



Full wwPDB EM Validation Report ⓘ

Aug 30, 2026 – 12:31 AM JST

PDB ID : 9VM7 / pdb_00009vm7
EMDB ID : EMD-65179
Title : Structure of DOCK6 tetramer complexed with Rac1
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Yonemochi, M.;
Hanada, K.; Shirouzu, M.
Deposited on : 2025-06-27
Resolution : 6.85 Å(reported)

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

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

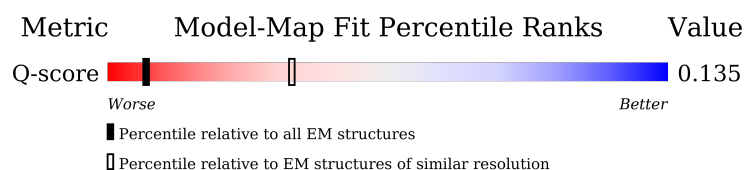
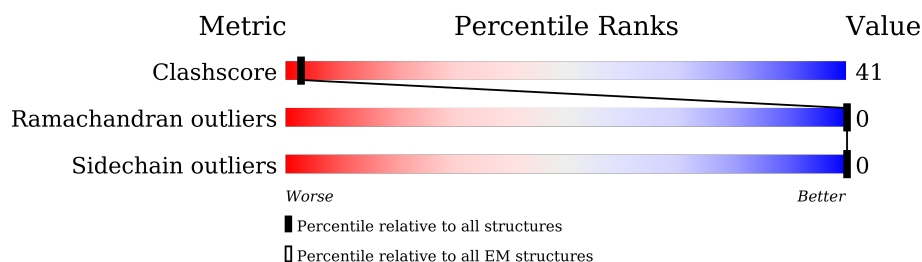
EMDB validation analysis : 0.0.1.dev133
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.50

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 6.85 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	459 (6.35 - 7.30)

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

Mol	Chain	Length	Quality of chain
1	A	2053	9% 32% 50% 18%
1	C	2053	9% 32% 50% 18%
1	E	2053	8% 32% 50% 18%
1	G	2053	7% 32% 50% 18%

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Mol	Chain	Length	Quality of chain
2	B	184	18% 43% 53% .
2	D	184	15% 42% 54% .
2	F	184	45% 42% 54% .
2	H	184	47% 40% 57% .

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 59424 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Dedicator of cytokinesis protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		
1	C	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		
1	E	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		
1	G	1688	Total	C	N	O	S	0	0
			13471	8606	2331	2475	59		

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP Q96HP0
A	-4	GLY	-	expression tag	UNP Q96HP0
A	-3	SER	-	expression tag	UNP Q96HP0
A	-2	GLY	-	expression tag	UNP Q96HP0
A	-1	GLY	-	expression tag	UNP Q96HP0
A	0	SER	-	expression tag	UNP Q96HP0
C	-5	GLY	-	expression tag	UNP Q96HP0
C	-4	GLY	-	expression tag	UNP Q96HP0
C	-3	SER	-	expression tag	UNP Q96HP0
C	-2	GLY	-	expression tag	UNP Q96HP0
C	-1	GLY	-	expression tag	UNP Q96HP0
C	0	SER	-	expression tag	UNP Q96HP0
E	-5	GLY	-	expression tag	UNP Q96HP0
E	-4	GLY	-	expression tag	UNP Q96HP0
E	-3	SER	-	expression tag	UNP Q96HP0
E	-2	GLY	-	expression tag	UNP Q96HP0
E	-1	GLY	-	expression tag	UNP Q96HP0
E	0	SER	-	expression tag	UNP Q96HP0
G	-5	GLY	-	expression tag	UNP Q96HP0
G	-4	GLY	-	expression tag	UNP Q96HP0
G	-3	SER	-	expression tag	UNP Q96HP0
G	-2	GLY	-	expression tag	UNP Q96HP0

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Chain	Residue	Modelled	Actual	Comment	Reference
G	-1	GLY	-	expression tag	UNP Q96HP0
G	0	SER	-	expression tag	UNP Q96HP0

- Molecule 2 is a protein called Ras-related C3 botulinum toxin substrate 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		
2	D	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		
2	F	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		
2	H	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		

There are 32 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-6	GLY	-	expression tag	UNP P63000
B	-5	SER	-	expression tag	UNP P63000
B	-4	SER	-	expression tag	UNP P63000
B	-3	GLY	-	expression tag	UNP P63000
B	-2	SER	-	expression tag	UNP P63000
B	-1	SER	-	expression tag	UNP P63000
B	0	GLY	-	expression tag	UNP P63000
B	15	ALA	GLY	engineered mutation	UNP P63000
D	-6	GLY	-	expression tag	UNP P63000
D	-5	SER	-	expression tag	UNP P63000
D	-4	SER	-	expression tag	UNP P63000
D	-3	GLY	-	expression tag	UNP P63000
D	-2	SER	-	expression tag	UNP P63000
D	-1	SER	-	expression tag	UNP P63000
D	0	GLY	-	expression tag	UNP P63000
D	15	ALA	GLY	engineered mutation	UNP P63000
F	-6	GLY	-	expression tag	UNP P63000
F	-5	SER	-	expression tag	UNP P63000
F	-4	SER	-	expression tag	UNP P63000
F	-3	GLY	-	expression tag	UNP P63000
F	-2	SER	-	expression tag	UNP P63000
F	-1	SER	-	expression tag	UNP P63000
F	0	GLY	-	expression tag	UNP P63000
F	15	ALA	GLY	engineered mutation	UNP P63000

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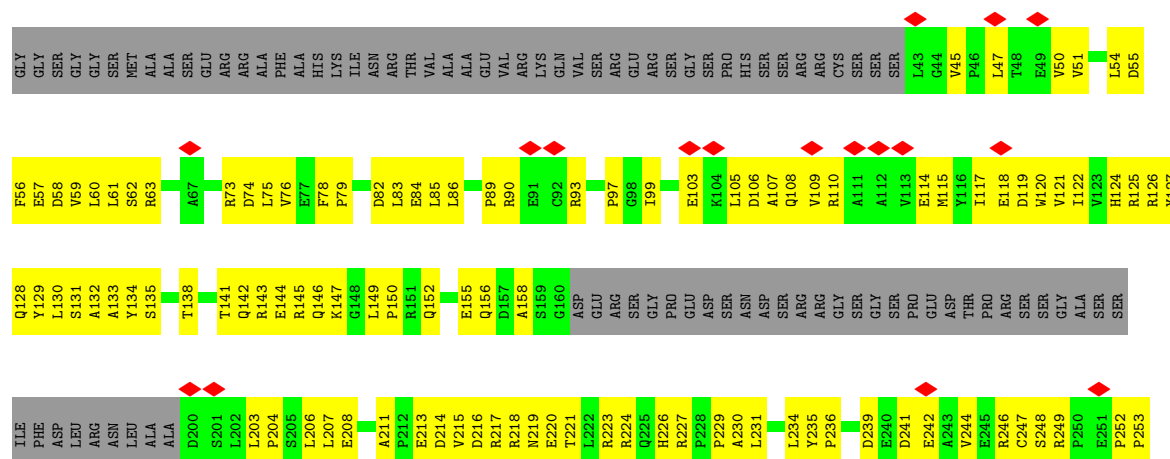
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Chain	Residue	Modelled	Actual	Comment	Reference
H	-6	GLY	-	expression tag	UNP P63000
H	-5	SER	-	expression tag	UNP P63000
H	-4	SER	-	expression tag	UNP P63000
H	-3	GLY	-	expression tag	UNP P63000
H	-2	SER	-	expression tag	UNP P63000
H	-1	SER	-	expression tag	UNP P63000
H	0	GLY	-	expression tag	UNP P63000
H	15	ALA	GLY	engineered mutation	UNP P63000





- Molecule 1: Deducator of cytokinesis protein 6

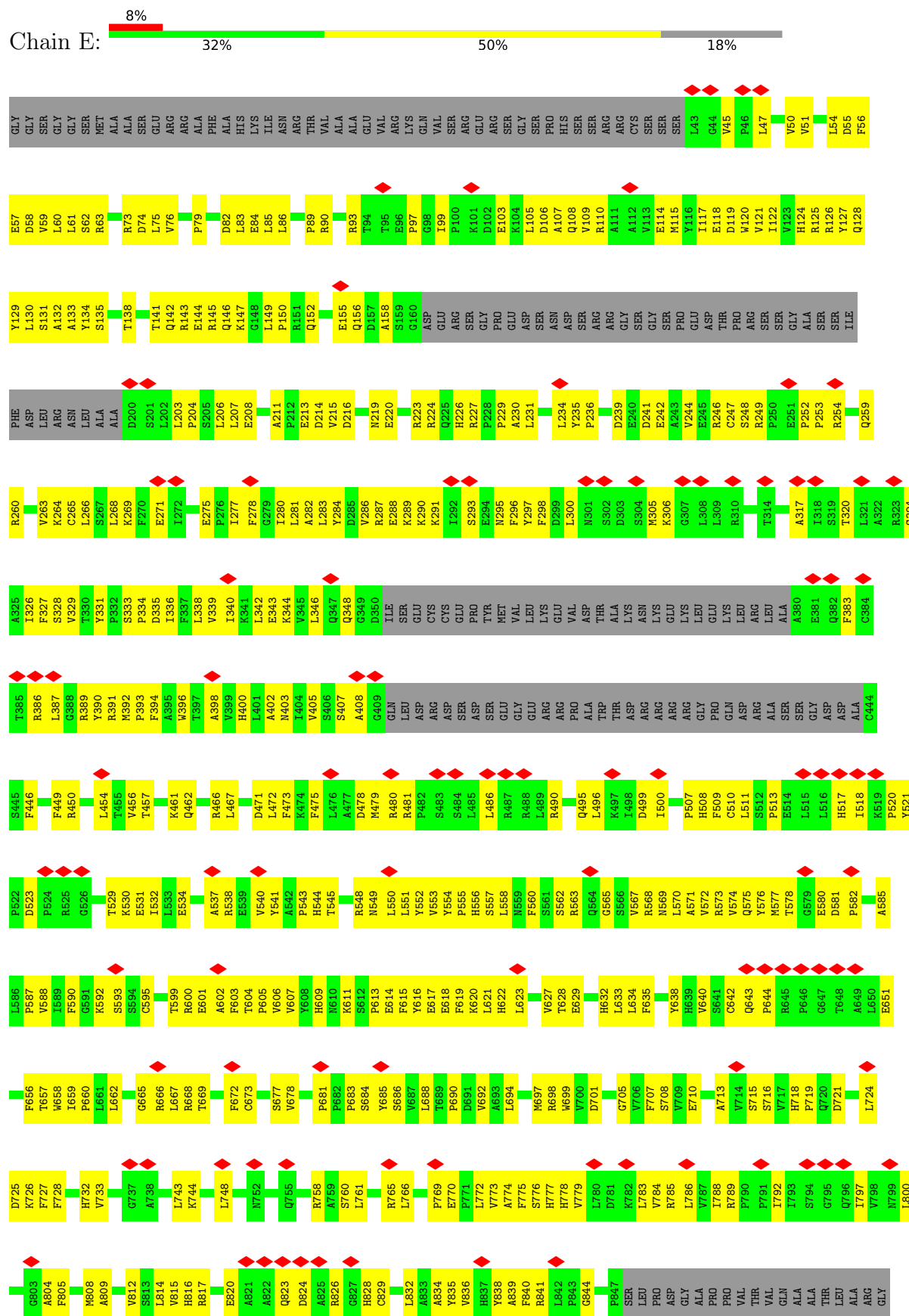






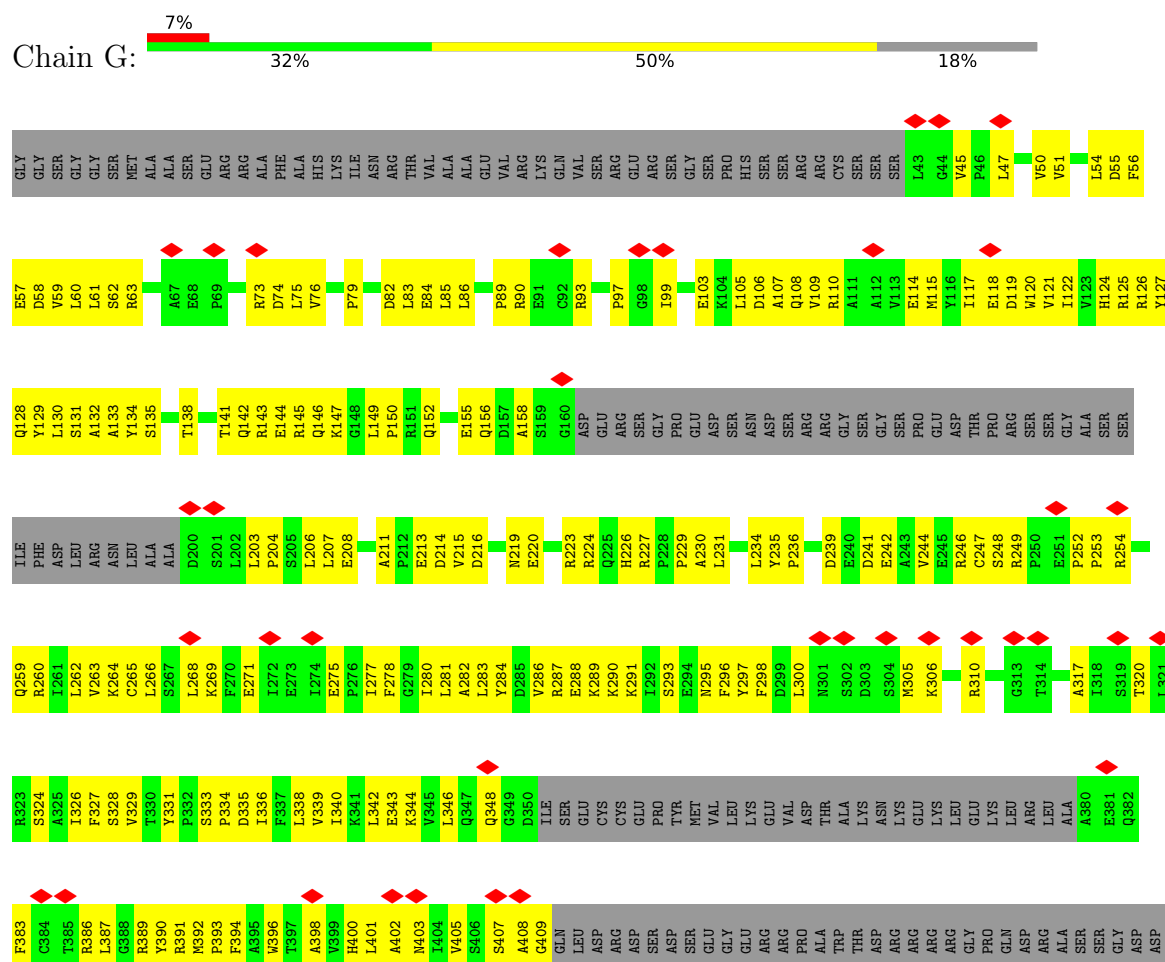
● Molecule 1: Dedicator of cytokinesis protein 6

Chain E:



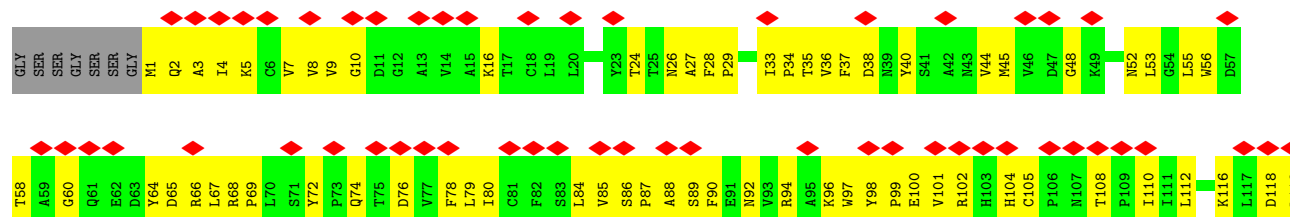


- Molecule 1: Dedicator of cytokinesis protein 6



V1257	L1258	W1259	V1260	L1261	K1262	N1263	T1264	E1265	P1266	A1267	L1268	L1269	Q1270	R1271	W1272	A1273	T1274	D1275	L1276	T1277	L1278	P1279	Q1280	L1281	G1282	R1283	L1284	L1285	D1286	L1287	L1288	Y1289	G1290	C1291	L1292	A1293	A1294	E1295	F1296	Y1297	K1298	G1299	A1302	E1303	R1305	I1306	N1307	SER	LEU	THR	PHE	LYS	LYS	SER	LEU	ASP	MET
ALA	C444	S445	F446	F449	R450	L454	T455	V456	T457	K461	Q462	E463	A464	E465	R466	L467	S468	D469	E470	L472	F473	F475	L476	A477	D478	M479	R480	S484	L485	L486	R490	Q495	L496	D499	I500	E505	N506	P507	H508	F509	C510	L511	S512	P513	H517	I518	K519	P520									
Y521	P522	S523	P524	R525	T529	K530	E531	I532	L533	E534	A537	R538	E539	V540	P541	A542	P543	H544	T545	R548	N549	L550	F551	Y552	V553	Y554	P555	H556	S557	F560	S561	S562	R563	Q564	G565	S566	V567	R568	N569	L570	A571	V572	R573	V574	Q575	H576	M577	T578	G579	E580	S583	Q584	A585	L586			
P587	V588	I589	F590	G591	K592	S593	S594	C595	S596	T599	R600	E601	A602	F603	T604	P605	V606	V607	G608	H609	K611	S612	P613	F615	Y616	E617	E618	F619	K620	S621	L622	L623	P624	A625	C626	G627	T628	E629	M630	H631	H632	L633	L634	F635	Y638	H639	V640	S641	C642	Q643	P644	R645	P646	G647	T648		
A649	L650	E651	F656	L657	W658	I659	P660	L661	L662	R666	L667	R668	T669	F672	C673	S677	V678	P681	P682	P683	S684	Y685	S686	V687	L688	T689	P690	H691	V692	A693	L694	P695	G696	M697	R698	D701	G702	H703	K704	G705	V706	F707	S708	V709	E710	A713	S715	S716	V717	H718	P719						
Q720	D721	L724	D725	K726	F727	F728	H732	V733	G737	L743	K744	L748	Q755	E756	L757	R758	A759	S760	L761	R765	L766	P769	E770	V773	A774	F775	S776	H777	H778	V779	L780	L783	R784	R785	L786	V787	I788	R789	P790	P791	I792	I793	S794	I797	V798	N799											
L800	G801	R802	G803	A804	F805	M808	A809	V812	S813	L814	V815	H816	R817	E820	A821	A822	Q823	D824	A825	G827	L832	A833	A834	Y835	V836	H837	Y838	A839	F840	R841	L842	P843	G844	P847	SER	LEU	PRO	ASP	GLY	ALA	PRO	VAL	THR	GLN	ALA	THR	LEU	ALA									
ARG	GLY	SER	GLY	ARG	PRO	ALA	SER	LEU	TVR	LEU	ALA	ARG	SER	LYS	ILE	SER	SER	ASN	PRO	ASP	VAL	D897	F898	V899	S900	R901	A839	F840	R841	L842	P843	G844	P847	SER	LEU	PRO	ASP	GLY	ALA	PRO	VAL	THR	GLN	ALA	THR	LEU	E925										
A926	I927	L928	Q929	H930	A931	W932	F933	F934	F935	Q936	L937	H938	V939	S940	S941	N942	H945	L946	L947	Q950	R951	T954	P955	R956	K957	L958	R959	G962	A963	F964	L965	T968	V972	V975	G976	L977	E978	V983	H984	L989	A990	E991	H992	L993	H994	A995	L997										
A998	F999	L1001	S1002	D1003	L1004	W1005	F1006	S1007	F1008	L1009	V1010	G1011	F1012	V1013	F1014	S1015	L1016	V1017	R1018	Y1021	K1022	Q1023	V1024	A1025	T1026	K1027	L1028	S1031	P1034	L1037	L1038	T1039	P1040	R1041	L1042	S1043	F1044	T1045	R1046	L1047	L1048	C1049	H1051	E1052	H1053	V1054	V1055	E991	H992	L993	H994	A995	L997				
C1062	P1063	L1064	S1065	PRO	PRO	ALA	SER	PRO	THR	SER	GLN	SER	VAL	SER	THR	THR	PHE	SER	SER	Q1087	D1090	P1091	K1092	V1093	T1094	S1095	M1096	L1099	S1100	G1101	P1102	F1103	R1104	Q1105	Q1106	H1107	F1108	L1109	A1110	G1111	L1112	L1113	L1114	T1115	E1116	L1117	A1120	L1121	E1122	P1123	E1124						
A1128	F1129	L1130	L1131	H1132	K1133	K1134	A1135	A1136	T1137	A1138	V1139	L1142	L1143	L1144	H1146	D1149	P1150	R1151	Y1152	A1153	E1154	A1155	T1156	V1157	K1158	A1159	R1160	V1161	A1162	E1163	L1164	Y1165	L1166	P1167	L1168	L1169	S1170	I1171	A1172	R1173	D1174	T1175	L1176	P1177	R1178	L1179	F1182	A1183	E1184	GLY	PRO	GLY	GLN	ARG	SER		
ARG	LEU	ALA	SER	MET	LEU	ASP	ASP	THR	GLU	GLY	GLY	GLY	ASP	ILE	ALA	THR	ILE	ASN	PRO	SER	VAL	ALA	MET	ALA	ILE	ALA	GLY	GLY	PRO	LEU	ALA	PRO	GLY	ARG	ILE	GLN	GLY	PRO	THR	ALA	SER	ARG	ALA	GLY	C1243	E1248	S1249	S1250	A1255	C1256							





R120	D121	D122	K123	D124	T125	I126	E127	K128	L129	K130	E131	K132	K133	L134	T135	P136	I137	T138	Y139	P140	Q141	G142	L143	A144	M145	M146	K147	E148	I149	G150	A151	V152	K153	Y154	L155	E156	C157	S158	A159	L160	T161	Q162	R163	G164	L165	K166	T167	V168	F169	D170	E171	A172	I173	R174	A175	V176	L177
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4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	112745	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	49.5	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.095	Depositor
Minimum map value	-0.058	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	452.2, 452.2, 452.2	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.30	0/13787	0.58	1/18706 (0.0%)
1	C	0.30	0/13787	0.58	1/18706 (0.0%)
1	E	0.30	0/13787	0.58	1/18706 (0.0%)
1	G	0.30	0/13787	0.58	1/18706 (0.0%)
2	B	0.24	0/1415	0.56	0/1924
2	D	0.24	0/1415	0.56	0/1924
2	F	0.24	0/1415	0.56	0/1924
2	H	0.24	0/1415	0.56	0/1924
All	All	0.29	0/60808	0.58	4/82520 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1620	MET	CB-CG-SD	-5.18	97.16	112.70
1	E	1620	MET	CB-CG-SD	-5.18	97.17	112.70
1	A	1620	MET	CB-CG-SD	-5.17	97.19	112.70
1	G	1620	MET	CB-CG-SD	-5.17	97.21	112.70

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	13471	0	13448	1129	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	13471	0	13448	1131	0
1	E	13471	0	13448	1123	0
1	G	13471	0	13448	1129	0
2	B	1385	0	1407	110	0
2	D	1385	0	1407	100	0
2	F	1385	0	1407	121	0
2	H	1385	0	1407	111	0
All	All	59424	0	59420	4847	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 41.

