



Full wwPDB EM Validation Report ⓘ

Sep 9, 2025 – 05:22 AM JST

PDB ID : 8ZJ2 / pdb_00008zj2
EMDB ID : EMD-60136
Title : Cryo-EM structure of the RhoG/DOCK5/ELMO1/Rac1 complex
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Mishima-Tsumagari, C.; Yonemochi, M.; Inoue, M.; Nakagawa, R.; Kaushik, R.; Zhang, K.Y.J.; Shirouzu, M.
Deposited on : 2024-05-14
Resolution : 4.66 Å (reported)
Based on initial models : 7DPA, 6IE1, 7Y4A

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.dev126
Mogul : 1.8.5 (274361), CSD as541be (2020)
MolProbity : 4-5-2 with Phenix2.0rc1
buster-report : 1.1.7 (2018)
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.45.1

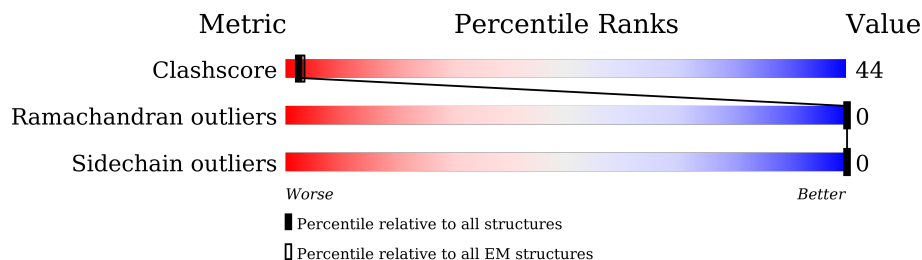
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.66 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	B	1648	 30% 69%
1	F	1648	 18% 37% 62%
2	C	184	 33% 64%
2	G	184	 32% 64%
3	A	733	 48% 35% 64%
3	E	733	 9% 18% 73%
4	D	203	 21% 33% 56% 11%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 38587 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 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	1642	Total	C	N	O	S	0	0
			13436	8618	2264	2484	70		
1	F	1642	Total	C	N	O	S	0	0
			13436	8618	2264	2484	70		

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-5	GLY	-	expression tag	UNP Q9H7D0
B	-4	GLY	-	expression tag	UNP Q9H7D0
B	-3	SER	-	expression tag	UNP Q9H7D0
B	-2	GLY	-	expression tag	UNP Q9H7D0
B	-1	GLY	-	expression tag	UNP Q9H7D0
B	0	SER	-	expression tag	UNP Q9H7D0
B	1285	ARG	LYS	variant	UNP Q9H7D0
F	-5	GLY	-	expression tag	UNP Q9H7D0
F	-4	GLY	-	expression tag	UNP Q9H7D0
F	-3	SER	-	expression tag	UNP Q9H7D0
F	-2	GLY	-	expression tag	UNP Q9H7D0
F	-1	GLY	-	expression tag	UNP Q9H7D0
F	0	SER	-	expression tag	UNP Q9H7D0
F	1285	ARG	LYS	variant	UNP Q9H7D0

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

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		
2	G	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		

There are 16 discrepancies between the modelled and reference sequences:

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

- Molecule 3 is a protein called Engulfment and cell motility protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	E	199	Total	C	N	O	S	0	0
			1617	1023	279	305	10		
3	A	727	Total	C	N	O	S	0	0
			5879	3721	1009	1108	41		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	-5	GLY	-	expression tag	UNP Q92556
E	-4	GLY	-	expression tag	UNP Q92556
E	-3	SER	-	expression tag	UNP Q92556
E	-2	GLY	-	expression tag	UNP Q92556
E	-1	GLY	-	expression tag	UNP Q92556
E	0	SER	-	expression tag	UNP Q92556
A	-5	GLY	-	expression tag	UNP Q92556
A	-4	GLY	-	expression tag	UNP Q92556
A	-3	SER	-	expression tag	UNP Q92556
A	-2	GLY	-	expression tag	UNP Q92556
A	-1	GLY	-	expression tag	UNP Q92556
A	0	SER	-	expression tag	UNP Q92556

- Molecule 4 is a protein called Rho-related GTP-binding protein RhoG.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	181	Total	C	N	O	S	0	0
			1416	897	248	263	8		

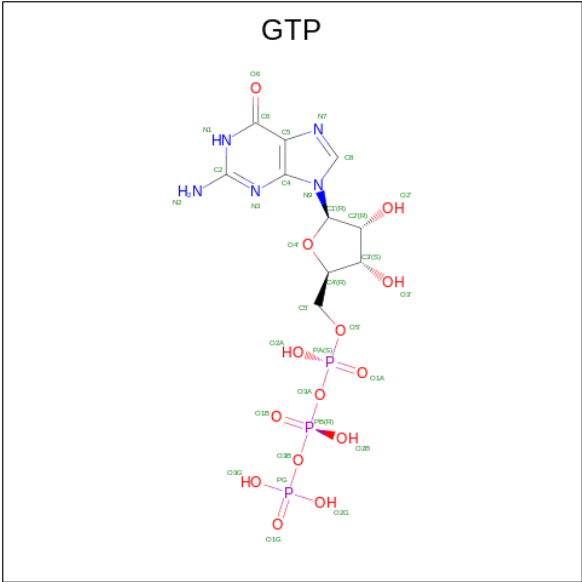
There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
D	-6	GLY	-	expression tag	UNP P84095
D	-5	SER	-	expression tag	UNP P84095
D	-4	SER	-	expression tag	UNP P84095
D	-3	GLY	-	expression tag	UNP P84095
D	-2	SER	-	expression tag	UNP P84095
D	-1	SER	-	expression tag	UNP P84095
D	0	GLY	-	expression tag	UNP P84095
D	61	LEU	GLN	engineered mutation	UNP P84095
D	185	SER	-	expression tag	UNP P84095
D	186	GLY	-	expression tag	UNP P84095
D	187	PRO	-	expression tag	UNP P84095
D	188	SER	-	expression tag	UNP P84095
D	189	SER	-	expression tag	UNP P84095
D	190	GLY	-	expression tag	UNP P84095
D	191	GLU	-	expression tag	UNP P84095
D	192	ASN	-	expression tag	UNP P84095
D	193	LEU	-	expression tag	UNP P84095
D	194	TYR	-	expression tag	UNP P84095
D	195	PHE	-	expression tag	UNP P84095
D	196	GLN	-	expression tag	UNP P84095

- Molecule 5 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
5	D	1	Total	Mg	0
			1	1	

- Molecule 6 is GUANOSINE-5'-TRIPHOSPHATE (CCD ID: GTP) (formula: C₁₀H₁₆N₅O₁₄P₃) (labeled as "Ligand of Interest" by depositor).

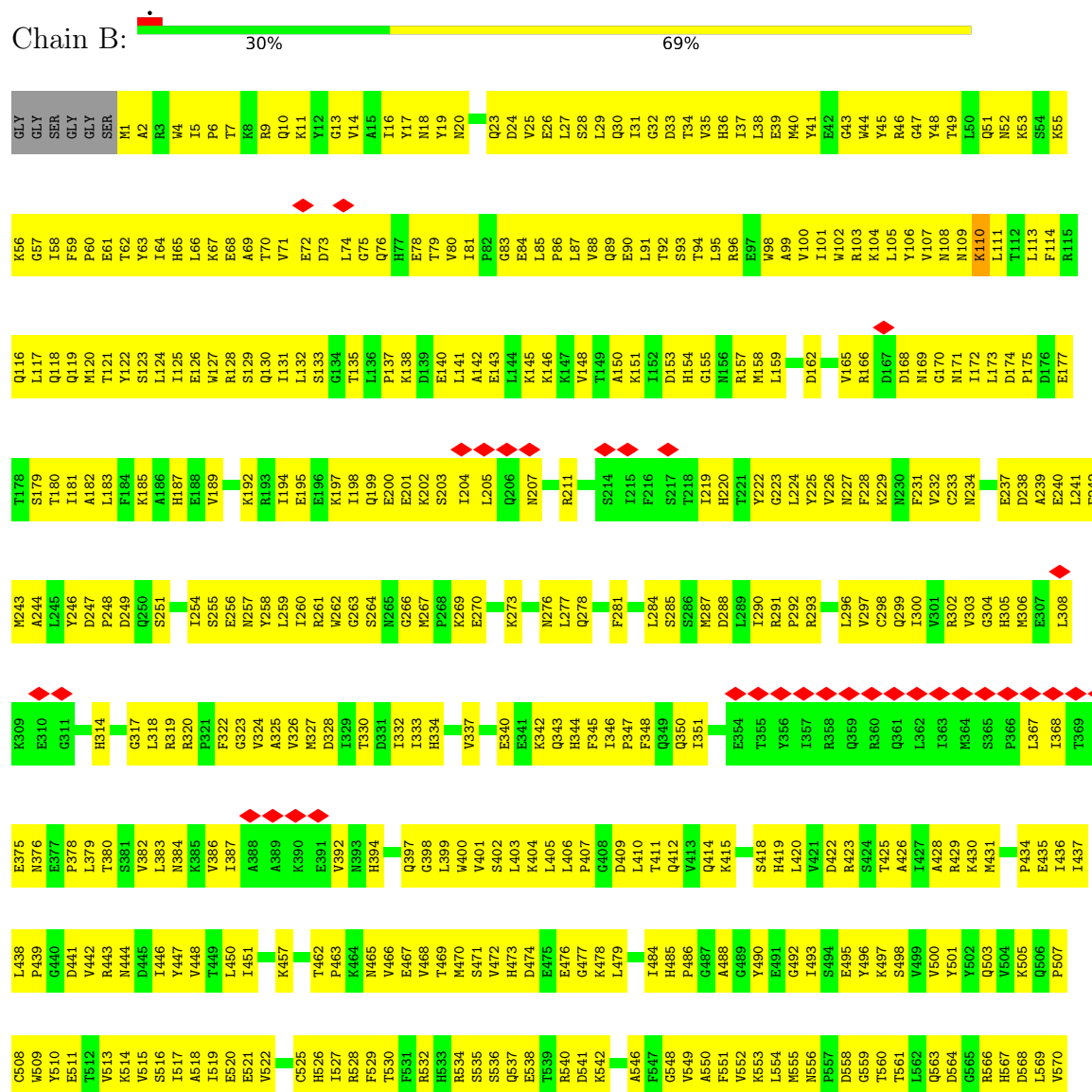


Mol	Chain	Residues	Atoms					AltConf
6	D	1	Total	C	N	O	P	0
			32	10	5	14	3	

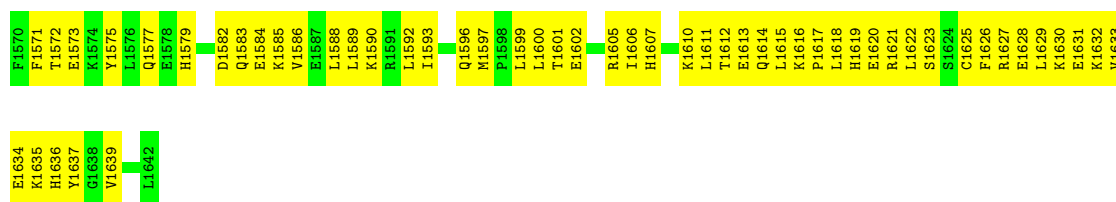
3 Residue-property plots

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

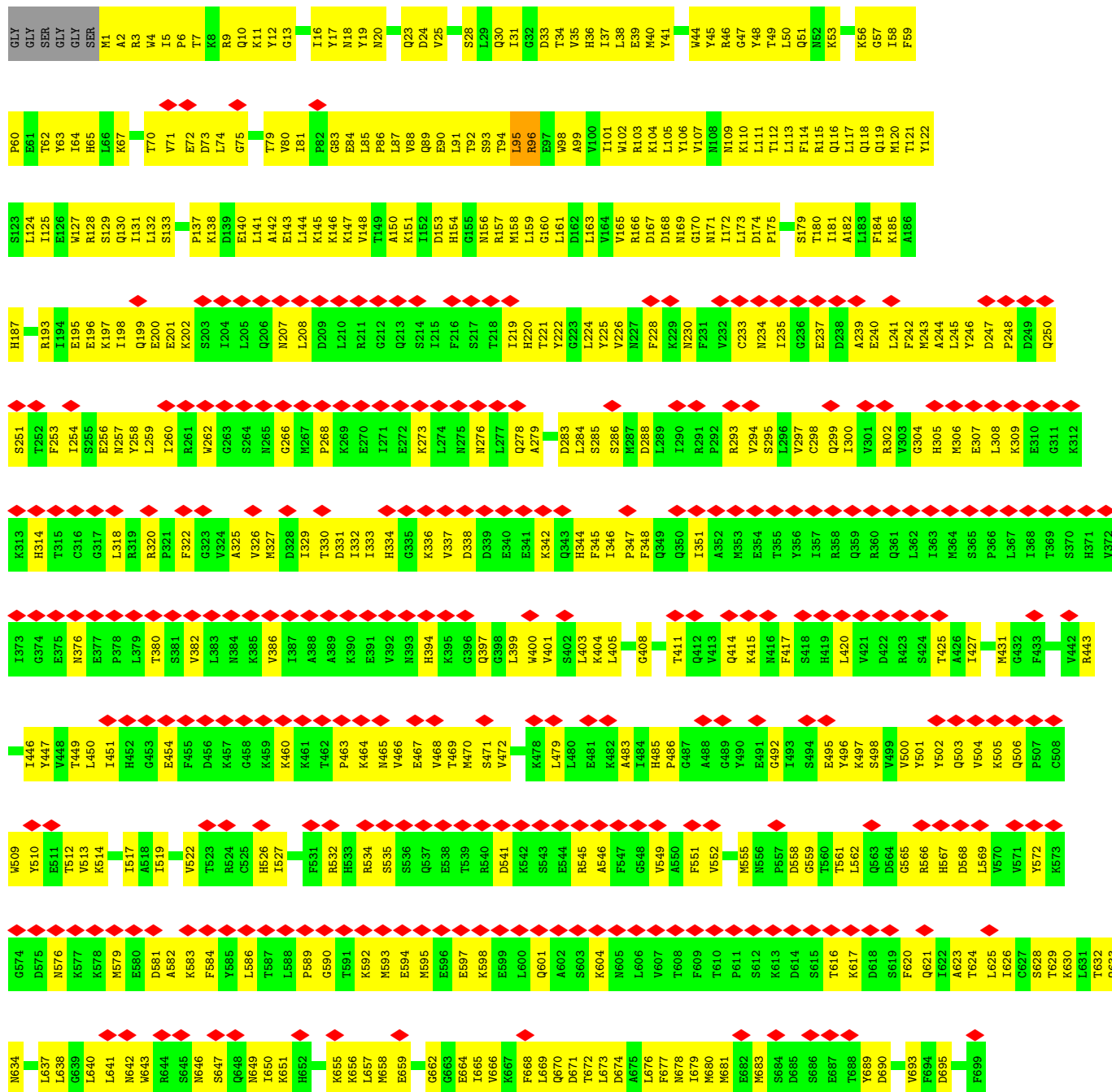
• Molecule 1: Dedicator of cytokinesis protein 5

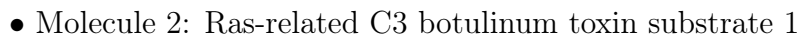


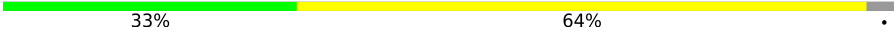
K1505	K1432	G1366	L1296	L1094	V1027	L961	S894	D832	I767	L703	L637	V671
Q1506	P1433	Y1367	K1299	H1097	L1028	Q962	M895	D833	I768	I704	L638	Y572
I1507	Y1434	Y1368	L1300	K1098	T1029	M963	K896	P833	G705	G705	G639	K573
T1509	M1435	G1369	F1230	H1099	R1030	Q964	E900	V834	D706	D706	G638	K578
E1511	S1436	Q1370	Y1301	K1100	F1031	D966	A901	E835	S770	S770	L640	M579
	P1438	Q1371	E1303	F1101	F1032	D966	S902	S837	R771	R771	L641	E580
	P1439	F1372	L1304	I1102	M1033	H968	S903	V838	L773	L773	W643	D581
P1514	S1440	P1373	I1305	F1103	D1034	S969	Q904	L839	Y774	Q710		A582
E1516	Y1441	S1374	L1171	S1104	Q1035	S970	L906	F840	L775	H711		F584
A1517	K1442	F1375	L1172	M1105	S1037	H971	L906	C841	R776	N712		Y585
I1518	D1443	L1376	K1174	V1106	F1038	Y972	S908	F842	Y778	P714		L586
		R1377	L1175	G1107	E1039	I973	N907	I844	G760	V715		L587
		N1378	L1176	P1108	L1040	S974	I909	Q845	L716	L716		L588
Q1449		K1379	L1177	T1109	Q1041	F976	L910	S846	E717	E717		P589
I1450		L1312	L1110	W1043	L1042	F976			L718	L718		G590
T1521	L1451	K1313	L1111	M1044	T1043		L913	Q851	Y719	Y719		T591
M1522	M1452	Y1314	V1111	N1045	H1048		R915	L852	I720	I720		K592
E1523	Y1453	L1244	V1112	Y1046	D984		K916	V853	Y721	Y721		M593
L1524	K1454	Y1245	T1115	P1047	F985		R916	R854	K722	K722		E594
T1525	R1455		P1116	Y1046	L986		K917	Q855	H723	H723		E595
			H1182	F1047	L987		R917	L857	F724	F724		E596
			H1183	Y1046			R918	L858	S725	S725		E597
			K1184	H1048			G919	L859	A726	A726		K598
			Y1185	L1049			A920	L860	L727	L727		E599
			L1186	A1050			T921	C859	L728	L728		L600
			S1187	V1051			A922	M860	A729	A729		Q801
			S1188					T861	V666	V666		A802
			S1189	T1055				L794	F668	F668		E803
			K1190	H1056				L795	K732	K732		Q670
			E1191	Y1057				L863	L733	L733		M605
			Y1192	S1058				L864	N678	N678		L806
			F1193	L1059				L865	F677	F677		V607
			A1194	Q1060				L866	A742	A742		T808
			L1195	L1061				L867	N738	N738		F009
			L1196	E1062				L868	F739	F739		T610
			Y1197	T1063				L869	A744	A744		P811
			S1198	F1064				L870	D745	D745		S612
			L1199	S1065				L871	E682	E682		K613
			L1200					L872	S747	S747		D614
			L1201	K1068				L873	V810	V810		S615
			E1202	R1069				L874	K811	K811		T616
			M1203					L875	I812	I812		K617
			L1204	T1072				L876	K813	K813		D618
			D1205	V1073				L877	L752	L752		S619
			D1206	V1073				L878	D690	D690		F620
			Y1207	Y1076				L879	F754	F754		Q621
			R1208					P880	L757	L757		I622
			T1209	M1079				L881	K758	K758		A623
			L1210	R1080				L882	A759	A759		T626
			I1211	K1081				L883	P821	P821		C627
			M1212	E1082				L884	S822	S822		S628
			Q1213	I1083				L885	K761	K761		T629
			S1216	F1017				L886	L763	L763		K630
			K1217	R1086				L887	F764	F764		T632
			E1218	I1087				L888	V693	V693		Q633
			M1219	D1088				L889	S702	S702		M634
			R1220	I1089				L890				
			M1221	M1090				L891				
			T1224	Y1092				L892				
				Q1293				L893				
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● Molecule 1: Dedicator of cytokinesis protein 5



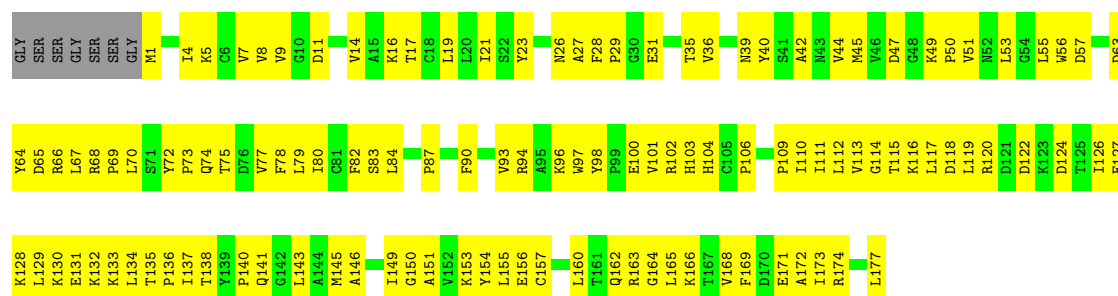


Chain C:  33% 64%



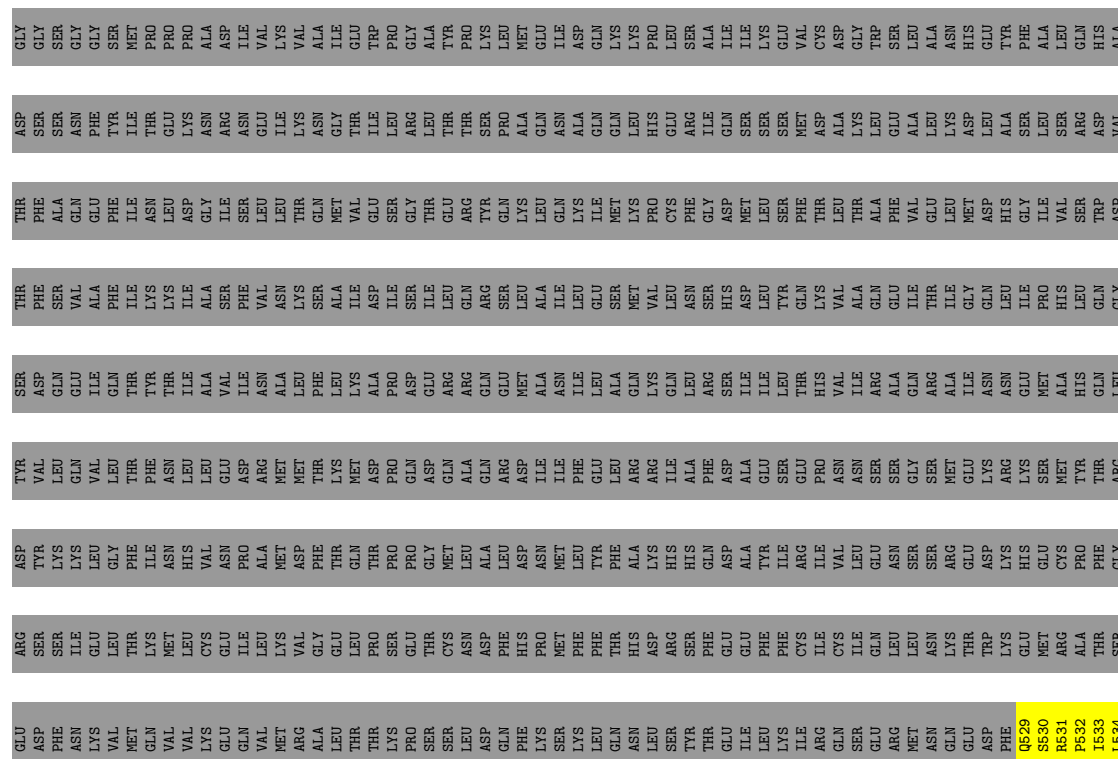
● Molecule 2: Ras-related C3 botulinum toxin substrate 1

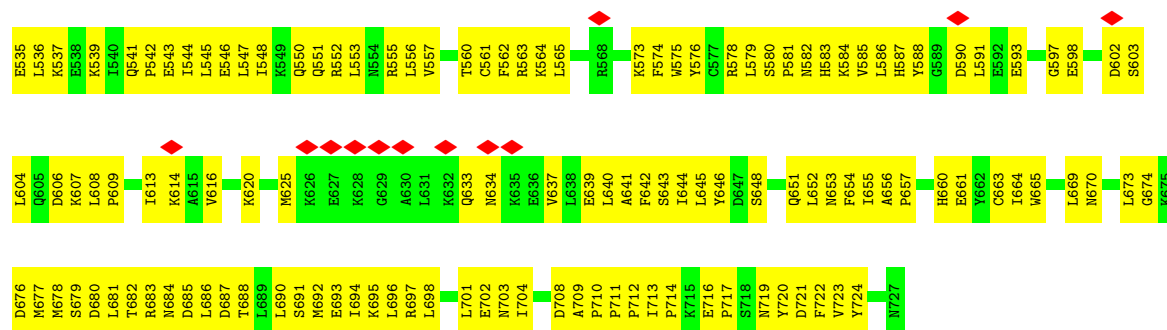
Chain G:  32% 64%



● Molecule 3: Engulfment and cell motility protein 1

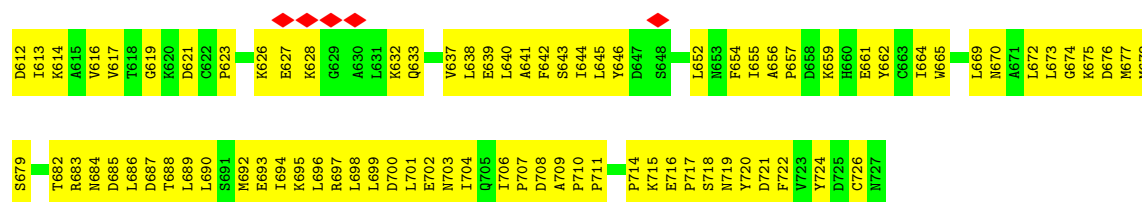
Chain E:  9% 18% 73%



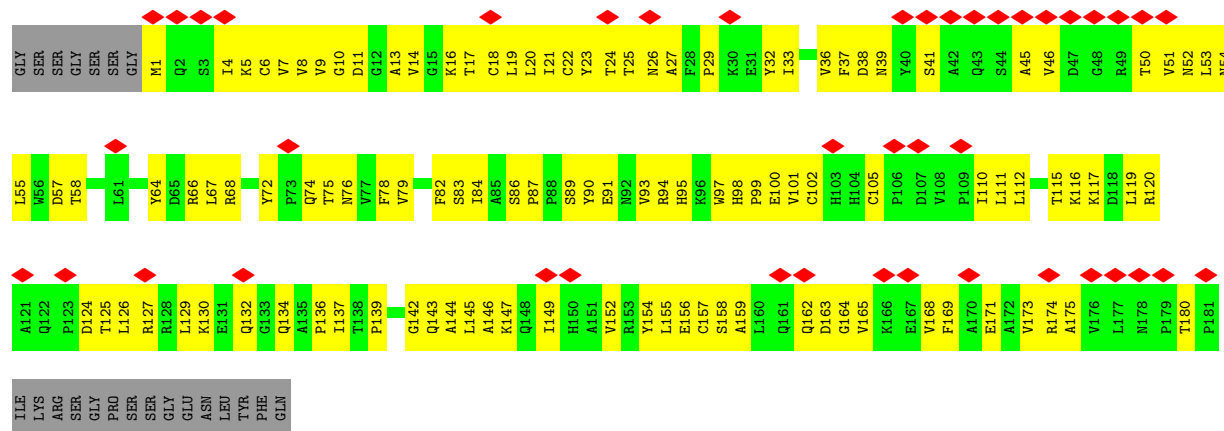


• Molecule 3: Engulfment and cell motility protein 1





• Molecule 4: Rho-related GTP-binding protein RhoG



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	169096	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	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	0.062	Depositor
Minimum map value	-0.021	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	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

5.1 Standard geometry

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

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	B	0.36	0/13722	0.61	1/18514 (0.0%)
1	F	0.29	0/13722	0.58	3/18514 (0.0%)
2	C	0.29	0/1415	0.53	0/1924
2	G	0.26	0/1415	0.54	0/1924
3	A	0.24	0/5992	0.57	1/8086 (0.0%)
3	E	0.24	0/1650	0.58	0/2230
4	D	0.22	0/1449	0.52	0/1977
All	All	0.30	0/39365	0.59	5/53169 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	96	ARG	CB-CG-CD	5.89	124.86	111.30
3	A	89	HIS	N-CA-CB	5.18	117.82	110.16
1	B	992	MET	CA-CB-CG	-5.05	104.00	114.10
1	F	95	LEU	CA-C-N	-5.05	112.29	120.72
1	F	95	LEU	C-N-CA	-5.05	112.29	120.72

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	110	LYS	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	13436	0	13516	1377	0
1	F	13436	0	13516	1102	0
2	C	1385	0	1407	120	0
2	G	1385	0	1407	147	0
3	A	5879	0	5902	508	0
3	E	1617	0	1625	160	0
4	D	1416	0	1413	123	0
5	D	1	0	0	0	0
6	D	32	0	12	3	0
All	All	38587	0	38798	3420	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 44.

