



Full wwPDB EM Validation Report ⓘ

Apr 15, 2026 – 02:17 AM UTC

PDB ID : 6JPU / pdb_00006jpu
EMDB ID : EMD-9871
Title : CryoEM structure of Abo1 hexamer - apo complex
Authors : Cho, C.; Jang, J.; Song, J.J.
Deposited on : 2019-03-28
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

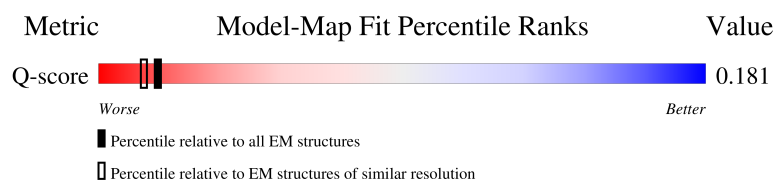
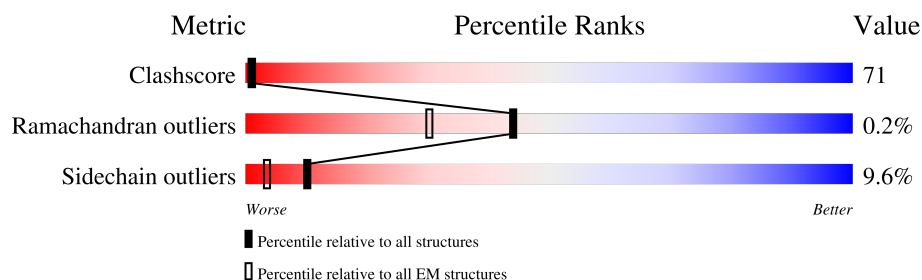
1 Overall quality at a glance i

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	1198	15% 10% 35% 52%
1	B	1198	17% 10% 35% 52%
1	C	1198	15% 11% 35% 52%
1	D	1198	14% 11% 35% 52%

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Mol	Chain	Length	Quality of chain
1	E	1198	17% 11% 35% 52%
1	F	1198	14% 10% 35% 52%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 30378 atoms, of which 2610 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 Uncharacterized AAA domain-containing protein C31G5.19.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	577	Total	C	H	N	O	S	0	0
			5063	2963	435	789	854	22		
1	B	577	Total	C	H	N	O	S	0	0
			5063	2963	435	789	854	22		
1	C	577	Total	C	H	N	O	S	0	0
			5063	2963	435	789	854	22		
1	D	577	Total	C	H	N	O	S	0	0
			5063	2963	435	789	854	22		
1	E	577	Total	C	H	N	O	S	0	0
			5063	2963	435	789	854	22		
1	F	577	Total	C	H	N	O	S	0	0
			5063	2963	435	789	854	22		

There are 48 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-7	GLY	-	expression tag	UNP O14114
A	-6	ALA	-	expression tag	UNP O14114
A	-5	MET	-	expression tag	UNP O14114
A	-4	GLY	-	expression tag	UNP O14114
A	-3	SER	-	expression tag	UNP O14114
A	-2	GLY	-	expression tag	UNP O14114
A	-1	ILE	-	expression tag	UNP O14114
A	0	GLN	-	expression tag	UNP O14114
B	-7	GLY	-	expression tag	UNP O14114
B	-6	ALA	-	expression tag	UNP O14114
B	-5	MET	-	expression tag	UNP O14114
B	-4	GLY	-	expression tag	UNP O14114
B	-3	SER	-	expression tag	UNP O14114
B	-2	GLY	-	expression tag	UNP O14114
B	-1	ILE	-	expression tag	UNP O14114
B	0	GLN	-	expression tag	UNP O14114
C	-7	GLY	-	expression tag	UNP O14114
C	-6	ALA	-	expression tag	UNP O14114

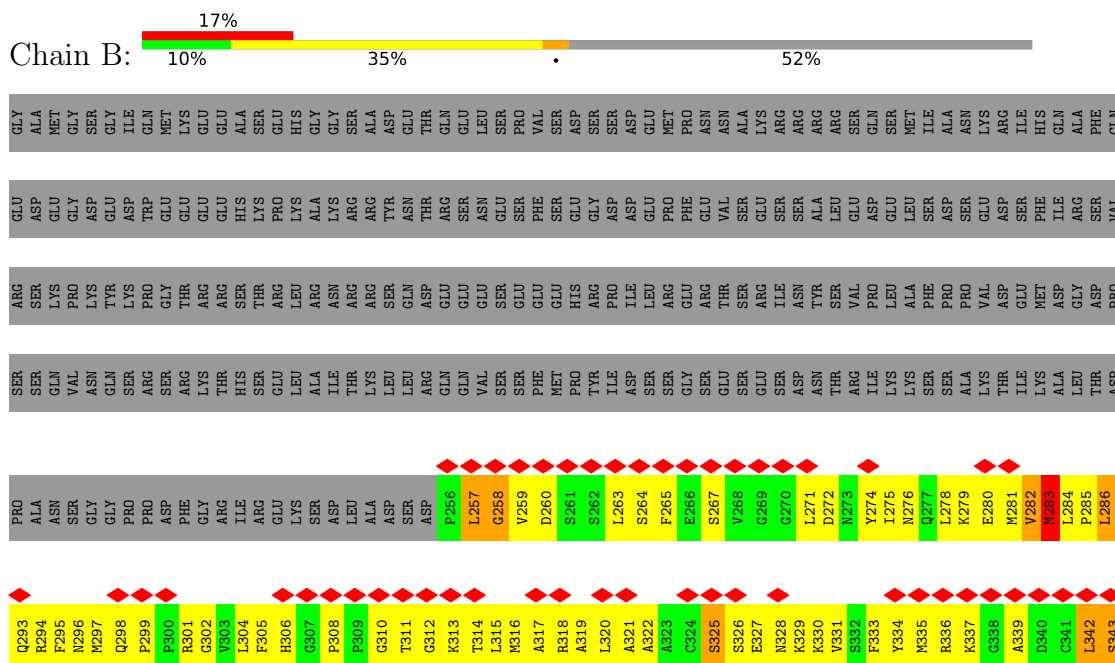
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Chain	Residue	Modelled	Actual	Comment	Reference
C	-5	MET	-	expression tag	UNP O14114
C	-4	GLY	-	expression tag	UNP O14114
C	-3	SER	-	expression tag	UNP O14114
C	-2	GLY	-	expression tag	UNP O14114
C	-1	ILE	-	expression tag	UNP O14114
C	0	GLN	-	expression tag	UNP O14114
D	-7	GLY	-	expression tag	UNP O14114
D	-6	ALA	-	expression tag	UNP O14114
D	-5	MET	-	expression tag	UNP O14114
D	-4	GLY	-	expression tag	UNP O14114
D	-3	SER	-	expression tag	UNP O14114
D	-2	GLY	-	expression tag	UNP O14114
D	-1	ILE	-	expression tag	UNP O14114
D	0	GLN	-	expression tag	UNP O14114
E	-7	GLY	-	expression tag	UNP O14114
E	-6	ALA	-	expression tag	UNP O14114
E	-5	MET	-	expression tag	UNP O14114
E	-4	GLY	-	expression tag	UNP O14114
E	-3	SER	-	expression tag	UNP O14114
E	-2	GLY	-	expression tag	UNP O14114
E	-1	ILE	-	expression tag	UNP O14114
E	0	GLN	-	expression tag	UNP O14114
F	-7	GLY	-	expression tag	UNP O14114
F	-6	ALA	-	expression tag	UNP O14114
F	-5	MET	-	expression tag	UNP O14114
F	-4	GLY	-	expression tag	UNP O14114
F	-3	SER	-	expression tag	UNP O14114
F	-2	GLY	-	expression tag	UNP O14114
F	-1	ILE	-	expression tag	UNP O14114
F	0	GLN	-	expression tag	UNP O14114



- Molecule 1: Uncharacterized AAA domain-containing protein C31G5.19

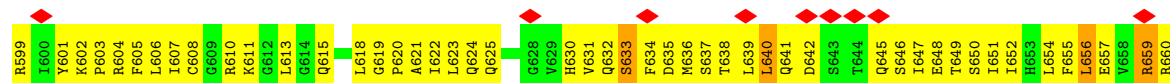
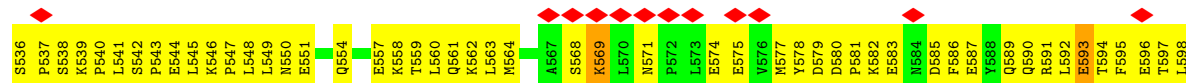
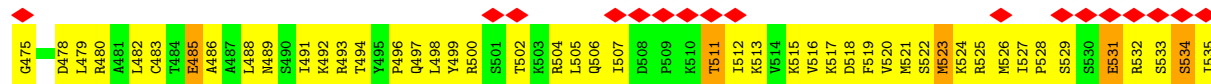
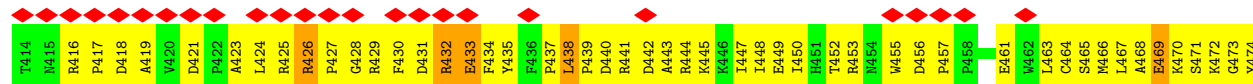
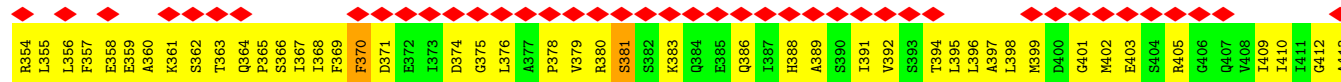
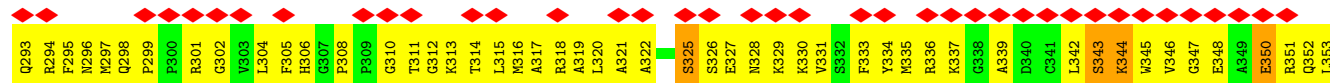
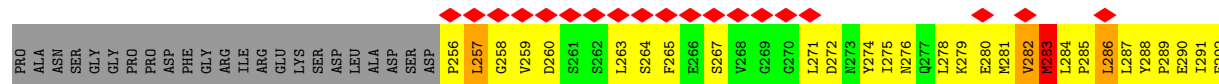


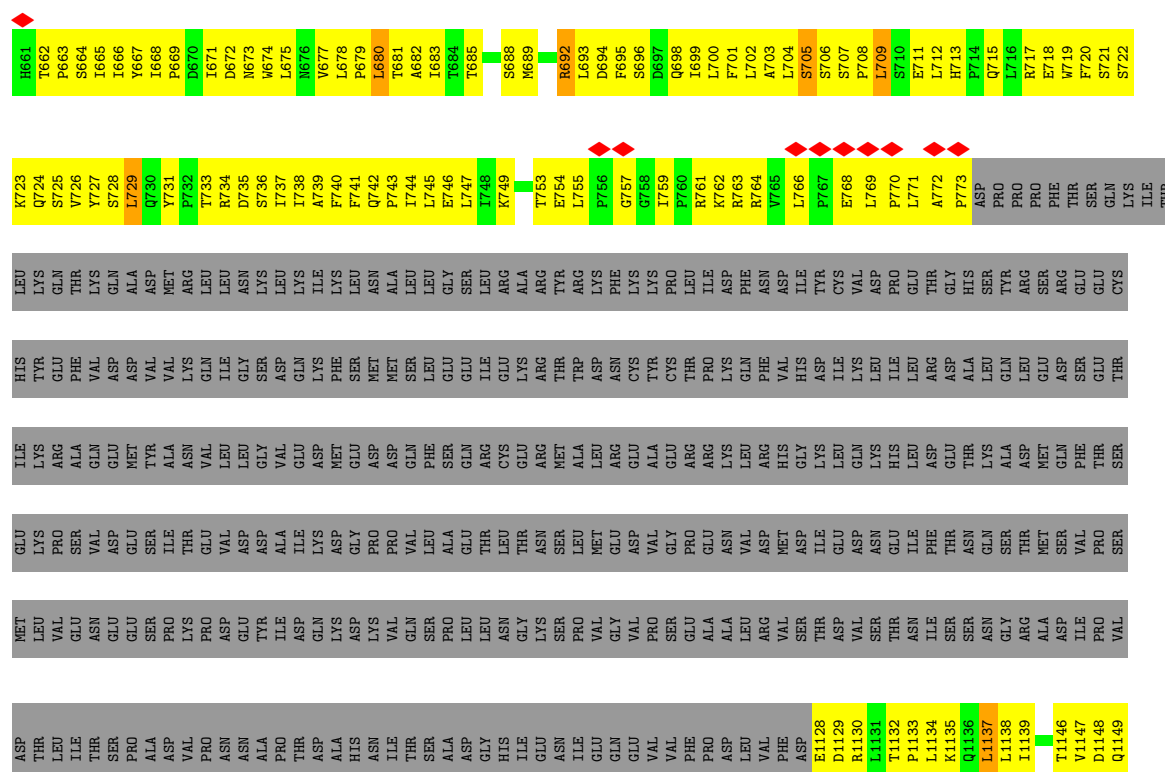




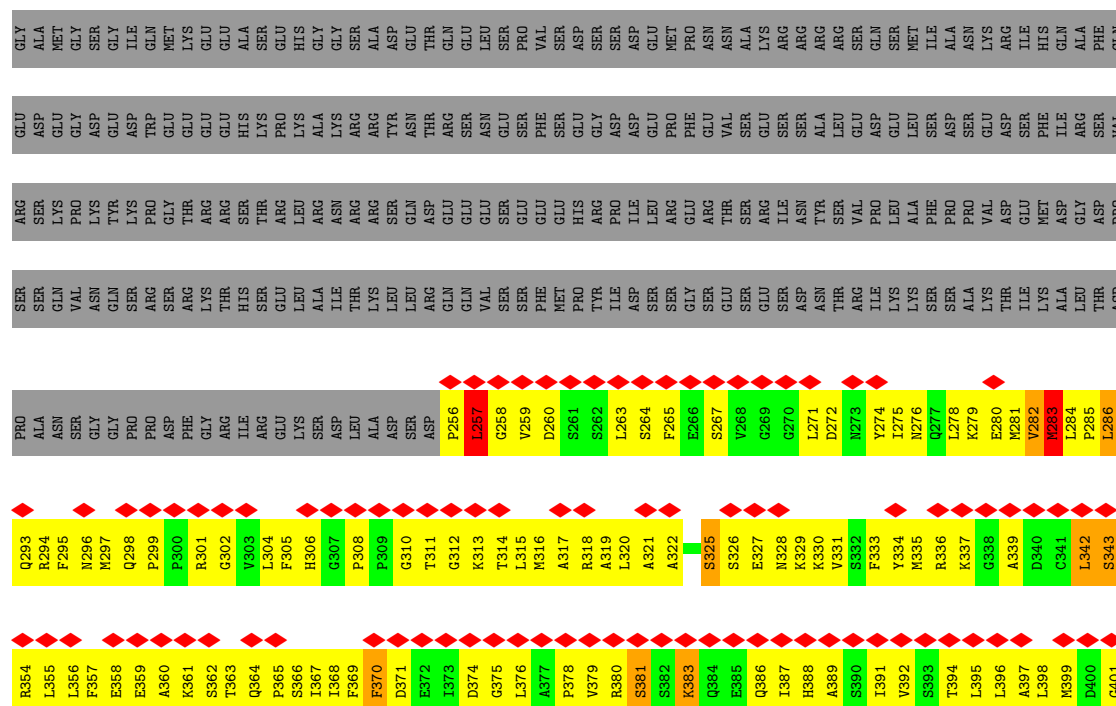


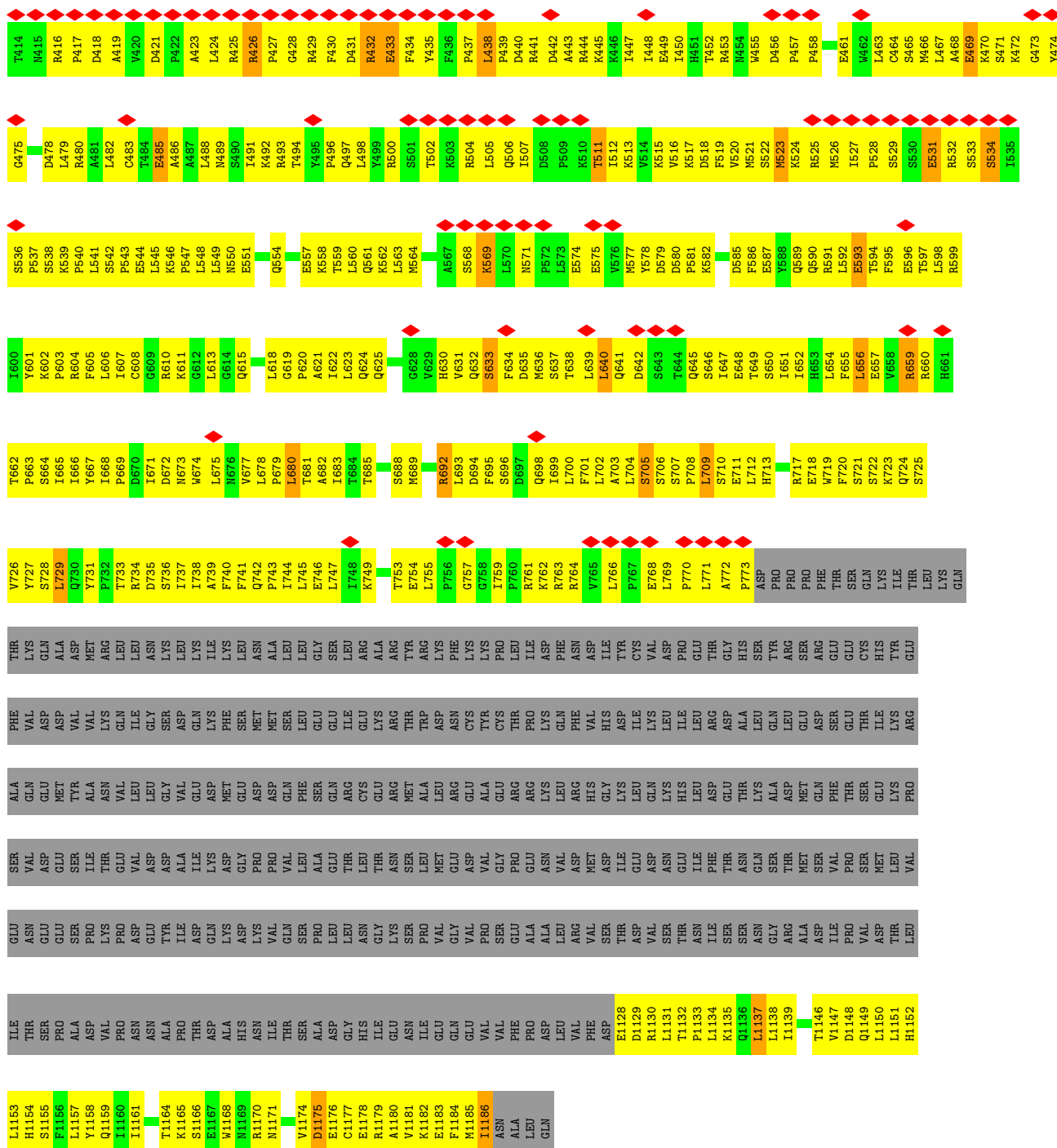
- Molecule 1: Uncharacterized AAA domain-containing protein C31G5.19



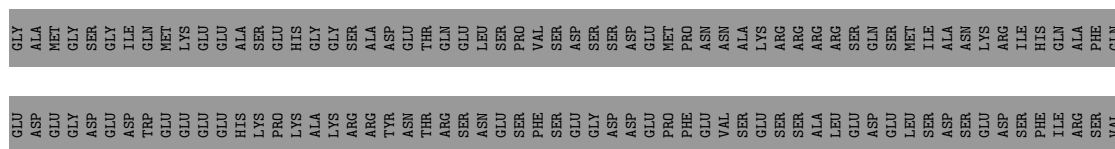


• Molecule 1: Uncharacterized AAA domain-containing protein C31G5.19





- Molecule 1: Uncharacterized AAA domain-containing protein C31G5.19





HI152	HI153	HI154	HI155	HI156	HI157	HI158	HI159	HI160	HI161	HI162	HI163	HI164	HI165	HI166	HI167	HI168	HI169	HI170	HI171	HI172	HI173	HI174	HI175	HI176	HI177	HI178	HI179	HI180	HI181	HI182	HI183	HI184	HI185	HI186	ASN	ALA	LEU	GLN
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4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	125874	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	1.5	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	8.458	Depositor
Minimum map value	-3.915	Depositor
Average map value	-0.011	Depositor
Map value standard deviation	0.371	Depositor
Recommended contour level	2	Depositor
Map size (Å)	317.99997, 317.99997, 317.99997	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.06, 1.06, 1.06	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	0.30	0/4734	0.60	0/6411
1	B	0.30	0/4734	0.60	1/6411 (0.0%)
1	C	0.30	0/4734	0.60	1/6411 (0.0%)
1	D	0.30	0/4734	0.60	1/6411 (0.0%)
1	E	0.30	0/4734	0.60	1/6411 (0.0%)
1	F	0.30	0/4734	0.60	1/6411 (0.0%)
All	All	0.30	0/28404	0.60	5/38466 (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	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
1	F	0	2
All	All	0	12

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	283	MET	CA-CB-CG	5.02	124.13	114.10
1	E	283	MET	CA-CB-CG	5.02	124.14	114.10
1	D	283	MET	CA-CB-CG	5.01	124.12	114.10
1	C	283	MET	CA-CB-CG	5.00	124.11	114.10
1	F	283	MET	CA-CB-CG	5.00	124.11	114.10

There are no chirality outliers.

All (12) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	257	LEU	Peptide
1	A	511	THR	Peptide
1	B	257	LEU	Peptide
1	B	511	THR	Peptide
1	C	257	LEU	Peptide
1	C	511	THR	Peptide
1	D	257	LEU	Peptide
1	D	511	THR	Peptide
1	E	257	LEU	Peptide
1	E	511	THR	Peptide
1	F	257	LEU	Peptide
1	F	511	THR	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	4628	435	4700	682	0
1	B	4628	435	4700	718	0
1	C	4628	435	4700	707	0
1	D	4628	435	4700	664	0
1	E	4628	435	4700	674	0
1	F	4628	435	4700	666	0
All	All	27768	2610	28200	3947	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 71.