All (4847) 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:A:1731:GLN:HG2	1:C:1731:GLN:HG2	1.38	1.04
1:E:1932:MET:HE2	2:F:56:TRP:HA	1.41	1.02
1:A:1731:GLN:CG	1:C:1731:GLN:HG2	1.91	0.99
1:E:1720:TYR:HB3	1:G:1738:MET:HE2	1.47	0.97
1:E:1756:PHE:O	1:E:1766:GLU:HA	1.65	0.96
1:G:1756:PHE:O	1:G:1766:GLU:HA	1.65	0.96
1:A:1756:PHE:O	1:A:1766:GLU:HA	1.65	0.96
1:C:1756:PHE:O	1:C:1766:GLU:HA	1.65	0.95
1:A:1738:MET:SD	1:C:1724:ALA:HB2	2.07	0.95
1:A:1790:TYR:O	1:A:1794:PHE:HB2	1.70	0.92
1:E:1790:TYR:O	1:E:1794:PHE:HB2	1.70	0.92
1:A:1831:THR:HG22	1:A:1835:LYS:HZ3	1.35	0.91
1:C:1790:TYR:O	1:C:1794:PHE:HB2	1.70	0.91
1:E:1720:TYR:HB3	1:G:1738:MET:CE	1.99	0.91
1:G:1790:TYR:O	1:G:1794:PHE:HB2	1.70	0.91
1:E:1831:THR:HG22	1:E:1835:LYS:HZ3	1.35	0.91
1:G:1051:HIS:HB3	1:G:1054:TYR:HB2	1.54	0.90
1:A:1051:HIS:HB3	1:A:1054:TYR:HB2	1.54	0.90
1:C:1831:THR:HG22	1:C:1835:LYS:HZ3	1.36	0.90
1:G:1831:THR:HG22	1:G:1835:LYS:HZ3	1.35	0.89
1:A:1714:LEU:O	1:A:1718:ARG:N	2.06	0.89
1:A:1723:LEU:HB3	1:C:1734:PHE:HZ	1.36	0.89
1:E:1714:LEU:O	1:E:1718:ARG:N	2.06	0.89
1:E:1051:HIS:HB3	1:E:1054:TYR:HB2	1.54	0.88
1:G:1909:MET:HE1	1:G:1974:PHE:HA	1.56	0.88
1:C:1714:LEU:O	1:C:1718:ARG:N	2.06	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1714:LEU:O	1:G:1718:ARG:N	2.06	0.87
1:C:1909:MET:HE1	1:C:1974:PHE:HA	1.56	0.87
1:E:1093:VAL:HA	1:E:1096:MET:HG2	1.57	0.87
1:A:1093:VAL:HA	1:A:1096:MET:HG2	1.57	0.87
1:A:1723:LEU:HB2	1:C:1738:MET:HE1	1.57	0.87
1:A:1724:ALA:HB2	1:C:1738:MET:SD	2.15	0.86
1:E:1582:MET:HA	1:E:1585:ILE:HD12	1.57	0.86
1:G:1582:MET:HA	1:G:1585:ILE:HD12	1.57	0.86
1:C:980:ILE:HG22	1:C:1027:ARG:HE	1.39	0.86
1:E:916:TRP:HZ2	1:E:934:PHE:HB3	1.40	0.86
1:G:223:ARG:NH2	1:G:1397:GLU:OE1	2.08	0.86
1:E:980:ILE:HG22	1:E:1027:ARG:HE	1.39	0.86
1:A:916:TRP:HZ2	1:A:934:PHE:HB3	1.40	0.86
1:C:223:ARG:NH2	1:C:1397:GLU:OE1	2.08	0.86
1:C:1582:MET:HA	1:C:1585:ILE:HD12	1.57	0.86
1:C:1051:HIS:HB3	1:C:1054:TYR:HB2	1.54	0.86
1:G:980:ILE:HG22	1:G:1027:ARG:HE	1.39	0.86
1:A:223:ARG:NH2	1:A:1397:GLU:OE1	2.08	0.86
1:A:1582:MET:HA	1:A:1585:ILE:HD12	1.57	0.85
1:C:916:TRP:HZ2	1:C:934:PHE:HB3	1.40	0.85
1:A:1909:MET:HE1	1:A:1974:PHE:HA	1.56	0.85
1:E:1909:MET:HE1	1:E:1974:PHE:HA	1.56	0.85
1:E:223:ARG:NH2	1:E:1397:GLU:OE1	2.08	0.85
2:F:94:ARG:NH1	2:F:148:GLU:OE2	2.10	0.85
1:G:132:ALA:O	1:G:246:ARG:NH2	2.10	0.84
1:E:678:VAL:HG21	1:E:698:ARG:HH11	1.43	0.84
1:E:223:ARG:NE	1:E:1394:ASP:OD1	2.10	0.84
1:G:1093:VAL:HA	1:G:1096:MET:HG2	1.57	0.84
1:A:980:ILE:HG22	1:A:1027:ARG:HE	1.39	0.84
2:D:94:ARG:NH1	2:D:148:GLU:OE2	2.10	0.84
1:E:132:ALA:O	1:E:246:ARG:NH2	2.10	0.84
1:G:678:VAL:HG21	1:G:698:ARG:HH11	1.42	0.84
1:C:132:ALA:O	1:C:246:ARG:NH2	2.10	0.84
1:C:678:VAL:HG21	1:C:698:ARG:HH11	1.43	0.84
1:C:1093:VAL:HA	1:C:1096:MET:HG2	1.57	0.84
1:A:132:ALA:O	1:A:246:ARG:NH2	2.10	0.83
2:B:94:ARG:NH1	2:B:148:GLU:OE2	2.10	0.83
1:G:223:ARG:NE	1:G:1394:ASP:OD1	2.10	0.83
1:A:1259:TRP:O	1:A:1263:ASN:ND2	2.11	0.83
1:A:223:ARG:NE	1:A:1394:ASP:OD1	2.10	0.83
1:G:1259:TRP:O	1:G:1263:ASN:ND2	2.11	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:60:GLY:HA2	2:H:97:TRP:HH2	1.44	0.83
2:H:94:ARG:NH1	2:H:148:GLU:OE2	2.10	0.83
1:C:1259:TRP:O	1:C:1263:ASN:ND2	2.11	0.83
1:G:916:TRP:HZ2	1:G:934:PHE:HB3	1.40	0.83
1:E:1259:TRP:O	1:E:1263:ASN:ND2	2.11	0.83
2:B:60:GLY:HA2	2:B:97:TRP:HH2	1.44	0.83
1:E:1941:THR:HG21	2:F:58:THR:HA	1.61	0.83
1:G:1572:GLN:HA	1:G:1578:LEU:HD21	1.61	0.83
1:C:223:ARG:NE	1:C:1394:ASP:OD1	2.10	0.83
1:C:1572:GLN:HA	1:C:1578:LEU:HD21	1.61	0.83
1:G:1005:LEU:HD21	1:G:1013:VAL:HG11	1.61	0.83
1:A:678:VAL:HG21	1:A:698:ARG:HH11	1.43	0.82
1:E:694:LEU:HB2	1:E:697:MET:HE2	1.62	0.82
1:A:694:LEU:HB2	1:A:697:MET:HE2	1.62	0.82
1:C:1005:LEU:HD21	1:C:1013:VAL:HG11	1.61	0.82
1:G:1756:PHE:O	1:G:1766:GLU:CA	2.28	0.82
1:A:927:ILE:O	1:A:931:ALA:HB2	1.79	0.82
1:E:927:ILE:O	1:E:931:ALA:HB2	1.79	0.82
1:E:1756:PHE:O	1:E:1766:GLU:CA	2.28	0.82
1:G:1824:TYR:HE1	2:H:27:ALA:HA	1.45	0.82
1:C:231:LEU:HB2	1:C:1262:LYS:HZ2	1.45	0.81
1:G:1526:ARG:HH12	1:G:1559:HIS:CD2	1.99	0.81
1:C:1756:PHE:O	1:C:1766:GLU:CA	2.28	0.81
1:A:1526:ARG:HH12	1:A:1559:HIS:CD2	1.99	0.81
1:C:344:LYS:HG2	1:C:394:PHE:HB2	1.63	0.81
1:C:927:ILE:O	1:C:931:ALA:HB2	1.79	0.81
1:C:1526:ARG:HH12	1:C:1559:HIS:CD2	1.99	0.81
1:E:1005:LEU:HD21	1:E:1013:VAL:HG11	1.61	0.81
1:E:1572:GLN:HA	1:E:1578:LEU:HD21	1.61	0.81
1:G:57:GLU:OE2	1:G:1010:ARG:NE	2.14	0.81
1:G:344:LYS:HG2	1:G:394:PHE:HB2	1.63	0.81
1:A:1572:GLN:HA	1:A:1578:LEU:HD21	1.61	0.81
1:C:694:LEU:HB2	1:C:697:MET:HE2	1.62	0.81
1:C:683:PRO:HB2	2:F:143:LEU:HD21	1.60	0.81
1:E:57:GLU:OE2	1:E:1010:ARG:NE	2.13	0.81
1:C:344:LYS:HB2	1:C:392:MET:HB2	1.63	0.81
1:E:1526:ARG:HH12	1:E:1559:HIS:CD2	1.99	0.81
1:A:1005:LEU:HD21	1:A:1013:VAL:HG11	1.61	0.81
1:G:344:LYS:HB2	1:G:392:MET:HB2	1.63	0.81
1:C:683:PRO:HG2	2:F:139:TYR:CD2	2.16	0.80
1:G:927:ILE:O	1:G:931:ALA:HB2	1.79	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:57:GLU:OE2	1:C:1010:ARG:NE	2.14	0.80
1:A:1756:PHE:O	1:A:1766:GLU:CA	2.28	0.80
1:E:344:LYS:HB2	1:E:392:MET:HB2	1.63	0.80
1:G:694:LEU:HB2	1:G:697:MET:HE2	1.62	0.80
1:A:1437:LEU:O	1:A:1440:GLN:NE2	2.15	0.80
1:A:1999:TYR:OH	2:B:66:ARG:NH1	2.14	0.80
2:F:60:GLY:HA2	2:F:97:TRP:HH2	1.44	0.80
2:D:60:GLY:HA2	2:D:97:TRP:HH2	1.44	0.80
1:A:344:LYS:HB2	1:A:392:MET:HB2	1.63	0.79
1:E:1454:GLU:OE1	1:E:1454:GLU:N	2.14	0.79
1:A:344:LYS:HG2	1:A:394:PHE:HB2	1.62	0.79
1:E:344:LYS:HG2	1:E:394:PHE:HB2	1.63	0.79
1:E:1437:LEU:O	1:E:1440:GLN:NE2	2.15	0.79
1:G:1437:LEU:O	1:G:1440:GLN:NE2	2.15	0.79
1:A:57:GLU:OE2	1:A:1010:ARG:NE	2.14	0.79
1:A:231:LEU:HB2	1:A:1262:LYS:HZ2	1.47	0.79
1:E:231:LEU:HB2	1:E:1262:LYS:HZ2	1.46	0.79
1:A:1446:LYS:HZ2	1:A:1447:PHE:HD2	1.28	0.79
1:C:1437:LEU:O	1:C:1440:GLN:NE2	2.15	0.79
1:G:231:LEU:HB2	1:G:1262:LYS:HZ2	1.45	0.79
1:E:1446:LYS:HZ2	1:E:1447:PHE:HD2	1.29	0.79
1:G:788:ILE:HG13	1:G:789:ARG:HG2	1.65	0.79
1:G:1454:GLU:N	1:G:1454:GLU:OE1	2.14	0.79
1:C:1049:CYS:HA	1:C:1054:TYR:CE2	2.18	0.79
1:G:1700:TYR:HA	1:G:1703:VAL:HG12	1.65	0.79
1:C:784:VAL:HG21	1:C:840:PHE:HE1	1.48	0.78
1:A:788:ILE:HG13	1:A:789:ARG:HG2	1.65	0.78
1:E:784:VAL:HG21	1:E:840:PHE:HE1	1.48	0.78
1:E:1049:CYS:HA	1:E:1054:TYR:CE2	2.18	0.78
1:G:1501:ARG:O	1:G:1504:MET:HG3	1.83	0.78
1:A:1501:ARG:O	1:A:1504:MET:HG3	1.83	0.78
1:A:1049:CYS:HA	1:A:1054:TYR:CE2	2.18	0.78
1:C:554:TYR:HB2	1:C:710:GLU:HB3	1.66	0.78
1:E:1501:ARG:O	1:E:1504:MET:HG3	1.83	0.78
1:G:1049:CYS:HA	1:G:1054:TYR:CE2	2.18	0.78
1:A:1700:TYR:HA	1:A:1703:VAL:HG12	1.65	0.78
1:A:956:ARG:HA	1:A:959:ARG:HG2	1.65	0.78
1:G:784:VAL:HG21	1:G:840:PHE:HE1	1.48	0.78
1:G:554:TYR:HB2	1:G:710:GLU:HB3	1.66	0.78
1:G:956:ARG:HA	1:G:959:ARG:HG2	1.65	0.78
1:C:1501:ARG:O	1:C:1504:MET:HG3	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1700:TYR:HA	1:C:1703:VAL:HG12	1.65	0.78
1:C:79:PRO:HG2	1:C:82:ASP:HB3	1.66	0.78
1:E:79:PRO:HG2	1:E:82:ASP:HB3	1.66	0.78
1:A:773:VAL:HG22	1:A:815:VAL:HG23	1.66	0.77
1:C:281:LEU:O	1:C:295:ASN:HA	1.85	0.77
1:E:773:VAL:HG22	1:E:815:VAL:HG23	1.66	0.77
1:A:79:PRO:HG2	1:A:82:ASP:HB3	1.66	0.77
1:C:956:ARG:HA	1:C:959:ARG:HG2	1.65	0.77
1:E:554:TYR:HB2	1:E:710:GLU:HB3	1.66	0.77
1:C:773:VAL:HG22	1:C:815:VAL:HG23	1.66	0.77
1:G:79:PRO:HG2	1:G:82:ASP:HB3	1.66	0.77
1:A:281:LEU:O	1:A:295:ASN:HA	1.85	0.77
1:E:788:ILE:HG13	1:E:789:ARG:HG2	1.65	0.77
1:A:541:TYR:HB3	1:A:773:VAL:HG11	1.67	0.77
1:G:1446:LYS:HZ2	1:G:1447:PHE:HD2	1.29	0.77
1:C:788:ILE:HG13	1:C:789:ARG:HG2	1.65	0.77
1:C:541:TYR:HB3	1:C:773:VAL:HG11	1.67	0.77
2:B:84:LEU:HD13	2:B:120:ARG:HE	1.50	0.77
1:G:281:LEU:O	1:G:295:ASN:HA	1.85	0.77
1:C:1521:SER:HG	1:C:1524:HIS:HD1	1.27	0.77
1:E:149:LEU:HB2	1:E:1379:LEU:HD21	1.67	0.77
1:E:541:TYR:HB3	1:E:773:VAL:HG11	1.67	0.77
1:G:1176:LEU:HD13	1:G:1287:LEU:HD23	1.67	0.77
1:C:718:HIS:NE2	1:C:725:ASP:OD2	2.18	0.76
1:A:1176:LEU:HD13	1:A:1287:LEU:HD23	1.67	0.76
1:A:1454:GLU:OE1	1:A:1454:GLU:N	2.14	0.76
1:C:1446:LYS:HZ2	1:C:1447:PHE:HD2	1.28	0.76
1:E:1700:TYR:HA	1:E:1703:VAL:HG12	1.66	0.76
1:A:554:TYR:HB2	1:A:710:GLU:HB3	1.66	0.76
1:G:773:VAL:HG22	1:G:815:VAL:HG23	1.66	0.76
1:A:784:VAL:HG21	1:A:840:PHE:HE1	1.48	0.76
2:F:84:LEU:HD13	2:F:120:ARG:HE	1.50	0.76
1:C:149:LEU:HB2	1:C:1379:LEU:HD21	1.67	0.76
1:G:541:TYR:HB3	1:G:773:VAL:HG11	1.67	0.76
1:G:718:HIS:NE2	1:G:725:ASP:OD2	2.18	0.76
1:E:956:ARG:HA	1:E:959:ARG:HG2	1.65	0.76
2:D:84:LEU:HD13	2:D:120:ARG:HE	1.50	0.76
1:G:1521:SER:HG	1:G:1524:HIS:HD1	1.27	0.76
1:E:718:HIS:NE2	1:E:725:ASP:OD2	2.18	0.76
1:E:1176:LEU:HD13	1:E:1287:LEU:HD23	1.67	0.76
1:C:1761:PHE:HB3	1:C:1764:LEU:HB3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1945:GLY:HA2	2:H:37:PHE:HE1	1.51	0.76
1:A:1846:GLY:N	1:A:1882:PHE:O	2.19	0.75
1:A:1882:PHE:HE1	1:A:1889:ILE:HD12	1.51	0.75
1:C:1454:GLU:OE1	1:C:1454:GLU:N	2.14	0.75
1:G:1846:GLY:N	1:G:1882:PHE:O	2.19	0.75
1:A:1761:PHE:HB3	1:A:1764:LEU:HB3	1.68	0.75
1:C:1846:GLY:N	1:C:1882:PHE:O	2.19	0.75
1:E:570:LEU:HB2	1:E:613:PRO:HG3	1.69	0.75
1:E:1846:GLY:N	1:E:1882:PHE:O	2.19	0.75
1:G:570:LEU:HB2	1:G:613:PRO:HG3	1.69	0.75
2:H:84:LEU:HD13	2:H:120:ARG:HE	1.50	0.75
1:A:149:LEU:HB2	1:A:1379:LEU:HD21	1.67	0.75
1:A:1431:LEU:O	1:A:1435:HIS:ND1	2.19	0.75
1:C:1431:LEU:O	1:C:1435:HIS:ND1	2.19	0.75
1:C:1618:GLN:NE2	1:C:1883:PRO:O	2.19	0.75
1:G:1761:PHE:HB3	1:G:1764:LEU:HB3	1.68	0.75
1:E:281:LEU:O	1:E:295:ASN:HA	1.85	0.75
1:G:260:ARG:HA	1:G:327:PHE:O	1.87	0.75
1:E:1761:PHE:HB3	1:E:1764:LEU:HB3	1.68	0.75
1:G:149:LEU:HB2	1:G:1379:LEU:HD21	1.67	0.75
1:C:1909:MET:HA	1:C:1912:LYS:HG2	1.69	0.74
1:E:1431:LEU:O	1:E:1435:HIS:ND1	2.19	0.74
1:G:1431:LEU:O	1:G:1435:HIS:ND1	2.19	0.74
1:E:125:ARG:HH12	1:E:1003:ASP:HA	1.52	0.74
2:F:161:THR:HG22	2:F:163:ARG:HD3	1.69	0.74
1:G:125:ARG:HH12	1:G:1003:ASP:HA	1.52	0.74
1:C:260:ARG:HA	1:C:327:PHE:O	1.87	0.74
2:D:161:THR:HG22	2:D:163:ARG:HD3	1.69	0.74
1:G:1882:PHE:HE1	1:G:1889:ILE:HD12	1.51	0.74
1:E:260:ARG:HA	1:E:327:PHE:O	1.87	0.74
1:G:1021:TYR:HH	1:G:1045:THR:HG1	1.13	0.74
1:A:1618:GLN:NE2	1:A:1883:PRO:O	2.19	0.74
1:A:1909:MET:HA	1:A:1912:LYS:HG2	1.69	0.74
2:F:8:VAL:HG22	2:F:79:LEU:HB2	1.70	0.74
1:A:125:ARG:HH12	1:A:1003:ASP:HA	1.52	0.74
1:A:718:HIS:NE2	1:A:725:ASP:OD2	2.18	0.74
1:E:1882:PHE:HE1	1:E:1889:ILE:HD12	1.51	0.74
1:E:152:GLN:NE2	1:E:1379:LEU:O	2.21	0.74
1:E:224:ARG:HG3	1:E:227:ARG:HH12	1.53	0.74
1:E:1936:GLY:N	2:F:39:ASN:OD1	2.21	0.74
1:G:814:LEU:HA	1:G:817:ARG:HD2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1587:ARG:HH21	1:G:1590:GLN:HE22	1.36	0.74
1:A:1392:VAL:O	1:A:1395:THR:OG1	2.06	0.74
1:C:223:ARG:HG2	1:C:227:ARG:HH21	1.52	0.74
1:C:957:LYS:HG3	1:C:958:LEU:HD12	1.70	0.74
1:C:1176:LEU:HD13	1:C:1287:LEU:HD23	1.67	0.74
1:E:814:LEU:HA	1:E:817:ARG:HD2	1.70	0.74
1:C:570:LEU:HB2	1:C:613:PRO:HG3	1.69	0.74
1:G:224:ARG:HG3	1:G:227:ARG:HH12	1.53	0.74
2:H:161:THR:HG22	2:H:163:ARG:HD3	1.69	0.74
1:C:448:GLY:HA3	1:E:481:ARG:HG2	1.69	0.74
1:C:814:LEU:HA	1:C:817:ARG:HD2	1.70	0.74
1:C:1882:PHE:HE1	1:C:1889:ILE:HD12	1.51	0.74
1:G:1909:MET:HA	1:G:1912:LYS:HG2	1.69	0.74
1:A:224:ARG:HG3	1:A:227:ARG:HH12	1.53	0.73
1:E:223:ARG:HG2	1:E:227:ARG:HH21	1.52	0.73
1:A:93:ARG:HH12	1:A:260:ARG:HH22	1.37	0.73
1:A:223:ARG:HG2	1:A:227:ARG:HH21	1.52	0.73
1:A:260:ARG:HA	1:A:327:PHE:O	1.87	0.73
1:A:957:LYS:HG3	1:A:958:LEU:HD12	1.70	0.73
1:A:563:ARG:HG3	1:A:698:ARG:HH12	1.54	0.73
1:A:1505:GLN:HA	1:A:1508:MET:HG2	1.71	0.73
1:A:1932:MET:HG3	2:B:39:ASN:HB3	1.70	0.73
1:C:224:ARG:HG3	1:C:227:ARG:HH12	1.53	0.73
1:C:1046:ARG:HD2	1:C:1047:ILE:HG13	1.71	0.73
1:E:1727:HIS:CE1	1:G:1731:GLN:HG3	2.23	0.73
1:G:965:LEU:HB3	1:G:1012:PHE:HE2	1.54	0.73
1:A:152:GLN:NE2	1:A:1379:LEU:O	2.21	0.73
1:C:1954:LEU:HD22	1:C:1971:ARG:HD2	1.71	0.73
1:E:809:ALA:HA	1:E:934:PHE:HZ	1.54	0.73
1:G:93:ARG:HH12	1:G:260:ARG:HH22	1.37	0.73
1:G:1392:VAL:O	1:G:1395:THR:OG1	2.06	0.73
1:A:965:LEU:HB3	1:A:1012:PHE:HE2	1.54	0.73
1:A:1932:MET:HE3	2:B:39:ASN:CG	2.14	0.73
2:B:161:THR:HG22	2:B:163:ARG:HD3	1.69	0.73
1:C:152:GLN:NE2	1:C:1379:LEU:O	2.21	0.73
1:C:809:ALA:HA	1:C:934:PHE:HZ	1.54	0.73
1:C:1392:VAL:O	1:C:1395:THR:OG1	2.06	0.73
1:G:223:ARG:HG2	1:G:227:ARG:HH21	1.53	0.73
2:H:8:VAL:HG22	2:H:79:LEU:HB2	1.70	0.73
1:E:957:LYS:HG3	1:E:958:LEU:HD12	1.70	0.73
1:G:152:GLN:NE2	1:G:1379:LEU:O	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:814:LEU:HA	1:A:817:ARG:HD2	1.70	0.73
1:G:1954:LEU:HD22	1:G:1971:ARG:HD2	1.71	0.73
1:A:1046:ARG:HD2	1:A:1047:ILE:HG13	1.71	0.73
1:C:951:ARG:NH2	1:C:958:LEU:O	2.22	0.73
1:C:1587:ARG:HH21	1:C:1590:GLN:HE22	1.36	0.73
1:C:244:VAL:HA	1:C:1046:ARG:HH12	1.53	0.72
1:C:1831:THR:HA	1:C:1834:LEU:HD12	1.71	0.72
2:D:8:VAL:HG22	2:D:79:LEU:HB2	1.70	0.72
1:E:93:ARG:HH12	1:E:260:ARG:HH22	1.37	0.72
1:E:965:LEU:HB3	1:E:1012:PHE:HE2	1.54	0.72
1:E:1392:VAL:O	1:E:1395:THR:OG1	2.06	0.72
1:E:1540:MET:HA	1:E:1543:ARG:HG2	1.71	0.72
2:F:120:ARG:NH2	2:F:156:GLU:OE1	2.22	0.72
1:A:570:LEU:HB2	1:A:613:PRO:HG3	1.69	0.72
1:A:1954:LEU:HD22	1:A:1971:ARG:HD2	1.71	0.72
1:C:93:ARG:HH12	1:C:260:ARG:HH22	1.37	0.72
1:C:965:LEU:HB3	1:C:1012:PHE:HE2	1.54	0.72
1:E:951:ARG:NH2	1:E:958:LEU:O	2.22	0.72
1:E:1909:MET:HA	1:E:1912:LYS:HG2	1.69	0.72
1:G:244:VAL:HA	1:G:1046:ARG:HH12	1.53	0.72
1:G:1505:GLN:HA	1:G:1508:MET:HG2	1.71	0.72
1:A:951:ARG:NH2	1:A:958:LEU:O	2.22	0.72
1:C:63:ARG:HH12	1:C:1063:PRO:HD2	1.54	0.72
1:C:563:ARG:HG3	1:C:698:ARG:HH12	1.54	0.72
1:G:632:HIS:ND1	1:G:659:ILE:O	2.23	0.72
1:G:1540:MET:HA	1:G:1543:ARG:HG2	1.71	0.72
1:A:1540:MET:HA	1:A:1543:ARG:HG2	1.71	0.72
1:C:1540:MET:HA	1:C:1543:ARG:HG2	1.71	0.72
1:E:563:ARG:HG3	1:E:698:ARG:HH12	1.54	0.72
2:B:120:ARG:NH2	2:B:156:GLU:OE1	2.22	0.72
1:C:1505:GLN:HA	1:C:1508:MET:HG2	1.71	0.72
1:C:90:ARG:NH2	1:C:115:MET:O	2.23	0.72
1:E:1831:THR:HA	1:E:1834:LEU:HD12	1.71	0.72
1:A:632:HIS:ND1	1:A:659:ILE:O	2.23	0.72
2:H:120:ARG:NH2	2:H:156:GLU:OE1	2.22	0.72
2:B:8:VAL:HG22	2:B:79:LEU:HB2	1.70	0.72
1:E:63:ARG:HH12	1:E:1063:PRO:HD2	1.54	0.72
1:G:809:ALA:HA	1:G:934:PHE:HZ	1.54	0.72
1:A:809:ALA:HA	1:A:934:PHE:HZ	1.54	0.72
1:C:125:ARG:HH12	1:C:1003:ASP:HA	1.52	0.72
2:D:120:ARG:NH2	2:D:156:GLU:OE1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1954:LEU:HD22	1:E:1971:ARG:HD2	1.71	0.72
1:G:1618:GLN:NE2	1:G:1883:PRO:O	2.19	0.72
1:A:1587:ARG:HH21	1:A:1590:GLN:HE22	1.36	0.72
1:G:1831:THR:HA	1:G:1834:LEU:HD12	1.71	0.72
1:A:1831:THR:HA	1:A:1834:LEU:HD12	1.71	0.71
1:E:244:VAL:HA	1:E:1046:ARG:HH12	1.53	0.71
1:E:1587:ARG:HH21	1:E:1590:GLN:HE22	1.36	0.71
1:G:957:LYS:HG3	1:G:958:LEU:HD12	1.70	0.71
1:A:90:ARG:NH2	1:A:115:MET:O	2.23	0.71
1:E:1855:PRO:HD2	2:F:31:GLU:HG3	1.72	0.71
1:E:632:HIS:ND1	1:E:659:ILE:O	2.23	0.71
1:E:1618:GLN:NE2	1:E:1883:PRO:O	2.19	0.71
1:G:63:ARG:HH12	1:G:1063:PRO:HD2	1.54	0.71
1:G:951:ARG:NH2	1:G:958:LEU:O	2.22	0.71
2:H:24:THR:HG21	2:H:40:TYR:HB3	1.72	0.71
1:A:1750:THR:OG1	1:A:1777:THR:OG1	2.04	0.71
1:C:632:HIS:ND1	1:C:659:ILE:O	2.23	0.71
2:B:24:THR:HG21	2:B:40:TYR:HB3	1.72	0.71
1:C:108:GLN:HG2	1:C:732:HIS:CE1	2.26	0.71
1:E:90:ARG:NH2	1:E:115:MET:O	2.23	0.71
1:A:244:VAL:HA	1:A:1046:ARG:HH12	1.53	0.71
1:A:951:ARG:HB3	1:A:959:ARG:HH21	1.56	0.71
1:E:1046:ARG:HD2	1:E:1047:ILE:HG13	1.71	0.71
1:A:63:ARG:HH12	1:A:1063:PRO:HD2	1.54	0.71
1:A:1837:ARG:NH1	1:A:1845:TYR:O	2.24	0.71
1:C:633:LEU:H	1:C:659:ILE:HG22	1.56	0.71
1:C:1481:ALA:O	1:C:1484:SER:OG	2.09	0.71
1:G:90:ARG:NH2	1:G:115:MET:O	2.23	0.71
1:E:1386:THR:O	1:E:1389:SER:OG	2.09	0.71
1:G:635:PHE:HD1	1:G:657:THR:HG23	1.56	0.71
1:A:108:GLN:HG2	1:A:732:HIS:CE1	2.26	0.70
1:A:1386:THR:O	1:A:1389:SER:OG	2.09	0.70
1:E:951:ARG:HB3	1:E:959:ARG:HH21	1.56	0.70
1:E:1613:HIS:HB3	1:E:1693:TYR:HB3	1.73	0.70
1:G:150:PRO:HG3	1:G:226:HIS:HE1	1.56	0.70
1:G:1046:ARG:HD2	1:G:1047:ILE:HG13	1.71	0.70
1:A:635:PHE:HD1	1:A:657:THR:HG23	1.56	0.70
1:G:548:ARG:O	1:G:716:SER:N	2.24	0.70
1:G:1803:LYS:NZ	2:H:160:LEU:HG	2.06	0.70
1:E:916:TRP:CZ2	1:E:934:PHE:HB3	2.26	0.70
1:A:150:PRO:HG3	1:A:226:HIS:HE1	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:90:ARG:NE	1:C:118:GLU:O	2.25	0.70
1:C:150:PRO:HG3	1:C:226:HIS:HE1	1.56	0.70
1:G:951:ARG:HB3	1:G:959:ARG:HH21	1.56	0.70
1:C:1597:LEU:HD21	1:C:1626:LEU:HD22	1.74	0.70
1:E:1865:GLU:HG3	1:E:1867:PRO:HD2	1.74	0.70
2:F:24:THR:HG21	2:F:40:TYR:HB3	1.72	0.70
1:G:108:GLN:HG2	1:G:732:HIS:CE1	2.26	0.70
1:G:784:VAL:HG21	1:G:840:PHE:CE1	2.26	0.70
1:G:1386:THR:O	1:G:1389:SER:OG	2.09	0.70
1:G:1481:ALA:O	1:G:1484:SER:OG	2.09	0.70
1:A:90:ARG:NE	1:A:118:GLU:O	2.25	0.70
1:A:1597:LEU:HD21	1:A:1626:LEU:HD22	1.73	0.70
1:C:951:ARG:HB3	1:C:959:ARG:HH21	1.56	0.70
1:E:223:ARG:CZ	1:E:224:ARG:HH12	2.05	0.70
1:E:1505:GLN:HA	1:E:1508:MET:HG2	1.71	0.70
1:E:90:ARG:NE	1:E:118:GLU:O	2.25	0.70
1:E:145:ARG:NH2	1:E:230:ALA:HB3	2.07	0.70
1:C:548:ARG:O	1:C:716:SER:N	2.25	0.70
1:C:912:LEU:O	1:C:915:GLN:HG2	1.92	0.70
2:D:125:THR:HA	2:D:128:LYS:HE3	1.74	0.70
1:G:633:LEU:H	1:G:659:ILE:HG22	1.56	0.70
1:C:223:ARG:CZ	1:C:224:ARG:HH12	2.05	0.70
1:E:108:GLN:HG2	1:E:732:HIS:CE1	2.26	0.70
1:E:912:LEU:O	1:E:915:GLN:HG2	1.92	0.70
1:G:563:ARG:HG3	1:G:698:ARG:HH12	1.54	0.70
1:G:1837:ARG:NH1	1:G:1845:TYR:O	2.24	0.70
1:A:633:LEU:H	1:A:659:ILE:HG22	1.56	0.70
1:A:1613:HIS:HB3	1:A:1693:TYR:HB3	1.73	0.70
1:C:1613:HIS:HB3	1:C:1693:TYR:HB3	1.73	0.70
2:D:24:THR:HG21	2:D:40:TYR:HB3	1.72	0.70
1:G:145:ARG:NH2	1:G:230:ALA:HB3	2.07	0.70
1:A:1038:LEU:HA	1:A:1041:ARG:NH2	2.07	0.69
1:A:1865:GLU:HG3	1:A:1867:PRO:HD2	1.74	0.69
1:C:1038:LEU:HA	1:C:1041:ARG:NH2	2.07	0.69
1:E:633:LEU:H	1:E:659:ILE:HG22	1.56	0.69
1:E:1038:LEU:HA	1:E:1041:ARG:NH2	2.07	0.69
1:C:1600:LEU:HD21	1:C:1620:MET:HA	1.74	0.69
1:E:784:VAL:HG21	1:E:840:PHE:CE1	2.26	0.69
1:E:1600:LEU:HD21	1:E:1620:MET:HA	1.74	0.69
1:A:931:ALA:HA	1:A:934:PHE:HD2	1.57	0.69
1:G:1600:LEU:HD21	1:G:1620:MET:HA	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:145:ARG:NH2	1:C:230:ALA:HB3	2.07	0.69
1:C:784:VAL:HG21	1:C:840:PHE:CE1	2.27	0.69
1:C:931:ALA:HA	1:C:934:PHE:HD2	1.58	0.69
1:G:1613:HIS:HB3	1:G:1693:TYR:HB3	1.73	0.69
1:A:145:ARG:NH2	1:A:230:ALA:HB3	2.07	0.69
1:C:635:PHE:HD1	1:C:657:THR:HG23	1.56	0.69
1:C:1837:ARG:NH1	1:C:1845:TYR:O	2.24	0.69
1:A:784:VAL:HG21	1:A:840:PHE:CE1	2.27	0.69
1:A:1428:GLN:HB2	1:A:1433:LEU:HD21	1.75	0.69
1:A:1481:ALA:O	1:A:1484:SER:OG	2.09	0.69
1:E:571:ALA:HB3	1:E:638:TYR:HB2	1.75	0.69
1:E:635:PHE:HD1	1:E:657:THR:HG23	1.56	0.69
2:H:125:THR:HA	2:H:128:LYS:HE3	1.74	0.69
1:E:150:PRO:HG3	1:E:226:HIS:HE1	1.56	0.69
1:E:548:ARG:O	1:E:716:SER:N	2.25	0.69
1:E:1481:ALA:O	1:E:1484:SER:OG	2.09	0.69
2:F:16:LYS:HZ3	2:F:58:THR:H	1.41	0.69
1:G:90:ARG:NE	1:G:118:GLU:O	2.25	0.69
1:G:1865:GLU:HG3	1:G:1867:PRO:HD2	1.74	0.69
1:C:1865:GLU:HG3	1:C:1867:PRO:HD2	1.74	0.69
1:C:1436:GLY:O	1:C:1439:THR:OG1	2.10	0.68
1:E:271:GLU:OE1	1:E:495:GLN:NE2	2.26	0.68
1:G:912:LEU:O	1:G:915:GLN:HG2	1.92	0.68
1:G:1154:GLU:O	1:G:1157:VAL:HG12	1.93	0.68
1:C:1386:THR:O	1:C:1389:SER:OG	2.09	0.68
1:G:85:LEU:HB3	1:G:947:LEU:HD11	1.75	0.68
1:G:1288:LEU:HD22	1:G:1392:VAL:HG13	1.75	0.68
1:G:1597:LEU:HD21	1:G:1626:LEU:HD22	1.74	0.68
1:A:56:PHE:HB2	1:A:1014:PHE:HE2	1.58	0.68
1:A:1998:GLU:O	1:A:2001:ARG:NH1	2.27	0.68
2:B:125:THR:HA	2:B:128:LYS:HE3	1.74	0.68
1:C:271:GLU:OE1	1:C:495:GLN:NE2	2.26	0.68
1:E:105:LEU:O	1:E:110:ARG:NH1	2.26	0.68
1:E:1832:TYR:HA	1:E:1835:LYS:HE2	1.76	0.68
1:G:56:PHE:HB2	1:G:1014:PHE:HE2	1.58	0.68
1:G:223:ARG:CZ	1:G:224:ARG:HH12	2.05	0.68
1:G:1998:GLU:O	1:G:2001:ARG:NH1	2.27	0.68
1:A:105:LEU:O	1:A:110:ARG:NH1	2.26	0.68
1:A:223:ARG:CZ	1:A:224:ARG:HH12	2.05	0.68
1:C:105:LEU:O	1:C:110:ARG:NH1	2.26	0.68
1:C:1288:LEU:HD22	1:C:1392:VAL:HG13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1597:LEU:HD21	1:E:1626:LEU:HD22	1.74	0.68
1:G:271:GLU:OE1	1:G:495:GLN:NE2	2.26	0.68
1:G:393:PRO:HB2	1:G:462:GLN:HG2	1.76	0.68
1:A:271:GLU:OE1	1:A:495:GLN:NE2	2.26	0.68
1:A:912:LEU:O	1:A:915:GLN:HG2	1.92	0.68
1:A:1620:MET:SD	1:A:1693:TYR:HE1	2.17	0.68
1:A:1718:ARG:HH11	1:C:1839:THR:HG22	1.56	0.68
1:C:571:ALA:HB3	1:C:638:TYR:HB2	1.75	0.68
1:G:931:ALA:HA	1:G:934:PHE:HD2	1.58	0.68
1:A:548:ARG:O	1:A:716:SER:N	2.24	0.68
1:A:1038:LEU:CD2	1:A:1041:ARG:HH22	2.06	0.68
1:C:1038:LEU:CD2	1:C:1041:ARG:HH22	2.06	0.68
1:C:1154:GLU:O	1:C:1157:VAL:HG12	1.93	0.68
1:E:85:LEU:HB3	1:E:947:LEU:HD11	1.75	0.68
1:G:1038:LEU:HA	1:G:1041:ARG:NH2	2.08	0.68
1:E:931:ALA:HA	1:E:934:PHE:HD2	1.57	0.68
1:E:1154:GLU:O	1:E:1157:VAL:HG12	1.93	0.68
1:G:916:TRP:CZ2	1:G:934:PHE:HB3	2.26	0.68
1:A:85:LEU:HB3	1:A:947:LEU:HD11	1.75	0.68
1:A:393:PRO:HB2	1:A:462:GLN:HG2	1.76	0.68
1:A:571:ALA:HB3	1:A:638:TYR:HB2	1.75	0.68
1:A:580:GLU:OE1	1:A:686:SER:N	2.25	0.68
1:A:1163:GLU:HA	1:A:1166:LEU:HG	1.76	0.68
1:A:1600:LEU:HD21	1:A:1620:MET:HA	1.74	0.68
2:B:5:LYS:HZ2	2:B:74:GLN:HB3	1.59	0.68
1:C:1428:GLN:HB2	1:C:1433:LEU:HD21	1.75	0.68
1:E:1146:HIS:NE2	1:E:1165:TYR:OH	2.27	0.68
2:F:125:THR:HA	2:F:128:LYS:HE3	1.74	0.68
1:A:403:ASN:ND2	1:G:409:GLY:O	2.26	0.68
1:A:1154:GLU:O	1:A:1157:VAL:HG12	1.93	0.68
1:A:1259:TRP:CD1	1:A:1262:LYS:HD3	2.29	0.68
1:A:1832:TYR:HA	1:A:1835:LYS:HE2	1.76	0.68
1:E:544:HIS:ND1	1:E:774:ALA:O	2.27	0.68
1:E:1038:LEU:CD2	1:E:1041:ARG:HH22	2.06	0.68
1:E:1038:LEU:HD23	1:E:1041:ARG:HH22	1.59	0.68
1:G:105:LEU:O	1:G:110:ARG:NH1	2.26	0.68
1:G:776:SER:HA	1:G:779:VAL:HB	1.76	0.68
1:C:85:LEU:HB3	1:C:947:LEU:HD11	1.75	0.67
1:C:683:PRO:HG2	2:F:139:TYR:CE2	2.29	0.67
1:G:1038:LEU:CD2	1:G:1041:ARG:HH22	2.06	0.67
1:G:1503:LYS:HD2	1:G:1554:LEU:HD11	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1620:MET:SD	1:G:1693:TYR:HE1	2.17	0.67
1:G:1832:TYR:HA	1:G:1835:LYS:HE2	1.76	0.67
1:E:56:PHE:HB2	1:E:1014:PHE:HE2	1.58	0.67
1:G:1058:ASN:O	1:G:1107:HIS:ND1	2.28	0.67
1:G:1436:GLY:O	1:G:1439:THR:OG1	2.10	0.67
1:C:776:SER:HA	1:C:779:VAL:HB	1.76	0.67
1:E:1428:GLN:HB2	1:E:1433:LEU:HD21	1.75	0.67
1:G:1143:LEU:HA	1:G:1146:HIS:HD2	1.59	0.67
1:G:1928:LYS:O	1:G:1931:GLN:NE2	2.26	0.67
1:A:1723:LEU:CB	1:C:1738:MET:HE1	2.25	0.67
1:C:1038:LEU:HD23	1:C:1041:ARG:HH22	1.59	0.67
1:E:951:ARG:HB3	1:E:959:ARG:NH2	2.10	0.67
1:G:571:ALA:HB3	1:G:638:TYR:HB2	1.75	0.67
1:A:1482:SER:HA	1:A:1485:LEU:HD12	1.77	0.67
1:C:544:HIS:ND1	1:C:774:ALA:O	2.27	0.67
1:C:786:LEU:HD23	1:C:804:ALA:HB2	1.77	0.67
1:E:1288:LEU:HD22	1:E:1392:VAL:HG13	1.76	0.67
1:E:1503:LYS:HD2	1:E:1554:LEU:HD11	1.76	0.67
1:G:45:VAL:HB	1:G:1104:ARG:HH12	1.59	0.67
1:A:462:GLN:NE2	1:A:466:ARG:HA	2.10	0.67
1:A:1146:HIS:NE2	1:A:1165:TYR:OH	2.27	0.67
1:C:56:PHE:HB2	1:C:1014:PHE:HE2	1.58	0.67
1:C:1749:GLY:HA3	1:C:1773:GLU:O	1.95	0.67
1:C:1998:GLU:O	1:C:2001:ARG:NH1	2.27	0.67
1:G:580:GLU:OE1	1:G:686:SER:N	2.25	0.67
1:G:629:GLU:O	1:G:632:HIS:NE2	2.28	0.67
1:G:1749:GLY:HA3	1:G:1773:GLU:O	1.95	0.67
1:C:629:GLU:O	1:C:632:HIS:NE2	2.28	0.67
1:C:1620:MET:SD	1:C:1693:TYR:HE1	2.17	0.67
1:A:544:HIS:ND1	1:A:774:ALA:O	2.27	0.67
1:A:629:GLU:O	1:A:632:HIS:NE2	2.28	0.67
1:A:1058:ASN:O	1:A:1107:HIS:ND1	2.28	0.67
1:C:1259:TRP:CD1	1:C:1262:LYS:HD3	2.29	0.67
2:D:16:LYS:HZ3	2:D:58:THR:H	1.42	0.67
1:E:1163:GLU:HA	1:E:1166:LEU:HG	1.76	0.67
1:E:1620:MET:SD	1:E:1693:TYR:HE1	2.17	0.67
1:E:1999:TYR:CD2	2:F:70:LEU:HB3	2.30	0.67
1:G:544:HIS:ND1	1:G:774:ALA:O	2.27	0.67
1:G:1259:TRP:CD1	1:G:1262:LYS:HD3	2.29	0.67
1:C:783:LEU:HB3	1:C:808:MET:HE3	1.77	0.67
1:C:916:TRP:CZ2	1:C:934:PHE:HB3	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:951:ARG:HB3	1:G:959:ARG:NH2	2.10	0.67
1:A:45:VAL:HB	1:A:1104:ARG:HH12	1.59	0.67
1:A:776:SER:HA	1:A:779:VAL:HB	1.76	0.67
1:A:1503:LYS:HD2	1:A:1554:LEU:HD11	1.76	0.67
1:C:1832:TYR:HA	1:C:1835:LYS:HE2	1.76	0.67
1:E:244:VAL:HA	1:E:1046:ARG:NH1	2.10	0.67
1:E:1259:TRP:CD1	1:E:1262:LYS:HD3	2.29	0.67
1:E:1998:GLU:O	1:E:2001:ARG:NH1	2.27	0.67
1:G:1163:GLU:HA	1:G:1166:LEU:HG	1.76	0.67
1:A:951:ARG:HB3	1:A:959:ARG:NH2	2.10	0.66
1:C:1058:ASN:O	1:C:1107:HIS:ND1	2.28	0.66
1:C:1143:LEU:HA	1:C:1146:HIS:HD2	1.59	0.66
1:C:1529:LEU:HA	1:C:1532:ILE:HG12	1.77	0.66
1:E:1143:LEU:HA	1:E:1146:HIS:HD2	1.59	0.66
1:A:1288:LEU:HD22	1:A:1392:VAL:HG13	1.76	0.66
1:A:1723:LEU:HB3	1:C:1734:PHE:CZ	2.25	0.66
1:C:462:GLN:NE2	1:C:466:ARG:HA	2.10	0.66
1:C:1146:HIS:NE2	1:C:1165:TYR:OH	2.27	0.66
1:E:783:LEU:HB3	1:E:808:MET:HE3	1.77	0.66
1:E:786:LEU:HD23	1:E:804:ALA:HB2	1.77	0.66
1:G:462:GLN:NE2	1:G:466:ARG:HA	2.10	0.66
1:G:556:HIS:HB2	1:G:708:SER:HB3	1.77	0.66
1:C:556:HIS:HB2	1:C:708:SER:HB3	1.77	0.66
1:E:629:GLU:O	1:E:632:HIS:NE2	2.28	0.66
1:E:776:SER:HA	1:E:779:VAL:HB	1.76	0.66
1:E:1058:ASN:O	1:E:1107:HIS:ND1	2.28	0.66
1:E:1837:ARG:NH1	1:E:1845:TYR:O	2.24	0.66
1:A:556:HIS:HB2	1:A:708:SER:HB3	1.77	0.66
1:C:951:ARG:HB3	1:C:959:ARG:NH2	2.10	0.66
1:E:1999:TYR:CZ	2:F:69:PRO:HB2	2.31	0.66
1:G:1428:GLN:HB2	1:G:1433:LEU:HD21	1.75	0.66
1:G:1528:SER:O	1:G:1531:THR:OG1	2.12	0.66
1:A:231:LEU:HD22	1:A:1259:TRP:HB2	1.78	0.66
1:A:1106:GLN:O	1:A:1107:HIS:ND1	2.29	0.66
1:A:1529:LEU:HA	1:A:1532:ILE:HG12	1.78	0.66
1:C:231:LEU:HD22	1:C:1259:TRP:HB2	1.78	0.66
1:E:393:PRO:HB2	1:E:462:GLN:HG2	1.76	0.66
1:E:567:VAL:HB	1:E:570:LEU:HD21	1.78	0.66
1:G:1529:LEU:HA	1:G:1532:ILE:HG12	1.77	0.66
1:C:634:LEU:HD11	1:C:656:PHE:HB3	1.78	0.66
1:E:348:GLN:HE22	1:E:644:PRO:HD3	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1382:GLY:O	1:E:1386:THR:OG1	2.12	0.66
1:E:1928:LYS:NZ	2:F:76:ASP:OD2	2.28	0.66
1:G:783:LEU:HB3	1:G:808:MET:HE3	1.77	0.66
1:G:786:LEU:HD23	1:G:804:ALA:HB2	1.77	0.66
1:A:244:VAL:HA	1:A:1046:ARG:NH1	2.10	0.66
1:A:567:VAL:HB	1:A:570:LEU:HD21	1.78	0.66
1:A:1021:TYR:OH	1:A:1045:THR:OG1	2.00	0.66
1:A:1043:GLU:HG2	1:A:1046:ARG:HH21	1.61	0.66
1:C:244:VAL:HA	1:C:1046:ARG:NH1	2.10	0.66
2:D:5:LYS:HZ2	2:D:74:GLN:HB3	1.61	0.66
1:E:1529:LEU:HA	1:E:1532:ILE:HG12	1.78	0.66
1:G:348:GLN:HE22	1:G:644:PRO:HD3	1.61	0.66
1:G:1038:LEU:HD23	1:G:1041:ARG:HH22	1.59	0.66
1:G:1146:HIS:NE2	1:G:1165:TYR:OH	2.27	0.66
1:A:634:LEU:HD11	1:A:656:PHE:HB3	1.78	0.66
1:A:1727:HIS:CE1	1:C:1735:THR:HG23	2.30	0.66
1:A:1749:GLY:HA3	1:A:1773:GLU:O	1.95	0.66
1:C:1288:LEU:HD13	1:C:1396:LEU:HD21	1.78	0.66
1:C:1503:LYS:HD2	1:C:1554:LEU:HD11	1.76	0.66
1:C:1909:MET:HE1	1:C:1974:PHE:HD1	1.61	0.66
1:E:634:LEU:HD11	1:E:656:PHE:HB3	1.78	0.66
1:E:1106:GLN:O	1:E:1107:HIS:ND1	2.29	0.66
1:G:1011:GLY:HA2	1:G:1014:PHE:CD2	2.31	0.66
1:A:783:LEU:HB3	1:A:808:MET:HE3	1.77	0.66
1:A:1143:LEU:HA	1:A:1146:HIS:HD2	1.59	0.66
1:A:1909:MET:HE1	1:A:1974:PHE:HD1	1.61	0.66
1:C:45:VAL:HB	1:C:1104:ARG:HH12	1.59	0.66
1:C:938:MET:O	1:C:941:SER:OG	2.14	0.66
1:E:462:GLN:NE2	1:E:466:ARG:HA	2.10	0.66
1:G:1909:MET:HE1	1:G:1974:PHE:HD1	1.61	0.66
2:B:16:LYS:HZ3	2:B:58:THR:H	1.44	0.65
1:C:1420:VAL:O	1:C:1423:SER:OG	2.14	0.65
1:E:938:MET:O	1:E:941:SER:OG	2.14	0.65
1:E:1011:GLY:HA2	1:E:1014:PHE:CD2	2.31	0.65
1:E:1749:GLY:HA3	1:E:1773:GLU:O	1.95	0.65
2:H:60:GLY:HA2	2:H:97:TRP:CH2	2.31	0.65
1:A:568:ARG:HB2	1:A:609:HIS:HA	1.78	0.65
1:A:951:ARG:HD3	1:A:959:ARG:HH21	1.61	0.65
1:A:1528:SER:O	1:A:1531:THR:OG1	2.12	0.65
1:C:1482:SER:HA	1:C:1485:LEU:HD12	1.77	0.65
1:E:231:LEU:HD22	1:E:1259:TRP:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:568:ARG:HB2	1:E:609:HIS:HA	1.78	0.65
1:E:1043:GLU:HG2	1:E:1046:ARG:HH21	1.61	0.65
1:E:1482:SER:HA	1:E:1485:LEU:HD12	1.77	0.65
1:E:1798:VAL:O	1:E:1818:ALA:N	2.27	0.65
1:G:244:VAL:HA	1:G:1046:ARG:NH1	2.10	0.65
2:H:16:LYS:NZ	2:H:58:THR:OG1	2.30	0.65
1:E:45:VAL:HB	1:E:1104:ARG:HH12	1.59	0.65
1:E:556:HIS:HB2	1:E:708:SER:HB3	1.77	0.65
1:G:1043:GLU:HG2	1:G:1046:ARG:HH21	1.61	0.65
1:G:1288:LEU:HD13	1:G:1396:LEU:HD21	1.78	0.65
1:G:1482:SER:HA	1:G:1485:LEU:HD12	1.77	0.65
2:B:60:GLY:HA2	2:B:97:TRP:CH2	2.31	0.65
1:C:683:PRO:HG2	2:F:139:TYR:HD2	1.60	0.65
1:C:1646:SER:O	1:C:1709:ASN:ND2	2.30	0.65
1:C:1756:PHE:O	1:C:1766:GLU:N	2.30	0.65
1:A:1420:VAL:O	1:A:1423:SER:OG	2.14	0.65
1:C:1054:TYR:CZ	1:C:1109:LEU:HB3	2.32	0.65
2:D:16:LYS:NZ	2:D:58:THR:OG1	2.30	0.65
1:E:951:ARG:HD3	1:E:959:ARG:HH21	1.61	0.65
1:G:634:LEU:HD11	1:G:656:PHE:HB3	1.78	0.65
1:A:628:THR:HA	1:A:662:LEU:HD13	1.79	0.65
1:C:73:ARG:NH1	1:C:74:ASP:OD1	2.30	0.65
1:C:1163:GLU:HA	1:C:1166:LEU:HG	1.76	0.65
1:E:1756:PHE:O	1:E:1766:GLU:N	2.30	0.65
1:E:1909:MET:HE1	1:E:1974:PHE:HD1	1.61	0.65
2:F:5:LYS:HZ2	2:F:74:GLN:HB3	1.62	0.65
1:A:1521:SER:OG	1:A:1524:HIS:ND1	2.20	0.65
1:C:393:PRO:HB2	1:C:462:GLN:HG2	1.76	0.65
1:G:231:LEU:HD22	1:G:1259:TRP:HB2	1.78	0.65
1:A:936:GLN:HA	1:A:939:VAL:HG22	1.79	0.65
1:A:975:VAL:O	1:A:979:VAL:HG23	1.97	0.65
1:A:1011:GLY:HA2	1:A:1014:PHE:CD2	2.31	0.65
1:A:1646:SER:O	1:A:1709:ASN:ND2	2.30	0.65
1:C:951:ARG:HD3	1:C:959:ARG:HH21	1.62	0.65
1:E:73:ARG:NH1	1:E:74:ASP:OD1	2.30	0.65
1:E:628:THR:HA	1:E:662:LEU:HD13	1.79	0.65
1:E:951:ARG:HD3	1:E:959:ARG:HE	1.62	0.65
1:E:1121:LEU:HD13	1:E:1175:THR:HG21	1.79	0.65
2:F:16:LYS:NZ	2:F:58:THR:OG1	2.30	0.65
1:G:628:THR:HA	1:G:662:LEU:HD13	1.79	0.65
1:A:1008:VAL:HG22	1:A:1009:ASP:H	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1038:LEU:HD23	1:A:1041:ARG:HH22	1.59	0.65
2:B:16:LYS:NZ	2:B:58:THR:OG1	2.30	0.65
1:C:1011:GLY:HA2	1:C:1014:PHE:CD2	2.31	0.65
1:G:1054:TYR:CZ	1:G:1109:LEU:HB3	2.32	0.65
1:G:1756:PHE:O	1:G:1766:GLU:N	2.30	0.65
1:C:669:THR:HG21	1:C:713:ALA:H	1.62	0.65
1:C:920:SER:O	1:C:924:ARG:N	2.28	0.65
1:E:1982:GLU:OE2	1:E:2011:ARG:NH1	2.30	0.65
1:A:1021:TYR:HA	1:A:1024:VAL:HG12	1.79	0.64
1:C:229:PRO:O	1:C:1262:LYS:NZ	2.26	0.64
1:C:1982:GLU:OE2	1:C:2011:ARG:NH1	2.30	0.64
1:G:73:ARG:NH1	1:G:74:ASP:OD1	2.30	0.64
1:G:1992:ILE:HD13	1:G:2000:HIS:CG	2.33	0.64
1:A:916:TRP:CZ2	1:A:934:PHE:HB3	2.26	0.64
1:A:1001:LEU:O	1:A:1005:LEU:HG	1.97	0.64
1:A:1117:LEU:HD23	1:A:1135:ALA:HB1	1.80	0.64
1:C:1043:GLU:HG2	1:C:1046:ARG:HH21	1.61	0.64
1:C:1607:HIS:HB2	1:C:1616:ALA:HB2	1.79	0.64
1:E:975:VAL:O	1:E:979:VAL:HG23	1.97	0.64
1:E:1021:TYR:HA	1:E:1024:VAL:HG12	1.79	0.64
1:E:1054:TYR:HA	1:E:1057:LEU:HD12	1.79	0.64
1:E:1436:GLY:O	1:E:1439:THR:OG1	2.10	0.64
1:G:936:GLN:HA	1:G:939:VAL:HG22	1.79	0.64
1:G:1021:TYR:HA	1:G:1024:VAL:HG12	1.80	0.64
1:G:1106:GLN:O	1:G:1107:HIS:ND1	2.29	0.64
1:G:1117:LEU:HD23	1:G:1135:ALA:HB1	1.80	0.64
1:A:403:ASN:HA	1:G:407:SER:HA	1.79	0.64
1:A:786:LEU:HD23	1:A:804:ALA:HB2	1.77	0.64
1:C:936:GLN:HA	1:C:939:VAL:HG22	1.79	0.64
1:C:1106:GLN:O	1:C:1107:HIS:ND1	2.29	0.64
1:E:1008:VAL:HG22	1:E:1009:ASP:H	1.62	0.64
1:G:669:THR:HG21	1:G:713:ALA:H	1.62	0.64
1:G:1054:TYR:HA	1:G:1057:LEU:HD12	1.79	0.64
1:A:73:ARG:NH1	1:A:74:ASP:OD1	2.30	0.64
1:A:1982:GLU:OE2	1:A:2011:ARG:NH1	2.30	0.64
1:C:951:ARG:HD3	1:C:959:ARG:HE	1.62	0.64
1:C:1008:VAL:HG22	1:C:1009:ASP:H	1.62	0.64
1:C:1117:LEU:HD11	1:C:1139:VAL:HG21	1.80	0.64
1:E:580:GLU:OE1	1:E:686:SER:N	2.25	0.64
1:E:1992:ILE:HD13	1:E:2000:HIS:CG	2.33	0.64
1:G:568:ARG:HB2	1:G:609:HIS:HA	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1008:VAL:HG22	1:G:1009:ASP:H	1.62	0.64
1:G:1646:SER:O	1:G:1709:ASN:ND2	2.30	0.64
1:A:1054:TYR:CZ	1:A:1109:LEU:HB3	2.32	0.64
1:C:567:VAL:HB	1:C:570:LEU:HD21	1.78	0.64
1:C:1525:LEU:O	1:C:1528:SER:OG	2.15	0.64
1:C:1528:SER:O	1:C:1531:THR:OG1	2.12	0.64
2:D:118:ASP:O	2:D:122:ASP:N	2.31	0.64
1:E:1750:THR:OG1	1:E:1777:THR:OG1	2.04	0.64
1:G:1607:HIS:HB2	1:G:1616:ALA:HB2	1.79	0.64
1:G:1831:THR:HG22	1:G:1835:LYS:NZ	2.11	0.64
2:H:118:ASP:O	2:H:122:ASP:N	2.31	0.64
1:A:1121:LEU:HD13	1:A:1175:THR:HG21	1.79	0.64
1:C:120:TRP:CZ3	1:C:839:ALA:HB2	2.33	0.64
1:G:1028:LEU:HD22	1:G:1041:ARG:NH1	2.13	0.64
1:A:1655:LEU:O	1:A:1658:SER:OG	2.16	0.64
1:C:348:GLN:HE22	1:C:644:PRO:HD3	1.61	0.64
1:E:908:LEU:HD23	1:E:912:LEU:HD23	1.80	0.64
1:E:920:SER:O	1:E:924:ARG:N	2.28	0.64
1:A:976:GLY:O	1:A:980:ILE:HG13	1.98	0.64
1:A:1054:TYR:HA	1:A:1057:LEU:HD12	1.79	0.64
1:A:1288:LEU:HD13	1:A:1396:LEU:HD21	1.78	0.64
1:A:1756:PHE:O	1:A:1766:GLU:N	2.30	0.64
1:C:975:VAL:O	1:C:979:VAL:HG23	1.97	0.64
1:C:1163:GLU:OE1	1:C:1163:GLU:N	2.31	0.64
1:E:320:THR:HB	1:E:593:SER:HA	1.80	0.64
1:E:1054:TYR:CZ	1:E:1109:LEU:HB3	2.32	0.64
1:E:1163:GLU:OE1	1:E:1163:GLU:N	2.31	0.64
1:G:1054:TYR:OH	1:G:1109:LEU:HB3	1.98	0.64
1:A:938:MET:O	1:A:941:SER:OG	2.14	0.64
1:A:951:ARG:HD3	1:A:959:ARG:HE	1.62	0.64
1:A:979:VAL:HG11	1:A:994:ASN:OD1	1.98	0.64
1:A:1117:LEU:HD11	1:A:1139:VAL:HG21	1.80	0.64
1:A:1163:GLU:N	1:A:1163:GLU:OE1	2.31	0.64
1:A:1992:ILE:HD13	1:A:2000:HIS:CG	2.33	0.64
1:C:565:GLY:O	1:C:611:LYS:NZ	2.25	0.64
1:C:628:THR:HA	1:C:662:LEU:HD13	1.79	0.64
1:C:1847:LEU:HB2	1:C:1882:PHE:HB2	1.80	0.64
2:D:60:GLY:HA2	2:D:97:TRP:CH2	2.31	0.64
1:E:56:PHE:HE2	1:E:1010:ARG:NH2	1.96	0.64
1:E:976:GLY:O	1:E:980:ILE:HG13	1.98	0.64
1:E:1001:LEU:O	1:E:1005:LEU:HG	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1420:VAL:O	1:E:1423:SER:OG	2.14	0.64
2:F:118:ASP:O	2:F:122:ASP:N	2.31	0.64
1:G:56:PHE:HE2	1:G:1010:ARG:NH2	1.96	0.64
1:G:976:GLY:O	1:G:980:ILE:HG13	1.98	0.64
1:G:990:ALA:HA	1:G:993:LEU:HD12	1.80	0.64
1:G:1001:LEU:O	1:G:1005:LEU:HG	1.97	0.64
2:H:5:LYS:HZ2	2:H:74:GLN:HB3	1.62	0.64
1:A:1932:MET:HE3	2:B:39:ASN:ND2	2.13	0.64
1:C:976:GLY:O	1:C:980:ILE:HG13	1.98	0.64
1:E:1646:SER:O	1:E:1709:ASN:ND2	2.30	0.64
1:E:1928:LYS:O	1:E:1931:GLN:NE2	2.26	0.64
1:G:951:ARG:HD3	1:G:959:ARG:HH21	1.61	0.64
1:G:975:VAL:O	1:G:979:VAL:HG23	1.97	0.64
1:A:1028:LEU:HD22	1:A:1041:ARG:NH1	2.13	0.63
1:A:1054:TYR:OH	1:A:1109:LEU:HB3	1.98	0.63
1:A:1436:GLY:O	1:A:1439:THR:OG1	2.10	0.63
1:A:1731:GLN:CD	1:C:1731:GLN:HG2	2.22	0.63
1:C:1463:CYS:HA	1:C:1466:LEU:HD12	1.80	0.63
1:C:1530:LYS:O	1:C:1533:LEU:HB2	1.99	0.63
1:E:1463:CYS:HA	1:E:1466:LEU:HD12	1.80	0.63
1:G:951:ARG:HD3	1:G:959:ARG:HE	1.62	0.63
1:G:1121:LEU:HD13	1:G:1175:THR:HG21	1.79	0.63
1:G:1798:VAL:O	1:G:1818:ALA:N	2.27	0.63
1:A:56:PHE:HE2	1:A:1010:ARG:NH2	1.96	0.63
1:A:1589:TYR:H	1:A:1596:ARG:NH1	1.96	0.63
2:B:127:GLU:HA	2:B:130:LYS:HG2	1.81	0.63
1:C:1028:LEU:HD22	1:C:1041:ARG:NH1	2.13	0.63
1:E:231:LEU:HD13	1:E:1259:TRP:HA	1.80	0.63
1:E:1440:GLN:HA	1:E:1443:LEU:HD12	1.80	0.63
1:G:120:TRP:CZ3	1:G:839:ALA:HB2	2.33	0.63
1:G:1420:VAL:O	1:G:1423:SER:OG	2.14	0.63
1:G:1800:GLU:CD	1:G:1817:LYS:HG3	2.23	0.63
1:A:320:THR:HB	1:A:593:SER:HA	1.80	0.63
1:A:632:HIS:CE1	1:A:660:PRO:HA	2.33	0.63
1:A:1727:HIS:CE1	1:C:1731:GLN:HA	2.33	0.63
1:C:979:VAL:HG11	1:C:994:ASN:OD1	1.98	0.63
1:C:1001:LEU:O	1:C:1005:LEU:HG	1.97	0.63
1:E:936:GLN:HA	1:E:939:VAL:HG22	1.79	0.63
1:E:1288:LEU:HD13	1:E:1396:LEU:HD21	1.78	0.63
1:G:567:VAL:HB	1:G:570:LEU:HD21	1.78	0.63
2:H:127:GLU:HA	2:H:130:LYS:HG2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:669:THR:HG21	1:E:713:ALA:H	1.62	0.63
1:G:110:ARG:O	1:G:114:GLU:HG2	1.98	0.63
1:G:979:VAL:HG11	1:G:994:ASN:OD1	1.98	0.63
1:G:1163:GLU:N	1:G:1163:GLU:OE1	2.31	0.63
1:A:110:ARG:O	1:A:114:GLU:HG2	1.98	0.63
1:A:120:TRP:CZ3	1:A:839:ALA:HB2	2.33	0.63
2:B:118:ASP:O	2:B:122:ASP:N	2.31	0.63
1:C:1102:PRO:O	1:C:1105:GLN:NE2	2.32	0.63
1:C:1121:LEU:HD13	1:C:1175:THR:HG21	1.79	0.63
1:E:1102:PRO:O	1:E:1105:GLN:NE2	2.32	0.63
1:E:1607:HIS:HB2	1:E:1616:ALA:HB2	1.79	0.63
1:E:1894:ARG:HH12	1:E:1896:GLU:HB2	1.64	0.63
1:G:1463:CYS:HA	1:G:1466:LEU:HD12	1.80	0.63
1:G:1530:LYS:O	1:G:1533:LEU:HB2	1.98	0.63
1:A:553:VAL:HB	1:A:619:PHE:HB2	1.81	0.63
1:A:1440:GLN:HA	1:A:1443:LEU:HD12	1.80	0.63
1:A:1521:SER:HG	1:A:1524:HIS:HD1	1.28	0.63
1:A:1607:HIS:HB2	1:A:1616:ALA:HB2	1.79	0.63
1:C:56:PHE:HE2	1:C:1010:ARG:NH2	1.96	0.63
1:C:1021:TYR:HA	1:C:1024:VAL:HG12	1.79	0.63
1:E:120:TRP:CZ3	1:E:839:ALA:HB2	2.33	0.63
1:A:348:GLN:HE22	1:A:644:PRO:HD3	1.61	0.63
1:A:673:CYS:HB2	1:A:705:GLY:HA3	1.81	0.63
1:C:320:THR:HB	1:C:593:SER:HA	1.80	0.63
1:C:568:ARG:HB2	1:C:609:HIS:HA	1.78	0.63
1:C:632:HIS:CE1	1:C:660:PRO:HA	2.33	0.63
1:C:962:GLY:HA2	1:C:965:LEU:HD12	1.81	0.63
1:C:1800:GLU:CD	1:C:1817:LYS:HG3	2.23	0.63
1:C:1844:ASN:HA	1:C:1847:LEU:HD11	1.80	0.63
1:C:1992:ILE:HD13	1:C:2000:HIS:CG	2.33	0.63
1:E:979:VAL:HG11	1:E:994:ASN:OD1	1.98	0.63
1:E:1525:LEU:O	1:E:1528:SER:OG	2.15	0.63
1:E:1528:SER:O	1:E:1531:THR:OG1	2.12	0.63
1:E:1800:GLU:CD	1:E:1817:LYS:HG3	2.23	0.63
1:G:231:LEU:HD13	1:G:1259:TRP:HA	1.80	0.63
1:G:320:THR:HB	1:G:593:SER:HA	1.80	0.63
1:A:669:THR:HG21	1:A:713:ALA:H	1.62	0.63
1:C:125:ARG:NH1	1:C:1006:SER:OG	2.31	0.63
1:C:1054:TYR:HA	1:C:1057:LEU:HD12	1.79	0.63
1:C:1589:TYR:H	1:C:1596:ARG:NH1	1.97	0.63
1:G:632:HIS:CE1	1:G:660:PRO:HA	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:908:LEU:HD23	1:G:912:LEU:HD23	1.80	0.63
1:G:1474:ILE:HG22	1:G:1476:THR:HG22	1.81	0.63
1:G:1844:ASN:HA	1:G:1847:LEU:HD11	1.80	0.63
1:G:1982:GLU:OE2	1:G:2011:ARG:NH1	2.30	0.63
1:A:1382:GLY:O	1:A:1386:THR:OG1	2.12	0.63
1:A:1463:CYS:HA	1:A:1466:LEU:HD12	1.80	0.63
1:C:86:LEU:HB2	1:C:122:ILE:HB	1.81	0.63
1:G:673:CYS:HB2	1:G:705:GLY:HA3	1.81	0.63
1:G:1779:LEU:HD13	2:H:26:ASN:OD1	1.99	0.63
1:A:231:LEU:HD13	1:A:1259:TRP:HA	1.80	0.62
1:A:305:MET:HG3	1:A:306:LYS:HD3	1.81	0.62
1:E:1054:TYR:OH	1:E:1109:LEU:HB3	1.98	0.62
1:E:1655:LEU:O	1:E:1658:SER:OG	2.16	0.62
1:E:1999:TYR:HD2	2:F:70:LEU:HB3	1.62	0.62
2:F:60:GLY:HA2	2:F:97:TRP:CH2	2.31	0.62
1:G:229:PRO:O	1:G:1262:LYS:NZ	2.26	0.62
1:G:305:MET:HG3	1:G:306:LYS:HD3	1.81	0.62
1:G:1440:GLN:HA	1:G:1443:LEU:HD12	1.80	0.62
1:A:1800:GLU:CD	1:A:1817:LYS:HG3	2.23	0.62
1:C:990:ALA:HA	1:C:993:LEU:HD12	1.80	0.62
1:C:1054:TYR:OH	1:C:1109:LEU:HB3	1.98	0.62
1:C:1831:THR:HG22	1:C:1835:LYS:NZ	2.12	0.62
1:E:1117:LEU:HD11	1:E:1139:VAL:HG21	1.80	0.62
1:G:1767:GLN:HG2	1:G:1890:ARG:HH12	1.64	0.62
1:A:908:LEU:HD23	1:A:912:LEU:HD23	1.80	0.62
1:A:1649:ASN:OD1	1:A:1650:ILE:HD12	2.00	0.62
1:C:110:ARG:O	1:C:114:GLU:HG2	1.98	0.62
1:C:1440:GLN:HA	1:C:1443:LEU:HD12	1.80	0.62
1:E:585:ALA:HB3	1:E:600:ARG:HH11	1.64	0.62
1:G:1776:ILE:CD1	2:H:45:MET:HG2	2.29	0.62
1:A:1847:LEU:HB2	1:A:1882:PHE:HB2	1.80	0.62
1:C:908:LEU:HD23	1:C:912:LEU:HD23	1.80	0.62
2:D:127:GLU:HA	2:D:130:LYS:HG2	1.81	0.62
1:E:990:ALA:HA	1:E:993:LEU:HD12	1.80	0.62
1:E:1143:LEU:HA	1:E:1146:HIS:CD2	2.35	0.62
1:E:1530:LYS:O	1:E:1533:LEU:HB2	1.99	0.62
1:A:990:ALA:HA	1:A:993:LEU:HD12	1.80	0.62
1:C:1001:LEU:O	1:C:1004:LEU:HB3	1.99	0.62
1:C:1894:ARG:HH12	1:C:1896:GLU:HB2	1.64	0.62
1:E:1001:LEU:O	1:E:1004:LEU:HB3	1.99	0.62
1:E:1521:SER:OG	1:E:1524:HIS:ND1	2.20	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1844:ASN:HA	1:E:1847:LEU:HD11	1.81	0.62
1:A:1530:LYS:O	1:A:1533:LEU:HB2	1.99	0.62
1:C:553:VAL:HB	1:C:619:PHE:HB2	1.81	0.62
1:C:585:ALA:HB3	1:C:600:ARG:HH11	1.64	0.62
1:C:1800:GLU:HB3	1:C:1817:LYS:HE2	1.82	0.62
1:E:1028:LEU:HD22	1:E:1041:ARG:NH1	2.13	0.62
1:E:1932:MET:HG3	2:F:39:ASN:HB3	1.82	0.62
1:G:1403:VAL:HA	1:G:1409:ARG:HD3	1.82	0.62
1:C:305:MET:HG3	1:C:306:LYS:HD3	1.81	0.62
1:C:1143:LEU:HA	1:C:1146:HIS:CD2	2.35	0.62
1:E:110:ARG:O	1:E:114:GLU:HG2	1.98	0.62
1:E:125:ARG:NH1	1:E:1006:SER:OG	2.31	0.62
1:E:553:VAL:HB	1:E:619:PHE:HB2	1.81	0.62
1:E:632:HIS:CE1	1:E:660:PRO:HA	2.34	0.62
1:E:1847:LEU:HB2	1:E:1882:PHE:HB2	1.80	0.62
1:G:962:GLY:HA2	1:G:965:LEU:HD12	1.81	0.62
1:G:1001:LEU:O	1:G:1004:LEU:HB3	1.99	0.62
1:G:1589:TYR:H	1:G:1596:ARG:NH1	1.96	0.62
1:G:1597:LEU:O	1:G:1601:GLN:HG3	2.00	0.62
1:A:1403:VAL:HA	1:A:1409:ARG:HD3	1.82	0.62
1:A:1597:LEU:O	1:A:1601:GLN:HG3	2.00	0.62
1:C:231:LEU:HD13	1:C:1259:TRP:HA	1.80	0.62
1:C:1767:GLN:HG2	1:C:1890:ARG:HH12	1.64	0.62
2:D:94:ARG:NH2	2:D:145:MET:O	2.33	0.62
1:E:1403:VAL:HA	1:E:1409:ARG:HD3	1.82	0.62
2:F:127:GLU:HA	2:F:130:LYS:HG2	1.81	0.62
1:G:585:ALA:HB3	1:G:600:ARG:HH11	1.64	0.62
1:G:1117:LEU:HD11	1:G:1139:VAL:HG21	1.80	0.62
1:A:248:SER:OG	1:A:826:ARG:NH2	2.33	0.62
1:C:673:CYS:HB2	1:C:705:GLY:HA3	1.80	0.62
2:D:8:VAL:O	2:D:58:THR:OG1	2.18	0.62
1:E:86:LEU:HB2	1:E:122:ILE:HB	1.81	0.62
1:E:248:SER:OG	1:E:826:ARG:NH2	2.33	0.62
1:G:466:ARG:HD2	1:G:607:VAL:HG22	1.81	0.62
1:G:553:VAL:HB	1:G:619:PHE:HB2	1.81	0.62
1:G:912:LEU:HD11	1:G:938:MET:SD	2.40	0.62
1:G:1099:LEU:HG	1:G:1104:ARG:HH21	1.65	0.62
1:G:1382:GLY:O	1:G:1386:THR:OG1	2.12	0.62
1:G:1649:ASN:OD1	1:G:1650:ILE:HD12	2.00	0.62
1:A:1767:GLN:HG2	1:A:1890:ARG:HH12	1.64	0.62
1:A:1894:ARG:HH12	1:A:1896:GLU:HB2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1954:LEU:O	1:A:1971:ARG:NH2	2.33	0.62
1:E:789:ARG:NH2	1:E:903:LEU:O	2.33	0.62
1:E:1589:TYR:H	1:E:1596:ARG:NH1	1.96	0.62
1:C:688:LEU:HD13	1:C:692:VAL:HB	1.82	0.61
1:C:965:LEU:HB3	1:C:1012:PHE:CE2	2.35	0.61
1:C:1117:LEU:HD23	1:C:1135:ALA:HB1	1.79	0.61
1:C:1954:LEU:O	1:C:1971:ARG:NH2	2.33	0.61
1:E:1117:LEU:HD23	1:E:1135:ALA:HB1	1.80	0.61
1:E:1474:ILE:HG22	1:E:1476:THR:HG22	1.81	0.61
1:E:1954:LEU:O	1:E:1971:ARG:NH2	2.33	0.61
2:F:8:VAL:O	2:F:58:THR:OG1	2.18	0.61
2:F:94:ARG:NH2	2:F:145:MET:O	2.33	0.61
1:G:938:MET:O	1:G:941:SER:OG	2.14	0.61
1:G:1894:ARG:HH12	1:G:1896:GLU:HB2	1.64	0.61
1:A:1474:ILE:HG22	1:A:1476:THR:HG22	1.81	0.61
1:C:1649:ASN:OD1	1:C:1650:ILE:HD12	2.00	0.61
1:E:1649:ASN:OD1	1:E:1650:ILE:HD12	2.00	0.61
1:G:1259:TRP:CD1	1:G:1263:ASN:HD21	2.19	0.61
1:G:1800:GLU:HB3	1:G:1817:LYS:HE2	1.82	0.61
1:G:1828:TYR:O	1:G:1849:THR:OG1	2.18	0.61
1:A:125:ARG:NH1	1:A:1006:SER:OG	2.31	0.61
1:A:393:PRO:HG3	1:A:466:ARG:HG2	1.82	0.61
1:A:789:ARG:HH12	1:A:844:GLY:HA3	1.66	0.61
1:A:789:ARG:NH2	1:A:903:LEU:O	2.33	0.61
1:A:1102:PRO:O	1:A:1105:GLN:NE2	2.32	0.61
1:A:1476:THR:O	1:A:1480:HIS:ND1	2.26	0.61
1:A:1522:GLU:H	1:A:1522:GLU:CD	2.09	0.61
2:B:94:ARG:NH2	2:B:145:MET:O	2.33	0.61
1:C:58:ASP:O	1:C:62:SER:HB3	2.01	0.61
1:G:248:SER:OG	1:G:826:ARG:NH2	2.33	0.61
1:G:789:ARG:HH12	1:G:844:GLY:HA3	1.66	0.61
1:G:1522:GLU:H	1:G:1522:GLU:CD	2.09	0.61
1:A:86:LEU:HB2	1:A:122:ILE:HB	1.81	0.61
1:A:585:ALA:HB3	1:A:600:ARG:HH11	1.64	0.61
2:B:8:VAL:O	2:B:58:THR:OG1	2.18	0.61
1:C:466:ARG:HD2	1:C:607:VAL:HG22	1.81	0.61
1:C:789:ARG:NH2	1:C:903:LEU:O	2.33	0.61
1:C:1415:ALA:O	1:C:1418:LYS:HG2	2.00	0.61
1:C:1828:TYR:O	1:C:1849:THR:OG1	2.18	0.61
1:C:1928:LYS:O	1:C:1931:GLN:NE2	2.26	0.61
1:E:305:MET:HG3	1:E:306:LYS:HD3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:461:LYS:HD3	1:E:490:ARG:HD2	1.83	0.61
1:E:1772:LYS:NZ	1:E:1883:PRO:HA	2.16	0.61
1:G:1704:ASN:O	1:G:1708:LYS:HG3	2.00	0.61
1:G:1847:LEU:HB2	1:G:1882:PHE:HB2	1.80	0.61
2:H:120:ARG:HA	2:H:126:ILE:HD11	1.83	0.61
1:A:962:GLY:HA2	1:A:965:LEU:HD12	1.81	0.61
2:B:120:ARG:HA	2:B:126:ILE:HD11	1.83	0.61
1:C:393:PRO:HG3	1:C:466:ARG:HG2	1.82	0.61
1:C:461:LYS:HD3	1:C:490:ARG:HD2	1.83	0.61
2:D:120:ARG:HA	2:D:126:ILE:HD11	1.83	0.61
1:E:58:ASP:O	1:E:62:SER:HB3	2.01	0.61
1:E:548:ARG:N	1:E:716:SER:OG	2.31	0.61
1:E:673:CYS:HB2	1:E:705:GLY:HA3	1.80	0.61
1:E:912:LEU:HD11	1:E:938:MET:SD	2.40	0.61
1:E:1037:LEU:HG	1:E:1041:ARG:NH1	2.16	0.61
1:E:1800:GLU:HB3	1:E:1817:LYS:HE2	1.82	0.61
1:E:1828:TYR:O	1:E:1849:THR:OG1	2.18	0.61
1:G:1954:LEU:O	1:G:1971:ARG:NH2	2.33	0.61
1:A:1001:LEU:O	1:A:1004:LEU:HB3	2.00	0.61
1:A:1749:GLY:CA	1:A:1773:GLU:O	2.49	0.61
1:A:1844:ASN:HA	1:A:1847:LEU:HD11	1.80	0.61
1:C:248:SER:OG	1:C:826:ARG:NH2	2.33	0.61
1:C:912:LEU:HD11	1:C:938:MET:SD	2.40	0.61
1:C:1259:TRP:CD1	1:C:1263:ASN:HD21	2.19	0.61
1:E:962:GLY:HA2	1:E:965:LEU:HD12	1.81	0.61
1:E:1704:ASN:O	1:E:1708:LYS:HG3	2.00	0.61
1:E:1749:GLY:CA	1:E:1773:GLU:O	2.49	0.61
1:E:1838:VAL:O	1:E:1843:ARG:NH2	2.34	0.61
1:G:1102:PRO:O	1:G:1105:GLN:NE2	2.32	0.61
1:A:142:GLN:O	1:A:146:GLN:N	2.34	0.61
1:A:544:HIS:HB2	1:A:777:HIS:CE1	2.36	0.61
1:C:544:HIS:HB2	1:C:777:HIS:CE1	2.36	0.61
1:C:1037:LEU:HG	1:C:1041:ARG:NH1	2.16	0.61
1:C:1099:LEU:HG	1:C:1104:ARG:HH21	1.65	0.61
1:E:789:ARG:HH12	1:E:844:GLY:HA3	1.66	0.61
1:G:393:PRO:HG3	1:G:466:ARG:HG2	1.82	0.61
1:G:1258:LEU:HD21	1:G:1291:CYS:SG	2.41	0.61
1:A:912:LEU:HD11	1:A:938:MET:SD	2.40	0.61
1:C:580:GLU:OE1	1:C:686:SER:N	2.25	0.61
1:C:1597:LEU:O	1:C:1601:GLN:HG3	2.00	0.61
1:E:393:PRO:HG3	1:E:466:ARG:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:979:VAL:HG22	1:E:993:LEU:HD13	1.83	0.61