All (3420) 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:F:1028:LEU:O	1:F:1032:PHE:HB2	1.63	0.98
1:F:1217:LYS:HA	1:F:1220:ARG:HE	1.31	0.94
3:A:302:PHE:HB3	3:A:431:GLY:H	1.31	0.94
1:B:1462:PHE:HB2	1:B:1489:TYR:HB2	1.46	0.94
1:F:740:TYR:HA	1:F:749:LYS:HD3	1.47	0.94
1:B:19:TYR:HH	1:B:44:TRP:HH2	1.15	0.92
3:A:209:VAL:HG11	3:A:249:ALA:HB1	1.51	0.92
1:B:37:ILE:HA	1:B:47:GLY:HA3	1.53	0.90
1:B:1209:THR:O	1:B:1213:GLN:HB3	1.70	0.89
1:B:789:ASN:HB3	1:B:793:GLN:HE22	1.37	0.88
1:F:37:ILE:HA	1:F:47:GLY:HA3	1.55	0.88
1:F:153:ASP:OD1	1:F:197:LYS:NZ	2.07	0.88
3:A:306:GLU:HG3	3:A:310:MET:HE2	1.56	0.87
1:F:25:VAL:HG21	1:F:56:LYS:HG3	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1166:GLU:HA	1:B:1169:LYS:HE3	1.58	0.86
3:A:617:VAL:HB	3:A:621:ASP:HB3	1.57	0.86
1:F:1435:MET:HE3	1:F:1436:SER:H	1.40	0.86
1:B:1391:ARG:HD2	1:B:1429:PHE:HA	1.56	0.85
2:G:171:GLU:HA	2:G:174:ARG:HG2	1.58	0.85
1:B:655:LYS:HB2	1:B:656:LYS:HZ2	1.39	0.85
1:F:157:ARG:NH2	1:F:201:GLU:OE1	2.08	0.85
1:B:285:SER:H	1:B:288:ASP:HB2	1.42	0.84
1:F:35:VAL:HG12	1:F:49:THR:HG22	1.60	0.84
1:F:1284:GLN:HE21	1:F:1286:ASP:HB2	1.40	0.84
1:B:945:ARG:HH21	1:B:946:GLN:HG2	1.39	0.84
1:F:668:PHE:HB3	1:F:671:ASP:HB2	1.58	0.84
1:B:927:LEU:HB3	1:B:931:ARG:HH12	1.42	0.83
1:F:1057:GLU:HA	1:F:1061:LEU:HD13	1.60	0.83
1:F:806:LEU:HD12	1:F:813:LYS:HD3	1.60	0.83
1:F:1633:VAL:HA	1:F:1637:TYR:HB2	1.59	0.83
1:F:1291:TYR:HB3	1:F:1296:LEU:HD21	1.59	0.83
1:B:1353:ILE:O	1:B:1449:GLN:NE2	2.12	0.82
3:A:306:GLU:HA	3:A:309:MET:HG2	1.59	0.82
1:B:537:GLN:HB2	1:B:540:ARG:HB3	1.60	0.82
1:F:1221:MET:HE1	1:F:1250:LEU:HB3	1.61	0.82
1:F:1587:GLU:HA	1:F:1590:LYS:HD2	1.62	0.82
1:B:323:GLY:HA2	1:B:351:ILE:HG13	1.61	0.82
1:B:330:THR:HA	1:B:333:ILE:HG12	1.62	0.81
1:B:1184:LYS:HG3	1:B:1185:TYR:H	1.45	0.81
1:B:904:GLN:O	1:B:908:ASN:ND2	2.13	0.81
1:F:1233:GLU:O	1:F:1235:LYS:NZ	2.14	0.81
3:E:670:ASN:ND2	3:E:676:ASP:O	2.13	0.81
2:C:116:LYS:HB3	2:C:119:LEU:HB2	1.62	0.81
1:F:132:LEU:HD22	3:E:703:ASN:HB2	1.61	0.81
1:B:1284:GLN:HG2	1:B:1286:ASP:H	1.45	0.81
1:F:297:VAL:HG12	1:F:299:GLN:HE21	1.42	0.81
1:F:1245:TYR:HD2	1:F:1248:ARG:HH21	1.29	0.81
2:G:90:PHE:HE2	2:G:137:ILE:HB	1.46	0.80
1:B:1057:GLU:O	1:B:1080:ARG:NH1	2.14	0.80
1:B:1276:LYS:NZ	1:B:1277:PRO:O	2.14	0.80
1:B:666:VAL:HA	1:B:669:LEU:HD23	1.64	0.80
3:A:670:ASN:ND2	3:A:676:ASP:O	2.13	0.80
1:B:1028:LEU:O	1:B:1032:PHE:HB2	1.80	0.80
1:B:851:GLN:O	1:B:856:LYS:NZ	2.14	0.80
1:B:1315:GLU:OE2	1:B:1357:ARG:NH2	2.13	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:79:THR:HG21	3:A:87:GLN:HE22	1.47	0.80
1:B:769:GLN:OE1	1:B:776:ARG:NH2	2.15	0.80
1:F:879:LEU:HG	1:F:931:ARG:HH22	1.46	0.80
1:F:1301:TYR:HE2	1:F:1320:LEU:HD12	1.47	0.80
1:F:1056:HIS:ND1	1:F:1057:GLU:OE2	2.14	0.79
2:C:153:LYS:NZ	2:C:154:TYR:O	2.16	0.79
1:F:910:LEU:HA	1:F:913:LEU:HD12	1.63	0.79
2:G:45:MET:HB3	2:G:50:PRO:HA	1.64	0.79
1:F:45:TYR:HD2	1:F:64:ILE:HG13	1.48	0.79
3:E:537:LYS:HB2	3:E:694:ILE:HG21	1.65	0.79
3:A:241:THR:O	3:A:293:GLN:NE2	2.17	0.78
3:A:448:HIS:HB3	3:A:451:SER:HB3	1.65	0.78
1:B:19:TYR:H	1:B:28:SER:HA	1.47	0.78
1:B:954:VAL:HA	1:B:957:MET:HE3	1.64	0.78
1:B:1543:SER:OG	1:B:1545:HIS:ND1	2.17	0.78
2:C:39:ASN:H	2:C:57:ASP:HB3	1.47	0.78
1:B:95:LEU:HA	1:B:98:TRP:CD1	2.18	0.78
1:B:485:HIS:HA	1:B:492:GLY:HA2	1.66	0.78
1:B:560:THR:HG22	1:B:638:LEU:HG	1.66	0.78
1:B:1057:GLU:HA	1:B:1061:LEU:HD13	1.65	0.78
1:B:1245:TYR:HD2	1:B:1248:ARG:HH21	1.31	0.78
1:F:166:ARG:NH1	1:F:167:ASP:OD1	2.16	0.78
1:F:1217:LYS:HG2	1:F:1220:ARG:HH21	1.46	0.78
1:B:1360:PRO:HA	1:B:1387:GLU:HA	1.64	0.77
1:B:46:ARG:NH2	3:A:726:CYS:SG	2.57	0.77
1:B:940:VAL:HA	1:B:943:MET:HB3	1.65	0.77
1:F:1088:ARG:HG3	1:F:1127:ILE:HD11	1.64	0.77
1:B:476:GLU:HG3	1:B:583:LYS:HD2	1.67	0.77
1:B:1159:VAL:O	1:B:1208:ARG:NH1	2.18	0.77
1:B:1579:HIS:HB3	1:B:1582:ASP:HB2	1.66	0.77
1:F:986:LEU:HG	1:F:1028:LEU:HD21	1.67	0.77
1:F:1057:GLU:O	1:F:1080:ARG:NH1	2.17	0.77
1:F:1360:PRO:HA	1:F:1387:GLU:HA	1.64	0.77
1:F:904:GLN:OE1	1:F:908:ASN:ND2	2.17	0.77
3:A:126:ILE:HG21	3:A:166:MET:HE3	1.67	0.77
3:A:331:ALA:HB1	3:A:399:VAL:HG21	1.67	0.77
1:B:1612:THR:HG22	1:B:1615:LEU:HD13	1.66	0.77
1:B:741:VAL:HG23	1:B:801:LEU:HD11	1.66	0.77
1:B:566:ARG:HE	1:B:621:GLN:HG3	1.48	0.76
1:F:1368:TYR:HD1	1:F:1408:MET:HE1	1.50	0.76
4:D:93:VAL:HA	4:D:97:TRP:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:225:TYR:N	1:B:404:LYS:O	2.19	0.76
1:B:934:ARG:NH1	1:B:934:ARG:O	2.17	0.76
1:B:484:ILE:HG21	1:B:496:TYR:HB2	1.67	0.76
1:F:632:THR:HG23	1:F:664:GLU:HB3	1.67	0.76
1:F:883:THR:HG21	1:F:931:ARG:HG3	1.67	0.76
1:B:740:TYR:HA	1:B:749:LYS:HD3	1.67	0.76
1:B:1563:PHE:HA	1:B:1566:TYR:HD2	1.51	0.76
1:B:1167:GLN:OE1	1:B:1167:GLN:N	2.18	0.76
1:B:154:HIS:HB2	1:B:197:LYS:HZ2	1.51	0.76
1:B:1183:HIS:CE1	1:B:1186:LEU:HB3	2.21	0.76
1:B:1010:ASN:OD1	1:B:1013:GLN:NE2	2.18	0.75
1:B:37:ILE:HD13	1:B:45:TYR:HB3	1.67	0.75
1:B:1597:MET:HG3	1:B:1633:VAL:HG21	1.67	0.75
2:G:90:PHE:HB3	2:G:94:ARG:HH22	1.51	0.75
1:B:1408:MET:HB2	1:B:1427:GLN:HB3	1.67	0.75
2:G:98:TYR:HE1	2:G:149:ILE:HD13	1.51	0.75
1:B:1545:HIS:O	1:B:1548:SER:OG	2.03	0.75
3:A:677:MET:O	3:A:683:ARG:NH2	2.16	0.75
1:B:434:PRO:O	1:B:708:LYS:NZ	2.17	0.75
1:B:36:HIS:N	1:B:48:TYR:O	2.19	0.75
1:B:1010:ASN:O	1:B:1013:GLN:NE2	2.18	0.75
1:B:1620:GLU:OE2	1:B:1621:ARG:NH1	2.20	0.75
3:A:561:CYS:HB3	3:A:574:PHE:HB3	1.68	0.75
1:B:864:VAL:HG21	1:B:909:ILE:HG22	1.68	0.75
2:G:7:VAL:HA	2:G:56:TRP:HB2	1.69	0.74
1:F:165:VAL:HG23	1:F:175:PRO:HD3	1.68	0.74
1:B:1117:GLU:OE1	1:B:1119:GLU:N	2.20	0.74
1:F:1159:VAL:O	1:F:1208:ARG:NH1	2.20	0.74
1:F:1390:ARG:NH2	2:G:23:TYR:O	2.20	0.74
1:B:467:GLU:HB2	1:B:500:VAL:HG22	1.68	0.74
1:B:1561:GLY:O	1:B:1565:ASN:ND2	2.18	0.74
1:F:1219:ASN:OD1	1:F:1401:GLN:NE2	2.21	0.74
1:F:1248:ARG:NH1	1:F:1249:ASP:OD1	2.19	0.74
1:B:930:GLU:O	1:B:935:ARG:NH2	2.21	0.74
1:F:954:VAL:HA	1:F:957:MET:HE2	1.69	0.74
3:A:582:ASN:HB3	3:A:584:LYS:HG2	1.69	0.74
1:F:150:ALA:O	1:F:197:LYS:NZ	2.20	0.74
1:F:1525:THR:HA	1:F:1528:ARG:HH11	1.52	0.74
4:D:78:PHE:HE2	4:D:105:CYS:HB2	1.53	0.74
1:B:1315:GLU:OE1	1:B:1315:GLU:N	2.16	0.74
1:B:1463:ARG:HD3	1:B:1486:ARG:HD2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:79:THR:HG22	1:B:85:LEU:HB2	1.69	0.74
1:F:145:LYS:HD2	1:F:169:ASN:H	1.53	0.74
3:E:530:SER:HB2	3:E:533:ILE:HD13	1.70	0.74
1:B:1111:GLU:O	1:B:1163:ARG:NH2	2.21	0.74
1:F:95:LEU:HD23	1:F:98:TRP:HD1	1.52	0.74
4:D:120:ARG:NH1	4:D:137:ILE:O	2.21	0.74
3:A:694:ILE:HA	3:A:697:ARG:HG2	1.69	0.73
1:B:875:ARG:NH1	1:B:920:ALA:O	2.20	0.73
3:A:97:MET:HE1	3:A:147:MET:HE1	1.69	0.73
1:B:199:GLN:HA	1:B:202:LYS:HZ3	1.53	0.73
4:D:51:VAL:HG11	4:D:173:VAL:HG11	1.70	0.73
1:B:1368:TYR:O	1:B:1425:TYR:N	2.17	0.73
1:F:5:ILE:H	1:F:40:MET:H	1.37	0.73
3:E:531:ARG:NH2	3:E:708:ASP:OD2	2.21	0.73
3:A:584:LYS:O	3:A:607:LYS:NZ	2.22	0.73
1:F:96:ARG:HH22	1:F:1067:ALA:HB2	1.54	0.73
1:F:1362:TYR:HE2	1:F:1459:VAL:HG21	1.53	0.73
1:B:95:LEU:HA	1:B:98:TRP:HD1	1.53	0.73
1:B:228:PHE:HE2	1:B:399:LEU:HB2	1.54	0.73
1:B:1275:ASP:O	1:B:1292:THR:OG1	2.07	0.73
1:F:705:GLY:O	1:F:710:GLN:NE2	2.19	0.73
1:F:961:LEU:HA	1:F:964:MET:HB3	1.69	0.73
1:B:79:THR:HG21	1:B:83:GLY:H	1.53	0.72
1:B:1063:THR:HA	1:B:1069:ARG:HH11	1.53	0.72
1:B:1633:VAL:HA	1:B:1637:TYR:HB2	1.70	0.72
1:F:33:ASP:HA	1:F:51:GLN:HE22	1.54	0.72
1:F:1156:ASP:OD2	1:F:1242:ARG:NH2	2.22	0.72
3:A:86:GLN:O	3:A:89:HIS:ND1	2.22	0.72
1:B:110:LYS:HZ2	1:B:113:LEU:HB2	1.55	0.72
1:F:102:TRP:HB2	1:F:114:PHE:HE1	1.53	0.72
1:F:1063:THR:HA	1:F:1069:ARG:HH11	1.54	0.72
1:F:72:GLU:HA	1:F:89:GLN:HE22	1.54	0.72
1:B:86:PRO:HA	1:B:89:GLN:HE21	1.53	0.72
1:B:140:GLU:N	1:B:140:GLU:OE1	2.21	0.72
1:B:474:ASP:O	1:B:526:HIS:ND1	2.23	0.72
1:B:498:SER:HB2	1:B:509:TRP:HE1	1.54	0.72
1:B:900:GLU:O	1:B:903:SER:OG	2.08	0.72
1:B:944:ASN:O	1:B:946:GLN:NE2	2.22	0.72
1:B:979:ARG:NH2	1:B:1031:PHE:O	2.23	0.72
1:B:1367:TYR:HH	1:B:1383:TYR:HH	1.36	0.72
1:F:60:PRO:HB3	3:E:714:PRO:HD2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1248:ARG:HH11	1:F:1252:ARG:HH12	1.37	0.72
2:G:9:VAL:HG22	2:G:78:PHE:HZ	1.54	0.72
1:F:871:GLN:HB2	1:F:918:VAL:HG12	1.72	0.72
1:F:1359:GLN:NE2	1:F:1360:PRO:O	2.23	0.72
2:G:90:PHE:HB3	2:G:94:ARG:NH2	2.05	0.72
3:A:134:GLU:OE1	3:A:177:SER:OG	2.08	0.72
3:A:328:ARG:HE	3:A:329:ARG:HH21	1.37	0.72
1:F:59:PHE:HD2	1:F:64:ILE:HG12	1.54	0.72
1:B:154:HIS:HA	1:B:157:ARG:HE	1.55	0.72
1:B:446:ILE:HB	1:B:515:VAL:HB	1.71	0.72
1:B:1372:PHE:O	1:B:1377:ARG:NH2	2.23	0.72
1:F:1560:MET:HE1	2:G:36:VAL:HG12	1.72	0.72
3:A:619:GLY:HA3	3:A:638:LEU:HD12	1.71	0.72
2:G:100:GLU:O	2:G:104:HIS:ND1	2.23	0.71
1:B:890:LEU:HD22	1:B:935:ARG:HG3	1.72	0.71
2:C:130:LYS:HE3	2:C:136:PRO:HD3	1.72	0.71
1:F:242:PHE:HB3	1:F:257:ASN:HB3	1.72	0.71
1:B:150:ALA:O	1:B:197:LYS:NZ	2.24	0.71
1:F:761:LYS:HG3	1:F:765:ARG:HH21	1.55	0.71
1:F:1166:GLU:HA	1:F:1169:LYS:HE3	1.72	0.71
1:F:1277:PRO:HG3	1:F:1292:THR:HA	1.71	0.71
1:B:1200:LEU:HD23	1:B:1230:PHE:HE2	1.55	0.71
1:B:1439:PRO:HA	1:B:1442:LYS:HZ2	1.54	0.71
1:F:239:ALA:HB3	1:F:262:TRP:HB3	1.72	0.71
1:F:532:ARG:HA	1:F:546:ALA:HA	1.71	0.71
1:F:1545:HIS:HD2	2:G:5:LYS:HE3	1.54	0.71
1:B:1:MET:HE2	3:A:718:SER:HA	1.70	0.71
1:B:555:MET:HA	1:B:561:THR:HA	1.73	0.71
3:A:216:TYR:HE1	3:A:250:LEU:HA	1.54	0.71
3:A:235:SER:O	3:A:284:ARG:NH1	2.23	0.71
1:B:972:TYR:HA	1:B:975:THR:HB	1.70	0.71
1:B:122:TYR:CZ	3:A:692:MET:HE3	2.26	0.71
1:F:1623:SER:HB3	1:F:1627:ARG:HH22	1.55	0.71
4:D:19:LEU:HD21	4:D:168:VAL:HG11	1.72	0.71
3:A:509:LEU:HA	3:A:514:ILE:HD11	1.71	0.71
1:B:1155:LEU:HD21	1:B:1201:LEU:HD21	1.73	0.71
1:F:472:VAL:HB	1:F:483:ALA:HB1	1.72	0.71
1:F:1081:LYS:HD2	1:F:1120:LEU:HD23	1.71	0.71
2:G:7:VAL:HG23	2:G:75:THR:HG21	1.73	0.71
1:B:237:GLU:OE2	1:B:305:HIS:N	2.23	0.71
1:B:871:GLN:HG2	1:B:875:ARG:HD3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:563:GLN:O	1:B:567:HIS:NE2	2.23	0.70
1:B:730:TYR:HB3	1:B:770:SER:HB3	1.71	0.70
1:F:495:GLU:O	1:F:497:LYS:NZ	2.23	0.70
1:B:843:PHE:O	1:B:846:SER:OG	2.09	0.70
1:B:1622:LEU:O	1:B:1626:PHE:HB2	1.91	0.70
2:C:9:VAL:HG22	2:C:78:PHE:HZ	1.53	0.70
3:A:564:LYS:HG3	3:A:575:TRP:NE1	2.06	0.70
1:B:638:LEU:HD13	1:B:641:LEU:HD12	1.72	0.70
1:B:1370:GLN:OE1	1:B:1377:ARG:NH1	2.25	0.70
1:F:237:GLU:OE2	1:F:305:HIS:N	2.24	0.70
3:A:529:GLN:HG3	3:A:534:LEU:HD11	1.74	0.70
1:B:2:ALA:H	3:A:717:PRO:HG2	1.55	0.70
1:B:138:LYS:HA	1:B:141:LEU:HD13	1.73	0.70
1:B:1525:THR:HA	1:B:1528:ARG:HH11	1.56	0.70
1:F:1185:TYR:O	1:F:1188:SER:OG	2.07	0.70
4:D:4:ILE:HD12	4:D:173:VAL:HG13	1.74	0.70
1:B:181:ILE:HG22	1:B:185:LYS:HZ1	1.57	0.70
1:F:904:GLN:O	1:F:908:ASN:ND2	2.25	0.70
1:F:1440:SER:H	1:F:1442:LYS:HZ2	1.38	0.70
3:E:561:CYS:HB3	3:E:574:PHE:HA	1.74	0.70
1:B:961:LEU:O	1:B:1019:ARG:NH1	2.25	0.70
1:B:1307:TYR:HD1	1:B:1310:LYS:HZ3	1.38	0.70
1:F:1:MET:HE1	1:F:23:GLN:HE21	1.55	0.70
1:F:1275:ASP:O	1:F:1292:THR:OG1	2.08	0.70
2:G:153:LYS:NZ	2:G:154:TYR:O	2.25	0.70
1:B:318:LEU:HD22	1:B:320:ARG:HH22	1.56	0.70
1:B:792:ARG:NE	1:B:835:GLU:OE1	2.19	0.70
1:B:871:GLN:HB2	1:B:918:VAL:HG12	1.74	0.70
1:F:745:ASP:HB3	1:F:804:ARG:HH22	1.56	0.70
2:G:14:VAL:HB	2:G:16:LYS:HZ3	1.55	0.70
1:B:680:MET:HE1	1:B:690:ASP:HA	1.74	0.70
1:F:870:ARG:NH1	1:F:872:SER:OG	2.24	0.70
1:B:1062:GLU:HB3	1:B:1069:ARG:HA	1.74	0.69
1:B:789:ASN:OD1	1:B:792:ARG:NH1	2.25	0.69
2:C:45:MET:HA	2:C:50:PRO:HA	1.74	0.69
1:F:1536:HIS:HA	1:F:1542:LEU:HD13	1.73	0.69
1:B:1152:ILE:HD12	1:B:1200:LEU:HD11	1.73	0.69
3:A:398:ILE:O	3:A:402:ASN:ND2	2.26	0.69
1:B:1356:MET:N	1:B:1356:MET:SD	2.65	0.69
1:F:1349:TYR:HA	1:F:1352:ILE:HD12	1.75	0.69
1:B:1007:MET:N	1:B:1007:MET:SD	2.61	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1486:ARG:NH2	1:B:1510:GLU:OE1	2.26	0.69
1:F:1114:LEU:HD22	1:F:1163:ARG:HB3	1.75	0.69
1:B:496:TYR:OH	1:B:511:GLU:OE2	2.10	0.69
1:B:1342:LEU:HD11	1:F:1346:ALA:HB2	1.75	0.69
1:B:327:MET:HE3	1:B:347:PRO:HD2	1.73	0.69
1:B:795:PHE:CE2	1:B:843:PHE:HB2	2.28	0.69
1:F:581:ASP:HB3	1:F:584:PHE:HB3	1.74	0.69
1:F:1335:TYR:HA	1:F:1338:LEU:HD23	1.73	0.69
1:B:1360:PRO:HG2	1:B:1362:TYR:HE1	1.58	0.69
1:F:70:THR:HG22	1:F:71:VAL:H	1.57	0.69
1:F:93:SER:O	1:F:96:ARG:HD3	1.92	0.69
1:F:852:LEU:HB2	1:F:856:LYS:HE2	1.75	0.69
1:F:1469:ARG:HA	1:F:1481:THR:HB	1.73	0.69
3:A:51:LEU:O	3:A:61:ILE:N	2.22	0.69
4:D:10:GLY:O	4:D:16:LYS:NZ	2.25	0.69
1:B:187:HIS:HD1	1:B:1006:TRP:HD1	1.38	0.69
1:B:646:ASN:OD1	1:B:649:ASN:ND2	2.26	0.69
1:B:802:MET:SD	1:B:846:SER:OG	2.50	0.69
1:F:35:VAL:HA	1:F:49:THR:HA	1.75	0.69
1:F:1532:CYS:O	1:F:1535:GLN:NE2	2.24	0.69
3:A:81:PRO:HB3	3:A:116:PHE:HA	1.75	0.69
3:A:309:MET:HE1	3:A:376:PRO:HB3	1.72	0.69
1:B:1056:HIS:ND1	1:B:1057:GLU:OE2	2.26	0.69
1:B:1231:TYR:HE2	1:B:1243:TYR:HE2	1.41	0.69
1:F:454:GLU:HA	1:F:506:GLN:HG2	1.74	0.69
1:F:1218:GLU:N	1:F:1218:GLU:OE1	2.25	0.69
1:B:913:LEU:HD23	1:B:925:ILE:HG22	1.73	0.68
1:F:110:LYS:HZ3	1:F:113:LEU:HB2	1.58	0.68
1:F:1121:ARG:HH11	1:F:1171:LEU:HD12	1.57	0.68
1:F:1438:PRO:HB2	1:F:1441:TYR:HB2	1.74	0.68
1:B:72:GLU:OE1	1:B:74:LEU:N	2.26	0.68
1:B:1522:MET:HE1	1:B:1593:ILE:HA	1.74	0.68
1:F:95:LEU:HA	1:F:98:TRP:CD1	2.29	0.68
3:A:138:GLU:OE2	3:A:139:ARG:NH1	2.26	0.68
4:D:32:TYR:HA	6:D:202:GTP:H5''	1.75	0.68
1:B:730:TYR:HB2	1:B:767:ILE:HG23	1.76	0.68
1:B:879:LEU:HB2	1:B:924:HIS:HE1	1.58	0.68
1:B:1584:GLU:HG3	1:B:1585:LYS:HD2	1.76	0.68
1:F:79:THR:HG22	1:F:85:LEU:HB2	1.75	0.68
1:F:376:ASN:ND2	1:F:502:TYR:O	2.24	0.68
1:F:678:ASN:HA	1:F:681:MET:HG2	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:789:ASN:OD1	1:F:792:ARG:NH1	2.26	0.68
1:F:824:ILE:HB	1:F:836:LEU:HD21	1.75	0.68
1:B:1238:ASP:HA	1:B:1241:ILE:HD12	1.75	0.68
3:A:315:PRO:O	3:A:320:GLN:NE2	2.25	0.68
4:D:11:ASP:OD1	4:D:97:TRP:NE1	2.17	0.68
1:F:1328:TYR:HA	1:F:1332:VAL:HG12	1.75	0.68
1:F:1365:VAL:O	1:F:1381:PHE:N	2.18	0.68
3:A:547:LEU:O	3:A:550:GLN:NE2	2.27	0.68
1:B:106:TYR:O	3:A:555:ARG:NH2	2.27	0.68
1:B:70:THR:HG22	1:B:71:VAL:H	1.59	0.68
1:F:565:GLY:N	1:F:624:THR:O	2.25	0.68
1:F:979:ARG:NH2	1:F:1031:PHE:O	2.27	0.68
3:A:58:ASN:OD1	3:A:76:ARG:NH2	2.27	0.68
1:B:344:HIS:N	1:B:401:VAL:O	2.27	0.68
1:B:669:LEU:O	1:B:672:THR:OG1	2.11	0.68
1:F:1097:HIS:HA	1:F:1100:LYS:HE2	1.75	0.68
2:G:4:ILE:H	2:G:53:LEU:HA	1.59	0.68
2:G:11:ASP:O	2:G:16:LYS:NZ	2.26	0.68
3:A:266:LEU:HA	3:A:271:LEU:HD13	1.76	0.68
1:B:876:GLU:N	1:B:876:GLU:OE1	2.27	0.68
3:E:608:LEU:HD11	3:E:613:ILE:HD11	1.76	0.68
3:A:526:GLU:O	3:A:530:SER:N	2.23	0.68
1:B:25:VAL:HG21	1:B:56:LYS:HG3	1.75	0.67
1:B:1111:GLU:N	1:B:1111:GLU:OE1	2.25	0.67
1:F:247:ASP:HB3	1:F:250:GLN:HB2	1.76	0.67
3:A:113:ASP:HB3	3:A:116:PHE:HB3	1.75	0.67
3:A:530:SER:HB2	3:A:533:ILE:HD13	1.76	0.67
1:B:719:TYR:CD1	1:B:723:HIS:HB2	2.30	0.67
1:F:241:LEU:HB2	1:F:260:ILE:HB	1.75	0.67
1:F:332:ILE:HD13	1:F:403:LEU:HD13	1.76	0.67
1:F:1062:GLU:HB3	1:F:1069:ARG:HA	1.76	0.67
1:B:34:THR:OG1	3:A:700:ASP:OD2	2.12	0.67
1:B:1218:GLU:OE1	1:B:1218:GLU:N	2.27	0.67
1:B:1390:ARG:NH2	2:C:23:TYR:O	2.28	0.67
1:F:1:MET:H3	3:E:717:PRO:HD2	1.58	0.67
1:F:4:TRP:O	3:E:724:TYR:N	2.28	0.67
3:E:557:VAL:O	3:E:578:ARG:NH1	2.28	0.67
3:A:87:GLN:O	3:A:91:ARG:HG2	1.94	0.67
1:B:85:LEU:HA	1:B:88:VAL:HG12	1.75	0.67
1:B:91:LEU:O	1:B:95:LEU:HG	1.94	0.67
1:B:129:SER:HA	1:B:132:LEU:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1065:SER:OG	1:B:1068:LYS:N	2.28	0.67
1:B:1374:SER:O	1:B:1379:LYS:NZ	2.27	0.67
3:A:108:ALA:O	3:A:112:ARG:NH1	2.27	0.67
1:B:73:ASP:HA	1:B:78:GLU:HB2	1.77	0.67
2:C:170:ASP:HB3	2:C:174:ARG:HH21	1.60	0.67
1:F:306:MET:H	1:F:314:HIS:HB3	1.59	0.67
1:F:519:ILE:HG21	1:F:630:LYS:HB3	1.77	0.67
3:E:551:GLN:HG2	3:E:552:ARG:HH21	1.60	0.67
3:E:692:MET:O	3:E:696:LEU:N	2.28	0.67
1:B:302:ARG:HG3	1:B:320:ARG:HB2	1.77	0.67
1:B:1180:CYS:O	1:B:1187:SER:OG	2.10	0.67
1:F:789:ASN:HA	1:F:792:ARG:HD2	1.75	0.67
1:F:1366:GLY:HA2	1:F:1380:ILE:HA	1.76	0.67
1:F:1631:GLU:OE1	1:F:1635:LYS:NZ	2.28	0.67
4:D:39:ASN:ND2	4:D:54:ASN:OD1	2.20	0.67
4:D:124:ASP:OD1	4:D:127:ARG:NH1	2.27	0.67
1:B:1532:CYS:O	1:B:1535:GLN:NE2	2.26	0.67
3:A:665:TRP:O	3:A:669:LEU:HG	1.94	0.67
1:B:965:ASP:OD1	1:B:966:ASP:N	2.28	0.67
1:B:1117:GLU:OE2	1:B:1121:ARG:N	2.25	0.67
1:F:1148:GLU:O	1:F:1152:ILE:HG12	1.94	0.67
1:B:31:ILE:HG21	3:A:698:LEU:HA	1.77	0.67
1:B:114:PHE:O	1:B:117:LEU:HB3	1.95	0.67
1:F:1490:THR:OG1	1:F:1506:GLN:HB3	1.95	0.67
3:A:83:GLN:OE1	3:A:86:GLN:NE2	2.28	0.67
1:B:590:GLY:N	1:B:594:GLU:OE2	2.28	0.66
1:B:1196:LEU:O	1:B:1199:SER:OG	2.13	0.66
1:F:1506:GLN:NE2	1:F:1508:SER:OG	2.22	0.66
3:A:13:GLU:O	3:A:77:LEU:N	2.27	0.66
1:B:844:ILE:HB	1:B:881:LEU:HD11	1.76	0.66
1:B:1259:GLU:OE1	1:B:1259:GLU:N	2.29	0.66
1:F:857:LEU:HA	1:F:860:MET:SD	2.35	0.66
1:F:930:GLU:O	1:F:935:ARG:NH2	2.28	0.66
3:A:352:TYR:O	3:A:356:TYR:HB2	1.95	0.66
1:B:1051:VAL:HG21	1:B:1108:PRO:HB3	1.77	0.66
1:F:102:TRP:HB2	1:F:114:PHE:CE1	2.31	0.66
1:F:943:MET:HE3	1:F:950:ILE:HG13	1.77	0.66
1:F:1362:TYR:HD2	1:F:1462:PHE:HE2	1.43	0.66
2:G:116:LYS:HB3	2:G:119:LEU:HB2	1.77	0.66
3:A:132:MET:HG3	3:A:133:VAL:HG13	1.76	0.66
3:A:579:LEU:HD11	3:A:583:HIS:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:44:TRP:CD1	3:A:716:GLU:HG3	2.31	0.66
1:F:1451:LEU:HB3	1:F:1455:ARG:HH22	1.61	0.66
1:F:465:ASN:ND2	1:F:534:ARG:O	2.28	0.66
1:F:772:VAL:HA	1:F:775:LEU:HG	1.78	0.66
1:F:1418:ILE:HA	1:F:1421:SER:HB3	1.77	0.66
1:F:1484:ILE:HB	1:F:1512:ILE:HB	1.78	0.66
3:A:333:ASP:HA	3:A:336:SER:HB2	1.76	0.66
1:F:1167:GLN:OE1	1:F:1167:GLN:N	2.25	0.66
3:A:640:LEU:HB3	3:A:656:ALA:H	1.61	0.66
4:D:13:ALA:HA	6:D:202:GTP:H5'	1.76	0.66
1:B:860:MET:HA	1:B:863:ILE:HD13	1.78	0.66
2:C:11:ASP:OD1	2:C:16:LYS:NZ	2.29	0.66
3:A:308:ARG:NE	3:A:382:ASP:OD2	2.28	0.66
3:A:614:LYS:HB2	3:A:645:LEU:HB2	1.78	0.66
1:B:372:VAL:O	1:B:376:ASN:ND2	2.29	0.66
1:B:923:VAL:O	1:B:927:LEU:HG	1.96	0.66
1:B:1015:ARG:HA	1:B:1018:LEU:HD12	1.77	0.66
1:B:1120:LEU:O	1:B:1124:THR:OG1	2.09	0.66
1:F:1128:PHE:HA	1:F:1131:MET:SD	2.36	0.66
1:F:1549:MET:HE1	2:G:56:TRP:CE2	2.31	0.66
1:F:1590:LYS:HB3	1:F:1639:VAL:HG12	1.78	0.66
3:E:692:MET:HA	3:E:695:LYS:HE3	1.77	0.66
1:B:771:ARG:HH12	1:B:784:GLY:HA2	1.60	0.66
1:F:1607:HIS:NE2	1:F:1619:HIS:HB2	2.11	0.66
2:G:64:TYR:HB2	2:G:68:ARG:HH21	1.59	0.66
3:A:377:GLY:H	3:A:418:ILE:HD11	1.61	0.66
3:A:441:PHE:O	3:A:495:LYS:NZ	2.23	0.66
1:B:259:LEU:N	1:B:488:ALA:O	2.24	0.65
1:B:939:THR:O	1:B:943:MET:N	2.21	0.65
1:B:970:SER:O	1:B:974:SER:OG	2.14	0.65
1:B:1470:LYS:H	1:B:1481:THR:HB	1.60	0.65
1:F:1391:ARG:HH22	2:G:29:PRO:HD3	1.59	0.65
3:A:245:ALA:HB2	3:A:293:GLN:HE22	1.60	0.65
1:B:154:HIS:O	1:B:157:ARG:HG2	1.96	0.65
1:B:1231:TYR:O	1:B:1235:LYS:N	2.30	0.65
1:B:1469:ARG:HD2	1:B:1481:THR:OG1	1.95	0.65
1:F:115:ARG:O	1:F:119:GLN:NE2	2.29	0.65
1:F:1149:ASN:HA	1:F:1236:ARG:HH22	1.59	0.65
1:F:1307:TYR:O	1:F:1311:GLY:N	2.26	0.65
3:E:547:LEU:O	3:E:550:GLN:NE2	2.28	0.65
1:B:1169:LYS:HA	1:B:1172:LEU:HD12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:485:HIS:HA	1:F:492:GLY:HA3	1.79	0.65
1:F:1568:LYS:O	1:F:1572:THR:OG1	2.13	0.65
3:A:141:GLN:HA	3:A:144:GLN:HG3	1.78	0.65
2:G:80:ILE:HD11	2:G:97:TRP:HB3	1.79	0.65
2:G:149:ILE:HG23	2:G:151:ALA:H	1.60	0.65
3:E:580:SER:O	3:E:583:HIS:ND1	2.30	0.65
4:D:11:ASP:O	4:D:16:LYS:NZ	2.28	0.65
1:B:330:THR:O	1:B:334:HIS:ND1	2.29	0.65
1:B:844:ILE:HG21	1:B:881:LEU:HD21	1.79	0.65
1:B:1024:PHE:HA	1:B:1027:VAL:HG12	1.78	0.65
1:F:297:VAL:HG13	1:F:326:VAL:HG22	1.79	0.65
2:G:7:VAL:HB	2:G:78:PHE:HD2	1.60	0.65
3:A:708:ASP:OD1	3:A:709:ALA:N	2.29	0.65
1:B:1416:GLU:HA	1:B:1419:LYS:HG2	1.77	0.65
1:F:463:PRO:HD2	1:F:503:GLN:HB3	1.79	0.65
1:B:517:ILE:HD12	1:B:522:VAL:HG23	1.77	0.65
3:E:603:SER:N	3:E:606:ASP:OD1	2.29	0.65
3:A:256:ASP:HA	3:A:259:ARG:HD3	1.79	0.65
3:A:358:LYS:HA	3:A:406:GLU:HA	1.78	0.65
1:B:446:ILE:HG12	1:B:626:ILE:HG23	1.78	0.65
1:B:789:ASN:HB3	1:B:793:GLN:NE2	2.10	0.65
1:F:555:MET:HA	1:F:561:THR:HA	1.79	0.65
1:F:1568:LYS:O	1:F:1574:LYS:NZ	2.30	0.65
3:E:588:TYR:N	3:E:603:SER:OG	2.29	0.65
3:E:591:LEU:HD21	3:E:604:LEU:H	1.62	0.65
1:B:44:TRP:CZ2	1:B:60:PRO:HG3	2.32	0.65
1:B:414:GLN:O	1:B:423:ARG:NH2	2.30	0.65
1:B:1525:THR:HA	1:B:1528:ARG:HD3	1.79	0.65
1:F:98:TRP:HA	1:F:101:ILE:HG22	1.78	0.65
1:F:99:ALA:HA	1:F:102:TRP:CD1	2.32	0.65
1:F:590:GLY:N	1:F:594:GLU:OE2	2.27	0.65
3:A:608:LEU:HD11	3:A:613:ILE:HD11	1.79	0.65
1:B:31:ILE:HG22	3:A:701:LEU:HD23	1.79	0.65
1:F:1534:GLN:HB3	1:F:1538:TRP:CH2	2.31	0.65
2:G:100:GLU:HB2	2:G:104:HIS:HE1	1.62	0.65
3:A:423:MET:HG2	3:A:481:MET:HE3	1.78	0.65
1:B:219:ILE:O	1:B:222:TYR:OH	2.15	0.64
1:B:1209:THR:O	1:B:1213:GLN:CB	2.44	0.64
1:B:1391:ARG:NH1	1:B:1428:CYS:O	2.30	0.64
1:F:166:ARG:HD3	1:F:173:LEU:HB2	1.79	0.64
2:G:49:LYS:NZ	2:G:50:PRO:O	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:74:LEU:HD22	1:B:83:GLY:HA2	1.79	0.64
2:C:5:LYS:HE2	2:C:56:TRP:HZ2	1.62	0.64
1:F:25:VAL:HG23	1:F:57:GLY:HA2	1.78	0.64
1:F:757:LEU:HA	1:F:760:LEU:HG	1.79	0.64
4:D:78:PHE:HB2	4:D:110:ILE:HG12	1.78	0.64
1:B:1275:ASP:OD2	1:B:1292:THR:OG1	2.15	0.64
1:B:1335:TYR:HA	1:B:1338:LEU:HD23	1.77	0.64
1:B:1549:MET:O	2:C:39:ASN:ND2	2.30	0.64
1:F:1225:VAL:HG21	1:F:1499:LEU:HD21	1.79	0.64
1:F:1452:ASN:OD1	1:F:1453:TYR:N	2.30	0.64
3:A:216:TYR:CE1	3:A:250:LEU:HA	2.32	0.64
3:A:566:ASN:OD1	3:A:633:GLN:NE2	2.31	0.64
3:A:616:VAL:HB	3:A:644:ILE:HG12	1.79	0.64
1:B:1183:HIS:HE1	1:B:1186:LEU:HB3	1.62	0.64
1:F:1536:HIS:CG	1:F:1542:LEU:HD22	2.32	0.64
3:E:564:LYS:HE3	3:E:590:ASP:HA	1.78	0.64
3:A:564:LYS:HB2	3:A:567:ALA:HB2	1.79	0.64
1:F:181:ILE:HA	1:F:184:PHE:HB3	1.80	0.64
1:F:1117:GLU:OE1	1:F:1119:GLU:N	2.30	0.64
3:E:719:ASN:ND2	3:E:721:ASP:OD2	2.31	0.64
1:B:789:ASN:HA	1:B:792:ARG:HD2	1.79	0.64
1:F:187:HIS:HD1	1:F:1006:TRP:HD1	1.46	0.64
1:F:551:PHE:HE1	1:F:579:MET:HE1	1.62	0.64
1:F:979:ARG:O	1:F:982:ILE:HG22	1.98	0.64
1:B:566:ARG:NH2	1:B:568:ASP:OD1	2.30	0.64
2:C:77:VAL:HG12	2:C:109:PRO:HG2	1.78	0.64
1:F:1029:THR:HB	1:F:1033:MET:HE3	1.79	0.64
1:F:1129:PHE:HZ	1:F:1183:HIS:HB3	1.63	0.64
1:F:1618:LEU:HD22	1:F:1621:ARG:HH21	1.62	0.64
2:G:5:LYS:NZ	2:G:73:PRO:O	2.30	0.64
2:G:23:TYR:HB2	2:G:165:LEU:HD21	1.80	0.64
3:A:486:GLU:O	3:A:490:ARG:HG2	1.98	0.64
1:B:1166:GLU:O	1:B:1169:LYS:HG2	1.97	0.64
2:C:98:TYR:HE1	2:C:149:ILE:HD13	1.61	0.64
2:C:116:LYS:HD3	2:C:119:LEU:HD12	1.80	0.64
1:F:1241:ILE:HA	1:F:1244:LEU:HD12	1.80	0.64
1:F:1370:GLN:OE1	1:F:1377:ARG:NH1	2.31	0.64
3:A:38:CYS:HB3	3:A:43:LEU:HB2	1.78	0.64
1:B:225:TYR:OH	1:B:227:ASN:ND2	2.27	0.64
1:B:811:LYS:HD2	1:B:812:ILE:HG13	1.80	0.64
2:C:52:ASN:OD1	2:C:53:LEU:N	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:266:LEU:HG	3:A:271:LEU:HB2	1.78	0.64
3:A:401:GLU:O	3:A:405:ARG:NE	2.30	0.64
3:A:685:ASP:OD1	3:A:686:LEU:N	2.31	0.64
1:B:1313:MET:HE1	1:B:1496:PRO:HG3	1.79	0.64
1:F:110:LYS:HD3	1:F:113:LEU:HD12	1.80	0.64
1:F:1438:PRO:HB3	1:F:1454:TYR:CE2	2.33	0.64
3:A:501:GLN:OE1	3:A:505:LYS:NZ	2.30	0.64
1:B:166:ARG:NH2	1:B:169:ASN:OD1	2.31	0.63
1:B:1555:VAL:HG21	1:B:1622:LEU:HD22	1.80	0.63
1:F:1211:ILE:HD13	1:F:1220:ARG:HG2	1.79	0.63
2:G:129:LEU:HB3	2:G:134:LEU:O	1.98	0.63
1:B:132:LEU:O	3:A:703:ASN:ND2	2.30	0.63
2:C:124:ASP:O	2:C:127:GLU:HG2	1.98	0.63
1:B:11:LYS:HB2	1:B:70:THR:HA	1.80	0.63
1:B:19:TYR:HB2	1:B:59:PHE:HE1	1.63	0.63
1:B:468:VAL:N	1:B:498:SER:OG	2.31	0.63
1:B:853:VAL:O	1:B:857:LEU:HG	1.99	0.63
1:B:940:VAL:HG13	1:B:992:MET:HE1	1.79	0.63
1:B:1627:ARG:HA	1:B:1630:LYS:HB2	1.80	0.63
1:F:187:HIS:ND1	1:F:1006:TRP:HD1	1.96	0.63
1:F:879:LEU:CG	1:F:931:ARG:HH22	2.11	0.63
1:F:1284:GLN:HG2	1:F:1286:ASP:H	1.63	0.63
3:A:26:GLN:OE1	3:A:66:ARG:NH1	2.30	0.63
1:F:102:TRP:HA	1:F:105:LEU:HG	1.81	0.63
3:A:21:LEU:HD13	4:D:37:PHE:CZ	2.33	0.63
1:B:1028:LEU:HD12	1:B:1043:TRP:CZ2	2.34	0.63
1:B:1165:ASP:O	1:B:1168:TYR:HB3	1.99	0.63
1:F:1506:GLN:NE2	1:F:1507:ILE:O	2.31	0.63
1:B:153:ASP:HB2	1:B:194:ILE:HD11	1.79	0.63
1:B:1274:SER:HB2	1:B:1293:GLN:HE21	1.64	0.63
1:F:93:SER:HB2	1:F:96:ARG:NH1	2.14	0.63
1:F:226:VAL:HB	1:F:279:ALA:HB3	1.80	0.63
1:F:1061:LEU:HA	1:F:1064:PHE:CZ	2.34	0.63
1:F:1301:TYR:CE2	1:F:1320:LEU:HD12	2.31	0.63
1:F:233:CYS:SG	1:F:234:ASN:N	2.71	0.63
2:G:174:ARG:HA	2:G:177:LEU:HB2	1.80	0.63
3:A:562:PHE:N	3:A:575:TRP:O	2.32	0.63
1:B:72:GLU:OE1	1:B:75:GLY:N	2.28	0.63
1:B:707:ILE:O	1:B:711:HIS:NE2	2.32	0.63
4:D:29:PRO:HB3	4:D:33:ILE:HD11	1.79	0.63
1:B:855:GLN:OE1	1:B:855:GLN:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1181:ARG:NH1	1:B:1191:GLU:OE2	2.32	0.63
1:B:1628:GLU:O	1:B:1632:LYS:HG2	1.98	0.63
1:F:761:LYS:HE3	1:F:765:ARG:NE	2.14	0.63
1:F:1002:TYR:HB3	1:F:1006:TRP:HE3	1.64	0.63
3:E:578:ARG:NH2	3:E:598:GLU:OE1	2.32	0.63
3:A:205:LEU:HB3	3:A:223:ILE:HD11	1.79	0.63
1:B:73:ASP:O	1:B:79:THR:N	2.32	0.62
1:B:945:ARG:HE	1:B:946:GLN:H	1.47	0.62
1:F:95:LEU:HA	1:F:98:TRP:HD1	1.63	0.62
1:F:761:LYS:HE3	1:F:765:ARG:HE	1.63	0.62
1:F:930:GLU:HG2	1:F:972:TYR:HB3	1.80	0.62
1:F:1478:GLU:HB2	1:F:1482:MET:HE3	1.81	0.62
3:E:529:GLN:HG3	3:E:534:LEU:HD11	1.80	0.62
3:A:13:GLU:N	3:A:75:LEU:O	2.25	0.62
3:A:268:GLN:HG3	3:A:269:LYS:HD2	1.80	0.62
1:B:1233:GLU:O	1:B:1235:LYS:NZ	2.31	0.62
1:B:1533:VAL:HG23	1:B:1606:ILE:HG13	1.81	0.62
2:C:65:ASP:HA	2:C:68:ARG:HE	1.63	0.62
1:F:460:LYS:HD2	1:F:464:LYS:HG2	1.82	0.62
1:B:11:LYS:HG3	1:B:70:THR:HG23	1.80	0.62
1:B:263:GLY:HA2	1:B:269:LYS:HG3	1.82	0.62
1:B:493:ILE:HD11	1:B:496:TYR:HD1	1.63	0.62
1:B:519:ILE:HG21	1:B:630:LYS:HB3	1.81	0.62
1:B:909:ILE:HG13	1:B:910:LEU:N	2.15	0.62
1:B:1060:GLN:OE1	1:B:1060:GLN:N	2.32	0.62
2:C:93:VAL:HA	2:C:97:TRP:HB2	1.81	0.62
3:A:409:HIS:HA	3:A:473:THR:HA	1.81	0.62
1:B:16:ILE:HG21	3:A:707:PRO:HG2	1.81	0.62
1:B:92:THR:HA	1:B:95:LEU:HD12	1.80	0.62
1:B:719:TYR:HD1	1:B:723:HIS:HB2	1.63	0.62
1:F:166:ARG:HH21	1:F:169:ASN:HD21	1.48	0.62
1:F:855:GLN:OE1	1:F:855:GLN:N	2.29	0.62
3:E:685:ASP:OD1	3:E:686:LEU:N	2.33	0.62
1:B:330:THR:HG22	1:B:334:HIS:CE1	2.35	0.62
1:B:579:MET:HA	1:B:585:TYR:HB3	1.81	0.62
2:C:59:ALA:O	2:C:68:ARG:NH2	2.32	0.62
1:F:1091:TRP:CZ2	1:F:1098:LYS:HG2	2.35	0.62
3:A:466:THR:O	3:A:470:MET:N	2.33	0.62
4:D:17:THR:HG21	4:D:33:ILE:HG21	1.80	0.62
1:F:5:ILE:HB	1:F:40:MET:HB3	1.82	0.62
1:F:306:MET:SD	1:F:320:ARG:NH2	2.73	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:929:MET:SD	1:F:968:HIS:HB3	2.40	0.62
1:F:1367:TYR:N	1:F:1379:LYS:O	2.33	0.62
1:B:651:LYS:HB3	1:B:689:TYR:CE1	2.34	0.62
2:C:14:VAL:HG13	2:C:116:LYS:NZ	2.15	0.62
2:C:111:ILE:HG12	2:C:153:LYS:HB3	1.82	0.62
1:F:1388:TYR:HB2	2:G:45:MET:HE3	1.81	0.62
3:A:211:ASN:HB2	3:A:215:LEU:HD12	1.82	0.62
3:A:548:ILE:O	3:A:552:ARG:HG2	2.00	0.62
1:B:463:PRO:HD2	1:B:503:GLN:HB3	1.82	0.62
1:B:1216:SER:OG	1:B:1401:GLN:NE2	2.33	0.62
1:F:1149:ASN:OD1	1:F:1236:ARG:NH2	2.33	0.62
1:F:1543:SER:OG	1:F:1545:HIS:ND1	2.25	0.62
1:B:759:ALA:O	1:B:763:LEU:HG	2.00	0.62
1:B:816:ALA:O	1:B:820:LEU:HG	2.00	0.62
1:B:1536:HIS:CD2	1:B:1542:LEU:HD13	2.34	0.62
1:F:876:GLU:OE1	1:F:876:GLU:N	2.30	0.62
1:F:913:LEU:HD22	1:F:925:ILE:HG22	1.80	0.62
1:F:972:TYR:HA	1:F:975:THR:HB	1.82	0.62
2:G:17:THR:O	2:G:21:ILE:HG22	2.00	0.62
3:A:524:ASN:OD1	3:A:525:GLN:NE2	2.32	0.62
1:B:1305:ILE:HD11	1:B:1320:LEU:HB2	1.82	0.61
1:F:964:MET:HE1	1:F:969:TYR:CD2	2.35	0.61
1:F:1196:LEU:O	1:F:1200:LEU:HG	2.00	0.61
3:A:225:ILE:HG21	3:A:265:ILE:HG21	1.80	0.61
3:A:320:GLN:HA	3:A:323:ILE:HG22	1.81	0.61
1:B:1146:MET:HA	1:B:1149:ASN:HD22	1.64	0.61
1:F:1032:PHE:HA	1:F:1036:ALA:HB3	1.81	0.61
1:F:1115:THR:O	1:F:1121:ARG:NH2	2.33	0.61
3:E:607:LYS:HG3	3:E:609:PRO:HD3	1.82	0.61
1:B:1133:GLN:OE1	1:B:1137:ASN:ND2	2.31	0.61
1:F:166:ARG:HB2	1:F:174:ASP:H	1.65	0.61
1:F:1381:PHE:HA	1:F:1503:GLU:HA	1.82	0.61
1:B:101:ILE:HG21	1:B:159:LEU:HD13	1.82	0.61
1:B:486:PRO:HA	1:B:513:VAL:HG12	1.81	0.61
1:B:527:ILE:N	1:B:552:VAL:O	2.30	0.61
1:B:1573:GLU:O	1:B:1577:GLN:NE2	2.33	0.61
1:B:1607:HIS:O	1:B:1611:LEU:N	2.33	0.61
2:G:69:PRO:HA	2:G:72:TYR:CD2	2.35	0.61
2:G:164:GLY:O	2:G:168:VAL:N	2.30	0.61
3:A:256:ASP:HA	3:A:259:ARG:HB2	1.82	0.61
3:A:564:LYS:HE3	3:A:590:ASP:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:707:ILE:HA	1:B:710:GLN:CD	2.25	0.61
1:B:1467:PRO:HG3	2:C:33:ILE:HD13	1.83	0.61
1:B:1495:PHE:HE1	1:B:1502:PHE:HD2	1.47	0.61
1:F:773:LEU:HA	1:F:776:ARG:HG2	1.82	0.61
1:F:1487:THR:HA	1:F:1509:THR:HA	1.81	0.61
3:A:420:LEU:HD23	3:A:481:MET:HE1	1.83	0.61
1:B:1367:TYR:O	1:B:1378:ASN:N	2.31	0.61
2:C:129:LEU:HB3	2:C:134:LEU:O	2.00	0.61
1:F:30:GLN:HB2	3:E:697:ARG:HH21	1.65	0.61
1:F:643:TRP:HZ3	1:F:683:MET:HE1	1.65	0.61
3:A:270:GLN:HG2	3:A:273:SER:HB3	1.81	0.61
3:A:644:ILE:H	3:A:652:LEU:HB2	1.64	0.61
4:D:171:GLU:HA	4:D:174:ARG:HG2	1.82	0.61
1:B:98:TRP:O	1:B:101:ILE:HG22	1.99	0.61
1:F:1131:MET:O	1:F:1135:GLU:HG3	2.00	0.61
1:B:882:LEU:HA	1:B:885:GLN:HE21	1.65	0.61
1:B:1439:PRO:HA	1:B:1442:LYS:NZ	2.15	0.61
1:B:1590:LYS:HB3	1:B:1639:VAL:HG12	1.81	0.61
1:F:817:LEU:HD22	1:F:856:LYS:HD3	1.82	0.61
3:A:129:LEU:O	3:A:133:VAL:HG22	2.01	0.61
1:B:102:TRP:HA	1:B:105:LEU:HG	1.82	0.61
1:B:501:TYR:CG	1:B:507:PRO:HB3	2.35	0.61
1:B:1156:ASP:OD1	1:B:1243:TYR:OH	2.18	0.61
1:B:1277:PRO:HG3	1:B:1292:THR:HA	1.83	0.61
2:C:84:LEU:HD11	2:C:156:GLU:HG2	1.82	0.61
1:F:1390:ARG:HH11	2:G:44:VAL:HG21	1.66	0.61
1:F:1466:ARG:NH1	2:G:31:GLU:OE1	2.34	0.61
2:G:146:ALA:O	2:G:150:GLY:N	2.33	0.61
3:E:670:ASN:O	3:E:674:GLY:N	2.34	0.61
4:D:159:ALA:N	6:D:202:GTP:O6	2.34	0.61
1:F:1196:LEU:O	1:F:1199:SER:OG	2.15	0.61
3:A:719:ASN:ND2	3:A:721:ASP:OD2	2.34	0.61
1:B:241:LEU:HB2	1:B:260:ILE:HB	1.83	0.60
1:B:569:LEU:O	1:B:620:PHE:N	2.33	0.60
1:B:1195:LEU:O	1:B:1198:SER:OG	2.19	0.60
1:F:739:PHE:O	1:F:749:LYS:NZ	2.33	0.60
1:F:1626:PHE:HD2	1:F:1627:ARG:HD3	1.66	0.60
3:A:237:GLN:O	3:A:241:THR:HG23	2.01	0.60
1:F:147:LYS:O	1:F:151:LYS:HG2	2.02	0.60
1:F:330:THR:HA	1:F:333:ILE:HG12	1.81	0.60
1:F:638:LEU:O	1:F:642:ASN:ND2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1536:HIS:O	1:F:1540:ARG:NH2	2.33	0.60
3:A:544:ILE:O	3:A:548:ILE:HG12	2.00	0.60
4:D:14:VAL:O	4:D:116:LYS:NZ	2.33	0.60
1:B:23:GLN:HG2	1:B:58:ILE:HB	1.83	0.60
1:B:246:TYR:CZ	1:B:383:LEU:HD21	2.35	0.60
1:B:247:ASP:HB2	1:B:254:ILE:HD11	1.82	0.60
1:B:536:SER:OG	1:B:537:GLN:OE1	2.16	0.60
1:B:1216:SER:OG	1:B:1219:ASN:OD1	2.18	0.60
1:B:1478:GLU:N	1:B:1478:GLU:OE2	2.32	0.60
1:B:1630:LYS:O	1:B:1634:GLU:HG2	2.01	0.60
1:F:44:TRP:CZ2	1:F:60:PRO:HG3	2.37	0.60
1:F:761:LYS:NZ	1:F:825:ASN:HD21	1.98	0.60
1:F:769:GLN:OE1	1:F:776:ARG:NH2	2.34	0.60
1:F:1164:GLY:HA3	1:F:1168:TYR:HD1	1.64	0.60
3:A:451:SER:HA	3:A:454:GLU:HG3	1.83	0.60
1:B:471:SER:HB2	1:B:479:LEU:HD13	1.83	0.60
