



Full wwPDB EM Validation Report ⓘ

May 28, 2026 – 04:22 PM JST

PDB ID : 9VM6 / pdb_00009vm6
EMDB ID : EMD-65178
Title : Structure of DOCK6 tetramer
Authors : Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Yonemochi, M.;
Hanada, K.; Shirouzu, M.
Deposited on : 2025-06-27
Resolution : 4.27 Å(reported)

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

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

A user guide is available at

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

The types of validation reports are described at

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

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

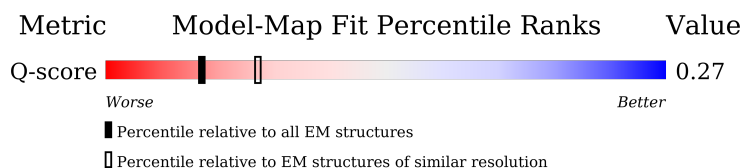
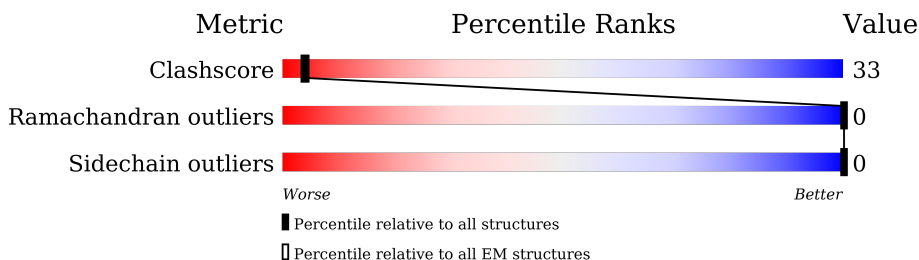
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.27 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	4567 (3.77 - 4.76)

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

Mol	Chain	Length	Quality of chain
1	A	2053	
1	B	2053	
1	C	2053	
1	D	2053	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 53700 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	C	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	D	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		
1	B	1683	Total	C	N	O	S	0	0
			13425	8576	2321	2469	59		

There are 24 discrepancies between the modelled and reference sequences:

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

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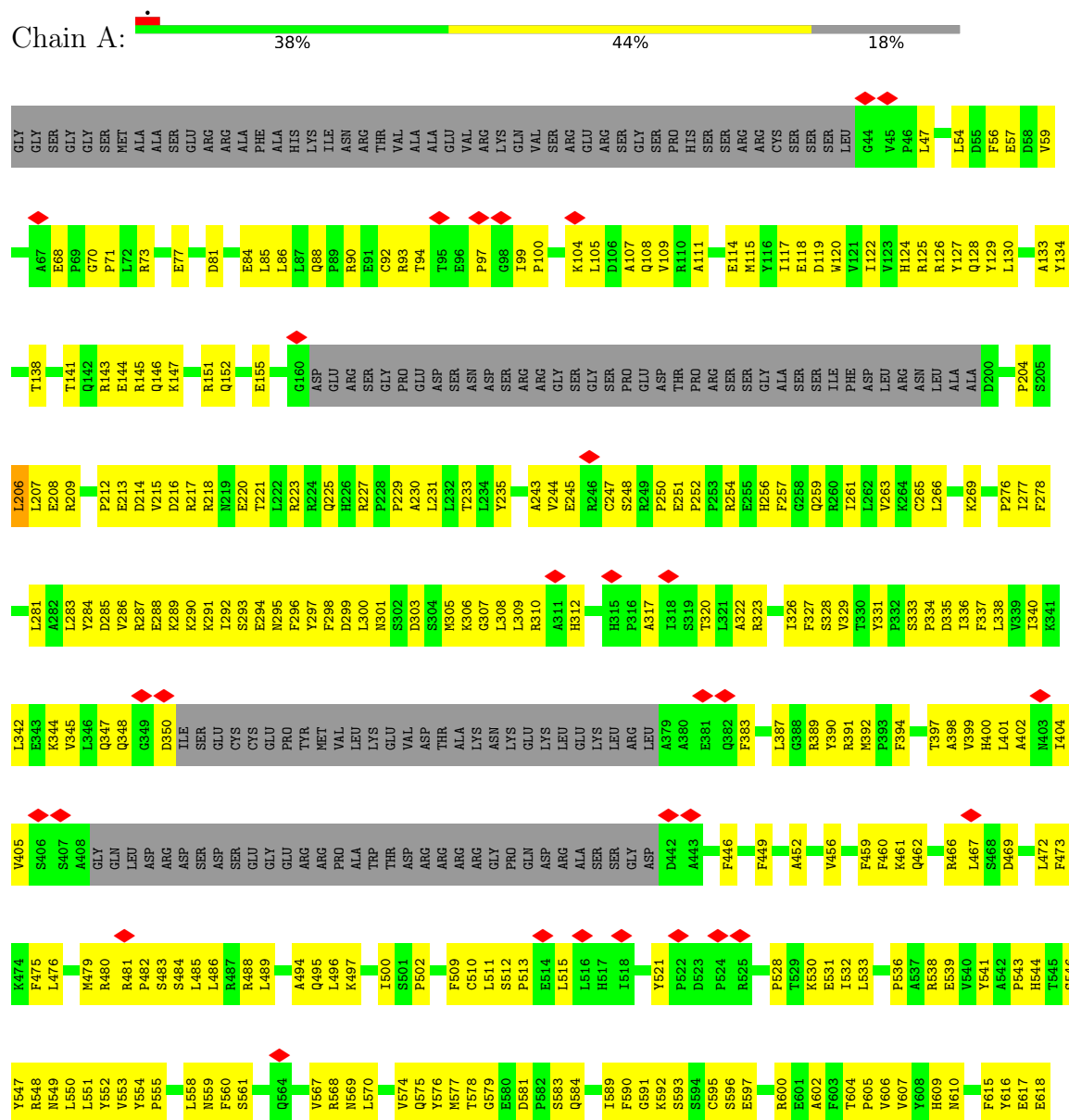
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Chain	Residue	Modelled	Actual	Comment	Reference
B	-1	GLY	-	expression tag	UNP Q96HP0
B	0	SER	-	expression tag	UNP Q96HP0

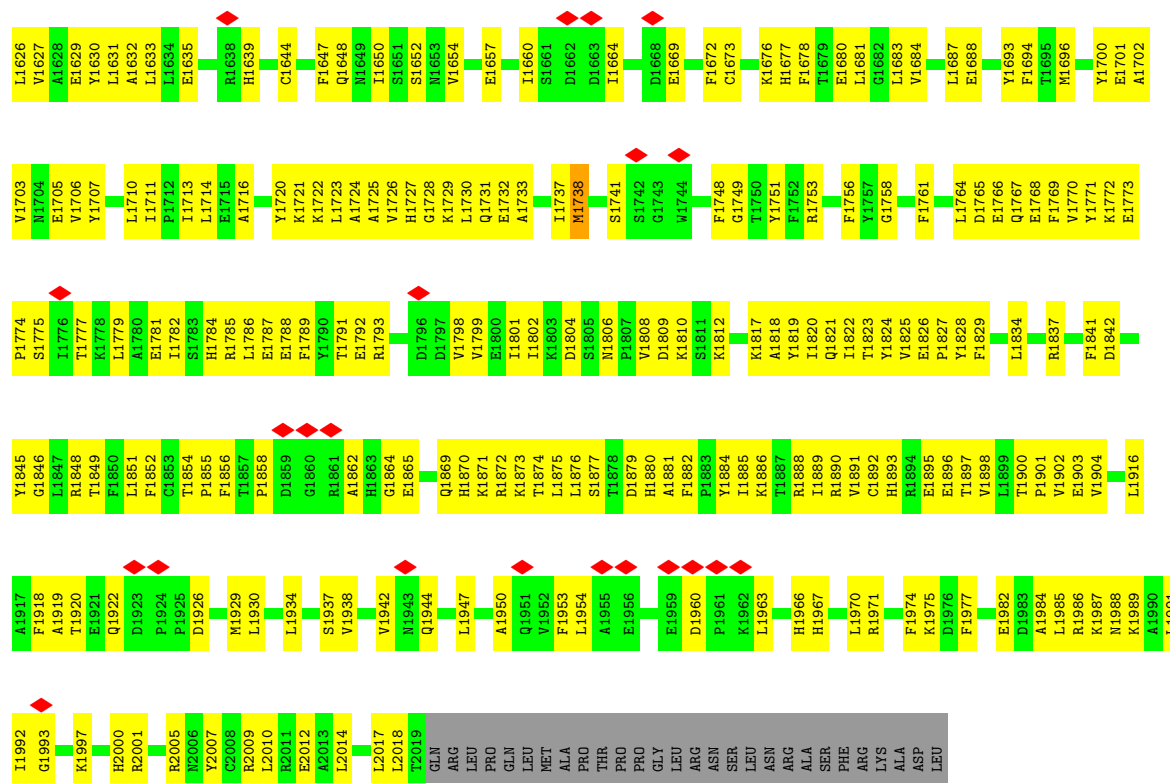
3 Residue-property plots

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 6

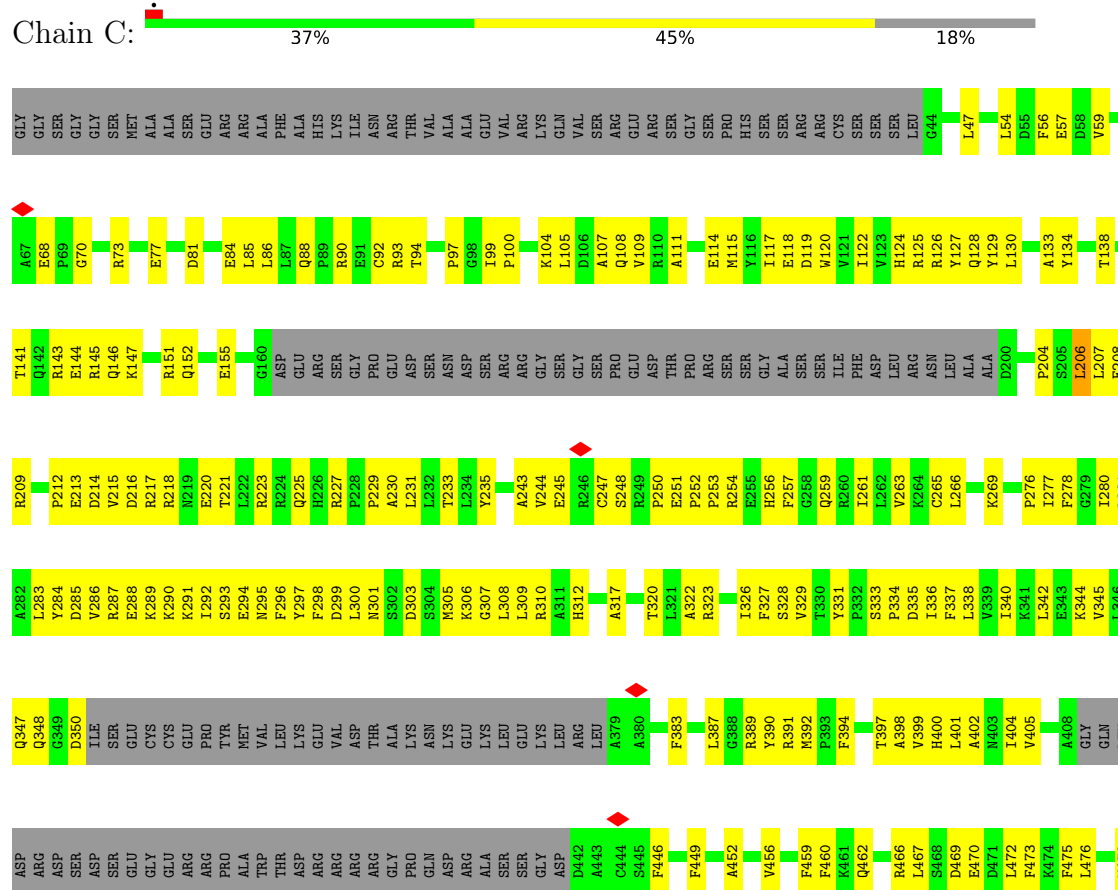


L1558	R1490	V1420	TRP	C1291	ALA	A1153	PRO	V987	K906	E946	P769	S886	F619
I1561	Q1491	L1421	ARG	L1292	GLY	E1154	ALA	E988	L907	P947	E770	T889	K620
L1562	M1492	Y1422	LYS	A1293	GLY	A1155	SER	H992	L908	P947	P771	T889	L621
L1563	F1493	S1423	SER	A1294	PRO	T1156	PRO	H992	H909	P947	L772	P690	H622
D1564	E1494	L1424	VAL	K1298	LEU	V1157	SER	N994	E910	L993	V773	D691	L623
L1565	T1495	G1425	THR	K1299	ALA	K1158	PRO	F1000	E911	L993	A774	V692	P624
V1566	G1496	S1426	HIS	G1299	PRO	A1159	SER	F1000	L912	ASP	F775	A693	V627
K1567	H1497	A1427	TRP	K1300	GLY	A1160	VAL	L1001	A913	GLY	S776	L694	T628
M1568	L1498	Q1428	LYS	K1301	SER	V1161	SER	L1001	L914	ALA	V779	P695	E629
K1569	F1499	F1431	GLN	F1303	ARG	E1162	THR	D1003	Q916	PRO	L780	G696	N630
Q1572	R1500	F1432	THR	GLU	ALA	L1164	THR	L1004	Q916	VAL	L783	G697	H631
V1570	V1502	F1433	SER	ILE	THR	L1165	SER	L1005	V917	THR	V784	B698	H632
K1503	K1503	G1434	ARG	GLN	SER	L1166	GLN	S1006	V918	VAL	V784	K699	L633
M1504	M1504	H1435	VAL	ASN	SER	P1167	SER	V1008	R924	GLN	L786	L634	L635
Q1505	Q1505	G1436	ASP	GLY	THR	L1168	SER	V1008	L928	ALA	L787	V701	F635
L1506	L1506	L1437	LYS	THR	PHE	S1170	THR	R1010	L928	ALA	V788	G702	T636
T1507	T1507	A1438	PRO	THR	SER	I1171	SER	G1011	W932	LEU	V789	H703	F637
M1508	M1508	T1439	THR	PHE	SER	T1175	SER	F1012	W933	ALA	I793	V706	Y638
S1509	S1509	Q1440	ALA	LYS	GLY	R1178	GLY	F1013	F934	ARG	V707	F707	H639
S1511	S1511	H1376	ARG	SER	ALA	L1179	GLY	F1014	F935	GLY	Q796	S708	P644
L1512	L1512	L1379	LEU	ASP	GLY	E1184	GLY	S1015	Q936	SER	V797	V709	P646
L1513	L1513	W1383	LEU	LYS	GLY	E1184	GLY	V1017	L937	GLY	V798	L711	G647
L1514	L1514	N1383	ASP	MET	ALA	E1184	GLY	R1018	W939	PRO	N799	L711	T648
L1515	L1515	T1386	LYS	LYS	ALA	E1184	GLY	H1020	S941	ALA	G801	V717	A649
F1520	F1520	E1387	LEU	ALA	GLY	E1184	GLY	Y1021	M942	LEU	R802	V717	L650
S1521	S1521	E1387	LEU	ALA	GLY	E1184	GLY	K1022	A943	TVR	D721	D721	E651
E1522	E1522	L1388	GLU	GLU	GLN	E1184	GLY	Q1023	L946	ALA	F805	L724	E651
E1523	E1523	S1389	GLU	GLU	ARG	E1184	GLY	V1024	L947	ALA	M808	D725	T652
H1524	H1524	L1390	GLU	ALA	SER	E1184	GLY	A1025	L947	ARG	V854	K726	P653
L1525	L1525	E1457	ILE	ILE	ARG	E1184	GLY	T1026	R951	SER	V811	K726	G655
L1596	L1596	V1392	LEU	LEU	LEU	E1184	GLY	S1030	T954	SER	L730	L730	F656
R1527	R1527	L1393	GLY	GLY	ALA	E1184	GLY	L1038	T954	ILE	V731	V731	E657
S1528	S1528	D1394	THR	THR	MET	E1184	GLY	L1038	P955	SER	L814	L814	W658
L1529	L1529	T1395	ILE	ILE	LEU	E1184	GLY	T1039	P955	SER	H817	H732	I659
K1530	K1530	L1396	GLY	ALA	ASP	E1184	GLY	L1040	K957	SER	S818	H733	P660
T1531	T1531	E1397	ALA	ALA	SER	E1184	GLY	M1041	L958	ASN	L819	L734	
L1532	L1532	I1398	ARG	ARG	ASP	E1184	GLY	R1042	R959	PRO	R742	R742	Q663
L1533	L1533	V1400	GLN	GLN	THR	E1184	GLY	F1044	F960	ASP	L743	L743	H664
T1534	T1534	Q1401	GLU	GLU	GLY	E1184	GLY	F1044	F960	ASP	A925	K744	G665
A1604	A1604	T1402	MET	VAL	GLY	E1184	GLY	T1045	F964	ALA	G827	D745	L667
D1539	D1539	V1403	ARG	ARG	GLU	E1184	GLY	P1123	L965	VAL	T746	T746	R666
M1540	M1540	L1404	ARG	ARG	GLY	E1184	GLY	F1129	L965	ALA	V747	V747	L668
G1541	G1541	S1405	SER	SER	ILE	E1184	GLY	L1131	L971	ALA	Q831	Q831	P671
R1543	R1543	E1407	ARG	ARG	ALA	E1184	GLY	L1048	L971	GLY	S749	S749	P672
F1547	F1547	R1478	GLU	GLU	THR	E1184	GLY	H1051	S974	SER	N752	N752	L674
A1548	A1548	T1479	SER	ARG	THR	E1184	GLY	H1052	S974	SER	Q755	Q755	S677
E1549	E1549	H1480	PRO	PRO	ILE	E1184	GLY	H1053	G976	VAL	D896	D896	V678
Q1550	Q1550	S1411	PHE	PHE	ASN	E1184	GLY	L1057	L977	D897	Q755	Q755	V678
V1551	V1551	V1412	GLY	GLY	PRO	E1184	GLY	N1058	E978	E898	L757	L757	D679
Q1552	Q1552	L1413	ASN	ASN	SER	E1184	GLY	L1059	R982	V899	H837	H837	Q680
D1553	D1553	G1414	PRO	PRO	VAL	E1184	GLY	L1059	R982	V899	Y838	Y838	Q681
L1554	L1554	Y1486	GLU	GLU	ALA	E1184	GLY	L1064	V983	S900	S760	S760	P681
M1555	M1555	L1487	ASN	ASN	MET	E1184	GLY	S1065	H984	R901	L761	L761	P682
F1556	F1556	V1416	VAL	VAL	ALA	E1184	GLY	L1064	K985	I902	R841	R841	P683
N1557	N1557	M1489	ARG	ARG	ILE	E1184	GLY	Y1152	D986	L903	L764	L764	Y685

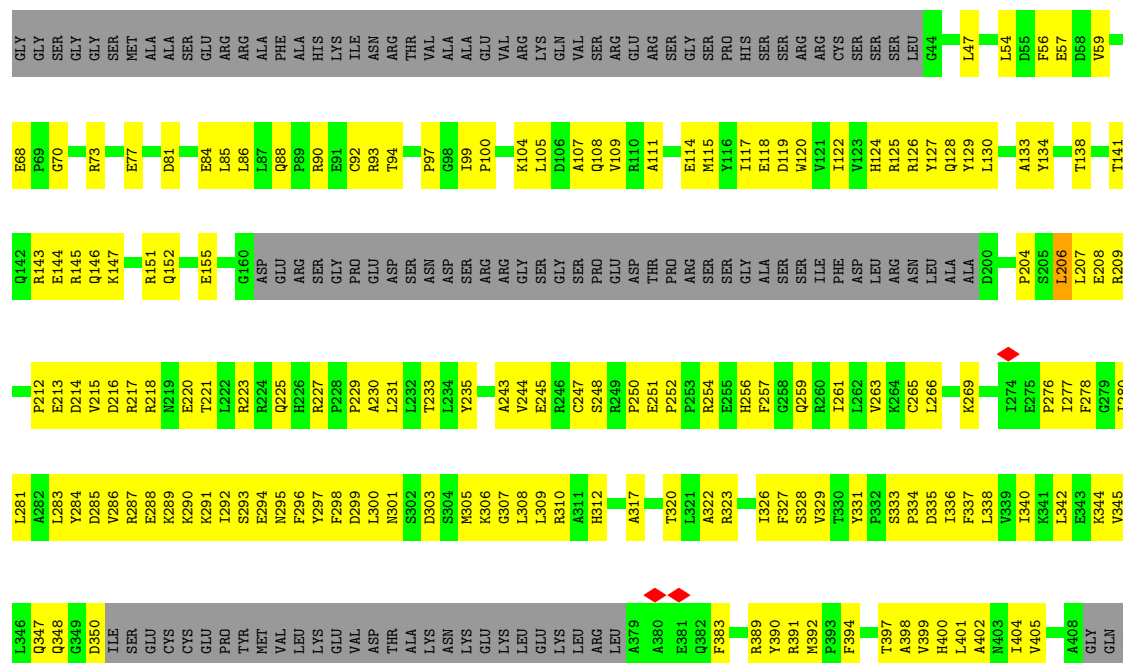


• Molecule 1: Dedicator of cytokinesis protein 6

Chain C:















4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	163250	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	49.5	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.080	Depositor
Minimum map value	-0.038	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	452.2, 452.2, 452.2	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.40	0/13741	0.55	1/18646 (0.0%)
1	B	0.40	0/13741	0.55	1/18646 (0.0%)
1	C	0.40	0/13741	0.55	1/18646 (0.0%)
1	D	0.40	0/13741	0.55	1/18646 (0.0%)
All	All	0.40	0/54964	0.55	4/74584 (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	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
All	All	0	4

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1738	MET	CB-CG-SD	-6.24	93.97	112.70
1	A	1738	MET	CB-CG-SD	-6.24	93.98	112.70
1	D	1738	MET	CB-CG-SD	-6.23	94.00	112.70
1	C	1738	MET	CB-CG-SD	-6.22	94.02	112.70

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	206	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	B	206	LEU	Peptide
1	C	206	LEU	Peptide
1	D	206	LEU	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	13425	0	13390	885	0
1	B	13425	0	13390	879	0
1	C	13425	0	13390	891	0
1	D	13425	0	13390	893	0
All	All	53700	0	53560	3506	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 33.