1:E:1597:LEU:O	1:E:1601:GLN:HG3	2.00	0.61
1:G:1415:ALA:O	1:G:1418:LYS:HG2	2.01	0.61
1:G:1772:LYS:NZ	1:G:1883:PRO:HA	2.16	0.61
1:A:1258:LEU:HD21	1:A:1291:CYS:SG	2.41	0.61
1:A:1772:LYS:NZ	1:A:1883:PRO:HA	2.16	0.61
1:C:1403:VAL:HA	1:C:1409:ARG:HD3	1.82	0.61
1:C:1502:VAL:HA	1:C:1505:GLN:NE2	2.16	0.61
1:G:789:ARG:NH2	1:G:903:LEU:O	2.33	0.61
1:G:1143:LEU:HA	1:G:1146:HIS:CD2	2.35	0.61
2:H:94:ARG:NH2	2:H:145:MET:O	2.33	0.61
1:C:142:GLN:O	1:C:146:GLN:N	2.34	0.61
1:C:1474:ILE:HG22	1:C:1476:THR:HG22	1.81	0.61
1:E:466:ARG:HD2	1:E:607:VAL:HG22	1.81	0.61
1:G:86:LEU:HB2	1:G:122:ILE:HB	1.81	0.61
1:G:1502:VAL:HA	1:G:1505:GLN:NE2	2.16	0.61
2:H:8:VAL:O	2:H:58:THR:OG1	2.18	0.61
1:A:1143:LEU:HA	1:A:1146:HIS:CD2	2.35	0.60
1:A:1704:ASN:O	1:A:1708:LYS:HG3	2.00	0.60
1:C:979:VAL:HG22	1:C:993:LEU:HD13	1.83	0.60
1:E:688:LEU:HD13	1:E:692:VAL:HB	1.82	0.60
1:G:677:SER:OG	1:G:697:MET:SD	2.59	0.60
1:A:1415:ALA:O	1:A:1418:LYS:HG2	2.00	0.60
1:A:1831:THR:HG22	1:A:1835:LYS:NZ	2.11	0.60
1:C:1618:GLN:O	1:C:1622:HIS:ND1	2.34	0.60
1:E:142:GLN:O	1:E:146:GLN:N	2.34	0.60
1:E:229:PRO:O	1:E:1262:LYS:NZ	2.26	0.60
1:E:1128:ALA:O	1:E:1132:HIS:ND1	2.34	0.60
2:F:120:ARG:HA	2:F:126:ILE:HD11	1.83	0.60
1:G:1028:LEU:HD13	1:G:1037:LEU:HD23	1.83	0.60
1:A:688:LEU:HD13	1:A:692:VAL:HB	1.82	0.60
1:A:965:LEU:HB3	1:A:1012:PHE:CE2	2.36	0.60
1:A:1028:LEU:HD13	1:A:1037:LEU:HD23	1.83	0.60
1:A:1459:CYS:O	1:A:1462:LEU:HB3	2.01	0.60
1:A:1567:LYS:O	1:A:1570:GLU:HG3	2.02	0.60
1:E:1502:VAL:HA	1:E:1505:GLN:NE2	2.16	0.60
1:G:58:ASP:O	1:G:62:SER:HB3	2.01	0.60
1:G:965:LEU:HB3	1:G:1012:PHE:CE2	2.36	0.60
1:G:1838:VAL:O	1:G:1843:ARG:NH2	2.34	0.60
1:A:979:VAL:HG22	1:A:993:LEU:HD13	1.83	0.60
1:A:1099:LEU:HG	1:A:1104:ARG:HH21	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1128:ALA:O	1:A:1132:HIS:ND1	2.34	0.60
1:A:1259:TRP:CD1	1:A:1263:ASN:HD21	2.19	0.60
1:E:1410:GLU:HG2	1:E:1411:SER:H	1.66	0.60
1:E:1459:CYS:O	1:E:1462:LEU:HB3	2.01	0.60
1:E:1831:THR:HG22	1:E:1835:LYS:NZ	2.11	0.60
1:G:544:HIS:HB2	1:G:777:HIS:CE1	2.36	0.60
1:G:1945:GLY:HA2	2:H:37:PHE:CE1	2.35	0.60
1:A:152:GLN:OE1	1:A:1383:ASN:ND2	2.35	0.60
1:A:466:ARG:HD2	1:A:607:VAL:HG22	1.81	0.60
1:A:902:ILE:O	1:A:906:LYS:HB2	2.02	0.60
1:A:1037:LEU:HG	1:A:1041:ARG:NH1	2.16	0.60
1:A:1618:GLN:O	1:A:1622:HIS:ND1	2.34	0.60
1:A:1838:VAL:O	1:A:1843:ARG:NH2	2.34	0.60
1:A:1872:ARG:HA	1:A:1897:THR:O	2.02	0.60
1:A:1937:SER:HA	2:B:37:PHE:CE2	2.36	0.60
1:C:1749:GLY:CA	1:C:1773:GLU:O	2.49	0.60
1:C:1772:LYS:NZ	1:C:1883:PRO:HA	2.16	0.60
1:E:1028:LEU:HD13	1:E:1037:LEU:HD23	1.83	0.60
1:E:1770:VAL:O	1:E:1888:ARG:HA	2.01	0.60
1:G:1872:ARG:HA	1:G:1897:THR:O	2.02	0.60
1:A:1410:GLU:HG2	1:A:1411:SER:H	1.66	0.60
1:A:1488:LEU:HA	1:A:1491:GLN:HE21	1.67	0.60
1:A:1618:GLN:HE22	1:A:1883:PRO:C	2.10	0.60
1:C:152:GLN:OE1	1:C:1383:ASN:ND2	2.35	0.60
1:C:1704:ASN:O	1:C:1708:LYS:HG3	2.00	0.60
1:C:1872:ARG:HA	1:C:1897:THR:O	2.02	0.60
1:E:544:HIS:HB2	1:E:777:HIS:CE1	2.36	0.60
1:E:1767:GLN:HG2	1:E:1890:ARG:HH12	1.64	0.60
1:G:142:GLN:O	1:G:146:GLN:N	2.34	0.60
1:G:461:LYS:HD3	1:G:490:ARG:HD2	1.83	0.60
1:G:1749:GLY:CA	1:G:1773:GLU:O	2.49	0.60
1:A:461:LYS:HD3	1:A:490:ARG:HD2	1.83	0.60
1:C:471:ASP:OD1	1:C:472:LEU:N	2.34	0.60
1:C:902:ILE:O	1:C:906:LYS:HB2	2.02	0.60
1:C:1258:LEU:HD21	1:C:1291:CYS:SG	2.41	0.60
1:C:1838:VAL:O	1:C:1843:ARG:NH2	2.34	0.60
1:E:965:LEU:HB3	1:E:1012:PHE:CE2	2.35	0.60
1:E:1618:GLN:O	1:E:1622:HIS:ND1	2.34	0.60
1:G:56:PHE:CD2	1:G:1010:ARG:HB2	2.36	0.60
1:G:947:LEU:O	1:G:950:GLN:NE2	2.35	0.60
1:G:1618:GLN:O	1:G:1622:HIS:ND1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:TRP:CH2	1:A:253:PRO:HD2	2.37	0.60
1:A:471:ASP:OD1	1:A:472:LEU:N	2.34	0.60
1:A:1828:TYR:O	1:A:1849:THR:OG1	2.18	0.60
1:C:56:PHE:CD2	1:C:1010:ARG:HB2	2.36	0.60
1:C:120:TRP:CH2	1:C:253:PRO:HD2	2.37	0.60
1:C:408:ALA:HB1	1:C:450:ARG:HB2	1.84	0.60
1:E:471:ASP:OD1	1:E:472:LEU:N	2.34	0.60
1:E:1259:TRP:CD1	1:E:1263:ASN:HD21	2.19	0.60
1:G:125:ARG:NH1	1:G:1006:SER:OG	2.31	0.60
1:G:138:THR:H	1:G:141:THR:HG22	1.67	0.60
1:G:688:LEU:HD13	1:G:692:VAL:HB	1.82	0.60
1:G:1410:GLU:HG2	1:G:1411:SER:H	1.66	0.60
1:G:1459:CYS:O	1:G:1462:LEU:HB3	2.01	0.60
1:A:543:PRO:HA	1:A:774:ALA:HA	1.84	0.60
1:A:1800:GLU:HB3	1:A:1817:LYS:HE2	1.82	0.60
1:C:947:LEU:O	1:C:950:GLN:NE2	2.35	0.60
1:C:1424:LEU:HD21	1:C:1436:GLY:HA3	1.84	0.60
1:E:158:ALA:HB1	1:E:1473:ARG:HB2	1.84	0.60
1:E:1099:LEU:HG	1:E:1104:ARG:HH21	1.65	0.60
1:E:1298:LYS:HB2	1:E:1303:PHE:CE1	2.37	0.60
1:G:120:TRP:CH2	1:G:253:PRO:HD2	2.37	0.60
1:G:1023:GLN:O	1:G:1026:THR:OG1	2.19	0.60
1:G:1128:ALA:O	1:G:1132:HIS:ND1	2.34	0.60
1:G:1488:LEU:HA	1:G:1491:GLN:HE21	1.67	0.60
1:C:1521:SER:OG	1:C:1524:HIS:ND1	2.20	0.60
1:C:1770:VAL:O	1:C:1888:ARG:HA	2.01	0.60
1:C:1786:LEU:HD13	1:C:1820:ILE:HD13	1.84	0.60
1:E:565:GLY:O	1:E:611:LYS:NZ	2.25	0.60
1:E:1424:LEU:HD21	1:E:1436:GLY:HA3	1.84	0.60
1:E:1872:ARG:HA	1:E:1897:THR:O	2.02	0.60
1:G:920:SER:O	1:G:924:ARG:N	2.28	0.60
1:G:1037:LEU:HG	1:G:1041:ARG:NH1	2.16	0.60
1:A:58:ASP:O	1:A:62:SER:HB3	2.01	0.59
1:A:1770:VAL:O	1:A:1888:ARG:HA	2.01	0.59
1:C:548:ARG:N	1:C:716:SER:OG	2.31	0.59
1:G:1655:LEU:O	1:G:1658:SER:OG	2.16	0.59
1:G:1803:LYS:HZ1	2:H:160:LEU:HG	1.67	0.59
1:A:56:PHE:CD2	1:A:1010:ARG:HB2	2.36	0.59
1:A:909:HIS:O	1:A:912:LEU:HG	2.03	0.59
1:A:1803:LYS:HZ3	2:B:28:PHE:HZ	1.50	0.59
1:C:789:ARG:HH12	1:C:844:GLY:HA3	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1128:ALA:O	1:C:1132:HIS:ND1	2.34	0.59
1:E:1258:LEU:HD21	1:E:1291:CYS:SG	2.41	0.59
1:E:1415:ALA:O	1:E:1418:LYS:HG2	2.01	0.59
1:E:1567:LYS:O	1:E:1570:GLU:HG3	2.02	0.59
1:E:1825:VAL:HB	1:E:1850:PHE:HB3	1.84	0.59
1:G:152:GLN:OE1	1:G:1383:ASN:ND2	2.35	0.59
1:A:1298:LYS:HB2	1:A:1303:PHE:CE1	2.37	0.59
1:A:1798:VAL:O	1:A:1818:ALA:N	2.27	0.59
1:C:677:SER:OG	1:C:697:MET:SD	2.59	0.59
1:C:1028:LEU:HD13	1:C:1037:LEU:HD23	1.83	0.59
1:E:947:LEU:O	1:E:950:GLN:NE2	2.35	0.59
1:E:996:SER:HA	1:E:999:PHE:HD2	1.67	0.59
1:E:1488:LEU:HA	1:E:1491:GLN:HE21	1.67	0.59
1:G:454:LEU:HB3	1:G:456:VAL:HG13	1.85	0.59
1:G:471:ASP:OD1	1:G:472:LEU:N	2.34	0.59
1:G:1770:VAL:O	1:G:1888:ARG:HA	2.01	0.59
1:A:947:LEU:O	1:A:950:GLN:NE2	2.35	0.59
1:C:1459:CYS:O	1:C:1462:LEU:HB3	2.01	0.59
1:C:1488:LEU:HA	1:C:1491:GLN:HE21	1.67	0.59
1:E:152:GLN:OE1	1:E:1383:ASN:ND2	2.35	0.59
1:E:1562:LEU:O	1:E:1565:THR:OG1	2.19	0.59
2:F:9:VAL:HG22	2:F:97:TRP:CZ3	2.37	0.59
1:G:979:VAL:HG22	1:G:993:LEU:HD13	1.83	0.59
1:G:996:SER:HA	1:G:999:PHE:HD2	1.67	0.59
1:G:1786:LEU:HD13	1:G:1820:ILE:HD13	1.84	0.59
2:H:9:VAL:HG22	2:H:97:TRP:CZ3	2.37	0.59
1:A:1928:LYS:O	1:A:1931:GLN:NE2	2.26	0.59
1:C:909:HIS:O	1:C:912:LEU:HG	2.02	0.59
1:C:1727:HIS:O	1:C:1731:GLN:NE2	2.36	0.59
1:E:1522:GLU:H	1:E:1522:GLU:CD	2.09	0.59
1:E:1618:GLN:HE22	1:E:1883:PRO:C	2.10	0.59
1:G:902:ILE:O	1:G:906:LYS:HB2	2.02	0.59
1:G:1825:VAL:HB	1:G:1850:PHE:HB3	1.84	0.59
1:A:56:PHE:HE2	1:A:1010:ARG:CZ	2.16	0.59
1:A:1428:GLN:HE21	1:A:1433:LEU:HD21	1.68	0.59
1:A:1502:VAL:HA	1:A:1505:GLN:NE2	2.16	0.59
1:C:543:PRO:HA	1:C:774:ALA:HA	1.84	0.59
1:C:1272:TRP:NE1	1:C:1276:LEU:HD11	2.18	0.59
1:C:1298:LYS:HB2	1:C:1303:PHE:CE1	2.37	0.59
1:E:56:PHE:CD2	1:E:1010:ARG:HB2	2.36	0.59
1:E:454:LEU:HB3	1:E:456:VAL:HG13	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:902:ILE:O	1:E:906:LYS:HB2	2.02	0.59
1:E:909:HIS:O	1:E:912:LEU:HG	2.03	0.59
1:G:1424:LEU:HD21	1:G:1436:GLY:HA3	1.84	0.59
1:G:1565:THR:O	1:G:1569:LYS:HG2	2.03	0.59
1:G:1776:ILE:HD12	2:H:45:MET:HG2	1.83	0.59
1:A:138:THR:H	1:A:141:THR:HG22	1.67	0.59
1:A:1272:TRP:O	1:A:1276:LEU:HG	2.03	0.59
1:C:775:PHE:HA	1:C:777:HIS:NE2	2.18	0.59
1:C:996:SER:HA	1:C:999:PHE:HD2	1.67	0.59
1:E:56:PHE:HE2	1:E:1010:ARG:CZ	2.16	0.59
1:E:120:TRP:CH2	1:E:253:PRO:HD2	2.37	0.59
1:G:1146:HIS:HA	1:G:1149:ASP:OD2	2.03	0.59
1:G:1298:LYS:HB2	1:G:1303:PHE:CE1	2.37	0.59
1:G:1567:LYS:O	1:G:1570:GLU:HG3	2.02	0.59
1:A:454:LEU:HB3	1:A:456:VAL:HG13	1.85	0.59
1:A:938:MET:HE1	1:A:942:MET:HE3	1.85	0.59
1:A:1424:LEU:HD21	1:A:1436:GLY:HA3	1.84	0.59
2:B:9:VAL:HG22	2:B:97:TRP:CZ3	2.37	0.59
1:C:138:THR:H	1:C:141:THR:HG22	1.67	0.59
1:C:283:LEU:HD12	1:C:338:LEU:HB2	1.85	0.59
1:C:1798:VAL:O	1:C:1818:ALA:N	2.27	0.59
1:C:1825:VAL:HB	1:C:1850:PHE:HB3	1.84	0.59
2:D:9:VAL:HG22	2:D:97:TRP:CZ3	2.37	0.59
1:G:1272:TRP:NE1	1:G:1276:LEU:HD11	2.18	0.59
1:A:1727:HIS:O	1:A:1731:GLN:NE2	2.36	0.59
1:E:408:ALA:HB1	1:E:450:ARG:HB2	1.84	0.59
1:G:76:VAL:HG23	1:G:1060:PRO:HD2	1.85	0.59
1:G:231:LEU:HD12	1:G:1262:LYS:HD2	1.85	0.59
1:G:283:LEU:HD12	1:G:338:LEU:HB2	1.85	0.59
1:A:996:SER:HA	1:A:999:PHE:HD2	1.67	0.59
1:C:158:ALA:HB1	1:C:1473:ARG:HB2	1.84	0.59
1:C:1382:GLY:O	1:C:1386:THR:OG1	2.12	0.59
1:C:1567:LYS:O	1:C:1570:GLU:HG3	2.02	0.59
1:E:138:THR:H	1:E:141:THR:HG22	1.67	0.59
1:E:1565:THR:O	1:E:1569:LYS:HG2	2.03	0.59
1:G:1572:GLN:HG3	1:G:1573:GLU:OE1	2.03	0.59
1:G:1727:HIS:O	1:G:1731:GLN:NE2	2.36	0.59
1:A:231:LEU:HD12	1:A:1262:LYS:HD2	1.85	0.58
1:A:509:PHE:HE2	1:A:523:ASP:HB2	1.69	0.58
1:A:1146:HIS:HA	1:A:1149:ASP:OD2	2.03	0.58
1:A:1464:LEU:HG	1:A:1513:LEU:HD11	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1525:LEU:O	1:A:1528:SER:OG	2.15	0.58
1:A:1572:GLN:HG3	1:A:1573:GLU:OE1	2.03	0.58
1:A:1786:LEU:HD13	1:A:1820:ILE:HD13	1.84	0.58
1:C:231:LEU:HD12	1:C:1262:LYS:HD2	1.84	0.58
1:C:1410:GLU:HG2	1:C:1411:SER:H	1.66	0.58
1:E:280:ILE:HA	1:E:296:PHE:O	2.03	0.58
1:E:775:PHE:HA	1:E:777:HIS:NE2	2.18	0.58
1:E:1698:GLY:O	1:E:1746:ARG:NH2	2.36	0.58
1:E:1727:HIS:O	1:E:1731:GLN:NE2	2.36	0.58
1:G:223:ARG:NH2	1:G:224:ARG:HH12	2.01	0.58
1:G:280:ILE:HA	1:G:296:PHE:O	2.03	0.58
1:G:283:LEU:H	1:G:293:SER:HB3	1.68	0.58
1:G:977:LEU:HA	1:G:980:ILE:HD12	1.85	0.58
1:A:920:SER:O	1:A:924:ARG:N	2.28	0.58
2:B:105:CYS:SG	2:B:108:THR:HB	2.44	0.58
1:C:454:LEU:HB3	1:C:456:VAL:HG13	1.85	0.58
1:C:1146:HIS:HA	1:C:1149:ASP:OD2	2.03	0.58
1:C:1272:TRP:O	1:C:1276:LEU:HG	2.03	0.58
1:C:1522:GLU:H	1:C:1522:GLU:CD	2.08	0.58
1:G:543:PRO:HA	1:G:774:ALA:HA	1.84	0.58
1:G:938:MET:HE1	1:G:942:MET:HE3	1.85	0.58
1:G:1476:THR:O	1:G:1480:HIS:ND1	2.26	0.58
1:G:1525:LEU:O	1:G:1528:SER:OG	2.15	0.58
1:G:1534:THR:HA	1:G:1537:GLU:OE2	2.03	0.58
1:G:1554:LEU:O	1:G:1558:LEU:HG	2.03	0.58
1:C:226:HIS:ND1	1:C:226:HIS:O	2.36	0.58
1:C:1534:THR:HA	1:C:1537:GLU:OE2	2.04	0.58
1:C:1565:THR:O	1:C:1569:LYS:HG2	2.03	0.58
1:E:283:LEU:H	1:E:293:SER:HB3	1.68	0.58
1:E:1146:HIS:HA	1:E:1149:ASP:OD2	2.03	0.58
1:E:1992:ILE:HD12	1:E:1997:LYS:HD3	1.86	0.58
1:G:909:HIS:O	1:G:912:LEU:HG	2.02	0.58
1:A:280:ILE:HA	1:A:296:PHE:O	2.03	0.58
1:E:231:LEU:HD12	1:E:1262:LYS:HD2	1.84	0.58
1:E:1534:THR:HA	1:E:1537:GLU:OE2	2.04	0.58
1:E:1572:GLN:HG3	1:E:1573:GLU:OE1	2.03	0.58
1:G:774:ALA:O	1:G:777:HIS:NE2	2.36	0.58
1:G:775:PHE:HA	1:G:777:HIS:NE2	2.18	0.58
1:G:965:LEU:HA	1:G:968:ILE:HD12	1.86	0.58
1:G:1045:THR:O	1:G:1048:LEU:HG	2.03	0.58
1:G:1662:ASP:HA	1:G:1665:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:TYR:HB3	1:A:130:LEU:HD13	1.86	0.58
1:A:977:LEU:HA	1:A:980:ILE:HD12	1.85	0.58
1:A:1698:GLY:O	1:A:1746:ARG:NH2	2.36	0.58
1:A:1727:HIS:NE2	1:C:1731:GLN:HA	2.19	0.58
1:C:965:LEU:HA	1:C:968:ILE:HD12	1.86	0.58
1:C:1156:THR:O	1:C:1160:ARG:HG2	2.03	0.58
1:C:1486:TYR:OH	1:C:1539:ASP:HB2	2.04	0.58
1:E:76:VAL:HG23	1:E:1060:PRO:HD2	1.85	0.58
1:G:408:ALA:HB1	1:G:450:ARG:HB2	1.84	0.58
1:G:1156:THR:O	1:G:1160:ARG:HG2	2.03	0.58
1:G:1963:LEU:O	1:G:1967:HIS:ND1	2.28	0.58
1:G:1992:ILE:HD12	1:G:1997:LYS:HD3	1.86	0.58
1:A:1534:THR:HA	1:A:1537:GLU:OE2	2.04	0.58
1:A:1694:PHE:HB3	1:A:1699:LEU:O	2.04	0.58
1:C:1045:THR:O	1:C:1048:LEU:HG	2.03	0.58
1:C:1464:LEU:HG	1:C:1513:LEU:HD11	1.84	0.58
1:E:1464:LEU:HG	1:E:1513:LEU:HD11	1.84	0.58
2:F:105:CYS:SG	2:F:108:THR:HB	2.44	0.58
1:A:408:ALA:HB1	1:A:450:ARG:HB2	1.84	0.58
1:A:588:VAL:O	1:A:622:HIS:ND1	2.35	0.58
1:A:1662:ASP:HA	1:A:1665:LEU:HD12	1.85	0.58
1:A:1720:TYR:HB3	1:C:1738:MET:HE2	1.85	0.58
1:A:1992:ILE:HD12	1:A:1997:LYS:HD3	1.86	0.58
2:B:9:VAL:HG12	2:B:78:PHE:HZ	1.68	0.58
1:C:1168:LEU:HD23	1:C:1171:ILE:HD12	1.86	0.58
1:C:1572:GLN:HG3	1:C:1573:GLU:OE1	2.04	0.58
1:C:1662:ASP:HA	1:C:1665:LEU:HD12	1.85	0.58
1:E:226:HIS:ND1	1:E:226:HIS:O	2.36	0.58
1:E:938:MET:HE1	1:E:942:MET:HE3	1.85	0.58
1:E:1272:TRP:NE1	1:E:1276:LEU:HD11	2.18	0.58
1:E:1662:ASP:HA	1:E:1665:LEU:HD12	1.85	0.58
1:E:1786:LEU:HD13	1:E:1820:ILE:HD13	1.84	0.58
2:F:4:ILE:HD13	2:F:176:VAL:HG21	1.85	0.58
1:G:1694:PHE:HB3	1:G:1699:LEU:O	2.04	0.58
1:A:283:LEU:H	1:A:293:SER:HB3	1.68	0.58
1:A:775:PHE:HA	1:A:777:HIS:NE2	2.18	0.58
1:A:1825:VAL:HB	1:A:1850:PHE:HB3	1.84	0.58
1:C:127:TYR:HB3	1:C:130:LEU:HD13	1.86	0.58
1:C:259:GLN:HB2	1:C:329:VAL:HB	1.86	0.58
1:C:1698:GLY:HA2	1:C:1700:TYR:CE2	2.39	0.58
2:D:4:ILE:HD13	2:D:176:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:997:LEU:O	1:E:1001:LEU:HG	2.04	0.58
1:E:1486:TYR:OH	1:E:1539:ASP:HB2	2.04	0.58
1:G:259:GLN:HB2	1:G:329:VAL:HB	1.86	0.58
1:G:1272:TRP:O	1:G:1276:LEU:HG	2.03	0.58
1:G:1464:LEU:HG	1:G:1513:LEU:HD11	1.84	0.58
1:G:1486:TYR:OH	1:G:1539:ASP:HB2	2.04	0.58
1:A:283:LEU:HD12	1:A:338:LEU:HB2	1.85	0.58
2:B:4:ILE:HD13	2:B:176:VAL:HG21	1.85	0.58
1:C:280:ILE:HA	1:C:296:PHE:O	2.03	0.58
1:C:1992:ILE:HD12	1:C:1997:LYS:HD3	1.86	0.58
1:E:509:PHE:HE2	1:E:523:ASP:HB2	1.68	0.58
1:G:56:PHE:HE2	1:G:1010:ARG:CZ	2.16	0.58
1:G:226:HIS:ND1	1:G:226:HIS:O	2.36	0.58
1:G:1562:LEU:O	1:G:1565:THR:OG1	2.19	0.58
1:A:965:LEU:HA	1:A:968:ILE:HD12	1.86	0.58
1:A:1272:TRP:NE1	1:A:1276:LEU:HD11	2.18	0.58
1:C:588:VAL:O	1:C:622:HIS:ND1	2.35	0.58
1:C:1655:LEU:O	1:C:1658:SER:OG	2.16	0.58
1:E:543:PRO:HA	1:E:774:ALA:HA	1.84	0.58
1:E:1156:THR:O	1:E:1160:ARG:HG2	2.03	0.58
1:E:1273:ALA:HA	1:E:1276:LEU:HD12	1.86	0.58
1:E:1428:GLN:HE21	1:E:1433:LEU:HD21	1.68	0.58
1:G:1459:CYS:HA	1:G:1462:LEU:HD13	1.86	0.58
1:G:1698:GLY:HA2	1:G:1700:TYR:CE2	2.39	0.58
1:G:1840:TYR:HA	1:G:1843:ARG:HG2	1.86	0.58
1:A:76:VAL:HG23	1:A:1060:PRO:HD2	1.85	0.57
1:A:1554:LEU:O	1:A:1558:LEU:HG	2.03	0.57
1:A:1562:LEU:O	1:A:1565:THR:OG1	2.19	0.57
1:A:1920:THR:HA	1:A:1930:LEU:HD13	1.86	0.57
1:C:1554:LEU:O	1:C:1558:LEU:HG	2.03	0.57
1:E:677:SER:OG	1:E:697:MET:SD	2.59	0.57
1:E:1045:THR:O	1:E:1048:LEU:HG	2.03	0.57
2:F:9:VAL:HG12	2:F:78:PHE:HZ	1.69	0.57
1:G:158:ALA:HB1	1:G:1473:ARG:HB2	1.84	0.57
1:G:509:PHE:HE2	1:G:523:ASP:HB2	1.68	0.57
1:A:774:ALA:O	1:A:777:HIS:NE2	2.36	0.57
1:A:1459:CYS:HA	1:A:1462:LEU:HD13	1.86	0.57
1:A:1565:THR:O	1:A:1569:LYS:HG2	2.03	0.57
1:C:283:LEU:H	1:C:293:SER:HB3	1.68	0.57
1:C:715:SER:OG	1:C:718:HIS:O	2.22	0.57
1:C:997:LEU:O	1:C:1001:LEU:HG	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1273:ALA:HA	1:C:1276:LEU:HD12	1.86	0.57
1:C:1562:LEU:O	1:C:1565:THR:OG1	2.19	0.57
2:H:16:LYS:HZ3	2:H:58:THR:H	1.52	0.57
2:H:105:CYS:SG	2:H:108:THR:HB	2.44	0.57
1:A:1045:THR:O	1:A:1048:LEU:HG	2.03	0.57
1:A:1182:PHE:CD1	1:A:1294:ALA:HA	2.39	0.57
1:A:1486:TYR:OH	1:A:1539:ASP:HB2	2.04	0.57
1:C:223:ARG:NH2	1:C:224:ARG:HH12	2.01	0.57
1:E:1161:VAL:O	1:E:1164:LEU:HB2	2.05	0.57
1:E:1272:TRP:O	1:E:1276:LEU:HG	2.03	0.57
1:G:1434:GLN:O	1:G:1437:LEU:HB2	2.05	0.57
2:H:9:VAL:HG12	2:H:78:PHE:HZ	1.69	0.57
1:A:1161:VAL:O	1:A:1164:LEU:HB2	2.05	0.57
1:C:56:PHE:HE2	1:C:1010:ARG:CZ	2.16	0.57
1:C:1023:GLN:O	1:C:1026:THR:OG1	2.19	0.57
1:E:977:LEU:HA	1:E:980:ILE:HD12	1.85	0.57
1:E:1554:LEU:O	1:E:1558:LEU:HG	2.03	0.57
1:E:1585:ILE:O	1:E:1596:ARG:NH1	2.31	0.57
1:G:548:ARG:N	1:G:716:SER:OG	2.31	0.57
1:G:1698:GLY:O	1:G:1746:ARG:NH2	2.36	0.57
1:G:1920:THR:HA	1:G:1930:LEU:HD13	1.86	0.57
1:A:158:ALA:HB1	1:A:1473:ARG:HB2	1.84	0.57
1:A:1015:SER:O	1:A:1018:ARG:HB2	2.05	0.57
1:A:1999:TYR:OH	2:B:66:ARG:O	2.22	0.57
2:B:72:TYR:HB3	2:B:104:HIS:CG	2.40	0.57
1:C:76:VAL:HG23	1:C:1060:PRO:HD2	1.85	0.57
1:C:509:PHE:HE2	1:C:523:ASP:HB2	1.68	0.57
1:C:1434:GLN:O	1:C:1437:LEU:HB2	2.05	0.57
1:C:1840:TYR:HA	1:C:1843:ARG:HG2	1.86	0.57
1:E:511:LEU:N	1:E:529:THR:O	2.38	0.57
1:E:715:SER:OG	1:E:718:HIS:O	2.22	0.57
1:E:1434:GLN:O	1:E:1437:LEU:HB2	2.05	0.57
1:E:1720:TYR:O	1:E:1723:LEU:N	2.38	0.57
1:E:1999:TYR:OH	2:F:69:PRO:HB2	2.04	0.57
1:G:565:GLY:O	1:G:611:LYS:NZ	2.25	0.57
1:G:1428:GLN:HE21	1:G:1433:LEU:HD21	1.68	0.57
2:H:72:TYR:HB3	2:H:104:HIS:CG	2.40	0.57
1:A:226:HIS:ND1	1:A:226:HIS:O	2.36	0.57
1:A:715:SER:OG	1:A:718:HIS:O	2.22	0.57
1:A:997:LEU:O	1:A:1001:LEU:HG	2.04	0.57
1:A:1698:GLY:HA2	1:A:1700:TYR:CE2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:105:CYS:SG	2:D:108:THR:HB	2.44	0.57
1:E:131:SER:O	1:E:135:SER:N	2.38	0.57
1:E:283:LEU:HD12	1:E:338:LEU:HB2	1.85	0.57
1:E:1106:GLN:HE21	1:E:1107:HIS:CE1	2.23	0.57
1:E:1459:CYS:HA	1:E:1462:LEU:HD13	1.86	0.57
1:E:1694:PHE:HB3	1:E:1699:LEU:O	2.04	0.57
1:A:1106:GLN:HE21	1:A:1107:HIS:CE1	2.23	0.57
1:A:1434:GLN:O	1:A:1437:LEU:HB2	2.05	0.57
1:C:989:LEU:O	1:C:993:LEU:HG	2.05	0.57
1:C:1015:SER:O	1:C:1018:ARG:HB2	2.05	0.57
1:E:783:LEU:HD13	1:E:808:MET:HG3	1.87	0.57
1:G:511:LEU:N	1:G:529:THR:O	2.38	0.57
1:G:1015:SER:O	1:G:1018:ARG:HB2	2.05	0.57
1:G:1788:GLU:O	1:G:1792:GLU:HG2	2.05	0.57
2:H:4:ILE:HD13	2:H:176:VAL:HG21	1.85	0.57
1:A:1156:THR:O	1:A:1160:ARG:HG2	2.03	0.57
1:A:1707:TYR:O	1:A:1711:ILE:HG12	2.05	0.57
1:A:1718:ARG:HH12	1:C:1838:VAL:CG1	2.17	0.57
1:A:1788:GLU:O	1:A:1792:GLU:HG2	2.05	0.57
1:C:1182:PHE:CD1	1:C:1294:ALA:HA	2.39	0.57
1:C:1428:GLN:HE21	1:C:1433:LEU:HD21	1.68	0.57
1:C:1476:THR:O	1:C:1480:HIS:ND1	2.26	0.57
1:E:259:GLN:HB2	1:E:329:VAL:HB	1.86	0.57
1:E:1711:ILE:HG22	1:E:1715:GLU:OE1	2.05	0.57
1:G:1992:ILE:HG21	1:G:2000:HIS:HB2	1.86	0.57
1:A:223:ARG:NH2	1:A:224:ARG:HH12	2.01	0.57
1:A:989:LEU:O	1:A:993:LEU:HG	2.05	0.57
1:A:1168:LEU:HD23	1:A:1171:ILE:HD12	1.86	0.57
2:B:45:MET:HE2	2:B:48:GLY:H	1.70	0.57
2:B:69:PRO:HA	2:B:72:TYR:CG	2.40	0.57
1:C:938:MET:HE1	1:C:942:MET:HE3	1.85	0.57
1:C:1143:LEU:HD13	1:C:1146:HIS:CD2	2.40	0.57
1:C:1648:GLN:OE1	1:C:1652:SER:HA	2.05	0.57
1:C:1694:PHE:HB3	1:C:1699:LEU:O	2.04	0.57
1:C:1920:THR:HA	1:C:1930:LEU:HD13	1.87	0.57
2:D:72:TYR:HB3	2:D:104:HIS:CG	2.40	0.57
1:G:1027:ARG:CZ	1:G:1037:LEU:HD22	2.35	0.57
1:G:1720:TYR:O	1:G:1723:LEU:N	2.38	0.57
2:H:69:PRO:HA	2:H:72:TYR:CG	2.40	0.57
1:A:1600:LEU:HD22	1:A:1623:ALA:HB2	1.87	0.57
1:A:1992:ILE:HG21	1:A:2000:HIS:HB2	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:977:LEU:HA	1:C:980:ILE:HD12	1.85	0.57
1:C:1707:TYR:O	1:C:1711:ILE:HG12	2.05	0.57
2:D:9:VAL:HG12	2:D:78:PHE:HZ	1.69	0.57
1:E:127:TYR:HB3	1:E:130:LEU:HD13	1.86	0.57
1:E:1043:GLU:HG2	1:E:1046:ARG:NH2	2.20	0.57
1:E:1182:PHE:CD1	1:E:1294:ALA:HA	2.39	0.57
1:E:1698:GLY:HA2	1:E:1700:TYR:CE2	2.39	0.57
1:G:1707:TYR:O	1:G:1711:ILE:HG12	2.05	0.57
1:G:1711:ILE:HG22	1:G:1715:GLU:OE1	2.05	0.57
1:A:1857:THR:HG21	1:A:1864:GLY:HA3	1.87	0.56
1:C:1711:ILE:HG22	1:C:1715:GLU:OE1	2.05	0.56
1:C:1998:GLU:O	1:C:2001:ARG:HD3	2.05	0.56
1:E:1600:LEU:HD22	1:E:1623:ALA:HB2	1.87	0.56
1:G:1182:PHE:CD1	1:G:1294:ALA:HA	2.39	0.56
1:G:1267:ALA:HA	1:G:1270:GLN:CD	2.30	0.56
1:A:131:SER:O	1:A:135:SER:N	2.38	0.56
1:A:565:GLY:O	1:A:611:LYS:NZ	2.25	0.56
1:C:284:TYR:CD2	1:C:291:LYS:HA	2.40	0.56
1:C:569:ASN:ND2	1:C:642:CYS:SG	2.78	0.56
1:C:792:ILE:HD11	1:C:903:LEU:HD21	1.88	0.56
1:E:223:ARG:NH2	1:E:224:ARG:HH12	2.01	0.56
1:E:1015:SER:O	1:E:1018:ARG:HB2	2.05	0.56
1:E:1027:ARG:CZ	1:E:1037:LEU:HD22	2.35	0.56
1:E:1549:GLU:OE2	1:E:1549:GLU:N	2.33	0.56
1:E:1648:GLN:OE1	1:E:1652:SER:HA	2.05	0.56
1:E:1862:ALA:O	1:E:1869:GLN:NE2	2.39	0.56
2:F:45:MET:HE2	2:F:48:GLY:H	1.70	0.56
1:G:83:LEU:HD23	1:G:125:ARG:HG2	1.87	0.56
1:G:131:SER:O	1:G:135:SER:N	2.38	0.56
1:G:989:LEU:O	1:G:993:LEU:HG	2.05	0.56
1:G:997:LEU:O	1:G:1001:LEU:HG	2.04	0.56
1:G:1862:ALA:O	1:G:1869:GLN:NE2	2.39	0.56
1:G:1998:GLU:O	1:G:2001:ARG:HD3	2.05	0.56
1:A:150:PRO:HG3	1:A:226:HIS:CE1	2.40	0.56
1:A:259:GLN:HB2	1:A:329:VAL:HB	1.86	0.56
1:A:569:ASN:ND2	1:A:642:CYS:SG	2.78	0.56
1:A:1027:ARG:CZ	1:A:1037:LEU:HD22	2.35	0.56
1:A:1043:GLU:HG2	1:A:1046:ARG:NH2	2.20	0.56
1:A:1143:LEU:HD13	1:A:1146:HIS:CD2	2.40	0.56
1:A:1720:TYR:O	1:A:1723:LEU:N	2.38	0.56
1:C:1027:ARG:CZ	1:C:1037:LEU:HD22	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1267:ALA:HA	1:C:1270:GLN:CD	2.30	0.56
1:C:1516:THR:O	1:C:1518:GLN:NE2	2.39	0.56
1:E:965:LEU:HA	1:E:968:ILE:HD12	1.86	0.56
1:E:1143:LEU:HD13	1:E:1146:HIS:CD2	2.40	0.56
1:E:1168:LEU:HD23	1:E:1171:ILE:HD12	1.86	0.56
1:E:1676:LYS:HG3	1:E:1677:HIS:H	1.70	0.56
1:E:1920:THR:HA	1:E:1930:LEU:HD13	1.87	0.56
1:E:1992:ILE:HG21	1:E:2000:HIS:HB2	1.86	0.56
1:G:569:ASN:ND2	1:G:642:CYS:SG	2.78	0.56
1:G:1161:VAL:O	1:G:1164:LEU:HB2	2.05	0.56
1:G:1273:ALA:HA	1:G:1276:LEU:HD12	1.86	0.56
2:H:45:MET:HE2	2:H:48:GLY:H	1.70	0.56
2:H:87:PRO:HG2	2:H:134:LEU:HD21	1.87	0.56
1:A:656:PHE:O	1:A:677:SER:HB3	2.05	0.56
1:A:1273:ALA:HA	1:A:1276:LEU:HD12	1.86	0.56
1:A:1648:GLN:OE1	1:A:1652:SER:HA	2.05	0.56
1:A:1902:VAL:O	1:A:1906:ILE:HG12	2.06	0.56
1:C:1435:HIS:O	1:C:1439:THR:HG23	2.06	0.56
1:C:1459:CYS:HA	1:C:1462:LEU:HD13	1.86	0.56
1:E:1788:GLU:O	1:E:1792:GLU:HG2	2.05	0.56
1:E:1902:VAL:O	1:E:1906:ILE:HG12	2.06	0.56
2:F:72:TYR:HB3	2:F:104:HIS:CG	2.40	0.56
1:G:1143:LEU:HD13	1:G:1146:HIS:CD2	2.40	0.56
1:G:1168:LEU:HD23	1:G:1171:ILE:HD12	1.86	0.56
1:G:1600:LEU:HD22	1:G:1623:ALA:HB2	1.87	0.56
1:G:1648:GLN:OE1	1:G:1652:SER:HA	2.05	0.56
1:A:1711:ILE:HG22	1:A:1715:GLU:OE1	2.05	0.56
1:A:1718:ARG:HH12	1:C:1838:VAL:HG12	1.70	0.56
1:C:783:LEU:HD13	1:C:808:MET:HG3	1.87	0.56
1:C:1106:GLN:HE21	1:C:1107:HIS:CE1	2.23	0.56
1:E:1396:LEU:HA	1:E:1399:ILE:HD12	1.88	0.56
1:G:127:TYR:HB3	1:G:130:LEU:HD13	1.86	0.56
2:B:87:PRO:HG2	2:B:134:LEU:HD21	1.88	0.56
1:C:45:VAL:HB	1:C:1104:ARG:NH1	2.21	0.56
1:C:511:LEU:N	1:C:529:THR:O	2.38	0.56
2:D:69:PRO:HA	2:D:72:TYR:CG	2.40	0.56
2:D:87:PRO:HG2	2:D:134:LEU:HD21	1.88	0.56
1:E:588:VAL:O	1:E:622:HIS:ND1	2.35	0.56
1:G:45:VAL:HB	1:G:1104:ARG:NH1	2.21	0.56
1:G:783:LEU:HD13	1:G:808:MET:HG3	1.87	0.56
1:G:1435:HIS:O	1:G:1439:THR:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1618:GLN:HE22	1:G:1883:PRO:C	2.10	0.56
1:A:1840:TYR:HA	1:A:1843:ARG:HG2	1.86	0.56
1:C:656:PHE:O	1:C:677:SER:HB3	2.05	0.56
1:C:1676:LYS:HG3	1:C:1677:HIS:H	1.70	0.56
1:C:1788:GLU:O	1:C:1792:GLU:HG2	2.05	0.56
1:E:569:ASN:ND2	1:E:642:CYS:SG	2.78	0.56
1:E:1403:VAL:HG13	1:E:1409:ARG:HD3	1.88	0.56
1:E:1707:TYR:O	1:E:1711:ILE:HG12	2.05	0.56
1:G:715:SER:OG	1:G:718:HIS:O	2.22	0.56
1:G:1106:GLN:HE21	1:G:1107:HIS:CE1	2.23	0.56
1:G:1595:LEU:HD12	1:G:1599:TRP:HE1	1.71	0.56
1:A:284:TYR:CD2	1:A:291:LYS:HA	2.41	0.56
1:A:836:VAL:HA	1:A:840:PHE:HB2	1.88	0.56
1:A:1267:ALA:HA	1:A:1270:GLN:CD	2.30	0.56
1:C:407:SER:HA	1:E:403:ASN:HA	1.88	0.56
1:C:408:ALA:HB3	1:C:449:PHE:HB2	1.88	0.56
1:C:1588:GLY:N	1:C:1596:ARG:HH22	2.04	0.56
1:C:2002:GLU:OE1	1:C:2006:ASN:ND2	2.39	0.56
1:E:1998:GLU:O	1:E:2001:ARG:HD3	2.05	0.56
2:F:69:PRO:HA	2:F:72:TYR:CG	2.40	0.56
1:G:2002:GLU:OE1	1:G:2006:ASN:ND2	2.39	0.56
1:A:1892:CYS:SG	1:A:1893:HIS:ND1	2.79	0.56
1:C:774:ALA:O	1:C:777:HIS:NE2	2.36	0.56
1:C:1595:LEU:HD12	1:C:1599:TRP:HE1	1.71	0.56
1:C:1720:TYR:O	1:C:1723:LEU:N	2.38	0.56
1:E:1435:HIS:O	1:E:1439:THR:HG23	2.06	0.56
1:G:231:LEU:HB3	1:G:1259:TRP:CD1	2.41	0.56
1:G:1857:THR:HG21	1:G:1864:GLY:HA3	1.87	0.56
1:A:1023:GLN:O	1:A:1026:THR:OG1	2.19	0.56
1:A:1396:LEU:HA	1:A:1399:ILE:HD12	1.88	0.56
1:A:1435:HIS:O	1:A:1439:THR:HG23	2.06	0.56
1:A:1676:LYS:HG3	1:A:1677:HIS:H	1.70	0.56
1:C:231:LEU:HB3	1:C:1259:TRP:CD1	2.41	0.56
1:C:383:PHE:O	1:C:387:LEU:HB2	2.06	0.56
1:C:1161:VAL:O	1:C:1164:LEU:HB2	2.05	0.56
1:C:1992:ILE:HG21	1:C:2000:HIS:HB2	1.87	0.56
1:E:1023:GLN:O	1:E:1026:THR:OG1	2.19	0.56
1:E:1267:ALA:HA	1:E:1270:GLN:CD	2.30	0.56
1:E:1727:HIS:HE1	1:G:1731:GLN:CG	2.19	0.56
1:E:1824:TYR:HE1	2:F:27:ALA:HA	1.71	0.56
1:G:656:PHE:O	1:G:677:SER:HB3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:792:ILE:HD11	1:G:903:LEU:HD21	1.88	0.56
1:G:836:VAL:HA	1:G:840:PHE:HB2	1.88	0.56
1:G:1516:THR:O	1:G:1518:GLN:NE2	2.39	0.56
1:A:84:GLU:HB3	1:A:124:HIS:HB3	1.89	0.55
1:A:548:ARG:N	1:A:716:SER:OG	2.31	0.55
1:A:783:LEU:HD13	1:A:808:MET:HG3	1.87	0.55
1:A:1560:MET:O	1:A:1563:THR:OG1	2.22	0.55
1:C:335:ASP:OD1	1:C:480:ARG:NH1	2.40	0.55
1:C:1698:GLY:O	1:C:1746:ARG:NH2	2.36	0.55
1:C:1862:ALA:O	1:C:1869:GLN:NE2	2.39	0.55
1:E:656:PHE:O	1:E:677:SER:HB3	2.05	0.55
1:E:989:LEU:O	1:E:993:LEU:HG	2.05	0.55
2:F:78:PHE:HB3	2:F:110:ILE:HG12	1.89	0.55
1:G:284:TYR:CD2	1:G:291:LYS:HA	2.40	0.55
1:G:383:PHE:O	1:G:387:LEU:HB2	2.06	0.55
1:G:1043:GLU:HG2	1:G:1046:ARG:NH2	2.20	0.55
1:A:1425:GLY:HA2	1:A:1469:HIS:NE2	2.22	0.55
1:A:1502:VAL:O	1:A:1506:VAL:HG23	2.06	0.55
1:A:1998:GLU:O	1:A:2001:ARG:HD3	2.05	0.55
1:A:2002:GLU:OE1	1:A:2006:ASN:ND2	2.39	0.55
1:C:131:SER:O	1:C:135:SER:N	2.38	0.55
1:C:836:VAL:HA	1:C:840:PHE:HB2	1.88	0.55
1:C:1043:GLU:HG2	1:C:1046:ARG:NH2	2.20	0.55
1:C:1502:VAL:O	1:C:1506:VAL:HG23	2.06	0.55
1:C:1600:LEU:HD22	1:C:1623:ALA:HB2	1.87	0.55
1:E:284:TYR:CD2	1:E:291:LYS:HA	2.40	0.55
1:E:792:ILE:HD11	1:E:903:LEU:HD21	1.88	0.55
1:E:836:VAL:HA	1:E:840:PHE:HB2	1.88	0.55
1:E:1502:VAL:O	1:E:1506:VAL:HG23	2.06	0.55
1:E:1588:GLY:N	1:E:1596:ARG:HH22	2.04	0.55
1:E:2002:GLU:OE1	1:E:2006:ASN:ND2	2.39	0.55
2:F:87:PRO:HG2	2:F:134:LEU:HD21	1.88	0.55
1:A:1563:THR:O	1:A:1567:LYS:HG2	2.06	0.55
1:A:1862:ALA:O	1:A:1869:GLN:NE2	2.39	0.55
1:G:605:PRO:HD2	1:G:617:GLU:HB2	1.89	0.55
1:G:956:ARG:NH1	1:G:1007:LEU:O	2.39	0.55
1:G:1396:LEU:HA	1:G:1399:ILE:HD12	1.88	0.55
1:A:124:HIS:CE1	1:A:126:ARG:HA	2.42	0.55
1:A:231:LEU:HB3	1:A:1259:TRP:CD1	2.41	0.55
1:A:946:LEU:HD12	1:A:959:ARG:NH2	2.21	0.55
1:A:1585:ILE:O	1:A:1596:ARG:NH1	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:638:TYR:HD1	1:C:651:GLU:HB2	1.72	0.55
2:D:45:MET:HE2	2:D:48:GLY:H	1.70	0.55
1:E:150:PRO:HG3	1:E:226:HIS:CE1	2.40	0.55
1:E:335:ASP:OD1	1:E:480:ARG:NH1	2.40	0.55
1:E:1560:MET:O	1:E:1563:THR:OG1	2.22	0.55
1:E:1840:TYR:HA	1:E:1843:ARG:HG2	1.86	0.55
1:G:56:PHE:HB2	1:G:1014:PHE:CE2	2.41	0.55
1:G:1563:THR:O	1:G:1567:LYS:HG2	2.07	0.55
1:A:408:ALA:HB3	1:A:449:PHE:HB2	1.88	0.55
1:A:792:ILE:HD11	1:A:903:LEU:HD21	1.88	0.55
1:A:1403:VAL:HG13	1:A:1409:ARG:HD3	1.88	0.55
2:B:7:VAL:HA	2:B:56:TRP:HB2	1.89	0.55
1:C:124:HIS:CE1	1:C:126:ARG:HA	2.41	0.55
1:C:331:TYR:CD2	1:C:537:ALA:HB3	2.42	0.55
1:C:605:PRO:HD2	1:C:617:GLU:HB2	1.89	0.55
2:D:2:GLN:NE2	2:D:3:ALA:O	2.40	0.55
1:E:599:THR:HG22	1:E:601:GLU:H	1.71	0.55
1:E:972:VAL:HA	1:E:975:VAL:HG22	1.89	0.55
1:E:1555:MET:O	1:E:1559:HIS:ND1	2.39	0.55
1:E:1595:LEU:HD12	1:E:1599:TRP:HE1	1.71	0.55
1:E:1615:GLU:HB2	1:E:1885:ILE:HA	1.89	0.55
1:E:1720:TYR:O	1:E:1723:LEU:HB2	2.07	0.55
1:G:1403:VAL:HG13	1:G:1409:ARG:HD3	1.88	0.55
1:G:1502:VAL:O	1:G:1506:VAL:HG23	2.06	0.55
1:G:1503:LYS:HD2	1:G:1554:LEU:CD1	2.36	0.55
1:A:83:LEU:HD23	1:A:125:ARG:HG2	1.87	0.55
1:A:1595:LEU:HD12	1:A:1599:TRP:HE1	1.71	0.55
1:A:1720:TYR:O	1:A:1723:LEU:HB2	2.07	0.55
1:A:1878:THR:OG1	1:A:1880:HIS:O	2.24	0.55
2:B:78:PHE:HB3	2:B:110:ILE:HG12	1.89	0.55
1:C:83:LEU:HD23	1:C:125:ARG:HG2	1.87	0.55
1:C:972:VAL:HA	1:C:975:VAL:HG22	1.89	0.55
1:C:1058:ASN:HB3	1:C:1107:HIS:HB3	1.89	0.55
1:C:1396:LEU:HA	1:C:1399:ILE:HD12	1.88	0.55
1:C:1503:LYS:HD2	1:C:1554:LEU:CD1	2.36	0.55
1:C:1909:MET:CE	1:C:1974:PHE:HA	2.34	0.55
1:E:408:ALA:HB3	1:E:449:PHE:HB2	1.88	0.55
1:E:638:TYR:HD1	1:E:651:GLU:HB2	1.72	0.55
1:E:774:ALA:O	1:E:777:HIS:NE2	2.36	0.55
1:E:1425:GLY:HA2	1:E:1469:HIS:NE2	2.22	0.55
1:E:1857:THR:HG21	1:E:1864:GLY:HA3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1871:LYS:HB3	1:E:1899:LEU:HB2	1.89	0.55
1:G:331:TYR:CD2	1:G:537:ALA:HB3	2.42	0.55
1:G:1170:SER:HA	1:G:1173:ARG:HG2	1.89	0.55
1:G:1928:LYS:O	1:G:1932:MET:HB2	2.07	0.55
2:H:78:PHE:HB3	2:H:110:ILE:HG12	1.89	0.55
1:A:1503:LYS:HD2	1:A:1554:LEU:CD1	2.36	0.55
1:A:1928:LYS:O	1:A:1932:MET:HB2	2.07	0.55
1:C:568:ARG:HD2	1:C:609:HIS:HD2	1.72	0.55
1:E:145:ARG:CZ	1:E:230:ALA:HB3	2.37	0.55
1:E:231:LEU:HB3	1:E:1259:TRP:CD1	2.41	0.55
1:E:956:ARG:NH1	1:E:1007:LEU:O	2.39	0.55
1:E:1170:SER:HA	1:E:1173:ARG:HG2	1.89	0.55
1:E:1416:VAL:O	1:E:1420:VAL:HG23	2.07	0.55
1:E:1563:THR:O	1:E:1567:LYS:HG2	2.07	0.55
1:G:84:GLU:HB3	1:G:124:HIS:HB3	1.89	0.55
1:G:335:ASP:OD1	1:G:480:ARG:NH1	2.40	0.55
1:G:408:ALA:HB3	1:G:449:PHE:HB2	1.88	0.55
1:G:1555:MET:O	1:G:1559:HIS:ND1	2.39	0.55
1:A:56:PHE:HB2	1:A:1014:PHE:CE2	2.41	0.55
1:A:568:ARG:HD2	1:A:609:HIS:HD2	1.72	0.55
1:A:1416:VAL:O	1:A:1420:VAL:HG23	2.07	0.55
1:A:1588:GLY:N	1:A:1596:ARG:HH22	2.04	0.55
1:A:1871:LYS:HB3	1:A:1899:LEU:HB2	1.89	0.55
1:C:145:ARG:CZ	1:C:230:ALA:HB3	2.37	0.55
1:C:956:ARG:NH1	1:C:1007:LEU:O	2.39	0.55
1:C:1618:GLN:HE22	1:C:1883:PRO:C	2.10	0.55
1:E:946:LEU:HD12	1:E:959:ARG:NH2	2.21	0.55
1:G:1162:ALA:O	1:G:1165:TYR:N	2.40	0.55
1:A:508:HIS:HA	1:A:520:PRO:HG2	1.89	0.55
1:A:677:SER:OG	1:A:697:MET:SD	2.59	0.55
1:A:933:PHE:HA	1:A:936:GLN:NE2	2.22	0.55
1:A:1555:MET:O	1:A:1559:HIS:ND1	2.39	0.55
2:B:2:GLN:NE2	2:B:3:ALA:O	2.40	0.55
1:C:946:LEU:HD12	1:C:959:ARG:NH2	2.21	0.55
1:E:45:VAL:HB	1:E:1104:ARG:NH1	2.21	0.55
1:E:1058:ASN:HB3	1:E:1107:HIS:HB3	1.89	0.55
1:E:1162:ALA:O	1:E:1165:TYR:N	2.39	0.55
1:E:1503:LYS:HD2	1:E:1554:LEU:CD1	2.36	0.55
1:G:638:TYR:HD1	1:G:651:GLU:HB2	1.72	0.55
1:G:1549:GLU:OE2	1:G:1549:GLU:N	2.33	0.55
1:G:1676:LYS:HG3	1:G:1677:HIS:H	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1967:HIS:O	1:A:1971:ARG:HD3	2.07	0.55
1:C:150:PRO:HG3	1:C:226:HIS:CE1	2.40	0.55
1:C:508:HIS:HA	1:C:520:PRO:HG2	1.89	0.55
1:C:1425:GLY:HA2	1:C:1469:HIS:NE2	2.22	0.55
1:C:1560:MET:O	1:C:1563:THR:OG1	2.22	0.55
1:C:1615:GLU:HB2	1:C:1885:ILE:HA	1.89	0.55
1:E:83:LEU:HD23	1:E:125:ARG:HG2	1.88	0.55
1:E:1700:TYR:CD2	1:E:1737:ILE:HD11	2.42	0.55
1:E:1942:VAL:HG22	2:F:59:ALA:HA	1.89	0.55
1:G:568:ARG:HD2	1:G:609:HIS:HD2	1.72	0.55
1:G:1058:ASN:HB3	1:G:1107:HIS:HB3	1.89	0.55
1:G:1292:LEU:HD21	1:G:1392:VAL:HG21	1.89	0.55
1:G:1902:VAL:O	1:G:1906:ILE:HG12	2.06	0.55
2:H:153:LYS:NZ	2:H:154:TYR:O	2.40	0.55
1:A:335:ASP:OD1	1:A:480:ARG:NH1	2.40	0.54
1:A:343:GLU:OE1	1:A:616:TYR:OH	2.25	0.54
1:A:383:PHE:O	1:A:387:LEU:HB2	2.06	0.54
1:A:638:TYR:HD1	1:A:651:GLU:HB2	1.72	0.54
1:C:1549:GLU:OE2	1:C:1549:GLU:N	2.33	0.54
1:C:1555:MET:O	1:C:1559:HIS:ND1	2.39	0.54
1:E:121:VAL:HG21	1:E:841:ARG:HG2	1.89	0.54
1:E:124:HIS:CE1	1:E:126:ARG:HA	2.41	0.54
1:E:128:GLN:HB3	1:E:134:TYR:CD1	2.43	0.54
1:E:214:ASP:OD2	1:E:215:VAL:N	2.40	0.54
1:E:1516:THR:O	1:E:1518:GLN:NE2	2.39	0.54
1:G:145:ARG:CZ	1:G:230:ALA:HB3	2.37	0.54
1:G:1967:HIS:O	1:G:1971:ARG:HD3	2.07	0.54
2:B:153:LYS:NZ	2:B:154:TYR:O	2.40	0.54
1:C:214:ASP:OD2	1:C:215:VAL:N	2.40	0.54
1:C:1170:SER:HA	1:C:1173:ARG:HG2	1.89	0.54
1:C:1878:THR:OG1	1:C:1880:HIS:O	2.24	0.54
1:E:84:GLU:HB3	1:E:124:HIS:HB3	1.89	0.54
1:E:568:ARG:HD2	1:E:609:HIS:HD2	1.72	0.54
1:E:605:PRO:HD2	1:E:617:GLU:HB2	1.89	0.54
1:E:933:PHE:HA	1:E:936:GLN:NE2	2.22	0.54
1:G:277:ILE:HG21	1:G:342:LEU:HD23	1.89	0.54
1:G:508:HIS:HA	1:G:520:PRO:HG2	1.89	0.54
1:G:946:LEU:HD12	1:G:959:ARG:NH2	2.21	0.54
1:A:128:GLN:HB3	1:A:134:TYR:CD1	2.43	0.54
1:A:331:TYR:CD2	1:A:537:ALA:HB3	2.42	0.54
1:A:511:LEU:N	1:A:529:THR:O	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:956:ARG:NH1	1:A:1007:LEU:O	2.39	0.54
1:C:152:GLN:HE21	1:C:1382:GLY:HA3	1.73	0.54
1:C:1563:THR:O	1:C:1567:LYS:HG2	2.07	0.54
1:C:1700:TYR:CD2	1:C:1737:ILE:HD11	2.42	0.54
1:C:1902:VAL:O	1:C:1906:ILE:HG12	2.06	0.54
2:D:78:PHE:HB3	2:D:110:ILE:HG12	1.89	0.54
1:E:508:HIS:HA	1:E:520:PRO:HG2	1.89	0.54
1:E:1928:LYS:O	1:E:1932:MET:HB2	2.07	0.54
1:E:1967:HIS:O	1:E:1971:ARG:HD3	2.07	0.54
1:G:214:ASP:OD2	1:G:215:VAL:N	2.40	0.54
1:G:1588:GLY:N	1:G:1596:ARG:HH22	2.04	0.54
1:G:1695:THR:HA	1:G:1700:TYR:CE1	2.43	0.54
1:A:214:ASP:OD2	1:A:215:VAL:N	2.40	0.54
1:A:1170:SER:HA	1:A:1173:ARG:NE	2.23	0.54
1:A:1516:THR:O	1:A:1518:GLN:NE2	2.39	0.54
1:C:1403:VAL:HG13	1:C:1409:ARG:HD3	1.88	0.54
1:C:1617:ALA:HB3	1:C:1694:PHE:CE1	2.43	0.54
1:C:1871:LYS:HB3	1:C:1899:LEU:HB2	1.89	0.54
1:E:467:LEU:HG	1:E:472:LEU:HD13	1.89	0.54
2:F:7:VAL:HA	2:F:56:TRP:HB2	1.89	0.54
2:F:132:LYS:HZ2	2:F:134:LEU:HD13	1.72	0.54
1:G:124:HIS:CE1	1:G:126:ARG:HA	2.41	0.54
1:G:467:LEU:HG	1:G:472:LEU:HD13	1.89	0.54
1:G:1416:VAL:O	1:G:1420:VAL:HG23	2.07	0.54
1:G:1824:TYR:CE1	2:H:27:ALA:HA	2.34	0.54
2:H:29:PRO:HG3	2:H:159:ALA:O	2.08	0.54
1:A:152:GLN:HE21	1:A:1382:GLY:HA3	1.73	0.54
1:A:1170:SER:HA	1:A:1173:ARG:HG2	1.89	0.54
1:C:467:LEU:HG	1:C:472:LEU:HD13	1.89	0.54
1:C:933:PHE:HA	1:C:936:GLN:NE2	2.22	0.54
1:C:1967:HIS:O	1:C:1971:ARG:HD3	2.07	0.54
2:D:29:PRO:HG3	2:D:159:ALA:O	2.07	0.54
2:D:153:LYS:NZ	2:D:154:TYR:O	2.40	0.54
1:E:1152:TYR:O	1:E:1158:LYS:HE3	2.08	0.54
1:G:1170:SER:HA	1:G:1173:ARG:NE	2.23	0.54
1:G:1871:LYS:HB3	1:G:1899:LEU:HB2	1.89	0.54
2:H:2:GLN:NE2	2:H:3:ALA:O	2.40	0.54
1:A:45:VAL:HB	1:A:1104:ARG:NH1	2.21	0.54
1:A:577:MET:HE1	1:A:634:LEU:HB2	1.90	0.54
1:A:972:VAL:HA	1:A:975:VAL:HG22	1.89	0.54
1:A:1851:LEU:HD11	1:A:1873:LYS:HD2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:56:PHE:HB2	1:C:1014:PHE:CE2	2.41	0.54
1:C:84:GLU:HB3	1:C:124:HIS:HB3	1.89	0.54
1:C:964:PHE:CE2	1:C:968:ILE:HD11	2.43	0.54
1:C:1170:SER:HA	1:C:1173:ARG:NE	2.22	0.54
2:D:7:VAL:HA	2:D:56:TRP:HB2	1.89	0.54
1:E:115:MET:HE3	1:E:778:HIS:NE2	2.23	0.54
1:E:331:TYR:CD2	1:E:537:ALA:HB3	2.42	0.54
2:F:2:GLN:NE2	2:F:3:ALA:O	2.40	0.54
1:G:63:ARG:NH1	1:G:1062:CYS:SG	2.79	0.54
2:H:8:VAL:O	2:H:16:LYS:NZ	2.41	0.54
1:A:146:GLN:NE2	1:A:234:LEU:HA	2.23	0.54
1:A:277:ILE:HG21	1:A:342:LEU:HD23	1.89	0.54
1:A:933:PHE:O	1:A:936:GLN:HG2	2.08	0.54
1:A:1615:GLU:HB2	1:A:1885:ILE:HA	1.89	0.54
1:A:2012:GLU:HA	1:A:2015:GLN:OE1	2.08	0.54
1:C:115:MET:HE3	1:C:778:HIS:NE2	2.23	0.54
1:C:577:MET:HE1	1:C:634:LEU:HB2	1.90	0.54
1:C:599:THR:HG22	1:C:601:GLU:H	1.71	0.54
1:C:1857:THR:HG21	1:C:1864:GLY:HA3	1.88	0.54
1:E:277:ILE:HG21	1:E:342:LEU:HD23	1.89	0.54
1:E:1909:MET:CE	1:E:1974:PHE:HA	2.34	0.54
1:G:933:PHE:O	1:G:936:GLN:HG2	2.08	0.54
1:G:1720:TYR:O	1:G:1723:LEU:HB2	2.07	0.54
2:H:84:LEU:HD13	2:H:120:ARG:NE	2.20	0.54
1:A:63:ARG:NH1	1:A:1062:CYS:SG	2.79	0.54
1:A:996:SER:HA	1:A:999:PHE:CD2	2.43	0.54
1:A:1695:THR:HA	1:A:1700:TYR:CE1	2.43	0.54
2:B:29:PRO:HG3	2:B:159:ALA:O	2.07	0.54
1:C:121:VAL:HG21	1:C:841:ARG:HG2	1.89	0.54
1:C:128:GLN:HB3	1:C:134:TYR:CD1	2.42	0.54
1:C:1481:ALA:O	1:C:1485:LEU:HG	2.08	0.54
1:C:1695:THR:HA	1:C:1700:TYR:CE1	2.43	0.54
1:C:1720:TYR:O	1:C:1723:LEU:HB2	2.07	0.54
1:C:1928:LYS:O	1:C:1932:MET:HB2	2.07	0.54
1:E:1043:GLU:HA	1:E:1046:ARG:HG3	1.90	0.54
1:E:1476:THR:O	1:E:1480:HIS:ND1	2.26	0.54
1:E:1962:LYS:O	1:E:1966:HIS:ND1	2.41	0.54
1:G:120:TRP:CE3	1:G:838:TYR:HB3	2.43	0.54
1:G:1425:GLY:HA2	1:G:1469:HIS:NE2	2.21	0.54
1:G:1851:LEU:HD11	1:G:1873:LYS:HD2	1.90	0.54
1:A:467:LEU:HG	1:A:472:LEU:HD13	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:980:ILE:HG22	1:A:1027:ARG:NE	2.18	0.54
1:A:1700:TYR:CD2	1:A:1737:ILE:HD11	2.42	0.54
1:C:120:TRP:CE3	1:C:838:TYR:HB3	2.43	0.54
1:C:146:GLN:NE2	1:C:234:LEU:HA	2.23	0.54
1:C:204:PRO:O	1:C:207:LEU:HG	2.08	0.54
1:E:383:PHE:O	1:E:387:LEU:HB2	2.06	0.54
1:E:964:PHE:CE2	1:E:968:ILE:HD11	2.43	0.54
1:E:1481:ALA:O	1:E:1485:LEU:HG	2.08	0.54
2:F:29:PRO:HG3	2:F:159:ALA:O	2.08	0.54
1:G:557:SER:HA	1:G:614:GLU:HA	1.90	0.54
1:G:1043:GLU:HA	1:G:1046:ARG:HG3	1.90	0.54
1:G:1423:SER:O	1:G:1426:SER:OG	2.26	0.54
1:A:599:THR:HG22	1:A:601:GLU:H	1.71	0.54
1:A:605:PRO:HD2	1:A:617:GLU:HB2	1.89	0.54
1:A:1292:LEU:HD21	1:A:1392:VAL:HG21	1.89	0.54
1:C:1043:GLU:HA	1:C:1046:ARG:HG3	1.90	0.54
2:D:84:LEU:HD13	2:D:120:ARG:NE	2.20	0.54
1:E:577:MET:HE1	1:E:634:LEU:HB2	1.90	0.54
1:E:1727:HIS:CE1	1:G:1731:GLN:CG	2.90	0.54
2:F:153:LYS:NZ	2:F:154:TYR:O	2.41	0.54
1:G:964:PHE:CE2	1:G:968:ILE:HD11	2.43	0.54
1:G:972:VAL:HA	1:G:975:VAL:HG22	1.89	0.54
1:G:1527:ARG:O	1:G:1531:THR:HG23	2.08	0.54
1:G:1615:GLU:HB2	1:G:1885:ILE:HA	1.89	0.54
1:A:121:VAL:HG21	1:A:841:ARG:HG2	1.89	0.53
1:A:229:PRO:O	1:A:1262:LYS:NZ	2.26	0.53
1:A:1369:LYS:HB3	1:A:1374:MET:SD	2.49	0.53
1:A:1423:SER:O	1:A:1426:SER:OG	2.26	0.53
1:A:1527:ARG:O	1:A:1531:THR:HG23	2.08	0.53
1:C:407:SER:O	1:E:403:ASN:HB3	2.08	0.53
1:C:1963:LEU:O	1:C:1967:HIS:ND1	2.28	0.53
1:E:152:GLN:HE21	1:E:1382:GLY:HA3	1.73	0.53
1:E:204:PRO:O	1:E:207:LEU:HG	2.08	0.53
1:E:1942:VAL:CG2	2:F:59:ALA:HA	2.38	0.53
1:G:121:VAL:HG21	1:G:841:ARG:HG2	1.89	0.53
1:G:203:LEU:HB3	1:G:206:LEU:HD13	1.90	0.53
1:G:599:THR:HG22	1:G:601:GLU:H	1.71	0.53
1:G:1863:HIS:CD2	2:H:34:PRO:HB3	2.43	0.53
1:A:93:ARG:NH2	1:A:507:PRO:HD2	2.23	0.53
1:A:120:TRP:CE3	1:A:838:TYR:HB3	2.43	0.53
1:A:145:ARG:CZ	1:A:230:ALA:HB3	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1058:ASN:HB3	1:A:1107:HIS:HB3	1.89	0.53
1:A:1549:GLU:OE2	1:A:1549:GLU:N	2.33	0.53
1:A:1617:ALA:HB3	1:A:1694:PHE:CE1	2.43	0.53
1:C:346:LEU:HD22	1:C:606:VAL:HG21	1.90	0.53
1:C:1499:PHE:O	1:C:1503:LYS:N	2.32	0.53
1:C:1510:LEU:O	1:C:1514:VAL:HG22	2.08	0.53
1:E:120:TRP:CE3	1:E:838:TYR:HB3	2.43	0.53
1:E:1296:GLU:CD	1:E:1426:SER:HB2	2.33	0.53
1:E:1527:ARG:O	1:E:1531:THR:HG23	2.08	0.53
1:E:1963:LEU:O	1:E:1967:HIS:ND1	2.28	0.53
1:E:1999:TYR:OH	2:F:66:ARG:NH1	2.41	0.53
1:G:128:GLN:HB3	1:G:134:TYR:CD1	2.43	0.53
1:G:634:LEU:HD21	1:G:656:PHE:HD1	1.74	0.53
1:A:1053:HIS:HA	1:A:1055:VAL:HG22	1.91	0.53
1:C:634:LEU:HD21	1:C:656:PHE:HD1	1.74	0.53
1:C:1369:LYS:HB3	1:C:1374:MET:SD	2.49	0.53
1:C:1416:VAL:HG23	1:C:1417:LEU:HD22	1.91	0.53
1:E:334:PRO:O	1:E:400:HIS:NE2	2.41	0.53
1:E:1170:SER:HA	1:E:1173:ARG:NE	2.22	0.53
1:G:146:GLN:NE2	1:G:234:LEU:HA	2.23	0.53
1:G:204:PRO:O	1:G:207:LEU:HG	2.08	0.53
1:G:1416:VAL:HG23	1:G:1417:LEU:HD22	1.90	0.53
2:H:7:VAL:HA	2:H:56:TRP:HB2	1.89	0.53
1:A:115:MET:HE3	1:A:778:HIS:NE2	2.23	0.53
1:A:213:GLU:O	1:A:216:ASP:HB3	2.09	0.53
1:A:1021:TYR:CE1	1:A:1041:ARG:HD2	2.43	0.53
1:A:1151:ARG:HH21	1:A:1152:TYR:HH	1.55	0.53
1:A:1684:VAL:O	1:A:1687:LEU:HG	2.09	0.53
2:B:84:LEU:HD13	2:B:120:ARG:NE	2.20	0.53
1:C:1152:TYR:O	1:C:1158:LYS:HE3	2.08	0.53
1:C:2012:GLU:HA	1:C:2015:GLN:OE1	2.08	0.53
2:D:8:VAL:O	2:D:16:LYS:NZ	2.41	0.53
1:E:1695:THR:HA	1:E:1700:TYR:CE1	2.43	0.53
1:E:1727:HIS:HE1	1:G:1731:GLN:HG3	1.71	0.53
1:G:50:VAL:HG21	1:G:1018:ARG:HA	1.91	0.53
1:G:55:ASP:O	1:G:55:ASP:OD2	2.27	0.53
1:G:933:PHE:HA	1:G:936:GLN:NE2	2.22	0.53
1:G:1700:TYR:CD2	1:G:1737:ILE:HD11	2.42	0.53
2:H:9:VAL:HA	2:H:16:LYS:HZ1	1.74	0.53
1:A:634:LEU:HD21	1:A:656:PHE:HD1	1.74	0.53
1:A:1464:LEU:HD22	1:A:1465:ARG:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1481:ALA:O	1:A:1485:LEU:HG	2.08	0.53
1:C:121:VAL:N	1:C:838:TYR:O	2.42	0.53
1:C:996:SER:HA	1:C:999:PHE:CD2	2.43	0.53
1:C:1021:TYR:CE1	1:C:1041:ARG:HD2	2.44	0.53
1:C:1296:GLU:CD	1:C:1426:SER:HB2	2.33	0.53
1:C:1527:ARG:O	1:C:1531:THR:HG23	2.08	0.53
1:E:933:PHE:O	1:E:936:GLN:HG2	2.08	0.53
1:E:1851:LEU:HD11	1:E:1873:LYS:HD2	1.90	0.53
1:E:1873:LYS:HB2	1:E:1897:THR:OG1	2.08	0.53
2:F:84:LEU:HD13	2:F:120:ARG:NE	2.20	0.53
1:G:346:LEU:HD22	1:G:606:VAL:HG21	1.91	0.53
1:G:728:PHE:O	1:G:732:HIS:ND1	2.42	0.53
1:G:1684:VAL:O	1:G:1687:LEU:HG	2.09	0.53
1:G:1909:MET:CE	1:G:1974:PHE:HA	2.34	0.53
2:H:40:TYR:O	2:H:55:LEU:N	2.41	0.53
1:A:964:PHE:CE2	1:A:968:ILE:HD11	2.43	0.53
1:A:1510:LEU:O	1:A:1514:VAL:HG22	2.09	0.53
1:A:1720:TYR:O	1:C:1738:MET:SD	2.67	0.53
1:C:1292:LEU:HD21	1:C:1392:VAL:HG21	1.89	0.53
1:C:1873:LYS:HB2	1:C:1897:THR:OG1	2.08	0.53
1:E:550:LEU:HD11	1:E:590:PHE:HE1	1.74	0.53
1:E:996:SER:HA	1:E:999:PHE:CD2	2.43	0.53
1:E:1054:TYR:CE2	1:E:1109:LEU:HD13	2.44	0.53
1:E:1749:GLY:HA2	1:E:1774:PRO:C	2.34	0.53
1:G:1296:GLU:CD	1:G:1426:SER:HB2	2.33	0.53
1:G:1510:LEU:O	1:G:1514:VAL:HG22	2.08	0.53
1:G:1875:LEU:HB2	1:G:1895:GLU:HB3	1.91	0.53
1:A:1590:GLN:CD	1:A:1596:ARG:HH21	2.17	0.53
1:A:1727:HIS:NE2	1:C:1734:PHE:HB3	2.23	0.53
1:A:1803:LYS:NZ	2:B:28:PHE:HZ	2.06	0.53
1:C:50:VAL:HG21	1:C:1018:ARG:HA	1.91	0.53
1:C:1416:VAL:O	1:C:1420:VAL:HG23	2.07	0.53
1:C:1851:LEU:HD11	1:C:1873:LYS:HD2	1.90	0.53
1:E:56:PHE:HB2	1:E:1014:PHE:CE2	2.41	0.53
1:E:121:VAL:N	1:E:838:TYR:O	2.42	0.53
1:E:146:GLN:NE2	1:E:234:LEU:HA	2.23	0.53
1:E:1684:VAL:O	1:E:1687:LEU:HG	2.09	0.53
1:G:115:MET:HE3	1:G:778:HIS:NE2	2.23	0.53
1:G:152:GLN:HE21	1:G:1382:GLY:HA3	1.73	0.53
1:G:1053:HIS:HA	1:G:1055:VAL:HG22	1.91	0.53
1:G:1054:TYR:CE2	1:G:1109:LEU:HD13	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1152:TYR:O	1:G:1158:LYS:HE3	2.08	0.53
1:G:1481:ALA:O	1:G:1485:LEU:HG	2.08	0.53
1:G:1521:SER:OG	1:G:1524:HIS:ND1	2.20	0.53
1:G:1560:MET:O	1:G:1563:THR:OG1	2.22	0.53
1:A:1162:ALA:O	1:A:1165:TYR:N	2.40	0.53
1:C:93:ARG:NH2	1:C:507:PRO:HD2	2.23	0.53
1:C:213:GLU:O	1:C:216:ASP:HB3	2.09	0.53
1:C:277:ILE:HG21	1:C:342:LEU:HD23	1.89	0.53
1:C:1055:VAL:HG23	1:C:1056:THR:H	1.74	0.53
2:D:165:LEU:HD11	2:D:169:PHE:HE2	1.73	0.53
1:E:400:HIS:CE1	1:E:402:ALA:HB3	2.44	0.53
1:E:1053:HIS:HA	1:E:1055:VAL:HG22	1.91	0.53
1:E:1055:VAL:HG23	1:E:1056:THR:H	1.74	0.53
1:E:1292:LEU:HD21	1:E:1392:VAL:HG21	1.89	0.53
1:E:1369:LYS:HB3	1:E:1374:MET:SD	2.48	0.53
1:E:1617:ALA:HB3	1:E:1694:PHE:CE1	2.43	0.53
1:G:1369:LYS:HB3	1:G:1374:MET:SD	2.49	0.53
1:A:1043:GLU:HA	1:A:1046:ARG:HG3	1.90	0.53
1:A:1054:TYR:CE2	1:A:1109:LEU:HD13	2.44	0.53
1:A:1296:GLU:CD	1:A:1426:SER:HB2	2.33	0.53
1:A:1749:GLY:HA2	1:A:1774:PRO:C	2.34	0.53
1:C:124:HIS:HE1	1:C:126:ARG:HA	1.74	0.53
1:C:400:HIS:CE1	1:C:402:ALA:HB3	2.44	0.53
1:C:1423:SER:O	1:C:1428:GLN:NE2	2.42	0.53
1:C:1711:ILE:HA	1:C:1714:LEU:HD13	1.91	0.53
1:C:1875:LEU:HB2	1:C:1895:GLU:HB3	1.91	0.53
1:E:93:ARG:NH2	1:E:507:PRO:HD2	2.24	0.53
1:E:203:LEU:HB3	1:E:206:LEU:HD13	1.90	0.53
1:E:346:LEU:HD22	1:E:606:VAL:HG21	1.91	0.53
1:E:557:SER:HA	1:E:614:GLU:HA	1.90	0.53
1:E:634:LEU:HD21	1:E:656:PHE:HD1	1.74	0.53
1:E:1579:ILE:HG22	1:E:1886:LYS:NZ	2.24	0.53
1:E:1711:ILE:HA	1:E:1714:LEU:HD13	1.91	0.53
2:F:165:LEU:HD11	2:F:169:PHE:HE2	1.74	0.53
1:G:213:GLU:O	1:G:216:ASP:HB3	2.09	0.53
1:G:1021:TYR:CE1	1:G:1041:ARG:HD2	2.43	0.53
1:G:2006:ASN:O	1:G:2010:LEU:HG	2.09	0.53
1:G:2012:GLU:HA	1:G:2015:GLN:OE1	2.08	0.53
1:A:1499:PHE:O	1:A:1503:LYS:N	2.32	0.53
2:B:165:LEU:HD11	2:B:169:PHE:HE2	1.73	0.53
1:C:1423:SER:O	1:C:1426:SER:OG	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1848:ARG:HG3	1:C:1878:THR:H	1.74	0.53
1:E:721:ASP:HB3	1:E:724:LEU:HB2	1.92	0.53
1:E:1423:SER:O	1:E:1426:SER:OG	2.26	0.53
1:E:2012:GLU:HA	1:E:2015:GLN:OE1	2.08	0.53
1:G:996:SER:HA	1:G:999:PHE:CD2	2.43	0.53
1:G:1055:VAL:HG23	1:G:1056:THR:H	1.74	0.53
1:G:1423:SER:O	1:G:1428:GLN:NE2	2.42	0.53
1:G:1464:LEU:HD22	1:G:1465:ARG:HD2	1.90	0.53
1:G:1873:LYS:HB2	1:G:1897:THR:OG1	2.08	0.53
1:G:1943:ASN:HD22	2:H:36:VAL:C	2.17	0.53
1:G:1962:LYS:O	1:G:1966:HIS:ND1	2.41	0.53
1:C:550:LEU:HD11	1:C:590:PHE:HE1	1.74	0.52
1:C:1767:GLN:HG3	1:C:1890:ARG:HH22	1.74	0.52
1:C:2006:ASN:O	1:C:2010:LEU:HG	2.09	0.52
1:E:213:GLU:O	1:E:216:ASP:HB3	2.09	0.52
1:E:1021:TYR:CE1	1:E:1041:ARG:HD2	2.43	0.52
1:E:1590:GLN:CD	1:E:1596:ARG:HH21	2.17	0.52
1:G:588:VAL:O	1:G:622:HIS:ND1	2.35	0.52
1:G:632:HIS:CD2	1:G:686:SER:HB2	2.45	0.52
1:G:785:ARG:HH21	1:G:789:ARG:HH11	1.57	0.52
1:A:204:PRO:O	1:A:207:LEU:HG	2.08	0.52
1:A:785:ARG:HH21	1:A:789:ARG:HH11	1.57	0.52
1:A:1168:LEU:HA	1:A:1171:ILE:HB	1.91	0.52
1:A:1873:LYS:HB2	1:A:1897:THR:OG1	2.08	0.52
1:C:933:PHE:O	1:C:936:GLN:HG2	2.08	0.52
1:C:1499:PHE:O	1:C:1503:LYS:HG3	2.10	0.52
2:D:112:LEU:HB3	2:D:154:TYR:HD1	1.74	0.52
1:E:124:HIS:HE1	1:E:126:ARG:HA	1.74	0.52
1:E:775:PHE:HD2	1:E:777:HIS:CE1	2.27	0.52
1:E:1464:LEU:HD22	1:E:1465:ARG:HD2	1.90	0.52
1:E:1892:CYS:SG	1:E:1893:HIS:ND1	2.79	0.52
1:E:2006:ASN:O	1:E:2010:LEU:HG	2.09	0.52
2:F:112:LEU:HB3	2:F:154:TYR:HD1	1.74	0.52
1:G:577:MET:HE1	1:G:634:LEU:HB2	1.90	0.52
1:G:1499:PHE:O	1:G:1503:LYS:HG3	2.10	0.52
1:G:1617:ALA:HB3	1:G:1694:PHE:CE1	2.43	0.52
1:G:1711:ILE:HA	1:G:1714:LEU:HD13	1.91	0.52