All (3947) 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:B:482:LEU:HD23	1:B:526:MET:HE3	1.37	1.05
1:E:482:LEU:HD23	1:E:526:MET:HE3	1.37	1.05
1:A:482:LEU:HD23	1:A:526:MET:HE3	1.37	1.04
1:E:440:ASP:HA	1:E:472:LYS:HE2	1.40	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:440:ASP:HA	1:F:472:LYS:HE2	1.40	1.04
1:B:440:ASP:HA	1:B:472:LYS:HE2	1.40	1.04
1:D:482:LEU:HD23	1:D:526:MET:HE3	1.37	1.03
1:C:440:ASP:HA	1:C:472:LYS:HE2	1.40	1.03
1:F:482:LEU:HD23	1:F:526:MET:HE3	1.37	1.03
1:F:646:SER:HG	1:F:649:THR:HG1	1.04	1.03
1:A:583:GLU:HG3	1:B:515:LYS:HD3	1.38	1.02
1:B:599:ARG:HG2	1:C:1158:TYR:HB3	1.39	1.02
1:B:659:ARG:HD2	1:C:535:ILE:HD12	1.39	1.01
1:A:440:ASP:HA	1:A:472:LYS:HE2	1.40	1.01
1:C:482:LEU:HD23	1:C:526:MET:HE3	1.37	1.01
1:D:440:ASP:HA	1:D:472:LYS:HE2	1.40	1.01
1:E:283:MET:HE1	1:E:287:LEU:HD22	1.44	0.99
1:A:283:MET:HE1	1:A:287:LEU:HD22	1.44	0.98
1:F:496:PRO:HD2	1:F:766:LEU:HD22	1.45	0.98
1:D:283:MET:HE1	1:D:287:LEU:HD22	1.44	0.98
1:B:283:MET:HE1	1:B:287:LEU:HD22	1.44	0.98
1:D:496:PRO:HD2	1:D:766:LEU:HD22	1.45	0.97
1:A:496:PRO:HD2	1:A:766:LEU:HD22	1.45	0.97
1:C:283:MET:HE1	1:C:287:LEU:HD22	1.44	0.97
1:A:515:LYS:HD3	1:F:583:GLU:HG3	1.46	0.96
1:F:283:MET:HE1	1:F:287:LEU:HD22	1.44	0.96
1:E:491:ILE:HD13	1:E:512:ILE:HD13	1.47	0.96
1:A:491:ILE:HD13	1:A:512:ILE:HD13	1.47	0.96
1:B:491:ILE:HD13	1:B:512:ILE:HD13	1.47	0.96
1:C:496:PRO:HD2	1:C:766:LEU:HD22	1.45	0.96
1:D:491:ILE:HD13	1:D:512:ILE:HD13	1.47	0.96
1:B:496:PRO:HD2	1:B:766:LEU:HD22	1.45	0.95
1:E:496:PRO:HD2	1:E:766:LEU:HD22	1.45	0.95
1:F:491:ILE:HD13	1:F:512:ILE:HD13	1.47	0.94
1:C:491:ILE:HD13	1:C:512:ILE:HD13	1.47	0.93
1:C:646:SER:HG	1:C:649:THR:HG1	1.02	0.93
1:B:1130:ARG:HB2	1:B:1171:ASN:HB3	1.52	0.92
1:F:1130:ARG:HB2	1:F:1171:ASN:HB3	1.52	0.92
1:C:1130:ARG:HB2	1:C:1171:ASN:HB3	1.52	0.92
1:E:1130:ARG:HB2	1:E:1171:ASN:HB3	1.52	0.92
1:B:302:GLY:HA2	1:B:410:ILE:O	1.71	0.91
1:D:302:GLY:HA2	1:D:410:ILE:O	1.71	0.91
1:C:302:GLY:HA2	1:C:410:ILE:O	1.71	0.90
1:E:302:GLY:HA2	1:E:410:ILE:O	1.71	0.90
1:A:579:ASP:H	1:B:764:ARG:HG2	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:302:GLY:HA2	1:F:410:ILE:O	1.71	0.89
1:A:1130:ARG:HB2	1:A:1171:ASN:HB3	1.52	0.89
1:A:302:GLY:HA2	1:A:410:ILE:O	1.71	0.89
1:D:1130:ARG:HB2	1:D:1171:ASN:HB3	1.52	0.89
1:D:474:TYR:HB3	1:D:478:ASP:HB2	1.55	0.89
1:A:474:TYR:HB3	1:A:478:ASP:HB2	1.55	0.89
1:C:474:TYR:HB3	1:C:478:ASP:HB2	1.55	0.89
1:F:395:LEU:HD13	1:F:424:LEU:HD11	1.54	0.88
1:B:395:LEU:HD13	1:B:424:LEU:HD11	1.54	0.88
1:B:371:ASP:HA	1:B:413:ALA:HB3	1.56	0.88
1:B:474:TYR:HB3	1:B:478:ASP:HB2	1.55	0.88
1:E:371:ASP:HA	1:E:413:ALA:HB3	1.56	0.88
1:C:545:LEU:HB3	1:C:549:LEU:HD12	1.56	0.87
1:F:371:ASP:HA	1:F:413:ALA:HB3	1.56	0.87
1:E:474:TYR:HB3	1:E:478:ASP:HB2	1.55	0.87
1:F:545:LEU:HB3	1:F:549:LEU:HD12	1.56	0.87
1:B:301:ARG:HH22	1:C:258:GLY:H	1.22	0.87
1:E:395:LEU:HD13	1:E:424:LEU:HD11	1.54	0.87
1:A:371:ASP:HA	1:A:413:ALA:HB3	1.56	0.87
1:C:371:ASP:HA	1:C:413:ALA:HB3	1.56	0.87
1:D:545:LEU:HB3	1:D:549:LEU:HD12	1.56	0.87
1:D:371:ASP:HA	1:D:413:ALA:HB3	1.56	0.87
1:E:604:ARG:HA	1:E:701:PHE:HB3	1.57	0.86
1:F:474:TYR:HB3	1:F:478:ASP:HB2	1.55	0.86
1:C:604:ARG:HA	1:C:701:PHE:HB3	1.56	0.86
1:A:395:LEU:HD13	1:A:424:LEU:HD11	1.54	0.86
1:B:604:ARG:HA	1:B:701:PHE:HB3	1.56	0.86
1:C:395:LEU:HD13	1:C:424:LEU:HD11	1.54	0.86
1:B:689:MET:HA	1:B:692:ARG:HB2	1.58	0.85
1:D:395:LEU:HD13	1:D:424:LEU:HD11	1.54	0.85
1:E:545:LEU:HB3	1:E:549:LEU:HD12	1.56	0.85
1:F:604:ARG:HA	1:F:701:PHE:HB3	1.57	0.85
1:A:545:LEU:HB3	1:A:549:LEU:HD12	1.56	0.85
1:B:545:LEU:HB3	1:B:549:LEU:HD12	1.56	0.85
1:D:689:MET:HA	1:D:692:ARG:HB2	1.59	0.85
1:A:689:MET:HA	1:A:692:ARG:HB2	1.58	0.85
1:C:689:MET:HA	1:C:692:ARG:HB2	1.58	0.85
1:B:579:ASP:OD2	1:C:515:LYS:NZ	2.10	0.84
1:E:689:MET:HA	1:E:692:ARG:HB2	1.59	0.84
1:D:604:ARG:HA	1:D:701:PHE:HB3	1.56	0.84
1:F:689:MET:HA	1:F:692:ARG:HB2	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:541:LEU:HD11	1:F:549:LEU:HD12	1.60	0.84
1:A:541:LEU:HD11	1:A:549:LEU:HD12	1.60	0.84
1:A:604:ARG:HA	1:A:701:PHE:HB3	1.56	0.83
1:C:541:LEU:HD11	1:C:549:LEU:HD12	1.60	0.83
1:D:541:LEU:HD11	1:D:549:LEU:HD12	1.60	0.83
1:E:333:PHE:HB3	1:E:369:PHE:HE2	1.44	0.83
1:F:333:PHE:HB3	1:F:369:PHE:HE2	1.44	0.83
1:B:329:LYS:HA	1:B:330:LYS:HD3	1.60	0.83
1:C:546:LYS:HB3	1:C:550:ASN:HD21	1.43	0.83
1:F:638:THR:HA	1:F:641:GLN:HB2	1.61	0.83
1:A:1132:THR:HA	1:A:1135:LYS:HD3	1.61	0.82
1:B:333:PHE:HB3	1:B:369:PHE:HE2	1.44	0.82
1:C:723:LYS:NZ	1:D:1183:GLU:OE2	2.11	0.82
1:F:546:LYS:HB3	1:F:550:ASN:HD21	1.44	0.82
1:E:546:LYS:HB3	1:E:550:ASN:HD21	1.44	0.82
1:B:296:ASN:OD1	1:C:454:ASN:HB3	1.79	0.82
1:D:638:THR:HA	1:D:641:GLN:HB2	1.61	0.82
1:A:546:LYS:HB3	1:A:550:ASN:HD21	1.44	0.82
1:D:1132:THR:HA	1:D:1135:LYS:HD3	1.61	0.82
1:E:1132:THR:HA	1:E:1135:LYS:HD3	1.61	0.82
1:A:638:THR:HA	1:A:641:GLN:HB2	1.61	0.82
1:C:333:PHE:HB3	1:C:369:PHE:HE2	1.44	0.82
1:C:638:THR:HA	1:C:641:GLN:HB2	1.61	0.82
1:D:546:LYS:HB3	1:D:550:ASN:HD21	1.44	0.82
1:D:329:LYS:HA	1:D:330:LYS:HD3	1.60	0.82
1:B:1132:THR:HA	1:B:1135:LYS:HD3	1.61	0.82
1:C:1132:THR:HA	1:C:1135:LYS:HD3	1.61	0.82
1:E:329:LYS:HA	1:E:330:LYS:HD3	1.60	0.82
1:E:314:THR:OG1	1:E:371:ASP:OD1	1.98	0.81
1:B:546:LYS:HB3	1:B:550:ASN:HD21	1.43	0.81
1:F:265:PHE:HA	1:F:319:ALA:HB1	1.62	0.81
1:F:1132:THR:HA	1:F:1135:LYS:HD3	1.61	0.81
1:A:329:LYS:HA	1:A:330:LYS:HD3	1.60	0.81
1:B:541:LEU:HD11	1:B:549:LEU:HD12	1.60	0.81
1:C:329:LYS:HA	1:C:330:LYS:HD3	1.60	0.81
1:F:329:LYS:HA	1:F:330:LYS:HD3	1.60	0.81
1:C:265:PHE:HA	1:C:319:ALA:HB1	1.62	0.81
1:E:541:LEU:HD11	1:E:549:LEU:HD12	1.60	0.81
1:A:333:PHE:HB3	1:A:369:PHE:HE2	1.44	0.81
1:A:265:PHE:HA	1:A:319:ALA:HB1	1.62	0.81
1:C:314:THR:OG1	1:C:371:ASP:OD1	1.98	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:314:THR:OG1	1:B:371:ASP:OD1	1.98	0.81
1:D:265:PHE:HA	1:D:319:ALA:HB1	1.62	0.81
1:F:329:LYS:HG2	1:F:330:LYS:HE2	1.63	0.81
1:A:314:THR:OG1	1:A:371:ASP:OD1	1.98	0.80
1:C:329:LYS:HG2	1:C:330:LYS:HE2	1.63	0.80
1:D:423:ALA:HA	1:D:426:ARG:HD3	1.63	0.80
1:B:265:PHE:HA	1:B:319:ALA:HB1	1.62	0.80
1:C:423:ALA:HA	1:C:426:ARG:HD3	1.63	0.80
1:E:638:THR:HA	1:E:641:GLN:HB2	1.61	0.80
1:F:314:THR:OG1	1:F:371:ASP:OD1	1.98	0.80
1:A:423:ALA:HA	1:A:426:ARG:HD3	1.63	0.80
1:B:329:LYS:HG2	1:B:330:LYS:HE2	1.63	0.80
1:A:359:GLU:O	1:A:363:THR:OG1	2.00	0.80
1:D:359:GLU:O	1:D:363:THR:OG1	2.00	0.80
1:E:329:LYS:HG2	1:E:330:LYS:HE2	1.63	0.80
1:E:423:ALA:HA	1:E:426:ARG:HD3	1.64	0.80
1:B:638:THR:HA	1:B:641:GLN:HB2	1.61	0.80
1:B:423:ALA:HA	1:B:426:ARG:HD3	1.63	0.79
1:D:314:THR:OG1	1:D:371:ASP:OD1	1.98	0.79
1:D:333:PHE:HB3	1:D:369:PHE:HE2	1.44	0.79
1:E:265:PHE:HA	1:E:319:ALA:HB1	1.62	0.79
1:F:423:ALA:HA	1:F:426:ARG:HD3	1.64	0.79
1:A:329:LYS:HG2	1:A:330:LYS:HE2	1.63	0.79
1:D:329:LYS:HG2	1:D:330:LYS:HE2	1.63	0.79
1:B:359:GLU:O	1:B:363:THR:OG1	2.00	0.78
1:B:599:ARG:HB3	1:C:1159:GLN:OE1	1.83	0.78
1:C:359:GLU:O	1:C:363:THR:OG1	2.00	0.78
1:F:359:GLU:O	1:F:363:THR:OG1	2.00	0.78
1:F:399:MET:HG3	1:F:429:ARG:HG3	1.65	0.78
1:C:399:MET:HG3	1:C:429:ARG:HG3	1.65	0.78
1:E:359:GLU:O	1:E:363:THR:OG1	2.00	0.78
1:A:497:GLN:HG2	1:A:766:LEU:HD23	1.66	0.78
1:D:497:GLN:HG2	1:D:766:LEU:HD23	1.66	0.77
1:A:399:MET:HG3	1:A:429:ARG:HG3	1.65	0.77
1:D:399:MET:HG3	1:D:429:ARG:HG3	1.65	0.77
1:B:497:GLN:HG2	1:B:766:LEU:HD23	1.66	0.77
1:E:399:MET:HG3	1:E:429:ARG:HG3	1.65	0.77
1:B:399:MET:HG3	1:B:429:ARG:HG3	1.65	0.77
1:D:646:SER:OG	1:D:649:THR:OG1	2.03	0.77
1:A:648:GLU:HA	1:A:651:ILE:HD12	1.67	0.77
1:A:604:ARG:HE	1:A:720:PHE:HA	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:604:ARG:HE	1:D:720:PHE:HA	1.50	0.76
1:B:285:PRO:HG3	1:B:299:PRO:HB2	1.66	0.76
1:A:1179:ARG:HA	1:A:1182:LYS:HD2	1.67	0.76
1:C:648:GLU:HA	1:C:651:ILE:HD12	1.67	0.76
1:D:648:GLU:HA	1:D:651:ILE:HD12	1.68	0.76
1:E:497:GLN:HG2	1:E:766:LEU:HD23	1.66	0.76
1:E:604:ARG:HE	1:E:720:PHE:HA	1.50	0.76
1:F:648:GLU:HA	1:F:651:ILE:HD12	1.67	0.76
1:A:466:MET:HG3	1:A:467:LEU:HD12	1.68	0.76
1:D:466:MET:HG3	1:D:467:LEU:HD12	1.68	0.76
1:E:285:PRO:HG3	1:E:299:PRO:HB2	1.66	0.76
1:B:604:ARG:HE	1:B:720:PHE:HA	1.50	0.76
1:A:520:VAL:HB	1:F:589:GLN:HE21	1.51	0.76
1:C:466:MET:HG3	1:C:467:LEU:HD12	1.68	0.76
1:A:517:LYS:HD2	1:F:583:GLU:HG2	1.67	0.76
1:F:466:MET:HG3	1:F:467:LEU:HD12	1.68	0.76
1:A:285:PRO:HG3	1:A:299:PRO:HB2	1.66	0.76
1:D:285:PRO:HG3	1:D:299:PRO:HB2	1.66	0.76
1:F:497:GLN:HG2	1:F:766:LEU:HD23	1.66	0.76
1:C:285:PRO:HG3	1:C:299:PRO:HB2	1.66	0.76
1:C:497:GLN:HG2	1:C:766:LEU:HD23	1.66	0.76
1:D:1179:ARG:HA	1:D:1182:LYS:HD2	1.67	0.76
1:F:285:PRO:HG3	1:F:299:PRO:HB2	1.66	0.75
1:A:482:LEU:HD22	1:A:523:MET:HE1	1.69	0.75
1:E:482:LEU:HD22	1:E:523:MET:HE1	1.69	0.75
1:E:648:GLU:HA	1:E:651:ILE:HD12	1.68	0.75
1:B:1179:ARG:HA	1:B:1182:LYS:HD2	1.67	0.75
1:E:527:ILE:O	1:E:532:ARG:NH1	2.20	0.75
1:E:636:MET:HA	1:E:639:LEU:HB2	1.69	0.75
1:F:482:LEU:HD22	1:F:523:MET:HE1	1.69	0.75
1:F:636:MET:HA	1:F:639:LEU:HB2	1.69	0.75
1:B:482:LEU:HD22	1:B:523:MET:HE1	1.69	0.75
1:B:636:MET:HA	1:B:639:LEU:HB2	1.69	0.75
1:B:648:GLU:HA	1:B:651:ILE:HD12	1.68	0.75
1:B:466:MET:HG3	1:B:467:LEU:HD12	1.68	0.75
1:B:527:ILE:O	1:B:532:ARG:NH1	2.20	0.75
1:D:527:ILE:O	1:D:532:ARG:NH1	2.20	0.75
1:D:723:LYS:HZ2	1:E:1186:ILE:HD11	1.52	0.75
1:E:466:MET:HG3	1:E:467:LEU:HD12	1.68	0.75
1:B:543:PRO:HA	1:B:546:LYS:HD2	1.69	0.74
1:C:604:ARG:HE	1:C:720:PHE:HA	1.50	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:604:ARG:HE	1:F:720:PHE:HA	1.50	0.74
1:F:1179:ARG:HA	1:F:1182:LYS:HD2	1.67	0.74
1:C:1179:ARG:HA	1:C:1182:LYS:HD2	1.67	0.74
1:D:543:PRO:HA	1:D:546:LYS:HD2	1.69	0.74
1:E:694:ASP:OD1	1:E:696:SER:OG	2.05	0.74
1:E:1179:ARG:HA	1:E:1182:LYS:HD2	1.67	0.74
1:C:527:ILE:O	1:C:532:ARG:NH1	2.20	0.74
1:E:646:SER:OG	1:E:649:THR:OG1	2.03	0.74
1:A:543:PRO:HA	1:A:546:LYS:HD2	1.69	0.74
1:F:548:LEU:HD21	1:F:740:PHE:HB2	1.69	0.74
1:C:543:PRO:HA	1:C:546:LYS:HD2	1.69	0.74
1:B:723:LYS:NZ	1:C:1186:ILE:HD11	2.02	0.74
1:C:548:LEU:HD21	1:C:740:PHE:HB2	1.69	0.74
1:A:527:ILE:O	1:A:532:ARG:NH1	2.20	0.73
1:B:548:LEU:HD21	1:B:740:PHE:HB2	1.69	0.73
1:B:663:PRO:HG3	1:B:698:GLN:HE21	1.54	0.73
1:F:527:ILE:O	1:F:532:ARG:NH1	2.20	0.73
1:C:482:LEU:HD22	1:C:523:MET:HE1	1.69	0.73
1:D:482:LEU:HD22	1:D:523:MET:HE1	1.69	0.73
1:D:636:MET:HA	1:D:639:LEU:HB2	1.69	0.73
1:D:663:PRO:HG3	1:D:698:GLN:HE21	1.54	0.73
1:F:574:GLU:HA	1:F:577:MET:HE2	1.71	0.73
1:E:543:PRO:HA	1:E:546:LYS:HD2	1.69	0.73
1:E:604:ARG:HB2	1:E:701:PHE:HD2	1.54	0.73
1:F:543:PRO:HA	1:F:546:LYS:HD2	1.69	0.73
1:C:636:MET:HA	1:C:639:LEU:HB2	1.69	0.73
1:E:548:LEU:HD21	1:E:740:PHE:HB2	1.69	0.73
1:A:515:LYS:HG2	1:A:517:LYS:H	1.53	0.73
1:C:604:ARG:HB2	1:C:701:PHE:HD2	1.53	0.73
1:F:663:PRO:HG3	1:F:698:GLN:HE21	1.54	0.73
1:A:353:LEU:HD13	1:A:398:LEU:HD11	1.71	0.73
1:A:636:MET:HA	1:A:639:LEU:HB2	1.69	0.73
1:C:574:GLU:HA	1:C:577:MET:HE2	1.71	0.73
1:D:515:LYS:HG2	1:D:517:LYS:H	1.53	0.73
1:D:548:LEU:HD21	1:D:740:PHE:HB2	1.69	0.73
1:D:353:LEU:HD13	1:D:398:LEU:HD11	1.71	0.73
1:D:652:ILE:O	1:D:656:LEU:HB2	1.89	0.73
1:D:694:ASP:OD1	1:D:696:SER:OG	2.05	0.73
1:A:579:ASP:H	1:B:764:ARG:CG	2.01	0.72
1:C:694:ASP:OD1	1:C:696:SER:OG	2.05	0.72
1:E:652:ILE:O	1:E:656:LEU:HB2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:663:PRO:HG3	1:E:698:GLN:HE21	1.54	0.72
1:D:574:GLU:HA	1:D:577:MET:HE2	1.71	0.72
1:A:548:LEU:HD21	1:A:740:PHE:HB2	1.69	0.72
1:B:646:SER:OG	1:B:649:THR:OG1	2.03	0.72
1:F:515:LYS:HG2	1:F:517:LYS:H	1.53	0.72
1:F:605:PHE:N	1:F:701:PHE:O	2.22	0.72
1:A:663:PRO:HG3	1:A:698:GLN:HE21	1.54	0.72
1:B:604:ARG:HB2	1:B:701:PHE:HD2	1.53	0.72
1:F:694:ASP:OD1	1:F:696:SER:OG	2.05	0.72
1:A:652:ILE:O	1:A:656:LEU:HB2	1.89	0.72
1:C:515:LYS:HG2	1:C:517:LYS:H	1.53	0.72
1:D:602:LYS:HG2	1:D:695:PHE:HA	1.72	0.72
1:A:605:PHE:N	1:A:701:PHE:O	2.23	0.72
1:B:574:GLU:HA	1:B:577:MET:HE2	1.71	0.72
1:B:605:PHE:N	1:B:701:PHE:O	2.22	0.72
1:A:602:LYS:HG2	1:A:695:PHE:HA	1.72	0.72
1:C:602:LYS:HG2	1:C:695:PHE:HA	1.72	0.72
1:C:663:PRO:HG3	1:C:698:GLN:HE21	1.53	0.72
1:A:602:LYS:HE2	1:A:695:PHE:HB3	1.72	0.72
1:A:604:ARG:HB2	1:A:701:PHE:HD2	1.54	0.72
1:B:515:LYS:HG2	1:B:517:LYS:H	1.53	0.72
1:B:602:LYS:HG2	1:B:695:PHE:HA	1.72	0.72
1:D:602:LYS:HE2	1:D:695:PHE:HB3	1.72	0.72
1:F:602:LYS:HG2	1:F:695:PHE:HA	1.72	0.72
1:F:604:ARG:HB2	1:F:701:PHE:HD2	1.53	0.72
1:A:574:GLU:HA	1:A:577:MET:HE2	1.71	0.72
1:B:652:ILE:O	1:B:656:LEU:HB2	1.89	0.72
1:C:605:PHE:N	1:C:701:PHE:O	2.22	0.72
1:E:574:GLU:HA	1:E:577:MET:HE2	1.71	0.72
1:A:764:ARG:HG2	1:F:579:ASP:H	1.54	0.71
1:B:602:LYS:HE2	1:B:695:PHE:HB3	1.72	0.71
1:A:727:TYR:HE2	1:A:729:LEU:HD12	1.55	0.71
1:C:652:ILE:O	1:C:656:LEU:HB2	1.89	0.71
1:D:604:ARG:HB2	1:D:701:PHE:HD2	1.53	0.71
1:E:286:LEU:HD21	1:E:365:PRO:HB3	1.72	0.71
1:E:602:LYS:HG2	1:E:695:PHE:HA	1.72	0.71
1:F:652:ILE:O	1:F:656:LEU:HB2	1.89	0.71
1:C:286:LEU:HD21	1:C:365:PRO:HB3	1.72	0.71
1:D:605:PHE:N	1:D:701:PHE:O	2.22	0.71
1:F:286:LEU:HD21	1:F:365:PRO:HB3	1.72	0.71
1:B:286:LEU:HD21	1:B:365:PRO:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:605:PHE:N	1:E:701:PHE:O	2.22	0.71
1:F:506:GLN:NE2	1:F:770:PRO:O	2.24	0.71
1:B:271:LEU:HD21	1:B:437:PRO:HD2	1.73	0.71
1:D:506:GLN:NE2	1:D:770:PRO:O	2.24	0.71
1:E:271:LEU:HD21	1:E:437:PRO:HD2	1.73	0.71
1:C:602:LYS:HE2	1:C:695:PHE:HB3	1.72	0.71
1:A:271:LEU:HD21	1:A:437:PRO:HD2	1.73	0.71
1:B:694:ASP:OD1	1:B:696:SER:OG	2.05	0.71
1:E:280:GLU:OE1	1:F:492:LYS:HD3	1.91	0.71
1:B:593:GLU:O	1:B:597:THR:OG1	2.05	0.71
1:C:579:ASP:O	1:D:762:LYS:HB2	1.91	0.71
1:D:286:LEU:HD21	1:D:365:PRO:HB3	1.72	0.71
1:D:271:LEU:HD21	1:D:437:PRO:HD2	1.73	0.71
1:C:506:GLN:NE2	1:C:770:PRO:O	2.24	0.71
1:E:506:GLN:NE2	1:E:770:PRO:O	2.24	0.71
1:E:515:LYS:HG2	1:E:517:LYS:H	1.53	0.71
1:A:286:LEU:HD21	1:A:365:PRO:HB3	1.72	0.70
1:C:759:ILE:HB	1:C:761:ARG:HH22	1.56	0.70
1:D:759:ILE:HB	1:D:761:ARG:HH22	1.56	0.70
1:F:602:LYS:HE2	1:F:695:PHE:HB3	1.72	0.70
1:C:353:LEU:HD13	1:C:398:LEU:HD11	1.71	0.70
1:E:353:LEU:HD13	1:E:398:LEU:HD11	1.71	0.70
1:E:602:LYS:HE2	1:E:695:PHE:HB3	1.72	0.70
1:F:493:ARG:NH1	1:F:518:ASP:OD2	2.25	0.70
1:B:353:LEU:HD13	1:B:398:LEU:HD11	1.71	0.70
1:B:506:GLN:NE2	1:B:770:PRO:O	2.24	0.70
1:B:630:HIS:HB3	1:B:664:SER:HA	1.73	0.70
1:E:759:ILE:HB	1:E:761:ARG:HH22	1.56	0.70
1:F:353:LEU:HD13	1:F:398:LEU:HD11	1.71	0.70
1:A:506:GLN:NE2	1:A:770:PRO:O	2.24	0.70
1:C:727:TYR:HE2	1:C:729:LEU:HD12	1.56	0.70
1:F:727:TYR:HE2	1:F:729:LEU:HD12	1.55	0.70
1:A:493:ARG:NH1	1:A:518:ASP:OD2	2.25	0.70
1:E:493:ARG:NH1	1:E:518:ASP:OD2	2.25	0.70
1:C:465:SER:OG	1:C:468:ALA:HB3	1.92	0.70
1:C:493:ARG:NH1	1:C:518:ASP:OD2	2.25	0.70
1:C:580:ASP:HB3	1:D:761:ARG:HH11	1.55	0.70
1:E:630:HIS:HB3	1:E:664:SER:HA	1.73	0.70
1:F:759:ILE:HB	1:F:761:ARG:HH22	1.56	0.70
1:A:505:LEU:HB2	1:A:771:LEU:HD22	1.74	0.70
1:C:630:HIS:HB3	1:C:664:SER:HA	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:727:TYR:HE2	1:E:729:LEU:HD12	1.56	0.70
1:F:465:SER:OG	1:F:468:ALA:HB3	1.92	0.70
1:F:630:HIS:HB3	1:F:664:SER:HA	1.73	0.70
1:A:759:ILE:HB	1:A:761:ARG:HH22	1.56	0.70
1:D:493:ARG:NH1	1:D:518:ASP:OD2	2.25	0.70
1:A:659:ARG:HH11	1:B:535:ILE:HD12	1.56	0.70
1:B:493:ARG:NH1	1:B:518:ASP:OD2	2.25	0.70
1:B:727:TYR:HE2	1:B:729:LEU:HD12	1.55	0.70
1:B:759:ILE:HB	1:B:761:ARG:HH22	1.56	0.70
1:D:727:TYR:HE2	1:D:729:LEU:HD12	1.56	0.70
1:F:271:LEU:HD21	1:F:437:PRO:HD2	1.73	0.70
1:A:593:GLU:O	1:A:597:THR:OG1	2.05	0.69
1:C:593:GLU:O	1:C:597:THR:OG1	2.05	0.69
1:E:652:ILE:CD1	1:F:641:GLN:HA	2.22	0.69
1:A:301:ARG:O	1:A:405:ARG:NH1	2.25	0.69
1:B:465:SER:OG	1:B:468:ALA:HB3	1.92	0.69
1:C:301:ARG:O	1:C:405:ARG:NH1	2.25	0.69
1:D:298:GLN:N	1:D:298:GLN:OE1	2.24	0.69
1:D:301:ARG:O	1:D:405:ARG:NH1	2.25	0.69
1:D:505:LEU:HB2	1:D:771:LEU:HD22	1.74	0.69
1:E:465:SER:OG	1:E:468:ALA:HB3	1.92	0.69
1:C:271:LEU:HD21	1:C:437:PRO:HD2	1.73	0.69
1:C:298:GLN:OE1	1:C:298:GLN:N	2.24	0.69
1:A:630:HIS:HB3	1:A:664:SER:HA	1.73	0.69
1:D:497:GLN:HE21	1:D:766:LEU:HD23	1.58	0.69
1:A:497:GLN:HE21	1:A:766:LEU:HD23	1.58	0.69
1:D:465:SER:OG	1:D:468:ALA:HB3	1.92	0.69
1:E:593:GLU:O	1:E:597:THR:OG1	2.05	0.69
1:A:507:ILE:HD11	1:F:294:ARG:NH2	2.08	0.69
1:F:301:ARG:O	1:F:405:ARG:NH1	2.25	0.69
1:F:355:LEU:HD12	1:F:358:GLU:OE2	1.93	0.69
1:A:745:LEU:O	1:A:749:LYS:NZ	2.24	0.69
1:D:630:HIS:HB3	1:D:664:SER:HA	1.73	0.69
1:E:497:GLN:HE21	1:E:766:LEU:HD23	1.58	0.69
1:F:593:GLU:O	1:F:597:THR:OG1	2.05	0.69
1:A:355:LEU:HD12	1:A:358:GLU:OE2	1.93	0.69
1:A:439:PRO:HB3	1:A:443:ALA:HB1	1.75	0.69
1:A:577:MET:O	1:B:764:ARG:HB2	1.92	0.69
1:B:745:LEU:O	1:B:749:LYS:NZ	2.24	0.69
1:C:439:PRO:HB3	1:C:443:ALA:HB1	1.75	0.69
1:C:542:SER:OG	1:C:545:LEU:HG	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:596:GLU:H	1:C:599:ARG:HD3	1.58	0.69
1:C:718:GLU:N	1:C:718:GLU:OE2	2.26	0.69
1:D:355:LEU:HD12	1:D:358:GLU:OE2	1.93	0.69
1:E:301:ARG:O	1:E:405:ARG:NH1	2.25	0.69
1:F:298:GLN:OE1	1:F:298:GLN:N	2.24	0.69
1:F:439:PRO:HB3	1:F:443:ALA:HB1	1.75	0.69
1:C:355:LEU:HD12	1:C:358:GLU:OE2	1.93	0.69
1:D:542:SER:OG	1:D:545:LEU:HG	1.93	0.69
1:D:596:GLU:H	1:D:599:ARG:HD3	1.58	0.69
1:A:465:SER:OG	1:A:468:ALA:HB3	1.92	0.69
1:A:542:SER:OG	1:A:545:LEU:HG	1.93	0.69
1:B:301:ARG:O	1:B:405:ARG:NH1	2.25	0.69
1:B:355:LEU:HD12	1:B:358:GLU:OE2	1.93	0.69
1:E:745:LEU:O	1:E:749:LYS:NZ	2.25	0.69
1:F:542:SER:OG	1:F:545:LEU:HG	1.93	0.69
1:F:718:GLU:N	1:F:718:GLU:OE2	2.26	0.69
1:A:596:GLU:H	1:A:599:ARG:HD3	1.58	0.68
1:B:439:PRO:HB3	1:B:443:ALA:HB1	1.75	0.68
1:C:505:LEU:HB2	1:C:771:LEU:HD22	1.74	0.68
1:D:439:PRO:HB3	1:D:443:ALA:HB1	1.75	0.68
1:F:505:LEU:HB2	1:F:771:LEU:HD22	1.74	0.68
1:A:286:LEU:CD2	1:A:365:PRO:HB3	2.23	0.68
1:C:286:LEU:CD2	1:C:365:PRO:HB3	2.23	0.68
1:D:745:LEU:O	1:D:749:LYS:NZ	2.24	0.68
1:E:286:LEU:CD2	1:E:365:PRO:HB3	2.23	0.68
1:E:298:GLN:OE1	1:E:298:GLN:N	2.24	0.68
1:E:389:ALA:HB1	1:F:339:ALA:HB3	1.75	0.68
1:A:648:GLU:OE1	1:A:685:THR:OG1	2.08	0.68
1:B:505:LEU:HB2	1:B:771:LEU:HD22	1.74	0.68
1:B:648:GLU:OE1	1:B:685:THR:OG1	2.08	0.68
1:D:337:LYS:HA	1:D:371:ASP:HB3	1.76	0.68
1:F:610:ARG:NH1	1:F:706:SER:O	2.26	0.68
1:A:298:GLN:N	1:A:298:GLN:OE1	2.24	0.68
1:A:337:LYS:HA	1:A:371:ASP:HB3	1.76	0.68
1:A:610:ARG:NH1	1:A:706:SER:O	2.26	0.68
1:B:337:LYS:HA	1:B:371:ASP:HB3	1.76	0.68
1:B:610:ARG:NH1	1:B:706:SER:O	2.26	0.68
1:F:1175:ASP:HA	1:F:1178:GLU:CD	2.19	0.68
1:D:610:ARG:NH1	1:D:706:SER:O	2.26	0.68
1:F:672:ASP:OD2	1:F:706:SER:N	2.27	0.68
1:B:672:ASP:OD2	1:B:706:SER:N	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1175:ASP:HA	1:E:1178:GLU:CD	2.19	0.68
1:F:286:LEU:CD2	1:F:365:PRO:HB3	2.23	0.68
1:A:718:GLU:N	1:A:718:GLU:OE2	2.26	0.68
1:B:542:SER:OG	1:B:545:LEU:HG	1.93	0.68
1:C:497:GLN:HE21	1:C:766:LEU:HD23	1.58	0.68
1:C:741:PHE:HB3	1:C:744:ILE:HD11	1.76	0.68
1:D:1175:ASP:HA	1:D:1178:GLU:CD	2.19	0.68
1:E:337:LYS:HA	1:E:371:ASP:HB3	1.76	0.68
1:E:347:GLY:HA2	1:E:350:GLU:HB2	1.76	0.68
1:E:596:GLU:H	1:E:599:ARG:HD3	1.58	0.68
1:E:610:ARG:NH1	1:E:706:SER:O	2.26	0.68
1:F:734:ARG:HA	1:F:737:ILE:HD12	1.76	0.68
1:F:741:PHE:HB3	1:F:744:ILE:HD11	1.76	0.68
1:A:1175:ASP:HA	1:A:1178:GLU:CD	2.19	0.68
1:E:505:LEU:HB2	1:E:771:LEU:HD22	1.74	0.68
1:F:497:GLN:HE21	1:F:766:LEU:HD23	1.58	0.68
1:B:347:GLY:HA2	1:B:350:GLU:HB2	1.76	0.68
1:B:497:GLN:HE21	1:B:766:LEU:HD23	1.58	0.68
1:B:596:GLU:H	1:B:599:ARG:HD3	1.58	0.68
1:F:596:GLU:H	1:F:599:ARG:HD3	1.58	0.68