1:B:528:ARG:HA	1:B:551:PHE:HA	1.83	0.60
1:B:1391:ARG:NH2	2:C:28:PHE:HA	2.16	0.60
1:F:1111:GLU:O	1:F:1163:ARG:NH2	2.35	0.60
1:B:751:GLU:OE1	1:B:751:GLU:N	2.21	0.60
1:B:806:LEU:HD12	1:B:813:LYS:HD3	1.84	0.60
1:B:1557:PRO:HB2	1:B:1561:GLY:HA2	1.84	0.60
1:F:302:ARG:HG2	1:F:322:PHE:HB2	1.82	0.60
1:F:831:PHE:HE2	1:F:835:GLU:HB3	1.65	0.60
1:F:1512:ILE:HG23	1:F:1516:GLU:HB2	1.84	0.60
3:A:280:ILE:HG21	3:A:443:PRO:HB3	1.84	0.60
1:B:761:LYS:HG3	1:B:765:ARG:HE	1.65	0.60
1:B:1468:PHE:HB3	1:B:1483:TRP:O	2.02	0.60
1:F:662:GLY:HA2	1:F:665:ILE:HD12	1.83	0.60
1:F:938:ARG:HA	1:F:941:ILE:HD12	1.83	0.60
1:F:1436:SER:HB3	1:F:1454:TYR:HB3	1.82	0.60
2:G:87:PRO:HG2	2:G:135:THR:H	1.67	0.60
3:A:387:PHE:CE1	3:A:457:CYS:HB3	2.36	0.60
1:B:572:TYR:HB2	1:B:579:MET:HE1	1.83	0.60
1:B:1463:ARG:HA	1:B:1487:THR:O	2.02	0.60
1:F:95:LEU:HD23	1:F:98:TRP:CD1	2.34	0.60
1:F:140:GLU:OE1	1:F:140:GLU:N	2.35	0.60
1:F:166:ARG:HB3	1:F:171:ASN:HA	1.84	0.60
3:A:160:THR:HG22	3:A:200:ARG:HD2	1.84	0.60
3:A:692:MET:O	3:A:696:LEU:HG	2.00	0.60
1:B:498:SER:HB2	1:B:509:TRP:NE1	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:772:VAL:HA	1:B:775:LEU:HD12	1.83	0.60
1:B:1601:THR:HB	1:B:1605:ARG:HH21	1.66	0.60
2:C:69:PRO:HA	2:C:72:TYR:CG	2.37	0.60
1:F:127:TRP:HD1	1:F:130:GLN:NE2	1.99	0.60
1:F:449:THR:HB	1:F:623:ALA:HB3	1.81	0.60
1:F:594:GLU:HA	1:F:597:GLU:HG2	1.84	0.60
3:A:133:VAL:HB	3:A:155:LEU:HD13	1.84	0.60
3:A:327:LEU:HD21	3:A:385:LEU:HD23	1.84	0.60
3:A:587:HIS:ND1	3:A:606:ASP:OD1	2.34	0.60
1:B:591:THR:OG1	1:B:593:MET:SD	2.59	0.60
1:F:93:SER:HB2	1:F:96:ARG:HH11	1.66	0.60
1:F:1545:HIS:CD2	2:G:5:LYS:HE3	2.36	0.60
2:G:82:PHE:O	2:G:115:THR:OG1	2.14	0.60
3:E:692:MET:O	3:E:696:LEU:HG	2.00	0.60
3:A:288:ASN:HB2	3:A:439:ASN:HD21	1.66	0.60
3:A:309:MET:HB3	3:A:375:PRO:HB3	1.83	0.60
1:B:485:HIS:HB2	1:B:514:LYS:HB3	1.84	0.60
1:B:900:GLU:O	1:B:904:GLN:NE2	2.34	0.60
1:F:741:VAL:HA	1:F:753:LEU:HD11	1.83	0.60
1:B:256:GLU:HG3	1:B:488:ALA:HB2	1.84	0.59
1:B:757:LEU:HD12	1:B:816:ALA:HA	1.83	0.59
1:B:761:LYS:HD3	1:B:822:SER:HB2	1.84	0.59
1:B:993:PHE:O	1:B:997:ILE:HG12	2.01	0.59
1:F:764:PHE:CD1	1:F:826:ASP:HB2	2.36	0.59
1:F:1059:LEU:HD11	1:F:1117:GLU:HA	1.83	0.59
1:F:1164:GLY:HA3	1:F:1168:TYR:CD1	2.36	0.59
3:A:185:ALA:HA	3:A:188:VAL:HG12	1.84	0.59
3:A:555:ARG:O	3:A:559:GLY:N	2.32	0.59
1:B:5:ILE:H	1:B:40:MET:H	1.50	0.59
1:B:128:ARG:NH2	3:A:699:LEU:O	2.32	0.59
1:B:965:ASP:HB3	1:B:968:HIS:CD2	2.36	0.59
1:B:994:LYS:HB2	1:B:1049:LEU:HD21	1.84	0.59
1:F:44:TRP:CE3	1:F:58:ILE:HG22	2.37	0.59
1:F:1111:GLU:OE1	1:F:1111:GLU:N	2.28	0.59
2:G:93:VAL:HG13	2:G:94:ARG:HD3	1.84	0.59
1:B:422:ASP:OD1	1:B:425:THR:OG1	2.15	0.59
1:B:659:GLU:N	1:B:659:GLU:OE2	2.35	0.59
1:B:1470:LYS:N	1:B:1481:THR:HB	2.17	0.59
1:F:62:THR:HG21	3:E:712:PRO:HG2	1.85	0.59
1:F:226:VAL:N	1:F:279:ALA:O	2.34	0.59
1:F:380:THR:HG22	1:F:510:TYR:CZ	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1588:LEU:O	1:F:1592:LEU:HG	2.03	0.59
1:B:1611:LEU:HD12	1:B:1615:LEU:HB3	1.83	0.59
1:F:638:LEU:HD13	1:F:641:LEU:HD12	1.83	0.59
3:A:54:ALA:HB3	3:A:74:ILE:HB	1.85	0.59
4:D:45:ALA:HA	4:D:50:THR:HA	1.82	0.59
1:B:525:CYS:HB2	1:B:554:LEU:HD12	1.84	0.59
1:B:929:MET:HG3	1:B:933:LEU:HD11	1.84	0.59
1:F:37:ILE:HD13	1:F:45:TYR:HB3	1.83	0.59
1:F:106:TYR:O	3:E:555:ARG:NH2	2.35	0.59
1:F:486:PRO:HA	1:F:513:VAL:HG12	1.84	0.59
3:E:575:TRP:HZ3	3:E:588:TYR:HB2	1.65	0.59
1:B:832:ASP:OD2	1:B:835:GLU:N	2.34	0.59
1:B:1015:ARG:HD3	1:B:1076:TYR:HD1	1.68	0.59
1:F:1098:LYS:O	1:F:1102:ILE:N	2.33	0.59
1:F:1516:GLU:HA	1:F:1519:ILE:HD12	1.85	0.59
3:A:644:ILE:HB	3:A:652:LEU:HD12	1.85	0.59
1:B:187:HIS:ND1	1:B:1006:TRP:HD1	2.01	0.59
1:B:631:LEU:O	1:B:667:LYS:NZ	2.22	0.59
1:B:1264:LEU:HD21	1:B:1300:LEU:HD22	1.85	0.59
1:F:44:TRP:HZ2	3:E:713:ILE:HG23	1.68	0.59
3:A:408:LYS:HG3	3:A:474:SER:H	1.68	0.59
4:D:37:PHE:HA	4:D:57:ASP:O	2.03	0.59
1:B:237:GLU:HB2	1:B:308:LEU:HD21	1.85	0.59
1:B:706:ASP:HB3	1:B:709:PHE:HD2	1.67	0.59
1:B:941:ILE:O	1:B:944:ASN:HB2	2.03	0.59
1:B:972:TYR:C	1:B:975:THR:H	2.11	0.59
1:F:1197:VAL:O	1:F:1201:LEU:HG	2.03	0.59
3:A:591:LEU:HD21	3:A:604:LEU:H	1.67	0.59
1:B:73:ASP:HB2	1:B:86:PRO:HD3	1.85	0.59
1:B:450:LEU:HD23	1:B:622:ILE:HG12	1.84	0.59
1:B:1043:TRP:HA	1:B:1046:TYR:HB3	1.85	0.59
1:B:1470:LYS:HB3	1:B:1483:TRP:CD1	2.38	0.59
3:A:121:ILE:HG23	3:A:171:VAL:HB	1.85	0.59
3:A:419:GLU:HA	3:A:422:LYS:HG2	1.85	0.59
1:B:102:TRP:HB2	1:B:114:PHE:CE1	2.38	0.59
1:B:287:MET:HA	1:B:290:ILE:HG12	1.84	0.59
1:B:1284:GLN:HE22	1:B:1291:TYR:HE2	1.51	0.59
2:C:129:LEU:HA	2:C:132:LYS:HG2	1.85	0.59
1:F:826:ASP:HA	1:F:829:LEU:HD13	1.85	0.59
1:F:1344:LYS:O	1:F:1347:SER:OG	2.18	0.59
3:A:104:LEU:HD22	3:A:132:MET:HE1	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:66:ARG:NH1	4:D:67:LEU:HB2	2.18	0.59
4:D:117:LYS:HB3	4:D:156:GLU:HB3	1.85	0.59
1:B:119:GLN:HE21	1:B:122:TYR:HE2	1.50	0.58
1:B:569:LEU:HD12	1:B:620:PHE:HD2	1.68	0.58
1:B:934:ARG:NH1	1:B:938:ARG:HB2	2.18	0.58
1:F:1:MET:HG2	3:E:716:GLU:HB3	1.84	0.58
1:F:863:ILE:O	1:F:867:THR:OG1	2.20	0.58
1:B:7:THR:HG22	1:B:9:ARG:H	1.68	0.58
1:B:79:THR:HA	1:B:85:LEU:HD22	1.85	0.58
1:B:654:LEU:HA	1:B:657:LEU:HG	1.84	0.58
1:B:1357:ARG:HH21	1:B:1453:TYR:HB2	1.67	0.58
1:F:1043:TRP:NE1	1:F:1090:MET:HE2	2.18	0.58
1:F:1177:LEU:O	1:F:1181:ARG:HD3	2.03	0.58
2:G:102:ARG:HD3	2:G:149:ILE:HD11	1.85	0.58
1:B:65:HIS:ND1	1:B:65:HIS:O	2.37	0.58
1:B:926:GLN:O	1:B:930:GLU:HG3	2.04	0.58
1:B:966:ASP:HA	1:B:969:TYR:CD1	2.38	0.58
2:C:87:PRO:HA	2:C:90:PHE:CD2	2.38	0.58
1:F:127:TRP:O	1:F:131:ILE:HG12	2.04	0.58
1:F:138:LYS:HA	1:F:141:LEU:HD13	1.84	0.58
1:F:1289:TYR:HD2	1:F:1290:VAL:HG22	1.68	0.58
2:G:68:ARG:HG2	2:G:69:PRO:HD3	1.84	0.58
3:A:698:LEU:O	3:A:702:GLU:HG2	2.03	0.58
1:B:556:ASN:N	1:B:560:THR:O	2.35	0.58
1:B:713:ASN:HA	1:B:716:LEU:HD12	1.84	0.58
1:B:871:GLN:NE2	1:B:875:ARG:HH11	2.00	0.58
1:B:958:ILE:HG13	1:B:959:ALA:N	2.18	0.58
1:B:1094:LEU:HB3	1:B:1098:LYS:HE3	1.83	0.58
1:B:1467:PRO:HG2	2:C:31:GLU:O	2.03	0.58
1:F:86:PRO:HA	1:F:89:GLN:HE21	1.69	0.58
1:F:1102:ILE:HD11	1:F:1134:CYS:HB2	1.85	0.58
3:A:144:GLN:HA	3:A:147:MET:HB3	1.85	0.58
3:A:469:GLU:O	3:A:470:MET:HE2	2.04	0.58
1:B:654:LEU:HD13	1:B:692:LEU:HB2	1.84	0.58
1:B:772:VAL:HG23	1:B:776:ARG:HH22	1.67	0.58
1:B:1452:ASN:OD1	1:B:1453:TYR:N	2.35	0.58
1:F:1010:ASN:OD1	1:F:1013:GLN:NE2	2.36	0.58
1:B:10:GLN:NE2	1:B:38:LEU:O	2.33	0.58
1:B:553:LYS:HD2	1:B:586:LEU:HD22	1.86	0.58
1:B:652:HIS:O	1:B:656:LYS:HG2	2.03	0.58
1:B:1219:ASN:OD1	1:B:1401:GLN:NE2	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1407:LYS:HG3	1:B:1426:MET:SD	2.44	0.58
3:A:261:GLU:O	3:A:265:ILE:HG12	2.02	0.58
1:B:4:TRP:O	3:A:724:TYR:N	2.34	0.58
1:B:819:TYR:O	1:B:822:SER:OG	2.18	0.58
1:B:976:PHE:HB2	1:B:982:ILE:HD12	1.86	0.58
1:B:1344:LYS:O	1:B:1347:SER:OG	2.14	0.58
2:C:9:VAL:HG22	2:C:78:PHE:CZ	2.37	0.58
1:F:101:ILE:O	1:F:105:LEU:HG	2.03	0.58
1:F:1530:SER:O	1:F:1534:GLN:HG2	2.04	0.58
1:B:965:ASP:HA	1:B:1019:ARG:NH2	2.18	0.58
1:B:1207:TYR:O	1:B:1211:ILE:HG12	2.04	0.58
2:C:128:LYS:HA	2:C:131:GLU:HG2	1.85	0.58
2:C:138:THR:H	2:C:141:GLN:NE2	2.02	0.58
2:G:117:LEU:HD22	2:G:156:GLU:HG2	1.85	0.58
3:A:9:LYS:N	3:A:71:ASN:OD1	2.37	0.58
3:A:260:GLN:HG3	3:A:304:LEU:HD12	1.85	0.58
3:A:489:MET:HB3	3:A:490:ARG:HH21	1.68	0.58
3:A:588:TYR:N	3:A:603:SER:OG	2.36	0.58
1:B:62:THR:HG22	3:A:714:PRO:HD3	1.86	0.58
1:F:680:MET:HE1	1:F:690:ASP:HA	1.86	0.58
1:F:34:THR:HB	1:F:50:LEU:HB2	1.86	0.58
1:F:302:ARG:H	1:F:322:PHE:HB2	1.69	0.58
1:F:789:ASN:HB3	1:F:793:GLN:HE22	1.69	0.58
1:F:1565:ASN:O	1:F:1568:LYS:HG3	2.04	0.58
2:G:128:LYS:HA	2:G:131:GLU:HG2	1.85	0.58
1:B:18:ASN:HD21	3:A:536:LEU:HA	1.69	0.57
1:B:41:TYR:HD2	1:B:44:TRP:HB2	1.68	0.57
1:B:80:VAL:HG22	1:B:85:LEU:HD11	1.84	0.57
1:B:743:ASN:HB2	1:B:749:LYS:HD2	1.85	0.57
1:B:1217:LYS:HG3	1:B:1220:ARG:HH21	1.68	0.57
1:F:156:ASN:O	1:F:160:GLY:N	2.37	0.57
2:G:7:VAL:HG22	2:G:56:TRP:CG	2.39	0.57
3:A:445:PHE:HA	3:A:451:SER:OG	2.04	0.57
1:B:332:ILE:HG12	1:B:337:VAL:HB	1.86	0.57
1:B:1238:ASP:OD1	1:B:1239:ILE:N	2.37	0.57
2:C:146:ALA:O	2:C:150:GLY:N	2.37	0.57
1:F:376:ASN:HD22	1:F:504:VAL:HG22	1.69	0.57
1:F:845:GLN:HE22	1:F:881:LEU:HD12	1.68	0.57
1:F:914:ASP:HB2	1:F:963:GLN:CD	2.29	0.57
1:F:1372:PHE:HB2	1:F:1377:ARG:HA	1.86	0.57
1:F:1391:ARG:NH2	2:G:27:ALA:O	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1466:ARG:O	1:F:1484:ILE:HA	2.05	0.57
1:B:46:ARG:HA	1:B:57:GLY:O	2.05	0.57
1:B:224:LEU:HA	1:B:405:LEU:HA	1.86	0.57
1:B:257:ASN:O	1:B:488:ALA:N	2.35	0.57
1:B:538:GLU:OE1	1:B:542:LYS:NZ	2.33	0.57
1:B:1631:GLU:HA	1:B:1634:GLU:HG2	1.87	0.57
1:F:411:THR:O	1:F:415:LYS:HB2	2.05	0.57
1:F:1206:ASP:HA	1:F:1209:THR:HG22	1.85	0.57
3:A:9:LYS:HD3	4:D:38:ASP:OD1	2.05	0.57
3:A:302:PHE:CE1	3:A:430:VAL:HG22	2.39	0.57
3:A:474:SER:HA	3:A:477:PHE:HB2	1.85	0.57
1:B:228:PHE:CD1	1:B:277:LEU:HD13	2.39	0.57
1:B:320:ARG:CZ	1:B:500:VAL:HB	2.34	0.57
1:B:400:TRP:HZ2	4:D:127:ARG:HB2	1.68	0.57
1:B:744:ALA:HA	1:B:753:LEU:HD11	1.87	0.57
1:F:60:PRO:HG2	1:F:63:TYR:CD2	2.39	0.57
1:F:1461:GLN:OE1	1:F:1490:THR:HG22	2.04	0.57
3:A:379:LEU:O	3:A:383:ASN:ND2	2.37	0.57
3:A:485:LYS:HG2	3:A:489:MET:HE2	1.86	0.57
3:A:623:PRO:O	3:A:627:GLU:N	2.36	0.57
3:A:687:ASP:OD1	3:A:688:THR:N	2.37	0.57
1:B:19:TYR:OH	1:B:44:TRP:HH2	1.84	0.57
1:B:934:ARG:HH12	1:B:938:ARG:HB2	1.69	0.57
1:B:1568:LYS:O	1:B:1572:THR:OG1	2.21	0.57
1:F:1623:SER:HB3	1:F:1627:ARG:NH2	2.18	0.57
1:F:1628:GLU:O	1:F:1632:LYS:HG2	2.04	0.57
4:D:8:VAL:HG21	4:D:20:LEU:HD21	1.87	0.57
1:B:106:TYR:HE2	3:A:550:GLN:HE22	1.52	0.57
1:B:1040:LEU:HA	1:B:1043:TRP:CZ3	2.40	0.57
1:B:1217:LYS:H	1:B:1217:LYS:HD3	1.70	0.57
1:B:1582:ASP:HA	1:B:1584:GLU:HG2	1.87	0.57
2:C:41:SER:HA	2:C:54:GLY:HA2	1.86	0.57
1:F:417:PHE:HB3	1:F:420:LEU:HD12	1.85	0.57
1:F:859:CYS:O	1:F:863:ILE:HD12	2.05	0.57
1:B:879:LEU:HD21	1:B:931:ARG:HH22	1.69	0.57
1:B:1588:LEU:O	1:B:1592:LEU:HG	2.04	0.57
2:C:93:VAL:HG13	2:C:94:ARG:HD2	1.87	0.57
1:F:7:THR:HG22	1:F:9:ARG:H	1.70	0.57
1:F:1082:GLU:O	1:F:1086:ARG:HG2	2.04	0.57
1:B:181:ILE:HG22	1:B:185:LYS:NZ	2.19	0.57
1:B:701:ILE:HA	1:B:704:ILE:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:994:LYS:N	1:B:1049:LEU:HD11	2.20	0.57
1:B:1079:MET:N	1:B:1079:MET:SD	2.78	0.57
1:B:1412:THR:HG21	1:B:1466:ARG:HD3	1.86	0.57
1:F:1362:TYR:CE1	1:F:1384:ARG:HG3	2.40	0.57
2:G:137:ILE:HG23	2:G:141:GLN:HE21	1.69	0.57
3:A:358:LYS:HG2	3:A:406:GLU:HG3	1.86	0.57
1:B:581:ASP:HB3	1:B:584:PHE:HB3	1.85	0.57
1:B:1062:GLU:O	1:B:1069:ARG:HD3	2.05	0.57
1:B:1102:ILE:O	1:B:1106:VAL:HG23	2.05	0.57
1:F:18:ASN:HD22	1:F:28:SER:HB3	1.70	0.57
1:F:806:LEU:HD22	1:F:851:GLN:HB3	1.86	0.57
3:E:578:ARG:HB3	3:E:587:HIS:HB2	1.87	0.57
4:D:154:TYR:OH	4:D:156:GLU:OE2	2.18	0.57
1:B:1328:TYR:HB3	1:B:1338:LEU:HD22	1.87	0.57
1:F:113:LEU:O	1:F:116:GLN:HG2	2.05	0.57
1:F:220:HIS:ND1	1:F:286:SER:HB3	2.20	0.57
1:F:1392:GLU:HA	1:F:1395:SER:HB3	1.86	0.57
4:D:6:CYS:HB3	4:D:55:LEU:HD23	1.87	0.57
1:B:203:SER:O	1:B:207:ASN:N	2.29	0.56
1:B:570:VAL:HG11	1:B:615:SER:OG	2.04	0.56
1:F:59:PHE:CD2	1:F:64:ILE:HG12	2.38	0.56
1:F:1174:LYS:O	1:F:1178:GLU:HG2	2.04	0.56
1:F:1563:PHE:O	1:F:1567:GLU:HG2	2.05	0.56
3:A:613:ILE:HD13	3:A:646:TYR:HB3	1.86	0.56
1:B:224:LEU:HD23	1:B:281:PHE:HD2	1.70	0.56
1:B:340:GLU:HG3	1:B:404:LYS:HE2	1.87	0.56
1:B:797:ALA:O	1:B:801:LEU:HG	2.06	0.56
1:F:62:THR:HG22	3:E:714:PRO:HD3	1.86	0.56
1:F:713:ASN:O	1:F:762:TYR:OH	2.22	0.56
1:F:1181:ARG:NH1	1:F:1191:GLU:OE2	2.38	0.56
1:F:1322:LYS:HA	1:F:1345:ARG:HH22	1.69	0.56
3:E:576:TYR:HB2	3:E:598:GLU:HG2	1.86	0.56
1:B:187:HIS:HB3	1:B:1006:TRP:CD1	2.40	0.56
1:B:457:LYS:HG2	1:B:463:PRO:HG3	1.87	0.56
1:B:795:PHE:HE2	1:B:843:PHE:HB2	1.68	0.56
1:B:859:CYS:O	1:B:863:ILE:HD12	2.04	0.56
1:B:883:THR:HG21	1:B:931:ARG:HE	1.70	0.56
1:B:969:TYR:O	1:B:974:SER:N	2.38	0.56
1:B:984:ASP:O	1:B:987:MET:HG3	2.05	0.56
1:B:1363:PHE:CE1	1:B:1391:ARG:HA	2.40	0.56
1:B:1506:GLN:NE2	1:B:1507:ILE:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1524:LEU:HA	1:B:1527:GLU:CD	2.29	0.56
1:B:1618:LEU:O	1:B:1622:LEU:HG	2.05	0.56
1:F:4:TRP:HD1	3:E:722:PHE:HA	1.70	0.56
1:F:1522:MET:O	1:F:1526:ASN:ND2	2.38	0.56
2:G:9:VAL:HG22	2:G:78:PHE:CZ	2.38	0.56
3:E:661:GLU:HA	3:E:664:ILE:HD12	1.87	0.56
3:A:295:TYR:OH	3:A:432:GLU:OE2	2.13	0.56
3:A:320:GLN:O	3:A:324:ILE:HG12	2.05	0.56
3:A:376:PRO:HG2	3:A:380:ALA:HB2	1.87	0.56
3:A:467:TRP:O	3:A:471:ARG:N	2.38	0.56
3:A:486:GLU:HA	3:A:489:MET:HE3	1.86	0.56
1:B:99:ALA:HB1	1:B:103:ARG:HH12	1.70	0.56
1:B:1007:MET:HA	1:B:1010:ASN:HB3	1.88	0.56
1:F:46:ARG:HA	1:F:57:GLY:O	2.05	0.56
1:F:247:ASP:HB2	1:F:254:ILE:HD11	1.87	0.56
1:F:1217:LYS:HG2	1:F:1220:ARG:NH2	2.19	0.56
1:F:1483:TRP:NE1	1:F:1514:PRO:HD3	2.20	0.56
3:E:532:PRO:HA	3:E:535:GLU:CD	2.31	0.56
3:A:126:ILE:HD13	3:A:171:VAL:HG11	1.86	0.56
3:A:642:PHE:HE2	3:A:652:LEU:HB3	1.69	0.56
3:A:642:PHE:CZ	3:A:654:PHE:HB2	2.40	0.56
1:B:64:ILE:HG22	1:B:66:LEU:N	2.21	0.56
1:B:255:SER:HA	1:B:430:LYS:HA	1.85	0.56
1:B:632:THR:HG21	1:B:637:LEU:HD23	1.86	0.56
1:B:854:ARG:NE	1:B:900:GLU:OE2	2.36	0.56
1:B:1174:LYS:O	1:B:1178:GLU:HG2	2.06	0.56
2:C:47:ASP:OD2	2:C:174:ARG:NH1	2.37	0.56
1:F:74:LEU:HD13	1:F:83:GLY:H	1.69	0.56
1:F:761:LYS:HZ3	1:F:825:ASN:HD21	1.52	0.56
1:F:1486:ARG:O	1:F:1510:GLU:N	2.39	0.56
4:D:94:ARG:HG2	4:D:145:LEU:HD13	1.88	0.56
1:F:887:SER:HA	1:F:890:LEU:HB2	1.88	0.56
1:F:1062:GLU:O	1:F:1069:ARG:HD3	2.05	0.56
1:F:1617:PRO:HG3	2:G:70:LEU:HD22	1.86	0.56
3:E:637:VAL:O	3:E:641:ALA:N	2.36	0.56
3:A:224:THR:H	3:A:227:GLN:HE21	1.54	0.56
3:A:637:VAL:HG12	3:A:640:LEU:HD12	1.87	0.56
4:D:19:LEU:HD12	4:D:165:VAL:HG13	1.88	0.56
1:B:73:ASP:O	1:B:79:THR:HG23	2.06	0.56
1:B:281:PHE:HA	1:B:428:ALA:O	2.05	0.56
1:B:578:LYS:HG2	1:B:584:PHE:HE2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:16:ILE:HD13	3:E:711:PRO:HG2	1.87	0.56
1:F:99:ALA:HA	1:F:102:TRP:NE1	2.21	0.56
1:F:431:MET:HE2	1:F:512:THR:HG21	1.87	0.56
1:F:589:PRO:HG3	1:F:598:LYS:HD2	1.88	0.56
1:F:1391:ARG:HD2	1:F:1429:PHE:HA	1.87	0.56
1:F:1404:ASN:OD1	1:F:1424:GLN:HB2	2.06	0.56
1:F:1585:LYS:HA	1:F:1588:LEU:HD12	1.88	0.56
2:G:93:VAL:HA	2:G:97:TRP:CD1	2.40	0.56
3:E:541:GLN:HG3	3:E:545:LEU:HD23	1.87	0.56
1:B:166:ARG:HH22	1:B:168:ASP:HB2	1.71	0.56
1:B:243:MET:HB3	1:B:296:LEU:HD11	1.86	0.56
1:B:572:TYR:OH	1:B:595:MET:SD	2.54	0.56
2:C:83:SER:HA	2:C:115:THR:HB	1.86	0.56
1:F:1583:GLN:O	1:F:1586:VAL:HG12	2.06	0.56
2:G:93:VAL:HA	2:G:97:TRP:HD1	1.71	0.56
3:E:665:TRP:O	3:E:669:LEU:HG	2.05	0.56
3:A:532:PRO:HA	3:A:535:GLU:CD	2.31	0.56
1:B:59:PHE:CZ	1:B:63:TYR:HB3	2.40	0.56
1:B:472:VAL:HG13	1:B:527:ILE:HG13	1.86	0.56
1:B:1115:THR:O	1:B:1121:ARG:NH2	2.39	0.56
1:F:153:ASP:HA	1:F:156:ASN:ND2	2.20	0.56
1:F:166:ARG:HE	1:F:173:LEU:HD12	1.71	0.56
1:F:891:ASP:HB2	1:F:938:ARG:HH12	1.70	0.56
1:F:923:VAL:O	1:F:927:LEU:HG	2.06	0.56
1:F:964:MET:O	1:F:1019:ARG:NH1	2.39	0.56
1:F:1301:TYR:O	1:F:1305:ILE:HG12	2.05	0.56
1:F:1448:GLU:OE2	1:F:1448:GLU:N	2.29	0.56
3:E:708:ASP:OD1	3:E:709:ALA:N	2.38	0.56
1:B:1102:ILE:HG12	1:B:1131:MET:HB2	1.87	0.56
1:B:1316:LYS:HE3	1:B:1319:LYS:HD3	1.88	0.56
1:F:950:ILE:HA	1:F:953:PHE:HD1	1.71	0.56
1:F:970:SER:O	1:F:974:SER:OG	2.23	0.56
1:F:1275:ASP:OD2	1:F:1292:THR:OG1	2.24	0.56
3:E:620:LYS:HA	3:E:625:MET:HB3	1.88	0.56
3:A:52:GLN:HE21	3:A:76:ARG:HE	1.53	0.56
3:A:586:LEU:HB2	3:A:608:LEU:HB3	1.87	0.56
1:B:710:GLN:O	1:B:713:ASN:ND2	2.38	0.55
1:B:964:MET:O	1:B:1019:ARG:NH2	2.39	0.55
1:F:73:ASP:HB2	1:F:86:PRO:HD3	1.88	0.55
1:F:844:ILE:HG21	1:F:881:LEU:HD21	1.88	0.55
3:E:639:GLU:OE1	3:E:639:GLU:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:244:ILE:HA	3:A:247:ILE:HD12	1.88	0.55
3:A:309:MET:HE2	3:A:425:CYS:SG	2.46	0.55
3:A:309:MET:HE3	3:A:375:PRO:HB2	1.88	0.55
1:B:166:ARG:O	1:B:171:ASN:HA	2.06	0.55
1:B:651:LYS:HB3	1:B:689:TYR:HE1	1.70	0.55
1:B:1460:GLN:HB2	1:B:1494:THR:HG22	1.88	0.55
1:B:1607:HIS:NE2	1:B:1619:HIS:HB2	2.21	0.55
2:C:1:MET:HE3	2:C:2:GLN:H	1.71	0.55
1:F:105:LEU:HD13	1:F:110:LYS:NZ	2.21	0.55
1:F:714:PRO:O	1:F:718:THR:OG1	2.22	0.55
1:F:792:ARG:NE	1:F:835:GLU:OE1	2.36	0.55
1:F:879:LEU:HG	1:F:931:ARG:NH2	2.20	0.55
1:F:992:MET:O	1:F:996:LEU:HD23	2.06	0.55
2:G:169:PHE:HA	2:G:172:ALA:HB3	1.87	0.55
3:A:623:PRO:HA	3:A:626:LYS:HB2	1.89	0.55
1:B:11:LYS:HZ1	1:B:36:HIS:HB3	1.72	0.55
1:B:81:ILE:HD13	1:B:141:LEU:HD21	1.88	0.55
1:B:443:ARG:NH2	1:B:447:TYR:OH	2.39	0.55
1:B:569:LEU:HD11	1:B:622:ILE:HD12	1.87	0.55
1:B:1536:HIS:CE1	1:B:1610:LYS:HG2	2.42	0.55
1:F:1279:VAL:HG23	1:F:1282:LEU:HG	1.89	0.55
1:F:1378:ASN:ND2	1:F:1419:LYS:O	2.39	0.55
1:F:1612:THR:O	1:F:1616:LYS:N	2.39	0.55
3:A:26:GLN:HE22	3:A:69:ILE:HD12	1.71	0.55
1:F:875:ARG:HG2	1:F:924:HIS:CE1	2.41	0.55
1:F:958:ILE:HB	1:F:1016:VAL:HG21	1.89	0.55
1:F:1125:ILE:HD12	1:F:1172:LEU:HD23	1.88	0.55
1:F:1557:PRO:HB2	1:F:1560:MET:O	2.06	0.55
3:A:121:ILE:HD13	3:A:170:ILE:HB	1.89	0.55
3:A:533:ILE:HA	3:A:536:LEU:HD13	1.87	0.55
1:B:165:VAL:O	1:B:171:ASN:HA	2.06	0.55
1:B:247:ASP:O	1:B:251:SER:N	2.39	0.55
1:B:965:ASP:HB3	1:B:968:HIS:HD2	1.70	0.55
1:F:273:LYS:HA	1:F:276:ASN:HB3	1.89	0.55
1:F:1545:HIS:O	1:F:1548:SER:OG	2.21	0.55
2:G:96:LYS:HD2	2:G:100:GLU:HG2	1.88	0.55
4:D:116:LYS:N	4:D:157:CYS:O	2.38	0.55
1:B:37:ILE:HG23	1:B:46:ARG:C	2.31	0.55
1:B:1198:SER:O	1:B:1201:LEU:N	2.40	0.55
1:B:1514:PRO:HA	1:B:1517:ASN:HD22	1.71	0.55
1:F:120:MET:HA	1:F:120:MET:HE3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1469:ARG:NH1	1:F:1481:THR:OG1	2.40	0.55
3:E:565:LEU:HD21	3:E:653:ASN:HB3	1.87	0.55
3:A:361:PHE:HE1	3:A:415:ARG:HB2	1.72	0.55
4:D:22:CYS:O	4:D:162:GLN:NE2	2.40	0.55
1:B:122:TYR:HA	1:B:125:ILE:HG12	1.88	0.55
1:B:529:PHE:HB2	1:B:550:ALA:HB3	1.89	0.55
1:B:964:MET:SD	1:B:968:HIS:HB2	2.47	0.55
2:C:129:LEU:O	2:C:133:LYS:N	2.40	0.55
1:F:572:TYR:OH	1:F:589:PRO:O	2.21	0.55
1:F:634:ASN:OD1	1:F:637:LEU:N	2.28	0.55
1:F:1390:ARG:NH1	2:G:44:VAL:HG21	2.21	0.55
2:G:90:PHE:CE2	2:G:137:ILE:HB	2.36	0.55
3:A:88:LEU:HD13	3:A:107:LEU:HD13	1.89	0.55
3:A:334:ALA:HB3	3:A:400:LEU:HD11	1.88	0.55
4:D:9:VAL:N	4:D:79:VAL:O	2.39	0.55
1:B:60:PRO:HG2	1:B:63:TYR:CD2	2.42	0.55
2:C:61:GLN:HB3	2:C:64:TYR:HD1	1.71	0.55
2:C:96:LYS:C	2:C:99:PRO:HD2	2.32	0.55
1:F:6:PRO:HD3	3:E:724:TYR:HB2	1.89	0.55
1:F:241:LEU:HG	1:F:300:ILE:HG13	1.88	0.55
3:E:573:LYS:NZ	3:E:593:GLU:OE1	2.29	0.55
3:A:217:GLN:OE1	3:A:258:ARG:NH2	2.34	0.55
3:A:276:LEU:HD12	3:A:280:ILE:HB	1.88	0.55
1:B:224:LEU:HD12	1:B:404:LYS:O	2.06	0.55
1:B:232:VAL:N	1:B:398:GLY:O	2.32	0.55
1:B:1117:GLU:CD	1:B:1120:LEU:HG	2.32	0.55
1:B:1546:PRO:HA	1:B:1549:MET:HG2	1.87	0.55
1:F:1117:GLU:OE2	1:F:1120:LEU:N	2.40	0.55
1:F:1384:ARG:HD2	1:F:1495:PHE:HB3	1.89	0.55
1:B:526:HIS:CE1	1:B:585:TYR:HH	2.21	0.55
1:B:1065:SER:H	1:B:1068:LYS:HB3	1.72	0.55
1:F:569:LEU:HB2	1:F:620:PHE:HB3	1.88	0.55
1:F:1412:THR:HB	1:F:1413:PRO:HD3	1.89	0.55
1:F:1470:LYS:HD3	1:F:1483:TRP:CE2	2.42	0.55
2:G:94:ARG:HD2	2:G:145:MET:HG2	1.88	0.55
3:E:585:VAL:HG23	3:E:607:LYS:HA	1.88	0.55
3:E:586:LEU:HB2	3:E:608:LEU:HB3	1.87	0.55
1:B:133:SER:HB3	1:B:135:THR:HG23	1.88	0.54
1:B:229:LYS:HE3	1:B:343:GLN:HG2	1.88	0.54
1:B:319:ARG:NH1	1:B:497:LYS:O	2.41	0.54
1:B:646:ASN:ND2	1:B:653:ASN:HD21	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1353:ILE:HG21	1:F:1335:TYR:HB2	1.89	0.54
1:F:932:LEU:N	1:F:935:ARG:HH21	2.05	0.54
1:F:1158:GLU:OE1	1:F:1158:GLU:N	2.40	0.54
1:F:1630:LYS:O	1:F:1634:GLU:HG2	2.07	0.54
3:A:405:ARG:HB2	3:A:407:ASP:OD1	2.07	0.54
3:A:692:MET:O	3:A:696:LEU:N	2.38	0.54
1:B:231:PHE:CE2	1:B:233:CYS:HB3	2.42	0.54
1:B:840:PHE:O	1:B:844:ILE:HG12	2.06	0.54
1:B:936:ILE:O	1:B:940:VAL:HG12	2.07	0.54
1:F:720:ILE:HG12	1:F:766:PHE:CE1	2.42	0.54
1:F:1384:ARG:NH2	1:F:1457:ASN:OD1	2.39	0.54
3:E:687:ASP:OD1	3:E:688:THR:N	2.40	0.54
3:A:564:LYS:HA	3:A:654:PHE:HD1	1.73	0.54
1:B:688:THR:O	1:B:692:LEU:HG	2.06	0.54
1:B:1465:SER:HA	1:B:1486:ARG:HG2	1.89	0.54
1:B:1482:MET:HA	1:B:1482:MET:HE3	1.88	0.54
1:F:1162:GLY:HA2	1:F:1208:ARG:CZ	2.38	0.54
2:G:39:ASN:H	2:G:57:ASP:HB3	1.72	0.54
3:E:640:LEU:O	3:E:656:ALA:N	2.36	0.54
4:D:98:HIS:CE1	4:D:149:ILE:HB	2.43	0.54
1:B:18:ASN:ND2	1:B:28:SER:HB3	2.22	0.54
1:B:342:LYS:O	1:B:402:SER:HA	2.07	0.54
1:B:859:CYS:HA	1:B:862:LYS:HE2	1.90	0.54
1:B:972:TYR:O	1:B:975:THR:N	2.40	0.54
1:B:1148:GLU:O	1:B:1152:ILE:HG12	2.07	0.54
1:B:1280:PRO:HA	1:B:1283:LEU:HD23	1.89	0.54
1:B:1611:LEU:HD11	1:B:1616:LYS:HA	1.88	0.54
2:C:69:PRO:HA	2:C:72:TYR:CD2	2.42	0.54
2:C:139:TYR:HD1	2:C:156:GLU:OE1	1.89	0.54
1:F:926:GLN:HE21	1:F:930:GLU:CD	2.14	0.54
1:F:1117:GLU:OE2	1:F:1120:LEU:HG	2.08	0.54
1:F:1483:TRP:CE2	1:F:1514:PRO:HD3	2.42	0.54
1:F:1609:GLU:HB2	1:F:1610:LYS:HZ2	1.73	0.54
1:B:669:LEU:HD12	1:B:670:GLN:N	2.23	0.54
2:C:98:TYR:CE1	2:C:149:ILE:HD13	2.41	0.54
1:F:19:TYR:CG	1:F:20:ASN:N	2.76	0.54
1:F:80:VAL:HG22	1:F:85:LEU:HD21	1.88	0.54
1:F:85:LEU:O	1:F:88:VAL:HG12	2.08	0.54
1:F:738:ASN:HA	1:F:741:VAL:HG12	1.89	0.54
1:F:1485:GLU:HG3	1:F:1511:GLU:OE1	2.08	0.54
2:G:96:LYS:O	2:G:100:GLU:HG3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:164:GLY:O	2:G:168:VAL:HG23	2.08	0.54
3:E:578:ARG:HG2	3:E:587:HIS:HD2	1.72	0.54
3:A:669:LEU:HA	3:A:672:LEU:HD12	1.89	0.54
3:A:715:LYS:NZ	3:A:716:GLU:O	2.37	0.54
1:B:6:PRO:HG3	3:A:724:TYR:CD1	2.42	0.54
1:B:979:ARG:O	1:B:982:ILE:HG22	2.07	0.54
1:B:1088:ARG:HG2	1:B:1092:TYR:CE2	2.43	0.54
1:F:4:TRP:CZ3	1:F:46:ARG:HG2	2.43	0.54
1:F:181:ILE:O	1:F:185:LYS:NZ	2.41	0.54
1:F:1339:GLY:O	1:F:1343:LYS:HG3	2.08	0.54
3:A:272:ARG:NH1	3:A:273:SER:HB2	2.23	0.54
1:B:4:TRP:CE3	1:B:46:ARG:HG2	2.43	0.54
1:B:882:LEU:HA	1:B:885:GLN:NE2	2.22	0.54
1:B:1008:VAL:O	1:B:1012:THR:HG23	2.08	0.54
1:B:1602:GLU:HA	1:B:1605:ARG:NE	2.23	0.54
1:F:318:LEU:HD22	1:F:320:ARG:HH22	1.72	0.54
1:F:1184:LYS:H	1:F:1184:LYS:HD2	1.73	0.54
3:E:544:ILE:HG21	3:E:690:LEU:HD22	1.89	0.54
3:A:380:ALA:O	3:A:384:MET:HG2	2.07	0.54
3:A:511:TYR:HE1	3:A:518:ARG:HH21	1.55	0.54
3:A:678:MET:N	3:A:678:MET:SD	2.81	0.54
1:B:89:GLN:O	1:B:92:THR:OG1	2.22	0.54
1:B:561:THR:HG21	1:B:631:LEU:HD22	1.90	0.54
2:C:21:ILE:HD11	2:C:35:THR:HG23	1.89	0.54
1:F:41:TYR:CZ	3:E:717:PRO:HD3	2.41	0.54
1:F:1478:GLU:O	1:F:1482:MET:HG2	2.08	0.54
2:G:82:PHE:HD1	2:G:112:LEU:HD11	1.73	0.54
3:E:579:LEU:HD13	3:E:586:LEU:HD22	1.90	0.54
3:A:619:GLY:N	3:A:641:ALA:O	2.39	0.54
4:D:21:ILE:O	4:D:26:ASN:N	2.41	0.54
1:B:1086:ARG:O	1:B:1090:MET:HG2	2.08	0.54
1:B:1485:GLU:OE1	1:B:1485:GLU:N	2.40	0.54
1:F:128:ARG:NH1	1:F:128:ARG:O	2.34	0.54
1:F:843:PHE:O	1:F:846:SER:OG	2.17	0.54
1:F:857:LEU:HB3	1:F:905:LEU:HD21	1.90	0.54
1:F:1028:LEU:O	1:F:1032:PHE:CB	2.48	0.54
1:F:1178:GLU:O	1:F:1182:LYS:HD2	2.08	0.54
1:F:1391:ARG:NE	2:G:26:ASN:O	2.39	0.54
3:A:133:VAL:HG21	3:A:158:THR:HG21	1.90	0.54
1:B:746:ASP:CG	1:B:748:SER:HG	2.15	0.54
1:B:1036:ALA:C	1:B:1038:PHE:H	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1069:ARG:O	1:B:1073:VAL:HG23	2.07	0.54
1:B:1633:VAL:HG12	1:B:1637:TYR:HD2	1.71	0.54
2:C:123:LYS:HA	2:C:126:ILE:HG12	1.88	0.54
2:C:163:ARG:C	2:C:165:LEU:H	2.15	0.54
1:F:167:ASP:OD1	1:F:168:ASP:N	2.36	0.54
1:F:198:ILE:O	1:F:201:GLU:HG2	2.07	0.54
1:F:719:TYR:HD1	1:F:723:HIS:HB2	1.72	0.54
1:F:896:LYS:HG2	1:F:897:PRO:HD3	1.90	0.54
3:A:251:PHE:HB3	3:A:300:LEU:HD22	1.89	0.54
3:A:552:ARG:HD3	3:A:664:ILE:HG23	1.90	0.54
1:B:154:HIS:O	1:B:158:MET:HG2	2.08	0.53
1:B:962:GLN:O	1:B:1019:ARG:NH1	2.40	0.53
1:B:1363:PHE:HE1	1:B:1391:ARG:HA	1.73	0.53
1:F:198:ILE:HG13	1:F:202:LYS:NZ	2.23	0.53
1:F:1043:TRP:HA	1:F:1046:TYR:HB3	1.90	0.53
3:A:331:ALA:HB2	3:A:395:TYR:CE2	2.44	0.53
4:D:79:VAL:HG22	4:D:111:LEU:HD23	1.90	0.53
1:B:630:LYS:HG3	1:B:668:PHE:HZ	1.73	0.53
1:B:800:MET:HE1	1:B:804:ARG:HE	1.72	0.53
1:F:141:LEU:O	1:F:145:LYS:HG3	2.07	0.53
3:A:294:LEU:HA	3:A:297:LEU:HD12	1.89	0.53
4:D:5:LYS:HG2	4:D:75:THR:HA	1.91	0.53
4:D:46:VAL:HG11	4:D:174:ARG:HB3	1.90	0.53
1:B:228:PHE:CE2	1:B:399:LEU:HB2	2.40	0.53
1:B:1125:ILE:HD13	1:B:1175:LEU:HB2	1.88	0.53
1:F:31:ILE:HB	3:E:697:ARG:HB3	1.91	0.53
1:F:450:LEU:HB3	1:F:509:TRP:CE3	2.42	0.53
1:F:1109:ILE:O	1:F:1112:VAL:HG22	2.08	0.53
3:A:424:LEU:O	3:A:428:LEU:HB2	2.08	0.53
4:D:82:PHE:CE1	4:D:90:TYR:HD2	2.26	0.53
4:D:152:VAL:HG21	4:D:175:ALA:HB2	1.90	0.53
1:B:821:PRO:O	1:B:824:ILE:HG12	2.08	0.53
1:B:1221:MET:HG3	1:B:1250:LEU:HD13	1.90	0.53
2:C:90:PHE:HE2	2:C:137:ILE:HB	1.73	0.53
1:F:219:ILE:HD12	1:F:408:GLY:HA2	1.90	0.53
1:F:245:LEU:O	1:F:254:ILE:N	2.33	0.53
1:F:666:VAL:HA	1:F:669:LEU:HB3	1.91	0.53
1:F:785:ASP:OD1	1:F:786:GLU:N	2.41	0.53
2:G:98:TYR:CE1	2:G:149:ILE:HD13	2.39	0.53
3:E:616:VAL:HA	3:E:644:ILE:HA	1.91	0.53
3:E:670:ASN:HA	3:E:673:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:51:LEU:HA	3:A:77:LEU:HA	1.89	0.53
3:A:408:LYS:HG2	3:A:475:GLU:OE1	2.09	0.53
1:B:942:GLY:C	1:B:944:ASN:H	2.14	0.53
1:B:1082:GLU:OE1	1:B:1082:GLU:N	2.27	0.53
1:F:643:TRP:HZ2	1:F:678:ASN:HB3	1.73	0.53
1:F:819:TYR:O	1:F:822:SER:OG	2.25	0.53
1:F:1240:TYR:O	1:F:1244:LEU:HG	2.09	0.53
3:A:52:GLN:HG2	3:A:76:ARG:O	2.09	0.53
3:A:323:ILE:O	3:A:326:GLU:HG3	2.08	0.53
1:B:182:ALA:HA	1:B:185:LYS:HZ3	1.73	0.53
1:B:1328:TYR:HA	1:B:1332:VAL:HG22	1.91	0.53
2:C:162:GLN:HA	2:C:165:LEU:HD13	1.89	0.53
1:F:4:TRP:CE3	1:F:46:ARG:HG2	2.43	0.53
1:F:1601:THR:O	1:F:1605:ARG:HG2	2.08	0.53
2:G:83:SER:HA	2:G:115:THR:HB	1.90	0.53
3:A:181:ILE:HD11	3:A:219:VAL:HA	1.90	0.53
1:B:118:GLN:HB3	1:B:122:TYR:CZ	2.44	0.53
1:B:486:PRO:HD3	1:B:492:GLY:HA2	1.91	0.53
1:B:727:THR:O	1:B:774:TYR:HB2	2.08	0.53
1:F:300:ILE:O	1:F:322:PHE:HB3	2.08	0.53
1:F:467:GLU:OE1	1:F:534:ARG:HD3	2.08	0.53
1:F:921:THR:OG1	1:F:924:HIS:HB3	2.09	0.53
1:F:1024:PHE:HA	1:F:1027:VAL:HG12	1.90	0.53
1:F:1063:THR:HA	1:F:1069:ARG:CD	2.39	0.53
1:F:1066:GLN:HA	1:F:1069:ARG:NH2	2.23	0.53
1:F:1089:ASP:HA	1:F:1092:TYR:CD2	2.43	0.53
3:A:129:LEU:HA	3:A:132:MET:HG2	1.90	0.53
3:A:457:CYS:O	3:A:460:ILE:HG22	2.08	0.53
3:A:563:ARG:HG2	3:A:573:LYS:O	2.08	0.53
1:B:46:ARG:HB3	1:B:58:ILE:HG12	1.90	0.53
1:B:154:HIS:HA	1:B:157:ARG:NE	2.21	0.53
1:B:979:ARG:O	1:B:983:ILE:HG13	2.09	0.53
1:B:1143:ASN:HB2	1:B:1145:HIS:CD2	2.43	0.53
1:B:1443:ASP:OD1	1:B:1443:ASP:N	2.40	0.53
1:F:730:TYR:CZ	1:F:731:VAL:HG23	2.44	0.53
1:F:936:ILE:HD12	1:F:939:THR:HB	1.91	0.53
1:F:1618:LEU:HD22	1:F:1621:ARG:NH2	2.23	0.53
2:G:93:VAL:HG23	2:G:97:TRP:HB2	1.89	0.53
1:B:470:MET:SD	1:B:496:TYR:HB3	2.49	0.53
1:B:529:PHE:N	1:B:550:ALA:O	2.24	0.53
1:B:725:SER:HA	1:B:773:LEU:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:852:LEU:HB3	1:B:855:GLN:HB2	1.90	0.53
1:B:1386:LYS:HB3	1:B:1389:GLU:HB2	1.90	0.53
1:F:154:HIS:O	1:F:158:MET:HG2	2.08	0.53
1:F:221:THR:O	1:F:408:GLY:N	2.42	0.53
1:F:828:LYS:NZ	1:F:867:THR:HA	2.24	0.53
1:F:1440:SER:H	1:F:1442:LYS:NZ	2.06	0.53
1:F:1529:ILE:HD13	1:F:1550:LEU:HD23	1.91	0.53
2:G:11:ASP:OD1	2:G:11:ASP:N	2.41	0.53
3:A:45:ASN:HB3	3:A:48:TYR:CD2	2.44	0.53
3:A:202:LEU:HD23	3:A:205:LEU:HD12	1.91	0.53
1:B:142:ALA:HA	1:B:145:LYS:HE2	1.91	0.53
1:B:306:MET:HB2	1:B:314:HIS:CE1	2.43	0.53
1:B:589:PRO:HG3	1:B:598:LYS:HD2	1.90	0.53
1:B:593:MET:HA	1:B:596:GLU:CD	2.34	0.53
1:B:1056:HIS:HD1	1:B:1057:GLU:CD	2.16	0.53
1:B:1231:TYR:HE2	1:B:1243:TYR:CE2	2.23	0.53
1:B:1599:LEU:HA	1:B:1602:GLU:OE1	2.09	0.53
2:C:82:PHE:HD1	2:C:112:LEU:HD11	1.73	0.53
1:F:166:ARG:O	1:F:171:ASN:HA	2.09	0.53
1:F:674:ASP:O	1:F:678:ASN:ND2	2.43	0.53
3:E:548:ILE:O	3:E:552:ARG:HG2	2.09	0.53
3:A:111:SER:O	3:A:168:HIS:NE2	2.41	0.53
3:A:178:VAL:O	3:A:182:LYS:HG2	2.09	0.53
3:A:224:THR:HB	3:A:227:GLN:HG2	1.91	0.53
3:A:276:LEU:HA	3:A:280:ILE:HD12	1.91	0.53
3:A:309:MET:SD	3:A:379:LEU:HD13	2.48	0.53
3:A:646:TYR:CE1	3:A:652:LEU:HG	2.44	0.53
1:B:204:ILE:HA	1:B:207:ASN:O	2.09	0.52
1:B:936:ILE:HD12	1:B:939:THR:HB	1.91	0.52
1:B:1307:TYR:O	1:B:1311:GLY:N	2.42	0.52
1:F:297:VAL:O	1:F:299:GLN:NE2	2.42	0.52
1:F:414:GLN:NE2	1:F:427:ILE:HD11	2.24	0.52
1:F:1362:TYR:OH	1:F:1384:ARG:NE	2.36	0.52
3:A:457:CYS:SG	3:A:458:ILE:N	2.82	0.52
3:A:590:ASP:O	3:A:604:LEU:HD22	2.09	0.52
4:D:145:LEU:O	4:D:149:ILE:HG12	2.09	0.52
1:B:2:ALA:N	3:A:717:PRO:HG2	2.23	0.52
1:B:43:GLY:O	1:B:61:GLU:N	2.37	0.52
1:B:1516:GLU:O	1:B:1519:ILE:N	2.41	0.52
1:F:18:ASN:HD21	3:E:536:LEU:HA	1.73	0.52
1:F:19:TYR:CG	1:F:59:PHE:HE1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:72:GLU:HA	1:F:89:GLN:NE2	2.21	0.52
1:F:187:HIS:HD1	1:F:1006:TRP:CD1	2.25	0.52
1:F:1245:TYR:HD2	1:F:1248:ARG:NH2	2.02	0.52
2:G:28:PHE:HB3	2:G:31:GLU:HG3	1.92	0.52
2:G:84:LEU:HD13	2:G:120:ARG:HH11	1.74	0.52
3:A:423:MET:SD	3:A:424:LEU:N	2.82	0.52
3:A:588:TYR:O	3:A:603:SER:OG	2.23	0.52
1:B:19:TYR:CG	1:B:20:ASN:N	2.76	0.52
1:B:697:LEU:HA	1:B:700:ILE:HD12	1.90	0.52
1:F:72:GLU:CD	1:F:75:GLY:H	2.17	0.52
1:F:73:ASP:O	1:F:79:THR:N	2.39	0.52
1:F:225:TYR:HE1	1:F:278:GLN:HB3	1.73	0.52
1:F:1306:SER:O	1:F:1310:LYS:HG2	2.09	0.52
3:A:541:GLN:HG3	3:A:545:LEU:HD23	1.91	0.52
4:D:86:SER:O	4:D:89:SER:OG	2.13	0.52
1:B:246:TYR:OH	1:B:383:LEU:HD21	2.09	0.52
1:B:566:ARG:HA	1:B:623:ALA:HA	1.90	0.52
1:B:704:ILE:HG21	1:B:716:LEU:HD11	1.92	0.52
1:B:1086:ARG:NH2	1:B:1089:ASP:OD2	2.35	0.52
2:C:82:PHE:CZ	2:C:114:GLY:HA2	2.45	0.52
1:F:172:ILE:C	1:F:175:PRO:HD2	2.34	0.52
1:F:871:GLN:HG2	1:F:875:ARG:HB2	1.90	0.52
1:F:1220:ARG:O	1:F:1224:THR:HG22	2.08	0.52
2:G:87:PRO:HA	2:G:90:PHE:CD2	2.44	0.52
3:E:537:LYS:HE3	3:E:690:LEU:HD23	1.92	0.52
3:A:241:THR:HG22	3:A:290:MET:HE2	1.91	0.52
3:A:408:LYS:O	3:A:474:SER:N	2.43	0.52
1:B:261:ARG:HB2	1:B:270:GLU:HG3	1.91	0.52
1:B:380:THR:HG22	1:B:510:TYR:CZ	2.44	0.52
1:B:468:VAL:HG12	1:B:470:MET:HE3	1.91	0.52
1:B:570:VAL:HB	1:B:572:TYR:CE2	2.44	0.52
1:B:958:ILE:HG13	1:B:959:ALA:H	1.72	0.52
1:B:1518:ALA:HB1	1:B:1566:TYR:HE1	1.73	0.52
1:B:1535:GLN:OE1	1:B:1542:LEU:HD11	2.09	0.52
2:C:5:LYS:N	2:C:76:ASP:OD2	2.42	0.52
2:C:23:TYR:HB2	2:C:165:LEU:HD21	1.90	0.52
1:F:957:MET:HA	1:F:960:LEU:HD12	1.91	0.52
1:F:1469:ARG:HD2	1:F:1481:THR:HB	1.90	0.52
1:F:1470:LYS:HB3	1:F:1483:TRP:CD1	2.45	0.52
2:G:163:ARG:C	2:G:165:LEU:H	2.17	0.52
3:A:464:ASN:O	3:A:468:LYS:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:511:TYR:HE1	3:A:518:ARG:NH2	2.07	0.52
1:B:249:ASP:OD2	1:B:293:ARG:N	2.43	0.52
1:B:330:THR:HG23	1:B:333:ILE:HD11	1.91	0.52
1:B:457:LYS:HA	1:B:463:PRO:HA	1.90	0.52
1:B:643:TRP:HA	1:B:646:ASN:HB3	1.90	0.52
1:B:925:ILE:HA	1:B:928:ILE:HD12	1.91	0.52
1:B:1514:PRO:HA	1:B:1517:ASN:HB2	1.90	0.52
1:F:1032:PHE:HB3	1:F:1043:TRP:HH2	1.75	0.52
1:F:1208:ARG:HB3	1:F:1212:MET:HE1	1.92	0.52
1:F:1483:TRP:HE3	1:F:1511:GLU:HG3	1.74	0.52