1:A:121:VAL:N	1:A:838:TYR:O	2.42	0.52
1:A:346:LEU:HD22	1:A:606:VAL:HG21	1.90	0.52
1:A:1152:TYR:O	1:A:1158:LYS:HE3	2.08	0.52
1:C:55:ASP:O	1:C:55:ASP:OD2	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:343:GLU:OE1	1:C:616:TYR:OH	2.25	0.52
1:C:1684:VAL:O	1:C:1687:LEU:HG	2.09	0.52
1:E:728:PHE:O	1:E:732:HIS:ND1	2.42	0.52
1:E:1556:PHE:HA	1:E:1559:HIS:ND1	2.25	0.52
1:G:121:VAL:N	1:G:838:TYR:O	2.42	0.52
1:G:775:PHE:HD2	1:G:777:HIS:CE1	2.27	0.52
1:G:1054:TYR:HA	1:G:1057:LEU:HB2	1.91	0.52
1:G:1168:LEU:HA	1:G:1171:ILE:HB	1.91	0.52
1:G:1753:ARG:HH22	1:G:1821:GLN:HG2	1.74	0.52
1:A:587:PRO:HG3	1:A:600:ARG:HD3	1.91	0.52
1:A:1848:ARG:HG3	1:A:1878:THR:H	1.74	0.52
2:B:8:VAL:O	2:B:16:LYS:NZ	2.41	0.52
1:C:728:PHE:O	1:C:732:HIS:ND1	2.42	0.52
1:C:785:ARG:HH21	1:C:789:ARG:HH11	1.57	0.52
1:C:1021:TYR:OH	1:C:1045:THR:OG1	2.00	0.52
1:C:1053:HIS:HA	1:C:1055:VAL:HG22	1.91	0.52
1:C:1585:ILE:O	1:C:1596:ARG:NH1	2.31	0.52
1:C:1749:GLY:HA2	1:C:1774:PRO:C	2.34	0.52
1:E:1054:TYR:HA	1:E:1057:LEU:HB2	1.91	0.52
1:E:1584:ARG:NH1	1:E:1584:ARG:O	2.43	0.52
1:G:1749:GLY:HA2	1:G:1774:PRO:C	2.34	0.52
1:A:295:ASN:HD21	1:A:618:GLU:HB3	1.75	0.52
1:A:775:PHE:HD2	1:A:777:HIS:CE1	2.27	0.52
1:C:775:PHE:HD2	1:C:777:HIS:CE1	2.27	0.52
1:C:1391:VAL:O	1:C:1395:THR:HG23	2.10	0.52
1:C:1556:PHE:HA	1:C:1559:HIS:ND1	2.24	0.52
1:C:1590:GLN:CD	1:C:1596:ARG:HH21	2.17	0.52
1:E:287:ARG:NH1	1:E:333:SER:OG	2.40	0.52
1:E:587:PRO:HG3	1:E:600:ARG:HD3	1.91	0.52
1:E:1582:MET:HE2	1:E:1603:MET:CG	2.39	0.52
1:G:343:GLU:OE1	1:G:616:TYR:OH	2.25	0.52
1:G:1040:LEU:HA	1:G:1043:GLU:OE1	2.10	0.52
1:G:1052:GLU:OE2	1:G:1151:ARG:NH1	2.34	0.52
1:G:1556:PHE:HA	1:G:1559:HIS:ND1	2.25	0.52
1:G:1585:ILE:O	1:G:1596:ARG:NH1	2.31	0.52
1:G:1590:GLN:CD	1:G:1596:ARG:HH21	2.17	0.52
2:H:165:LEU:HD11	2:H:169:PHE:HE2	1.74	0.52
1:A:124:HIS:HE1	1:A:126:ARG:HA	1.74	0.52
1:A:400:HIS:CE1	1:A:402:ALA:HB3	2.44	0.52
1:A:1714:LEU:H	1:A:1714:LEU:HD12	1.75	0.52
2:B:40:TYR:O	2:B:55:LEU:N	2.41	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:826:ARG:HB3	1:C:828:HIS:CD2	2.45	0.52
1:C:1464:LEU:HD22	1:C:1465:ARG:HD2	1.90	0.52
1:C:1584:ARG:NH1	1:C:1584:ARG:O	2.43	0.52
1:C:1753:ARG:HH22	1:C:1821:GLN:HG2	1.75	0.52
2:D:132:LYS:HZ2	2:D:134:LEU:HD13	1.75	0.52
1:E:55:ASP:O	1:E:55:ASP:OD2	2.27	0.52
1:E:632:HIS:CD2	1:E:686:SER:HB2	2.45	0.52
1:E:1168:LEU:HA	1:E:1171:ILE:HB	1.91	0.52
1:E:1666:SER:O	1:E:1669:GLU:HG2	2.10	0.52
1:E:1714:LEU:H	1:E:1714:LEU:HD12	1.75	0.52
2:F:8:VAL:O	2:F:16:LYS:NZ	2.41	0.52
2:F:140:PRO:HA	2:F:143:LEU:HD13	1.92	0.52
1:G:295:ASN:HD21	1:G:618:GLU:HB3	1.75	0.52
1:G:1579:ILE:HG22	1:G:1886:LYS:NZ	2.24	0.52
1:A:1054:TYR:HA	1:A:1057:LEU:HB2	1.91	0.52
1:A:1059:LEU:HD11	1:A:1062:CYS:HB3	1.92	0.52
1:A:1255:ALA:HA	1:A:1258:LEU:HD12	1.92	0.52
1:A:1556:PHE:HA	1:A:1559:HIS:ND1	2.24	0.52
1:A:1740:GLN:NE2	1:A:1746:ARG:H	2.08	0.52
1:A:1875:LEU:HB2	1:A:1895:GLU:HB3	1.91	0.52
1:C:268:LEU:HG	1:C:496:LEU:HB2	1.92	0.52
1:C:632:HIS:CD2	1:C:686:SER:HB2	2.45	0.52
1:C:792:ILE:HG12	1:C:899:VAL:HG13	1.92	0.52
1:C:1999:TYR:HA	1:C:2002:GLU:HG3	1.92	0.52
2:D:16:LYS:HZ3	2:D:58:THR:N	2.07	0.52
1:E:63:ARG:NH1	1:E:1062:CYS:SG	2.79	0.52
1:E:1040:LEU:HA	1:E:1043:GLU:OE1	2.10	0.52
1:E:1176:LEU:HD21	1:E:1286:ASP:OD2	2.10	0.52
1:E:1255:ALA:HA	1:E:1258:LEU:HD12	1.92	0.52
1:G:1582:MET:HE2	1:G:1603:MET:CG	2.39	0.52
1:G:1584:ARG:NH1	1:G:1584:ARG:O	2.43	0.52
1:G:1740:GLN:NE2	1:G:1746:ARG:H	2.08	0.52
1:A:557:SER:HA	1:A:614:GLU:HA	1.90	0.52
1:A:769:PRO:O	1:A:773:VAL:HG23	2.10	0.52
1:A:1416:VAL:HG23	1:A:1417:LEU:HD22	1.90	0.52
1:A:2006:ASN:O	1:A:2010:LEU:HG	2.09	0.52
1:C:544:HIS:H	1:C:777:HIS:HE2	1.57	0.52
1:C:828:HIS:HA	1:C:932:TRP:CZ2	2.45	0.52
1:C:1054:TYR:CE2	1:C:1109:LEU:HD13	2.44	0.52
1:C:1579:ILE:HG22	1:C:1886:LYS:NZ	2.24	0.52
1:E:50:VAL:HG21	1:E:1018:ARG:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1055:VAL:HG23	1:E:1056:THR:N	2.25	0.52
1:E:1260:VAL:HG13	1:E:1261:LEU:HD22	1.92	0.52
1:G:124:HIS:HE1	1:G:126:ARG:HA	1.74	0.52
1:G:1114:LEU:HA	1:G:1117:LEU:HD12	1.92	0.52
1:A:1055:VAL:HG23	1:A:1056:THR:H	1.74	0.52
1:A:1176:LEU:HD21	1:A:1286:ASP:OD2	2.10	0.52
1:A:1582:MET:HE2	1:A:1603:MET:CG	2.39	0.52
1:A:1711:ILE:HA	1:A:1714:LEU:HD13	1.91	0.52
1:C:557:SER:HA	1:C:614:GLU:HA	1.90	0.52
1:C:1114:LEU:HA	1:C:1117:LEU:HD12	1.92	0.52
1:E:792:ILE:HG12	1:E:899:VAL:HG13	1.92	0.52
1:E:1423:SER:O	1:E:1428:GLN:NE2	2.42	0.52
1:E:1510:LEU:O	1:E:1514:VAL:HG22	2.09	0.52
1:G:334:PRO:O	1:G:400:HIS:NE2	2.41	0.52
1:G:544:HIS:H	1:G:777:HIS:HE2	1.57	0.52
1:G:826:ARG:HB3	1:G:828:HIS:CD2	2.45	0.52
1:G:1620:MET:HE2	1:G:1690:ALA:HB2	1.92	0.52
1:G:1687:LEU:HD12	1:G:1688:GLU:N	2.25	0.52
1:G:1871:LYS:HZ2	2:H:33:ILE:HD12	1.73	0.52
1:A:268:LEU:HG	1:A:496:LEU:HB2	1.92	0.52
1:A:721:ASP:HB3	1:A:724:LEU:HB2	1.91	0.52
1:A:826:ARG:HB3	1:A:828:HIS:CD2	2.45	0.52
1:A:828:HIS:HA	1:A:932:TRP:CZ2	2.45	0.52
1:A:1423:SER:O	1:A:1428:GLN:NE2	2.42	0.52
1:A:1650:ILE:HA	1:A:1705:GLU:OE2	2.10	0.52
1:A:1710:LEU:HG	1:A:1714:LEU:HD11	1.93	0.52
1:C:1055:VAL:HG23	1:C:1056:THR:N	2.25	0.52
1:C:1740:GLN:NE2	1:C:1746:ARG:H	2.08	0.52
1:E:828:HIS:HA	1:E:932:TRP:CZ2	2.45	0.52
1:E:1431:LEU:O	1:E:1434:GLN:HB2	2.10	0.52
1:E:1753:ARG:HH22	1:E:1821:GLN:HG2	1.75	0.52
1:G:400:HIS:CE1	1:G:402:ALA:HB3	2.44	0.52
1:G:1666:SER:O	1:G:1669:GLU:HG2	2.10	0.52
1:G:1848:ARG:HG3	1:G:1878:THR:H	1.74	0.52
1:A:55:ASP:OD2	1:A:55:ASP:O	2.27	0.51
1:A:128:GLN:HB3	1:A:134:TYR:HD1	1.75	0.51
1:A:728:PHE:O	1:A:732:HIS:ND1	2.42	0.51
1:A:1431:LEU:O	1:A:1434:GLN:HB2	2.10	0.51
1:A:1579:ILE:HG22	1:A:1886:LYS:NZ	2.24	0.51
1:C:63:ARG:NH1	1:C:1062:CYS:SG	2.79	0.51
1:C:572:VAL:O	1:C:604:THR:OG1	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1582:MET:HE2	1:C:1603:MET:CG	2.39	0.51
1:C:1650:ILE:HA	1:C:1705:GLU:OE2	2.10	0.51
1:E:1008:VAL:O	1:E:1010:ARG:HD3	2.11	0.51
1:G:1391:VAL:O	1:G:1395:THR:HG23	2.10	0.51
1:G:1650:ILE:HA	1:G:1705:GLU:OE2	2.10	0.51
1:A:550:LEU:HD11	1:A:590:PHE:HE1	1.74	0.51
1:A:1565:THR:O	1:A:1568:MET:HG2	2.11	0.51
1:A:1584:ARG:NH1	1:A:1584:ARG:O	2.43	0.51
1:A:1734:PHE:HE2	1:C:1724:ALA:HA	1.74	0.51
1:C:115:MET:HE3	1:C:778:HIS:CE1	2.46	0.51
1:C:573:ARG:NH1	1:C:638:TYR:OH	2.44	0.51
1:C:660:PRO:HD3	1:C:690:PRO:HD2	1.93	0.51
1:E:1059:LEU:HD11	1:E:1062:CYS:HB3	1.92	0.51
1:E:1416:VAL:HG23	1:E:1417:LEU:HD22	1.90	0.51
1:E:1687:LEU:HD12	1:E:1688:GLU:N	2.25	0.51
1:E:1767:GLN:HG3	1:E:1890:ARG:HH22	1.74	0.51
1:G:128:GLN:HB3	1:G:134:TYR:HD1	1.76	0.51
1:G:150:PRO:HG3	1:G:226:HIS:CE1	2.40	0.51
1:G:721:ASP:HB3	1:G:724:LEU:HB2	1.92	0.51
1:G:1714:LEU:H	1:G:1714:LEU:HD12	1.75	0.51
2:H:112:LEU:HB3	2:H:154:TYR:HD1	1.74	0.51
2:H:140:PRO:HA	2:H:143:LEU:HD13	1.92	0.51
1:A:203:LEU:HB3	1:A:206:LEU:HD13	1.91	0.51
1:A:544:HIS:H	1:A:777:HIS:HE2	1.57	0.51
1:C:203:LEU:HB3	1:C:206:LEU:HD13	1.90	0.51
1:C:718:HIS:CG	1:C:719:PRO:HD2	2.46	0.51
1:C:1582:MET:HE2	1:C:1603:MET:HG2	1.92	0.51
1:C:1714:LEU:HD12	1:C:1714:LEU:H	1.75	0.51
1:E:263:VAL:HG12	1:E:500:ILE:HG22	1.92	0.51
1:E:785:ARG:HH21	1:E:789:ARG:HH11	1.57	0.51
1:E:1499:PHE:O	1:E:1503:LYS:N	2.32	0.51
1:E:1650:ILE:HA	1:E:1705:GLU:OE2	2.10	0.51
1:E:1740:GLN:NE2	1:E:1746:ARG:H	2.08	0.51
1:E:1848:ARG:HG3	1:E:1878:THR:H	1.74	0.51
1:G:115:MET:HE3	1:G:778:HIS:CE1	2.46	0.51
1:G:792:ILE:HG12	1:G:899:VAL:HG13	1.92	0.51
1:G:1892:CYS:SG	1:G:1893:HIS:ND1	2.79	0.51
1:A:1467:LEU:HA	1:A:1470:CYS:HB2	1.93	0.51
1:A:1499:PHE:O	1:A:1503:LYS:HG3	2.10	0.51
1:A:1687:LEU:HD12	1:A:1688:GLU:N	2.25	0.51
1:C:1040:LEU:HA	1:C:1043:GLU:OE1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1054:TYR:HA	1:C:1057:LEU:HB2	1.91	0.51
1:E:544:HIS:H	1:E:777:HIS:HE2	1.57	0.51
1:E:573:ARG:NH1	1:E:638:TYR:OH	2.44	0.51
1:E:1582:MET:HE2	1:E:1603:MET:HG2	1.92	0.51
1:E:1875:LEU:HB2	1:E:1895:GLU:HB3	1.91	0.51
1:G:93:ARG:NH2	1:G:507:PRO:HD2	2.24	0.51
1:G:244:VAL:HB	1:G:246:ARG:HD2	1.93	0.51
1:G:718:HIS:CG	1:G:719:PRO:HD2	2.46	0.51
1:G:1055:VAL:HG23	1:G:1056:THR:N	2.24	0.51
1:G:1439:THR:OG1	1:G:1440:GLN:N	2.44	0.51
1:G:1767:GLN:HG3	1:G:1890:ARG:HH22	1.74	0.51
1:A:244:VAL:HB	1:A:246:ARG:HD2	1.92	0.51
1:A:1040:LEU:HA	1:A:1043:GLU:OE1	2.10	0.51
1:A:1753:ARG:HH22	1:A:1821:GLN:HG2	1.74	0.51
1:C:235:TYR:CG	1:C:236:PRO:HD2	2.46	0.51
1:C:914:LEU:O	1:C:917:VAL:HB	2.11	0.51
1:C:1255:ALA:HA	1:C:1258:LEU:HD12	1.92	0.51
1:C:1710:LEU:HG	1:C:1714:LEU:HD11	1.92	0.51
1:E:660:PRO:HD3	1:E:690:PRO:HD2	1.92	0.51
1:E:728:PHE:CE2	1:E:775:PHE:HE1	2.29	0.51
1:E:1499:PHE:O	1:E:1503:LYS:HG3	2.10	0.51
1:G:287:ARG:NH1	1:G:333:SER:OG	2.40	0.51
1:G:550:LEU:HD11	1:G:590:PHE:HE1	1.74	0.51
1:G:828:HIS:HA	1:G:932:TRP:CZ2	2.45	0.51
1:G:1587:ARG:C	1:G:1596:ARG:HH22	2.19	0.51
1:A:115:MET:HE3	1:A:778:HIS:CE1	2.46	0.51
1:A:235:TYR:CG	1:A:236:PRO:HD2	2.46	0.51
1:A:718:HIS:CG	1:A:719:PRO:HD2	2.45	0.51
1:A:1055:VAL:HG23	1:A:1056:THR:N	2.25	0.51
1:A:1114:LEU:HA	1:A:1117:LEU:HD12	1.92	0.51
1:A:1620:MET:HE2	1:A:1690:ALA:HB2	1.92	0.51
1:A:1727:HIS:CG	1:A:1731:GLN:HE22	2.29	0.51
1:A:1767:GLN:HG3	1:A:1890:ARG:HH22	1.74	0.51
1:A:1999:TYR:HA	1:A:2002:GLU:HG3	1.92	0.51
1:C:721:ASP:HB3	1:C:724:LEU:HB2	1.92	0.51
1:C:1431:LEU:O	1:C:1434:GLN:HB2	2.10	0.51
1:C:1666:SER:O	1:C:1669:GLU:HG2	2.10	0.51
1:C:1687:LEU:HD12	1:C:1688:GLU:N	2.25	0.51
1:E:769:PRO:O	1:E:773:VAL:HG23	2.10	0.51
1:G:587:PRO:HG3	1:G:600:ARG:HD3	1.91	0.51
1:G:728:PHE:CE2	1:G:775:PHE:HE1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1669:GLU:HG3	1:G:1669:GLU:O	2.11	0.51
1:A:50:VAL:HG21	1:A:1018:ARG:HA	1.91	0.51
1:A:914:LEU:O	1:A:917:VAL:HB	2.11	0.51
1:C:287:ARG:HH22	1:C:334:PRO:HD2	1.76	0.51
1:C:728:PHE:CE2	1:C:775:PHE:HE1	2.29	0.51
1:C:980:ILE:HG22	1:C:1027:ARG:NE	2.18	0.51
1:C:1796:ASP:O	1:C:1817:LYS:HE3	2.11	0.51
1:E:128:GLN:HB3	1:E:134:TYR:HD1	1.76	0.51
1:E:235:TYR:CG	1:E:236:PRO:HD2	2.46	0.51
1:E:826:ARG:HB3	1:E:828:HIS:CD2	2.45	0.51
1:E:1620:MET:HE2	1:E:1690:ALA:HB2	1.92	0.51
1:E:1720:TYR:HB3	1:G:1738:MET:HE1	1.90	0.51
1:G:914:LEU:O	1:G:917:VAL:HB	2.11	0.51
1:G:1059:LEU:HD11	1:G:1062:CYS:HB3	1.92	0.51
1:G:1582:MET:HE2	1:G:1603:MET:HG2	1.92	0.51
1:A:632:HIS:CD2	1:A:686:SER:HB2	2.45	0.51
1:A:1260:VAL:HG13	1:A:1261:LEU:HD22	1.92	0.51
1:C:587:PRO:HG3	1:C:600:ARG:HD3	1.91	0.51
1:C:792:ILE:HG23	1:C:797:ILE:HG12	1.93	0.51
1:C:1758:GLY:N	1:C:1765:ASP:OD1	2.44	0.51
1:C:1814:ASP:OD1	1:C:1817:LYS:HB3	2.11	0.51
2:D:140:PRO:HA	2:D:143:LEU:HD13	1.92	0.51
1:E:115:MET:HE3	1:E:778:HIS:CE1	2.46	0.51
1:E:295:ASN:HD21	1:E:618:GLU:HB3	1.75	0.51
1:E:1391:VAL:O	1:E:1395:THR:HG23	2.10	0.51
1:E:1758:GLY:N	1:E:1765:ASP:OD1	2.44	0.51
1:G:1740:GLN:HG2	1:G:1745:GLU:HB2	1.93	0.51
1:A:562:SER:HB2	1:A:701:ASP:HB2	1.93	0.51
1:A:1582:MET:HE2	1:A:1603:MET:HG2	1.92	0.51
1:A:1666:SER:O	1:A:1669:GLU:HG2	2.10	0.51
1:A:1669:GLU:HG3	1:A:1669:GLU:O	2.11	0.51
1:C:263:VAL:HG12	1:C:500:ILE:HG22	1.92	0.51
1:C:1587:ARG:C	1:C:1596:ARG:HH22	2.19	0.51
1:E:268:LEU:HG	1:E:496:LEU:HB2	1.92	0.51
1:E:914:LEU:O	1:E:917:VAL:HB	2.11	0.51
1:E:1467:LEU:HA	1:E:1470:CYS:HB2	1.92	0.51
1:E:1565:THR:O	1:E:1568:MET:HG2	2.11	0.51
1:E:1727:HIS:CG	1:E:1731:GLN:HE22	2.29	0.51
1:E:1820:ILE:HG23	1:E:1822:ILE:HD11	1.93	0.51
1:G:344:LYS:HE3	1:G:394:PHE:CG	2.46	0.51
1:G:573:ARG:NH1	1:G:638:TYR:OH	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:660:PRO:HD3	1:G:690:PRO:HD2	1.92	0.51
1:G:1091:PRO:HA	1:G:1094:THR:HB	1.93	0.51
1:G:1727:HIS:CG	1:G:1731:GLN:HE22	2.29	0.51
1:A:263:VAL:HG12	1:A:500:ILE:HG22	1.93	0.51
1:A:1796:ASP:O	1:A:1817:LYS:HE3	2.11	0.51
1:C:334:PRO:O	1:C:400:HIS:NE2	2.41	0.51
1:C:540:VAL:O	1:C:770:GLU:HG3	2.11	0.51
1:C:562:SER:HB2	1:C:701:ASP:HB2	1.93	0.51
1:C:1168:LEU:HA	1:C:1171:ILE:HB	1.91	0.51
1:C:1439:THR:OG1	1:C:1440:GLN:N	2.44	0.51
1:C:1620:MET:HE2	1:C:1690:ALA:HB2	1.92	0.51
1:C:1962:LYS:O	1:C:1966:HIS:ND1	2.41	0.51
2:D:40:TYR:O	2:D:55:LEU:N	2.41	0.51
1:G:1710:LEU:HG	1:G:1714:LEU:HD11	1.93	0.51
1:A:75:LEU:O	1:A:1056:THR:OG1	2.23	0.50
1:A:344:LYS:HE3	1:A:394:PHE:CG	2.46	0.50
1:A:403:ASN:O	1:G:407:SER:HB2	2.11	0.50
1:A:573:ARG:NH1	1:A:638:TYR:OH	2.44	0.50
1:A:1391:VAL:O	1:A:1395:THR:HG23	2.10	0.50
1:A:1820:ILE:HG23	1:A:1822:ILE:HD11	1.93	0.50
1:A:1963:LEU:O	1:A:1967:HIS:ND1	2.28	0.50
1:C:115:MET:HB3	1:C:778:HIS:CE1	2.47	0.50
1:C:128:GLN:HB3	1:C:134:TYR:HD1	1.75	0.50
1:C:1110:ALA:O	1:C:1114:LEU:HG	2.11	0.50
1:C:1434:GLN:HA	1:C:1437:LEU:HD12	1.93	0.50
1:C:1467:LEU:HA	1:C:1470:CYS:HB2	1.93	0.50
1:C:1740:GLN:HG2	1:C:1745:GLU:HB2	1.93	0.50
1:E:244:VAL:HB	1:E:246:ARG:HD2	1.92	0.50
1:E:390:TYR:O	1:E:391:ARG:NH1	2.44	0.50
1:E:562:SER:HB2	1:E:701:ASP:HB2	1.93	0.50
1:E:719:PRO:HG2	1:E:725:ASP:HB2	1.93	0.50
2:F:16:LYS:HZ3	2:F:58:THR:N	2.07	0.50
1:G:263:VAL:HG12	1:G:500:ILE:HG22	1.92	0.50
1:G:268:LEU:HG	1:G:496:LEU:HB2	1.92	0.50
1:G:540:VAL:O	1:G:770:GLU:HG3	2.11	0.50
1:G:1110:ALA:O	1:G:1114:LEU:HG	2.11	0.50
1:G:1796:ASP:O	1:G:1817:LYS:HE3	2.11	0.50
1:G:1803:LYS:HZ2	2:H:160:LEU:HG	1.75	0.50
1:A:287:ARG:HH22	1:A:334:PRO:HD2	1.76	0.50
1:A:1008:VAL:O	1:A:1010:ARG:HD3	2.10	0.50
1:A:1091:PRO:HA	1:A:1094:THR:HB	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1296:GLU:OE2	1:A:1426:SER:HB2	2.12	0.50
1:A:1410:GLU:H	1:A:1410:GLU:CD	2.18	0.50
1:A:1727:HIS:CD2	1:C:1734:PHE:CD2	2.99	0.50
1:A:1814:ASP:OD1	1:A:1817:LYS:HB3	2.11	0.50
2:B:112:LEU:HB3	2:B:154:TYR:HD1	1.74	0.50
1:C:344:LYS:HE3	1:C:394:PHE:CG	2.46	0.50
1:C:1176:LEU:HD21	1:C:1286:ASP:OD2	2.10	0.50
1:C:1260:VAL:HG13	1:C:1261:LEU:HD22	1.92	0.50
1:C:1389:SER:HB2	1:C:1432:PHE:CZ	2.47	0.50
1:C:1477:ILE:H	1:C:1477:ILE:HD12	1.76	0.50
1:C:1800:GLU:OE1	1:C:1800:GLU:N	2.45	0.50
1:E:1114:LEU:HA	1:E:1117:LEU:HD12	1.92	0.50
1:E:1525:LEU:O	1:E:1529:LEU:HG	2.11	0.50
1:G:235:TYR:CG	1:G:236:PRO:HD2	2.46	0.50
1:G:287:ARG:HH22	1:G:334:PRO:HD2	1.76	0.50
1:G:390:TYR:O	1:G:391:ARG:NH1	2.44	0.50
1:G:1296:GLU:OE2	1:G:1426:SER:HB2	2.12	0.50
1:A:792:ILE:HG12	1:A:899:VAL:HG13	1.92	0.50
1:A:1143:LEU:HD12	1:A:1259:TRP:HZ3	1.76	0.50
1:A:1476:THR:HG23	1:A:1477:ILE:HD12	1.93	0.50
1:A:1524:HIS:HA	1:A:1527:ARG:HG2	1.93	0.50
1:A:1724:ALA:CB	1:C:1738:MET:SD	2.96	0.50
1:A:1758:GLY:N	1:A:1765:ASP:OD1	2.44	0.50
2:B:10:GLY:C	2:B:97:TRP:HZ3	2.19	0.50
1:C:1162:ALA:O	1:C:1165:TYR:N	2.39	0.50
1:C:1565:THR:O	1:C:1568:MET:HG2	2.11	0.50
1:E:343:GLU:OE1	1:E:616:TYR:OH	2.25	0.50
1:E:1143:LEU:HD12	1:E:1259:TRP:HZ3	1.76	0.50
1:E:1439:THR:OG1	1:E:1440:GLN:N	2.44	0.50
1:E:1587:ARG:C	1:E:1596:ARG:HH22	2.19	0.50
1:E:1669:GLU:O	1:E:1669:GLU:HG3	2.11	0.50
1:E:1800:GLU:OE1	1:E:1800:GLU:N	2.44	0.50
1:G:1176:LEU:HD21	1:G:1286:ASP:OD2	2.10	0.50
1:G:1467:LEU:HA	1:G:1470:CYS:HB2	1.93	0.50
1:G:1476:THR:HG23	1:G:1477:ILE:HD12	1.94	0.50
1:G:1700:TYR:HD2	1:G:1737:ILE:HD11	1.77	0.50
1:G:1703:VAL:HG22	1:G:1707:TYR:CZ	2.47	0.50
1:G:1814:ASP:OD1	1:G:1817:LYS:HB3	2.11	0.50
1:G:1875:LEU:C	1:G:1876:LEU:HD12	2.36	0.50
1:A:348:GLN:NE2	1:A:644:PRO:HD3	2.27	0.50
1:A:540:VAL:O	1:A:770:GLU:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:660:PRO:HD3	1:A:690:PRO:HD2	1.93	0.50
1:A:792:ILE:HG23	1:A:797:ILE:HG12	1.93	0.50
1:A:1718:ARG:HH22	1:C:1838:VAL:HG11	1.75	0.50
1:A:1875:LEU:C	1:A:1876:LEU:HD12	2.36	0.50
2:B:140:PRO:HA	2:B:143:LEU:HD13	1.92	0.50
1:C:215:VAL:HG12	1:C:219:ASN:HD21	1.77	0.50
1:C:295:ASN:HD21	1:C:618:GLU:HB3	1.75	0.50
1:C:719:PRO:HG2	1:C:725:ASP:HB2	1.93	0.50
1:C:1008:VAL:O	1:C:1010:ARG:HD3	2.11	0.50
1:C:1727:HIS:CG	1:C:1731:GLN:HE22	2.29	0.50
1:E:1027:ARG:HH11	1:E:1031:SER:HB2	1.77	0.50
1:E:1524:HIS:HA	1:E:1527:ARG:HG2	1.94	0.50
1:E:1814:ASP:OD1	1:E:1817:LYS:HB3	2.11	0.50
1:G:769:PRO:O	1:G:773:VAL:HG23	2.10	0.50
1:G:1143:LEU:HD12	1:G:1259:TRP:HZ3	1.76	0.50
1:G:1439:THR:O	1:G:1443:LEU:HG	2.12	0.50
2:H:10:GLY:C	2:H:97:TRP:HZ3	2.19	0.50
1:A:1587:ARG:C	1:A:1596:ARG:HH22	2.19	0.50
1:A:1635:GLU:OE2	1:A:1637:HIS:ND1	2.45	0.50
1:C:769:PRO:O	1:C:773:VAL:HG23	2.10	0.50
1:C:1120:ALA:O	1:C:1132:HIS:NE2	2.45	0.50
1:C:1437:LEU:C	1:C:1440:GLN:HE21	2.20	0.50
1:C:1525:LEU:O	1:C:1529:LEU:HG	2.11	0.50
1:C:1556:PHE:O	1:C:1559:HIS:HB2	2.12	0.50
1:E:115:MET:HB3	1:E:778:HIS:CE1	2.47	0.50
1:E:540:VAL:O	1:E:770:GLU:HG3	2.11	0.50
1:E:718:HIS:CG	1:E:719:PRO:HD2	2.45	0.50
1:E:1120:ALA:O	1:E:1132:HIS:NE2	2.45	0.50
1:E:1389:SER:HB2	1:E:1432:PHE:CZ	2.47	0.50
1:E:1434:GLN:HA	1:E:1437:LEU:HD12	1.93	0.50
1:E:1520:PHE:HE2	1:E:1522:GLU:HB3	1.77	0.50
1:E:1635:GLU:OE2	1:E:1637:HIS:ND1	2.45	0.50
1:E:1878:THR:OG1	1:E:1880:HIS:O	2.24	0.50
1:E:1999:TYR:HA	1:E:2002:GLU:HG3	1.92	0.50
1:G:1260:VAL:HG13	1:G:1261:LEU:HD22	1.92	0.50
1:G:1434:GLN:HA	1:G:1437:LEU:HD12	1.93	0.50
1:G:1524:HIS:HA	1:G:1527:ARG:HG2	1.93	0.50
1:G:1800:GLU:N	1:G:1800:GLU:OE1	2.45	0.50
1:A:334:PRO:O	1:A:400:HIS:NE2	2.41	0.50
1:A:336:ILE:HD11	1:A:402:ALA:HB2	1.93	0.50
1:A:719:PRO:HG2	1:A:725:ASP:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:728:PHE:CE2	1:A:775:PHE:HE1	2.29	0.50
1:A:1434:GLN:HA	1:A:1437:LEU:HD12	1.93	0.50
1:A:1573:GLU:N	1:A:1578:LEU:HD11	2.27	0.50
1:A:1999:TYR:HE2	2:B:67:LEU:HA	1.77	0.50
1:C:244:VAL:HB	1:C:246:ARG:HD2	1.93	0.50
1:C:336:ILE:HD11	1:C:402:ALA:HB2	1.93	0.50
1:C:389:ARG:HD3	1:C:603:PHE:CE2	2.47	0.50
1:C:1520:PHE:HE2	1:C:1522:GLU:HB3	1.77	0.50
1:C:1522:GLU:OE1	1:C:1522:GLU:N	2.32	0.50
1:C:1820:ILE:HG23	1:C:1822:ILE:HD11	1.93	0.50
1:E:336:ILE:HD11	1:E:402:ALA:HB2	1.93	0.50
1:E:910:GLU:O	1:E:914:LEU:HG	2.12	0.50
1:E:1090:ASP:OD2	1:E:1092:LYS:HB2	2.12	0.50
1:E:1110:ALA:O	1:E:1114:LEU:HG	2.11	0.50
1:E:1151:ARG:HH21	1:E:1152:TYR:HH	1.55	0.50
1:E:1296:GLU:OE2	1:E:1426:SER:HB2	2.12	0.50
1:E:1403:VAL:HA	1:E:1409:ARG:NH1	2.27	0.50
1:E:1573:GLU:N	1:E:1578:LEU:HD11	2.27	0.50
1:E:1703:VAL:HG22	1:E:1707:TYR:CZ	2.47	0.50
1:E:1796:ASP:O	1:E:1817:LYS:HE3	2.11	0.50
2:F:10:GLY:C	2:F:97:TRP:HZ3	2.19	0.50
1:G:348:GLN:NE2	1:G:644:PRO:HD3	2.27	0.50
1:G:1431:LEU:O	1:G:1434:GLN:HB2	2.10	0.50
1:G:1565:THR:O	1:G:1568:MET:HG2	2.11	0.50
1:A:402:ALA:HB1	1:A:446:PHE:CE1	2.47	0.50
1:A:1909:MET:CE	1:A:1974:PHE:HA	2.34	0.50
1:C:1059:LEU:HD11	1:C:1062:CYS:HB3	1.92	0.50
1:C:1143:LEU:HD12	1:C:1259:TRP:HZ3	1.76	0.50
1:C:1803:LYS:HZ3	2:D:28:PHE:HZ	1.54	0.50
2:D:10:GLY:C	2:D:97:TRP:HZ3	2.19	0.50
1:E:1693:TYR:O	1:E:1697:GLY:N	2.29	0.50
1:E:1875:LEU:C	1:E:1876:LEU:HD12	2.36	0.50
1:G:115:MET:HB3	1:G:778:HIS:CE1	2.47	0.50
1:G:400:HIS:O	1:G:403:ASN:HB2	2.12	0.50
1:G:719:PRO:HG2	1:G:725:ASP:HB2	1.93	0.50
1:G:1008:VAL:O	1:G:1010:ARG:HD3	2.11	0.50
1:G:1525:LEU:O	1:G:1529:LEU:HG	2.11	0.50
1:G:1573:GLU:N	1:G:1578:LEU:HD11	2.27	0.50
1:A:143:ARG:HA	1:A:146:GLN:HB2	1.94	0.50
1:A:400:HIS:O	1:A:403:ASN:HB2	2.12	0.50
1:A:1556:PHE:O	1:A:1559:HIS:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1837:ARG:HA	1:A:1842:ASP:OD2	2.12	0.50
1:A:1846:GLY:HA2	1:A:1881:ALA:HB1	1.94	0.50
1:C:1837:ARG:HA	1:C:1842:ASP:OD2	2.12	0.50
1:E:215:VAL:HG12	1:E:219:ASN:HD21	1.77	0.50
1:E:389:ARG:HD3	1:E:603:PHE:CE2	2.47	0.50
1:E:402:ALA:HB1	1:E:446:PHE:CE1	2.47	0.50
1:E:1091:PRO:HA	1:E:1094:THR:HB	1.93	0.50
1:E:1477:ILE:H	1:E:1477:ILE:HD12	1.76	0.50
1:E:1700:TYR:HD2	1:E:1737:ILE:HD11	1.77	0.50
1:G:1255:ALA:HA	1:G:1258:LEU:HD12	1.92	0.50
1:G:1999:TYR:HA	1:G:2002:GLU:HG3	1.92	0.50
1:A:1110:ALA:O	1:A:1114:LEU:HG	2.11	0.50
1:A:1403:VAL:HA	1:A:1409:ARG:NH1	2.27	0.50
1:A:1439:THR:OG1	1:A:1440:GLN:N	2.44	0.50
1:A:1477:ILE:HD12	1:A:1477:ILE:H	1.76	0.50
1:A:1587:ARG:HE	1:A:1590:GLN:NE2	2.10	0.50
1:A:1962:LYS:O	1:A:1966:HIS:ND1	2.41	0.50
1:C:1296:GLU:OE2	1:C:1426:SER:HB2	2.12	0.50
1:C:1439:THR:O	1:C:1443:LEU:HG	2.12	0.50
1:E:344:LYS:HE3	1:E:394:PHE:CG	2.46	0.50
1:E:1143:LEU:HD12	1:E:1259:TRP:CZ3	2.47	0.50
1:E:1622:HIS:HA	1:E:1654:VAL:HG23	1.94	0.50
1:G:215:VAL:HG12	1:G:219:ASN:HD21	1.77	0.50
1:G:1389:SER:HB2	1:G:1432:PHE:CZ	2.47	0.50
1:G:1477:ILE:HD12	1:G:1477:ILE:H	1.76	0.50
1:G:1556:PHE:O	1:G:1559:HIS:HB2	2.12	0.50
1:A:389:ARG:HD3	1:A:603:PHE:CE2	2.47	0.49
1:A:1027:ARG:HH11	1:A:1031:SER:HB2	1.77	0.49
1:A:1439:THR:O	1:A:1443:LEU:HG	2.12	0.49
1:C:1587:ARG:HE	1:C:1590:GLN:NE2	2.10	0.49
1:E:635:PHE:CD1	1:E:657:THR:HG23	2.44	0.49
1:E:1052:GLU:OE2	1:E:1151:ARG:NH1	2.34	0.49
1:E:1710:LEU:HG	1:E:1714:LEU:HD11	1.92	0.49
1:A:400:HIS:HE1	1:A:402:ALA:HB3	1.77	0.49
1:A:1090:ASP:OD2	1:A:1092:LYS:HB2	2.11	0.49
1:A:1525:LEU:O	1:A:1529:LEU:HG	2.11	0.49
1:C:143:ARG:HG2	1:C:147:LYS:NZ	2.27	0.49
1:C:1091:PRO:HA	1:C:1094:THR:HB	1.93	0.49
1:C:1622:HIS:HA	1:C:1654:VAL:HG23	1.94	0.49
1:C:1635:GLU:OE2	1:C:1637:HIS:ND1	2.45	0.49
1:C:1669:GLU:HG3	1:C:1669:GLU:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:980:ILE:HG22	1:E:1027:ARG:NE	2.18	0.49
1:E:1740:GLN:HG2	1:E:1745:GLU:HB2	1.93	0.49
1:E:1856:PHE:CE1	1:E:1872:ARG:HD3	2.47	0.49
1:A:910:GLU:O	1:A:914:LEU:HG	2.12	0.49
1:A:1120:ALA:O	1:A:1132:HIS:NE2	2.45	0.49
1:A:1800:GLU:OE1	1:A:1800:GLU:N	2.44	0.49
1:C:1856:PHE:CE1	1:C:1872:ARG:HD3	2.47	0.49
1:E:287:ARG:HH22	1:E:334:PRO:HD2	1.76	0.49
1:E:580:GLU:OE1	1:E:685:TYR:N	2.46	0.49
1:E:1262:LYS:HG2	1:E:1263:ASN:N	2.27	0.49
1:E:1439:THR:O	1:E:1443:LEU:HG	2.12	0.49
1:E:1804:ASP:OD1	1:E:1805:SER:N	2.45	0.49
1:E:1846:GLY:HA2	1:E:1881:ALA:HB1	1.94	0.49
1:G:389:ARG:HD3	1:G:603:PHE:CE2	2.47	0.49
1:G:580:GLU:OE1	1:G:685:TYR:N	2.46	0.49
1:G:1027:ARG:HH11	1:G:1031:SER:HB2	1.77	0.49
1:G:1437:LEU:C	1:G:1440:GLN:HE21	2.20	0.49
1:A:1143:LEU:HD12	1:A:1259:TRP:CZ3	2.47	0.49
1:A:1389:SER:HB2	1:A:1432:PHE:CZ	2.47	0.49
1:A:1677:HIS:O	1:A:1679:THR:N	2.40	0.49
1:A:1979:LYS:HA	1:A:1982:GLU:OE1	2.13	0.49
1:C:1090:ASP:OD2	1:C:1092:LYS:HB2	2.11	0.49
1:C:1875:LEU:C	1:C:1876:LEU:HD12	2.36	0.49
1:E:249:ARG:HG2	1:E:838:TYR:OH	2.13	0.49
2:F:40:TYR:O	2:F:55:LEU:N	2.41	0.49
1:G:336:ILE:HD11	1:G:402:ALA:HB2	1.93	0.49
1:G:560:PHE:HB2	1:G:570:LEU:HD11	1.95	0.49
1:G:792:ILE:HG23	1:G:797:ILE:HG12	1.93	0.49
1:G:1120:ALA:O	1:G:1132:HIS:NE2	2.45	0.49
1:G:1392:VAL:O	1:G:1396:LEU:HD23	2.13	0.49
1:G:1622:HIS:HA	1:G:1654:VAL:HG23	1.94	0.49
1:G:1758:GLY:N	1:G:1765:ASP:OD1	2.44	0.49
1:A:215:VAL:HG12	1:A:219:ASN:HD21	1.77	0.49
1:A:1520:PHE:HE2	1:A:1522:GLU:HB3	1.77	0.49
1:A:1703:VAL:HG22	1:A:1707:TYR:CZ	2.47	0.49
1:A:1740:GLN:HG2	1:A:1745:GLU:HB2	1.93	0.49
1:A:1804:ASP:OD1	1:A:1805:SER:N	2.45	0.49
1:A:1856:PHE:CE1	1:A:1872:ARG:HD3	2.47	0.49
1:C:560:PHE:HB2	1:C:570:LEU:HD11	1.95	0.49
1:C:1804:ASP:OD1	1:C:1805:SER:N	2.46	0.49
1:E:726:LYS:HD3	1:E:760:SER:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1627:VAL:HG12	1:G:1683:LEU:HD11	1.95	0.49
1:G:1979:LYS:HA	1:G:1982:GLU:OE1	2.13	0.49
1:A:115:MET:HB3	1:A:778:HIS:CE1	2.47	0.49
1:A:132:ALA:HB3	1:A:1050:SER:OG	2.13	0.49
1:A:1262:LYS:HG2	1:A:1263:ASN:N	2.27	0.49
1:A:1700:TYR:HD2	1:A:1737:ILE:HD11	1.77	0.49
1:C:1027:ARG:HH11	1:C:1031:SER:HB2	1.77	0.49
1:C:1143:LEU:HD12	1:C:1259:TRP:CZ3	2.47	0.49
1:C:1703:VAL:HG22	1:C:1707:TYR:CZ	2.47	0.49
1:E:1556:PHE:O	1:E:1559:HIS:HB2	2.12	0.49
1:E:1731:GLN:HG3	1:G:1727:HIS:CE1	2.48	0.49
1:G:263:VAL:O	1:G:324:SER:HA	2.13	0.49
1:G:562:SER:HB2	1:G:701:ASP:HB2	1.93	0.49
1:G:726:LYS:HD3	1:G:760:SER:HB3	1.94	0.49
1:G:1403:VAL:HA	1:G:1409:ARG:NH1	2.27	0.49
1:G:1587:ARG:HE	1:G:1590:GLN:NE2	2.10	0.49
1:G:1909:MET:HE1	1:G:1974:PHE:CD1	2.46	0.49
1:A:1909:MET:HE1	1:A:1974:PHE:CD1	2.46	0.49
2:B:85:VAL:HB	2:B:129:LEU:HD11	1.95	0.49
1:C:580:GLU:OE1	1:C:685:TYR:N	2.46	0.49
1:C:588:VAL:HG23	1:C:621:LEU:HD12	1.94	0.49
1:C:1677:HIS:O	1:C:1679:THR:N	2.40	0.49
1:E:106:ASP:OD1	1:E:107:ALA:N	2.46	0.49
1:E:286:VAL:HG22	1:E:335:ASP:HB3	1.95	0.49
1:E:398:ALA:HB3	1:E:479:MET:SD	2.53	0.49
1:E:513:PRO:HD3	1:E:531:GLU:HG2	1.95	0.49
1:E:1810:LYS:HD2	1:E:1813:LEU:HB2	1.95	0.49
1:G:132:ALA:HB3	1:G:1050:SER:OG	2.13	0.49
1:G:1064:LEU:HD21	1:G:1102:PRO:O	2.13	0.49
1:A:55:ASP:CG	1:A:58:ASP:HB3	2.38	0.49
1:A:1052:GLU:OE2	1:A:1151:ARG:NH1	2.34	0.49
1:A:1650:ILE:O	1:A:1845:TYR:OH	2.31	0.49
1:C:286:VAL:HG22	1:C:335:ASP:HB3	1.95	0.49
1:C:390:TYR:O	1:C:391:ARG:NH1	2.44	0.49
1:C:400:HIS:O	1:C:403:ASN:HB2	2.12	0.49
1:C:910:GLU:HG2	1:C:911:GLU:CD	2.38	0.49
1:C:910:GLU:O	1:C:914:LEU:HG	2.12	0.49
1:C:1410:GLU:H	1:C:1410:GLU:CD	2.18	0.49
1:C:1524:HIS:HA	1:C:1527:ARG:HG2	1.93	0.49
1:C:1573:GLU:N	1:C:1578:LEU:HD11	2.27	0.49
1:C:1892:CYS:SG	1:C:1893:HIS:ND1	2.79	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1979:LYS:HA	1:C:1982:GLU:OE1	2.13	0.49
2:D:85:VAL:HB	2:D:129:LEU:HD11	1.95	0.49
1:E:55:ASP:CG	1:E:58:ASP:HB3	2.38	0.49
1:E:560:PHE:HB2	1:E:570:LEU:HD11	1.95	0.49
1:E:588:VAL:HB	1:E:622:HIS:ND1	2.28	0.49
1:E:1476:THR:HG23	1:E:1477:ILE:HD12	1.94	0.49
1:E:1934:LEU:HD21	1:E:1984:ALA:HB1	1.95	0.49
1:E:1999:TYR:OH	2:F:66:ARG:O	2.31	0.49
2:F:4:ILE:HD12	2:F:173:ILE:HD12	1.95	0.49
1:G:55:ASP:CG	1:G:58:ASP:HB3	2.38	0.49
1:G:1041:ARG:O	1:G:1044:PHE:HB3	2.13	0.49
1:G:1635:GLU:OE2	1:G:1637:HIS:ND1	2.45	0.49
1:G:1851:LEU:HB2	1:G:1875:LEU:HD23	1.94	0.49
1:A:286:VAL:HG22	1:A:335:ASP:HB3	1.95	0.49
1:A:580:GLU:OE1	1:A:685:TYR:N	2.46	0.49
1:A:1740:GLN:HE21	1:A:1746:ARG:H	1.61	0.49
1:E:588:VAL:HG23	1:E:621:LEU:HD12	1.94	0.49
1:E:1064:LEU:HD21	1:E:1102:PRO:O	2.13	0.49
1:E:1837:ARG:HA	1:E:1842:ASP:OD2	2.12	0.49
2:F:85:VAL:HB	2:F:129:LEU:HD11	1.95	0.49
1:G:143:ARG:HA	1:G:146:GLN:HB2	1.94	0.49
1:G:1090:ASP:OD2	1:G:1092:LYS:HB2	2.11	0.49
1:G:1288:LEU:HD13	1:G:1396:LEU:CD2	2.43	0.49
1:G:1433:LEU:O	1:G:1437:LEU:HG	2.13	0.49
1:G:1617:ALA:O	1:G:1621:VAL:HG23	2.13	0.49
1:G:1650:ILE:O	1:G:1845:TYR:OH	2.31	0.49
1:G:1804:ASP:OD1	1:G:1806:ASN:N	2.45	0.49
1:G:1837:ARG:HA	1:G:1842:ASP:OD2	2.12	0.49
1:A:263:VAL:O	1:A:324:SER:HA	2.13	0.49
1:A:390:TYR:CD2	1:A:606:VAL:HG11	2.48	0.49
1:A:398:ALA:HB3	1:A:479:MET:SD	2.53	0.49
1:A:910:GLU:HG2	1:A:911:GLU:CD	2.38	0.49
1:A:1041:ARG:O	1:A:1044:PHE:HB3	2.13	0.49
1:A:1437:LEU:C	1:A:1440:GLN:HE21	2.20	0.49
1:C:76:VAL:HB	1:C:1061:CYS:H	1.78	0.49
1:C:288:GLU:O	1:C:289:LYS:HG2	2.13	0.49
1:C:1650:ILE:O	1:C:1845:TYR:OH	2.31	0.49
1:C:1700:TYR:HD2	1:C:1737:ILE:HD11	1.77	0.49
1:C:1810:LYS:HD2	1:C:1813:LEU:HB2	1.95	0.49
1:E:143:ARG:HG2	1:E:147:LYS:NZ	2.27	0.49
1:E:907:LEU:HD22	1:E:945:HIS:CD2	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1907:GLU:HA	1:E:1910:GLN:HG2	1.95	0.49
1:E:1979:LYS:HA	1:E:1982:GLU:OE1	2.13	0.49
2:F:86:SER:O	2:F:89:SER:OG	2.25	0.49
1:G:143:ARG:HG2	1:G:147:LYS:NZ	2.28	0.49
1:G:621:LEU:HD22	1:G:633:LEU:HD11	1.95	0.49
1:G:910:GLU:O	1:G:914:LEU:HG	2.12	0.49
1:G:1143:LEU:HD12	1:G:1259:TRP:CZ3	2.47	0.49
1:G:1176:LEU:HD12	1:G:1179:LEU:HD12	1.95	0.49
1:G:1856:PHE:CE1	1:G:1872:ARG:HD3	2.47	0.49
1:A:114:GLU:HA	1:A:117:ILE:HG22	1.95	0.48
1:A:269:LYS:O	1:A:495:GLN:N	2.46	0.48
1:A:588:VAL:HG23	1:A:621:LEU:HD12	1.94	0.48
1:A:588:VAL:HB	1:A:622:HIS:ND1	2.28	0.48
1:A:1622:HIS:HA	1:A:1654:VAL:HG23	1.94	0.48
1:A:1804:ASP:OD1	1:A:1806:ASN:N	2.45	0.48
2:B:16:LYS:HZ3	2:B:58:THR:N	2.09	0.48
1:C:106:ASP:OD1	1:C:107:ALA:N	2.46	0.48
1:C:132:ALA:HB3	1:C:1050:SER:OG	2.13	0.48
1:C:208:GLU:OE1	1:C:208:GLU:N	2.46	0.48
1:C:1176:LEU:HD12	1:C:1179:LEU:HD12	1.95	0.48
1:C:1403:VAL:HA	1:C:1409:ARG:NH1	2.27	0.48
1:C:1484:SER:O	1:C:1488:LEU:HD13	2.13	0.48
1:C:1617:ALA:O	1:C:1621:VAL:HG23	2.13	0.48
1:C:1620:MET:O	1:C:1686:LEU:HD21	2.13	0.48
1:E:288:GLU:O	1:E:289:LYS:HG2	2.13	0.48
1:E:1392:VAL:O	1:E:1396:LEU:HD23	2.13	0.48
1:E:1620:MET:O	1:E:1686:LEU:HD21	2.13	0.48
1:E:1740:GLN:HE21	1:E:1746:ARG:H	1.61	0.48
1:E:1851:LEU:HB2	1:E:1875:LEU:HD23	1.95	0.48
1:G:249:ARG:HG2	1:G:838:TYR:OH	2.13	0.48
1:G:402:ALA:HB1	1:G:446:PHE:CE1	2.47	0.48
1:G:555:PRO:HB3	1:G:707:PHE:HZ	1.78	0.48
1:G:1804:ASP:OD1	1:G:1805:SER:N	2.45	0.48
1:G:1987:LYS:HZ2	1:G:1991:LEU:HD11	1.78	0.48
2:H:4:ILE:HD12	2:H:173:ILE:HD12	1.95	0.48
2:H:53:LEU:HD21	2:H:173:ILE:HD11	1.95	0.48
1:A:621:LEU:HD22	1:A:633:LEU:HD11	1.95	0.48
1:A:1617:ALA:O	1:A:1621:VAL:HG23	2.13	0.48
1:A:1728:GLY:HA2	1:A:1731:GLN:OE1	2.13	0.48
1:A:1907:GLU:HA	1:A:1910:GLN:HG2	1.95	0.48
1:C:249:ARG:HG2	1:C:838:TYR:OH	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:402:ALA:HB1	1:C:446:PHE:CE1	2.47	0.48
1:C:1146:HIS:CD2	1:C:1165:TYR:HH	2.30	0.48
1:C:1285:LEU:HD22	1:C:1396:LEU:HD11	1.96	0.48
1:C:1476:THR:HG23	1:C:1477:ILE:HD12	1.94	0.48
2:D:124:ASP:O	2:D:128:LYS:HG2	2.13	0.48
1:E:114:GLU:HA	1:E:117:ILE:HG22	1.95	0.48
1:G:288:GLU:O	1:G:289:LYS:HG2	2.13	0.48
1:G:1800:GLU:O	1:G:1820:ILE:HG22	2.14	0.48
1:A:143:ARG:HG2	1:A:147:LYS:NZ	2.27	0.48
1:A:1176:LEU:HD12	1:A:1179:LEU:HD12	1.95	0.48
1:C:143:ARG:HA	1:C:146:GLN:HB2	1.94	0.48
1:C:328:SER:O	1:C:534:GLU:HG3	2.13	0.48
1:C:398:ALA:HB3	1:C:479:MET:SD	2.53	0.48
1:C:588:VAL:HB	1:C:622:HIS:ND1	2.28	0.48
1:C:1392:VAL:O	1:C:1396:LEU:HD23	2.13	0.48
1:E:143:ARG:HA	1:E:146:GLN:HB2	1.94	0.48
1:E:263:VAL:O	1:E:324:SER:HA	2.13	0.48
1:E:400:HIS:O	1:E:403:ASN:HB2	2.12	0.48
1:E:1176:LEU:HD12	1:E:1179:LEU:HD12	1.95	0.48
2:F:161:THR:HG22	2:F:163:ARG:CD	2.43	0.48
2:H:85:VAL:HB	2:H:129:LEU:HD11	1.95	0.48
1:A:328:SER:O	1:A:534:GLU:HG3	2.13	0.48
1:A:555:PRO:HB3	1:A:707:PHE:HZ	1.78	0.48
1:A:560:PHE:HB2	1:A:570:LEU:HD11	1.95	0.48
1:A:907:LEU:HD22	1:A:945:HIS:CD2	2.48	0.48
1:A:1392:VAL:O	1:A:1396:LEU:HD23	2.13	0.48
1:A:1399:ILE:O	1:A:1402:THR:HB	2.14	0.48
1:A:1593:PRO:HB3	1:A:1630:TYR:CE2	2.48	0.48
2:B:4:ILE:HD12	2:B:173:ILE:HD12	1.95	0.48
2:B:116:LYS:HB3	2:B:119:LEU:HD12	1.96	0.48
1:C:143:ARG:HG2	1:C:147:LYS:HZ3	1.78	0.48
1:C:1064:LEU:HD21	1:C:1102:PRO:O	2.13	0.48
1:C:1617:ALA:HA	1:C:1620:MET:HG2	1.95	0.48
2:D:53:LEU:HD21	2:D:173:ILE:HD11	1.95	0.48
1:E:76:VAL:HB	1:E:1061:CYS:H	1.78	0.48
1:E:132:ALA:HB3	1:E:1050:SER:OG	2.13	0.48
1:E:269:LYS:O	1:E:495:GLN:N	2.46	0.48
1:E:792:ILE:HG23	1:E:797:ILE:HG12	1.93	0.48
1:E:1041:ARG:O	1:E:1044:PHE:HB3	2.13	0.48
1:E:1617:ALA:HA	1:E:1620:MET:HG2	1.95	0.48
1:G:106:ASP:OD1	1:G:107:ALA:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:390:TYR:CD2	1:G:606:VAL:HG11	2.48	0.48
1:G:1820:ILE:HG23	1:G:1822:ILE:HD11	1.93	0.48
1:A:346:LEU:HA	1:A:392:MET:HG2	1.96	0.48
1:A:403:ASN:O	1:A:407:SER:HB3	2.14	0.48
1:A:551:LEU:HD21	1:A:621:LEU:HD23	1.95	0.48
1:A:1433:LEU:O	1:A:1437:LEU:HG	2.13	0.48
1:A:1710:LEU:O	1:A:1713:ILE:HG22	2.14	0.48
1:C:390:TYR:CD2	1:C:606:VAL:HG11	2.48	0.48
1:C:1399:ILE:O	1:C:1402:THR:HB	2.14	0.48
1:E:390:TYR:CD2	1:E:606:VAL:HG11	2.48	0.48
1:E:400:HIS:HE1	1:E:402:ALA:HB3	1.77	0.48
1:E:915:GLN:HA	1:E:918:VAL:HG22	1.96	0.48
1:E:1587:ARG:HE	1:E:1590:GLN:NE2	2.10	0.48
1:E:1728:GLY:HA2	1:E:1731:GLN:OE1	2.13	0.48
1:E:1932:MET:HE3	2:F:39:ASN:ND2	2.28	0.48
1:G:403:ASN:O	1:G:407:SER:HB3	2.13	0.48
1:G:588:VAL:HG23	1:G:621:LEU:HD12	1.94	0.48
1:G:1410:GLU:H	1:G:1410:GLU:CD	2.18	0.48
2:H:116:LYS:HB3	2:H:119:LEU:HD12	1.96	0.48
1:A:249:ARG:HG2	1:A:838:TYR:OH	2.13	0.48
1:A:513:PRO:HD3	1:A:531:GLU:HG2	1.95	0.48
1:A:915:GLN:HA	1:A:918:VAL:HG22	1.96	0.48
1:A:1064:LEU:HD21	1:A:1102:PRO:O	2.13	0.48
1:C:55:ASP:CG	1:C:58:ASP:HB3	2.38	0.48
1:C:263:VAL:O	1:C:324:SER:HA	2.13	0.48
1:C:478:ASP:CG	1:C:486:LEU:HG	2.38	0.48
1:C:1052:GLU:OE2	1:C:1151:ARG:NH1	2.34	0.48
1:C:1593:PRO:HB3	1:C:1630:TYR:CE2	2.48	0.48
1:C:1627:VAL:HG12	1:C:1683:LEU:HD11	1.95	0.48
1:C:1786:LEU:HB2	1:C:1790:TYR:CE1	2.48	0.48
2:D:84:LEU:HB3	2:D:120:ARG:HD3	1.96	0.48
1:E:348:GLN:NE2	1:E:644:PRO:HD3	2.27	0.48
1:E:910:GLU:HG2	1:E:911:GLU:CD	2.38	0.48
1:E:1619:CYS:O	1:E:1622:HIS:HB2	2.14	0.48
1:E:1650:ILE:O	1:E:1845:TYR:OH	2.31	0.48
1:E:1786:LEU:HB2	1:E:1790:TYR:CE1	2.49	0.48
1:E:2010:LEU:O	1:E:2014:LEU:HD23	2.14	0.48
1:G:398:ALA:HB3	1:G:479:MET:SD	2.53	0.48
1:G:588:VAL:HB	1:G:622:HIS:ND1	2.28	0.48
1:G:907:LEU:HD22	1:G:945:HIS:CD2	2.48	0.48
1:G:1285:LEU:HD22	1:G:1396:LEU:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1520:PHE:HE2	1:G:1522:GLU:HB3	1.77	0.48
1:G:1523:GLU:O	1:G:1526:ARG:HB3	2.14	0.48
1:G:1593:PRO:HB3	1:G:1630:TYR:CE2	2.48	0.48
1:G:1728:GLY:HA2	1:G:1731:GLN:OE1	2.13	0.48
1:G:1780:ALA:N	2:H:162:GLN:OE1	2.46	0.48
1:G:1894:ARG:NH1	1:G:1896:GLU:HB2	2.29	0.48
1:G:1943:ASN:HB3	2:H:36:VAL:O	2.13	0.48
1:A:76:VAL:HB	1:A:1061:CYS:H	1.78	0.48
1:A:288:GLU:O	1:A:289:LYS:HG2	2.13	0.48
1:A:1466:LEU:HD13	1:A:1485:LEU:HD23	1.96	0.48
1:A:1851:LEU:HB2	1:A:1875:LEU:HD23	1.94	0.48
1:C:114:GLU:HA	1:C:117:ILE:HG22	1.95	0.48
1:C:287:ARG:NH1	1:C:333:SER:OG	2.40	0.48
1:C:348:GLN:NE2	1:C:644:PRO:HD3	2.27	0.48
1:C:1041:ARG:O	1:C:1044:PHE:HB3	2.13	0.48
1:C:1154:GLU:O	1:C:1157:VAL:N	2.47	0.48
1:C:1565:THR:HA	1:C:1568:MET:HE3	1.96	0.48
1:E:259:GLN:H	1:E:329:VAL:H	1.62	0.48
1:E:317:ALA:HB3	1:E:320:THR:HG23	1.96	0.48
2:F:102:ARG:NE	2:F:105:CYS:O	2.44	0.48
1:G:291:LYS:NZ	1:G:293:SER:O	2.42	0.48
1:G:513:PRO:HD3	1:G:531:GLU:HG2	1.95	0.48
1:G:980:ILE:HD13	1:G:1024:VAL:HA	1.96	0.48
1:G:1178:ARG:NH2	1:G:1243:CYS:O	2.47	0.48
1:G:1484:SER:O	1:G:1488:LEU:HD13	2.13	0.48
1:G:1846:GLY:HA2	1:G:1881:ALA:HB1	1.94	0.48
2:H:124:ASP:O	2:H:128:LYS:HG2	2.13	0.48
1:A:478:ASP:CG	1:A:486:LEU:HG	2.38	0.48
1:A:1627:VAL:HG12	1:A:1683:LEU:HD11	1.95	0.48
1:A:1786:LEU:HB2	1:A:1790:TYR:CE1	2.49	0.48
1:A:1894:ARG:NH1	1:A:1896:GLU:HB2	2.29	0.48
2:B:86:SER:O	2:B:89:SER:OG	2.25	0.48
1:C:513:PRO:HD3	1:C:531:GLU:HG2	1.95	0.48
1:C:683:PRO:O	1:C:684:SER:OG	2.28	0.48
1:C:1008:VAL:HG22	1:C:1009:ASP:N	2.29	0.48
1:C:1169:LEU:HD21	1:C:1261:LEU:HD21	1.96	0.48
1:C:1503:LYS:HB3	1:C:1554:LEU:HD21	1.96	0.48
1:C:1800:GLU:O	1:C:1820:ILE:HG22	2.13	0.48
1:C:1894:ARG:NH1	1:C:1896:GLU:HB2	2.29	0.48
1:C:1934:LEU:HD21	1:C:1984:ALA:HB1	1.95	0.48
1:E:208:GLU:N	1:E:208:GLU:OE1	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:403:ASN:O	1:E:407:SER:HB3	2.14	0.48
1:E:1288:LEU:HD13	1:E:1396:LEU:CD2	2.43	0.48
1:E:1399:ILE:O	1:E:1402:THR:HB	2.14	0.48
1:E:1617:ALA:O	1:E:1621:VAL:HG23	2.13	0.48
1:G:76:VAL:HB	1:G:1061:CYS:H	1.78	0.48
1:G:125:ARG:NH1	1:G:1003:ASP:HA	2.26	0.48
1:G:317:ALA:HB3	1:G:320:THR:HG23	1.96	0.48
1:G:478:ASP:CG	1:G:486:LEU:HG	2.38	0.48
1:G:635:PHE:CD1	1:G:657:THR:HG23	2.44	0.48
1:G:910:GLU:HG2	1:G:911:GLU:CD	2.38	0.48
1:G:1008:VAL:HG22	1:G:1009:ASP:N	2.29	0.48
1:G:1154:GLU:O	1:G:1157:VAL:N	2.47	0.48
1:G:1803:LYS:O	2:H:28:PHE:CE2	2.67	0.48
1:G:1999:TYR:HA	1:G:2002:GLU:CG	2.44	0.48
1:A:208:GLU:OE1	1:A:208:GLU:N	2.47	0.48
1:A:1169:LEU:HD21	1:A:1261:LEU:HD21	1.96	0.48
1:C:317:ALA:HB3	1:C:320:THR:HG23	1.96	0.48
1:C:658:TRP:CH2	1:C:690:PRO:HA	2.49	0.48
1:C:726:LYS:HD3	1:C:760:SER:HB3	1.95	0.48
1:C:1178:ARG:NH2	1:C:1243:CYS:O	2.47	0.48
1:C:1433:LEU:O	1:C:1437:LEU:HG	2.13	0.48
1:C:1907:GLU:HA	1:C:1910:GLN:HG2	1.95	0.48
1:E:1627:VAL:HG12	1:E:1683:LEU:HD11	1.95	0.48
1:G:328:SER:O	1:G:534:GLU:HG3	2.13	0.48
1:G:551:LEU:HD21	1:G:621:LEU:HD23	1.95	0.48
1:G:980:ILE:HG22	1:G:1027:ARG:NE	2.18	0.48
1:G:1407:GLU:HG2	1:G:1408:ALA:N	2.29	0.48
1:G:1786:LEU:HB2	1:G:1790:TYR:CE1	2.48	0.48
1:A:317:ALA:HB3	1:A:320:THR:HG23	1.96	0.48
1:A:1484:SER:O	1:A:1488:LEU:HD13	2.13	0.48
1:A:1617:ALA:HA	1:A:1620:MET:HG2	1.95	0.48
1:A:1620:MET:O	1:A:1686:LEU:HD21	2.13	0.48
1:A:1999:TYR:HA	1:A:2002:GLU:CG	2.44	0.48
1:C:125:ARG:NH1	1:C:1003:ASP:HA	2.26	0.48
1:C:551:LEU:HD21	1:C:621:LEU:HD23	1.95	0.48
1:C:1846:GLY:HA2	1:C:1881:ALA:HB1	1.94	0.48
1:C:1851:LEU:HB2	1:C:1875:LEU:HD23	1.94	0.48
1:C:1999:TYR:HA	1:C:2002:GLU:CG	2.44	0.48
1:E:392:MET:HA	1:E:392:MET:HE2	1.96	0.48
1:E:980:ILE:HD13	1:E:1024:VAL:HA	1.95	0.48
1:E:1058:ASN:HD21	1:E:1109:LEU:HB2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1474:ILE:O	1:E:1478:ARG:HG3	2.14	0.48
1:E:1484:SER:O	1:E:1488:LEU:HD13	2.13	0.48
1:E:1593:PRO:HB3	1:E:1630:TYR:CE2	2.48	0.48
2:F:124:ASP:O	2:F:128:LYS:HG2	2.13	0.48
1:G:658:TRP:CH2	1:G:690:PRO:HA	2.49	0.48
1:G:1499:PHE:O	1:G:1503:LYS:N	2.32	0.48
1:G:1503:LYS:HB3	1:G:1554:LEU:HD21	1.96	0.48
1:G:1693:TYR:O	1:G:1697:GLY:N	2.29	0.48
1:A:726:LYS:HD3	1:A:760:SER:HB3	1.94	0.47
1:A:1289:TYR:CD2	1:A:1419:VAL:HG12	2.49	0.47
1:A:2010:LEU:O	1:A:2014:LEU:HD23	2.14	0.47
2:B:102:ARG:NE	2:B:105:CYS:O	2.44	0.47
1:C:1028:LEU:HD22	1:C:1041:ARG:CZ	2.44	0.47
1:C:1934:LEU:O	1:C:1938:VAL:HG12	2.14	0.47
2:D:4:ILE:HD12	2:D:173:ILE:HD12	1.95	0.47
1:E:551:LEU:HD21	1:E:621:LEU:HD23	1.95	0.47
1:E:1710:LEU:O	1:E:1713:ILE:HG22	2.14	0.47
1:E:1772:LYS:HZ3	1:E:1883:PRO:HA	1.79	0.47
1:E:1934:LEU:O	1:E:1938:VAL:HG12	2.14	0.47
1:G:141:THR:HA	1:G:144:GLU:HG3	1.96	0.47
1:G:400:HIS:HE1	1:G:402:ALA:HB3	1.77	0.47
1:G:1559:HIS:O	1:G:1563:THR:HG23	2.14	0.47
1:G:1740:GLN:HE21	1:G:1746:ARG:H	1.61	0.47
1:G:2010:LEU:O	1:G:2014:LEU:HD23	2.14	0.47
1:A:392:MET:HE2	1:A:392:MET:HA	1.96	0.47
1:A:549:ASN:HA	1:A:715:SER:HA	1.96	0.47
1:A:1800:GLU:O	1:A:1820:ILE:HG22	2.13	0.47
1:A:1810:LYS:HD2	1:A:1813:LEU:HB2	1.95	0.47
1:A:1909:MET:HA	1:A:1912:LYS:CG	2.42	0.47
1:A:1934:LEU:HD21	1:A:1984:ALA:HB1	1.95	0.47
1:C:141:THR:HA	1:C:144:GLU:HG3	1.96	0.47
1:C:392:MET:HE2	1:C:392:MET:HA	1.96	0.47
1:C:621:LEU:HD22	1:C:633:LEU:HD11	1.95	0.47
1:C:727:PHE:HB2	1:C:760:SER:HB2	1.96	0.47
1:C:907:LEU:HD22	1:C:945:HIS:CD2	2.48	0.47
1:C:1058:ASN:HD21	1:C:1109:LEU:HB2	1.79	0.47
1:C:1466:LEU:HD13	1:C:1485:LEU:HD23	1.96	0.47
2:D:116:LYS:HB3	2:D:119:LEU:HD12	1.96	0.47
1:E:1559:HIS:O	1:E:1563:THR:HG23	2.14	0.47
1:E:1653:ASN:HD21	1:E:1848:ARG:NH2	2.13	0.47
1:E:1999:TYR:HA	1:E:2002:GLU:CG	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1289:TYR:CD2	1:G:1419:VAL:HG12	2.49	0.47
1:G:1399:ILE:O	1:G:1402:THR:HB	2.14	0.47
1:G:1773:GLU:HB3	1:G:1777:THR:HG21	1.97	0.47
1:G:1934:LEU:HD21	1:G:1984:ALA:HB1	1.95	0.47
1:A:106:ASP:OD1	1:A:107:ALA:N	2.46	0.47
1:A:141:THR:HA	1:A:144:GLU:HG3	1.96	0.47
1:A:1505:GLN:HA	1:A:1508:MET:CG	2.43	0.47
1:C:141:THR:O	1:C:144:GLU:HG3	2.15	0.47
1:C:254:ARG:C	1:C:545:THR:HG21	2.40	0.47
1:C:1407:GLU:HG2	1:C:1408:ALA:N	2.28	0.47
1:C:1728:GLY:HA2	1:C:1731:GLN:OE1	2.13	0.47
1:E:141:THR:HA	1:E:144:GLU:HG3	1.96	0.47
1:E:141:THR:O	1:E:144:GLU:HG3	2.15	0.47
1:E:328:SER:O	1:E:534:GLU:HG3	2.13	0.47
1:E:346:LEU:HA	1:E:392:MET:HG2	1.96	0.47
1:E:478:ASP:CG	1:E:486:LEU:HG	2.38	0.47
1:E:555:PRO:HB3	1:E:707:PHE:HZ	1.78	0.47
1:E:1169:LEU:HD21	1:E:1261:LEU:HD21	1.96	0.47
1:E:1285:LEU:HD22	1:E:1396:LEU:HD11	1.95	0.47
1:E:1496:GLY:C	1:E:1498:ASN:H	2.22	0.47
1:E:1602:ASN:HB3	1:E:1606:LYS:NZ	2.30	0.47
1:E:1690:ALA:HA	1:E:1693:TYR:CD1	2.49	0.47
1:G:269:LYS:O	1:G:495:GLN:N	2.46	0.47
1:G:1262:LYS:HG2	1:G:1263:ASN:N	2.27	0.47
1:G:1502:VAL:HA	1:G:1505:GLN:CD	2.40	0.47
1:G:1710:LEU:O	1:G:1713:ILE:HG22	2.14	0.47
1:G:1907:GLU:HA	1:G:1910:GLN:HG2	1.95	0.47
1:A:203:LEU:HD13	1:A:1480:HIS:CD2	2.50	0.47
1:A:224:ARG:N	1:A:224:ARG:HD2	2.29	0.47
1:A:297:TYR:CE1	1:A:592:LYS:HE2	2.49	0.47
1:A:390:TYR:O	1:A:391:ARG:NH1	2.44	0.47
1:A:658:TRP:CH2	1:A:690:PRO:HA	2.49	0.47
1:A:1014:PHE:O	1:A:1018:ARG:HG3	2.15	0.47
1:A:1154:GLU:O	1:A:1157:VAL:N	2.47	0.47
1:A:1523:GLU:O	1:A:1526:ARG:HB3	2.14	0.47
1:A:1750:THR:C	1:A:1751:TYR:HD2	2.22	0.47
1:A:1934:LEU:O	1:A:1938:VAL:HG12	2.14	0.47
2:B:124:ASP:O	2:B:128:LYS:HG2	2.13	0.47
2:B:165:LEU:O	2:B:168:VAL:HB	2.15	0.47
1:C:203:LEU:HD13	1:C:1480:HIS:CD2	2.50	0.47
1:C:590:PHE:HB2	1:C:620:LYS:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1773:GLU:HB3	1:C:1777:THR:HG21	1.97	0.47
1:E:1502:VAL:HA	1:E:1505:GLN:CD	2.40	0.47
1:E:1738:MET:HA	1:E:1741:SER:OG	2.15	0.47
1:E:1782:ILE:HG13	1:E:1783:SER:N	2.30	0.47
1:G:727:PHE:HB2	1:G:760:SER:HB2	1.97	0.47
1:G:1058:ASN:HD21	1:G:1109:LEU:HB2	1.79	0.47
1:G:1169:LEU:HD21	1:G:1261:LEU:HD21	1.96	0.47
1:G:1565:THR:HA	1:G:1568:MET:HE3	1.96	0.47
1:G:1620:MET:O	1:G:1686:LEU:HD21	2.13	0.47
1:G:1738:MET:HA	1:G:1741:SER:OG	2.15	0.47
1:A:1128:ALA:HB1	1:A:1131:LEU:HB2	1.97	0.47
1:C:403:ASN:O	1:C:407:SER:HB3	2.14	0.47
1:C:927:ILE:O	1:C:931:ALA:CB	2.59	0.47
1:C:1043:GLU:HA	1:C:1046:ARG:CG	2.44	0.47
1:C:1496:GLY:C	1:C:1498:ASN:H	2.22	0.47
1:C:1850:PHE:CE2	1:C:1882:PHE:HE2	2.33	0.47
1:E:203:LEU:HD13	1:E:1480:HIS:CD2	2.50	0.47
1:E:590:PHE:HB2	1:E:620:LYS:HD2	1.97	0.47
1:E:621:LEU:HD22	1:E:633:LEU:HD11	1.95	0.47
1:E:658:TRP:CH2	1:E:690:PRO:HA	2.49	0.47
1:E:1154:GLU:O	1:E:1157:VAL:N	2.47	0.47
1:E:1289:TYR:CD2	1:E:1419:VAL:HG12	2.49	0.47
1:E:1433:LEU:O	1:E:1437:LEU:HG	2.13	0.47
1:E:1466:LEU:HD13	1:E:1485:LEU:HD23	1.96	0.47
1:E:1909:MET:HA	1:E:1912:LYS:CG	2.42	0.47
2:F:116:LYS:HB3	2:F:119:LEU:HD12	1.96	0.47
1:G:208:GLU:OE1	1:G:208:GLU:N	2.47	0.47
1:G:297:TYR:CE1	1:G:592:LYS:HE2	2.49	0.47
1:G:1617:ALA:HA	1:G:1620:MET:HG2	1.95	0.47
2:H:84:LEU:HB3	2:H:120:ARG:HD3	1.96	0.47
1:A:457:THR:HG22	1:A:496:LEU:H	1.80	0.47
1:A:1158:LYS:HD3	1:A:1158:LYS:N	2.30	0.47
1:A:1847:LEU:H	1:A:1882:PHE:HB2	1.80	0.47
2:B:132:LYS:HZ2	2:B:134:LEU:HD13	1.79	0.47
1:C:297:TYR:CE1	1:C:592:LYS:HE2	2.49	0.47
1:C:400:HIS:HE1	1:C:402:ALA:HB3	1.77	0.47
1:C:555:PRO:HB3	1:C:707:PHE:HZ	1.78	0.47
1:C:980:ILE:HD13	1:C:1024:VAL:HA	1.95	0.47
1:C:1269:LEU:HA	1:C:1272:TRP:HB3	1.97	0.47
1:C:1289:TYR:CD2	1:C:1419:VAL:HG12	2.49	0.47
1:C:1867:PRO:HA	1:C:1953:PHE:HZ	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1909:MET:HG3	1:C:1912:LYS:HD3	1.97	0.47
2:D:165:LEU:O	2:D:168:VAL:HB	2.15	0.47
1:E:56:PHE:CE2	1:E:1010:ARG:CZ	2.98	0.47
1:E:224:ARG:HD2	1:E:224:ARG:N	2.29	0.47
1:E:772:LEU:HD23	1:E:772:LEU:HA	1.76	0.47
1:E:1008:VAL:HG22	1:E:1009:ASP:N	2.29	0.47
1:E:1437:LEU:C	1:E:1440:GLN:HE21	2.20	0.47
1:G:203:LEU:HD13	1:G:1480:HIS:CD2	2.50	0.47
1:G:224:ARG:N	1:G:224:ARG:HD2	2.29	0.47
1:G:268:LEU:HD12	1:G:496:LEU:HD13	1.97	0.47
1:G:775:PHE:CD2	1:G:777:HIS:CE1	3.03	0.47
1:G:915:GLN:HA	1:G:918:VAL:HG22	1.96	0.47
1:G:1028:LEU:HD22	1:G:1041:ARG:CZ	2.44	0.47
1:G:1117:LEU:O	1:G:1121:LEU:HG	2.15	0.47
1:G:1491:GLN:O	1:G:1495:ILE:HG12	2.15	0.47
1:G:1653:ASN:HD21	1:G:1848:ARG:NH2	2.12	0.47
1:G:1810:LYS:HD2	1:G:1813:LEU:HB2	1.95	0.47
1:A:287:ARG:NH1	1:A:333:SER:OG	2.40	0.47
1:A:403:ASN:CA	1:G:407:SER:HA	2.44	0.47
1:A:635:PHE:CD1	1:A:657:THR:HG23	2.44	0.47
1:A:980:ILE:HD13	1:A:1024:VAL:HA	1.96	0.47
1:A:1043:GLU:HA	1:A:1046:ARG:CG	2.44	0.47
1:A:1157:VAL:O	1:A:1161:VAL:HG23	2.15	0.47
1:A:1178:ARG:NH2	1:A:1243:CYS:O	2.47	0.47
1:A:1407:GLU:HG2	1:A:1408:ALA:N	2.29	0.47
1:A:1565:THR:HA	1:A:1568:MET:HE3	1.96	0.47
1:A:1738:MET:HA	1:A:1741:SER:OG	2.15	0.47
1:C:105:LEU:HD22	1:C:109:VAL:HG11	1.97	0.47
1:C:915:GLN:HA	1:C:918:VAL:HG22	1.96	0.47
1:C:1117:LEU:O	1:C:1121:LEU:HG	2.15	0.47
1:C:1288:LEU:HD13	1:C:1396:LEU:CD2	2.43	0.47
1:C:1690:ALA:HA	1:C:1693:TYR:CD1	2.49	0.47
1:C:1710:LEU:O	1:C:1713:ILE:HG22	2.14	0.47
1:C:1738:MET:HA	1:C:1741:SER:OG	2.15	0.47
1:C:1750:THR:C	1:C:1751:TYR:HD2	2.22	0.47
1:C:2010:LEU:O	1:C:2014:LEU:HD23	2.14	0.47
1:E:254:ARG:C	1:E:545:THR:HG21	2.39	0.47
1:E:346:LEU:HB2	1:E:392:MET:HE3	1.97	0.47
1:E:478:ASP:OD2	1:E:486:LEU:HG	2.15	0.47
1:E:1043:GLU:HA	1:E:1046:ARG:CG	2.44	0.47
1:E:1128:ALA:HB1	1:E:1131:LEU:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1407:GLU:HG2	1:E:1408:ALA:N	2.28	0.47
1:E:1503:LYS:HB3	1:E:1554:LEU:HD21	1.96	0.47
1:E:1800:GLU:O	1:E:1820:ILE:HG22	2.13	0.47
1:E:1850:PHE:CE2	1:E:1882:PHE:HE2	2.33	0.47
2:F:132:LYS:HD2	2:F:132:LYS:O	2.15	0.47
1:G:114:GLU:HA	1:G:117:ILE:HG22	1.95	0.47
1:G:231:LEU:O	1:G:234:LEU:N	2.40	0.47
1:G:346:LEU:HA	1:G:392:MET:HG2	1.96	0.47
1:G:478:ASP:OD2	1:G:486:LEU:HG	2.15	0.47
1:G:1055:VAL:HG21	1:G:1152:TYR:CZ	2.50	0.47
1:G:1278:LEU:HB2	1:G:1279:PRO:HD3	1.97	0.47
1:G:1407:GLU:OE1	1:G:1407:GLU:N	2.48	0.47
1:G:1466:LEU:HD13	1:G:1485:LEU:HD23	1.96	0.47
1:G:1750:THR:C	1:G:1751:TYR:HD2	2.22	0.47
1:G:1810:LYS:NZ	1:G:1813:LEU:O	2.48	0.47
1:G:1909:MET:HG3	1:G:1912:LYS:HD3	1.97	0.47
1:G:1934:LEU:O	1:G:1938:VAL:HG12	2.14	0.47
1:A:568:ARG:HD2	1:A:609:HIS:CD2	2.49	0.47
1:A:1028:LEU:HD22	1:A:1041:ARG:CZ	2.44	0.47
1:A:1055:VAL:HG21	1:A:1152:TYR:CZ	2.50	0.47
1:A:1474:ILE:O	1:A:1478:ARG:HG3	2.14	0.47
1:A:1502:VAL:HA	1:A:1505:GLN:CD	2.40	0.47
1:A:1503:LYS:HB3	1:A:1554:LEU:HD21	1.96	0.47
1:A:1602:ASN:HB3	1:A:1606:LYS:NZ	2.30	0.47