1:A:560:LEU:O	1:A:564:MET:N	2.28	0.67
1:B:606:LEU:HD12	1:B:607:ILE:H	1.59	0.67
1:B:734:ARG:HA	1:B:737:ILE:HD12	1.76	0.67
1:C:610:ARG:NH1	1:C:706:SER:O	2.26	0.67
1:D:741:PHE:HB3	1:D:744:ILE:HD11	1.76	0.67
1:B:276:ASN:HA	1:B:279:LYS:HG2	1.76	0.67
1:B:560:LEU:O	1:B:564:MET:N	2.28	0.67
1:D:593:GLU:O	1:D:597:THR:OG1	2.05	0.67
1:E:355:LEU:HD12	1:E:358:GLU:OE2	1.93	0.67
1:E:464:CYS:HA	1:E:466:MET:H	1.59	0.67
1:E:734:ARG:HA	1:E:737:ILE:HD12	1.76	0.67
1:F:464:CYS:HA	1:F:466:MET:H	1.60	0.67
1:F:745:LEU:O	1:F:749:LYS:NZ	2.24	0.67
1:A:468:ALA:HA	1:A:471:SER:OG	1.95	0.67
1:A:517:LYS:HB2	1:F:583:GLU:CG	2.24	0.67
1:A:672:ASP:OD2	1:A:706:SER:N	2.27	0.67
1:D:286:LEU:CD2	1:D:365:PRO:HB3	2.23	0.67
1:D:468:ALA:HA	1:D:471:SER:OG	1.95	0.67
1:D:672:ASP:OD2	1:D:706:SER:N	2.27	0.67
1:E:439:PRO:HB3	1:E:443:ALA:HB1	1.75	0.67
1:A:741:PHE:HB3	1:A:744:ILE:HD11	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:464:CYS:HA	1:C:466:MET:H	1.60	0.67
1:C:1175:ASP:HA	1:C:1178:GLU:CD	2.19	0.67
1:E:542:SER:OG	1:E:545:LEU:HG	1.93	0.67
1:E:606:LEU:HD12	1:E:607:ILE:H	1.59	0.67
1:A:694:ASP:OD1	1:A:696:SER:OG	2.05	0.67
1:B:741:PHE:HB3	1:B:744:ILE:HD11	1.76	0.67
1:B:1175:ASP:HA	1:B:1178:GLU:CD	2.19	0.67
1:C:745:LEU:O	1:C:749:LYS:NZ	2.24	0.67
1:E:560:LEU:O	1:E:564:MET:N	2.28	0.67
1:E:590:GLN:HA	1:E:593:GLU:CG	2.24	0.67
1:F:347:GLY:HA2	1:F:350:GLU:HB2	1.76	0.67
1:F:590:GLN:HA	1:F:593:GLU:CG	2.24	0.67
1:B:286:LEU:CD2	1:B:365:PRO:HB3	2.23	0.67
1:B:590:GLN:HA	1:B:593:GLU:CG	2.24	0.67
1:D:648:GLU:OE1	1:D:685:THR:OG1	2.08	0.67
1:F:452:THR:OG1	1:F:461:GLU:OE1	2.08	0.67
1:A:590:GLN:HA	1:A:593:GLU:CG	2.24	0.67
1:C:452:THR:OG1	1:C:461:GLU:OE1	2.08	0.67
1:C:672:ASP:OD2	1:C:706:SER:N	2.27	0.67
1:C:337:LYS:HA	1:C:371:ASP:HB3	1.75	0.67
1:C:590:GLN:HA	1:C:593:GLU:CG	2.24	0.67
1:D:590:GLN:HA	1:D:593:GLU:CG	2.24	0.67
1:E:276:ASN:HA	1:E:279:LYS:HG2	1.77	0.67
1:E:468:ALA:HA	1:E:471:SER:OG	1.95	0.67
1:E:672:ASP:OD2	1:E:706:SER:N	2.27	0.67
1:E:757:GLY:HA3	1:E:1165:LYS:HD2	1.77	0.67
1:F:337:LYS:HA	1:F:371:ASP:HB3	1.75	0.67
1:A:347:GLY:HA2	1:A:350:GLU:HB2	1.76	0.67
1:A:1130:ARG:NH2	1:A:1170:ARG:O	2.28	0.67
1:F:606:LEU:HD12	1:F:607:ILE:H	1.59	0.67
1:F:1134:LEU:HD11	1:F:1178:GLU:HB3	1.77	0.67
1:C:276:ASN:HA	1:C:279:LYS:HG2	1.77	0.66
1:E:718:GLU:N	1:E:718:GLU:OE2	2.26	0.66
1:E:741:PHE:HB3	1:E:744:ILE:HD11	1.76	0.66
1:F:358:GLU:HA	1:F:361:LYS:HG3	1.78	0.66
1:F:605:PHE:HZ	1:F:727:TYR:HB2	1.60	0.66
1:B:468:ALA:HA	1:B:471:SER:OG	1.95	0.66
1:B:504:ARG:NH2	1:B:505:LEU:O	2.29	0.66
1:B:757:GLY:HA3	1:B:1165:LYS:HD2	1.77	0.66
1:C:1130:ARG:NH2	1:C:1170:ARG:O	2.28	0.66
1:C:1134:LEU:HD11	1:C:1178:GLU:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:347:GLY:HA2	1:D:350:GLU:HB2	1.76	0.66
1:D:718:GLU:N	1:D:718:GLU:OE2	2.26	0.66
1:F:276:ASN:HA	1:F:279:LYS:HG2	1.77	0.66
1:A:606:LEU:HD12	1:A:607:ILE:H	1.59	0.66
1:A:734:ARG:HA	1:A:737:ILE:HD12	1.76	0.66
1:C:605:PHE:HZ	1:C:727:TYR:HB2	1.60	0.66
1:D:606:LEU:HD12	1:D:607:ILE:H	1.59	0.66
1:F:468:ALA:HA	1:F:471:SER:OG	1.95	0.66
1:F:504:ARG:NH2	1:F:505:LEU:O	2.29	0.66
1:F:1130:ARG:NH2	1:F:1170:ARG:O	2.28	0.66
1:B:718:GLU:N	1:B:718:GLU:OE2	2.26	0.66
1:C:347:GLY:HA2	1:C:350:GLU:HB2	1.76	0.66
1:C:358:GLU:HA	1:C:361:LYS:HG3	1.77	0.66
1:C:468:ALA:HA	1:C:471:SER:OG	1.95	0.66
1:C:482:LEU:HA	1:C:526:MET:HE1	1.77	0.66
1:C:504:ARG:NH2	1:C:505:LEU:O	2.29	0.66
1:D:276:ASN:HA	1:D:279:LYS:HG2	1.77	0.66
1:D:1130:ARG:NH2	1:D:1170:ARG:O	2.28	0.66
1:A:276:ASN:HA	1:A:279:LYS:HG2	1.77	0.66
1:A:734:ARG:HG3	1:A:1139:ILE:HD11	1.78	0.66
1:C:586:PHE:O	1:C:590:GLN:N	2.29	0.66
1:C:681:THR:O	1:C:685:THR:OG1	2.14	0.66
1:D:734:ARG:HG3	1:D:1139:ILE:HD11	1.78	0.66
1:F:482:LEU:HA	1:F:526:MET:HE1	1.77	0.66
1:F:656:LEU:HA	1:F:659:ARG:HB2	1.78	0.66
1:A:482:LEU:HA	1:A:526:MET:HE1	1.77	0.66
1:A:586:PHE:O	1:A:590:GLN:N	2.29	0.66
1:B:587:GLU:HA	1:B:590:GLN:HG2	1.78	0.66
1:B:681:THR:O	1:B:685:THR:OG1	2.14	0.66
1:D:734:ARG:HA	1:D:737:ILE:HD12	1.76	0.66
1:E:681:THR:O	1:E:685:THR:OG1	2.14	0.66
1:F:681:THR:O	1:F:685:THR:OG1	2.14	0.66
1:C:734:ARG:HA	1:C:737:ILE:HD12	1.76	0.66
1:D:504:ARG:NH2	1:D:505:LEU:O	2.29	0.66
1:E:1130:ARG:NH2	1:E:1170:ARG:O	2.28	0.66
1:B:298:GLN:OE1	1:B:298:GLN:N	2.24	0.66
1:B:464:CYS:HA	1:B:466:MET:H	1.60	0.66
1:B:482:LEU:HA	1:B:526:MET:CE	2.26	0.66
1:B:610:ARG:HD2	1:B:708:PRO:HD3	1.78	0.66
1:B:734:ARG:HG3	1:B:1139:ILE:HD11	1.78	0.66
1:B:1130:ARG:NH2	1:B:1170:ARG:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:734:ARG:HG3	1:C:1139:ILE:HD11	1.78	0.66
1:E:482:LEU:HA	1:E:526:MET:HE1	1.77	0.66
1:E:587:GLU:HA	1:E:590:GLN:HG2	1.78	0.66
1:F:586:PHE:O	1:F:590:GLN:N	2.29	0.66
1:A:482:LEU:HA	1:A:526:MET:CE	2.26	0.66
1:A:492:LYS:HB3	1:F:576:VAL:HG21	1.77	0.66
1:A:504:ARG:NH2	1:A:505:LEU:O	2.29	0.66
1:A:605:PHE:HZ	1:A:727:TYR:HB2	1.60	0.66
1:A:1134:LEU:HD11	1:A:1178:GLU:HB3	1.77	0.66
1:C:656:LEU:HA	1:C:659:ARG:HB2	1.78	0.66
1:E:504:ARG:NH2	1:E:505:LEU:O	2.29	0.66
1:E:605:PHE:HZ	1:E:727:TYR:HB2	1.60	0.66
1:B:297:MET:HE1	1:C:455:TRP:CZ3	2.31	0.66
1:F:587:GLU:HA	1:F:590:GLN:HG2	1.78	0.66
1:C:587:GLU:HA	1:C:590:GLN:HG2	1.78	0.65
1:D:272:ASP:HA	1:D:275:ILE:HD12	1.78	0.65
1:D:482:LEU:HA	1:D:526:MET:HE1	1.77	0.65
1:D:586:PHE:O	1:D:590:GLN:N	2.29	0.65
1:E:557:GLU:HA	1:E:560:LEU:CD2	2.27	0.65
1:B:358:GLU:HA	1:B:361:LYS:HG3	1.78	0.65
1:B:557:GLU:HA	1:B:560:LEU:CD2	2.27	0.65
1:B:656:LEU:HA	1:B:659:ARG:HB2	1.78	0.65
1:B:1134:LEU:HD11	1:B:1178:GLU:HB3	1.77	0.65
1:C:485:GLU:OE1	1:C:526:MET:HE2	1.97	0.65
1:D:610:ARG:HD2	1:D:708:PRO:HD3	1.78	0.65
1:A:464:CYS:HA	1:A:466:MET:H	1.59	0.65
1:A:757:GLY:HA3	1:A:1165:LYS:HD2	1.77	0.65
1:D:605:PHE:HZ	1:D:727:TYR:HB2	1.60	0.65
1:E:610:ARG:HD2	1:E:708:PRO:HD3	1.78	0.65
1:F:482:LEU:HA	1:F:526:MET:CE	2.26	0.65
1:F:630:HIS:HB2	1:F:662:THR:HG21	1.78	0.65
1:C:272:ASP:HA	1:C:275:ILE:HD12	1.78	0.65
1:C:630:HIS:HB2	1:C:662:THR:HG21	1.78	0.65
1:D:681:THR:O	1:D:685:THR:OG1	2.14	0.65
1:D:1148:ASP:N	1:D:1148:ASP:OD1	2.30	0.65
1:E:734:ARG:HG3	1:E:1139:ILE:HD11	1.78	0.65
1:E:1134:LEU:HD11	1:E:1178:GLU:HB3	1.77	0.65
1:F:272:ASP:HA	1:F:275:ILE:HD12	1.78	0.65
1:F:557:GLU:HA	1:F:560:LEU:CD2	2.27	0.65
1:A:301:ARG:HG3	1:A:405:ARG:HD2	1.78	0.65
1:B:301:ARG:HG3	1:B:405:ARG:HD2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:485:GLU:OE1	1:B:526:MET:HE2	1.97	0.65
1:C:606:LEU:HD12	1:C:607:ILE:H	1.59	0.65
1:E:298:GLN:HB3	1:F:258:GLY:N	2.11	0.65
1:E:482:LEU:HA	1:E:526:MET:CE	2.26	0.65
1:E:720:PHE:HB3	1:E:725:SER:HB2	1.78	0.65
1:A:543:PRO:HA	1:A:546:LYS:CD	2.27	0.65
1:B:492:LYS:HD2	1:B:498:LEU:HD12	1.79	0.65
1:C:1148:ASP:OD1	1:C:1148:ASP:N	2.30	0.65
1:D:482:LEU:HA	1:D:526:MET:CE	2.26	0.65
1:D:543:PRO:HA	1:D:546:LYS:CD	2.26	0.65
1:E:656:LEU:HA	1:E:659:ARG:HB2	1.78	0.65
1:F:301:ARG:HG3	1:F:405:ARG:HD2	1.78	0.65
1:F:493:ARG:NH2	1:F:513:LYS:O	2.29	0.65
1:F:543:PRO:HA	1:F:546:LYS:CD	2.27	0.65
1:A:272:ASP:HA	1:A:275:ILE:HD12	1.78	0.65
1:A:557:GLU:HA	1:A:560:LEU:CD2	2.27	0.65
1:A:610:ARG:HD2	1:A:708:PRO:HD3	1.78	0.65
1:F:560:LEU:O	1:F:564:MET:N	2.28	0.65
1:A:578:TYR:CD1	1:B:763:ARG:HD2	2.32	0.65
1:B:292:PHE:CD2	1:C:256:PRO:HA	2.31	0.65
1:C:301:ARG:HG3	1:C:405:ARG:HD2	1.78	0.65
1:C:543:PRO:HA	1:C:546:LYS:CD	2.27	0.65
1:D:1134:LEU:HD11	1:D:1178:GLU:HB3	1.77	0.65
1:E:452:THR:OG1	1:E:461:GLU:OE1	2.08	0.65
1:E:543:PRO:HA	1:E:546:LYS:CD	2.27	0.65
1:A:492:LYS:HD2	1:A:498:LEU:HD12	1.79	0.65
1:B:605:PHE:HZ	1:B:727:TYR:HB2	1.60	0.65
1:C:433:GLU:OE2	1:C:434:PHE:N	2.30	0.65
1:D:464:CYS:HA	1:D:466:MET:H	1.60	0.65
1:D:656:LEU:HA	1:D:659:ARG:HB2	1.78	0.65
1:E:358:GLU:HA	1:E:361:LYS:HG3	1.77	0.65
1:E:648:GLU:OE1	1:E:685:THR:OG1	2.08	0.65
1:F:485:GLU:OE1	1:F:526:MET:HE2	1.97	0.65
1:F:516:VAL:HA	1:F:519:PHE:CD2	2.32	0.65
1:F:610:ARG:HD2	1:F:708:PRO:HD3	1.78	0.65
1:A:358:GLU:HA	1:A:361:LYS:HG3	1.77	0.65
1:A:433:GLU:OE2	1:A:434:PHE:N	2.30	0.65
1:A:587:GLU:HA	1:A:590:GLN:HG2	1.78	0.65
1:C:482:LEU:HA	1:C:526:MET:CE	2.26	0.65
1:C:610:ARG:HD2	1:C:708:PRO:HD3	1.78	0.65
1:C:757:GLY:HA3	1:C:1165:LYS:HD2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:301:ARG:HG3	1:D:405:ARG:HD2	1.78	0.65
1:D:485:GLU:OE1	1:D:526:MET:HE2	1.97	0.65
1:E:301:ARG:HG3	1:E:405:ARG:HD2	1.78	0.65
1:E:630:HIS:HB2	1:E:662:THR:HG21	1.78	0.65
1:B:452:THR:OG1	1:B:461:GLU:OE1	2.08	0.64
1:D:492:LYS:HD2	1:D:498:LEU:HD12	1.79	0.64
1:D:557:GLU:HA	1:D:560:LEU:CD2	2.27	0.64
1:D:587:GLU:HA	1:D:590:GLN:HG2	1.78	0.64
1:E:492:LYS:HD2	1:E:498:LEU:HD12	1.79	0.64
1:A:493:ARG:NH2	1:A:513:LYS:O	2.29	0.64
1:B:482:LEU:HA	1:B:526:MET:HE1	1.77	0.64
1:B:578:TYR:CB	1:C:761:ARG:HB3	2.27	0.64
1:C:557:GLU:HA	1:C:560:LEU:CD2	2.27	0.64
1:C:560:LEU:O	1:C:564:MET:N	2.28	0.64
1:C:720:PHE:HB3	1:C:725:SER:HB2	1.78	0.64
1:D:678:LEU:HB3	1:D:682:ALA:HB3	1.80	0.64
1:E:272:ASP:HA	1:E:275:ILE:HD12	1.78	0.64
1:A:516:VAL:HA	1:A:519:PHE:CD2	2.32	0.64
1:A:630:HIS:HB2	1:A:662:THR:HG21	1.78	0.64
1:A:720:PHE:HB3	1:A:725:SER:HB2	1.78	0.64
1:B:297:MET:HE1	1:C:455:TRP:CE3	2.33	0.64
1:B:516:VAL:HA	1:B:519:PHE:CD2	2.32	0.64
1:D:358:GLU:HA	1:D:361:LYS:HG3	1.78	0.64
1:E:516:VAL:HA	1:E:519:PHE:CD2	2.32	0.64
1:F:734:ARG:HG3	1:F:1139:ILE:HD11	1.78	0.64
1:A:380:ARG:HH12	1:B:339:ALA:HB3	1.61	0.64
1:A:452:THR:OG1	1:A:461:GLU:OE1	2.08	0.64
1:B:279:LYS:NZ	1:C:499:TYR:HA	2.11	0.64
1:C:395:LEU:HA	1:C:398:LEU:HD12	1.80	0.64
1:C:516:VAL:HA	1:C:519:PHE:CD2	2.32	0.64
1:C:636:MET:N	1:C:636:MET:SD	2.71	0.64
1:C:1148:ASP:HA	1:C:1151:LEU:CD1	2.28	0.64
1:D:449:GLU:O	1:D:453:ARG:NH1	2.31	0.64
1:F:636:MET:N	1:F:636:MET:SD	2.71	0.64
1:F:678:LEU:HB3	1:F:682:ALA:HB3	1.80	0.64
1:F:757:GLY:HA3	1:F:1165:LYS:HD2	1.77	0.64
1:F:1148:ASP:HA	1:F:1151:LEU:CD1	2.28	0.64
1:A:449:GLU:O	1:A:453:ARG:NH1	2.31	0.64
1:A:656:LEU:HA	1:A:659:ARG:HB2	1.78	0.64
1:A:681:THR:O	1:A:685:THR:OG1	2.14	0.64
1:A:1148:ASP:HA	1:A:1151:LEU:CD1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:337:LYS:HG3	1:C:371:ASP:CB	2.28	0.64
1:C:678:LEU:HB3	1:C:682:ALA:HB3	1.80	0.64
1:D:516:VAL:HA	1:D:519:PHE:CD2	2.32	0.64
1:D:720:PHE:HB3	1:D:725:SER:HB2	1.78	0.64
1:E:586:PHE:O	1:E:590:GLN:N	2.29	0.64
1:B:380:ARG:HH12	1:C:375:GLY:HA2	1.62	0.64
1:B:433:GLU:OE2	1:B:434:PHE:N	2.30	0.64
1:B:449:GLU:O	1:B:453:ARG:NH1	2.31	0.64
1:B:543:PRO:HA	1:B:546:LYS:CD	2.26	0.64
1:B:607:ILE:HD12	1:B:704:LEU:HB3	1.80	0.64
1:B:678:LEU:HB3	1:B:682:ALA:HB3	1.80	0.64
1:C:449:GLU:O	1:C:453:ARG:NH1	2.31	0.64
1:C:492:LYS:HD2	1:C:498:LEU:HD12	1.79	0.64
1:E:678:LEU:HB3	1:E:682:ALA:HB3	1.80	0.64
1:F:395:LEU:HA	1:F:398:LEU:HD12	1.80	0.64
1:F:720:PHE:HB3	1:F:725:SER:HB2	1.78	0.64
1:F:1175:ASP:HA	1:F:1178:GLU:OE2	1.98	0.64
1:A:337:LYS:HG3	1:A:371:ASP:CB	2.28	0.64
1:C:607:ILE:HD12	1:C:704:LEU:HB3	1.80	0.64
1:D:630:HIS:HB2	1:D:662:THR:HG21	1.78	0.64
1:E:607:ILE:HD12	1:E:704:LEU:HB3	1.80	0.64
1:A:485:GLU:OE1	1:A:526:MET:HE2	1.97	0.64
1:D:757:GLY:HA3	1:D:1165:LYS:HD2	1.77	0.64
1:D:1175:ASP:HA	1:D:1178:GLU:OE2	1.98	0.64
1:A:580:ASP:HB2	1:A:582:LYS:NZ	2.13	0.64
1:A:1175:ASP:HA	1:A:1178:GLU:OE2	1.98	0.64
1:D:636:MET:N	1:D:636:MET:SD	2.71	0.64
1:E:449:GLU:O	1:E:453:ARG:NH1	2.31	0.64
1:F:642:ASP:OD2	1:F:645:GLN:NE2	2.31	0.64
1:A:395:LEU:HA	1:A:398:LEU:HD12	1.80	0.64
1:A:678:LEU:HB3	1:A:682:ALA:HB3	1.80	0.64
1:B:630:HIS:HB2	1:B:662:THR:HG21	1.78	0.64
1:C:723:LYS:HZ2	1:D:1186:ILE:HD11	1.61	0.64
1:D:395:LEU:HA	1:D:398:LEU:HD12	1.80	0.64
1:D:560:LEU:O	1:D:564:MET:N	2.28	0.64
1:E:580:ASP:HB2	1:E:582:LYS:NZ	2.13	0.64
1:E:1149:GLN:HA	1:E:1152:HIS:HD1	1.63	0.64
1:A:478:ASP:OD2	1:A:532:ARG:NH2	2.32	0.63
1:A:659:ARG:NH1	1:B:535:ILE:HD12	2.12	0.63
1:B:1148:ASP:HA	1:B:1151:LEU:CD1	2.28	0.63
1:D:433:GLU:OE2	1:D:434:PHE:N	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:485:GLU:OE1	1:E:526:MET:HE2	1.97	0.63
1:A:1148:ASP:N	1:A:1148:ASP:OD1	2.30	0.63
1:B:580:ASP:HB2	1:B:582:LYS:NZ	2.13	0.63
1:C:642:ASP:OD2	1:C:645:GLN:NE2	2.31	0.63
1:D:674:TRP:O	1:D:675:LEU:HG	1.99	0.63
1:E:395:LEU:HA	1:E:398:LEU:HD12	1.80	0.63
1:E:636:MET:SD	1:E:636:MET:N	2.71	0.63
1:E:674:TRP:O	1:E:675:LEU:HG	1.99	0.63
1:F:284:LEU:HD13	1:F:287:LEU:HD23	1.80	0.63
1:F:492:LYS:HD2	1:F:498:LEU:HD12	1.79	0.63
1:A:348:GLU:OE1	1:A:351:ARG:HD3	1.98	0.63
1:A:441:ARG:NH2	1:A:468:ALA:O	2.30	0.63
1:A:674:TRP:O	1:A:675:LEU:HG	1.99	0.63
1:A:772:ALA:HB3	1:A:773:PRO:HD3	1.80	0.63
1:B:272:ASP:HA	1:B:275:ILE:HD12	1.78	0.63
1:B:395:LEU:HA	1:B:398:LEU:HD12	1.80	0.63
1:B:1149:GLN:HA	1:B:1152:HIS:HD1	1.63	0.63
1:C:648:GLU:OE1	1:C:685:THR:OG1	2.08	0.63
1:D:772:ALA:HB3	1:D:773:PRO:HD3	1.80	0.63
1:E:478:ASP:OD2	1:E:532:ARG:NH2	2.32	0.63
1:B:485:GLU:HA	1:B:488:LEU:CD2	2.29	0.63
1:B:550:ASN:O	1:B:554:GLN:HG2	1.99	0.63
1:B:720:PHE:HB3	1:B:725:SER:HB2	1.78	0.63
1:C:1175:ASP:HA	1:C:1178:GLU:OE2	1.98	0.63
1:D:580:ASP:HB2	1:D:582:LYS:NZ	2.13	0.63
1:D:594:THR:HA	1:D:598:LEU:HD13	1.81	0.63
1:D:1148:ASP:HA	1:D:1151:LEU:CD1	2.28	0.63
1:E:292:PHE:O	1:E:296:ASN:HA	1.99	0.63
1:E:433:GLU:OE2	1:E:434:PHE:N	2.30	0.63
1:E:1146:THR:OG1	1:E:1149:GLN:NE2	2.32	0.63
1:F:594:THR:HA	1:F:598:LEU:HD13	1.81	0.63
1:F:1149:GLN:HA	1:F:1152:HIS:HD1	1.63	0.63
1:A:482:LEU:HD22	1:A:523:MET:CE	2.29	0.63
1:C:292:PHE:O	1:C:296:ASN:HA	1.99	0.63
1:C:348:GLU:OE1	1:C:351:ARG:HD3	1.98	0.63
1:D:478:ASP:OD2	1:D:532:ARG:NH2	2.32	0.63
1:F:449:GLU:O	1:F:453:ARG:NH1	2.31	0.63
1:F:536:SER:O	1:F:539:LYS:NZ	2.29	0.63
1:F:550:ASN:O	1:F:554:GLN:HG2	1.99	0.63
1:F:1146:THR:OG1	1:F:1149:GLN:NE2	2.32	0.63
1:A:594:THR:HA	1:A:598:LEU:HD13	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:337:LYS:HG3	1:B:371:ASP:CB	2.28	0.63
1:C:581:PRO:HD2	1:C:582:LYS:HZ3	1.63	0.63
1:D:348:GLU:OE1	1:D:351:ARG:HD3	1.98	0.63
1:D:482:LEU:HD22	1:D:523:MET:CE	2.29	0.63
1:D:485:GLU:HA	1:D:488:LEU:CD2	2.29	0.63
1:E:348:GLU:OE1	1:E:351:ARG:HD3	1.98	0.63
1:F:1148:ASP:OD1	1:F:1148:ASP:N	2.30	0.63
1:A:284:LEU:HD13	1:A:287:LEU:HD23	1.80	0.63
1:A:449:GLU:HB3	1:A:453:ARG:NH2	2.14	0.63
1:E:449:GLU:HB3	1:E:453:ARG:NH2	2.14	0.63
1:E:536:SER:O	1:E:539:LYS:NZ	2.29	0.63
1:F:337:LYS:HG3	1:F:371:ASP:CB	2.28	0.63
1:F:348:GLU:OE1	1:F:351:ARG:HD3	1.98	0.63
1:F:607:ILE:HD12	1:F:704:LEU:HB3	1.80	0.63
1:A:634:PHE:CE1	1:A:666:ILE:HD12	2.34	0.63
1:A:1146:THR:OG1	1:A:1149:GLN:NE2	2.32	0.63
1:B:449:GLU:HB3	1:B:453:ARG:NH2	2.14	0.63
1:B:482:LEU:HD22	1:B:523:MET:CE	2.29	0.63
1:B:586:PHE:O	1:B:590:GLN:N	2.29	0.63
1:B:1146:THR:OG1	1:B:1149:GLN:NE2	2.32	0.63
1:C:449:GLU:HB3	1:C:453:ARG:NH2	2.14	0.63
1:C:1149:GLN:HA	1:C:1152:HIS:HD1	1.63	0.63
1:D:337:LYS:HG3	1:D:371:ASP:CB	2.28	0.63
1:D:642:ASP:OD2	1:D:645:GLN:NE2	2.31	0.63
1:F:478:ASP:OD2	1:F:532:ARG:NH2	2.32	0.63
1:F:545:LEU:HB3	1:F:549:LEU:CD1	2.29	0.63
1:A:485:GLU:HA	1:A:488:LEU:CD2	2.29	0.63
1:B:348:GLU:OE1	1:B:351:ARG:HD3	1.98	0.63
1:B:674:TRP:O	1:B:675:LEU:HG	1.99	0.63
1:D:493:ARG:NH2	1:D:513:LYS:O	2.29	0.63
1:F:449:GLU:HB3	1:F:453:ARG:NH2	2.14	0.63
1:F:648:GLU:OE1	1:F:685:THR:OG1	2.07	0.63
1:A:1149:GLN:HA	1:A:1152:HIS:HD1	1.63	0.62
1:B:297:MET:CE	1:C:454:ASN:HB2	2.29	0.62
1:B:478:ASP:OD2	1:B:532:ARG:NH2	2.32	0.62
1:B:642:ASP:OD2	1:B:645:GLN:NE2	2.31	0.62
1:D:1146:THR:OG1	1:D:1149:GLN:NE2	2.32	0.62
1:E:550:ASN:O	1:E:554:GLN:HG2	1.99	0.62
1:E:1175:ASP:HA	1:E:1178:GLU:OE2	1.98	0.62
1:F:292:PHE:O	1:F:296:ASN:HA	1.99	0.62
1:F:772:ALA:HB3	1:F:773:PRO:HD3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:558:LYS:O	1:A:562:LYS:HG3	1.99	0.62
1:A:607:ILE:HD12	1:A:704:LEU:HB3	1.80	0.62
1:B:594:THR:HA	1:B:598:LEU:HD13	1.81	0.62
1:B:659:ARG:HD2	1:C:535:ILE:CD1	2.24	0.62
1:D:449:GLU:HB3	1:D:453:ARG:NH2	2.14	0.62
1:E:485:GLU:HA	1:E:488:LEU:CD2	2.29	0.62
1:E:642:ASP:OD2	1:E:645:GLN:NE2	2.31	0.62
1:E:1148:ASP:HA	1:E:1151:LEU:CD1	2.28	0.62
1:F:433:GLU:OE2	1:F:434:PHE:N	2.30	0.62
1:F:604:ARG:NH2	1:F:720:PHE:O	2.33	0.62
1:A:636:MET:N	1:A:636:MET:SD	2.71	0.62
1:A:642:ASP:OD2	1:A:645:GLN:NE2	2.31	0.62
1:C:594:THR:HA	1:C:598:LEU:HD13	1.81	0.62
1:C:674:TRP:O	1:C:675:LEU:HG	1.99	0.62
1:C:1146:THR:OG1	1:C:1149:GLN:NE2	2.32	0.62
1:D:283:MET:CE	1:D:287:LEU:HD22	2.26	0.62
1:D:581:PRO:HD2	1:D:582:LYS:HZ3	1.64	0.62
1:D:1149:GLN:HA	1:D:1152:HIS:HD1	1.63	0.62
1:E:482:LEU:HD22	1:E:523:MET:CE	2.29	0.62
1:B:1175:ASP:HA	1:B:1178:GLU:OE2	1.98	0.62
1:C:478:ASP:OD2	1:C:532:ARG:NH2	2.32	0.62
1:D:284:LEU:HD13	1:D:287:LEU:HD23	1.80	0.62
1:D:397:ALA:HA	1:D:401:GLY:HA3	1.81	0.62
1:D:505:LEU:CB	1:D:771:LEU:HD22	2.30	0.62
1:D:604:ARG:NH2	1:D:720:PHE:O	2.33	0.62
1:D:607:ILE:HD12	1:D:704:LEU:HB3	1.80	0.62
1:A:397:ALA:HA	1:A:401:GLY:HA3	1.81	0.62
1:A:545:LEU:HB3	1:A:549:LEU:CD1	2.29	0.62
1:B:283:MET:CE	1:B:287:LEU:HD22	2.26	0.62
1:B:529:SER:HA	1:B:532:ARG:NE	2.15	0.62
1:B:634:PHE:CE1	1:B:666:ILE:HD12	2.34	0.62
1:B:636:MET:N	1:B:636:MET:SD	2.71	0.62
1:B:772:ALA:HB3	1:B:773:PRO:HD3	1.80	0.62
1:C:550:ASN:O	1:C:554:GLN:HG2	1.99	0.62
1:C:558:LYS:O	1:C:562:LYS:HG3	1.99	0.62
1:E:283:MET:CE	1:E:287:LEU:HD22	2.26	0.62
1:E:304:LEU:HG	1:E:425:ARG:HG2	1.82	0.62
1:E:634:PHE:CE1	1:E:666:ILE:HD12	2.34	0.62
1:F:529:SER:HA	1:F:532:ARG:NE	2.15	0.62
1:A:292:PHE:O	1:A:296:ASN:HA	1.99	0.62
1:D:292:PHE:O	1:D:296:ASN:HA	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:284:LEU:HD13	1:E:287:LEU:HD23	1.80	0.62
1:E:505:LEU:CB	1:E:771:LEU:HD22	2.30	0.62
1:F:482:LEU:HD22	1:F:523:MET:CE	2.29	0.62
1:A:464:CYS:HA	1:A:466:MET:N	2.15	0.62
1:A:529:SER:HA	1:A:532:ARG:NE	2.15	0.62
1:B:284:LEU:HD13	1:B:287:LEU:HD23	1.80	0.62
1:B:304:LEU:HG	1:B:425:ARG:HG2	1.82	0.62
1:B:464:CYS:HA	1:B:466:MET:N	2.15	0.62
1:C:529:SER:HA	1:C:532:ARG:NE	2.15	0.62
1:C:580:ASP:HB2	1:C:582:LYS:NZ	2.13	0.62
1:D:529:SER:HA	1:D:532:ARG:NE	2.15	0.62
1:D:545:LEU:HB3	1:D:549:LEU:CD1	2.29	0.62
1:D:558:LYS:O	1:D:562:LYS:HG3	1.99	0.62
1:D:634:PHE:CE1	1:D:666:ILE:HD12	2.34	0.62
1:E:594:THR:HA	1:E:598:LEU:HD13	1.81	0.62
1:E:772:ALA:HB3	1:E:773:PRO:HD3	1.80	0.62
1:F:558:LYS:O	1:F:562:LYS:HG3	1.99	0.62
1:F:581:PRO:HD2	1:F:582:LYS:HZ3	1.64	0.62
1:A:301:ARG:HB2	1:A:409:ILE:HG23	1.82	0.62
1:A:630:HIS:HB2	1:A:662:THR:CG2	2.30	0.62
1:B:505:LEU:CB	1:B:771:LEU:HD22	2.30	0.62
1:C:441:ARG:NH2	1:C:468:ALA:O	2.30	0.62
1:E:337:LYS:HG3	1:E:371:ASP:CB	2.28	0.62
1:F:580:ASP:HB2	1:F:582:LYS:NZ	2.13	0.62
1:C:284:LEU:HD13	1:C:287:LEU:HD23	1.80	0.62
1:C:485:GLU:HA	1:C:488:LEU:CD2	2.29	0.62
1:D:630:HIS:HB2	1:D:662:THR:CG2	2.30	0.62
1:E:301:ARG:HB2	1:E:409:ILE:HG23	1.82	0.62
1:E:581:PRO:HD2	1:E:582:LYS:HZ3	1.63	0.62
1:E:630:HIS:HB2	1:E:662:THR:CG2	2.30	0.62
1:A:550:ASN:O	1:A:554:GLN:HG2	1.99	0.62
1:B:292:PHE:O	1:B:296:ASN:HA	1.99	0.62
1:B:1179:ARG:HA	1:B:1182:LYS:CD	2.30	0.62
1:C:301:ARG:HB2	1:C:409:ILE:HG23	1.82	0.62
1:C:516:VAL:HA	1:C:519:PHE:HD2	1.65	0.62
1:C:604:ARG:NH2	1:C:720:PHE:O	2.32	0.62
1:C:630:HIS:HB2	1:C:662:THR:CG2	2.30	0.62
1:D:1178:GLU:O	1:D:1182:LYS:HG3	2.00	0.62
1:E:493:ARG:NH2	1:E:513:LYS:O	2.29	0.62
1:F:485:GLU:HA	1:F:488:LEU:CD2	2.29	0.62
1:F:630:HIS:HB2	1:F:662:THR:CG2	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:364:GLN:HB2	1:B:365:PRO:HD2	1.82	0.61
1:C:1179:ARG:HA	1:C:1182:LYS:CD	2.30	0.61
1:D:301:ARG:HB2	1:D:409:ILE:HG23	1.82	0.61
1:F:634:PHE:CE1	1:F:666:ILE:HD12	2.34	0.61
1:F:674:TRP:O	1:F:675:LEU:HG	1.98	0.61
1:F:1179:ARG:HA	1:F:1182:LYS:CD	2.30	0.61
1:A:673:ASN:OD1	1:A:674:TRP:N	2.34	0.61
1:A:1178:GLU:O	1:A:1182:LYS:HG3	2.00	0.61