All (3506) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:633:LEU:HB2	1:A:659:ILE:HB	1.46	0.98
1:D:633:LEU:HB2	1:D:659:ILE:HB	1.46	0.98
1:B:633:LEU:HB2	1:B:659:ILE:HB	1.46	0.97
1:C:633:LEU:HB2	1:C:659:ILE:HB	1.46	0.96
1:C:476:LEU:HA	1:C:479:MET:HG2	1.47	0.95
1:D:466:ARG:HH22	1:D:605:PRO:HB2	1.32	0.94
1:B:476:LEU:HA	1:B:479:MET:HG2	1.47	0.94
1:C:466:ARG:HH22	1:C:605:PRO:HB2	1.32	0.94
1:D:1777:THR:HG23	1:D:1781:GLU:HB2	1.50	0.93
1:A:466:ARG:HH22	1:A:605:PRO:HB2	1.32	0.93
1:D:476:LEU:HA	1:D:479:MET:HG2	1.47	0.93
1:A:476:LEU:HA	1:A:479:MET:HG2	1.47	0.93
1:B:466:ARG:HH22	1:B:605:PRO:HB2	1.32	0.92
1:B:1777:THR:HG23	1:B:1781:GLU:HB2	1.50	0.92
1:A:1777:THR:HG23	1:A:1781:GLU:HB2	1.50	0.92
1:A:231:LEU:HB2	1:A:1262:LYS:HZ2	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1777:THR:HG23	1:C:1781:GLU:HB2	1.50	0.91
1:D:231:LEU:HB2	1:D:1262:LYS:HZ2	1.36	0.89
1:C:231:LEU:HB2	1:C:1262:LYS:HZ2	1.37	0.88
1:D:743:LEU:HG	1:D:748:LEU:HD11	1.56	0.88
1:B:231:LEU:HB2	1:B:1262:LYS:HZ2	1.38	0.88
1:B:743:LEU:HG	1:B:748:LEU:HD11	1.55	0.88
1:C:743:LEU:HG	1:C:748:LEU:HD11	1.55	0.86
1:A:743:LEU:HG	1:A:748:LEU:HD11	1.55	0.86
1:C:1091:PRO:HA	1:C:1094:THR:HG22	1.58	0.86
1:C:837:HIS:O	1:C:940:LYS:NZ	2.09	0.86
1:A:1787:GLU:HB2	1:A:1801:ILE:HD11	1.58	0.86
1:A:1091:PRO:HA	1:A:1094:THR:HG22	1.58	0.86
1:C:1720:TYR:CD2	1:D:1738:MET:HE2	2.11	0.85
1:D:837:HIS:O	1:D:940:LYS:NZ	2.09	0.85
1:A:837:HIS:O	1:A:940:LYS:NZ	2.09	0.85
1:D:1142:LEU:O	1:D:1146:HIS:ND1	2.10	0.85
1:D:1787:GLU:HB2	1:D:1801:ILE:HD11	1.58	0.85
1:B:1142:LEU:O	1:B:1146:HIS:ND1	2.10	0.85
1:B:1091:PRO:HA	1:B:1094:THR:HG22	1.58	0.84
1:A:1142:LEU:O	1:A:1146:HIS:ND1	2.10	0.84
1:C:1142:LEU:O	1:C:1146:HIS:ND1	2.10	0.84
1:C:1875:LEU:HB3	1:C:1895:GLU:HB3	1.59	0.84
1:C:1787:GLU:HB2	1:C:1801:ILE:HD11	1.58	0.84
1:B:1875:LEU:HB3	1:B:1895:GLU:HB3	1.59	0.84
1:D:1091:PRO:HA	1:D:1094:THR:HG22	1.58	0.84
1:B:837:HIS:O	1:B:940:LYS:NZ	2.09	0.84
1:C:1720:TYR:HA	1:C:1723:LEU:HB2	1.60	0.83
1:C:1874:THR:HG23	1:C:1896:GLU:HG2	1.60	0.83
1:B:1787:GLU:HB2	1:B:1801:ILE:HD11	1.58	0.83
1:A:1720:TYR:HA	1:A:1723:LEU:HB2	1.60	0.83
1:C:1026:THR:OG1	1:B:755:GLN:OE1	1.97	0.83
1:C:1604:ALA:HB2	1:C:1620:MET:HE3	1.61	0.83
1:B:539:GLU:HB2	1:B:770:GLU:HG2	1.60	0.83
1:D:539:GLU:HB2	1:D:770:GLU:HG2	1.60	0.83
1:D:742:ARG:NH1	1:D:743:LEU:O	2.12	0.83
1:D:1436:GLY:O	1:D:1440:GLN:NE2	2.12	0.83
1:D:1875:LEU:HB3	1:D:1895:GLU:HB3	1.59	0.83
1:B:1604:ALA:HB2	1:B:1620:MET:HE3	1.61	0.83
1:D:1874:THR:HG23	1:D:1896:GLU:HG2	1.60	0.82
1:B:742:ARG:NH1	1:B:743:LEU:O	2.12	0.82
1:B:951:ARG:NH1	1:B:959:ARG:O	2.12	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1604:ALA:HB2	1:A:1620:MET:HE3	1.61	0.82
1:C:1436:GLY:O	1:C:1440:GLN:NE2	2.12	0.82
1:B:1436:GLY:O	1:B:1440:GLN:NE2	2.12	0.82
1:A:539:GLU:HB2	1:A:770:GLU:HG2	1.60	0.82
1:A:1436:GLY:O	1:A:1440:GLN:NE2	2.12	0.82
1:C:951:ARG:NH1	1:C:959:ARG:O	2.12	0.82
1:A:951:ARG:NH1	1:A:959:ARG:O	2.12	0.82
1:D:1604:ALA:HB2	1:D:1620:MET:HE3	1.61	0.82
1:D:1879:ASP:HB2	1:D:1889:ILE:HD11	1.60	0.82
1:C:742:ARG:NH1	1:C:743:LEU:O	2.12	0.82
1:B:1874:THR:HG23	1:B:1896:GLU:HG2	1.60	0.82
1:A:742:ARG:NH1	1:A:743:LEU:O	2.12	0.82
1:A:1874:THR:HG23	1:A:1896:GLU:HG2	1.60	0.82
1:D:1720:TYR:HA	1:D:1723:LEU:HB2	1.60	0.82
1:A:1875:LEU:HB3	1:A:1895:GLU:HB3	1.59	0.81
1:A:1879:ASP:HB2	1:A:1889:ILE:HD11	1.60	0.81
1:B:1720:TYR:HA	1:B:1723:LEU:HB2	1.60	0.81
1:D:951:ARG:NH1	1:D:959:ARG:O	2.12	0.81
1:C:1426:SER:OG	1:C:1428:GLN:NE2	2.14	0.81
1:D:1426:SER:OG	1:D:1428:GLN:NE2	2.14	0.81
1:B:1426:SER:OG	1:B:1428:GLN:NE2	2.14	0.81
1:C:539:GLU:HB2	1:C:770:GLU:HG2	1.60	0.81
1:D:1476:THR:O	1:D:1480:HIS:ND1	2.14	0.81
1:B:1476:THR:O	1:B:1480:HIS:ND1	2.14	0.80
1:A:1426:SER:OG	1:A:1428:GLN:NE2	2.14	0.80
1:C:1879:ASP:HB2	1:C:1889:ILE:HD11	1.60	0.80
1:B:1879:ASP:HB2	1:B:1889:ILE:HD11	1.60	0.80
1:D:1808:VAL:HG13	1:D:1812:LYS:HE2	1.64	0.80
1:B:1808:VAL:HG13	1:B:1812:LYS:HE2	1.64	0.79
1:A:1476:THR:O	1:A:1480:HIS:ND1	2.14	0.79
1:C:1808:VAL:HG13	1:C:1812:LYS:HE2	1.64	0.79
1:A:1808:VAL:HG13	1:A:1812:LYS:HE2	1.64	0.79
1:C:1476:THR:O	1:C:1480:HIS:ND1	2.14	0.79
1:D:569:ASN:OD1	1:D:609:HIS:N	2.16	0.78
1:A:223:ARG:NE	1:A:1394:ASP:OD1	2.17	0.78
1:B:569:ASN:OD1	1:B:609:HIS:N	2.16	0.78
1:C:569:ASN:OD1	1:C:609:HIS:N	2.16	0.78
1:B:1021:TYR:HE2	1:B:1041:ARG:HG3	1.49	0.78
1:B:1111:GLY:O	1:B:1115:THR:OG1	2.01	0.78
1:B:266:LEU:HB2	1:B:497:LYS:HB2	1.66	0.77
1:C:1837:ARG:NH1	1:C:1845:TYR:O	2.18	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1021:TYR:HE2	1:D:1041:ARG:HG3	1.49	0.77
1:A:1837:ARG:NH1	1:A:1845:TYR:O	2.18	0.77
1:D:1265:GLU:OE2	1:D:1268:LEU:N	2.18	0.77
1:C:1021:TYR:HE2	1:C:1041:ARG:HG3	1.49	0.77
1:D:266:LEU:HB2	1:D:497:LYS:HB2	1.66	0.77
1:A:266:LEU:HB2	1:A:497:LYS:HB2	1.66	0.76
1:A:824:ASP:HB3	1:A:830:PRO:HG3	1.67	0.76
1:A:1265:GLU:OE2	1:A:1268:LEU:N	2.18	0.76
1:C:1265:GLU:OE2	1:C:1268:LEU:N	2.18	0.76
1:D:223:ARG:NE	1:D:1394:ASP:OD1	2.17	0.76
1:C:223:ARG:NE	1:C:1394:ASP:OD1	2.17	0.76
1:B:1521:SER:OG	1:B:1524:HIS:ND1	2.19	0.76
1:D:1111:GLY:O	1:D:1115:THR:OG1	2.01	0.76
1:B:1265:GLU:OE2	1:B:1268:LEU:N	2.18	0.76
1:D:678:VAL:HG22	1:D:700:VAL:HG23	1.68	0.76
1:A:1021:TYR:HE2	1:A:1041:ARG:HG3	1.49	0.76
1:D:1837:ARG:NH1	1:D:1845:TYR:O	2.18	0.76
1:C:824:ASP:HB3	1:C:830:PRO:HG3	1.67	0.76
1:D:1521:SER:OG	1:D:1524:HIS:ND1	2.19	0.76
1:D:824:ASP:HB3	1:D:830:PRO:HG3	1.67	0.75
1:B:678:VAL:HG22	1:B:700:VAL:HG23	1.68	0.75
1:A:1111:GLY:O	1:A:1115:THR:OG1	2.01	0.75
1:A:1423:SER:O	1:A:1428:GLN:NE2	2.19	0.75
1:D:1423:SER:O	1:D:1428:GLN:NE2	2.19	0.75
1:A:1109:LEU:HA	1:A:1112:LEU:HD12	1.69	0.75
1:C:266:LEU:HB2	1:C:497:LYS:HB2	1.66	0.75
1:C:1423:SER:O	1:C:1428:GLN:NE2	2.19	0.75
1:B:223:ARG:NE	1:B:1394:ASP:OD1	2.17	0.75
1:C:1521:SER:OG	1:C:1524:HIS:ND1	2.19	0.75
1:A:1684:VAL:HA	1:A:1687:LEU:HD12	1.68	0.75
1:C:1684:VAL:HA	1:C:1687:LEU:HD12	1.67	0.75
1:D:1109:LEU:HA	1:D:1112:LEU:HD12	1.69	0.75
1:B:909:HIS:ND1	1:B:941:SER:OG	2.19	0.75
1:B:1837:ARG:NH1	1:B:1842:ASP:O	2.20	0.75
1:D:1837:ARG:NH1	1:D:1842:ASP:O	2.20	0.75
1:A:569:ASN:OD1	1:A:609:HIS:N	2.16	0.75
1:C:1109:LEU:HA	1:C:1112:LEU:HD12	1.69	0.75
1:D:1856:PHE:HZ	1:D:1898:VAL:HG13	1.52	0.75
1:B:576:TYR:HB2	1:B:633:LEU:HD23	1.69	0.75
1:D:576:TYR:HB2	1:D:633:LEU:HD23	1.69	0.74
1:B:1837:ARG:NH1	1:B:1845:TYR:O	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:GLU:O	1:B:147:LYS:NZ	2.21	0.74
1:B:1109:LEU:HA	1:B:1112:LEU:HD12	1.69	0.74
1:B:1856:PHE:HZ	1:B:1898:VAL:HG13	1.52	0.74
1:C:144:GLU:O	1:C:147:LYS:NZ	2.21	0.74
1:B:1298:LYS:HB3	1:B:1302:ALA:HB2	1.70	0.74
1:C:1837:ARG:NH1	1:C:1842:ASP:O	2.20	0.74
1:B:824:ASP:HB3	1:B:830:PRO:HG3	1.67	0.74
1:B:1684:VAL:HA	1:B:1687:LEU:HD12	1.68	0.74
1:A:1521:SER:OG	1:A:1524:HIS:ND1	2.19	0.74
1:C:701:ASP:HB3	1:C:704:LYS:HE2	1.70	0.74
1:D:1298:LYS:HB3	1:D:1302:ALA:HB2	1.70	0.74
1:D:1684:VAL:HA	1:D:1687:LEU:HD12	1.68	0.74
1:B:1423:SER:O	1:B:1428:GLN:NE2	2.19	0.74
1:C:576:TYR:HB2	1:C:633:LEU:HD23	1.69	0.74
1:C:1583:TYR:HB2	1:C:1603:MET:HE1	1.70	0.74
1:A:1856:PHE:HZ	1:A:1898:VAL:HG13	1.52	0.73
1:C:1856:PHE:HZ	1:C:1898:VAL:HG13	1.52	0.73
1:D:701:ASP:HB3	1:D:704:LYS:HE2	1.70	0.73
1:A:144:GLU:O	1:A:147:LYS:NZ	2.21	0.73
1:C:1553:ASP:OD1	1:C:1554:LEU:N	2.21	0.73
1:D:1553:ASP:OD1	1:D:1554:LEU:N	2.21	0.73
1:B:701:ASP:HB3	1:B:704:LYS:HE2	1.70	0.73
1:A:230:ALA:O	1:A:233:THR:OG1	2.06	0.73
1:A:1521:SER:HG	1:A:1524:HIS:HD1	1.35	0.73
1:C:678:VAL:HG22	1:C:700:VAL:HG23	1.68	0.73
1:A:678:VAL:HG22	1:A:700:VAL:HG23	1.68	0.73
1:A:1298:LYS:HB3	1:A:1302:ALA:HB2	1.70	0.73
1:D:1012:PHE:O	1:D:1015:SER:OG	2.07	0.73
1:A:1553:ASP:OD1	1:A:1554:LEU:N	2.21	0.73
1:C:230:ALA:O	1:C:233:THR:OG1	2.06	0.73
1:A:701:ASP:HB3	1:A:704:LYS:HE2	1.70	0.73
1:A:1837:ARG:NH1	1:A:1842:ASP:O	2.20	0.73
1:C:1856:PHE:HE1	1:C:1872:ARG:HB2	1.53	0.73
1:D:144:GLU:O	1:D:147:LYS:NZ	2.20	0.73
1:D:230:ALA:O	1:D:233:THR:OG1	2.06	0.73
1:D:1521:SER:HG	1:D:1524:HIS:HD1	1.36	0.73
1:B:230:ALA:O	1:B:233:THR:OG1	2.06	0.73
1:A:1583:TYR:HB2	1:A:1603:MET:HE1	1.70	0.73
1:B:214:ASP:O	1:B:217:ARG:NH2	2.22	0.73
1:C:214:ASP:O	1:C:217:ARG:NH2	2.22	0.73
1:B:1553:ASP:OD1	1:B:1554:LEU:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1856:PHE:HE1	1:B:1872:ARG:HB2	1.53	0.73
1:A:1856:PHE:HE1	1:A:1872:ARG:HB2	1.53	0.73
1:D:1152:TYR:HA	1:D:1157:VAL:HG11	1.71	0.73
1:C:1111:GLY:O	1:C:1115:THR:OG1	2.01	0.72
1:A:576:TYR:HB2	1:A:633:LEU:HD23	1.69	0.72
1:D:90:ARG:NH1	1:D:118:GLU:O	2.23	0.72
1:D:214:ASP:O	1:D:217:ARG:NH2	2.22	0.72
1:B:1583:TYR:HB2	1:B:1603:MET:HE1	1.70	0.72
1:C:1298:LYS:HB3	1:C:1302:ALA:HB2	1.70	0.72
1:C:1521:SER:HG	1:C:1524:HIS:HD1	1.36	0.72
1:C:1720:TYR:CG	1:D:1738:MET:HE2	2.23	0.72
1:B:638:TYR:HB3	1:B:651:GLU:HB2	1.71	0.72
1:B:824:ASP:OD1	1:B:828:HIS:N	2.22	0.72
1:B:954:THR:HB	1:B:959:ARG:HG3	1.72	0.72
1:D:1785:ARG:NH1	1:D:1785:ARG:O	2.23	0.72
1:B:1012:PHE:O	1:B:1015:SER:OG	2.07	0.72
1:B:1785:ARG:NH1	1:B:1785:ARG:O	2.23	0.72
1:A:814:LEU:HD12	1:A:817:ARG:HH21	1.54	0.72
1:A:1785:ARG:NH1	1:A:1785:ARG:O	2.23	0.72
1:A:220:GLU:OE1	1:A:223:ARG:NH2	2.22	0.72
1:A:1152:TYR:HA	1:A:1157:VAL:HG11	1.71	0.72
1:D:954:THR:HB	1:D:959:ARG:HG3	1.72	0.72
1:B:109:VAL:HG22	1:B:717:VAL:HG11	1.71	0.72
1:B:1152:TYR:HA	1:B:1157:VAL:HG11	1.71	0.72
1:A:638:TYR:HB3	1:A:651:GLU:HB2	1.71	0.72
1:A:909:HIS:ND1	1:A:941:SER:OG	2.19	0.72
1:C:814:LEU:HD12	1:C:817:ARG:HH21	1.54	0.72
1:D:1856:PHE:HE1	1:D:1872:ARG:HB2	1.53	0.72
1:B:1521:SER:HG	1:B:1524:HIS:HD1	1.36	0.72
1:A:1012:PHE:O	1:A:1015:SER:OG	2.07	0.72
1:C:90:ARG:NH1	1:C:118:GLU:O	2.23	0.72
1:C:824:ASP:OD1	1:C:828:HIS:N	2.22	0.72
1:C:1785:ARG:NH1	1:C:1785:ARG:O	2.23	0.72
1:D:220:GLU:OE1	1:D:223:ARG:NH2	2.22	0.72
1:B:220:GLU:OE1	1:B:223:ARG:NH2	2.22	0.72
1:D:1583:TYR:HB2	1:D:1603:MET:HE1	1.70	0.71
1:A:109:VAL:HG22	1:A:717:VAL:HG11	1.71	0.71
1:C:954:THR:HB	1:C:959:ARG:HG3	1.72	0.71
1:C:1152:TYR:HA	1:C:1157:VAL:HG11	1.71	0.71
1:D:109:VAL:HG22	1:D:717:VAL:HG11	1.71	0.71
1:A:214:ASP:O	1:A:217:ARG:NH2	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:220:GLU:OE1	1:C:223:ARG:NH2	2.22	0.71
1:C:1872:ARG:NH1	1:C:1896:GLU:OE2	2.23	0.71
1:B:90:ARG:NH1	1:B:118:GLU:O	2.23	0.71
1:A:81:ASP:O	1:A:126:ARG:NE	2.24	0.71
1:A:90:ARG:NH1	1:A:118:GLU:O	2.23	0.71
1:A:954:THR:HB	1:A:959:ARG:HG3	1.72	0.71
1:C:909:HIS:ND1	1:C:941:SER:OG	2.18	0.71
1:C:81:ASP:O	1:C:126:ARG:NE	2.24	0.71
1:A:1396:LEU:HA	1:A:1399:ILE:HD12	1.73	0.71
1:C:288:GLU:O	1:C:290:LYS:NZ	2.22	0.71
1:B:86:LEU:HB2	1:B:122:ILE:HB	1.72	0.71
1:B:814:LEU:HD12	1:B:817:ARG:HH21	1.54	0.71
1:B:1019:ALA:O	1:B:1023:GLN:NE2	2.24	0.71
1:C:638:TYR:HB3	1:C:651:GLU:HB2	1.71	0.71
1:D:814:LEU:HD12	1:D:817:ARG:HH21	1.54	0.71
1:D:1396:LEU:HA	1:D:1399:ILE:HD12	1.73	0.71
1:A:206:LEU:HD13	1:A:1487:LEU:HD21	1.73	0.70
1:A:288:GLU:O	1:A:290:LYS:NZ	2.22	0.70
1:C:1012:PHE:O	1:C:1015:SER:OG	2.07	0.70
1:D:638:TYR:HB3	1:D:651:GLU:HB2	1.70	0.70
1:A:1872:ARG:NH1	1:A:1896:GLU:OE2	2.23	0.70
1:C:109:VAL:HG22	1:C:717:VAL:HG11	1.71	0.70
1:C:1548:ALA:O	1:C:1552:GLN:NE2	2.20	0.70
1:D:86:LEU:HB2	1:D:122:ILE:HB	1.72	0.70
1:B:141:THR:HB	1:B:145:ARG:HH22	1.57	0.70
1:B:1872:ARG:NH1	1:B:1896:GLU:OE2	2.23	0.70
1:C:1019:ALA:O	1:C:1023:GLN:NE2	2.24	0.70
1:D:480:ARG:HG3	1:D:481:ARG:HG3	1.74	0.70
1:A:86:LEU:HB2	1:A:122:ILE:HB	1.72	0.70
1:C:206:LEU:HD13	1:C:1487:LEU:HD21	1.73	0.70
1:D:1019:ALA:O	1:D:1023:GLN:NE2	2.24	0.70
1:B:1396:LEU:HA	1:B:1399:ILE:HD12	1.73	0.70
1:A:1548:ALA:O	1:A:1552:GLN:NE2	2.20	0.70
1:C:141:THR:HB	1:C:145:ARG:HH22	1.57	0.70
1:B:480:ARG:HG3	1:B:481:ARG:HG3	1.74	0.70
1:B:1179:LEU:HD21	1:B:1254:LEU:HD21	1.74	0.70
1:B:1248:GLU:OE1	1:B:1248:GLU:N	2.21	0.70
1:A:1019:ALA:O	1:A:1023:GLN:NE2	2.24	0.70
1:C:1779:LEU:HD22	1:C:1824:TYR:H	1.57	0.70
1:D:1872:ARG:NH1	1:D:1896:GLU:OE2	2.23	0.70
1:B:1431:LEU:O	1:B:1435:HIS:ND1	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1431:LEU:O	1:C:1435:HIS:ND1	2.24	0.70
1:C:1738:MET:HE2	1:D:1720:TYR:CG	2.26	0.70
1:A:1179:LEU:HD21	1:A:1254:LEU:HD21	1.74	0.70
1:D:1179:LEU:HD21	1:D:1254:LEU:HD21	1.74	0.70
1:C:1383:ASN:O	1:C:1386:THR:OG1	2.09	0.69
1:A:480:ARG:HG3	1:A:481:ARG:HG3	1.74	0.69
1:A:1779:LEU:HD22	1:A:1824:TYR:H	1.57	0.69
1:C:86:LEU:HB2	1:C:122:ILE:HB	1.72	0.69
1:C:480:ARG:HG3	1:C:481:ARG:HG3	1.74	0.69
1:C:1179:LEU:HD21	1:C:1254:LEU:HD21	1.74	0.69
1:D:141:THR:HB	1:D:145:ARG:HH22	1.57	0.69
1:D:1431:LEU:O	1:D:1435:HIS:ND1	2.24	0.69
1:D:81:ASP:O	1:D:126:ARG:NE	2.24	0.69
1:A:141:THR:HB	1:A:145:ARG:HH22	1.56	0.69
1:A:1431:LEU:O	1:A:1435:HIS:ND1	2.24	0.69
1:C:1738:MET:HE2	1:D:1720:TYR:CD2	2.27	0.69
1:D:909:HIS:ND1	1:D:941:SER:OG	2.18	0.69
1:C:1396:LEU:HA	1:C:1399:ILE:HD12	1.73	0.69
1:D:288:GLU:O	1:D:290:LYS:NZ	2.22	0.69
1:B:1529:LEU:HA	1:B:1532:ILE:HD12	1.74	0.69
1:C:250:PRO:O	1:C:838:TYR:OH	2.10	0.69
1:C:1248:GLU:OE1	1:C:1248:GLU:N	2.21	0.69
1:C:1529:LEU:HA	1:C:1532:ILE:HD12	1.74	0.69
1:D:344:LYS:O	1:D:392:MET:N	2.23	0.69
1:A:515:LEU:HD13	1:A:597:GLU:HG3	1.75	0.69
1:A:1582:MET:HA	1:A:1585:ILE:HD12	1.75	0.69
1:C:127:TYR:HB3	1:C:130:LEU:HD12	1.75	0.69
1:C:456:VAL:N	1:C:496:LEU:O	2.25	0.69
1:C:1756:PHE:O	1:C:1766:GLU:N	2.26	0.69
1:B:54:LEU:HB3	1:B:59:VAL:HG21	1.75	0.69
1:A:127:TYR:HB3	1:A:130:LEU:HD12	1.75	0.69
1:A:250:PRO:O	1:A:838:TYR:OH	2.10	0.69
1:A:824:ASP:OD1	1:A:828:HIS:N	2.21	0.69
1:C:515:LEU:HD13	1:C:597:GLU:HG3	1.75	0.69
1:D:250:PRO:O	1:D:838:TYR:OH	2.10	0.69
1:A:344:LYS:O	1:A:392:MET:N	2.23	0.69
1:A:1529:LEU:HA	1:A:1532:ILE:HD12	1.74	0.69
1:D:54:LEU:HB3	1:D:59:VAL:HG21	1.75	0.69
1:B:288:GLU:O	1:B:290:LYS:NZ	2.22	0.69
1:A:1848:ARG:HE	1:A:1881:ALA:HB2	1.58	0.68
1:B:1383:ASN:O	1:B:1386:THR:OG1	2.10	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:54:LEU:HB3	1:C:59:VAL:HG21	1.75	0.68
1:D:1529:LEU:HA	1:D:1532:ILE:HD12	1.74	0.68
1:B:81:ASP:O	1:B:126:ARG:NE	2.24	0.68
1:B:1756:PHE:O	1:B:1766:GLU:N	2.26	0.68
1:A:1421:LEU:O	1:A:1465:ARG:NH1	2.26	0.68
1:C:1421:LEU:O	1:C:1465:ARG:NH1	2.26	0.68
1:D:1756:PHE:O	1:D:1766:GLU:N	2.26	0.68
1:B:1848:ARG:HE	1:B:1881:ALA:HB2	1.58	0.68
1:A:54:LEU:HB3	1:A:59:VAL:HG21	1.75	0.68
1:D:515:LEU:HD13	1:D:597:GLU:HG3	1.75	0.68
1:D:1548:ALA:O	1:D:1552:GLN:NE2	2.20	0.68
1:B:206:LEU:HD13	1:B:1487:LEU:HD21	1.73	0.68
1:D:206:LEU:HD13	1:D:1487:LEU:HD21	1.73	0.68
1:B:1779:LEU:HD22	1:B:1824:TYR:H	1.57	0.68
1:C:1582:MET:HA	1:C:1585:ILE:HD12	1.75	0.68
1:D:1383:ASN:O	1:D:1386:THR:OG1	2.09	0.68
1:B:1421:LEU:O	1:B:1465:ARG:NH1	2.26	0.68
1:D:1421:LEU:O	1:D:1465:ARG:NH1	2.26	0.68
1:D:1582:MET:HA	1:D:1585:ILE:HD12	1.75	0.68
1:D:1880:HIS:H	1:D:1889:ILE:HG12	1.59	0.68
1:B:250:PRO:O	1:B:838:TYR:OH	2.10	0.68
1:C:212:PRO:HB3	1:C:1446:LYS:HE3	1.75	0.68
1:C:1989:LYS:HA	1:C:1992:ILE:HG12	1.75	0.68
1:D:212:PRO:HB3	1:D:1446:LYS:HE3	1.75	0.68
1:B:212:PRO:HB3	1:B:1446:LYS:HE3	1.75	0.68
1:B:971:LEU:O	1:B:974:SER:OG	2.12	0.68
1:B:1548:ALA:O	1:B:1552:GLN:NE2	2.20	0.68
1:A:212:PRO:HB3	1:A:1446:LYS:HE3	1.75	0.68
1:A:259:GLN:N	1:A:329:VAL:O	2.25	0.68
1:A:456:VAL:N	1:A:496:LEU:O	2.25	0.68
1:A:971:LEU:O	1:A:974:SER:OG	2.11	0.68
1:A:1248:GLU:OE1	1:A:1248:GLU:N	2.21	0.68
1:A:1383:ASN:O	1:A:1386:THR:OG1	2.09	0.68
1:C:317:ALA:HB2	1:C:596:SER:HA	1.76	0.68
1:D:1989:LYS:HA	1:D:1992:ILE:HG12	1.75	0.68
1:A:1865:GLU:O	1:A:1869:GLN:N	2.26	0.67
1:D:317:ALA:HB2	1:D:596:SER:HA	1.76	0.67
1:D:789:ARG:NH2	1:D:846:GLU:OE2	2.27	0.67
1:A:755:GLN:OE1	1:D:1026:THR:OG1	2.11	0.67
1:C:1848:ARG:HE	1:C:1881:ALA:HB2	1.58	0.67
1:D:127:TYR:HB3	1:D:130:LEU:HD12	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:956:ARG:NH1	1:D:1007:LEU:O	2.28	0.67
1:D:1551:VAL:HG12	1:D:1555:MET:HE3	1.77	0.67
1:D:1848:ARG:HE	1:D:1881:ALA:HB2	1.58	0.67
1:A:317:ALA:HB2	1:A:596:SER:HA	1.76	0.67
1:C:956:ARG:NH1	1:C:1007:LEU:O	2.28	0.67
1:B:317:ALA:HB2	1:B:596:SER:HA	1.76	0.67
1:B:1880:HIS:H	1:B:1889:ILE:HG12	1.59	0.67
1:D:229:PRO:O	1:D:1262:LYS:NZ	2.28	0.67
1:D:1631:LEU:O	1:D:1635:GLU:N	2.27	0.67
1:B:515:LEU:HD13	1:B:597:GLU:HG3	1.75	0.67
1:B:1582:MET:HA	1:B:1585:ILE:HD12	1.75	0.67
1:A:1551:VAL:HG12	1:A:1555:MET:HE3	1.77	0.67
1:D:1779:LEU:HD22	1:D:1824:TYR:H	1.57	0.67
1:B:1618:GLN:O	1:B:1622:HIS:ND1	2.28	0.67
1:A:347:GLN:NE2	1:A:350:ASP:O	2.27	0.67
1:A:1880:HIS:H	1:A:1889:ILE:HG12	1.59	0.67
1:A:1989:LYS:HA	1:A:1992:ILE:HG12	1.75	0.67
1:C:1865:GLU:O	1:C:1869:GLN:N	2.26	0.67
1:B:127:TYR:HB3	1:B:130:LEU:HD12	1.75	0.67
1:B:347:GLN:NE2	1:B:350:ASP:O	2.27	0.67
1:A:956:ARG:NH1	1:A:1007:LEU:O	2.28	0.67
1:B:789:ARG:NH2	1:B:846:GLU:OE2	2.27	0.67
1:C:347:GLN:NE2	1:C:350:ASP:O	2.27	0.67
1:C:1880:HIS:H	1:C:1889:ILE:HG12	1.59	0.67
1:B:956:ARG:NH1	1:B:1007:LEU:O	2.28	0.67
1:A:221:THR:O	1:A:225:GLN:NE2	2.28	0.66
1:C:1285:LEU:HA	1:C:1288:LEU:HD12	1.77	0.66
1:B:1285:LEU:HA	1:B:1288:LEU:HD12	1.77	0.66
1:A:1001:LEU:HD12	1:A:1044:PHE:HZ	1.61	0.66
1:D:550:LEU:HD11	1:D:620:LYS:HG3	1.77	0.66
1:D:1618:GLN:O	1:D:1622:HIS:ND1	2.28	0.66
1:B:1001:LEU:HD12	1:B:1044:PHE:HZ	1.61	0.66
1:B:1551:VAL:HG12	1:B:1555:MET:HE3	1.77	0.66
1:B:1865:GLU:O	1:B:1869:GLN:N	2.26	0.66
1:C:284:TYR:HD2	1:C:291:LYS:HA	1.61	0.66
1:C:789:ARG:NH2	1:C:846:GLU:OE2	2.27	0.66
1:C:2014:LEU:HD23	1:C:2017:LEU:HD12	1.77	0.66
1:D:259:GLN:N	1:D:329:VAL:O	2.25	0.66
1:D:971:LEU:O	1:D:974:SER:OG	2.12	0.66
1:D:1248:GLU:OE1	1:D:1248:GLU:N	2.21	0.66
1:B:1989:LYS:HA	1:B:1992:ILE:HG12	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:TYR:HD2	1:A:291:LYS:HA	1.61	0.66
1:C:1001:LEU:HD12	1:C:1044:PHE:HZ	1.61	0.66
1:D:1285:LEU:HA	1:D:1288:LEU:HD12	1.77	0.66
1:D:1877:SER:HB2	1:D:1893:HIS:HB3	1.77	0.66
1:C:755:GLN:OE1	1:B:1026:THR:OG1	2.13	0.66
1:A:1618:GLN:O	1:A:1622:HIS:ND1	2.28	0.66
1:C:1804:ASP:O	1:C:1821:GLN:NE2	2.25	0.66
1:D:1504:MET:HG2	1:D:1508:MET:HE2	1.77	0.66
1:A:789:ARG:NH2	1:A:846:GLU:OE2	2.27	0.66
1:A:1530:LYS:HA	1:A:1533:LEU:HD12	1.77	0.66
1:A:2014:LEU:HD23	1:A:2017:LEU:HD12	1.77	0.66
1:C:1504:MET:HG2	1:C:1508:MET:HE2	1.77	0.66
1:C:1877:SER:HB2	1:C:1893:HIS:HB3	1.77	0.66
1:C:1919:ALA:HB1	1:C:1930:LEU:HA	1.78	0.66
1:D:347:GLN:NE2	1:D:350:ASP:O	2.27	0.66
1:A:1858:PRO:HG3	1:A:1870:HIS:HE1	1.60	0.66
1:A:1919:ALA:HB1	1:A:1930:LEU:HA	1.78	0.66
1:C:971:LEU:O	1:C:974:SER:OG	2.11	0.66
1:C:1551:VAL:HG12	1:C:1555:MET:HE3	1.77	0.66
1:C:1604:ALA:HB1	1:C:1693:TYR:HE2	1.61	0.66
1:C:1618:GLN:O	1:C:1622:HIS:ND1	2.28	0.66
1:D:824:ASP:OD1	1:D:828:HIS:N	2.22	0.66
1:C:1971:ARG:NE	1:C:2017:LEU:O	2.29	0.66
1:D:1001:LEU:HD12	1:D:1044:PHE:HZ	1.61	0.66
1:B:247:CYS:HA	1:B:826:ARG:HD2	1.78	0.66
1:B:284:TYR:HD2	1:B:291:LYS:HA	1.61	0.66
1:B:344:LYS:O	1:B:392:MET:N	2.23	0.66
1:A:550:LEU:HD11	1:A:620:LYS:HG3	1.77	0.65
1:A:798:VAL:HG12	1:A:800:LEU:HB2	1.79	0.65
1:A:1285:LEU:HA	1:A:1288:LEU:HD12	1.77	0.65
1:D:1858:PRO:HG3	1:D:1870:HIS:HE1	1.60	0.65
1:C:294:GLU:OE1	1:C:552:TYR:OH	2.14	0.65
1:C:1858:PRO:HG3	1:C:1870:HIS:HE1	1.60	0.65
1:D:247:CYS:HA	1:D:826:ARG:HD2	1.78	0.65
1:D:656:PHE:N	1:D:677:SER:O	2.28	0.65
1:D:1865:GLU:O	1:D:1869:GLN:N	2.26	0.65
1:B:550:LEU:HD11	1:B:620:LYS:HG3	1.77	0.65
1:B:1504:MET:HG2	1:B:1508:MET:HE2	1.77	0.65
1:A:1504:MET:HG2	1:A:1508:MET:HE2	1.77	0.65
1:D:2014:LEU:HD23	1:D:2017:LEU:HD12	1.77	0.65
1:B:1858:PRO:HG3	1:B:1870:HIS:HE1	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:259:GLN:N	1:C:329:VAL:O	2.25	0.65
1:D:294:GLU:OE1	1:D:552:TYR:OH	2.14	0.65
1:B:1604:ALA:HB1	1:B:1693:TYR:HE2	1.61	0.65
1:B:1877:SER:N	1:B:1893:HIS:O	2.29	0.65
1:A:294:GLU:OE1	1:A:552:TYR:OH	2.14	0.65
1:D:456:VAL:N	1:D:496:LEU:O	2.25	0.65
1:A:1756:PHE:O	1:A:1766:GLU:N	2.25	0.65
1:A:1877:SER:HB2	1:A:1893:HIS:HB3	1.77	0.65
1:A:1877:SER:N	1:A:1893:HIS:O	2.29	0.65
1:C:798:VAL:HG12	1:C:800:LEU:HB2	1.79	0.65
1:C:1450:LEU:HD12	1:C:1454:GLU:HB2	1.79	0.65
1:C:1530:LYS:HA	1:C:1533:LEU:HD12	1.77	0.65
1:C:1738:MET:HG3	1:D:1721:LYS:HA	1.78	0.65
1:B:1631:LEU:O	1:B:1635:GLU:N	2.27	0.65
1:B:2014:LEU:HD23	1:B:2017:LEU:HD12	1.77	0.65
1:A:466:ARG:HD3	1:A:616:TYR:CD2	2.32	0.65
1:C:466:ARG:HD3	1:C:616:TYR:CD2	2.32	0.65
1:B:221:THR:O	1:B:225:GLN:NE2	2.28	0.65
1:B:1450:LEU:HD12	1:B:1454:GLU:HB2	1.79	0.65
1:C:247:CYS:HA	1:C:826:ARG:HD2	1.79	0.65
1:C:229:PRO:O	1:C:1262:LYS:NZ	2.28	0.65
1:B:259:GLN:N	1:B:329:VAL:O	2.25	0.65
1:B:1399:ILE:O	1:B:1403:VAL:HG23	1.97	0.65
1:B:1420:VAL:O	1:B:1423:SER:OG	2.10	0.65
1:C:1392:VAL:O	1:C:1395:THR:OG1	2.15	0.65
1:D:284:TYR:HD2	1:D:291:LYS:HA	1.61	0.65
1:D:1604:ALA:HB1	1:D:1693:TYR:HE2	1.61	0.65
1:A:229:PRO:O	1:A:1262:LYS:NZ	2.28	0.64
1:A:1399:ILE:O	1:A:1403:VAL:HG23	1.97	0.64
1:A:1428:GLN:HB3	1:A:1432:PHE:HD2	1.62	0.64
1:A:1604:ALA:HB1	1:A:1693:TYR:HE2	1.61	0.64
1:C:344:LYS:O	1:C:392:MET:N	2.23	0.64
1:D:466:ARG:HD3	1:D:616:TYR:CD2	2.32	0.64
1:D:1428:GLN:HB3	1:D:1432:PHE:HD2	1.62	0.64
1:D:1530:LYS:HA	1:D:1533:LEU:HD12	1.77	0.64
1:B:1877:SER:HB2	1:B:1893:HIS:HB3	1.77	0.64
1:B:1919:ALA:HB1	1:B:1930:LEU:HA	1.78	0.64
1:B:1971:ARG:NE	1:B:2017:LEU:O	2.29	0.64
1:A:1590:GLN:OE1	1:A:1596:ARG:NH1	2.30	0.64
1:D:221:THR:O	1:D:225:GLN:NE2	2.28	0.64
1:B:229:PRO:O	1:B:1262:LYS:NZ	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1392:VAL:O	1:B:1395:THR:OG1	2.15	0.64
1:B:1428:GLN:HB3	1:B:1432:PHE:HD2	1.62	0.64
1:A:247:CYS:HA	1:A:826:ARG:HD2	1.79	0.64
1:A:1420:VAL:O	1:A:1423:SER:OG	2.10	0.64
1:D:1590:GLN:OE1	1:D:1596:ARG:NH1	2.30	0.64
1:D:1877:SER:N	1:D:1893:HIS:O	2.29	0.64
1:C:1603:MET:O	1:C:1607:HIS:ND1	2.21	0.64
1:D:1919:ALA:HB1	1:D:1930:LEU:HA	1.78	0.64
1:A:1971:ARG:NE	1:A:2017:LEU:O	2.29	0.64
1:C:221:THR:O	1:C:225:GLN:NE2	2.28	0.64
1:B:1486:TYR:HA	1:B:1489:MET:HE2	1.80	0.64
1:B:1590:GLN:OE1	1:B:1596:ARG:NH1	2.30	0.64
1:A:1450:LEU:HD12	1:A:1454:GLU:HB2	1.79	0.64
1:C:1399:ILE:O	1:C:1403:VAL:HG23	1.97	0.64
1:B:798:VAL:HG12	1:B:800:LEU:HB2	1.79	0.64
1:A:1870:HIS:HA	1:A:1904:VAL:HG21	1.80	0.64
1:D:798:VAL:HG12	1:D:800:LEU:HB2	1.79	0.64
1:D:1392:VAL:O	1:D:1395:THR:OG1	2.15	0.64
1:D:1450:LEU:HD12	1:D:1454:GLU:HB2	1.79	0.64
1:D:1508:MET:O	1:D:1511:SER:OG	2.15	0.64
1:D:1971:ARG:NE	1:D:2017:LEU:O	2.29	0.64
1:B:456:VAL:N	1:B:496:LEU:O	2.25	0.64
1:B:466:ARG:HD3	1:B:616:TYR:CD2	2.32	0.64
1:B:1508:MET:O	1:B:1511:SER:OG	2.15	0.64
1:B:1870:HIS:HA	1:B:1904:VAL:HG21	1.80	0.64
1:C:550:LEU:HD11	1:C:620:LYS:HG3	1.77	0.64
1:C:1870:HIS:HA	1:C:1904:VAL:HG21	1.80	0.64
1:D:1399:ILE:O	1:D:1403:VAL:HG23	1.97	0.64
1:D:1486:TYR:HA	1:D:1489:MET:HE2	1.80	0.64
1:B:286:VAL:N	1:B:335:ASP:O	2.29	0.64
1:C:544:HIS:CE1	1:C:774:ALA:HB1	2.33	0.64
1:C:1160:ARG:HA	1:C:1163:GLU:CD	2.22	0.64
1:C:1428:GLN:HB3	1:C:1432:PHE:HD2	1.62	0.64
1:D:1870:HIS:HA	1:D:1904:VAL:HG21	1.80	0.64
1:D:1900:THR:O	1:D:1904:VAL:N	2.30	0.64
1:C:1590:GLN:OE1	1:C:1596:ARG:NH1	2.30	0.64
1:D:1495:ILE:HG13	1:D:1496:GLY:N	2.14	0.63
1:A:1603:MET:O	1:A:1607:HIS:ND1	2.21	0.63
1:C:1486:TYR:HA	1:C:1489:MET:HE2	1.80	0.63
1:D:1160:ARG:HA	1:D:1163:GLU:CD	2.22	0.63
1:B:544:HIS:CE1	1:B:774:ALA:HB1	2.33	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1530:LYS:HA	1:B:1533:LEU:HD12	1.78	0.63
1:A:509:PHE:HA	1:A:521:TYR:HD1	1.64	0.63
1:A:544:HIS:CE1	1:A:774:ALA:HB1	2.33	0.63
1:B:1160:ARG:HA	1:B:1163:GLU:CD	2.22	0.63
1:D:581:ASP:OD2	1:D:583:SER:OG	2.13	0.63
1:B:1495:ILE:HG13	1:B:1496:GLY:N	2.14	0.63
1:C:1864:GLY:N	1:C:1869:GLN:OE1	2.30	0.63
1:C:1875:LEU:N	1:C:1895:GLU:O	2.28	0.63
1:D:1954:LEU:HD21	1:D:1970:LEU:HB3	1.81	0.63
1:A:283:LEU:N	1:A:293:SER:OG	2.28	0.63
1:A:581:ASP:OD2	1:A:583:SER:OG	2.13	0.63
1:A:1160:ARG:HA	1:A:1163:GLU:CD	2.22	0.63
1:C:509:PHE:HA	1:C:521:TYR:HD1	1.64	0.63
1:C:1954:LEU:HD21	1:C:1970:LEU:HB3	1.81	0.63
1:D:544:HIS:CE1	1:D:774:ALA:HB1	2.33	0.63
1:D:559:ASN:OD1	1:D:561:SER:OG	2.12	0.63
1:B:1900:THR:O	1:B:1904:VAL:N	2.30	0.63
1:A:1727:HIS:HE1	1:B:1730:LEU:HD13	1.63	0.63
1:C:286:VAL:N	1:C:335:ASP:O	2.29	0.63
1:B:1804:ASP:O	1:B:1821:GLN:NE2	2.25	0.63
1:A:1485:LEU:HG	1:A:1489:MET:HE1	1.81	0.62
1:A:1631:LEU:O	1:A:1635:GLU:N	2.27	0.62
1:B:1954:LEU:HD21	1:B:1970:LEU:HB3	1.81	0.62
1:A:1495:ILE:HG13	1:A:1496:GLY:N	2.14	0.62
1:A:1590:GLN:HA	1:A:1596:ARG:HH11	1.65	0.62
1:C:283:LEU:N	1:C:293:SER:OG	2.28	0.62
1:C:1761:PHE:CZ	1:C:1818:ALA:HB1	2.34	0.62
1:D:312:HIS:HB3	1:D:389:ARG:HB2	1.82	0.62
1:D:1761:PHE:CZ	1:D:1818:ALA:HB1	2.34	0.62
1:C:1631:LEU:O	1:C:1635:GLU:N	2.27	0.62
1:D:1485:LEU:HG	1:D:1489:MET:HE1	1.81	0.62
1:B:1590:GLN:HA	1:B:1596:ARG:HH11	1.65	0.62
1:A:1954:LEU:HD21	1:A:1970:LEU:HB3	1.81	0.62
1:C:1590:GLN:HA	1:C:1596:ARG:HH11	1.64	0.62
1:B:303:ASP:HA	1:B:306:LYS:HD2	1.82	0.62
1:C:1485:LEU:HG	1:C:1489:MET:HE1	1.82	0.62
1:C:1731:GLN:OE1	1:D:1728:GLY:N	2.33	0.62
1:C:1877:SER:N	1:C:1893:HIS:O	2.29	0.62
1:D:1495:ILE:HG13	1:D:1496:GLY:H	1.65	0.62
1:B:312:HIS:HB3	1:B:389:ARG:HB2	1.82	0.62
1:B:1400:VAL:O	1:B:1403:VAL:N	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:206:LEU:O	1:A:208:GLU:N	2.33	0.62
1:A:730:LEU:HD23	1:A:757:LEU:HA	1.82	0.62
1:A:1486:TYR:HA	1:A:1489:MET:HE2	1.80	0.62
1:A:1801:ILE:HG23	1:A:1822:ILE:HD12	1.82	0.62
1:C:301:ASN:HB3	1:C:305:MET:HB2	1.81	0.62
1:C:482:PRO:HA	1:C:486:LEU:HD12	1.82	0.62
1:C:1400:VAL:O	1:C:1403:VAL:N	2.33	0.62
1:D:1590:GLN:HA	1:D:1596:ARG:HH11	1.65	0.62
1:B:1386:THR:O	1:B:1389:SER:OG	2.16	0.62
1:B:1801:ILE:HG23	1:B:1822:ILE:HD12	1.82	0.62
1:A:312:HIS:HB3	1:A:389:ARG:HB2	1.82	0.62
1:A:1711:ILE:HG23	1:A:1723:LEU:HD22	1.81	0.62
1:C:312:HIS:HB3	1:C:389:ARG:HB2	1.82	0.62
1:D:934:PHE:O	1:D:938:MET:HG3	2.00	0.62
1:B:482:PRO:HA	1:B:486:LEU:HD12	1.82	0.62
1:A:482:PRO:HA	1:A:486:LEU:HD12	1.82	0.62
1:A:1400:VAL:O	1:A:1403:VAL:N	2.33	0.62
1:C:1386:THR:O	1:C:1390:LEU:HG	1.99	0.62
1:D:509:PHE:HA	1:D:521:TYR:HD1	1.64	0.62
1:D:730:LEU:HD23	1:D:757:LEU:HA	1.82	0.62
1:C:303:ASP:HA	1:C:306:LYS:HD2	1.82	0.62
1:C:1801:ILE:HG23	1:C:1822:ILE:HD12	1.82	0.62
1:C:1900:THR:O	1:C:1904:VAL:N	2.30	0.62
1:D:283:LEU:N	1:D:293:SER:OG	2.28	0.62
1:D:1386:THR:O	1:D:1390:LEU:HG	1.99	0.62
1:D:1400:VAL:O	1:D:1403:VAL:N	2.33	0.62
1:B:301:ASN:HB3	1:B:305:MET:HB2	1.81	0.62
1:B:1386:THR:O	1:B:1390:LEU:HG	1.99	0.62
1:A:303:ASP:HA	1:A:306:LYS:HD2	1.82	0.62
1:A:1495:ILE:HG13	1:A:1496:GLY:H	1.65	0.62
1:A:1875:LEU:N	1:A:1895:GLU:O	2.28	0.62
1:D:482:PRO:HA	1:D:486:LEU:HD12	1.82	0.62
1:D:1409:ARG:NH2	1:D:1447:PHE:HB2	2.15	0.62
1:B:509:PHE:HA	1:B:521:TYR:HD1	1.64	0.62
1:B:1485:LEU:HG	1:B:1489:MET:HE1	1.81	0.62
1:A:1900:THR:O	1:A:1904:VAL:N	2.30	0.61
1:C:1508:MET:O	1:C:1511:SER:OG	2.15	0.61
1:D:1765:ASP:O	1:D:1767:GLN:NE2	2.31	0.61
1:D:1804:ASP:O	1:D:1821:GLN:NE2	2.25	0.61
1:A:1386:THR:O	1:A:1390:LEU:HG	1.99	0.61
1:A:1412:VAL:O	1:A:1416:VAL:HG23	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1409:ARG:NH2	1:C:1447:PHE:HB2	2.15	0.61
1:B:1761:PHE:CZ	1:B:1818:ALA:HB1	2.34	0.61
1:B:1765:ASP:O	1:B:1767:GLN:NE2	2.31	0.61
1:A:1761:PHE:CZ	1:A:1818:ALA:HB1	2.34	0.61
1:C:1270:GLN:O	1:C:1274:THR:OG1	2.15	0.61
1:C:1495:ILE:HG13	1:C:1496:GLY:H	1.65	0.61
1:C:1495:ILE:HG13	1:C:1496:GLY:N	2.14	0.61
1:D:303:ASP:HA	1:D:306:LYS:HD2	1.82	0.61
1:B:934:PHE:O	1:B:938:MET:HG3	2.00	0.61
1:B:1700:TYR:HB2	1:B:1737:ILE:HD11	1.82	0.61
1:A:1409:ARG:NH2	1:A:1447:PHE:HB2	2.15	0.61
1:C:206:LEU:O	1:C:208:GLU:N	2.33	0.61
1:C:730:LEU:HD23	1:C:757:LEU:HA	1.82	0.61
1:D:1523:GLU:OE2	1:D:1527:ARG:NH2	2.33	0.61
1:B:559:ASN:OD1	1:B:561:SER:OG	2.12	0.61
1:B:656:PHE:N	1:B:677:SER:O	2.28	0.61
1:B:1270:GLN:O	1:B:1274:THR:OG1	2.15	0.61
1:B:1412:VAL:O	1:B:1416:VAL:HG23	2.00	0.61
1:B:1523:GLU:OE2	1:B:1527:ARG:NH2	2.33	0.61
1:A:484:SER:HB2	1:C:1370:THR:N	2.16	0.61
1:C:1711:ILE:HG23	1:C:1723:LEU:HD22	1.81	0.61
1:D:1412:VAL:O	1:D:1416:VAL:HG23	2.00	0.61
1:C:1700:TYR:HB2	1:C:1737:ILE:HD11	1.82	0.61
1:C:1765:ASP:O	1:C:1767:GLN:NE2	2.31	0.61
1:D:1711:ILE:HG23	1:D:1723:LEU:HD22	1.81	0.61
1:B:294:GLU:OE1	1:B:552:TYR:OH	2.14	0.61
1:B:1551:VAL:O	1:B:1555:MET:HG3	2.01	0.61
1:A:1864:GLY:N	1:A:1869:GLN:OE1	2.30	0.61
1:C:1449:GLU:CD	1:C:1449:GLU:H	2.09	0.61
1:D:301:ASN:HB3	1:D:305:MET:HB2	1.81	0.61
1:D:1700:TYR:HB2	1:D:1737:ILE:HD11	1.82	0.61
1:D:1801:ILE:HG23	1:D:1822:ILE:HD12	1.82	0.61
1:A:301:ASN:HB3	1:A:305:MET:HB2	1.81	0.61
1:C:1412:VAL:O	1:C:1416:VAL:HG23	2.00	0.61
1:D:333:SER:OG	1:D:335:ASP:OD2	2.19	0.61
1:D:583:SER:O	1:D:600:ARG:NH2	2.34	0.61
1:B:333:SER:OG	1:B:335:ASP:OD2	2.19	0.61
1:B:1409:ARG:NH2	1:B:1447:PHE:HB2	2.15	0.61
1:B:1495:ILE:HG13	1:B:1496:GLY:H	1.65	0.61
1:A:1417:LEU:HA	1:A:1420:VAL:HG12	1.83	0.61
1:A:1523:GLU:OE2	1:A:1527:ARG:NH2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:730:LEU:HD23	1:B:757:LEU:HA	1.82	0.61
1:B:1417:LEU:HA	1:B:1420:VAL:HG12	1.83	0.61
1:D:1630:TYR:CZ	1:D:1673:CYS:HB2	2.36	0.61
1:B:206:LEU:O	1:B:208:GLU:N	2.33	0.61
1:C:333:SER:OG	1:C:335:ASP:OD2	2.19	0.60
1:C:1523:GLU:OE2	1:C:1527:ARG:NH2	2.33	0.60
1:B:309:LEU:HD21	1:B:391:ARG:HH22	1.65	0.60
1:B:1938:VAL:HG11	1:B:2007:TYR:HB2	1.84	0.60
1:C:1417:LEU:HA	1:C:1420:VAL:HG12	1.83	0.60
1:D:309:LEU:HD21	1:D:391:ARG:HH22	1.65	0.60
1:B:1630:TYR:CZ	1:B:1673:CYS:HB2	2.36	0.60
1:A:583:SER:O	1:A:600:ARG:NH2	2.34	0.60
1:A:1890:ARG:NH1	1:A:1891:VAL:O	2.34	0.60
1:C:1890:ARG:NH1	1:C:1891:VAL:O	2.34	0.60
1:D:569:ASN:O	1:D:639:HIS:ND1	2.33	0.60
1:D:1551:VAL:O	1:D:1555:MET:HG3	2.01	0.60
1:B:1890:ARG:NH1	1:B:1891:VAL:O	2.34	0.60
1:A:934:PHE:O	1:A:938:MET:HG3	2.00	0.60
1:A:1026:THR:OG1	1:D:755:GLN:OE1	2.19	0.60
1:A:1449:GLU:CD	1:A:1449:GLU:H	2.09	0.60
1:C:309:LEU:HD21	1:C:391:ARG:HH22	1.66	0.60
1:C:569:ASN:HB2	1:C:639:HIS:HE1	1.67	0.60
1:C:656:PHE:N	1:C:677:SER:O	2.28	0.60
1:C:1593:PRO:HG2	1:C:1673:CYS:SG	2.41	0.60
1:D:206:LEU:O	1:D:208:GLU:N	2.33	0.60
1:B:1864:GLY:N	1:B:1869:GLN:OE1	2.30	0.60
1:C:1420:VAL:O	1:C:1423:SER:OG	2.10	0.60
1:C:1817:LYS:HB3	1:C:1819:TYR:CE2	2.37	0.60
1:D:1417:LEU:HA	1:D:1420:VAL:HG12	1.83	0.60
1:D:1890:ARG:NH1	1:D:1891:VAL:O	2.35	0.60
1:D:1938:VAL:HG11	1:D:2007:TYR:HB2	1.84	0.60
1:A:1525:LEU:O	1:A:1528:SER:OG	2.15	0.60
1:A:1630:TYR:CZ	1:A:1673:CYS:HB2	2.36	0.60
1:A:1756:PHE:HB2	1:A:1764:LEU:O	2.02	0.60
1:D:1593:PRO:HG2	1:D:1673:CYS:SG	2.41	0.60
1:D:1858:PRO:HG3	1:D:1870:HIS:CE1	2.37	0.60
1:D:1954:LEU:HD22	1:D:1971:ARG:HG3	1.83	0.60
1:B:1449:GLU:H	1:B:1449:GLU:CD	2.09	0.60
1:A:333:SER:OG	1:A:335:ASP:OD2	2.19	0.60
1:A:569:ASN:HB2	1:A:639:HIS:HE1	1.67	0.60
1:A:1954:LEU:HD22	1:A:1971:ARG:HG3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:934:PHE:O	1:C:938:MET:HG3	2.00	0.60
1:C:1650:ILE:O	1:C:1845:TYR:OH	2.18	0.60
1:C:1954:LEU:HD22	1:C:1971:ARG:HG3	1.83	0.60
1:B:97:PRO:HB2	1:B:99:ILE:HG13	1.84	0.60
1:B:583:SER:O	1:B:600:ARG:NH2	2.34	0.60
1:A:1551:VAL:O	1:A:1555:MET:HG3	2.01	0.60
1:A:1700:TYR:HB2	1:A:1737:ILE:HD11	1.82	0.60
1:C:97:PRO:HB2	1:C:99:ILE:HG13	1.84	0.60
1:C:583:SER:O	1:C:600:ARG:NH2	2.34	0.60
1:C:1551:VAL:O	1:C:1555:MET:HG3	2.01	0.60
1:C:1938:VAL:HG11	1:C:2007:TYR:HB2	1.84	0.60
1:D:1817:LYS:HB3	1:D:1819:TYR:CE2	2.37	0.60
1:B:1817:LYS:HB3	1:B:1819:TYR:CE2	2.37	0.60
1:A:309:LEU:HD21	1:A:391:ARG:HH22	1.65	0.60
1:A:1508:MET:O	1:A:1511:SER:OG	2.15	0.60
1:A:1804:ASP:O	1:A:1821:GLN:NE2	2.25	0.60
1:C:1386:THR:O	1:C:1389:SER:OG	2.16	0.60
1:C:1720:TYR:CE2	1:D:1738:MET:HE2	2.35	0.60
1:C:1802:ILE:HD13	1:C:1808:VAL:HG11	1.83	0.60
1:D:1809:ASP:H	1:D:1812:LYS:HZ3	1.50	0.60
1:B:1711:ILE:HG23	1:B:1723:LEU:HD22	1.81	0.60
1:A:1392:VAL:O	1:A:1395:THR:OG1	2.15	0.60
1:D:1270:GLN:O	1:D:1274:THR:OG1	2.16	0.60
1:B:1858:PRO:HG3	1:B:1870:HIS:CE1	2.37	0.60
1:B:1954:LEU:HD22	1:B:1971:ARG:HG3	1.83	0.60
1:B:1963:LEU:O	1:B:1967:HIS:ND1	2.25	0.60
1:A:97:PRO:HB2	1:A:99:ILE:HG13	1.84	0.59
1:A:569:ASN:O	1:A:639:HIS:ND1	2.33	0.59
1:A:1058:ASN:HB3	1:A:1107:HIS:HB3	1.84	0.59
1:A:1765:ASP:O	1:A:1767:GLN:NE2	2.31	0.59
1:C:1707:TYR:O	1:C:1711:ILE:HD12	2.02	0.59
1:C:1756:PHE:HB2	1:C:1764:LEU:O	2.02	0.59
1:D:1875:LEU:N	1:D:1895:GLU:O	2.28	0.59