1:A:1810:LYS:NZ	1:A:1813:LEU:O	2.48	0.47
2:B:53:LEU:HD21	2:B:173:ILE:HD11	1.96	0.47
1:C:268:LEU:HD12	1:C:496:LEU:HD13	1.97	0.47
1:C:478:ASP:OD2	1:C:486:LEU:HG	2.15	0.47
1:C:775:PHE:CD2	1:C:777:HIS:CE1	3.03	0.47
1:C:1804:ASP:OD1	1:C:1806:ASN:N	2.45	0.47
1:E:568:ARG:HD2	1:E:609:HIS:CD2	2.49	0.47
1:E:1407:GLU:OE1	1:E:1407:GLU:N	2.48	0.47
1:E:1804:ASP:OD1	1:E:1806:ASN:N	2.45	0.47
1:G:346:LEU:HB2	1:G:392:MET:HE3	1.97	0.47
1:G:1496:GLY:C	1:G:1498:ASN:H	2.22	0.47
1:G:1619:CYS:O	1:G:1622:HIS:HB2	2.14	0.47
1:G:1847:LEU:H	1:G:1882:PHE:HB2	1.80	0.47
2:H:132:LYS:HZ2	2:H:134:LEU:HD13	1.79	0.47
2:H:132:LYS:O	2:H:132:LYS:HD2	2.15	0.47
2:H:165:LEU:O	2:H:168:VAL:HB	2.15	0.47
1:A:254:ARG:C	1:A:545:THR:HG21	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1117:LEU:O	1:A:1121:LEU:HG	2.15	0.47
1:A:1265:GLU:HG3	1:A:1268:LEU:HD22	1.97	0.47
1:A:1288:LEU:HD13	1:A:1396:LEU:CD2	2.43	0.47
1:A:1371:LYS:HA	1:A:1374:MET:HE2	1.97	0.47
1:A:1559:HIS:O	1:A:1563:THR:HG23	2.14	0.47
1:A:1619:CYS:O	1:A:1622:HIS:HB2	2.14	0.47
1:A:1782:ILE:HG13	1:A:1783:SER:N	2.30	0.47
1:C:269:LYS:O	1:C:495:GLN:N	2.46	0.47
1:C:549:ASN:HA	1:C:715:SER:HA	1.96	0.47
1:C:1014:PHE:O	1:C:1018:ARG:HG3	2.15	0.47
1:C:1779:LEU:HD13	2:D:26:ASN:OD1	2.14	0.47
1:C:2006:ASN:HA	1:C:2009:ARG:HG2	1.97	0.47
1:E:297:TYR:CE1	1:E:592:LYS:HE2	2.49	0.47
1:E:1028:LEU:HD22	1:E:1041:ARG:CZ	2.44	0.47
1:E:1269:LEU:HA	1:E:1272:TRP:HB3	1.97	0.47
1:E:1523:GLU:O	1:E:1526:ARG:HB3	2.14	0.47
1:E:1620:MET:HE1	1:E:1686:LEU:O	2.15	0.47
2:F:53:LEU:HD21	2:F:173:ILE:HD11	1.96	0.47
2:F:165:LEU:O	2:F:168:VAL:HB	2.15	0.47
1:G:254:ARG:C	1:G:545:THR:HG21	2.40	0.47
1:G:286:VAL:HG22	1:G:335:ASP:HB3	1.95	0.47
1:G:1043:GLU:HA	1:G:1046:ARG:CG	2.44	0.47
1:G:1942:VAL:HB	2:H:38:ASP:OD1	2.15	0.47
2:H:44:VAL:HG12	2:H:45:MET:N	2.30	0.47
1:A:141:THR:O	1:A:144:GLU:HG3	2.15	0.47
1:A:1264:THR:CG2	1:A:1268:LEU:HD21	2.45	0.47
1:A:1269:LEU:HA	1:A:1272:TRP:HB3	1.97	0.47
1:A:1772:LYS:HZ3	1:A:1883:PRO:HA	1.80	0.47
1:A:1776:ILE:HD11	2:B:45:MET:HG2	1.97	0.47
2:B:44:VAL:HG12	2:B:45:MET:N	2.30	0.47
2:B:84:LEU:HB3	2:B:120:ARG:HD3	1.96	0.47
2:B:132:LYS:O	2:B:132:LYS:HD2	2.15	0.47
1:C:509:PHE:CE2	1:C:523:ASP:HB2	2.49	0.47
1:C:1055:VAL:HG21	1:C:1152:TYR:CZ	2.50	0.47
1:C:1278:LEU:HB2	1:C:1279:PRO:HD3	1.97	0.47
1:C:1523:GLU:O	1:C:1526:ARG:HB3	2.14	0.47
1:C:1710:LEU:HG	1:C:1714:LEU:CD1	2.45	0.47
2:D:132:LYS:HD2	2:D:132:LYS:O	2.15	0.47
1:E:775:PHE:CD2	1:E:777:HIS:CE1	3.03	0.47
1:E:1142:LEU:HG	1:E:1146:HIS:CD2	2.50	0.47
1:E:1178:ARG:NH2	1:E:1243:CYS:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2006:ASN:HA	1:E:2009:ARG:HG2	1.97	0.47
1:E:2008:CYS:O	1:E:2011:ARG:N	2.48	0.47
1:G:141:THR:O	1:G:144:GLU:HG3	2.14	0.47
1:G:1014:PHE:O	1:G:1018:ARG:HG3	2.15	0.47
1:G:1264:THR:CG2	1:G:1268:LEU:HD21	2.45	0.47
1:G:1690:ALA:HA	1:G:1693:TYR:CD1	2.49	0.47
1:G:2008:CYS:O	1:G:2011:ARG:N	2.48	0.47
1:A:402:ALA:HB1	1:A:446:PHE:CZ	2.50	0.46
1:A:1008:VAL:HG22	1:A:1009:ASP:N	2.29	0.46
1:A:1285:LEU:HD22	1:A:1396:LEU:HD11	1.96	0.46
1:A:1297:TYR:CZ	1:A:1299:GLY:HA2	2.50	0.46
1:A:1491:GLN:O	1:A:1495:ILE:HG12	2.15	0.46
1:A:1600:LEU:HD11	1:A:1619:CYS:O	2.16	0.46
1:A:1710:LEU:HG	1:A:1714:LEU:CD1	2.45	0.46
1:C:402:ALA:HB1	1:C:446:PHE:CZ	2.50	0.46
1:C:568:ARG:HD2	1:C:609:HIS:CD2	2.50	0.46
1:C:1502:VAL:HA	1:C:1505:GLN:CD	2.40	0.46
1:C:1602:ASN:HB3	1:C:1606:LYS:NZ	2.30	0.46
1:C:1653:ASN:HD21	1:C:1848:ARG:NH2	2.12	0.46
1:C:1791:THR:O	1:C:1795:GLY:N	2.44	0.46
2:D:52:ASN:C	2:D:53:LEU:HD12	2.40	0.46
1:E:128:GLN:O	1:E:131:SER:N	2.40	0.46
1:E:326:ILE:O	1:E:532:ILE:N	2.48	0.46
1:E:1750:THR:C	1:E:1751:TYR:HD2	2.22	0.46
1:G:457:THR:HG22	1:G:496:LEU:H	1.80	0.46
1:G:580:GLU:OE2	1:G:684:SER:N	2.35	0.46
1:G:1547:PHE:O	1:G:1551:VAL:HG23	2.16	0.46
1:A:281:LEU:HB2	1:A:296:PHE:HB3	1.98	0.46
1:A:286:VAL:HG12	1:A:473:PHE:HD1	1.81	0.46
1:A:775:PHE:CD2	1:A:777:HIS:CE1	3.03	0.46
1:A:1142:LEU:HG	1:A:1146:HIS:CD2	2.50	0.46
2:B:52:ASN:C	2:B:53:LEU:HD12	2.40	0.46
1:C:405:VAL:HA	1:C:449:PHE:CD2	2.50	0.46
1:C:1474:ILE:O	1:C:1478:ARG:HG3	2.14	0.46
1:C:1619:CYS:O	1:C:1622:HIS:HB2	2.14	0.46
1:C:1847:LEU:H	1:C:1882:PHE:HB2	1.80	0.46
1:E:155:GLU:HB2	1:E:1473:ARG:HH22	1.81	0.46
1:E:1410:GLU:H	1:E:1410:GLU:CD	2.18	0.46
1:G:155:GLU:HB2	1:G:1473:ARG:HH22	1.81	0.46
1:G:392:MET:HE2	1:G:392:MET:HA	1.96	0.46
1:G:1090:ASP:OD2	1:G:1093:VAL:HG22	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1602:ASN:HB3	1:G:1606:LYS:NZ	2.29	0.46
1:G:1681:LEU:HA	1:G:1684:VAL:HB	1.97	0.46
1:G:2014:LEU:HD13	1:G:2017:LEU:HD12	1.98	0.46
1:A:94:THR:OG1	1:A:96:GLU:O	2.30	0.46
1:A:344:LYS:N	1:A:392:MET:O	2.49	0.46
1:A:405:VAL:HA	1:A:449:PHE:CD2	2.50	0.46
1:A:1090:ASP:OD2	1:A:1093:VAL:HG22	2.16	0.46
1:A:1453:GLU:OE1	1:A:1453:GLU:N	2.32	0.46
1:A:1496:GLY:C	1:A:1498:ASN:H	2.22	0.46
1:A:1908:ASP:HA	1:A:1911:LYS:HE2	1.98	0.46
1:A:1999:TYR:CE2	2:B:67:LEU:HA	2.51	0.46
2:B:132:LYS:O	2:B:133:LYS:HG2	2.16	0.46
1:C:259:GLN:H	1:C:329:VAL:H	1.62	0.46
1:C:1259:TRP:CE2	1:C:1263:ASN:ND2	2.84	0.46
1:C:1681:LEU:HA	1:C:1684:VAL:HB	1.97	0.46
2:D:72:TYR:OH	2:D:100:GLU:HB3	2.16	0.46
1:E:402:ALA:HB1	1:E:446:PHE:CZ	2.50	0.46
1:E:784:VAL:O	1:E:788:ILE:HG12	2.15	0.46
1:E:1410:GLU:HG2	1:E:1411:SER:N	2.30	0.46
1:E:1413:LEU:HD11	1:E:1446:LYS:HZ1	1.80	0.46
1:E:1491:GLN:O	1:E:1495:ILE:HG12	2.14	0.46
1:E:1677:HIS:O	1:E:1679:THR:N	2.40	0.46
1:E:1681:LEU:HA	1:E:1684:VAL:HB	1.97	0.46
1:E:1802:ILE:HB	1:E:1821:GLN:HA	1.98	0.46
2:F:84:LEU:HB3	2:F:120:ARG:HD3	1.96	0.46
1:G:286:VAL:HG12	1:G:473:PHE:HD1	1.81	0.46
1:G:402:ALA:HB1	1:G:446:PHE:CZ	2.50	0.46
1:G:1474:ILE:O	1:G:1478:ARG:HG3	2.14	0.46
1:G:1782:ILE:HG13	1:G:1783:SER:N	2.30	0.46
1:G:2006:ASN:HA	1:G:2009:ARG:HG2	1.97	0.46
1:A:234:LEU:C	1:A:1384:LEU:HD12	2.40	0.46
1:A:259:GLN:H	1:A:329:VAL:H	1.62	0.46
1:A:784:VAL:O	1:A:788:ILE:HG12	2.15	0.46
1:A:1121:LEU:HA	1:A:1132:HIS:CD2	2.50	0.46
1:A:1257:VAL:O	1:A:1260:VAL:HG12	2.16	0.46
1:A:1653:ASN:HD21	1:A:1848:ARG:NH2	2.12	0.46
1:A:1690:ALA:HA	1:A:1693:TYR:CD1	2.49	0.46
2:B:64:TYR:CG	2:B:67:LEU:HD21	2.51	0.46
1:C:234:LEU:C	1:C:1384:LEU:HD12	2.40	0.46
1:C:346:LEU:HA	1:C:392:MET:HG2	1.96	0.46
1:C:925:GLU:O	1:C:929:GLN:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1491:GLN:O	1:C:1495:ILE:HG12	2.15	0.46
1:C:1501:ARG:HE	1:C:1671:GLY:HA2	1.80	0.46
1:C:1573:GLU:H	1:C:1578:LEU:HD11	1.81	0.46
1:C:1620:MET:HE1	1:C:1686:LEU:O	2.15	0.46
1:C:1909:MET:HE1	1:C:1974:PHE:CD1	2.46	0.46
1:C:2008:CYS:O	1:C:2011:ARG:N	2.48	0.46
1:C:2014:LEU:HD13	1:C:2017:LEU:HD12	1.98	0.46
1:E:234:LEU:C	1:E:1384:LEU:HD12	2.40	0.46
1:E:1158:LYS:N	1:E:1158:LYS:HD3	2.30	0.46
1:E:1264:THR:CG2	1:E:1268:LEU:HD21	2.45	0.46
1:E:1265:GLU:HG3	1:E:1268:LEU:HD22	1.97	0.46
1:E:1622:HIS:HB3	1:E:1657:GLU:CD	2.41	0.46
1:E:1847:LEU:H	1:E:1882:PHE:HB2	1.80	0.46
1:E:1867:PRO:HA	1:E:1953:PHE:HZ	1.80	0.46
1:E:1912:LYS:HE3	2:F:37:PHE:CE2	2.51	0.46
1:G:259:GLN:H	1:G:329:VAL:H	1.62	0.46
1:G:590:PHE:HB2	1:G:620:LYS:HD2	1.97	0.46
1:G:956:ARG:HA	1:G:959:ARG:CG	2.41	0.46
1:G:1142:LEU:HG	1:G:1146:HIS:CD2	2.50	0.46
1:G:1257:VAL:O	1:G:1260:VAL:HG12	2.16	0.46
1:G:1269:LEU:HA	1:G:1272:TRP:HB3	1.96	0.46
1:G:1297:TYR:CZ	1:G:1299:GLY:HA2	2.50	0.46
1:G:1600:LEU:HD11	1:G:1619:CYS:O	2.15	0.46
1:G:1791:THR:O	1:G:1795:GLY:N	2.44	0.46
1:A:55:ASP:OD2	1:A:59:VAL:HG23	2.16	0.46
1:A:155:GLU:HB2	1:A:1473:ARG:HH22	1.81	0.46
1:A:569:ASN:HB2	1:A:640:VAL:O	2.16	0.46
1:A:573:ARG:NE	1:A:575:GLN:OE1	2.39	0.46
1:A:1104:ARG:O	1:A:1108:PHE:HA	2.16	0.46
1:A:1620:MET:HE1	1:A:1686:LEU:O	2.15	0.46
1:A:1622:HIS:HB3	1:A:1657:GLU:CD	2.41	0.46
1:A:1850:PHE:CE2	1:A:1882:PHE:HE2	2.33	0.46
2:B:153:LYS:HD3	1:G:688:LEU:HD23	1.98	0.46
1:C:56:PHE:CE2	1:C:1010:ARG:CZ	2.98	0.46
1:C:758:ARG:NE	1:C:800:LEU:HD21	2.31	0.46
1:C:784:VAL:O	1:C:788:ILE:HG12	2.15	0.46
1:C:1040:LEU:HD23	1:C:1043:GLU:OE1	2.16	0.46
1:C:1053:HIS:O	1:C:1056:THR:N	2.49	0.46
1:C:1104:ARG:O	1:C:1108:PHE:HA	2.16	0.46
1:C:1264:THR:CG2	1:C:1268:LEU:HD21	2.45	0.46
1:C:1824:TYR:HE1	2:D:27:ALA:HA	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:73:ARG:H	1:E:73:ARG:HD3	1.81	0.46
1:E:268:LEU:HD12	1:E:496:LEU:HD13	1.97	0.46
1:E:467:LEU:HB3	1:E:472:LEU:HB2	1.98	0.46
1:E:1055:VAL:HG21	1:E:1152:TYR:CZ	2.50	0.46
1:E:1157:VAL:O	1:E:1161:VAL:HG23	2.15	0.46
1:E:1278:LEU:HB2	1:E:1279:PRO:HD3	1.97	0.46
1:E:1371:LYS:HA	1:E:1374:MET:HE2	1.97	0.46
1:E:1501:ARG:HE	1:E:1671:GLY:HA2	1.81	0.46
1:E:1710:LEU:HG	1:E:1714:LEU:CD1	2.45	0.46
1:E:1853:CYS:HB3	1:E:1871:LYS:HD2	1.98	0.46
1:G:281:LEU:HB2	1:G:296:PHE:HB3	1.98	0.46
1:G:326:ILE:O	1:G:532:ILE:N	2.48	0.46
1:G:927:ILE:O	1:G:931:ALA:CB	2.59	0.46
1:G:1505:GLN:HA	1:G:1508:MET:CG	2.43	0.46
1:G:1908:ASP:HA	1:G:1911:LYS:HE2	1.98	0.46
2:H:72:TYR:OH	2:H:100:GLU:HB3	2.16	0.46
1:A:727:PHE:HB2	1:A:760:SER:HB2	1.96	0.46
1:C:224:ARG:HD2	1:C:224:ARG:N	2.30	0.46
1:C:1296:GLU:OE1	1:C:1426:SER:HB2	2.16	0.46
1:C:1371:LYS:HA	1:C:1374:MET:HE2	1.97	0.46
1:C:1407:GLU:OE1	1:C:1407:GLU:N	2.48	0.46
1:C:1559:HIS:O	1:C:1563:THR:HG23	2.14	0.46
1:C:1951:GLN:CD	1:C:2017:LEU:HD11	2.41	0.46
1:E:956:ARG:HA	1:E:959:ARG:CG	2.41	0.46
1:E:1014:PHE:O	1:E:1018:ARG:HG3	2.15	0.46
1:E:1908:ASP:HA	1:E:1911:LYS:HE2	1.98	0.46
2:F:52:ASN:C	2:F:53:LEU:HD12	2.40	0.46
2:F:64:TYR:CG	2:F:67:LEU:HD21	2.51	0.46
1:G:467:LEU:HB3	1:G:472:LEU:HB2	1.98	0.46
1:G:1157:VAL:O	1:G:1161:VAL:HG23	2.15	0.46
1:G:1882:PHE:HA	1:G:1883:PRO:C	2.41	0.46
1:A:265:CYS:SG	1:A:266:LEU:N	2.88	0.46
1:A:268:LEU:HD12	1:A:496:LEU:HD13	1.97	0.46
1:A:1058:ASN:HD21	1:A:1109:LEU:HB2	1.79	0.46
1:A:1263:ASN:ND2	1:A:1263:ASN:H	2.14	0.46
1:A:1803:LYS:HA	1:A:1803:LYS:HE2	1.98	0.46
1:A:2006:ASN:HA	1:A:2009:ARG:HG2	1.97	0.46
1:A:2008:CYS:O	1:A:2011:ARG:N	2.48	0.46
2:B:72:TYR:OH	2:B:100:GLU:HB3	2.16	0.46
1:C:55:ASP:OD2	1:C:59:VAL:HG23	2.16	0.46
1:C:265:CYS:SG	1:C:266:LEU:N	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:812:VAL:HA	1:C:815:VAL:HG12	1.98	0.46
1:C:1034:PRO:O	1:C:1038:LEU:HG	2.16	0.46
1:C:1038:LEU:HD22	1:C:1041:ARG:HH22	1.81	0.46
1:C:1297:TYR:CZ	1:C:1299:GLY:HA2	2.50	0.46
1:C:1552:GLN:HG2	1:C:1556:PHE:CE2	2.51	0.46
1:C:1622:HIS:HB3	1:C:1657:GLU:CD	2.41	0.46
1:C:1638:ARG:HD3	1:C:1638:ARG:N	2.31	0.46
1:C:1740:GLN:HE21	1:C:1746:ARG:H	1.61	0.46
1:C:1782:ILE:HG13	1:C:1783:SER:N	2.30	0.46
2:D:132:LYS:O	2:D:133:LYS:HG2	2.16	0.46
1:E:1034:PRO:O	1:E:1038:LEU:HG	2.16	0.46
1:E:1117:LEU:O	1:E:1121:LEU:HG	2.15	0.46
1:E:1263:ASN:ND2	1:E:1263:ASN:H	2.14	0.46
1:E:1297:TYR:CZ	1:E:1299:GLY:HA2	2.50	0.46
1:E:1565:THR:HA	1:E:1568:MET:HE3	1.96	0.46
1:G:812:VAL:HA	1:G:815:VAL:HG12	1.98	0.46
1:G:1522:GLU:OE1	1:G:1522:GLU:N	2.32	0.46
1:G:1573:GLU:H	1:G:1578:LEU:HD11	1.80	0.46
1:G:1620:MET:HE1	1:G:1686:LEU:O	2.15	0.46
1:G:1850:PHE:CE2	1:G:1882:PHE:HE2	2.33	0.46
2:H:132:LYS:O	2:H:133:LYS:HG2	2.16	0.46
1:A:56:PHE:CE2	1:A:1010:ARG:CZ	2.98	0.46
1:A:396:TRP:CH2	1:A:475:PHE:HB3	2.51	0.46
1:A:478:ASP:OD2	1:A:486:LEU:HG	2.15	0.46
1:A:812:VAL:HA	1:A:815:VAL:HG12	1.98	0.46
1:A:925:GLU:O	1:A:929:GLN:HG3	2.16	0.46
1:A:1773:GLU:HB3	1:A:1777:THR:HG21	1.97	0.46
1:A:1802:ILE:HB	1:A:1821:GLN:HA	1.98	0.46
1:A:1951:GLN:CD	1:A:2017:LEU:HD11	2.41	0.46
1:C:280:ILE:O	1:C:340:ILE:HA	2.16	0.46
1:C:346:LEU:HB2	1:C:392:MET:HE3	1.97	0.46
1:C:396:TRP:CH2	1:C:475:PHE:HB3	2.51	0.46
1:C:1121:LEU:HA	1:C:1132:HIS:CD2	2.51	0.46
1:C:1157:VAL:O	1:C:1161:VAL:HG23	2.15	0.46
1:C:1158:LYS:HD3	1:C:1158:LYS:N	2.30	0.46
1:C:1853:CYS:HB3	1:C:1871:LYS:HD2	1.98	0.46
1:C:1927:ALA:O	1:C:1931:GLN:HG3	2.16	0.46
2:D:44:VAL:HG12	2:D:45:MET:N	2.30	0.46
2:D:64:TYR:CG	2:D:67:LEU:HD21	2.51	0.46
1:E:569:ASN:HB2	1:E:640:VAL:O	2.16	0.46
1:E:1090:ASP:OD2	1:E:1093:VAL:HG22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1121:LEU:HA	1:E:1132:HIS:CD2	2.51	0.46
1:E:1259:TRP:CE2	1:E:1263:ASN:ND2	2.84	0.46
1:E:1381:GLU:OE2	1:E:1384:LEU:HD22	2.16	0.46
1:E:1600:LEU:HD11	1:E:1619:CYS:O	2.16	0.46
1:E:1809:ASP:N	1:E:1809:ASP:OD1	2.48	0.46
2:F:44:VAL:HG12	2:F:45:MET:N	2.30	0.46
2:F:72:TYR:OH	2:F:100:GLU:HB3	2.16	0.46
1:G:265:CYS:SG	1:G:266:LEU:N	2.88	0.46
1:G:925:GLU:O	1:G:929:GLN:HG3	2.16	0.46
1:G:1134:LYS:HA	1:G:1137:SER:OG	2.16	0.46
1:G:1158:LYS:HD3	1:G:1158:LYS:N	2.30	0.46
1:G:1410:GLU:HG2	1:G:1411:SER:N	2.30	0.46
1:G:1552:GLN:HG2	1:G:1556:PHE:CE2	2.51	0.46
1:G:1710:LEU:HG	1:G:1714:LEU:CD1	2.45	0.46
1:G:1809:ASP:OD1	1:G:1809:ASP:N	2.48	0.46
1:G:1847:LEU:HB2	1:G:1882:PHE:CD2	2.51	0.46
1:G:1927:ALA:O	1:G:1931:GLN:HG3	2.16	0.46
1:A:805:PHE:HB2	1:A:915:GLN:CD	2.41	0.46
1:A:1053:HIS:O	1:A:1056:THR:N	2.49	0.46
1:A:1573:GLU:H	1:A:1578:LEU:HD11	1.81	0.46
1:A:1693:TYR:O	1:A:1697:GLY:N	2.29	0.46
1:A:1909:MET:HG3	1:A:1912:LYS:HD3	1.97	0.46
1:C:1134:LYS:HA	1:C:1137:SER:OG	2.16	0.46
1:C:1600:LEU:HD11	1:C:1619:CYS:O	2.16	0.46
1:E:130:LEU:HB2	1:E:1052:GLU:OE2	2.16	0.46
1:E:265:CYS:SG	1:E:266:LEU:N	2.88	0.46
1:E:396:TRP:CH2	1:E:475:PHE:HB3	2.51	0.46
1:E:727:PHE:HB2	1:E:760:SER:HB2	1.96	0.46
1:E:805:PHE:HB2	1:E:915:GLN:CD	2.41	0.46
1:E:927:ILE:O	1:E:931:ALA:CB	2.59	0.46
1:E:1053:HIS:O	1:E:1056:THR:N	2.49	0.46
1:E:1134:LYS:HA	1:E:1137:SER:OG	2.16	0.46
1:G:549:ASN:HA	1:G:715:SER:HA	1.97	0.46
1:G:683:PRO:O	1:G:684:SER:OG	2.27	0.46
1:G:1040:LEU:HD23	1:G:1043:GLU:OE1	2.16	0.46
1:G:1053:HIS:O	1:G:1056:THR:N	2.49	0.46
1:G:1108:PHE:O	1:G:1112:LEU:HG	2.16	0.46
1:G:1802:ILE:HB	1:G:1821:GLN:HA	1.98	0.46
1:G:1867:PRO:HA	1:G:1953:PHE:HZ	1.80	0.46
2:H:52:ASN:C	2:H:53:LEU:HD12	2.40	0.46
1:A:549:ASN:HB2	1:A:623:LEU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1638:ARG:N	1:A:1638:ARG:HD3	2.31	0.46
1:A:1647:PHE:HA	1:A:1650:ILE:HD13	1.98	0.46
1:C:73:ARG:H	1:C:73:ARG:HD3	1.81	0.46
1:C:1683:LEU:O	1:C:1686:LEU:HB3	2.16	0.46
1:C:1882:PHE:HA	1:C:1883:PRO:C	2.41	0.46
1:E:344:LYS:N	1:E:392:MET:O	2.49	0.46
1:E:549:ASN:HA	1:E:715:SER:HA	1.97	0.46
1:E:580:GLU:OE2	1:E:684:SER:N	2.35	0.46
1:E:1040:LEU:HD23	1:E:1043:GLU:OE1	2.16	0.46
1:E:1104:ARG:O	1:E:1108:PHE:HA	2.16	0.46
1:E:1505:GLN:HA	1:E:1508:MET:CG	2.43	0.46
1:G:788:ILE:HG23	1:G:908:LEU:HD12	1.98	0.46
1:G:800:LEU:HA	1:G:800:LEU:HD23	1.81	0.46
1:G:1296:GLU:OE1	1:G:1426:SER:HB2	2.16	0.46
1:G:1683:LEU:O	1:G:1686:LEU:HB3	2.16	0.46
1:G:1802:ILE:N	1:G:1820:ILE:O	2.49	0.46
1:A:282:ALA:O	1:A:339:VAL:HG22	2.16	0.45
1:A:1108:PHE:O	1:A:1112:LEU:HG	2.17	0.45
1:A:1139:VAL:O	1:A:1142:LEU:HB3	2.16	0.45
1:A:1278:LEU:HB2	1:A:1279:PRO:HD3	1.97	0.45
1:A:1809:ASP:OD1	1:A:1809:ASP:N	2.48	0.45
1:A:1867:PRO:HA	1:A:1953:PHE:HZ	1.80	0.45
1:A:2014:LEU:HD13	1:A:2017:LEU:HD12	1.98	0.45
1:C:155:GLU:HB2	1:C:1473:ARG:HH22	1.81	0.45
1:C:268:LEU:HB3	1:C:300:LEU:HD11	1.98	0.45
1:C:1113:LEU:O	1:C:1117:LEU:HG	2.17	0.45
1:C:1847:LEU:HB2	1:C:1882:PHE:CD2	2.51	0.45
1:C:1908:ASP:HA	1:C:1911:LYS:HE2	1.98	0.45
1:E:152:GLN:HE22	1:E:1379:LEU:C	2.21	0.45
1:E:549:ASN:HB2	1:E:623:LEU:HB2	1.98	0.45
1:E:1113:LEU:O	1:E:1117:LEU:HG	2.17	0.45
1:E:1370:THR:O	1:E:1373:GLU:HG3	2.16	0.45
1:E:1936:GLY:CA	2:F:39:ASN:OD1	2.64	0.45
2:F:132:LYS:O	2:F:133:LYS:HG2	2.16	0.45
1:G:405:VAL:HA	1:G:449:PHE:CD2	2.50	0.45
1:G:784:VAL:O	1:G:788:ILE:HG12	2.15	0.45
1:G:1104:ARG:O	1:G:1108:PHE:HA	2.16	0.45
1:G:1128:ALA:HB1	1:G:1131:LEU:HB2	1.97	0.45
1:G:1501:ARG:HE	1:G:1671:GLY:HA2	1.80	0.45
1:G:1638:ARG:HD3	1:G:1638:ARG:N	2.31	0.45
1:A:590:PHE:HB2	1:A:620:LYS:HD2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:758:ARG:NE	1:A:800:LEU:HD21	2.31	0.45
1:C:125:ARG:NH2	1:C:1003:ASP:OD1	2.49	0.45
1:C:281:LEU:HB2	1:C:296:PHE:HB3	1.98	0.45
1:C:805:PHE:HB2	1:C:915:GLN:CD	2.41	0.45
1:C:1139:VAL:O	1:C:1142:LEU:HB3	2.17	0.45
1:C:1265:GLU:HG3	1:C:1268:LEU:HD22	1.97	0.45
1:C:1464:LEU:HA	1:C:1513:LEU:HD11	1.99	0.45
1:C:1809:ASP:OD1	1:C:1809:ASP:N	2.48	0.45
1:E:280:ILE:O	1:E:340:ILE:HA	2.16	0.45
1:E:758:ARG:NE	1:E:800:LEU:HD21	2.31	0.45
1:E:1547:PHE:O	1:E:1551:VAL:HG23	2.16	0.45
1:E:1552:GLN:HG2	1:E:1556:PHE:CE2	2.51	0.45
1:E:1695:THR:HA	1:E:1700:TYR:HE1	1.82	0.45
1:E:1773:GLU:HB3	1:E:1777:THR:HG21	1.97	0.45
1:E:1909:MET:HG3	1:E:1912:LYS:HD3	1.97	0.45
2:F:69:PRO:HA	2:F:72:TYR:HB2	1.98	0.45
1:G:55:ASP:OD2	1:G:59:VAL:HG23	2.16	0.45
1:G:1139:VAL:O	1:G:1142:LEU:HB3	2.17	0.45
1:G:1259:TRP:CE2	1:G:1263:ASN:ND2	2.84	0.45
1:G:1413:LEU:HD11	1:G:1446:LYS:HZ1	1.81	0.45
2:H:16:LYS:NZ	2:H:58:THR:H	2.14	0.45
2:H:64:TYR:CG	2:H:67:LEU:HD21	2.51	0.45
1:A:509:PHE:CE2	1:A:523:ASP:HB2	2.50	0.45
1:A:1296:GLU:OE1	1:A:1426:SER:HB2	2.16	0.45
1:A:1381:GLU:OE2	1:A:1384:LEU:HD22	2.16	0.45
1:A:1407:GLU:N	1:A:1407:GLU:OE1	2.48	0.45
1:A:1522:GLU:HG2	1:A:1523:GLU:CD	2.42	0.45
1:C:510:CYS:HB3	1:C:518:ILE:HB	1.99	0.45
1:C:1257:VAL:O	1:C:1260:VAL:HG12	2.16	0.45
1:C:1715:GLU:O	1:C:1718:ARG:HG3	2.17	0.45
1:E:281:LEU:HB2	1:E:296:PHE:HB3	1.98	0.45
1:E:284:TYR:HB3	1:E:473:PHE:CE1	2.52	0.45
1:E:510:CYS:HB3	1:E:518:ILE:HB	1.99	0.45
1:E:1882:PHE:HA	1:E:1883:PRO:C	2.41	0.45
1:G:56:PHE:CE2	1:G:1010:ARG:CZ	2.98	0.45
1:G:125:ARG:NH2	1:G:1003:ASP:OD1	2.49	0.45
1:G:130:LEU:HB2	1:G:1052:GLU:OE2	2.16	0.45
1:G:568:ARG:HD2	1:G:609:HIS:CD2	2.50	0.45
1:G:758:ARG:NE	1:G:800:LEU:HD21	2.31	0.45
2:H:101:VAL:O	2:H:105:CYS:N	2.49	0.45
1:A:105:LEU:HD22	1:A:109:VAL:HG11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:326:ILE:O	1:A:532:ILE:N	2.48	0.45
1:A:510:CYS:HB3	1:A:518:ILE:HB	1.99	0.45
1:A:788:ILE:HG23	1:A:908:LEU:HD12	1.98	0.45
1:A:1039:THR:O	1:A:1042:MET:HB3	2.17	0.45
1:A:1464:LEU:HA	1:A:1513:LEU:HD11	1.99	0.45
1:A:1501:ARG:HE	1:A:1671:GLY:HA2	1.80	0.45
1:C:286:VAL:HG12	1:C:473:PHE:HD1	1.81	0.45
1:C:1381:GLU:OE2	1:C:1384:LEU:HD22	2.16	0.45
1:C:1693:TYR:O	1:C:1697:GLY:N	2.29	0.45
1:C:1810:LYS:NZ	1:C:1813:LEU:O	2.48	0.45
2:D:86:SER:O	2:D:89:SER:OG	2.25	0.45
1:E:97:PRO:HG2	1:E:99:ILE:HG12	1.99	0.45
1:E:105:LEU:HD22	1:E:109:VAL:HG11	1.97	0.45
1:G:152:GLN:HE22	1:G:1379:LEU:C	2.21	0.45
1:G:396:TRP:CH2	1:G:475:PHE:HB3	2.51	0.45
1:G:1039:THR:O	1:G:1042:MET:HB3	2.17	0.45
1:G:1381:GLU:OE2	1:G:1384:LEU:HD22	2.16	0.45
1:G:1622:HIS:HB3	1:G:1657:GLU:CD	2.41	0.45
1:G:1637:HIS:HB2	1:G:1640:LEU:HG	1.99	0.45
1:G:1803:LYS:HE2	1:G:1803:LYS:HA	1.98	0.45
1:G:1951:GLN:CD	1:G:2017:LEU:HD11	2.41	0.45
1:A:73:ARG:HD3	1:A:73:ARG:H	1.81	0.45
1:A:346:LEU:HB2	1:A:392:MET:HE3	1.97	0.45
1:A:927:ILE:O	1:A:931:ALA:CB	2.59	0.45
1:A:1034:PRO:O	1:A:1038:LEU:HG	2.16	0.45
1:A:1259:TRP:CE2	1:A:1263:ASN:ND2	2.84	0.45
1:A:1370:THR:O	1:A:1373:GLU:HG3	2.16	0.45
1:A:1552:GLN:HG2	1:A:1556:PHE:CE2	2.51	0.45
1:A:1620:MET:HB2	1:A:1620:MET:HE3	1.41	0.45
1:A:1681:LEU:HA	1:A:1684:VAL:HB	1.97	0.45
1:A:1761:PHE:HB3	1:A:1764:LEU:CB	2.44	0.45
1:C:152:GLN:HE22	1:C:1379:LEU:C	2.21	0.45
1:C:326:ILE:O	1:C:532:ILE:N	2.48	0.45
1:C:457:THR:HG22	1:C:496:LEU:H	1.80	0.45
1:C:467:LEU:HB3	1:C:472:LEU:HB2	1.98	0.45
1:C:569:ASN:HB2	1:C:640:VAL:O	2.16	0.45
1:C:1056:THR:HA	1:C:1060:PRO:HG3	1.99	0.45
1:C:1108:PHE:O	1:C:1112:LEU:HG	2.16	0.45
1:C:1128:ALA:HB1	1:C:1131:LEU:HB2	1.97	0.45
1:C:1142:LEU:HG	1:C:1146:HIS:CD2	2.50	0.45
1:C:1772:LYS:HZ3	1:C:1883:PRO:HA	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:55:ASP:OD2	1:E:59:VAL:HG23	2.16	0.45
1:E:509:PHE:CE2	1:E:523:ASP:HB2	2.49	0.45
1:E:1151:ARG:NH2	1:E:1152:TYR:OH	2.30	0.45
1:E:1522:GLU:HG2	1:E:1523:GLU:CD	2.41	0.45
1:E:1607:HIS:CB	1:E:1616:ALA:HB2	2.46	0.45
1:E:1647:PHE:HA	1:E:1650:ILE:HD13	1.98	0.45
1:E:1715:GLU:O	1:E:1718:ARG:HG3	2.17	0.45
1:E:1932:MET:SD	2:F:56:TRP:CE3	3.09	0.45
1:G:105:LEU:HD22	1:G:109:VAL:HG11	1.97	0.45
1:G:234:LEU:C	1:G:1384:LEU:HD12	2.40	0.45
1:G:912:LEU:HA	1:G:915:GLN:CD	2.42	0.45
1:G:1257:VAL:O	1:G:1261:LEU:HD23	2.17	0.45
1:G:1265:GLU:HG3	1:G:1268:LEU:HD22	1.97	0.45
1:A:125:ARG:NH1	1:A:1003:ASP:HA	2.26	0.45
1:A:128:GLN:O	1:A:131:SER:N	2.40	0.45
1:A:130:LEU:HB2	1:A:1052:GLU:OE2	2.16	0.45
1:A:224:ARG:HA	1:A:227:ARG:NH1	2.32	0.45
1:A:1410:GLU:HG2	1:A:1411:SER:N	2.30	0.45
1:A:1638:ARG:HD3	1:A:1638:ARG:H	1.82	0.45
2:B:9:VAL:HA	2:B:16:LYS:NZ	2.32	0.45
1:C:284:TYR:HB3	1:C:473:PHE:CE1	2.52	0.45
1:C:580:GLU:OE2	1:C:684:SER:N	2.35	0.45
1:C:727:PHE:HE1	1:C:761:LEU:HB2	1.82	0.45
1:C:1262:LYS:HG2	1:C:1263:ASN:N	2.27	0.45
1:C:1370:THR:O	1:C:1373:GLU:HG3	2.16	0.45
1:C:1423:SER:OG	1:C:1424:LEU:N	2.50	0.45
1:C:1802:ILE:HB	1:C:1821:GLN:HA	1.98	0.45
1:C:1803:LYS:HE2	1:C:1803:LYS:HA	1.98	0.45
1:E:224:ARG:HA	1:E:227:ARG:NH1	2.32	0.45
1:E:405:VAL:HA	1:E:449:PHE:CD2	2.50	0.45
1:E:1296:GLU:OE1	1:E:1426:SER:HB2	2.16	0.45
1:E:1443:LEU:HA	1:E:1446:LYS:HE3	1.99	0.45
1:E:1520:PHE:CE2	1:E:1522:GLU:HB3	2.52	0.45
1:E:1894:ARG:NH1	1:E:1896:GLU:HB2	2.29	0.45
2:F:101:VAL:O	2:F:105:CYS:N	2.49	0.45
1:G:284:TYR:HB3	1:G:473:PHE:CE1	2.52	0.45
1:G:951:ARG:HD3	1:G:959:ARG:NH2	2.30	0.45
1:G:1034:PRO:O	1:G:1038:LEU:HG	2.16	0.45
1:G:1108:PHE:CE2	1:G:1112:LEU:HD11	2.52	0.45
1:G:1370:THR:O	1:G:1373:GLU:HG3	2.16	0.45
1:G:1371:LYS:HA	1:G:1374:MET:HE2	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1878:THR:OG1	1:G:1880:HIS:O	2.24	0.45
2:H:9:VAL:HA	2:H:16:LYS:NZ	2.32	0.45
1:A:268:LEU:HB3	1:A:300:LEU:HD11	1.98	0.45
1:A:1112:LEU:O	1:A:1113:LEU:C	2.60	0.45
1:A:1257:VAL:O	1:A:1261:LEU:HD23	2.17	0.45
1:A:1837:ARG:HA	1:A:1842:ASP:CG	2.42	0.45
1:A:1847:LEU:HB2	1:A:1882:PHE:CD2	2.51	0.45
2:B:101:VAL:O	2:B:105:CYS:N	2.49	0.45
1:C:130:LEU:HB2	1:C:1052:GLU:OE2	2.16	0.45
1:C:1062:CYS:O	1:C:1106:GLN:NE2	2.50	0.45
1:C:1647:PHE:HA	1:C:1650:ILE:HD13	1.98	0.45
1:C:1947:LEU:H	1:C:1947:LEU:HD12	1.82	0.45
2:D:101:VAL:O	2:D:105:CYS:N	2.49	0.45
1:E:457:THR:HG22	1:E:496:LEU:H	1.80	0.45
1:E:1108:PHE:CE2	1:E:1112:LEU:HD11	2.52	0.45
1:E:1108:PHE:O	1:E:1112:LEU:HG	2.16	0.45
1:E:1409:ARG:O	1:E:1412:VAL:HB	2.17	0.45
1:E:1638:ARG:HD3	1:E:1638:ARG:N	2.31	0.45
1:E:1987:LYS:HZ2	1:E:1991:LEU:HD11	1.82	0.45
1:E:1988:ASN:O	1:E:1992:ILE:HG23	2.17	0.45
2:F:8:VAL:HA	2:F:79:LEU:O	2.17	0.45
1:G:45:VAL:HG21	1:G:1100:SER:HA	1.99	0.45
1:G:569:ASN:HB2	1:G:640:VAL:O	2.16	0.45
1:G:727:PHE:HE1	1:G:761:LEU:HB2	1.82	0.45
1:G:805:PHE:HB2	1:G:915:GLN:CD	2.41	0.45
1:G:1013:VAL:O	1:G:1016:LEU:HG	2.17	0.45
1:G:1263:ASN:ND2	1:G:1263:ASN:H	2.14	0.45
1:G:1520:PHE:CE2	1:G:1522:GLU:HB3	2.52	0.45
1:A:912:LEU:HA	1:A:915:GLN:CD	2.42	0.45
1:A:938:MET:O	1:A:942:MET:HG2	2.17	0.45
1:A:1040:LEU:HD23	1:A:1043:GLU:OE1	2.16	0.45
1:A:1547:PHE:O	1:A:1551:VAL:HG23	2.16	0.45
1:A:1882:PHE:HA	1:A:1883:PRO:C	2.41	0.45
1:A:1927:ALA:O	1:A:1931:GLN:HG3	2.16	0.45
2:B:125:THR:HG23	2:B:128:LYS:NZ	2.32	0.45
2:B:154:TYR:O	2:B:155:LEU:HD22	2.17	0.45
1:C:405:VAL:HG22	1:C:449:PHE:CE1	2.52	0.45
1:C:588:VAL:HB	1:C:622:HIS:HD1	1.82	0.45
1:C:938:MET:O	1:C:942:MET:HG2	2.17	0.45
1:C:1013:VAL:O	1:C:1016:LEU:HG	2.17	0.45
1:C:1263:ASN:ND2	1:C:1263:ASN:H	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1409:ARG:O	1:C:1412:VAL:HB	2.17	0.45
1:C:1410:GLU:HG2	1:C:1411:SER:N	2.30	0.45
1:C:1802:ILE:N	1:C:1820:ILE:O	2.50	0.45
2:D:9:VAL:HA	2:D:16:LYS:NZ	2.32	0.45
2:D:154:TYR:O	2:D:155:LEU:HD22	2.17	0.45
1:E:268:LEU:HB3	1:E:300:LEU:HD11	1.98	0.45
1:E:282:ALA:O	1:E:339:VAL:HG22	2.16	0.45
1:E:286:VAL:HG12	1:E:473:PHE:HD1	1.81	0.45
1:E:925:GLU:O	1:E:929:GLN:HG3	2.16	0.45
1:E:1121:LEU:HA	1:E:1132:HIS:NE2	2.32	0.45
1:E:1464:LEU:HA	1:E:1513:LEU:HD11	1.99	0.45
1:E:1683:LEU:O	1:E:1686:LEU:HB3	2.16	0.45
1:E:1951:GLN:CD	1:E:2017:LEU:HD11	2.41	0.45
1:G:253:PRO:HD3	1:G:834:ALA:HB1	1.99	0.45
1:G:1464:LEU:HA	1:G:1513:LEU:HD11	1.99	0.45
1:G:1647:PHE:HA	1:G:1650:ILE:HD13	1.98	0.45
1:G:1837:ARG:HA	1:G:1842:ASP:CG	2.42	0.45
1:A:280:ILE:O	1:A:340:ILE:HA	2.16	0.45
1:A:1443:LEU:HA	1:A:1446:LYS:HE3	1.99	0.45
1:C:224:ARG:HA	1:C:227:ARG:NH1	2.32	0.45
1:C:253:PRO:HD3	1:C:834:ALA:HB1	1.99	0.45
1:C:1090:ASP:OD2	1:C:1093:VAL:HG22	2.15	0.45
1:C:1547:PHE:O	1:C:1551:VAL:HG23	2.16	0.45
1:C:1695:THR:HA	1:C:1700:TYR:HE1	1.82	0.45
2:D:69:PRO:HA	2:D:72:TYR:HB2	1.98	0.45
1:E:253:PRO:HD3	1:E:834:ALA:HB1	1.99	0.45
1:E:924:ARG:NH1	1:E:927:ILE:HG21	2.32	0.45
1:E:1056:THR:HA	1:E:1060:PRO:HG3	1.99	0.45
1:E:1257:VAL:O	1:E:1260:VAL:HG12	2.16	0.45
1:E:1573:GLU:H	1:E:1578:LEU:HD11	1.81	0.45
1:G:73:ARG:HD3	1:G:73:ARG:H	1.81	0.45
1:G:268:LEU:HB3	1:G:300:LEU:HD11	1.98	0.45
1:G:280:ILE:O	1:G:340:ILE:HA	2.16	0.45
1:G:344:LYS:N	1:G:392:MET:O	2.49	0.45
1:A:588:VAL:HB	1:A:622:HIS:HD1	1.82	0.45
1:A:1695:THR:HA	1:A:1700:TYR:HE1	1.82	0.45
1:A:1791:THR:O	1:A:1795:GLY:N	2.44	0.45
1:A:1848:ARG:O	1:A:1878:THR:HG23	2.17	0.45
2:B:8:VAL:HA	2:B:79:LEU:O	2.17	0.45
1:C:1522:GLU:HG2	1:C:1523:GLU:CD	2.41	0.45
1:C:1988:ASN:O	1:C:1992:ILE:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:264:LYS:HB2	1:E:499:ASP:OD1	2.17	0.45
1:E:1139:VAL:O	1:E:1142:LEU:HB3	2.17	0.45
1:E:1399:ILE:O	1:E:1403:VAL:HG23	2.17	0.45
1:E:1802:ILE:N	1:E:1820:ILE:O	2.49	0.45
1:E:1884:TYR:CE2	1:E:1885:ILE:HG12	2.52	0.45
1:E:2014:LEU:HD13	1:E:2017:LEU:HD12	1.98	0.45
1:G:552:TYR:HA	1:G:619:PHE:O	2.17	0.45
1:G:1909:MET:HA	1:G:1912:LYS:CG	2.42	0.45
1:G:1947:LEU:H	1:G:1947:LEU:HD12	1.82	0.45
1:A:264:LYS:HB2	1:A:499:ASP:OD1	2.17	0.44
1:A:956:ARG:HA	1:A:959:ARG:CG	2.41	0.44
1:A:1637:HIS:HB2	1:A:1640:LEU:HG	1.99	0.44
1:A:1683:LEU:O	1:A:1686:LEU:HB3	2.16	0.44
1:A:1853:CYS:HB3	1:A:1871:LYS:HD2	1.98	0.44
1:C:1121:LEU:HA	1:C:1132:HIS:NE2	2.32	0.44
1:C:1257:VAL:O	1:C:1261:LEU:HD23	2.17	0.44
1:C:1283:ARG:O	1:C:1287:LEU:HG	2.18	0.44
2:D:8:VAL:HA	2:D:79:LEU:O	2.17	0.44
1:E:812:VAL:HA	1:E:815:VAL:HG12	1.98	0.44
1:E:897:ASP:O	1:E:901:ARG:HG2	2.17	0.44
1:E:1257:VAL:O	1:E:1261:LEU:HD23	2.17	0.44
1:E:1260:VAL:O	1:E:1264:THR:OG1	2.30	0.44
1:E:1423:SER:OG	1:E:1424:LEU:N	2.50	0.44
1:E:1637:HIS:HB2	1:E:1640:LEU:HG	1.99	0.44
1:G:264:LYS:HB2	1:G:499:ASP:OD1	2.17	0.44
1:G:627:VAL:HG11	1:G:667:LEU:HD21	1.99	0.44
1:G:1021:TYR:HA	1:G:1024:VAL:CG1	2.47	0.44
1:G:1038:LEU:HD22	1:G:1041:ARG:HH22	1.81	0.44
1:G:1062:CYS:O	1:G:1106:GLN:NE2	2.50	0.44
1:G:1399:ILE:O	1:G:1403:VAL:HG23	2.17	0.44
1:G:1968:ASN:OD1	1:G:1969:LYS:N	2.50	0.44
1:G:1988:ASN:O	1:G:1992:ILE:HG23	2.17	0.44
2:H:102:ARG:NE	2:H:105:CYS:O	2.44	0.44
1:A:627:VAL:HG11	1:A:667:LEU:HD21	1.99	0.44
1:A:718:HIS:CD2	1:A:719:PRO:HD2	2.52	0.44
1:A:897:ASP:O	1:A:901:ARG:HG2	2.17	0.44
1:A:1121:LEU:HA	1:A:1132:HIS:NE2	2.32	0.44
1:A:1134:LYS:HA	1:A:1137:SER:OG	2.16	0.44
1:A:1906:ILE:O	1:A:1910:GLN:HG2	2.18	0.44
2:B:119:LEU:HD22	2:B:125:THR:OG1	2.17	0.44
1:C:282:ALA:O	1:C:339:VAL:HG22	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1059:LEU:O	1:C:1059:LEU:HG	2.17	0.44
1:C:1108:PHE:CE2	1:C:1112:LEU:HD11	2.52	0.44
1:C:1399:ILE:O	1:C:1403:VAL:HG23	2.17	0.44
1:C:1539:ASP:HB3	1:C:1547:PHE:HZ	1.83	0.44
1:C:1779:LEU:HD13	2:D:26:ASN:CG	2.43	0.44
1:C:1854:THR:OG1	1:C:1872:ARG:HB2	2.17	0.44
1:C:1906:ILE:O	1:C:1910:GLN:HG2	2.18	0.44
1:E:727:PHE:HE1	1:E:761:LEU:HB2	1.82	0.44
1:E:1038:LEU:HD22	1:E:1041:ARG:HH22	1.81	0.44
1:E:1059:LEU:HG	1:E:1059:LEU:O	2.17	0.44
1:E:1149:ASP:CG	1:E:1152:TYR:HD2	2.25	0.44
1:E:1413:LEU:HD11	1:E:1446:LYS:NZ	2.33	0.44
1:E:1847:LEU:HB2	1:E:1882:PHE:CD2	2.51	0.44
1:E:1947:LEU:HD12	1:E:1947:LEU:H	1.82	0.44
1:G:133:ALA:HA	1:G:246:ARG:CZ	2.47	0.44
1:G:224:ARG:HA	1:G:227:ARG:NH1	2.32	0.44
1:G:1149:ASP:CG	1:G:1152:TYR:HD2	2.25	0.44
1:G:1283:ARG:O	1:G:1287:LEU:HG	2.18	0.44
1:G:1599:TRP:HA	1:G:1602:ASN:OD1	2.17	0.44
1:A:152:GLN:HE22	1:A:1379:LEU:C	2.21	0.44
1:A:1113:LEU:O	1:A:1117:LEU:HG	2.17	0.44
1:A:1539:ASP:HB3	1:A:1547:PHE:HZ	1.83	0.44
1:A:1947:LEU:H	1:A:1947:LEU:HD12	1.82	0.44
1:C:344:LYS:N	1:C:392:MET:O	2.49	0.44
1:C:1599:TRP:HA	1:C:1602:ASN:OD1	2.17	0.44
2:D:102:ARG:NE	2:D:105:CYS:O	2.44	0.44
1:E:573:ARG:NE	1:E:575:GLN:OE1	2.39	0.44
1:E:588:VAL:HB	1:E:622:HIS:HD1	1.82	0.44
1:E:938:MET:O	1:E:942:MET:HG2	2.17	0.44
1:E:1039:THR:O	1:E:1042:MET:HB3	2.17	0.44
1:E:1112:LEU:O	1:E:1113:LEU:C	2.60	0.44
1:E:1747:VAL:HA	1:E:1840:TYR:OH	2.18	0.44
1:E:1884:TYR:CZ	1:E:1885:ILE:HG12	2.52	0.44
2:F:125:THR:HG23	2:F:128:LYS:NZ	2.32	0.44
2:F:128:LYS:HA	2:F:131:GLU:OE1	2.18	0.44
2:F:154:TYR:O	2:F:155:LEU:HD22	2.17	0.44
1:G:938:MET:O	1:G:942:MET:HG2	2.17	0.44
1:G:1121:LEU:HA	1:G:1132:HIS:CD2	2.51	0.44
1:G:1747:VAL:HA	1:G:1840:TYR:OH	2.18	0.44
1:G:1848:ARG:O	1:G:1878:THR:HG23	2.17	0.44
2:H:125:THR:HG23	2:H:128:LYS:NZ	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:85:LEU:HD23	1:A:85:LEU:H	1.83	0.44
1:A:253:PRO:HD3	1:A:834:ALA:HB1	1.99	0.44
1:A:544:HIS:HB2	1:A:777:HIS:NE2	2.32	0.44
1:A:666:ARG:NH1	1:A:668:ARG:HE	2.15	0.44
1:A:1108:PHE:CE2	1:A:1112:LEU:HD11	2.52	0.44
1:A:1399:ILE:O	1:A:1403:VAL:HG23	2.17	0.44
1:A:1747:VAL:HA	1:A:1840:TYR:OH	2.18	0.44
1:C:552:TYR:HA	1:C:619:PHE:O	2.17	0.44
1:C:897:ASP:O	1:C:901:ARG:HG2	2.17	0.44
1:C:1685:GLY:HA2	1:C:1688:GLU:OE2	2.17	0.44
1:E:552:TYR:HA	1:E:619:PHE:O	2.17	0.44
1:E:666:ARG:NH1	1:E:668:ARG:HE	2.15	0.44
1:E:792:ILE:HG21	1:E:899:VAL:HG22	1.99	0.44
1:E:1689:GLN:HG2	1:E:1693:TYR:CZ	2.52	0.44
1:E:1837:ARG:HA	1:E:1842:ASP:CG	2.42	0.44
1:E:1906:ILE:O	1:E:1910:GLN:HG2	2.17	0.44
1:E:1927:ALA:O	1:E:1931:GLN:HG3	2.16	0.44
1:G:282:ALA:O	1:G:339:VAL:HG22	2.16	0.44
1:G:549:ASN:HB2	1:G:623:LEU:HB2	1.98	0.44
1:G:573:ARG:NE	1:G:575:GLN:OE1	2.39	0.44
1:G:666:ARG:NH1	1:G:668:ARG:HE	2.15	0.44
1:G:1443:LEU:HA	1:G:1446:LYS:HE3	1.99	0.44
1:G:1453:GLU:OE1	1:G:1453:GLU:N	2.32	0.44
1:G:1629:GLU:OE2	1:G:1658:SER:HA	2.18	0.44
1:G:1884:TYR:CE2	1:G:1885:ILE:HG12	2.52	0.44
2:H:8:VAL:HA	2:H:79:LEU:O	2.17	0.44
2:H:119:LEU:HD22	2:H:125:THR:OG1	2.17	0.44
2:H:154:TYR:O	2:H:155:LEU:HD22	2.17	0.44
1:A:78:PHE:HE2	1:A:956:ARG:HH21	1.65	0.44
1:A:543:PRO:HB3	1:A:777:HIS:HD2	1.83	0.44
1:A:1100:SER:HB2	1:A:1102:PRO:HD2	2.00	0.44
1:A:1520:PHE:CE2	1:A:1522:GLU:HB3	2.52	0.44
1:A:1689:GLN:HG2	1:A:1693:TYR:CZ	2.52	0.44
1:C:45:VAL:HG21	1:C:1100:SER:HA	1.99	0.44
1:C:133:ALA:HA	1:C:246:ARG:CZ	2.47	0.44
1:C:614:GLU:H	1:C:614:GLU:CD	2.26	0.44
1:C:1689:GLN:HG2	1:C:1693:TYR:CZ	2.52	0.44
1:C:1827:PRO:HA	1:C:1850:PHE:CD1	2.53	0.44
1:C:1884:TYR:CE2	1:C:1885:ILE:HG12	2.53	0.44
2:D:125:THR:HG23	2:D:128:LYS:NZ	2.32	0.44
1:E:133:ALA:HA	1:E:246:ARG:CZ	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:718:HIS:CD2	1:E:719:PRO:HD2	2.53	0.44
1:E:788:ILE:HG23	1:E:908:LEU:HD12	1.98	0.44
1:E:1599:TRP:HA	1:E:1602:ASN:OD1	2.17	0.44
2:F:9:VAL:HA	2:F:16:LYS:NZ	2.32	0.44
1:G:97:PRO:HG2	1:G:99:ILE:HG12	1.99	0.44
1:G:588:VAL:HB	1:G:622:HIS:HD1	1.82	0.44
1:G:1100:SER:HB2	1:G:1102:PRO:HD2	2.00	0.44
1:G:1689:GLN:HG2	1:G:1693:TYR:CZ	2.52	0.44
1:G:1715:GLU:O	1:G:1718:ARG:HG3	2.17	0.44
1:A:45:VAL:HG21	1:A:1100:SER:HA	1.99	0.44
1:A:133:ALA:HA	1:A:246:ARG:CZ	2.47	0.44
1:A:283:LEU:HB2	1:A:338:LEU:HD13	2.00	0.44
1:A:467:LEU:HB3	1:A:472:LEU:HB2	1.98	0.44
1:A:727:PHE:HE1	1:A:761:LEU:HB2	1.82	0.44
1:A:800:LEU:HD23	1:A:800:LEU:HA	1.81	0.44
1:A:1021:TYR:HA	1:A:1024:VAL:CG1	2.47	0.44
1:A:1038:LEU:HD22	1:A:1041:ARG:HH22	1.81	0.44
1:A:1423:SER:OG	1:A:1424:LEU:N	2.50	0.44
1:A:1607:HIS:CB	1:A:1616:ALA:HB2	2.46	0.44
1:A:1884:TYR:CE2	1:A:1885:ILE:HG12	2.52	0.44
1:A:1885:ILE:HG13	1:A:1886:LYS:HG2	2.00	0.44
2:B:128:LYS:HA	2:B:131:GLU:OE1	2.18	0.44
1:C:85:LEU:HD23	1:C:85:LEU:H	1.83	0.44
1:C:97:PRO:HG2	1:C:99:ILE:HG12	1.99	0.44
1:C:544:HIS:HB2	1:C:777:HIS:NE2	2.32	0.44
1:C:568:ARG:HH21	1:C:643:GLN:HG3	1.83	0.44
1:C:666:ARG:NH1	1:C:668:ARG:HE	2.15	0.44
1:C:1142:LEU:HG	1:C:1146:HIS:NE2	2.33	0.44
2:D:64:TYR:CD1	2:D:67:LEU:HD21	2.53	0.44
2:D:119:LEU:HD22	2:D:125:THR:OG1	2.17	0.44
2:D:140:PRO:O	2:D:143:LEU:HB2	2.18	0.44
1:E:544:HIS:HB2	1:E:777:HIS:NE2	2.32	0.44
1:E:1685:GLY:HA2	1:E:1688:GLU:OE2	2.17	0.44
1:E:1827:PRO:HA	1:E:1850:PHE:CD1	2.53	0.44
1:E:1854:THR:OG1	1:E:1872:ARG:HB2	2.18	0.44
1:E:1941:THR:OG1	2:F:59:ALA:HB2	2.18	0.44
2:F:119:LEU:HD22	2:F:125:THR:OG1	2.17	0.44
1:G:726:LYS:HZ2	1:G:760:SER:HB3	1.83	0.44
1:G:897:ASP:O	1:G:901:ARG:HG2	2.17	0.44
1:G:1409:ARG:O	1:G:1412:VAL:HB	2.17	0.44
1:G:1539:ASP:HB3	1:G:1547:PHE:HZ	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:TYR:HB3	1:A:473:PHE:CE1	2.52	0.44
1:A:924:ARG:NH1	1:A:927:ILE:HG21	2.32	0.44
1:A:1058:ASN:ND2	1:A:1109:LEU:HB2	2.33	0.44
1:A:1142:LEU:HG	1:A:1146:HIS:NE2	2.33	0.44
1:A:1409:ARG:O	1:A:1412:VAL:HB	2.17	0.44
1:A:1715:GLU:O	1:A:1718:ARG:HG3	2.16	0.44
1:A:1772:LYS:NZ	1:A:1882:PHE:HB3	2.33	0.44
1:A:1802:ILE:N	1:A:1820:ILE:O	2.50	0.44
1:A:1854:THR:OG1	1:A:1872:ARG:HB2	2.18	0.44
2:B:64:TYR:CD1	2:B:67:LEU:HD21	2.53	0.44
2:B:69:PRO:HA	2:B:72:TYR:HB2	1.98	0.44
2:B:127:GLU:O	2:B:130:LYS:HG2	2.18	0.44
1:C:549:ASN:HB2	1:C:623:LEU:HB2	1.98	0.44
1:C:551:LEU:HD11	1:C:621:LEU:HD23	2.00	0.44
1:C:627:VAL:HG11	1:C:667:LEU:HD21	1.99	0.44
1:C:788:ILE:HG23	1:C:908:LEU:HD12	1.98	0.44
1:C:912:LEU:HA	1:C:915:GLN:CD	2.42	0.44
1:C:1100:SER:HB2	1:C:1102:PRO:HD2	2.00	0.44
1:C:1112:LEU:O	1:C:1113:LEU:C	2.60	0.44
1:C:1413:LEU:HD11	1:C:1446:LYS:NZ	2.33	0.44
1:C:1837:ARG:HA	1:C:1842:ASP:CG	2.42	0.44
1:C:1848:ARG:O	1:C:1878:THR:HG23	2.17	0.44
2:D:65:ASP:CG	2:D:68:ARG:HH12	2.26	0.44
2:D:140:PRO:HA	2:D:143:LEU:HD22	1.99	0.44
1:E:733:VAL:HG11	1:E:748:LEU:HD21	1.99	0.44
1:E:1803:LYS:HE2	1:E:1803:LYS:HA	1.98	0.44
1:G:152:GLN:CD	1:G:152:GLN:H	2.26	0.44
1:G:510:CYS:HB3	1:G:518:ILE:HB	1.99	0.44
1:G:1113:LEU:O	1:G:1117:LEU:HG	2.17	0.44
1:G:1121:LEU:HA	1:G:1132:HIS:NE2	2.32	0.44
1:G:1260:VAL:O	1:G:1264:THR:OG1	2.30	0.44
1:G:1413:LEU:HD11	1:G:1446:LYS:NZ	2.33	0.44
1:G:1522:GLU:HG2	1:G:1523:GLU:CD	2.41	0.44
1:G:1638:ARG:HD3	1:G:1638:ARG:H	1.82	0.44
1:G:1750:THR:OG1	1:G:1777:THR:OG1	2.04	0.44
2:H:69:PRO:HA	2:H:72:TYR:HB2	1.98	0.44
2:H:140:PRO:HA	2:H:143:LEU:HB2	2.00	0.44
2:H:161:THR:HG22	2:H:163:ARG:CD	2.43	0.44
1:A:244:VAL:H	1:A:246:ARG:HH11	1.66	0.44
1:A:405:VAL:HG22	1:A:449:PHE:CE1	2.52	0.44
1:A:552:TYR:HA	1:A:619:PHE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:733:VAL:HG11	1:A:748:LEU:HD21	1.99	0.44
1:A:1005:LEU:HA	1:A:1005:LEU:HD23	1.77	0.44
1:A:1059:LEU:O	1:A:1059:LEU:HG	2.17	0.44
1:A:1062:CYS:O	1:A:1106:GLN:NE2	2.50	0.44
1:A:1599:TRP:HA	1:A:1602:ASN:OD1	2.17	0.44
1:A:1731:GLN:CG	1:C:1731:GLN:CG	2.81	0.44
1:C:264:LYS:HB2	1:C:499:ASP:OD1	2.18	0.44
1:C:283:LEU:HB2	1:C:338:LEU:HD13	2.00	0.44
1:C:1039:THR:O	1:C:1042:MET:HB3	2.17	0.44
1:C:1149:ASP:CG	1:C:1152:TYR:HD2	2.25	0.44
1:C:1520:PHE:CE2	1:C:1522:GLU:HB3	2.52	0.44
1:C:1747:VAL:HA	1:C:1840:TYR:OH	2.18	0.44
1:C:1885:ILE:HG13	1:C:1886:LYS:HG2	2.00	0.44
1:C:1968:ASN:OD1	1:C:1969:LYS:N	2.50	0.44
1:E:568:ARG:HH21	1:E:643:GLN:HG3	1.83	0.44
1:E:912:LEU:HA	1:E:915:GLN:CD	2.42	0.44
1:E:1283:ARG:O	1:E:1287:LEU:HG	2.18	0.44
1:E:1596:ARG:HD2	1:E:1596:ARG:HA	1.74	0.44
1:E:1629:GLU:OE2	1:E:1658:SER:HA	2.18	0.44
1:E:1809:ASP:HB2	1:E:1812:LYS:HE2	2.00	0.44
2:F:127:GLU:O	2:F:130:LYS:HG2	2.18	0.44
1:G:223:ARG:HE	1:G:1394:ASP:CG	2.21	0.44
2:H:64:TYR:CD1	2:H:67:LEU:HD21	2.53	0.44
2:H:86:SER:O	2:H:89:SER:OG	2.25	0.44
1:A:125:ARG:HH22	1:A:1003:ASP:HA	1.83	0.44
1:A:551:LEU:HD11	1:A:621:LEU:HD23	2.00	0.44
1:A:785:ARG:NH2	1:A:789:ARG:HH11	2.16	0.44
1:A:1522:GLU:OE1	1:A:1522:GLU:N	2.32	0.44
1:A:1809:ASP:HB2	1:A:1812:LYS:HE2	2.00	0.44
2:B:1:MET:HB3	2:B:2:GLN:H	1.65	0.44
2:B:9:VAL:HA	2:B:16:LYS:HZ1	1.83	0.44
1:C:543:PRO:HB3	1:C:777:HIS:HD2	1.83	0.44
1:C:718:HIS:CD2	1:C:719:PRO:HD2	2.53	0.44
1:C:956:ARG:HA	1:C:959:ARG:CG	2.41	0.44
1:C:1281:LEU:O	1:C:1285:LEU:HG	2.18	0.44
1:C:1467:LEU:HA	1:C:1467:LEU:HD23	1.83	0.44
1:C:1629:GLU:OE2	1:C:1658:SER:HA	2.18	0.44
1:C:1750:THR:OG1	1:C:1777:THR:OG1	2.04	0.44
1:C:1809:ASP:HB2	1:C:1812:LYS:HE2	2.00	0.44
1:C:1884:TYR:CZ	1:C:1885:ILE:HG12	2.53	0.44
2:D:140:PRO:HA	2:D:143:LEU:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1606:LYS:O	1:E:1610:LEU:HD23	2.18	0.44
1:E:1638:ARG:HD3	1:E:1638:ARG:H	1.82	0.44
1:E:2015:GLN:N	1:E:2016:PRO:HD2	2.33	0.44
2:F:64:TYR:CD1	2:F:67:LEU:HD21	2.53	0.44
1:G:551:LEU:HD11	1:G:621:LEU:HD23	2.00	0.44
1:G:1056:THR:HA	1:G:1060:PRO:HG3	1.99	0.44
1:G:1853:CYS:HB3	1:G:1871:LYS:HD2	1.98	0.44
2:H:90:PHE:CZ	2:H:141:GLN:HG2	2.53	0.44
2:H:140:PRO:O	2:H:143:LEU:HB2	2.18	0.44
1:A:97:PRO:HG2	1:A:99:ILE:HG12	1.99	0.43
1:A:128:GLN:O	1:A:134:TYR:HB2	2.18	0.43
1:A:614:GLU:H	1:A:614:GLU:CD	2.26	0.43
1:A:1500:ALA:HA	1:A:1503:LYS:HE2	2.00	0.43
2:B:94:ARG:HE	2:B:145:MET:CE	2.31	0.43
1:C:1486:TYR:HA	1:C:1489:MET:HE3	2.00	0.43
1:C:1501:ARG:O	1:C:1505:GLN:OE1	2.36	0.43
1:C:1583:TYR:CD2	1:C:1886:LYS:HD3	2.53	0.43
1:E:85:LEU:H	1:E:85:LEU:HD23	1.83	0.43
1:E:125:ARG:HH22	1:E:1003:ASP:HA	1.83	0.43
1:E:283:LEU:HB2	1:E:338:LEU:HD13	2.00	0.43
1:E:405:VAL:HG22	1:E:449:PHE:CE1	2.52	0.43
1:E:1100:SER:HB2	1:E:1102:PRO:HD2	2.00	0.43
1:E:1903:GLU:O	1:E:1907:GLU:OE1	2.36	0.43
1:G:85:LEU:HD23	1:G:85:LEU:H	1.83	0.43
1:G:614:GLU:H	1:G:614:GLU:CD	2.26	0.43
1:G:1002:SER:OG	1:G:1003:ASP:N	2.51	0.43
1:G:1423:SER:OG	1:G:1424:LEU:N	2.50	0.43
1:G:1854:THR:OG1	1:G:1872:ARG:HB2	2.18	0.43
1:G:1903:GLU:O	1:G:1907:GLU:OE1	2.36	0.43
2:H:80:ILE:HG23	2:H:112:LEU:CD1	2.48	0.43
1:A:252:PRO:HB2	1:A:254:ARG:CZ	2.49	0.43
1:A:915:GLN:O	1:A:919:SER:N	2.52	0.43
1:A:1013:VAL:O	1:A:1016:LEU:HG	2.17	0.43
1:A:1027:ARG:HH11	1:A:1031:SER:CB	2.31	0.43
1:A:1685:GLY:HA2	1:A:1688:GLU:OE2	2.17	0.43
1:A:1968:ASN:OD1	1:A:1969:LYS:N	2.50	0.43
1:C:152:GLN:H	1:C:152:GLN:CD	2.26	0.43
1:C:785:ARG:NH2	1:C:789:ARG:HH11	2.16	0.43
1:C:1443:LEU:HA	1:C:1446:LYS:HE3	1.99	0.43
1:C:1637:HIS:HB2	1:C:1640:LEU:HG	1.99	0.43
1:C:1909:MET:HA	1:C:1912:LYS:CG	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:152:GLN:CD	1:E:152:GLN:H	2.26	0.43
1:E:1013:VAL:O	1:E:1016:LEU:HG	2.17	0.43
1:E:1500:ALA:HA	1:E:1503:LYS:HE2	2.00	0.43
1:E:1676:LYS:HG3	1:E:1677:HIS:N	2.33	0.43
1:E:1856:PHE:HA	1:E:1862:ALA:HA	2.00	0.43
2:F:65:ASP:CG	2:F:68:ARG:HH12	2.26	0.43
2:F:80:ILE:HG23	2:F:112:LEU:CD1	2.48	0.43
2:F:98:TYR:OH	2:F:102:ARG:NH1	2.51	0.43
2:F:140:PRO:HA	2:F:143:LEU:HB2	2.00	0.43
1:G:128:GLN:O	1:G:134:TYR:HB2	2.18	0.43
1:G:568:ARG:HH21	1:G:643:GLN:HG3	1.83	0.43
1:G:634:LEU:HD21	1:G:656:PHE:CD1	2.53	0.43
1:G:924:ARG:NH1	1:G:927:ILE:HG21	2.32	0.43
1:G:1051:HIS:CE1	1:G:1053:HIS:H	2.37	0.43
1:G:1059:LEU:HG	1:G:1059:LEU:O	2.17	0.43
1:G:1629:GLU:O	1:G:1633:LEU:HD23	2.19	0.43
1:G:1906:ILE:O	1:G:1910:GLN:HG2	2.17	0.43
1:A:247:CYS:HA	1:A:826:ARG:NH1	2.34	0.43
1:A:568:ARG:HH21	1:A:643:GLN:HG3	1.83	0.43
1:A:1059:LEU:CD1	1:A:1062:CYS:HB3	2.48	0.43
1:A:1149:ASP:CG	1:A:1152:TYR:HD2	2.25	0.43
1:A:1583:TYR:CD2	1:A:1886:LYS:HD3	2.53	0.43
1:A:1592:SER:OG	1:A:1595:LEU:HD23	2.18	0.43
1:A:1606:LYS:O	1:A:1610:LEU:HD23	2.18	0.43
1:A:1676:LYS:HG3	1:A:1677:HIS:N	2.33	0.43
1:A:1827:PRO:HA	1:A:1850:PHE:CD1	2.53	0.43
1:A:1856:PHE:HA	1:A:1862:ALA:HA	2.00	0.43
1:A:1884:TYR:CZ	1:A:1885:ILE:HG12	2.52	0.43
2:B:94:ARG:HE	2:B:145:MET:HE3	1.84	0.43
2:B:98:TYR:OH	2:B:102:ARG:NH1	2.51	0.43
1:C:129:TYR:O	1:C:135:SER:HB2	2.19	0.43
1:C:247:CYS:HA	1:C:826:ARG:NH1	2.34	0.43
1:C:726:LYS:HZ2	1:C:760:SER:HB3	1.83	0.43
1:C:924:ARG:NH1	1:C:927:ILE:HG21	2.32	0.43
1:C:1005:LEU:HA	1:C:1005:LEU:HD23	1.77	0.43
1:C:1592:SER:OG	1:C:1595:LEU:HD23	2.18	0.43
2:D:169:PHE:O	2:D:173:ILE:HG12	2.18	0.43
1:E:45:VAL:HG21	1:E:1100:SER:HA	1.99	0.43
1:E:244:VAL:H	1:E:246:ARG:HH11	1.66	0.43
1:E:956:ARG:CA	1:E:959:ARG:HG2	2.44	0.43
1:E:1486:TYR:HA	1:E:1489:MET:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1508:MET:O	1:E:1511:SER:OG	2.36	0.43
1:E:1772:LYS:NZ	1:E:1882:PHE:HB3	2.33	0.43
1:E:1791:THR:O	1:E:1795:GLY:N	2.44	0.43
2:F:140:PRO:HA	2:F:143:LEU:HD22	2.00	0.43
2:F:169:PHE:O	2:F:173:ILE:HG12	2.18	0.43
1:G:1112:LEU:O	1:G:1113:LEU:C	2.60	0.43
1:G:1685:GLY:HA2	1:G:1688:GLU:OE2	2.17	0.43
2:H:65:ASP:CG	2:H:68:ARG:HH12	2.26	0.43
2:H:127:GLU:O	2:H:130:LYS:HG2	2.18	0.43
2:H:169:PHE:O	2:H:173:ILE:HG12	2.19	0.43
1:A:129:TYR:O	1:A:135:SER:HB2	2.19	0.43
1:A:1150:PRO:HA	1:A:1153:ALA:HB2	2.00	0.43
1:A:1988:ASN:O	1:A:1992:ILE:HG23	2.17	0.43
1:C:142:GLN:O	1:C:146:GLN:HG2	2.19	0.43
1:C:216:ASP:O	1:C:220:GLU:OE1	2.37	0.43
1:C:733:VAL:HG11	1:C:748:LEU:HD21	1.99	0.43
1:C:824:ASP:OD2	1:C:826:ARG:HB2	2.19	0.43
1:C:951:ARG:HD3	1:C:959:ARG:NE	2.31	0.43
1:C:1051:HIS:CE1	1:C:1053:HIS:H	2.37	0.43
2:D:5:LYS:HB3	2:D:76:ASP:HB2	2.01	0.43
2:D:80:ILE:HG23	2:D:112:LEU:CD1	2.48	0.43
2:D:127:GLU:O	2:D:130:LYS:HG2	2.18	0.43
1:E:215:VAL:O	1:E:219:ASN:ND2	2.52	0.43
1:E:466:ARG:HB3	1:E:616:TYR:HD1	1.83	0.43
1:E:543:PRO:HB3	1:E:777:HIS:HD2	1.83	0.43
1:E:627:VAL:HG11	1:E:667:LEU:HD21	1.99	0.43
1:E:1150:PRO:HA	1:E:1153:ALA:HB2	2.00	0.43
1:E:1885:ILE:HG13	1:E:1886:LYS:HG2	2.00	0.43
1:E:1968:ASN:OD1	1:E:1969:LYS:N	2.50	0.43
1:G:466:ARG:HB3	1:G:616:TYR:HD1	1.83	0.43
1:G:733:VAL:HG11	1:G:748:LEU:HD21	1.99	0.43
1:G:1143:LEU:HA	1:G:1143:LEU:HD13	1.89	0.43
1:G:1158:LYS:O	1:G:1159:ALA:C	2.62	0.43
1:G:1281:LEU:O	1:G:1285:LEU:HG	2.18	0.43
1:G:1508:MET:O	1:G:1511:SER:OG	2.36	0.43
1:G:1587:ARG:NH2	1:G:1590:GLN:HE22	2.12	0.43
1:A:277:ILE:HA	1:A:343:GLU:O	2.19	0.43
1:A:331:TYR:HD2	1:A:537:ALA:HB3	1.84	0.43
1:A:466:ARG:HB3	1:A:616:TYR:HD1	1.83	0.43
1:A:1173:ARG:HA	1:A:1287:LEU:HD21	2.01	0.43
1:A:1396:LEU:O	1:A:1400:VAL:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1413:LEU:HD11	1:A:1446:LYS:NZ	2.33	0.43
1:C:223:ARG:HE	1:C:1394:ASP:CG	2.21	0.43
1:C:224:ARG:NH1	1:C:227:ARG:HH22	2.17	0.43
1:C:277:ILE:HA	1:C:343:GLU:O	2.18	0.43
1:C:641:SER:N	1:C:650:LEU:O	2.42	0.43
1:C:1156:THR:OG1	1:C:1157:VAL:N	2.51	0.43
1:C:1508:MET:O	1:C:1511:SER:OG	2.36	0.43
1:C:1557:ASN:O	1:C:1561:ILE:HG12	2.19	0.43
1:C:1575:PRO:O	1:C:1579:ILE:HD12	2.19	0.43
1:C:1629:GLU:O	1:C:1633:LEU:HD23	2.19	0.43
1:C:1845:TYR:CE1	1:C:1883:PRO:HD2	2.54	0.43
1:E:125:ARG:NH1	1:E:1003:ASP:HA	2.26	0.43
1:E:1049:CYS:C	1:E:1051:HIS:H	2.27	0.43
1:E:1051:HIS:CE1	1:E:1053:HIS:H	2.37	0.43
1:E:1592:SER:OG	1:E:1595:LEU:HD23	2.18	0.43
1:G:142:GLN:O	1:G:146:GLN:HG2	2.19	0.43
1:G:277:ILE:HA	1:G:343:GLU:O	2.19	0.43
1:G:405:VAL:HG22	1:G:449:PHE:CE1	2.52	0.43
1:G:543:PRO:HB3	1:G:777:HIS:HD2	1.83	0.43
1:G:1557:ASN:O	1:G:1561:ILE:HG12	2.19	0.43
1:G:1592:SER:OG	1:G:1595:LEU:HD23	2.18	0.43
1:G:1884:TYR:CZ	1:G:1885:ILE:HG12	2.52	0.43
1:A:239:ASP:OD2	1:A:1137:SER:HB2	2.18	0.43
1:A:634:LEU:HD21	1:A:656:PHE:CD1	2.53	0.43
1:A:792:ILE:HG21	1:A:899:VAL:HG22	1.99	0.43
1:A:1281:LEU:O	1:A:1285:LEU:HG	2.18	0.43
1:A:1467:LEU:HA	1:A:1467:LEU:HD23	1.84	0.43
1:A:1872:ARG:NH1	1:A:1896:GLU:HG2	2.34	0.43
2:B:65:ASP:CG	2:B:68:ARG:HH12	2.26	0.43
2:B:90:PHE:CZ	2:B:141:GLN:HG2	2.53	0.43
2:B:140:PRO:HA	2:B:143:LEU:HB2	1.99	0.43
2:B:140:PRO:O	2:B:143:LEU:HB2	2.18	0.43
2:B:161:THR:HG22	2:B:163:ARG:CD	2.43	0.43
1:C:573:ARG:NE	1:C:575:GLN:OE1	2.39	0.43
1:C:792:ILE:HG21	1:C:899:VAL:HG22	1.99	0.43
1:C:915:GLN:O	1:C:919:SER:N	2.51	0.43
1:C:951:ARG:NE	1:C:954:THR:HG21	2.33	0.43
1:C:1510:LEU:HD12	1:C:1511:SER:N	2.34	0.43
1:E:247:CYS:HA	1:E:826:ARG:NH1	2.34	0.43
1:E:252:PRO:HB2	1:E:254:ARG:NH1	2.33	0.43
1:E:574:VAL:HG12	1:E:602:ALA:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:784:VAL:HG13	1:E:908:LEU:CD1	2.49	0.43
1:E:951:ARG:HD3	1:E:959:ARG:NH2	2.30	0.43
1:E:1062:CYS:O	1:E:1106:GLN:NE2	2.50	0.43
1:E:1281:LEU:O	1:E:1285:LEU:HG	2.18	0.43
1:E:1285:LEU:HD23	1:E:1288:LEU:HD12	2.01	0.43
2:F:90:PHE:CZ	2:F:141:GLN:HG2	2.53	0.43
2:F:140:PRO:O	2:F:143:LEU:HB2	2.18	0.43
1:G:216:ASP:O	1:G:220:GLU:OE1	2.37	0.43
1:G:792:ILE:HG21	1:G:899:VAL:HG22	1.99	0.43
1:G:1396:LEU:O	1:G:1400:VAL:HG23	2.19	0.43
1:G:1413:LEU:HA	1:G:1416:VAL:HG22	2.01	0.43
1:G:1607:HIS:CB	1:G:1616:ALA:HB2	2.46	0.43
1:G:1885:ILE:HG13	1:G:1886:LYS:HG2	2.00	0.43
2:H:128:LYS:HA	2:H:131:GLU:OE1	2.18	0.43
1:A:224:ARG:NH1	1:A:227:ARG:HH22	2.17	0.43
1:A:719:PRO:HG3	1:A:728:PHE:CD2	2.54	0.43
1:A:784:VAL:HG13	1:A:908:LEU:CD1	2.49	0.43
1:A:951:ARG:NE	1:A:954:THR:HG21	2.34	0.43
1:A:1122:GLU:OE1	1:A:1124:GLU:HG3	2.19	0.43
1:A:1156:THR:OG1	1:A:1157:VAL:N	2.51	0.43
1:A:1421:LEU:HD21	1:A:1462:LEU:HA	2.01	0.43