2:G:45:MET:HE2	2:G:50:PRO:HB3	1.91	0.52
2:G:129:LEU:O	2:G:134:LEU:N	2.37	0.52
3:A:259:ARG:HB3	3:A:304:LEU:HD11	1.91	0.52
3:A:609:PRO:HD2	3:A:612:ASP:OD1	2.09	0.52
1:B:273:LYS:O	1:B:277:LEU:HG	2.09	0.52
1:B:1178:GLU:O	1:B:1182:LYS:HD2	2.10	0.52
1:B:1368:TYR:O	1:B:1372:PHE:HE2	1.93	0.52
1:F:79:THR:HA	1:F:85:LEU:HD22	1.91	0.52
1:F:81:ILE:HG21	1:F:141:LEU:HD21	1.91	0.52
3:E:556:LEU:HD21	3:E:665:TRP:CD1	2.45	0.52
3:A:612:ASP:HB2	3:A:646:TYR:HB2	1.90	0.52
1:B:106:TYR:HA	1:B:111:LEU:HD11	1.91	0.52
1:B:306:MET:HG2	1:B:320:ARG:HH21	1.75	0.52
1:B:772:VAL:HG23	1:B:776:ARG:NH2	2.25	0.52
1:B:909:ILE:HG13	1:B:910:LEU:H	1.73	0.52
1:F:714:PRO:HA	1:F:717:GLU:HG2	1.92	0.52
1:F:1054:LEU:HB2	1:F:1083:ILE:HG21	1.92	0.52
1:F:1229:ASN:HA	1:F:1232:LYS:HE2	1.91	0.52
1:F:1248:ARG:NH1	1:F:1252:ARG:HH12	2.06	0.52
1:F:1549:MET:HE1	2:G:56:TRP:CD2	2.44	0.52
3:E:698:LEU:O	3:E:702:GLU:HG2	2.10	0.52
1:B:41:TYR:CE1	3:A:717:PRO:HD3	2.45	0.52
1:B:437:ILE:HG13	1:B:708:LYS:HE3	1.92	0.52
1:B:706:ASP:OD1	1:B:708:LYS:N	2.31	0.52
1:B:1089:ASP:HA	1:B:1092:TYR:CD2	2.45	0.52
1:B:1154:LYS:HA	1:B:1157:GLN:OE1	2.10	0.52
1:B:1391:ARG:HH11	1:B:1429:PHE:HA	1.75	0.52
1:F:187:HIS:HB3	1:F:1006:TRP:CD1	2.44	0.52
1:F:1065:SER:OG	1:F:1068:LYS:N	2.43	0.52
3:E:678:MET:HA	3:E:683:ARG:HH12	1.75	0.52
3:A:425:CYS:HA	3:A:430:VAL:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:670:ASN:HA	3:A:673:LEU:HB2	1.91	0.52
1:B:60:PRO:HB3	3:A:714:PRO:HD2	1.92	0.52
1:B:1136:PHE:HZ	1:B:1185:TYR:CE2	2.28	0.52
1:B:1274:SER:HB2	1:B:1293:GLN:NE2	2.25	0.52
1:B:1623:SER:HB3	1:B:1627:ARG:NH2	2.25	0.52
1:F:48:TYR:HB3	1:F:53:LYS:HA	1.92	0.52
1:F:59:PHE:CZ	1:F:63:TYR:HB3	2.45	0.52
1:F:221:THR:HG23	1:F:283:ASP:HA	1.92	0.52
1:F:583:LYS:HG3	1:F:586:LEU:HD12	1.90	0.52
1:F:724:PHE:CZ	1:F:726:ALA:HB3	2.44	0.52
1:F:945:ARG:NH1	1:F:946:GLN:HB2	2.24	0.52
1:F:1573:GLU:O	1:F:1577:GLN:NE2	2.43	0.52
1:F:1607:HIS:NE2	1:F:1615:LEU:HB3	2.24	0.52
2:G:5:LYS:HG2	2:G:56:TRP:HE1	1.75	0.52
3:A:198:LEU:HD11	3:A:231:HIS:CD2	2.44	0.52
3:A:387:PHE:O	3:A:392:GLN:N	2.43	0.52
1:B:110:LYS:HD3	1:B:113:LEU:HD12	1.91	0.51
1:B:297:VAL:HG22	1:B:326:VAL:HG22	1.91	0.51
1:B:411:THR:O	1:B:415:LYS:HD3	2.11	0.51
1:B:469:THR:HB	1:B:530:THR:OG1	2.10	0.51
1:B:970:SER:HA	1:B:974:SER:HB3	1.93	0.51
1:B:1165:ASP:HB2	1:B:1168:TYR:HB2	1.92	0.51
1:F:677:PHE:HE2	1:F:766:PHE:CE1	2.28	0.51
1:F:879:LEU:HD13	1:F:924:HIS:CE1	2.45	0.51
1:F:1026:GLU:O	1:F:1029:THR:OG1	2.22	0.51
1:F:1291:TYR:HB3	1:F:1296:LEU:CD2	2.35	0.51
1:F:1405:ALA:H	3:E:584:LYS:HZ1	1.55	0.51
3:E:578:ARG:O	3:E:587:HIS:N	2.23	0.51
3:E:588:TYR:OH	3:E:607:LYS:O	2.20	0.51
3:A:299:VAL:O	3:A:303:ASN:ND2	2.43	0.51
4:D:158:SER:HB3	4:D:163:ASP:HB3	1.92	0.51
1:B:520:GLU:OE1	1:B:520:GLU:N	2.32	0.51
1:B:716:LEU:O	1:B:720:ILE:HG13	2.10	0.51
1:B:1370:GLN:O	1:B:1377:ARG:NH2	2.43	0.51
2:C:90:PHE:O	2:C:94:ARG:HD3	2.11	0.51
1:F:17:TYR:CZ	3:E:710:PRO:HB3	2.45	0.51
2:G:124:ASP:O	2:G:127:GLU:HG2	2.09	0.51
2:G:137:ILE:HG23	2:G:141:GLN:NE2	2.24	0.51
3:A:491:ALA:O	3:A:496:PRO:HD3	2.09	0.51
1:B:4:TRP:CZ3	1:B:46:ARG:HG2	2.44	0.51
1:B:166:ARG:HE	1:B:173:LEU:HD12	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:232:VAL:O	1:B:397:GLN:HA	2.09	0.51
1:B:241:LEU:HB3	1:B:243:MET:HE1	1.92	0.51
1:B:383:LEU:HD22	1:B:510:TYR:CE2	2.46	0.51
1:B:556:ASN:ND2	1:B:560:THR:OG1	2.25	0.51
1:B:1372:PHE:CZ	1:B:1424:GLN:HB3	2.45	0.51
1:F:34:THR:O	1:F:50:LEU:N	2.31	0.51
1:F:764:PHE:CD1	1:F:823:ILE:HB	2.44	0.51
1:F:1360:PRO:HG2	1:F:1362:TYR:CE1	2.45	0.51
3:A:52:GLN:HA	3:A:61:ILE:HG12	1.91	0.51
1:B:1:MET:N	3:A:716:GLU:HB3	2.25	0.51
1:B:4:TRP:CD1	3:A:722:PHE:HD1	2.29	0.51
1:B:1586:VAL:HA	1:B:1589:LEU:HD12	1.91	0.51
1:F:866:SER:C	1:F:868:LEU:H	2.19	0.51
1:F:1090:MET:O	1:F:1090:MET:HE3	2.10	0.51
3:A:51:LEU:HD22	3:A:75:LEU:HB3	1.91	0.51
3:A:224:THR:HG22	3:A:226:GLY:H	1.75	0.51
3:A:386:TYR:CD1	3:A:453:GLU:HB3	2.45	0.51
4:D:1:MET:HG3	4:D:52:ASN:HB2	1.91	0.51
1:B:694:PHE:O	1:B:697:LEU:HG	2.11	0.51
1:B:720:ILE:HG12	1:B:766:PHE:CE1	2.46	0.51
1:B:1539:ASP:OD1	1:B:1542:LEU:HB2	2.11	0.51
1:B:1557:PRO:HB2	1:B:1562:GLY:H	1.75	0.51
1:F:36:HIS:N	1:F:48:TYR:O	2.41	0.51
1:F:193:ARG:HA	1:F:196:GLU:CD	2.36	0.51
3:A:237:GLN:HG3	3:A:290:MET:HE3	1.93	0.51
3:A:348:ARG:NH1	3:A:352:TYR:OH	2.44	0.51
3:A:491:ALA:O	3:A:494:THR:OG1	2.24	0.51
3:A:496:PRO:HG2	3:A:502:PHE:HD1	1.76	0.51
3:A:644:ILE:HD11	3:A:669:LEU:HD13	1.92	0.51
3:A:670:ASN:O	3:A:674:GLY:N	2.43	0.51
1:B:105:LEU:HD13	1:B:110:LYS:NZ	2.24	0.51
1:B:127:TRP:O	1:B:131:ILE:HG12	2.09	0.51
1:B:438:LEU:N	1:B:441:ASP:OD2	2.44	0.51
1:B:794:LEU:HG	1:B:798:PHE:CZ	2.45	0.51
1:B:1002:TYR:CZ	1:B:1009:MET:HE1	2.45	0.51
1:B:1220:ARG:O	1:B:1224:THR:HG22	2.11	0.51
2:C:8:VAL:HG22	2:C:79:LEU:HB2	1.93	0.51
2:C:65:ASP:HA	2:C:68:ARG:NE	2.26	0.51
1:F:817:LEU:HD11	1:F:855:GLN:HB3	1.93	0.51
1:F:1062:GLU:O	1:F:1069:ARG:N	2.44	0.51
1:F:1336:GLU:O	1:F:1340:ASN:ND2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1361:GLU:OE2	1:F:1388:TYR:HA	2.11	0.51
1:F:1593:ILE:O	1:F:1596:GLN:HB3	2.11	0.51
3:A:582:ASN:HB2	3:A:585:VAL:HG12	1.91	0.51
1:B:87:LEU:O	1:B:90:GLU:HG3	2.11	0.51
1:B:744:ALA:HB3	1:B:804:ARG:NH1	2.25	0.51
1:B:1398:LEU:HD23	1:B:1426:MET:HE3	1.93	0.51
1:B:1478:GLU:HG3	2:C:34:PRO:HB2	1.93	0.51
1:F:333:ILE:O	1:F:405:LEU:HD22	2.11	0.51
1:F:337:VAL:HG11	1:F:344:HIS:CE1	2.46	0.51
1:F:864:VAL:HG11	1:F:909:ILE:HG22	1.93	0.51
1:F:889:GLN:OE1	1:F:895:ASN:HB3	2.11	0.51
1:F:1110:LEU:O	1:F:1114:LEU:N	2.43	0.51
1:F:1340:ASN:HA	1:F:1343:LYS:HE2	1.92	0.51
1:F:1567:GLU:HA	1:F:1571:PHE:CD1	2.45	0.51
1:F:1613:GLU:OE2	1:F:1614:GLN:NE2	2.43	0.51
4:D:90:TYR:CE1	4:D:94:ARG:HD2	2.46	0.51
1:B:972:TYR:CE2	1:B:976:PHE:HA	2.45	0.51
1:B:1200:LEU:HD23	1:B:1230:PHE:CE2	2.42	0.51
1:B:1495:PHE:CE1	1:B:1502:PHE:HD2	2.28	0.51
1:F:914:ASP:OD1	1:F:916:LYS:NZ	2.38	0.51
1:F:1372:PHE:O	1:F:1377:ARG:NH2	2.44	0.51
3:E:543:GLU:O	3:E:546:GLU:HG2	2.11	0.51
3:E:680:ASP:OD1	3:E:681:LEU:HD12	2.11	0.51
3:A:72:GLY:HA3	4:D:64:TYR:HE2	1.76	0.51
3:A:546:GLU:HA	3:A:549:LYS:HE3	1.93	0.51
1:B:69:ALA:HB2	1:B:76:GLN:HB2	1.93	0.51
1:B:299:GLN:HG3	1:B:324:VAL:HG22	1.92	0.51
1:B:927:LEU:CB	1:B:931:ARG:HH12	2.17	0.51
1:B:1148:GLU:HA	1:B:1151:LEU:HB3	1.93	0.51
1:B:1306:SER:O	1:B:1310:LYS:HG2	2.11	0.51
1:B:1474:ASP:OD2	1:B:1477:ASN:ND2	2.37	0.51
1:F:44:TRP:HE3	1:F:58:ILE:HG22	1.76	0.51
1:F:98:TRP:HZ3	1:F:159:LEU:HD13	1.75	0.51
1:F:129:SER:O	1:F:132:LEU:HB2	2.11	0.51
1:F:1489:TYR:HE1	1:F:1507:ILE:HG13	1.74	0.51
3:A:8:VAL:HG22	3:A:10:VAL:HG13	1.93	0.51
3:A:198:LEU:HD21	3:A:231:HIS:HD2	1.75	0.51
1:B:45:TYR:CE2	1:B:66:LEU:HD12	2.46	0.51
1:B:111:LEU:O	1:B:114:PHE:HB3	2.11	0.51
1:B:127:TRP:O	1:B:130:GLN:HG2	2.11	0.51
1:B:240:GLU:O	1:B:300:ILE:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:409:ASP:CG	1:B:411:THR:HG1	2.18	0.51
1:B:985:PHE:O	1:B:989:THR:HG23	2.11	0.51
1:B:1322:LYS:HD3	1:B:1345:ARG:NH1	2.26	0.51
2:C:7:VAL:HG22	2:C:56:TRP:CD1	2.46	0.51
2:C:29:PRO:HG3	2:C:162:GLN:CD	2.35	0.51
1:F:195:GLU:O	1:F:199:GLN:HG2	2.11	0.51
1:F:616:THR:OG1	1:F:617:LYS:N	2.44	0.51
1:F:787:PHE:O	1:F:791:ILE:HG12	2.11	0.51
1:F:872:SER:HA	1:F:875:ARG:HH12	1.76	0.51
1:F:1306:SER:HB3	1:F:1310:LYS:NZ	2.25	0.51
1:F:1579:HIS:HB3	1:F:1582:ASP:HB2	1.93	0.51
3:E:563:ARG:HG3	3:E:657:PRO:HG3	1.92	0.51
3:A:462:LEU:HD22	3:A:506:LEU:HB3	1.93	0.51
3:A:533:ILE:HD11	3:A:706:ILE:HD13	1.93	0.51
1:B:729:ALA:O	1:B:733:LEU:HG	2.11	0.50
1:B:1546:PRO:O	1:B:1549:MET:HB2	2.11	0.50
2:C:130:LYS:HE2	2:C:130:LYS:HA	1.93	0.50
1:F:101:ILE:HD12	1:F:104:LYS:HG3	1.93	0.50
1:F:569:LEU:HD12	1:F:620:PHE:CD2	2.47	0.50
1:F:809:ALA:O	1:F:813:LYS:HG3	2.11	0.50
1:F:941:ILE:O	1:F:944:ASN:HB2	2.10	0.50
3:E:613:ILE:HD12	3:E:644:ILE:HG22	1.93	0.50
3:E:637:VAL:HA	3:E:640:LEU:HD12	1.92	0.50
3:A:548:ILE:O	3:A:551:GLN:HB3	2.11	0.50
1:B:166:ARG:HG2	1:B:173:LEU:HB2	1.92	0.50
1:B:628:SER:OG	1:B:629:THR:N	2.43	0.50
1:B:652:HIS:HA	1:B:655:LYS:HD2	1.92	0.50
1:B:761:LYS:HG3	1:B:765:ARG:NE	2.26	0.50
1:B:1167:GLN:O	1:B:1171:LEU:HG	2.11	0.50
1:B:1366:GLY:HA3	1:B:1380:ILE:HD13	1.94	0.50
1:B:1522:MET:HE1	1:B:1593:ILE:CA	2.41	0.50
1:F:89:GLN:O	1:F:92:THR:OG1	2.27	0.50
1:F:878:LEU:O	1:F:882:LEU:HG	2.10	0.50
1:F:950:ILE:HA	1:F:953:PHE:CD1	2.46	0.50
1:F:1008:VAL:O	1:F:1012:THR:HG23	2.10	0.50
1:F:1216:SER:OG	1:F:1401:GLN:NE2	2.31	0.50
1:F:1605:ARG:O	1:F:1609:GLU:HG3	2.11	0.50
2:G:87:PRO:HD2	2:G:134:LEU:HD22	1.92	0.50
2:G:116:LYS:O	2:G:120:ARG:N	2.45	0.50
3:A:200:ARG:NH2	3:A:242:TYR:OH	2.44	0.50
3:A:271:LEU:HA	3:A:274:ILE:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:90:TYR:O	4:D:94:ARG:HG3	2.11	0.50
4:D:91:GLU:O	4:D:95:HIS:ND1	2.44	0.50
1:B:256:GLU:HA	1:B:431:MET:HE2	1.93	0.50
1:B:879:LEU:HD13	1:B:924:HIS:CE1	2.47	0.50
1:B:1593:ILE:O	1:B:1596:GLN:HB3	2.12	0.50
1:F:31:ILE:HG23	3:E:701:LEU:HD23	1.94	0.50
3:A:309:MET:CE	3:A:376:PRO:HB3	2.39	0.50
1:B:88:VAL:O	1:B:92:THR:HG23	2.11	0.50
1:B:122:TYR:O	1:B:126:GLU:HG3	2.12	0.50
1:B:304:GLY:CA	1:B:317:GLY:H	2.25	0.50
1:B:346:ILE:N	1:B:399:LEU:O	2.42	0.50
1:B:877:VAL:O	1:B:880:PRO:HD2	2.11	0.50
1:B:914:ASP:HB2	1:B:963:GLN:CD	2.37	0.50
1:B:1079:MET:HA	1:B:1082:GLU:OE2	2.11	0.50
1:B:1165:ASP:HB3	1:B:1167:GLN:CD	2.36	0.50
1:B:1336:GLU:OE2	1:B:1340:ASN:ND2	2.34	0.50
2:C:96:LYS:HD2	2:C:100:GLU:HG2	1.93	0.50
2:C:114:GLY:HA3	2:C:156:GLU:HG3	1.94	0.50
1:F:329:ILE:HB	1:F:332:ILE:HB	1.93	0.50
1:F:847:ILE:HD13	1:F:856:LYS:HD2	1.94	0.50
1:F:1183:HIS:CG	1:F:1184:LYS:H	2.28	0.50
3:E:645:LEU:HA	3:E:651:GLN:HG3	1.93	0.50
3:A:386:TYR:O	3:A:390:HIS:N	2.40	0.50
3:A:537:LYS:HB2	3:A:694:ILE:HG21	1.93	0.50
3:A:561:CYS:HB3	3:A:574:PHE:CB	2.37	0.50
3:A:564:LYS:CE	3:A:590:ASP:HA	2.41	0.50
3:A:642:PHE:CE2	3:A:652:LEU:HB3	2.46	0.50
1:B:239:ALA:HB3	1:B:262:TRP:CD1	2.47	0.50
1:B:288:ASP:HA	1:B:291:ARG:HD2	1.92	0.50
1:B:477:GLY:H	1:B:526:HIS:HE1	1.59	0.50
1:B:786:GLU:HA	1:B:789:ASN:ND2	2.27	0.50
1:B:1019:ARG:O	1:B:1023:GLN:NE2	2.41	0.50
1:B:1449:GLN:HA	1:B:1452:ASN:ND2	2.27	0.50
1:B:1545:HIS:HD2	2:C:5:LYS:HE3	1.76	0.50
1:B:1567:GLU:HA	1:B:1571:PHE:HB2	1.94	0.50
2:C:139:TYR:O	2:C:142:GLY:N	2.45	0.50
1:F:127:TRP:CH2	1:F:151:LYS:HE3	2.47	0.50
1:F:853:VAL:O	1:F:857:LEU:HG	2.10	0.50
1:F:1468:PHE:CE2	1:F:1470:LYS:HB2	2.46	0.50
2:G:39:ASN:HA	2:G:57:ASP:H	1.77	0.50
2:G:40:TYR:C	2:G:55:LEU:HB2	2.37	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:78:PHE:CE1	2:G:101:VAL:HG11	2.46	0.50
3:E:541:GLN:N	3:E:542:PRO:HD3	2.26	0.50
3:A:38:CYS:O	3:A:43:LEU:N	2.31	0.50
3:A:274:ILE:HA	3:A:277:THR:HG22	1.93	0.50
3:A:276:LEU:HB2	3:A:446:PHE:HB3	1.92	0.50
3:A:551:GLN:O	3:A:555:ARG:HD3	2.11	0.50
3:A:562:PHE:HB3	3:A:575:TRP:CZ2	2.47	0.50
4:D:72:TYR:HE2	4:D:100:GLU:HG2	1.75	0.50
1:B:102:TRP:HA	1:B:105:LEU:CG	2.42	0.50
1:B:204:ILE:HG12	1:B:211:ARG:HD3	1.92	0.50
2:C:158:SER:O	2:C:162:GLN:N	2.43	0.50
1:F:84:GLU:OE1	1:F:141:LEU:HD23	2.11	0.50
1:F:717:GLU:HA	1:F:720:ILE:HD12	1.93	0.50
1:F:1063:THR:HA	1:F:1069:ARG:HD3	1.93	0.50
1:F:1365:VAL:N	1:F:1381:PHE:O	2.34	0.50
1:F:1545:HIS:CD2	2:G:5:LYS:HG3	2.47	0.50
2:G:65:ASP:HA	2:G:68:ARG:HG2	1.92	0.50
2:G:129:LEU:HA	2:G:132:LYS:HG2	1.94	0.50
3:E:609:PRO:O	3:E:613:ILE:HG12	2.11	0.50
3:A:230:PRO:O	3:A:234:GLY:N	2.42	0.50
1:B:568:ASP:OD2	1:B:569:LEU:N	2.43	0.50
1:B:568:ASP:HB3	1:B:592:LYS:HG3	1.94	0.50
1:B:892:ASP:H	1:B:895:ASN:CG	2.19	0.50
1:B:1125:ILE:HD12	1:B:1172:LEU:HA	1.94	0.50
1:F:1532:CYS:SG	1:F:1533:VAL:N	2.85	0.50
1:F:1593:ILE:O	1:F:1597:MET:HG2	2.12	0.50
3:A:120:PHE:CZ	3:A:125:GLY:HA3	2.47	0.50
3:A:147:MET:HE3	3:A:151:PHE:HB2	1.94	0.50
1:B:740:TYR:C	1:B:753:LEU:HD21	2.37	0.50
1:B:923:VAL:O	1:B:926:GLN:HB3	2.12	0.50
1:B:1549:MET:HE1	2:C:56:TRP:CE2	2.47	0.50
1:F:973:ILE:HA	1:F:976:PHE:CE1	2.46	0.50
1:F:1632:LYS:HD3	1:F:1636:HIS:CD2	2.47	0.50
1:F:1633:VAL:O	1:F:1639:VAL:N	2.39	0.50
2:G:69:PRO:O	2:G:73:PRO:HD3	2.12	0.50
3:E:586:LEU:HD23	3:E:608:LEU:HB3	1.94	0.50
3:E:685:ASP:HA	3:E:688:THR:HG22	1.94	0.50
3:A:564:LYS:HZ3	3:A:575:TRP:CD1	2.30	0.50
4:D:36:VAL:O	4:D:37:PHE:HB3	2.11	0.50
1:B:16:ILE:HG23	3:A:706:ILE:HG13	1.93	0.50
1:B:41:TYR:CZ	3:A:717:PRO:HD3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:119:GLN:HA	1:B:122:TYR:CD2	2.47	0.50
1:B:143:GLU:HA	1:B:146:LYS:HZ3	1.77	0.50
1:B:596:GLU:O	1:B:600:LEU:HG	2.12	0.50
1:B:720:ILE:HA	1:B:724:PHE:HB2	1.94	0.50
1:B:1094:LEU:HD22	1:B:1098:LYS:HG3	1.94	0.50
2:C:110:ILE:O	2:C:152:VAL:HG12	2.12	0.50
1:F:13:GLY:HA3	1:F:35:VAL:HG23	1.93	0.50
1:F:446:ILE:HG23	1:F:626:ILE:HG12	1.94	0.50
1:F:794:LEU:HG	1:F:798:PHE:CZ	2.47	0.50
1:F:1328:TYR:HB3	1:F:1338:LEU:CD2	2.42	0.50
3:A:51:LEU:HD13	3:A:75:LEU:HD13	1.92	0.50
3:A:89:HIS:HB3	3:A:123:LEU:HD21	1.94	0.50
3:A:321:ARG:HH12	3:A:366:ASN:ND2	2.10	0.50
3:A:560:THR:O	3:A:576:TYR:HA	2.12	0.50
3:A:619:GLY:HA2	3:A:641:ALA:HB3	1.92	0.50
1:B:306:MET:HA	1:B:320:ARG:HG3	1.94	0.49
1:B:713:ASN:O	1:B:717:GLU:HG2	2.12	0.49
1:B:789:ASN:O	1:B:792:ARG:N	2.45	0.49
1:B:883:THR:HG21	1:B:931:ARG:NE	2.26	0.49
1:F:30:GLN:OE1	3:E:697:ARG:NH2	2.45	0.49
1:F:45:TYR:CD2	1:F:64:ILE:HG13	2.38	0.49
1:F:809:ALA:HB1	1:F:812:ILE:HB	1.94	0.49
1:F:1392:GLU:HB2	2:G:166:LYS:HE2	1.94	0.49
1:F:1441:TYR:HE2	1:F:1450:ILE:HG21	1.75	0.49
1:B:677:PHE:HB3	1:B:681:MET:HE1	1.94	0.49
1:B:1258:THR:HG21	1:B:1496:PRO:HB2	1.94	0.49
1:B:1329:GLU:HB3	1:B:1338:LEU:HD11	1.93	0.49
2:C:14:VAL:HG21	2:C:83:SER:HB2	1.94	0.49
2:C:171:GLU:HA	2:C:174:ARG:HG2	1.94	0.49
1:F:908:ASN:O	1:F:911:GLU:HG3	2.12	0.49
1:F:928:ILE:HG23	1:F:932:LEU:HD12	1.94	0.49
1:F:1489:TYR:CE1	1:F:1507:ILE:HG13	2.47	0.49
1:F:1599:LEU:HA	1:F:1602:GLU:OE1	2.12	0.49
3:A:515:LEU:HD12	3:A:516:LYS:N	2.27	0.49
3:A:720:TYR:HB3	3:A:722:PHE:CZ	2.48	0.49
1:B:997:ILE:HG13	1:B:998:GLY:H	1.76	0.49
1:B:1436:SER:OG	1:B:1437:LEU:N	2.44	0.49
1:B:1466:ARG:H	1:B:1484:ILE:HG23	1.77	0.49
1:B:1470:LYS:HD3	1:B:1483:TRP:CD2	2.47	0.49
1:F:562:LEU:HD11	1:F:567:HIS:CG	2.47	0.49
3:E:580:SER:HB2	3:E:587:HIS:NE2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:166:ARG:HH12	1:B:168:ASP:HB2	1.77	0.49
1:B:534:ARG:NH2	1:B:541:ASP:OD2	2.46	0.49
1:B:879:LEU:HD22	1:B:924:HIS:CE1	2.47	0.49
1:B:1151:LEU:O	1:B:1155:LEU:HB2	2.13	0.49
1:F:94:THR:HG22	1:F:98:TRP:CE2	2.47	0.49
1:F:943:MET:HE1	1:F:953:PHE:CG	2.46	0.49
1:F:1184:LYS:HD2	1:F:1184:LYS:N	2.27	0.49
1:F:1236:ARG:HG3	1:F:1239:ILE:HG12	1.94	0.49
1:F:1368:TYR:HA	1:F:1378:ASN:HA	1.94	0.49
1:F:1416:GLU:HA	1:F:1419:LYS:HG2	1.93	0.49
1:F:1438:PRO:HB3	1:F:1454:TYR:CD2	2.46	0.49
1:F:1611:LEU:HD21	1:F:1616:LYS:HE2	1.94	0.49
3:A:222:GLU:O	3:A:227:GLN:NE2	2.45	0.49
3:A:541:GLN:N	3:A:542:PRO:HD3	2.26	0.49
1:B:44:TRP:HE3	1:B:58:ILE:HG22	1.77	0.49
1:B:197:LYS:O	1:B:200:GLU:HG2	2.12	0.49
1:B:273:LYS:O	1:B:276:ASN:N	2.45	0.49
1:B:436:ILE:HG23	1:B:711:HIS:NE2	2.28	0.49
1:B:551:PHE:CZ	1:B:585:TYR:HB2	2.47	0.49
1:B:817:LEU:HD11	1:B:855:GLN:HB3	1.94	0.49
1:B:1015:ARG:HD3	1:B:1076:TYR:CD1	2.45	0.49
1:B:1153:THR:O	1:B:1156:ASP:HB3	2.12	0.49
1:F:103:ARG:HA	1:F:106:TYR:HE1	1.77	0.49
1:F:110:LYS:O	1:F:112:THR:N	2.45	0.49
1:F:242:PHE:CD2	1:F:259:LEU:HD13	2.48	0.49
1:F:297:VAL:HG22	1:F:326:VAL:HG13	1.94	0.49
1:F:470:MET:HB2	1:F:527:ILE:CG2	2.42	0.49
1:F:993:PHE:O	1:F:997:ILE:HG12	2.12	0.49
1:F:1176:LEU:HD12	1:F:1177:LEU:N	2.27	0.49
1:F:1387:GLU:HG2	1:F:1388:TYR:CD2	2.47	0.49
3:E:550:GLN:HA	3:E:553:LEU:HD12	1.94	0.49
3:A:607:LYS:HG3	3:A:609:PRO:HD3	1.95	0.49
1:B:44:TRP:NE1	3:A:714:PRO:O	2.44	0.49
1:B:166:ARG:HB3	1:B:171:ASN:C	2.38	0.49
1:B:237:GLU:C	1:B:264:SER:HA	2.37	0.49
1:B:517:ILE:HB	1:B:522:VAL:HB	1.93	0.49
1:B:1193:PHE:O	1:B:1196:LEU:HB2	2.12	0.49
1:B:1206:ASP:O	1:B:1209:THR:HG22	2.11	0.49
1:B:1584:GLU:O	1:B:1588:LEU:HG	2.13	0.49
1:B:1630:LYS:O	1:B:1633:VAL:HG22	2.12	0.49
1:F:471:SER:HB2	1:F:479:LEU:HD13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:721:TYR:HB2	1:F:722:LYS:NZ	2.27	0.49
1:F:854:ARG:H	1:F:854:ARG:HD2	1.76	0.49
1:F:1361:GLU:C	1:F:1362:TYR:HD1	2.20	0.49
3:A:384:MET:SD	3:A:395:TYR:HE1	2.36	0.49
4:D:11:ASP:CG	4:D:97:TRP:HE1	2.15	0.49
1:B:249:ASP:OD2	1:B:292:PRO:HB2	2.13	0.49
1:B:776:ARG:HG3	1:B:777:PHE:HD2	1.78	0.49
1:B:840:PHE:O	1:B:843:PHE:HB3	2.13	0.49
1:B:1125:ILE:N	1:B:1126:PRO:HD2	2.28	0.49
2:C:96:LYS:O	2:C:100:GLU:HG3	2.13	0.49
1:F:256:GLU:HB3	1:F:447:TYR:CE1	2.48	0.49
1:F:632:THR:HG21	1:F:637:LEU:HD23	1.95	0.49
1:F:1221:MET:HE2	1:F:1250:LEU:HD13	1.95	0.49
2:G:39:ASN:OD1	2:G:56:TRP:HA	2.13	0.49
3:E:591:LEU:HD21	3:E:603:SER:HB2	1.94	0.49
3:A:244:ILE:HG21	3:A:293:GLN:HB3	1.95	0.49
3:A:387:PHE:HA	3:A:391:HIS:H	1.77	0.49
4:D:142:GLY:HA3	4:D:154:TYR:CE2	2.48	0.49
1:B:228:PHE:HB2	1:B:401:VAL:HG12	1.95	0.49
1:B:319:ARG:HD2	1:B:497:LYS:HB2	1.95	0.49
1:B:439:PRO:HG3	1:B:712:PHE:CD2	2.47	0.49
1:B:864:VAL:HG23	1:B:868:LEU:HD22	1.94	0.49
1:B:1035:GLN:HG2	1:B:1036:ALA:N	2.27	0.49
1:B:1136:PHE:CG	1:B:1186:LEU:HD22	2.48	0.49
1:B:1435:MET:HE3	1:B:1436:SER:HB3	1.95	0.49
1:B:1483:TRP:CE3	1:B:1511:GLU:HG3	2.48	0.49
1:B:1488:THR:N	1:B:1508:SER:O	2.32	0.49
1:F:4:TRP:HB3	1:F:39:GLU:HB3	1.95	0.49
1:F:81:ILE:HD13	1:F:141:LEU:HD21	1.95	0.49
1:F:1044:ASN:O	1:F:1048:HIS:ND1	2.45	0.49
1:F:1098:LYS:O	1:F:1102:ILE:HG13	2.12	0.49
2:G:102:ARG:NH1	2:G:106:PRO:O	2.42	0.49
3:A:11:ALA:HB3	3:A:74:ILE:HG12	1.94	0.49
3:A:361:PHE:CE1	3:A:415:ARG:HB2	2.47	0.49
3:A:500:ASP:OD2	3:A:501:GLN:N	2.46	0.49
4:D:19:LEU:HG	4:D:169:PHE:CE2	2.48	0.49
4:D:46:VAL:CG1	4:D:174:ARG:HB3	2.42	0.49
1:B:246:TYR:CE2	1:B:387:ILE:HD11	2.48	0.49
1:B:347:PRO:HB2	1:B:392:VAL:HB	1.94	0.49
1:B:444:ASN:HA	1:B:628:SER:HA	1.94	0.49
1:B:518:ALA:HB3	1:B:521:GLU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1013:GLN:HA	1:B:1016:VAL:HG22	1.94	0.49
1:B:1300:LEU:O	1:B:1304:ILE:HG13	2.12	0.49
1:F:124:LEU:HD21	1:F:151:LYS:HB2	1.93	0.49
1:F:320:ARG:CZ	1:F:500:VAL:HB	2.43	0.49
1:F:1412:THR:OG1	1:F:1466:ARG:NE	2.46	0.49
1:F:1462:PHE:HB2	1:F:1489:TYR:HB2	1.94	0.49
1:F:1466:ARG:HG2	1:F:1485:GLU:HB2	1.95	0.49
1:F:1586:VAL:HA	1:F:1589:LEU:HD12	1.95	0.49
1:F:1617:PRO:HB2	1:F:1621:ARG:HH22	1.78	0.49
3:E:620:LYS:HD3	3:E:625:MET:HB3	1.93	0.49
3:A:470:MET:C	3:A:471:ARG:HD3	2.38	0.49
1:B:9:ARG:HH21	1:B:69:ALA:C	2.21	0.49
1:B:564:ASP:CG	1:B:633:GLN:HE22	2.21	0.49
1:B:584:PHE:O	1:B:587:THR:OG1	2.21	0.49
1:B:745:ASP:OD1	1:B:804:ARG:NH1	2.45	0.49
1:B:1183:HIS:CG	1:B:1184:LYS:N	2.81	0.49
1:F:44:TRP:CH2	1:F:60:PRO:HG3	2.48	0.49
1:F:94:THR:HG22	1:F:98:TRP:NE1	2.28	0.49
1:F:1017:PHE:O	1:F:1021:ILE:HG12	2.13	0.49
1:F:1193:PHE:O	1:F:1197:VAL:HG23	2.13	0.49
1:F:1232:LYS:HB2	1:F:1240:TYR:CE2	2.48	0.49
1:F:1464:TYR:O	1:F:1486:ARG:HA	2.11	0.49
3:A:188:VAL:HG23	3:A:231:HIS:CE1	2.47	0.49
3:A:532:PRO:HG2	3:A:708:ASP:HB2	1.94	0.49
4:D:90:TYR:HE2	4:D:142:GLY:HA2	1.77	0.49
1:B:121:THR:HA	1:B:124:LEU:HD12	1.94	0.48
1:B:166:ARG:HD3	1:B:174:ASP:OD1	2.13	0.48
1:B:700:ILE:O	1:B:703:LEU:HB3	2.13	0.48
1:B:1381:PHE:HD2	1:B:1501:TRP:HD1	1.61	0.48
1:B:1563:PHE:O	1:B:1567:GLU:HG2	2.12	0.48
1:F:72:GLU:OE1	1:F:74:LEU:N	2.46	0.48
1:F:526:HIS:HB2	1:F:552:VAL:O	2.13	0.48
1:F:1019:ARG:O	1:F:1023:GLN:NE2	2.33	0.48
2:G:5:LYS:HE2	2:G:56:TRP:HZ2	1.78	0.48
3:E:614:LYS:HB2	3:E:645:LEU:HB2	1.95	0.48
3:A:204:ILE:HG22	3:A:208:MET:HE3	1.93	0.48
3:A:509:LEU:HD23	3:A:514:ILE:HD11	1.94	0.48
4:D:126:LEU:O	4:D:130:LYS:HG2	2.13	0.48
1:B:228:PHE:O	1:B:277:LEU:HB2	2.13	0.48
1:B:909:ILE:O	1:B:913:LEU:HD13	2.14	0.48
1:B:1206:ASP:HA	1:B:1209:THR:HG22	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:39:ASN:HA	2:C:57:ASP:H	1.78	0.48
1:F:505:LYS:HD2	1:F:506:GLN:HG3	1.95	0.48
1:F:743:ASN:HB3	1:F:749:LYS:HD2	1.95	0.48
1:F:1043:TRP:HE1	1:F:1090:MET:HE2	1.77	0.48
3:A:397:ARG:HH22	3:A:461:GLN:CD	2.21	0.48
4:D:87:PRO:HD2	4:D:129:LEU:HD21	1.95	0.48
1:B:227:ASN:HB3	1:B:402:SER:OG	2.14	0.48
1:B:239:ALA:HB3	1:B:262:TRP:HB3	1.94	0.48
1:B:304:GLY:HA2	1:B:317:GLY:H	1.77	0.48
1:B:637:LEU:O	1:B:641:LEU:HG	2.13	0.48
1:B:1125:ILE:HD12	1:B:1172:LEU:HD23	1.94	0.48
1:B:1602:GLU:O	1:B:1606:ILE:HG12	2.14	0.48
1:F:224:LEU:HD23	1:F:245:LEU:HD21	1.95	0.48
1:F:1019:ARG:O	1:F:1023:GLN:HG2	2.13	0.48
1:F:1192:VAL:O	1:F:1196:LEU:HG	2.14	0.48
1:F:1206:ASP:O	1:F:1210:ILE:HG12	2.13	0.48
1:F:1488:THR:OG1	1:F:1508:SER:HB2	2.13	0.48
3:E:576:TYR:HB2	3:E:598:GLU:HA	1.96	0.48
3:E:660:HIS:CG	3:E:661:GLU:N	2.81	0.48
3:A:155:LEU:O	3:A:159:LEU:HG	2.14	0.48
3:A:303:ASN:HA	3:A:431:GLY:HA2	1.95	0.48
4:D:38:ASP:HB2	4:D:57:ASP:HB3	1.95	0.48
1:B:187:HIS:HD1	1:B:1006:TRP:CD1	2.26	0.48
1:B:233:CYS:SG	1:B:234:ASN:N	2.86	0.48
1:B:910:LEU:HA	1:B:913:LEU:HD22	1.94	0.48
1:B:1362:TYR:HD2	1:B:1462:PHE:CE2	2.31	0.48
2:C:89:SER:O	2:C:93:VAL:HG12	2.13	0.48
1:F:240:GLU:OE1	1:F:259:LEU:HD11	2.13	0.48
1:F:741:VAL:HG11	1:F:794:LEU:HD12	1.96	0.48
1:F:1395:SER:O	1:F:1399:LEU:HG	2.11	0.48
1:F:1435:MET:SD	1:F:1455:ARG:NE	2.87	0.48
3:A:202:LEU:HA	3:A:205:LEU:HD12	1.94	0.48
3:A:307:ASP:OD1	3:A:308:ARG:N	2.47	0.48
3:A:514:ILE:HG22	3:A:517:ILE:HD12	1.94	0.48
4:D:66:ARG:HH11	4:D:67:LEU:HB2	1.77	0.48
1:B:35:VAL:HA	1:B:49:THR:HA	1.96	0.48
1:B:239:ALA:HB3	1:B:262:TRP:HD1	1.77	0.48
1:B:570:VAL:HB	1:B:572:TYR:CZ	2.48	0.48
1:B:654:LEU:HD23	1:B:657:LEU:HD12	1.94	0.48
1:F:45:TYR:O	1:F:59:PHE:N	2.41	0.48
1:F:256:GLU:HB3	1:F:447:TYR:HE1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1183:HIS:CG	1:F:1184:LYS:N	2.81	0.48
1:F:1519:ILE:O	1:F:1523:GLU:HG3	2.13	0.48
2:G:111:ILE:HG23	2:G:153:LYS:O	2.13	0.48
3:A:33:ILE:O	3:A:36:GLU:HG3	2.12	0.48
3:A:191:SER:OG	3:A:192:ALA:N	2.46	0.48
3:A:194:ASP:OD1	3:A:195:ILE:N	2.46	0.48
3:A:356:TYR:CE2	3:A:367:PRO:HB3	2.49	0.48
1:B:29:LEU:HD12	1:B:59:PHE:CE1	2.49	0.48
1:B:450:LEU:O	1:B:510:TYR:N	2.46	0.48
1:B:815:ALA:O	1:B:819:TYR:HD2	1.97	0.48
1:B:1284:GLN:NE2	1:B:1291:TYR:HE2	2.10	0.48
1:B:1399:LEU:HD11	1:B:1407:LYS:HD2	1.96	0.48
1:F:771:ARG:NH2	1:F:784:GLY:HA2	2.28	0.48
1:F:987:MET:HE2	1:F:1042:LEU:HD13	1.95	0.48
1:F:1055:THR:O	1:F:1055:THR:HG22	2.14	0.48
2:G:78:PHE:CD1	2:G:101:VAL:HG11	2.48	0.48
3:A:415:ARG:O	3:A:418:ILE:HG22	2.12	0.48
4:D:11:ASP:HB2	4:D:14:VAL:HG11	1.95	0.48
1:B:122:TYR:CE1	3:A:692:MET:HE3	2.48	0.48
1:B:157:ARG:HB3	1:B:194:ILE:HD12	1.96	0.48
1:B:241:LEU:HD13	1:B:262:TRP:HB2	1.96	0.48
1:B:1013:GLN:O	1:B:1017:PHE:HD2	1.97	0.48
1:B:1117:GLU:OE2	1:B:1120:LEU:HG	2.13	0.48
1:B:1176:LEU:HD12	1:B:1177:LEU:N	2.29	0.48
1:F:24:ASP:N	1:F:24:ASP:OD1	2.46	0.48
1:F:31:ILE:HB	3:E:697:ARG:CB	2.44	0.48
1:F:235:ILE:HD12	1:F:262:TRP:CD1	2.48	0.48
1:F:1089:ASP:HA	1:F:1092:TYR:HD2	1.79	0.48
1:F:1390:ARG:HD3	2:G:44:VAL:HG11	1.96	0.48
1:F:1607:HIS:CD2	1:F:1619:HIS:HB2	2.48	0.48
2:G:29:PRO:HB3	2:G:160:LEU:O	2.13	0.48
3:A:97:MET:CE	3:A:147:MET:HE1	2.42	0.48
3:A:150:CYS:O	3:A:154:MET:HG3	2.14	0.48
1:B:243:MET:HB2	1:B:258:TYR:HB3	1.95	0.48
1:B:555:MET:SD	1:B:559:GLY:HA2	2.54	0.48
1:B:556:ASN:HB2	1:B:558:ASP:OD1	2.14	0.48
1:B:931:ARG:HG3	1:B:932:LEU:HD12	1.94	0.48
1:B:1091:TRP:CD1	1:B:1127:ILE:HD12	2.49	0.48
1:B:1238:ASP:HB3	1:B:1281:HIS:HB3	1.95	0.48
2:C:118:ASP:OD1	2:C:119:LEU:N	2.47	0.48
1:F:582:ALA:C	1:F:583:LYS:HD3	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1371:GLY:C	1:F:1424:GLN:HE21	2.21	0.48
1:F:1576:LEU:HD22	1:F:1583:GLN:HB2	1.95	0.48
1:F:1632:LYS:HA	1:F:1636:HIS:CD2	2.48	0.48
2:G:100:GLU:HB2	2:G:104:HIS:CE1	2.46	0.48
3:A:60:TYR:CE1	3:A:110:LEU:HD11	2.49	0.48
1:B:29:LEU:HD22	1:B:33:ASP:HB3	1.95	0.48
1:B:96:ARG:NH1	3:A:696:LEU:O	2.40	0.48
1:B:224:LEU:HD23	1:B:281:PHE:CD2	2.49	0.48
1:B:285:SER:HB2	1:B:435:GLU:CD	2.39	0.48
1:B:593:MET:HA	1:B:596:GLU:OE2	2.14	0.48
1:B:827:VAL:HG11	1:B:836:LEU:HD13	1.96	0.48
1:F:468:VAL:O	1:F:498:SER:HB3	2.14	0.48
1:F:1177:LEU:HD22	1:F:1181:ARG:HH22	1.79	0.48
1:F:1290:VAL:HG23	1:F:1291:TYR:H	1.78	0.48
2:G:64:TYR:HB2	2:G:68:ARG:NH2	2.27	0.48
3:A:204:ILE:HG22	3:A:208:MET:CE	2.43	0.48
3:A:215:LEU:HA	3:A:218:LYS:HG3	1.96	0.48
3:A:526:GLU:HB2	3:A:531:ARG:H	1.78	0.48
3:A:575:TRP:HB3	3:A:591:LEU:O	2.14	0.48
1:B:10:GLN:OE1	1:B:10:GLN:N	2.47	0.48
1:B:414:GLN:O	1:B:418:SER:HB3	2.14	0.48
1:B:463:PRO:O	1:B:503:GLN:HA	2.14	0.48
1:B:601:GLN:HA	1:B:604:LYS:HG2	1.96	0.48
1:B:871:GLN:HB2	1:B:918:VAL:CG1	2.42	0.48
1:B:1055:THR:HG22	1:B:1055:THR:O	2.12	0.48
1:B:1211:ILE:O	1:B:1212:MET:HE2	2.14	0.48
2:C:153:LYS:HG2	2:C:171:GLU:HG2	1.95	0.48
1:F:979:ARG:HD3	1:F:1039:GLU:OE2	2.14	0.48
1:F:1231:TYR:O	1:F:1235:LYS:N	2.46	0.48
1:F:1328:TYR:HB3	1:F:1338:LEU:HD21	1.95	0.48
1:F:1370:GLN:OE1	1:F:1377:ARG:HD3	2.14	0.48
1:F:1627:ARG:HA	1:F:1630:LYS:HB2	1.94	0.48
1:F:1632:LYS:O	1:F:1637:TYR:N	2.37	0.48
2:G:7:VAL:O	2:G:79:LEU:N	2.41	0.48
3:E:580:SER:OG	3:E:582:ASN:OD1	2.25	0.48
3:A:21:LEU:O	3:A:22:MET:HE2	2.13	0.48
3:A:477:PHE:O	3:A:481:MET:HB2	2.14	0.48
4:D:78:PHE:CD2	4:D:101:VAL:HB	2.49	0.48
1:B:239:ALA:HB1	1:B:300:ILE:HG23	1.96	0.47
1:B:248:PRO:C	1:B:251:SER:H	2.22	0.47
1:B:342:LYS:HG2	1:B:344:HIS:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:345:PHE:HB2	1:B:400:TRP:CZ3	2.48	0.47
1:B:934:ARG:HH12	1:B:938:ARG:N	2.12	0.47
1:B:1224:THR:O	1:B:1227:VAL:HG12	2.14	0.47
2:C:1:MET:HE3	2:C:2:GLN:N	2.29	0.47
2:C:164:GLY:O	2:C:168:VAL:N	2.29	0.47
1:F:1248:ARG:HH11	1:F:1252:ARG:NH1	2.08	0.47
1:F:1262:TYR:HB3	1:F:1498:ILE:HG22	1.96	0.47
3:E:646:TYR:C	3:E:648:SER:H	2.21	0.47
3:A:216:TYR:OH	3:A:250:LEU:O	2.27	0.47
3:A:306:GLU:HA	3:A:309:MET:CG	2.37	0.47
3:A:467:TRP:CG	3:A:472:ALA:HB3	2.49	0.47
3:A:509:LEU:HD23	3:A:514:ILE:CD1	2.44	0.47
4:D:111:LEU:HD13	4:D:171:GLU:OE1	2.14	0.47
1:B:1:MET:HB3	3:A:720:TYR:CD1	2.49	0.47
1:B:293:ARG:HG2	1:B:328:ASP:CG	2.39	0.47
1:B:1042:LEU:O	1:B:1045:ASN:HB3	2.12	0.47
1:B:1132:MET:HE1	1:B:1144:PHE:CD2	2.48	0.47
1:B:1545:HIS:HD2	2:C:5:LYS:NZ	2.11	0.47
1:B:1625:CYS:HA	1:B:1628:GLU:HB3	1.96	0.47
1:B:1632:LYS:HD3	1:B:1636:HIS:ND1	2.29	0.47
1:F:241:LEU:HD13	1:F:262:TRP:HB2	1.96	0.47
1:F:673:LEU:HD11	1:F:716:LEU:HD22	1.96	0.47
1:F:680:MET:HE3	1:F:693:VAL:HG21	1.95	0.47
1:F:858:ASN:O	1:F:861:THR:HB	2.14	0.47
1:F:879:LEU:HD11	1:F:928:ILE:HG12	1.96	0.47
2:G:138:THR:H	2:G:141:GLN:NE2	2.11	0.47
2:G:141:GLN:N	2:G:141:GLN:OE1	2.44	0.47
3:A:325:PHE:O	3:A:328:ARG:HG2	2.14	0.47
4:D:23:TYR:HB2	4:D:165:VAL:HG12	1.95	0.47
1:B:5:ILE:H	1:B:40:MET:N	2.12	0.47
1:B:113:LEU:O	1:B:116:GLN:HG2	2.15	0.47
1:B:223:GLY:HA2	1:B:281:PHE:O	2.14	0.47
1:B:305:HIS:HB3	1:B:314:HIS:HB2	1.95	0.47
1:B:400:TRP:HH2	4:D:127:ARG:HD2	1.78	0.47
1:B:471:SER:N	1:B:528:ARG:O	2.42	0.47
1:B:721:TYR:C	1:B:722:LYS:HD2	2.39	0.47
1:B:1128:PHE:HA	1:B:1131:MET:SD	2.53	0.47
1:B:1154:LYS:O	1:B:1157:GLN:N	2.47	0.47
1:B:1484:ILE:HG22	1:B:1486:ARG:HG3	1.96	0.47
1:B:1617:PRO:O	1:B:1620:GLU:HG3	2.13	0.47
1:F:248:PRO:HG2	1:F:293:ARG:NE	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:555:MET:HE2	1:F:559:GLY:O	2.13	0.47
1:F:852:LEU:O	1:F:856:LYS:HG2	2.15	0.47
1:F:1626:PHE:O	1:F:1629:LEU:HG	2.14	0.47
3:A:52:GLN:NE2	3:A:76:ARG:HH21	2.12	0.47
3:A:356:TYR:CD1	3:A:359:LEU:HD12	2.49	0.47
3:A:505:LYS:O	3:A:509:LEU:HG	2.14	0.47
4:D:142:GLY:HA3	4:D:154:TYR:CZ	2.50	0.47
1:B:11:LYS:NZ	1:B:36:HIS:HB3	2.28	0.47
1:B:120:MET:O	1:B:123:SER:OG	2.29	0.47
1:B:300:ILE:O	1:B:322:PHE:HB3	2.14	0.47
1:B:330:THR:HG22	1:B:334:HIS:HE1	1.78	0.47
1:B:926:GLN:O	1:B:929:MET:HB3	2.14	0.47
1:B:1231:TYR:CE2	1:B:1243:TYR:HE2	2.26	0.47
1:F:643:TRP:CZ3	1:F:683:MET:HE1	2.46	0.47
1:F:749:LYS:HG3	1:F:752:LEU:HB2	1.95	0.47
1:F:796:LEU:HA	1:F:799:ASN:HD22	1.80	0.47
1:F:814:GLY:O	1:F:817:LEU:HG	2.14	0.47
1:F:887:SER:O	1:F:890:LEU:HB3	2.15	0.47
1:F:1117:GLU:CD	1:F:1120:LEU:HG	2.39	0.47
1:F:1273:TRP:CD2	1:F:1297:LYS:HD3	2.50	0.47
1:F:1407:LYS:HG3	1:F:1426:MET:SD	2.55	0.47
1:F:1438:PRO:HB2	1:F:1441:TYR:CB	2.44	0.47
3:A:11:ALA:HA	3:A:21:LEU:HD11	1.95	0.47
3:A:167:ASP:OD1	3:A:168:HIS:N	2.48	0.47
3:A:412:PRO:HB2	3:A:415:ARG:HB3	1.96	0.47
1:B:5:ILE:HB	1:B:40:MET:HB3	1.96	0.47
1:B:13:GLY:O	1:B:35:VAL:N	2.35	0.47
1:B:137:PRO:HB2	1:B:140:GLU:OE1	2.14	0.47
1:B:263:GLY:N	1:B:267:MET:O	2.30	0.47
1:B:467:GLU:OE1	1:B:534:ARG:NH1	2.48	0.47
1:B:591:THR:O	1:B:595:MET:HG3	2.14	0.47
1:B:669:LEU:O	1:B:673:LEU:HG	2.14	0.47
1:B:954:VAL:O	1:B:958:ILE:HG12	2.14	0.47
1:B:1327:THR:HA	1:B:1331:LYS:NZ	2.30	0.47
1:B:1372:PHE:HB3	1:B:1376:LEU:HB2	1.95	0.47
1:B:1617:PRO:HA	1:B:1620:GLU:HG3	1.95	0.47
1:F:875:ARG:HG2	1:F:924:HIS:NE2	2.29	0.47
1:F:1145:HIS:O	1:F:1148:GLU:HG3	2.15	0.47
1:F:1380:ILE:HB	1:F:1504:VAL:HG12	1.96	0.47
2:G:118:ASP:OD1	2:G:118:ASP:N	2.48	0.47
3:E:576:TYR:CB	3:E:598:GLU:HA	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:113:ASP:OD1	3:A:115:THR:OG1	2.32	0.47
3:A:265:ILE:HA	3:A:268:GLN:HG2	1.96	0.47
3:A:529:GLN:CG	3:A:534:LEU:HD11	2.43	0.47
4:D:78:PHE:CE2	4:D:105:CYS:HB2	2.41	0.47
1:B:225:TYR:OH	1:B:278:GLN:NE2	2.41	0.47
1:B:226:VAL:O	1:B:278:GLN:HG2	2.14	0.47
1:B:800:MET:O	1:B:804:ARG:HG3	2.14	0.47
1:B:1033:MET:H	1:B:1035:GLN:NE2	2.12	0.47
1:B:1198:SER:O	1:B:1199:SER:C	2.58	0.47
1:B:1410:SER:O	1:B:1413:PRO:HD2	2.15	0.47
2:C:17:THR:OG1	2:C:18:CYS:N	2.46	0.47
1:F:170:GLY:C	1:F:172:ILE:H	2.21	0.47
1:F:549:VAL:N	1:F:572:TYR:O	2.44	0.47
1:F:1028:LEU:HD12	1:F:1043:TRP:CH2	2.49	0.47
1:F:1303:GLU:O	1:F:1306:SER:HB2	2.15	0.47
1:F:1360:PRO:HG2	1:F:1362:TYR:HE1	1.80	0.47
3:E:531:ARG:HD3	3:E:532:PRO:HD3	1.95	0.47
3:E:587:HIS:HD1	3:E:606:ASP:CG	2.22	0.47
3:E:690:LEU:O	3:E:694:ILE:HG12	2.15	0.47
3:A:26:GLN:NE2	3:A:66:ARG:O	2.48	0.47
3:A:127:SER:O	3:A:130:THR:HB	2.13	0.47
3:A:588:TYR:HE1	3:A:608:LEU:HB2	1.79	0.47
3:A:599:VAL:HG23	3:A:601:HIS:HD2	1.78	0.47
3:A:617:VAL:HG23	3:A:643:SER:HB2	1.96	0.47
3:A:673:LEU:HB3	3:A:675:LYS:NZ	2.30	0.47
1:B:48:TYR:HA	1:B:55:LYS:O	2.15	0.47
1:B:51:GLN:H	1:B:51:GLN:CD	2.21	0.47
1:B:179:SER:OG	1:B:182:ALA:HB3	2.14	0.47
1:B:258:TYR:HA	1:B:488:ALA:HB3	1.97	0.47
1:B:394:HIS:HD1	1:B:394:HIS:H	1.61	0.47
1:B:442:VAL:HA	1:B:629:THR:OG1	2.14	0.47
1:B:568:ASP:CG	1:B:592:LYS:HG3	2.39	0.47
1:B:595:MET:HE1	1:B:615:SER:OG	2.15	0.47
1:B:806:LEU:HG	1:B:810:VAL:HB	1.96	0.47
1:B:866:SER:C	1:B:868:LEU:H	2.22	0.47
1:B:932:LEU:N	1:B:935:ARG:HH21	2.12	0.47
1:B:1009:MET:O	1:B:1012:THR:OG1	2.25	0.47
1:B:1117:GLU:OE2	1:B:1120:LEU:N	2.48	0.47
1:B:1144:PHE:O	1:B:1147:PHE:HB3	2.14	0.47
1:B:1156:ASP:OD2	1:B:1242:ARG:NH2	2.39	0.47
1:F:220:HIS:CE1	1:F:286:SER:HB3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:228:PHE:HE2	1:F:399:LEU:HB2	1.79	0.47
1:F:293:ARG:HH21	1:F:295:SER:HB3	1.80	0.47
1:F:351:ILE:HG12	1:F:382:VAL:HG11	1.95	0.47