1:B:1756:PHE:HB2	1:B:1764:LEU:O	2.02	0.59
1:A:1503:LYS:HD2	1:A:1554:LEU:HD13	1.84	0.59
1:C:1503:LYS:HD2	1:C:1554:LEU:HD13	1.85	0.59
1:D:623:LEU:HD11	1:D:627:VAL:HG22	1.84	0.59
1:D:1386:THR:O	1:D:1389:SER:OG	2.16	0.59
1:D:1802:ILE:HD13	1:D:1808:VAL:HG11	1.83	0.59
1:B:283:LEU:N	1:B:293:SER:OG	2.28	0.59
1:A:1858:PRO:HG3	1:A:1870:HIS:CE1	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1058:ASN:HB3	1:C:1107:HIS:HB3	1.84	0.59
1:C:1630:TYR:CZ	1:C:1673:CYS:HB2	2.36	0.59
1:D:97:PRO:HB2	1:D:99:ILE:HG13	1.84	0.59
1:B:1593:PRO:HG2	1:B:1673:CYS:SG	2.41	0.59
1:A:1593:PRO:HG2	1:A:1673:CYS:SG	2.41	0.59
1:A:1707:TYR:O	1:A:1711:ILE:HD12	2.02	0.59
1:C:988:GLU:OE2	1:C:992:HIS:ND1	2.36	0.59
1:D:543:PRO:HA	1:D:774:ALA:HA	1.85	0.59
1:D:988:GLU:OE2	1:D:992:HIS:ND1	2.36	0.59
1:B:1707:TYR:O	1:B:1711:ILE:HD12	2.02	0.59
1:B:1802:ILE:HD13	1:B:1808:VAL:HG11	1.83	0.59
1:A:569:ASN:HB2	1:A:639:HIS:CE1	2.38	0.59
1:A:1730:LEU:HD13	1:B:1727:HIS:HE1	1.66	0.59
1:A:1802:ILE:HD13	1:A:1808:VAL:HG11	1.83	0.59
1:A:1817:LYS:HB3	1:A:1819:TYR:CE2	2.37	0.59
1:D:1051:HIS:CE1	1:D:1053:HIS:H	2.21	0.59
1:B:569:ASN:HB2	1:B:639:HIS:CE1	2.38	0.59
1:A:345:VAL:HG22	1:A:391:ARG:CZ	2.33	0.59
1:A:988:GLU:OE2	1:A:992:HIS:ND1	2.36	0.59
1:A:1097:PHE:HE1	1:A:1268:LEU:HD11	1.68	0.59
1:C:261:ILE:N	1:C:327:PHE:O	2.36	0.59
1:C:345:VAL:HG22	1:C:391:ARG:CZ	2.33	0.59
1:C:569:ASN:HB2	1:C:639:HIS:CE1	2.38	0.59
1:B:345:VAL:HG22	1:B:391:ARG:CZ	2.33	0.59
1:A:263:VAL:HG22	1:A:500:ILE:HG12	1.84	0.59
1:A:1809:ASP:H	1:A:1812:LYS:HZ3	1.51	0.59
1:D:551:LEU:HB3	1:D:621:LEU:HB2	1.85	0.59
1:D:569:ASN:HB2	1:D:639:HIS:HE1	1.67	0.59
1:B:1503:LYS:HD2	1:B:1554:LEU:HD13	1.85	0.59
1:A:286:VAL:N	1:A:335:ASP:O	2.29	0.59
1:A:322:ALA:HA	1:A:528:PRO:HG2	1.85	0.59
1:A:623:LEU:HD11	1:A:627:VAL:HG22	1.85	0.59
1:C:567:VAL:HG13	1:C:570:LEU:HD21	1.85	0.59
1:C:1097:PHE:HE1	1:C:1268:LEU:HD11	1.68	0.59
1:C:1490:ARG:NE	1:C:1494:GLU:OE2	2.22	0.59
1:D:1058:ASN:HB3	1:D:1107:HIS:HB3	1.84	0.59
1:D:1864:GLY:N	1:D:1869:GLN:OE1	2.30	0.59
1:B:263:VAL:HG22	1:B:500:ILE:HG12	1.84	0.59
1:B:567:VAL:HG13	1:B:570:LEU:HD21	1.85	0.59
1:B:569:ASN:HB2	1:B:639:HIS:HE1	1.67	0.59
1:A:1650:ILE:O	1:A:1845:TYR:OH	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:263:VAL:HG22	1:C:500:ILE:HG12	1.84	0.59
1:C:322:ALA:HA	1:C:528:PRO:HG2	1.85	0.59
1:D:263:VAL:HG22	1:D:500:ILE:HG12	1.84	0.59
1:D:286:VAL:N	1:D:335:ASP:O	2.29	0.59
1:D:1503:LYS:HD2	1:D:1554:LEU:HD13	1.85	0.59
1:D:1707:TYR:O	1:D:1711:ILE:HD12	2.02	0.59
1:D:1756:PHE:HB2	1:D:1764:LEU:O	2.02	0.59
1:B:261:ILE:N	1:B:327:PHE:O	2.36	0.59
1:B:543:PRO:HA	1:B:774:ALA:HA	1.84	0.59
1:B:623:LEU:HD11	1:B:627:VAL:HG22	1.84	0.59
1:B:1769:PHE:HB3	1:B:1888:ARG:HB2	1.85	0.59
1:A:551:LEU:HB3	1:A:621:LEU:HB2	1.85	0.59
1:A:1447:PHE:CE2	1:A:1450:LEU:HB2	2.38	0.59
1:A:1938:VAL:HG11	1:A:2007:TYR:HB2	1.84	0.59
1:C:283:LEU:HD22	1:C:336:ILE:HG22	1.85	0.59
1:C:1769:PHE:HB3	1:C:1888:ARG:HB2	1.85	0.59
1:D:1531:THR:O	1:D:1534:THR:OG1	2.18	0.59
1:B:569:ASN:O	1:B:639:HIS:ND1	2.33	0.59
1:B:1051:HIS:CE1	1:B:1053:HIS:H	2.21	0.59
1:B:1531:THR:O	1:B:1534:THR:OG1	2.18	0.59
1:A:567:VAL:HG13	1:A:570:LEU:HD21	1.85	0.58
1:A:1721:LYS:HA	1:B:1738:MET:HG3	1.85	0.58
1:C:390:TYR:HB3	1:C:606:VAL:HG21	1.85	0.58
1:D:141:THR:HB	1:D:145:ARG:NH2	2.18	0.58
1:D:1449:GLU:H	1:D:1449:GLU:CD	2.09	0.58
1:A:1051:HIS:CE1	1:A:1053:HIS:H	2.21	0.58
1:A:1769:PHE:HB3	1:A:1888:ARG:HB2	1.85	0.58
1:D:1447:PHE:CE2	1:D:1450:LEU:HB2	2.38	0.58
1:D:1769:PHE:HB3	1:D:1888:ARG:HB2	1.85	0.58
1:B:283:LEU:HD22	1:B:336:ILE:HG22	1.85	0.58
1:B:988:GLU:OE2	1:B:992:HIS:ND1	2.36	0.58
1:A:656:PHE:N	1:A:677:SER:O	2.28	0.58
1:A:1531:THR:O	1:A:1534:THR:OG1	2.18	0.58
1:A:1802:ILE:HD11	1:A:1819:TYR:HB3	1.85	0.58
1:C:559:ASN:OD1	1:C:561:SER:OG	2.12	0.58
1:D:1097:PHE:HE1	1:D:1268:LEU:HD11	1.68	0.58
1:B:1447:PHE:CE2	1:B:1450:LEU:HB2	2.38	0.58
1:B:1793:ARG:HA	1:B:1793:ARG:NE	2.19	0.58
1:A:100:PRO:HD3	1:A:547:TYR:CE2	2.39	0.58
1:D:283:LEU:HD22	1:D:336:ILE:HG22	1.85	0.58
1:D:632:HIS:CD2	1:D:634:LEU:HB2	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1793:ARG:NE	1:D:1793:ARG:HA	2.19	0.58
1:B:390:TYR:HB3	1:B:606:VAL:HG21	1.85	0.58
1:B:1490:ARG:NE	1:B:1494:GLU:OE2	2.22	0.58
1:A:261:ILE:N	1:A:327:PHE:O	2.36	0.58
1:A:1386:THR:O	1:A:1389:SER:OG	2.16	0.58
1:A:1451:LEU:HB3	1:A:1459:CYS:HB2	1.86	0.58
1:A:1728:GLY:N	1:B:1731:GLN:OE1	2.37	0.58
1:C:1858:PRO:HG3	1:C:1870:HIS:CE1	2.37	0.58
1:D:345:VAL:HG22	1:D:391:ARG:CZ	2.33	0.58
1:D:567:VAL:HG13	1:D:570:LEU:HD21	1.85	0.58
1:D:835:TYR:HD1	1:D:839:ALA:HB3	1.69	0.58
1:B:141:THR:HB	1:B:145:ARG:NH2	2.18	0.58
1:B:551:LEU:HB3	1:B:621:LEU:HB2	1.85	0.58
1:C:1447:PHE:CE2	1:C:1450:LEU:HB2	2.38	0.58
1:C:1451:LEU:HB3	1:C:1459:CYS:HB2	1.86	0.58
1:B:1058:ASN:HB3	1:B:1107:HIS:HB3	1.84	0.58
1:A:632:HIS:CD2	1:A:634:LEU:HB2	2.39	0.58
1:A:1167:PRO:O	1:A:1171:ILE:HD12	2.04	0.58
1:B:1603:MET:O	1:B:1607:HIS:ND1	2.21	0.58
1:A:283:LEU:HD22	1:A:336:ILE:HG22	1.85	0.58
1:A:559:ASN:OD1	1:A:561:SER:OG	2.12	0.58
1:A:1730:LEU:HD13	1:B:1727:HIS:CE1	2.38	0.58
1:C:835:TYR:HD1	1:C:839:ALA:HB3	1.69	0.58
1:C:1167:PRO:O	1:C:1171:ILE:HD12	2.04	0.58
1:D:1594:ASP:HA	1:D:1678:PHE:HE2	1.69	0.58
1:D:1963:LEU:O	1:D:1967:HIS:ND1	2.25	0.58
1:A:141:THR:HB	1:A:145:ARG:NH2	2.18	0.58
1:A:835:TYR:HD1	1:A:839:ALA:HB3	1.69	0.58
1:C:623:LEU:HD11	1:C:627:VAL:HG22	1.84	0.58
1:C:663:GLN:HB2	1:C:668:ARG:HG2	1.86	0.58
1:C:1531:THR:O	1:C:1534:THR:OG1	2.18	0.58
1:D:100:PRO:HD3	1:D:547:TYR:CE2	2.39	0.58
1:D:663:GLN:HB2	1:D:668:ARG:HG2	1.86	0.58
1:B:100:PRO:HD3	1:B:547:TYR:CE2	2.39	0.58
1:B:104:LYS:NZ	1:B:105:LEU:O	2.37	0.58
1:B:632:HIS:CD2	1:B:634:LEU:HB2	2.39	0.58
1:A:543:PRO:HA	1:A:774:ALA:HA	1.84	0.58
1:A:1270:GLN:O	1:A:1274:THR:OG1	2.15	0.58
1:A:1594:ASP:HA	1:A:1678:PHE:HE2	1.69	0.58
1:C:543:PRO:HA	1:C:774:ALA:HA	1.84	0.58
1:C:569:ASN:O	1:C:639:HIS:ND1	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:569:ASN:HB2	1:D:639:HIS:CE1	2.38	0.58
1:B:835:TYR:HD1	1:B:839:ALA:HB3	1.69	0.58
1:B:1097:PHE:HE1	1:B:1268:LEU:HD11	1.68	0.58
1:A:1568:MET:HA	1:A:1578:LEU:HD11	1.86	0.57
1:C:1568:MET:HA	1:C:1578:LEU:HD11	1.86	0.57
1:D:1802:ILE:HD11	1:D:1819:TYR:HB3	1.85	0.57
1:C:1753:ARG:N	1:C:1823:THR:O	2.35	0.57
1:C:1809:ASP:H	1:C:1812:LYS:HZ3	1.52	0.57
1:D:322:ALA:HA	1:D:528:PRO:HG2	1.85	0.57
1:B:1594:ASP:HA	1:B:1678:PHE:HE2	1.69	0.57
1:A:390:TYR:HB3	1:A:606:VAL:HG21	1.85	0.57
1:A:560:PHE:HE1	1:A:700:VAL:HG11	1.69	0.57
1:C:141:THR:HB	1:C:145:ARG:NH2	2.18	0.57
1:C:551:LEU:HB3	1:C:621:LEU:HB2	1.85	0.57
1:D:104:LYS:NZ	1:D:105:LEU:O	2.37	0.57
1:D:1167:PRO:O	1:D:1171:ILE:HD12	2.04	0.57
1:D:1650:ILE:O	1:D:1845:TYR:OH	2.18	0.57
1:B:322:ALA:HA	1:B:528:PRO:HG2	1.85	0.57
1:C:632:HIS:CD2	1:C:634:LEU:HB2	2.39	0.57
1:C:1051:HIS:CE1	1:C:1053:HIS:H	2.21	0.57
1:D:286:VAL:HB	1:D:335:ASP:HB3	1.87	0.57
1:D:390:TYR:HB3	1:D:606:VAL:HG21	1.85	0.57
1:B:1557:ASN:O	1:B:1561:ILE:HG12	2.04	0.57
1:B:1802:ILE:HD11	1:B:1819:TYR:HB3	1.85	0.57
1:A:104:LYS:NZ	1:A:105:LEU:O	2.37	0.57
1:A:574:VAL:HG22	1:A:635:PHE:CE2	2.40	0.57
1:A:1727:HIS:CE1	1:B:1730:LEU:HD13	2.38	0.57
1:B:124:HIS:CE1	1:B:126:ARG:HA	2.40	0.57
1:B:1587:ARG:CZ	1:B:1596:ARG:HH22	2.17	0.57
1:A:1753:ARG:N	1:A:1823:THR:O	2.35	0.57
1:C:100:PRO:HD3	1:C:547:TYR:CE2	2.39	0.57
1:C:1557:ASN:O	1:C:1561:ILE:HG12	2.04	0.57
1:C:1594:ASP:HA	1:C:1678:PHE:HE2	1.69	0.57
1:D:1557:ASN:O	1:D:1561:ILE:HG12	2.04	0.57
1:D:1587:ARG:CZ	1:D:1596:ARG:HH22	2.17	0.57
1:D:1785:ARG:HH12	1:D:1789:PHE:N	2.03	0.57
1:B:581:ASP:OD2	1:B:583:SER:OG	2.13	0.57
1:B:1700:TYR:HB3	1:B:1733:ALA:HB1	1.86	0.57
1:A:663:GLN:HB2	1:A:668:ARG:HG2	1.86	0.57
1:A:1267:ALA:O	1:A:1271:ARG:HD3	2.05	0.57
1:A:1785:ARG:HH12	1:A:1789:PHE:N	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1793:ARG:NE	1:C:1793:ARG:HA	2.19	0.57
1:C:1802:ILE:HD11	1:C:1819:TYR:HB3	1.85	0.57
1:D:261:ILE:N	1:D:327:PHE:O	2.36	0.57
1:B:331:TYR:CZ	1:B:538:ARG:HB2	2.40	0.57
1:A:331:TYR:CZ	1:A:538:ARG:HB2	2.40	0.57
1:A:1557:ASN:O	1:A:1561:ILE:HG12	2.04	0.57
1:A:1587:ARG:CZ	1:A:1596:ARG:HH22	2.17	0.57
1:C:592:LYS:N	1:C:595:CYS:SG	2.78	0.57
1:D:1598:THR:O	1:D:1602:ASN:ND2	2.36	0.57
1:D:1700:TYR:HB3	1:D:1733:ALA:HB1	1.86	0.57
1:B:286:VAL:HB	1:B:335:ASP:HB3	1.87	0.57
1:B:546:SER:OG	1:B:548:ARG:NH2	2.38	0.57
1:B:663:GLN:HB2	1:B:668:ARG:HG2	1.86	0.57
1:A:124:HIS:CE1	1:A:126:ARG:HA	2.40	0.57
1:A:546:SER:OG	1:A:548:ARG:NH2	2.38	0.57
1:A:911:GLU:OE1	1:A:911:GLU:N	2.28	0.57
1:C:1267:ALA:O	1:C:1271:ARG:HD3	2.05	0.57
1:C:1520:PHE:CZ	1:C:1525:LEU:HD21	2.40	0.57
1:C:1562:LEU:O	1:C:1566:VAL:HG23	2.04	0.57
1:C:1950:ALA:HB1	1:C:1954:LEU:HD12	1.86	0.57
1:D:124:HIS:CE1	1:D:126:ARG:HA	2.40	0.57
1:B:560:PHE:HE1	1:B:700:VAL:HG11	1.69	0.57
1:B:694:LEU:H	1:B:699:TRP:HZ2	1.53	0.57
1:B:1167:PRO:O	1:B:1171:ILE:HD12	2.04	0.57
1:A:693:ALA:HB2	1:A:703:HIS:CE1	2.40	0.57
1:A:1781:GLU:O	1:A:1784:HIS:HB3	2.04	0.57
1:C:1989:LYS:HG3	1:C:1992:ILE:HD11	1.87	0.57
1:D:85:LEU:HD12	1:D:947:LEU:HD23	1.87	0.57
1:D:331:TYR:CZ	1:D:538:ARG:HB2	2.40	0.57
1:D:694:LEU:H	1:D:699:TRP:HZ2	1.53	0.57
1:D:1603:MET:O	1:D:1607:HIS:ND1	2.21	0.57
1:B:85:LEU:HD12	1:B:947:LEU:HD23	1.87	0.57
1:B:223:ARG:NH2	1:B:1397:GLU:OE1	2.38	0.57
1:B:592:LYS:N	1:B:595:CYS:SG	2.78	0.57
1:B:1781:GLU:O	1:B:1784:HIS:HB3	2.04	0.57
1:B:1950:ALA:HB1	1:B:1954:LEU:HD12	1.86	0.57
1:A:122:ILE:HD11	1:A:838:TYR:CD1	2.40	0.56
1:A:1700:TYR:HB3	1:A:1733:ALA:HB1	1.86	0.56
1:A:1793:ARG:NE	1:A:1793:ARG:HA	2.19	0.56
1:C:546:SER:OG	1:C:548:ARG:NH2	2.38	0.56
1:C:1529:LEU:HD13	1:C:1532:ILE:HD12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1568:MET:HA	1:D:1578:LEU:HD11	1.86	0.56
1:D:1781:GLU:O	1:D:1784:HIS:HB3	2.04	0.56
1:B:574:VAL:HG22	1:B:635:PHE:CE2	2.40	0.56
1:B:1451:LEU:HB3	1:B:1459:CYS:HB2	1.86	0.56
1:B:1785:ARG:HH12	1:B:1789:PHE:N	2.03	0.56
1:A:1520:PHE:CZ	1:A:1525:LEU:HD21	2.40	0.56
1:C:122:ILE:HD11	1:C:838:TYR:CD1	2.40	0.56
1:C:574:VAL:HG22	1:C:635:PHE:CE2	2.40	0.56
1:C:693:ALA:HB2	1:C:703:HIS:CE1	2.40	0.56
1:C:917:VAL:O	1:C:924:ARG:NH2	2.25	0.56
1:C:1587:ARG:CZ	1:C:1596:ARG:HH22	2.17	0.56
1:D:305:MET:HG3	1:D:308:LEU:HD12	1.87	0.56
1:D:592:LYS:N	1:D:595:CYS:SG	2.78	0.56
1:D:1451:LEU:HB3	1:D:1459:CYS:HB2	1.86	0.56
1:B:1562:LEU:O	1:B:1566:VAL:HG23	2.04	0.56
1:B:1875:LEU:N	1:B:1895:GLU:O	2.28	0.56
1:A:81:ASP:HB2	1:A:126:ARG:CZ	2.36	0.56
1:A:541:TYR:HE1	1:A:770:GLU:HG3	1.71	0.56
1:A:1529:LEU:HD13	1:A:1532:ILE:HD12	1.88	0.56
1:A:1562:LEU:O	1:A:1566:VAL:HG23	2.04	0.56
1:A:1989:LYS:HG3	1:A:1992:ILE:HD11	1.87	0.56
1:C:124:HIS:CE1	1:C:126:ARG:HA	2.40	0.56
1:C:560:PHE:HE1	1:C:700:VAL:HG11	1.69	0.56
1:C:581:ASP:OD2	1:C:583:SER:OG	2.13	0.56
1:C:1700:TYR:HB3	1:C:1733:ALA:HB1	1.86	0.56
1:D:223:ARG:NH2	1:D:1397:GLU:OE1	2.38	0.56
1:D:574:VAL:HG22	1:D:635:PHE:CE2	2.40	0.56
1:D:1395:THR:O	1:D:1399:ILE:HG13	2.05	0.56
1:B:1013:VAL:O	1:B:1017:VAL:HG23	2.05	0.56
1:B:1267:ALA:O	1:B:1271:ARG:HD3	2.05	0.56
1:B:1395:THR:O	1:B:1399:ILE:HG13	2.05	0.56
1:B:1463:CYS:HA	1:B:1466:LEU:HD12	1.87	0.56
1:B:1520:PHE:CZ	1:B:1525:LEU:HD21	2.40	0.56
1:B:1568:MET:HA	1:B:1578:LEU:HD11	1.86	0.56
1:A:305:MET:HG3	1:A:308:LEU:HD12	1.87	0.56
1:A:1395:THR:O	1:A:1399:ILE:HG13	2.05	0.56
1:C:541:TYR:HE1	1:C:770:GLU:HG3	1.71	0.56
1:C:1877:SER:O	1:C:1892:CYS:N	2.38	0.56
1:D:122:ILE:HD11	1:D:838:TYR:CD1	2.40	0.56
1:B:1989:LYS:HG3	1:B:1992:ILE:HD11	1.87	0.56
1:A:911:GLU:HA	1:A:914:LEU:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:85:LEU:HD12	1:C:947:LEU:HD23	1.87	0.56
1:C:223:ARG:NH2	1:C:1397:GLU:OE1	2.38	0.56
1:C:305:MET:HG3	1:C:308:LEU:HD12	1.87	0.56
1:D:284:TYR:CD2	1:D:291:LYS:HA	2.41	0.56
1:D:1267:ALA:O	1:D:1271:ARG:HD3	2.05	0.56
1:D:1463:CYS:HA	1:D:1466:LEU:HD12	1.87	0.56
1:D:1520:PHE:CZ	1:D:1525:LEU:HD21	2.40	0.56
1:B:693:ALA:HB2	1:B:703:HIS:CE1	2.40	0.56
1:A:223:ARG:NH2	1:A:1397:GLU:OE1	2.38	0.56
1:A:286:VAL:HB	1:A:335:ASP:HB3	1.87	0.56
1:D:546:SER:OG	1:D:548:ARG:NH2	2.38	0.56
1:D:911:GLU:HA	1:D:914:LEU:HB3	1.87	0.56
1:D:1013:VAL:O	1:D:1017:VAL:HG23	2.05	0.56
1:D:1562:LEU:O	1:D:1566:VAL:HG23	2.04	0.56
1:D:1950:ALA:HB1	1:D:1954:LEU:HD12	1.86	0.56
1:A:694:LEU:H	1:A:699:TRP:HZ2	1.53	0.56
1:C:911:GLU:OE1	1:C:911:GLU:N	2.28	0.56
1:C:1395:THR:O	1:C:1399:ILE:HG13	2.05	0.56
1:D:693:ALA:HB2	1:D:703:HIS:CE1	2.40	0.56
1:B:122:ILE:HD11	1:B:838:TYR:CD1	2.40	0.56
1:B:1753:ARG:O	1:B:1822:ILE:HA	2.06	0.56
1:B:1753:ARG:N	1:B:1823:THR:O	2.35	0.56
1:A:227:ARG:NH2	1:A:1394:ASP:OD2	2.39	0.56
1:A:592:LYS:N	1:A:595:CYS:SG	2.78	0.56
1:A:1753:ARG:O	1:A:1822:ILE:HA	2.06	0.56
1:A:1788:GLU:O	1:A:1792:GLU:HG3	2.06	0.56
1:C:81:ASP:HB2	1:C:126:ARG:CZ	2.36	0.56
1:C:104:LYS:NZ	1:C:105:LEU:O	2.37	0.56
1:D:560:PHE:HE1	1:D:700:VAL:HG11	1.69	0.56
1:B:1877:SER:O	1:B:1892:CYS:N	2.38	0.56
1:A:1877:SER:O	1:A:1892:CYS:N	2.38	0.56
1:C:244:VAL:HA	1:C:1046:ARG:CZ	2.36	0.56
1:C:284:TYR:CD2	1:C:291:LYS:HA	2.41	0.56
1:C:1753:ARG:O	1:C:1822:ILE:HA	2.06	0.56
1:C:1963:LEU:O	1:C:1967:HIS:ND1	2.26	0.56
1:D:1877:SER:O	1:D:1892:CYS:N	2.38	0.56
1:A:1627:VAL:HB	1:A:1683:LEU:HD13	1.88	0.56
1:C:227:ARG:NH2	1:C:1394:ASP:OD2	2.39	0.56
1:C:286:VAL:HB	1:C:335:ASP:HB3	1.87	0.56
1:C:1773:GLU:HB2	1:C:1782:ILE:HD12	1.88	0.56
1:C:1781:GLU:O	1:C:1784:HIS:HB3	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1873:LYS:O	1:D:1897:THR:OG1	2.23	0.56
1:B:284:TYR:CD2	1:B:291:LYS:HA	2.41	0.56
1:B:1058:ASN:O	1:B:1107:HIS:ND1	2.37	0.56
1:A:85:LEU:HD12	1:A:947:LEU:HD23	1.87	0.55
1:C:331:TYR:CZ	1:C:538:ARG:HB2	2.40	0.55
1:C:694:LEU:H	1:C:699:TRP:HZ2	1.53	0.55
1:C:1013:VAL:O	1:C:1017:VAL:HG23	2.05	0.55
1:D:1938:VAL:HA	1:D:2010:LEU:HD22	1.88	0.55
1:B:305:MET:HG3	1:B:308:LEU:HD12	1.87	0.55
1:B:1122:GLU:CD	1:B:1123:PRO:HD2	2.32	0.55
1:B:1525:LEU:O	1:B:1528:SER:OG	2.15	0.55
1:B:1938:VAL:HA	1:B:2010:LEU:HD22	1.88	0.55
1:A:244:VAL:HA	1:A:1046:ARG:CZ	2.36	0.55
1:A:574:VAL:HB	1:A:602:ALA:HB3	1.87	0.55
1:A:1773:GLU:HB2	1:A:1782:ILE:HD12	1.88	0.55
1:C:404:ILE:HG23	1:C:452:ALA:HB3	1.88	0.55
1:C:574:VAL:HB	1:C:602:ALA:HB3	1.87	0.55
1:C:911:GLU:HA	1:C:914:LEU:HB3	1.87	0.55
1:C:1788:GLU:O	1:C:1792:GLU:HG3	2.06	0.55
1:D:227:ARG:NH2	1:D:1394:ASP:OD2	2.39	0.55
1:D:244:VAL:HA	1:D:1046:ARG:CZ	2.36	0.55
1:B:227:ARG:NH2	1:B:1394:ASP:OD2	2.39	0.55
1:B:244:VAL:HA	1:B:1046:ARG:CZ	2.36	0.55
1:B:1598:THR:O	1:B:1602:ASN:ND2	2.36	0.55
1:B:1773:GLU:HB2	1:B:1782:ILE:HD12	1.89	0.55
1:C:1058:ASN:O	1:C:1107:HIS:ND1	2.37	0.55
1:C:2005:ARG:HD2	1:C:2009:ARG:NH1	2.22	0.55
1:D:1122:GLU:CD	1:D:1123:PRO:HD2	2.32	0.55
1:D:1714:LEU:HB2	1:D:1723:LEU:HD21	1.89	0.55
1:B:1164:LEU:HB2	1:B:1165:TYR:CE1	2.42	0.55
1:A:699:TRP:HB3	1:A:703:HIS:H	1.72	0.55
1:C:1846:GLY:HA2	1:C:1881:ALA:HB1	1.89	0.55
1:C:2005:ARG:HD2	1:C:2009:ARG:HH12	1.71	0.55
1:D:81:ASP:HB2	1:D:126:ARG:CZ	2.36	0.55
1:D:632:HIS:CD2	1:D:658:TRP:HB2	2.42	0.55
1:D:1525:LEU:O	1:D:1528:SER:OG	2.15	0.55
1:D:1627:VAL:HB	1:D:1683:LEU:HD13	1.88	0.55
1:D:1753:ARG:O	1:D:1822:ILE:HA	2.06	0.55
1:B:81:ASP:HB2	1:B:126:ARG:CZ	2.36	0.55
1:B:466:ARG:HH12	1:B:605:PRO:HG2	1.71	0.55
1:B:541:TYR:HE1	1:B:770:GLU:HG3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1627:VAL:HB	1:B:1683:LEU:HD13	1.88	0.55
1:B:1846:GLY:HA2	1:B:1881:ALA:HB1	1.89	0.55
1:B:2005:ARG:HD2	1:B:2009:ARG:NH1	2.22	0.55
1:A:928:LEU:HD13	1:A:978:GLU:HG2	1.89	0.55
1:A:2005:ARG:HD2	1:A:2009:ARG:HH12	1.71	0.55
1:C:699:TRP:HB3	1:C:703:HIS:H	1.72	0.55
1:C:1607:HIS:HA	1:C:1610:LEU:HD12	1.89	0.55
1:C:1758:GLY:N	1:C:1765:ASP:OD1	2.30	0.55
1:D:699:TRP:HB3	1:D:703:HIS:H	1.72	0.55
1:D:1436:GLY:O	1:D:1439:THR:HB	2.07	0.55
1:D:1989:LYS:HG3	1:D:1992:ILE:HD11	1.87	0.55
1:B:632:HIS:CD2	1:B:658:TRP:HB2	2.42	0.55
1:B:656:PHE:O	1:B:677:SER:N	2.40	0.55
1:B:911:GLU:HA	1:B:914:LEU:HB3	1.87	0.55
1:B:1522:GLU:HG3	1:B:1562:LEU:HD21	1.88	0.55
1:B:1714:LEU:HB2	1:B:1723:LEU:HD21	1.89	0.55
1:A:467:LEU:HD21	1:A:475:PHE:HD2	1.72	0.55
1:A:656:PHE:O	1:A:677:SER:N	2.40	0.55
1:A:1013:VAL:O	1:A:1017:VAL:HG23	2.05	0.55
1:A:1566:VAL:O	1:A:1569:LYS:N	2.40	0.55
1:A:1950:ALA:HB1	1:A:1954:LEU:HD12	1.86	0.55
1:A:1963:LEU:O	1:A:1967:HIS:ND1	2.26	0.55
1:C:92:CYS:SG	1:C:94:THR:OG1	2.65	0.55
1:C:1748:PHE:O	1:C:1775:SER:HB3	2.07	0.55
1:D:466:ARG:HH12	1:D:605:PRO:HG2	1.71	0.55
1:D:1529:LEU:HD13	1:D:1532:ILE:HD12	1.87	0.55
1:D:1773:GLU:HB2	1:D:1782:ILE:HD12	1.88	0.55
1:B:404:ILE:HG23	1:B:452:ALA:HB3	1.88	0.55
1:B:541:TYR:CE1	1:B:770:GLU:HG3	2.42	0.55
1:B:574:VAL:HB	1:B:602:ALA:HB3	1.87	0.55
1:B:2005:ARG:HD2	1:B:2009:ARG:HH12	1.71	0.55
1:A:541:TYR:CE1	1:A:770:GLU:HG3	2.42	0.55
1:A:1463:CYS:HA	1:A:1466:LEU:HD12	1.87	0.55
1:C:570:LEU:HD13	1:C:637:PHE:HD1	1.72	0.55
1:C:1463:CYS:HA	1:C:1466:LEU:HD12	1.87	0.55
1:C:1575:PRO:O	1:C:1579:ILE:HG12	2.07	0.55
1:C:1627:VAL:HB	1:C:1683:LEU:HD13	1.87	0.55
1:C:1725:ALA:O	1:C:1729:LYS:HG3	2.07	0.55
1:C:1785:ARG:HH12	1:C:1789:PHE:N	2.03	0.55
1:C:1856:PHE:CE1	1:C:1872:ARG:HB2	2.39	0.55
1:D:484:SER:HB2	1:B:1370:THR:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:553:VAL:HG12	1:D:555:PRO:HD3	1.89	0.55
1:D:1164:LEU:HB2	1:D:1165:TYR:CE1	2.42	0.55
1:D:1505:GLN:HA	1:D:1508:MET:HE3	1.89	0.55
1:D:1748:PHE:O	1:D:1775:SER:HB3	2.07	0.55
1:B:699:TRP:HB3	1:B:703:HIS:H	1.72	0.55
1:B:1505:GLN:HA	1:B:1508:MET:HE3	1.89	0.55
1:B:1575:PRO:O	1:B:1579:ILE:HG12	2.07	0.55
1:B:1788:GLU:O	1:B:1792:GLU:HG3	2.06	0.55
1:B:1873:LYS:O	1:B:1897:THR:OG1	2.23	0.55
1:C:216:ASP:OD1	1:C:217:ARG:N	2.40	0.55
1:C:1505:GLN:HA	1:C:1508:MET:HE3	1.89	0.55
1:D:467:LEU:HD21	1:D:475:PHE:HD2	1.72	0.55
1:D:541:TYR:HE1	1:D:770:GLU:HG3	1.71	0.55
1:D:1566:VAL:O	1:D:1569:LYS:N	2.40	0.55
1:D:1676:LYS:O	1:D:1679:THR:OG1	2.22	0.55
1:B:553:VAL:HG12	1:B:555:PRO:HD3	1.89	0.55
1:B:570:LEU:HD13	1:B:637:PHE:HD1	1.72	0.55
1:B:1758:GLY:N	1:B:1765:ASP:OD1	2.30	0.55
1:A:404:ILE:HG23	1:A:452:ALA:HB3	1.88	0.55
1:A:917:VAL:O	1:A:924:ARG:NH2	2.25	0.55
1:A:1164:LEU:HB2	1:A:1165:TYR:CE1	2.42	0.55
1:A:1522:GLU:HG3	1:A:1562:LEU:HD21	1.88	0.55
1:A:1575:PRO:O	1:A:1579:ILE:HG12	2.07	0.55
1:D:216:ASP:OD1	1:D:217:ARG:N	2.40	0.55
1:D:404:ILE:HG23	1:D:452:ALA:HB3	1.88	0.55
1:D:656:PHE:O	1:D:677:SER:N	2.40	0.55
1:B:1159:ALA:O	1:B:1163:GLU:HG3	2.07	0.55
1:B:1436:GLY:O	1:B:1439:THR:HB	2.07	0.55
1:B:1529:LEU:HD13	1:B:1532:ILE:HD12	1.88	0.55
1:C:124:HIS:NE2	1:C:126:ARG:HA	2.22	0.55
1:C:656:PHE:O	1:C:677:SER:N	2.40	0.55
1:C:928:LEU:HD13	1:C:978:GLU:HG2	1.89	0.55
1:C:1436:GLY:O	1:C:1439:THR:HB	2.07	0.55
1:D:92:CYS:SG	1:D:94:THR:OG1	2.65	0.55
1:D:971:LEU:O	1:D:975:VAL:HG23	2.07	0.55
1:D:1129:PHE:HA	1:D:1132:HIS:ND1	2.22	0.55
1:D:1960:ASP:HB3	1:D:1963:LEU:HG	1.88	0.55
1:B:124:HIS:NE2	1:B:126:ARG:HA	2.22	0.55
1:A:284:TYR:CD2	1:A:291:LYS:HA	2.41	0.54
1:A:2005:ARG:HD2	1:A:2009:ARG:NH1	2.22	0.54
1:C:1122:GLU:CD	1:C:1123:PRO:HD2	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1159:ALA:O	1:C:1163:GLU:HG3	2.07	0.54
1:D:1522:GLU:HG3	1:D:1562:LEU:HD21	1.88	0.54
1:D:1756:PHE:HB3	1:D:1761:PHE:CD2	2.42	0.54
1:D:1758:GLY:N	1:D:1765:ASP:OD1	2.30	0.54
1:D:2005:ARG:HD2	1:D:2009:ARG:NH1	2.22	0.54
1:B:1403:VAL:HG21	1:B:1412:VAL:HG11	1.89	0.54
1:B:1809:ASP:H	1:B:1812:LYS:HZ3	1.54	0.54
1:A:1159:ALA:O	1:A:1163:GLU:HG3	2.07	0.54
1:A:1707:TYR:HA	1:A:1710:LEU:HB3	1.89	0.54
1:A:1960:ASP:HB3	1:A:1963:LEU:HG	1.88	0.54
1:C:1756:PHE:HB3	1:C:1761:PHE:CD2	2.42	0.54
1:D:1090:ASP:HB3	1:D:1093:VAL:HG22	1.89	0.54
1:D:1159:ALA:O	1:D:1163:GLU:HG3	2.07	0.54
1:D:1846:GLY:HA2	1:D:1881:ALA:HB1	1.89	0.54
1:B:231:LEU:HB2	1:B:1262:LYS:NZ	2.19	0.54
1:B:971:LEU:O	1:B:975:VAL:HG23	2.08	0.54
1:B:1129:PHE:HA	1:B:1132:HIS:ND1	2.22	0.54
1:A:1505:GLN:HA	1:A:1508:MET:HE3	1.89	0.54
1:A:1607:HIS:HA	1:A:1610:LEU:HD12	1.89	0.54
1:A:1748:PHE:O	1:A:1775:SER:HB3	2.07	0.54
1:A:1846:GLY:HA2	1:A:1881:ALA:HB1	1.89	0.54
1:C:466:ARG:HH12	1:C:605:PRO:HG2	1.71	0.54
1:C:986:ASP:OD1	1:C:986:ASP:N	2.39	0.54
1:C:1598:THR:O	1:C:1602:ASN:ND2	2.36	0.54
1:D:1575:PRO:O	1:D:1579:ILE:HG12	2.07	0.54
1:D:1725:ALA:O	1:D:1729:LYS:HG3	2.07	0.54
1:D:1788:GLU:O	1:D:1792:GLU:HG3	2.06	0.54
1:D:2005:ARG:HD2	1:D:2009:ARG:HH12	1.71	0.54
1:B:216:ASP:OD1	1:B:217:ARG:N	2.40	0.54
1:B:1960:ASP:HB3	1:B:1963:LEU:HG	1.88	0.54
1:A:784:VAL:O	1:A:787:VAL:N	2.40	0.54
1:C:284:TYR:HB3	1:C:473:PHE:CE1	2.43	0.54
1:C:541:TYR:CE1	1:C:770:GLU:HG3	2.42	0.54
1:C:1522:GLU:HG3	1:C:1562:LEU:HD21	1.88	0.54
1:C:1714:LEU:HB2	1:C:1723:LEU:HD21	1.89	0.54
1:D:574:VAL:HB	1:D:602:ALA:HB3	1.87	0.54
1:D:1403:VAL:HG21	1:D:1412:VAL:HG11	1.89	0.54
1:B:1566:VAL:O	1:B:1569:LYS:N	2.40	0.54
1:B:1756:PHE:HB3	1:B:1761:PHE:CD2	2.43	0.54
1:A:284:TYR:HB3	1:A:473:PHE:CE1	2.43	0.54
1:A:1030:SER:HB2	1:D:766:LEU:HD11	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1122:GLU:CD	1:A:1123:PRO:HD2	2.32	0.54
1:A:1146:HIS:NE2	1:A:1165:TYR:OH	2.40	0.54
1:A:1798:VAL:O	1:A:1818:ALA:N	2.28	0.54
1:C:632:HIS:CD2	1:C:658:TRP:HB2	2.42	0.54
1:C:1960:ASP:HB3	1:C:1963:LEU:HG	1.88	0.54
1:D:784:VAL:O	1:D:787:VAL:N	2.40	0.54
1:D:1005:LEU:HG	1:D:1013:VAL:HG11	1.90	0.54
1:B:92:CYS:SG	1:B:94:THR:OG1	2.65	0.54
1:B:784:VAL:O	1:B:788:ILE:HD12	2.08	0.54
1:B:1005:LEU:HG	1:B:1013:VAL:HG11	1.89	0.54
1:A:216:ASP:OD1	1:A:217:ARG:N	2.40	0.54
1:A:466:ARG:HH12	1:A:605:PRO:HG2	1.71	0.54
1:A:632:HIS:CD2	1:A:658:TRP:HB2	2.42	0.54
1:A:1490:ARG:NE	1:A:1494:GLU:OE2	2.22	0.54
1:C:467:LEU:HD21	1:C:475:PHE:HD2	1.72	0.54
1:C:1566:VAL:O	1:C:1569:LYS:N	2.40	0.54
1:D:541:TYR:CE1	1:D:770:GLU:HG3	2.42	0.54
1:D:1856:PHE:CE1	1:D:1872:ARG:HB2	2.39	0.54
1:B:928:LEU:HD13	1:B:978:GLU:HG2	1.89	0.54
1:B:1090:ASP:HB3	1:B:1093:VAL:HG22	1.89	0.54
1:B:1748:PHE:O	1:B:1775:SER:HB3	2.07	0.54
1:A:1725:ALA:O	1:A:1729:LYS:HG3	2.07	0.54
1:A:1756:PHE:HB3	1:A:1761:PHE:CD2	2.43	0.54
1:C:88:GLN:HG2	1:C:120:TRP:HD1	1.73	0.54
1:C:1164:LEU:HB2	1:C:1165:TYR:CE1	2.42	0.54
1:D:124:HIS:NE2	1:D:126:ARG:HA	2.22	0.54
1:D:1433:LEU:O	1:D:1437:LEU:HG	2.08	0.54
1:B:1436:GLY:C	1:B:1440:GLN:HE22	2.15	0.54
1:B:1725:ALA:O	1:B:1729:LYS:HG3	2.07	0.54
1:A:553:VAL:HG12	1:A:555:PRO:HD3	1.89	0.54
1:A:570:LEU:HD13	1:A:637:PHE:HD1	1.72	0.54
1:A:1436:GLY:C	1:A:1440:GLN:HE22	2.15	0.54
1:A:1856:PHE:CE1	1:A:1872:ARG:HB2	2.39	0.54
1:A:1938:VAL:HA	1:A:2010:LEU:HD22	1.88	0.54
1:B:90:ARG:NH1	1:B:115:MET:O	2.41	0.54
1:B:467:LEU:HD21	1:B:475:PHE:HD2	1.72	0.54
1:B:783:LEU:O	1:B:787:VAL:HG23	2.08	0.54
1:B:1146:HIS:NE2	1:B:1165:TYR:OH	2.40	0.54
1:B:1493:PHE:O	1:B:1497:HIS:HA	2.08	0.54
1:B:1607:HIS:HA	1:B:1610:LEU:HD12	1.89	0.54
1:A:784:VAL:O	1:A:788:ILE:HD12	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1129:PHE:HA	1:A:1132:HIS:ND1	2.22	0.54
1:A:1436:GLY:O	1:A:1439:THR:HB	2.07	0.54
1:A:1714:LEU:HB2	1:A:1723:LEU:HD21	1.89	0.54
1:C:784:VAL:O	1:C:787:VAL:N	2.40	0.54
1:C:1044:PHE:O	1:C:1048:LEU:HD23	2.08	0.54
1:C:1090:ASP:HB3	1:C:1093:VAL:HG22	1.89	0.54
1:C:1129:PHE:HA	1:C:1132:HIS:ND1	2.22	0.54
1:C:1146:HIS:NE2	1:C:1165:TYR:OH	2.40	0.54
1:C:1403:VAL:HG21	1:C:1412:VAL:HG11	1.89	0.54
1:D:88:GLN:HG2	1:D:120:TRP:HD1	1.73	0.54
1:D:761:LEU:HA	1:D:764:LEU:HD23	1.90	0.54
1:D:1058:ASN:O	1:D:1107:HIS:ND1	2.37	0.54
1:D:1420:VAL:O	1:D:1423:SER:OG	2.10	0.54
1:B:284:TYR:HB3	1:B:473:PHE:CE1	2.43	0.54
1:B:911:GLU:OE1	1:B:911:GLU:N	2.28	0.54
1:A:757:LEU:O	1:A:760:SER:OG	2.23	0.54
1:A:1005:LEU:HG	1:A:1013:VAL:HG11	1.90	0.54
1:A:1052:GLU:HG3	1:A:1053:HIS:N	2.23	0.54
1:A:1493:PHE:O	1:A:1497:HIS:HA	2.08	0.54
1:A:1504:MET:O	1:A:1508:MET:HG3	2.08	0.54
1:A:1724:ALA:O	1:B:1731:GLN:OE1	2.26	0.54
1:A:1828:TYR:HB3	1:A:1849:THR:HG22	1.91	0.54
1:C:1005:LEU:HG	1:C:1013:VAL:HG11	1.90	0.54
1:C:1549:GLU:H	1:C:1549:GLU:CD	2.16	0.54
1:D:467:LEU:HD11	1:D:475:PHE:HE2	1.73	0.54
1:D:783:LEU:O	1:D:787:VAL:HG23	2.08	0.54
1:A:92:CYS:SG	1:A:94:THR:OG1	2.65	0.53
1:A:248:SER:H	1:A:826:ARG:HD3	1.73	0.53
1:C:248:SER:H	1:C:826:ARG:HD3	1.73	0.53
1:C:1707:TYR:HA	1:C:1710:LEU:HB3	1.89	0.53
1:D:284:TYR:HB3	1:D:473:PHE:CE1	2.43	0.53
1:D:721:ASP:OD1	1:D:724:LEU:N	2.28	0.53
1:D:1052:GLU:HG3	1:D:1053:HIS:N	2.23	0.53
1:B:1533:LEU:HG	1:B:1555:MET:SD	2.49	0.53
1:B:1989:LYS:N	1:B:2000:HIS:HE1	2.07	0.53
1:A:337:PHE:CE1	1:A:400:HIS:HB2	2.43	0.53
1:A:971:LEU:O	1:A:975:VAL:HG23	2.07	0.53
1:A:1989:LYS:N	1:A:2000:HIS:HE1	2.07	0.53
1:C:1525:LEU:O	1:C:1528:SER:OG	2.15	0.53
1:C:1533:LEU:HG	1:C:1555:MET:SD	2.49	0.53
1:C:1728:GLY:N	1:D:1731:GLN:OE1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1749:GLY:HA2	1:C:1775:SER:N	2.24	0.53
1:C:1938:VAL:HA	1:C:2010:LEU:HD22	1.88	0.53
1:D:928:LEU:HD13	1:D:978:GLU:HG2	1.89	0.53
1:D:1989:LYS:N	1:D:2000:HIS:HE1	2.07	0.53
1:B:88:GLN:HG2	1:B:120:TRP:HD1	1.73	0.53
1:B:1052:GLU:HG3	1:B:1053:HIS:N	2.23	0.53
1:B:1856:PHE:CE1	1:B:1872:ARG:HB2	2.39	0.53
1:A:1044:PHE:O	1:A:1048:LEU:HD23	2.08	0.53
1:C:90:ARG:NH1	1:C:115:MET:O	2.41	0.53
1:C:1433:LEU:O	1:C:1437:LEU:HG	2.08	0.53
1:D:570:LEU:HD13	1:D:637:PHE:HD1	1.72	0.53
1:D:1490:ARG:NE	1:D:1494:GLU:OE2	2.22	0.53
1:D:1753:ARG:N	1:D:1823:THR:O	2.35	0.53
1:B:288:GLU:HG2	1:B:290:LYS:HE2	1.90	0.53
1:B:337:PHE:CE1	1:B:400:HIS:HB2	2.43	0.53
1:B:467:LEU:HD11	1:B:475:PHE:HE2	1.73	0.53
1:B:761:LEU:HA	1:B:764:LEU:HD23	1.90	0.53
1:B:1044:PHE:O	1:B:1048:LEU:HD23	2.08	0.53
1:B:1749:GLY:HA2	1:B:1775:SER:N	2.24	0.53
1:A:90:ARG:NH1	1:A:115:MET:O	2.41	0.53
1:A:124:HIS:NE2	1:A:126:ARG:HA	2.22	0.53
1:A:405:VAL:HG22	1:A:449:PHE:CG	2.44	0.53
1:A:467:LEU:HD11	1:A:475:PHE:HE2	1.73	0.53
1:A:1090:ASP:HB3	1:A:1093:VAL:HG22	1.89	0.53
1:A:1648:GLN:OE1	1:A:1654:VAL:HG12	2.09	0.53
1:C:231:LEU:HB2	1:C:1262:LYS:NZ	2.19	0.53
1:C:577:MET:O	1:C:631:HIS:HA	2.08	0.53
1:C:783:LEU:O	1:C:787:VAL:HG23	2.08	0.53
1:C:1648:GLN:OE1	1:C:1654:VAL:HG12	2.09	0.53
1:D:911:GLU:OE1	1:D:911:GLU:N	2.28	0.53
1:D:943:ALA:O	1:D:946:LEU:N	2.42	0.53
1:D:1493:PHE:O	1:D:1497:HIS:HA	2.08	0.53
1:D:1607:HIS:HA	1:D:1610:LEU:HD12	1.89	0.53
1:D:1707:TYR:HA	1:D:1710:LEU:HB3	1.89	0.53
1:B:943:ALA:O	1:B:946:LEU:N	2.42	0.53
1:A:88:GLN:HG2	1:A:120:TRP:HD1	1.73	0.53
1:A:1403:VAL:HG21	1:A:1412:VAL:HG11	1.89	0.53
1:A:1722:LYS:O	1:A:1726:VAL:HG23	2.09	0.53
1:C:337:PHE:CE1	1:C:400:HIS:HB2	2.43	0.53
1:C:784:VAL:O	1:C:788:ILE:HD12	2.08	0.53
1:C:1828:TYR:HB3	1:C:1849:THR:HG22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:405:VAL:HG22	1:D:449:PHE:CG	2.44	0.53
1:D:577:MET:O	1:D:631:HIS:HA	2.09	0.53
1:D:917:VAL:O	1:D:924:ARG:NH2	2.24	0.53
1:D:1146:HIS:NE2	1:D:1165:TYR:OH	2.40	0.53
1:B:784:VAL:O	1:B:787:VAL:N	2.40	0.53
1:A:1433:LEU:O	1:A:1437:LEU:HG	2.08	0.53
1:C:971:LEU:O	1:C:975:VAL:HG23	2.08	0.53
1:C:1722:LYS:O	1:C:1726:VAL:HG23	2.09	0.53
1:D:90:ARG:NH1	1:D:115:MET:O	2.41	0.53
1:D:784:VAL:O	1:D:788:ILE:HD12	2.08	0.53
1:D:1436:GLY:C	1:D:1440:GLN:HE22	2.15	0.53
1:B:1433:LEU:O	1:B:1437:LEU:HG	2.08	0.53
1:C:553:VAL:HG12	1:C:555:PRO:HD3	1.89	0.53
1:C:977:LEU:HD11	1:B:802:ARG:HH12	1.73	0.53
1:C:1052:GLU:HG3	1:C:1053:HIS:N	2.23	0.53
1:D:248:SER:H	1:D:826:ARG:HD3	1.73	0.53
1:D:1504:MET:O	1:D:1508:MET:HG3	2.08	0.53
1:B:917:VAL:O	1:B:924:ARG:NH2	2.25	0.53
1:A:761:LEU:HA	1:A:764:LEU:HD23	1.90	0.53
1:A:783:LEU:O	1:A:787:VAL:HG23	2.08	0.53
1:A:1758:GLY:N	1:A:1765:ASP:OD1	2.30	0.53
1:C:766:LEU:HD11	1:B:1030:SER:HB2	1.90	0.53
1:C:943:ALA:O	1:C:946:LEU:N	2.42	0.53
1:C:1701:GLU:HG3	1:C:1841:PHE:CD2	2.44	0.53
1:C:1729:LYS:HA	1:C:1732:GLU:CD	2.34	0.53
1:C:1989:LYS:N	1:C:2000:HIS:HE1	2.07	0.53
1:D:231:LEU:HB2	1:D:1262:LYS:NZ	2.19	0.53
1:D:283:LEU:HD21	1:D:401:LEU:HD11	1.91	0.53
1:D:1533:LEU:HG	1:D:1555:MET:SD	2.48	0.53
1:D:1749:GLY:HA2	1:D:1775:SER:N	2.24	0.53
1:D:1828:TYR:HB3	1:D:1849:THR:HG22	1.91	0.53
1:B:577:MET:O	1:B:631:HIS:HA	2.08	0.53
1:A:288:GLU:HG2	1:A:290:LYS:HE2	1.90	0.53
1:A:577:MET:O	1:A:631:HIS:HA	2.08	0.53
1:C:467:LEU:HD11	1:C:475:PHE:HE2	1.73	0.53
1:D:77:GLU:OE1	1:D:77:GLU:N	2.40	0.53
1:D:337:PHE:CE1	1:D:400:HIS:HB2	2.43	0.53
1:D:1606:LYS:O	1:D:1610:LEU:HG	2.09	0.53
1:B:77:GLU:OE1	1:B:77:GLU:N	2.40	0.53
1:B:757:LEU:O	1:B:760:SER:OG	2.23	0.53
1:B:1707:TYR:HA	1:B:1710:LEU:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1701:GLU:HG3	1:A:1841:PHE:CD2	2.44	0.53
1:C:721:ASP:HB3	1:C:724:LEU:HB2	1.91	0.53
1:C:1097:PHE:CE2	1:C:1166:LEU:HD12	2.44	0.53
1:D:1044:PHE:O	1:D:1048:LEU:HD23	2.08	0.53
1:D:1498:ASN:O	1:D:1501:ARG:NH2	2.43	0.53
1:D:1701:GLU:HG3	1:D:1841:PHE:CD2	2.44	0.53
1:B:299:ASP:O	1:B:323:ARG:NE	2.42	0.53
1:B:1701:GLU:HG3	1:B:1841:PHE:CD2	2.44	0.53
1:B:1722:LYS:O	1:B:1726:VAL:HG23	2.09	0.53
1:B:1903:GLU:HG3	1:B:1966:HIS:HE2	1.74	0.53
1:A:155:GLU:OE1	1:A:1473:ARG:HB2	2.10	0.52
1:A:575:GLN:HB3	1:A:634:LEU:O	2.10	0.52
1:A:1549:GLU:H	1:A:1549:GLU:CD	2.16	0.52
1:A:1581:LEU:O	1:A:1585:ILE:HG13	2.09	0.52
1:A:1749:GLY:HA2	1:A:1775:SER:N	2.24	0.52
1:A:1873:LYS:O	1:A:1897:THR:OG1	2.23	0.52
1:C:155:GLU:OE1	1:C:1473:ARG:HB2	2.09	0.52
1:C:288:GLU:HG2	1:C:290:LYS:HE2	1.90	0.52
1:C:1504:MET:O	1:C:1508:MET:HG3	2.08	0.52
1:C:1786:LEU:HD21	1:C:1820:ILE:HD12	1.91	0.52
1:D:1251:ARG:NH2	1:D:1294:ALA:O	2.42	0.52
1:B:155:GLU:OE1	1:B:1473:ARG:HB2	2.10	0.52
1:B:664:HIS:ND1	1:B:744:LYS:HA	2.24	0.52
1:B:1251:ARG:NH2	1:B:1294:ALA:O	2.42	0.52
1:B:1498:ASN:O	1:B:1501:ARG:NH2	2.43	0.52
1:A:674:LEU:HD22	1:A:690:PRO:HG2	1.91	0.52
1:A:1786:LEU:HD21	1:A:1820:ILE:HD12	1.91	0.52
1:A:1937:SER:HB3	1:A:1977:PHE:HE1	1.74	0.52
1:C:1436:GLY:C	1:C:1440:GLN:HE22	2.15	0.52
1:C:1493:PHE:O	1:C:1497:HIS:HA	2.08	0.52
1:D:155:GLU:OE1	1:D:1473:ARG:HB2	2.10	0.52
1:D:554:TYR:C	1:D:709:VAL:HG23	2.34	0.52
1:B:1595:LEU:O	1:B:1598:THR:OG1	2.26	0.52
1:B:1942:VAL:HG12	1:B:1944:GLN:H	1.74	0.52
1:A:554:TYR:C	1:A:709:VAL:HG23	2.34	0.52
1:A:943:ALA:O	1:A:946:LEU:N	2.42	0.52
1:A:986:ASP:OD1	1:A:986:ASP:N	2.39	0.52
1:A:1533:LEU:HG	1:A:1555:MET:SD	2.48	0.52
1:A:1806:ASN:O	1:A:1821:GLN:NE2	2.40	0.52
1:A:1848:ARG:NE	1:A:1881:ALA:HB2	2.25	0.52
1:C:575:GLN:HB3	1:C:634:LEU:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1942:VAL:HG12	1:C:1944:GLN:H	1.74	0.52
1:D:1474:ILE:O	1:D:1478:ARG:HG3	2.10	0.52
1:D:1786:LEU:HD21	1:D:1820:ILE:HD12	1.91	0.52
1:B:1606:LYS:O	1:B:1610:LEU:HG	2.09	0.52
1:B:1828:TYR:HB3	1:B:1849:THR:HG22	1.91	0.52
1:A:299:ASP:O	1:A:323:ARG:NE	2.42	0.52
1:A:1097:PHE:CE2	1:A:1166:LEU:HD12	2.44	0.52
1:A:1498:ASN:O	1:A:1501:ARG:NH2	2.43	0.52
1:C:554:TYR:C	1:C:709:VAL:HG23	2.34	0.52
1:C:664:HIS:ND1	1:C:744:LYS:HA	2.24	0.52
1:C:674:LEU:HD22	1:C:690:PRO:HG2	1.91	0.52
1:C:1581:LEU:O	1:C:1585:ILE:HG13	2.09	0.52
1:C:1595:LEU:O	1:C:1598:THR:OG1	2.26	0.52
1:D:1722:LYS:O	1:D:1726:VAL:HG23	2.09	0.52
1:D:1729:LYS:HA	1:D:1732:GLU:CD	2.34	0.52
1:B:248:SER:H	1:B:826:ARG:HD3	1.73	0.52
1:B:575:GLN:HB3	1:B:634:LEU:O	2.10	0.52
1:B:1097:PHE:CE2	1:B:1166:LEU:HD12	2.45	0.52
1:B:1393:LEU:HA	1:B:1396:LEU:HD12	1.91	0.52
1:B:1491:GLN:O	1:B:1495:ILE:HG12	2.10	0.52
1:A:283:LEU:HD21	1:A:401:LEU:HD11	1.91	0.52
1:A:721:ASP:HB3	1:A:724:LEU:HB2	1.91	0.52
1:A:1729:LYS:HA	1:A:1732:GLU:CD	2.34	0.52
1:A:1829:PHE:HB2	1:A:1834:LEU:HD12	1.92	0.52
1:C:405:VAL:HG22	1:C:449:PHE:CG	2.44	0.52
1:C:1491:GLN:O	1:C:1495:ILE:HG12	2.10	0.52
1:D:288:GLU:HG2	1:D:290:LYS:HE2	1.90	0.52
1:D:1798:VAL:O	1:D:1818:ALA:N	2.28	0.52
1:D:1942:VAL:HG12	1:D:1944:GLN:H	1.74	0.52
1:B:297:TYR:C	1:B:593:SER:HB3	2.35	0.52
1:B:1392:VAL:O	1:B:1396:LEU:HG	2.10	0.52
1:B:1474:ILE:O	1:B:1478:ARG:HG3	2.10	0.52
1:B:1504:MET:O	1:B:1508:MET:HG3	2.08	0.52
1:A:143:ARG:HA	1:A:146:GLN:HB2	1.91	0.52
1:C:1251:ARG:NH2	1:C:1294:ALA:O	2.42	0.52
1:C:1392:VAL:O	1:C:1396:LEU:HG	2.10	0.52
1:C:1937:SER:HB3	1:C:1977:PHE:HE1	1.74	0.52
1:D:1392:VAL:O	1:D:1396:LEU:HG	2.10	0.52
1:D:1549:GLU:H	1:D:1549:GLU:CD	2.16	0.52
1:D:1648:GLN:OE1	1:D:1654:VAL:HG12	2.09	0.52
1:B:1786:LEU:HD21	1:B:1820:ILE:HD12	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1806:ASN:O	1:B:1821:GLN:NE2	2.40	0.52