1:A:1575:PRO:O	1:A:1579:ILE:HD12	2.19	0.43
1:A:1629:GLU:OE2	1:A:1658:SER:HA	2.18	0.43
1:A:1653:ASN:CG	1:A:1881:ALA:H	2.25	0.43
1:A:2015:GLN:N	1:A:2016:PRO:HD2	2.33	0.43
2:B:140:PRO:HA	2:B:143:LEU:HD22	2.00	0.43
1:C:466:ARG:HB3	1:C:616:TYR:HD1	1.83	0.43
1:C:1173:ARG:HA	1:C:1287:LEU:HD21	2.01	0.43
1:C:1617:ALA:HB2	1:C:1693:TYR:HB2	2.01	0.43
1:C:1772:LYS:NZ	1:C:1882:PHE:HB3	2.33	0.43
1:C:1872:ARG:NH1	1:C:1896:GLU:HG2	2.34	0.43
1:C:2015:GLN:N	1:C:2016:PRO:HD2	2.33	0.43
2:D:90:PHE:CZ	2:D:141:GLN:HG2	2.53	0.43
1:E:1557:ASN:O	1:E:1561:ILE:HG12	2.19	0.43
1:E:1583:TYR:CD2	1:E:1886:LYS:HD3	2.53	0.43
1:G:283:LEU:HB2	1:G:338:LEU:HD13	2.00	0.43
1:G:1421:LEU:HD21	1:G:1462:LEU:HA	2.01	0.43
1:G:1579:ILE:HG22	1:G:1886:LYS:HZ2	1.84	0.43
1:G:1583:TYR:CD2	1:G:1886:LYS:HD3	2.53	0.43
1:G:1772:LYS:NZ	1:G:1882:PHE:HB3	2.33	0.43
1:G:1856:PHE:HA	1:G:1862:ALA:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:PRO:C	1:A:206:LEU:H	2.27	0.43
1:A:215:VAL:O	1:A:219:ASN:ND2	2.52	0.43
1:A:574:VAL:HG12	1:A:602:ALA:HB3	2.00	0.43
1:A:1056:THR:HA	1:A:1060:PRO:HG3	1.99	0.43
1:A:1259:TRP:CG	1:A:1263:ASN:HD21	2.37	0.43
1:A:1400:VAL:O	1:A:1403:VAL:HB	2.19	0.43
1:A:1903:GLU:O	1:A:1907:GLU:OE1	2.36	0.43
2:B:80:ILE:HG23	2:B:112:LEU:CD1	2.48	0.43
1:C:204:PRO:C	1:C:206:LEU:H	2.27	0.43
1:C:252:PRO:HB2	1:C:254:ARG:CZ	2.49	0.43
1:C:719:PRO:HG3	1:C:728:PHE:CD2	2.54	0.43
1:C:1168:LEU:HA	1:C:1171:ILE:HD12	2.01	0.43
1:C:1413:LEU:HA	1:C:1416:VAL:HG22	2.01	0.43
1:C:1606:LYS:O	1:C:1610:LEU:HD23	2.18	0.43
1:C:1638:ARG:HD3	1:C:1638:ARG:H	1.82	0.43
2:D:9:VAL:HG12	2:D:78:PHE:CZ	2.53	0.43
2:D:97:TRP:CD1	2:D:100:GLU:OE1	2.72	0.43
1:E:239:ASP:OD2	1:E:1137:SER:HB2	2.18	0.43
1:E:281:LEU:HD22	1:E:338:LEU:HD21	2.00	0.43
1:E:551:LEU:HD11	1:E:621:LEU:HD23	2.00	0.43
1:E:1848:ARG:O	1:E:1878:THR:HG23	2.17	0.43
1:G:129:TYR:O	1:G:135:SER:HB2	2.19	0.43
1:G:331:TYR:HD2	1:G:537:ALA:HB3	1.84	0.43
1:G:968:ILE:O	1:G:972:VAL:HG22	2.19	0.43
1:G:1173:ARG:HA	1:G:1287:LEU:HD21	2.01	0.43
1:G:1575:PRO:O	1:G:1579:ILE:HD12	2.19	0.43
1:G:1606:LYS:O	1:G:1610:LEU:HD23	2.18	0.43
1:G:1827:PRO:HA	1:G:1850:PHE:CD1	2.53	0.43
1:G:1954:LEU:HA	1:G:1971:ARG:NH1	2.34	0.43
1:G:2015:GLN:N	1:G:2016:PRO:HD2	2.33	0.43
1:A:283:LEU:HB3	1:A:293:SER:HB2	2.01	0.43
1:A:999:PHE:O	1:A:1002:SER:OG	2.36	0.43
1:A:1403:VAL:HA	1:A:1409:ARG:CZ	2.49	0.43
1:A:1406:SER:OG	1:A:1407:GLU:OE1	2.34	0.43
1:A:1510:LEU:HD12	1:A:1511:SER:N	2.34	0.43
1:A:1617:ALA:HB2	1:A:1693:TYR:HB2	2.01	0.43
1:C:1607:HIS:CB	1:C:1616:ALA:HB2	2.46	0.43
1:C:1718:ARG:HD2	1:C:1720:TYR:OH	2.18	0.43
1:C:1802:ILE:CG2	1:C:1821:GLN:HG3	2.49	0.43
1:C:1903:GLU:O	1:C:1907:GLU:OE1	2.36	0.43
1:E:129:TYR:O	1:E:135:SER:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:277:ILE:HA	1:E:343:GLU:O	2.18	0.43
1:E:824:ASP:OD2	1:E:826:ARG:HB2	2.19	0.43
1:E:968:ILE:O	1:E:972:VAL:HG22	2.19	0.43
1:E:1027:ARG:HH11	1:E:1031:SER:CB	2.32	0.43
1:E:1058:ASN:ND2	1:E:1109:LEU:HB2	2.33	0.43
1:E:1122:GLU:OE1	1:E:1124:GLU:HG3	2.19	0.43
1:E:1474:ILE:CG2	1:E:1476:THR:HG22	2.49	0.43
1:E:1931:GLN:NE2	2:F:56:TRP:CH2	2.87	0.43
1:E:2005:ARG:HD3	1:E:2005:ARG:HA	1.72	0.43
1:G:544:HIS:HB2	1:G:777:HIS:NE2	2.32	0.43
1:G:718:HIS:CD2	1:G:719:PRO:HD2	2.53	0.43
1:G:784:VAL:HG13	1:G:908:LEU:CD1	2.49	0.43
1:G:1845:TYR:CE1	1:G:1883:PRO:HD2	2.54	0.43
1:A:1002:SER:OG	1:A:1003:ASP:N	2.51	0.43
1:A:1049:CYS:C	1:A:1051:HIS:H	2.27	0.43
1:A:1283:ARG:O	1:A:1287:LEU:HG	2.18	0.43
1:A:1413:LEU:HA	1:A:1416:VAL:HG22	2.01	0.43
1:C:772:LEU:HD23	1:C:772:LEU:HA	1.76	0.43
1:C:1058:ASN:ND2	1:C:1109:LEU:HB2	2.33	0.43
1:C:1113:LEU:HD11	1:C:1139:VAL:HG22	2.01	0.43
1:C:1786:LEU:HB2	1:C:1790:TYR:HE1	1.84	0.43
1:C:1854:THR:OG1	1:C:1854:THR:O	2.37	0.43
1:C:1873:LYS:HD3	1:C:1873:LYS:HA	1.85	0.43
1:C:2005:ARG:HD3	1:C:2005:ARG:HA	1.72	0.43
2:D:5:LYS:HD3	2:D:74:GLN:O	2.19	0.43
1:E:915:GLN:O	1:E:919:SER:N	2.52	0.43
1:E:1761:PHE:HB3	1:E:1764:LEU:CB	2.44	0.43
2:F:8:VAL:C	2:F:16:LYS:HZ1	2.27	0.43
2:F:80:ILE:O	2:F:112:LEU:HA	2.19	0.43
2:F:94:ARG:HE	2:F:145:MET:HE3	1.84	0.43
2:F:97:TRP:CD1	2:F:100:GLU:OE1	2.72	0.43
2:F:125:THR:HA	2:F:128:LYS:HG2	2.01	0.43
1:G:125:ARG:HH22	1:G:1003:ASP:HA	1.83	0.43
1:G:215:VAL:O	1:G:219:ASN:ND2	2.52	0.43
1:G:247:CYS:HA	1:G:826:ARG:NH1	2.34	0.43
1:G:252:PRO:HB2	1:G:254:ARG:CZ	2.49	0.43
1:G:509:PHE:CE2	1:G:523:ASP:HB2	2.50	0.43
1:G:824:ASP:OD2	1:G:826:ARG:HB2	2.19	0.43
1:G:834:ALA:O	1:G:838:TYR:HB2	2.19	0.43
1:G:951:ARG:NE	1:G:954:THR:HG21	2.33	0.43
1:G:1501:ARG:O	1:G:1505:GLN:OE1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1653:ASN:CG	1:G:1881:ALA:H	2.25	0.43
1:G:1824:TYR:CE1	2:H:26:ASN:O	2.72	0.43
1:G:1872:ARG:NH1	1:G:1896:GLU:HG2	2.34	0.43
2:H:140:PRO:HA	2:H:143:LEU:HD22	1.99	0.43
1:A:152:GLN:H	1:A:152:GLN:CD	2.26	0.42
1:A:252:PRO:HB2	1:A:254:ARG:NH1	2.33	0.42
1:A:1051:HIS:CE1	1:A:1053:HIS:H	2.37	0.42
1:A:1557:ASN:O	1:A:1561:ILE:HG12	2.19	0.42
1:A:1595:LEU:O	1:A:1599:TRP:HD1	2.02	0.42
1:C:215:VAL:O	1:C:219:ASN:ND2	2.52	0.42
1:C:1021:TYR:HA	1:C:1024:VAL:CG1	2.47	0.42
1:C:1027:ARG:HH11	1:C:1031:SER:CB	2.32	0.42
1:C:1285:LEU:HD23	1:C:1288:LEU:HD12	2.01	0.42
1:C:1400:VAL:O	1:C:1403:VAL:HB	2.19	0.42
1:C:1595:LEU:O	1:C:1599:TRP:HD1	2.02	0.42
1:E:1113:LEU:HD11	1:E:1139:VAL:HG22	2.01	0.42
1:E:1142:LEU:HG	1:E:1146:HIS:NE2	2.33	0.42
1:E:1430:ALA:O	1:E:1434:GLN:HG3	2.19	0.42
1:E:1595:LEU:O	1:E:1599:TRP:HD1	2.02	0.42
2:F:5:LYS:HB3	2:F:76:ASP:HB2	2.01	0.42
1:G:252:PRO:HB2	1:G:254:ARG:NH1	2.33	0.42
1:G:281:LEU:HD22	1:G:338:LEU:HD21	2.00	0.42
1:G:785:ARG:NH2	1:G:789:ARG:HH11	2.16	0.42
1:G:1139:VAL:O	1:G:1143:LEU:HD23	2.19	0.42
1:G:1142:LEU:HG	1:G:1146:HIS:NE2	2.33	0.42
1:G:1551:VAL:HG12	1:G:1555:MET:CE	2.49	0.42
1:G:1552:GLN:HA	1:G:1555:MET:HG2	2.01	0.42
1:G:1676:LYS:HG3	1:G:1677:HIS:N	2.33	0.42
1:A:743:LEU:HG	1:A:744:LYS:H	1.84	0.42
1:A:824:ASP:OD2	1:A:826:ARG:HB2	2.19	0.42
1:A:1727:HIS:CG	1:C:1734:PHE:CD2	3.07	0.42
1:A:1802:ILE:CG2	1:A:1821:GLN:HG3	2.49	0.42
1:C:239:ASP:OD2	1:C:1137:SER:HB2	2.18	0.42
1:C:252:PRO:HB2	1:C:254:ARG:NH1	2.33	0.42
1:C:283:LEU:HB3	1:C:293:SER:HB2	2.01	0.42
1:C:574:VAL:HG12	1:C:602:ALA:HB3	2.00	0.42
1:C:820:GLU:HA	1:C:823:GLN:HG3	2.01	0.42
1:C:1150:PRO:HA	1:C:1153:ALA:HB2	2.01	0.42
1:C:1260:VAL:O	1:C:1264:THR:OG1	2.30	0.42
1:C:1500:ALA:HA	1:C:1503:LYS:HE2	2.00	0.42
1:C:1727:HIS:O	1:C:1731:GLN:CD	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:112:LEU:HG	2:D:154:TYR:HE1	1.84	0.42
1:E:47:LEU:HD12	1:E:1115:THR:HG23	2.01	0.42
1:E:224:ARG:NH1	1:E:227:ARG:HH22	2.17	0.42
1:E:834:ALA:O	1:E:838:TYR:HB2	2.19	0.42
1:E:1539:ASP:HB3	1:E:1547:PHE:HZ	1.83	0.42
1:E:1600:LEU:HA	1:E:1603:MET:CE	2.49	0.42
1:E:1737:ILE:HD13	1:E:1737:ILE:HA	1.90	0.42
1:E:1872:ARG:HB3	1:E:1896:GLU:OE2	2.20	0.42
1:G:47:LEU:HD12	1:G:1115:THR:HG23	2.02	0.42
1:G:239:ASP:OD2	1:G:1137:SER:HB2	2.18	0.42
1:G:252:PRO:O	1:G:254:ARG:HG2	2.19	0.42
1:G:912:LEU:C	1:G:912:LEU:HD12	2.44	0.42
1:G:1600:LEU:HA	1:G:1603:MET:CE	2.49	0.42
1:G:1695:THR:HA	1:G:1700:TYR:HE1	1.82	0.42
1:G:1722:LYS:O	1:G:1726:VAL:HG12	2.20	0.42
1:G:1727:HIS:O	1:G:1731:GLN:CD	2.63	0.42
1:G:1786:LEU:HB2	1:G:1790:TYR:HE1	1.84	0.42
1:G:1809:ASP:HB2	1:G:1812:LYS:HE2	2.00	0.42
2:H:98:TYR:OH	2:H:102:ARG:NH1	2.51	0.42
1:A:1139:VAL:O	1:A:1143:LEU:HD23	2.19	0.42
1:A:1722:LYS:O	1:A:1726:VAL:HG12	2.20	0.42
1:A:1753:ARG:HE	1:A:1823:THR:CB	2.33	0.42
1:A:1845:TYR:CE1	1:A:1883:PRO:HD2	2.54	0.42
2:B:88:ALA:O	2:B:92:ASN:ND2	2.53	0.42
1:C:125:ARG:HH22	1:C:1003:ASP:HA	1.83	0.42
1:C:128:GLN:O	1:C:134:TYR:HB2	2.19	0.42
1:C:656:PHE:HB2	1:C:681:PRO:HD3	2.01	0.42
1:C:1059:LEU:CD1	1:C:1062:CYS:HB3	2.48	0.42
1:C:1396:LEU:O	1:C:1400:VAL:HG23	2.19	0.42
2:D:94:ARG:HE	2:D:145:MET:CE	2.31	0.42
1:E:614:GLU:H	1:E:614:GLU:CD	2.26	0.42
1:E:683:PRO:O	1:E:684:SER:OG	2.27	0.42
1:E:1501:ARG:O	1:E:1505:GLN:OE1	2.36	0.42
1:E:1757:TYR:CE1	1:E:1808:VAL:HG21	2.55	0.42
1:E:1954:LEU:HA	1:E:1971:ARG:NH1	2.34	0.42
1:G:574:VAL:HG12	1:G:602:ALA:HB3	2.00	0.42
1:G:683:PRO:HA	1:G:685:TYR:CD1	2.55	0.42
1:G:915:GLN:O	1:G:919:SER:N	2.52	0.42
1:G:1113:LEU:HD11	1:G:1139:VAL:HG22	2.01	0.42
1:G:1510:LEU:HD12	1:G:1511:SER:N	2.34	0.42
1:G:1802:ILE:CG2	1:G:1821:GLN:HG3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1848:ARG:HG3	1:G:1878:THR:OG1	2.19	0.42
2:H:94:ARG:HE	2:H:145:MET:CE	2.31	0.42
1:A:125:ARG:NH2	1:A:1003:ASP:OD1	2.49	0.42
1:A:1158:LYS:O	1:A:1159:ALA:C	2.62	0.42
1:A:1430:ALA:O	1:A:1434:GLN:HG3	2.19	0.42
1:A:1552:GLN:O	1:A:1555:MET:HG2	2.19	0.42
1:A:1552:GLN:HA	1:A:1555:MET:HG2	2.01	0.42
1:A:1987:LYS:HZ2	1:A:1991:LEU:HD11	1.83	0.42
2:B:5:LYS:HB3	2:B:76:ASP:HB2	2.01	0.42
2:B:16:LYS:NZ	2:B:58:THR:H	2.14	0.42
2:B:112:LEU:HG	2:B:154:TYR:HE1	1.84	0.42
2:B:169:PHE:O	2:B:173:ILE:HG12	2.19	0.42
1:C:244:VAL:H	1:C:246:ARG:HH11	1.66	0.42
1:C:281:LEU:HD22	1:C:338:LEU:HD21	2.00	0.42
1:C:834:ALA:O	1:C:838:TYR:HB2	2.19	0.42
1:C:968:ILE:O	1:C:972:VAL:HG22	2.18	0.42
1:C:1173:ARG:HA	1:C:1287:LEU:HD11	2.02	0.42
1:C:1421:LEU:HD21	1:C:1462:LEU:HA	2.01	0.42
1:C:1856:PHE:HA	1:C:1862:ALA:HA	2.00	0.42
2:D:128:LYS:HA	2:D:131:GLU:OE1	2.18	0.42
1:E:142:GLN:O	1:E:146:GLN:HG2	2.18	0.42
1:E:252:PRO:HB2	1:E:254:ARG:CZ	2.49	0.42
1:E:634:LEU:HD21	1:E:656:PHE:CD1	2.53	0.42
1:E:820:GLU:HA	1:E:823:GLN:HG3	2.01	0.42
1:E:951:ARG:NE	1:E:954:THR:HG21	2.33	0.42
1:E:1064:LEU:HG	1:E:1106:GLN:HG2	2.02	0.42
1:E:1139:VAL:O	1:E:1143:LEU:HD23	2.20	0.42
1:E:1403:VAL:HA	1:E:1409:ARG:CZ	2.49	0.42
1:E:1575:PRO:O	1:E:1579:ILE:HD12	2.19	0.42
1:G:155:GLU:HG2	1:G:156:GLN:N	2.34	0.42
1:G:224:ARG:NH1	1:G:227:ARG:HH22	2.17	0.42
1:G:724:LEU:HB3	1:G:728:PHE:CE2	2.54	0.42
1:G:1462:LEU:HD21	1:G:1488:LEU:HD21	2.01	0.42
1:A:142:GLN:O	1:A:146:GLN:HG2	2.19	0.42
1:A:216:ASP:O	1:A:220:GLU:OE1	2.37	0.42
1:A:656:PHE:HB2	1:A:681:PRO:HD3	2.01	0.42
1:A:726:LYS:HZ2	1:A:760:SER:HB3	1.84	0.42
1:A:1113:LEU:HD11	1:A:1139:VAL:HG22	2.01	0.42
1:A:1168:LEU:HA	1:A:1171:ILE:HD12	2.01	0.42
1:A:1501:ARG:O	1:A:1505:GLN:OE1	2.36	0.42
1:A:1757:TYR:CE1	1:A:1808:VAL:HG21	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:128:GLN:O	1:C:131:SER:N	2.40	0.42
1:C:784:VAL:HG13	1:C:908:LEU:CD1	2.49	0.42
1:C:1122:GLU:OE1	1:C:1124:GLU:HG3	2.19	0.42
1:C:1259:TRP:CG	1:C:1263:ASN:HD21	2.37	0.42
1:C:1403:VAL:HA	1:C:1409:ARG:CZ	2.49	0.42
1:C:1462:LEU:HD21	1:C:1488:LEU:HD21	2.01	0.42
1:C:1587:ARG:NH2	1:C:1590:GLN:HE22	2.12	0.42
2:D:94:ARG:HE	2:D:145:MET:HE3	1.84	0.42
1:E:211:ALA:N	1:E:214:ASP:OD1	2.53	0.42
1:E:683:PRO:HA	1:E:685:TYR:CD1	2.55	0.42
1:E:724:LEU:HB3	1:E:728:PHE:CE2	2.54	0.42
1:E:1002:SER:OG	1:E:1003:ASP:N	2.51	0.42
1:E:1462:LEU:HD21	1:E:1488:LEU:HD21	2.01	0.42
1:E:1510:LEU:HD12	1:E:1511:SER:N	2.34	0.42
1:E:1547:PHE:CG	1:E:1548:ALA:N	2.88	0.42
1:E:1552:GLN:O	1:E:1555:MET:HG2	2.20	0.42
1:E:1753:ARG:NH2	1:E:1821:GLN:HG2	2.35	0.42
1:E:1909:MET:HE1	1:E:1974:PHE:CD1	2.46	0.42
2:F:88:ALA:O	2:F:92:ASN:ND2	2.53	0.42
1:G:719:PRO:HG3	1:G:728:PHE:CD2	2.54	0.42
1:G:1027:ARG:HH11	1:G:1031:SER:CB	2.32	0.42
1:G:1430:ALA:O	1:G:1434:GLN:HG3	2.19	0.42
2:H:94:ARG:HE	2:H:145:MET:HE3	1.83	0.42
2:H:164:GLY:O	2:H:168:VAL:N	2.48	0.42
1:A:968:ILE:O	1:A:972:VAL:HG22	2.19	0.42
1:A:1285:LEU:HD23	1:A:1288:LEU:HD12	2.01	0.42
1:A:1629:GLU:O	1:A:1633:LEU:HD23	2.18	0.42
1:A:1753:ARG:NH2	1:A:1821:GLN:HG2	2.35	0.42
2:B:153:LYS:HG3	2:B:154:TYR:N	2.35	0.42
1:C:45:VAL:HG11	1:C:1101:GLY:H	1.85	0.42
1:C:252:PRO:O	1:C:254:ARG:HG2	2.19	0.42
1:C:719:PRO:HB3	1:C:728:PHE:HE2	1.84	0.42
1:C:743:LEU:HG	1:C:744:LYS:H	1.84	0.42
1:C:1430:ALA:O	1:C:1434:GLN:HG3	2.19	0.42
1:C:1453:GLU:OE1	1:C:1453:GLU:N	2.32	0.42
1:C:1613:HIS:HB2	1:C:1697:GLY:HA3	2.02	0.42
1:C:1954:LEU:HA	1:C:1971:ARG:NH1	2.34	0.42
1:E:283:LEU:HB3	1:E:293:SER:HB2	2.01	0.42
1:E:331:TYR:CE2	1:E:538:ARG:HG2	2.55	0.42
1:E:1173:ARG:HA	1:E:1287:LEU:HD21	2.01	0.42
1:E:1259:TRP:CG	1:E:1263:ASN:HD21	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1557:ASN:HA	1:E:1560:MET:HE2	2.02	0.42
1:E:1802:ILE:CG2	1:E:1821:GLN:HG3	2.49	0.42
1:E:1848:ARG:HG3	1:E:1878:THR:OG1	2.19	0.42
1:E:1872:ARG:NH1	1:E:1896:GLU:HG2	2.34	0.42
2:F:94:ARG:HE	2:F:145:MET:CE	2.31	0.42
1:G:211:ALA:N	1:G:214:ASP:OD1	2.53	0.42
1:G:244:VAL:H	1:G:246:ARG:HH11	1.66	0.42
1:G:275:GLU:OE2	1:G:344:LYS:HB3	2.20	0.42
1:G:283:LEU:HB3	1:G:293:SER:HB2	2.01	0.42
1:G:1012:PHE:O	1:G:1015:SER:OG	2.25	0.42
1:G:1156:THR:OG1	1:G:1157:VAL:N	2.51	0.42
1:G:1173:ARG:HA	1:G:1287:LEU:HD11	2.02	0.42
1:G:1552:GLN:O	1:G:1555:MET:HG2	2.20	0.42
1:G:1968:ASN:OD1	1:G:1969:LYS:HG3	2.20	0.42
2:H:125:THR:HA	2:H:128:LYS:HG2	2.01	0.42
2:H:153:LYS:HG3	2:H:154:TYR:N	2.35	0.42
1:A:241:ASP:OD1	1:A:242:GLU:N	2.53	0.42
1:A:331:TYR:CE2	1:A:538:ARG:HG2	2.55	0.42
1:A:724:LEU:HB3	1:A:728:PHE:CE2	2.54	0.42
1:A:1130:LEU:HB3	1:A:1134:LYS:NZ	2.35	0.42
1:A:1501:ARG:O	1:A:1502:VAL:C	2.62	0.42
1:A:1547:PHE:CG	1:A:1548:ALA:N	2.87	0.42
1:A:1581:LEU:O	1:A:1584:ARG:HB3	2.20	0.42
1:C:211:ALA:N	1:C:214:ASP:OD1	2.53	0.42
1:C:331:TYR:CE2	1:C:538:ARG:HG2	2.55	0.42
1:C:1002:SER:OG	1:C:1003:ASP:N	2.51	0.42
1:C:1552:GLN:O	1:C:1555:MET:HG2	2.20	0.42
1:C:1753:ARG:HE	1:C:1823:THR:CB	2.33	0.42
1:C:1848:ARG:HG3	1:C:1878:THR:OG1	2.19	0.42
1:C:1872:ARG:HB3	1:C:1896:GLU:OE2	2.19	0.42
2:D:153:LYS:HG3	2:D:154:TYR:N	2.35	0.42
1:E:128:GLN:O	1:E:134:TYR:HB2	2.19	0.42
1:E:241:ASP:OD1	1:E:242:GLU:N	2.53	0.42
1:E:568:ARG:NH2	1:E:643:GLN:HG3	2.35	0.42
1:E:604:THR:HG21	1:E:615:PHE:HD1	1.85	0.42
1:E:907:LEU:HB2	1:E:909:HIS:CE1	2.55	0.42
1:E:1059:LEU:CD1	1:E:1062:CYS:HB3	2.48	0.42
1:E:1551:VAL:HG12	1:E:1555:MET:CE	2.49	0.42
1:E:1629:GLU:O	1:E:1633:LEU:HD23	2.19	0.42
1:E:1937:SER:HA	2:F:37:PHE:CE2	2.55	0.42
2:F:96:LYS:C	2:F:99:PRO:HD2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:820:GLU:HA	1:G:823:GLN:HG3	2.01	0.42
1:G:1149:ASP:HB3	1:G:1152:TYR:HB2	2.02	0.42
1:G:1259:TRP:CG	1:G:1263:ASN:HD21	2.37	0.42
1:G:1486:TYR:HA	1:G:1489:MET:HE3	2.00	0.42
1:G:1565:THR:HA	1:G:1568:MET:HG2	2.02	0.42
1:G:1581:LEU:O	1:G:1584:ARG:HB3	2.20	0.42
1:G:1677:HIS:O	1:G:1679:THR:N	2.40	0.42
2:H:5:LYS:HB3	2:H:76:ASP:HB2	2.01	0.42
1:A:555:PRO:HD2	1:A:617:GLU:O	2.20	0.42
1:A:683:PRO:HA	1:A:685:TYR:CD1	2.55	0.42
1:A:834:ALA:O	1:A:838:TYR:HB2	2.19	0.42
1:A:907:LEU:HB2	1:A:909:HIS:CE1	2.55	0.42
1:A:1776:ILE:CD1	2:B:45:MET:HG2	2.50	0.42
1:A:1785:ARG:O	1:A:1789:PHE:CD2	2.73	0.42
1:C:47:LEU:HD12	1:C:1115:THR:HG23	2.02	0.42
1:C:155:GLU:HG2	1:C:156:GLN:N	2.34	0.42
1:C:517:HIS:HB3	1:C:521:TYR:CG	2.55	0.42
1:C:1809:ASP:O	1:C:1813:LEU:HG	2.20	0.42
2:D:98:TYR:OH	2:D:102:ARG:NH1	2.52	0.42
1:E:51:VAL:O	1:E:1018:ARG:NE	2.52	0.42
1:E:743:LEU:HG	1:E:744:LYS:H	1.84	0.42
1:E:1101:GLY:HA2	1:E:1104:ARG:HG2	2.02	0.42
1:E:1156:THR:OG1	1:E:1157:VAL:N	2.51	0.42
1:E:1168:LEU:HA	1:E:1171:ILE:HD12	2.01	0.42
1:E:1396:LEU:O	1:E:1400:VAL:HG23	2.19	0.42
1:E:1753:ARG:HE	1:E:1823:THR:CB	2.33	0.42
1:E:1824:TYR:CE1	2:F:27:ALA:HA	2.54	0.42
1:E:1845:TYR:CE1	1:E:1883:PRO:HD2	2.54	0.42
2:F:9:VAL:HG12	2:F:78:PHE:CZ	2.53	0.42
1:G:54:LEU:HB3	1:G:59:VAL:HG21	2.02	0.42
1:G:262:LEU:HG	1:G:264:LYS:HZ3	1.85	0.42
1:G:278:PHE:HE2	1:G:391:ARG:HD2	1.85	0.42
1:G:466:ARG:N	1:G:614:GLU:OE2	2.40	0.42
1:G:668:ARG:HD2	1:G:672:PHE:HZ	1.85	0.42
1:G:1009:ASP:O	1:G:1013:VAL:HG23	2.20	0.42
1:G:1500:ALA:HA	1:G:1503:LYS:HE2	2.00	0.42
1:G:1534:THR:O	1:G:1538:GLU:HG2	2.20	0.42
1:G:1718:ARG:HD2	1:G:1720:TYR:OH	2.19	0.42
1:G:1772:LYS:HZ1	1:G:1883:PRO:HA	1.83	0.42
2:H:5:LYS:HD3	2:H:74:GLN:O	2.19	0.42
2:H:97:TRP:CD1	2:H:100:GLU:OE1	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:GLU:HG2	1:A:156:GLN:N	2.34	0.42
1:A:517:HIS:HB3	1:A:521:TYR:CG	2.55	0.42
1:A:1022:LYS:O	1:A:1026:THR:HG23	2.20	0.42
1:A:1486:TYR:HA	1:A:1489:MET:HE3	2.00	0.42
1:A:1600:LEU:HA	1:A:1603:MET:CE	2.49	0.42
2:B:80:ILE:O	2:B:112:LEU:HA	2.19	0.42
1:C:386:ARG:HA	1:C:386:ARG:HD3	1.89	0.42
1:C:405:VAL:HG13	1:C:449:PHE:CD1	2.55	0.42
1:C:724:LEU:HB3	1:C:728:PHE:CE2	2.54	0.42
1:C:912:LEU:C	1:C:912:LEU:HD12	2.45	0.42
1:C:1130:LEU:HB3	1:C:1134:LYS:NZ	2.35	0.42
1:C:1139:VAL:O	1:C:1143:LEU:HD23	2.19	0.42
1:C:1547:PHE:CG	1:C:1548:ALA:N	2.88	0.42
1:C:1551:VAL:HG12	1:C:1555:MET:CE	2.49	0.42
1:C:1722:LYS:O	1:C:1726:VAL:HG12	2.20	0.42
1:C:1785:ARG:O	1:C:1789:PHE:CD2	2.73	0.42
2:D:88:ALA:O	2:D:92:ASN:ND2	2.53	0.42
1:E:1501:ARG:O	1:E:1502:VAL:C	2.62	0.42
1:E:1510:LEU:HD11	1:E:1558:LEU:HD22	2.02	0.42
1:E:1534:THR:O	1:E:1538:GLU:HG2	2.20	0.42
1:E:1684:VAL:O	1:E:1688:GLU:HG3	2.20	0.42
1:E:1718:ARG:HD2	1:E:1720:TYR:OH	2.19	0.42
1:E:1886:LYS:HE3	1:E:1886:LYS:HB3	1.91	0.42
1:G:51:VAL:O	1:G:1018:ARG:NE	2.52	0.42
1:G:115:MET:HB3	1:G:778:HIS:HE1	1.84	0.42
1:G:128:GLN:O	1:G:131:SER:N	2.40	0.42
1:G:204:PRO:C	1:G:206:LEU:H	2.27	0.42
1:G:743:LEU:HG	1:G:744:LYS:H	1.84	0.42
1:G:1525:LEU:C	1:G:1528:SER:HG	2.19	0.42
1:G:1613:HIS:HB2	1:G:1697:GLY:HA3	2.02	0.42
1:G:1757:TYR:CE1	1:G:1808:VAL:HG21	2.55	0.42
1:A:223:ARG:HE	1:A:1394:ASP:CG	2.21	0.42
1:A:252:PRO:O	1:A:254:ARG:HG2	2.19	0.42
1:A:909:HIS:HA	1:A:912:LEU:CD2	2.50	0.42
1:A:951:ARG:HD3	1:A:959:ARG:NH2	2.30	0.42
1:A:1390:LEU:O	1:A:1393:LEU:HB3	2.20	0.42
1:A:1551:VAL:HG12	1:A:1555:MET:CE	2.49	0.42
1:A:1565:THR:HA	1:A:1568:MET:HG2	2.02	0.42
1:A:1718:ARG:HD2	1:A:1720:TYR:OH	2.19	0.42
1:A:1727:HIS:O	1:A:1731:GLN:CD	2.63	0.42
1:A:1968:ASN:OD1	1:A:1969:LYS:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:96:LYS:C	2:B:99:PRO:HD2	2.45	0.42
1:C:826:ARG:O	1:C:992:HIS:NE2	2.53	0.42
1:C:1049:CYS:HA	1:C:1054:TYR:CD2	2.55	0.42
1:C:1510:LEU:HD11	1:C:1558:LEU:HD22	2.02	0.42
1:C:1557:ASN:HA	1:C:1560:MET:HE2	2.02	0.42
1:C:1676:LYS:HG3	1:C:1677:HIS:N	2.33	0.42
2:D:96:LYS:C	2:D:99:PRO:HD2	2.45	0.42
1:E:54:LEU:HB3	1:E:59:VAL:HG21	2.02	0.42
1:E:204:PRO:C	1:E:206:LEU:H	2.27	0.42
1:E:216:ASP:O	1:E:220:GLU:OE1	2.37	0.42
1:E:1785:ARG:O	1:E:1789:PHE:CD2	2.73	0.42
1:E:1869:GLN:N	1:E:1901:PRO:HB3	2.35	0.42
1:G:241:ASP:OD1	1:G:242:GLU:N	2.53	0.42
1:G:1049:CYS:C	1:G:1051:HIS:H	2.27	0.42
1:G:1058:ASN:ND2	1:G:1109:LEU:HB2	2.33	0.42
1:G:1617:ALA:HB2	1:G:1693:TYR:HB2	2.01	0.42
1:A:45:VAL:HG11	1:A:1101:GLY:H	1.85	0.41
1:A:211:ALA:N	1:A:214:ASP:OD1	2.53	0.41
1:A:281:LEU:HD22	1:A:338:LEU:HD21	2.00	0.41
1:A:668:ARG:HD2	1:A:672:PHE:HZ	1.85	0.41
1:A:923:VAL:O	1:A:927:ILE:HG12	2.21	0.41
1:A:951:ARG:CD	1:A:959:ARG:HH21	2.31	0.41
1:A:1371:LYS:O	1:A:1375:GLU:HG2	2.20	0.41
1:A:1462:LEU:HD21	1:A:1488:LEU:HD21	2.01	0.41
1:A:1557:ASN:HA	1:A:1560:MET:HE2	2.02	0.41
2:B:97:TRP:CD1	2:B:100:GLU:OE1	2.72	0.41
1:C:146:GLN:HE21	1:C:234:LEU:HA	1.85	0.41
1:C:555:PRO:HD2	1:C:617:GLU:O	2.20	0.41
1:C:634:LEU:HD21	1:C:656:PHE:CD1	2.53	0.41
1:C:909:HIS:HA	1:C:912:LEU:CD2	2.50	0.41
1:C:1371:LYS:O	1:C:1375:GLU:HG2	2.20	0.41
1:C:1501:ARG:O	1:C:1502:VAL:C	2.62	0.41
1:C:1505:GLN:HA	1:C:1508:MET:CG	2.43	0.41
1:C:1869:GLN:N	1:C:1901:PRO:HB3	2.35	0.41
1:E:75:LEU:HB2	1:E:1061:CYS:SG	2.60	0.41
1:E:224:ARG:HG3	1:E:227:ARG:NH1	2.30	0.41
1:E:331:TYR:HD2	1:E:537:ALA:HB3	1.84	0.41
1:E:517:HIS:HB3	1:E:521:TYR:CG	2.55	0.41
1:E:656:PHE:HB2	1:E:681:PRO:HD3	2.01	0.41
1:E:668:ARG:HD2	1:E:672:PHE:HZ	1.85	0.41
1:E:785:ARG:NH2	1:E:789:ARG:HH11	2.16	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:912:LEU:C	1:E:912:LEU:HD12	2.45	0.41
1:E:1143:LEU:HA	1:E:1143:LEU:HD13	1.89	0.41
1:E:1371:LYS:O	1:E:1375:GLU:HG2	2.20	0.41
1:E:1613:HIS:HB2	1:E:1697:GLY:HA3	2.02	0.41
1:E:1809:ASP:O	1:E:1813:LEU:HG	2.20	0.41
1:E:1829:PHE:CE1	1:E:1837:ARG:HD3	2.55	0.41
2:F:112:LEU:HG	2:F:154:TYR:HE1	1.84	0.41
1:G:75:LEU:HB2	1:G:1061:CYS:SG	2.60	0.41
1:G:1122:GLU:OE1	1:G:1124:GLU:HG3	2.19	0.41
1:G:1285:LEU:HD23	1:G:1288:LEU:HD12	2.01	0.41
1:G:1390:LEU:O	1:G:1393:LEU:HB3	2.20	0.41
1:G:1403:VAL:HA	1:G:1409:ARG:CZ	2.49	0.41
1:G:1595:LEU:O	1:G:1599:TRP:HD1	2.02	0.41
1:G:1733:ALA:O	1:G:1737:ILE:HG12	2.20	0.41
1:G:1809:ASP:O	1:G:1813:LEU:HG	2.20	0.41
2:H:88:ALA:O	2:H:92:ASN:ND2	2.53	0.41
2:H:96:LYS:C	2:H:99:PRO:HD2	2.45	0.41
1:A:75:LEU:HB2	1:A:1061:CYS:SG	2.60	0.41
1:A:286:VAL:HG12	1:A:473:PHE:CD1	2.56	0.41
1:A:405:VAL:HG13	1:A:449:PHE:CD1	2.55	0.41
1:A:957:LYS:HE2	1:A:957:LYS:HB2	1.83	0.41
1:A:1064:LEU:HG	1:A:1106:GLN:HG2	2.02	0.41
1:A:1165:TYR:C	1:A:1167:PRO:HD2	2.46	0.41
1:A:1431:LEU:HD13	1:A:1434:GLN:OE1	2.20	0.41
1:A:1733:ALA:O	1:A:1737:ILE:HG12	2.20	0.41
1:A:1848:ARG:HG3	1:A:1878:THR:OG1	2.19	0.41
1:C:54:LEU:HB3	1:C:59:VAL:HG21	2.02	0.41
1:C:668:ARG:HD2	1:C:672:PHE:HZ	1.85	0.41
1:C:1049:CYS:C	1:C:1051:HIS:H	2.27	0.41
1:C:1581:LEU:O	1:C:1584:ARG:HB3	2.20	0.41
1:C:1757:TYR:CE1	1:C:1808:VAL:HG21	2.55	0.41
2:D:161:THR:HG22	2:D:163:ARG:CD	2.43	0.41
1:E:252:PRO:O	1:E:254:ARG:HG2	2.19	0.41
1:E:719:PRO:HG3	1:E:728:PHE:CD2	2.54	0.41
1:E:1022:LYS:O	1:E:1026:THR:HG23	2.20	0.41
1:E:1158:LYS:O	1:E:1159:ALA:C	2.62	0.41
1:E:1165:TYR:C	1:E:1167:PRO:HD2	2.45	0.41
1:E:1390:LEU:O	1:E:1393:LEU:HB3	2.20	0.41
1:E:1406:SER:OG	1:E:1407:GLU:OE1	2.34	0.41
1:E:1413:LEU:HA	1:E:1416:VAL:HG22	2.01	0.41
1:E:1421:LEU:HD21	1:E:1462:LEU:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1722:LYS:O	1:E:1726:VAL:HG12	2.20	0.41
1:E:1772:LYS:H	1:E:1772:LYS:HG2	1.66	0.41
1:E:1906:ILE:O	1:E:1910:GLN:NE2	2.40	0.41
1:E:1968:ASN:OD1	1:E:1969:LYS:HG3	2.20	0.41
2:F:5:LYS:HD3	2:F:74:GLN:O	2.19	0.41
1:G:405:VAL:HG13	1:G:449:PHE:CD1	2.55	0.41
1:G:1168:LEU:HA	1:G:1171:ILE:HD12	2.01	0.41
1:G:1371:LYS:O	1:G:1375:GLU:HG2	2.20	0.41
1:G:1547:PHE:CG	1:G:1548:ALA:N	2.87	0.41
1:G:1802:ILE:HG21	1:G:1821:GLN:HG3	2.03	0.41
1:A:47:LEU:HD12	1:A:1115:THR:HG23	2.02	0.41
1:A:51:VAL:O	1:A:1018:ARG:NE	2.52	0.41
1:A:568:ARG:NH2	1:A:643:GLN:HG3	2.35	0.41
1:A:604:THR:HG21	1:A:615:PHE:HD1	1.85	0.41
1:A:820:GLU:HA	1:A:823:GLN:HG3	2.01	0.41
1:A:912:LEU:HD12	1:A:912:LEU:C	2.45	0.41
1:A:1009:ASP:O	1:A:1013:VAL:HG23	2.20	0.41
1:A:1720:TYR:O	1:C:1738:MET:CE	2.68	0.41
1:C:683:PRO:HA	1:C:685:TYR:CD1	2.54	0.41
1:C:951:ARG:CD	1:C:959:ARG:HH21	2.31	0.41
1:C:957:LYS:HE2	1:C:957:LYS:HB2	1.84	0.41
1:C:1285:LEU:HD23	1:C:1285:LEU:HA	1.82	0.41
1:C:1751:TYR:CD2	1:C:1772:LYS:HA	2.55	0.41
1:C:1753:ARG:NH2	1:C:1821:GLN:HG2	2.35	0.41
2:D:164:GLY:O	2:D:168:VAL:N	2.48	0.41
1:E:45:VAL:HG11	1:E:1101:GLY:H	1.85	0.41
1:E:103:GLU:H	1:E:103:GLU:CD	2.28	0.41
1:E:275:GLU:OE2	1:E:344:LYS:HB3	2.20	0.41
1:E:1620:MET:HB2	1:E:1620:MET:HE3	1.41	0.41
1:G:719:PRO:HB3	1:G:728:PHE:HE2	1.84	0.41
1:G:907:LEU:HB2	1:G:909:HIS:CE1	2.55	0.41
1:G:1271:ARG:O	1:G:1274:THR:HB	2.21	0.41
1:G:1569:LYS:HE2	1:G:1569:LYS:HA	2.02	0.41
1:G:1684:VAL:O	1:G:1688:GLU:HG3	2.20	0.41
1:G:1753:ARG:HE	1:G:1823:THR:CB	2.33	0.41
1:G:1785:ARG:O	1:G:1789:PHE:CD2	2.73	0.41
2:H:1:MET:HB3	2:H:2:GLN:H	1.65	0.41
2:H:112:LEU:HG	2:H:154:TYR:HE1	1.84	0.41
1:A:115:MET:HB3	1:A:778:HIS:HE1	1.84	0.41
1:A:246:ARG:O	1:A:248:SER:N	2.53	0.41
1:A:1151:ARG:NH2	1:A:1152:TYR:OH	2.30	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1508:MET:O	1:A:1511:SER:OG	2.36	0.41
1:A:1534:THR:O	1:A:1538:GLU:HG2	2.20	0.41
1:A:1837:ARG:HG2	1:A:1842:ASP:OD1	2.20	0.41
1:A:1869:GLN:N	1:A:1901:PRO:HB3	2.35	0.41
1:A:1937:SER:HA	2:B:37:PHE:CZ	2.54	0.41
2:B:5:LYS:HD3	2:B:74:GLN:O	2.19	0.41
2:B:8:VAL:C	2:B:16:LYS:HZ1	2.28	0.41
2:B:66:ARG:C	2:B:69:PRO:HD2	2.45	0.41
2:B:125:THR:HA	2:B:128:LYS:HG2	2.01	0.41
1:C:51:VAL:O	1:C:1018:ARG:NE	2.52	0.41
1:C:231:LEU:O	1:C:234:LEU:N	2.40	0.41
1:C:246:ARG:O	1:C:248:SER:N	2.53	0.41
1:C:286:VAL:HG12	1:C:473:PHE:CD1	2.56	0.41
1:C:568:ARG:NH2	1:C:643:GLN:HG3	2.35	0.41
1:C:576:TYR:HE2	1:C:578:THR:HG22	1.85	0.41
1:C:1009:ASP:O	1:C:1013:VAL:HG23	2.20	0.41
1:C:1390:LEU:O	1:C:1393:LEU:HB3	2.20	0.41
1:C:1534:THR:O	1:C:1538:GLU:HG2	2.20	0.41
1:C:1552:GLN:HA	1:C:1555:MET:HG2	2.01	0.41
1:C:1600:LEU:HA	1:C:1603:MET:CE	2.49	0.41
1:E:511:LEU:HB2	1:E:530:LYS:HG2	2.02	0.41
1:E:592:LYS:N	1:E:595:CYS:SG	2.94	0.41
1:E:816:HIS:CD2	1:E:829:CYS:HB2	2.56	0.41
1:E:1400:VAL:O	1:E:1403:VAL:HB	2.19	0.41
1:E:1533:LEU:O	1:E:1536:ALA:N	2.54	0.41
1:E:1587:ARG:NH2	1:E:1590:GLN:HE22	2.12	0.41
1:E:1617:ALA:HB2	1:E:1693:TYR:HB2	2.01	0.41
1:E:1932:MET:SD	2:F:56:TRP:CD2	3.13	0.41
1:E:1936:GLY:O	1:E:1940:PRO:HD3	2.21	0.41
1:G:331:TYR:CE2	1:G:538:ARG:HG2	2.55	0.41
1:G:1130:LEU:HB3	1:G:1134:LYS:NZ	2.35	0.41
1:G:1533:LEU:O	1:G:1536:ALA:N	2.53	0.41
1:G:1772:LYS:HZ3	1:G:1883:PRO:HA	1.85	0.41
1:A:216:ASP:O	1:A:219:ASN:N	2.53	0.41
1:A:275:GLU:OE2	1:A:344:LYS:HB3	2.20	0.41
1:A:592:LYS:N	1:A:595:CYS:SG	2.94	0.41
1:A:719:PRO:HB3	1:A:728:PHE:HE2	1.84	0.41
1:A:1684:VAL:O	1:A:1688:GLU:HG3	2.20	0.41
1:A:1809:ASP:O	1:A:1813:LEU:HG	2.20	0.41
1:A:1872:ARG:HB3	1:A:1896:GLU:OE2	2.20	0.41
1:A:1936:GLY:O	1:A:1940:PRO:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:164:GLY:O	2:B:168:VAL:N	2.48	0.41
1:C:241:ASP:OD1	1:C:242:GLU:N	2.53	0.41
1:C:1829:PHE:CE1	1:C:1837:ARG:HD3	2.55	0.41
1:C:1837:ARG:HG2	1:C:1842:ASP:OD1	2.21	0.41
1:C:1923:ASP:OD1	1:C:1924:PRO:HA	2.21	0.41
2:D:80:ILE:O	2:D:112:LEU:HA	2.19	0.41
2:D:125:THR:HA	2:D:128:LYS:HG2	2.01	0.41
1:E:105:LEU:HB3	1:E:109:VAL:HB	2.03	0.41
1:E:115:MET:HB3	1:E:778:HIS:HE1	1.84	0.41
1:E:121:VAL:HG11	1:E:841:ARG:HD2	2.03	0.41
1:E:155:GLU:HG2	1:E:156:GLN:N	2.34	0.41
1:E:909:HIS:HA	1:E:912:LEU:CD2	2.50	0.41
1:E:1012:PHE:O	1:E:1015:SER:OG	2.25	0.41
1:E:1021:TYR:HA	1:E:1024:VAL:CG1	2.47	0.41
1:E:1149:ASP:CB	1:E:1152:TYR:HB2	2.51	0.41
1:E:1149:ASP:HB3	1:E:1152:TYR:HB2	2.02	0.41
1:E:1751:TYR:CD2	1:E:1772:LYS:HA	2.55	0.41
2:F:90:PHE:CG	2:F:137:ILE:HG13	2.56	0.41
1:G:220:GLU:HB2	1:G:224:ARG:NH1	2.36	0.41
1:G:286:VAL:HG12	1:G:473:PHE:CD1	2.56	0.41
1:G:517:HIS:HB3	1:G:521:TYR:CG	2.55	0.41
1:G:656:PHE:HB2	1:G:681:PRO:HD3	2.01	0.41
1:G:816:HIS:CD2	1:G:829:CYS:HB2	2.56	0.41
1:G:909:HIS:HA	1:G:912:LEU:CD2	2.50	0.41
1:G:1059:LEU:CD1	1:G:1062:CYS:HB3	2.48	0.41
1:G:1165:TYR:C	1:G:1167:PRO:HD2	2.46	0.41
1:G:1400:VAL:O	1:G:1403:VAL:HB	2.19	0.41
1:G:1431:LEU:HD13	1:G:1434:GLN:OE1	2.20	0.41
1:G:1501:ARG:O	1:G:1502:VAL:C	2.62	0.41
1:G:1753:ARG:NH2	1:G:1821:GLN:HG2	2.35	0.41
1:A:89:PRO:HA	1:A:119:ASP:CG	2.46	0.41
1:A:220:GLU:HB2	1:A:224:ARG:NH1	2.36	0.41
1:A:231:LEU:O	1:A:234:LEU:N	2.40	0.41
1:A:826:ARG:O	1:A:992:HIS:NE2	2.53	0.41
1:A:1533:LEU:O	1:A:1534:THR:C	2.64	0.41
1:A:1587:ARG:NH2	1:A:1590:GLN:HE22	2.12	0.41
1:A:1829:PHE:CE1	1:A:1837:ARG:HD3	2.55	0.41
1:A:1930:LEU:O	1:A:1934:LEU:HD23	2.21	0.41
2:B:90:PHE:CG	2:B:137:ILE:HG13	2.56	0.41
1:C:105:LEU:HB3	1:C:109:VAL:HB	2.03	0.41
1:C:275:GLU:OE2	1:C:344:LYS:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1790:TYR:O	1:C:1794:PHE:CB	2.56	0.41
2:D:8:VAL:C	2:D:16:LYS:HZ1	2.27	0.41
2:D:66:ARG:C	2:D:69:PRO:HD2	2.45	0.41
1:E:216:ASP:O	1:E:219:ASN:N	2.53	0.41
1:E:555:PRO:HD2	1:E:617:GLU:O	2.20	0.41
1:E:719:PRO:HB3	1:E:728:PHE:HE2	1.84	0.41
1:E:1565:THR:HA	1:E:1568:MET:HG2	2.02	0.41
1:E:1569:LYS:HE2	1:E:1569:LYS:HA	2.02	0.41
1:E:1786:LEU:HB2	1:E:1790:TYR:HE1	1.84	0.41
1:E:1810:LYS:NZ	1:E:1813:LEU:O	2.48	0.41
1:E:1854:THR:OG1	1:E:1854:THR:O	2.37	0.41
1:G:45:VAL:HG11	1:G:1101:GLY:H	1.85	0.41
1:G:923:VAL:O	1:G:927:ILE:HG12	2.20	0.41
1:G:1005:LEU:HD23	1:G:1005:LEU:HA	1.77	0.41
1:G:1064:LEU:HG	1:G:1106:GLN:HG2	2.02	0.41
1:G:1829:PHE:CE1	1:G:1837:ARG:HD3	2.55	0.41
1:G:1869:GLN:N	1:G:1901:PRO:HB3	2.35	0.41
1:G:1982:GLU:HG3	1:G:2007:TYR:OH	2.21	0.41
1:G:2005:ARG:HD3	1:G:2005:ARG:HA	1.72	0.41
2:H:90:PHE:CG	2:H:137:ILE:HG13	2.56	0.41
1:A:1569:LYS:HA	1:A:1569:LYS:HE2	2.02	0.41
1:A:1811:SER:HB2	1:A:1812:LYS:NZ	2.36	0.41
1:C:511:LEU:HB2	1:C:530:LYS:HG2	2.02	0.41
1:C:558:LEU:HD12	1:C:558:LEU:HA	1.90	0.41
1:C:923:VAL:O	1:C:927:ILE:HG12	2.20	0.41
1:C:1064:LEU:HG	1:C:1106:GLN:HG2	2.02	0.41
1:C:1257:VAL:HA	1:C:1260:VAL:HG12	2.03	0.41
1:C:1431:LEU:HD13	1:C:1434:GLN:OE1	2.20	0.41
1:C:1533:LEU:O	1:C:1536:ALA:N	2.53	0.41
1:C:1569:LYS:HE2	1:C:1569:LYS:HA	2.02	0.41
1:C:1620:MET:HE3	1:C:1620:MET:HB2	1.41	0.41
1:C:1653:ASN:CG	1:C:1881:ALA:H	2.25	0.41
1:C:1802:ILE:HG21	1:C:1821:GLN:HG3	2.03	0.41
2:D:143:LEU:O	2:D:147:LYS:HG3	2.20	0.41
1:E:405:VAL:HG13	1:E:449:PHE:CD1	2.55	0.41
1:E:558:LEU:HB3	1:E:613:PRO:HD2	2.03	0.41
1:E:662:LEU:HG	1:E:665:GLY:HA2	2.03	0.41
1:E:1009:ASP:O	1:E:1013:VAL:HG23	2.20	0.41
1:E:1248:GLU:HA	1:E:1248:GLU:OE2	2.21	0.41
1:E:1431:LEU:HD13	1:E:1434:GLN:OE1	2.20	0.41
1:E:1600:LEU:HA	1:E:1603:MET:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1719:ASP:OD1	1:E:1719:ASP:N	2.53	0.41
1:G:252:PRO:HA	1:G:253:PRO:HD3	1.98	0.41
1:G:576:TYR:HE2	1:G:578:THR:HG22	1.85	0.41
1:G:604:THR:HG21	1:G:615:PHE:HD1	1.85	0.41
1:G:1149:ASP:CB	1:G:1152:TYR:HB2	2.51	0.41
1:G:1150:PRO:HA	1:G:1153:ALA:HB2	2.00	0.41
1:G:1179:LEU:HD22	1:G:1250:SER:HB2	2.03	0.41
1:G:1533:LEU:O	1:G:1534:THR:C	2.64	0.41
1:G:1596:ARG:HD2	1:G:1596:ARG:HA	1.74	0.41
1:G:1751:TYR:CD2	1:G:1772:LYS:HA	2.55	0.41
2:H:80:ILE:O	2:H:112:LEU:HA	2.19	0.41
1:A:54:LEU:HB3	1:A:59:VAL:HG21	2.02	0.41
1:A:103:GLU:H	1:A:103:GLU:CD	2.28	0.41
1:A:1173:ARG:HA	1:A:1287:LEU:HD11	2.02	0.41
1:A:1491:GLN:NE2	1:A:1492:ASN:OD1	2.54	0.41
1:A:1910:GLN:HB3	1:A:1914:ARG:NH1	2.36	0.41
1:A:1954:LEU:HA	1:A:1971:ARG:NH1	2.34	0.41
1:C:103:GLU:H	1:C:103:GLU:CD	2.28	0.41
1:C:152:GLN:OE1	1:C:152:GLN:N	2.52	0.41
1:C:832:LEU:O	1:C:835:TYR:HB3	2.21	0.41
1:C:835:TYR:O	1:C:839:ALA:N	2.43	0.41
1:C:1583:TYR:CE1	1:C:1885:ILE:HD11	2.56	0.41
1:C:1684:VAL:O	1:C:1688:GLU:HG3	2.20	0.41
1:C:1936:GLY:O	1:C:1940:PRO:HD3	2.21	0.41
2:D:170:ASP:O	2:D:174:ARG:HG2	2.21	0.41
1:E:581:ASP:HA	1:E:582:PRO:HD3	1.95	0.41
1:E:656:PHE:HB2	1:E:681:PRO:CD	2.51	0.41
1:E:1130:LEU:HB3	1:E:1134:LYS:NZ	2.35	0.41
1:E:1533:LEU:O	1:E:1534:THR:C	2.64	0.41
1:E:1552:GLN:HA	1:E:1555:MET:HG2	2.01	0.41
1:E:1583:TYR:CE1	1:E:1885:ILE:HD11	2.56	0.41
1:E:1727:HIS:O	1:E:1731:GLN:CD	2.63	0.41
2:F:66:ARG:C	2:F:69:PRO:HD2	2.45	0.41
1:G:216:ASP:O	1:G:219:ASN:N	2.53	0.41
1:G:555:PRO:HD2	1:G:617:GLU:O	2.20	0.41
1:G:979:VAL:HG22	1:G:993:LEU:CD1	2.51	0.41
1:G:1178:ARG:NE	1:G:1243:CYS:O	2.54	0.41
1:G:1248:GLU:HA	1:G:1248:GLU:OE2	2.21	0.41
1:G:1474:ILE:CG2	1:G:1476:THR:HG22	2.49	0.41
1:G:1491:GLN:NE2	1:G:1492:ASN:OD1	2.54	0.41
1:G:1761:PHE:HB3	1:G:1764:LEU:CB	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1802:ILE:HD13	1:G:1802:ILE:HA	1.98	0.41
1:A:60:LEU:HD22	1:A:61:LEU:HD22	2.03	0.41
1:A:281:LEU:HG	1:A:298:PHE:CE1	2.56	0.41
1:A:662:LEU:HG	1:A:665:GLY:HA2	2.03	0.41
1:A:816:HIS:CD2	1:A:829:CYS:HB2	2.56	0.41
1:A:832:LEU:O	1:A:835:TYR:HB3	2.21	0.41
1:A:1101:GLY:O	1:A:1105:GLN:HG3	2.21	0.41
1:A:1149:ASP:HB3	1:A:1152:TYR:HB2	2.02	0.41
1:A:1271:ARG:O	1:A:1274:THR:HB	2.21	0.41
1:A:1474:ILE:HB	1:A:1477:ILE:HD13	2.03	0.41
1:A:1533:LEU:O	1:A:1536:ALA:N	2.53	0.41
1:A:1595:LEU:O	1:A:1598:THR:OG1	2.34	0.41
1:A:1728:GLY:O	1:A:1731:GLN:N	2.54	0.41
2:B:170:ASP:O	2:B:174:ARG:HG2	2.21	0.41
1:C:78:PHE:HE2	1:C:956:ARG:HH21	1.66	0.41
1:C:216:ASP:O	1:C:219:ASN:N	2.53	0.41
1:C:553:VAL:C	1:C:554:TYR:HD1	2.29	0.41
1:C:592:LYS:N	1:C:595:CYS:SG	2.94	0.41
1:C:758:ARG:HH22	1:C:798:VAL:HG12	1.86	0.41
1:C:816:HIS:CD2	1:C:829:CYS:HB2	2.56	0.41
1:C:907:LEU:HB2	1:C:909:HIS:CE1	2.55	0.41
1:C:956:ARG:CA	1:C:959:ARG:HG2	2.44	0.41
1:C:1143:LEU:HA	1:C:1143:LEU:HD13	1.89	0.41
1:C:1728:GLY:O	1:C:1731:GLN:N	2.54	0.41
1:C:1783:SER:O	1:C:1786:LEU:HG	2.21	0.41
1:C:1811:SER:HB2	1:C:1812:LYS:NZ	2.36	0.41
1:C:1922:GLN:HG2	1:C:1925:PRO:HA	2.03	0.41
1:C:1968:ASN:OD1	1:C:1969:LYS:HG3	2.20	0.41
1:C:1982:GLU:HG3	1:C:2007:TYR:OH	2.21	0.41
1:E:125:ARG:NH2	1:E:1003:ASP:OD1	2.49	0.41
1:E:220:GLU:HB2	1:E:224:ARG:NH1	2.36	0.41
1:E:386:ARG:HB3	1:E:387:LEU:HD12	2.03	0.41
1:E:572:VAL:O	1:E:604:THR:OG1	2.22	0.41
1:E:576:TYR:HE2	1:E:578:THR:HG22	1.85	0.41
1:E:923:VAL:O	1:E:927:ILE:HG12	2.20	0.41
1:E:1173:ARG:HA	1:E:1287:LEU:HD11	2.02	0.41
1:E:1271:ARG:O	1:E:1274:THR:HB	2.21	0.41
1:E:1581:LEU:O	1:E:1584:ARG:HB3	2.20	0.41
1:E:1783:SER:O	1:E:1786:LEU:HG	2.21	0.41
1:E:1837:ARG:HG2	1:E:1842:ASP:OD1	2.21	0.41
1:E:1923:ASP:HA	1:E:1925:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:16:LYS:NZ	2:F:58:THR:H	2.15	0.41
2:F:143:LEU:O	2:F:147:LYS:HG3	2.21	0.41
2:F:153:LYS:HG3	2:F:154:TYR:N	2.35	0.41
1:G:386:ARG:HB3	1:G:387:LEU:HD12	2.03	0.41
1:G:396:TRP:CH2	1:G:479:MET:HE3	2.56	0.41
1:G:568:ARG:NH2	1:G:643:GLN:HG3	2.35	0.41
1:G:592:LYS:N	1:G:595:CYS:SG	2.94	0.41
1:G:656:PHE:HB2	1:G:681:PRO:CD	2.51	0.41
1:G:1022:LYS:O	1:G:1026:THR:HG23	2.20	0.41
1:G:1510:LEU:HD11	1:G:1558:LEU:HD22	2.02	0.41
1:G:1783:SER:O	1:G:1786:LEU:HG	2.21	0.41
1:G:1825:VAL:HB	1:G:1850:PHE:CG	2.56	0.41
1:G:1910:GLN:HB3	1:G:1914:ARG:NH1	2.36	0.41
1:G:1923:ASP:HA	1:G:1925:PRO:HD3	2.03	0.41
1:G:1930:LEU:O	1:G:1934:LEU:HD23	2.21	0.41
1:A:1012:PHE:O	1:A:1015:SER:OG	2.25	0.41
1:A:1101:GLY:HA2	1:A:1104:ARG:HG2	2.02	0.41
1:A:1178:ARG:NE	1:A:1243:CYS:O	2.54	0.41
1:A:1510:LEU:HD11	1:A:1558:LEU:HD22	2.02	0.41
1:A:1583:TYR:CE1	1:A:1885:ILE:HD11	2.56	0.41
1:A:1727:HIS:HE1	1:C:1735:THR:HG23	1.82	0.41
1:A:1734:PHE:HB3	1:C:1727:HIS:CE1	2.56	0.41
1:A:1751:TYR:HD1	1:A:1850:PHE:HZ	1.69	0.41
1:C:218:ARG:HG2	1:C:218:ARG:HH11	1.86	0.41
1:C:604:THR:HG21	1:C:615:PHE:HD1	1.85	0.41
1:C:1152:TYR:C	1:C:1157:VAL:HG11	2.46	0.41
1:C:1491:GLN:NE2	1:C:1492:ASN:OD1	2.54	0.41
1:C:1910:GLN:HB3	1:C:1914:ARG:NH1	2.36	0.41
1:E:1272:TRP:CE2	1:E:1276:LEU:HD11	2.56	0.41
2:F:46:VAL:HG23	2:F:49:LYS:HB2	2.03	0.41
1:G:105:LEU:HB3	1:G:109:VAL:HB	2.03	0.41
1:G:826:ARG:O	1:G:992:HIS:NE2	2.53	0.41
1:G:1010:ARG:HB3	1:G:1014:PHE:CZ	2.56	0.41
1:G:1101:GLY:O	1:G:1105:GLN:HG3	2.21	0.41
1:G:1426:SER:O	1:G:1428:GLN:NE2	2.54	0.41
1:G:1595:LEU:O	1:G:1598:THR:OG1	2.34	0.41
1:G:1680:GLU:O	1:G:1684:VAL:HG23	2.21	0.41
2:H:66:ARG:C	2:H:69:PRO:HD2	2.45	0.41
2:H:143:LEU:O	2:H:147:LYS:HG3	2.20	0.41
1:A:338:LEU:HB3	1:A:401:LEU:HD13	2.03	0.40
1:A:656:PHE:HB2	1:A:681:PRO:CD	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:765:ARG:HG3	1:A:766:LEU:N	2.37	0.40
1:A:956:ARG:CA	1:A:959:ARG:HG2	2.44	0.40
1:A:1027:ARG:NH1	1:A:1031:SER:HB2	2.36	0.40
1:C:278:PHE:HE2	1:C:391:ARG:HD2	1.85	0.40
1:C:558:LEU:HB3	1:C:613:PRO:HD2	2.03	0.40
1:C:942:MET:SD	1:C:960:PHE:HZ	2.44	0.40
1:C:951:ARG:HD3	1:C:959:ARG:NH2	2.30	0.40
1:C:1101:GLY:HA2	1:C:1104:ARG:HG2	2.02	0.40
1:C:1149:ASP:HB3	1:C:1152:TYR:HB2	2.02	0.40
1:C:1426:SER:O	1:C:1428:GLN:NE2	2.54	0.40
1:C:1923:ASP:HA	1:C:1925:PRO:HD3	2.03	0.40
2:D:9:VAL:HA	2:D:16:LYS:HZ1	1.87	0.40
1:E:89:PRO:HA	1:E:119:ASP:CG	2.46	0.40
1:E:286:VAL:HG12	1:E:473:PHE:CD1	2.56	0.40
1:E:288:GLU:O	1:E:290:LYS:HG2	2.21	0.40
1:E:396:TRP:CH2	1:E:479:MET:HE3	2.56	0.40
1:E:697:MET:HE3	1:E:699:TRP:HE1	1.86	0.40
1:E:800:LEU:HA	1:E:800:LEU:HD23	1.81	0.40
1:E:1179:LEU:HD22	1:E:1250:SER:HB2	2.03	0.40
1:E:1474:ILE:HB	1:E:1477:ILE:HD13	2.03	0.40
1:E:1552:GLN:HA	1:E:1555:MET:HE3	2.03	0.40
1:E:1910:GLN:HB3	1:E:1914:ARG:NH1	2.36	0.40
1:E:1948:GLU:O	1:E:1952:VAL:HG12	2.22	0.40
1:G:310:ARG:HA	1:G:310:ARG:HD2	1.91	0.40
1:G:338:LEU:HB3	1:G:401:LEU:HD13	2.03	0.40
1:G:919:SER:CB	1:G:924:ARG:HH21	2.34	0.40
1:G:1620:MET:HE3	1:G:1620:MET:HB2	1.41	0.40
1:G:1824:TYR:CD1	2:H:26:ASN:O	2.74	0.40
1:G:1837:ARG:HG2	1:G:1842:ASP:OD1	2.21	0.40
1:G:1872:ARG:HB3	1:G:1896:GLU:OE2	2.20	0.40
1:G:1920:THR:HB	1:G:1921:GLU:OE1	2.21	0.40
1:G:1923:ASP:OD1	1:G:1924:PRO:HA	2.21	0.40
1:G:1936:GLY:O	1:G:1940:PRO:HD3	2.21	0.40
1:A:396:TRP:CH2	1:A:479:MET:HE3	2.56	0.40
1:A:1613:HIS:HB2	1:A:1697:GLY:HA3	2.02	0.40
1:A:1982:GLU:HG3	1:A:2007:TYR:OH	2.21	0.40
2:B:165:LEU:HD12	2:B:165:LEU:HA	1.88	0.40
1:C:60:LEU:HD22	1:C:61:LEU:HD22	2.03	0.40
1:C:75:LEU:HB2	1:C:1061:CYS:SG	2.60	0.40
1:C:89:PRO:HA	1:C:119:ASP:CG	2.46	0.40
1:C:121:VAL:HG11	1:C:841:ARG:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:GLU:O	1:C:290:LYS:HG2	2.21	0.40
1:C:1600:LEU:C	1:C:1600:LEU:HD23	2.47	0.40
1:C:1800:GLU:OE1	1:C:1817:LYS:HG3	2.22	0.40
1:C:1872:ARG:CZ	1:C:1896:GLU:HG2	2.52	0.40
1:C:1930:LEU:O	1:C:1934:LEU:HD23	2.21	0.40
2:D:10:GLY:C	2:D:97:TRP:CZ3	2.99	0.40
2:D:11:ASP:OD1	2:D:97:TRP:CZ3	2.74	0.40
2:D:90:PHE:CG	2:D:137:ILE:HG13	2.56	0.40
1:E:278:PHE:HE2	1:E:391:ARG:HD2	1.85	0.40
1:E:826:ARG:O	1:E:992:HIS:NE2	2.53	0.40
1:E:832:LEU:O	1:E:835:TYR:HB3	2.21	0.40
1:E:933:PHE:HA	1:E:936:GLN:HE21	1.87	0.40
1:E:1406:SER:OG	1:E:1407:GLU:N	2.54	0.40
1:E:1491:GLN:NE2	1:E:1492:ASN:OD1	2.54	0.40
1:E:1985:LEU:HD13	1:E:2004:GLU:OE1	2.22	0.40
2:F:170:ASP:O	2:F:174:ARG:HG2	2.21	0.40
1:G:832:LEU:O	1:G:835:TYR:HB3	2.21	0.40
1:G:1101:GLY:HA2	1:G:1104:ARG:HG2	2.02	0.40
1:G:1557:ASN:HA	1:G:1560:MET:HE2	2.02	0.40
1:G:1561:ILE:O	1:G:1565:THR:HG23	2.21	0.40
1:G:1718:ARG:HB3	1:G:1720:TYR:CZ	2.56	0.40
1:G:1872:ARG:CZ	1:G:1896:GLU:HG2	2.52	0.40
1:G:1948:GLU:O	1:G:1952:VAL:HG12	2.22	0.40
2:H:170:ASP:O	2:H:174:ARG:HG2	2.21	0.40
1:A:697:MET:HE3	1:A:699:TRP:HE1	1.87	0.40
1:A:933:PHE:HA	1:A:936:GLN:HE21	1.87	0.40
1:A:959:ARG:N	1:A:959:ARG:HD2	2.37	0.40
1:A:1013:VAL:HA	1:A:1016:LEU:HG	2.04	0.40
1:A:1142:LEU:HG	1:A:1146:HIS:HE2	1.87	0.40
1:A:1149:ASP:CB	1:A:1152:TYR:HB2	2.51	0.40
1:A:1426:SER:O	1:A:1428:GLN:NE2	2.54	0.40
1:A:1751:TYR:CD2	1:A:1772:LYS:HA	2.55	0.40
2:B:5:LYS:NZ	2:B:73:PRO:O	2.51	0.40
1:C:338:LEU:HB3	1:C:401:LEU:HD13	2.03	0.40
1:C:664:HIS:HA	1:C:742:ARG:HH12	1.87	0.40
1:C:697:MET:HE3	1:C:699:TRP:HE1	1.87	0.40
1:C:1049:CYS:SG	1:C:1054:TYR:OH	2.77	0.40
1:C:1149:ASP:CB	1:C:1152:TYR:HB2	2.51	0.40
1:C:1565:THR:HA	1:C:1568:MET:HG2	2.02	0.40
1:C:1798:VAL:C	1:C:1817:LYS:HD2	2.46	0.40
1:E:246:ARG:O	1:E:248:SER:N	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:281:LEU:HG	1:E:298:PHE:CE1	2.56	0.40
1:E:531:GLU:O	1:E:532:ILE:HD13	2.21	0.40
1:E:765:ARG:HG3	1:E:766:LEU:N	2.37	0.40
1:E:942:MET:SD	1:E:960:PHE:HZ	2.45	0.40
1:E:1013:VAL:HA	1:E:1016:LEU:HG	2.04	0.40
1:E:1021:TYR:HH	1:E:1045:THR:HG1	1.11	0.40
1:E:1257:VAL:HA	1:E:1260:VAL:HG12	2.03	0.40
1:E:1453:GLU:OE1	1:E:1453:GLU:N	2.32	0.40
1:E:1600:LEU:HD23	1:E:1600:LEU:C	2.47	0.40
1:E:1811:SER:HB2	1:E:1812:LYS:NZ	2.36	0.40
1:E:1922:GLN:HG2	1:E:1925:PRO:HA	2.03	0.40
1:E:1923:ASP:OD1	1:E:1924:PRO:HA	2.21	0.40
1:G:60:LEU:HD22	1:G:61:LEU:HD22	2.03	0.40
1:G:103:GLU:H	1:G:103:GLU:CD	2.28	0.40
1:G:281:LEU:HG	1:G:298:PHE:CE1	2.56	0.40
1:G:765:ARG:HG3	1:G:766:LEU:N	2.37	0.40
1:G:1406:SER:OG	1:G:1407:GLU:N	2.54	0.40
1:G:1617:ALA:HB2	1:G:1693:TYR:HD1	1.87	0.40
1:G:1728:GLY:O	1:G:1731:GLN:N	2.54	0.40
2:H:35:THR:OG1	2:H:36:VAL:N	2.55	0.40
1:A:278:PHE:HE2	1:A:391:ARG:HD2	1.85	0.40
1:A:288:GLU:O	1:A:290:LYS:HG2	2.21	0.40
1:A:386:ARG:HA	1:A:386:ARG:HD3	1.89	0.40
1:A:558:LEU:HB3	1:A:613:PRO:HD2	2.03	0.40
1:A:576:TYR:HE2	1:A:578:THR:HG22	1.85	0.40
1:A:951:ARG:HD3	1:A:959:ARG:NE	2.31	0.40
1:A:1010:ARG:HB3	1:A:1014:PHE:CZ	2.56	0.40
1:A:1369:LYS:HB3	1:A:1373:GLU:OE2	2.22	0.40
1:A:1433:LEU:HD23	1:A:1433:LEU:HA	1.91	0.40
1:A:1719:ASP:OD1	1:A:1719:ASP:N	2.53	0.40
1:A:1786:LEU:HB2	1:A:1790:TYR:HE1	1.84	0.40
1:A:1798:VAL:C	1:A:1817:LYS:HD2	2.46	0.40
1:A:1800:GLU:OE1	1:A:1817:LYS:HG3	2.22	0.40
1:A:1857:THR:HG22	1:A:1868:GLU:O	2.22	0.40
1:A:1923:ASP:HA	1:A:1925:PRO:HD3	2.03	0.40
1:A:1985:LEU:HD13	1:A:2004:GLU:OE1	2.22	0.40
2:B:11:ASP:OD1	2:B:97:TRP:CZ3	2.74	0.40
2:B:143:LEU:O	2:B:147:LYS:HG3	2.20	0.40
1:C:216:ASP:O	1:C:217:ARG:C	2.65	0.40
1:C:217:ARG:O	1:C:221:THR:HG23	2.22	0.40
1:C:959:ARG:HD2	1:C:959:ARG:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1010:ARG:HB3	1:C:1014:PHE:CZ	2.56	0.40
1:C:1022:LYS:O	1:C:1026:THR:HG23	2.20	0.40
1:C:1165:TYR:C	1:C:1167:PRO:HD2	2.45	0.40
1:C:1369:LYS:HB3	1:C:1373:GLU:OE2	2.22	0.40
1:C:1680:GLU:O	1:C:1684:VAL:HG23	2.21	0.40
1:C:1751:TYR:HD1	1:C:1850:PHE:HZ	1.69	0.40
1:C:1948:GLU:O	1:C:1952:VAL:HG12	2.21	0.40
2:D:5:LYS:NZ	2:D:73:PRO:O	2.51	0.40
2:D:46:VAL:HG23	2:D:49:LYS:HB2	2.03	0.40
1:E:60:LEU:HD22	1:E:61:LEU:HD22	2.03	0.40
1:E:553:VAL:C	1:E:554:TYR:HD1	2.29	0.40
1:E:1053:HIS:C	1:E:1055:VAL:N	2.79	0.40
1:E:1101:GLY:O	1:E:1105:GLN:HG3	2.21	0.40
1:E:1533:LEU:O	1:E:1537:GLU:OE1	2.40	0.40
1:E:1920:THR:HB	1:E:1921:GLU:OE1	2.21	0.40
2:F:165:LEU:HD12	2:F:165:LEU:HA	1.88	0.40
1:G:511:LEU:HB2	1:G:530:LYS:HG2	2.02	0.40
1:G:553:VAL:C	1:G:554:TYR:HD1	2.29	0.40
1:G:909:HIS:HB2	1:G:938:MET:HE1	2.03	0.40
1:G:1013:VAL:HA	1:G:1016:LEU:HG	2.04	0.40
1:G:1117:LEU:HD12	1:G:1168:LEU:HD21	2.04	0.40
1:G:1146:HIS:CD2	1:G:1165:TYR:HH	2.34	0.40
1:G:1600:LEU:HA	1:G:1603:MET:HE3	2.03	0.40
1:G:1687:LEU:HD13	1:G:1710:LEU:HD13	2.04	0.40
1:G:1798:VAL:C	1:G:1817:LYS:HD2	2.46	0.40
1:G:1961:PRO:HA	1:G:1964:PHE:HD2	1.87	0.40
1:A:121:VAL:HG11	1:A:841:ARG:HD2	2.03	0.40
1:A:580:GLU:OE2	1:A:684:SER:N	2.35	0.40
1:A:1152:TYR:C	1:A:1157:VAL:HG11	2.46	0.40
1:A:1260:VAL:O	1:A:1264:THR:OG1	2.30	0.40
1:A:1533:LEU:O	1:A:1537:GLU:OE1	2.40	0.40
1:A:1680:GLU:O	1:A:1684:VAL:HG23	2.21	0.40
1:A:1720:TYR:HA	1:A:1723:LEU:HD12	2.03	0.40
1:A:1790:TYR:O	1:A:1794:PHE:CB	2.56	0.40
1:A:1802:ILE:HG21	1:A:1821:GLN:HG3	2.03	0.40
1:C:291:LYS:NZ	1:C:293:SER:O	2.42	0.40
1:C:466:ARG:CZ	1:C:615:PHE:HA	2.52	0.40
1:C:508:HIS:HB3	1:C:509:PHE:CD1	2.57	0.40
1:C:656:PHE:HB2	1:C:681:PRO:CD	2.51	0.40
1:C:765:ARG:HG3	1:C:766:LEU:N	2.37	0.40
1:C:1027:ARG:NH1	1:C:1031:SER:HB2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1158:LYS:O	1:C:1159:ALA:C	2.62	0.40
1:C:1453:GLU:HG2	1:C:1454:GLU:N	2.37	0.40
1:C:1705:GLU:HA	1:C:1708:LYS:HD2	2.04	0.40
1:C:1718:ARG:HB3	1:C:1720:TYR:CZ	2.57	0.40
1:C:1733:ALA:O	1:C:1737:ILE:HG12	2.20	0.40
1:C:1920:THR:HB	1:C:1921:GLU:OE1	2.21	0.40
1:E:333:SER:H	1:E:446:PHE:HE2	1.70	0.40
1:E:979:VAL:HG22	1:E:993:LEU:CD1	2.51	0.40
1:E:1010:ARG:HB3	1:E:1014:PHE:CZ	2.56	0.40
1:E:1369:LYS:HB3	1:E:1373:GLU:OE2	2.22	0.40
1:E:1802:ILE:HG21	1:E:1821:GLN:HG3	2.03	0.40
1:E:1825:VAL:HB	1:E:1850:PHE:CG	2.56	0.40
1:E:1961:PRO:HA	1:E:1964:PHE:HD2	1.87	0.40
1:G:89:PRO:HA	1:G:119:ASP:CG	2.46	0.40
1:G:121:VAL:HG11	1:G:841:ARG:HD2	2.03	0.40
1:G:246:ARG:O	1:G:248:SER:N	2.53	0.40
1:G:288:GLU:O	1:G:290:LYS:HG2	2.21	0.40
1:G:449:PHE:CE2	1:G:500:ILE:HG13	2.57	0.40
1:G:789:ARG:NH1	1:G:844:GLY:HA3	2.35	0.40
1:G:1142:LEU:HG	1:G:1146:HIS:HE2	1.87	0.40
1:G:1152:TYR:C	1:G:1157:VAL:HG11	2.46	0.40
1:G:1409:ARG:O	1:G:1413:LEU:HD23	2.22	0.40
1:G:1600:LEU:C	1:G:1600:LEU:HD23	2.47	0.40
1:G:1985:LEU:HD13	1:G:2004:GLU:OE1	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1672/2053 (81%)	1542 (92%)	130 (8%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	1672/2053 (81%)	1543 (92%)	129 (8%)	0	100	100
1	E	1672/2053 (81%)	1542 (92%)	130 (8%)	0	100	100
1	G	1672/2053 (81%)	1541 (92%)	131 (8%)	0	100	100
2	B	175/184 (95%)	165 (94%)	10 (6%)	0	100	100
2	D	175/184 (95%)	165 (94%)	10 (6%)	0	100	100
2	F	175/184 (95%)	165 (94%)	10 (6%)	0	100	100
2	H	175/184 (95%)	165 (94%)	10 (6%)	0	100	100
All	All	7388/8948 (83%)	6828 (92%)	560 (8%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1476/1773 (83%)	1476 (100%)	0	100	100
1	C	1476/1773 (83%)	1476 (100%)	0	100	100
1	E	1476/1773 (83%)	1476 (100%)	0	100	100
1	G	1476/1773 (83%)	1476 (100%)	0	100	100
2	B	153/157 (98%)	153 (100%)	0	100	100
2	D	153/157 (98%)	153 (100%)	0	100	100
2	F	153/157 (98%)	153 (100%)	0	100	100
2	H	153/157 (98%)	153 (100%)	0	100	100
All	All	6516/7720 (84%)	6516 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (76) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	219	ASN
1	A	295	ASN
1	A	301	ASN
1	A	506	ASN
1	A	508	HIS
1	A	559	ASN
1	A	609	HIS
1	A	778	HIS
1	A	909	HIS
1	A	930	HIS
1	A	950	GLN
1	A	1106	GLN
1	A	1383	ASN
1	A	1491	GLN
1	A	1590	GLN
1	A	1731	GLN
1	A	1996	GLN
2	B	39	ASN
2	B	104	HIS
1	C	108	GLN
1	C	124	HIS
1	C	219	ASN
1	C	295	ASN
1	C	301	ASN
1	C	506	ASN
1	C	508	HIS
1	C	559	ASN
1	C	778	HIS
1	C	909	HIS
1	C	930	HIS
1	C	1106	GLN
1	C	1270	GLN
1	C	1383	ASN
1	C	1491	GLN
1	C	1590	GLN
1	C	1731	GLN
1	C	1996	GLN
2	D	104	HIS
1	E	108	GLN
1	E	124	HIS
1	E	219	ASN
1	E	295	ASN
1	E	301	ASN