1:F:810:VAL:HG23	1:F:852:LEU:HD11	1.96	0.47
1:F:882:LEU:HA	1:F:885:GLN:NE2	2.30	0.47
1:F:1174:LYS:HE2	1:F:1174:LYS:HB3	1.62	0.47
1:F:1529:ILE:O	1:F:1533:VAL:HG23	2.15	0.47
1:F:1536:HIS:CD2	1:F:1542:LEU:HB3	2.50	0.47
3:A:104:LEU:HD21	3:A:158:THR:N	2.30	0.47
3:A:189:ASN:HA	3:A:227:GLN:OE1	2.14	0.47
3:A:588:TYR:CE1	3:A:608:LEU:HB2	2.50	0.47
4:D:18:CYS:HA	4:D:29:PRO:HG2	1.97	0.47
4:D:120:ARG:HH12	4:D:156:GLU:CD	2.23	0.47
1:B:32:GLY:HA2	3:A:700:ASP:HB2	1.96	0.47
1:B:44:TRP:CE3	1:B:58:ILE:HG22	2.50	0.47
1:B:696:ALA:O	1:B:700:ILE:HG13	2.15	0.47
1:B:783:ASP:O	1:B:786:GLU:HG3	2.13	0.47
1:B:1470:LYS:HD3	1:B:1483:TRP:CG	2.50	0.47
1:F:30:GLN:HB3	3:E:697:ARG:HE	1.80	0.47
1:F:890:LEU:HD11	1:F:935:ARG:C	2.40	0.47
1:F:915:ARG:HE	1:F:916:LYS:H	1.63	0.47
1:F:943:MET:HG3	1:F:950:ILE:HD12	1.96	0.47
1:F:1279:VAL:HB	1:F:1281:HIS:ND1	2.30	0.47
1:F:1506:GLN:HE22	1:F:1508:SER:HG	1.54	0.47
2:G:63:ASP:OD1	2:G:63:ASP:N	2.47	0.47
2:G:113:VAL:HA	2:G:155:LEU:O	2.15	0.47
2:G:157:CYS:HB2	2:G:163:ARG:O	2.15	0.47
3:A:334:ALA:HB3	3:A:400:LEU:HD21	1.96	0.47
3:A:428:LEU:HD21	3:A:455:PHE:CZ	2.50	0.47
3:A:537:LYS:HB2	3:A:694:ILE:HD13	1.95	0.47
1:B:94:THR:HG22	1:B:98:TRP:CE2	2.50	0.47
1:B:717:GLU:O	1:B:721:TYR:HD2	1.97	0.47
1:B:1027:VAL:HG13	1:B:1028:LEU:HD22	1.96	0.47
1:B:1038:PHE:C	1:B:1039:GLU:HG2	2.40	0.47
1:B:1186:LEU:HD12	1:B:1189:SER:HB2	1.96	0.47
1:B:1483:TRP:NE1	1:B:1514:PRO:HD3	2.29	0.47
1:B:1623:SER:HB3	1:B:1627:ARG:NH1	2.30	0.47
1:F:220:HIS:HD1	1:F:286:SER:HB3	1.79	0.47
1:F:754:PHE:CD1	1:F:811:LYS:HD3	2.50	0.47
1:F:969:TYR:CG	1:F:1023:GLN:HG3	2.50	0.47
1:F:1166:GLU:HA	1:F:1169:LYS:CE	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1209:THR:O	1:F:1213:GLN:HB3	2.14	0.47
1:F:1230:PHE:O	1:F:1234:LYS:HG2	2.15	0.47
1:F:1248:ARG:NH1	1:F:1252:ARG:HH22	2.13	0.47
1:F:1276:LYS:HD2	1:F:1277:PRO:HD2	1.97	0.47
2:G:151:ALA:O	2:G:153:LYS:N	2.48	0.47
3:A:202:LEU:HB3	3:A:242:TYR:HB3	1.97	0.47
3:A:576:TYR:HB2	3:A:598:GLU:CG	2.44	0.47
3:A:695:LYS:O	3:A:698:LEU:HG	2.14	0.47
1:B:226:VAL:HG22	1:B:403:LEU:HD22	1.97	0.47
1:B:406:LEU:HD11	1:B:420:LEU:HD12	1.97	0.47
1:B:741:VAL:HG21	1:B:798:PHE:CD1	2.49	0.47
1:B:1232:LYS:HB2	1:B:1240:TYR:CE2	2.49	0.47
2:C:43:ASN:HA	2:C:52:ASN:HA	1.96	0.47
1:F:329:ILE:O	1:F:333:ILE:N	2.39	0.47
1:F:658:MET:N	1:F:658:MET:SD	2.88	0.47
1:F:883:THR:OG1	1:F:931:ARG:NH2	2.48	0.47
1:F:1033:MET:HB2	1:F:1035:GLN:HG3	1.97	0.47
2:G:42:ALA:O	2:G:53:LEU:HG	2.15	0.47
3:E:642:PHE:CZ	3:E:654:PHE:HB2	2.50	0.47
3:E:695:LYS:HG2	3:E:698:LEU:HD21	1.96	0.47
3:A:448:HIS:HB2	3:A:499:LEU:HD21	1.96	0.47
4:D:126:LEU:HD23	4:D:136:PRO:HG2	1.96	0.47
1:B:4:TRP:CE2	1:B:46:ARG:HD3	2.50	0.46
1:B:10:GLN:NE2	1:B:40:MET:HB2	2.30	0.46
1:B:141:LEU:O	1:B:145:LYS:HG3	2.15	0.46
1:B:222:TYR:HB2	1:B:284:LEU:HB2	1.97	0.46
1:B:306:MET:HG3	1:B:318:LEU:HD13	1.97	0.46
1:B:318:LEU:HB3	1:B:320:ARG:NH1	2.30	0.46
1:B:806:LEU:HD22	1:B:851:GLN:CD	2.40	0.46
1:B:860:MET:HG3	1:B:905:LEU:HD11	1.97	0.46
1:B:1117:GLU:OE1	1:B:1118:VAL:N	2.48	0.46
1:B:1367:TYR:HB2	1:B:1376:LEU:O	2.15	0.46
1:B:1391:ARG:NH2	2:C:29:PRO:HD3	2.29	0.46
1:B:1408:MET:N	1:B:1426:MET:O	2.37	0.46
2:C:137:ILE:HG23	2:C:141:GLN:CG	2.45	0.46
1:F:945:ARG:HH11	1:F:946:GLN:H	1.63	0.46
1:F:1114:LEU:HD23	1:F:1168:TYR:CE1	2.50	0.46
1:F:1329:GLU:HB3	1:F:1338:LEU:HD11	1.97	0.46
1:F:1451:LEU:HB3	1:F:1455:ARG:NH2	2.27	0.46
3:E:670:ASN:HB2	3:E:678:MET:HE1	1.96	0.46
3:A:157:PHE:O	3:A:160:THR:OG1	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:295:TYR:CZ	3:A:438:CYS:HB2	2.49	0.46
3:A:692:MET:O	3:A:695:LYS:HB3	2.15	0.46
1:B:457:LYS:HD3	1:B:505:LYS:HD2	1.98	0.46
1:B:466:VAL:O	1:B:500:VAL:HA	2.14	0.46
1:B:1404:ASN:HB2	1:B:1406:GLU:OE2	2.14	0.46
1:F:106:TYR:HA	1:F:111:LEU:HD11	1.96	0.46
1:F:163:LEU:HD13	1:F:1005:ASP:O	2.14	0.46
1:F:332:ILE:CG2	1:F:403:LEU:HB3	2.45	0.46
1:F:842:LYS:O	1:F:846:SER:N	2.46	0.46
1:F:866:SER:OG	1:F:867:THR:HG23	2.15	0.46
1:F:915:ARG:HE	1:F:916:LYS:N	2.13	0.46
1:F:1206:ASP:O	1:F:1209:THR:HG22	2.15	0.46
3:E:562:PHE:HB2	3:E:575:TRP:CZ2	2.49	0.46
3:E:613:ILE:HA	3:E:645:LEU:O	2.15	0.46
3:A:555:ARG:HA	3:A:558:GLU:HG3	1.97	0.46
4:D:14:VAL:HA	4:D:83:SER:HB2	1.97	0.46
1:B:101:ILE:O	1:B:105:LEU:HG	2.15	0.46
1:B:109:ASN:HA	1:B:111:LEU:HG	1.97	0.46
1:B:143:GLU:HA	1:B:146:LYS:HE2	1.98	0.46
1:B:246:TYR:HE2	1:B:387:ILE:HD11	1.81	0.46
1:B:410:LEU:O	1:B:414:GLN:HB2	2.16	0.46
1:B:478:LYS:HB3	1:B:478:LYS:HE3	1.77	0.46
1:B:1371:GLY:C	1:B:1424:GLN:HE21	2.24	0.46
1:F:228:PHE:HA	1:F:401:VAL:HG12	1.97	0.46
1:F:716:LEU:O	1:F:720:ILE:HG13	2.16	0.46
1:F:821:PRO:O	1:F:824:ILE:HG12	2.16	0.46
1:F:857:LEU:O	1:F:861:THR:OG1	2.26	0.46
1:F:1362:TYR:HD2	1:F:1462:PHE:CE2	2.29	0.46
1:F:1575:TYR:O	1:F:1579:HIS:N	2.32	0.46
2:G:8:VAL:HA	2:G:79:LEU:O	2.16	0.46
2:G:114:GLY:N	2:G:155:LEU:O	2.37	0.46
3:E:695:LYS:O	3:E:698:LEU:HG	2.16	0.46
3:A:639:GLU:CD	3:A:639:GLU:H	2.21	0.46
4:D:129:LEU:HD12	4:D:136:PRO:HG3	1.96	0.46
1:B:634:ASN:O	1:B:638:LEU:HD23	2.15	0.46
1:B:795:PHE:CZ	1:B:843:PHE:HB2	2.50	0.46
1:B:853:VAL:HA	1:B:856:LYS:HG2	1.97	0.46
1:B:940:VAL:HG11	1:B:957:MET:HE1	1.97	0.46
1:B:1256:ASN:OD1	1:B:1500:LYS:HE2	2.15	0.46
1:B:1318:ILE:O	1:B:1322:LYS:HG2	2.15	0.46
1:B:1433:PRO:HA	1:B:1462:PHE:CD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:197:LYS:HA	1:F:200:GLU:CD	2.40	0.46
1:F:320:ARG:NH1	1:F:500:VAL:HB	2.31	0.46
1:F:485:HIS:O	1:F:514:LYS:N	2.47	0.46
1:F:713:ASN:HA	1:F:716:LEU:HD12	1.97	0.46
1:F:940:VAL:HA	1:F:943:MET:HE2	1.98	0.46
1:F:1114:LEU:HA	1:F:1168:TYR:CZ	2.51	0.46
1:F:1519:ILE:HG13	1:F:1589:LEU:HD21	1.97	0.46
1:F:1545:HIS:N	1:F:1546:PRO:HD2	2.31	0.46
3:E:693:GLU:OE2	3:E:697:ARG:HD3	2.14	0.46
3:A:225:ILE:HG21	3:A:265:ILE:CG2	2.46	0.46
3:A:479:LYS:O	3:A:483:VAL:HG23	2.16	0.46
3:A:613:ILE:HA	3:A:645:LEU:O	2.16	0.46
3:A:702:GLU:C	3:A:704:ILE:H	2.22	0.46
4:D:119:LEU:HB3	4:D:125:THR:OG1	2.16	0.46
1:B:182:ALA:HA	1:B:185:LYS:HG2	1.97	0.46
1:B:256:GLU:OE1	1:B:429:ARG:N	2.30	0.46
1:B:469:THR:HG23	1:B:497:LYS:HD3	1.97	0.46
1:B:823:ILE:O	1:B:827:VAL:HG23	2.16	0.46
1:B:933:LEU:HD21	1:B:960:LEU:HD22	1.98	0.46
1:B:1299:LYS:HA	1:B:1302:GLN:OE1	2.16	0.46
1:B:1466:ARG:O	1:B:1484:ILE:HA	2.16	0.46
1:B:1632:LYS:O	1:B:1637:TYR:N	2.28	0.46
1:F:87:LEU:O	1:F:90:GLU:HG3	2.16	0.46
1:F:88:VAL:CG2	1:F:128:ARG:HG2	2.46	0.46
1:F:230:ASN:ND2	1:F:268:PRO:HD3	2.31	0.46
1:F:601:GLN:HA	1:F:604:LYS:HG2	1.97	0.46
1:F:833:PRO:HD2	1:F:873:GLU:OE2	2.15	0.46
1:F:1495:PHE:HZ	1:F:1502:PHE:HB2	1.81	0.46
3:A:79:THR:OG1	3:A:84:ASN:OD1	2.33	0.46
3:A:679:SER:O	3:A:682:THR:HB	2.16	0.46
4:D:84:ILE:HG12	4:D:137:ILE:HB	1.98	0.46
1:B:1189:SER:O	1:B:1192:VAL:HG22	2.15	0.46
1:B:1268:ALA:HA	1:B:1271:LEU:HD13	1.98	0.46
2:C:129:LEU:O	2:C:134:LEU:N	2.48	0.46
1:F:5:ILE:H	1:F:40:MET:N	2.06	0.46
1:F:11:LYS:HZ1	1:F:36:HIS:C	2.23	0.46
1:F:181:ILE:HD11	1:F:955:ALA:O	2.16	0.46
1:F:306:MET:H	1:F:314:HIS:CB	2.27	0.46
1:F:669:LEU:HD12	1:F:670:GLN:N	2.30	0.46
1:F:1132:MET:O	1:F:1135:GLU:HB2	2.16	0.46
1:F:1602:GLU:HA	1:F:1605:ARG:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:115:THR:HG22	4:D:157:CYS:SG	2.56	0.46
1:B:448:VAL:HB	1:B:513:VAL:HG23	1.97	0.46
1:B:1003:ALA:H	1:B:1006:TRP:HZ3	1.58	0.46
1:B:1034:ASP:HA	1:B:1037:SER:HA	1.96	0.46
1:B:1175:LEU:HB3	1:B:1179:HIS:CE1	2.51	0.46
1:B:1256:ASN:O	1:B:1259:GLU:N	2.48	0.46
1:B:1363:PHE:O	1:B:1382:ILE:HD12	2.15	0.46
1:B:1451:LEU:HG	1:B:1455:ARG:HH12	1.81	0.46
1:B:1491:THR:HA	1:B:1505:LYS:H	1.80	0.46
1:B:1516:GLU:O	1:B:1517:ASN:C	2.58	0.46
1:F:113:LEU:HA	1:F:116:GLN:CD	2.40	0.46
1:F:329:ILE:HA	1:F:332:ILE:HD12	1.98	0.46
1:F:646:ASN:ND2	1:F:649:ASN:HB2	2.31	0.46
1:F:668:PHE:O	1:F:672:THR:N	2.38	0.46
1:F:800:MET:O	1:F:804:ARG:N	2.47	0.46
1:F:1135:GLU:O	1:F:1139:SER:OG	2.25	0.46
2:G:68:ARG:NH1	2:G:96:LYS:HZ1	2.14	0.46
3:E:694:ILE:HA	3:E:697:ARG:HG2	1.97	0.46
1:B:65:HIS:HE1	1:B:67:LYS:HD2	1.81	0.46
1:B:113:LEU:HA	1:B:116:GLN:CD	2.41	0.46
1:B:306:MET:O	1:B:320:ARG:HG3	2.15	0.46
1:B:378:PRO:HB3	1:B:508:CYS:SG	2.55	0.46
1:B:527:ILE:HB	1:B:552:VAL:HG12	1.96	0.46
1:B:534:ARG:HH21	1:B:541:ASP:CG	2.24	0.46
1:B:928:ILE:O	1:B:932:LEU:HB2	2.15	0.46
1:F:197:LYS:HA	1:F:200:GLU:HG2	1.96	0.46
1:F:651:LYS:HD2	1:F:655:LYS:HE3	1.96	0.46
1:F:956:CYS:O	1:F:960:LEU:HG	2.14	0.46
1:F:1201:LEU:O	1:F:1205:LEU:HD23	2.16	0.46
2:G:35:THR:OG1	2:G:40:TYR:OH	2.34	0.46
3:E:551:GLN:O	3:E:555:ARG:HD3	2.16	0.46
3:E:720:TYR:HB3	3:E:722:PHE:CE1	2.50	0.46
3:A:359:LEU:O	3:A:412:PRO:HB3	2.16	0.46
3:A:458:ILE:HD11	3:A:503:LYS:HA	1.98	0.46
1:B:19:TYR:HB3	1:B:27:LEU:O	2.15	0.46
1:B:107:VAL:HA	3:A:555:ARG:HH12	1.81	0.46
1:B:222:TYR:HD1	1:B:407:PRO:HA	1.80	0.46
1:B:1035:GLN:HG2	1:B:1036:ALA:H	1.81	0.46
1:B:1394:PHE:HD2	1:B:1428:CYS:HG	1.64	0.46
1:B:1623:SER:HB3	1:B:1627:ARG:CZ	2.46	0.46
2:C:86:SER:O	2:C:89:SER:OG	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:96:ARG:O	1:F:99:ALA:HB3	2.16	0.46
1:F:246:TYR:HB3	1:F:297:VAL:HG21	1.98	0.46
1:F:1068:LYS:O	1:F:1072:ILE:HG12	2.15	0.46
1:F:1557:PRO:HG2	1:F:1561:GLY:HA2	1.97	0.46
2:G:47:ASP:O	2:G:49:LYS:N	2.43	0.46
3:A:37:VAL:HG12	3:A:77:LEU:HD22	1.97	0.46
1:B:13:GLY:O	1:B:34:THR:HA	2.16	0.46
1:B:242:PHE:O	1:B:298:CYS:HA	2.15	0.46
1:B:325:ALA:HB2	1:B:348:PHE:HD1	1.80	0.46
1:B:640:LEU:HD11	1:B:657:LEU:HD21	1.98	0.46
1:B:1156:ASP:O	1:B:1160:GLU:HG3	2.16	0.46
1:B:1358:PRO:HB2	1:B:1387:GLU:HB2	1.98	0.46
1:B:1545:HIS:HD2	2:C:5:LYS:CE	2.27	0.46
1:B:1613:GLU:CD	1:B:1614:GLN:HG3	2.40	0.46
1:F:860:MET:O	1:F:864:VAL:HG12	2.16	0.46
1:F:1617:PRO:O	1:F:1620:GLU:HG3	2.16	0.46
3:E:634:ASN:O	3:E:637:VAL:HG22	2.16	0.46
3:A:545:LEU:HD12	3:A:546:GLU:N	2.31	0.46
3:A:576:TYR:HB2	3:A:598:GLU:HG2	1.97	0.46
4:D:78:PHE:CE2	4:D:101:VAL:HB	2.51	0.46
1:B:128:ARG:NH1	1:B:132:LEU:HD21	2.31	0.45
1:B:651:LYS:HB2	1:B:655:LYS:HE3	1.97	0.45
1:B:757:LEU:HD13	1:B:760:LEU:HD11	1.98	0.45
1:B:1105:MET:O	1:B:1108:PRO:HD2	2.15	0.45
1:B:1193:PHE:HA	1:B:1196:LEU:HD12	1.97	0.45
1:B:1386:LYS:HD3	1:B:1386:LYS:HA	1.79	0.45
1:B:1575:TYR:O	1:B:1579:HIS:N	2.27	0.45
1:F:31:ILE:HG21	3:E:698:LEU:HA	1.97	0.45
1:F:721:TYR:C	1:F:722:LYS:HD3	2.41	0.45
1:F:764:PHE:CE1	1:F:826:ASP:HB2	2.51	0.45
1:F:879:LEU:HD21	1:F:931:ARG:HH12	1.82	0.45
1:F:948:PRO:C	1:F:950:ILE:H	2.24	0.45
1:F:1283:LEU:HB3	1:F:1288:TYR:CD1	2.51	0.45
1:F:1535:GLN:OE1	1:F:1542:LEU:HD11	2.16	0.45
3:E:625:MET:HE1	3:E:633:GLN:O	2.16	0.45
3:A:240:GLN:HA	3:A:243:THR:HG22	1.97	0.45
3:A:328:ARG:NE	3:A:329:ARG:HH21	2.11	0.45
3:A:526:GLU:CB	3:A:531:ARG:H	2.29	0.45
4:D:98:HIS:HA	4:D:101:VAL:HG22	1.99	0.45
1:B:25:VAL:HG23	1:B:57:GLY:HA2	1.97	0.45
1:B:901:ALA:HA	1:B:904:GLN:NE2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:914:ASP:HB2	1:B:963:GLN:NE2	2.31	0.45
1:B:1068:LYS:O	1:B:1072:ILE:HG12	2.15	0.45
1:B:1610:LYS:HD2	1:B:1610:LYS:N	2.31	0.45
2:C:80:ILE:HD11	2:C:97:TRP:HB3	1.97	0.45
2:C:87:PRO:O	2:C:90:PHE:HB2	2.16	0.45
1:F:1218:GLU:O	1:F:1221:MET:HB2	2.16	0.45
1:F:1478:GLU:OE2	1:F:1478:GLU:N	2.41	0.45
1:F:1504:VAL:HG22	1:F:1506:GLN:H	1.81	0.45
3:A:82:ALA:HB2	3:A:119:GLU:HG2	1.98	0.45
3:A:223:ILE:HD13	3:A:246:VAL:CG1	2.46	0.45
3:A:523:MET:O	3:A:526:GLU:HG2	2.16	0.45
3:A:591:LEU:HD21	3:A:603:SER:HB2	1.97	0.45
3:A:613:ILE:HD12	3:A:644:ILE:HG22	1.97	0.45
1:B:382:VAL:O	1:B:386:VAL:HG23	2.17	0.45
1:B:532:ARG:NH1	1:B:541:ASP:O	2.46	0.45
1:B:809:ALA:O	1:B:810:VAL:C	2.59	0.45
1:B:934:ARG:HH12	1:B:938:ARG:H	1.64	0.45
1:B:934:ARG:HB3	1:B:935:ARG:NH1	2.31	0.45
1:B:1292:THR:O	1:B:1295:GLU:N	2.48	0.45
1:B:1390:ARG:HB2	2:C:166:LYS:NZ	2.31	0.45
1:B:1518:ALA:HB1	1:B:1566:TYR:CE1	2.50	0.45
2:C:97:TRP:O	2:C:101:VAL:HG22	2.16	0.45
1:F:3:ARG:HA	3:E:723:VAL:HG23	1.98	0.45
1:F:207:ASN:C	1:F:208:LEU:HD12	2.42	0.45
1:F:258:TYR:CE2	1:F:279:ALA:HB2	2.52	0.45
1:F:717:GLU:O	1:F:721:TYR:HD2	1.99	0.45
1:F:932:LEU:O	1:F:936:ILE:HG22	2.17	0.45
1:F:1220:ARG:HA	1:F:1223:CYS:SG	2.56	0.45
1:F:1238:ASP:HA	1:F:1241:ILE:HD12	1.98	0.45
1:F:1277:PRO:HA	1:F:1293:GLN:HG3	1.98	0.45
1:F:1444:LYS:O	1:F:1446:VAL:N	2.44	0.45
3:A:11:ALA:HB3	3:A:74:ILE:HA	1.97	0.45
3:A:72:GLY:HA2	4:D:36:VAL:HG11	1.98	0.45
3:A:96:SER:OG	3:A:99:ALA:HB3	2.16	0.45
3:A:104:LEU:HD11	3:A:158:THR:HA	1.97	0.45
3:A:140:TYR:HD1	3:A:144:GLN:HB3	1.81	0.45
3:A:272:ARG:HH21	3:A:449:ASP:CG	2.25	0.45
3:A:299:VAL:HA	3:A:302:PHE:HB2	1.98	0.45
3:A:328:ARG:CZ	3:A:351:MET:HE1	2.46	0.45
3:A:420:LEU:HD22	3:A:459:CYS:SG	2.57	0.45
3:A:425:CYS:HG	3:A:452:PHE:HE1	1.63	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:685:ASP:O	3:A:689:LEU:HG	2.15	0.45
4:D:72:TYR:CZ	4:D:101:VAL:HG12	2.50	0.45
1:B:127:TRP:CE3	1:B:148:VAL:HG12	2.52	0.45
1:B:883:THR:HA	1:B:886:LEU:HG	1.97	0.45
1:B:891:ASP:OD1	1:B:938:ARG:NH2	2.46	0.45
1:B:1262:TYR:HE2	1:B:1496:PRO:O	1.98	0.45
1:B:1324:LEU:HB3	1:B:1341:LEU:HD21	1.99	0.45
1:F:11:LYS:NZ	1:F:38:LEU:HD22	2.32	0.45
1:F:757:LEU:HD12	1:F:819:TYR:HB2	1.98	0.45
1:F:795:PHE:HA	1:F:798:PHE:CD2	2.52	0.45
1:F:969:TYR:CD1	1:F:1023:GLN:HG3	2.51	0.45
1:F:1013:GLN:HA	1:F:1016:VAL:HG22	1.97	0.45
1:F:1628:GLU:O	1:F:1631:GLU:HG3	2.17	0.45
3:E:561:CYS:SG	3:E:597:GLY:HA2	2.56	0.45
3:A:166:MET:HB3	3:A:173:TRP:CZ3	2.50	0.45
3:A:180:PHE:HE1	3:A:204:ILE:HD13	1.82	0.45
3:A:472:ALA:HB1	3:A:480:VAL:HG11	1.98	0.45
3:A:580:SER:HB3	3:A:585:VAL:HG13	1.99	0.45
4:D:4:ILE:HG23	4:D:76:ASN:HB2	1.98	0.45
1:B:35:VAL:O	1:B:37:ILE:HG13	2.16	0.45
1:B:285:SER:H	1:B:288:ASP:CB	2.23	0.45
1:B:384:ASN:HA	1:B:387:ILE:HD12	1.98	0.45
1:B:871:GLN:CG	1:B:875:ARG:HD3	2.43	0.45
1:B:1115:THR:HA	1:B:1163:ARG:HH21	1.81	0.45
1:B:1516:GLU:HA	1:B:1519:ILE:HD12	1.98	0.45
1:B:1557:PRO:HB2	1:B:1560:MET:O	2.17	0.45
1:B:1557:PRO:HD3	1:B:1563:PHE:HE2	1.82	0.45
2:C:82:PHE:CD1	2:C:112:LEU:HD11	2.51	0.45
1:F:166:ARG:HH21	1:F:169:ASN:ND2	2.11	0.45
1:F:179:SER:OG	1:F:182:ALA:HB3	2.17	0.45
1:F:338:ASP:OD1	1:F:338:ASP:N	2.45	0.45
1:F:451:ILE:HD12	1:F:621:GLN:HG2	1.99	0.45
1:F:501:TYR:CE2	1:F:509:TRP:HD1	2.34	0.45
1:F:1145:HIS:HA	1:F:1148:GLU:HG3	1.98	0.45
1:F:1596:GLN:O	1:F:1600:LEU:HG	2.17	0.45
1:B:263:GLY:HA3	1:B:267:MET:SD	2.56	0.45
1:B:649:ASN:O	1:B:653:ASN:N	2.28	0.45
1:B:1519:ILE:HG23	1:B:1592:LEU:HD11	1.99	0.45
1:F:91:LEU:O	1:F:95:LEU:HG	2.16	0.45
1:F:285:SER:N	1:F:288:ASP:OD2	2.30	0.45
1:F:331:ASP:HB2	1:F:336:LYS:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:345:PHE:HZ	1:F:394:HIS:CD2	2.35	0.45
1:F:718:THR:O	1:F:722:LYS:HB2	2.17	0.45
1:F:743:ASN:O	1:F:749:LYS:HD2	2.16	0.45
1:F:871:GLN:NE2	1:F:875:ARG:HD3	2.31	0.45
1:F:1237:GLU:O	1:F:1240:TYR:HB3	2.17	0.45
1:F:1249:ASP:HA	1:F:1252:ARG:NH2	2.32	0.45
1:F:1292:THR:HG23	1:F:1295:GLU:H	1.82	0.45
2:G:5:LYS:HD2	2:G:74:GLN:O	2.15	0.45
3:E:531:ARG:O	3:E:535:GLU:HG3	2.17	0.45
3:E:581:PRO:HA	3:E:583:HIS:CE1	2.52	0.45
3:E:688:THR:O	3:E:691:SER:OG	2.27	0.45
3:A:86:GLN:HA	3:A:89:HIS:ND1	2.32	0.45
3:A:141:GLN:HA	3:A:144:GLN:CG	2.46	0.45
3:A:238:GLU:O	3:A:241:THR:OG1	2.24	0.45
3:A:419:GLU:OE1	3:A:481:MET:HG2	2.16	0.45
1:B:1082:GLU:O	1:B:1086:ARG:HG2	2.16	0.45
1:B:1190:GLY:HA2	1:B:1193:PHE:CD2	2.51	0.45
2:C:3:ALA:HA	2:C:52:ASN:O	2.17	0.45
2:C:61:GLN:HB3	2:C:64:TYR:CD1	2.51	0.45
1:F:333:ILE:HG13	1:F:334:HIS:N	2.32	0.45
1:F:797:ALA:O	1:F:801:LEU:HG	2.17	0.45
3:E:564:LYS:HG3	3:E:575:TRP:CE2	2.51	0.45
3:E:702:GLU:C	3:E:704:ILE:H	2.23	0.45
3:A:41:TRP:HD1	3:A:43:LEU:HD21	1.82	0.45
3:A:328:ARG:O	3:A:332:PHE:HB2	2.17	0.45
3:A:514:ILE:HA	3:A:517:ILE:HD12	1.99	0.45
3:A:659:LYS:O	3:A:662:TYR:HB3	2.17	0.45
4:D:18:CYS:HA	4:D:29:PRO:HD2	1.98	0.45
4:D:27:ALA:O	4:D:29:PRO:HD3	2.17	0.45
4:D:37:PHE:HB2	4:D:58:THR:HA	1.97	0.45
1:B:99:ALA:HA	1:B:102:TRP:NE1	2.32	0.45
1:B:662:GLY:HA2	1:B:703:LEU:HD21	1.99	0.45
1:B:666:VAL:HB	1:B:712:PHE:CE2	2.52	0.45
1:B:700:ILE:O	1:B:704:ILE:HG13	2.17	0.45
1:B:730:TYR:CD1	1:B:771:ARG:HB2	2.52	0.45
1:B:893:ASN:O	1:B:896:LYS:NZ	2.50	0.45
1:B:901:ALA:HA	1:B:904:GLN:HE21	1.82	0.45
1:B:1033:MET:HB2	1:B:1035:GLN:OE1	2.17	0.45
1:B:1080:ARG:HA	1:B:1083:ILE:HD12	1.99	0.45
1:B:1354:LYS:HD2	1:B:1355:ALA:N	2.32	0.45
1:B:1462:PHE:O	1:B:1489:TYR:N	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1628:GLU:O	1:B:1631:GLU:HG3	2.17	0.45
1:F:247:ASP:O	1:F:251:SER:N	2.49	0.45
1:F:344:HIS:CG	1:F:403:LEU:HD12	2.52	0.45
1:F:710:GLN:HA	1:F:713:ASN:HD22	1.82	0.45
1:F:1119:GLU:O	1:F:1122:LYS:N	2.50	0.45
2:G:45:MET:HA	2:G:51:VAL:HG22	1.98	0.45
3:A:94:SER:O	3:A:100:LYS:HD2	2.16	0.45
3:A:259:ARG:HB3	3:A:304:LEU:HD21	1.98	0.45
3:A:530:SER:O	3:A:534:LEU:N	2.49	0.45
3:A:612:ASP:O	3:A:646:TYR:HA	2.16	0.45
1:B:529:PHE:O	1:B:549:VAL:HG13	2.17	0.45
1:B:534:ARG:NE	1:B:541:ASP:OD1	2.40	0.45
1:B:1036:ALA:O	1:B:1038:PHE:N	2.49	0.45
1:B:1091:TRP:CD1	1:B:1127:ILE:HG23	2.52	0.45
1:B:1280:PRO:HB3	1:B:1288:TYR:OH	2.17	0.45
1:B:1391:ARG:HB3	1:B:1392:GLU:OE1	2.17	0.45
1:B:1404:ASN:OD1	1:B:1424:GLN:HB2	2.16	0.45
1:B:1597:MET:O	1:B:1601:THR:OG1	2.19	0.45
2:C:46:VAL:HG13	2:C:47:ASP:N	2.32	0.45
1:F:6:PRO:HG3	3:E:724:TYR:CD1	2.52	0.45
1:F:1183:HIS:HB3	1:F:1187:SER:OG	2.17	0.45
1:F:1485:GLU:N	1:F:1485:GLU:OE1	2.50	0.45
3:E:579:LEU:HD11	3:E:583:HIS:HA	1.99	0.45
3:E:639:GLU:H	3:E:639:GLU:CD	2.22	0.45
3:A:166:MET:SD	3:A:173:TRP:HA	2.57	0.45
3:A:307:ASP:HA	3:A:310:MET:HE3	1.99	0.45
1:B:1:MET:H1	3:A:716:GLU:HB3	1.82	0.45
1:B:287:MET:HE3	1:B:435:GLU:OE2	2.17	0.45
1:B:932:LEU:HA	1:B:935:ARG:HE	1.81	0.45
1:B:1127:ILE:HG22	1:B:1131:MET:HE1	1.98	0.45
1:B:1146:MET:HG2	1:B:1147:PHE:N	2.31	0.45
1:B:1231:TYR:CE2	1:B:1239:ILE:HD12	2.52	0.45
2:C:7:VAL:HB	2:C:78:PHE:CD2	2.52	0.45
2:C:93:VAL:HG13	2:C:94:ARG:N	2.32	0.45
1:F:262:TRP:HE1	1:F:266:GLY:HA2	1.82	0.45
1:F:325:ALA:HB2	1:F:348:PHE:HD1	1.82	0.45
1:F:566:ARG:HE	1:F:621:GLN:HE21	1.63	0.45
1:F:593:MET:HG3	1:F:594:GLU:N	2.32	0.45
1:F:656:LYS:HD2	1:F:659:GLU:HG3	1.99	0.45
1:F:668:PHE:O	1:F:672:THR:HG23	2.17	0.45
1:F:879:LEU:HD22	1:F:924:HIS:NE2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1483:TRP:CE3	1:F:1511:GLU:HG3	2.52	0.45
1:F:1604:ILE:CD1	1:F:1622:LEU:HB3	2.47	0.45
2:G:69:PRO:HB3	2:G:104:HIS:CD2	2.52	0.45
3:E:602:ASP:N	3:E:602:ASP:OD1	2.49	0.45
3:A:216:TYR:OH	3:A:254:ALA:HB2	2.17	0.45
3:A:476:ASP:O	3:A:480:VAL:HG12	2.17	0.45
3:A:608:LEU:HD12	3:A:608:LEU:HA	1.71	0.45
3:A:657:PRO:HB2	3:A:661:GLU:OE2	2.17	0.45
1:B:39:GLU:OE1	1:B:46:ARG:NE	2.50	0.44
1:B:231:PHE:CZ	1:B:233:CYS:HB3	2.52	0.44
1:B:501:TYR:OH	1:B:508:CYS:O	2.18	0.44
1:B:795:PHE:HZ	1:B:840:PHE:HA	1.82	0.44
1:B:921:THR:OG1	1:B:924:HIS:HB3	2.17	0.44
1:B:1300:LEU:HA	1:B:1303:GLU:OE1	2.16	0.44
1:F:80:VAL:HG11	1:F:133:SER:HA	1.98	0.44
1:F:105:LEU:HD13	1:F:110:LYS:HZ1	1.83	0.44
1:F:634:ASN:O	1:F:638:LEU:HD23	2.17	0.44
1:F:745:ASP:N	1:F:745:ASP:OD1	2.50	0.44
1:F:882:LEU:O	1:F:885:GLN:HG2	2.18	0.44
1:F:906:LEU:HG	1:F:910:LEU:HD23	1.99	0.44
1:F:1125:ILE:N	1:F:1126:PRO:HD2	2.32	0.44
1:F:1195:LEU:O	1:F:1198:SER:OG	2.33	0.44
2:G:42:ALA:HB3	2:G:53:LEU:HD11	1.97	0.44
3:A:89:HIS:HB3	3:A:123:LEU:HD11	2.00	0.44
3:A:180:PHE:O	3:A:184:ILE:HG12	2.16	0.44
1:B:31:ILE:HD12	3:A:697:ARG:HB2	1.99	0.44
1:B:44:TRP:CH2	1:B:60:PRO:HG3	2.53	0.44
1:B:227:ASN:ND2	1:B:278:GLN:HE21	2.15	0.44
1:B:322:PHE:O	1:B:350:GLN:HA	2.18	0.44
1:B:563:GLN:OE1	1:B:633:GLN:HB3	2.18	0.44
1:B:630:LYS:HG3	1:B:668:PHE:CZ	2.51	0.44
1:B:738:ASN:HA	1:B:741:VAL:HG12	1.98	0.44
1:B:932:LEU:CA	1:B:935:ARG:HE	2.30	0.44
1:B:1217:LYS:HD3	1:B:1217:LYS:N	2.32	0.44
1:B:1545:HIS:CD2	2:C:5:LYS:HE3	2.52	0.44
1:F:118:GLN:HB3	1:F:122:TYR:CZ	2.51	0.44
1:F:628:SER:OG	1:F:629:THR:N	2.49	0.44
1:F:843:PHE:O	1:F:847:ILE:HG13	2.17	0.44
1:F:1015:ARG:N	1:F:1079:MET:HE1	2.32	0.44
1:F:1177:LEU:HD22	1:F:1181:ARG:NH2	2.31	0.44
1:F:1284:GLN:OE1	1:F:1284:GLN:N	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:77:VAL:HG12	2:G:109:PRO:HG2	1.98	0.44
3:E:678:MET:N	3:E:678:MET:SD	2.90	0.44
3:A:419:GLU:OE1	3:A:481:MET:HE2	2.17	0.44
3:A:613:ILE:HD12	3:A:644:ILE:CG2	2.46	0.44
1:B:19:TYR:CB	1:B:59:PHE:HE1	2.29	0.44
1:B:29:LEU:HD12	1:B:59:PHE:CZ	2.53	0.44
1:B:59:PHE:HD2	1:B:64:ILE:HD13	1.82	0.44
1:B:95:LEU:HD23	1:B:98:TRP:CD1	2.52	0.44
1:B:706:ASP:OD1	1:B:707:ILE:N	2.51	0.44
1:B:771:ARG:HH22	1:B:784:GLY:CA	2.29	0.44
1:B:982:ILE:O	1:B:986:LEU:HD23	2.17	0.44
1:B:1015:ARG:O	1:B:1018:LEU:HB2	2.18	0.44
1:B:1125:ILE:HG21	1:B:1175:LEU:HG	1.99	0.44
1:B:1197:VAL:O	1:B:1200:LEU:HB2	2.16	0.44
1:B:1392:GLU:HA	1:B:1395:SER:HB3	1.99	0.44
1:B:1601:THR:CB	1:B:1605:ARG:HH21	2.28	0.44
2:C:83:SER:HB3	2:C:86:SER:HB3	2.00	0.44
2:C:100:GLU:O	2:C:104:HIS:ND1	2.40	0.44
1:F:31:ILE:HG13	3:E:536:LEU:HD22	1.99	0.44
1:F:109:ASN:OD1	3:E:555:ARG:NE	2.51	0.44
1:F:985:PHE:CD2	1:F:986:LEU:HD22	2.53	0.44
1:F:1435:MET:HE3	1:F:1436:SER:N	2.21	0.44
3:A:80:SER:O	3:A:84:ASN:ND2	2.50	0.44
4:D:7:VAL:H	4:D:75:THR:HG23	1.81	0.44
4:D:41:SER:HA	4:D:53:LEU:O	2.17	0.44
4:D:83:SER:HB3	4:D:86:SER:HB3	1.99	0.44
4:D:139:PRO:O	4:D:143:GLN:HB2	2.17	0.44
1:B:24:ASP:OD1	1:B:24:ASP:N	2.49	0.44
1:B:45:TYR:CD2	1:B:64:ILE:HG13	2.52	0.44
1:B:52:ASN:HB3	1:B:55:LYS:HE2	1.98	0.44
1:B:300:ILE:HB	1:B:322:PHE:HD2	1.82	0.44
1:B:470:MET:HA	1:B:529:PHE:HA	1.98	0.44
1:B:651:LYS:O	1:B:655:LYS:HG3	2.17	0.44
1:B:1129:PHE:CD1	1:B:1179:HIS:HB2	2.52	0.44
1:B:1560:MET:O	1:B:1560:MET:HG3	2.17	0.44
1:F:106:TYR:HB2	3:E:551:GLN:NE2	2.32	0.44
1:F:304:GLY:O	1:F:318:LEU:HB2	2.18	0.44
1:F:647:SER:HA	1:F:650:ILE:HD12	1.98	0.44
1:F:753:LEU:HD23	1:F:753:LEU:HA	1.74	0.44
1:F:835:GLU:HA	1:F:838:VAL:HG22	1.99	0.44
1:F:937:ASN:ND2	1:F:989:THR:HG22	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1166:GLU:O	1:F:1169:LYS:HG2	2.18	0.44
3:E:663:CYS:HB3	3:E:679:SER:OG	2.16	0.44
3:A:33:ILE:HG13	3:A:66:ARG:HH12	1.82	0.44
1:B:247:ASP:OD1	1:B:249:ASP:HB2	2.16	0.44
1:B:754:PHE:HB2	1:B:812:ILE:HG12	1.98	0.44
1:B:893:ASN:N	1:B:895:ASN:OD1	2.47	0.44
1:B:1440:SER:H	1:B:1442:LYS:HZ2	1.66	0.44
2:C:14:VAL:HG13	2:C:116:LYS:HZ3	1.82	0.44
1:F:242:PHE:CE2	1:F:259:LEU:HD13	2.52	0.44
1:F:470:MET:HB2	1:F:527:ILE:HG21	2.00	0.44
1:F:527:ILE:HB	1:F:552:VAL:HG12	2.00	0.44
1:F:910:LEU:O	1:F:913:LEU:HB2	2.18	0.44
1:F:985:PHE:O	1:F:989:THR:HG23	2.18	0.44
1:F:1322:LYS:HG2	1:F:1345:ARG:HH12	1.81	0.44
2:G:117:LEU:HD13	2:G:156:GLU:HG3	1.98	0.44
3:E:563:ARG:O	3:E:655:ILE:N	2.47	0.44
3:E:652:LEU:HD23	3:E:652:LEU:HA	1.78	0.44
3:E:679:SER:HB2	3:E:682:THR:OG1	2.18	0.44
3:A:485:LYS:O	3:A:489:MET:HG3	2.17	0.44
1:B:114:PHE:O	1:B:118:GLN:OE1	2.34	0.44
1:B:775:LEU:CD2	1:B:781:SER:HB2	2.48	0.44
1:B:800:MET:O	1:B:804:ARG:N	2.48	0.44
1:B:1384:ARG:HB2	1:B:1495:PHE:CD2	2.53	0.44
2:C:145:MET:O	2:C:148:GLU:HB3	2.18	0.44
1:F:327:MET:CE	1:F:347:PRO:HD2	2.47	0.44
1:F:821:PRO:HG3	1:F:863:ILE:HD11	1.99	0.44
1:F:900:GLU:O	1:F:903:SER:OG	2.29	0.44
2:G:110:ILE:HG23	2:G:151:ALA:HA	1.98	0.44
3:E:657:PRO:HD2	3:E:665:TRP:HH2	1.82	0.44
3:A:107:LEU:HD11	3:A:165:LEU:HD11	1.98	0.44
4:D:14:VAL:HB	4:D:83:SER:N	2.33	0.44
1:B:220:HIS:HA	1:B:222:TYR:CZ	2.53	0.44
1:B:450:LEU:HB2	1:B:511:GLU:HB2	1.99	0.44
1:B:1136:PHE:CD1	1:B:1186:LEU:HD22	2.53	0.44
1:B:1232:LYS:HB2	1:B:1232:LYS:HE3	1.89	0.44
1:B:1387:GLU:HG2	1:B:1388:TYR:N	2.33	0.44
1:B:1435:MET:SD	1:B:1455:ARG:HA	2.58	0.44
1:B:1568:LYS:HD2	1:B:1569:ALA:N	2.33	0.44
1:F:795:PHE:CZ	1:F:843:PHE:HB2	2.53	0.44
1:F:891:ASP:HB2	1:F:938:ARG:NH1	2.31	0.44
1:F:903:SER:HB3	1:F:953:PHE:CE2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1283:LEU:HB3	1:F:1288:TYR:HD1	1.83	0.44
1:F:1359:GLN:HG2	1:F:1456:ALA:HB2	2.00	0.44
1:F:1368:TYR:HD2	1:F:1419:LYS:HE3	1.83	0.44
3:A:156:SER:O	3:A:160:THR:HG23	2.18	0.44
3:A:178:VAL:O	3:A:181:ILE:HG22	2.18	0.44
3:A:295:TYR:HB2	3:A:440:ASP:O	2.18	0.44
3:A:359:LEU:HD22	3:A:412:PRO:HA	2.00	0.44
3:A:408:LYS:HE3	3:A:474:SER:C	2.42	0.44
4:D:37:PHE:CB	4:D:58:THR:HA	2.48	0.44
1:B:37:ILE:HD13	1:B:45:TYR:CB	2.44	0.44
1:B:98:TRP:CZ3	1:B:159:LEU:HD12	2.53	0.44
1:B:180:THR:O	1:B:183:LEU:HB2	2.18	0.44
1:B:450:LEU:N	1:B:511:GLU:O	2.47	0.44
1:B:714:PRO:O	1:B:718:THR:OG1	2.27	0.44
1:B:787:PHE:O	1:B:791:ILE:HG12	2.17	0.44
1:B:869:PHE:HA	1:B:918:VAL:HG13	2.00	0.44
1:B:887:SER:O	1:B:890:LEU:HB3	2.18	0.44
1:B:940:VAL:HG13	1:B:992:MET:SD	2.57	0.44
1:B:950:ILE:O	1:B:954:VAL:HG23	2.18	0.44
1:B:1296:LEU:HD12	1:B:1296:LEU:HA	1.65	0.44
2:C:169:PHE:O	2:C:173:ILE:HG22	2.17	0.44
1:F:114:PHE:O	1:F:117:LEU:HB3	2.18	0.44
1:F:329:ILE:HG22	1:F:332:ILE:HD12	2.00	0.44
1:F:1405:ALA:H	3:E:584:LYS:NZ	2.14	0.44
1:F:1436:SER:OG	1:F:1437:LEU:N	2.49	0.44
1:F:1455:ARG:CZ	1:F:1455:ARG:HB2	2.47	0.44
1:F:1606:ILE:HG23	1:F:1610:LYS:NZ	2.33	0.44
3:E:535:GLU:O	3:E:539:LYS:HB2	2.18	0.44
3:A:356:TYR:C	3:A:359:LEU:H	2.26	0.44
3:A:386:TYR:HE1	3:A:391:HIS:HD2	1.64	0.44
3:A:542:PRO:HA	3:A:545:LEU:HG	1.99	0.44
1:B:30:GLN:H	1:B:33:ASP:CG	2.21	0.44
1:B:526:HIS:HA	1:B:553:LYS:HA	1.99	0.44
1:B:985:PHE:CD2	1:B:986:LEU:HD22	2.53	0.44
1:B:1145:HIS:O	1:B:1149:ASN:ND2	2.51	0.44
1:B:1198:SER:OG	1:B:1199:SER:N	2.51	0.44
1:B:1361:GLU:C	1:B:1362:TYR:HD1	2.26	0.44
1:F:2:ALA:HB3	3:E:717:PRO:HB2	2.00	0.44
1:F:558:ASP:OD1	1:F:559:GLY:N	2.51	0.44
1:F:642:ASN:OD1	1:F:646:ASN:HB2	2.17	0.44
1:F:730:TYR:HB2	1:F:767:ILE:HG23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1028:LEU:HD11	1:F:1042:LEU:HD23	2.00	0.44
1:F:1102:ILE:O	1:F:1105:MET:HG3	2.18	0.44
1:F:1321:SER:OG	1:F:1341:LEU:HD11	2.17	0.44
1:F:1328:TYR:CD2	1:F:1338:LEU:HD22	2.52	0.44
1:F:1578:GLU:HG3	1:F:1579:HIS:ND1	2.33	0.44
2:G:68:ARG:HH11	2:G:96:LYS:HZ1	1.65	0.44
3:A:100:LYS:HE2	3:A:132:MET:HE3	2.00	0.44
3:A:212:SER:HB2	3:A:215:LEU:HG	2.00	0.44
4:D:110:ILE:O	4:D:152:VAL:HG22	2.17	0.44
1:B:18:ASN:HD22	1:B:28:SER:HB3	1.82	0.43
1:B:98:TRP:CH2	1:B:155:GLY:HA3	2.53	0.43
1:B:166:ARG:HA	1:B:166:ARG:HD2	1.89	0.43
1:B:232:VAL:HG21	1:B:400:TRP:HE1	1.83	0.43
1:B:679:ILE:O	1:B:683:MET:N	2.44	0.43
1:B:1063:THR:CA	1:B:1069:ARG:HH11	2.27	0.43
1:B:1097:HIS:HA	1:B:1100:LYS:NZ	2.33	0.43
1:B:1154:LYS:O	1:B:1155:LEU:C	2.61	0.43
1:F:65:HIS:ND1	1:F:65:HIS:O	2.51	0.43
1:F:1207:TYR:CD2	1:F:1208:ARG:HG3	2.53	0.43
1:F:1323:GLU:O	1:F:1327:THR:HG23	2.18	0.43
1:F:1386:LYS:HG3	1:F:1387:GLU:OE1	2.18	0.43
1:F:1419:LYS:HD2	1:F:1419:LYS:HA	1.74	0.43
3:A:12:ILE:HA	3:A:75:LEU:HB2	1.99	0.43
3:A:130:THR:HG23	3:A:134:GLU:OE2	2.18	0.43
1:B:110:LYS:CD	1:B:113:LEU:HB2	2.48	0.43
1:B:238:ASP:O	1:B:303:VAL:N	2.51	0.43
1:B:966:ASP:HA	1:B:969:TYR:HD1	1.79	0.43
1:B:1183:HIS:ND1	1:B:1184:LYS:O	2.52	0.43
1:B:1546:PRO:HA	1:B:1549:MET:CG	2.48	0.43
1:F:107:VAL:C	3:E:555:ARG:HH22	2.26	0.43
1:F:517:ILE:HB	1:F:522:VAL:HB	2.01	0.43
1:F:741:VAL:HG21	1:F:798:PHE:CD1	2.53	0.43
1:F:1207:TYR:CZ	1:F:1211:ILE:HG13	2.54	0.43
3:E:578:ARG:HG2	3:E:587:HIS:CD2	2.53	0.43
1:B:109:ASN:OD1	3:A:555:ARG:NH2	2.42	0.43
1:B:306:MET:H	1:B:314:HIS:CG	2.36	0.43
1:B:400:TRP:CZ2	4:D:127:ARG:HB2	2.50	0.43
1:B:473:HIS:HB3	1:B:478:LYS:N	2.33	0.43
1:B:1102:ILE:HG23	1:B:1131:MET:HG3	2.01	0.43
1:B:1185:TYR:CD1	1:B:1185:TYR:N	2.86	0.43
1:B:1557:PRO:HG3	1:B:1563:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:243:MET:O	1:F:258:TYR:N	2.38	0.43
1:F:795:PHE:CD2	1:F:839:LEU:HD22	2.53	0.43
1:F:975:THR:HG22	1:F:975:THR:O	2.18	0.43
1:F:1038:PHE:O	1:F:1039:GLU:HG2	2.18	0.43
3:A:586:LEU:HD23	3:A:608:LEU:O	2.18	0.43
4:D:10:GLY:N	4:D:16:LYS:HD3	2.34	0.43
1:B:101:ILE:HD12	1:B:104:LYS:HE3	2.00	0.43
1:B:166:ARG:O	1:B:166:ARG:HG3	2.18	0.43
1:B:248:PRO:HB3	1:B:387:ILE:HD13	2.00	0.43
1:B:472:VAL:HA	1:B:527:ILE:HA	2.01	0.43
1:B:566:ARG:HE	1:B:621:GLN:CG	2.26	0.43
1:B:570:VAL:HG11	1:B:615:SER:HG	1.81	0.43
1:B:1115:THR:C	1:B:1121:ARG:HH21	2.27	0.43
1:B:1264:LEU:HD22	1:B:1304:ILE:CG1	2.48	0.43
1:B:1328:TYR:HB3	1:B:1338:LEU:CD2	2.48	0.43
1:B:1382:ILE:HD12	1:B:1382:ILE:HA	1.85	0.43
1:B:1432:LYS:HB2	1:B:1463:ARG:HG2	2.00	0.43
1:B:1632:LYS:HA	1:B:1636:HIS:HB2	2.00	0.43
2:C:160:LEU:HD12	2:C:160:LEU:HA	1.78	0.43
1:F:876:GLU:O	1:F:880:PRO:HD3	2.17	0.43
1:F:1159:VAL:HB	1:F:1204:LEU:HD22	2.00	0.43
1:F:1173:GLU:O	1:F:1176:LEU:HG	2.18	0.43
1:F:1230:PHE:O	1:F:1233:GLU:HB3	2.18	0.43
1:F:1326:GLU:HA	1:F:1329:GLU:HG2	2.01	0.43
1:F:1556:ASP:O	1:F:1558:ALA:N	2.51	0.43
3:A:300:LEU:HA	3:A:303:ASN:ND2	2.32	0.43
3:A:502:PHE:CZ	3:A:506:LEU:HD11	2.54	0.43
3:A:578:ARG:NH2	3:A:598:GLU:OE1	2.52	0.43
1:B:101:ILE:O	1:B:104:LYS:HG2	2.19	0.43
1:B:598:LYS:HA	1:B:601:GLN:HG3	2.01	0.43
1:B:904:GLN:O	1:B:907:SER:OG	2.33	0.43
1:B:932:LEU:O	1:B:935:ARG:HB2	2.18	0.43
1:B:1086:ARG:HG2	1:B:1086:ARG:HH11	1.82	0.43
1:B:1237:GLU:O	1:B:1240:TYR:HB3	2.19	0.43
1:B:1395:SER:O	1:B:1399:LEU:HG	2.19	0.43
1:B:1466:ARG:N	1:B:1484:ILE:HG23	2.33	0.43
1:F:142:ALA:O	1:F:146:LYS:HG3	2.19	0.43
1:F:154:HIS:O	1:F:157:ARG:HG2	2.18	0.43
1:F:783:ASP:O	1:F:786:GLU:HG3	2.19	0.43
1:F:926:GLN:O	1:F:929:MET:HG2	2.19	0.43
1:F:1325:ALA:O	1:F:1328:TYR:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:394:ALA:HA	3:A:397:ARG:NE	2.34	0.43
3:A:531:ARG:HD2	3:A:534:LEU:HD12	2.00	0.43
4:D:146:ALA:HB2	4:D:154:TYR:HB2	2.01	0.43
1:B:195:GLU:HA	1:B:198:ILE:HG22	2.01	0.43
1:B:927:LEU:HB3	1:B:931:ARG:NH1	2.21	0.43
1:B:1291:TYR:O	1:B:1292:THR:C	2.60	0.43
1:B:1516:GLU:O	1:B:1519:ILE:HB	2.17	0.43
1:B:1602:GLU:HA	1:B:1605:ARG:HG2	2.00	0.43
1:B:1634:GLU:C	1:B:1635:LYS:HD2	2.43	0.43
1:F:242:PHE:HB2	1:F:299:GLN:OE1	2.18	0.43
1:F:725:SER:HA	1:F:773:LEU:HD11	2.00	0.43
1:F:990:PHE:HD2	1:F:1042:LEU:HD11	1.84	0.43
1:F:1031:PHE:C	1:F:1035:GLN:HE22	2.27	0.43
1:F:1054:LEU:HD22	1:F:1083:ILE:HG22	1.99	0.43
1:F:1396:LEU:O	1:F:1399:LEU:N	2.52	0.43
1:F:1469:ARG:HD2	1:F:1481:THR:CB	2.48	0.43
1:F:1609:GLU:HB2	1:F:1610:LYS:NZ	2.33	0.43
3:E:677:MET:O	3:E:683:ARG:NH1	2.52	0.43
4:D:5:LYS:HB3	4:D:74:GLN:O	2.19	0.43
1:B:48:TYR:HB3	1:B:53:LYS:HD2	2.00	0.43
1:B:305:HIS:HB3	1:B:314:HIS:ND1	2.34	0.43
1:B:468:VAL:HG21	1:B:620:PHE:CE1	2.54	0.43
1:B:552:VAL:HG23	1:B:591:THR:HG21	2.01	0.43
1:B:740:TYR:HB3	1:B:753:LEU:CD2	2.49	0.43
1:B:801:LEU:O	1:B:804:ARG:HB2	2.18	0.43
1:B:1121:ARG:O	1:B:1125:ILE:HG22	2.18	0.43
1:B:1236:ARG:HD3	1:B:1236:ARG:HA	1.90	0.43
1:B:1488:THR:OG1	1:B:1508:SER:N	2.52	0.43
1:F:226:VAL:HG22	1:F:403:LEU:HD23	2.00	0.43
1:F:589:PRO:HB2	1:F:595:MET:HG2	2.01	0.43
1:F:680:MET:HE3	1:F:693:VAL:HG11	1.99	0.43
1:F:908:ASN:O	1:F:912:VAL:HG22	2.18	0.43
1:F:1010:ASN:O	1:F:1013:GLN:NE2	2.52	0.43
1:F:1135:GLU:OE2	1:F:1147:PHE:CG	2.72	0.43
1:F:1354:LYS:HE2	1:F:1354:LYS:HB2	1.84	0.43
1:F:1391:ARG:NH2	2:G:162:GLN:OE1	2.52	0.43
2:G:45:MET:CB	2:G:50:PRO:HA	2.42	0.43
2:G:49:LYS:HZ3	2:G:51:VAL:HG12	1.84	0.43