1:B:630:HIS:HB2	1:B:662:THR:CG2	2.30	0.61
1:B:631:VAL:HG12	1:B:665:ILE:HD12	1.82	0.61
1:E:397:ALA:HA	1:E:401:GLY:HA3	1.81	0.61
1:E:1178:GLU:O	1:E:1182:LYS:HG3	2.00	0.61
1:A:618:LEU:HD23	1:A:618:LEU:H	1.65	0.61
1:D:452:THR:OG1	1:D:461:GLU:OE1	2.08	0.61
1:D:464:CYS:HA	1:D:466:MET:N	2.15	0.61
1:D:550:ASN:O	1:D:554:GLN:HG2	1.99	0.61
1:A:334:TYR:OH	1:A:363:THR:OG1	2.18	0.61
1:A:364:GLN:HB2	1:A:365:PRO:HD2	1.82	0.61
1:B:493:ARG:NH2	1:B:513:LYS:O	2.29	0.61
1:D:673:ASN:OD1	1:D:674:TRP:N	2.33	0.61
1:E:558:LYS:O	1:E:562:LYS:HG3	1.99	0.61
1:E:1148:ASP:N	1:E:1148:ASP:OD1	2.30	0.61
1:F:301:ARG:HB2	1:F:409:ILE:HG23	1.82	0.61
1:F:364:GLN:HB2	1:F:365:PRO:HD2	1.82	0.61
1:F:631:VAL:HG12	1:F:665:ILE:HD12	1.82	0.61
1:A:439:PRO:HB3	1:A:443:ALA:CB	2.31	0.61
1:A:505:LEU:CB	1:A:771:LEU:HD22	2.30	0.61
1:A:581:PRO:HD2	1:A:582:LYS:HZ3	1.65	0.61
1:A:604:ARG:NH2	1:A:720:PHE:O	2.33	0.61
1:C:482:LEU:HD22	1:C:523:MET:CE	2.29	0.61
1:C:634:PHE:CE1	1:C:666:ILE:HD12	2.34	0.61
1:C:772:ALA:HB3	1:C:773:PRO:HD3	1.80	0.61
1:E:652:ILE:HD13	1:F:641:GLN:HA	1.82	0.61
1:F:516:VAL:HA	1:F:519:PHE:HD2	1.65	0.61
1:C:364:GLN:HB2	1:C:365:PRO:HD2	1.82	0.61
1:C:505:LEU:CB	1:C:771:LEU:HD22	2.30	0.61
1:C:603:PRO:O	1:C:701:PHE:N	2.34	0.61
1:C:666:ILE:HB	1:C:701:PHE:HA	1.83	0.61
1:C:1178:GLU:O	1:C:1182:LYS:HG3	2.00	0.61
1:D:1179:ARG:HA	1:D:1182:LYS:CD	2.30	0.61
1:E:587:GLU:O	1:E:591:ARG:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:304:LEU:HG	1:A:425:ARG:HG2	1.82	0.61
1:B:397:ALA:HA	1:B:401:GLY:HA3	1.81	0.61
1:B:439:PRO:HB3	1:B:443:ALA:CB	2.31	0.61
1:B:545:LEU:HB3	1:B:549:LEU:CD1	2.29	0.61
1:B:558:LYS:O	1:B:562:LYS:HG3	1.99	0.61
1:B:581:PRO:HD2	1:B:582:LYS:HZ3	1.63	0.61
1:B:1148:ASP:N	1:B:1148:ASP:OD1	2.30	0.61
1:C:493:ARG:NH2	1:C:513:LYS:O	2.29	0.61
1:C:631:VAL:HG12	1:C:665:ILE:HD12	1.82	0.61
1:E:485:GLU:HB3	1:E:522:SER:HB3	1.83	0.61
1:E:529:SER:HA	1:E:532:ARG:NE	2.15	0.61
1:F:397:ALA:HA	1:F:401:GLY:HA3	1.81	0.61
1:A:604:ARG:CA	1:A:701:PHE:HB3	2.30	0.61
1:B:587:GLU:O	1:B:591:ARG:HG2	2.01	0.61
1:C:397:ALA:HA	1:C:401:GLY:HA3	1.81	0.61
1:C:439:PRO:HB3	1:C:443:ALA:CB	2.31	0.61
1:D:364:GLN:HB2	1:D:365:PRO:HD2	1.82	0.61
1:E:364:GLN:HB2	1:E:365:PRO:HD2	1.82	0.61
1:E:439:PRO:HB3	1:E:443:ALA:CB	2.31	0.61
1:F:485:GLU:HB3	1:F:522:SER:HB3	1.82	0.61
1:A:1179:ARG:HA	1:A:1182:LYS:CD	2.30	0.61
1:B:380:ARG:HH12	1:C:375:GLY:CA	2.14	0.61
1:B:485:GLU:HB3	1:B:522:SER:HB3	1.82	0.61
1:B:673:ASN:OD1	1:B:674:TRP:N	2.33	0.61
1:E:603:PRO:O	1:E:701:PHE:N	2.34	0.61
1:F:587:GLU:O	1:F:591:ARG:HG2	2.01	0.61
1:C:357:PHE:CD1	1:C:398:LEU:HD22	2.36	0.61
1:D:304:LEU:HG	1:D:425:ARG:HG2	1.81	0.61
1:D:580:ASP:HB3	1:E:761:ARG:HH11	1.65	0.61
1:E:464:CYS:HA	1:E:466:MET:N	2.15	0.61
1:E:516:VAL:HA	1:E:519:PHE:HD2	1.65	0.61
1:E:666:ILE:HB	1:E:701:PHE:HA	1.83	0.61
1:E:673:ASN:OD1	1:E:674:TRP:N	2.33	0.61
1:F:618:LEU:HD23	1:F:618:LEU:H	1.65	0.61
1:F:1132:THR:HA	1:F:1135:LYS:CD	2.30	0.61
1:F:1178:GLU:O	1:F:1182:LYS:HG3	2.00	0.61
1:B:357:PHE:CD1	1:B:398:LEU:HD22	2.36	0.60
1:C:618:LEU:H	1:C:618:LEU:HD23	1.65	0.60
1:E:281:MET:HG3	1:E:432:ARG:NH1	2.16	0.60
1:E:545:LEU:HB3	1:E:549:LEU:CD1	2.29	0.60
1:E:1179:ARG:HA	1:E:1182:LYS:CD	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:281:MET:HG3	1:F:432:ARG:NH1	2.16	0.60
1:A:607:ILE:HB	1:A:704:LEU:CB	2.31	0.60
1:D:334:TYR:OH	1:D:363:THR:OG1	2.18	0.60
1:D:357:PHE:CD1	1:D:398:LEU:HD22	2.36	0.60
1:D:439:PRO:HB3	1:D:443:ALA:CB	2.31	0.60
1:E:604:ARG:NH2	1:E:720:PHE:O	2.33	0.60
1:E:607:ILE:HB	1:E:704:LEU:CB	2.31	0.60
1:F:505:LEU:CB	1:F:771:LEU:HD22	2.30	0.60
1:A:357:PHE:CD1	1:A:398:LEU:HD22	2.36	0.60
1:A:1132:THR:HA	1:A:1135:LYS:CD	2.30	0.60
1:B:1178:GLU:O	1:B:1182:LYS:HG3	2.00	0.60
1:D:485:GLU:HB3	1:D:522:SER:HB3	1.83	0.60
1:E:357:PHE:CD1	1:E:398:LEU:HD22	2.36	0.60
1:E:1132:THR:HA	1:E:1135:LYS:CD	2.30	0.60
1:F:603:PRO:O	1:F:701:PHE:N	2.34	0.60
1:F:608:CYS:SG	1:F:728:SER:HA	2.41	0.60
1:A:281:MET:HG3	1:A:432:ARG:NH1	2.16	0.60
1:A:587:GLU:O	1:A:591:ARG:HG2	2.01	0.60
1:B:666:ILE:HB	1:B:701:PHE:HA	1.83	0.60
1:C:589:GLN:O	1:C:592:LEU:HG	2.01	0.60
1:D:281:MET:HG3	1:D:432:ARG:NH1	2.16	0.60
1:F:304:LEU:HG	1:F:425:ARG:HG2	1.82	0.60
1:F:464:CYS:HA	1:F:466:MET:N	2.15	0.60
1:F:589:GLN:O	1:F:592:LEU:HG	2.01	0.60
1:F:1137:LEU:HD13	1:F:1178:GLU:HB2	1.83	0.60
1:A:589:GLN:O	1:A:592:LEU:HG	2.01	0.60
1:A:666:ILE:HB	1:A:701:PHE:HA	1.83	0.60
1:B:604:ARG:NH2	1:B:720:PHE:O	2.33	0.60
1:C:339:ALA:HB2	1:C:375:GLY:HA3	1.83	0.60
1:C:1148:ASP:HA	1:C:1151:LEU:HD12	1.84	0.60
1:D:339:ALA:HB2	1:D:375:GLY:HA3	1.83	0.60
1:D:603:PRO:O	1:D:701:PHE:N	2.34	0.60
1:E:334:TYR:OH	1:E:363:THR:OG1	2.18	0.60
1:F:607:ILE:HB	1:F:704:LEU:CB	2.32	0.60
1:F:673:ASN:OD1	1:F:674:TRP:N	2.34	0.60
1:A:339:ALA:HB2	1:A:375:GLY:HA3	1.83	0.60
1:A:485:GLU:HB3	1:A:522:SER:HB3	1.82	0.60
1:A:610:ARG:HH11	1:A:708:PRO:HD3	1.67	0.60
1:B:265:PHE:CA	1:B:319:ALA:HB1	2.31	0.60
1:C:281:MET:HG3	1:C:432:ARG:NH1	2.16	0.60
1:C:304:LEU:HG	1:C:425:ARG:HG2	1.81	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:464:CYS:HA	1:C:466:MET:N	2.15	0.60
1:C:545:LEU:HB3	1:C:549:LEU:CD1	2.29	0.60
1:D:1132:THR:HA	1:D:1135:LYS:CD	2.30	0.60
1:E:618:LEU:HD23	1:E:618:LEU:H	1.65	0.60
1:A:608:CYS:SG	1:A:728:SER:HA	2.42	0.60
1:C:608:CYS:SG	1:C:728:SER:HA	2.41	0.60
1:D:587:GLU:O	1:D:591:ARG:HG2	2.01	0.60
1:D:610:ARG:HH11	1:D:708:PRO:HD3	1.67	0.60
1:E:1148:ASP:HA	1:E:1151:LEU:HD12	1.84	0.60
1:A:516:VAL:HA	1:A:519:PHE:HD2	1.65	0.60
1:A:1137:LEU:HD13	1:A:1178:GLU:HB2	1.83	0.60
1:B:281:MET:HG3	1:B:432:ARG:NH1	2.16	0.60
1:B:301:ARG:HB2	1:B:409:ILE:HG23	1.82	0.60
1:B:456:ASP:HB2	1:B:457:PRO:HD3	1.84	0.60
1:B:618:LEU:HD23	1:B:618:LEU:H	1.65	0.60
1:C:456:ASP:HB2	1:C:457:PRO:HD3	1.84	0.60
1:D:1148:ASP:HA	1:D:1151:LEU:HD12	1.84	0.60
1:E:631:VAL:HG12	1:E:665:ILE:HD12	1.82	0.60
1:E:1137:LEU:HD13	1:E:1178:GLU:HB2	1.83	0.60
1:F:1148:ASP:HA	1:F:1151:LEU:HD12	1.84	0.60
1:A:474:TYR:HB3	1:A:478:ASP:CB	2.31	0.60
1:A:631:VAL:HG12	1:A:665:ILE:HD12	1.82	0.60
1:A:1148:ASP:HA	1:A:1151:LEU:HD12	1.84	0.60
1:B:741:PHE:O	1:B:745:LEU:HG	2.02	0.60
1:B:1132:THR:HA	1:B:1135:LYS:CD	2.30	0.60
1:C:539:LYS:HA	1:C:624:GLN:HE21	1.67	0.60
1:D:306:HIS:O	1:D:435:TYR:HA	2.02	0.60
1:D:589:GLN:O	1:D:592:LEU:HG	2.01	0.60
1:D:607:ILE:HB	1:D:704:LEU:CB	2.32	0.60
1:D:608:CYS:SG	1:D:728:SER:HA	2.42	0.60
1:D:666:ILE:HB	1:D:701:PHE:HA	1.83	0.60
1:E:339:ALA:HB2	1:E:375:GLY:HA3	1.83	0.60
1:E:608:CYS:SG	1:E:728:SER:HA	2.42	0.60
1:E:741:PHE:O	1:E:745:LEU:HG	2.02	0.60
1:F:339:ALA:HB2	1:F:375:GLY:HA3	1.83	0.60
1:F:357:PHE:CD1	1:F:398:LEU:HD22	2.36	0.60
1:A:517:LYS:CD	1:F:583:GLU:HG2	2.31	0.60
1:B:297:MET:HE3	1:C:454:ASN:HB2	1.83	0.60
1:B:603:PRO:O	1:B:701:PHE:N	2.34	0.60
1:B:607:ILE:HB	1:B:704:LEU:CB	2.31	0.60
1:B:1148:ASP:HA	1:B:1151:LEU:HD12	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:474:TYR:HB3	1:C:478:ASP:CB	2.31	0.60
1:C:485:GLU:HB3	1:C:522:SER:HB3	1.83	0.60
1:C:607:ILE:HB	1:C:704:LEU:CB	2.31	0.60
1:C:1132:THR:HA	1:C:1135:LYS:CD	2.30	0.60
1:D:516:VAL:HA	1:D:519:PHE:HD2	1.65	0.60
1:D:1137:LEU:HD13	1:D:1178:GLU:HB2	1.83	0.60
1:E:604:ARG:CA	1:E:701:PHE:HB3	2.30	0.60
1:F:439:PRO:HB3	1:F:443:ALA:CB	2.31	0.60
1:F:456:ASP:HB2	1:F:457:PRO:HD3	1.84	0.60
1:A:283:MET:CE	1:A:287:LEU:HD22	2.26	0.59
1:A:456:ASP:HB2	1:A:457:PRO:HD3	1.84	0.59
1:B:589:GLN:O	1:B:592:LEU:HG	2.01	0.59
1:C:306:HIS:O	1:C:435:TYR:HA	2.02	0.59
1:D:618:LEU:HD23	1:D:618:LEU:H	1.65	0.59
1:E:589:GLN:O	1:E:592:LEU:HG	2.01	0.59
1:F:306:HIS:O	1:F:435:TYR:HA	2.02	0.59
1:F:666:ILE:HB	1:F:701:PHE:HA	1.83	0.59
1:B:306:HIS:O	1:B:435:TYR:HA	2.02	0.59
1:C:587:GLU:O	1:C:591:ARG:HG2	2.01	0.59
1:D:631:VAL:HG12	1:D:665:ILE:HD12	1.82	0.59
1:E:610:ARG:HH11	1:E:708:PRO:HD3	1.67	0.59
1:E:622:ILE:O	1:E:625:GLN:HG3	2.03	0.59
1:A:265:PHE:CA	1:A:319:ALA:HB1	2.31	0.59
1:C:673:ASN:OD1	1:C:674:TRP:N	2.34	0.59
1:D:445:LYS:HE3	1:D:464:CYS:HB2	1.85	0.59
1:F:295:PHE:O	1:F:297:MET:HG3	2.02	0.59
1:F:334:TYR:OH	1:F:363:THR:OG1	2.18	0.59
1:A:306:HIS:O	1:A:435:TYR:HA	2.02	0.59
1:A:402:MET:HG3	1:A:403:GLU:HG3	1.85	0.59
1:A:445:LYS:HE3	1:A:464:CYS:HB2	1.85	0.59
1:A:589:GLN:HE21	1:B:520:VAL:HB	1.67	0.59
1:A:603:PRO:O	1:A:701:PHE:N	2.34	0.59
1:B:329:LYS:NZ	1:C:503:LYS:HE2	2.18	0.59
1:B:445:LYS:HE3	1:B:464:CYS:HB2	1.85	0.59
1:B:516:VAL:HA	1:B:519:PHE:HD2	1.65	0.59
1:B:608:CYS:SG	1:B:728:SER:HA	2.42	0.59
1:B:723:LYS:NZ	1:C:1183:GLU:OE2	2.35	0.59
1:C:279:LYS:HE2	1:D:499:TYR:HA	1.84	0.59
1:C:283:MET:CE	1:C:287:LEU:HD22	2.26	0.59
1:D:445:LYS:HE3	1:D:464:CYS:CB	2.33	0.59
1:D:456:ASP:HB2	1:D:457:PRO:HD3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:622:ILE:O	1:D:625:GLN:HG3	2.03	0.59
1:E:265:PHE:CA	1:E:319:ALA:HB1	2.31	0.59
1:E:474:TYR:HB3	1:E:478:ASP:CB	2.31	0.59
1:B:445:LYS:HE3	1:B:464:CYS:CB	2.33	0.59
1:C:709:LEU:HA	1:C:712:LEU:HD11	1.85	0.59
1:F:445:LYS:HE3	1:F:464:CYS:HB2	1.85	0.59
1:A:295:PHE:O	1:A:297:MET:HG3	2.02	0.59
1:A:445:LYS:HE3	1:A:464:CYS:CB	2.32	0.59
1:B:334:TYR:OH	1:B:363:THR:OG1	2.18	0.59
1:B:339:ALA:HB2	1:B:375:GLY:HA3	1.83	0.59
1:B:599:ARG:HG2	1:C:1158:TYR:CB	2.25	0.59
1:C:445:LYS:HE3	1:C:464:CYS:HB2	1.85	0.59
1:C:610:ARG:HH11	1:C:708:PRO:HD3	1.67	0.59
1:D:265:PHE:CA	1:D:319:ALA:HB1	2.31	0.59
1:D:634:PHE:CD2	1:D:654:LEU:HD23	2.38	0.59
1:E:306:HIS:O	1:E:435:TYR:HA	2.02	0.59
1:F:539:LYS:HA	1:F:624:GLN:HE21	1.67	0.59
1:A:539:LYS:HA	1:A:624:GLN:HE21	1.67	0.59
1:C:488:LEU:HA	1:C:491:ILE:CG1	2.33	0.59
1:C:741:PHE:O	1:C:745:LEU:HG	2.02	0.59
1:D:539:LYS:HA	1:D:624:GLN:HE21	1.67	0.59
1:E:580:ASP:HB3	1:F:761:ARG:HH11	1.67	0.59
1:E:634:PHE:CD2	1:E:654:LEU:HD23	2.38	0.59
1:F:283:MET:CE	1:F:287:LEU:HD22	2.26	0.59
1:F:709:LEU:HA	1:F:712:LEU:HD11	1.85	0.59
1:A:634:PHE:CD2	1:A:654:LEU:HD23	2.38	0.59
1:B:539:LYS:HA	1:B:624:GLN:HE21	1.67	0.59
1:C:445:LYS:HE3	1:C:464:CYS:CB	2.32	0.59
1:C:604:ARG:HB2	1:C:701:PHE:CD2	2.37	0.59
1:C:1137:LEU:HD13	1:C:1178:GLU:HB2	1.83	0.59
1:D:474:TYR:HB3	1:D:478:ASP:CB	2.31	0.59
1:D:741:PHE:O	1:D:745:LEU:HG	2.02	0.59
1:F:445:LYS:HE3	1:F:464:CYS:CB	2.33	0.59
1:B:520:VAL:O	1:B:524:LYS:HG3	2.03	0.59
1:B:604:ARG:HB2	1:B:701:PHE:CD2	2.37	0.59
1:D:488:LEU:HA	1:D:491:ILE:CG1	2.33	0.59
1:D:536:SER:O	1:D:539:LYS:NZ	2.29	0.59
1:F:265:PHE:CA	1:F:319:ALA:HB1	2.31	0.59
1:F:488:LEU:HA	1:F:491:ILE:CG1	2.33	0.59
1:F:610:ARG:HH11	1:F:708:PRO:HD3	1.67	0.59
1:F:741:PHE:O	1:F:745:LEU:HG	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:741:PHE:O	1:A:745:LEU:HG	2.02	0.59
1:B:337:LYS:HE3	1:B:371:ASP:HB2	1.85	0.59
1:B:423:ALA:HA	1:B:426:ARG:CD	2.33	0.59
1:A:488:LEU:HA	1:A:491:ILE:CG1	2.33	0.58
1:A:622:ILE:O	1:A:625:GLN:HG3	2.03	0.58
1:A:709:LEU:HA	1:A:712:LEU:HD11	1.85	0.58
1:B:402:MET:HG3	1:B:403:GLU:HG3	1.85	0.58
1:B:467:LEU:HA	1:B:470:LYS:NZ	2.18	0.58
1:B:720:PHE:HB3	1:B:725:SER:CB	2.33	0.58
1:D:296:ASN:HB2	1:E:257:LEU:HD21	1.85	0.58
1:E:337:LYS:HE3	1:E:371:ASP:HB2	1.85	0.58
1:E:445:LYS:HE3	1:E:464:CYS:HB2	1.85	0.58
1:E:467:LEU:HA	1:E:470:LYS:NZ	2.18	0.58
1:E:520:VAL:O	1:E:524:LYS:HG3	2.03	0.58
1:F:337:LYS:HE3	1:F:371:ASP:HB2	1.85	0.58
1:F:720:PHE:HB3	1:F:725:SER:CB	2.33	0.58
1:A:536:SER:O	1:A:539:LYS:NZ	2.29	0.58
1:C:337:LYS:HE3	1:C:371:ASP:HB2	1.85	0.58
1:D:423:ALA:HA	1:D:426:ARG:CD	2.33	0.58
1:D:441:ARG:NH2	1:D:468:ALA:O	2.30	0.58
1:D:520:VAL:O	1:D:524:LYS:HG3	2.03	0.58
1:E:295:PHE:O	1:E:297:MET:HG3	2.02	0.58
1:E:402:MET:HG3	1:E:403:GLU:HG3	1.85	0.58
1:E:445:LYS:HE3	1:E:464:CYS:CB	2.32	0.58
1:E:539:LYS:HA	1:E:624:GLN:HE21	1.67	0.58
1:E:720:PHE:HB3	1:E:725:SER:CB	2.34	0.58
1:F:604:ARG:HB2	1:F:701:PHE:CD2	2.37	0.58
1:A:423:ALA:HA	1:A:426:ARG:CD	2.33	0.58
1:A:604:ARG:HB2	1:A:701:PHE:CD2	2.37	0.58
1:B:578:TYR:HB2	1:C:761:ARG:HB3	1.85	0.58
1:B:622:ILE:O	1:B:625:GLN:HG3	2.03	0.58
1:C:423:ALA:HA	1:C:426:ARG:CD	2.33	0.58
1:C:520:VAL:O	1:C:524:LYS:HG3	2.03	0.58
1:D:295:PHE:O	1:D:297:MET:HG3	2.02	0.58
1:A:337:LYS:HG3	1:A:371:ASP:HB3	1.86	0.58
1:B:1137:LEU:HD13	1:B:1178:GLU:HB2	1.83	0.58
1:D:557:GLU:O	1:D:560:LEU:HG	2.03	0.58
1:F:763:ARG:HH11	1:F:764:ARG:H	1.51	0.58
1:B:295:PHE:O	1:B:297:MET:HG3	2.02	0.58
1:B:557:GLU:O	1:B:560:LEU:HG	2.03	0.58
1:B:610:ARG:HH11	1:B:708:PRO:HD3	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:763:ARG:HH11	1:B:764:ARG:H	1.51	0.58
1:C:295:PHE:O	1:C:297:MET:HG3	2.02	0.58
1:C:634:PHE:CD2	1:C:654:LEU:HD23	2.38	0.58
1:D:604:ARG:HB2	1:D:701:PHE:CD2	2.37	0.58
1:E:493:ARG:NE	1:E:515:LYS:HE3	2.19	0.58
1:E:733:THR:HG23	1:E:736:SER:H	1.68	0.58
1:F:479:LEU:HA	1:F:482:LEU:HD12	1.86	0.58
1:F:604:ARG:NE	1:F:719:TRP:O	2.36	0.58
1:F:634:PHE:CD2	1:F:654:LEU:HD23	2.37	0.58
1:A:507:ILE:HD11	1:F:294:ARG:HH22	1.68	0.58
1:A:557:GLU:O	1:A:560:LEU:HG	2.03	0.58
1:B:293:GLN:HA	1:B:296:ASN:HB3	1.86	0.58
1:B:333:PHE:HB3	1:B:369:PHE:CE2	2.34	0.58
1:B:733:THR:HG23	1:B:736:SER:H	1.69	0.58
1:B:1148:ASP:O	1:B:1152:HIS:ND1	2.37	0.58
1:C:493:ARG:NE	1:C:515:LYS:HE3	2.19	0.58
1:C:557:GLU:O	1:C:560:LEU:HG	2.03	0.58
1:C:720:PHE:HB3	1:C:725:SER:CB	2.34	0.58
1:D:267:SER:HB2	1:D:315:LEU:HD13	1.86	0.58
1:D:467:LEU:HA	1:D:470:LYS:NZ	2.18	0.58
1:E:456:ASP:HB2	1:E:457:PRO:HD3	1.84	0.58
1:F:493:ARG:NE	1:F:515:LYS:HE3	2.19	0.58
1:F:557:GLU:O	1:F:560:LEU:HG	2.03	0.58
1:B:493:ARG:NE	1:B:515:LYS:HE3	2.19	0.58
1:B:634:PHE:CD2	1:B:654:LEU:HD23	2.38	0.58
1:C:267:SER:HB2	1:C:315:LEU:HD13	1.86	0.58
1:C:1148:ASP:O	1:C:1152:HIS:ND1	2.37	0.58
1:D:337:LYS:HG3	1:D:371:ASP:HB3	1.86	0.58
1:E:548:LEU:HD11	1:E:740:PHE:CG	2.39	0.58
1:F:604:ARG:CA	1:F:701:PHE:HB3	2.30	0.58
1:F:622:ILE:O	1:F:625:GLN:HG3	2.03	0.58
1:A:333:PHE:HB3	1:A:369:PHE:CE2	2.34	0.58
1:B:267:SER:HB2	1:B:315:LEU:HD13	1.86	0.58
1:C:467:LEU:HA	1:C:470:LYS:NZ	2.18	0.58
1:C:479:LEU:HA	1:C:482:LEU:HD12	1.86	0.58
1:C:604:ARG:NE	1:C:719:TRP:O	2.36	0.58
1:E:293:GLN:HA	1:E:296:ASN:HB3	1.86	0.58
1:E:488:LEU:HA	1:E:491:ILE:CG1	2.33	0.58
1:F:441:ARG:NH2	1:F:468:ALA:O	2.30	0.58
1:F:520:VAL:O	1:F:524:LYS:HG3	2.03	0.58
1:A:293:GLN:HA	1:A:296:ASN:HB3	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:548:LEU:HD11	1:A:740:PHE:CG	2.39	0.58
1:A:604:ARG:NE	1:A:720:PHE:HA	2.19	0.58
1:B:488:LEU:HA	1:B:491:ILE:CG1	2.33	0.58
1:B:548:LEU:HD11	1:B:740:PHE:CG	2.39	0.58
1:B:651:ILE:HD13	1:B:685:THR:HB	1.86	0.58
1:C:402:MET:HG3	1:C:403:GLU:HG3	1.85	0.58
1:C:622:ILE:O	1:C:625:GLN:HG3	2.03	0.58
1:D:402:MET:HG3	1:D:403:GLU:HG3	1.85	0.58
1:D:677:VAL:HB	1:D:678:LEU:HD22	1.86	0.58
1:E:292:PHE:CD2	1:F:256:PRO:HA	2.38	0.58
1:E:709:LEU:HA	1:E:712:LEU:HD11	1.85	0.58
1:F:467:LEU:HA	1:F:470:LYS:HZ1	1.69	0.58
1:A:267:SER:HB2	1:A:315:LEU:HD13	1.86	0.58
1:A:301:ARG:HE	1:A:405:ARG:HB3	1.69	0.58
1:A:677:VAL:HB	1:A:678:LEU:HD22	1.86	0.58
1:B:723:LYS:HZ2	1:C:1186:ILE:HD11	1.68	0.58
1:C:536:SER:O	1:C:539:LYS:NZ	2.29	0.58
1:D:548:LEU:O	1:D:549:LEU:HD23	2.04	0.58
1:D:604:ARG:NE	1:D:720:PHE:HA	2.19	0.58
1:E:1148:ASP:O	1:E:1152:HIS:ND1	2.37	0.58
1:F:267:SER:HB2	1:F:315:LEU:HD13	1.86	0.58
1:F:285:PRO:HB3	1:F:292:PHE:HZ	1.69	0.58
1:F:474:TYR:HB3	1:F:478:ASP:CB	2.31	0.58
1:F:733:THR:HG23	1:F:736:SER:H	1.68	0.58
1:A:337:LYS:HE3	1:A:371:ASP:HB2	1.85	0.57
1:A:548:LEU:O	1:A:549:LEU:HD23	2.04	0.57
1:A:1148:ASP:O	1:A:1152:HIS:ND1	2.37	0.57
1:D:337:LYS:HE3	1:D:371:ASP:HB2	1.85	0.57
1:E:267:SER:HB2	1:E:315:LEU:HD13	1.86	0.57
1:E:604:ARG:NE	1:E:719:TRP:O	2.36	0.57
1:E:709:LEU:HA	1:E:712:LEU:CG	2.34	0.57
1:F:402:MET:HG3	1:F:403:GLU:HG3	1.85	0.57
1:F:548:LEU:HD11	1:F:740:PHE:CG	2.39	0.57
1:F:635:ASP:OD1	1:F:669:PRO:HD2	2.04	0.57
1:A:493:ARG:NE	1:A:515:LYS:HE3	2.19	0.57
1:A:517:LYS:HG3	1:F:589:GLN:OE1	2.05	0.57
1:A:587:GLU:O	1:A:590:GLN:HG2	2.05	0.57
1:D:301:ARG:HE	1:D:405:ARG:HB3	1.69	0.57
1:D:693:LEU:HD13	1:D:699:ILE:HD11	1.87	0.57
1:D:709:LEU:HA	1:D:712:LEU:HD11	1.85	0.57
1:D:733:THR:HG23	1:D:736:SER:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:557:GLU:O	1:E:560:LEU:HG	2.03	0.57
1:F:1161:ILE:HA	1:F:1164:THR:OG1	2.04	0.57
1:A:467:LEU:HA	1:A:470:LYS:NZ	2.18	0.57
1:A:604:ARG:NE	1:A:719:TRP:O	2.36	0.57
1:B:406:GLY:C	1:C:256:PRO:HB2	2.29	0.57
1:B:587:GLU:O	1:B:590:GLN:HG2	2.04	0.57
1:C:265:PHE:CA	1:C:319:ALA:HB1	2.31	0.57
1:C:733:THR:HG23	1:C:736:SER:H	1.69	0.57
1:D:651:ILE:HD13	1:D:685:THR:HB	1.86	0.57
1:D:720:PHE:HB3	1:D:725:SER:CB	2.34	0.57
1:E:587:GLU:O	1:E:590:GLN:HG2	2.05	0.57
1:F:358:GLU:O	1:F:362:SER:N	2.37	0.57
1:F:467:LEU:HA	1:F:470:LYS:NZ	2.18	0.57
1:F:693:LEU:HD13	1:F:699:ILE:HD11	1.87	0.57
1:A:285:PRO:HB3	1:A:292:PHE:HZ	1.69	0.57
1:B:709:LEU:HA	1:B:712:LEU:CG	2.34	0.57
1:C:285:PRO:HB3	1:C:292:PHE:HZ	1.69	0.57
1:C:548:LEU:O	1:C:549:LEU:HD23	2.04	0.57
1:D:568:SER:C	1:D:569:LYS:HD3	2.30	0.57
1:D:763:ARG:HH11	1:D:764:ARG:H	1.51	0.57
1:C:604:ARG:CA	1:C:701:PHE:HB3	2.30	0.57
1:C:689:MET:CA	1:C:692:ARG:HB2	2.34	0.57
1:C:763:ARG:HH11	1:C:764:ARG:H	1.51	0.57
1:D:292:PHE:CD2	1:E:256:PRO:HB3	2.40	0.57
1:E:635:ASP:OD1	1:E:669:PRO:HD2	2.04	0.57
1:F:301:ARG:HE	1:F:405:ARG:HB3	1.69	0.57
1:F:1148:ASP:O	1:F:1152:HIS:ND1	2.37	0.57
1:A:568:SER:C	1:A:569:LYS:HD3	2.30	0.57
1:A:693:LEU:HD13	1:A:699:ILE:HD11	1.87	0.57
1:B:285:PRO:HB3	1:B:292:PHE:HZ	1.70	0.57
1:C:677:VAL:HB	1:C:678:LEU:HD22	1.86	0.57
1:D:479:LEU:HA	1:D:482:LEU:HD12	1.85	0.57
1:D:1161:ILE:HA	1:D:1164:THR:OG1	2.04	0.57
1:E:279:LYS:O	1:E:283:MET:HB3	2.05	0.57
1:F:548:LEU:O	1:F:549:LEU:HD23	2.04	0.57
1:A:479:LEU:HA	1:A:482:LEU:HD12	1.85	0.57
1:A:520:VAL:O	1:A:524:LYS:HG3	2.03	0.57
1:A:720:PHE:HB3	1:A:725:SER:CB	2.33	0.57
1:B:688:SER:O	1:B:692:ARG:N	2.37	0.57
1:C:603:PRO:HB2	1:C:700:LEU:HA	1.87	0.57
1:C:688:SER:O	1:C:692:ARG:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1161:ILE:HA	1:C:1164:THR:OG1	2.04	0.57
1:D:709:LEU:HA	1:D:712:LEU:CG	2.34	0.57
1:D:1148:ASP:O	1:D:1152:HIS:ND1	2.37	0.57
1:E:651:ILE:HD13	1:E:685:THR:HB	1.86	0.57
1:F:603:PRO:HB2	1:F:700:LEU:HA	1.87	0.57
1:A:279:LYS:O	1:A:283:MET:HB3	2.05	0.57
1:A:635:ASP:OD1	1:A:669:PRO:HD2	2.04	0.57
1:A:757:GLY:HA3	1:A:1165:LYS:CD	2.35	0.57
1:B:1176:GLU:O	1:B:1179:ARG:HG3	2.05	0.57
1:C:540:PRO:N	1:C:624:GLN:HG2	2.20	0.57
1:C:548:LEU:HD11	1:C:740:PHE:CG	2.39	0.57
1:C:587:GLU:O	1:C:590:GLN:HG2	2.05	0.57
1:C:604:ARG:NE	1:C:720:PHE:HA	2.19	0.57
1:D:293:GLN:HA	1:D:296:ASN:HB3	1.86	0.57
1:D:493:ARG:NE	1:D:515:LYS:HE3	2.19	0.57
1:D:587:GLU:O	1:D:590:GLN:HG2	2.05	0.57
1:E:1161:ILE:HA	1:E:1164:THR:OG1	2.04	0.57
1:A:310:GLY:C	1:A:475:GLY:HA3	2.30	0.57
1:A:651:ILE:HD13	1:A:685:THR:HB	1.86	0.57
1:A:733:THR:HG23	1:A:736:SER:H	1.69	0.57
1:A:763:ARG:HH11	1:A:764:ARG:H	1.51	0.57
1:B:310:GLY:C	1:B:475:GLY:HA3	2.30	0.57
1:B:604:ARG:NE	1:B:719:TRP:O	2.36	0.57
1:C:310:GLY:C	1:C:475:GLY:HA3	2.30	0.57
1:D:548:LEU:HD11	1:D:740:PHE:CG	2.39	0.57
1:E:301:ARG:HE	1:E:405:ARG:HB3	1.69	0.57
1:E:310:GLY:C	1:E:475:GLY:HA3	2.30	0.57
1:E:540:PRO:N	1:E:624:GLN:HG2	2.20	0.57
1:F:293:GLN:HA	1:F:296:ASN:HB3	1.86	0.57
1:F:310:GLY:C	1:F:475:GLY:HA3	2.30	0.57
1:F:677:VAL:HB	1:F:678:LEU:HD22	1.86	0.57
1:B:474:TYR:HB3	1:B:478:ASP:CB	2.31	0.57
1:B:536:SER:O	1:B:539:LYS:NZ	2.29	0.57
1:B:709:LEU:HA	1:B:712:LEU:HD11	1.85	0.57
1:D:285:PRO:HB3	1:D:292:PHE:HZ	1.69	0.57
1:D:310:GLY:C	1:D:475:GLY:HA3	2.30	0.57
1:E:479:LEU:HA	1:E:482:LEU:HD12	1.86	0.57
1:E:548:LEU:O	1:E:549:LEU:HD23	2.04	0.57
1:F:279:LYS:O	1:F:283:MET:HB3	2.05	0.57
1:F:540:PRO:N	1:F:624:GLN:HG2	2.20	0.57
