLN
1	B	651	GLN
1	C	35	GLN
1	C	109	ASN
1	C	143	HIS
1	C	196	GLN
1	C	230	GLN
1	C	263	ASN
1	C	264	HIS
1	C	294	ASN
1	C	301	GLN
1	C	332	ASN
1	C	342	GLN
1	C	362	ASN
1	C	365	GLN
1	C	432	GLN
1	C	449	GLN
1	C	462	ASN
1	C	500	GLN
1	C	541	GLN
1	C	550	ASN
1	C	647	GLN
1	C	651	GLN
1	D	35	GLN
1	D	70	HIS
1	D	109	ASN
1	D	143	HIS
1	D	196	GLN
1	D	230	GLN
1	D	263	ASN
1	D	264	HIS
1	D	294	ASN
1	D	301	GLN
1	D	362	ASN
1	D	365	GLN
1	D	449	GLN
1	D	478	GLN
1	D	500	GLN
1	D	548	GLN

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Mol	Chain	Res	Type
1	D	550	ASN
1	D	647	GLN
1	D	651	GLN
1	E	35	GLN
1	E	70	HIS
1	E	109	ASN
1	E	143	HIS
1	E	196	GLN
1	E	230	GLN
1	E	263	ASN
1	E	264	HIS
1	E	294	ASN
1	E	301	GLN
1	E	342	GLN
1	E	355	GLN
1	E	362	ASN
1	E	365	GLN
1	E	449	GLN
1	E	462	ASN
1	E	478	GLN
1	E	500	GLN
1	E	541	GLN
1	E	611	GLN
1	E	647	GLN
1	E	651	GLN
1	F	35	GLN
1	F	109	ASN
1	F	143	HIS
1	F	175	GLN
1	F	196	GLN
1	F	230	GLN
1	F	263	ASN
1	F	264	HIS
1	F	294	ASN
1	F	301	GLN
1	F	332	ASN
1	F	362	ASN
1	F	365	GLN
1	F	449	GLN
1	F	478	GLN
1	F	500	GLN
1	F	548	GLN

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Mol	Chain	Res	Type
1	F	550	ASN
1	F	651	GLN
1	G	35	GLN
1	G	70	HIS
1	G	109	ASN
1	G	143	HIS
1	G	196	GLN
1	G	230	GLN
1	G	263	ASN
1	G	294	ASN
1	G	301	GLN
1	G	362	ASN
1	G	365	GLN
1	G	449	GLN
1	G	548	GLN
1	G	550	ASN
1	G	611	GLN
1	H	35	GLN
1	H	70	HIS
1	H	109	ASN
1	H	143	HIS
1	H	187	GLN
1	H	196	GLN
1	H	230	GLN
1	H	263	ASN
1	H	264	HIS
1	H	294	ASN
1	H	301	GLN
1	H	362	ASN
1	H	365	GLN
1	H	449	GLN
1	H	470	ASN
1	H	548	GLN

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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

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, 95th 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(Å²)	Q<0.9	
1	A	622/676 (92%)	-0.43	4 (0%)	85	69	76, 189, 275, 337	0
1	B	622/676 (92%)	-0.40	1 (0%)	92	84	71, 191, 274, 336	0
1	C	622/676 (92%)	-0.16	7 (1%)	77	57	58, 188, 275, 327	0
1	D	622/676 (92%)	-0.53	2 (0%)	90	79	85, 194, 278, 327	0
1	E	622/676 (92%)	-0.28	4 (0%)	85	69	74, 190, 274, 330	0
1	F	622/676 (92%)	-0.52	1 (0%)	92	84	93, 200, 283, 331	0
1	G	541/676 (80%)	-0.51	1 (0%)	92	84	96, 214, 302, 387	0
1	H	541/676 (80%)	-0.46	1 (0%)	92	84	79, 194, 293, 423	0
All	All	4814/5408 (89%)	-0.41	21 (0%)	89	76	58, 195, 283, 423	0

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	544	SER	4.0
1	C	508	GLU	4.0
1	C	636	MET	3.7
1	C	648	GLU	3.5
1	C	342	GLN	3.0
1	C	101	GLY	2.9
1	D	625	LEU	2.7
1	C	108	LEU	2.5
1	E	571	TYR	2.4
1	D	161	ILE	2.3
1	E	639	ASP	2.3
1	E	199	TYR	2.3
1	F	233	GLY	2.2
1	C	625	LEU	2.2
1	A	640	GLU	2.2
1	A	521	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	301	GLN	2.1
1	B	435	GLN	2.1
1	A	583	THR	2.0
1	G	563	LEU	2.0
1	E	220	ARG	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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.