1:C:761:LEU:HA	1:C:764:LEU:HD23	1.90	0.52
1:C:1498:ASN:O	1:C:1501:ARG:NH2	2.43	0.52
1:D:1403:VAL:HG12	1:D:1409:ARG:HG3	1.92	0.52
1:B:283:LEU:HD21	1:B:401:LEU:HD11	1.91	0.52
1:B:405:VAL:HG22	1:B:449:PHE:CG	2.43	0.52
1:B:554:TYR:C	1:B:709:VAL:HG23	2.34	0.52
1:B:1676:LYS:HG3	1:B:1677:HIS:N	2.25	0.52
1:A:898:GLU:O	1:A:902:ILE:HG12	2.10	0.52
1:C:299:ASP:O	1:C:323:ARG:NE	2.42	0.52
1:C:496:LEU:HD12	1:C:497:LYS:H	1.75	0.52
1:C:898:GLU:O	1:C:902:ILE:HG12	2.10	0.52
1:C:1901:PRO:HA	1:C:1904:VAL:HB	1.92	0.52
1:D:297:TYR:C	1:D:593:SER:HB3	2.35	0.52
1:D:299:ASP:O	1:D:323:ARG:NE	2.42	0.52
1:D:405:VAL:HG21	1:D:446:PHE:HA	1.92	0.52
1:D:575:GLN:HB3	1:D:634:LEU:O	2.10	0.52
1:D:721:ASP:HB3	1:D:724:LEU:HB2	1.91	0.52
1:D:1058:ASN:OD1	1:D:1109:LEU:N	2.43	0.52
1:D:1491:GLN:O	1:D:1495:ILE:HG12	2.10	0.52
1:D:1676:LYS:HG3	1:D:1677:HIS:N	2.25	0.52
1:D:1937:SER:HB3	1:D:1977:PHE:HE1	1.74	0.52
1:B:466:ARG:NH2	1:B:605:PRO:HB2	2.15	0.52
1:B:1648:GLN:OE1	1:B:1654:VAL:HG12	2.09	0.52
1:B:1729:LYS:HA	1:B:1732:GLU:CD	2.34	0.52
1:A:496:LEU:HD12	1:A:497:LYS:H	1.75	0.52
1:A:1171:ILE:O	1:A:1175:THR:HG23	2.10	0.52
1:A:1393:LEU:HA	1:A:1396:LEU:HD12	1.91	0.52
1:A:1520:PHE:CZ	1:A:1525:LEU:HD11	2.45	0.52
1:C:212:PRO:HB3	1:C:1446:LYS:CE	2.40	0.52
1:C:1474:ILE:O	1:C:1478:ARG:HG3	2.10	0.52
1:C:1669:GLU:HB2	1:C:1672:PHE:CE2	2.44	0.52
1:C:1829:PHE:HB2	1:C:1834:LEU:HD12	1.92	0.52
1:D:496:LEU:HD12	1:D:497:LYS:H	1.75	0.52
1:D:664:HIS:ND1	1:D:744:LYS:HA	2.24	0.52
1:D:1171:ILE:O	1:D:1175:THR:HG23	2.10	0.52
1:D:1615:GLU:O	1:D:1618:GLN:HB2	2.10	0.52
1:D:1669:GLU:HB2	1:D:1672:PHE:CE2	2.44	0.52
1:D:1806:ASN:O	1:D:1821:GLN:NE2	2.40	0.52
1:D:1848:ARG:NE	1:D:1881:ALA:HB2	2.25	0.52
1:B:143:ARG:HA	1:B:146:GLN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:405:VAL:HG21	1:B:446:PHE:HA	1.92	0.52
1:B:496:LEU:HD12	1:B:497:LYS:H	1.75	0.52
1:B:674:LEU:HD22	1:B:690:PRO:HG2	1.91	0.52
1:A:1669:GLU:HB2	1:A:1672:PHE:CE2	2.44	0.52
1:A:1721:LYS:CA	1:B:1738:MET:HG3	2.40	0.52
1:C:1676:LYS:HG3	1:C:1677:HIS:N	2.25	0.52
1:C:1848:ARG:NE	1:C:1881:ALA:HB2	2.25	0.52
1:B:1615:GLU:O	1:B:1618:GLN:HB2	2.10	0.52
1:A:212:PRO:HB3	1:A:1446:LYS:CE	2.40	0.51
1:A:1251:ARG:NH2	1:A:1294:ALA:O	2.43	0.51
1:C:151:ARG:NH2	1:C:1375:GLU:OE2	2.43	0.51
1:C:297:TYR:C	1:C:593:SER:HB3	2.35	0.51
1:C:1171:ILE:O	1:C:1175:THR:HG23	2.10	0.51
1:D:1097:PHE:CE2	1:D:1166:LEU:HD12	2.44	0.51
1:B:151:ARG:NH2	1:B:1375:GLU:OE2	2.43	0.51
1:B:400:HIS:CE1	1:B:402:ALA:HB3	2.46	0.51
1:B:1403:VAL:HG12	1:B:1409:ARG:HG3	1.92	0.51
1:B:1581:LEU:O	1:B:1585:ILE:HG13	2.09	0.51
1:B:1901:PRO:HA	1:B:1904:VAL:HB	1.92	0.51
1:A:405:VAL:HG13	1:A:449:PHE:HB3	1.92	0.51
1:A:1021:TYR:CE2	1:A:1041:ARG:HG3	2.39	0.51
1:A:1058:ASN:OD1	1:A:1109:LEU:N	2.43	0.51
1:C:400:HIS:CE1	1:C:402:ALA:HB3	2.46	0.51
1:C:1676:LYS:O	1:C:1679:THR:OG1	2.22	0.51
1:C:1903:GLU:HG3	1:C:1966:HIS:HE2	1.74	0.51
1:D:143:ARG:HA	1:D:146:GLN:HB2	1.91	0.51
1:D:1903:GLU:HG3	1:D:1966:HIS:HE2	1.75	0.51
1:B:672:PHE:N	1:B:709:VAL:O	2.32	0.51
1:B:721:ASP:OD1	1:B:724:LEU:N	2.28	0.51
1:B:1669:GLU:HB2	1:B:1672:PHE:CE2	2.44	0.51
1:B:1937:SER:HB3	1:B:1977:PHE:HE1	1.74	0.51
1:A:208:GLU:O	1:A:209:ARG:NH2	2.44	0.51
1:A:297:TYR:C	1:A:593:SER:HB3	2.35	0.51
1:A:509:PHE:HA	1:A:521:TYR:CD1	2.45	0.51
1:C:143:ARG:HA	1:C:146:GLN:HB2	1.92	0.51
1:C:1520:PHE:CZ	1:C:1525:LEU:HD11	2.45	0.51
1:D:1393:LEU:HA	1:D:1396:LEU:HD12	1.91	0.51
1:A:664:HIS:ND1	1:A:744:LYS:HA	2.24	0.51
1:C:283:LEU:HD21	1:C:401:LEU:HD11	1.91	0.51
1:C:1058:ASN:OD1	1:C:1109:LEU:N	2.43	0.51
1:D:151:ARG:NH2	1:D:1375:GLU:OE2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:208:GLU:O	1:D:209:ARG:NH2	2.44	0.51
1:D:466:ARG:NH2	1:D:605:PRO:HB2	2.15	0.51
1:D:674:LEU:HD22	1:D:690:PRO:HG2	1.91	0.51
1:B:208:GLU:O	1:B:209:ARG:NH2	2.44	0.51
1:B:1549:GLU:H	1:B:1549:GLU:CD	2.16	0.51
1:A:151:ARG:NH2	1:A:1375:GLU:OE2	2.43	0.51
1:A:306:LYS:O	1:A:310:ARG:NE	2.40	0.51
1:A:1392:VAL:O	1:A:1396:LEU:HG	2.10	0.51
1:A:1491:GLN:O	1:A:1495:ILE:HG12	2.10	0.51
1:A:1606:LYS:O	1:A:1610:LEU:HG	2.09	0.51
1:A:1903:GLU:HG3	1:A:1966:HIS:HE2	1.74	0.51
1:C:1606:LYS:O	1:C:1610:LEU:HG	2.09	0.51
1:D:400:HIS:CE1	1:D:402:ALA:HB3	2.46	0.51
1:D:590:PHE:CD1	1:D:620:LYS:HG2	2.46	0.51
1:D:757:LEU:O	1:D:760:SER:OG	2.23	0.51
1:B:590:PHE:CD1	1:B:620:LYS:HG2	2.46	0.51
1:B:1848:ARG:NE	1:B:1881:ALA:HB2	2.25	0.51
1:A:1403:VAL:HG12	1:A:1409:ARG:HG3	1.92	0.51
1:A:1474:ILE:O	1:A:1478:ARG:HG3	2.10	0.51
1:A:1615:GLU:O	1:A:1618:GLN:HB2	2.10	0.51
1:A:1901:PRO:HA	1:A:1904:VAL:HB	1.92	0.51
1:A:1942:VAL:HG12	1:A:1944:GLN:H	1.74	0.51
1:C:1393:LEU:HA	1:C:1396:LEU:HD12	1.91	0.51
1:D:265:CYS:HB3	1:D:300:LEU:HD11	1.92	0.51
1:D:576:TYR:CE2	1:D:631:HIS:HB3	2.46	0.51
1:D:1021:TYR:CE2	1:D:1041:ARG:HG3	2.39	0.51
1:B:265:CYS:HB3	1:B:300:LEU:HD11	1.92	0.51
1:B:986:ASP:OD1	1:B:986:ASP:N	2.39	0.51
1:B:1021:TYR:CE2	1:B:1041:ARG:HG3	2.39	0.51
1:B:1123:PRO:HA	1:B:1178:ARG:HH21	1.76	0.51
1:A:77:GLU:OE1	1:A:77:GLU:N	2.40	0.51
1:A:1409:ARG:HG2	1:A:1413:LEU:HD13	1.93	0.51
1:C:1615:GLU:O	1:C:1618:GLN:HB2	2.10	0.51
1:C:1771:TYR:CE1	1:C:1888:ARG:HB3	2.46	0.51
1:C:1787:GLU:HG3	1:C:1799:VAL:HG11	1.93	0.51
1:C:1916:LEU:HD11	1:C:1934:LEU:HD13	1.93	0.51
1:D:1707:TYR:O	1:D:1710:LEU:N	2.44	0.51
1:B:405:VAL:HG13	1:B:449:PHE:HB3	1.92	0.51
1:B:576:TYR:CE2	1:B:631:HIS:HB3	2.46	0.51
1:A:805:PHE:CE2	1:A:912:LEU:HA	2.46	0.51
1:A:1707:TYR:O	1:A:1710:LEU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:265:CYS:HB3	1:C:300:LEU:HD11	1.92	0.51
1:C:405:VAL:HG13	1:C:449:PHE:HB3	1.92	0.51
1:C:721:ASP:OD1	1:C:724:LEU:N	2.28	0.51
1:C:1707:TYR:O	1:C:1710:LEU:N	2.44	0.51
1:D:47:LEU:HA	1:D:1104:ARG:HH22	1.76	0.51
1:D:1520:PHE:CZ	1:D:1525:LEU:HD11	2.45	0.51
1:D:1581:LEU:O	1:D:1585:ILE:HG13	2.09	0.51
1:D:1829:PHE:HB2	1:D:1834:LEU:HD12	1.92	0.51
1:D:1901:PRO:HA	1:D:1904:VAL:HB	1.92	0.51
1:B:721:ASP:HB3	1:B:724:LEU:HB2	1.91	0.51
1:B:1058:ASN:OD1	1:B:1109:LEU:N	2.43	0.51
1:B:1520:PHE:CZ	1:B:1525:LEU:HD11	2.45	0.51
1:A:400:HIS:CE1	1:A:402:ALA:HB3	2.46	0.51
1:A:1676:LYS:HG3	1:A:1677:HIS:N	2.25	0.51
1:C:208:GLU:O	1:C:209:ARG:NH2	2.44	0.51
1:C:590:PHE:CD1	1:C:620:LYS:HG2	2.46	0.51
1:C:1409:ARG:HG2	1:C:1413:LEU:HD13	1.93	0.51
1:C:1734:PHE:HE2	1:D:1727:HIS:NE2	2.09	0.51
1:C:1738:MET:HE3	1:D:1721:LYS:N	2.26	0.51
1:D:301:ASN:HB3	1:D:305:MET:CB	2.41	0.51
1:B:805:PHE:CE2	1:B:912:LEU:HA	2.46	0.51
1:B:1171:ILE:O	1:B:1175:THR:HG23	2.10	0.51
1:A:301:ASN:HB3	1:A:305:MET:CB	2.41	0.51
1:A:569:ASN:HA	1:A:607:VAL:O	2.11	0.51
1:A:1617:ALA:HB1	1:A:1694:PHE:CE2	2.46	0.51
1:A:1787:GLU:HG3	1:A:1799:VAL:HG11	1.93	0.51
1:D:805:PHE:CE2	1:D:912:LEU:HA	2.46	0.51
1:D:1123:PRO:HA	1:D:1178:ARG:HH21	1.76	0.51
1:D:1617:ALA:HB1	1:D:1694:PHE:CE2	2.46	0.51
1:B:1401:GLN:HA	1:B:1404:MET:HE1	1.93	0.51
1:A:459:PHE:HB2	1:A:494:ALA:HB3	1.92	0.50
1:A:590:PHE:CD1	1:A:620:LYS:HG2	2.46	0.50
1:A:1058:ASN:O	1:A:1107:HIS:ND1	2.37	0.50
1:A:1598:THR:O	1:A:1602:ASN:ND2	2.36	0.50
1:A:1731:GLN:OE1	1:B:1728:GLY:N	2.44	0.50
1:C:47:LEU:HA	1:C:1104:ARG:HH22	1.76	0.50
1:D:1409:ARG:HG2	1:D:1413:LEU:HD13	1.93	0.50
1:D:1916:LEU:HD11	1:D:1934:LEU:HD13	1.93	0.50
1:D:2014:LEU:O	1:D:2018:LEU:N	2.44	0.50
1:B:459:PHE:HB2	1:B:494:ALA:HB3	1.92	0.50
1:B:1617:ALA:HB1	1:B:1694:PHE:CE2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1916:LEU:HD11	1:B:1934:LEU:HD13	1.93	0.50
1:A:47:LEU:HA	1:A:1104:ARG:HH22	1.76	0.50
1:A:1123:PRO:HA	1:A:1178:ARG:HH21	1.76	0.50
1:C:261:ILE:HD11	1:C:446:PHE:CG	2.46	0.50
1:C:569:ASN:HA	1:C:607:VAL:O	2.11	0.50
1:C:1617:ALA:HB1	1:C:1694:PHE:CE2	2.46	0.50
1:C:2014:LEU:O	1:C:2018:LEU:N	2.44	0.50
1:D:114:GLU:HA	1:D:117:ILE:HG12	1.94	0.50
1:D:509:PHE:HA	1:D:521:TYR:CD1	2.45	0.50
1:D:818:SER:OG	1:D:819:LEU:N	2.44	0.50
1:B:261:ILE:HD11	1:B:446:PHE:CG	2.46	0.50
1:B:338:LEU:N	1:B:399:VAL:O	2.43	0.50
1:B:344:LYS:N	1:B:392:MET:O	2.38	0.50
1:B:620:LYS:C	1:B:621:LEU:HD12	2.37	0.50
1:A:276:PRO:HD2	1:A:345:VAL:HG21	1.94	0.50
1:A:672:PHE:N	1:A:709:VAL:O	2.31	0.50
1:A:818:SER:OG	1:A:819:LEU:N	2.44	0.50
1:A:1771:TYR:CE1	1:A:1888:ARG:HB3	2.46	0.50
1:A:1916:LEU:HD11	1:A:1934:LEU:HD13	1.93	0.50
1:C:285:ASP:HB2	1:C:292:ILE:HG21	1.94	0.50
1:C:459:PHE:HB2	1:C:494:ALA:HB3	1.92	0.50
1:C:576:TYR:CE2	1:C:631:HIS:HB3	2.46	0.50
1:C:1486:TYR:CE1	1:C:1490:ARG:HB2	2.47	0.50
1:C:1873:LYS:O	1:C:1897:THR:OG1	2.23	0.50
1:D:261:ILE:HD11	1:D:446:PHE:CG	2.46	0.50
1:D:569:ASN:HA	1:D:607:VAL:O	2.11	0.50
1:D:898:GLU:O	1:D:902:ILE:HG12	2.10	0.50
1:D:1751:TYR:CE1	1:D:1772:LYS:HD3	2.47	0.50
1:B:509:PHE:HA	1:B:521:TYR:CD1	2.45	0.50
1:B:898:GLU:O	1:B:902:ILE:HG12	2.10	0.50
1:B:1409:ARG:HG2	1:B:1413:LEU:HD13	1.93	0.50
1:A:212:PRO:O	1:A:215:VAL:HG22	2.12	0.50
1:A:1041:ARG:NE	1:A:1116:GLU:OE2	2.45	0.50
1:C:405:VAL:HG21	1:C:446:PHE:HA	1.92	0.50
1:C:509:PHE:HA	1:C:521:TYR:CD1	2.45	0.50
1:D:1041:ARG:NE	1:D:1116:GLU:OE2	2.44	0.50
1:B:911:GLU:H	1:B:911:GLU:CD	2.19	0.50
1:B:1041:ARG:NE	1:B:1116:GLU:OE2	2.44	0.50
1:B:1829:PHE:HB2	1:B:1834:LEU:HD12	1.92	0.50
1:A:285:ASP:HB2	1:A:292:ILE:HG21	1.94	0.50
1:A:405:VAL:HG21	1:A:446:PHE:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1902:VAL:HG22	1:A:1953:PHE:HE1	1.76	0.50
1:C:212:PRO:O	1:C:215:VAL:HG22	2.12	0.50
1:C:818:SER:OG	1:C:819:LEU:N	2.44	0.50
1:D:1594:ASP:HA	1:D:1678:PHE:CE2	2.47	0.50
1:B:301:ASN:HB3	1:B:305:MET:CB	2.41	0.50
1:B:818:SER:OG	1:B:819:LEU:N	2.43	0.50
1:B:1753:ARG:NH1	1:B:1821:GLN:OE1	2.45	0.50
1:B:1771:TYR:CE1	1:B:1888:ARG:HB3	2.46	0.50
1:A:338:LEU:N	1:A:399:VAL:O	2.43	0.50
1:A:576:TYR:CE2	1:A:631:HIS:HB3	2.46	0.50
1:C:817:ARG:HD2	1:C:817:ARG:C	2.37	0.50
1:D:1902:VAL:HG22	1:D:1953:PHE:HE1	1.77	0.50
1:B:47:LEU:HA	1:B:1104:ARG:HH22	1.76	0.50
1:B:114:GLU:HA	1:B:117:ILE:HG12	1.94	0.50
1:B:120:TRP:HB3	1:B:838:TYR:HB3	1.94	0.50
1:B:1751:TYR:CE1	1:B:1772:LYS:HD3	2.47	0.50
1:B:1787:GLU:HG3	1:B:1799:VAL:HG11	1.93	0.50
1:A:114:GLU:HA	1:A:117:ILE:HG12	1.94	0.50
1:A:269:LYS:HB2	1:A:495:GLN:HB2	1.94	0.50
1:C:269:LYS:HB2	1:C:495:GLN:HB2	1.94	0.50
1:C:1041:ARG:NE	1:C:1116:GLU:OE2	2.44	0.50
1:C:1428:GLN:HG2	1:C:1432:PHE:CE2	2.47	0.50
1:D:405:VAL:HG13	1:D:449:PHE:HB3	1.92	0.50
1:D:620:LYS:C	1:D:621:LEU:HD12	2.37	0.50
1:D:817:ARG:HD2	1:D:817:ARG:C	2.37	0.50
1:D:1428:GLN:HG2	1:D:1432:PHE:CE2	2.47	0.50
1:D:1498:ASN:HD21	1:D:1501:ARG:HH12	1.60	0.50
1:B:212:PRO:O	1:B:215:VAL:HG22	2.12	0.50
1:B:1410:GLU:HG2	1:B:1411:SER:N	2.27	0.50
1:B:1594:ASP:HA	1:B:1678:PHE:CE2	2.46	0.50
1:A:1428:GLN:HG2	1:A:1432:PHE:CE2	2.47	0.50
1:A:1594:ASP:HA	1:A:1678:PHE:CE2	2.46	0.50
1:C:1403:VAL:HG12	1:C:1409:ARG:HG3	1.92	0.50
1:C:1410:GLU:HG2	1:C:1411:SER:N	2.27	0.50
1:C:1902:VAL:HG22	1:C:1953:PHE:HE1	1.77	0.50
1:C:1953:PHE:HB3	1:C:1967:HIS:CD2	2.47	0.50
1:D:459:PHE:HB2	1:D:494:ALA:HB3	1.92	0.50
1:D:623:LEU:HD12	1:D:624:PRO:HD2	1.94	0.50
1:D:1771:TYR:CE1	1:D:1888:ARG:HB3	2.46	0.50
1:B:1428:GLN:HG2	1:B:1432:PHE:CE2	2.47	0.50
1:A:152:GLN:HG3	1:A:1386:THR:HG21	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:CYS:HB3	1:A:300:LEU:HD11	1.92	0.50
1:A:1498:ASN:HD21	1:A:1501:ARG:HH12	1.60	0.50
1:A:1589:TYR:CD1	1:A:1595:LEU:HD13	2.47	0.50
1:C:623:LEU:HD12	1:C:624:PRO:HD2	1.94	0.50
1:C:805:PHE:CE2	1:C:912:LEU:HA	2.46	0.50
1:C:911:GLU:H	1:C:911:GLU:CD	2.19	0.50
1:D:120:TRP:HB3	1:D:838:TYR:HB3	1.94	0.50
1:D:276:PRO:HD2	1:D:345:VAL:HG21	1.93	0.50
1:D:338:LEU:HB3	1:D:401:LEU:HD21	1.94	0.50
1:D:1258:LEU:HD21	1:D:1291:CYS:SG	2.52	0.50
1:B:466:ARG:NH1	1:B:615:PHE:HA	2.27	0.50
1:B:2014:LEU:O	1:B:2018:LEU:N	2.44	0.50
1:A:261:ILE:HD11	1:A:446:PHE:CG	2.46	0.49
1:A:1300:LYS:NZ	1:A:1374:MET:HB3	2.27	0.49
1:A:1410:GLU:HG2	1:A:1411:SER:N	2.27	0.49
1:A:1486:TYR:CE1	1:A:1490:ARG:HB2	2.47	0.49
1:A:1953:PHE:HB3	1:A:1967:HIS:CD2	2.47	0.49
1:C:466:ARG:NH1	1:C:615:PHE:HA	2.27	0.49
1:C:1123:PRO:HA	1:C:1178:ARG:HH21	1.76	0.49
1:C:1401:GLN:HA	1:C:1404:MET:HE1	1.93	0.49
1:C:1498:ASN:HD21	1:C:1501:ARG:HH12	1.60	0.49
1:C:1589:TYR:CD1	1:C:1595:LEU:HD13	2.47	0.49
1:C:1825:VAL:HA	1:C:1852:PHE:HB3	1.94	0.49
1:D:1410:GLU:HG2	1:D:1411:SER:N	2.27	0.49
1:B:623:LEU:HD12	1:B:624:PRO:HD2	1.94	0.49
1:B:1707:TYR:O	1:B:1710:LEU:N	2.44	0.49
1:B:1902:VAL:HG22	1:B:1953:PHE:HE1	1.76	0.49
1:C:77:GLU:OE1	1:C:77:GLU:N	2.40	0.49
1:C:301:ASN:HB3	1:C:305:MET:CB	2.41	0.49
1:C:620:LYS:C	1:C:621:LEU:HD12	2.37	0.49
1:C:1806:ASN:O	1:C:1821:GLN:NE2	2.40	0.49
1:D:212:PRO:O	1:D:215:VAL:HG22	2.12	0.49
1:D:1401:GLN:HA	1:D:1404:MET:HE1	1.93	0.49
1:D:1787:GLU:HG3	1:D:1799:VAL:HG11	1.93	0.49
1:B:1589:TYR:CD1	1:B:1595:LEU:HD13	2.47	0.49
1:A:248:SER:N	1:A:826:ARG:HH11	2.11	0.49
1:A:623:LEU:HD12	1:A:624:PRO:HD2	1.94	0.49
1:A:1391:VAL:O	1:A:1395:THR:HG23	2.12	0.49
1:A:1802:ILE:HB	1:A:1821:GLN:HA	1.94	0.49
1:A:1825:VAL:HA	1:A:1852:PHE:HB3	1.94	0.49
1:C:114:GLU:HA	1:C:117:ILE:HG12	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:152:GLN:HG3	1:C:1386:THR:HG21	1.94	0.49
1:C:284:TYR:HA	1:C:292:ILE:HG12	1.94	0.49
1:D:982:ARG:HD2	1:D:986:ASP:OD2	2.12	0.49
1:B:152:GLN:HG3	1:B:1386:THR:HG21	1.94	0.49
1:B:248:SER:N	1:B:826:ARG:HH11	2.11	0.49
1:B:285:ASP:HB2	1:B:292:ILE:HG21	1.94	0.49
1:B:485:LEU:HD22	1:B:488:ARG:HH11	1.77	0.49
1:B:569:ASN:HA	1:B:607:VAL:O	2.11	0.49
1:B:1300:LYS:NZ	1:B:1374:MET:HB3	2.28	0.49
1:A:915:GLN:HA	1:A:918:VAL:HG22	1.93	0.49
1:C:276:PRO:HD2	1:C:345:VAL:HG21	1.93	0.49
1:C:553:VAL:HG11	1:C:635:PHE:HZ	1.78	0.49
1:C:1043:GLU:O	1:C:1047:ILE:HG13	2.13	0.49
1:C:1492:ASN:HA	1:C:1495:ILE:HG12	1.94	0.49
1:C:1773:GLU:HG3	1:C:1774:PRO:HD2	1.94	0.49
1:D:248:SER:N	1:D:826:ARG:HH11	2.11	0.49
1:D:269:LYS:HB2	1:D:495:GLN:HB2	1.94	0.49
1:D:285:ASP:HB2	1:D:292:ILE:HG21	1.94	0.49
1:B:276:PRO:HD2	1:B:345:VAL:HG21	1.93	0.49
1:B:1160:ARG:HD3	1:B:1163:GLU:OE1	2.13	0.49
1:B:1701:GLU:H	1:B:1701:GLU:CD	2.21	0.49
1:A:817:ARG:HD2	1:A:817:ARG:C	2.37	0.49
1:A:1401:GLN:HA	1:A:1404:MET:HE1	1.93	0.49
1:A:1751:TYR:CE1	1:A:1772:LYS:HD3	2.47	0.49
1:A:1770:VAL:O	1:A:1888:ARG:HA	2.13	0.49
1:A:1934:LEU:O	1:A:1938:VAL:HG22	2.13	0.49
1:C:681:PRO:HG3	1:C:697:MET:HE3	1.95	0.49
1:C:746:THR:HG22	1:C:747:VAL:O	2.13	0.49
1:C:1021:TYR:CE2	1:C:1041:ARG:HG3	2.39	0.49
1:C:1798:VAL:O	1:C:1818:ALA:N	2.28	0.49
1:D:152:GLN:HG3	1:D:1386:THR:HG21	1.94	0.49
1:D:681:PRO:HG3	1:D:697:MET:HE3	1.95	0.49
1:D:1589:TYR:CD1	1:D:1595:LEU:HD13	2.47	0.49
1:D:1753:ARG:NH1	1:D:1821:GLN:OE1	2.45	0.49
1:D:1802:ILE:HB	1:D:1821:GLN:HA	1.94	0.49
1:B:982:ARG:HD2	1:B:986:ASP:OD2	2.12	0.49
1:B:1486:TYR:CE1	1:B:1490:ARG:HB2	2.47	0.49
1:B:1498:ASN:HD21	1:B:1501:ARG:HH12	1.60	0.49
1:A:553:VAL:HG11	1:A:635:PHE:HZ	1.78	0.49
1:A:620:LYS:C	1:A:621:LEU:HD12	2.37	0.49
1:A:726:LYS:O	1:A:730:LEU:HD13	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2014:LEU:O	1:A:2018:LEU:N	2.44	0.49
1:C:217:ARG:HH22	1:C:218:ARG:CZ	2.25	0.49
1:C:1751:TYR:CE1	1:C:1772:LYS:HD3	2.47	0.49
1:C:1920:THR:O	1:C:1987:LYS:HD3	2.12	0.49
1:C:1934:LEU:O	1:C:1938:VAL:HG22	2.13	0.49
1:D:911:GLU:O	1:D:915:GLN:HG2	2.13	0.49
1:D:1884:TYR:CG	1:D:1885:ILE:N	2.81	0.49
1:D:1934:LEU:O	1:D:1938:VAL:HG22	2.13	0.49
1:B:915:GLN:HA	1:B:918:VAL:HG22	1.93	0.49
1:A:338:LEU:HB3	1:A:401:LEU:HD21	1.94	0.49
1:A:485:LEU:HD22	1:A:488:ARG:HH11	1.77	0.49
1:A:721:ASP:OD1	1:A:724:LEU:N	2.28	0.49
1:A:746:THR:HG22	1:A:747:VAL:O	2.13	0.49
1:A:908:LEU:HA	1:A:911:GLU:OE2	2.13	0.49
1:A:1701:GLU:H	1:A:1701:GLU:CD	2.21	0.49
1:C:551:LEU:HD23	1:C:621:LEU:HD22	1.95	0.49
1:C:1622:HIS:HB3	1:C:1657:GLU:OE1	2.13	0.49
1:D:466:ARG:NH1	1:D:615:PHE:HA	2.27	0.49
1:D:746:THR:HG22	1:D:747:VAL:O	2.13	0.49
1:D:908:LEU:HA	1:D:911:GLU:OE2	2.13	0.49
1:D:915:GLN:HA	1:D:918:VAL:HG22	1.93	0.49
1:D:986:ASP:OD1	1:D:986:ASP:N	2.39	0.49
1:D:1595:LEU:O	1:D:1598:THR:OG1	2.26	0.49
1:D:1622:HIS:HB3	1:D:1657:GLU:OE1	2.13	0.49
1:B:278:PHE:O	1:B:342:LEU:HA	2.13	0.49
1:B:726:LYS:O	1:B:730:LEU:HD13	2.13	0.49
1:B:1258:LEU:HD21	1:B:1291:CYS:SG	2.53	0.49
1:B:1589:TYR:C	1:B:1596:ARG:HD3	2.38	0.49
1:B:1622:HIS:HB3	1:B:1657:GLU:OE1	2.13	0.49
1:B:1802:ILE:HB	1:B:1821:GLN:HA	1.94	0.49
1:A:284:TYR:HA	1:A:292:ILE:HG12	1.94	0.49
1:A:681:PRO:HG3	1:A:697:MET:HE3	1.95	0.49
1:A:1043:GLU:O	1:A:1047:ILE:HG13	2.13	0.49
1:A:1168:LEU:HA	1:A:1171:ILE:HD13	1.95	0.49
1:C:120:TRP:HB3	1:C:838:TYR:HB3	1.94	0.49
1:C:915:GLN:HA	1:C:918:VAL:HG22	1.93	0.49
1:D:284:TYR:HA	1:D:292:ILE:HG12	1.94	0.49
1:D:485:LEU:HD22	1:D:488:ARG:HH11	1.77	0.49
1:D:1391:VAL:O	1:D:1395:THR:HG23	2.12	0.49
1:D:1773:GLU:HG3	1:D:1774:PRO:HD2	1.94	0.49
1:D:1953:PHE:HB3	1:D:1967:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:338:LEU:HB3	1:B:401:LEU:HD21	1.94	0.49
1:B:551:LEU:HD23	1:B:621:LEU:HD22	1.95	0.49
1:B:770:GLU:H	1:B:770:GLU:CD	2.21	0.49
1:B:911:GLU:O	1:B:915:GLN:HG2	2.13	0.49
1:A:551:LEU:HD23	1:A:621:LEU:HD22	1.95	0.49
1:A:1403:VAL:O	1:A:1406:SER:N	2.44	0.49
1:A:1492:ASN:HA	1:A:1495:ILE:HG12	1.94	0.49
1:A:1920:THR:O	1:A:1987:LYS:HD3	2.12	0.49
1:C:485:LEU:HD22	1:C:488:ARG:HH11	1.77	0.49
1:C:757:LEU:O	1:C:760:SER:OG	2.23	0.49
1:C:769:PRO:HG2	1:C:770:GLU:CD	2.38	0.49
1:C:1770:VAL:O	1:C:1888:ARG:HA	2.13	0.49
1:D:212:PRO:HB3	1:D:1446:LYS:CE	2.40	0.49
1:D:278:PHE:O	1:D:342:LEU:HA	2.13	0.49
1:D:551:LEU:HD23	1:D:621:LEU:HD22	1.95	0.49
1:D:672:PHE:N	1:D:709:VAL:O	2.31	0.49
1:D:1300:LYS:NZ	1:D:1374:MET:HB3	2.28	0.49
1:B:212:PRO:HB3	1:B:1446:LYS:CE	2.40	0.49
1:B:269:LYS:HB2	1:B:495:GLN:HB2	1.94	0.49
1:B:553:VAL:HG11	1:B:635:PHE:HZ	1.78	0.49
1:B:908:LEU:HA	1:B:911:GLU:OE2	2.13	0.49
1:B:1650:ILE:O	1:B:1845:TYR:OH	2.18	0.49
1:A:320:THR:OG1	1:A:595:CYS:O	2.26	0.49
1:A:770:GLU:CD	1:A:770:GLU:H	2.21	0.49
1:A:1292:LEU:HD23	1:A:1292:LEU:HA	1.60	0.49
1:C:320:THR:OG1	1:C:595:CYS:O	2.26	0.49
1:C:1476:THR:C	1:C:1480:HIS:HD1	2.17	0.49
1:C:1825:VAL:HG22	1:C:1852:PHE:CD1	2.48	0.49
1:D:1168:LEU:HA	1:D:1171:ILE:HD13	1.95	0.49
1:D:1486:TYR:CE1	1:D:1490:ARG:HB2	2.47	0.49
1:B:306:LYS:O	1:B:310:ARG:NE	2.40	0.49
1:B:817:ARG:HD2	1:B:817:ARG:C	2.37	0.49
1:B:1403:VAL:O	1:B:1406:SER:N	2.44	0.49
1:B:1798:VAL:O	1:B:1818:ALA:N	2.28	0.49
1:A:977:LEU:HD11	1:D:802:ARG:HH12	1.77	0.48
1:A:1258:LEU:HD21	1:A:1291:CYS:SG	2.52	0.48
1:A:1447:PHE:HE2	1:A:1450:LEU:HB2	1.78	0.48
1:A:1680:GLU:O	1:A:1684:VAL:HG13	2.13	0.48
1:A:1825:VAL:HG22	1:A:1852:PHE:CD1	2.48	0.48
1:C:278:PHE:O	1:C:342:LEU:HA	2.13	0.48
1:C:908:LEU:HA	1:C:911:GLU:OE2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1004:LEU:O	1:C:1007:LEU:N	2.39	0.48
1:C:1160:ARG:HD3	1:C:1163:GLU:OE1	2.13	0.48
1:C:1168:LEU:HA	1:C:1171:ILE:HD13	1.95	0.48
1:C:1258:LEU:HD21	1:C:1291:CYS:SG	2.52	0.48
1:C:1680:GLU:O	1:C:1684:VAL:HG13	2.13	0.48
1:D:217:ARG:HH22	1:D:218:ARG:CZ	2.25	0.48
1:D:1403:VAL:HG13	1:D:1406:SER:HB3	1.95	0.48
1:B:1168:LEU:HA	1:B:1171:ILE:HD13	1.95	0.48
1:A:1589:TYR:C	1:A:1596:ARG:HD3	2.38	0.48
1:A:1773:GLU:HG3	1:A:1774:PRO:HD2	1.94	0.48
1:A:1884:TYR:CG	1:A:1885:ILE:N	2.81	0.48
1:C:338:LEU:HB3	1:C:401:LEU:HD21	1.94	0.48
1:C:345:VAL:HA	1:C:391:ARG:HD3	1.95	0.48
1:C:726:LYS:O	1:C:730:LEU:HD13	2.13	0.48
1:C:982:ARG:HD2	1:C:986:ASP:OD2	2.12	0.48
1:C:1300:LYS:NZ	1:C:1374:MET:HB3	2.28	0.48
1:C:1802:ILE:HB	1:C:1821:GLN:HA	1.95	0.48
1:C:1884:TYR:CG	1:C:1885:ILE:N	2.81	0.48
1:D:769:PRO:HG2	1:D:770:GLU:CD	2.38	0.48
1:D:1680:GLU:O	1:D:1684:VAL:HG13	2.13	0.48
1:D:1701:GLU:H	1:D:1701:GLU:CD	2.21	0.48
1:D:1920:THR:O	1:D:1987:LYS:HD3	2.12	0.48
1:B:746:THR:HG22	1:B:747:VAL:O	2.13	0.48
1:B:1403:VAL:HG13	1:B:1406:SER:HB3	1.95	0.48
1:B:1934:LEU:O	1:B:1938:VAL:HG22	2.13	0.48
1:B:1953:PHE:HB3	1:B:1967:HIS:CD2	2.47	0.48
1:A:120:TRP:HB3	1:A:838:TYR:HB3	1.94	0.48
1:A:217:ARG:HH22	1:A:218:ARG:CZ	2.25	0.48
1:A:1622:HIS:HB3	1:A:1657:GLU:OE1	2.13	0.48
1:C:284:TYR:HB3	1:C:473:PHE:HE1	1.78	0.48
1:C:770:GLU:CD	1:C:770:GLU:H	2.21	0.48
1:D:575:GLN:O	1:D:634:LEU:N	2.46	0.48
1:D:1483:ALA:O	1:D:1487:LEU:HD23	2.13	0.48
1:D:1492:ASN:HA	1:D:1495:ILE:HG12	1.94	0.48
1:B:284:TYR:HA	1:B:292:ILE:HG12	1.94	0.48
1:B:635:PHE:N	1:B:657:THR:O	2.47	0.48
1:B:681:PRO:HG3	1:B:697:MET:HE3	1.95	0.48
1:B:1483:ALA:O	1:B:1487:LEU:HD23	2.13	0.48
1:A:122:ILE:HG23	1:A:837:HIS:CD2	2.49	0.48
1:A:982:ARG:HD2	1:A:986:ASP:OD2	2.12	0.48
1:C:122:ILE:HG23	1:C:837:HIS:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:984:HIS:ND1	1:C:985:LYS:HG3	2.29	0.48
1:C:1391:VAL:O	1:C:1395:THR:HG23	2.12	0.48
1:C:1589:TYR:C	1:C:1596:ARG:HD3	2.38	0.48
1:C:1779:LEU:HB2	1:C:1824:TYR:HB2	1.95	0.48
1:D:1043:GLU:O	1:D:1047:ILE:HG13	2.13	0.48
1:B:217:ARG:HH22	1:B:218:ARG:CZ	2.25	0.48
1:B:300:LEU:HD23	1:B:323:ARG:HD3	1.95	0.48
1:B:1391:VAL:O	1:B:1395:THR:HG23	2.12	0.48
1:B:1825:VAL:HG22	1:B:1852:PHE:CD1	2.48	0.48
1:B:1825:VAL:HA	1:B:1852:PHE:HB3	1.94	0.48
1:B:1920:THR:O	1:B:1987:LYS:HD3	2.13	0.48
1:A:466:ARG:NH1	1:A:615:PHE:HA	2.27	0.48
1:A:911:GLU:O	1:A:915:GLN:HG2	2.13	0.48
1:C:466:ARG:NH2	1:C:605:PRO:HB2	2.15	0.48
1:C:635:PHE:N	1:C:657:THR:O	2.46	0.48
1:C:1585:ILE:HG22	1:C:1589:TYR:HE2	1.79	0.48
1:C:1594:ASP:HA	1:C:1678:PHE:CE2	2.47	0.48
1:C:1753:ARG:NH1	1:C:1821:GLN:OE1	2.45	0.48
1:D:553:VAL:HG11	1:D:635:PHE:HZ	1.78	0.48
1:D:1021:TYR:O	1:D:1024:VAL:HG12	2.14	0.48
1:D:1825:VAL:HG22	1:D:1852:PHE:CD1	2.48	0.48
1:B:575:GLN:O	1:B:634:LEU:N	2.46	0.48
1:B:1773:GLU:HG3	1:B:1774:PRO:HD2	1.94	0.48
1:B:1779:LEU:HB2	1:B:1824:TYR:HB2	1.95	0.48
1:A:575:GLN:O	1:A:634:LEU:N	2.46	0.48
1:A:1437:LEU:HA	1:A:1440:GLN:NE2	2.28	0.48
1:C:248:SER:N	1:C:826:ARG:HH11	2.11	0.48
1:C:579:GLY:HA2	1:C:630:ASN:HB3	1.96	0.48
1:C:1447:PHE:HE2	1:C:1450:LEU:HB2	1.78	0.48
1:D:726:LYS:O	1:D:730:LEU:HD13	2.13	0.48
1:D:1589:TYR:C	1:D:1596:ARG:HD3	2.38	0.48
1:D:1650:ILE:HG12	1:D:1705:GLU:HB3	1.96	0.48
1:B:281:LEU:HB2	1:B:296:PHE:HB3	1.96	0.48
1:B:284:TYR:HB3	1:B:473:PHE:HE1	1.78	0.48
1:B:295:ASN:H	1:B:618:GLU:CD	2.22	0.48
1:B:829:CYS:HB3	1:B:832:LEU:HB2	1.95	0.48
1:B:1043:GLU:O	1:B:1047:ILE:HG13	2.13	0.48
1:B:1492:ASN:HA	1:B:1495:ILE:HG12	1.94	0.48
1:B:1650:ILE:HG12	1:B:1705:GLU:HB3	1.96	0.48
1:A:579:GLY:HA2	1:A:630:ASN:HB3	1.96	0.48
1:A:911:GLU:H	1:A:911:GLU:CD	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1483:ALA:O	1:A:1487:LEU:HD23	2.13	0.48
1:C:1483:ALA:O	1:C:1487:LEU:HD23	2.13	0.48
1:C:1701:GLU:CD	1:C:1701:GLU:H	2.21	0.48
1:D:295:ASN:H	1:D:618:GLU:CD	2.22	0.48
1:B:85:LEU:HD12	1:B:947:LEU:CD2	2.44	0.48
1:B:1008:VAL:HG12	1:B:1009:ASP:N	2.29	0.48
1:A:281:LEU:HB2	1:A:296:PHE:HB3	1.96	0.48
1:A:635:PHE:N	1:A:657:THR:O	2.47	0.48
1:A:769:PRO:HG2	1:A:770:GLU:CD	2.38	0.48
1:A:984:HIS:ND1	1:A:985:LYS:HG3	2.29	0.48
1:A:1160:ARG:HD3	1:A:1163:GLU:OE1	2.13	0.48
1:A:1753:ARG:NH1	1:A:1821:GLN:OE1	2.45	0.48
1:C:85:LEU:HD12	1:C:947:LEU:CD2	2.44	0.48
1:C:911:GLU:O	1:C:915:GLN:HG2	2.13	0.48
1:C:1021:TYR:O	1:C:1024:VAL:HG12	2.14	0.48
1:C:1528:SER:OG	1:C:1529:LEU:N	2.47	0.48
1:C:1934:LEU:HD21	1:C:1985:LEU:HG	1.95	0.48
1:D:1825:VAL:HA	1:D:1852:PHE:HB3	1.94	0.48
1:A:802:ARG:HH12	1:D:977:LEU:HD11	1.78	0.48
1:A:1528:SER:OG	1:A:1529:LEU:N	2.47	0.48
1:C:281:LEU:HB2	1:C:296:PHE:HB3	1.96	0.48
1:C:798:VAL:O	1:C:800:LEU:N	2.47	0.48
1:C:1399:ILE:O	1:C:1402:THR:HB	2.14	0.48
1:D:138:THR:O	1:D:141:THR:OG1	2.28	0.48
1:D:281:LEU:HB2	1:D:296:PHE:HB3	1.96	0.48
1:D:770:GLU:CD	1:D:770:GLU:H	2.21	0.48
1:D:1008:VAL:HG12	1:D:1009:ASP:N	2.29	0.48
1:D:1403:VAL:O	1:D:1406:SER:N	2.44	0.48
1:B:70:GLY:C	1:B:73:ARG:HH11	2.22	0.48
1:B:345:VAL:HA	1:B:391:ARG:HD3	1.95	0.48
1:B:579:GLY:HA2	1:B:630:ASN:HB3	1.96	0.48
1:B:769:PRO:HG2	1:B:770:GLU:CD	2.38	0.48
1:B:1528:SER:OG	1:B:1529:LEU:N	2.47	0.48
1:B:1680:GLU:O	1:B:1684:VAL:HG13	2.13	0.48
1:B:1884:TYR:CG	1:B:1885:ILE:N	2.81	0.48
1:A:278:PHE:O	1:A:342:LEU:HA	2.13	0.48
1:A:300:LEU:HD23	1:A:323:ARG:HD3	1.95	0.48
1:A:398:ALA:HB1	1:A:479:MET:HG3	1.96	0.48
1:C:250:PRO:HD2	1:C:837:HIS:ND1	2.29	0.48
1:C:338:LEU:N	1:C:399:VAL:O	2.43	0.48
1:C:1650:ILE:HG12	1:C:1705:GLU:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:300:LEU:HD23	1:D:323:ARG:HD3	1.95	0.48
1:D:345:VAL:HA	1:D:391:ARG:HD3	1.95	0.48
1:D:829:CYS:HB3	1:D:832:LEU:HB2	1.95	0.48
1:D:1399:ILE:O	1:D:1402:THR:HB	2.14	0.48
1:D:1854:THR:OG1	1:D:1872:ARG:HD2	2.14	0.48
1:B:984:HIS:ND1	1:B:985:LYS:HG3	2.29	0.48
1:B:1021:TYR:O	1:B:1024:VAL:HG12	2.14	0.48
1:A:344:LYS:N	1:A:392:MET:O	2.38	0.47
1:A:1403:VAL:HG13	1:A:1406:SER:HB3	1.95	0.47
1:A:1585:ILE:HG22	1:A:1589:TYR:HE2	1.79	0.47
1:A:1779:LEU:HB2	1:A:1824:TYR:HB2	1.95	0.47
1:C:344:LYS:N	1:C:392:MET:O	2.38	0.47
1:C:1988:ASN:HB3	1:C:2000:HIS:CE1	2.49	0.47
1:D:122:ILE:HG23	1:D:837:HIS:CD2	2.48	0.47
1:D:685:TYR:CG	1:D:686:SER:N	2.82	0.47
1:D:1528:SER:OG	1:D:1529:LEU:N	2.47	0.47
1:B:1568:MET:O	1:B:1578:LEU:HD11	2.14	0.47
1:B:1854:THR:OG1	1:B:1872:ARG:HD2	2.14	0.47
1:A:345:VAL:HA	1:A:391:ARG:HD3	1.95	0.47
1:A:829:CYS:HB3	1:A:832:LEU:HB2	1.95	0.47
1:A:1476:THR:C	1:A:1480:HIS:HD1	2.17	0.47
1:A:1988:ASN:HB3	1:A:2000:HIS:CE1	2.49	0.47
1:C:243:ALA:O	1:C:1046:ARG:NH1	2.48	0.47
1:D:1902:VAL:HG22	1:D:1953:PHE:CE1	2.49	0.47
1:B:122:ILE:HG23	1:B:837:HIS:CD2	2.49	0.47
1:B:1902:VAL:HG22	1:B:1953:PHE:CE1	2.49	0.47
1:A:553:VAL:HA	1:A:711:LEU:HD22	1.96	0.47
1:A:685:TYR:CG	1:A:686:SER:N	2.82	0.47
1:A:1008:VAL:HG12	1:A:1009:ASP:N	2.29	0.47
1:A:1399:ILE:O	1:A:1402:THR:HB	2.14	0.47
1:A:1650:ILE:HG12	1:A:1705:GLU:HB3	1.96	0.47
1:C:312:HIS:CB	1:C:389:ARG:HB2	2.45	0.47
1:C:734:LEU:CD1	1:C:757:LEU:HD22	2.45	0.47
1:C:1437:LEU:HA	1:C:1440:GLN:NE2	2.28	0.47
1:C:1603:MET:C	1:C:1607:HIS:HD1	2.18	0.47
1:C:1902:VAL:HG22	1:C:1953:PHE:CE1	2.49	0.47
1:D:204:PRO:O	1:D:207:LEU:N	2.47	0.47
1:D:579:GLY:HA2	1:D:630:ASN:HB3	1.96	0.47
1:D:635:PHE:N	1:D:657:THR:O	2.46	0.47
1:D:1160:ARG:HD3	1:D:1163:GLU:OE1	2.13	0.47
1:A:671:PRO:HA	1:A:710:GLU:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:798:VAL:O	1:A:800:LEU:N	2.47	0.47
1:A:1568:MET:O	1:A:1578:LEU:HD11	2.15	0.47
1:B:138:THR:O	1:B:141:THR:OG1	2.28	0.47
1:B:1292:LEU:HD23	1:B:1292:LEU:HA	1.60	0.47
1:B:1437:LEU:HA	1:B:1440:GLN:NE2	2.28	0.47
1:B:1585:ILE:HG22	1:B:1589:TYR:HE2	1.79	0.47
1:A:250:PRO:HD2	1:A:837:HIS:ND1	2.29	0.47
1:A:295:ASN:H	1:A:618:GLU:CD	2.22	0.47
1:A:1021:TYR:O	1:A:1024:VAL:HG12	2.14	0.47
1:C:835:TYR:CD1	1:C:839:ALA:HB3	2.50	0.47
1:D:85:LEU:HD12	1:D:947:LEU:CD2	2.44	0.47
1:D:88:GLN:C	1:D:119:ASP:HB3	2.39	0.47
1:D:671:PRO:HA	1:D:710:GLU:HA	1.96	0.47
1:D:984:HIS:ND1	1:D:985:LYS:HG3	2.29	0.47
1:B:251:GLU:HG2	1:B:252:PRO:O	2.14	0.47
1:B:553:VAL:HA	1:B:711:LEU:HD22	1.96	0.47
1:B:798:VAL:O	1:B:800:LEU:N	2.47	0.47
1:B:1627:VAL:HG12	1:B:1683:LEU:HD22	1.97	0.47
1:B:1729:LYS:HA	1:B:1732:GLU:OE2	2.14	0.47
1:A:734:LEU:CD1	1:A:757:LEU:HD22	2.45	0.47
1:A:1854:THR:OG1	1:A:1872:ARG:HD2	2.14	0.47
1:A:1865:GLU:OE2	1:A:1944:GLN:NE2	2.48	0.47
1:C:108:GLN:HG3	1:C:732:HIS:CD2	2.50	0.47
1:C:575:GLN:O	1:C:634:LEU:N	2.46	0.47
1:C:829:CYS:HB3	1:C:832:LEU:HB2	1.95	0.47
1:C:1388:ALA:O	1:C:1392:VAL:HG23	2.15	0.47
1:D:553:VAL:HA	1:D:711:LEU:HD22	1.96	0.47
1:D:1388:ALA:O	1:D:1392:VAL:HG23	2.15	0.47
1:B:84:GLU:O	1:B:124:HIS:N	2.47	0.47
1:B:107:ALA:HB3	1:B:732:HIS:CD2	2.50	0.47
1:B:204:PRO:O	1:B:207:LEU:N	2.47	0.47
1:B:243:ALA:O	1:B:1046:ARG:NH1	2.48	0.47
1:B:685:TYR:CG	1:B:686:SER:N	2.82	0.47
1:B:1388:ALA:O	1:B:1392:VAL:HG23	2.15	0.47
1:B:1934:LEU:HD21	1:B:1985:LEU:HG	1.95	0.47
1:A:85:LEU:HD12	1:A:947:LEU:CD2	2.44	0.47
1:A:88:GLN:C	1:A:119:ASP:HB3	2.39	0.47
1:A:312:HIS:CB	1:A:389:ARG:HB2	2.45	0.47
1:A:336:ILE:O	1:A:400:HIS:HD2	1.98	0.47
1:A:1376:HIS:O	1:A:1379:LEU:HB3	2.15	0.47
1:C:88:GLN:C	1:C:119:ASP:HB3	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:LEU:HD23	1:C:323:ARG:HD3	1.95	0.47
1:C:398:ALA:HB1	1:C:479:MET:HG3	1.96	0.47
1:C:685:TYR:CG	1:C:686:SER:N	2.82	0.47
1:C:1008:VAL:HG12	1:C:1009:ASP:N	2.29	0.47
1:C:1729:LYS:HA	1:C:1732:GLU:OE2	2.14	0.47
1:C:1787:GLU:O	1:C:1791:THR:OG1	2.22	0.47
1:C:1804:ASP:OD1	1:C:1804:ASP:N	2.48	0.47
1:C:1854:THR:OG1	1:C:1872:ARG:HD2	2.14	0.47
1:D:70:GLY:C	1:D:73:ARG:HH11	2.22	0.47
1:D:108:GLN:HG3	1:D:732:HIS:CD2	2.50	0.47
1:D:243:ALA:O	1:D:1046:ARG:NH1	2.48	0.47
1:D:285:ASP:HB3	1:D:288:GLU:HB3	1.97	0.47
1:D:306:LYS:O	1:D:310:ARG:NE	2.40	0.47
1:D:340:ILE:H	1:D:397:THR:HG22	1.80	0.47
1:D:398:ALA:HB1	1:D:479:MET:HG3	1.96	0.47
1:D:798:VAL:O	1:D:800:LEU:N	2.47	0.47
1:D:1437:LEU:HA	1:D:1440:GLN:NE2	2.28	0.47
1:D:1568:MET:O	1:D:1578:LEU:HD11	2.14	0.47
1:D:1585:ILE:HG22	1:D:1589:TYR:HE2	1.79	0.47
1:D:1589:TYR:O	1:D:1592:SER:N	2.47	0.47
1:D:1627:VAL:HG12	1:D:1683:LEU:HD22	1.96	0.47
1:D:1639:HIS:O	1:D:1713:ILE:HG12	2.15	0.47
1:D:1729:LYS:HA	1:D:1732:GLU:OE2	2.14	0.47
1:D:1770:VAL:O	1:D:1888:ARG:HA	2.13	0.47
1:D:1934:LEU:HD13	1:D:1984:ALA:HB3	1.97	0.47
1:D:1934:LEU:HD21	1:D:1985:LEU:HG	1.95	0.47
1:D:1988:ASN:HB3	1:D:2000:HIS:CE1	2.49	0.47
1:B:108:GLN:HG3	1:B:732:HIS:CD2	2.50	0.47
1:B:223:ARG:CZ	1:B:1397:GLU:OE1	2.63	0.47
1:B:1376:HIS:O	1:B:1379:LEU:HB3	2.15	0.47
1:B:1988:ASN:HB3	1:B:2000:HIS:CE1	2.49	0.47
1:A:204:PRO:O	1:A:207:LEU:N	2.47	0.47
1:A:284:TYR:HB3	1:A:473:PHE:HE1	1.78	0.47
1:A:285:ASP:HB3	1:A:288:GLU:HB3	1.97	0.47
1:C:107:ALA:HB3	1:C:732:HIS:CD2	2.50	0.47
1:C:204:PRO:O	1:C:207:LEU:N	2.47	0.47
1:C:251:GLU:HG2	1:C:252:PRO:O	2.15	0.47
1:C:295:ASN:H	1:C:618:GLU:CD	2.22	0.47
1:C:1147:ASP:OD1	1:C:1259:TRP:NE1	2.34	0.47
1:C:1627:VAL:HG12	1:C:1683:LEU:HD22	1.97	0.47
1:C:1639:HIS:CG	1:C:1716:ALA:HB2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:223:ARG:CZ	1:D:1397:GLU:OE1	2.63	0.47
1:D:1779:LEU:HB2	1:D:1824:TYR:HB2	1.95	0.47
1:B:984:HIS:CE1	1:B:985:LYS:HG3	2.50	0.47
1:B:1447:PHE:HE2	1:B:1450:LEU:HB2	1.78	0.47
1:A:70:GLY:C	1:A:73:ARG:HH11	2.22	0.47
1:A:466:ARG:NH2	1:A:605:PRO:HB2	2.15	0.47
1:C:70:GLY:C	1:C:73:ARG:HH11	2.22	0.47
1:C:229:PRO:O	1:C:231:LEU:N	2.48	0.47
1:C:553:VAL:HA	1:C:711:LEU:HD22	1.96	0.47
1:C:1988:ASN:O	1:C:1992:ILE:HG23	2.15	0.47
1:D:250:PRO:HD2	1:D:837:HIS:ND1	2.29	0.47
1:B:250:PRO:HD2	1:B:837:HIS:ND1	2.29	0.47
1:B:1639:HIS:O	1:B:1713:ILE:HG12	2.15	0.47
1:B:1804:ASP:N	1:B:1804:ASP:OD1	2.48	0.47
1:A:108:GLN:HG3	1:A:732:HIS:CD2	2.50	0.47
1:A:229:PRO:O	1:A:231:LEU:N	2.48	0.47
1:A:1388:ALA:O	1:A:1392:VAL:HG23	2.15	0.47
1:A:1639:HIS:CG	1:A:1716:ALA:HB2	2.50	0.47
1:C:155:GLU:OE2	1:C:1473:ARG:HG3	2.15	0.47
1:C:285:ASP:HB3	1:C:288:GLU:HB3	1.97	0.47
1:C:1376:HIS:O	1:C:1379:LEU:HB3	2.15	0.47
1:C:1639:HIS:O	1:C:1713:ILE:HG12	2.15	0.47
1:D:107:ALA:HB3	1:D:732:HIS:CD2	2.50	0.47
1:D:984:HIS:CE1	1:D:985:LYS:HG3	2.50	0.47
1:D:1865:GLU:OE2	1:D:1944:GLN:NE2	2.48	0.47
1:D:1988:ASN:O	1:D:1992:ILE:HG23	2.15	0.47
1:B:336:ILE:O	1:B:400:HIS:HD2	1.98	0.47
1:B:1428:GLN:OE1	1:B:1433:LEU:HD21	2.15	0.47
1:B:1639:HIS:CG	1:B:1716:ALA:HB2	2.50	0.47
1:B:1770:VAL:O	1:B:1888:ARG:HA	2.13	0.47
1:A:155:GLU:OE2	1:A:1473:ARG:HG3	2.15	0.46
1:A:231:LEU:HB2	1:A:1262:LYS:NZ	2.19	0.46
1:A:251:GLU:HG2	1:A:252:PRO:O	2.14	0.46
1:C:657:THR:HG21	1:C:707:PHE:CE2	2.50	0.46
1:C:1428:GLN:OE1	1:C:1433:LEU:HD21	2.15	0.46
1:C:1487:LEU:HD13	1:C:1487:LEU:HA	1.70	0.46
1:D:284:TYR:HB3	1:D:473:PHE:HE1	1.78	0.46
1:D:1626:LEU:HB2	1:D:1657:GLU:OE2	2.15	0.46
1:B:398:ALA:HB1	1:B:479:MET:HG3	1.96	0.46
1:B:1399:ILE:O	1:B:1402:THR:HB	2.14	0.46
1:B:1865:GLU:OE2	1:B:1944:GLN:NE2	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:220:GLU:HA	1:A:223:ARG:NH2	2.30	0.46
1:A:657:THR:HG21	1:A:707:PHE:CE2	2.50	0.46
1:A:994:ASN:ND2	1:A:1040:LEU:HB3	2.30	0.46
1:A:1603:MET:C	1:A:1607:HIS:HD1	2.18	0.46
1:A:1934:LEU:HD13	1:A:1984:ALA:HB3	1.97	0.46
1:A:1934:LEU:HD21	1:A:1985:LEU:HG	1.95	0.46
1:C:1403:VAL:HG13	1:C:1406:SER:HB3	1.95	0.46
1:C:1472:SER:O	1:C:1478:ARG:NH1	2.44	0.46
1:C:1568:MET:O	1:C:1578:LEU:HD11	2.14	0.46
1:C:1854:THR:OG1	1:C:1854:THR:O	2.33	0.46
1:C:1865:GLU:OE2	1:C:1944:GLN:NE2	2.47	0.46
1:D:155:GLU:OE2	1:D:1473:ARG:HG3	2.15	0.46
1:D:251:GLU:HG2	1:D:252:PRO:O	2.14	0.46