1:F:651:ILE:HD13	1:F:685:THR:HB	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:757:GLY:HA3	1:B:1165:LYS:CD	2.35	0.56
1:B:1161:ILE:HA	1:B:1164:THR:OG1	2.04	0.56
1:C:337:LYS:HG3	1:C:371:ASP:HB3	1.86	0.56
1:C:1176:GLU:O	1:C:1179:ARG:HG3	2.05	0.56
1:E:757:GLY:HA3	1:E:1165:LYS:CD	2.35	0.56
1:E:1175:ASP:N	1:E:1175:ASP:OD1	2.38	0.56
1:B:279:LYS:CE	1:C:499:TYR:HA	2.35	0.56
1:B:301:ARG:HE	1:B:405:ARG:HB3	1.69	0.56
1:B:548:LEU:O	1:B:549:LEU:HD23	2.04	0.56
1:B:604:ARG:CA	1:B:701:PHE:HB3	2.30	0.56
1:B:635:ASP:OD1	1:B:669:PRO:HD2	2.05	0.56
1:C:464:CYS:SG	1:C:467:LEU:HB2	2.46	0.56
1:C:491:ILE:O	1:C:494:THR:OG1	2.21	0.56
1:C:651:ILE:HD13	1:C:685:THR:HB	1.86	0.56
1:D:318:ARG:HH12	1:D:337:LYS:HE2	1.70	0.56
1:D:464:CYS:SG	1:D:467:LEU:HB2	2.46	0.56
1:D:583:GLU:HG2	1:E:517:LYS:HE2	1.85	0.56
1:F:423:ALA:HA	1:F:426:ARG:CD	2.33	0.56
1:F:491:ILE:O	1:F:494:THR:OG1	2.21	0.56
1:F:705:SER:OG	1:F:707:SER:O	2.23	0.56
1:A:709:LEU:HA	1:A:712:LEU:CG	2.34	0.56
1:B:318:ARG:HH12	1:B:337:LYS:HE2	1.70	0.56
1:B:337:LYS:HG3	1:B:371:ASP:HB3	1.86	0.56
1:B:479:LEU:HA	1:B:482:LEU:HD12	1.85	0.56
1:B:540:PRO:N	1:B:624:GLN:HG2	2.20	0.56
1:B:568:SER:C	1:B:569:LYS:HD3	2.30	0.56
1:B:1175:ASP:OD1	1:B:1175:ASP:N	2.38	0.56
1:C:279:LYS:O	1:C:283:MET:HB3	2.05	0.56
1:C:705:SER:OG	1:C:707:SER:O	2.23	0.56
1:C:1132:THR:OG1	1:C:1133:PRO:HD3	2.06	0.56
1:D:540:PRO:N	1:D:624:GLN:HG2	2.20	0.56
1:D:603:PRO:HB2	1:D:700:LEU:HA	1.87	0.56
1:D:604:ARG:NE	1:D:719:TRP:O	2.36	0.56
1:D:688:SER:O	1:D:692:ARG:N	2.37	0.56
1:E:285:PRO:HB3	1:E:292:PHE:HZ	1.69	0.56
1:E:359:GLU:HA	1:E:362:SER:OG	2.05	0.56
1:E:505:LEU:HA	1:E:773:PRO:HD2	1.88	0.56
1:E:568:SER:C	1:E:569:LYS:HD3	2.30	0.56
1:E:1176:GLU:O	1:E:1179:ARG:HG3	2.05	0.56
1:F:709:LEU:HA	1:F:712:LEU:CG	2.34	0.56
1:A:700:LEU:HD21	1:A:702:LEU:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:396:LEU:HD13	1:B:426:ARG:NH1	2.21	0.56
1:B:505:LEU:HA	1:B:773:PRO:HD2	1.88	0.56
1:B:693:LEU:HD13	1:B:699:ILE:HD11	1.86	0.56
1:C:318:ARG:HH12	1:C:337:LYS:HE2	1.70	0.56
1:C:693:LEU:HD13	1:C:699:ILE:HD11	1.87	0.56
1:D:279:LYS:O	1:D:283:MET:HB3	2.05	0.56
1:D:635:ASP:OD1	1:D:669:PRO:HD2	2.05	0.56
1:D:1176:GLU:O	1:D:1179:ARG:HG3	2.05	0.56
1:F:337:LYS:HG3	1:F:371:ASP:HB3	1.86	0.56
1:F:464:CYS:SG	1:F:467:LEU:HB2	2.46	0.56
1:A:688:SER:O	1:A:692:ARG:N	2.37	0.56
1:A:1132:THR:OG1	1:A:1133:PRO:HD3	2.06	0.56
1:C:293:GLN:HA	1:C:296:ASN:HB3	1.86	0.56
1:C:568:SER:C	1:C:569:LYS:HD3	2.30	0.56
1:C:635:ASP:OD1	1:C:669:PRO:HD2	2.05	0.56
1:C:757:GLY:HA3	1:C:1165:LYS:CD	2.35	0.56
1:E:334:TYR:CE1	1:E:359:GLU:HG3	2.41	0.56
1:E:380:ARG:HH12	1:F:375:GLY:HA3	1.71	0.56
1:E:396:LEU:HD13	1:E:426:ARG:NH1	2.21	0.56
1:E:688:SER:O	1:E:692:ARG:N	2.37	0.56
1:A:505:LEU:HA	1:A:773:PRO:HD2	1.88	0.56
1:A:1176:GLU:O	1:A:1179:ARG:HG3	2.05	0.56
1:C:396:LEU:HD13	1:C:426:ARG:NH1	2.21	0.56
1:D:505:LEU:HA	1:D:773:PRO:HD2	1.88	0.56
1:D:700:LEU:HD21	1:D:702:LEU:HB2	1.88	0.56
1:E:464:CYS:SG	1:E:467:LEU:HB2	2.46	0.56
1:F:318:ARG:HA	1:F:321:ALA:HB3	1.88	0.56
1:F:359:GLU:HA	1:F:362:SER:OG	2.05	0.56
1:A:334:TYR:CE1	1:A:359:GLU:HG3	2.41	0.56
1:B:392:VAL:HA	1:B:395:LEU:HD21	1.88	0.56
1:B:1132:THR:OG1	1:B:1133:PRO:HD3	2.06	0.56
1:C:289:PRO:HA	1:C:292:PHE:CD1	2.41	0.56
1:C:577:MET:HG2	1:C:578:TYR:CE1	2.41	0.56
1:D:396:LEU:HD13	1:D:426:ARG:NH1	2.21	0.56
1:D:757:GLY:HA3	1:D:1165:LYS:CD	2.35	0.56
1:E:423:ALA:HA	1:E:426:ARG:CD	2.33	0.56
1:E:463:LEU:O	1:E:466:MET:HG2	2.06	0.56
1:E:611:LYS:HE3	1:E:706:SER:OG	2.06	0.56
1:E:693:LEU:HD13	1:E:699:ILE:HD11	1.87	0.56
1:F:392:VAL:HA	1:F:395:LEU:HD21	1.88	0.56
1:F:568:SER:C	1:F:569:LYS:HD3	2.30	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:604:ARG:NE	1:F:720:PHE:HA	2.19	0.56
1:F:1175:ASP:N	1:F:1175:ASP:OD1	2.38	0.56
1:A:392:VAL:HA	1:A:395:LEU:HD21	1.88	0.56
1:A:540:PRO:N	1:A:624:GLN:HG2	2.20	0.56
1:B:289:PRO:HA	1:B:292:PHE:CD1	2.41	0.56
1:B:394:THR:O	1:B:398:LEU:HG	2.06	0.56
1:B:463:LEU:O	1:B:466:MET:HG2	2.06	0.56
1:B:677:VAL:HB	1:B:678:LEU:HD22	1.86	0.56
1:C:392:VAL:HA	1:C:395:LEU:HD21	1.88	0.56
1:C:463:LEU:O	1:C:466:MET:HG2	2.06	0.56
1:D:577:MET:HG2	1:D:578:TYR:CE1	2.41	0.56
1:D:1132:THR:OG1	1:D:1133:PRO:HD3	2.06	0.56
1:E:677:VAL:HB	1:E:678:LEU:HD22	1.86	0.56
1:E:763:ARG:HH11	1:E:764:ARG:H	1.51	0.56
1:E:1132:THR:OG1	1:E:1133:PRO:HD3	2.06	0.56
1:F:587:GLU:O	1:F:590:GLN:HG2	2.05	0.56
1:A:1161:ILE:HA	1:A:1164:THR:OG1	2.04	0.56
1:B:279:LYS:O	1:B:283:MET:HB3	2.05	0.56
1:B:295:PHE:HE2	1:C:457:PRO:HG2	1.71	0.56
1:C:318:ARG:HA	1:C:321:ALA:HB3	1.88	0.56
1:C:709:LEU:HA	1:C:712:LEU:CG	2.34	0.56
1:C:723:LYS:HD3	1:D:1186:ILE:CD1	2.36	0.56
1:D:334:TYR:CE1	1:D:359:GLU:HG3	2.41	0.56
1:D:604:ARG:CA	1:D:701:PHE:HB3	2.30	0.56
1:E:318:ARG:HH12	1:E:337:LYS:HE2	1.70	0.56
1:E:337:LYS:HG3	1:E:371:ASP:HB3	1.86	0.56
1:E:392:VAL:HA	1:E:395:LEU:HD21	1.88	0.56
1:E:603:PRO:HB2	1:E:700:LEU:HA	1.87	0.56
1:E:705:SER:OG	1:E:707:SER:O	2.23	0.56
1:F:757:GLY:HA3	1:F:1165:LYS:CD	2.35	0.56
1:A:464:CYS:SG	1:A:467:LEU:HB2	2.46	0.56
1:C:769:LEU:O	1:C:771:LEU:HD23	2.06	0.56
1:D:1175:ASP:OD1	1:D:1175:ASP:N	2.39	0.56
1:E:292:PHE:HD2	1:F:256:PRO:HA	1.71	0.56
1:E:491:ILE:O	1:E:494:THR:OG1	2.21	0.56
1:F:463:LEU:O	1:F:466:MET:HG2	2.06	0.56
1:F:1176:GLU:O	1:F:1179:ARG:HG3	2.05	0.56
1:A:359:GLU:HA	1:A:362:SER:OG	2.06	0.55
1:B:705:SER:OG	1:B:707:SER:O	2.23	0.55
1:C:394:THR:O	1:C:398:LEU:HG	2.06	0.55
1:C:700:LEU:HD21	1:C:702:LEU:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:359:GLU:HA	1:D:362:SER:OG	2.05	0.55
1:E:604:ARG:HB2	1:E:701:PHE:CD2	2.37	0.55
1:E:700:LEU:HD21	1:E:702:LEU:HB2	1.88	0.55
1:E:769:LEU:O	1:E:771:LEU:HD23	2.06	0.55
1:F:396:LEU:HD13	1:F:426:ARG:NH1	2.21	0.55
1:F:463:LEU:HD23	1:F:464:CYS:H	1.72	0.55
1:F:700:LEU:HD21	1:F:702:LEU:HB2	1.88	0.55
1:F:1132:THR:OG1	1:F:1133:PRO:HD3	2.06	0.55
1:A:318:ARG:HH12	1:A:337:LYS:HE2	1.70	0.55
1:A:445:LYS:O	1:A:449:GLU:HG3	2.07	0.55
1:B:399:MET:HG3	1:B:429:ARG:CG	2.35	0.55
1:B:577:MET:HG2	1:B:578:TYR:CE1	2.41	0.55
1:B:689:MET:CA	1:B:692:ARG:HB2	2.34	0.55
1:B:744:ILE:HA	1:B:747:LEU:HD12	1.88	0.55
1:C:301:ARG:HE	1:C:405:ARG:HB3	1.69	0.55
1:C:334:TYR:CE1	1:C:359:GLU:HG3	2.41	0.55
1:C:359:GLU:HA	1:C:362:SER:OG	2.05	0.55
1:C:463:LEU:HD23	1:C:464:CYS:H	1.72	0.55
1:C:505:LEU:HA	1:C:773:PRO:HD2	1.88	0.55
1:E:577:MET:HG2	1:E:578:TYR:CE1	2.41	0.55
1:F:289:PRO:HA	1:F:292:PHE:CD1	2.41	0.55
1:F:318:ARG:HH12	1:F:337:LYS:HE2	1.70	0.55
1:F:445:LYS:O	1:F:449:GLU:HG3	2.06	0.55
1:A:292:PHE:CE2	1:A:299:PRO:HD2	2.42	0.55
1:A:394:THR:O	1:A:398:LEU:HG	2.06	0.55
1:B:464:CYS:SG	1:B:467:LEU:HB2	2.46	0.55
1:B:700:LEU:HD21	1:B:702:LEU:HB2	1.88	0.55
1:B:739:ALA:HA	1:B:742:GLN:HB2	1.88	0.55
1:C:655:PHE:HB3	1:C:689:MET:HE2	1.89	0.55
1:C:692:ARG:NH1	1:C:692:ARG:HA	2.21	0.55
1:D:358:GLU:O	1:D:362:SER:N	2.37	0.55
1:D:394:THR:O	1:D:398:LEU:HG	2.06	0.55
1:D:634:PHE:HB2	1:D:668:ILE:HD11	1.89	0.55
1:F:505:LEU:HA	1:F:773:PRO:HD2	1.88	0.55
1:F:577:MET:HG2	1:F:578:TYR:CE1	2.41	0.55
1:F:634:PHE:HB2	1:F:668:ILE:HD11	1.89	0.55
1:F:769:LEU:O	1:F:771:LEU:HD23	2.06	0.55
1:A:441:ARG:C	1:A:444:ARG:HB3	2.32	0.55
1:A:634:PHE:HB2	1:A:668:ILE:HD11	1.89	0.55
1:D:292:PHE:CE2	1:D:299:PRO:HD2	2.42	0.55
1:D:611:LYS:HE3	1:D:706:SER:OG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:394:THR:O	1:E:398:LEU:HG	2.06	0.55
1:F:334:TYR:CE1	1:F:359:GLU:HG3	2.41	0.55
1:F:688:SER:O	1:F:692:ARG:N	2.37	0.55
1:A:283:MET:SD	1:A:287:LEU:HB2	2.47	0.55
1:A:603:PRO:HB2	1:A:700:LEU:HA	1.87	0.55
1:A:705:SER:OG	1:A:707:SER:O	2.23	0.55
1:B:359:GLU:HA	1:B:362:SER:OG	2.05	0.55
1:B:463:LEU:HD23	1:B:464:CYS:H	1.72	0.55
1:C:599:ARG:HB3	1:D:1159:GLN:OE1	2.06	0.55
1:D:463:LEU:HD23	1:D:464:CYS:H	1.72	0.55
1:D:692:ARG:NH1	1:D:692:ARG:HA	2.21	0.55
1:D:723:LYS:HD3	1:E:1186:ILE:CD1	2.37	0.55
1:E:463:LEU:HD23	1:E:464:CYS:H	1.72	0.55
1:E:689:MET:CA	1:E:692:ARG:HB2	2.34	0.55
1:E:744:ILE:HA	1:E:747:LEU:HD12	1.88	0.55
1:F:284:LEU:HA	1:F:287:LEU:HB3	1.89	0.55
1:A:289:PRO:HA	1:A:292:PHE:CD1	2.41	0.55
1:B:334:TYR:CE1	1:B:359:GLU:HG3	2.41	0.55
1:D:283:MET:SD	1:D:287:LEU:HB2	2.47	0.55
1:D:289:PRO:HA	1:D:292:PHE:CD1	2.41	0.55
1:D:463:LEU:O	1:D:466:MET:HG2	2.06	0.55
1:D:480:ARG:HA	1:D:483:CYS:SG	2.47	0.55
1:D:705:SER:OG	1:D:707:SER:O	2.23	0.55
1:E:318:ARG:HA	1:E:321:ALA:HB3	1.88	0.55
1:A:284:LEU:HA	1:A:287:LEU:HB3	1.89	0.55
1:A:396:LEU:HD13	1:A:426:ARG:NH1	2.21	0.55
1:A:463:LEU:HD23	1:A:464:CYS:H	1.72	0.55
1:A:546:LYS:HB3	1:A:550:ASN:ND2	2.19	0.55
1:B:441:ARG:C	1:B:444:ARG:HB3	2.32	0.55
1:B:611:LYS:HE3	1:B:706:SER:OG	2.06	0.55
1:C:334:TYR:OH	1:C:363:THR:OG1	2.18	0.55
1:C:445:LYS:O	1:C:449:GLU:HG3	2.07	0.55
1:C:634:PHE:HB2	1:C:668:ILE:HD11	1.89	0.55
1:D:689:MET:CA	1:D:692:ARG:HB2	2.34	0.55
1:E:441:ARG:NH2	1:E:468:ALA:O	2.30	0.55
1:F:480:ARG:HA	1:F:483:CYS:SG	2.47	0.55
1:F:611:LYS:HE3	1:F:706:SER:OG	2.06	0.55
1:F:739:ALA:HA	1:F:742:GLN:HB2	1.88	0.55
1:A:463:LEU:O	1:A:466:MET:HG2	2.06	0.55
1:A:577:MET:HG2	1:A:578:TYR:CE1	2.41	0.55
1:A:655:PHE:HB3	1:A:689:MET:HE2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:769:LEU:O	1:B:771:LEU:HD23	2.06	0.55
1:C:1175:ASP:N	1:C:1175:ASP:OD1	2.38	0.55
1:D:441:ARG:C	1:D:444:ARG:HB3	2.32	0.55
1:E:441:ARG:C	1:E:444:ARG:HB3	2.32	0.55
1:E:692:ARG:NH1	1:E:692:ARG:HA	2.21	0.55
1:A:1130:ARG:CZ	1:A:1171:ASN:HB2	2.37	0.55
1:C:292:PHE:CE2	1:C:299:PRO:HD2	2.42	0.55
1:C:606:LEU:HB2	1:C:720:PHE:CZ	2.42	0.55
1:C:611:LYS:HE3	1:C:706:SER:OG	2.06	0.55
1:E:579:ASP:OD2	1:F:515:LYS:NZ	2.37	0.55
1:A:480:ARG:HA	1:A:483:CYS:SG	2.47	0.55
1:B:480:ARG:HA	1:B:483:CYS:SG	2.47	0.55
1:C:356:LEU:HD13	1:C:359:GLU:OE2	2.07	0.55
1:C:399:MET:HG3	1:C:429:ARG:CG	2.35	0.55
1:C:480:ARG:HA	1:C:483:CYS:SG	2.47	0.55
1:C:744:ILE:HA	1:C:747:LEU:HD12	1.88	0.55
1:D:284:LEU:HA	1:D:287:LEU:HB3	1.89	0.55
1:D:1130:ARG:CZ	1:D:1171:ASN:HB2	2.37	0.55
1:D:1182:LYS:HA	1:D:1185:MET:HE1	1.88	0.55
1:E:480:ARG:HA	1:E:483:CYS:SG	2.47	0.55
1:E:604:ARG:NE	1:E:720:PHE:HA	2.19	0.55
1:E:1130:ARG:CZ	1:E:1171:ASN:HB2	2.37	0.55
1:E:1182:LYS:HA	1:E:1185:MET:CE	2.37	0.55
1:F:606:LEU:HB2	1:F:720:PHE:CZ	2.42	0.55
1:A:586:PHE:HB3	1:B:466:MET:HE1	1.88	0.54
1:A:744:ILE:HA	1:A:747:LEU:HD12	1.88	0.54
1:A:769:LEU:O	1:A:771:LEU:HD23	2.06	0.54
1:B:264:SER:CA	1:B:322:ALA:HB3	2.37	0.54
1:B:325:SER:HB2	1:B:333:PHE:HZ	1.73	0.54
1:B:603:PRO:HB2	1:B:700:LEU:HA	1.87	0.54
1:C:284:LEU:HA	1:C:287:LEU:HB3	1.89	0.54
1:C:739:ALA:HA	1:C:742:GLN:HB2	1.88	0.54
1:D:744:ILE:HA	1:D:747:LEU:HD12	1.88	0.54
1:D:1182:LYS:HA	1:D:1185:MET:CE	2.37	0.54
1:A:689:MET:CA	1:A:692:ARG:HB2	2.34	0.54
1:B:286:LEU:HD22	1:B:328:ASN:HD21	1.73	0.54
1:B:292:PHE:CE2	1:B:299:PRO:HD2	2.42	0.54
1:B:356:LEU:HD13	1:B:359:GLU:OE2	2.07	0.54
1:B:1182:LYS:HA	1:B:1185:MET:CE	2.37	0.54
1:D:325:SER:HB2	1:D:333:PHE:HZ	1.73	0.54
1:D:571:ASN:HB3	1:D:574:GLU:OE1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:655:PHE:HB3	1:D:689:MET:HE2	1.89	0.54
1:D:769:LEU:O	1:D:771:LEU:HD23	2.06	0.54
1:E:289:PRO:HA	1:E:292:PHE:CD1	2.41	0.54
1:E:655:PHE:HB3	1:E:689:MET:HE2	1.89	0.54
1:E:1182:LYS:HA	1:E:1185:MET:HE1	1.88	0.54
1:F:286:LEU:HD22	1:F:328:ASN:HD21	1.73	0.54
1:F:356:LEU:HD13	1:F:359:GLU:OE2	2.07	0.54
1:A:524:LYS:HB2	1:A:525:ARG:HH11	1.73	0.54
1:A:606:LEU:HB2	1:A:720:PHE:CZ	2.42	0.54
1:A:611:LYS:HE3	1:A:706:SER:OG	2.06	0.54
1:A:1182:LYS:HA	1:A:1185:MET:CE	2.37	0.54
1:B:692:ARG:NH1	1:B:692:ARG:HA	2.21	0.54
1:C:524:LYS:HB2	1:C:525:ARG:HH11	1.73	0.54
1:C:1130:ARG:CZ	1:C:1171:ASN:HB2	2.37	0.54
1:D:274:TYR:HB3	1:D:434:PHE:HE1	1.73	0.54
1:D:488:LEU:HA	1:D:491:ILE:HG12	1.89	0.54
1:D:524:LYS:HB2	1:D:525:ARG:HH11	1.73	0.54
1:E:488:LEU:HA	1:E:491:ILE:HG12	1.89	0.54
1:E:667:TYR:OH	1:E:669:PRO:HG3	2.08	0.54
1:E:739:ALA:HA	1:E:742:GLN:HB2	1.88	0.54
1:F:394:THR:O	1:F:398:LEU:HG	2.06	0.54
1:F:667:TYR:OH	1:F:669:PRO:HG3	2.08	0.54
1:A:520:VAL:HG21	1:F:589:GLN:HG3	1.89	0.54
1:A:569:LYS:HD3	1:A:569:LYS:N	2.23	0.54
1:A:667:TYR:OH	1:A:669:PRO:HG3	2.08	0.54
1:C:1182:LYS:HA	1:C:1185:MET:CE	2.37	0.54
1:D:264:SER:CA	1:D:322:ALA:HB3	2.37	0.54
1:D:667:TYR:OH	1:D:669:PRO:HG3	2.08	0.54
1:E:445:LYS:O	1:E:449:GLU:HG3	2.07	0.54
1:F:292:PHE:CE2	1:F:299:PRO:HD2	2.42	0.54
1:F:655:PHE:HB3	1:F:689:MET:HE2	1.89	0.54
1:F:744:ILE:HA	1:F:747:LEU:HD12	1.88	0.54
1:F:1182:LYS:HA	1:F:1185:MET:HE1	1.88	0.54
1:A:286:LEU:HD22	1:A:328:ASN:HD21	1.73	0.54
1:A:488:LEU:HA	1:A:491:ILE:HG12	1.89	0.54
1:A:692:ARG:NH1	1:A:692:ARG:HA	2.21	0.54
1:A:1175:ASP:OD1	1:A:1175:ASP:N	2.38	0.54
1:B:524:LYS:HB2	1:B:525:ARG:HH11	1.73	0.54
1:B:655:PHE:HB3	1:B:689:MET:HE2	1.89	0.54
1:B:1182:LYS:HA	1:B:1185:MET:HE1	1.88	0.54
1:D:392:VAL:HA	1:D:395:LEU:HD21	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:284:LEU:HA	1:E:287:LEU:HB3	1.89	0.54
1:E:325:SER:HB2	1:E:333:PHE:HZ	1.73	0.54
1:F:283:MET:SD	1:F:287:LEU:HB2	2.47	0.54
1:F:370:PHE:O	1:F:413:ALA:N	2.40	0.54
1:F:441:ARG:C	1:F:444:ARG:HB3	2.32	0.54
1:F:524:LYS:HB2	1:F:525:ARG:HH11	1.73	0.54
1:F:632:GLN:NE2	1:F:666:ILE:HD13	2.23	0.54
1:F:1130:ARG:CZ	1:F:1171:ASN:HB2	2.37	0.54
1:A:1182:LYS:HA	1:A:1185:MET:HE1	1.88	0.54
1:B:318:ARG:HA	1:B:321:ALA:HB3	1.88	0.54
1:B:370:PHE:O	1:B:413:ALA:N	2.40	0.54
1:B:632:GLN:OE1	1:B:654:LEU:HD21	2.08	0.54
1:C:271:LEU:CD2	1:C:437:PRO:HD2	2.37	0.54
1:C:667:TYR:OH	1:C:669:PRO:HG3	2.08	0.54
1:D:356:LEU:HD13	1:D:359:GLU:OE2	2.07	0.54
1:F:692:ARG:NH1	1:F:692:ARG:HA	2.21	0.54
1:A:312:GLY:O	1:A:313:LYS:NZ	2.38	0.54
1:A:356:LEU:HD13	1:A:359:GLU:OE2	2.07	0.54
1:A:392:VAL:HA	1:A:395:LEU:CD2	2.38	0.54
1:A:632:GLN:OE1	1:A:654:LEU:HD21	2.08	0.54
1:B:284:LEU:HA	1:B:287:LEU:HB3	1.89	0.54
1:B:1130:ARG:CZ	1:B:1171:ASN:HB2	2.37	0.54
1:C:264:SER:CA	1:C:322:ALA:HB3	2.37	0.54
1:C:325:SER:HB2	1:C:333:PHE:HZ	1.73	0.54
1:D:333:PHE:HB3	1:D:369:PHE:CE2	2.34	0.54
1:D:445:LYS:O	1:D:449:GLU:HG3	2.07	0.54
1:D:546:LYS:HB3	1:D:550:ASN:ND2	2.19	0.54
1:E:274:TYR:HB3	1:E:434:PHE:HE1	1.73	0.54
1:E:1149:GLN:HA	1:E:1152:HIS:ND1	2.23	0.54
1:F:497:GLN:OE1	1:F:500:ARG:NH2	2.41	0.54
1:F:689:MET:CA	1:F:692:ARG:HB2	2.34	0.54
1:F:1182:LYS:HA	1:F:1185:MET:CE	2.37	0.54
1:A:571:ASN:HB3	1:A:574:GLU:OE1	2.07	0.54
1:B:274:TYR:HB3	1:B:434:PHE:HE1	1.73	0.54
1:C:441:ARG:C	1:C:444:ARG:HB3	2.32	0.54
1:C:497:GLN:OE1	1:C:500:ARG:NH2	2.41	0.54
1:C:571:ASN:HB3	1:C:574:GLU:OE1	2.07	0.54
1:C:1182:LYS:HA	1:C:1185:MET:HE1	1.88	0.54
1:E:524:LYS:HB2	1:E:525:ARG:HH11	1.73	0.54
1:E:606:LEU:HB2	1:E:720:PHE:CZ	2.42	0.54
1:F:264:SER:CA	1:F:322:ALA:HB3	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:336:ARG:C	1:F:337:LYS:HD2	2.33	0.54
1:A:336:ARG:C	1:A:337:LYS:HD2	2.33	0.54
1:A:449:GLU:HB3	1:A:453:ARG:HH22	1.73	0.54
1:A:739:ALA:HA	1:A:742:GLN:HB2	1.88	0.54
1:B:488:LEU:HA	1:B:491:ILE:HG12	1.89	0.54
1:B:1149:GLN:HA	1:B:1152:HIS:ND1	2.23	0.54
1:C:336:ARG:C	1:C:337:LYS:HD2	2.33	0.54
1:D:271:LEU:CD2	1:D:437:PRO:HD2	2.37	0.54
1:D:286:LEU:HD22	1:D:328:ASN:HD21	1.73	0.54
1:D:392:VAL:HA	1:D:395:LEU:CD2	2.38	0.54
1:D:632:GLN:NE2	1:D:666:ILE:HD13	2.23	0.54
1:D:723:LYS:HD3	1:E:1186:ILE:HD13	1.88	0.54
1:D:743:PRO:O	1:D:747:LEU:HG	2.08	0.54
1:E:283:MET:SD	1:E:287:LEU:HB2	2.47	0.54
1:E:356:LEU:HD13	1:E:359:GLU:OE2	2.07	0.54
1:E:571:ASN:HB3	1:E:574:GLU:OE1	2.07	0.54
1:F:1149:GLN:HA	1:F:1152:HIS:ND1	2.23	0.54
1:A:318:ARG:HA	1:A:321:ALA:HB3	1.88	0.54
1:B:283:MET:SD	1:B:287:LEU:HB2	2.47	0.54
1:B:336:ARG:C	1:B:337:LYS:HD2	2.33	0.54
1:B:392:VAL:HA	1:B:395:LEU:CD2	2.38	0.54
1:B:571:ASN:HB3	1:B:574:GLU:OE1	2.07	0.54
1:B:667:TYR:OH	1:B:669:PRO:HG3	2.08	0.54
1:B:743:PRO:O	1:B:747:LEU:HG	2.08	0.54
1:C:283:MET:SD	1:C:287:LEU:HB2	2.47	0.54
1:C:604:ARG:HH21	1:C:720:PHE:HA	1.73	0.54
1:D:606:LEU:HB2	1:D:720:PHE:CZ	2.42	0.54
1:D:632:GLN:OE1	1:D:654:LEU:HD21	2.08	0.54
1:D:739:ALA:HA	1:D:742:GLN:HB2	1.88	0.54
1:E:264:SER:CA	1:E:322:ALA:HB3	2.37	0.54
1:E:634:PHE:HB2	1:E:668:ILE:HD11	1.89	0.54
1:F:604:ARG:HH21	1:F:720:PHE:HA	1.73	0.54
1:A:264:SER:CA	1:A:322:ALA:HB3	2.37	0.53
1:A:580:ASP:HB2	1:A:582:LYS:HZ1	1.73	0.53
1:A:583:GLU:HG2	1:B:517:LYS:HD2	1.91	0.53
1:B:445:LYS:O	1:B:449:GLU:HG3	2.07	0.53
1:B:491:ILE:O	1:B:494:THR:OG1	2.21	0.53
1:B:497:GLN:OE1	1:B:500:ARG:NH2	2.41	0.53
1:B:599:ARG:CG	1:C:1158:TYR:HB3	2.26	0.53
1:C:358:GLU:OE1	1:C:359:GLU:N	2.42	0.53
1:D:630:HIS:HB3	1:D:664:SER:CA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:632:GLN:NE2	1:E:666:ILE:HD13	2.23	0.53
1:E:743:PRO:O	1:E:747:LEU:HG	2.08	0.53
1:F:392:VAL:HA	1:F:395:LEU:CD2	2.38	0.53
1:F:571:ASN:HB3	1:F:574:GLU:OE1	2.07	0.53
1:A:271:LEU:CD2	1:A:437:PRO:HD2	2.37	0.53
1:A:274:TYR:HB3	1:A:434:PHE:CE1	2.44	0.53
1:A:325:SER:HB2	1:A:333:PHE:HZ	1.73	0.53
1:C:328:ASN:O	1:C:330:LYS:HA	2.09	0.53
1:C:1149:GLN:HA	1:C:1152:HIS:ND1	2.23	0.53
1:D:274:TYR:HB3	1:D:434:PHE:CE1	2.44	0.53
1:D:318:ARG:HA	1:D:321:ALA:HB3	1.88	0.53
1:D:358:GLU:OE1	1:D:359:GLU:N	2.42	0.53
1:F:399:MET:HG3	1:F:429:ARG:CG	2.35	0.53
1:F:1155:SER:O	1:F:1159:GLN:HG2	2.09	0.53
1:A:370:PHE:O	1:A:413:ALA:N	2.40	0.53
1:B:295:PHE:HE2	1:C:457:PRO:HD2	1.74	0.53
1:B:441:ARG:NH2	1:B:468:ALA:O	2.30	0.53
1:B:506:GLN:OE1	1:B:506:GLN:N	2.42	0.53
1:B:604:ARG:NE	1:B:720:PHE:HA	2.19	0.53
1:B:604:ARG:HH21	1:B:720:PHE:HA	1.73	0.53
1:B:606:LEU:HB2	1:B:720:PHE:CZ	2.42	0.53
1:B:634:PHE:HB2	1:B:668:ILE:HD11	1.89	0.53
1:C:544:GLU:OE1	1:C:544:GLU:N	2.36	0.53
1:C:634:PHE:O	1:C:639:LEU:HD11	2.09	0.53
1:E:271:LEU:CD2	1:E:437:PRO:HD2	2.37	0.53
1:E:333:PHE:HB3	1:E:369:PHE:CE2	2.34	0.53
1:E:336:ARG:C	1:E:337:LYS:HD2	2.33	0.53
1:F:325:SER:HB2	1:F:333:PHE:HZ	1.73	0.53
1:F:488:LEU:HA	1:F:491:ILE:HG12	1.89	0.53
1:F:743:PRO:O	1:F:747:LEU:HG	2.08	0.53
1:A:328:ASN:O	1:A:330:LYS:HA	2.08	0.53
1:A:506:GLN:OE1	1:A:506:GLN:N	2.42	0.53
1:B:581:PRO:HD2	1:B:582:LYS:NZ	2.23	0.53
1:C:392:VAL:HA	1:C:395:LEU:CD2	2.38	0.53
1:D:336:ARG:C	1:D:337:LYS:HD2	2.33	0.53
1:E:292:PHE:CE2	1:E:299:PRO:HD2	2.42	0.53
1:E:485:GLU:OE1	1:E:522:SER:HA	2.09	0.53
1:E:634:PHE:O	1:E:639:LEU:HD11	2.09	0.53
1:F:271:LEU:CD2	1:F:437:PRO:HD2	2.37	0.53
1:A:274:TYR:HB3	1:A:434:PHE:HE1	1.73	0.53
1:A:581:PRO:HD2	1:A:582:LYS:NZ	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:632:GLN:NE2	1:A:666:ILE:HD13	2.23	0.53
1:C:488:LEU:HA	1:C:491:ILE:HG12	1.89	0.53
1:D:634:PHE:O	1:D:639:LEU:HD11	2.09	0.53
1:E:274:TYR:HB3	1:E:434:PHE:CE1	2.44	0.53
1:E:546:LYS:HB3	1:E:550:ASN:ND2	2.19	0.53
1:E:569:LYS:HD3	1:E:569:LYS:N	2.23	0.53
1:A:485:GLU:OE1	1:A:522:SER:HA	2.09	0.53
1:B:271:LEU:CD2	1:B:437:PRO:HD2	2.37	0.53
1:B:601:TYR:OH	1:C:1148:ASP:HB2	2.08	0.53
1:B:1155:SER:O	1:B:1159:GLN:HG2	2.08	0.53
1:C:274:TYR:HB3	1:C:434:PHE:CE1	2.44	0.53
1:C:632:GLN:NE2	1:C:666:ILE:HD13	2.23	0.53
1:D:294:ARG:NH2	1:E:507:ILE:HD11	2.23	0.53
1:D:583:GLU:HG3	1:E:517:LYS:HB2	1.91	0.53
1:D:604:ARG:HH21	1:D:720:PHE:HA	1.73	0.53
1:D:1155:SER:O	1:D:1159:GLN:HG2	2.09	0.53
1:E:286:LEU:HD22	1:E:328:ASN:HD21	1.73	0.53
1:E:497:GLN:OE1	1:E:500:ARG:NH2	2.41	0.53
1:F:274:TYR:HB3	1:F:434:PHE:CE1	2.44	0.53
1:F:328:ASN:O	1:F:330:LYS:HA	2.09	0.53
1:F:546:LYS:HB3	1:F:550:ASN:ND2	2.19	0.53
1:A:496:PRO:HD2	1:A:766:LEU:CD2	2.30	0.53
1:A:604:ARG:HH21	1:A:720:PHE:HA	1.73	0.53
1:B:328:ASN:O	1:B:330:LYS:HA	2.09	0.53
1:B:492:LYS:CD	1:B:498:LEU:HD12	2.39	0.53
1:B:634:PHE:O	1:B:639:LEU:HD11	2.09	0.53
1:C:274:TYR:HB3	1:C:434:PHE:HE1	1.73	0.53
1:C:632:GLN:OE1	1:C:654:LEU:HD21	2.08	0.53