3:E:681:LEU:HA	3:E:684:ASN:OD1	2.19	0.43
3:A:126:ILE:HG23	3:A:129:LEU:HD12	2.01	0.43
3:A:304:LEU:HD13	3:A:304:LEU:HA	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:563:ARG:C	3:A:575:TRP:HE1	2.25	0.43
4:D:21:ILE:HG23	4:D:25:THR:OG1	2.18	0.43
1:B:19:TYR:N	1:B:28:SER:HA	2.24	0.43
1:B:60:PRO:O	1:B:64:ILE:HG12	2.19	0.43
1:B:84:GLU:O	1:B:87:LEU:HB3	2.18	0.43
1:B:170:GLY:C	1:B:172:ILE:H	2.27	0.43
1:B:719:TYR:O	1:B:724:PHE:N	2.48	0.43
1:B:783:ASP:HB2	1:B:786:GLU:HG3	2.01	0.43
1:B:992:MET:O	1:B:996:LEU:HD23	2.19	0.43
1:B:1166:GLU:O	1:B:1170:VAL:HG23	2.18	0.43
1:B:1179:HIS:HA	1:B:1182:LYS:HD3	2.00	0.43
1:B:1211:ILE:HG22	1:B:1212:MET:HE3	2.01	0.43
1:B:1295:GLU:OE2	1:B:1299:LYS:HD3	2.19	0.43
1:F:1:MET:HB2	3:E:717:PRO:O	2.19	0.43
1:F:297:VAL:HG22	1:F:326:VAL:HG22	2.01	0.43
1:F:679:ILE:HG23	1:F:683:MET:SD	2.59	0.43
1:F:683:MET:HG3	1:F:689:TYR:CD2	2.54	0.43
1:F:871:GLN:HB2	1:F:918:VAL:CG1	2.47	0.43
1:F:1124:THR:O	1:F:1127:ILE:HB	2.18	0.43
1:F:1276:LYS:O	1:F:1278:CYS:N	2.52	0.43
1:F:1495:PHE:HA	1:F:1496:PRO:C	2.44	0.43
3:A:50:ALA:HB3	3:A:80:SER:HA	2.01	0.43
3:A:232:LEU:HA	3:A:240:GLN:HG2	1.99	0.43
3:A:272:ARG:HG2	3:A:446:PHE:CD1	2.54	0.43
3:A:297:LEU:HB2	3:A:446:PHE:HZ	1.82	0.43
3:A:420:LEU:CD2	3:A:481:MET:HE1	2.48	0.43
4:D:11:ASP:O	4:D:14:VAL:HG22	2.18	0.43
4:D:139:PRO:HA	4:D:154:TYR:HE2	1.84	0.43
1:B:306:MET:HG2	1:B:320:ARG:NH2	2.33	0.43
1:B:419:HIS:CD2	1:B:420:LEU:HG	2.54	0.43
1:B:450:LEU:HD12	1:B:511:GLU:HB2	1.99	0.43
1:B:485:HIS:CE1	1:B:516:SER:HB2	2.53	0.43
1:B:537:GLN:O	1:B:541:ASP:N	2.47	0.43
1:B:730:TYR:HA	1:B:733:LEU:HD12	2.00	0.43
1:B:841:CYS:HA	1:B:881:LEU:CD1	2.49	0.43
1:B:1521:THR:O	1:B:1524:LEU:HG	2.19	0.43
1:F:44:TRP:CD1	3:E:716:GLU:HG3	2.53	0.43
1:F:342:LYS:HG2	1:F:344:HIS:CE1	2.53	0.43
1:F:351:ILE:H	1:F:351:ILE:HG13	1.63	0.43
1:F:472:VAL:HG11	1:F:517:ILE:HD11	2.01	0.43
1:F:472:VAL:HG22	1:F:527:ILE:HG13	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1618:LEU:O	1:F:1622:LEU:HG	2.19	0.43
3:E:533:ILE:HD12	3:E:533:ILE:H	1.84	0.43
4:D:95:HIS:O	4:D:99:PRO:HG2	2.19	0.43
1:B:10:GLN:HG3	1:B:37:ILE:HG22	1.99	0.43
1:B:100:VAL:HA	1:B:103:ARG:HB2	2.01	0.43
1:B:192:LYS:HE2	1:B:192:LYS:HA	2.01	0.43
1:B:240:GLU:OE1	1:B:261:ARG:HD2	2.19	0.43
1:B:834:VAL:HG22	1:B:873:GLU:O	2.17	0.43
1:B:1175:LEU:HB3	1:B:1179:HIS:HE1	1.84	0.43
1:B:1191:GLU:O	1:B:1195:LEU:HG	2.19	0.43
1:B:1269:GLU:OE1	1:B:1270:LEU:HD22	2.18	0.43
1:B:1315:GLU:HG2	1:B:1453:TYR:CE2	2.53	0.43
1:B:1517:ASN:O	1:B:1521:THR:HG23	2.19	0.43
1:F:1:MET:C	1:F:4:TRP:HE1	2.27	0.43
1:F:156:ASN:HB3	1:F:161:LEU:HB2	2.01	0.43
1:F:382:VAL:O	1:F:386:VAL:HG23	2.19	0.43
1:F:1014:ASN:O	1:F:1018:LEU:HG	2.19	0.43
1:F:1026:GLU:O	1:F:1030:ARG:HG2	2.18	0.43
1:F:1039:GLU:O	1:F:1040:LEU:HD23	2.19	0.43
1:F:1185:TYR:CG	1:F:1186:LEU:N	2.86	0.43
1:F:1217:LYS:O	1:F:1220:ARG:HB2	2.18	0.43
1:F:1221:MET:CE	1:F:1250:LEU:HD13	2.48	0.43
1:F:1444:LYS:N	1:F:1444:LYS:HD2	2.34	0.43
1:F:1470:LYS:HD3	1:F:1483:TRP:CD2	2.54	0.43
1:F:1617:PRO:HB2	1:F:1621:ARG:NH2	2.34	0.43
3:E:565:LEU:HD23	3:E:565:LEU:HA	1.77	0.43
3:E:613:ILE:HD13	3:E:646:TYR:HB3	2.00	0.43
3:A:2:PRO:HA	3:A:3:PRO:HD3	1.88	0.43
3:A:279:VAL:HG11	3:A:290:MET:SD	2.58	0.43
3:A:693:GLU:OE2	3:A:697:ARG:HD3	2.19	0.43
1:B:17:TYR:CE1	3:A:711:PRO:HD2	2.54	0.42
1:B:70:THR:HG22	1:B:71:VAL:N	2.30	0.42
1:B:73:ASP:O	1:B:78:GLU:N	2.52	0.42
1:B:86:PRO:HA	1:B:89:GLN:HG2	2.00	0.42
1:B:108:ASN:HD21	1:B:110:LYS:HG2	1.84	0.42
1:B:114:PHE:CZ	1:B:118:GLN:NE2	2.87	0.42
1:B:129:SER:O	1:B:132:LEU:HB2	2.19	0.42
1:B:379:LEU:HD23	1:B:379:LEU:HA	1.92	0.42
1:B:814:GLY:O	1:B:817:LEU:HG	2.19	0.42
1:B:905:LEU:O	1:B:906:LEU:C	2.62	0.42
1:B:905:LEU:O	1:B:909:ILE:HG12	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1029:THR:HA	1:B:1033:MET:SD	2.59	0.42
1:B:1086:ARG:NE	1:B:1086:ARG:HA	2.34	0.42
1:B:1156:ASP:O	1:B:1157:GLN:C	2.61	0.42
1:B:1205:LEU:HD13	1:B:1205:LEU:HA	1.91	0.42
1:B:1532:CYS:SG	1:B:1550:LEU:HD12	2.59	0.42
1:B:1593:ILE:O	1:B:1597:MET:HG2	2.19	0.42
2:C:24:THR:HG22	2:C:42:ALA:HB2	2.01	0.42
1:F:132:LEU:HD21	3:E:702:GLU:HB3	2.01	0.42
1:F:241:LEU:O	1:F:260:ILE:N	2.50	0.42
1:F:327:MET:HE3	1:F:346:ILE:HD13	2.01	0.42
1:F:431:MET:HB3	1:F:625:LEU:HD23	2.00	0.42
1:F:446:ILE:HG12	1:F:626:ILE:HG12	2.00	0.42
1:F:775:LEU:O	1:F:779:GLY:N	2.52	0.42
1:F:840:PHE:HA	1:F:843:PHE:HB3	2.00	0.42
1:F:1114:LEU:HD23	1:F:1168:TYR:HE1	1.83	0.42
1:F:1469:ARG:NH1	1:F:1473:LYS:HG3	2.34	0.42
2:G:64:TYR:HA	2:G:66:ARG:NH1	2.34	0.42
2:G:82:PHE:CE1	2:G:154:TYR:HE1	2.37	0.42
3:A:317:ASP:HB3	3:A:320:GLN:HG3	2.00	0.42
4:D:129:LEU:HB3	4:D:134:GLN:O	2.19	0.42
1:B:24:ASP:OD1	1:B:25:VAL:HG22	2.20	0.42
1:B:85:LEU:O	1:B:89:GLN:HG2	2.19	0.42
1:B:293:ARG:HA	1:B:330:THR:OG1	2.19	0.42
1:B:612:SER:OG	1:B:614:ASP:OD1	2.32	0.42
1:B:933:LEU:HD21	1:B:960:LEU:CD2	2.49	0.42
1:B:940:VAL:HG21	1:B:957:MET:HE1	2.01	0.42
1:B:987:MET:O	1:B:991:ILE:HG23	2.20	0.42
1:B:1011:MET:O	1:B:1014:ASN:HB2	2.19	0.42
1:B:1193:PHE:N	1:B:1193:PHE:CD1	2.85	0.42
1:B:1196:LEU:O	1:B:1200:LEU:HG	2.18	0.42
1:B:1231:TYR:CE2	1:B:1243:TYR:CE2	3.04	0.42
1:B:1599:LEU:HA	1:B:1599:LEU:HD12	1.91	0.42
1:B:1607:HIS:C	1:B:1607:HIS:CD2	2.98	0.42
2:C:138:THR:OG1	2:C:140:PRO:HD2	2.19	0.42
1:F:41:TYR:HD2	1:F:44:TRP:HB2	1.84	0.42
1:F:934:ARG:NH1	1:F:934:ARG:O	2.52	0.42
1:F:1015:ARG:HG3	1:F:1079:MET:HE2	2.02	0.42
1:F:1133:GLN:O	1:F:1136:PHE:HB3	2.19	0.42
1:F:1375:PHE:O	1:F:1379:LYS:HG3	2.19	0.42
1:F:1540:ARG:HA	1:F:1540:ARG:CZ	2.49	0.42
1:F:1540:ARG:O	1:F:1542:LEU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:169:PHE:O	2:G:173:ILE:HG12	2.19	0.42
3:E:575:TRP:HB2	3:E:591:LEU:HB2	2.01	0.42
3:A:69:ILE:HG12	3:A:75:LEU:HD21	2.02	0.42
3:A:129:LEU:O	3:A:132:MET:HG2	2.20	0.42
3:A:260:GLN:NE2	3:A:307:ASP:OD2	2.52	0.42
3:A:522:ARG:HG3	3:A:531:ARG:NH1	2.34	0.42
3:A:609:PRO:HB2	3:A:611:ALA:H	1.83	0.42
3:A:646:TYR:HE1	3:A:652:LEU:HG	1.82	0.42
4:D:152:VAL:HB	4:D:180:THR:HG21	2.02	0.42
1:B:44:TRP:C	1:B:45:TYR:HD1	2.26	0.42
1:B:228:PHE:CE2	1:B:399:LEU:HD12	2.54	0.42
1:B:351:ILE:HD12	1:B:375:GLU:OE1	2.19	0.42
1:B:890:LEU:CD2	1:B:935:ARG:HG3	2.46	0.42
1:B:1022:ASN:O	1:B:1025:ALA:N	2.53	0.42
1:B:1024:PHE:O	1:B:1028:LEU:HD23	2.18	0.42
1:B:1328:TYR:HA	1:B:1332:VAL:CG2	2.50	0.42
1:F:12:TYR:HB2	1:F:67:LYS:HB2	2.01	0.42
1:F:137:PRO:HB2	1:F:140:GLU:OE1	2.20	0.42
1:F:598:LYS:HA	1:F:601:GLN:HG3	2.01	0.42
1:F:874:CYS:HA	1:F:877:VAL:HG12	2.00	0.42
1:F:1298:GLU:HG2	1:F:1302:GLN:OE1	2.19	0.42
1:F:1440:SER:C	1:F:1441:TYR:HD1	2.26	0.42
2:G:119:LEU:HA	2:G:122:ASP:HB2	2.00	0.42
3:A:88:LEU:O	3:A:92:ILE:HB	2.20	0.42
3:A:208:MET:SD	3:A:218:LYS:NZ	2.85	0.42
3:A:246:VAL:O	3:A:250:LEU:HG	2.19	0.42
3:A:526:GLU:C	3:A:529:GLN:H	2.27	0.42
3:A:552:ARG:HB3	3:A:664:ILE:HG23	2.01	0.42
1:B:88:VAL:O	1:B:91:LEU:HB3	2.20	0.42
1:B:128:ARG:O	1:B:132:LEU:HG	2.19	0.42
1:B:330:THR:CA	1:B:333:ILE:HG12	2.42	0.42
1:B:367:LEU:O	1:B:368:ILE:HG13	2.19	0.42
1:B:462:THR:HB	1:B:503:GLN:HG2	2.01	0.42
1:B:614:ASP:OD1	1:B:615:SER:N	2.53	0.42
1:B:768:ILE:O	1:B:772:VAL:HG22	2.20	0.42
1:B:809:ALA:O	1:B:813:LYS:HG3	2.20	0.42
1:B:910:LEU:HA	1:B:913:LEU:HB2	2.00	0.42
1:B:1279:VAL:HB	1:B:1281:HIS:ND1	2.34	0.42
1:B:1279:VAL:HA	1:B:1280:PRO:HD3	1.89	0.42
1:B:1372:PHE:CE2	1:B:1424:GLN:HB3	2.55	0.42
1:B:1452:ASN:OD1	1:B:1452:ASN:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1466:ARG:HB2	1:B:1485:GLU:H	1.84	0.42
1:F:318:LEU:HD22	1:F:320:ARG:NH2	2.34	0.42
1:F:710:GLN:HA	1:F:713:ASN:ND2	2.35	0.42
1:F:879:LEU:HD22	1:F:924:HIS:CE1	2.54	0.42
1:F:1013:GLN:O	1:F:1016:VAL:HG22	2.19	0.42
1:F:1073:VAL:O	1:F:1077:GLY:N	2.48	0.42
3:E:643:SER:OG	3:E:653:ASN:HA	2.20	0.42
4:D:19:LEU:HD13	4:D:157:CYS:SG	2.59	0.42
1:B:380:THR:HA	1:B:510:TYR:CE2	2.54	0.42
1:B:532:ARG:HA	1:B:546:ALA:HA	2.00	0.42
1:B:585:TYR:HA	1:B:588:LEU:HB2	2.00	0.42
1:B:694:PHE:O	1:B:698:VAL:HG23	2.20	0.42
1:B:818:LYS:HA	1:B:862:LYS:HE3	2.02	0.42
1:B:1169:LYS:HZ2	1:B:1202:GLU:HA	1.83	0.42
1:B:1279:VAL:HB	1:B:1281:HIS:HD1	1.85	0.42
1:B:1289:TYR:CE2	1:B:1291:TYR:CE1	3.07	0.42
1:B:1467:PRO:HG3	2:C:33:ILE:CD1	2.48	0.42
1:B:1499:LEU:HD23	1:B:1499:LEU:HA	1.80	0.42
1:B:1514:PRO:CA	1:B:1517:ASN:HD22	2.31	0.42
1:B:1529:ILE:O	1:B:1533:VAL:HG12	2.19	0.42
1:B:1583:GLN:HA	1:B:1586:VAL:HG12	2.01	0.42
1:F:105:LEU:HD22	1:F:110:LYS:CE	2.49	0.42
1:F:809:ALA:O	1:F:812:ILE:N	2.52	0.42
1:F:880:PRO:HA	1:F:931:ARG:HH21	1.85	0.42
1:F:910:LEU:C	1:F:963:GLN:HE22	2.24	0.42
1:F:1473:LYS:HD3	1:F:1481:THR:HG21	2.02	0.42
1:F:1514:PRO:O	1:F:1517:ASN:HB3	2.19	0.42
1:B:1:MET:C	1:B:4:TRP:HE1	2.28	0.42
1:B:323:GLY:HA3	1:B:350:GLN:HA	2.00	0.42
1:B:411:THR:OG1	1:B:412:GLN:N	2.52	0.42
1:B:527:ILE:HD13	1:B:552:VAL:HG13	2.02	0.42
1:B:566:ARG:NE	1:B:621:GLN:HG3	2.27	0.42
1:B:569:LEU:HB2	1:B:620:PHE:HB3	2.02	0.42
1:B:743:ASN:HB2	1:B:749:LYS:CD	2.50	0.42
1:B:1044:ASN:O	1:B:1048:HIS:ND1	2.53	0.42
1:B:1132:MET:HE1	1:B:1144:PHE:CE2	2.55	0.42
1:B:1211:ILE:HG22	1:B:1212:MET:CE	2.50	0.42
1:B:1216:SER:O	1:B:1220:ARG:HG3	2.19	0.42
1:B:1256:ASN:O	1:B:1257:TYR:C	2.63	0.42
2:C:80:ILE:O	2:C:112:LEU:HD12	2.19	0.42
1:F:676:LEU:HG	1:F:693:VAL:HG13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:678:ASN:HA	1:F:681:MET:CG	2.47	0.42
1:F:1066:GLN:HA	1:F:1069:ARG:HH22	1.84	0.42
1:F:1148:GLU:HA	1:F:1151:LEU:HB3	2.01	0.42
1:F:1362:TYR:N	1:F:1362:TYR:CD1	2.87	0.42
3:A:52:GLN:O	3:A:76:ARG:N	2.37	0.42
3:A:317:ASP:O	3:A:321:ARG:HB2	2.19	0.42
3:A:356:TYR:CE1	3:A:359:LEU:HD12	2.54	0.42
3:A:526:GLU:O	3:A:529:GLN:N	2.49	0.42
3:A:547:LEU:CA	3:A:550:GLN:HE21	2.33	0.42
4:D:9:VAL:HB	4:D:97:TRP:CZ3	2.54	0.42
4:D:22:CYS:HB3	4:D:162:GLN:NE2	2.35	0.42
1:B:104:LYS:O	1:B:107:VAL:HG22	2.20	0.42
1:B:162:ASP:HB2	1:B:1007:MET:SD	2.59	0.42
1:B:626:ILE:HD12	1:B:633:GLN:NE2	2.35	0.42
1:B:771:ARG:O	1:B:775:LEU:HG	2.20	0.42
1:B:784:GLY:O	1:B:787:PHE:HB3	2.20	0.42
1:B:809:ALA:O	1:B:812:ILE:N	2.53	0.42
1:B:1059:LEU:HD23	1:B:1080:ARG:HH22	1.84	0.42
1:B:1169:LYS:HE2	1:B:1169:LYS:HB3	1.83	0.42
2:C:46:VAL:HG13	2:C:47:ASP:H	1.84	0.42
2:C:116:LYS:O	2:C:120:ARG:N	2.44	0.42
2:C:122:ASP:O	2:C:126:ILE:HG23	2.20	0.42
1:F:934:ARG:HB3	1:F:935:ARG:NH1	2.34	0.42
1:F:953:PHE:O	1:F:956:CYS:HB2	2.20	0.42
1:F:1114:LEU:HB3	1:F:1163:ARG:HG2	2.02	0.42
1:F:1297:LYS:HG2	1:F:1301:TYR:HE1	1.83	0.42
1:F:1386:LYS:HD3	1:F:1386:LYS:HA	1.75	0.42
3:A:670:ASN:HA	3:A:673:LEU:HD12	2.01	0.42
4:D:20:LEU:O	4:D:24:THR:N	2.45	0.42
4:D:143:GLN:OE1	4:D:154:TYR:HB3	2.20	0.42
1:B:473:HIS:HA	1:B:478:LYS:O	2.19	0.42
1:B:883:THR:HG21	1:B:931:ARG:CD	2.50	0.42
1:B:1033:MET:O	1:B:1036:ALA:N	2.53	0.42
1:B:1335:TYR:O	1:B:1338:LEU:HB2	2.20	0.42
1:B:1585:LYS:HA	1:B:1588:LEU:HD12	2.00	0.42
1:F:31:ILE:CG2	3:E:701:LEU:HD23	2.48	0.42
1:F:244:ALA:HB2	1:F:257:ASN:HA	2.02	0.42
1:F:332:ILE:HG23	1:F:403:LEU:HB3	2.00	0.42
1:F:945:ARG:HH12	1:F:946:GLN:HB2	1.84	0.42
1:F:1372:PHE:N	1:F:1424:GLN:HG2	2.35	0.42
2:G:27:ALA:O	2:G:162:GLN:NE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:292:HIS:ND1	3:A:436:GLU:HG3	2.35	0.42
3:A:394:ALA:O	3:A:398:ILE:HG12	2.19	0.42
1:B:55:LYS:HG2	1:B:56:LYS:N	2.35	0.42
1:B:102:TRP:HB2	1:B:114:PHE:HE1	1.82	0.42
1:B:291:ARG:HA	1:B:292:PRO:HD3	1.91	0.42
1:B:473:HIS:O	1:B:525:CYS:HB3	2.20	0.42
1:B:566:ARG:NH2	1:B:621:GLN:HE21	2.18	0.42
1:B:787:PHE:O	1:B:790:SER:HB3	2.20	0.42
1:B:789:ASN:O	1:B:790:SER:C	2.63	0.42
1:B:820:LEU:O	1:B:823:ILE:HG12	2.20	0.42
1:B:824:ILE:O	1:B:828:LYS:HG2	2.20	0.42
1:B:940:VAL:HG13	1:B:992:MET:CE	2.46	0.42
1:B:1036:ALA:C	1:B:1038:PHE:N	2.78	0.42
2:C:114:GLY:HA3	2:C:156:GLU:CG	2.50	0.42
1:F:127:TRP:HA	1:F:130:GLN:HG2	2.02	0.42
1:F:465:ASN:CB	1:F:534:ARG:H	2.32	0.42
1:F:651:LYS:HE2	1:F:689:TYR:CE1	2.54	0.42
1:F:862:LYS:O	1:F:865:GLU:HB3	2.19	0.42
1:F:1060:GLN:HA	1:F:1063:THR:OG1	2.19	0.42
1:F:1217:LYS:CG	1:F:1220:ARG:HH21	2.26	0.42
1:F:1316:LYS:HE3	1:F:1319:LYS:HD3	2.02	0.42
1:F:1560:MET:SD	1:F:1565:ASN:ND2	2.93	0.42
2:G:80:ILE:HG23	2:G:112:LEU:HA	2.01	0.42
2:G:122:ASP:O	2:G:126:ILE:HG23	2.19	0.42
3:A:393:ASP:OD1	3:A:393:ASP:N	2.52	0.42
3:A:531:ARG:HA	3:A:534:LEU:HD12	2.01	0.42
3:A:552:ARG:HH21	3:A:555:ARG:NE	2.18	0.42
3:A:644:ILE:HD12	3:A:652:LEU:HD12	2.01	0.42
1:B:99:ALA:HB1	1:B:103:ARG:NH1	2.33	0.42
1:B:237:GLU:HG2	1:B:303:VAL:O	2.20	0.42
1:B:474:ASP:O	1:B:526:HIS:CE1	2.73	0.42
1:B:1094:LEU:HD23	1:B:1094:LEU:O	2.20	0.42
1:B:1217:LYS:HE2	1:B:1217:LYS:HB2	1.87	0.42
1:F:105:LEU:HD22	1:F:110:LYS:HE2	2.00	0.42
1:F:121:THR:HA	1:F:124:LEU:HD12	2.01	0.42
1:F:197:LYS:HG2	1:F:200:GLU:OE2	2.20	0.42
1:F:683:MET:HG2	1:F:683:MET:O	2.20	0.42
1:F:1120:LEU:O	1:F:1124:THR:OG1	2.35	0.42
1:F:1199:SER:HA	1:F:1202:GLU:CD	2.44	0.42
1:F:1525:THR:HA	1:F:1528:ARG:NH1	2.27	0.42
2:G:68:ARG:NH1	2:G:97:TRP:HZ3	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:544:ILE:HA	3:E:547:LEU:HG	2.02	0.42
3:E:579:LEU:HD12	3:E:585:VAL:O	2.20	0.42
3:A:302:PHE:HB3	3:A:431:GLY:N	2.15	0.42
3:A:303:ASN:HA	3:A:306:GLU:HB2	2.01	0.42
3:A:673:LEU:HB3	3:A:675:LYS:HE2	2.01	0.42
4:D:98:HIS:CE1	4:D:102:CYS:SG	3.13	0.42
1:B:59:PHE:HD2	1:B:64:ILE:CD1	2.33	0.41
1:B:175:PRO:C	1:B:177:GLU:H	2.28	0.41
1:B:262:TRP:HE1	1:B:266:GLY:HA2	1.85	0.41
1:B:469:THR:HA	1:B:496:TYR:O	2.19	0.41
1:B:535:SER:OG	1:B:536:SER:N	2.53	0.41
1:B:571:VAL:H	1:B:619:SER:HA	1.84	0.41
1:B:817:LEU:HD12	1:B:818:LYS:N	2.35	0.41
1:B:868:LEU:HD12	1:B:868:LEU:HA	1.89	0.41
1:B:1109:ILE:HA	1:B:1112:VAL:HG12	2.02	0.41
1:B:1124:THR:C	1:B:1126:PRO:HD2	2.45	0.41
1:B:1125:ILE:HG23	1:B:1126:PRO:HD3	2.02	0.41
1:B:1284:GLN:OE1	1:B:1284:GLN:N	2.43	0.41
1:B:1524:LEU:HA	1:B:1527:GLU:OE2	2.19	0.41
1:F:23:GLN:HG2	1:F:58:ILE:HB	2.01	0.41
1:F:105:LEU:HB3	1:F:110:LYS:HE3	2.02	0.41
1:F:224:LEU:HD12	1:F:404:LYS:O	2.20	0.41
1:F:469:THR:HA	1:F:496:TYR:O	2.20	0.41
1:F:736:VAL:HA	1:F:739:PHE:HB3	2.01	0.41
1:F:749:LYS:HA	1:F:752:LEU:HB2	2.02	0.41
1:F:853:VAL:HA	1:F:856:LYS:HG2	2.02	0.41
1:F:900:GLU:C	1:F:903:SER:HG	2.25	0.41
1:F:1134:CYS:HA	1:F:1137:ASN:OD1	2.20	0.41
1:F:1136:PHE:CD1	1:F:1186:LEU:HD22	2.55	0.41
1:F:1491:THR:HA	1:F:1505:LYS:H	1.84	0.41
2:G:113:VAL:HG12	2:G:155:LEU:HB2	2.01	0.41
2:G:129:LEU:O	2:G:133:LYS:N	2.53	0.41
3:E:560:THR:HG21	3:E:661:GLU:OE1	2.20	0.41
3:E:620:LYS:HA	3:E:620:LYS:HD3	1.82	0.41
4:D:58:THR:HB	4:D:68:ARG:HG3	2.02	0.41
4:D:97:TRP:O	4:D:101:VAL:HG13	2.20	0.41
4:D:98:HIS:CD2	4:D:149:ILE:HB	2.54	0.41
1:B:262:TRP:C	1:B:269:LYS:HB2	2.45	0.41
1:B:278:GLN:O	1:B:426:ALA:HB3	2.20	0.41
1:B:718:THR:O	1:B:722:LYS:HB2	2.18	0.41
1:B:924:HIS:CD2	1:B:928:ILE:HD11	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:929:MET:SD	1:B:968:HIS:HB3	2.60	0.41
1:B:1060:GLN:O	1:B:1063:THR:HB	2.20	0.41
1:B:1086:ARG:O	1:B:1089:ASP:OD1	2.37	0.41
1:B:1125:ILE:CD1	1:B:1172:LEU:HA	2.50	0.41
1:B:1344:LYS:HA	1:B:1344:LYS:HD2	1.79	0.41
1:B:1452:ASN:O	1:B:1455:ARG:HB3	2.20	0.41
1:B:1536:HIS:HD2	1:B:1539:ASP:O	2.03	0.41
1:B:1562:GLY:HA3	2:C:36:VAL:HB	2.02	0.41
1:B:1600:LEU:CB	1:B:1626:PHE:HE1	2.34	0.41
1:F:4:TRP:CZ3	1:F:41:TYR:HB3	2.54	0.41
1:F:470:MET:O	1:F:495:GLU:HG3	2.20	0.41
1:F:720:ILE:HG12	1:F:766:PHE:CZ	2.55	0.41
2:G:171:GLU:HG3	2:G:174:ARG:HD2	2.03	0.41
3:E:531:ARG:HG2	3:E:532:PRO:HD3	2.02	0.41
3:A:408:LYS:C	3:A:410:GLU:H	2.27	0.41
3:A:564:LYS:HZ1	3:A:590:ASP:HA	1.85	0.41
4:D:68:ARG:HG2	4:D:72:TYR:CE1	2.56	0.41
1:B:125:ILE:HG13	1:B:126:GLU:N	2.34	0.41
1:B:159:LEU:HD23	1:B:159:LEU:HA	1.79	0.41
1:B:297:VAL:HG12	1:B:299:GLN:NE2	2.34	0.41
1:B:473:HIS:HB2	1:B:526:HIS:CE1	2.55	0.41
1:B:724:PHE:CD2	1:B:769:GLN:HG3	2.55	0.41
1:B:838:VAL:HA	1:B:841:CYS:SG	2.60	0.41
1:B:866:SER:O	1:B:867:THR:OG1	2.34	0.41
1:B:1143:ASN:OD1	1:B:1145:HIS:N	2.54	0.41
1:B:1362:TYR:CD2	1:B:1462:PHE:CE2	3.07	0.41
1:B:1462:PHE:HB2	1:B:1489:TYR:CB	2.34	0.41
1:F:875:ARG:HE	1:F:924:HIS:CD2	2.38	0.41
1:F:1032:PHE:CB	1:F:1043:TRP:HH2	2.33	0.41
1:F:1033:MET:H	1:F:1035:GLN:HE21	1.68	0.41
1:F:1105:MET:O	1:F:1108:PRO:HD2	2.20	0.41
1:F:1318:ILE:HG12	1:F:1345:ARG:HG3	2.02	0.41
1:F:1322:LYS:HG2	1:F:1345:ARG:NH1	2.35	0.41
3:A:591:LEU:HD13	3:A:591:LEU:HA	1.81	0.41
4:D:164:GLY:O	4:D:168:VAL:HG23	2.20	0.41
1:B:10:GLN:HG2	1:B:37:ILE:O	2.20	0.41
1:B:45:TYR:OH	1:B:61:GLU:HG3	2.20	0.41
1:B:192:LYS:HE2	1:B:195:GLU:OE1	2.21	0.41
1:B:451:ILE:HB	1:B:621:GLN:OE1	2.20	0.41
1:B:465:ASN:OD1	1:B:503:GLN:N	2.53	0.41
1:B:741:VAL:HG21	1:B:798:PHE:HD1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:879:LEU:HB3	1:B:880:PRO:HD3	2.03	0.41
1:B:1010:ASN:C	1:B:1013:GLN:HE21	2.24	0.41
1:B:1038:PHE:O	1:B:1039:GLU:HG2	2.20	0.41
1:B:1401:GLN:HB3	1:B:1402:PHE:HD2	1.86	0.41
1:B:1633:VAL:O	1:B:1639:VAL:HG22	2.20	0.41
1:F:4:TRP:HZ3	1:F:45:TYR:HA	1.86	0.41
1:F:896:LYS:CG	1:F:897:PRO:HD3	2.48	0.41
1:F:929:MET:HE3	1:F:933:LEU:HD11	2.01	0.41
1:F:937:ASN:O	1:F:940:VAL:HG12	2.20	0.41
1:F:1012:THR:HG22	1:F:1015:ARG:HH21	1.85	0.41
1:F:1272:GLN:OE1	1:F:1272:GLN:N	2.53	0.41
1:F:1602:GLU:HA	1:F:1605:ARG:CG	2.50	0.41
2:G:90:PHE:CD2	2:G:137:ILE:HD12	2.55	0.41
2:G:135:THR:O	2:G:137:ILE:N	2.52	0.41
3:A:236:ASP:HA	3:A:284:ARG:HH12	1.85	0.41
1:B:14:VAL:HG13	3:A:700:ASP:OD2	2.20	0.41
1:B:79:THR:HB	1:B:81:ILE:O	2.20	0.41
1:B:322:PHE:O	1:B:322:PHE:CG	2.73	0.41
1:B:900:GLU:CD	1:B:901:ALA:N	2.78	0.41
1:B:933:LEU:HD23	1:B:933:LEU:HA	1.84	0.41
1:B:1206:ASP:O	1:B:1210:ILE:HG12	2.20	0.41
1:B:1607:HIS:HE2	1:B:1619:HIS:HB2	1.86	0.41
1:F:248:PRO:HD2	1:F:294:VAL:HA	2.00	0.41
1:F:466:VAL:O	1:F:500:VAL:HA	2.21	0.41
1:F:505:LYS:HE3	1:F:505:LYS:HB3	1.89	0.41
1:F:866:SER:O	1:F:867:THR:OG1	2.38	0.41
1:F:1111:GLU:HA	1:F:1114:LEU:HD12	2.02	0.41
1:F:1297:LYS:HG2	1:F:1301:TYR:CE1	2.55	0.41
2:G:130:LYS:HE2	2:G:130:LYS:HA	2.01	0.41
2:G:130:LYS:HE3	2:G:136:PRO:HD3	2.03	0.41
3:E:616:VAL:HB	3:E:644:ILE:HG12	2.02	0.41
3:E:660:HIS:O	3:E:664:ILE:HG13	2.20	0.41
3:A:128:LEU:HA	3:A:131:GLN:OE1	2.21	0.41
3:A:305:LEU:HB3	3:A:379:LEU:HD11	2.03	0.41
3:A:307:ASP:OD1	3:A:308:ARG:HG3	2.21	0.41
3:A:572:ASP:HA	3:A:593:GLU:OE2	2.21	0.41
3:A:581:PRO:HA	3:A:583:HIS:CE1	2.55	0.41
4:D:16:LYS:HE3	4:D:58:THR:O	2.20	0.41
4:D:23:TYR:OH	4:D:53:LEU:HD12	2.20	0.41
1:B:548:GLY:HA2	1:B:573:LYS:HG2	2.01	0.41
1:B:594:GLU:HA	1:B:597:GLU:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:652:HIS:O	1:B:656:LYS:NZ	2.53	0.41
1:B:914:ASP:O	1:B:916:LYS:HD2	2.21	0.41
1:B:1540:ARG:O	1:B:1542:LEU:N	2.53	0.41
1:B:1561:GLY:C	1:B:1565:ASN:HD22	2.21	0.41
1:B:1629:LEU:HA	1:B:1632:LYS:CG	2.51	0.41
2:C:78:PHE:HB3	2:C:110:ILE:HD13	2.03	0.41
1:F:102:TRP:HA	1:F:105:LEU:CG	2.49	0.41
1:F:246:TYR:HB3	1:F:297:VAL:CG2	2.50	0.41
1:F:1127:ILE:HG22	1:F:1131:MET:CE	2.51	0.41
1:F:1150:GLU:H	1:F:1150:GLU:CD	2.29	0.41
2:G:100:GLU:HA	2:G:103:HIS:ND1	2.35	0.41
3:E:545:LEU:HD12	3:E:546:GLU:N	2.35	0.41
3:A:38:CYS:HB3	3:A:43:LEU:O	2.20	0.41
3:A:543:GLU:CD	3:A:544:ILE:N	2.79	0.41
3:A:652:LEU:HD23	3:A:652:LEU:HA	1.79	0.41
4:D:22:CYS:SG	4:D:159:ALA:HB1	2.61	0.41
4:D:87:PRO:O	4:D:90:TYR:HB3	2.21	0.41
1:B:85:LEU:CA	1:B:88:VAL:HG12	2.47	0.41
1:B:165:VAL:CG2	1:B:175:PRO:HD3	2.50	0.41
1:B:243:MET:N	1:B:243:MET:SD	2.94	0.41
1:B:729:ALA:O	1:B:732:LYS:N	2.53	0.41
1:B:775:LEU:O	1:B:779:GLY:N	2.54	0.41
1:B:957:MET:O	1:B:960:LEU:HB3	2.21	0.41
1:B:1483:TRP:CZ3	1:B:1511:GLU:HG3	2.56	0.41
1:F:79:THR:HB	1:F:81:ILE:O	2.20	0.41
1:F:220:HIS:O	1:F:285:SER:HA	2.21	0.41
1:F:1579:HIS:CD2	1:F:1582:ASP:HB2	2.55	0.41
3:A:26:GLN:HE22	3:A:66:ARG:HB2	1.86	0.41
3:A:300:LEU:HA	3:A:303:ASN:HD21	1.85	0.41
3:A:483:VAL:HG13	3:A:511:TYR:OH	2.21	0.41
3:A:641:ALA:O	3:A:662:TYR:OH	2.23	0.41
4:D:124:ASP:HA	4:D:127:ARG:HE	1.86	0.41
1:B:25:VAL:CG2	1:B:57:GLY:HA2	2.51	0.41
1:B:90:GLU:O	1:B:93:SER:OG	2.33	0.41
1:B:150:ALA:HA	1:B:153:ASP:OD2	2.20	0.41
1:B:240:GLU:HB3	1:B:242:PHE:CE1	2.55	0.41
1:B:578:LYS:HA	1:B:584:PHE:CE2	2.55	0.41
1:B:670:GLN:OE1	1:B:719:TYR:HB2	2.20	0.41
1:B:1154:LYS:O	1:B:1158:GLU:OE1	2.39	0.41
1:B:1300:LEU:HA	1:B:1300:LEU:HD23	1.78	0.41
1:B:1392:GLU:OE1	1:B:1392:GLU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:122:TYR:HA	1:F:125:ILE:HG12	2.02	0.41
1:F:222:TYR:HB2	1:F:284:LEU:HB2	2.02	0.41
1:F:308:LEU:HD23	1:F:308:LEU:HA	1.88	0.41
1:F:545:ARG:NH1	1:F:576:ASN:OD1	2.54	0.41
1:F:695:ASP:OD1	1:F:752:LEU:HD22	2.21	0.41
1:F:824:ILE:O	1:F:827:VAL:HB	2.21	0.41
1:F:914:ASP:O	1:F:916:LYS:HD3	2.20	0.41
1:F:964:MET:HE1	1:F:969:TYR:CG	2.55	0.41
1:F:982:ILE:O	1:F:986:LEU:HD23	2.20	0.41
1:F:1060:GLN:OE1	1:F:1060:GLN:N	2.44	0.41
1:F:1444:LYS:HA	1:F:1445:PRO:HD3	1.96	0.41
1:F:1451:LEU:HA	1:F:1451:LEU:HD13	1.81	0.41
2:G:1:MET:HE2	2:G:1:MET:HB3	1.99	0.41
2:G:162:GLN:HA	2:G:165:LEU:HD13	2.02	0.41
3:E:644:ILE:HB	3:E:652:LEU:HB2	2.02	0.41
3:A:301:THR:O	3:A:305:LEU:HG	2.21	0.41
3:A:396:ILE:O	3:A:400:LEU:HD23	2.20	0.41
1:B:17:TYR:CZ	3:A:710:PRO:HA	2.56	0.41
1:B:41:TYR:CD2	1:B:44:TRP:HB2	2.52	0.41
1:B:110:LYS:HD2	1:B:110:LYS:C	2.46	0.41
1:B:151:LYS:HA	1:B:151:LYS:HD3	1.87	0.41
1:B:306:MET:HE1	1:B:534:ARG:O	2.21	0.41
1:B:423:ARG:HA	1:B:423:ARG:HD3	1.97	0.41
1:B:446:ILE:HG23	1:B:626:ILE:HG12	2.03	0.41
1:B:469:THR:HG22	1:B:495:GLU:CD	2.45	0.41
1:B:474:ASP:CG	1:B:478:LYS:HB3	2.46	0.41
1:B:772:VAL:O	1:B:776:ARG:HG2	2.21	0.41
1:B:883:THR:CB	1:B:931:ARG:HE	2.34	0.41
1:B:886:LEU:O	1:B:889:GLN:HB3	2.20	0.41
1:B:940:VAL:C	1:B:992:MET:HE1	2.45	0.41
1:B:941:ILE:HG12	1:B:992:MET:HE3	2.02	0.41
1:B:965:ASP:H	1:B:968:HIS:CD2	2.39	0.41
1:B:1170:VAL:O	1:B:1174:LYS:HG3	2.21	0.41
1:B:1218:GLU:N	1:B:1218:GLU:CD	2.78	0.41
1:B:1330:SER:C	1:B:1331:LYS:HD3	2.45	0.41
1:B:1362:TYR:HE2	1:B:1459:VAL:HG21	1.85	0.41
1:B:1377:ARG:O	1:B:1379:LYS:NZ	2.44	0.41
1:B:1551:LEU:HD23	1:B:1551:LEU:HA	1.91	0.41
2:C:93:VAL:HG13	2:C:94:ARG:H	1.86	0.41
1:F:1:MET:HB3	3:E:720:TYR:CE1	2.56	0.41
1:F:246:TYR:HA	1:F:253:PHE:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:278:GLN:HB2	1:F:425:THR:HG23	2.03	0.41
1:F:568:ASP:HB3	1:F:592:LYS:HB2	2.02	0.41
1:F:743:ASN:C	1:F:743:ASN:HD22	2.28	0.41
1:F:824:ILE:HG13	1:F:867:THR:HG21	2.02	0.41
1:F:1038:PHE:HB2	1:F:1039:GLU:OE1	2.20	0.41
1:F:1417:ASP:N	1:F:1417:ASP:OD1	2.53	0.41
1:F:1581:GLU:HG2	1:F:1582:ASP:OD1	2.21	0.41
1:F:1598:PRO:O	1:F:1602:GLU:OE1	2.39	0.41
2:G:66:ARG:HG2	2:G:67:LEU:HD23	2.02	0.41
2:G:78:PHE:O	2:G:110:ILE:HD12	2.21	0.41
2:G:82:PHE:HE1	2:G:154:TYR:HE1	1.69	0.41
3:E:643:SER:HA	3:E:652:LEU:O	2.20	0.41
3:A:91:ARG:HG3	3:A:103:ALA:HB1	2.03	0.41
3:A:276:LEU:HD22	3:A:446:PHE:O	2.21	0.41
3:A:422:LYS:HB2	3:A:422:LYS:HE3	1.82	0.41
3:A:463:LEU:HG	3:A:484:VAL:HG21	2.03	0.41
3:A:617:VAL:O	3:A:643:SER:N	2.54	0.41
4:D:21:ILE:HG22	4:D:27:ALA:O	2.20	0.41
4:D:111:LEU:HD12	4:D:112:LEU:N	2.35	0.41
1:B:85:LEU:O	1:B:88:VAL:HG12	2.21	0.41
1:B:172:ILE:HA	1:B:175:PRO:CG	2.51	0.41
1:B:225:TYR:CZ	1:B:420:LEU:HD22	2.56	0.41
1:B:785:ASP:OD1	1:B:785:ASP:N	2.53	0.41
1:B:795:PHE:O	1:B:798:PHE:HB2	2.21	0.41
1:B:1059:LEU:HG	1:B:1116:PRO:HB2	2.02	0.41
1:B:1582:ASP:HB3	1:B:1585:LYS:HD3	2.03	0.41
1:B:1596:GLN:HG2	1:B:1600:LEU:HG	2.03	0.41
1:F:19:TYR:N	1:F:28:SER:HA	2.36	0.41
1:F:51:GLN:H	1:F:51:GLN:CD	2.29	0.41
1:F:113:LEU:HA	1:F:116:GLN:OE1	2.21	0.41
1:F:144:LEU:O	1:F:148:VAL:HG22	2.21	0.41
1:F:246:TYR:HB2	1:F:253:PHE:CD1	2.56	0.41
1:F:300:ILE:HG22	1:F:322:PHE:HD2	1.86	0.41
1:F:307:GLU:C	1:F:309:LYS:H	2.29	0.41
1:F:345:PHE:CD2	1:F:347:PRO:HD3	2.56	0.41
1:F:443:ARG:O	1:F:629:THR:OG1	2.31	0.41
1:F:792:ARG:HE	1:F:835:GLU:CD	2.29	0.41
1:F:1138:PHE:O	1:F:1141:ASN:N	2.44	0.41
1:F:1146:MET:HA	1:F:1149:ASN:HD22	1.86	0.41
1:F:1251:HIS:CD2	1:F:1259:GLU:HB3	2.56	0.41
1:F:1273:TRP:CE3	1:F:1297:LYS:HD3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:616:VAL:HA	3:A:644:ILE:HA	2.03	0.41
1:B:110:LYS:HD3	1:B:113:LEU:HB2	2.02	0.40
1:B:865:GLU:CD	1:B:866:SER:HB3	2.46	0.40
1:B:949:HIS:HD1	1:B:949:HIS:H	1.69	0.40
1:B:1563:PHE:HA	1:B:1566:TYR:CD2	2.42	0.40
2:C:8:VAL:HG22	2:C:79:LEU:HD12	2.04	0.40
2:C:139:TYR:OH	2:C:143:LEU:HD12	2.21	0.40
1:F:10:GLN:OE1	1:F:10:GLN:N	2.54	0.40
1:F:743:ASN:O	1:F:743:ASN:ND2	2.54	0.40
1:F:828:LYS:HZ3	1:F:867:THR:HA	1.86	0.40
1:F:1032:PHE:HE2	1:F:1039:GLU:HG3	1.86	0.40
1:F:1250:LEU:HA	1:F:1250:LEU:HD23	1.79	0.40
3:E:695:LYS:HE3	3:E:695:LYS:HB3	1.92	0.40
3:A:11:ALA:HA	3:A:21:LEU:CD1	2.51	0.40
3:A:159:LEU:HD22	3:A:204:ILE:HD12	2.03	0.40
3:A:328:ARG:NE	3:A:351:MET:HE1	2.37	0.40
3:A:526:GLU:C	3:A:530:SER:H	2.20	0.40
3:A:543:GLU:O	3:A:546:GLU:HG2	2.21	0.40
3:A:547:LEU:HA	3:A:550:GLN:HG3	2.04	0.40
1:B:185:LYS:O	1:B:189:VAL:HG23	2.20	0.40
1:B:201:GLU:O	1:B:205:LEU:HB2	2.21	0.40
1:B:657:LEU:HA	1:B:660:VAL:HG23	2.04	0.40
1:B:910:LEU:O	1:B:913:LEU:HB2	2.21	0.40
1:B:1064:PHE:HD1	1:B:1068:LYS:HZ2	1.70	0.40
1:B:1101:PHE:O	1:B:1104:SER:OG	2.36	0.40
1:B:1204:LEU:O	1:B:1207:TYR:HB3	2.21	0.40
1:B:1316:LYS:CE	1:B:1319:LYS:HD3	2.50	0.40
2:C:7:VAL:HB	2:C:78:PHE:HD2	1.85	0.40
2:C:65:ASP:O	2:C:69:PRO:HD3	2.21	0.40
1:F:81:ILE:HG21	1:F:141:LEU:CD2	2.51	0.40
1:F:535:SER:HB3	1:F:541:ASP:HA	2.03	0.40
1:F:642:ASN:O	1:F:646:ASN:N	2.54	0.40
1:F:817:LEU:HD13	1:F:855:GLN:O	2.21	0.40
1:F:839:LEU:HA	1:F:842:LYS:HE2	2.03	0.40
1:F:959:ALA:O	1:F:963:GLN:HG3	2.21	0.40
1:F:1066:GLN:HA	1:F:1069:ARG:CZ	2.51	0.40
1:F:1127:ILE:HG22	1:F:1131:MET:HE3	2.02	0.40
1:F:1176:LEU:HD13	1:F:1194:ALA:HB1	2.03	0.40
1:F:1231:TYR:CE2	1:F:1239:ILE:HD12	2.55	0.40
1:F:1344:LYS:HD2	1:F:1344:LYS:HA	1.75	0.40
2:G:140:PRO:O	2:G:143:LEU:HB3	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:184:ILE:HA	3:A:187:PHE:CD2	2.56	0.40
3:A:628:LYS:HA	3:A:632:LYS:HD3	2.04	0.40
3:A:684:ASN:HA	3:A:687:ASP:OD2	2.21	0.40
4:D:144:ALA:O	4:D:147:LYS:HG3	2.21	0.40
1:B:26:GLU:OE2	1:B:59:PHE:HB2	2.20	0.40
1:B:342:LYS:HG2	1:B:344:HIS:CE1	2.57	0.40
1:B:786:GLU:O	1:B:789:ASN:HB2	2.21	0.40
1:B:800:MET:CE	1:B:804:ARG:HE	2.33	0.40
1:B:1116:PRO:HA	1:B:1121:ARG:NH2	2.36	0.40
1:B:1197:VAL:O	1:B:1201:LEU:HG	2.21	0.40
1:B:1279:VAL:HB	1:B:1281:HIS:CE1	2.56	0.40
1:B:1485:GLU:N	1:B:1485:GLU:CD	2.80	0.40
1:B:1516:GLU:HG3	1:B:1520:GLU:OE1	2.21	0.40
1:B:1524:LEU:HD12	1:B:1525:THR:N	2.36	0.40
1:B:1531:ASN:O	1:B:1535:GLN:HG3	2.22	0.40
1:B:1557:PRO:CB	1:B:1562:GLY:H	2.33	0.40
2:C:147:LYS:C	2:C:150:GLY:H	2.29	0.40
1:F:298:CYS:N	1:F:325:ALA:O	2.53	0.40
1:F:626:ILE:HD12	1:F:633:GLN:NE2	2.36	0.40
1:F:640:LEU:HD11	1:F:657:LEU:HD21	2.03	0.40
1:F:759:ALA:O	1:F:763:LEU:HG	2.20	0.40
1:F:854:ARG:HG3	1:F:898:ASP:OD1	2.20	0.40
1:F:929:MET:CE	1:F:964:MET:HE2	2.52	0.40
1:F:943:MET:O	1:F:950:ILE:HD12	2.22	0.40
1:F:1458:GLU:N	1:F:1458:GLU:OE2	2.54	0.40
1:F:1495:PHE:N	1:F:1495:PHE:CD1	2.89	0.40
2:G:163:ARG:C	2:G:165:LEU:N	2.80	0.40
3:E:535:GLU:HB3	3:E:539:LYS:NZ	2.36	0.40
3:A:228:LEU:HD23	3:A:247:ILE:HG13	2.04	0.40
3:A:397:ARG:HH12	3:A:461:GLN:HG3	1.86	0.40
3:A:405:ARG:NH1	3:A:468:LYS:HZ3	2.20	0.40
4:D:124:ASP:HA	4:D:127:ARG:NE	2.35	0.40
4:D:129:LEU:HA	4:D:132:GLN:HE21	1.86	0.40
1:B:9:ARG:NE	1:B:68:GLU:O	2.52	0.40
1:B:400:TRP:CH2	4:D:127:ARG:HD2	2.57	0.40
1:B:474:ASP:HA	1:B:525:CYS:SG	2.61	0.40
1:B:616:THR:OG1	1:B:617:LYS:N	2.49	0.40
1:B:828:LYS:HA	1:B:828:LYS:HD2	1.97	0.40
1:B:861:THR:HA	1:B:864:VAL:HG12	2.04	0.40
1:B:933:LEU:O	1:B:934:ARG:C	2.64	0.40
1:B:1342:LEU:CD1	1:F:1346:ALA:HB2	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1406:GLU:HG3	1:B:1425:TYR:CE1	2.56	0.40
1:B:1564:SER:HA	1:B:1567:GLU:HG2	2.03	0.40
1:B:1611:LEU:HD12	1:B:1615:LEU:CB	2.50	0.40
2:C:2:GLN:HE22	2:C:4:ILE:HG12	1.87	0.40
2:C:114:GLY:O	2:C:115:THR:OG1	2.29	0.40
2:C:124:ASP:O	2:C:128:LYS:HD3	2.21	0.40
1:F:10:GLN:HG2	1:F:37:ILE:HB	2.03	0.40
1:F:41:TYR:HD2	1:F:44:TRP:N	2.20	0.40
1:F:180:THR:HG22	1:F:181:ILE:HD13	2.02	0.40
1:F:228:PHE:CD2	1:F:399:LEU:HD12	2.56	0.40
1:F:568:ASP:OD2	1:F:569:LEU:N	2.53	0.40
1:F:1424:GLN:H	1:F:1424:GLN:HG3	1.70	0.40
1:F:1436:SER:HB2	1:F:1454:TYR:O	2.21	0.40
1:F:1468:PHE:O	1:F:1469:ARG:HD3	2.22	0.40
2:G:78:PHE:C	2:G:79:LEU:HD22	2.45	0.40
2:G:94:ARG:HA	2:G:98:TYR:HB3	2.03	0.40
2:G:174:ARG:C	2:G:177:LEU:H	2.29	0.40
3:A:286:ILE:HG21	3:A:441:PHE:CE2	2.56	0.40
3:A:299:VAL:HA	3:A:302:PHE:HD2	1.87	0.40
3:A:302:PHE:CG	3:A:430:VAL:HA	2.56	0.40
3:A:690:LEU:HA	3:A:690:LEU:HD12	1.78	0.40
1:B:18:ASN:OD1	3:A:536:LEU:HD12	2.21	0.40
1:B:244:ALA:HB2	1:B:257:ASN:HA	2.04	0.40
1:B:259:LEU:HD23	1:B:490:TYR:HB3	2.04	0.40
1:B:683:MET:HE3	1:B:686:SER:N	2.35	0.40
1:B:841:CYS:O	1:B:844:ILE:N	2.55	0.40
1:B:1177:LEU:HD22	1:B:1181:ARG:HH12	1.87	0.40
1:B:1490:THR:OG1	1:B:1506:GLN:HB3	2.22	0.40
1:B:1516:GLU:O	1:B:1520:GLU:OE1	2.39	0.40
1:B:1562:GLY:O	1:B:1565:ASN:HB2	2.22	0.40
1:F:143:GLU:O	1:F:147:LYS:HD3	2.21	0.40
1:F:195:GLU:HA	1:F:198:ILE:HG22	2.03	0.40
1:F:233:CYS:HB2	1:F:397:GLN:HA	2.04	0.40
1:F:345:PHE:HD1	1:F:400:TRP:CE2	2.40	0.40
1:F:637:LEU:O	1:F:641:LEU:HG	2.22	0.40
1:F:753:LEU:O	1:F:757:LEU:HD23	2.22	0.40
1:F:771:ARG:O	1:F:774:TYR:HB3	2.21	0.40
1:F:1125:ILE:CD1	1:F:1172:LEU:HA	2.51	0.40
1:F:1200:LEU:HD23	1:F:1230:PHE:HE2	1.86	0.40
1:F:1372:PHE:CZ	1:F:1424:GLN:HB3	2.56	0.40
2:G:16:LYS:O	2:G:19:LEU:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:560:THR:HG22	3:E:562:PHE:HE1	1.86	0.40
3:A:637:VAL:HB	3:A:655:ILE:HD12	2.03	0.40
4:D:155:LEU:CD1	4:D:168:VAL:HA	2.51	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	B	1640/1648 (100%)	1416 (86%)	224 (14%)	0	100	100
1	F	1640/1648 (100%)	1466 (89%)	174 (11%)	0	100	100
2	C	175/184 (95%)	156 (89%)	19 (11%)	0	100	100
2	G	175/184 (95%)	157 (90%)	18 (10%)	0	100	100
3	A	725/733 (99%)	657 (91%)	68 (9%)	0	100	100
3	E	197/733 (27%)	162 (82%)	35 (18%)	0	100	100
4	D	179/203 (88%)	161 (90%)	18 (10%)	0	100	100
All	All	4731/5333 (89%)	4175 (88%)	556 (12%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	B	1495/1497 (100%)	1495 (100%)	0	100	100
1	F	1495/1497 (100%)	1495 (100%)	0	100	100
2	C	153/157 (98%)	153 (100%)	0	100	100
2	G	153/157 (98%)	153 (100%)	0	100	100
3	A	662/664 (100%)	662 (100%)	0	100	100
3	E	184/664 (28%)	184 (100%)	0	100	100
4	D	157/174 (90%)	157 (100%)	0	100	100
All	All	4299/4810 (89%)	4299 (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 (89) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	30	GLN
1	B	36	HIS
1	B	89	GLN
1	B	171	ASN
1	B	230	ASN
1	B	250	GLN
1	B	265	ASN
1	B	278	GLN
1	B	419	HIS
1	B	452	HIS
1	B	621	GLN
1	B	652	HIS
1	B	653	ASN
1	B	871	GLN
1	B	885	GLN
1	B	904	GLN
1	B	924	HIS
1	B	946	GLN
1	B	968	HIS
1	B	1000	ASN
1	B	1010	ASN
1	B	1013	GLN
1	B	1149	ASN
1	B	1179	HIS
1	B	1203	ASN
1	B	1293	GLN