1:D:734:LEU:CD1	1:D:757:LEU:HD22	2.45	0.46
1:D:1472:SER:O	1:D:1478:ARG:NH1	2.44	0.46
1:D:1585:ILE:HG22	1:D:1589:TYR:CE2	2.51	0.46
1:D:1639:HIS:CG	1:D:1716:ALA:HB2	2.50	0.46
1:B:88:GLN:C	1:B:119:ASP:HB3	2.39	0.46
1:B:229:PRO:O	1:B:231:LEU:N	2.48	0.46
1:B:734:LEU:CD1	1:B:757:LEU:HD22	2.45	0.46
1:B:749:SER:N	1:B:752:ASN:OD1	2.42	0.46
1:A:243:ALA:O	1:A:1046:ARG:NH1	2.48	0.46
1:A:536:PRO:HB2	1:A:538:ARG:O	2.15	0.46
1:A:658:TRP:CE2	1:A:690:PRO:HD3	2.51	0.46
1:A:984:HIS:CE1	1:A:985:LYS:HG3	2.50	0.46
1:A:1589:TYR:O	1:A:1592:SER:N	2.48	0.46
1:A:1729:LYS:HA	1:A:1732:GLU:OE2	2.14	0.46
1:C:223:ARG:CZ	1:C:1397:GLU:OE1	2.63	0.46
1:C:576:TYR:HA	1:C:633:LEU:HA	1.98	0.46
1:C:994:ASN:ND2	1:C:1040:LEU:HB3	2.30	0.46
1:D:220:GLU:HA	1:D:223:ARG:NH2	2.30	0.46
1:D:338:LEU:N	1:D:399:VAL:O	2.43	0.46
1:B:285:ASP:HB3	1:B:288:GLU:HB3	1.97	0.46
1:B:1626:LEU:HB2	1:B:1657:GLU:OE2	2.15	0.46
1:B:1720:TYR:HA	1:B:1723:LEU:HD12	1.97	0.46
1:A:54:LEU:HD23	1:A:59:VAL:HG21	1.97	0.46
1:C:671:PRO:HA	1:C:710:GLU:HA	1.96	0.46
1:D:229:PRO:O	1:D:231:LEU:N	2.48	0.46
1:D:320:THR:OG1	1:D:595:CYS:O	2.26	0.46
1:B:277:ILE:HG12	1:B:344:LYS:HG2	1.97	0.46
1:B:671:PRO:HA	1:B:710:GLU:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1934:LEU:HD13	1:B:1984:ALA:HB3	1.97	0.46
1:A:223:ARG:CZ	1:A:1397:GLU:OE1	2.63	0.46
1:A:340:ILE:H	1:A:397:THR:HG22	1.80	0.46
1:A:485:LEU:HD22	1:A:488:ARG:NH1	2.31	0.46
1:A:835:TYR:CD1	1:A:839:ALA:HB3	2.50	0.46
1:A:1585:ILE:HG22	1:A:1589:TYR:CE2	2.51	0.46
1:A:1707:TYR:CD1	1:A:1726:VAL:HG13	2.51	0.46
1:C:138:THR:O	1:C:141:THR:OG1	2.28	0.46
1:C:334:PRO:O	1:C:400:HIS:NE2	2.49	0.46
1:C:780:LEU:O	1:C:784:VAL:HG23	2.15	0.46
1:C:1585:ILE:HG22	1:C:1589:TYR:CE2	2.51	0.46
1:D:54:LEU:HD23	1:D:59:VAL:HG21	1.98	0.46
1:D:1376:HIS:O	1:D:1379:LEU:HB3	2.15	0.46
1:D:1428:GLN:OE1	1:D:1433:LEU:HD21	2.15	0.46
1:B:604:THR:HB	1:B:615:PHE:CE1	2.51	0.46
1:B:1585:ILE:HG22	1:B:1589:TYR:CE2	2.51	0.46
1:A:261:ILE:O	1:A:326:ILE:HA	2.16	0.46
1:A:1428:GLN:OE1	1:A:1433:LEU:HD21	2.15	0.46
1:A:1498:ASN:HD21	1:A:1501:ARG:NH1	2.14	0.46
1:A:1804:ASP:N	1:A:1804:ASP:OD1	2.48	0.46
1:A:1902:VAL:HG22	1:A:1953:PHE:CE1	2.49	0.46
1:A:1988:ASN:O	1:A:1992:ILE:HG23	2.15	0.46
1:C:54:LEU:HD23	1:C:59:VAL:HG21	1.98	0.46
1:C:277:ILE:HG12	1:C:344:LYS:HG2	1.97	0.46
1:C:348:GLN:HG2	1:C:383:PHE:HZ	1.81	0.46
1:C:485:LEU:HD22	1:C:488:ARG:NH1	2.31	0.46
1:C:577:MET:HA	1:C:577:MET:HE3	1.98	0.46
1:C:1707:TYR:CD1	1:C:1726:VAL:HG13	2.51	0.46
1:C:1720:TYR:HA	1:C:1723:LEU:HD12	1.97	0.46
1:C:1753:ARG:HH22	1:C:1821:GLN:HG2	1.81	0.46
1:D:312:HIS:CB	1:D:389:ARG:HB2	2.45	0.46
1:D:576:TYR:HA	1:D:633:LEU:HA	1.98	0.46
1:D:577:MET:HA	1:D:577:MET:HE3	1.98	0.46
1:B:155:GLU:OE2	1:B:1473:ARG:HG3	2.15	0.46
1:B:340:ILE:H	1:B:397:THR:HG22	1.80	0.46
1:B:1045:THR:HG21	1:B:1116:GLU:HG3	1.98	0.46
1:B:1437:LEU:O	1:B:1441:ARG:HG3	2.16	0.46
1:A:107:ALA:HB3	1:A:732:HIS:CD2	2.50	0.46
1:A:749:SER:N	1:A:752:ASN:OD1	2.42	0.46
1:A:1004:LEU:O	1:A:1007:LEU:N	2.39	0.46
1:A:1284:LEU:HD23	1:A:1285:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1284:LEU:HD23	1:C:1285:LEU:HD22	1.98	0.46
1:D:336:ILE:O	1:D:400:HIS:HD2	1.98	0.46
1:D:663:GLN:HE21	1:D:744:LYS:HZ2	1.64	0.46
1:D:1437:LEU:O	1:D:1441:ARG:HG3	2.16	0.46
1:D:1753:ARG:HH22	1:D:1821:GLN:HG2	1.81	0.46
1:B:576:TYR:HA	1:B:633:LEU:HA	1.98	0.46
1:B:657:THR:HG21	1:B:707:PHE:CE2	2.50	0.46
1:B:780:LEU:O	1:B:784:VAL:HG23	2.16	0.46
1:B:994:ASN:ND2	1:B:1040:LEU:HB3	2.30	0.46
1:B:1472:SER:O	1:B:1478:ARG:NH1	2.44	0.46
1:B:1476:THR:C	1:B:1480:HIS:HD1	2.17	0.46
1:B:1707:TYR:CD1	1:B:1726:VAL:HG13	2.51	0.46
1:B:1753:ARG:HH22	1:B:1821:GLN:HG2	1.81	0.46
1:A:206:LEU:O	1:A:209:ARG:NH2	2.49	0.46
1:A:235:TYR:OH	1:A:1251:ARG:HG3	2.16	0.46
1:A:1639:HIS:O	1:A:1713:ILE:HG12	2.15	0.46
1:C:220:GLU:HA	1:C:223:ARG:NH2	2.30	0.46
1:C:235:TYR:OH	1:C:1251:ARG:HG3	2.16	0.46
1:C:1525:LEU:C	1:C:1528:SER:HG	2.15	0.46
1:C:1639:HIS:CB	1:C:1716:ALA:HB2	2.46	0.46
1:D:604:THR:HB	1:D:615:PHE:CE1	2.51	0.46
1:D:780:LEU:O	1:D:784:VAL:HG23	2.15	0.46
1:D:994:ASN:ND2	1:D:1040:LEU:HB3	2.30	0.46
1:B:536:PRO:HB2	1:B:538:ARG:O	2.15	0.46
1:B:577:MET:HA	1:B:577:MET:HE3	1.98	0.46
1:B:1622:HIS:HB3	1:B:1657:GLU:CD	2.41	0.46
1:B:1639:HIS:CB	1:B:1716:ALA:HB2	2.46	0.46
1:B:1988:ASN:O	1:B:1992:ILE:HG23	2.15	0.46
1:A:348:GLN:HG2	1:A:383:PHE:HZ	1.81	0.46
1:A:577:MET:HA	1:A:577:MET:HE3	1.98	0.46
1:C:577:MET:HE1	1:C:584:GLN:HB2	1.98	0.46
1:C:900:SER:HA	1:C:903:LEU:HB2	1.98	0.46
1:C:977:LEU:CD1	1:B:802:ARG:HH12	2.29	0.46
1:C:1437:LEU:O	1:C:1441:ARG:HG3	2.16	0.46
1:D:206:LEU:O	1:D:209:ARG:NH2	2.49	0.46
1:D:1622:HIS:HB3	1:D:1657:GLU:CD	2.40	0.46
1:B:1515:GLY:HA3	1:B:1602:ASN:OD1	2.16	0.46
1:A:900:SER:HA	1:A:903:LEU:HB2	1.98	0.46
1:A:1038:LEU:HA	1:A:1038:LEU:HD23	1.65	0.46
1:A:1622:HIS:HB3	1:A:1657:GLU:CD	2.41	0.46
1:C:336:ILE:O	1:C:400:HIS:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1540:MET:HA	1:C:1543:ARG:CZ	2.46	0.46
1:D:536:PRO:HB2	1:D:538:ARG:O	2.15	0.46
1:D:574:VAL:N	1:D:602:ALA:O	2.38	0.46
1:D:909:HIS:CD2	1:D:910:GLU:HG3	2.51	0.46
1:B:54:LEU:HD23	1:B:59:VAL:HG21	1.98	0.46
1:B:334:PRO:O	1:B:400:HIS:NE2	2.49	0.46
1:B:1498:ASN:HD21	1:B:1501:ARG:NH1	2.14	0.46
1:A:909:HIS:CD2	1:A:910:GLU:HG3	2.51	0.45
1:A:1727:HIS:NE2	1:B:1734:PHE:HE2	2.14	0.45
1:C:111:ALA:HA	1:C:114:GLU:OE2	2.17	0.45
1:C:261:ILE:O	1:C:326:ILE:HA	2.16	0.45
1:C:287:ARG:H	1:C:335:ASP:HB3	1.81	0.45
1:C:909:HIS:CD2	1:C:910:GLU:HG3	2.51	0.45
1:C:1515:GLY:HA3	1:C:1602:ASN:OD1	2.16	0.45
1:D:245:GLU:O	1:D:247:CYS:N	2.49	0.45
1:D:261:ILE:O	1:D:326:ILE:HA	2.16	0.45
1:D:658:TRP:CE2	1:D:690:PRO:HD3	2.51	0.45
1:D:900:SER:HA	1:D:903:LEU:HB2	1.98	0.45
1:D:1409:ARG:O	1:D:1413:LEU:HB2	2.16	0.45
1:D:1498:ASN:HD21	1:D:1501:ARG:NH1	2.14	0.45
1:D:1639:HIS:CB	1:D:1716:ALA:HB2	2.46	0.45
1:D:1779:LEU:HD11	1:D:1822:ILE:HG22	1.98	0.45
1:B:1253:LEU:O	1:B:1257:VAL:HG23	2.16	0.45
1:B:1487:LEU:HA	1:B:1487:LEU:HD13	1.70	0.45
1:A:111:ALA:HA	1:A:114:GLU:OE2	2.17	0.45
1:A:138:THR:O	1:A:141:THR:OG1	2.28	0.45
1:A:576:TYR:HA	1:A:633:LEU:HA	1.98	0.45
1:A:1472:SER:O	1:A:1478:ARG:NH1	2.44	0.45
1:A:1627:VAL:HG12	1:A:1683:LEU:HD22	1.97	0.45
1:A:1903:GLU:HG3	1:A:1966:HIS:NE2	2.32	0.45
1:C:554:TYR:CE1	1:C:618:GLU:HA	2.52	0.45
1:C:604:THR:HB	1:C:615:PHE:CE1	2.51	0.45
1:C:658:TRP:CE2	1:C:690:PRO:HD3	2.51	0.45
1:C:984:HIS:CE1	1:C:985:LYS:HG3	2.50	0.45
1:C:1626:LEU:HB2	1:C:1657:GLU:OE2	2.15	0.45
1:C:1903:GLU:HG3	1:C:1966:HIS:NE2	2.31	0.45
1:C:1934:LEU:HD13	1:C:1984:ALA:HB3	1.97	0.45
1:D:554:TYR:CE1	1:D:618:GLU:HA	2.52	0.45
1:D:657:THR:HG21	1:D:707:PHE:CE2	2.50	0.45
1:D:835:TYR:CD1	1:D:839:ALA:HB3	2.50	0.45
1:D:1166:LEU:HD13	1:D:1166:LEU:HA	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1707:TYR:CD1	1:D:1726:VAL:HG13	2.51	0.45
1:D:1903:GLU:HG3	1:D:1966:HIS:NE2	2.32	0.45
1:B:548:ARG:CZ	1:B:548:ARG:HB2	2.46	0.45
1:B:900:SER:HA	1:B:903:LEU:HB2	1.98	0.45
1:B:1409:ARG:O	1:B:1413:LEU:HB2	2.16	0.45
1:B:1472:SER:OG	1:B:1474:ILE:N	2.38	0.45
1:B:1492:ASN:HD22	1:B:1495:ILE:HD11	1.82	0.45
1:A:245:GLU:O	1:A:247:CYS:N	2.49	0.45
1:A:334:PRO:O	1:A:400:HIS:NE2	2.49	0.45
1:A:577:MET:HE1	1:A:584:GLN:HB2	1.98	0.45
1:A:819:LEU:HD13	1:A:831:GLN:OE1	2.16	0.45
1:A:1499:PHE:CD1	1:A:1503:LYS:HE3	2.52	0.45
1:A:1639:HIS:CB	1:A:1716:ALA:HB2	2.46	0.45
1:A:1681:LEU:HA	1:A:1684:VAL:HG22	1.99	0.45
1:C:1253:LEU:O	1:C:1257:VAL:HG23	2.17	0.45
1:C:1492:ASN:HD22	1:C:1495:ILE:HD11	1.82	0.45
1:C:1622:HIS:HB3	1:C:1657:GLU:CD	2.41	0.45
1:C:1681:LEU:HA	1:C:1684:VAL:HG22	1.99	0.45
1:D:111:ALA:HA	1:D:114:GLU:OE2	2.17	0.45
1:D:277:ILE:HG12	1:D:344:LYS:HG2	1.97	0.45
1:D:485:LEU:HD22	1:D:488:ARG:NH1	2.31	0.45
1:D:617:GLU:HG2	1:D:619:PHE:CZ	2.51	0.45
1:D:911:GLU:H	1:D:911:GLU:CD	2.19	0.45
1:D:1154:GLU:OE1	1:D:1157:VAL:N	2.34	0.45
1:D:1492:ASN:HD22	1:D:1495:ILE:HD11	1.82	0.45
1:B:220:GLU:HA	1:B:223:ARG:NH2	2.30	0.45
1:B:235:TYR:OH	1:B:1251:ARG:HG3	2.16	0.45
1:B:348:GLN:HG2	1:B:383:PHE:HZ	1.81	0.45
1:B:460:PHE:HB3	1:B:489:LEU:HD22	1.99	0.45
1:B:693:ALA:HB2	1:B:703:HIS:NE2	2.32	0.45
1:B:1540:MET:HA	1:B:1543:ARG:CZ	2.46	0.45
1:B:1630:TYR:HA	1:B:1633:LEU:HD12	1.98	0.45
1:A:277:ILE:HG12	1:A:344:LYS:HG2	1.97	0.45
1:A:604:THR:HB	1:A:615:PHE:CE1	2.51	0.45
1:A:617:GLU:HG2	1:A:619:PHE:CZ	2.51	0.45
1:A:780:LEU:O	1:A:784:VAL:HG23	2.16	0.45
1:A:1253:LEU:O	1:A:1257:VAL:HG23	2.16	0.45
1:A:1404:MET:HE3	1:A:1404:MET:HB3	1.79	0.45
1:A:1753:ARG:HH22	1:A:1821:GLN:HG2	1.81	0.45
1:C:281:LEU:HG	1:C:298:PHE:CE2	2.52	0.45
1:C:340:ILE:H	1:C:397:THR:HG22	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:819:LEU:HD13	1:C:831:GLN:OE1	2.16	0.45
1:C:1498:ASN:HD21	1:C:1501:ARG:NH1	2.14	0.45
1:D:223:ARG:O	1:D:227:ARG:NH1	2.50	0.45
1:D:235:TYR:OH	1:D:1251:ARG:HG3	2.16	0.45
1:D:577:MET:HE1	1:D:584:GLN:HB2	1.98	0.45
1:D:1045:THR:HG21	1:D:1116:GLU:HG3	1.98	0.45
1:D:1447:PHE:HE2	1:D:1450:LEU:HB2	1.78	0.45
1:D:1950:ALA:HB2	1:D:1974:PHE:CZ	2.52	0.45
1:B:111:ALA:HA	1:B:114:GLU:OE2	2.17	0.45
1:B:128:GLN:HG2	1:B:134:TYR:CE2	2.51	0.45
1:B:244:VAL:HA	1:B:1046:ARG:NH2	2.32	0.45
1:B:281:LEU:HG	1:B:298:PHE:CE2	2.52	0.45
1:B:819:LEU:HD13	1:B:831:GLN:OE1	2.16	0.45
1:B:1681:LEU:O	1:B:1684:VAL:HG22	2.16	0.45
1:B:1779:LEU:HD11	1:B:1822:ILE:HG22	1.98	0.45
1:A:84:GLU:O	1:A:124:HIS:N	2.47	0.45
1:A:223:ARG:O	1:A:227:ARG:NH1	2.50	0.45
1:A:244:VAL:HA	1:A:1046:ARG:NH2	2.32	0.45
1:A:483:SER:H	1:A:486:LEU:HB2	1.82	0.45
1:A:693:ALA:HB2	1:A:703:HIS:NE2	2.32	0.45
1:A:1446:LYS:HA	1:A:1446:LYS:HD3	1.79	0.45
1:A:1540:MET:HA	1:A:1543:ARG:CZ	2.46	0.45
1:C:128:GLN:HG2	1:C:134:TYR:CE2	2.52	0.45
1:C:206:LEU:HD22	1:C:1487:LEU:HD21	1.99	0.45
1:C:536:PRO:HB2	1:C:538:ARG:O	2.15	0.45
1:C:1403:VAL:O	1:C:1406:SER:N	2.44	0.45
1:D:334:PRO:O	1:D:400:HIS:NE2	2.49	0.45
1:D:344:LYS:N	1:D:392:MET:O	2.38	0.45
1:D:1038:LEU:HD23	1:D:1038:LEU:HA	1.65	0.45
1:B:326:ILE:O	1:B:531:GLU:HA	2.17	0.45
1:B:485:LEU:HD22	1:B:488:ARG:NH1	2.31	0.45
1:B:658:TRP:CE2	1:B:690:PRO:HD3	2.51	0.45
1:B:1284:LEU:HD23	1:B:1285:LEU:HD22	1.98	0.45
1:B:1950:ALA:HB2	1:B:1974:PHE:CZ	2.52	0.45
1:A:128:GLN:HG2	1:A:134:TYR:CE2	2.52	0.45
1:A:289:LYS:O	1:A:290:LYS:HG3	2.17	0.45
1:A:326:ILE:O	1:A:531:GLU:HA	2.17	0.45
1:A:548:ARG:CZ	1:A:548:ARG:HB2	2.46	0.45
1:A:1409:ARG:O	1:A:1413:LEU:HB2	2.16	0.45
1:C:245:GLU:OE2	1:C:826:ARG:HB3	2.17	0.45
1:C:460:PHE:HB3	1:C:489:LEU:HD22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:693:ALA:HB2	1:C:703:HIS:NE2	2.32	0.45
1:C:1300:LYS:HZ2	1:C:1374:MET:HB3	1.82	0.45
1:C:1431:LEU:HG	1:C:1435:HIS:HE1	1.82	0.45
1:D:244:VAL:HA	1:D:1046:ARG:NH2	2.32	0.45
1:D:819:LEU:HD13	1:D:831:GLN:OE1	2.16	0.45
1:D:1253:LEU:O	1:D:1257:VAL:HG23	2.16	0.45
1:B:107:ALA:HB3	1:B:732:HIS:NE2	2.32	0.45
1:B:312:HIS:CB	1:B:389:ARG:HB2	2.45	0.45
1:B:320:THR:OG1	1:B:595:CYS:O	2.26	0.45
1:B:577:MET:HE1	1:B:584:GLN:HB2	1.98	0.45
1:B:617:GLU:HG2	1:B:619:PHE:CZ	2.51	0.45
1:B:909:HIS:CD2	1:B:910:GLU:HG3	2.51	0.45
1:B:1499:PHE:CD1	1:B:1503:LYS:HE3	2.52	0.45
1:B:1903:GLU:HG3	1:B:1966:HIS:NE2	2.31	0.45
1:A:281:LEU:HG	1:A:298:PHE:CE2	2.52	0.45
1:A:633:LEU:HB3	1:A:635:PHE:CE1	2.52	0.45
1:A:730:LEU:HD21	1:A:756:GLU:HG3	1.99	0.45
1:A:1515:GLY:HA3	1:A:1602:ASN:OD1	2.16	0.45
1:A:1731:GLN:OE1	1:B:1724:ALA:O	2.34	0.45
1:C:483:SER:H	1:C:486:LEU:HB2	1.82	0.45
1:C:609:HIS:O	1:C:610:ASN:ND2	2.50	0.45
1:C:617:GLU:HG2	1:C:619:PHE:CZ	2.51	0.45
1:C:1160:ARG:O	1:C:1163:GLU:HB2	2.17	0.45
1:C:1630:TYR:HA	1:C:1633:LEU:HD12	1.98	0.45
1:C:1738:MET:HG3	1:D:1721:LYS:CA	2.44	0.45
1:D:348:GLN:HG2	1:D:383:PHE:HZ	1.81	0.45
1:D:548:ARG:CZ	1:D:548:ARG:HB2	2.46	0.45
1:D:693:ALA:HB2	1:D:703:HIS:NE2	2.32	0.45
1:D:1431:LEU:HG	1:D:1435:HIS:HE1	1.82	0.45
1:D:1720:TYR:HA	1:D:1723:LEU:HD12	1.97	0.45
1:D:1804:ASP:N	1:D:1804:ASP:OD1	2.48	0.45
1:B:289:LYS:O	1:B:290:LYS:HG3	2.17	0.45
1:B:835:TYR:CD1	1:B:839:ALA:HB3	2.50	0.45
1:B:1160:ARG:O	1:B:1163:GLU:HB2	2.17	0.45
1:B:1947:LEU:HB2	1:B:2010:LEU:CD1	2.47	0.45
1:A:554:TYR:CE1	1:A:618:GLU:HA	2.52	0.45
1:A:636:THR:HG21	1:A:638:TYR:CZ	2.52	0.45
1:A:1431:LEU:HG	1:A:1435:HIS:HE1	1.82	0.45
1:A:1492:ASN:HD22	1:A:1495:ILE:HD11	1.82	0.45
1:C:245:GLU:O	1:C:247:CYS:N	2.49	0.45
1:C:289:LYS:O	1:C:290:LYS:HG3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:405:VAL:HG22	1:C:449:PHE:CD1	2.52	0.45
1:C:704:LYS:HG2	1:C:706:VAL:HG13	1.98	0.45
1:C:1499:PHE:CD1	1:C:1503:LYS:HE3	2.52	0.45
1:D:206:LEU:HD22	1:D:1487:LEU:HD21	1.99	0.45
1:D:254:ARG:NH1	1:D:256:HIS:HA	2.32	0.45
1:D:281:LEU:HG	1:D:298:PHE:CE2	2.52	0.45
1:D:460:PHE:HB3	1:D:489:LEU:HD22	1.99	0.45
1:D:730:LEU:HD21	1:D:756:GLU:HG3	1.99	0.45
1:B:206:LEU:HD22	1:B:1487:LEU:HD21	1.99	0.45
1:B:633:LEU:HB3	1:B:635:PHE:CE1	2.52	0.45
1:B:636:THR:HG21	1:B:638:TYR:CZ	2.52	0.45
1:A:206:LEU:HD22	1:A:1487:LEU:HD21	1.99	0.45
1:A:1632:ALA:HA	1:A:1635:GLU:O	2.17	0.45
1:C:223:ARG:O	1:C:227:ARG:NH1	2.50	0.45
1:C:306:LYS:O	1:C:310:ARG:NE	2.40	0.45
1:C:326:ILE:O	1:C:531:GLU:HA	2.17	0.45
1:C:633:LEU:HB3	1:C:635:PHE:CE1	2.52	0.45
1:C:636:THR:HG21	1:C:638:TYR:CZ	2.52	0.45
1:C:1499:PHE:O	1:C:1503:LYS:HG2	2.17	0.45
1:C:1510:LEU:HD13	1:C:1558:LEU:HD22	1.99	0.45
1:D:245:GLU:OE2	1:D:826:ARG:HB3	2.17	0.45
1:D:1499:PHE:CD1	1:D:1503:LYS:HE3	2.52	0.45
1:B:206:LEU:O	1:B:209:ARG:NH2	2.49	0.45
1:B:245:GLU:OE2	1:B:826:ARG:HB3	2.17	0.45
1:B:261:ILE:O	1:B:326:ILE:HA	2.16	0.45
1:B:287:ARG:H	1:B:335:ASP:HB3	1.81	0.45
1:B:554:TYR:CE1	1:B:618:GLU:HA	2.52	0.45
1:B:704:LYS:HG2	1:B:706:VAL:HG13	1.98	0.45
1:B:1431:LEU:HG	1:B:1435:HIS:HE1	1.82	0.45
1:B:1499:PHE:O	1:B:1503:LYS:HG2	2.17	0.45
1:B:1787:GLU:O	1:B:1791:THR:OG1	2.22	0.45
1:A:1045:THR:HG21	1:A:1116:GLU:HG3	1.98	0.45
1:A:1720:TYR:HA	1:A:1723:LEU:HD12	1.97	0.45
1:A:1720:TYR:CA	1:A:1723:LEU:HB2	2.41	0.45
1:A:1728:GLY:O	1:A:1731:GLN:HB3	2.17	0.45
1:C:244:VAL:HA	1:C:1046:ARG:NH2	2.32	0.45
1:C:1001:LEU:HD12	1:C:1044:PHE:CZ	2.48	0.45
1:C:1632:ALA:HA	1:C:1635:GLU:O	2.17	0.45
1:D:1476:THR:C	1:D:1480:HIS:HD1	2.17	0.45
1:D:1681:LEU:HA	1:D:1684:VAL:HG22	1.99	0.45
1:B:1632:ALA:HA	1:B:1635:GLU:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1681:LEU:HA	1:B:1684:VAL:HG22	1.99	0.45
1:A:107:ALA:HB3	1:A:732:HIS:NE2	2.32	0.44
1:A:138:THR:HG23	1:A:141:THR:H	1.82	0.44
1:A:460:PHE:HB3	1:A:489:LEU:HD22	1.99	0.44
1:A:609:HIS:O	1:A:610:ASN:ND2	2.50	0.44
1:A:1437:LEU:O	1:A:1441:ARG:HG3	2.16	0.44
1:A:1630:TYR:HA	1:A:1633:LEU:HD12	1.98	0.44
1:A:1947:LEU:HB2	1:A:2010:LEU:CD1	2.47	0.44
1:A:1950:ALA:HB2	1:A:1974:PHE:CE2	2.52	0.44
1:C:84:GLU:O	1:C:124:HIS:N	2.47	0.44
1:C:138:THR:HG23	1:C:141:THR:H	1.82	0.44
1:C:206:LEU:O	1:C:209:ARG:NH2	2.49	0.44
1:C:1045:THR:HG21	1:C:1116:GLU:HG3	1.98	0.44
1:C:1406:SER:OG	1:C:1407:GLU:N	2.51	0.44
1:C:1409:ARG:O	1:C:1413:LEU:HB2	2.16	0.44
1:C:1681:LEU:O	1:C:1684:VAL:HG22	2.16	0.44
1:C:1721:LYS:HA	1:D:1738:MET:HG3	1.99	0.44
1:C:1950:ALA:HB2	1:C:1974:PHE:CZ	2.52	0.44
1:D:289:LYS:O	1:D:290:LYS:HG3	2.17	0.44
1:D:326:ILE:O	1:D:531:GLU:HA	2.17	0.44
1:D:663:GLN:HE21	1:D:744:LYS:NZ	2.15	0.44
1:D:1284:LEU:HD23	1:D:1285:LEU:HD22	1.98	0.44
1:D:1394:ASP:O	1:D:1398:ILE:HG12	2.18	0.44
1:D:1476:THR:HA	1:D:1479:THR:HG22	1.99	0.44
1:D:1540:MET:HA	1:D:1543:ARG:CZ	2.46	0.44
1:D:1594:ASP:O	1:D:1598:THR:HG23	2.17	0.44
1:D:1681:LEU:O	1:D:1684:VAL:HG22	2.16	0.44
1:D:1947:LEU:HB2	1:D:2010:LEU:CD1	2.47	0.44
1:B:254:ARG:NH1	1:B:256:HIS:HA	2.32	0.44
1:B:574:VAL:N	1:B:602:ALA:O	2.38	0.44
1:B:1406:SER:OG	1:B:1407:GLU:N	2.51	0.44
1:B:1855:PRO:HA	1:B:1871:LYS:HA	1.99	0.44
1:B:1950:ALA:HB2	1:B:1974:PHE:CE2	2.52	0.44
1:A:551:LEU:HD12	1:A:552:TYR:H	1.82	0.44
1:A:633:LEU:HB3	1:A:635:PHE:HE1	1.82	0.44
1:A:1499:PHE:O	1:A:1503:LYS:HG2	2.17	0.44
1:A:1525:LEU:C	1:A:1528:SER:HG	2.18	0.44
1:A:1647:PHE:HB2	1:A:1654:VAL:HG21	2.00	0.44
1:A:1681:LEU:O	1:A:1684:VAL:HG22	2.16	0.44
1:A:1779:LEU:HD11	1:A:1822:ILE:HG22	1.98	0.44
1:A:1855:PRO:HA	1:A:1871:LYS:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1855:PRO:HA	1:C:1871:LYS:HA	1.99	0.44
1:C:1947:LEU:HB2	1:C:2010:LEU:CD1	2.47	0.44
1:D:128:GLN:HG2	1:D:134:TYR:CE2	2.52	0.44
1:D:405:VAL:HG22	1:D:449:PHE:CD1	2.52	0.44
1:D:483:SER:H	1:D:486:LEU:HB2	1.82	0.44
1:D:609:HIS:O	1:D:610:ASN:ND2	2.50	0.44
1:D:636:THR:HG21	1:D:638:TYR:CZ	2.52	0.44
1:D:1292:LEU:HD23	1:D:1292:LEU:HA	1.60	0.44
1:D:1406:SER:OG	1:D:1407:GLU:N	2.51	0.44
1:D:1630:TYR:HA	1:D:1633:LEU:HD12	1.98	0.44
1:D:1728:GLY:O	1:D:1731:GLN:HB3	2.18	0.44
1:A:1160:ARG:O	1:A:1163:GLU:HB2	2.17	0.44
1:C:567:VAL:HG11	1:C:654:VAL:HB	1.99	0.44
1:C:1728:GLY:O	1:C:1731:GLN:HB3	2.17	0.44
1:C:1779:LEU:HD11	1:C:1822:ILE:HG22	1.98	0.44
1:D:783:LEU:O	1:D:786:LEU:HB3	2.18	0.44
1:D:1499:PHE:O	1:D:1503:LYS:HG2	2.17	0.44
1:B:245:GLU:O	1:B:247:CYS:N	2.49	0.44
1:B:1394:ASP:O	1:B:1398:ILE:HG12	2.17	0.44
1:B:1476:THR:HA	1:B:1479:THR:HG22	1.99	0.44
1:B:1510:LEU:HD13	1:B:1558:LEU:HD22	1.99	0.44
1:B:1594:ASP:O	1:B:1598:THR:HG23	2.17	0.44
1:A:127:TYR:HA	1:A:129:TYR:CE1	2.53	0.44
1:A:800:LEU:HG	1:A:800:LEU:O	2.17	0.44
1:A:1162:ALA:C	1:A:1164:LEU:N	2.76	0.44
1:A:1179:LEU:HD12	1:A:1245:LEU:HD22	1.99	0.44
1:A:1738:MET:HG3	1:B:1721:LYS:HA	1.98	0.44
1:C:93:ARG:NH1	1:C:257:PHE:HE1	2.16	0.44
1:C:107:ALA:HB3	1:C:732:HIS:NE2	2.32	0.44
1:C:730:LEU:HD21	1:C:756:GLU:HG3	1.99	0.44
1:C:1176:LEU:HA	1:C:1176:LEU:HD12	1.76	0.44
1:C:1292:LEU:HA	1:C:1292:LEU:HD23	1.60	0.44
1:C:1950:ALA:HB2	1:C:1974:PHE:CE2	2.52	0.44
1:D:107:ALA:HB3	1:D:732:HIS:NE2	2.32	0.44
1:D:109:VAL:HG13	1:D:717:VAL:HG21	1.99	0.44
1:D:800:LEU:HG	1:D:800:LEU:O	2.17	0.44
1:D:1142:LEU:HD12	1:D:1146:HIS:HE1	1.83	0.44
1:D:1154:GLU:OE1	1:D:1156:THR:N	2.51	0.44
1:D:1502:VAL:O	1:D:1503:LYS:C	2.60	0.44
1:D:1515:GLY:HA3	1:D:1602:ASN:OD1	2.16	0.44
1:D:1632:ALA:HA	1:D:1635:GLU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1647:PHE:HB2	1:D:1654:VAL:HG21	2.00	0.44
1:B:551:LEU:HD12	1:B:552:TYR:H	1.83	0.44
1:B:607:VAL:HG12	1:B:610:ASN:HB2	2.00	0.44
1:B:632:HIS:NE2	1:B:634:LEU:HB2	2.33	0.44
1:B:664:HIS:CE1	1:B:744:LYS:HA	2.53	0.44
1:B:946:LEU:HD21	1:B:960:PHE:HE1	1.83	0.44
1:A:783:LEU:O	1:A:786:LEU:HB3	2.18	0.44
1:A:1502:VAL:O	1:A:1503:LYS:C	2.60	0.44
1:A:1626:LEU:HB2	1:A:1657:GLU:OE2	2.15	0.44
1:A:1684:VAL:O	1:A:1688:GLU:HG3	2.18	0.44
1:A:1771:TYR:CD1	1:A:1888:ARG:HB3	2.53	0.44
1:C:589:ILE:HG21	1:C:602:ALA:HB2	1.99	0.44
1:C:632:HIS:NE2	1:C:634:LEU:HB2	2.33	0.44
1:C:652:THR:HG23	1:C:654:VAL:HG13	2.00	0.44
1:C:1058:ASN:ND2	1:C:1110:ALA:H	2.16	0.44
1:C:1594:ASP:O	1:C:1598:THR:HG23	2.17	0.44
1:C:1771:TYR:CD1	1:C:1888:ARG:HB3	2.53	0.44
1:C:1975:LYS:HE2	1:C:2018:LEU:HD13	1.99	0.44
1:D:138:THR:HG23	1:D:141:THR:H	1.83	0.44
1:D:567:VAL:HG11	1:D:654:VAL:HB	1.99	0.44
1:D:704:LYS:HG2	1:D:706:VAL:HG13	1.98	0.44
1:D:1707:TYR:CD1	1:D:1710:LEU:HD23	2.53	0.44
1:B:109:VAL:HG13	1:B:717:VAL:HG21	1.99	0.44
1:B:483:SER:H	1:B:486:LEU:HB2	1.82	0.44
1:B:609:HIS:O	1:B:610:ASN:ND2	2.50	0.44
1:B:663:GLN:HE21	1:B:744:LYS:NZ	2.15	0.44
1:B:1142:LEU:HD12	1:B:1146:HIS:HE1	1.83	0.44
1:B:1707:TYR:CD1	1:B:1710:LEU:HD23	2.53	0.44
1:A:93:ARG:NH1	1:A:257:PHE:HE1	2.16	0.44
1:A:567:VAL:HG11	1:A:654:VAL:HB	1.99	0.44
1:A:663:GLN:HE21	1:A:744:LYS:NZ	2.15	0.44
1:A:704:LYS:HG2	1:A:706:VAL:HG13	1.98	0.44
1:A:1154:GLU:OE1	1:A:1157:VAL:N	2.34	0.44
1:C:633:LEU:HB3	1:C:635:PHE:HE1	1.82	0.44
1:C:663:GLN:HE21	1:C:744:LYS:NZ	2.15	0.44
1:C:946:LEU:HD21	1:C:960:PHE:HE1	1.83	0.44
1:D:287:ARG:H	1:D:335:ASP:HB3	1.81	0.44
1:D:664:HIS:CE1	1:D:744:LYS:HA	2.53	0.44
1:B:127:TYR:HA	1:B:129:TYR:CE1	2.53	0.44
1:B:138:THR:HG23	1:B:141:THR:H	1.82	0.44
1:B:301:ASN:O	1:B:306:LYS:HE3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:652:THR:HG23	1:B:654:VAL:HG13	2.00	0.44
1:B:1167:PRO:O	1:B:1170:SER:N	2.51	0.44
1:B:1179:LEU:HD12	1:B:1245:LEU:HD22	1.99	0.44
1:A:254:ARG:NH1	1:A:256:HIS:HA	2.32	0.44
1:A:1594:ASP:O	1:A:1598:THR:HG23	2.17	0.44
1:A:1975:LYS:HE2	1:A:2018:LEU:HD13	1.99	0.44
1:C:251:GLU:OE2	1:C:254:ARG:HD2	2.18	0.44
1:C:607:VAL:HG12	1:C:610:ASN:HB2	2.00	0.44
1:C:1008:VAL:HG12	1:C:1009:ASP:H	1.83	0.44
1:C:1264:THR:HB	1:C:1269:LEU:HD11	2.00	0.44
1:C:1404:MET:HE3	1:C:1404:MET:HB3	1.79	0.44
1:D:251:GLU:OE2	1:D:254:ARG:HD2	2.18	0.44
1:D:589:ILE:HG21	1:D:602:ALA:HB2	1.99	0.44
1:D:946:LEU:HD21	1:D:960:PHE:HE1	1.83	0.44
1:D:1058:ASN:ND2	1:D:1110:ALA:H	2.16	0.44
1:B:223:ARG:O	1:B:227:ARG:NH1	2.50	0.44
1:B:405:VAL:HG22	1:B:449:PHE:CD1	2.52	0.44
1:B:1258:LEU:HD12	1:B:1391:VAL:HG23	2.00	0.44
1:B:1728:GLY:O	1:B:1731:GLN:HB3	2.17	0.44
1:B:1809:ASP:OD1	1:B:1810:LYS:N	2.51	0.44
1:A:245:GLU:OE2	1:A:826:ARG:HB3	2.17	0.44
1:A:287:ARG:H	1:A:335:ASP:HB3	1.81	0.44
1:A:405:VAL:HG22	1:A:449:PHE:CD1	2.52	0.44
1:A:467:LEU:HD21	1:A:475:PHE:CD2	2.52	0.44
1:A:1163:GLU:O	1:A:1166:LEU:HD23	2.18	0.44
1:C:664:HIS:CE1	1:C:744:LYS:HA	2.53	0.44
1:C:1432:PHE:O	1:C:1435:HIS:N	2.51	0.44
1:C:1564:ASP:OD1	1:C:1565:THR:N	2.51	0.44
1:C:1809:ASP:OD1	1:C:1810:LYS:N	2.51	0.44
1:D:301:ASN:O	1:D:306:LYS:HE3	2.18	0.44
1:D:551:LEU:HD12	1:D:552:TYR:H	1.82	0.44
1:D:633:LEU:HB3	1:D:635:PHE:HE1	1.82	0.44
1:D:1432:PHE:O	1:D:1435:HIS:N	2.51	0.44
1:D:1854:THR:OG1	1:D:1854:THR:O	2.33	0.44
1:D:1880:HIS:H	1:D:1889:ILE:CG1	2.28	0.44
1:B:730:LEU:HD21	1:B:756:GLU:HG3	1.99	0.44
1:B:769:PRO:HG2	1:B:770:GLU:OE2	2.18	0.44
1:A:544:HIS:ND1	1:A:774:ALA:HB1	2.33	0.44
1:A:1008:VAL:HG12	1:A:1009:ASP:H	1.83	0.44
1:A:1264:THR:HB	1:A:1269:LEU:HD11	2.00	0.44
1:A:1432:PHE:O	1:A:1435:HIS:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1510:LEU:HD13	1:A:1558:LEU:HD22	1.99	0.44
1:A:1595:LEU:O	1:A:1598:THR:OG1	2.26	0.44
1:C:109:VAL:HG13	1:C:717:VAL:HG21	1.99	0.44
1:C:548:ARG:CZ	1:C:548:ARG:HB2	2.46	0.44
1:C:783:LEU:O	1:C:786:LEU:HB3	2.18	0.44
1:C:1684:VAL:O	1:C:1688:GLU:HG3	2.18	0.44
1:D:217:ARG:HH22	1:D:218:ARG:HB2	1.83	0.44
1:D:1160:ARG:O	1:D:1163:GLU:HB2	2.17	0.44
1:D:1163:GLU:O	1:D:1166:LEU:HD23	2.18	0.44
1:B:1147:ASP:OD1	1:B:1259:TRP:NE1	2.34	0.44
1:B:1539:ASP:OD2	1:B:1542:LEU:HB2	2.18	0.44
1:B:1838:VAL:O	1:B:1843:ARG:NH1	2.48	0.44
1:A:109:VAL:HG13	1:A:717:VAL:HG21	1.99	0.43
1:A:467:LEU:HD11	1:A:475:PHE:CE2	2.53	0.43
1:A:1005:LEU:HD23	1:A:1005:LEU:HA	1.79	0.43
1:A:1042:MET:O	1:A:1045:THR:OG1	2.34	0.43
1:A:1142:LEU:HD12	1:A:1146:HIS:HE1	1.83	0.43
1:A:1258:LEU:HD12	1:A:1391:VAL:HG23	2.00	0.43
1:A:1753:ARG:HG3	1:A:1768:GLU:CD	2.43	0.43
1:A:1950:ALA:HB2	1:A:1974:PHE:CZ	2.52	0.43
1:C:1163:GLU:O	1:C:1166:LEU:HD23	2.18	0.43
1:C:1707:TYR:CD1	1:C:1710:LEU:HD23	2.53	0.43
1:C:1711:ILE:HD12	1:C:1711:ILE:H	1.83	0.43
1:D:127:TYR:HA	1:D:129:TYR:CE1	2.53	0.43
1:D:553:VAL:HG11	1:D:635:PHE:CZ	2.53	0.43
1:D:607:VAL:HG12	1:D:610:ASN:HB2	2.00	0.43
1:D:633:LEU:HB3	1:D:635:PHE:CE1	2.52	0.43
1:D:663:GLN:N	1:D:666:ARG:O	2.51	0.43
1:D:769:PRO:HG2	1:D:770:GLU:OE2	2.18	0.43
1:D:1248:GLU:HA	1:D:1251:ARG:HG2	2.00	0.43
1:D:1838:VAL:O	1:D:1843:ARG:NH1	2.48	0.43
1:D:1855:PRO:HA	1:D:1871:LYS:HA	1.99	0.43
1:D:1950:ALA:HB2	1:D:1974:PHE:CE2	2.52	0.43
1:D:2015:GLN:O	1:D:2019:THR:N	2.44	0.43
1:B:783:LEU:O	1:B:786:LEU:HB3	2.18	0.43
1:B:1432:PHE:O	1:B:1435:HIS:N	2.51	0.43
1:B:1472:SER:OG	1:B:1477:ILE:HD12	2.18	0.43
1:B:1564:ASP:OD1	1:B:1565:THR:N	2.51	0.43
1:B:1603:MET:C	1:B:1607:HIS:HD1	2.18	0.43
1:B:1647:PHE:HB2	1:B:1654:VAL:HG21	2.00	0.43
1:B:1702:ALA:O	1:B:1706:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1880:HIS:H	1:B:1889:ILE:CG1	2.28	0.43
1:A:283:LEU:HD23	1:A:283:LEU:HA	1.84	0.43
1:A:652:THR:HG23	1:A:654:VAL:HG13	2.00	0.43
1:A:743:LEU:HD11	1:A:748:LEU:HD21	2.00	0.43
1:A:1406:SER:OG	1:A:1407:GLU:N	2.51	0.43
1:A:1468:ARG:HE	1:A:1513:LEU:HD13	1.83	0.43
1:A:1476:THR:HA	1:A:1479:THR:HG22	1.99	0.43
1:A:1564:ASP:OD1	1:A:1565:THR:N	2.51	0.43
1:A:1597:LEU:HA	1:A:1600:LEU:HD12	2.00	0.43
1:C:467:LEU:HD21	1:C:475:PHE:CD2	2.52	0.43
1:C:1753:ARG:HG3	1:C:1768:GLU:CD	2.43	0.43
1:D:652:THR:HG23	1:D:654:VAL:HG13	2.00	0.43
1:D:1414:GLY:HA2	1:D:1450:LEU:HD21	2.00	0.43
1:D:1472:SER:OG	1:D:1477:ILE:HD12	2.18	0.43
1:D:1502:VAL:O	1:D:1506:VAL:HG23	2.18	0.43
1:D:1510:LEU:HD13	1:D:1558:LEU:HD22	1.99	0.43
1:D:1597:LEU:HA	1:D:1600:LEU:HD12	2.00	0.43
1:B:567:VAL:HG11	1:B:654:VAL:HB	1.99	0.43
1:B:633:LEU:HB3	1:B:635:PHE:HE1	1.82	0.43
1:B:1264:THR:HB	1:B:1269:LEU:HD11	2.00	0.43
1:B:1502:VAL:O	1:B:1503:LYS:C	2.60	0.43
1:B:1856:PHE:HA	1:B:1862:ALA:O	2.18	0.43
1:A:1154:GLU:OE1	1:A:1156:THR:N	2.51	0.43
1:A:1711:ILE:HD12	1:A:1711:ILE:H	1.83	0.43
1:A:1802:ILE:CG2	1:A:1808:VAL:HG21	2.48	0.43
1:A:1809:ASP:OD1	1:A:1810:LYS:N	2.51	0.43
1:C:127:TYR:HA	1:C:129:TYR:CE1	2.53	0.43
1:C:800:LEU:O	1:C:800:LEU:HG	2.17	0.43
1:C:1167:PRO:O	1:C:1170:SER:N	2.51	0.43
1:C:1539:ASP:OD2	1:C:1542:LEU:HB2	2.18	0.43
1:C:1720:TYR:CA	1:C:1723:LEU:HB2	2.41	0.43
1:C:1738:MET:HA	1:C:1741:SER:OG	2.18	0.43
1:D:93:ARG:NH1	1:D:257:PHE:HE1	2.16	0.43
1:D:632:HIS:NE2	1:D:634:LEU:HB2	2.33	0.43
1:B:293:SER:HB2	1:B:327:PHE:HE1	1.83	0.43
1:B:553:VAL:HG11	1:B:635:PHE:CZ	2.53	0.43
1:B:1154:GLU:OE1	1:B:1156:THR:N	2.51	0.43
1:B:1248:GLU:HA	1:B:1251:ARG:HG2	2.00	0.43
1:B:1565:THR:O	1:B:1568:MET:HB3	2.18	0.43
1:B:1975:LYS:HE2	1:B:2018:LEU:HD13	1.99	0.43
1:A:251:GLU:OE2	1:A:254:ARG:HD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:VAL:HG12	1:A:610:ASN:HB2	2.00	0.43
1:A:1058:ASN:ND2	1:A:1110:ALA:H	2.16	0.43
1:A:1147:ASP:OD1	1:A:1259:TRP:NE1	2.34	0.43
1:A:1404:MET:SD	1:A:1404:MET:N	2.92	0.43
1:A:1414:GLY:HA2	1:A:1450:LEU:HD21	2.00	0.43
1:C:551:LEU:HD12	1:C:552:TYR:H	1.82	0.43
1:C:1476:THR:HA	1:C:1479:THR:HG22	1.99	0.43
1:C:1502:VAL:O	1:C:1506:VAL:HG23	2.18	0.43
1:C:1597:LEU:HA	1:C:1600:LEU:HD12	2.00	0.43
1:D:293:SER:HB2	1:D:327:PHE:HE1	1.84	0.43
1:D:772:LEU:O	1:D:776:SER:N	2.52	0.43
1:D:1008:VAL:HG12	1:D:1009:ASP:H	1.83	0.43
1:D:1162:ALA:C	1:D:1164:LEU:N	2.76	0.43
1:D:1564:ASP:OD1	1:D:1565:THR:N	2.51	0.43
1:D:1684:VAL:O	1:D:1688:GLU:HG3	2.18	0.43
1:D:1975:LYS:HE2	1:D:2018:LEU:HD13	1.99	0.43
1:D:1982:GLU:HB3	1:D:1986:ARG:NH2	2.34	0.43
1:B:1502:VAL:O	1:B:1506:VAL:HG23	2.18	0.43
1:B:1597:LEU:HA	1:B:1600:LEU:HD12	2.00	0.43
1:B:1771:TYR:CD1	1:B:1888:ARG:HB3	2.53	0.43
1:A:217:ARG:HH22	1:A:218:ARG:HB2	1.83	0.43
1:A:589:ILE:HG21	1:A:602:ALA:HB2	1.99	0.43
1:A:664:HIS:CE1	1:A:744:LYS:HA	2.53	0.43
1:A:1707:TYR:CD1	1:A:1710:LEU:HD23	2.53	0.43
1:C:743:LEU:HD11	1:C:748:LEU:HD21	2.00	0.43
1:C:1258:LEU:HD12	1:C:1391:VAL:HG23	2.00	0.43
1:C:1773:GLU:HG2	1:C:1777:THR:HB	2.01	0.43
1:C:1856:PHE:HA	1:C:1862:ALA:O	2.18	0.43
1:C:1885:ILE:HG13	1:C:1886:LYS:HG2	2.01	0.43
1:D:108:GLN:HE21	1:D:732:HIS:CB	2.32	0.43
1:D:544:HIS:ND1	1:D:774:ALA:HB1	2.33	0.43
1:D:749:SER:N	1:D:752:ASN:OD1	2.42	0.43
1:D:1176:LEU:HA	1:D:1176:LEU:HD12	1.76	0.43
1:D:1179:LEU:HD12	1:D:1245:LEU:HD22	1.99	0.43
1:D:1437:LEU:HA	1:D:1437:LEU:HD23	1.81	0.43
1:D:1539:ASP:OD2	1:D:1542:LEU:HB2	2.18	0.43
1:D:1603:MET:C	1:D:1607:HIS:HD1	2.18	0.43
1:D:1720:TYR:CA	1:D:1723:LEU:HB2	2.41	0.43
1:D:1771:TYR:CD1	1:D:1888:ARG:HB3	2.53	0.43
1:D:1856:PHE:HA	1:D:1862:ALA:O	2.18	0.43
1:B:217:ARG:HH22	1:B:218:ARG:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:511:LEU:O	1:B:530:LYS:HA	2.19	0.43
1:B:800:LEU:HG	1:B:800:LEU:O	2.17	0.43
1:B:1281:LEU:O	1:B:1285:LEU:HD23	2.19	0.43
1:B:1409:ARG:CZ	1:B:1447:PHE:HB2	2.48	0.43
1:A:68:GLU:O	1:A:73:ARG:HD2	2.19	0.43
1:A:390:TYR:O	1:A:391:ARG:NH1	2.45	0.43
1:A:632:HIS:NE2	1:A:634:LEU:HB2	2.33	0.43
1:A:769:PRO:HG2	1:A:770:GLU:OE2	2.18	0.43
1:A:1167:PRO:O	1:A:1170:SER:N	2.51	0.43
1:C:254:ARG:NH1	1:C:256:HIS:HA	2.32	0.43
1:C:772:LEU:O	1:C:776:SER:N	2.52	0.43
1:C:802:ARG:HH12	1:B:977:LEU:HD11	1.82	0.43
1:C:1142:LEU:HD12	1:C:1146:HIS:HE1	1.83	0.43
1:C:1154:GLU:OE1	1:C:1156:THR:N	2.51	0.43
1:C:1162:ALA:C	1:C:1164:LEU:N	2.76	0.43
1:C:1281:LEU:O	1:C:1285:LEU:HD23	2.19	0.43
1:C:1647:PHE:HB2	1:C:1654:VAL:HG21	2.00	0.43
1:D:213:GLU:HA	1:D:216:ASP:OD2	2.18	0.43
1:D:467:LEU:HD21	1:D:475:PHE:CD2	2.52	0.43
1:D:511:LEU:O	1:D:530:LYS:HA	2.19	0.43
1:D:1702:ALA:O	1:D:1706:VAL:HG13	2.18	0.43
1:D:1711:ILE:HD12	1:D:1711:ILE:H	1.83	0.43
1:D:1738:MET:HA	1:D:1741:SER:OG	2.18	0.43
1:D:1773:GLU:HG2	1:D:1777:THR:HB	2.01	0.43
1:D:1809:ASP:OD1	1:D:1810:LYS:N	2.51	0.43
1:B:213:GLU:HA	1:B:216:ASP:OD2	2.18	0.43
1:B:544:HIS:ND1	1:B:774:ALA:HB1	2.33	0.43
1:B:1058:ASN:ND2	1:B:1110:ALA:H	2.16	0.43
1:B:1468:ARG:HE	1:B:1513:LEU:HD13	1.83	0.43
1:B:1533:LEU:HA	1:B:1555:MET:HE1	2.00	0.43
1:A:942:MET:HE3	1:A:964:PHE:HE2	1.84	0.43
1:A:1394:ASP:O	1:A:1398:ILE:HG12	2.17	0.43
1:A:1539:ASP:OD2	1:A:1542:LEU:HB2	2.18	0.43
1:A:1738:MET:HA	1:A:1741:SER:OG	2.18	0.43
1:C:769:PRO:HG2	1:C:770:GLU:OE2	2.18	0.43
1:C:954:THR:O	1:C:959:ARG:NE	2.51	0.43
1:C:1702:ALA:O	1:C:1706:VAL:HG13	2.18	0.43
1:C:1802:ILE:CG2	1:C:1808:VAL:HG21	2.48	0.43
1:C:1923:ASP:HA	1:C:1924:PRO:HA	1.88	0.43
1:C:1989:LYS:N	1:C:2000:HIS:CE1	2.86	0.43
1:C:2015:GLN:O	1:C:2019:THR:N	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:954:THR:O	1:D:959:ARG:NE	2.51	0.43
1:D:1264:THR:HB	1:D:1269:LEU:HD11	2.00	0.43
1:D:1409:ARG:CZ	1:D:1447:PHE:HB2	2.48	0.43
1:B:663:GLN:N	1:B:666:ARG:O	2.51	0.43
1:B:1753:ARG:HG3	1:B:1768:GLU:CD	2.43	0.43
1:B:1773:GLU:HG2	1:B:1777:THR:HB	2.01	0.43
1:B:1900:THR:O	1:B:1904:VAL:HG23	2.19	0.43
1:A:1409:ARG:CZ	1:A:1447:PHE:HB2	2.48	0.43
1:A:1472:SER:OG	1:A:1477:ILE:HD12	2.18	0.43
1:A:1502:VAL:O	1:A:1506:VAL:HG23	2.18	0.43
1:A:1930:LEU:HD23	1:A:1991:LEU:HD12	2.00	0.43
1:C:213:GLU:HA	1:C:216:ASP:OD2	2.18	0.43
1:C:326:ILE:HB	1:C:531:GLU:HA	2.01	0.43
1:C:553:VAL:HG11	1:C:635:PHE:CZ	2.53	0.43
1:C:672:PHE:N	1:C:709:VAL:O	2.32	0.43
1:C:1179:LEU:HD12	1:C:1245:LEU:HD22	1.99	0.43
1:C:1404:MET:N	1:C:1404:MET:SD	2.92	0.43
1:C:1707:TYR:CE1	1:C:1726:VAL:HG13	2.54	0.43
1:D:942:MET:HE3	1:D:964:PHE:HE2	1.84	0.43
1:D:1565:THR:O	1:D:1568:MET:HB3	2.18	0.43
1:B:93:ARG:NH1	1:B:257:PHE:HE1	2.16	0.43
1:B:589:ILE:HG21	1:B:602:ALA:HB2	1.99	0.43
1:B:1008:VAL:HG12	1:B:1009:ASP:H	1.83	0.43
1:B:1448:PRO:HD2	1:B:1449:GLU:CD	2.44	0.43
1:B:1738:MET:HA	1:B:1741:SER:OG	2.18	0.43
1:A:293:SER:HB2	1:A:327:PHE:HE1	1.83	0.43
1:A:511:LEU:O	1:A:530:LYS:HA	2.19	0.43
1:A:513:PRO:HG2	1:A:533:LEU:HG	2.01	0.43
1:A:632:HIS:HD2	1:A:658:TRP:HB2	1.84	0.43
1:A:772:LEU:O	1:A:776:SER:N	2.52	0.43
1:A:954:THR:O	1:A:959:ARG:NE	2.51	0.43
1:C:326:ILE:HD12	1:C:510:CYS:SG	2.59	0.43
1:C:1409:ARG:CZ	1:C:1447:PHE:HB2	2.48	0.43
1:C:1589:TYR:O	1:C:1592:SER:N	2.47	0.43
1:C:1597:LEU:CD2	1:C:1601:GLN:HE22	2.32	0.43
1:D:84:GLU:O	1:D:124:HIS:N	2.47	0.43
1:D:1167:PRO:O	1:D:1170:SER:N	2.51	0.43
1:D:1753:ARG:HG3	1:D:1768:GLU:CD	2.43	0.43
1:D:1826:GLU:HG2	1:D:1851:LEU:O	2.19	0.43
1:B:1414:GLY:HA2	1:B:1450:LEU:HD21	2.00	0.43
1:B:1525:LEU:C	1:B:1528:SER:HG	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1802:ILE:CG2	1:B:1808:VAL:HG21	2.49	0.43
1:B:1826:GLU:HG2	1:B:1851:LEU:O	2.19	0.43
1:A:108:GLN:HE21	1:A:732:HIS:CB	2.32	0.43
1:A:259:GLN:O	1:A:328:SER:HA	2.19	0.43
1:A:301:ASN:O	1:A:306:LYS:HE3	2.18	0.43
1:A:326:ILE:HD12	1:A:510:CYS:SG	2.59	0.43
1:A:1300:LYS:HA	1:A:1300:LYS:HD3	1.78	0.43
1:A:1464:LEU:O	1:A:1468:ARG:HG2	2.19	0.43
1:A:1773:GLU:HG2	1:A:1777:THR:HB	2.01	0.43
1:C:259:GLN:O	1:C:328:SER:HA	2.19	0.43
1:C:469:ASP:HA	1:C:472:LEU:HB3	2.01	0.43
1:C:1038:LEU:HA	1:C:1038:LEU:HD23	1.65	0.43
1:C:1254:LEU:O	1:C:1258:LEU:HD23	2.19	0.43
1:C:1474:ILE:HB	1:C:1477:ILE:HG13	2.01	0.43
1:C:1825:VAL:HG11	1:C:1876:LEU:HD12	2.00	0.43
1:D:449:PHE:CE1	1:D:502:PRO:HD3	2.54	0.43
1:D:467:LEU:HD11	1:D:475:PHE:CE2	2.53	0.43
1:D:1258:LEU:HD12	1:D:1391:VAL:HG23	2.00	0.43
1:D:1421:LEU:HD23	1:D:1421:LEU:HA	1.87	0.43
1:D:1597:LEU:CD2	1:D:1601:GLN:HE22	2.32	0.43
1:D:1900:THR:O	1:D:1904:VAL:HG23	2.19	0.43
1:B:251:GLU:OE2	1:B:254:ARG:HD2	2.18	0.43
1:B:327:PHE:CE1	1:B:532:ILE:HG21	2.54	0.43