1:C:1155:SER:O	1:C:1159:GLN:HG2	2.09	0.53
1:D:328:ASN:O	1:D:330:LYS:HA	2.09	0.53
1:E:392:VAL:HA	1:E:395:LEU:CD2	2.38	0.53
1:E:464:CYS:SG	1:E:467:LEU:HD13	2.49	0.53
1:E:630:HIS:HB3	1:E:664:SER:CA	2.38	0.53
1:F:358:GLU:OE1	1:F:359:GLU:N	2.42	0.53
1:A:743:PRO:O	1:A:747:LEU:HG	2.08	0.53
1:B:274:TYR:HB3	1:B:434:PHE:CE1	2.44	0.53
1:C:427:PRO:HA	1:C:431:ASP:HA	1.91	0.53
1:C:485:GLU:OE1	1:C:522:SER:HA	2.09	0.53
1:C:743:PRO:O	1:C:747:LEU:HG	2.08	0.53
1:D:449:GLU:HB3	1:D:453:ARG:HH22	1.73	0.53
1:D:470:LYS:CE	1:D:523:MET:HG3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:569:LYS:HD3	1:D:569:LYS:N	2.23	0.53
1:D:610:ARG:NH1	1:D:610:ARG:HA	2.24	0.53
1:E:1155:SER:O	1:E:1159:GLN:HG2	2.09	0.53
1:A:358:GLU:OE1	1:A:359:GLU:N	2.42	0.53
1:A:630:HIS:HB3	1:A:664:SER:CA	2.38	0.53
1:A:1155:SER:O	1:A:1159:GLN:HG2	2.09	0.53
1:B:358:GLU:OE1	1:B:359:GLU:N	2.42	0.53
1:B:546:LYS:HB3	1:B:550:ASN:ND2	2.18	0.53
1:C:286:LEU:HD22	1:C:328:ASN:HD21	1.73	0.53
1:C:546:LYS:HB3	1:C:550:ASN:ND2	2.19	0.53
1:D:485:GLU:OE1	1:D:522:SER:HA	2.09	0.53
1:D:506:GLN:OE1	1:D:506:GLN:N	2.42	0.53
1:E:506:GLN:OE1	1:E:506:GLN:N	2.42	0.53
1:E:640:LEU:HD13	1:E:647:ILE:HD13	1.91	0.53
1:F:485:GLU:OE1	1:F:522:SER:HA	2.09	0.53
1:F:632:GLN:OE1	1:F:654:LEU:HD21	2.08	0.53
1:F:640:LEU:HD13	1:F:647:ILE:HD13	1.91	0.53
1:F:713:HIS:O	1:F:717:ARG:HG3	2.09	0.53
1:A:427:PRO:HA	1:A:431:ASP:HA	1.91	0.53
1:A:610:ARG:NH1	1:A:610:ARG:HA	2.24	0.53
1:A:634:PHE:O	1:A:639:LEU:HD11	2.09	0.53
1:A:713:HIS:O	1:A:717:ARG:HG3	2.09	0.53
1:B:380:ARG:HH22	1:C:375:GLY:HA2	1.74	0.53
1:B:668:ILE:O	1:B:703:ALA:HA	2.09	0.53
1:C:333:PHE:HB3	1:C:369:PHE:CE2	2.34	0.53
1:C:370:PHE:O	1:C:413:ALA:N	2.40	0.53
1:C:640:LEU:HD13	1:C:647:ILE:HD13	1.91	0.53
1:C:713:HIS:O	1:C:717:ARG:HG3	2.09	0.53
1:D:374:ASP:HB3	1:D:419:ALA:CB	2.39	0.53
1:D:491:ILE:O	1:D:494:THR:OG1	2.21	0.53
1:E:328:ASN:O	1:E:330:LYS:HA	2.08	0.53
1:E:632:GLN:OE1	1:E:654:LEU:HD21	2.08	0.53
1:E:668:ILE:O	1:E:703:ALA:HA	2.09	0.53
1:F:274:TYR:HB3	1:F:434:PHE:HE1	1.73	0.53
1:F:569:LYS:HD3	1:F:569:LYS:N	2.23	0.53
1:F:630:HIS:HB3	1:F:664:SER:CA	2.38	0.53
1:F:634:PHE:O	1:F:639:LEU:HD11	2.09	0.53
1:A:294:ARG:NH2	1:B:507:ILE:HD11	2.24	0.52
1:A:374:ASP:HB3	1:A:419:ALA:CB	2.40	0.52
1:A:470:LYS:CE	1:A:523:MET:HG3	2.39	0.52
1:A:491:ILE:O	1:A:494:THR:OG1	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:358:GLU:O	1:B:362:SER:N	2.37	0.52
1:C:464:CYS:SG	1:C:467:LEU:HD13	2.49	0.52
1:C:581:PRO:HD2	1:C:582:LYS:NZ	2.23	0.52
1:D:464:CYS:SG	1:D:467:LEU:HD13	2.49	0.52
1:D:581:PRO:HD2	1:D:582:LYS:NZ	2.23	0.52
1:D:713:HIS:O	1:D:717:ARG:HG3	2.09	0.52
1:E:358:GLU:OE1	1:E:359:GLU:N	2.42	0.52
1:E:604:ARG:HH21	1:E:720:PHE:HA	1.73	0.52
1:E:753:THR:HA	1:E:759:ILE:HD11	1.91	0.52
1:F:486:ALA:HB2	1:F:522:SER:OG	2.09	0.52
1:B:374:ASP:HB3	1:B:419:ALA:CB	2.40	0.52
1:B:632:GLN:NE2	1:B:666:ILE:HD13	2.23	0.52
1:C:506:GLN:N	1:C:506:GLN:OE1	2.42	0.52
1:D:486:ALA:HB2	1:D:522:SER:OG	2.09	0.52
1:D:497:GLN:OE1	1:D:500:ARG:NH2	2.41	0.52
1:D:1149:GLN:HA	1:D:1152:HIS:ND1	2.23	0.52
1:E:563:LEU:HD11	1:E:724:GLN:O	2.09	0.52
1:F:333:PHE:HB3	1:F:369:PHE:CE2	2.34	0.52
1:F:610:ARG:NH1	1:F:610:ARG:HA	2.24	0.52
1:A:486:ALA:HB2	1:A:522:SER:OG	2.09	0.52
1:A:1149:GLN:HA	1:A:1152:HIS:ND1	2.23	0.52
1:B:563:LEU:HD11	1:B:724:GLN:O	2.09	0.52
1:B:569:LYS:HD3	1:B:569:LYS:N	2.23	0.52
1:B:640:LEU:HD13	1:B:647:ILE:HD13	1.91	0.52
1:C:569:LYS:HD3	1:C:569:LYS:N	2.23	0.52
1:C:610:ARG:NH1	1:C:610:ARG:HA	2.24	0.52
1:D:334:TYR:OH	1:D:359:GLU:O	2.28	0.52
1:D:640:LEU:HD13	1:D:647:ILE:HD13	1.91	0.52
1:D:753:THR:HA	1:D:759:ILE:HD11	1.91	0.52
1:D:1158:TYR:HA	1:D:1161:ILE:HG12	1.92	0.52
1:E:358:GLU:O	1:E:362:SER:N	2.37	0.52
1:E:610:ARG:NH1	1:E:610:ARG:HA	2.24	0.52
1:A:504:ARG:HD3	1:A:773:PRO:HG2	1.91	0.52
1:A:753:THR:HA	1:A:759:ILE:HD11	1.91	0.52
1:B:312:GLY:O	1:B:316:MET:HE3	2.10	0.52
1:B:485:GLU:OE1	1:B:522:SER:HA	2.09	0.52
1:B:713:HIS:O	1:B:717:ARG:HG3	2.09	0.52
1:B:753:THR:HA	1:B:759:ILE:HD11	1.91	0.52
1:C:334:TYR:OH	1:C:359:GLU:O	2.27	0.52
1:C:753:THR:HA	1:C:759:ILE:HD11	1.91	0.52
1:D:329:LYS:HA	1:D:330:LYS:CD	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:713:HIS:O	1:E:717:ARG:HG3	2.09	0.52
1:F:464:CYS:SG	1:F:467:LEU:HD13	2.49	0.52
1:F:470:LYS:CE	1:F:523:MET:HG3	2.39	0.52
1:F:680:LEU:HA	1:F:683:ILE:HD12	1.91	0.52
1:F:753:THR:HA	1:F:759:ILE:HD11	1.91	0.52
1:A:520:VAL:HA	1:A:523:MET:HB2	1.92	0.52
1:B:496:PRO:HD2	1:B:766:LEU:CD2	2.30	0.52
1:B:504:ARG:HD3	1:B:773:PRO:HG2	1.91	0.52
1:C:1158:TYR:HA	1:C:1161:ILE:HG12	1.92	0.52
1:A:640:LEU:HD13	1:A:647:ILE:HD13	1.91	0.52
1:B:444:ARG:NH2	1:B:472:LYS:HA	2.25	0.52
1:C:312:GLY:O	1:C:316:MET:HE3	2.09	0.52
1:C:449:GLU:HB3	1:C:453:ARG:HH22	1.73	0.52
1:D:563:LEU:HD11	1:D:724:GLN:O	2.09	0.52
1:E:312:GLY:O	1:E:316:MET:HE3	2.10	0.52
1:E:374:ASP:HB3	1:E:419:ALA:CB	2.40	0.52
1:E:399:MET:HG3	1:E:429:ARG:CG	2.35	0.52
1:E:581:PRO:HD2	1:E:582:LYS:NZ	2.23	0.52
1:F:334:TYR:OH	1:F:359:GLU:O	2.28	0.52
1:F:668:ILE:O	1:F:703:ALA:HA	2.09	0.52
1:A:399:MET:HG3	1:A:429:ARG:CG	2.36	0.52
1:A:512:ILE:O	1:A:513:LYS:HD3	2.10	0.52
1:B:606:LEU:HD13	1:B:703:ALA:HB3	1.92	0.52
1:C:659:ARG:HD2	1:D:535:ILE:HD12	1.90	0.52
1:D:520:VAL:HA	1:D:523:MET:HB2	1.92	0.52
1:D:668:ILE:O	1:D:703:ALA:HA	2.09	0.52
1:E:496:PRO:HD2	1:E:766:LEU:CD2	2.30	0.52
1:E:1158:TYR:HA	1:E:1161:ILE:HG12	1.92	0.52
1:F:312:GLY:O	1:F:316:MET:HE3	2.09	0.52
1:F:449:GLU:HB3	1:F:453:ARG:HH22	1.73	0.52
1:F:563:LEU:HD11	1:F:724:GLN:O	2.09	0.52
1:A:334:TYR:OH	1:A:359:GLU:O	2.27	0.52
1:A:497:GLN:OE1	1:A:500:ARG:NH2	2.41	0.52
1:A:679:PRO:HB2	1:A:681:THR:HG22	1.91	0.52
1:B:679:PRO:HB2	1:B:681:THR:HG22	1.91	0.52
1:C:470:LYS:CE	1:C:523:MET:HG3	2.39	0.52
1:C:520:VAL:HA	1:C:523:MET:HB2	1.92	0.52
1:D:622:ILE:CD1	1:D:702:LEU:HD11	2.40	0.52
1:E:470:LYS:CE	1:E:523:MET:HG3	2.39	0.52
1:E:520:VAL:HA	1:E:523:MET:HB2	1.92	0.52
1:F:486:ALA:N	1:F:522:SER:HB3	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:581:PRO:HD2	1:F:582:LYS:NZ	2.23	0.52
1:F:595:PHE:HA	1:F:599:ARG:HG3	1.92	0.52
1:A:492:LYS:CD	1:A:498:LEU:HD12	2.39	0.52
1:A:668:ILE:O	1:A:703:ALA:HA	2.09	0.52
1:B:449:GLU:HB3	1:B:453:ARG:HH22	1.73	0.52
1:B:520:VAL:HA	1:B:523:MET:HB2	1.92	0.52
1:C:595:PHE:HA	1:C:599:ARG:HG3	1.92	0.52
1:C:668:ILE:O	1:C:703:ALA:HA	2.09	0.52
1:C:1174:VAL:HA	1:C:1177:CYS:SG	2.50	0.52
1:D:492:LYS:CD	1:D:498:LEU:HD12	2.39	0.52
1:D:679:PRO:HB2	1:D:681:THR:HG22	1.91	0.52
1:E:492:LYS:CD	1:E:498:LEU:HD12	2.39	0.52
1:E:606:LEU:HD13	1:E:703:ALA:HB3	1.92	0.52
1:A:463:LEU:HD12	1:A:466:MET:SD	2.50	0.52
1:A:464:CYS:SG	1:A:467:LEU:HD13	2.49	0.52
1:A:486:ALA:N	1:A:522:SER:HB3	2.25	0.52
1:A:595:PHE:HA	1:A:599:ARG:HG3	1.92	0.52
1:A:1158:TYR:HA	1:A:1161:ILE:HG12	1.92	0.52
1:B:464:CYS:SG	1:B:467:LEU:HD13	2.49	0.52
1:B:470:LYS:CE	1:B:523:MET:HG3	2.39	0.52
1:B:630:HIS:HB3	1:B:664:SER:CA	2.38	0.52
1:C:325:SER:HB2	1:C:333:PHE:CZ	2.45	0.52
1:C:563:LEU:HD11	1:C:724:GLN:O	2.09	0.52
1:D:399:MET:HG3	1:D:429:ARG:CG	2.35	0.52
1:D:595:PHE:HA	1:D:599:ARG:HG3	1.92	0.52
1:E:329:LYS:HA	1:E:330:LYS:CD	2.37	0.52
1:E:504:ARG:HD3	1:E:773:PRO:HG2	1.91	0.52
1:E:679:PRO:HB2	1:E:681:THR:HG22	1.91	0.52
1:F:284:LEU:CD1	1:F:287:LEU:HD23	2.40	0.52
1:A:312:GLY:O	1:A:316:MET:HE3	2.09	0.51
1:A:329:LYS:HG2	1:A:330:LYS:CE	2.39	0.51
1:A:622:ILE:CD1	1:A:702:LEU:HD11	2.40	0.51
1:B:622:ILE:CD1	1:B:702:LEU:HD11	2.40	0.51
1:B:680:LEU:HA	1:B:683:ILE:HD12	1.91	0.51
1:C:680:LEU:HA	1:C:683:ILE:HD12	1.91	0.51
1:D:380:ARG:CZ	1:D:389:ALA:HB2	2.41	0.51
1:D:444:ARG:NH2	1:D:472:LYS:HA	2.25	0.51
1:D:486:ALA:N	1:D:522:SER:HB3	2.25	0.51
1:F:374:ASP:HB3	1:F:419:ALA:CB	2.39	0.51
1:F:529:SER:HA	1:F:532:ARG:CZ	2.40	0.51
1:F:1174:VAL:HA	1:F:1177:CYS:SG	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:325:SER:HB2	1:B:333:PHE:CZ	2.45	0.51
1:C:380:ARG:CZ	1:C:389:ALA:HB2	2.41	0.51
1:E:279:LYS:HE2	1:F:499:TYR:HA	1.92	0.51
1:F:380:ARG:CZ	1:F:389:ALA:HB2	2.41	0.51
1:F:679:PRO:HB2	1:F:681:THR:HG22	1.91	0.51
1:A:524:LYS:HB2	1:A:525:ARG:NH1	2.26	0.51
1:A:563:LEU:HD11	1:A:724:GLN:O	2.09	0.51
1:A:578:TYR:HD1	1:B:763:ARG:HD2	1.73	0.51
1:B:463:LEU:HD12	1:B:466:MET:SD	2.50	0.51
1:B:486:ALA:N	1:B:522:SER:HB3	2.25	0.51
1:B:595:PHE:HA	1:B:599:ARG:HG3	1.92	0.51
1:B:601:TYR:CD1	1:C:1151:LEU:HB2	2.45	0.51
1:B:601:TYR:HE1	1:C:1151:LEU:HD12	1.74	0.51
1:B:1158:TYR:HA	1:B:1161:ILE:HG12	1.92	0.51
1:B:1174:VAL:HA	1:B:1177:CYS:SG	2.50	0.51
1:C:486:ALA:HB2	1:C:522:SER:OG	2.09	0.51
1:C:679:PRO:HB2	1:C:681:THR:HG22	1.91	0.51
1:D:427:PRO:HA	1:D:431:ASP:HA	1.91	0.51
1:E:529:SER:HA	1:E:532:ARG:CZ	2.40	0.51
1:E:595:PHE:HA	1:E:599:ARG:HG3	1.92	0.51
1:E:607:ILE:HB	1:E:704:LEU:HA	1.93	0.51
1:E:622:ILE:CD1	1:E:702:LEU:HD11	2.40	0.51
1:E:680:LEU:HA	1:E:683:ILE:HD12	1.91	0.51
1:F:427:PRO:HA	1:F:431:ASP:HA	1.91	0.51
1:F:444:ARG:NH2	1:F:472:LYS:HA	2.25	0.51
1:F:463:LEU:HD12	1:F:466:MET:SD	2.50	0.51
1:F:504:ARG:HD3	1:F:773:PRO:HG2	1.91	0.51
1:F:512:ILE:O	1:F:513:LYS:HD3	2.10	0.51
1:A:607:ILE:HB	1:A:704:LEU:HA	1.93	0.51
1:B:757:GLY:HA3	1:B:1165:LYS:HG2	1.92	0.51
1:C:284:LEU:CD1	1:C:287:LEU:HD23	2.41	0.51
1:C:358:GLU:O	1:C:362:SER:N	2.37	0.51
1:C:492:LYS:CD	1:C:498:LEU:HD12	2.39	0.51
1:D:524:LYS:HB2	1:D:525:ARG:NH1	2.26	0.51
1:D:606:LEU:HD13	1:D:703:ALA:HB3	1.92	0.51
1:E:524:LYS:HB2	1:E:525:ARG:NH1	2.26	0.51
1:E:1174:VAL:HA	1:E:1177:CYS:SG	2.50	0.51
1:F:492:LYS:CD	1:F:498:LEU:HD12	2.39	0.51
1:F:622:ILE:CD1	1:F:702:LEU:HD11	2.40	0.51
1:A:486:ALA:HA	1:A:489:ASN:HD22	1.76	0.51
1:A:529:SER:HA	1:A:532:ARG:CZ	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:606:LEU:HD13	1:A:703:ALA:HB3	1.92	0.51
1:B:329:LYS:HA	1:B:330:LYS:CD	2.37	0.51
1:B:334:TYR:OH	1:B:359:GLU:O	2.27	0.51
1:B:610:ARG:NH1	1:B:610:ARG:HA	2.24	0.51
1:C:444:ARG:NH2	1:C:472:LYS:HA	2.25	0.51
1:C:485:GLU:HB3	1:C:522:SER:CB	2.41	0.51
1:C:512:ILE:O	1:C:513:LYS:HD3	2.10	0.51
1:D:310:GLY:O	1:D:475:GLY:HA3	2.11	0.51
1:D:512:ILE:O	1:D:513:LYS:HD3	2.10	0.51
1:D:1174:VAL:HA	1:D:1177:CYS:SG	2.50	0.51
1:E:427:PRO:HA	1:E:431:ASP:HA	1.91	0.51
1:F:290:GLU:O	1:F:294:ARG:HG3	2.11	0.51
1:F:486:ALA:HA	1:F:489:ASN:HD22	1.76	0.51
1:F:506:GLN:N	1:F:506:GLN:OE1	2.42	0.51
1:A:329:LYS:HA	1:A:330:LYS:CD	2.37	0.51
1:A:589:GLN:OE1	1:B:517:LYS:HG3	2.11	0.51
1:A:757:GLY:HA3	1:A:1165:LYS:HG2	1.92	0.51
1:B:279:LYS:HE2	1:C:499:TYR:HA	1.93	0.51
1:B:763:ARG:NH1	1:B:764:ARG:O	2.44	0.51
1:C:290:GLU:O	1:C:294:ARG:HG3	2.11	0.51
1:C:310:GLY:O	1:C:475:GLY:HA3	2.11	0.51
1:C:350:GLU:OE1	1:C:350:GLU:HA	2.11	0.51
1:C:486:ALA:N	1:C:522:SER:HB3	2.25	0.51
1:C:622:ILE:CD1	1:C:702:LEU:HD11	2.40	0.51
1:D:763:ARG:NH1	1:D:764:ARG:O	2.44	0.51
1:E:463:LEU:HD12	1:E:466:MET:SD	2.50	0.51
1:A:380:ARG:CZ	1:A:389:ALA:HB2	2.41	0.51
1:A:763:ARG:NH1	1:A:764:ARG:O	2.44	0.51
1:A:1132:THR:HA	1:A:1135:LYS:CG	2.41	0.51
1:B:427:PRO:HA	1:B:431:ASP:HA	1.91	0.51
1:C:374:ASP:HB3	1:C:419:ALA:CB	2.40	0.51
1:C:630:HIS:HB3	1:C:664:SER:CA	2.38	0.51
1:C:763:ARG:NH1	1:C:764:ARG:O	2.44	0.51
1:C:1132:THR:HA	1:C:1135:LYS:CG	2.41	0.51
1:D:284:LEU:CD1	1:D:287:LEU:HD23	2.41	0.51
1:D:312:GLY:O	1:D:316:MET:HE3	2.09	0.51
1:D:504:ARG:HD3	1:D:773:PRO:HG2	1.91	0.51
1:D:610:ARG:HB2	1:D:613:LEU:HD22	1.93	0.51
1:D:757:GLY:HA3	1:D:1165:LYS:HG2	1.92	0.51
1:E:334:TYR:OH	1:E:359:GLU:O	2.27	0.51
1:E:486:ALA:HB2	1:E:522:SER:OG	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1132:THR:HA	1:E:1135:LYS:CG	2.41	0.51
1:F:1158:TYR:HA	1:F:1161:ILE:HG12	1.92	0.51
1:A:325:SER:HB2	1:A:333:PHE:CZ	2.45	0.51
1:A:339:ALA:HA	1:A:376:LEU:CD2	2.41	0.51
1:A:610:ARG:HB2	1:A:613:LEU:HD22	1.93	0.51
1:B:486:ALA:HA	1:B:489:ASN:HD22	1.76	0.51
1:B:486:ALA:HB2	1:B:522:SER:OG	2.09	0.51
1:B:524:LYS:HB2	1:B:525:ARG:NH1	2.26	0.51
1:B:529:SER:HA	1:B:532:ARG:CZ	2.40	0.51
1:B:610:ARG:HB2	1:B:613:LEU:HD22	1.93	0.51
1:C:723:LYS:NZ	1:D:1186:ILE:HD11	2.26	0.51
1:D:485:GLU:HB3	1:D:522:SER:CB	2.41	0.51
1:D:486:ALA:HA	1:D:489:ASN:HD22	1.76	0.51
1:D:1132:THR:HA	1:D:1135:LYS:CG	2.41	0.51
1:E:350:GLU:OE1	1:E:350:GLU:HA	2.11	0.51
1:E:444:ARG:NH2	1:E:472:LYS:HA	2.25	0.51
1:F:325:SER:HB2	1:F:333:PHE:CZ	2.45	0.51
1:F:485:GLU:HB3	1:F:522:SER:CB	2.41	0.51
1:A:680:LEU:HA	1:A:683:ILE:HD12	1.91	0.51
1:A:1174:VAL:HA	1:A:1177:CYS:SG	2.50	0.51
1:C:486:ALA:HA	1:C:489:ASN:HD22	1.76	0.51
1:C:504:ARG:HD3	1:C:773:PRO:HG2	1.91	0.51
1:C:524:LYS:HB2	1:C:525:ARG:NH1	2.26	0.51
1:C:529:SER:HA	1:C:532:ARG:CZ	2.40	0.51
1:C:757:GLY:HA3	1:C:1165:LYS:HG2	1.92	0.51
1:D:290:GLU:O	1:D:294:ARG:HG3	2.11	0.51
1:D:529:SER:HA	1:D:532:ARG:CZ	2.40	0.51
1:E:441:ARG:O	1:E:444:ARG:HB3	2.11	0.51
1:E:512:ILE:O	1:E:513:LYS:HD3	2.10	0.51
1:E:757:GLY:HA3	1:E:1165:LYS:HG2	1.92	0.51
1:F:310:GLY:O	1:F:475:GLY:HA3	2.11	0.51
1:F:353:LEU:HD21	1:F:394:THR:HG21	1.93	0.51
1:F:606:LEU:HD13	1:F:703:ALA:HB3	1.92	0.51
1:F:607:ILE:HB	1:F:704:LEU:HA	1.93	0.51
1:F:656:LEU:O	1:F:659:ARG:HB2	2.11	0.51
1:B:485:GLU:HB3	1:B:522:SER:CB	2.41	0.51
1:B:607:ILE:HB	1:B:704:LEU:HA	1.93	0.51
1:C:280:GLU:OE1	1:D:492:LYS:HD3	2.11	0.51
1:C:329:LYS:HG2	1:C:330:LYS:CE	2.39	0.51
1:C:353:LEU:HD21	1:C:394:THR:HG21	1.93	0.51
1:C:606:LEU:HD13	1:C:703:ALA:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:264:SER:N	1:D:322:ALA:HB3	2.26	0.51
1:D:441:ARG:O	1:D:444:ARG:HB3	2.11	0.51
1:D:680:LEU:HA	1:D:683:ILE:HD12	1.91	0.51
1:E:353:LEU:HD21	1:E:394:THR:HG21	1.93	0.51
1:E:485:GLU:HB3	1:E:522:SER:CB	2.41	0.51
1:E:763:ARG:NH1	1:E:764:ARG:O	2.44	0.51
1:F:637:SER:O	1:F:641:GLN:HB2	2.11	0.51
1:F:757:GLY:HA3	1:F:1165:LYS:HG2	1.92	0.51
1:F:1132:THR:HA	1:F:1135:LYS:CG	2.41	0.51
1:A:275:ILE:O	1:A:278:LEU:HG	2.11	0.50
1:A:284:LEU:CD1	1:A:287:LEU:HD23	2.41	0.50
1:A:441:ARG:O	1:A:444:ARG:HB3	2.11	0.50
1:A:444:ARG:NH2	1:A:472:LYS:HA	2.25	0.50
1:B:290:GLU:O	1:B:294:ARG:HG3	2.11	0.50
1:B:291:ILE:HB	1:B:295:PHE:HD1	1.77	0.50
1:B:656:LEU:O	1:B:659:ARG:HB2	2.11	0.50
1:C:463:LEU:HD12	1:C:466:MET:SD	2.50	0.50
1:C:610:ARG:HB2	1:C:613:LEU:HD22	1.93	0.50
1:D:275:ILE:O	1:D:278:LEU:HG	2.11	0.50
1:D:325:SER:HB2	1:D:333:PHE:CZ	2.45	0.50
1:D:350:GLU:OE1	1:D:350:GLU:HA	2.11	0.50
1:D:656:LEU:O	1:D:659:ARG:HB2	2.11	0.50
1:E:275:ILE:O	1:E:278:LEU:HG	2.11	0.50
1:F:339:ALA:HA	1:F:376:LEU:CD2	2.41	0.50
1:F:520:VAL:HA	1:F:523:MET:HB2	1.92	0.50
1:F:610:ARG:HB2	1:F:613:LEU:HD22	1.93	0.50
1:F:763:ARG:NH1	1:F:764:ARG:O	2.44	0.50
1:A:310:GLY:O	1:A:475:GLY:HA3	2.11	0.50
1:A:350:GLU:OE1	1:A:350:GLU:HA	2.11	0.50
1:A:528:PRO:HG2	1:A:531:GLU:OE1	2.11	0.50
1:A:656:LEU:O	1:A:659:ARG:HB2	2.11	0.50
1:B:295:PHE:CE2	1:C:457:PRO:HD2	2.46	0.50
1:B:310:GLY:O	1:B:475:GLY:HA3	2.11	0.50
1:B:441:ARG:O	1:B:444:ARG:HB3	2.11	0.50
1:B:512:ILE:O	1:B:513:LYS:HD3	2.10	0.50
1:D:496:PRO:HB2	1:D:500:ARG:HH11	1.77	0.50
1:D:528:PRO:HG2	1:D:531:GLU:OE1	2.11	0.50
1:D:589:GLN:HG3	1:E:520:VAL:HG21	1.94	0.50
1:E:486:ALA:N	1:E:522:SER:HB3	2.25	0.50
1:E:610:ARG:HB2	1:E:613:LEU:HD22	1.93	0.50
1:F:441:ARG:O	1:F:444:ARG:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:671:ILE:HG13	1:F:674:TRP:HB3	1.92	0.50
1:A:441:ARG:NH2	1:A:471:SER:O	2.45	0.50
1:A:533:SER:O	1:F:659:ARG:HG3	2.12	0.50
1:B:497:GLN:HG2	1:B:766:LEU:CD2	2.40	0.50
1:B:578:TYR:HB3	1:C:761:ARG:HB3	1.92	0.50
1:C:496:PRO:HB2	1:C:500:ARG:HH11	1.76	0.50
1:E:310:GLY:O	1:E:475:GLY:HA3	2.11	0.50
1:E:325:SER:HB2	1:E:333:PHE:CZ	2.45	0.50
1:E:449:GLU:HB3	1:E:453:ARG:HH22	1.73	0.50
1:E:486:ALA:HA	1:E:489:ASN:HD22	1.76	0.50
1:E:497:GLN:HG2	1:E:766:LEU:CD2	2.40	0.50
1:F:350:GLU:OE1	1:F:350:GLU:HA	2.11	0.50
1:A:264:SER:N	1:A:322:ALA:HB3	2.27	0.50
1:A:287:LEU:O	1:B:504:ARG:NH2	2.44	0.50
1:A:290:GLU:O	1:A:294:ARG:HG3	2.10	0.50
1:B:284:LEU:CD1	1:B:287:LEU:HD23	2.40	0.50
1:B:353:LEU:HD21	1:B:394:THR:HG21	1.93	0.50
1:C:637:SER:O	1:C:641:GLN:HB2	2.11	0.50
1:E:264:SER:N	1:E:322:ALA:HB3	2.26	0.50
1:E:370:PHE:O	1:E:413:ALA:N	2.40	0.50
1:F:275:ILE:O	1:F:278:LEU:HG	2.11	0.50
1:F:496:PRO:HB2	1:F:500:ARG:HH11	1.76	0.50
1:A:496:PRO:HB2	1:A:500:ARG:HH11	1.76	0.50
1:B:637:SER:O	1:B:641:GLN:HB2	2.11	0.50
1:B:1132:THR:HA	1:B:1135:LYS:CG	2.41	0.50
1:D:463:LEU:HD12	1:D:466:MET:SD	2.50	0.50
1:D:607:ILE:HB	1:D:704:LEU:HA	1.93	0.50
1:E:467:LEU:HA	1:E:470:LYS:HZ1	1.75	0.50
1:E:496:PRO:HB2	1:E:500:ARG:HH11	1.77	0.50
1:F:441:ARG:NH2	1:F:471:SER:O	2.45	0.50
1:A:287:LEU:CD1	1:B:505:LEU:H	2.25	0.50
1:B:339:ALA:HA	1:B:376:LEU:CD2	2.41	0.50
1:C:339:ALA:HA	1:C:376:LEU:CD2	2.41	0.50
1:C:441:ARG:NH2	1:C:471:SER:O	2.45	0.50
1:C:441:ARG:O	1:C:444:ARG:HB3	2.11	0.50
1:C:671:ILE:HG13	1:C:674:TRP:HB3	1.92	0.50
1:E:339:ALA:HA	1:E:376:LEU:CD2	2.41	0.50
1:A:485:GLU:HB3	1:A:522:SER:CB	2.41	0.50
1:A:505:LEU:HD22	1:A:771:LEU:HD22	1.94	0.50
1:B:345:TRP:CH2	1:C:343:SER:HB2	2.47	0.50
1:B:350:GLU:OE1	1:B:350:GLU:HA	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:496:PRO:HB2	1:B:500:ARG:HH11	1.76	0.50
1:C:301:ARG:HD2	1:C:409:ILE:HG13	1.93	0.50
1:C:496:PRO:HD2	1:C:766:LEU:CD2	2.30	0.50
1:C:656:LEU:O	1:C:659:ARG:HB2	2.11	0.50
1:D:583:GLU:HG2	1:E:517:LYS:CD	2.41	0.50
1:E:290:GLU:O	1:E:294:ARG:HG3	2.11	0.50
1:E:350:GLU:O	1:E:353:LEU:HG	2.12	0.50
1:E:441:ARG:NH2	1:E:471:SER:O	2.45	0.50
1:E:637:SER:O	1:E:641:GLN:HB2	2.12	0.50
1:F:291:ILE:HB	1:F:295:PHE:HD1	1.77	0.50
1:F:524:LYS:HB2	1:F:525:ARG:NH1	2.26	0.50
1:A:315:LEU:HD12	1:A:316:MET:N	2.27	0.50
1:A:358:GLU:O	1:A:362:SER:N	2.37	0.50
1:A:578:TYR:HB3	1:B:762:LYS:O	2.12	0.50
1:A:689:MET:SD	1:A:692:ARG:HG3	2.52	0.50
1:C:607:ILE:HB	1:C:704:LEU:HA	1.93	0.50
1:D:339:ALA:HA	1:D:376:LEU:CD2	2.41	0.50
1:D:671:ILE:HG13	1:D:674:TRP:HB3	1.92	0.50
1:E:380:ARG:CZ	1:E:389:ALA:HB2	2.41	0.50
1:E:537:PRO:O	1:E:620:PRO:HA	2.12	0.50
1:E:671:ILE:HG13	1:E:674:TRP:HB3	1.92	0.50
1:F:505:LEU:HD22	1:F:771:LEU:HD22	1.94	0.50
1:A:466:MET:HE1	1:F:586:PHE:CD1	2.46	0.50
1:A:637:SER:O	1:A:641:GLN:HB2	2.12	0.50
1:B:380:ARG:CZ	1:B:389:ALA:HB2	2.41	0.50
1:B:537:PRO:O	1:B:620:PRO:HA	2.12	0.50
1:D:315:LEU:HD12	1:D:316:MET:N	2.27	0.50
1:D:505:LEU:HD22	1:D:771:LEU:HD22	1.94	0.50
1:D:637:SER:O	1:D:641:GLN:HB2	2.12	0.50
1:E:315:LEU:HD12	1:E:316:MET:N	2.27	0.50
1:E:334:TYR:HH	1:E:363:THR:HG1	1.59	0.50
1:E:528:PRO:HG2	1:E:531:GLU:OE1	2.11	0.50
1:E:656:LEU:O	1:E:659:ARG:HB2	2.11	0.50
1:F:264:SER:N	1:F:322:ALA:HB3	2.26	0.50
1:C:537:PRO:O	1:C:620:PRO:HA	2.12	0.49
1:D:497:GLN:HG2	1:D:766:LEU:CD2	2.40	0.49
1:D:689:MET:SD	1:D:692:ARG:HG3	2.52	0.49
1:E:506:GLN:OE1	1:E:771:LEU:HA	2.12	0.49
1:F:301:ARG:HD2	1:F:409:ILE:HG13	1.93	0.49
1:A:537:PRO:O	1:A:620:PRO:HA	2.12	0.49
1:B:264:SER:N	1:B:322:ALA:HB3	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:652:ILE:HD11	1:C:641:GLN:HA	1.93	0.49
1:B:671:ILE:HG13	1:B:674:TRP:HB3	1.93	0.49
1:D:291:ILE:HB	1:D:295:PHE:HD1	1.77	0.49
1:D:301:ARG:HD2	1:D:409:ILE:HG13	1.93	0.49
1:D:331:VAL:HA	1:D:364:GLN:HE22	1.77	0.49
1:D:441:ARG:NH2	1:D:471:SER:O	2.45	0.49
1:D:496:PRO:HD2	1:D:766:LEU:CD2	2.30	0.49
1:D:506:GLN:OE1	1:D:771:LEU:HA	2.12	0.49
1:D:537:PRO:O	1:D:620:PRO:HA	2.12	0.49
1:E:284:LEU:CD1	1:E:287:LEU:HD23	2.40	0.49
1:F:496:PRO:HD2	1:F:766:LEU:CD2	2.30	0.49
1:F:528:PRO:HG2	1:F:531:GLU:OE1	2.11	0.49
1:F:538:SER:OG	1:F:623:LEU:HB2	2.13	0.49
1:A:301:ARG:HD2	1:A:409:ILE:HG13	1.93	0.49
1:A:463:LEU:C	1:A:466:MET:HG2	2.38	0.49
1:B:371:ASP:HA	1:B:413:ALA:CB	2.37	0.49
1:B:441:ARG:NH2	1:B:471:SER:O	2.45	0.49