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Mol	Chain	Res	Type
1	B	1517	ASN
1	B	1536	HIS
2	C	39	ASN
1	F	51	GLN
1	F	89	GLN
1	F	119	GLN
1	F	154	HIS
1	F	199	GLN
1	F	227	ASN
1	F	230	ASN
1	F	257	ASN
1	F	278	GLN
1	F	299	GLN
1	F	305	HIS
1	F	334	HIS
1	F	376	ASN
1	F	414	GLN
1	F	537	GLN
1	F	556	ASN
1	F	567	HIS
1	F	633	GLN
1	F	646	ASN
1	F	649	ASN
1	F	670	GLN
1	F	713	ASN
1	F	723	HIS
1	F	743	ASN
1	F	793	GLN
1	F	799	ASN
1	F	825	ASN
1	F	889	GLN
1	F	937	ASN
1	F	946	GLN
1	F	1013	GLN
1	F	1022	ASN
1	F	1035	GLN
1	F	1526	ASN
1	F	1614	GLN
3	E	551	GLN
3	E	605	GLN
3	E	633	GLN
3	A	52	GLN

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Mol	Chain	Res	Type
3	A	86	GLN
3	A	87	GLN
3	A	231	HIS
3	A	248	ASN
3	A	287	ASN
3	A	288	ASN
3	A	293	GLN
3	A	340	ASN
3	A	383	ASN
3	A	391	HIS
3	A	402	ASN
3	A	439	ASN
3	A	464	ASN
3	A	550	GLN
3	A	583	HIS
3	A	633	GLN
3	A	703	ASN
4	D	76	ASN
4	D	98	HIS
4	D	140	GLN
4	D	178	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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](#)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The

Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
6	GTP	D	202	5	26,34,34	1.11	2 (7%)	32,54,54	1.70	7 (21%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
6	GTP	D	202	5	-	2/18/38/38	0/3/3/3

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	D	202	GTP	C5-C6	-3.95	1.39	1.47
6	D	202	GTP	C2-N3	2.15	1.38	1.33

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	D	202	GTP	PA-O3A-PB	-5.03	115.55	132.83
6	D	202	GTP	PB-O3B-PG	-3.40	121.15	132.83
6	D	202	GTP	C5-C6-N1	3.20	119.61	113.95
6	D	202	GTP	C3'-C2'-C1'	2.95	105.42	100.98
6	D	202	GTP	C8-N7-C5	2.88	108.48	102.99
6	D	202	GTP	C2-N1-C6	-2.88	119.80	125.10
6	D	202	GTP	O6-C6-C5	-2.22	120.03	124.37

There are no chirality outliers.

All (2) torsion outliers are listed below:

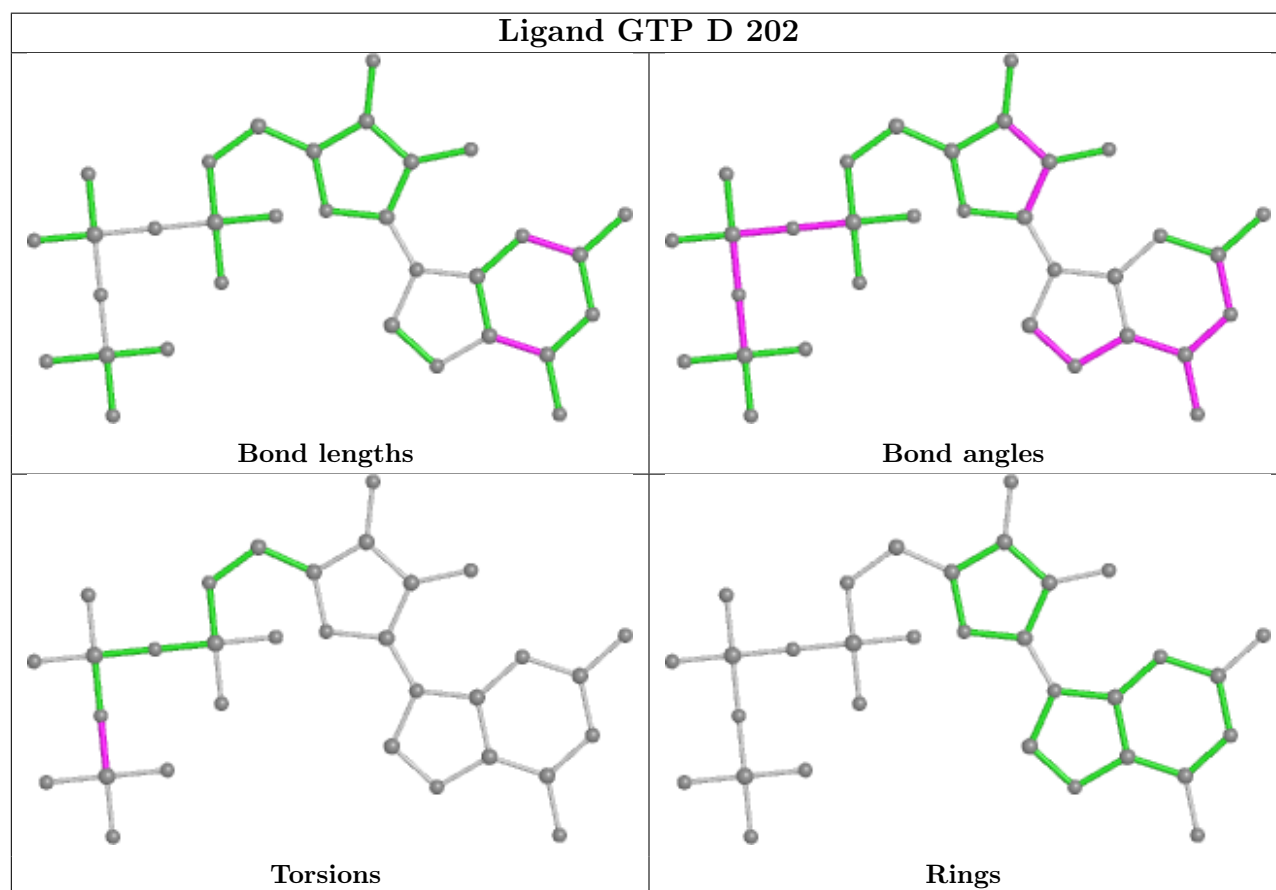
Mol	Chain	Res	Type	Atoms
6	D	202	GTP	PB-O3B-PG-O3G
6	D	202	GTP	PB-O3B-PG-O1G

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	D	202	GTP	3	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

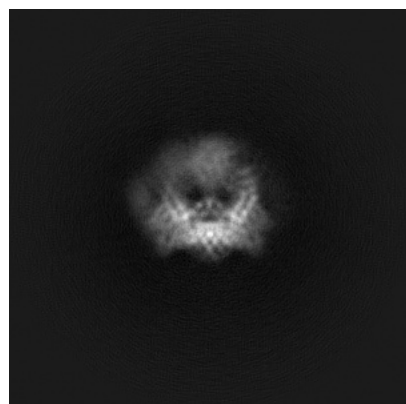
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-60136. These allow visual inspection of the internal detail of the map and identification of artifacts.

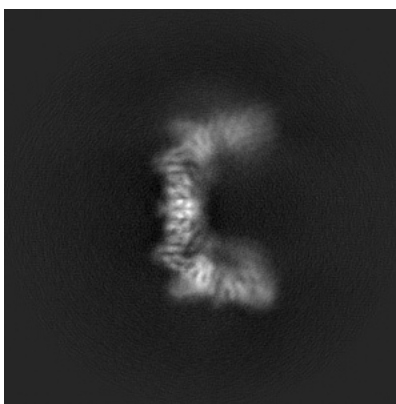
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

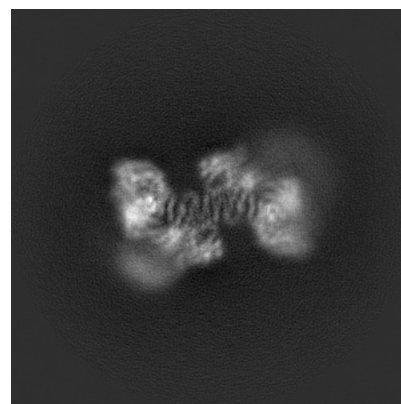
6.1.1 Primary map



X

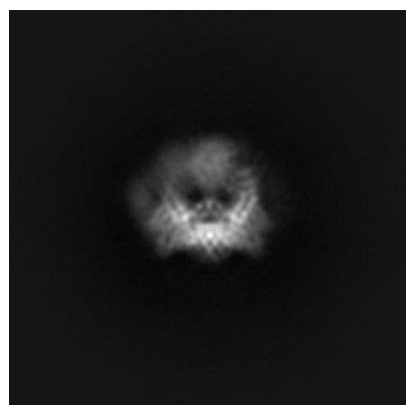


Y

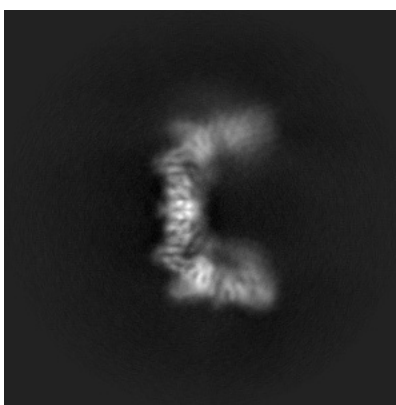


Z

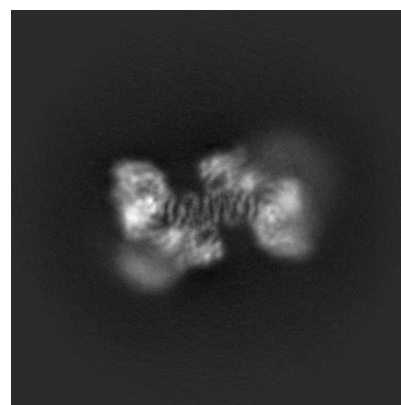
6.1.2 Raw map



X



Y

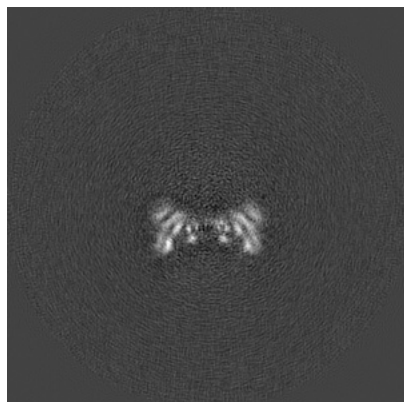


Z

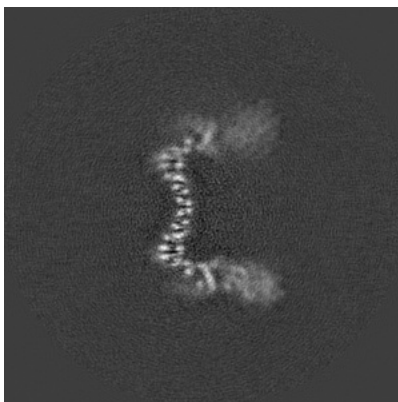
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

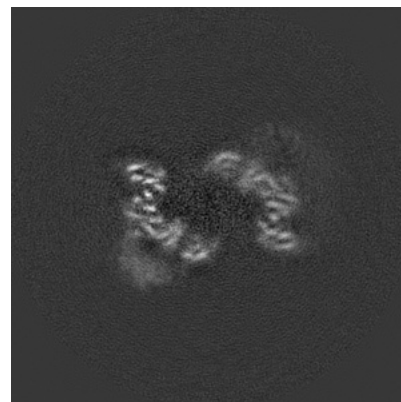
6.2.1 Primary map



X Index: 170

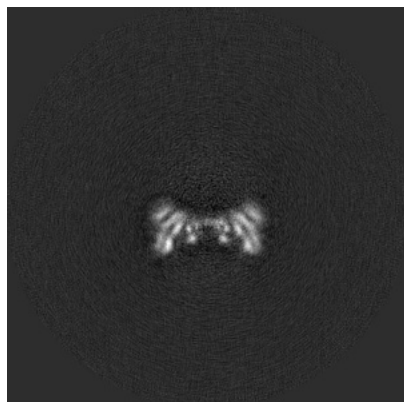


Y Index: 170

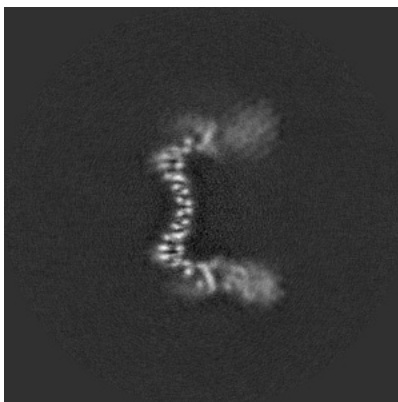


Z Index: 170

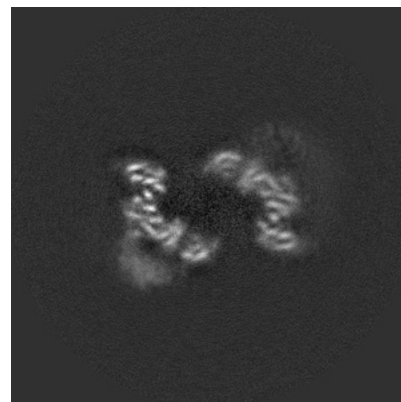
6.2.2 Raw map



X Index: 170



Y Index: 170

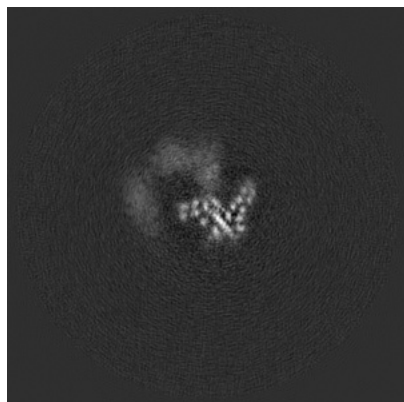


Z Index: 170

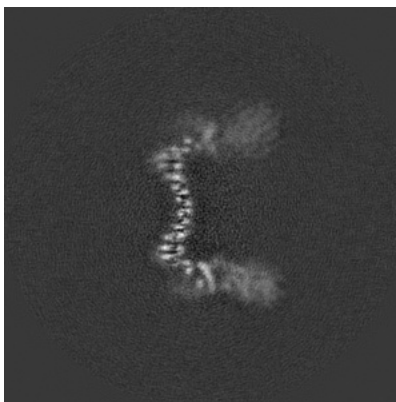
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

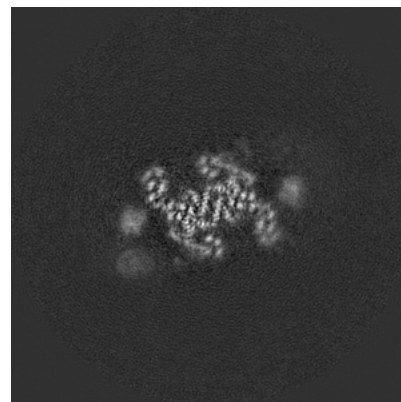
6.3.1 Primary map



X Index: 118

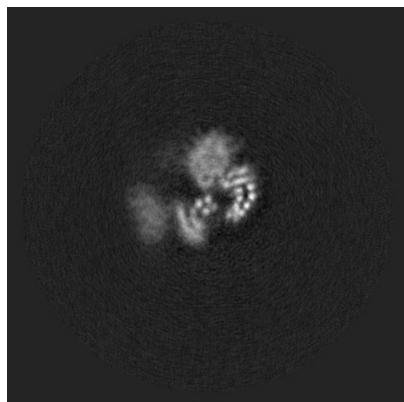


Y Index: 169

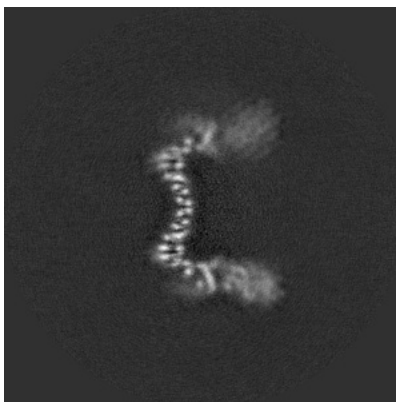


Z Index: 149

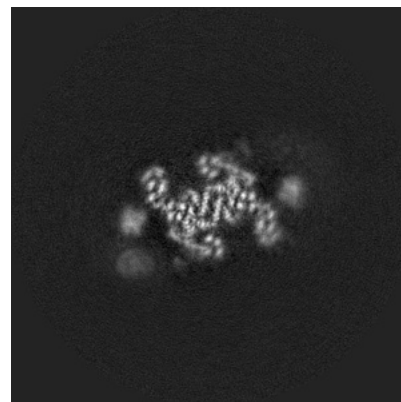
6.3.2 Raw map



X Index: 104



Y Index: 170

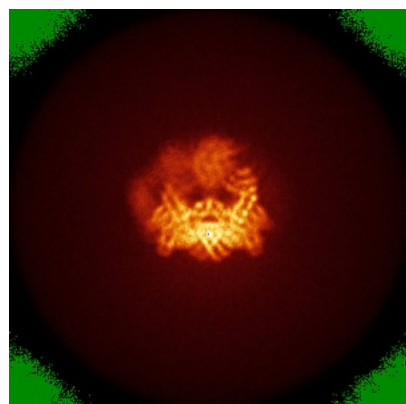


Z Index: 149

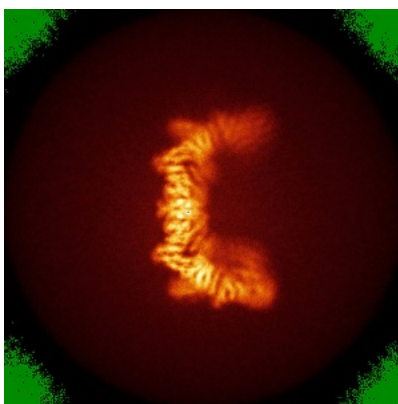
The images above show the largest variance slices of the map in three orthogonal directions.

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

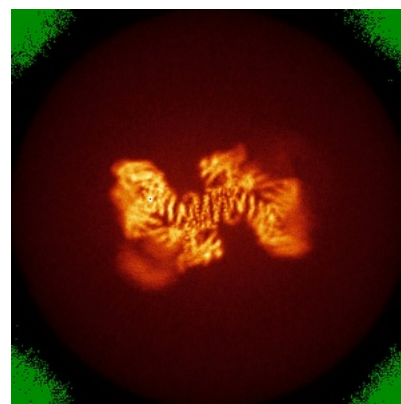
6.4.1 Primary map



X



Y



Z

6.4.2 Raw map



X



Y

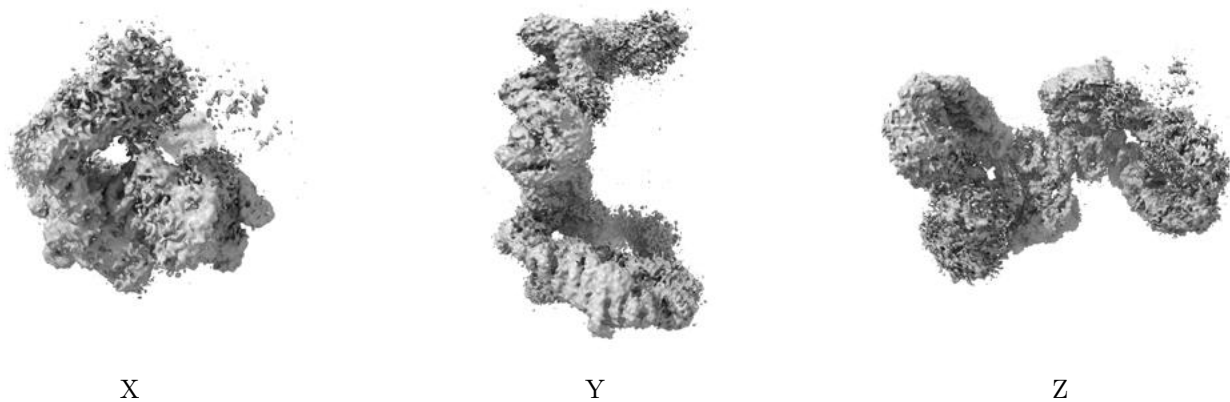


Z

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.

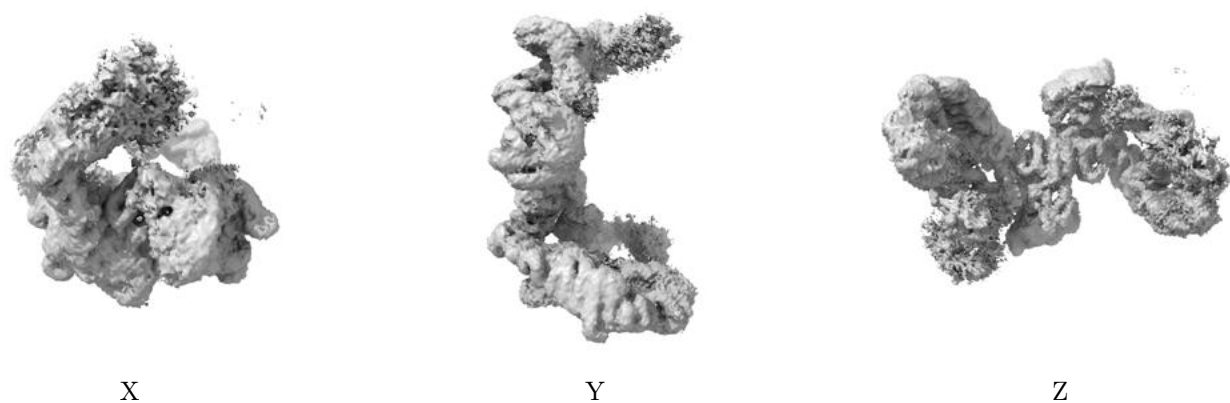
6.5 Orthogonal surface views [i](#)

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.

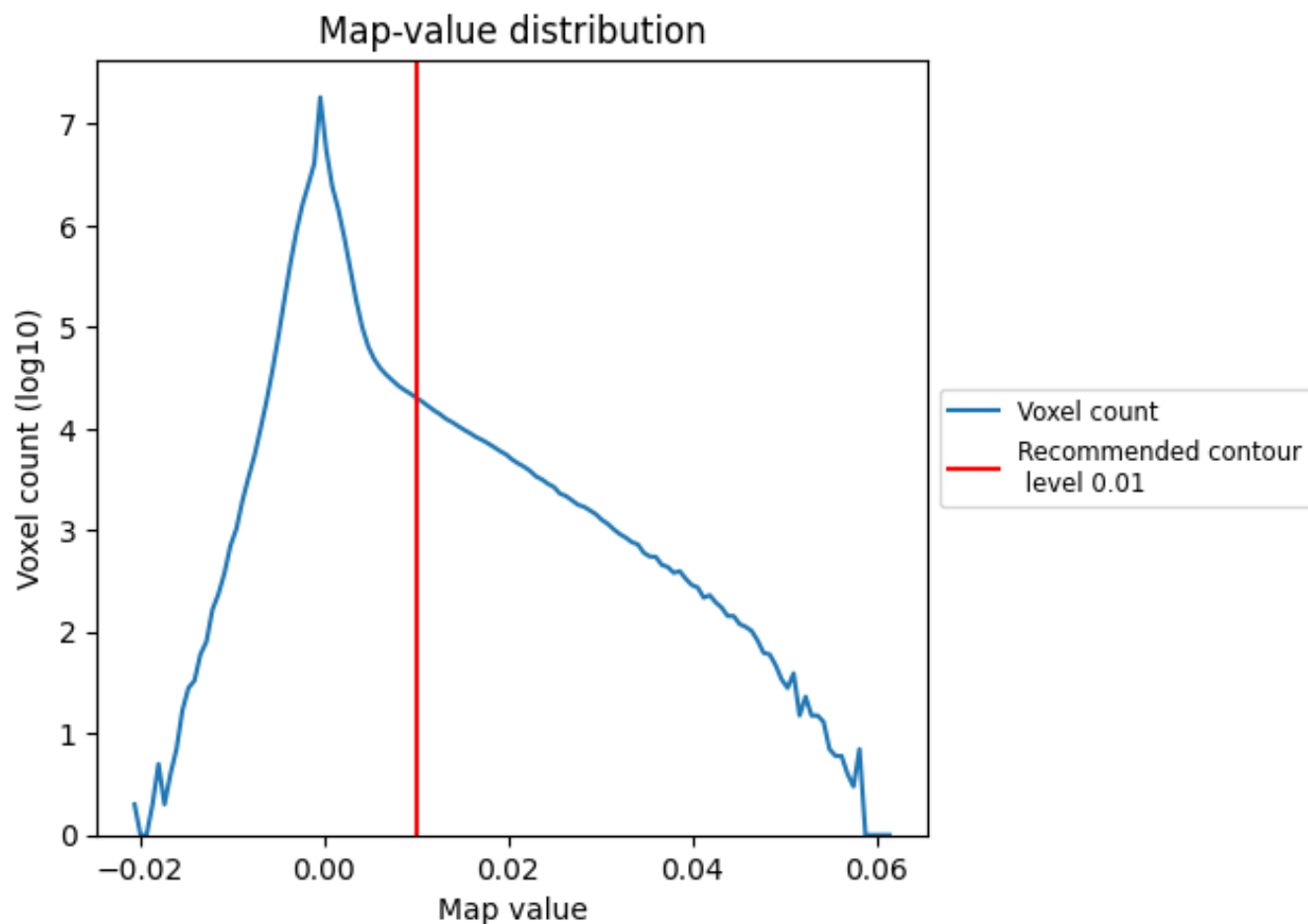
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

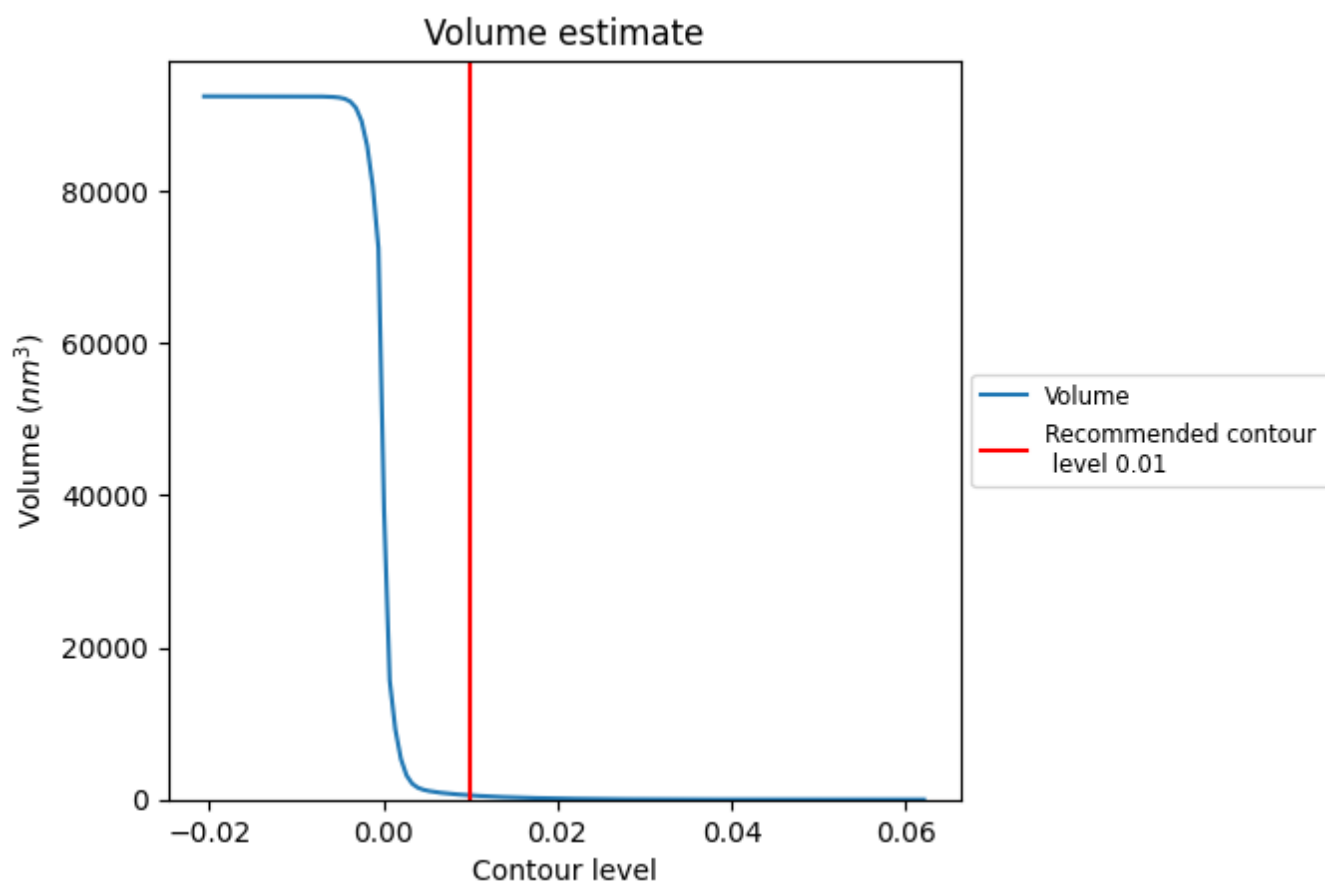
This section contains the results of statistical analysis of the map.

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.

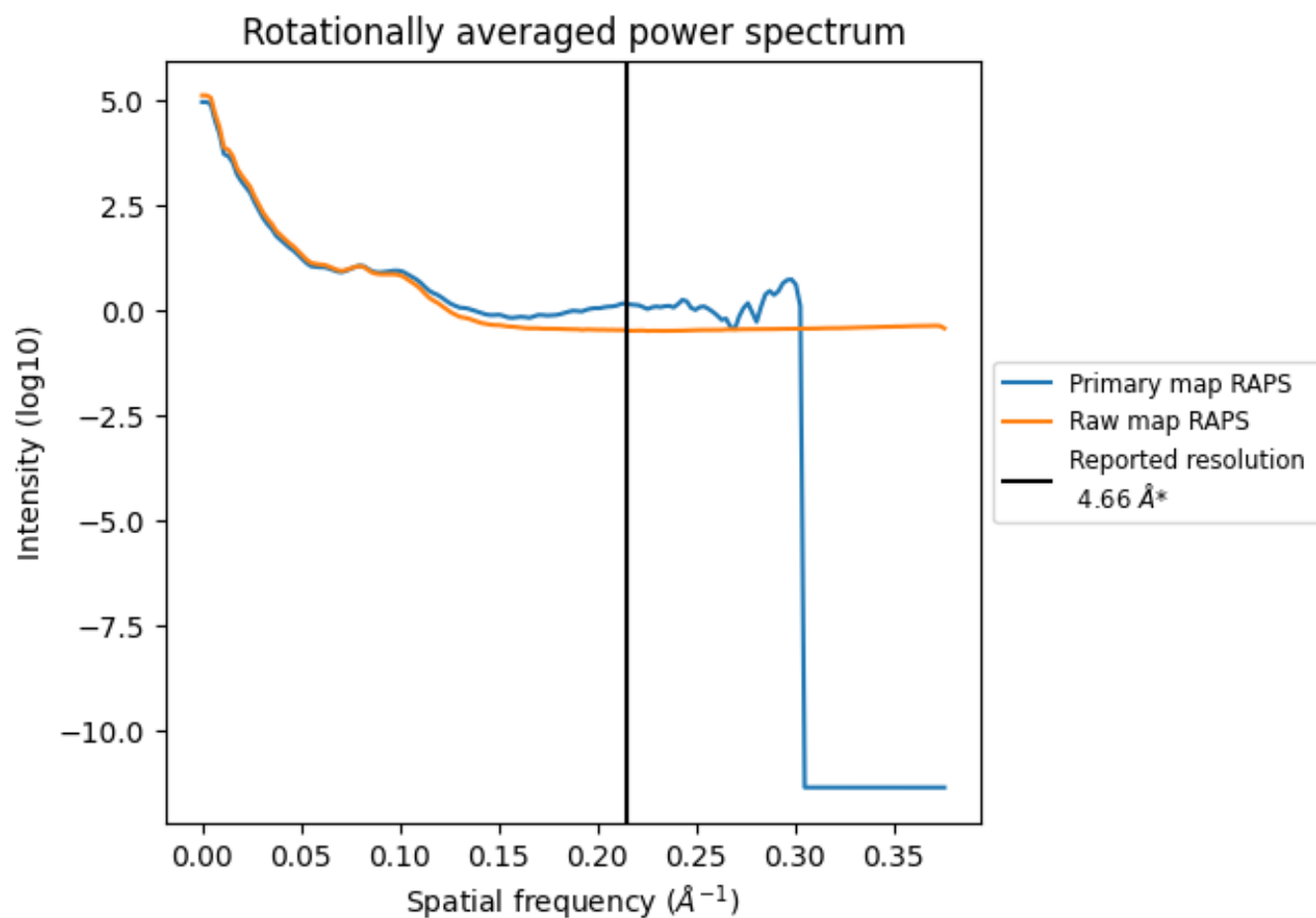
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 551 nm^3 ; this corresponds to an approximate mass of 498 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 ⓘ

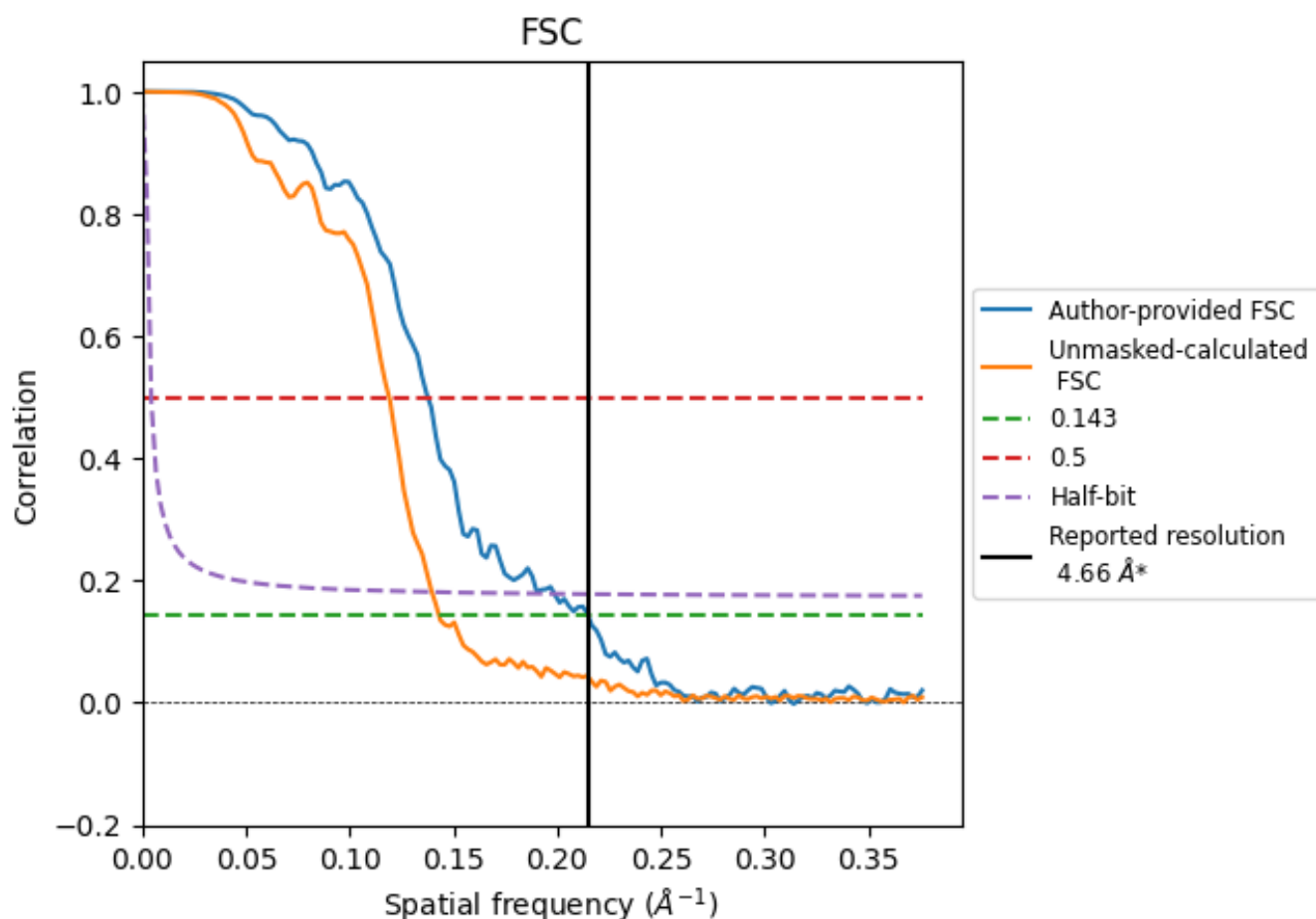


*Reported resolution corresponds to spatial frequency of 0.215 Å⁻¹

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 $0.215 \text{ \AA}^{-1}$

8.2 Resolution estimates [i](#)

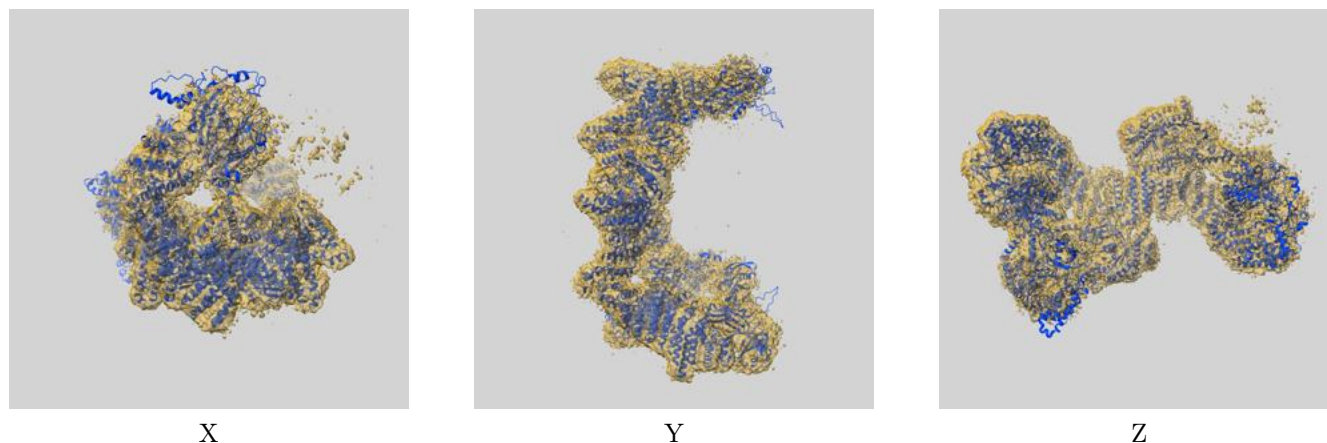
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.66	-	-
Author-provided FSC curve	4.65	7.27	5.03
Unmasked-calculated*	6.99	8.40	7.16

*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 6.99 differs from the reported value 4.66 by more than 10 %

9 Map-model fit [i](#)

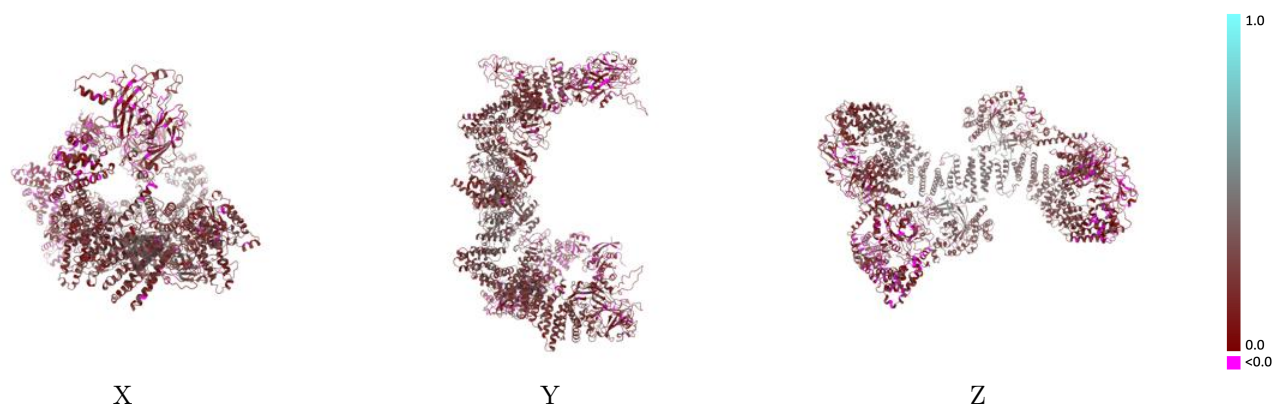
This section contains information regarding the fit between EMDB map EMD-60136 and PDB model 8ZJ2. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



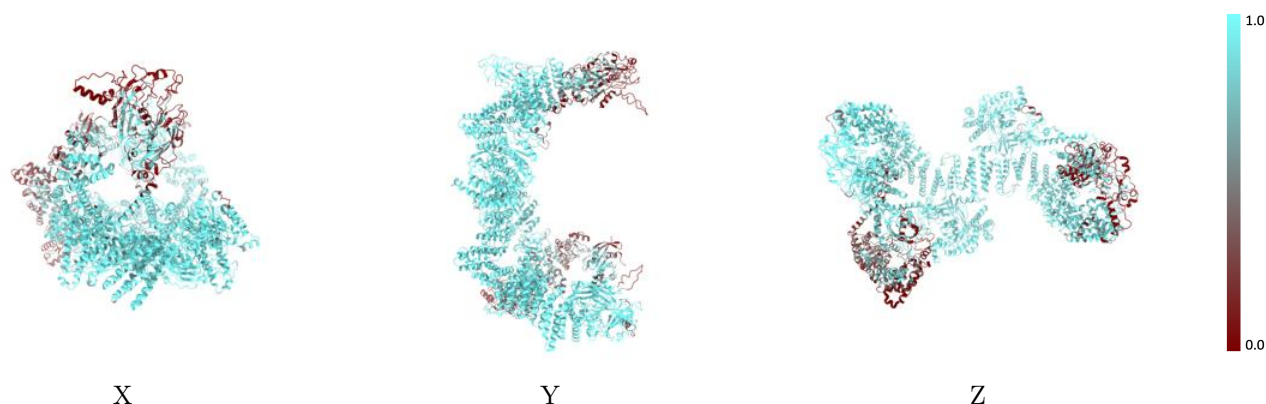
The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



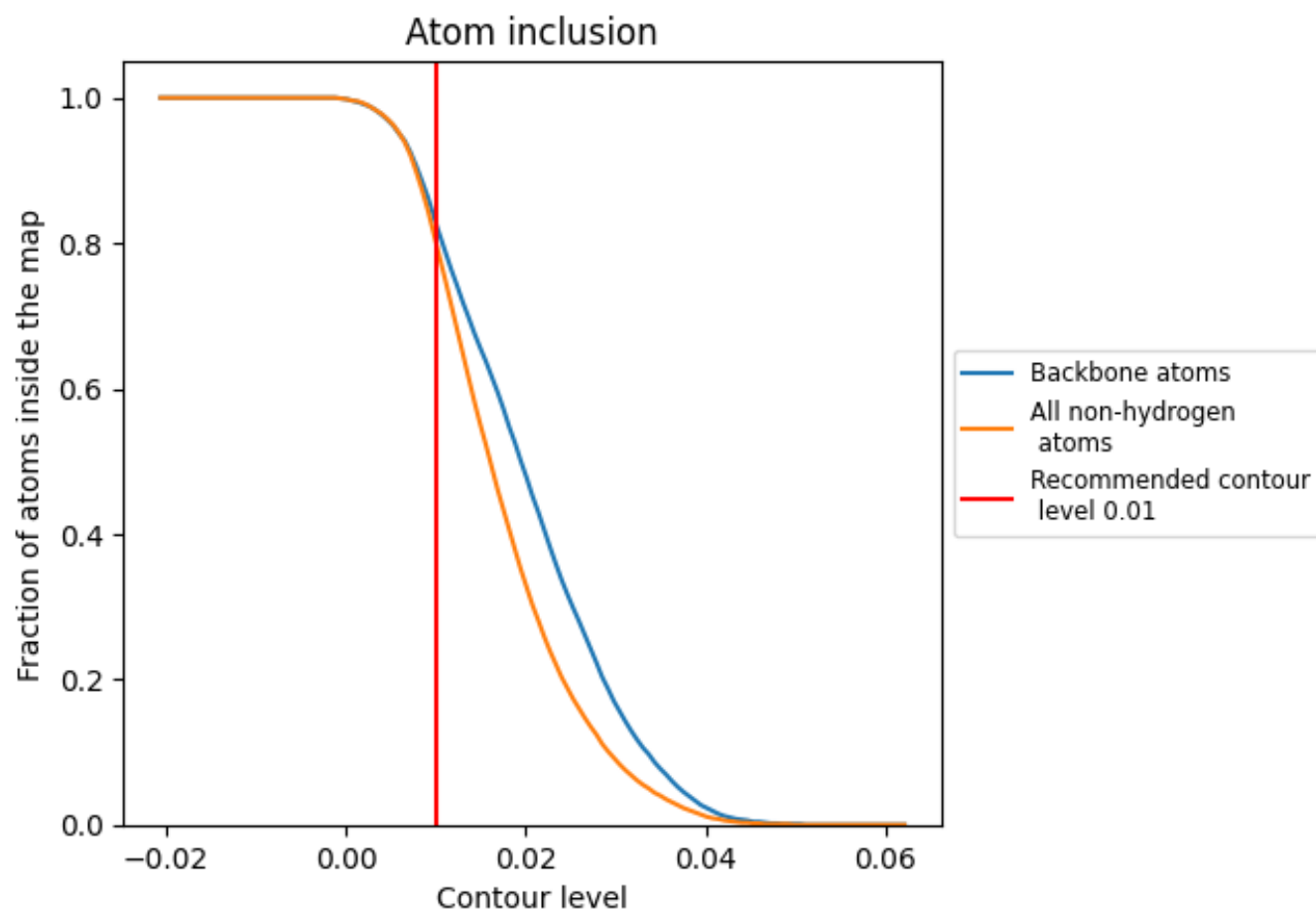
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 83% of all backbone atoms, 80% 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	0.8010	0.2310
A	0.4950	0.1540
B	0.9400	0.2700
C	0.9660	0.3030
D	0.6550	0.1510
E	0.8810	0.2070
F	0.7700	0.2260
G	0.9550	0.2650

1.0

0.0

<0.0