1:B:743:LEU:HD11	1:B:748:LEU:HD21	2.00	0.43
1:B:1099:LEU:HD12	1:B:1099:LEU:HA	1.76	0.43
1:B:1539:ASP:O	1:B:1543:ARG:HD3	2.19	0.43
1:A:57:GLU:HB2	1:A:957:LYS:HZ2	1.83	0.42
1:A:574:VAL:N	1:A:602:ALA:O	2.38	0.42
1:A:1179:LEU:HD12	1:A:1179:LEU:HA	1.84	0.42
1:A:1254:LEU:O	1:A:1258:LEU:HD23	2.19	0.42
1:A:1684:VAL:HB	1:A:1714:LEU:HD21	2.00	0.42
1:A:1884:TYR:CE2	1:A:1885:ILE:HG12	2.54	0.42
1:A:2001:ARG:O	1:A:2005:ARG:HG2	2.19	0.42
1:C:301:ASN:O	1:C:306:LYS:HE3	2.18	0.42
1:C:449:PHE:CE1	1:C:502:PRO:HD3	2.54	0.42
1:C:544:HIS:ND1	1:C:774:ALA:HB1	2.33	0.42
1:C:988:GLU:OE2	1:C:992:HIS:CE1	2.72	0.42
1:C:1446:LYS:HA	1:C:1446:LYS:HD3	1.79	0.42
1:C:1464:LEU:O	1:C:1468:ARG:HG2	2.19	0.42
1:C:1468:ARG:HE	1:C:1513:LEU:HD13	1.83	0.42
1:C:1472:SER:OG	1:C:1477:ILE:HD12	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1565:THR:O	1:C:1568:MET:HB3	2.18	0.42
1:C:1734:PHE:HE2	1:D:1727:HIS:CE1	2.37	0.42
1:C:1880:HIS:H	1:C:1889:ILE:CG1	2.28	0.42
1:C:1884:TYR:CE2	1:C:1885:ILE:HG12	2.54	0.42
1:C:1930:LEU:HD23	1:C:1991:LEU:HD12	2.00	0.42
1:D:1493:PHE:CD1	1:D:1499:PHE:HE2	2.38	0.42
1:D:1644:CYS:HA	1:D:1647:PHE:CD2	2.54	0.42
1:D:1693:TYR:HA	1:D:1696:MET:HG2	2.01	0.42
1:D:1802:ILE:CG2	1:D:1808:VAL:HG21	2.48	0.42
1:D:1825:VAL:HG11	1:D:1876:LEU:HD12	2.00	0.42
1:D:1930:LEU:HD23	1:D:1991:LEU:HD12	2.00	0.42
1:B:326:ILE:HB	1:B:531:GLU:HA	2.01	0.42
1:B:467:LEU:HD21	1:B:475:PHE:CD2	2.52	0.42
1:B:467:LEU:HD11	1:B:475:PHE:CE2	2.53	0.42
1:B:558:LEU:HD22	1:B:637:PHE:CZ	2.54	0.42
1:B:772:LEU:O	1:B:776:SER:N	2.52	0.42
1:B:1162:ALA:C	1:B:1164:LEU:N	2.76	0.42
1:B:1428:GLN:HG2	1:B:1432:PHE:HE2	1.84	0.42
1:B:1597:LEU:CD2	1:B:1601:GLN:HE22	2.32	0.42
1:B:1660:ILE:HG23	1:B:1664:ILE:HD12	2.01	0.42
1:B:1684:VAL:O	1:B:1688:GLU:HG3	2.18	0.42
1:B:1693:TYR:HA	1:B:1696:MET:HG2	2.01	0.42
1:B:1707:TYR:CE1	1:B:1726:VAL:HG13	2.54	0.42
1:A:946:LEU:HD21	1:A:960:PHE:HE1	1.83	0.42
1:A:1565:THR:O	1:A:1568:MET:HB3	2.18	0.42
1:A:1856:PHE:HA	1:A:1862:ALA:O	2.18	0.42
1:A:1885:ILE:HG13	1:A:1886:LYS:HG2	2.01	0.42
1:C:327:PHE:CE1	1:C:532:ILE:HG21	2.54	0.42
1:C:1005:LEU:HD23	1:C:1005:LEU:HA	1.79	0.42
1:C:1410:GLU:OE1	1:C:1410:GLU:N	2.51	0.42
1:C:1448:PRO:HD2	1:C:1449:GLU:CD	2.44	0.42
1:C:1605:GLY:O	1:C:1606:LYS:C	2.62	0.42
1:D:743:LEU:HD11	1:D:748:LEU:HD21	2.00	0.42
1:D:1404:MET:HE3	1:D:1404:MET:HB3	1.79	0.42
1:D:1707:TYR:CE1	1:D:1726:VAL:HG13	2.54	0.42
1:B:57:GLU:HB2	1:B:957:LYS:HZ2	1.84	0.42
1:B:513:PRO:HG2	1:B:533:LEU:HG	2.01	0.42
1:B:793:ILE:O	1:B:796:GLN:HG2	2.20	0.42
1:B:1163:GLU:O	1:B:1166:LEU:HD23	2.18	0.42
1:B:1464:LEU:O	1:B:1468:ARG:HG2	2.19	0.42
1:B:1589:TYR:O	1:B:1592:SER:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1630:TYR:O	1:B:1633:LEU:HB2	2.20	0.42
1:A:327:PHE:CE1	1:A:532:ILE:HG21	2.54	0.42
1:A:1248:GLU:HA	1:A:1251:ARG:HG2	2.00	0.42
1:A:1693:TYR:HA	1:A:1696:MET:HG2	2.01	0.42
1:A:1826:GLU:HG2	1:A:1851:LEU:O	2.19	0.42
1:C:511:LEU:O	1:C:530:LYS:HA	2.19	0.42
1:C:1533:LEU:HA	1:C:1555:MET:HE1	2.00	0.42
1:C:1727:HIS:NE2	1:D:1734:PHE:HE2	2.17	0.42
1:C:1826:GLU:HG2	1:C:1851:LEU:O	2.19	0.42
1:D:1464:LEU:O	1:D:1468:ARG:HG2	2.19	0.42
1:D:1503:LYS:NZ	1:D:1550:GLN:HB3	2.34	0.42
1:D:1884:TYR:CE2	1:D:1885:ILE:HG12	2.54	0.42
1:D:2001:ARG:O	1:D:2005:ARG:HG2	2.19	0.42
1:B:326:ILE:HD12	1:B:510:CYS:SG	2.59	0.42
1:B:469:ASP:HA	1:B:472:LEU:HB3	2.01	0.42
1:B:591:GLY:HA3	1:B:596:SER:O	2.19	0.42
1:B:788:ILE:HG22	1:B:789:ARG:HG3	2.02	0.42
1:B:1605:GLY:O	1:B:1606:LYS:C	2.62	0.42
1:B:1885:ILE:HG13	1:B:1886:LYS:HG2	2.01	0.42
1:A:449:PHE:CE1	1:A:502:PRO:HD3	2.54	0.42
1:A:469:ASP:HA	1:A:472:LEU:HB3	2.01	0.42
1:A:1131:LEU:HD13	1:A:1131:LEU:HA	1.90	0.42
1:A:1493:PHE:CD1	1:A:1499:PHE:HE2	2.38	0.42
1:A:1597:LEU:CD2	1:A:1601:GLN:HE22	2.32	0.42
1:A:1644:CYS:HA	1:A:1647:PHE:CD2	2.54	0.42
1:A:1707:TYR:CE1	1:A:1726:VAL:HG13	2.54	0.42
1:C:793:ILE:O	1:C:796:GLN:HG2	2.20	0.42
1:C:1097:PHE:CE1	1:C:1268:LEU:HD11	2.52	0.42
1:C:1414:GLY:HA2	1:C:1450:LEU:HD21	2.00	0.42
1:C:1539:ASP:O	1:C:1543:ARG:HD3	2.19	0.42
1:D:57:GLU:HB2	1:D:957:LYS:HZ2	1.85	0.42
1:D:988:GLU:OE2	1:D:992:HIS:CE1	2.72	0.42
1:D:1254:LEU:O	1:D:1258:LEU:HD23	2.19	0.42
1:D:1446:LYS:HA	1:D:1446:LYS:HD3	1.79	0.42
1:D:1448:PRO:HD2	1:D:1449:GLU:CD	2.44	0.42
1:D:1468:ARG:HE	1:D:1513:LEU:HD13	1.83	0.42
1:D:1533:LEU:HA	1:D:1555:MET:HE1	2.00	0.42
1:B:108:GLN:HE21	1:B:732:HIS:CB	2.32	0.42
1:B:259:GLN:O	1:B:328:SER:HA	2.19	0.42
1:B:679:ASP:OD2	1:B:697:MET:HG3	2.20	0.42
1:B:1097:PHE:CE1	1:B:1268:LEU:HD11	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1711:ILE:HD12	1:B:1711:ILE:H	1.83	0.42
1:A:133:ALA:HB2	1:A:244:VAL:HG11	2.02	0.42
1:A:213:GLU:HA	1:A:216:ASP:OD2	2.18	0.42
1:A:591:GLY:HA3	1:A:596:SER:O	2.19	0.42
1:A:660:PRO:HG2	1:A:689:THR:HG22	2.02	0.42
1:A:814:LEU:HD13	1:A:814:LEU:HA	1.92	0.42
1:A:988:GLU:OE2	1:A:992:HIS:CE1	2.72	0.42
1:A:1451:LEU:HD22	1:A:1459:CYS:HA	2.01	0.42
1:A:1474:ILE:HB	1:A:1477:ILE:HG13	2.01	0.42
1:A:1918:PHE:O	1:A:1922:GLN:HG3	2.20	0.42
1:C:679:ASP:OD2	1:C:697:MET:HG3	2.20	0.42
1:C:942:MET:HE3	1:C:964:PHE:CE2	2.54	0.42
1:C:1248:GLU:HA	1:C:1251:ARG:HG2	2.00	0.42
1:C:1590:GLN:N	1:C:1596:ARG:HD3	2.35	0.42
1:C:1660:ILE:HG23	1:C:1664:ILE:HD12	2.01	0.42
1:C:1982:GLU:HB3	1:C:1986:ARG:NH2	2.34	0.42
1:D:68:GLU:O	1:D:73:ARG:HD2	2.19	0.42
1:D:133:ALA:HB2	1:D:244:VAL:HG11	2.02	0.42
1:D:326:ILE:HD12	1:D:510:CYS:SG	2.59	0.42
1:D:1684:VAL:HB	1:D:1714:LEU:HD21	2.00	0.42
1:B:68:GLU:O	1:B:73:ARG:HD2	2.19	0.42
1:B:1404:MET:SD	1:B:1404:MET:N	2.92	0.42
1:B:1930:LEU:HD23	1:B:1991:LEU:HD12	2.00	0.42
1:A:56:PHE:CD2	1:A:1014:PHE:HE2	2.37	0.42
1:A:307:GLY:HA2	1:A:310:ARG:NE	2.35	0.42
1:A:1179:LEU:HA	1:A:1245:LEU:HD13	2.02	0.42
1:A:1448:PRO:HD2	1:A:1449:GLU:CD	2.44	0.42
1:A:1528:SER:HG	1:A:1529:LEU:H	1.68	0.42
1:C:133:ALA:HB2	1:C:244:VAL:HG11	2.02	0.42
1:C:293:SER:HB2	1:C:327:PHE:HE1	1.84	0.42
1:C:558:LEU:HD22	1:C:637:PHE:CZ	2.54	0.42
1:C:814:LEU:CD1	1:C:817:ARG:HH21	2.28	0.42
1:D:259:GLN:O	1:D:328:SER:HA	2.19	0.42
1:D:327:PHE:CE1	1:D:532:ILE:HG21	2.54	0.42
1:D:513:PRO:HG2	1:D:533:LEU:HG	2.01	0.42
1:D:679:ASP:OD2	1:D:697:MET:HG3	2.19	0.42
1:D:734:LEU:HD13	1:D:757:LEU:HD22	2.02	0.42
1:D:1563:THR:O	1:D:1566:VAL:HB	2.19	0.42
1:B:761:LEU:HA	1:B:761:LEU:HD23	1.83	0.42
1:B:942:MET:HE3	1:B:964:PHE:CE2	2.54	0.42
1:B:1261:LEU:HD23	1:B:1261:LEU:HA	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1854:THR:OG1	1:B:1854:THR:O	2.33	0.42
1:A:942:MET:HE3	1:A:964:PHE:CE2	2.54	0.42
1:A:1503:LYS:NZ	1:A:1550:GLN:HB3	2.34	0.42
1:A:1650:ILE:HD11	1:A:1706:VAL:HA	2.02	0.42
1:A:1660:ILE:HG23	1:A:1664:ILE:HD12	2.01	0.42
1:A:1702:ALA:O	1:A:1706:VAL:HG13	2.18	0.42
1:A:1982:GLU:HB3	1:A:1986:ARG:NH2	2.34	0.42
1:A:1989:LYS:N	1:A:2000:HIS:CE1	2.87	0.42
1:C:68:GLU:O	1:C:73:ARG:HD2	2.19	0.42
1:C:788:ILE:HG22	1:C:789:ARG:HG3	2.02	0.42
1:C:1451:LEU:HD22	1:C:1459:CYS:HA	2.01	0.42
1:C:1486:TYR:HE1	1:C:1547:PHE:HZ	1.68	0.42
1:C:1549:GLU:OE1	1:C:1549:GLU:N	2.31	0.42
1:C:1751:TYR:HE1	1:C:1882:PHE:HD2	1.68	0.42
1:C:1900:THR:O	1:C:1904:VAL:HG23	2.19	0.42
1:C:1918:PHE:O	1:C:1922:GLN:HG3	2.20	0.42
1:D:81:ASP:OD1	1:D:81:ASP:N	2.52	0.42
1:D:283:LEU:HA	1:D:283:LEU:HD23	1.84	0.42
1:D:1147:ASP:OD1	1:D:1259:TRP:NE1	2.34	0.42
1:D:1281:LEU:O	1:D:1285:LEU:HD23	2.19	0.42
1:D:1586:ALA:HB1	1:D:1596:ARG:HE	1.85	0.42
1:D:1607:HIS:O	1:D:1610:LEU:HB2	2.20	0.42
1:D:1885:ILE:HG13	1:D:1886:LYS:HG2	2.01	0.42
1:B:549:ASN:OD1	1:B:623:LEU:N	2.53	0.42
1:B:734:LEU:HD13	1:B:757:LEU:HD22	2.02	0.42
1:B:942:MET:HE3	1:B:964:PHE:HE2	1.84	0.42
1:B:1002:SER:O	1:B:1005:LEU:HB2	2.20	0.42
1:B:1474:ILE:HB	1:B:1477:ILE:HG13	2.01	0.42
1:B:1590:GLN:N	1:B:1596:ARG:HD3	2.35	0.42
1:B:1639:HIS:HB2	1:B:1713:ILE:HA	2.02	0.42
1:B:1825:VAL:HG11	1:B:1876:LEU:HD12	2.00	0.42
1:B:2001:ARG:O	1:B:2005:ARG:HG2	2.19	0.42
1:A:86:LEU:HD23	1:A:124:HIS:CB	2.50	0.42
1:A:326:ILE:HB	1:A:531:GLU:HA	2.01	0.42
1:A:553:VAL:HG11	1:A:635:PHE:CZ	2.53	0.42
1:A:1002:SER:O	1:A:1005:LEU:HB2	2.20	0.42
1:A:1254:LEU:HD13	1:A:1254:LEU:HA	1.82	0.42
1:A:1281:LEU:O	1:A:1285:LEU:HD23	2.19	0.42
1:A:1563:THR:O	1:A:1566:VAL:HB	2.20	0.42
1:A:1590:GLN:HA	1:A:1596:ARG:HD3	2.02	0.42
1:C:513:PRO:HG2	1:C:533:LEU:HG	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:663:GLN:N	1:C:666:ARG:O	2.51	0.42
1:C:942:MET:HE3	1:C:964:PHE:HE2	1.84	0.42
1:C:1394:ASP:O	1:C:1398:ILE:HG12	2.18	0.42
1:C:1428:GLN:HG2	1:C:1432:PHE:HE2	1.84	0.42
1:C:1481:ALA:O	1:C:1484:SER:OG	2.36	0.42
1:C:1492:ASN:HD21	1:C:1501:ARG:HH21	1.68	0.42
1:C:2001:ARG:O	1:C:2005:ARG:HG2	2.19	0.42
1:D:86:LEU:HD23	1:D:124:HIS:CB	2.50	0.42
1:D:469:ASP:HA	1:D:472:LEU:HB3	2.01	0.42
1:D:660:PRO:HG2	1:D:689:THR:HG22	2.02	0.42
1:D:793:ILE:O	1:D:796:GLN:HG2	2.20	0.42
1:D:1004:LEU:O	1:D:1007:LEU:N	2.39	0.42
1:D:1154:GLU:O	1:D:1157:VAL:HB	2.20	0.42
1:D:1533:LEU:N	1:D:1555:MET:HE1	2.35	0.42
1:D:1539:ASP:O	1:D:1543:ARG:HD3	2.19	0.42
1:D:1605:GLY:O	1:D:1606:LYS:C	2.62	0.42
1:D:1918:PHE:O	1:D:1922:GLN:HG3	2.20	0.42
1:B:581:ASP:OD2	1:B:584:GLN:HG3	2.20	0.42
1:B:988:GLU:OE2	1:B:992:HIS:CE1	2.72	0.42
1:B:1285:LEU:HD13	1:B:1288:LEU:HD12	2.02	0.42
1:B:1493:PHE:CD1	1:B:1499:PHE:HE2	2.37	0.42
1:B:1572:GLN:HA	1:B:1578:LEU:HD22	2.02	0.42
1:B:1792:GLU:OE1	1:B:1793:ARG:NH1	2.53	0.42
1:B:1884:TYR:CE2	1:B:1885:ILE:HG12	2.54	0.42
1:A:663:GLN:N	1:A:666:ARG:O	2.51	0.42
1:A:924:ARG:O	1:A:928:LEU:HG	2.20	0.42
1:A:1409:ARG:HH22	1:A:1446:LYS:C	2.28	0.42
1:A:1492:ASN:HD21	1:A:1501:ARG:HH21	1.68	0.42
1:A:1530:LYS:O	1:A:1533:LEU:HB2	2.20	0.42
1:A:1539:ASP:O	1:A:1543:ARG:HD3	2.19	0.42
1:A:1586:ALA:HB1	1:A:1596:ARG:HE	1.85	0.42
1:A:1787:GLU:O	1:A:1791:THR:OG1	2.22	0.42
1:C:57:GLU:HB2	1:C:957:LYS:HZ2	1.84	0.42
1:C:734:LEU:HD13	1:C:757:LEU:HD22	2.02	0.42
1:C:846:GLU:OE1	1:C:846:GLU:N	2.53	0.42
1:C:1058:ASN:CG	1:C:1110:ALA:H	2.28	0.42
1:C:1099:LEU:HA	1:C:1099:LEU:HD12	1.76	0.42
1:C:1142:LEU:HA	1:C:1142:LEU:HD13	1.87	0.42
1:C:1563:THR:O	1:C:1566:VAL:HB	2.19	0.42
1:C:1592:SER:HB3	1:C:1595:LEU:HD12	2.01	0.42
1:C:1650:ILE:HD11	1:C:1706:VAL:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1720:TYR:CE2	1:D:1738:MET:SD	3.13	0.42
1:D:56:PHE:CD2	1:D:1014:PHE:HE2	2.37	0.42
1:D:290:LYS:O	1:D:292:ILE:HG23	2.20	0.42
1:D:558:LEU:HD22	1:D:637:PHE:CZ	2.54	0.42
1:D:748:LEU:N	1:D:748:LEU:HD12	2.35	0.42
1:D:761:LEU:HA	1:D:761:LEU:HD23	1.83	0.42
1:D:924:ARG:O	1:D:928:LEU:HG	2.20	0.42
1:D:1410:GLU:OE1	1:D:1410:GLU:N	2.51	0.42
1:D:1592:SER:HB3	1:D:1595:LEU:HD12	2.01	0.42
1:D:1648:GLN:NE2	1:D:1652:SER:HA	2.35	0.42
1:D:1660:ILE:HG23	1:D:1664:ILE:HD12	2.01	0.42
1:D:1751:TYR:HE1	1:D:1882:PHE:HD2	1.68	0.42
1:D:1753:ARG:HH12	1:D:1821:GLN:CD	2.28	0.42
1:D:1855:PRO:HB3	1:D:1871:LYS:HA	2.02	0.42
1:B:56:PHE:CD2	1:B:1014:PHE:HE2	2.37	0.42
1:B:1010:ARG:HG2	1:B:1057:LEU:HD11	2.01	0.42
1:B:1154:GLU:O	1:B:1157:VAL:HB	2.20	0.42
1:B:1421:LEU:HD23	1:B:1421:LEU:HA	1.87	0.42
1:B:1422:TYR:CD1	1:B:1422:TYR:C	2.98	0.42
1:B:1425:GLY:H	1:B:1465:ARG:HH11	1.68	0.42
1:B:1586:ALA:HB1	1:B:1596:ARG:HE	1.85	0.42
1:B:1607:HIS:O	1:B:1610:LEU:HB2	2.20	0.42
1:B:1855:PRO:HB3	1:B:1871:LYS:HA	2.02	0.42
1:A:125:ARG:HB2	1:A:128:GLN:OE1	2.20	0.42
1:A:1146:HIS:CD2	1:A:1165:TYR:HH	2.38	0.42
1:A:1166:LEU:HA	1:A:1166:LEU:HD13	1.79	0.42
1:A:1751:TYR:HE1	1:A:1882:PHE:HD2	1.68	0.42
1:A:1825:VAL:HG11	1:A:1876:LEU:HD12	2.01	0.42
1:A:2009:ARG:HA	1:A:2012:GLU:HG3	2.01	0.42
1:C:86:LEU:HD23	1:C:124:HIS:CB	2.50	0.42
1:C:217:ARG:HH22	1:C:218:ARG:HB2	1.83	0.42
1:C:749:SER:N	1:C:752:ASN:OD1	2.42	0.42
1:C:1396:LEU:HA	1:C:1396:LEU:HD23	1.86	0.42
1:C:1409:ARG:HH22	1:C:1446:LYS:C	2.28	0.42
1:C:1472:SER:OG	1:C:1474:ILE:N	2.38	0.42
1:C:1569:LYS:HB3	1:C:1569:LYS:HE3	1.88	0.42
1:C:1684:VAL:HB	1:C:1714:LEU:HD21	2.00	0.42
1:D:549:ASN:OD1	1:D:623:LEU:N	2.53	0.42
1:D:1010:ARG:HG2	1:D:1057:LEU:HD11	2.01	0.42
1:B:400:HIS:C	1:B:401:LEU:HD23	2.45	0.42
1:B:1254:LEU:O	1:B:1258:LEU:HD23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1533:LEU:N	1:B:1555:MET:HE1	2.35	0.42
1:B:1982:GLU:HB3	1:B:1986:ARG:NH2	2.34	0.42
1:B:2009:ARG:HA	1:B:2012:GLU:HG3	2.02	0.42
1:A:290:LYS:O	1:A:292:ILE:HG23	2.20	0.41
1:A:814:LEU:CD1	1:A:817:ARG:HH21	2.28	0.41
1:A:1486:TYR:HE1	1:A:1547:PHE:HZ	1.68	0.41
1:A:1533:LEU:N	1:A:1555:MET:HE1	2.35	0.41
1:A:1590:GLN:N	1:A:1596:ARG:HD3	2.35	0.41
1:A:1607:HIS:O	1:A:1610:LEU:HB2	2.20	0.41
1:A:1613:HIS:CE1	1:A:1696:MET:HE2	2.55	0.41
1:A:1900:THR:O	1:A:1904:VAL:HG23	2.19	0.41
1:C:125:ARG:HB2	1:C:128:GLN:OE1	2.20	0.41
1:C:283:LEU:HD23	1:C:283:LEU:HA	1.84	0.41
1:C:549:ASN:OD1	1:C:623:LEU:N	2.53	0.41
1:C:1425:GLY:H	1:C:1465:ARG:HH11	1.68	0.41
1:C:1502:VAL:O	1:C:1503:LYS:C	2.60	0.41
1:C:1503:LYS:NZ	1:C:1550:GLN:HB3	2.34	0.41
1:C:1572:GLN:HA	1:C:1578:LEU:HD22	2.02	0.41
1:C:1753:ARG:NH2	1:C:1823:THR:OG1	2.53	0.41
1:D:307:GLY:HA2	1:D:310:ARG:NE	2.35	0.41
1:D:326:ILE:HB	1:D:531:GLU:HA	2.01	0.41
1:D:400:HIS:C	1:D:401:LEU:HD23	2.45	0.41
1:D:632:HIS:HD2	1:D:658:TRP:HB2	1.84	0.41
1:D:1099:LEU:HD12	1:D:1099:LEU:HA	1.76	0.41
1:D:1451:LEU:HD22	1:D:1459:CYS:HA	2.01	0.41
1:D:1487:LEU:HA	1:D:1487:LEU:HD13	1.70	0.41
1:D:1590:GLN:N	1:D:1596:ARG:HD3	2.35	0.41
1:B:290:LYS:O	1:B:292:ILE:HG23	2.20	0.41
1:B:449:PHE:CE1	1:B:502:PRO:HD3	2.55	0.41
1:B:846:GLU:OE1	1:B:846:GLU:N	2.53	0.41
1:B:932:TRP:HE3	1:B:936:GLN:OE1	2.03	0.41
1:B:1592:SER:HB3	1:B:1595:LEU:HD12	2.01	0.41
1:B:1613:HIS:CE1	1:B:1696:MET:HE2	2.55	0.41
1:A:679:ASP:OD2	1:A:697:MET:HG3	2.19	0.41
1:A:793:ILE:O	1:A:796:GLN:HG2	2.20	0.41
1:A:1010:ARG:HG2	1:A:1057:LEU:HD11	2.01	0.41
1:A:1533:LEU:HA	1:A:1555:MET:HE1	2.00	0.41
1:A:1595:LEU:O	1:A:1599:TRP:HD1	2.03	0.41
1:C:56:PHE:CD2	1:C:1014:PHE:HE2	2.37	0.41
1:C:108:GLN:HE21	1:C:732:HIS:CB	2.32	0.41
1:C:307:GLY:HA2	1:C:310:ARG:NE	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:470:GLU:H	1:C:470:GLU:CD	2.26	0.41
1:C:568:ARG:HB2	1:C:610:ASN:O	2.20	0.41
1:C:1455:ASP:OD2	1:C:1457:GLU:N	2.53	0.41
1:C:1493:PHE:CD1	1:C:1499:PHE:HE2	2.38	0.41
1:C:1586:ALA:HB1	1:C:1596:ARG:HE	1.85	0.41
1:C:1617:ALA:O	1:C:1621:VAL:HG23	2.20	0.41
1:D:788:ILE:HG22	1:D:789:ARG:HG3	2.02	0.41
1:D:814:LEU:CD1	1:D:817:ARG:HH21	2.28	0.41
1:D:1002:SER:O	1:D:1005:LEU:HB2	2.20	0.41
1:D:1146:HIS:HA	1:D:1149:ASP:OD2	2.20	0.41
1:D:1179:LEU:HA	1:D:1245:LEU:HD13	2.02	0.41
1:D:1617:ALA:O	1:D:1621:VAL:HG23	2.20	0.41
1:D:1792:GLU:OE1	1:D:1793:ARG:NH1	2.53	0.41
1:B:307:GLY:HA2	1:B:310:ARG:NE	2.35	0.41
1:B:568:ARG:HB2	1:B:610:ASN:O	2.20	0.41
1:B:954:THR:O	1:B:959:ARG:NE	2.51	0.41
1:B:1410:GLU:OE1	1:B:1410:GLU:N	2.51	0.41
1:B:1503:LYS:NZ	1:B:1550:GLN:HB3	2.34	0.41
1:B:1648:GLN:NE2	1:B:1652:SER:HA	2.35	0.41
1:B:1680:GLU:OE1	1:B:1681:LEU:HD22	2.21	0.41
1:B:1684:VAL:HB	1:B:1714:LEU:HD21	2.00	0.41
1:B:1859:ASP:OD2	1:B:1861:ARG:NH2	2.46	0.41
1:B:1918:PHE:O	1:B:1922:GLN:HG3	2.20	0.41
1:B:1929:MET:SD	1:B:1929:MET:N	2.89	0.41
1:A:568:ARG:HB2	1:A:610:ASN:O	2.20	0.41
1:A:846:GLU:OE1	1:A:846:GLU:N	2.53	0.41
1:A:1059:LEU:HD12	1:A:1059:LEU:HA	1.82	0.41
1:A:1428:GLN:HG2	1:A:1432:PHE:HE2	1.84	0.41
1:A:1472:SER:OG	1:A:1474:ILE:N	2.38	0.41
1:A:1617:ALA:O	1:A:1621:VAL:HG23	2.20	0.41
1:A:1648:GLN:NE2	1:A:1652:SER:HA	2.35	0.41
1:A:1727:HIS:CD2	1:B:1734:PHE:HE2	2.38	0.41
1:A:1855:PRO:HB3	1:A:1871:LYS:HA	2.02	0.41
1:A:1880:HIS:H	1:A:1889:ILE:CG1	2.28	0.41
1:C:786:LEU:HD21	1:C:800:LEU:HD23	2.02	0.41
1:C:1566:VAL:O	1:C:1567:LYS:C	2.63	0.41
1:C:1595:LEU:O	1:C:1599:TRP:HD1	2.03	0.41
1:C:1644:CYS:HA	1:C:1647:PHE:CD2	2.54	0.41
1:C:1680:GLU:OE1	1:C:1681:LEU:HD22	2.20	0.41
1:C:1855:PRO:HB3	1:C:1871:LYS:HA	2.02	0.41
1:D:85:LEU:HA	1:D:122:ILE:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:511:LEU:HD23	1:D:511:LEU:HA	1.80	0.41
1:D:581:ASP:OD2	1:D:584:GLN:HG3	2.20	0.41
1:D:591:GLY:HA3	1:D:596:SER:O	2.19	0.41
1:D:1143:LEU:HA	1:D:1143:LEU:HD23	1.74	0.41
1:D:1285:LEU:HD13	1:D:1288:LEU:HD12	2.02	0.41
1:B:133:ALA:HB2	1:B:244:VAL:HG11	2.02	0.41
1:B:632:HIS:HD2	1:B:658:TRP:HB2	1.84	0.41
1:B:748:LEU:N	1:B:748:LEU:HD12	2.35	0.41
1:B:786:LEU:HD21	1:B:800:LEU:HD23	2.03	0.41
1:B:924:ARG:O	1:B:928:LEU:HG	2.20	0.41
1:B:1300:LYS:HZ1	1:B:1374:MET:C	2.28	0.41
1:B:1644:CYS:HA	1:B:1647:PHE:CD2	2.55	0.41
1:A:400:HIS:C	1:A:401:LEU:HD23	2.45	0.41
1:A:802:ARG:CZ	1:A:802:ARG:HB3	2.51	0.41
1:A:1396:LEU:HA	1:A:1396:LEU:HD23	1.86	0.41
1:A:1437:LEU:HA	1:A:1437:LEU:HD23	1.81	0.41
1:A:1639:HIS:HB2	1:A:1713:ILE:HA	2.02	0.41
1:A:1703:VAL:O	1:A:1706:VAL:HG22	2.21	0.41
1:A:1792:GLU:OE1	1:A:1793:ARG:NH1	2.53	0.41
1:C:581:ASP:OD2	1:C:584:GLN:HG3	2.20	0.41
1:C:591:GLY:HA3	1:C:596:SER:O	2.19	0.41
1:C:748:LEU:HD12	1:C:748:LEU:N	2.35	0.41
1:C:924:ARG:O	1:C:928:LEU:HG	2.20	0.41
1:C:1179:LEU:HA	1:C:1245:LEU:HD13	2.02	0.41
1:C:1422:TYR:CD1	1:C:1422:TYR:C	2.98	0.41
1:C:1530:LYS:O	1:C:1533:LEU:HB2	2.20	0.41
1:C:1533:LEU:N	1:C:1555:MET:HE1	2.35	0.41
1:C:1630:TYR:O	1:C:1633:LEU:HB2	2.20	0.41
1:C:1792:GLU:OE1	1:C:1793:ARG:NH1	2.53	0.41
1:C:2009:ARG:HA	1:C:2012:GLU:HG3	2.02	0.41
1:D:674:LEU:HD13	1:D:690:PRO:CG	2.51	0.41
1:D:1613:HIS:CE1	1:D:1696:MET:HE2	2.55	0.41
1:D:1650:ILE:HD11	1:D:1706:VAL:HA	2.02	0.41
1:D:1680:GLU:OE1	1:D:1681:LEU:HD22	2.21	0.41
1:B:70:GLY:HA2	1:B:71:PRO:HD3	1.92	0.41
1:B:660:PRO:HG2	1:B:689:THR:HG22	2.01	0.41
1:B:1058:ASN:CG	1:B:1110:ALA:H	2.28	0.41
1:B:1097:PHE:CZ	1:B:1272:TRP:HB2	2.56	0.41
1:B:1146:HIS:HA	1:B:1149:ASP:OD2	2.21	0.41
1:B:1451:LEU:HD22	1:B:1459:CYS:HA	2.01	0.41
1:B:1595:LEU:O	1:B:1599:TRP:HD1	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1993:GLY:O	1:B:1997:LYS:HE3	2.21	0.41
1:A:734:LEU:HD13	1:A:757:LEU:HD22	2.02	0.41
1:A:1097:PHE:CZ	1:A:1272:TRP:HB2	2.56	0.41
1:A:1401:GLN:HA	1:A:1404:MET:SD	2.61	0.41
1:A:1566:VAL:O	1:A:1567:LYS:C	2.63	0.41
1:A:1605:GLY:O	1:A:1606:LYS:C	2.62	0.41
1:A:1753:ARG:HH12	1:A:1821:GLN:CD	2.28	0.41
1:C:400:HIS:C	1:C:401:LEU:HD23	2.45	0.41
1:C:486:LEU:HD23	1:C:486:LEU:HA	1.90	0.41
1:C:558:LEU:HD11	1:C:706:VAL:HG23	2.03	0.41
1:C:808:MET:O	1:C:811:VAL:HB	2.21	0.41
1:C:1154:GLU:O	1:C:1157:VAL:HB	2.20	0.41
1:C:1703:VAL:O	1:C:1706:VAL:HG22	2.21	0.41
1:D:512:SER:HA	1:D:531:GLU:OE2	2.21	0.41
1:D:942:MET:HE3	1:D:964:PHE:CE2	2.54	0.41
1:D:1097:PHE:CZ	1:D:1272:TRP:HB2	2.56	0.41
1:D:1258:LEU:HD13	1:D:1258:LEU:HA	1.93	0.41
1:D:1422:TYR:CD1	1:D:1422:TYR:C	2.98	0.41
1:D:1425:GLY:H	1:D:1465:ARG:HH11	1.68	0.41
1:D:1455:ASP:OD2	1:D:1457:GLU:N	2.53	0.41
1:D:1587:ARG:HA	1:D:1587:ARG:HD3	1.82	0.41
1:D:1630:TYR:O	1:D:1633:LEU:HB2	2.20	0.41
1:D:1802:ILE:HG21	1:D:1808:VAL:HG21	2.02	0.41
1:B:283:LEU:HD23	1:B:283:LEU:HA	1.84	0.41
1:B:558:LEU:HD11	1:B:706:VAL:HG23	2.03	0.41
1:B:1166:LEU:HA	1:B:1166:LEU:HD13	1.78	0.41
1:B:1486:TYR:HE1	1:B:1547:PHE:HZ	1.68	0.41
1:B:1563:THR:O	1:B:1566:VAL:HB	2.19	0.41
1:B:1751:TYR:HE1	1:B:1882:PHE:HD2	1.68	0.41
1:A:70:GLY:HA2	1:A:71:PRO:HD3	1.92	0.41
1:A:387:LEU:HD23	1:A:650:LEU:HD11	2.03	0.41
1:A:558:LEU:HD22	1:A:637:PHE:CZ	2.54	0.41
1:A:786:LEU:HD21	1:A:800:LEU:HD23	2.03	0.41
1:A:808:MET:O	1:A:811:VAL:HB	2.21	0.41
1:A:1285:LEU:HD13	1:A:1288:LEU:HD12	2.02	0.41
1:A:1410:GLU:OE1	1:A:1410:GLU:N	2.51	0.41
1:A:1993:GLY:O	1:A:1997:LYS:HE3	2.21	0.41
1:C:387:LEU:HD23	1:C:650:LEU:HD11	2.03	0.41
1:C:660:PRO:HG2	1:C:689:THR:HG22	2.02	0.41
1:C:814:LEU:HD13	1:C:814:LEU:HA	1.92	0.41
1:C:960:PHE:CB	1:C:965:LEU:HD21	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1010:ARG:HG2	1:C:1057:LEU:HD11	2.01	0.41
1:C:1097:PHE:CZ	1:C:1272:TRP:HB2	2.56	0.41
1:C:1590:GLN:HA	1:C:1596:ARG:HD3	2.02	0.41
1:D:283:LEU:HB2	1:D:293:SER:HB3	2.02	0.41
1:D:960:PHE:CB	1:D:965:LEU:HD21	2.51	0.41
1:D:1404:MET:SD	1:D:1404:MET:N	2.92	0.41
1:D:1491:GLN:HA	1:D:1494:GLU:OE1	2.21	0.41
1:D:1595:LEU:O	1:D:1599:TRP:HD1	2.03	0.41
1:D:1639:HIS:HB2	1:D:1713:ILE:HA	2.01	0.41
1:D:1923:ASP:HA	1:D:1924:PRO:HA	1.88	0.41
1:B:1001:LEU:HD12	1:B:1044:PHE:CZ	2.48	0.41
1:B:1004:LEU:O	1:B:1007:LEU:N	2.39	0.41
1:A:86:LEU:HD13	1:A:86:LEU:HA	1.97	0.41
1:A:581:ASP:OD2	1:A:584:GLN:HG3	2.20	0.41
1:A:788:ILE:HG22	1:A:789:ARG:HG3	2.02	0.41
1:A:932:TRP:HE3	1:A:936:GLN:OE1	2.03	0.41
1:A:1143:LEU:HA	1:A:1143:LEU:HD23	1.73	0.41
1:A:1592:SER:HB3	1:A:1595:LEU:HD12	2.01	0.41
1:A:1630:TYR:O	1:A:1633:LEU:HB2	2.20	0.41
1:C:1491:GLN:HA	1:C:1494:GLU:OE1	2.21	0.41
1:D:558:LEU:HD11	1:D:706:VAL:HG23	2.03	0.41
1:D:1530:LYS:O	1:D:1533:LEU:HB2	2.20	0.41
1:D:1753:ARG:NH2	1:D:1823:THR:OG1	2.53	0.41
1:B:85:LEU:HA	1:B:122:ILE:O	2.20	0.41
1:B:512:SER:HA	1:B:531:GLU:OE2	2.21	0.41
1:B:674:LEU:C	1:B:705:GLY:HA2	2.46	0.41
1:B:1401:GLN:HA	1:B:1404:MET:SD	2.61	0.41
1:B:1409:ARG:HH22	1:B:1446:LYS:C	2.28	0.41
1:B:1802:ILE:HG21	1:B:1808:VAL:HG21	2.02	0.41
1:B:1989:LYS:N	1:B:2000:HIS:CE1	2.86	0.41
1:A:558:LEU:HD11	1:A:706:VAL:HG23	2.03	0.41
1:A:761:LEU:HA	1:A:761:LEU:HD23	1.83	0.41
1:A:1138:ALA:O	1:A:1142:LEU:HD23	2.21	0.41
1:A:1455:ASP:OD2	1:A:1457:GLU:N	2.53	0.41
1:C:1138:ALA:O	1:C:1142:LEU:HD23	2.21	0.41
1:D:125:ARG:HB2	1:D:128:GLN:OE1	2.20	0.41
1:D:788:ILE:HG23	1:D:906:LYS:O	2.21	0.41
1:D:846:GLU:OE1	1:D:846:GLU:N	2.53	0.41
1:D:983:VAL:HG23	1:D:984:HIS:N	2.36	0.41
1:D:1097:PHE:CE1	1:D:1268:LEU:HD11	2.52	0.41
1:D:1401:GLN:HA	1:D:1404:MET:SD	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1474:ILE:HB	1:D:1477:ILE:HG13	2.01	0.41
1:B:280:ILE:O	1:B:340:ILE:HA	2.21	0.41
1:B:1051:HIS:HE1	1:B:1053:HIS:HB2	1.86	0.41
1:B:1404:MET:HE3	1:B:1404:MET:HB3	1.79	0.41
1:A:461:LYS:HE3	1:A:462:GLN:O	2.21	0.41
1:A:663:GLN:HE21	1:A:744:LYS:HZ2	1.69	0.41
1:A:748:LEU:N	1:A:748:LEU:HD12	2.35	0.41
1:A:788:ILE:HG23	1:A:906:LYS:O	2.21	0.41
1:A:829:CYS:HB3	1:A:832:LEU:HD12	2.03	0.41
1:A:1058:ASN:CG	1:A:1110:ALA:H	2.28	0.41
1:A:1154:GLU:O	1:A:1157:VAL:HB	2.20	0.41
1:A:1421:LEU:HD23	1:A:1421:LEU:HA	1.87	0.41
1:A:1425:GLY:H	1:A:1465:ARG:HH11	1.68	0.41
1:A:1558:LEU:O	1:A:1561:ILE:HB	2.21	0.41
1:A:1615:GLU:HG2	1:A:1616:ALA:N	2.36	0.41
1:A:1926:ASP:HB2	1:A:1929:MET:SD	2.61	0.41
1:C:290:LYS:O	1:C:292:ILE:HG23	2.20	0.41
1:C:467:LEU:HD11	1:C:475:PHE:CE2	2.53	0.41
1:C:983:VAL:HG23	1:C:984:HIS:N	2.36	0.41
1:C:1146:HIS:HA	1:C:1149:ASP:OD2	2.20	0.41
1:C:1254:LEU:HD13	1:C:1254:LEU:HA	1.82	0.41
1:C:1285:LEU:HD13	1:C:1288:LEU:HD12	2.02	0.41
1:C:1550:GLN:O	1:C:1553:ASP:OD1	2.39	0.41
1:C:1553:ASP:OD1	1:C:1553:ASP:C	2.63	0.41
1:C:1607:HIS:O	1:C:1610:LEU:HB2	2.20	0.41
1:C:1648:GLN:NE2	1:C:1652:SER:HA	2.35	0.41
1:C:1687:LEU:HD13	1:C:1710:LEU:HD13	2.03	0.41
1:C:1693:TYR:HA	1:C:1696:MET:HG2	2.01	0.41
1:C:1926:ASP:HB2	1:C:1929:MET:SD	2.61	0.41
1:C:2018:LEU:HD23	1:C:2018:LEU:HA	1.87	0.41
1:D:280:ILE:O	1:D:340:ILE:HA	2.21	0.41
1:D:303:ASP:HA	1:D:306:LYS:HB2	2.03	0.41
1:D:461:LYS:HE3	1:D:462:GLN:O	2.21	0.41
1:D:628:THR:HG22	1:D:629:GLU:N	2.36	0.41
1:D:802:ARG:CZ	1:D:802:ARG:HB3	2.51	0.41
1:D:829:CYS:HB3	1:D:832:LEU:HD12	2.03	0.41
1:D:932:TRP:HE3	1:D:936:GLN:OE1	2.03	0.41
1:D:1001:LEU:HD12	1:D:1044:PHE:CZ	2.48	0.41
1:D:1058:ASN:CG	1:D:1110:ALA:H	2.28	0.41
1:D:1300:LYS:HZ1	1:D:1374:MET:C	2.28	0.41
1:D:1428:GLN:HG2	1:D:1432:PHE:HE2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1481:ALA:O	1:D:1484:SER:OG	2.36	0.41
1:D:1550:GLN:O	1:D:1553:ASP:OD1	2.39	0.41
1:D:1590:GLN:HA	1:D:1596:ARG:HD3	2.02	0.41
1:D:1703:VAL:O	1:D:1706:VAL:HG22	2.21	0.41
1:D:1809:ASP:N	1:D:1812:LYS:HZ3	2.16	0.41
1:B:86:LEU:HD23	1:B:124:HIS:CB	2.50	0.41
1:B:281:LEU:HB2	1:B:296:PHE:HD2	1.86	0.41
1:B:283:LEU:HB2	1:B:293:SER:HB3	2.02	0.41
1:B:284:TYR:O	1:B:336:ILE:HA	2.21	0.41
1:B:674:LEU:HD13	1:B:690:PRO:CG	2.51	0.41
1:B:788:ILE:HG23	1:B:906:LYS:O	2.21	0.41
1:B:808:MET:O	1:B:811:VAL:HB	2.21	0.41
1:B:829:CYS:HB3	1:B:832:LEU:HD12	2.03	0.41
1:B:840:PHE:CZ	1:B:842:LEU:HB2	2.56	0.41
1:B:1448:PRO:HD2	1:B:1449:GLU:OE2	2.21	0.41
1:B:1491:GLN:HA	1:B:1494:GLU:OE1	2.21	0.41
1:B:1550:GLN:O	1:B:1553:ASP:OD1	2.39	0.41
1:B:1617:ALA:O	1:B:1621:VAL:HG23	2.20	0.41
1:B:1650:ILE:HD11	1:B:1706:VAL:HA	2.02	0.41
1:B:1753:ARG:NH2	1:B:1823:THR:OG1	2.53	0.41
1:B:1785:ARG:NH2	1:B:1789:PHE:HB2	2.36	0.41
1:A:578:THR:HG1	1:A:631:HIS:CD2	2.39	0.41
1:A:1300:LYS:HZ1	1:A:1374:MET:C	2.28	0.41
1:A:1422:TYR:CD1	1:A:1422:TYR:C	2.98	0.41
1:A:1572:GLN:HA	1:A:1578:LEU:HD22	2.02	0.41
1:C:512:SER:HA	1:C:531:GLU:OE2	2.21	0.41
1:C:628:THR:HG22	1:C:629:GLU:N	2.36	0.41
1:C:1421:LEU:HA	1:C:1421:LEU:HD23	1.87	0.41
1:C:1613:HIS:CE1	1:C:1696:MET:HE2	2.55	0.41
1:C:1639:HIS:HB2	1:C:1713:ILE:HA	2.02	0.41
1:C:1785:ARG:NH2	1:C:1789:PHE:HB2	2.36	0.41
1:C:1993:GLY:O	1:C:1997:LYS:HE3	2.21	0.41
1:D:786:LEU:HD21	1:D:800:LEU:HD23	2.03	0.41
1:D:1131:LEU:HD13	1:D:1131:LEU:HA	1.90	0.41
1:D:1407:GLU:N	1:D:1407:GLU:OE1	2.54	0.41
1:D:1707:TYR:HB3	1:D:1711:ILE:HD11	2.03	0.41
1:B:125:ARG:HB2	1:B:128:GLN:OE1	2.20	0.41
1:B:628:THR:HG22	1:B:629:GLU:N	2.36	0.41
1:B:960:PHE:CB	1:B:965:LEU:HD21	2.51	0.41
1:B:983:VAL:HG23	1:B:984:HIS:N	2.36	0.41
1:B:1403:VAL:C	1:B:1406:SER:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1753:ARG:HH12	1:B:1821:GLN:CD	2.28	0.41
1:B:1926:ASP:HB2	1:B:1929:MET:SD	2.61	0.41
1:A:512:SER:HA	1:A:531:GLU:OE2	2.21	0.40
1:A:549:ASN:OD1	1:A:623:LEU:N	2.53	0.40
1:A:983:VAL:HG23	1:A:984:HIS:N	2.36	0.40
1:A:1407:GLU:N	1:A:1407:GLU:OE1	2.54	0.40
1:A:1550:GLN:O	1:A:1553:ASP:OD1	2.39	0.40
1:A:1680:GLU:OE1	1:A:1681:LEU:HD22	2.21	0.40
1:C:775:PHE:O	1:C:779:VAL:HG23	2.22	0.40
1:C:932:TRP:HE3	1:C:936:GLN:OE1	2.03	0.40
1:C:1002:SER:O	1:C:1005:LEU:HB2	2.20	0.40
1:C:1143:LEU:HD23	1:C:1143:LEU:HA	1.73	0.40
1:C:1455:ASP:CG	1:C:1456:THR:N	2.80	0.40
1:C:1467:LEU:O	1:C:1468:ARG:C	2.64	0.40
1:D:54:LEU:CD1	1:D:1105:GLN:HB3	2.51	0.40
1:D:568:ARG:HB2	1:D:610:ASN:O	2.20	0.40
1:D:1001:LEU:HD23	1:D:1001:LEU:HA	1.90	0.40
1:D:1123:PRO:HA	1:D:1178:ARG:NH2	2.36	0.40
1:D:1409:ARG:HH22	1:D:1446:LYS:C	2.28	0.40
1:D:1472:SER:OG	1:D:1474:ILE:N	2.38	0.40
1:D:1486:TYR:HE1	1:D:1547:PHE:HZ	1.68	0.40
1:D:1626:LEU:HD12	1:D:1629:GLU:OE1	2.22	0.40
1:D:1751:TYR:CZ	1:D:1772:LYS:HD3	2.57	0.40
1:D:1764:LEU:HD23	1:D:1764:LEU:HA	1.92	0.40
1:D:1926:ASP:HB2	1:D:1929:MET:SD	2.61	0.40
1:B:54:LEU:CD1	1:B:1105:GLN:HB3	2.51	0.40
1:B:461:LYS:HE3	1:B:462:GLN:O	2.21	0.40
1:B:1041:ARG:O	1:B:1045:THR:HG23	2.21	0.40
1:B:1121:LEU:HD23	1:B:1121:LEU:HA	1.88	0.40
1:B:1569:LYS:HB3	1:B:1569:LYS:HE3	1.88	0.40
1:B:1587:ARG:NH1	1:B:1596:ARG:HH12	2.19	0.40
1:B:1687:LEU:HD13	1:B:1710:LEU:HD13	2.03	0.40
1:A:394:PHE:O	1:A:462:GLN:N	2.32	0.40
1:A:960:PHE:CB	1:A:965:LEU:HD21	2.51	0.40
1:A:1547:PHE:O	1:A:1551:VAL:HG23	2.21	0.40
1:C:252:PRO:HA	1:C:253:PRO:HD3	1.95	0.40
1:C:394:PHE:O	1:C:462:GLN:N	2.32	0.40
1:C:788:ILE:HG23	1:C:906:LYS:O	2.21	0.40
1:C:802:ARG:CZ	1:C:802:ARG:HB3	2.51	0.40
1:C:832:LEU:HD23	1:C:832:LEU:HA	1.88	0.40
1:C:1166:LEU:HA	1:C:1166:LEU:HD13	1.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1401:GLN:HA	1:C:1404:MET:SD	2.61	0.40
1:C:1407:GLU:N	1:C:1407:GLU:OE1	2.54	0.40
1:D:674:LEU:C	1:D:705:GLY:HA2	2.46	0.40
1:D:1288:LEU:O	1:D:1291:CYS:HB3	2.22	0.40
1:D:1553:ASP:OD1	1:D:1553:ASP:C	2.63	0.40
1:D:2009:ARG:HA	1:D:2012:GLU:HG3	2.01	0.40
1:B:72:LEU:HD21	1:B:1160:ARG:HG3	2.03	0.40
1:B:1154:GLU:OE1	1:B:1157:VAL:N	2.34	0.40
1:B:1590:GLN:HA	1:B:1596:ARG:HD3	2.02	0.40
1:B:1751:TYR:CZ	1:B:1772:LYS:HD3	2.57	0.40
1:A:85:LEU:HA	1:A:122:ILE:O	2.20	0.40
1:A:1000:PHE:CZ	1:A:1004:LEU:HD11	2.57	0.40
1:A:1109:LEU:H	1:A:1109:LEU:HG	1.67	0.40
1:A:1448:PRO:HD2	1:A:1449:GLU:OE2	2.21	0.40
1:A:1487:LEU:HD13	1:A:1487:LEU:HA	1.69	0.40
1:A:1587:ARG:NH1	1:A:1596:ARG:HH12	2.20	0.40
1:A:1826:GLU:HG3	1:A:1827:PRO:O	2.22	0.40
1:C:54:LEU:CD1	1:C:1105:GLN:HB3	2.51	0.40
1:C:283:LEU:HB2	1:C:293:SER:HB3	2.02	0.40
1:C:574:VAL:N	1:C:602:ALA:O	2.38	0.40
1:C:829:CYS:HB3	1:C:832:LEU:HD12	2.03	0.40
1:C:1000:PHE:CZ	1:C:1004:LEU:HD11	2.57	0.40
1:C:1051:HIS:HE1	1:C:1053:HIS:HB2	1.86	0.40
1:C:1437:LEU:HA	1:C:1437:LEU:HD23	1.81	0.40
1:C:1626:LEU:HD12	1:C:1629:GLU:OE1	2.21	0.40
1:C:1707:TYR:HB3	1:C:1711:ILE:HD11	2.03	0.40
1:C:1727:HIS:CE1	1:D:1734:PHE:HE2	2.39	0.40
1:C:1764:LEU:HD23	1:C:1764:LEU:HA	1.92	0.40
1:D:808:MET:O	1:D:811:VAL:HB	2.21	0.40
1:D:1547:PHE:O	1:D:1551:VAL:HG23	2.21	0.40
1:D:1578:LEU:O	1:D:1582:MET:HG3	2.22	0.40
1:D:1785:ARG:NH2	1:D:1789:PHE:HB2	2.36	0.40
1:D:1809:ASP:O	1:D:1813:LEU:HG	2.21	0.40
1:D:1993:GLY:O	1:D:1997:LYS:HE3	2.21	0.40
1:B:901:ARG:O	1:B:905:SER:OG	2.34	0.40
1:B:1138:ALA:O	1:B:1142:LEU:HD23	2.21	0.40
1:B:1553:ASP:OD1	1:B:1553:ASP:C	2.63	0.40
1:B:1587:ARG:HA	1:B:1587:ARG:HD3	1.82	0.40
1:A:628:THR:HG22	1:A:629:GLU:N	2.36	0.40
1:A:840:PHE:CZ	1:A:842:LEU:HB2	2.56	0.40
1:A:1491:GLN:HA	1:A:1494:GLU:OE1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1493:PHE:HB2	1:A:1499:PHE:CE2	2.57	0.40
1:A:1549:GLU:OE1	1:A:1549:GLU:N	2.31	0.40
1:A:1553:ASP:OD1	1:A:1553:ASP:C	2.63	0.40
1:A:1626:LEU:HD12	1:A:1629:GLU:OE1	2.21	0.40
1:A:1751:TYR:CZ	1:A:1772:LYS:HD3	2.56	0.40
1:A:1785:ARG:NH2	1:A:1789:PHE:HB2	2.36	0.40
1:C:248:SER:H	1:C:826:ARG:CD	2.35	0.40
1:C:281:LEU:HB2	1:C:296:PHE:HD2	1.86	0.40
1:C:840:PHE:CZ	1:C:842:LEU:HB2	2.56	0.40
1:C:1448:PRO:HD2	1:C:1449:GLU:OE2	2.21	0.40
1:C:1564:ASP:OD1	1:C:1565:THR:HG23	2.22	0.40
1:C:1701:GLU:HG3	1:C:1841:PHE:CG	2.57	0.40
1:D:281:LEU:HB2	1:D:296:PHE:HD2	1.86	0.40
1:D:284:TYR:O	1:D:336:ILE:HA	2.21	0.40
1:D:394:PHE:O	1:D:462:GLN:N	2.32	0.40
1:D:405:VAL:HG11	1:D:445:SER:O	2.22	0.40
1:D:840:PHE:CZ	1:D:842:LEU:HB2	2.56	0.40
1:D:1041:ARG:O	1:D:1045:THR:HG23	2.21	0.40
1:D:1138:ALA:O	1:D:1142:LEU:HD23	2.21	0.40
1:D:1525:LEU:C	1:D:1528:SER:HG	2.16	0.40
1:B:387:LEU:HD23	1:B:650:LEU:HD11	2.03	0.40
1:B:832:LEU:HA	1:B:832:LEU:HD23	1.88	0.40
1:B:1530:LYS:O	1:B:1533:LEU:HB2	2.20	0.40
1:B:1558:LEU:O	1:B:1561:ILE:HB	2.21	0.40
1:B:1578:LEU:O	1:B:1582:MET:HG3	2.22	0.40
1:B:1694:PHE:O	1:B:1698:GLY:N	2.37	0.40
1:A:486:LEU:HD23	1:A:486:LEU:HA	1.89	0.40
1:A:674:LEU:C	1:A:705:GLY:HA2	2.46	0.40
1:A:775:PHE:O	1:A:779:VAL:HG23	2.22	0.40
1:A:1531:THR:C	1:A:1534:THR:HG1	2.25	0.40
1:A:1564:ASP:OD1	1:A:1565:THR:HG23	2.22	0.40
1:A:1802:ILE:HG21	1:A:1808:VAL:HG21	2.02	0.40
1:C:280:ILE:O	1:C:340:ILE:HA	2.21	0.40
1:C:558:LEU:HA	1:C:558:LEU:HD12	1.91	0.40
1:C:1884:TYR:CD2	1:C:1886:LYS:HG3	2.57	0.40
1:D:283:LEU:HD23	1:D:338:LEU:HA	2.04	0.40
1:D:558:LEU:HD12	1:D:558:LEU:HA	1.91	0.40
1:D:814:LEU:HD13	1:D:814:LEU:HA	1.92	0.40
1:D:1051:HIS:HE1	1:D:1053:HIS:HB2	1.86	0.40
1:D:1572:GLN:HA	1:D:1578:LEU:HD22	2.02	0.40
1:B:1005:LEU:HD23	1:B:1005:LEU:HA	1.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1288:LEU:O	1:B:1291:CYS:HB3	2.22	0.40
1:B:1407:GLU:N	1:B:1407:GLU:OE1	2.54	0.40
1:B:1455:ASP:CG	1:B:1456:THR:N	2.79	0.40
1:B:1455:ASP:OD2	1:B:1457:GLU:N	2.53	0.40
1:B:1492:ASN:HD21	1:B:1501:ARG:HH21	1.68	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1667/2053 (81%)	1533 (92%)	134 (8%)	0	100	100
1	B	1667/2053 (81%)	1534 (92%)	133 (8%)	0	100	100
1	C	1667/2053 (81%)	1533 (92%)	134 (8%)	0	100	100
1	D	1667/2053 (81%)	1533 (92%)	134 (8%)	0	100	100
All	All	6668/8212 (81%)	6133 (92%)	535 (8%)	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	A	1470/1773 (83%)	1470 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	1470/1773 (83%)	1470 (100%)	0	100	100
1	C	1470/1773 (83%)	1470 (100%)	0	100	100
1	D	1470/1773 (83%)	1470 (100%)	0	100	100
All	All	5880/7092 (83%)	5880 (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 (83) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	108	GLN
1	A	219	ASN
1	A	256	HIS
1	A	259	GLN
1	A	544	HIS
1	A	584	GLN
1	A	732	HIS
1	A	984	HIS
1	A	1023	GLN
1	A	1053	HIS
1	A	1428	GLN
1	A	1440	GLN
1	A	1492	ASN
1	A	1497	HIS
1	A	1612	ASN
1	A	1613	HIS
1	A	1689	GLN
1	A	1717	HIS
1	A	1844	ASN
1	A	1870	HIS
1	A	2000	HIS
1	C	108	GLN
1	C	256	HIS
1	C	259	GLN
1	C	544	HIS
1	C	584	GLN
1	C	663	GLN
1	C	732	HIS
1	C	984	HIS
1	C	1023	GLN
1	C	1053	HIS