1:B:528:PRO:HG2	1:B:531:GLU:OE1	2.11	0.49
1:C:335:MET:HG3	1:C:369:PHE:CD2	2.47	0.49
1:C:506:GLN:OE1	1:C:771:LEU:HA	2.12	0.49
1:C:564:MET:HE2	1:C:564:MET:HA	1.95	0.49
1:D:335:MET:HG3	1:D:369:PHE:CD2	2.47	0.49
1:F:392:VAL:O	1:F:395:LEU:HG	2.12	0.49
1:A:335:MET:HG3	1:A:369:PHE:CD2	2.47	0.49
1:A:564:MET:HA	1:A:564:MET:HE2	1.95	0.49
1:A:671:ILE:HG13	1:A:674:TRP:HB3	1.92	0.49
1:A:764:ARG:CG	1:F:579:ASP:H	2.23	0.49
1:B:275:ILE:O	1:B:278:LEU:HG	2.11	0.49
1:B:301:ARG:HD2	1:B:409:ILE:HG13	1.93	0.49
1:B:329:LYS:HG2	1:B:330:LYS:CE	2.39	0.49
1:B:505:LEU:HD22	1:B:771:LEU:HD22	1.94	0.49
1:C:275:ILE:O	1:C:278:LEU:HG	2.11	0.49
1:C:291:ILE:HB	1:C:295:PHE:HD1	1.77	0.49
1:C:528:PRO:HG2	1:C:531:GLU:OE1	2.11	0.49
1:C:538:SER:OG	1:C:623:LEU:HB2	2.13	0.49
1:D:353:LEU:HD21	1:D:394:THR:HG21	1.93	0.49
1:D:709:LEU:HA	1:D:712:LEU:CD1	2.43	0.49
1:E:291:ILE:HB	1:E:295:PHE:HD1	1.77	0.49
1:E:505:LEU:HD22	1:E:771:LEU:HD22	1.94	0.49
1:F:329:LYS:HG2	1:F:330:LYS:CE	2.39	0.49
1:F:444:ARG:CZ	1:F:472:LYS:HA	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:353:LEU:HD21	1:A:394:THR:HG21	1.93	0.49
1:A:444:ARG:CZ	1:A:472:LYS:HA	2.43	0.49
1:A:474:TYR:HB2	1:A:479:LEU:CD2	2.43	0.49
1:B:297:MET:HE1	1:C:455:TRP:CD2	2.47	0.49
1:B:444:ARG:CZ	1:B:472:LYS:HA	2.43	0.49
1:B:506:GLN:OE1	1:B:771:LEU:HA	2.12	0.49
1:C:463:LEU:C	1:C:466:MET:HG2	2.38	0.49
1:C:689:MET:SD	1:C:692:ARG:HG3	2.52	0.49
1:F:264:SER:HA	1:F:319:ALA:O	2.13	0.49
1:F:315:LEU:HD12	1:F:316:MET:N	2.27	0.49
1:F:505:LEU:HB3	1:F:771:LEU:HD13	1.95	0.49
1:F:506:GLN:OE1	1:F:771:LEU:HA	2.12	0.49
1:A:291:ILE:HB	1:A:295:PHE:HD1	1.77	0.49
1:A:709:LEU:HA	1:A:712:LEU:CD1	2.43	0.49
1:B:709:LEU:HA	1:B:712:LEU:CD1	2.43	0.49
1:C:264:SER:N	1:C:322:ALA:HB3	2.27	0.49
1:C:505:LEU:HD22	1:C:771:LEU:HD22	1.94	0.49
1:C:709:LEU:HA	1:C:712:LEU:CD1	2.43	0.49
1:D:264:SER:HA	1:D:319:ALA:O	2.13	0.49
1:D:329:LYS:HG2	1:D:330:LYS:CE	2.39	0.49
1:D:444:ARG:CZ	1:D:472:LYS:HA	2.43	0.49
1:E:264:SER:HA	1:E:319:ALA:O	2.13	0.49
1:E:392:VAL:O	1:E:395:LEU:HG	2.12	0.49
1:E:709:LEU:HA	1:E:712:LEU:CD1	2.43	0.49
1:F:350:GLU:O	1:F:353:LEU:HG	2.12	0.49
1:F:537:PRO:O	1:F:620:PRO:HA	2.12	0.49
1:F:564:MET:HA	1:F:564:MET:HE2	1.94	0.49
1:F:689:MET:SD	1:F:692:ARG:HG3	2.52	0.49
1:B:315:LEU:HD12	1:B:316:MET:N	2.27	0.49
1:B:350:GLU:O	1:B:353:LEU:HG	2.12	0.49
1:B:474:TYR:O	1:B:478:ASP:HB2	2.13	0.49
1:B:564:MET:HE2	1:B:564:MET:HA	1.95	0.49
1:B:689:MET:SD	1:B:692:ARG:HG3	2.52	0.49
1:C:315:LEU:HD12	1:C:316:MET:N	2.27	0.49
1:C:444:ARG:CZ	1:C:472:LYS:HA	2.43	0.49
1:C:731:TYR:HE1	1:C:1146:THR:HA	1.77	0.49
1:D:505:LEU:HB3	1:D:771:LEU:HD13	1.95	0.49
1:D:564:MET:HE2	1:D:564:MET:HA	1.95	0.49
1:E:329:LYS:HG2	1:E:330:LYS:CE	2.39	0.49
1:A:264:SER:HA	1:A:319:ALA:O	2.13	0.49
1:A:505:LEU:HB3	1:A:771:LEU:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:506:GLN:OE1	1:A:771:LEU:HA	2.12	0.49
1:C:329:LYS:HA	1:C:330:LYS:CD	2.37	0.49
1:C:474:TYR:O	1:C:478:ASP:HB2	2.13	0.49
1:C:505:LEU:HB3	1:C:771:LEU:HD13	1.95	0.49
1:D:350:GLU:O	1:D:353:LEU:HG	2.12	0.49
1:E:474:TYR:HB2	1:E:479:LEU:CD2	2.43	0.49
1:E:538:SER:OG	1:E:623:LEU:HB2	2.13	0.49
1:F:602:LYS:CG	1:F:695:PHE:HA	2.42	0.49
1:F:648:GLU:OE1	1:F:682:ALA:HA	2.13	0.49
1:A:331:VAL:HA	1:A:364:GLN:HE22	1.77	0.49
1:A:392:VAL:O	1:A:395:LEU:HG	2.12	0.49
1:A:474:TYR:O	1:A:478:ASP:HB2	2.13	0.49
1:A:731:TYR:HE1	1:A:1146:THR:HA	1.77	0.49
1:B:308:PRO:HD3	1:B:435:TYR:HE1	1.78	0.49
1:B:731:TYR:HE1	1:B:1146:THR:HA	1.77	0.49
1:D:276:ASN:O	1:D:279:LYS:HG2	2.13	0.49
1:D:474:TYR:HB2	1:D:479:LEU:CD2	2.43	0.49
1:D:538:SER:OG	1:D:623:LEU:HB2	2.13	0.49
1:D:731:TYR:HE1	1:D:1146:THR:HA	1.77	0.49
1:E:301:ARG:HD2	1:E:409:ILE:HG13	1.93	0.49
1:E:505:LEU:HB3	1:E:771:LEU:HD13	1.95	0.49
1:E:564:MET:HE2	1:E:564:MET:HA	1.94	0.49
1:E:689:MET:SD	1:E:692:ARG:HG3	2.52	0.49
1:F:474:TYR:HB2	1:F:479:LEU:CD2	2.43	0.49
1:F:474:TYR:O	1:F:478:ASP:HB2	2.13	0.49
1:A:276:ASN:O	1:A:279:LYS:HG2	2.13	0.49
1:A:276:ASN:O	1:A:280:GLU:HG3	2.13	0.49
1:B:276:ASN:O	1:B:280:GLU:HG3	2.13	0.49
1:B:297:MET:HE1	1:C:455:TRP:CH2	2.48	0.49
1:B:331:VAL:HA	1:B:364:GLN:HE22	1.77	0.49
1:B:392:VAL:O	1:B:395:LEU:HG	2.12	0.49
1:C:392:VAL:O	1:C:395:LEU:HG	2.12	0.49
1:D:444:ARG:HA	1:D:447:ILE:HG22	1.95	0.49
1:E:444:ARG:CZ	1:E:472:LYS:HA	2.43	0.49
1:F:329:LYS:HA	1:F:330:LYS:CD	2.37	0.49
1:F:709:LEU:HA	1:F:712:LEU:CD1	2.43	0.49
1:A:265:PHE:H	1:A:319:ALA:CA	2.26	0.48
1:A:350:GLU:O	1:A:353:LEU:HG	2.12	0.48
1:A:648:GLU:OE1	1:A:682:ALA:HA	2.13	0.48
1:B:335:MET:HG3	1:B:369:PHE:CD2	2.47	0.48
1:B:505:LEU:HB3	1:B:771:LEU:HD13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:318:ARG:NH1	1:C:337:LYS:HE2	2.28	0.48
1:C:350:GLU:O	1:C:353:LEU:HG	2.12	0.48
1:D:265:PHE:H	1:D:319:ALA:CA	2.26	0.48
1:D:308:PRO:HD3	1:D:435:TYR:HE1	1.78	0.48
1:D:497:GLN:NE2	1:D:500:ARG:HH12	2.11	0.48
1:E:374:ASP:HB3	1:E:419:ALA:HB1	1.95	0.48
1:E:754:GLU:O	1:E:755:LEU:HD23	2.13	0.48
1:F:610:ARG:CZ	1:F:611:LYS:H	2.27	0.48
1:A:374:ASP:HB3	1:A:419:ALA:HB1	1.95	0.48
1:A:539:LYS:CA	1:A:624:GLN:HE21	2.26	0.48
1:B:280:GLU:OE1	1:C:492:LYS:HD3	2.13	0.48
1:B:521:MET:O	1:B:525:ARG:HG2	2.14	0.48
1:B:605:PHE:CZ	1:B:727:TYR:HB2	2.46	0.48
1:B:754:GLU:O	1:B:755:LEU:HD23	2.13	0.48
1:C:264:SER:HA	1:C:319:ALA:O	2.13	0.48
1:C:276:ASN:O	1:C:279:LYS:HG2	2.13	0.48
1:C:308:PRO:HD3	1:C:435:TYR:HE1	1.78	0.48
1:C:663:PRO:CG	1:C:698:GLN:HE21	2.25	0.48
1:C:759:ILE:HB	1:C:761:ARG:NH2	2.27	0.48
1:D:392:VAL:O	1:D:395:LEU:HG	2.12	0.48
1:D:648:GLU:OE1	1:D:682:ALA:HA	2.13	0.48
1:E:276:ASN:O	1:E:279:LYS:HG2	2.13	0.48
1:E:335:MET:HG3	1:E:369:PHE:CD2	2.47	0.48
1:E:648:GLU:OE1	1:E:682:ALA:HA	2.13	0.48
1:E:652:ILE:HD11	1:F:641:GLN:HA	1.92	0.48
1:F:308:PRO:HD3	1:F:435:TYR:HE1	1.78	0.48
1:F:663:PRO:HA	1:F:698:GLN:O	2.13	0.48
1:A:444:ARG:HA	1:A:447:ILE:HG22	1.95	0.48
1:A:538:SER:OG	1:A:623:LEU:HB2	2.13	0.48
1:B:444:ARG:HA	1:B:447:ILE:HG22	1.95	0.48
1:B:538:SER:OG	1:B:623:LEU:HB2	2.13	0.48
1:B:648:GLU:OE1	1:B:682:ALA:HA	2.13	0.48
1:C:551:GLU:OE1	1:C:551:GLU:N	2.35	0.48
1:D:754:GLU:O	1:D:755:LEU:HD23	2.13	0.48
1:E:308:PRO:HD3	1:E:435:TYR:HE1	1.78	0.48
1:F:276:ASN:O	1:F:279:LYS:HG2	2.13	0.48
1:F:521:MET:O	1:F:525:ARG:HG2	2.13	0.48
1:F:539:LYS:CA	1:F:624:GLN:HE21	2.26	0.48
1:F:731:TYR:HE1	1:F:1146:THR:HA	1.77	0.48
1:A:308:PRO:HD3	1:A:435:TYR:HE1	1.78	0.48
1:A:576:VAL:HG21	1:B:492:LYS:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:265:PHE:H	1:B:319:ALA:CA	2.26	0.48
1:B:474:TYR:HB2	1:B:479:LEU:CD2	2.43	0.48
1:B:505:LEU:HD22	1:B:771:LEU:CD2	2.44	0.48
1:C:334:TYR:HB2	1:C:368:ILE:HG12	1.96	0.48
1:C:663:PRO:HA	1:C:698:GLN:O	2.13	0.48
1:D:463:LEU:C	1:D:466:MET:HG2	2.38	0.48
1:E:276:ASN:O	1:E:280:GLU:HG3	2.13	0.48
1:E:318:ARG:NH1	1:E:337:LYS:HE2	2.28	0.48
1:E:444:ARG:HA	1:E:447:ILE:HG22	1.95	0.48
1:E:497:GLN:NE2	1:E:500:ARG:HH12	2.11	0.48
1:E:1176:GLU:HA	1:E:1179:ARG:CG	2.44	0.48
1:F:335:MET:HG3	1:F:369:PHE:CD2	2.47	0.48
1:F:497:GLN:CG	1:F:766:LEU:HD23	2.41	0.48
1:A:371:ASP:HA	1:A:413:ALA:CB	2.37	0.48
1:A:709:LEU:O	1:A:710:SER:OG	2.26	0.48
1:A:759:ILE:HB	1:A:761:ARG:NH2	2.27	0.48
1:B:374:ASP:HB3	1:B:419:ALA:HB1	1.95	0.48
1:B:463:LEU:C	1:B:466:MET:HG2	2.38	0.48
1:B:539:LYS:CA	1:B:624:GLN:HE21	2.26	0.48
1:B:1176:GLU:HA	1:B:1179:ARG:CG	2.44	0.48
1:C:604:ARG:CB	1:C:701:PHE:HB3	2.44	0.48
1:C:754:GLU:O	1:C:755:LEU:HD23	2.13	0.48
1:D:539:LYS:CA	1:D:624:GLN:HE21	2.26	0.48
1:D:759:ILE:HB	1:D:761:ARG:NH2	2.27	0.48
1:E:463:LEU:C	1:E:466:MET:HG2	2.38	0.48
1:E:474:TYR:O	1:E:478:ASP:HB2	2.13	0.48
1:E:539:LYS:CA	1:E:624:GLN:HE21	2.26	0.48
1:E:557:GLU:HA	1:E:560:LEU:HD21	1.95	0.48
1:E:663:PRO:HA	1:E:698:GLN:O	2.13	0.48
1:A:318:ARG:NH1	1:A:337:LYS:HE2	2.28	0.48
1:A:663:PRO:HA	1:A:698:GLN:O	2.13	0.48
1:A:754:GLU:O	1:A:755:LEU:HD23	2.13	0.48
1:B:334:TYR:HB2	1:B:368:ILE:HG12	1.96	0.48
1:B:1134:LEU:CD1	1:B:1178:GLU:HB3	2.43	0.48
1:C:474:TYR:HB2	1:C:479:LEU:CD2	2.43	0.48
1:C:497:GLN:NE2	1:C:500:ARG:HH12	2.11	0.48
1:C:521:MET:O	1:C:525:ARG:HG2	2.13	0.48
1:D:276:ASN:O	1:D:280:GLU:HG3	2.13	0.48
1:D:318:ARG:NH1	1:D:337:LYS:HE2	2.28	0.48
1:E:331:VAL:HA	1:E:364:GLN:HE22	1.77	0.48
1:E:334:TYR:HB2	1:E:368:ILE:HG12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:276:ASN:O	1:F:280:GLU:HG3	2.13	0.48
1:F:334:TYR:HB2	1:F:368:ILE:HG12	1.96	0.48
1:F:505:LEU:HD22	1:F:771:LEU:CD2	2.44	0.48
1:A:492:LYS:NZ	1:A:498:LEU:HB2	2.29	0.48
1:A:505:LEU:HD22	1:A:771:LEU:CD2	2.44	0.48
1:B:264:SER:HA	1:B:319:ALA:O	2.13	0.48
1:B:292:PHE:CE2	1:C:256:PRO:HA	2.48	0.48
1:B:633:SER:HB2	1:B:667:TYR:HD2	1.79	0.48
1:C:276:ASN:O	1:C:280:GLU:HG3	2.13	0.48
1:C:312:GLY:O	1:C:313:LYS:NZ	2.38	0.48
1:C:428:GLY:N	1:C:431:ASP:OD1	2.47	0.48
1:C:505:LEU:HD22	1:C:771:LEU:CD2	2.44	0.48
1:C:723:LYS:HD3	1:D:1186:ILE:HD13	1.96	0.48
1:D:639:LEU:CD1	1:D:674:TRP:HE1	2.27	0.48
1:E:265:PHE:H	1:E:319:ALA:CA	2.26	0.48
1:E:521:MET:O	1:E:525:ARG:HG2	2.13	0.48
1:F:318:ARG:NH1	1:F:337:LYS:HE2	2.28	0.48
1:F:463:LEU:C	1:F:466:MET:HG2	2.38	0.48
1:F:492:LYS:NZ	1:F:498:LEU:HB2	2.29	0.48
1:F:497:GLN:NE2	1:F:500:ARG:HH12	2.11	0.48
1:F:557:GLU:HA	1:F:560:LEU:HD21	1.95	0.48
1:A:1176:GLU:HA	1:A:1179:ARG:CG	2.44	0.48
1:B:497:GLN:NE2	1:B:500:ARG:HH12	2.11	0.48
1:B:604:ARG:CB	1:B:701:PHE:HB3	2.43	0.48
1:B:610:ARG:CZ	1:B:611:LYS:H	2.27	0.48
1:C:331:VAL:HA	1:C:364:GLN:HE22	1.77	0.48
1:C:1134:LEU:CD1	1:C:1178:GLU:HB3	2.43	0.48
1:C:1176:GLU:HA	1:C:1179:ARG:CG	2.44	0.48
1:D:470:LYS:HE2	1:D:523:MET:HG3	1.96	0.48
1:D:1176:GLU:HA	1:D:1179:ARG:CG	2.44	0.48
1:E:731:TYR:HE1	1:E:1146:THR:HA	1.77	0.48
1:F:663:PRO:CG	1:F:698:GLN:HE21	2.25	0.48
1:A:334:TYR:HB2	1:A:368:ILE:HG12	1.96	0.48
1:A:604:ARG:CB	1:A:701:PHE:HB3	2.43	0.48
1:A:610:ARG:CZ	1:A:611:LYS:H	2.27	0.48
1:B:470:LYS:HE2	1:B:523:MET:HG3	1.96	0.48
1:C:639:LEU:CD1	1:C:674:TRP:HE1	2.27	0.48
1:C:648:GLU:OE1	1:C:682:ALA:HA	2.13	0.48
1:D:492:LYS:HZ3	1:D:498:LEU:HB2	1.79	0.48
1:E:659:ARG:HD2	1:F:535:ILE:HG13	1.94	0.48
1:E:1134:LEU:CD1	1:E:1178:GLU:HB3	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:444:ARG:HA	1:F:447:ILE:HG22	1.95	0.48
1:F:633:SER:HB2	1:F:667:TYR:HD2	1.79	0.48
1:A:470:LYS:HE2	1:A:523:MET:HG3	1.96	0.48
1:B:602:LYS:CG	1:B:695:PHE:HA	2.42	0.48
1:B:1135:LYS:O	1:B:1138:LEU:HG	2.14	0.48
1:C:265:PHE:H	1:C:319:ALA:CA	2.26	0.48
1:C:659:ARG:HD2	1:D:535:ILE:CD1	2.42	0.48
1:D:334:TYR:HB2	1:D:368:ILE:HG12	1.95	0.48
1:D:505:LEU:HD22	1:D:771:LEU:CD2	2.44	0.48
1:D:604:ARG:CB	1:D:701:PHE:HB3	2.44	0.48
1:F:428:GLY:N	1:F:431:ASP:OD1	2.47	0.48
1:A:497:GLN:NE2	1:A:500:ARG:HH12	2.12	0.47
1:A:515:LYS:HG2	1:A:517:LYS:N	2.26	0.47
1:B:276:ASN:O	1:B:279:LYS:HG2	2.13	0.47
1:B:663:PRO:HA	1:B:698:GLN:O	2.13	0.47
1:C:361:LYS:NZ	1:C:403:GLU:OE2	2.40	0.47
1:C:497:GLN:HG2	1:C:766:LEU:CD2	2.39	0.47
1:D:610:ARG:CZ	1:D:611:LYS:H	2.27	0.47
1:D:636:MET:HG2	1:D:677:VAL:HG11	1.96	0.47
1:D:663:PRO:HA	1:D:698:GLN:O	2.13	0.47
1:E:505:LEU:HD22	1:E:771:LEU:CD2	2.44	0.47
1:E:544:GLU:OE1	1:E:544:GLU:N	2.36	0.47
1:E:604:ARG:CB	1:E:701:PHE:HB3	2.43	0.47
1:F:544:GLU:OE1	1:F:544:GLU:N	2.36	0.47
1:F:1176:GLU:HA	1:F:1179:ARG:CG	2.44	0.47
1:A:493:ARG:HE	1:A:515:LYS:HE3	1.79	0.47
1:B:318:ARG:NH1	1:B:337:LYS:HE2	2.28	0.47
1:B:361:LYS:NZ	1:B:403:GLU:OE2	2.40	0.47
1:B:606:LEU:HA	1:B:703:ALA:O	2.15	0.47
1:C:444:ARG:HA	1:C:447:ILE:HG22	1.95	0.47
1:C:1135:LYS:O	1:C:1138:LEU:HG	2.14	0.47
1:D:474:TYR:O	1:D:478:ASP:HB2	2.13	0.47
1:D:492:LYS:NZ	1:D:498:LEU:HB2	2.29	0.47
1:E:497:GLN:NE2	1:E:766:LEU:HD23	2.27	0.47
1:E:515:LYS:HG2	1:E:517:LYS:N	2.26	0.47
1:E:610:ARG:CZ	1:E:611:LYS:H	2.27	0.47
1:F:265:PHE:H	1:F:319:ALA:CA	2.26	0.47
1:F:604:ARG:CB	1:F:701:PHE:HB3	2.43	0.47
1:F:639:LEU:CD1	1:F:674:TRP:HE1	2.27	0.47
1:F:1134:LEU:CD1	1:F:1178:GLU:HB3	2.43	0.47
1:F:1135:LYS:O	1:F:1138:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:258:GLY:H	1:F:298:GLN:HB3	1.78	0.47
1:A:636:MET:HG2	1:A:677:VAL:HG11	1.96	0.47
1:A:639:LEU:CD1	1:A:674:TRP:HE1	2.27	0.47
1:B:357:PHE:O	1:B:361:LYS:HG3	2.15	0.47
1:B:497:GLN:NE2	1:B:766:LEU:HD23	2.27	0.47
1:D:580:ASP:CB	1:E:761:ARG:HH11	2.25	0.47
1:D:663:PRO:CG	1:D:698:GLN:HE21	2.25	0.47
1:E:492:LYS:NZ	1:E:498:LEU:HB2	2.29	0.47
1:E:633:SER:HB2	1:E:667:TYR:HD2	1.79	0.47
1:F:754:GLU:O	1:F:755:LEU:HD23	2.13	0.47
1:A:497:GLN:NE2	1:A:766:LEU:HD23	2.27	0.47
1:A:504:ARG:HG2	1:F:287:LEU:HD12	1.95	0.47
1:A:517:LYS:HB2	1:F:583:GLU:OE2	2.14	0.47
1:C:357:PHE:O	1:C:361:LYS:HG3	2.15	0.47
1:C:544:GLU:H	1:C:544:GLU:CD	2.22	0.47
1:D:357:PHE:O	1:D:361:LYS:HG3	2.14	0.47
1:D:374:ASP:HB3	1:D:419:ALA:HB1	1.95	0.47
1:D:607:ILE:HB	1:D:704:LEU:HB2	1.95	0.47
1:E:493:ARG:HE	1:E:515:LYS:HE3	1.79	0.47
1:E:602:LYS:CG	1:E:695:PHE:HA	2.42	0.47
1:E:606:LEU:HA	1:E:703:ALA:O	2.15	0.47
1:E:707:SER:OG	1:E:711:GLU:HG3	2.14	0.47
1:A:298:GLN:HB3	1:B:258:GLY:H	1.78	0.47
1:A:497:GLN:HG2	1:A:766:LEU:CD2	2.40	0.47
1:A:707:SER:OG	1:A:711:GLU:HG3	2.14	0.47
1:B:557:GLU:HA	1:B:560:LEU:HD21	1.95	0.47
1:C:329:LYS:HA	1:C:330:LYS:HA	1.58	0.47
1:C:470:LYS:HE2	1:C:523:MET:HG3	1.96	0.47
1:C:602:LYS:CG	1:C:695:PHE:HA	2.42	0.47
1:D:667:TYR:CD1	1:D:702:LEU:HD22	2.50	0.47
1:D:689:MET:HA	1:D:692:ARG:CB	2.39	0.47
1:E:470:LYS:HE2	1:E:523:MET:HG3	1.96	0.47
1:E:667:TYR:CD1	1:E:702:LEU:HD22	2.50	0.47
1:E:1135:LYS:O	1:E:1138:LEU:HG	2.14	0.47
1:F:281:MET:O	1:F:285:PRO:HD3	2.15	0.47
1:F:357:PHE:O	1:F:361:LYS:HG3	2.14	0.47
1:F:473:GLY:O	1:F:529:SER:N	2.22	0.47
1:A:278:LEU:HD12	1:A:279:LYS:N	2.30	0.47
1:A:428:GLY:N	1:A:431:ASP:OD1	2.47	0.47
1:A:507:ILE:HD12	1:A:511:THR:OG1	2.14	0.47
1:A:544:GLU:OE1	1:A:544:GLU:N	2.36	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:607:ILE:HB	1:A:704:LEU:HB2	1.95	0.47
1:A:633:SER:HB2	1:A:667:TYR:HD2	1.79	0.47
1:B:492:LYS:NZ	1:B:498:LEU:HB2	2.29	0.47
1:C:292:PHE:HD2	1:D:256:PRO:HA	1.79	0.47
1:C:610:ARG:CZ	1:C:611:LYS:H	2.27	0.47
1:C:667:TYR:CD1	1:C:702:LEU:HD22	2.50	0.47
1:D:507:ILE:HD12	1:D:511:THR:OG1	2.14	0.47
1:D:634:PHE:CB	1:D:668:ILE:HD11	2.45	0.47
1:D:638:THR:HA	1:D:641:GLN:CB	2.39	0.47
1:D:1134:LEU:CD1	1:D:1178:GLU:HB3	2.43	0.47
1:E:281:MET:O	1:E:285:PRO:HD3	2.15	0.47
1:E:497:GLN:CG	1:E:766:LEU:HD23	2.41	0.47
1:E:639:LEU:CD1	1:E:674:TRP:HE1	2.27	0.47
1:E:663:PRO:CG	1:E:698:GLN:HE21	2.25	0.47
1:A:281:MET:O	1:A:285:PRO:HD3	2.15	0.47
1:A:329:LYS:HA	1:A:330:LYS:HA	1.58	0.47
1:A:331:VAL:CA	1:A:364:GLN:HE22	2.28	0.47
1:A:445:LYS:HE2	1:A:449:GLU:CD	2.40	0.47
1:A:557:GLU:HA	1:A:560:LEU:HD21	1.95	0.47
1:A:667:TYR:CD1	1:A:702:LEU:HD22	2.50	0.47
1:A:1134:LEU:CD1	1:A:1178:GLU:HB3	2.43	0.47
1:B:445:LYS:HE2	1:B:449:GLU:CD	2.40	0.47
1:B:493:ARG:HE	1:B:515:LYS:HE3	1.79	0.47
1:B:639:LEU:CD1	1:B:674:TRP:HE1	2.27	0.47
1:B:645:GLN:NE2	1:B:650:SER:HA	2.30	0.47
1:C:284:LEU:HD11	1:D:498:LEU:HD22	1.96	0.47
1:C:374:ASP:HB3	1:C:419:ALA:HB1	1.95	0.47
1:C:645:GLN:NE2	1:C:650:SER:HA	2.30	0.47
1:C:1128:GLU:OE2	1:C:1130:ARG:NE	2.35	0.47
1:D:278:LEU:HD12	1:D:279:LYS:N	2.30	0.47
1:D:370:PHE:O	1:D:413:ALA:N	2.40	0.47
1:D:497:GLN:NE2	1:D:766:LEU:HD23	2.27	0.47
1:D:557:GLU:HA	1:D:560:LEU:HD21	1.95	0.47
1:D:606:LEU:HA	1:D:703:ALA:O	2.15	0.47
1:D:677:VAL:HB	1:D:678:LEU:CD2	2.45	0.47
1:E:331:VAL:CA	1:E:364:GLN:HE22	2.28	0.47
1:E:492:LYS:HZ3	1:E:498:LEU:HB2	1.80	0.47
1:E:607:ILE:HB	1:E:704:LEU:HB2	1.95	0.47
1:F:331:VAL:HA	1:F:364:GLN:HE22	1.78	0.47
1:F:331:VAL:CA	1:F:364:GLN:HE22	2.28	0.47
1:F:497:GLN:NE2	1:F:766:LEU:HD23	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:645:GLN:NE2	1:F:650:SER:HA	2.30	0.47
1:F:677:VAL:HB	1:F:678:LEU:CD2	2.45	0.47
1:A:546:LYS:HA	1:A:550:ASN:OD1	2.15	0.47
1:A:634:PHE:CB	1:A:668:ILE:HD11	2.45	0.47
1:A:737:ILE:O	1:A:740:PHE:HB3	2.15	0.47
1:B:329:LYS:HA	1:B:330:LYS:HA	1.58	0.47
1:B:677:VAL:HB	1:B:678:LEU:CD2	2.45	0.47
1:C:445:LYS:HE2	1:C:449:GLU:CD	2.40	0.47
1:C:557:GLU:HA	1:C:560:LEU:HD21	1.95	0.47
1:C:655:PHE:CD1	1:C:689:MET:HB3	2.50	0.47
1:C:677:VAL:HB	1:C:678:LEU:CD2	2.45	0.47
1:D:331:VAL:CA	1:D:364:GLN:HE22	2.28	0.47
1:D:521:MET:O	1:D:525:ARG:HG2	2.13	0.47
1:E:278:LEU:HD12	1:E:279:LYS:N	2.30	0.47
1:E:327:GLU:OE1	1:E:327:GLU:N	2.48	0.47
1:F:329:LYS:HA	1:F:330:LYS:HA	1.58	0.47
1:F:374:ASP:HB3	1:F:419:ALA:HB1	1.95	0.47
1:F:445:LYS:HE2	1:F:449:GLU:CD	2.40	0.47
1:A:610:ARG:HD2	1:A:708:PRO:CD	2.44	0.47
1:A:677:VAL:HB	1:A:678:LEU:CD2	2.45	0.47
1:B:327:GLU:OE1	1:B:327:GLU:N	2.48	0.47
1:B:507:ILE:HD12	1:B:511:THR:OG1	2.15	0.47
1:B:607:ILE:HB	1:B:704:LEU:HB2	1.95	0.47
1:B:639:LEU:HD11	1:B:674:TRP:HE1	1.80	0.47
1:B:655:PHE:CD1	1:B:689:MET:HB3	2.50	0.47
1:B:663:PRO:CG	1:B:698:GLN:HE21	2.25	0.47
1:C:278:LEU:HD12	1:C:279:LYS:N	2.30	0.47
1:C:281:MET:O	1:C:285:PRO:HD3	2.15	0.47
1:C:492:LYS:NZ	1:C:498:LEU:HB2	2.29	0.47
1:C:497:GLN:NE2	1:C:766:LEU:HD23	2.27	0.47
1:C:607:ILE:HB	1:C:704:LEU:HB2	1.95	0.47
1:C:1148:ASP:HA	1:C:1151:LEU:HG	1.97	0.47
1:D:281:MET:O	1:D:285:PRO:HD3	2.15	0.47
1:D:544:GLU:OE1	1:D:544:GLU:N	2.36	0.47
1:D:580:ASP:HB2	1:D:582:LYS:HZ1	1.80	0.47
1:D:602:LYS:CG	1:D:695:PHE:HA	2.42	0.47
1:D:723:LYS:HG2	1:D:724:GLN:OE1	2.15	0.47
1:D:1180:ALA:HA	1:D:1183:GLU:CG	2.45	0.47
1:E:587:GLU:CA	1:E:590:GLN:HG2	2.45	0.47
1:E:1148:ASP:HA	1:E:1151:LEU:HG	1.97	0.47
1:F:546:LYS:HA	1:F:550:ASN:OD1	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:655:PHE:CD1	1:F:689:MET:HB3	2.50	0.47
1:A:1135:LYS:O	1:A:1138:LEU:HG	2.14	0.47
1:B:278:LEU:HD12	1:B:279:LYS:N	2.30	0.47
1:B:281:MET:O	1:B:285:PRO:HD3	2.15	0.47
1:B:295:PHE:HE2	1:C:457:PRO:CD	2.28	0.47
1:B:723:LYS:HG2	1:B:724:GLN:OE1	2.15	0.47
1:B:1148:ASP:HA	1:B:1151:LEU:HG	1.97	0.47
1:C:539:LYS:CA	1:C:624:GLN:HE21	2.26	0.47
1:C:633:SER:HB2	1:C:667:TYR:HD2	1.79	0.47
1:D:371:ASP:HA	1:D:413:ALA:CB	2.37	0.47
1:E:398:LEU:HD23	1:E:403:GLU:OE1	2.15	0.47
1:E:561:GLN:HA	1:E:564:MET:O	2.15	0.47
1:E:606:LEU:HB2	1:E:720:PHE:CE2	2.50	0.47
1:E:634:PHE:CB	1:E:668:ILE:HD11	2.45	0.47
1:E:636:MET:HG2	1:E:677:VAL:HG11	1.96	0.47
1:E:677:VAL:HB	1:E:678:LEU:CD2	2.45	0.47
1:F:636:MET:HG2	1:F:677:VAL:HG11	1.96	0.47
1:A:357:PHE:O	1:A:361:LYS:HG3	2.14	0.46
1:A:521:MET:O	1:A:525:ARG:HG2	2.13	0.46
1:A:1180:ALA:HA	1:A:1183:GLU:CG	2.45	0.46
1:A:1180:ALA:HA	1:A:1183:GLU:HG3	1.98	0.46
1:B:497:GLN:CG	1:B:766:LEU:HD23	2.41	0.46
1:B:606:LEU:HB2	1:B:720:PHE:CE2	2.50	0.46
1:B:707:SER:OG	1:B:711:GLU:HG3	2.14	0.46
1:C:639:LEU:HD11	1:C:674:TRP:HE1	1.80	0.46
1:C:707:SER:OG	1:C:711:GLU:HG3	2.14	0.46
1:C:709:LEU:HA	1:C:712:LEU:HG	1.97	0.46
1:C:737:ILE:O	1:C:740:PHE:HB3	2.15	0.46
1:D:546:LYS:HA	1:D:550:ASN:OD1	2.15	0.46
1:D:709:LEU:HA	1:D:712:LEU:HG	1.97	0.46
1:E:639:LEU:HD11	1:E:674:TRP:HE1	1.80	0.46
1:F:398:LEU:HD23	1:F:403:GLU:OE1	2.15	0.46
1:F:445:LYS:HA	1:F:448:ILE:HG22	1.97	0.46
1:F:587:GLU:CA	1:F:590:GLN:HG2	2.45	0.46
1:F:737:ILE:O	1:F:740:PHE:HB3	2.15	0.46
1:A:544:GLU:H	1:A:544:GLU:CD	2.22	0.46
1:A:602:LYS:CG	1:A:695:PHE:HA	2.42	0.46
1:A:606:LEU:HB2	1:A:720:PHE:CE2	2.50	0.46
1:B:636:MET:HG2	1:B:677:VAL:HG11	1.96	0.46
1:B:689:MET:HA	1:B:692:ARG:CB	2.39	0.46
1:B:709:LEU:HA	1:B:712:LEU:HG	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:331:VAL:CA	1:C:364:GLN:HE22	2.28	0.46
1:C:587:GLU:CA	1:C:590:GLN:HG2	2.45	0.46
1:C:634:PHE:CB	1:C:668:ILE:HD11	2.45	0.46
1:D:610:ARG:HD2	1:D:708:PRO:CD	2.45	0.46
1:D:633:SER:HB2	1:D:667:TYR:HD2	1.79	0.46
1:D:639:LEU:HD11	1:D:674:TRP:HE1	1.80	0.46
1:F:361:LYS:NZ	1:F:403:GLU:OE2	2.40	0.46