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Mol	Chain	Res	Type
1	E	506	ASN
1	E	609	HIS
1	E	778	HIS
1	E	909	HIS
1	E	930	HIS
1	E	950	GLN
1	E	1106	GLN
1	E	1270	GLN
1	E	1491	GLN
1	E	1590	GLN
1	E	1731	GLN
2	F	2	GLN
2	F	74	GLN
2	F	104	HIS
1	G	108	GLN
1	G	124	HIS
1	G	219	ASN
1	G	295	ASN
1	G	301	ASN
1	G	506	ASN
1	G	508	HIS
1	G	559	ASN
1	G	778	HIS
1	G	909	HIS
1	G	950	GLN
1	G	1106	GLN
1	G	1270	GLN
1	G	1491	GLN
1	G	1590	GLN
1	G	1731	GLN
1	G	1996	GLN
1	G	2000	HIS
2	H	104	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates [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.

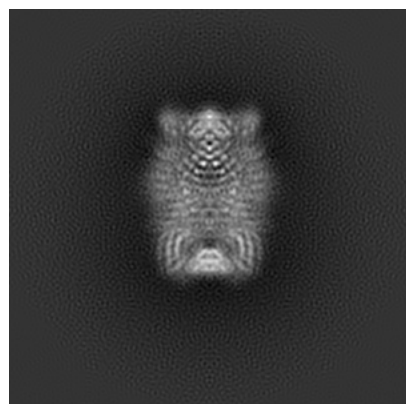
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-65179. These allow visual inspection of the internal detail of the map and identification of artifacts.