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Mol	Chain	Res	Type
1	C	1428	GLN
1	C	1440	GLN
1	C	1492	ASN
1	C	1497	HIS
1	C	1612	ASN
1	C	1613	HIS
1	C	1689	GLN
1	C	1717	HIS
1	C	1844	ASN
1	C	1870	HIS
1	C	2000	HIS
1	D	108	GLN
1	D	219	ASN
1	D	256	HIS
1	D	259	GLN
1	D	544	HIS
1	D	584	GLN
1	D	732	HIS
1	D	984	HIS
1	D	1023	GLN
1	D	1053	HIS
1	D	1428	GLN
1	D	1440	GLN
1	D	1492	ASN
1	D	1497	HIS
1	D	1613	HIS
1	D	1689	GLN
1	D	1717	HIS
1	D	1844	ASN
1	D	1870	HIS
1	D	2000	HIS
1	B	108	GLN
1	B	256	HIS
1	B	259	GLN
1	B	544	HIS
1	B	584	GLN
1	B	663	GLN
1	B	732	HIS
1	B	984	HIS
1	B	1023	GLN
1	B	1053	HIS
1	B	1428	GLN

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Mol	Chain	Res	Type
1	B	1440	GLN
1	B	1492	ASN
1	B	1497	HIS
1	B	1612	ASN
1	B	1613	HIS
1	B	1689	GLN
1	B	1717	HIS
1	B	1844	ASN
1	B	1870	HIS
1	B	2000	HIS

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](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

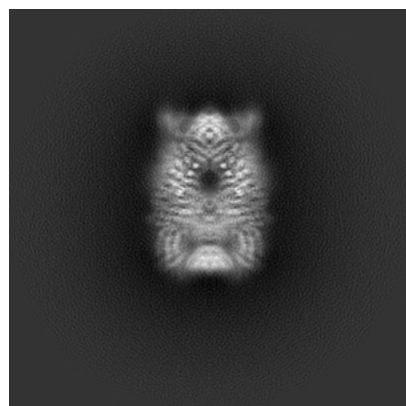
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-65178. These allow visual inspection of the internal detail of the map and identification of artifacts.

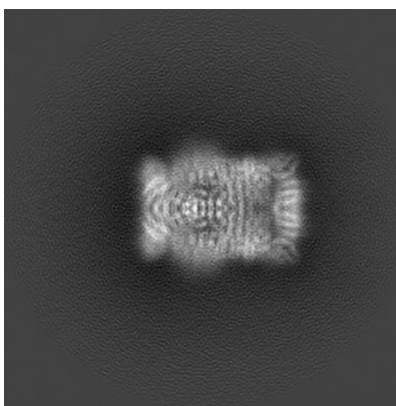
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

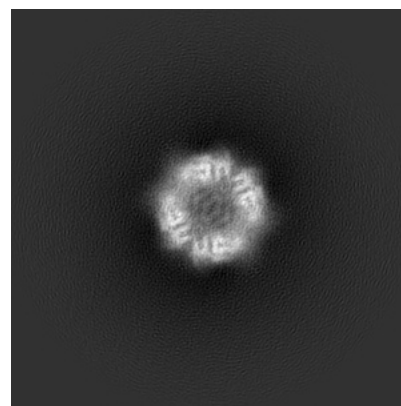
6.1.1 Primary map



X

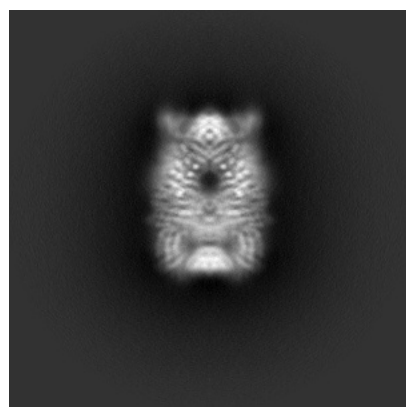


Y

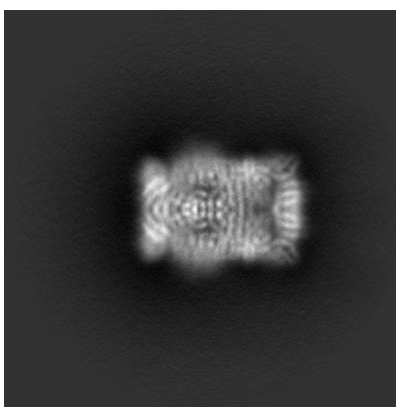


Z

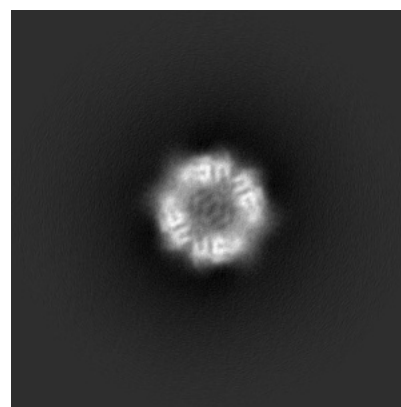
6.1.2 Raw map



X



Y

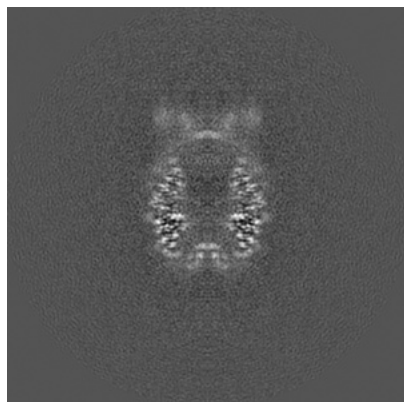


Z

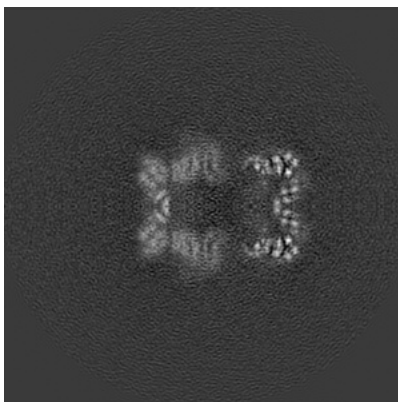
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

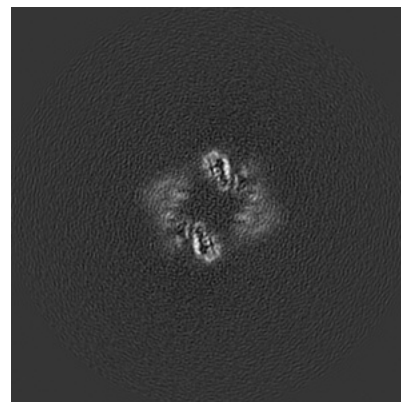
6.2.1 Primary map



X Index: 170

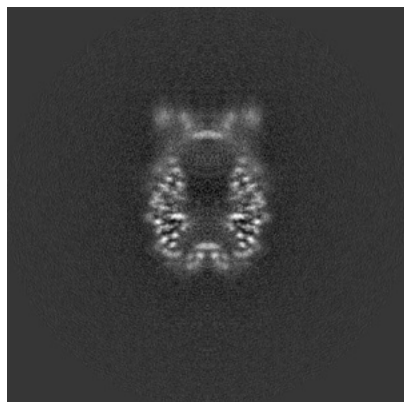


Y Index: 170

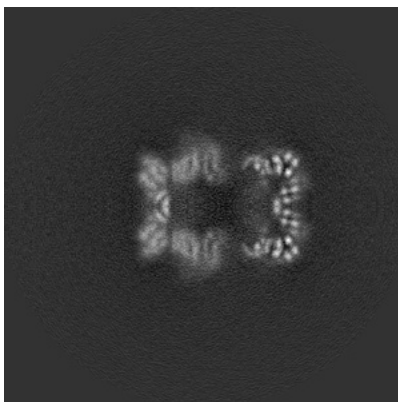


Z Index: 170

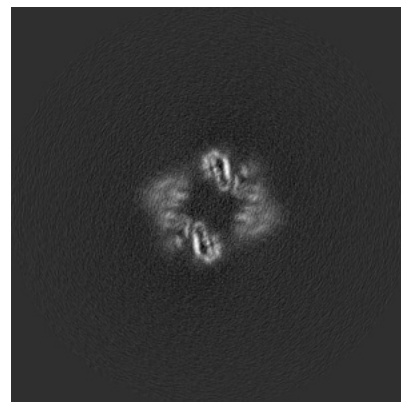
6.2.2 Raw map



X Index: 170



Y Index: 170

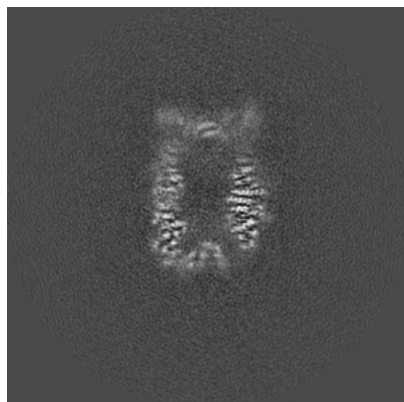


Z Index: 170

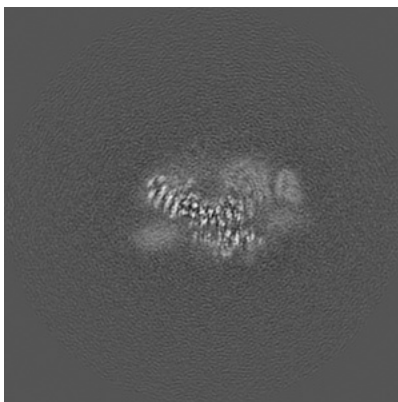
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

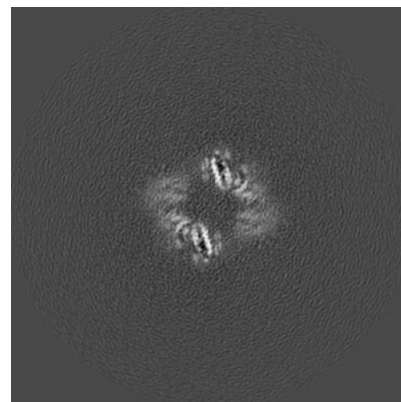
6.3.1 Primary map



X Index: 174

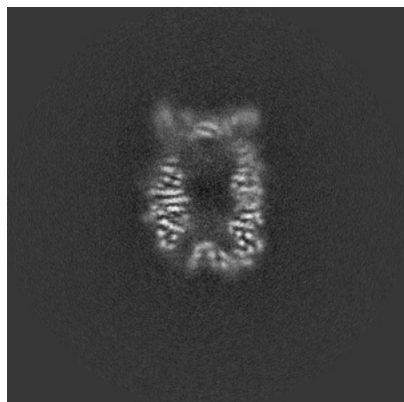


Y Index: 142

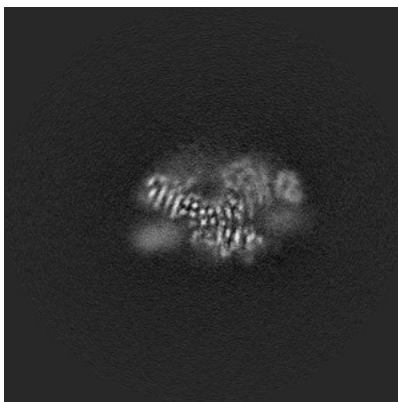


Z Index: 168

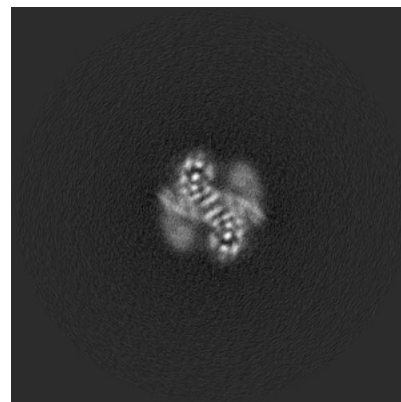
6.3.2 Raw map



X Index: 166



Y Index: 143

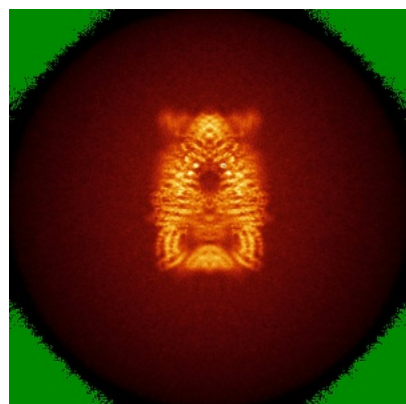


Z Index: 128

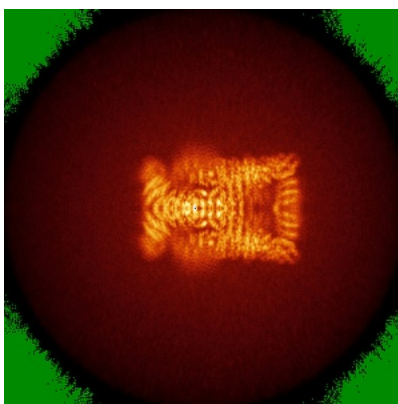
The images above show the largest variance slices of the map in three orthogonal directions.

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

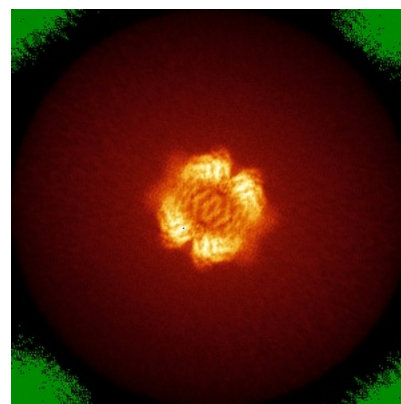
6.4.1 Primary map



X



Y

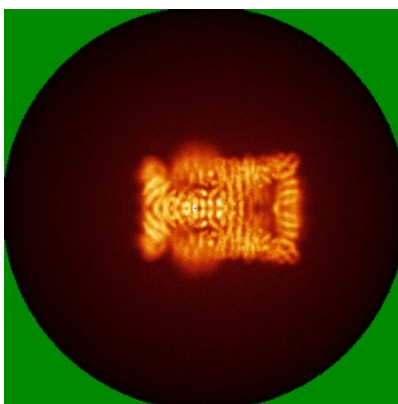


Z

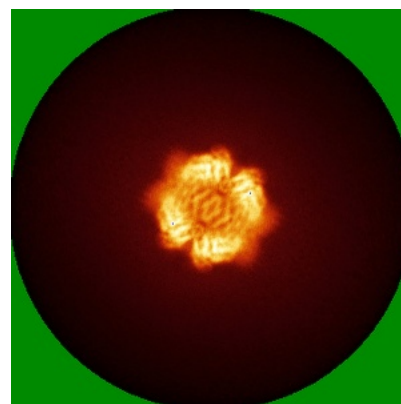
6.4.2 Raw map



X



Y

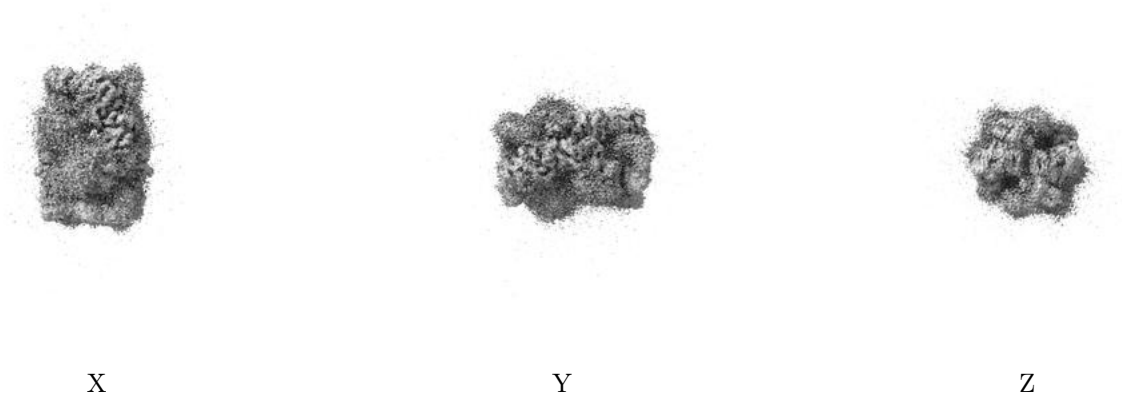


Z

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.

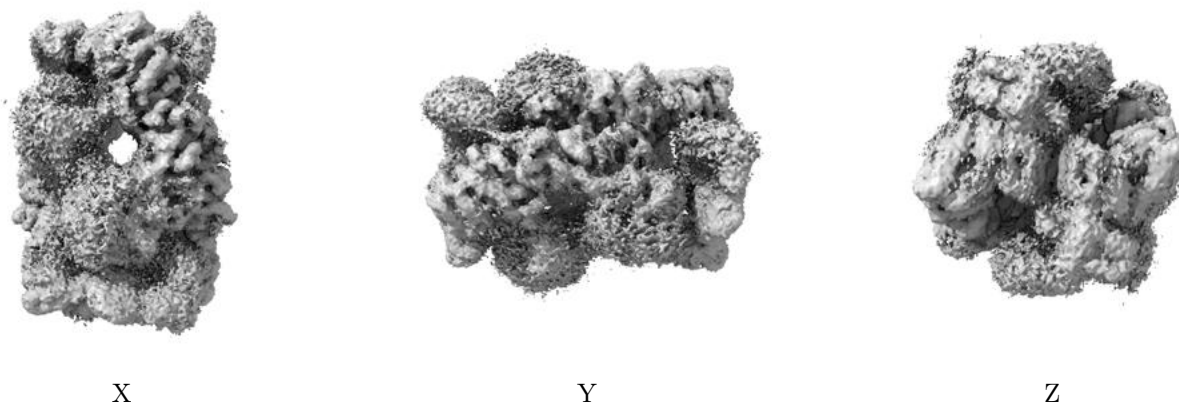
6.5 Orthogonal surface views [i](#)

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.

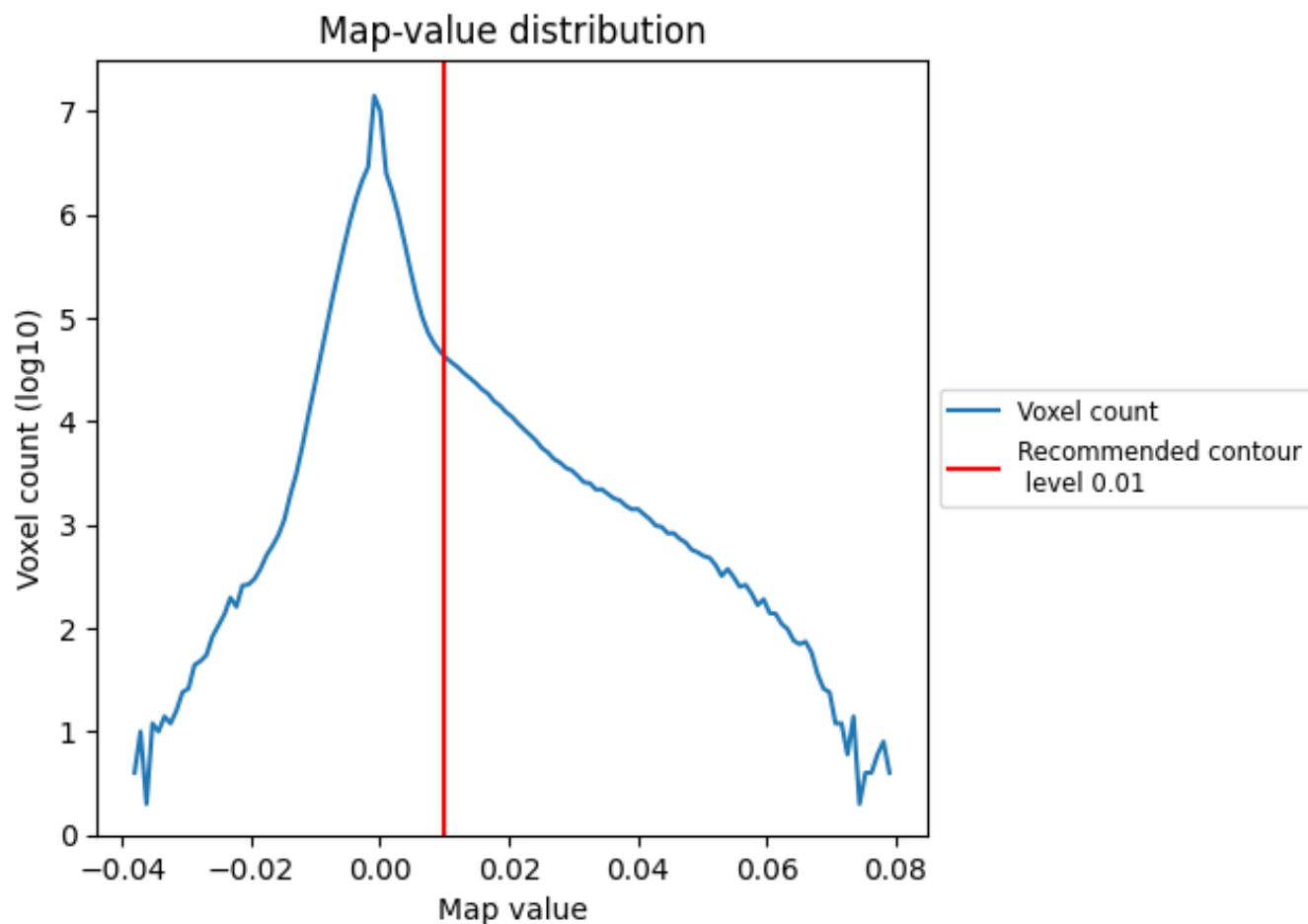
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

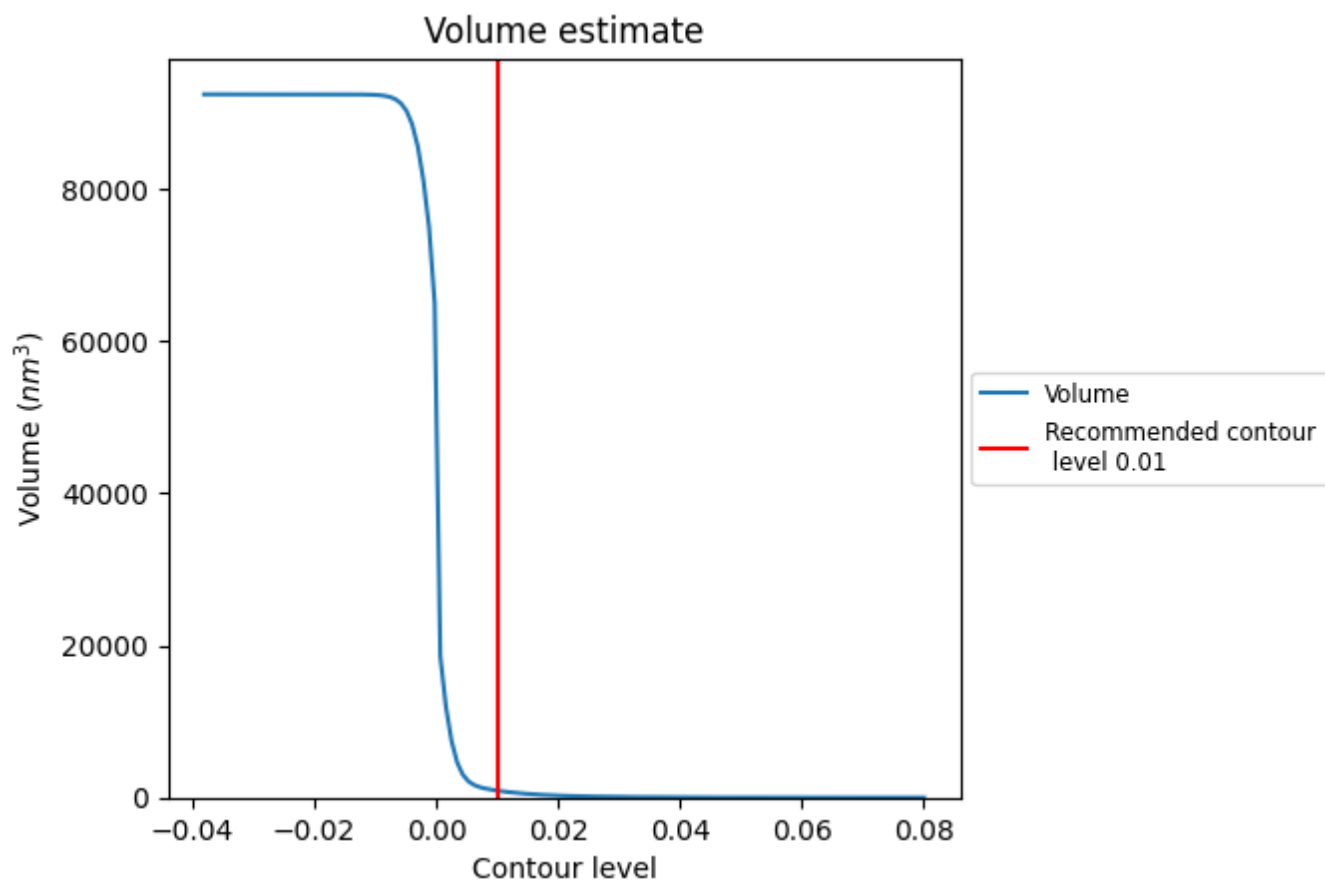
This section contains the results of statistical analysis of the map.

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.

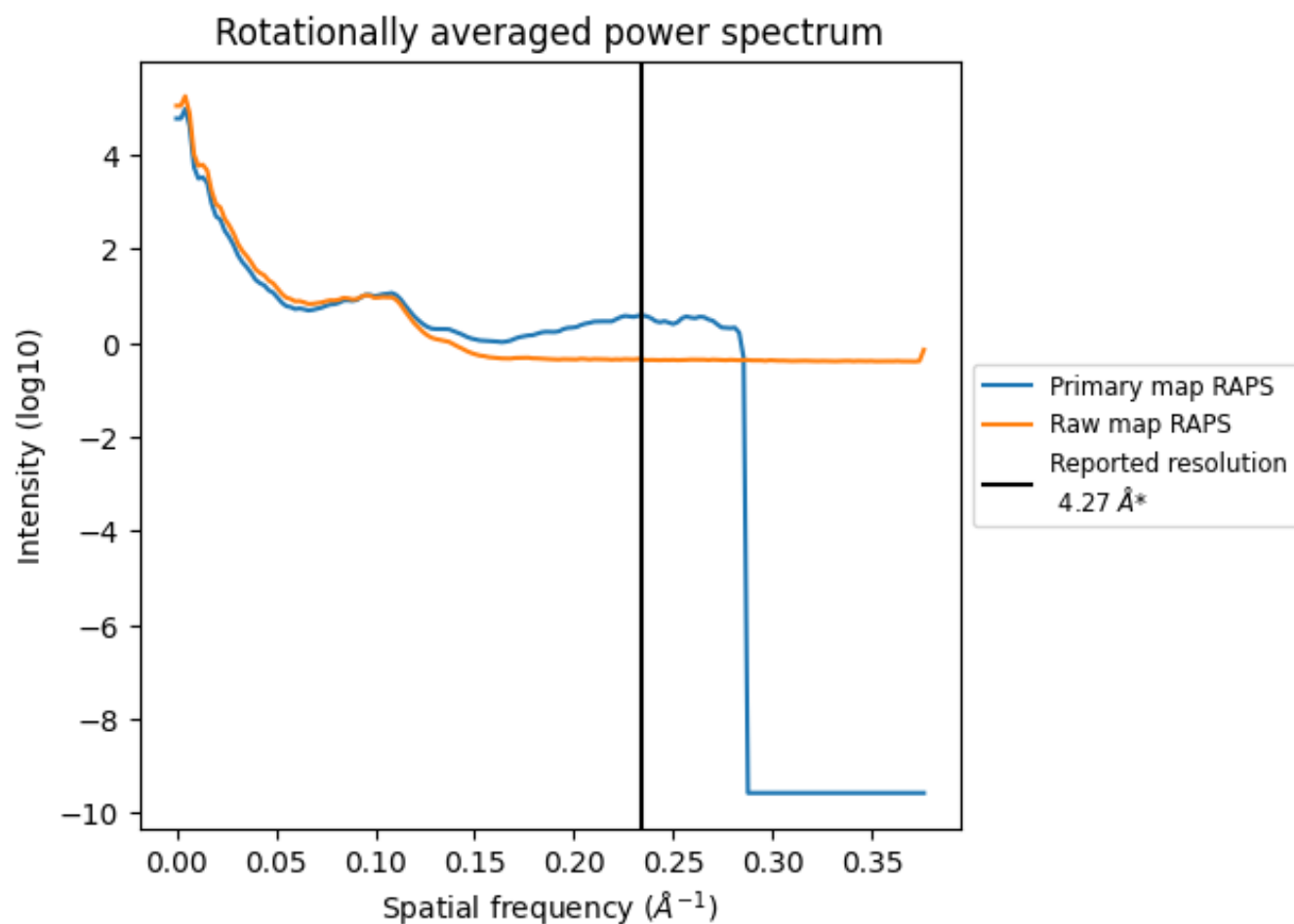
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 910 nm³; this corresponds to an approximate mass of 822 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 ⓘ

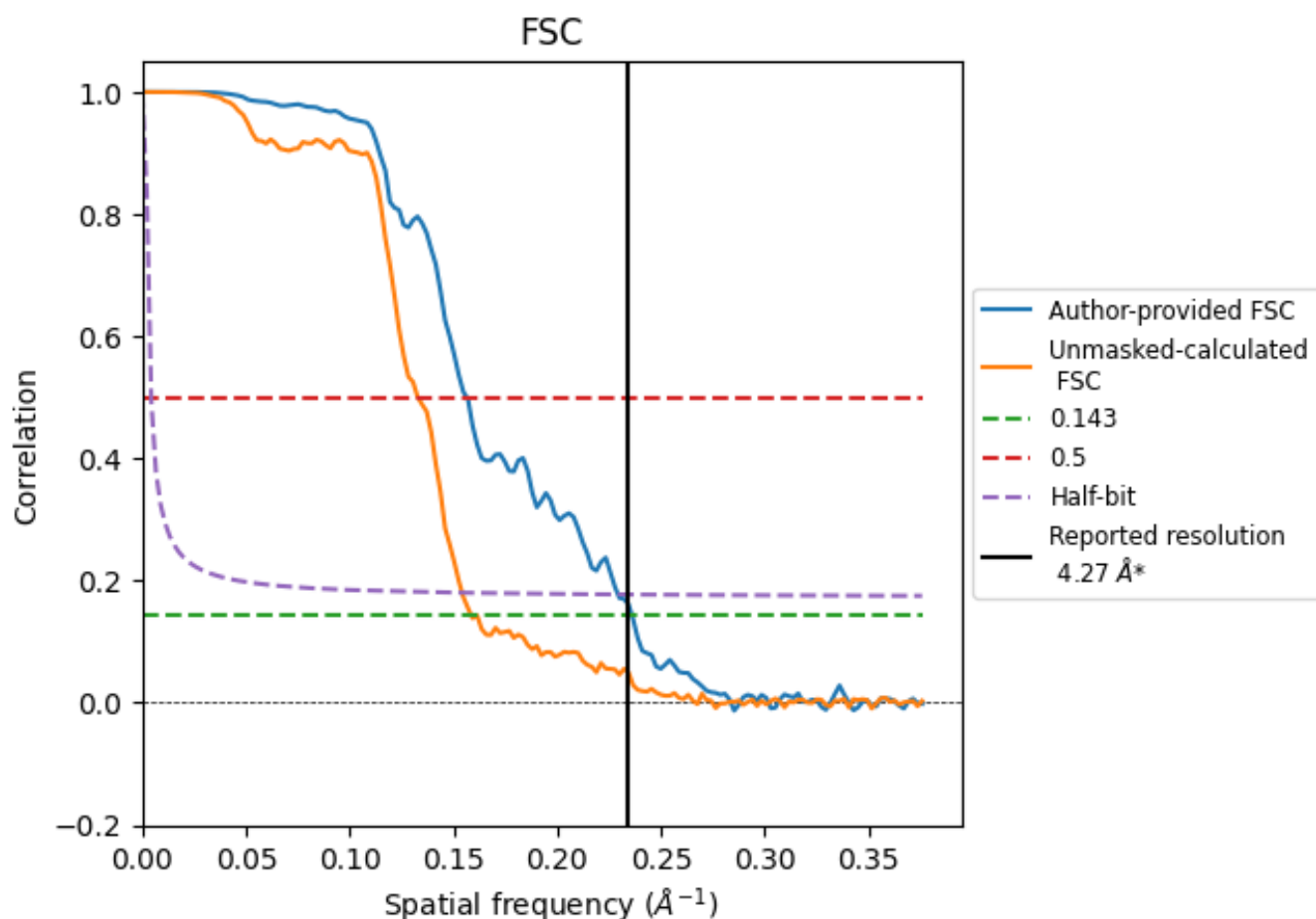


*Reported resolution corresponds to spatial frequency of 0.234 Å⁻¹

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 0.234 \AA^{-1}

8.2 Resolution estimates [i](#)

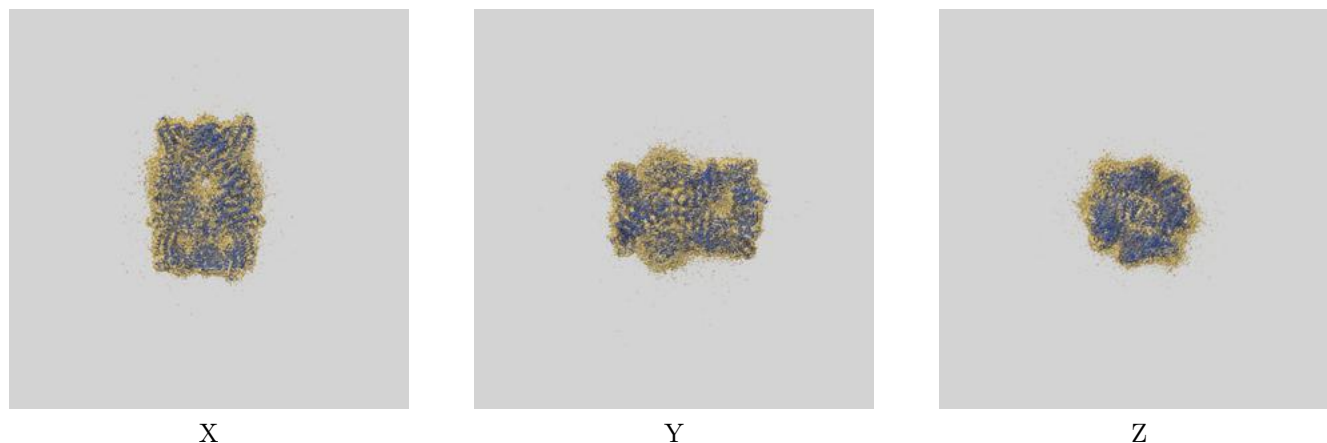
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.27	-	-
Author-provided FSC curve	4.24	6.39	4.36
Unmasked-calculated*	6.31	7.52	6.49

*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 6.31 differs from the reported value 4.27 by more than 10 %

9 Map-model fit [i](#)

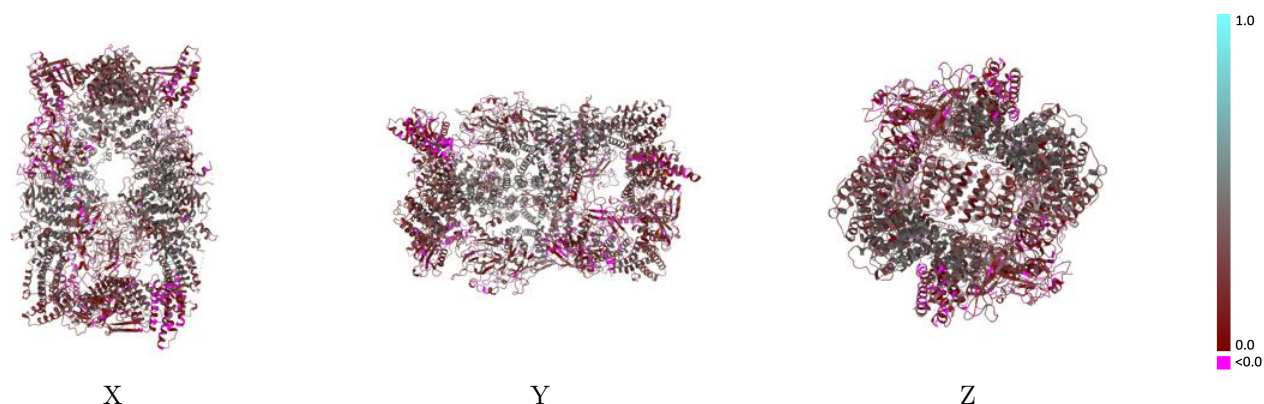
This section contains information regarding the fit between EMDB map EMD-65178 and PDB model 9VM6. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlay [i](#)



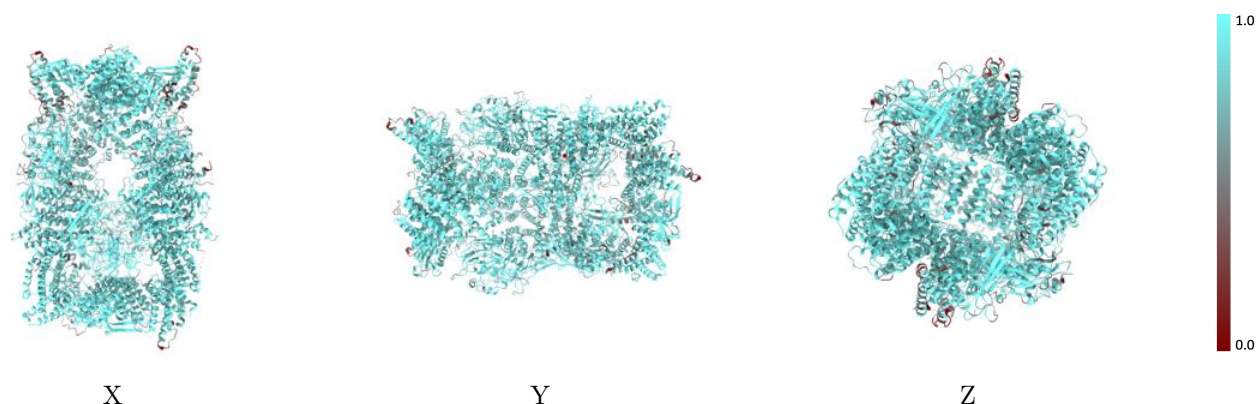
The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



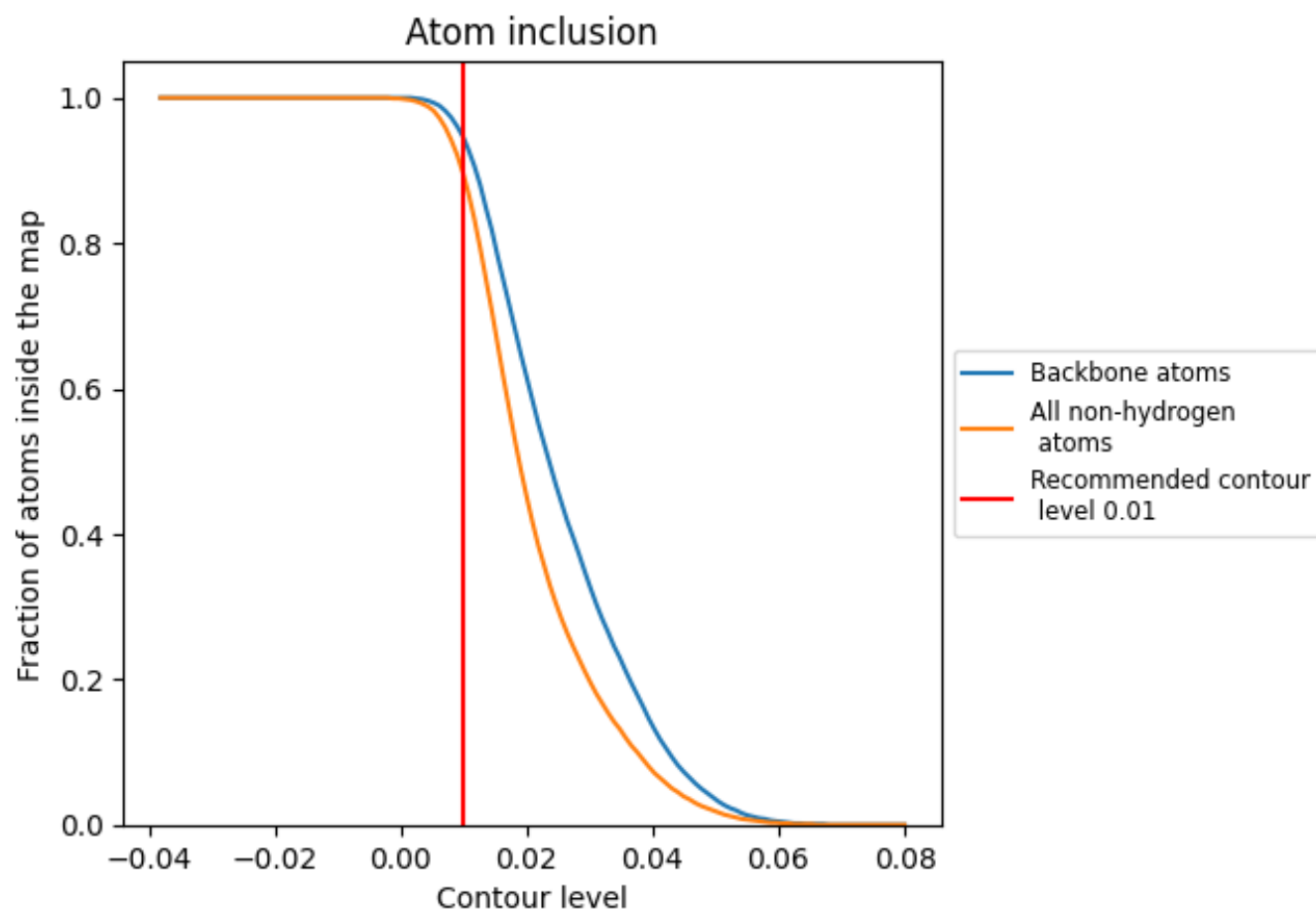
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 94% of all backbone atoms, 89% 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	<div></div> 0.8940	<div></div> 0.2700
A	<div></div> 0.8840	<div></div> 0.2410
B	<div></div> 0.8850	<div></div> 0.2430
C	<div></div> 0.9040	<div></div> 0.2990
D	<div></div> 0.9020	<div></div> 0.2980