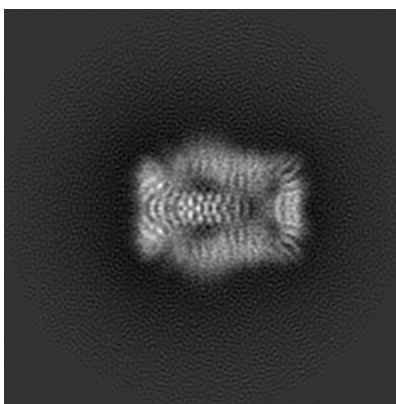
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

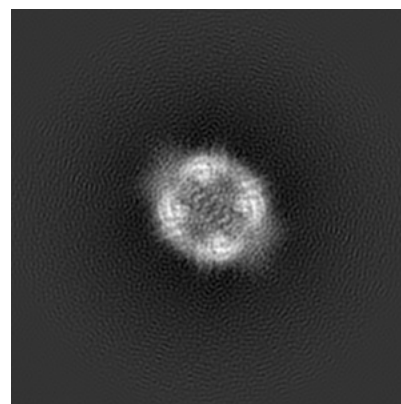
6.1.1 Primary map



X

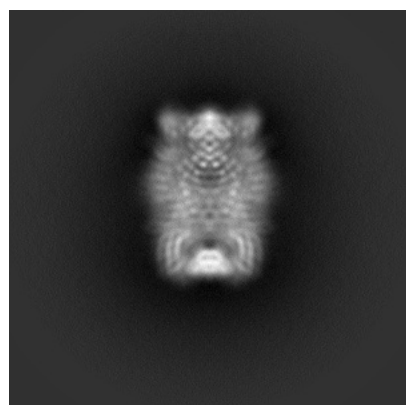


Y

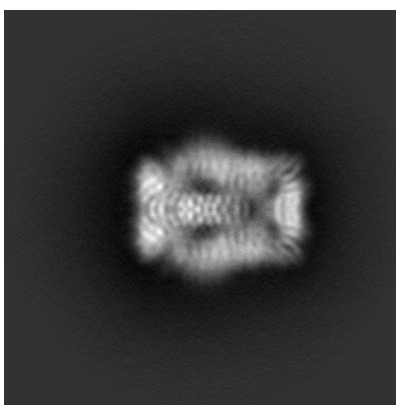


Z

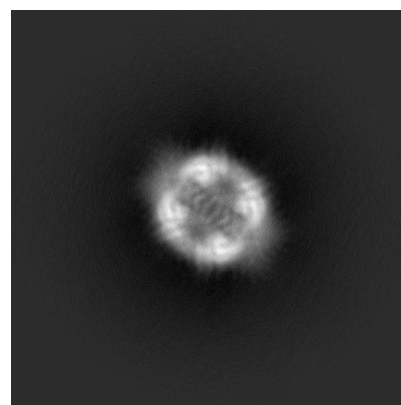
6.1.2 Raw map



X



Y



Z

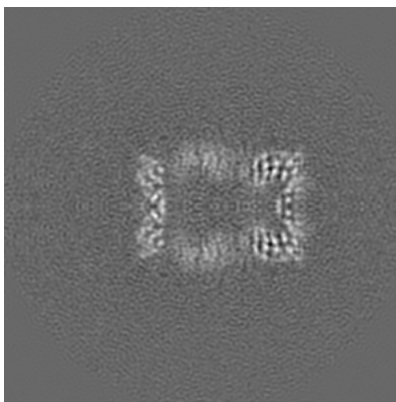
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

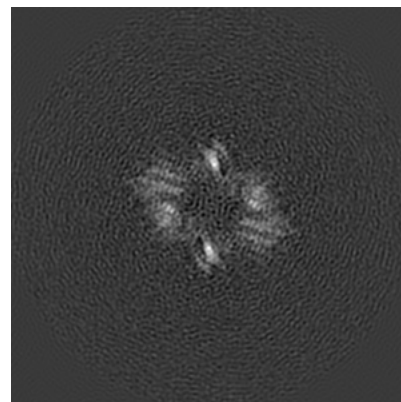
6.2.1 Primary map



X Index: 170

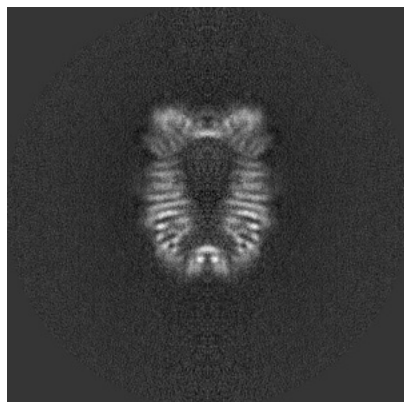


Y Index: 170

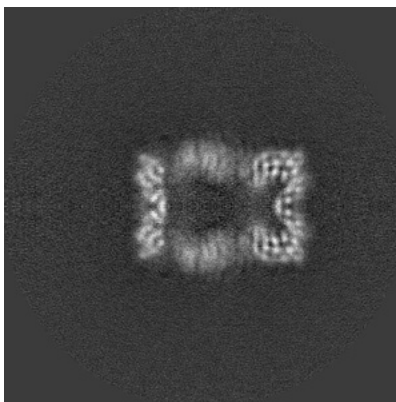


Z Index: 170

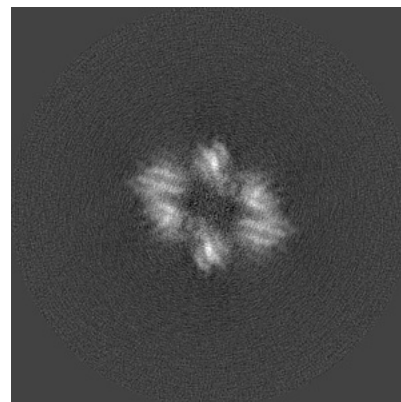
6.2.2 Raw map



X Index: 170



Y Index: 170



Z Index: 170

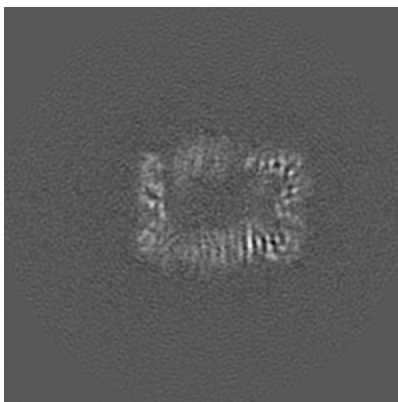
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

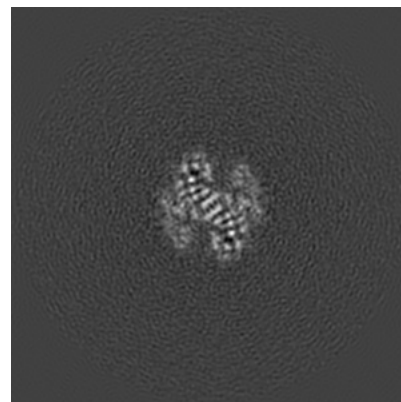
6.3.1 Primary map



X Index: 174

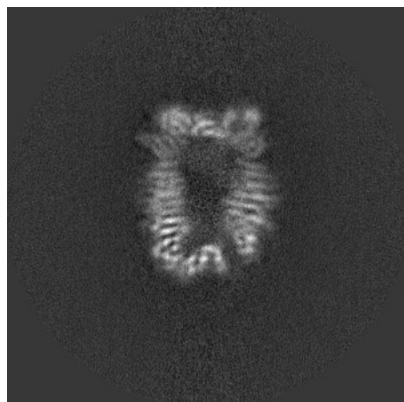


Y Index: 165

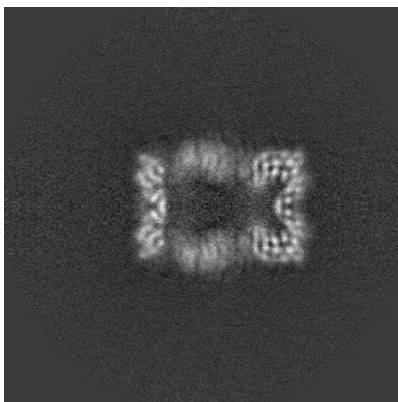


Z Index: 126

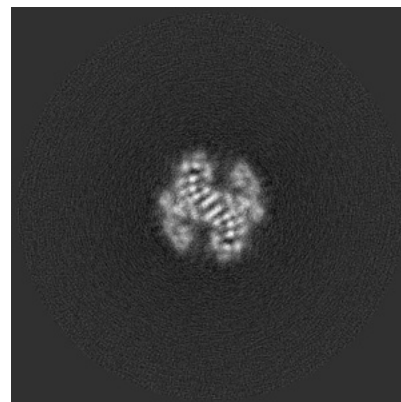
6.3.2 Raw map



X Index: 174



Y Index: 170

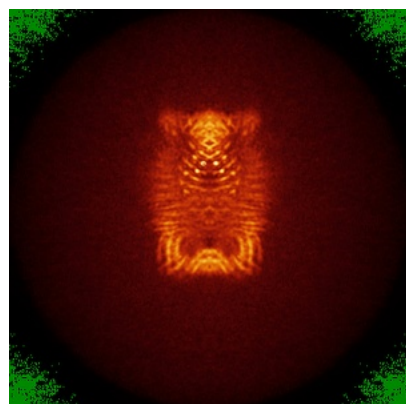


Z Index: 125

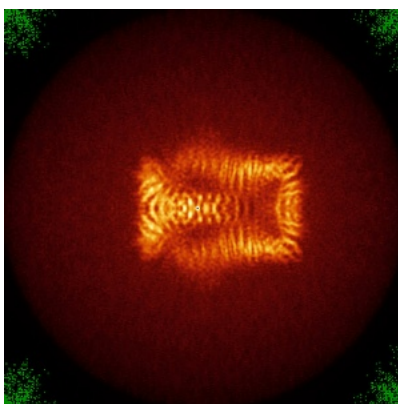
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

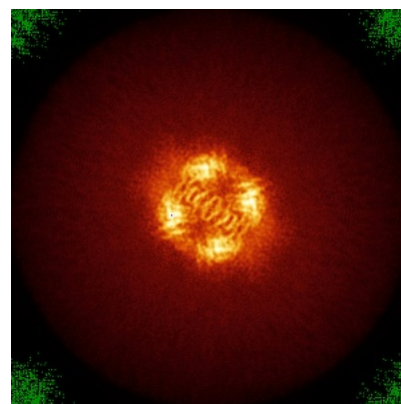
6.4.1 Primary map



X

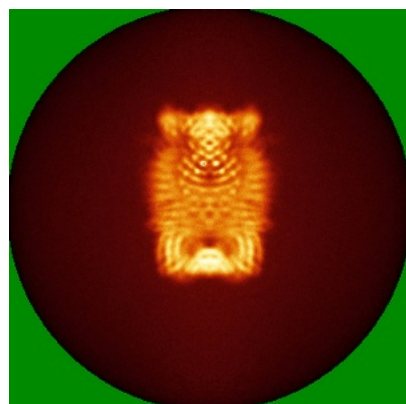


Y

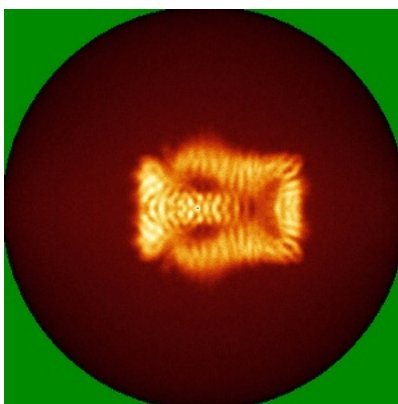


Z

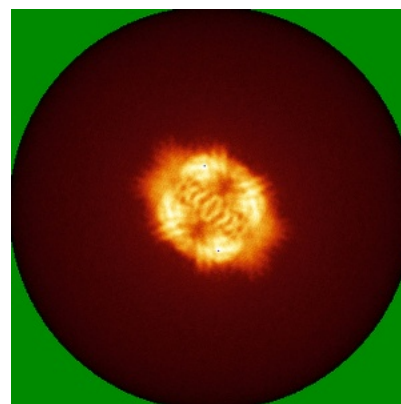
6.4.2 Raw map



X



Y

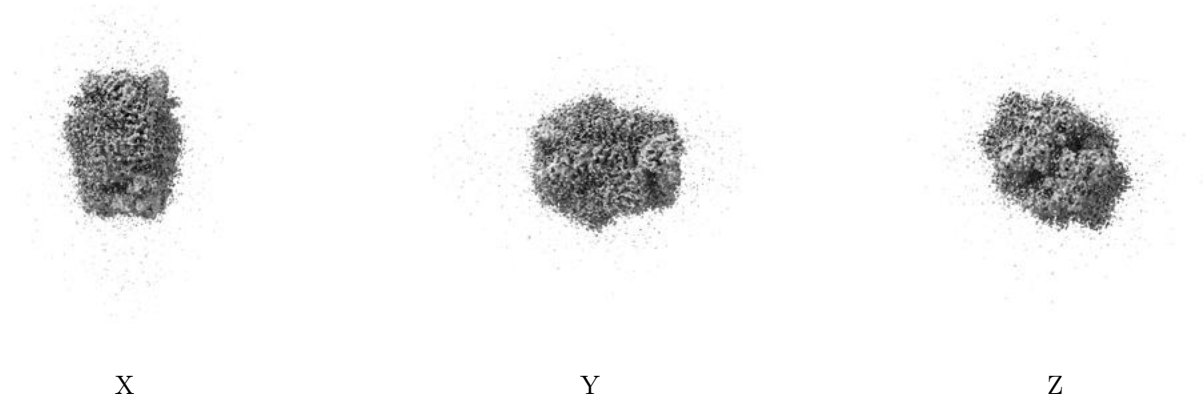


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

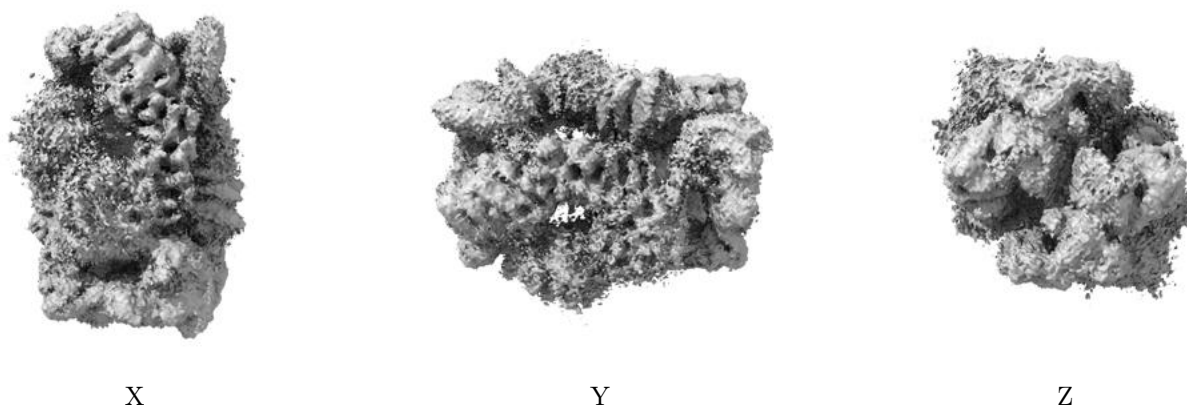
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

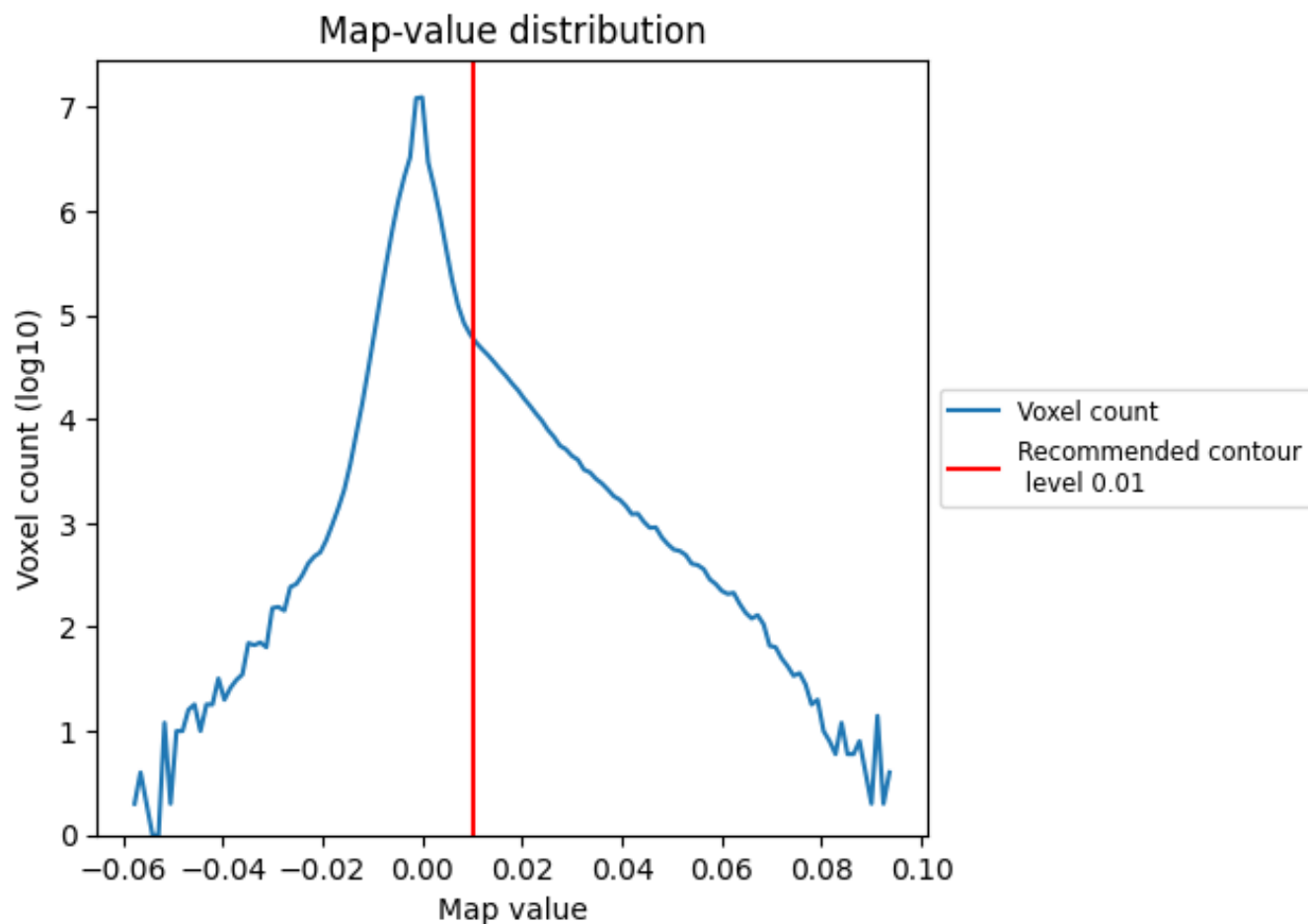
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

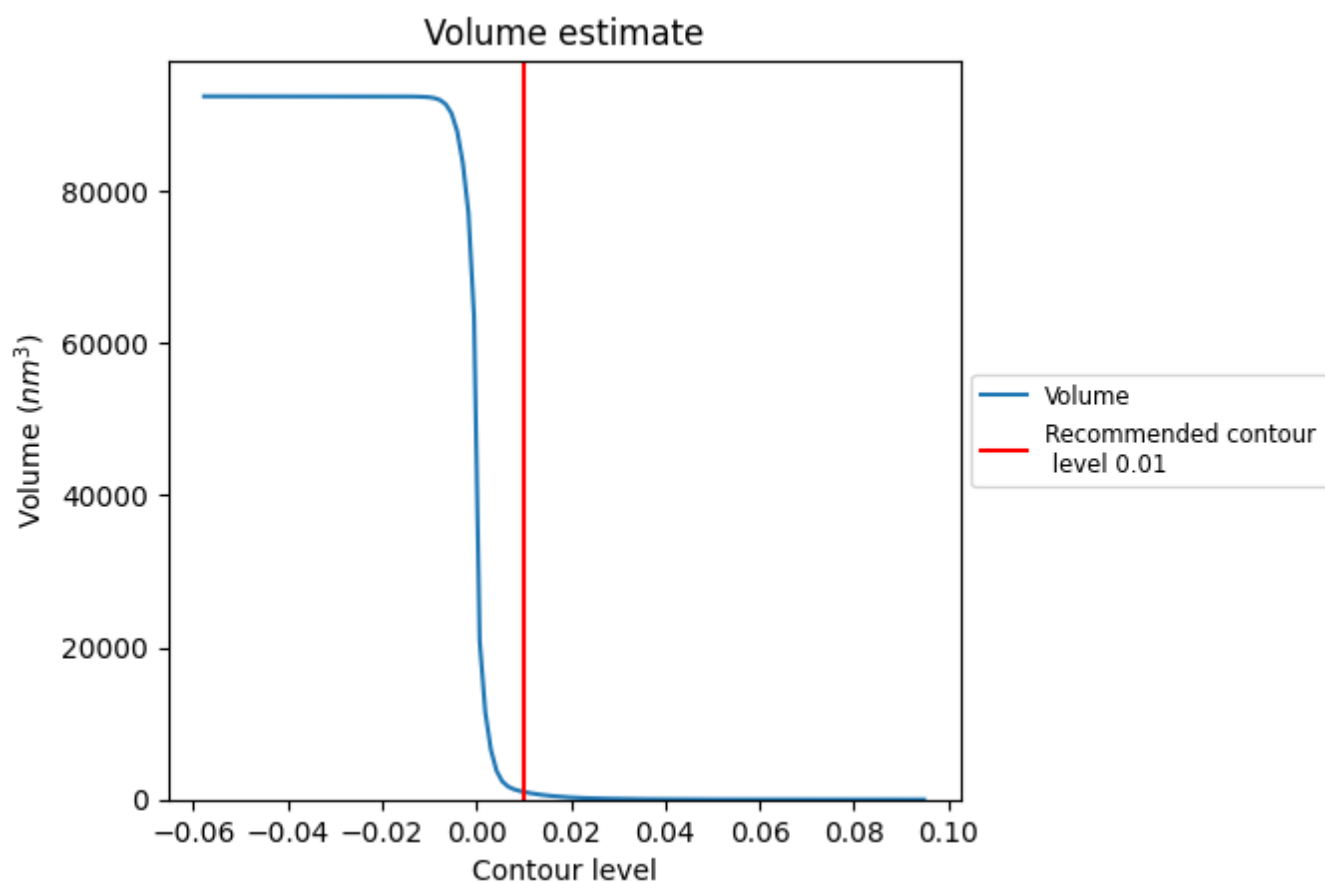
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

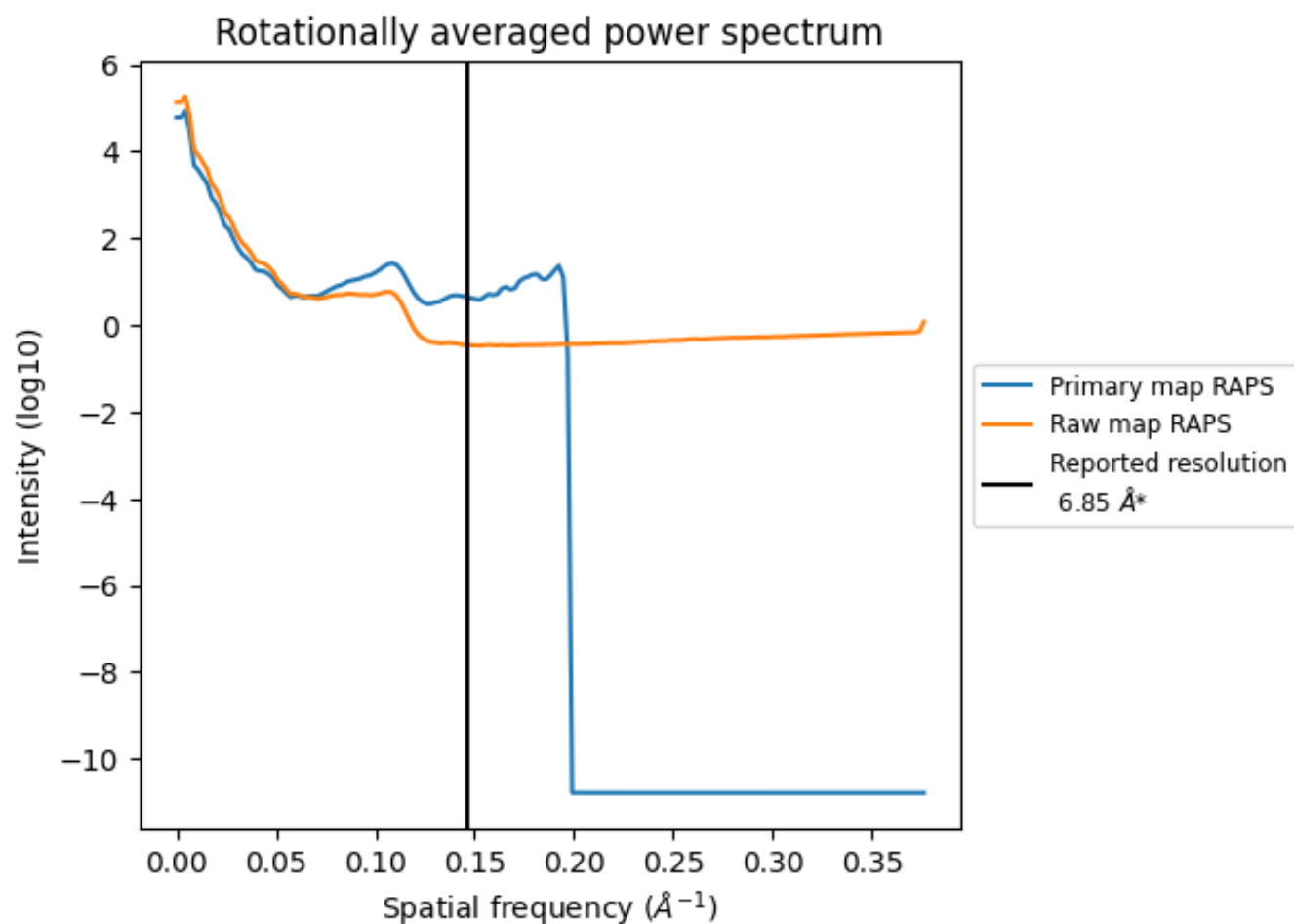
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1014 nm³; this corresponds to an approximate mass of 916 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ

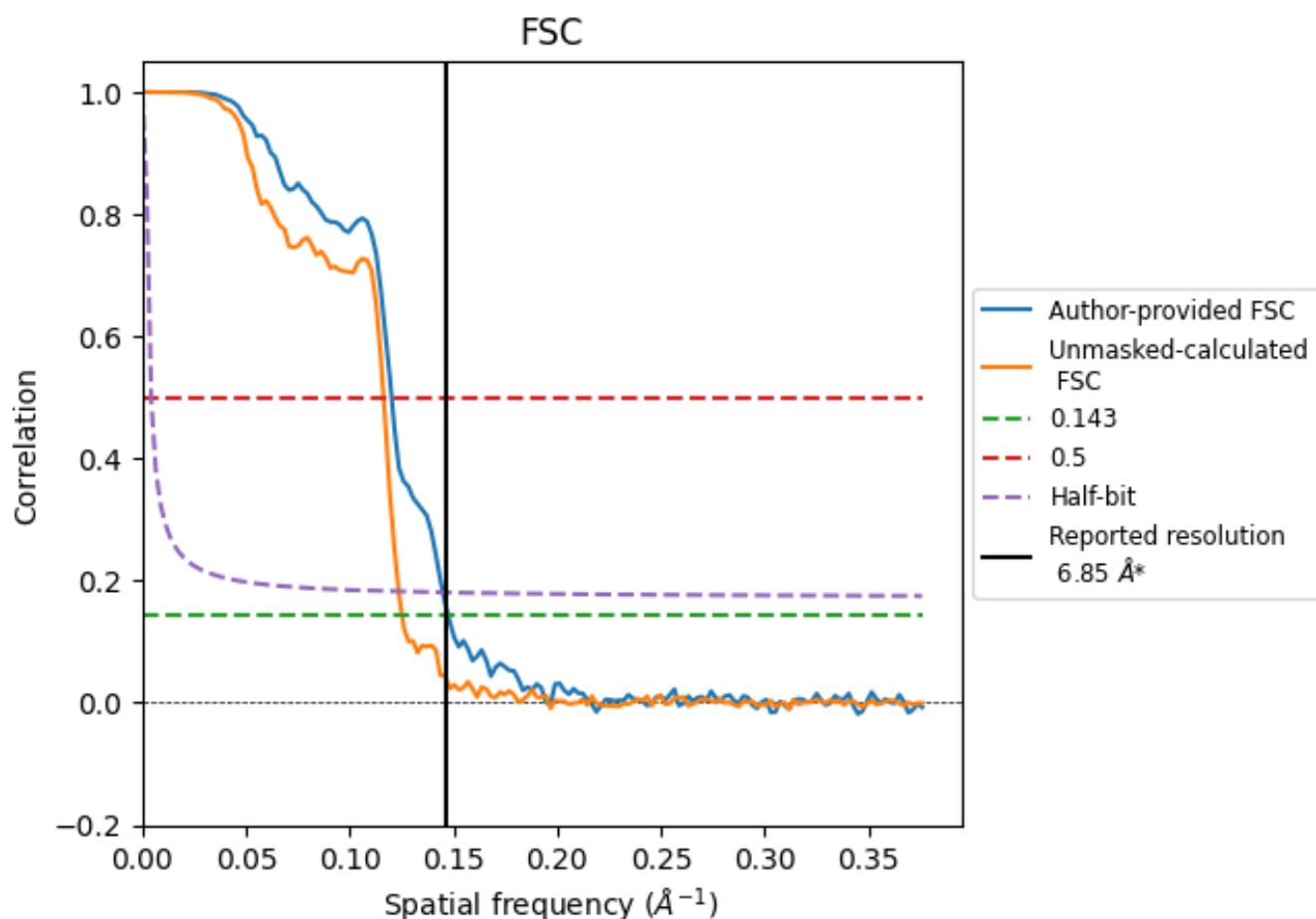


*Reported resolution corresponds to spatial frequency of 0.146 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.146 $\text{\AA}^{-1}$

8.2 Resolution estimates [i](#)

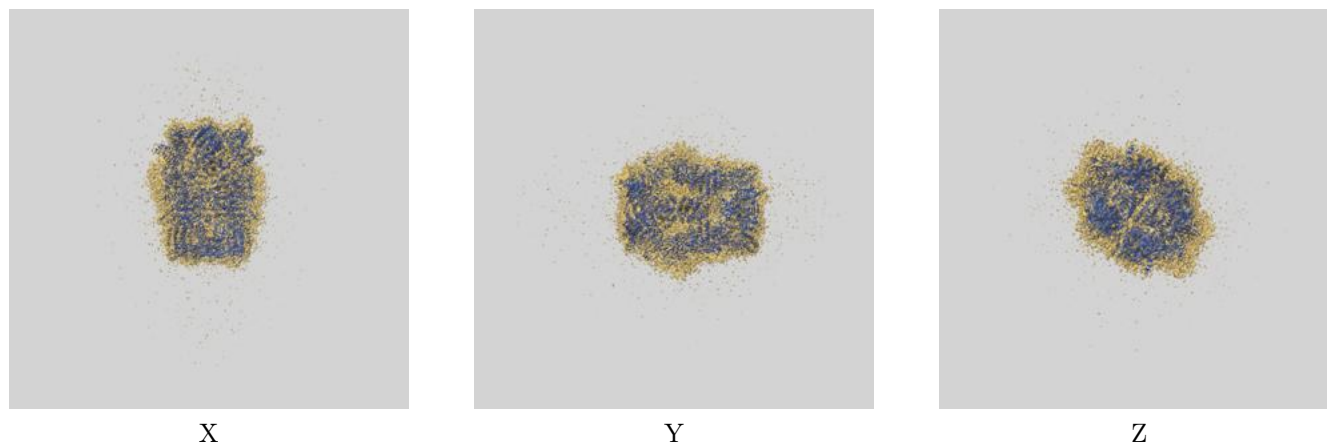
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	6.85	-	-
Author-provided FSC curve	6.78	8.32	6.90
Unmasked-calculated*	7.99	8.60	8.08

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 7.99 differs from the reported value 6.85 by more than 10 %

9 Map-model fit [i](#)

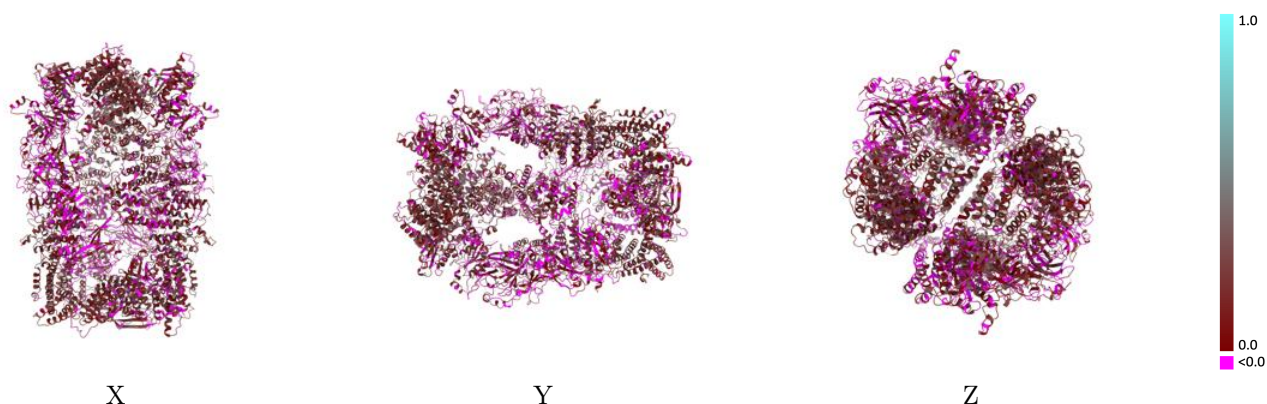
This section contains information regarding the fit between EMDB map EMD-65179 and PDB model 9VM7. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



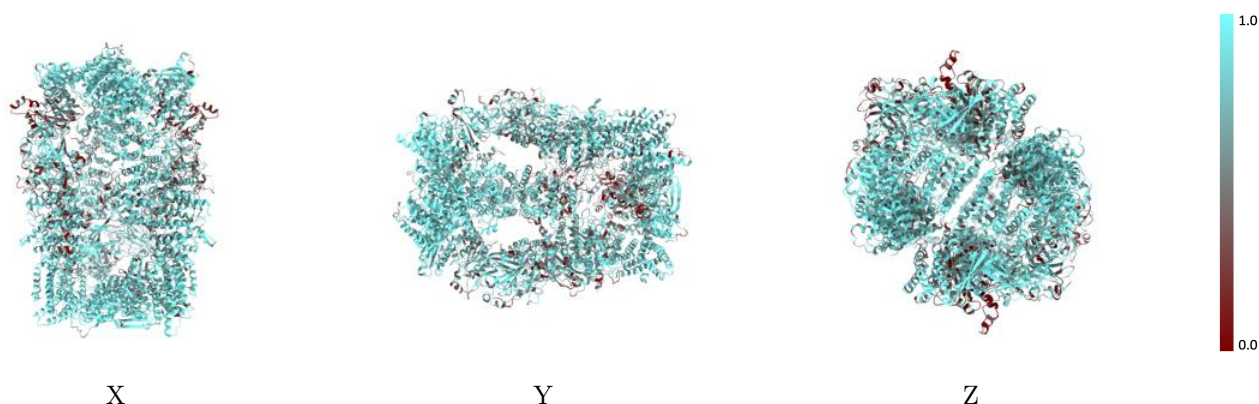
The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



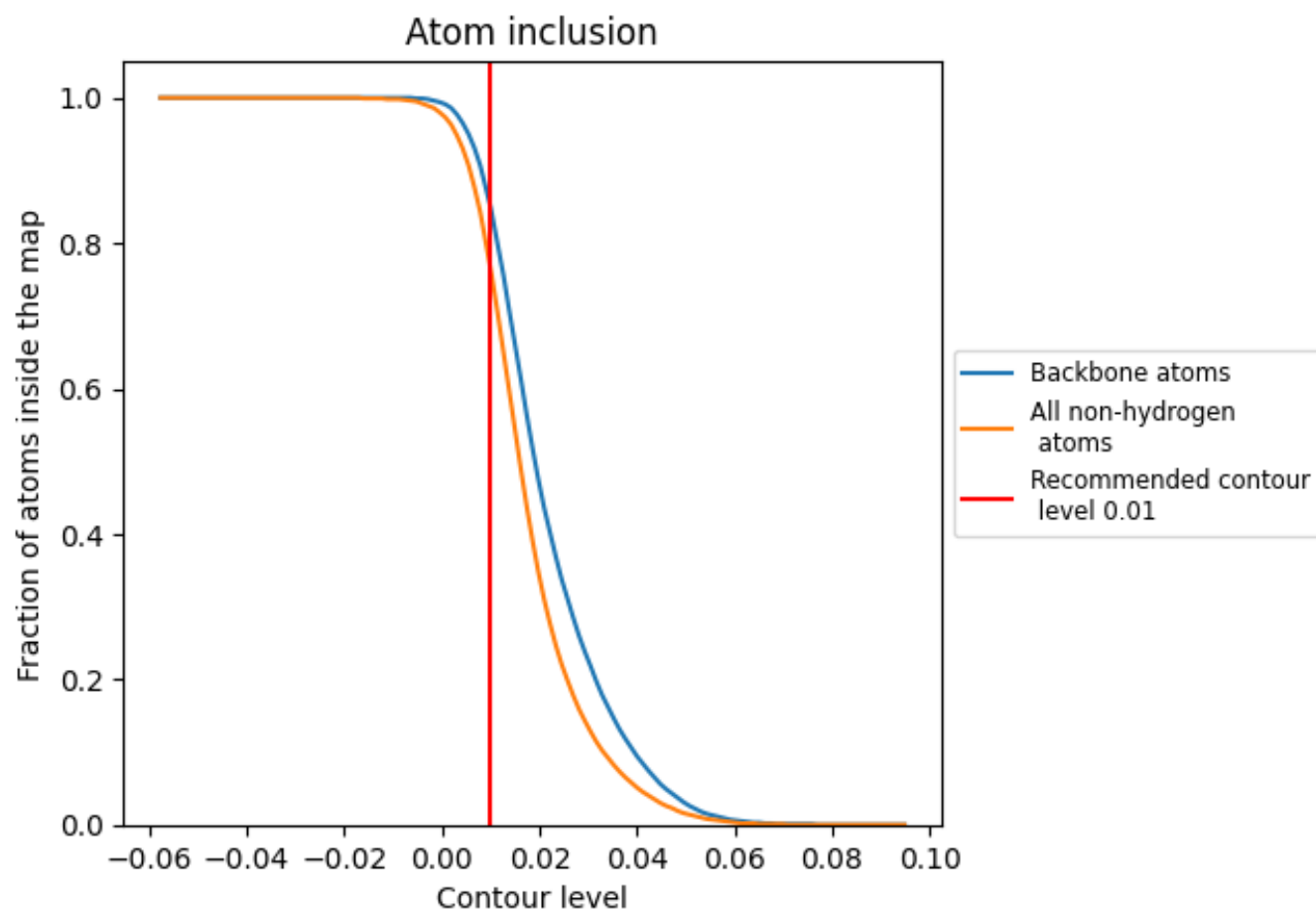
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.01).

9.4 Atom inclusion [i](#)



At the recommended contour level, 85% of all backbone atoms, 76% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7650	0.1350
A	0.7800	0.1280
B	0.6890	0.1220
C	0.7890	0.1420
D	0.7290	0.1330
E	0.7740	0.1320
F	0.4560	0.0830
G	0.7940	0.1520
H	0.4390	0.0770