1:F:580:ASP:HB2	1:F:582:LYS:HZ1	1.79	0.46
1:F:607:ILE:HB	1:F:704:LEU:HB2	1.95	0.46
1:F:634:PHE:CB	1:F:668:ILE:HD11	2.45	0.46
1:A:327:GLU:OE1	1:A:327:GLU:N	2.48	0.46
1:A:655:PHE:CD1	1:A:689:MET:HB3	2.50	0.46
1:A:689:MET:HA	1:A:692:ARG:CB	2.39	0.46
1:B:398:LEU:HD23	1:B:403:GLU:OE1	2.15	0.46
1:B:461:GLU:O	1:B:464:CYS:HB2	2.16	0.46
1:B:634:PHE:CB	1:B:668:ILE:HD11	2.45	0.46
1:B:667:TYR:CD1	1:B:702:LEU:HD22	2.50	0.46
1:C:397:ALA:CA	1:C:401:GLY:HA3	2.45	0.46
1:C:445:LYS:HA	1:C:448:ILE:HG22	1.97	0.46
1:C:507:ILE:HD12	1:C:511:THR:OG1	2.14	0.46
1:C:648:GLU:HA	1:C:651:ILE:CD1	2.43	0.46
1:C:723:LYS:HG2	1:C:724:GLN:OE1	2.15	0.46
1:D:428:GLY:N	1:D:431:ASP:OD1	2.47	0.46
1:D:445:LYS:HE2	1:D:449:GLU:CD	2.40	0.46
1:D:707:SER:OG	1:D:711:GLU:HG3	2.14	0.46
1:E:737:ILE:O	1:E:740:PHE:HB3	2.15	0.46
1:F:278:LEU:HD12	1:F:279:LYS:N	2.30	0.46
1:F:544:GLU:H	1:F:544:GLU:CD	2.22	0.46
1:F:606:LEU:HB2	1:F:720:PHE:CE2	2.50	0.46
1:A:337:LYS:HD2	1:A:337:LYS:N	2.30	0.46
1:A:606:LEU:HA	1:A:703:ALA:O	2.15	0.46
1:B:445:LYS:HA	1:B:448:ILE:HG22	1.97	0.46
1:B:759:ILE:HB	1:B:761:ARG:NH2	2.27	0.46
1:C:337:LYS:HD2	1:C:337:LYS:N	2.30	0.46
1:C:599:ARG:HG2	1:D:1158:TYR:HB3	1.97	0.46
1:C:606:LEU:HB2	1:C:720:PHE:CE2	2.50	0.46
1:C:657:GLU:O	1:C:660:ARG:HB3	2.16	0.46
1:D:337:LYS:HD2	1:D:337:LYS:N	2.30	0.46
1:D:397:ALA:CA	1:D:401:GLY:HA3	2.45	0.46
1:D:515:LYS:HG2	1:D:517:LYS:N	2.26	0.46
1:D:657:GLU:O	1:D:660:ARG:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:737:ILE:O	1:D:740:PHE:HB3	2.15	0.46
1:D:1135:LYS:O	1:D:1138:LEU:HG	2.14	0.46
1:E:1178:GLU:O	1:E:1181:VAL:HB	2.15	0.46
1:F:470:LYS:HE2	1:F:523:MET:HG3	1.96	0.46
1:F:497:GLN:HG2	1:F:766:LEU:CD2	2.40	0.46
1:F:646:SER:OG	1:F:649:THR:OG1	2.03	0.46
1:F:1148:ASP:HA	1:F:1151:LEU:HG	1.97	0.46
1:F:1178:GLU:O	1:F:1181:VAL:HB	2.15	0.46
1:A:461:GLU:O	1:A:464:CYS:HB2	2.16	0.46
1:A:561:GLN:HA	1:A:564:MET:O	2.15	0.46
1:A:639:LEU:HD11	1:A:674:TRP:HE1	1.80	0.46
1:A:645:GLN:NE2	1:A:650:SER:HA	2.30	0.46
1:A:680:LEU:HD13	1:A:683:ILE:HD12	1.98	0.46
1:A:1178:GLU:O	1:A:1181:VAL:HB	2.15	0.46
1:B:331:VAL:CA	1:B:364:GLN:HE22	2.28	0.46
1:B:337:LYS:HD2	1:B:337:LYS:N	2.30	0.46
1:B:546:LYS:HA	1:B:550:ASN:OD1	2.15	0.46
1:C:467:LEU:HA	1:C:470:LYS:HZ3	1.80	0.46
1:C:546:LYS:HA	1:C:550:ASN:OD1	2.15	0.46
1:C:561:GLN:HA	1:C:564:MET:O	2.15	0.46
1:D:361:LYS:NZ	1:D:403:GLU:OE2	2.40	0.46
1:E:357:PHE:O	1:E:361:LYS:HG3	2.14	0.46
1:E:371:ASP:HA	1:E:413:ALA:CB	2.37	0.46
1:E:445:LYS:HA	1:E:448:ILE:HG22	1.97	0.46
1:E:645:GLN:NE2	1:E:650:SER:HA	2.30	0.46
1:E:1180:ALA:HA	1:E:1183:GLU:HG3	1.98	0.46
1:F:561:GLN:HA	1:F:564:MET:O	2.15	0.46
1:F:657:GLU:O	1:F:660:ARG:HB3	2.16	0.46
1:F:667:TYR:CD1	1:F:702:LEU:HD22	2.50	0.46
1:F:723:LYS:HG2	1:F:724:GLN:OE1	2.15	0.46
1:F:1180:ALA:HA	1:F:1183:GLU:HG3	1.98	0.46
1:A:640:LEU:HD13	1:A:640:LEU:HA	1.70	0.46
1:B:515:LYS:HG2	1:B:517:LYS:N	2.26	0.46
1:B:610:ARG:HD2	1:B:708:PRO:CD	2.45	0.46
1:B:648:GLU:HA	1:B:651:ILE:CD1	2.43	0.46
1:C:493:ARG:HE	1:C:515:LYS:HE3	1.79	0.46
1:C:1178:GLU:O	1:C:1181:VAL:HB	2.15	0.46
1:C:1180:ALA:HA	1:C:1183:GLU:HG3	1.98	0.46
1:D:680:LEU:HD13	1:D:683:ILE:HD12	1.98	0.46
1:E:337:LYS:HD2	1:E:337:LYS:N	2.30	0.46
1:E:461:GLU:O	1:E:464:CYS:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:547:PRO:O	1:E:548:LEU:HD23	2.16	0.46
1:E:607:ILE:O	1:E:705:SER:N	2.49	0.46
1:E:638:THR:HA	1:E:641:GLN:CB	2.39	0.46
1:E:655:PHE:CD1	1:E:689:MET:HB3	2.50	0.46
1:E:689:MET:HA	1:E:692:ARG:CB	2.40	0.46
1:E:1180:ALA:HA	1:E:1183:GLU:CG	2.45	0.46
1:F:606:LEU:HA	1:F:703:ALA:O	2.15	0.46
1:F:639:LEU:HD11	1:F:674:TRP:HE1	1.80	0.46
1:A:659:ARG:HD2	1:B:535:ILE:HG13	1.98	0.46
1:B:657:GLU:O	1:B:660:ARG:HB3	2.16	0.46
1:C:547:PRO:O	1:C:548:LEU:HD23	2.16	0.46
1:C:606:LEU:HA	1:C:703:ALA:O	2.15	0.46
1:D:327:GLU:N	1:D:327:GLU:OE1	2.48	0.46
1:D:655:PHE:CD1	1:D:689:MET:HB3	2.50	0.46
1:D:1180:ALA:HA	1:D:1183:GLU:HG3	1.98	0.46
1:E:383:LYS:O	1:F:384:GLN:NE2	2.44	0.46
1:E:507:ILE:HD12	1:E:511:THR:OG1	2.15	0.46
1:E:546:LYS:HA	1:E:550:ASN:OD1	2.15	0.46
1:E:709:LEU:O	1:E:710:SER:OG	2.26	0.46
1:F:337:LYS:HD2	1:F:337:LYS:N	2.30	0.46
1:F:709:LEU:HA	1:F:712:LEU:HG	1.97	0.46
1:A:287:LEU:HD12	1:B:504:ARG:HG2	1.98	0.46
1:A:339:ALA:HB3	1:F:380:ARG:HH12	1.81	0.46
1:A:491:ILE:HG22	1:A:498:LEU:HD11	1.98	0.46
1:B:280:GLU:C	1:B:284:LEU:HD23	2.41	0.46
1:B:547:PRO:O	1:B:548:LEU:HD23	2.16	0.46
1:B:1180:ALA:HA	1:B:1183:GLU:HG3	1.98	0.46
1:D:398:LEU:HD23	1:D:403:GLU:OE1	2.16	0.46
1:D:461:GLU:O	1:D:464:CYS:HB2	2.16	0.46
1:D:473:GLY:O	1:D:529:SER:N	2.22	0.46
1:D:493:ARG:HE	1:D:515:LYS:HE3	1.79	0.46
1:D:606:LEU:HB2	1:D:720:PHE:CE2	2.50	0.46
1:D:1148:ASP:HA	1:D:1151:LEU:HG	1.97	0.46
1:D:1178:GLU:O	1:D:1181:VAL:HB	2.15	0.46
1:E:657:GLU:O	1:E:660:ARG:HB3	2.16	0.46
1:F:493:ARG:HE	1:F:515:LYS:HE3	1.79	0.46
1:F:507:ILE:HD12	1:F:511:THR:OG1	2.15	0.46
1:F:547:PRO:O	1:F:548:LEU:HD23	2.16	0.46
1:F:1180:ALA:HA	1:F:1183:GLU:CG	2.45	0.46
1:A:280:GLU:C	1:A:284:LEU:HD23	2.41	0.46
1:A:330:LYS:HD3	1:A:330:LYS:HA	1.82	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:648:GLU:HA	1:A:651:ILE:CD1	2.43	0.46
1:A:723:LYS:HG2	1:A:724:GLN:OE1	2.15	0.46
1:B:1158:TYR:CD1	1:B:1161:ILE:HD11	2.51	0.46
1:C:1158:TYR:CD1	1:C:1161:ILE:HD11	2.51	0.46
1:D:547:PRO:O	1:D:548:LEU:HD23	2.16	0.46
1:D:1158:TYR:CD1	1:D:1161:ILE:HD11	2.51	0.46
1:E:709:LEU:HA	1:E:712:LEU:HG	1.97	0.46
1:F:515:LYS:HG2	1:F:517:LYS:N	2.26	0.46
1:A:398:LEU:HD23	1:A:403:GLU:OE1	2.15	0.46
1:A:538:SER:HA	1:A:620:PRO:O	2.16	0.46
1:A:589:GLN:NE2	1:B:517:LYS:HG3	2.31	0.46
1:A:607:ILE:O	1:A:705:SER:N	2.49	0.46
1:A:1158:TYR:CD1	1:A:1161:ILE:HD11	2.51	0.46
1:B:607:ILE:O	1:B:705:SER:N	2.49	0.46
1:B:680:LEU:HD13	1:B:683:ILE:HD12	1.98	0.46
1:B:1180:ALA:HA	1:B:1183:GLU:CG	2.45	0.46
1:C:497:GLN:CG	1:C:766:LEU:HD23	2.41	0.46
1:C:636:MET:HG2	1:C:677:VAL:HG11	1.96	0.46
1:D:445:LYS:HA	1:D:448:ILE:HG22	1.97	0.46
1:D:561:GLN:HA	1:D:564:MET:O	2.15	0.46
1:D:645:GLN:NE2	1:D:650:SER:HA	2.30	0.46
1:D:648:GLU:HA	1:D:651:ILE:CD1	2.43	0.46
1:D:680:LEU:HA	1:D:680:LEU:HD13	1.75	0.46
1:E:445:LYS:HE2	1:E:449:GLU:CD	2.40	0.46
1:E:605:PHE:CZ	1:E:727:TYR:HB2	2.46	0.46
1:F:461:GLU:O	1:F:464:CYS:HB2	2.16	0.46
1:A:445:LYS:HA	1:A:448:ILE:HG22	1.97	0.45
1:A:547:PRO:O	1:A:548:LEU:HD23	2.16	0.45
1:B:492:LYS:HZ3	1:B:498:LEU:HB2	1.81	0.45
1:B:561:GLN:HA	1:B:564:MET:O	2.15	0.45
1:C:398:LEU:HD23	1:C:403:GLU:OE1	2.15	0.45
1:C:607:ILE:O	1:C:705:SER:N	2.49	0.45
1:C:740:PHE:CE2	1:C:1150:LEU:HB3	2.52	0.45
1:D:491:ILE:HG22	1:D:498:LEU:HD11	1.98	0.45
1:D:538:SER:HA	1:D:620:PRO:O	2.16	0.45
1:D:544:GLU:H	1:D:544:GLU:CD	2.22	0.45
1:D:587:GLU:CA	1:D:590:GLN:HG2	2.45	0.45
1:E:541:LEU:HG	1:E:545:LEU:HB2	1.98	0.45
1:E:544:GLU:H	1:E:544:GLU:CD	2.22	0.45
1:F:280:GLU:C	1:F:284:LEU:HD23	2.41	0.45
1:F:680:LEU:HD13	1:F:683:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:759:ILE:HB	1:F:761:ARG:NH2	2.27	0.45
1:A:334:TYR:O	1:A:369:PHE:N	2.45	0.45
1:B:467:LEU:HA	1:B:470:LYS:HZ1	1.81	0.45
1:B:541:LEU:HG	1:B:545:LEU:HB2	1.99	0.45
1:B:613:LEU:HA	1:B:1147:VAL:HG23	1.98	0.45
1:C:667:TYR:CZ	1:C:669:PRO:HG3	2.52	0.45
1:C:1180:ALA:HA	1:C:1183:GLU:CG	2.45	0.45
1:D:541:LEU:HG	1:D:545:LEU:HB2	1.98	0.45
1:F:538:SER:HA	1:F:620:PRO:O	2.16	0.45
1:A:541:LEU:HG	1:A:545:LEU:HB2	1.98	0.45
1:A:1148:ASP:HA	1:A:1151:LEU:HG	1.97	0.45
1:B:538:SER:HA	1:B:620:PRO:O	2.16	0.45
1:B:587:GLU:CA	1:B:590:GLN:HG2	2.45	0.45
1:B:638:THR:HA	1:B:641:GLN:CB	2.39	0.45
1:C:305:PHE:HE2	1:C:317:ALA:HA	1.81	0.45
1:C:680:LEU:HD13	1:C:683:ILE:HD12	1.98	0.45
1:D:316:MET:O	1:D:319:ALA:HB3	2.16	0.45
1:D:667:TYR:CZ	1:D:669:PRO:HG3	2.52	0.45
1:E:280:GLU:C	1:E:284:LEU:HD23	2.41	0.45
1:E:316:MET:O	1:E:319:ALA:HB3	2.17	0.45
1:F:397:ALA:CA	1:F:401:GLY:HA3	2.45	0.45
1:F:442:ASP:O	1:F:445:LYS:HB3	2.17	0.45
1:F:1158:TYR:CD1	1:F:1161:ILE:HD11	2.51	0.45
1:B:695:PHE:CE2	1:C:1151:LEU:HB3	2.51	0.45
1:B:737:ILE:O	1:B:740:PHE:HB3	2.15	0.45
1:B:1178:GLU:O	1:B:1181:VAL:HB	2.15	0.45
1:C:316:MET:O	1:C:319:ALA:HB3	2.17	0.45
1:C:541:LEU:HD23	1:C:546:LYS:HG2	1.99	0.45
1:D:329:LYS:HA	1:D:330:LYS:HA	1.58	0.45
1:E:278:LEU:HD13	1:E:320:LEU:HD13	1.99	0.45
1:E:538:SER:HA	1:E:620:PRO:O	2.16	0.45
1:E:613:LEU:HA	1:E:1147:VAL:HG23	1.98	0.45
1:F:333:PHE:CD1	1:F:367:ILE:HD11	2.52	0.45
1:F:638:THR:HA	1:F:641:GLN:CB	2.39	0.45
1:F:707:SER:OG	1:F:711:GLU:HG3	2.14	0.45
1:F:1138:LEU:HD12	1:F:1139:ILE:N	2.32	0.45
1:A:316:MET:O	1:A:319:ALA:HB3	2.17	0.45
1:A:333:PHE:CD1	1:A:367:ILE:HD11	2.52	0.45
1:A:587:GLU:CA	1:A:590:GLN:HG2	2.45	0.45
1:A:613:LEU:HA	1:A:1147:VAL:HG23	1.98	0.45
1:B:306:HIS:C	1:B:313:LYS:HE3	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:333:PHE:CD1	1:B:367:ILE:HD11	2.52	0.45
1:B:396:LEU:HD11	1:B:423:ALA:HB1	1.98	0.45
1:B:541:LEU:HD23	1:B:546:LYS:HG2	1.99	0.45
1:B:598:LEU:CB	1:C:1158:TYR:HE2	2.28	0.45
1:B:709:LEU:O	1:B:710:SER:OG	2.26	0.45
1:C:280:GLU:C	1:C:284:LEU:HD23	2.41	0.45
1:C:442:ASP:O	1:C:445:LYS:HB3	2.17	0.45
1:C:610:ARG:HD2	1:C:708:PRO:CD	2.45	0.45
1:C:613:LEU:HA	1:C:1147:VAL:HG23	1.98	0.45
1:D:596:GLU:H	1:D:599:ARG:CD	2.27	0.45
1:D:698:GLN:OE1	1:D:698:GLN:N	2.48	0.45
1:E:396:LEU:HD11	1:E:423:ALA:HB1	1.99	0.45
1:E:648:GLU:HA	1:E:651:ILE:CD1	2.43	0.45
1:E:680:LEU:HD13	1:E:683:ILE:HD12	1.98	0.45
1:E:723:LYS:HG2	1:E:724:GLN:OE1	2.15	0.45
1:F:287:LEU:HG	1:F:288:TYR:CD1	2.52	0.45
1:F:305:PHE:HE2	1:F:317:ALA:HA	1.81	0.45
1:F:327:GLU:OE1	1:F:327:GLU:N	2.48	0.45
1:F:590:GLN:HA	1:F:593:GLU:HG2	1.99	0.45
1:A:278:LEU:HD13	1:A:320:LEU:HD13	1.99	0.45
1:A:287:LEU:HG	1:A:288:TYR:CD1	2.52	0.45
1:A:396:LEU:HD11	1:A:423:ALA:HB1	1.99	0.45
1:A:657:GLU:O	1:A:660:ARG:HB3	2.16	0.45
1:B:397:ALA:CA	1:B:401:GLY:HA3	2.45	0.45
1:B:590:GLN:HA	1:B:593:GLU:HG2	1.99	0.45
1:C:723:LYS:HD3	1:D:1186:ILE:HD11	1.98	0.45
1:C:1137:LEU:HD13	1:C:1178:GLU:CB	2.46	0.45
1:D:333:PHE:CD1	1:D:367:ILE:HD11	2.52	0.45
1:D:388:HIS:HA	1:D:391:ILE:HG12	1.99	0.45
1:E:667:TYR:CZ	1:E:669:PRO:HG3	2.52	0.45
1:E:1158:TYR:CD1	1:E:1161:ILE:HD11	2.51	0.45
1:F:316:MET:O	1:F:319:ALA:HB3	2.16	0.45
1:F:740:PHE:CE2	1:F:1150:LEU:HB3	2.52	0.45
1:A:361:LYS:NZ	1:A:403:GLU:OE2	2.40	0.45
1:A:442:ASP:O	1:A:445:LYS:HB3	2.16	0.45
1:A:596:GLU:H	1:A:599:ARG:CD	2.27	0.45
1:A:667:TYR:CZ	1:A:669:PRO:HG3	2.52	0.45
1:A:680:LEU:HA	1:A:680:LEU:HD13	1.75	0.45
1:B:278:LEU:HD13	1:B:320:LEU:HD13	1.99	0.45
1:B:305:PHE:HE2	1:B:317:ALA:HA	1.82	0.45
1:B:333:PHE:HD1	1:B:367:ILE:HD11	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:600:ILE:HA	1:C:1155:SER:HB2	1.97	0.45
1:C:276:ASN:CA	1:C:279:LYS:HG2	2.47	0.45
1:C:287:LEU:HG	1:C:288:TYR:CD1	2.52	0.45
1:C:521:MET:HA	1:C:525:ARG:NH2	2.32	0.45
1:C:700:LEU:HD12	1:C:701:PHE:N	2.32	0.45
1:C:1138:LEU:HD12	1:C:1139:ILE:N	2.32	0.45
1:D:278:LEU:HD13	1:D:320:LEU:HD13	1.99	0.45
1:D:521:MET:HA	1:D:525:ARG:NH2	2.32	0.45
1:D:607:ILE:O	1:D:705:SER:N	2.49	0.45
1:E:271:LEU:HD21	1:E:437:PRO:CD	2.45	0.45
1:E:301:ARG:NE	1:E:405:ARG:HB3	2.31	0.45
1:E:1178:GLU:HG2	1:E:1179:ARG:N	2.32	0.45
1:F:607:ILE:O	1:F:705:SER:N	2.49	0.45
1:F:613:LEU:HA	1:F:1147:VAL:HG23	1.98	0.45
1:A:485:GLU:HA	1:A:488:LEU:HD23	1.98	0.45
1:A:605:PHE:CZ	1:A:727:TYR:HB2	2.46	0.45
1:B:271:LEU:HD21	1:B:437:PRO:CD	2.45	0.45
1:B:282:VAL:O	1:B:285:PRO:HD2	2.17	0.45
1:B:287:LEU:HG	1:B:288:TYR:CD1	2.52	0.45
1:B:700:LEU:HD12	1:B:701:PHE:N	2.32	0.45
1:B:1138:LEU:HD12	1:B:1139:ILE:N	2.32	0.45
1:C:461:GLU:O	1:C:464:CYS:HB2	2.16	0.45
1:C:492:LYS:HZ3	1:C:498:LEU:HB2	1.81	0.45
1:D:417:PRO:HB3	1:D:425:ARG:HH22	1.82	0.45
1:D:700:LEU:HD12	1:D:701:PHE:N	2.32	0.45
1:E:491:ILE:HG22	1:E:498:LEU:HD11	1.98	0.45
1:E:1168:TRP:HA	1:E:1170:ARG:HH11	1.82	0.45
1:F:667:TYR:CZ	1:F:669:PRO:HG3	2.52	0.45
1:A:305:PHE:HE2	1:A:317:ALA:HA	1.81	0.45
1:A:441:ARG:NH1	1:A:472:LYS:HD3	2.32	0.45
1:A:709:LEU:HA	1:A:712:LEU:HG	1.98	0.45
1:A:724:GLN:OE1	1:A:724:GLN:N	2.33	0.45
1:B:388:HIS:HA	1:B:391:ILE:HG12	1.99	0.45
1:B:491:ILE:HG22	1:B:498:LEU:HD11	1.98	0.45
1:B:667:TYR:CZ	1:B:669:PRO:HG3	2.52	0.45
1:B:689:MET:O	1:B:692:ARG:HB2	2.17	0.45
1:C:538:SER:HA	1:C:620:PRO:O	2.16	0.45
1:C:698:GLN:OE1	1:C:698:GLN:N	2.48	0.45
1:D:280:GLU:C	1:D:284:LEU:HD23	2.41	0.45
1:D:441:ARG:NH1	1:D:472:LYS:HD3	2.32	0.45
1:D:613:LEU:HA	1:D:1147:VAL:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:723:LYS:NZ	1:E:1186:ILE:HD11	2.27	0.45
1:D:1152:HIS:O	1:D:1155:SER:OG	2.35	0.45
1:E:305:PHE:HE2	1:E:317:ALA:HA	1.82	0.45
1:E:333:PHE:CD1	1:E:367:ILE:HD11	2.52	0.45
1:E:489:ASN:ND2	1:E:521:MET:HB2	2.32	0.45
1:E:621:ALA:HA	1:E:624:GLN:CB	2.47	0.45
1:F:333:PHE:HD1	1:F:367:ILE:HD11	1.82	0.45
1:F:521:MET:HA	1:F:525:ARG:NH2	2.32	0.45
1:A:282:VAL:O	1:A:285:PRO:HD2	2.17	0.45
1:A:521:MET:HA	1:A:525:ARG:NH2	2.32	0.45
1:A:740:PHE:CE2	1:A:1150:LEU:HB3	2.52	0.45
1:A:1137:LEU:HD13	1:A:1178:GLU:CB	2.46	0.45
1:B:344:LYS:HD3	1:B:344:LYS:HA	1.87	0.45
1:B:438:LEU:HD13	1:B:438:LEU:HA	1.75	0.45
1:B:441:ARG:NH1	1:B:472:LYS:HD3	2.32	0.45
1:B:485:GLU:HA	1:B:488:LEU:HD23	1.98	0.45
1:C:318:ARG:HH12	1:C:337:LYS:CE	2.30	0.45
1:C:485:GLU:HA	1:C:488:LEU:HD23	1.98	0.45
1:D:279:LYS:HB2	1:D:279:LYS:HE3	1.83	0.45
1:D:287:LEU:HG	1:D:288:TYR:CD1	2.52	0.45
1:D:559:THR:HA	1:D:562:LYS:HD2	1.99	0.45
1:D:583:GLU:CG	1:E:517:LYS:HB2	2.47	0.45
1:D:724:GLN:OE1	1:D:724:GLN:N	2.32	0.45
1:E:329:LYS:HA	1:E:330:LYS:HA	1.58	0.45
1:E:333:PHE:HD1	1:E:367:ILE:HD11	1.82	0.45
1:E:397:ALA:CA	1:E:401:GLY:HA3	2.45	0.45
1:E:541:LEU:HD23	1:E:546:LYS:HG2	1.99	0.45
1:F:442:ASP:HA	1:F:445:LYS:CB	2.47	0.45
1:F:746:GLU:HA	1:F:749:LYS:HZ3	1.81	0.45
1:A:306:HIS:C	1:A:313:LYS:HE3	2.42	0.44
1:A:388:HIS:HA	1:A:391:ILE:HG12	1.99	0.44
1:A:417:PRO:HB3	1:A:425:ARG:HH22	1.82	0.44
1:B:316:MET:O	1:B:319:ALA:HB3	2.16	0.44
1:B:428:GLY:N	1:B:431:ASP:OD1	2.47	0.44
1:B:599:ARG:O	1:C:1155:SER:HB2	2.17	0.44
1:B:604:ARG:HG3	1:B:720:PHE:CD1	2.52	0.44
1:B:740:PHE:CE2	1:B:1150:LEU:HB3	2.52	0.44
1:B:761:ARG:NE	1:B:761:ARG:HA	2.32	0.44
1:C:306:HIS:C	1:C:313:LYS:HE3	2.42	0.44
1:C:689:MET:O	1:C:692:ARG:HB2	2.17	0.44
1:C:761:ARG:HA	1:C:761:ARG:NE	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:271:LEU:HD21	1:D:437:PRO:CD	2.45	0.44
1:D:330:LYS:HD3	1:D:330:LYS:HA	1.82	0.44
1:D:396:LEU:HD11	1:D:423:ALA:HB1	1.99	0.44
1:D:474:TYR:HB2	1:D:479:LEU:HD21	1.99	0.44
1:D:740:PHE:CE2	1:D:1150:LEU:HB3	2.52	0.44
1:D:1137:LEU:HD13	1:D:1178:GLU:CB	2.46	0.44
1:E:276:ASN:HA	1:E:279:LYS:CG	2.46	0.44
1:E:306:HIS:C	1:E:313:LYS:HE3	2.42	0.44
1:E:485:GLU:HA	1:E:488:LEU:HD23	1.98	0.44
1:E:559:THR:HA	1:E:562:LYS:HD2	1.99	0.44
1:E:740:PHE:CE2	1:E:1150:LEU:HB3	2.52	0.44
1:E:1137:LEU:HD13	1:E:1178:GLU:CB	2.46	0.44
1:F:343:SER:CB	1:F:348:GLU:HB3	2.48	0.44
1:F:396:LEU:HD11	1:F:423:ALA:HB1	1.99	0.44
1:F:485:GLU:HA	1:F:488:LEU:HD23	1.98	0.44
1:F:541:LEU:HG	1:F:545:LEU:HB2	1.98	0.44
1:F:604:ARG:HG3	1:F:720:PHE:CD1	2.52	0.44
1:A:559:THR:HA	1:A:562:LYS:HD2	1.99	0.44
1:A:720:PHE:HB3	1:A:725:SER:OG	2.18	0.44
1:A:1128:GLU:OE2	1:A:1130:ARG:NE	2.35	0.44
1:A:1138:LEU:HD12	1:A:1139:ILE:N	2.32	0.44
1:B:329:LYS:CE	1:C:503:LYS:HE2	2.47	0.44
1:C:278:LEU:HD13	1:C:320:LEU:HD13	1.99	0.44
1:C:343:SER:CB	1:C:348:GLU:HB3	2.48	0.44
1:C:417:PRO:HB3	1:C:425:ARG:HH22	1.82	0.44
1:C:442:ASP:HA	1:C:445:LYS:CB	2.47	0.44
1:C:474:TYR:HB2	1:C:479:LEU:HD21	1.99	0.44
1:C:604:ARG:HH21	1:C:720:PHE:C	2.25	0.44
1:D:343:SER:CB	1:D:348:GLU:HB3	2.48	0.44
1:D:467:LEU:HA	1:D:470:LYS:HZ1	1.82	0.44
1:D:489:ASN:ND2	1:D:521:MET:HB2	2.32	0.44
1:D:605:PHE:CZ	1:D:727:TYR:HB2	2.46	0.44
1:D:621:ALA:HA	1:D:624:GLN:CB	2.47	0.44
1:D:761:ARG:NE	1:D:761:ARG:HA	2.32	0.44
1:E:474:TYR:HB2	1:E:479:LEU:HD21	1.99	0.44
1:E:521:MET:HA	1:E:525:ARG:NH2	2.32	0.44
1:E:700:LEU:HD12	1:E:701:PHE:N	2.32	0.44
1:F:417:PRO:HB3	1:F:425:ARG:HH22	1.82	0.44
1:F:444:ARG:HG3	1:F:468:ALA:HB1	1.99	0.44
1:F:474:TYR:HB2	1:F:479:LEU:HD21	1.99	0.44
1:F:491:ILE:HD13	1:F:512:ILE:CD1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:311:THR:HG22	1:A:438:LEU:HD13	1.99	0.44
1:A:621:ALA:HA	1:A:624:GLN:CB	2.47	0.44
1:B:295:PHE:CE2	1:C:457:PRO:HG2	2.51	0.44
1:B:334:TYR:O	1:B:369:PHE:N	2.45	0.44
1:B:442:ASP:O	1:B:445:LYS:HB3	2.17	0.44
1:B:521:MET:HA	1:B:525:ARG:NH2	2.32	0.44
1:B:722:SER:O	1:B:726:VAL:HG12	2.18	0.44
1:C:336:ARG:HE	1:C:337:LYS:H	1.65	0.44
1:C:388:HIS:HA	1:C:391:ILE:HG12	1.99	0.44
1:C:444:ARG:HG3	1:C:468:ALA:HB1	1.99	0.44
1:C:630:HIS:HB3	1:C:664:SER:CB	2.47	0.44
1:C:1178:GLU:HG2	1:C:1179:ARG:N	2.32	0.44
1:D:305:PHE:HE2	1:D:317:ALA:HA	1.82	0.44
1:D:318:ARG:HH12	1:D:337:LYS:CE	2.31	0.44
1:D:538:SER:O	1:D:539:LYS:HG3	2.17	0.44
1:E:287:LEU:HG	1:E:288:TYR:CD1	2.52	0.44
1:E:358:GLU:O	1:E:361:LYS:HB2	2.18	0.44
1:E:610:ARG:HD2	1:E:708:PRO:CD	2.45	0.44
1:E:1138:LEU:HD12	1:E:1139:ILE:N	2.32	0.44
1:F:306:HIS:C	1:F:313:LYS:HE3	2.42	0.44
1:F:577:MET:HE3	1:F:578:TYR:CZ	2.53	0.44
1:F:596:GLU:H	1:F:599:ARG:CD	2.27	0.44
1:F:700:LEU:HD12	1:F:701:PHE:N	2.32	0.44
1:B:295:PHE:HE2	1:C:457:PRO:CG	2.31	0.44
1:B:301:ARG:NE	1:B:405:ARG:HB3	2.31	0.44
1:B:343:SER:CB	1:B:348:GLU:HB3	2.48	0.44
1:B:577:MET:HE3	1:B:578:TYR:CZ	2.52	0.44
1:C:333:PHE:CD1	1:C:367:ILE:HD11	2.52	0.44
1:C:541:LEU:HG	1:C:545:LEU:HB2	1.98	0.44
1:C:604:ARG:HG3	1:C:720:PHE:CD1	2.53	0.44
1:C:768:GLU:OE2	1:C:770:PRO:HG3	2.17	0.44
1:C:1168:TRP:HA	1:C:1170:ARG:HH11	1.82	0.44
1:D:358:GLU:O	1:D:361:LYS:HB2	2.18	0.44
1:D:452:THR:HA	1:D:455:TRP:CE3	2.53	0.44
1:D:541:LEU:HD23	1:D:546:LYS:HG2	1.99	0.44
1:E:344:LYS:HD3	1:E:344:LYS:HA	1.87	0.44
1:E:350:GLU:O	1:E:354:ARG:HG2	2.18	0.44
1:E:438:LEU:CD1	1:E:475:GLY:HA2	2.48	0.44
1:E:441:ARG:NH1	1:E:472:LYS:HD3	2.32	0.44
1:E:442:ASP:O	1:E:445:LYS:HB3	2.17	0.44
1:E:538:SER:O	1:E:539:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:278:LEU:HD13	1:F:320:LEU:HD13	1.99	0.44
1:F:301:ARG:NE	1:F:405:ARG:HB3	2.31	0.44
1:A:271:LEU:HD21	1:A:437:PRO:CD	2.45	0.44
1:A:318:ARG:HH12	1:A:337:LYS:CE	2.31	0.44
1:A:333:PHE:HD1	1:A:367:ILE:HD11	1.82	0.44
1:A:343:SER:CB	1:A:348:GLU:HB3	2.48	0.44
1:A:397:ALA:CA	1:A:401:GLY:HA3	2.45	0.44
1:A:463:LEU:HD11	1:A:467:LEU:HD11	1.99	0.44
1:A:467:LEU:HA	1:A:470:LYS:HZ3	1.82	0.44
1:A:474:TYR:HB2	1:A:479:LEU:HD21	1.99	0.44
1:A:489:ASN:ND2	1:A:521:MET:HB2	2.32	0.44
1:A:669:PRO:HA	1:A:704:LEU:HG	1.99	0.44
1:A:689:MET:O	1:A:692:ARG:HB2	2.17	0.44
1:A:722:SER:O	1:A:726:VAL:HG12	2.18	0.44
1:A:1157:LEU:HD12	1:A:1158:TYR:CD1	2.53	0.44
1:A:1168:TRP:HA	1:A:1170:ARG:HH11	1.82	0.44
1:B:489:ASN:ND2	1:B:521:MET:HB2	2.32	0.44
1:B:538:SER:O	1:B:539:LYS:HG3	2.17	0.44
1:B:1137:LEU:HD13	1:B:1178:GLU:CB	2.46	0.44
1:B:1178:GLU:HG2	1:B:1179:ARG:N	2.32	0.44
1:C:596:GLU:H	1:C:599:ARG:CD	2.27	0.44
1:C:621:ALA:HA	1:C:624:GLN:CB	2.47	0.44
1:C:722:SER:O	1:C:726:VAL:HG12	2.18	0.44
1:D:301:ARG:NE	1:D:405:ARG:HB3	2.31	0.44
1:D:466:MET:HA	1:D:469:GLU:CD	2.43	0.44
1:D:1168:TRP:HA	1:D:1170:ARG:HH11	1.82	0.44
1:E:388:HIS:HA	1:E:391:ILE:HG12	1.99	0.44
1:E:473:GLY:O	1:E:529:SER:N	2.22	0.44
1:E:492:LYS:NZ	1:E:498:LEU:HD12	2.33	0.44
1:E:577:MET:HE3	1:E:578:TYR:CZ	2.53	0.44
1:F:466:MET:HA	1:F:469:GLU:CD	2.43	0.44
1:F:689:MET:O	1:F:692:ARG:HB2	2.17	0.44
1:A:358:GLU:O	1:A:361:LYS:HB2	2.18	0.44
1:A:452:THR:HA	1:A:455:TRP:CE3	2.53	0.44
1:A:538:SER:O	1:A:539:LYS:HG3	2.18	0.44
1:A:606:LEU:HD13	1:A:703:ALA:CB	2.48	0.44
1:A:630:HIS:HB3	1:A:664:SER:CB	2.47	0.44
1:B:358:GLU:O	1:B:361:LYS:HB2	2.18	0.44
1:B:438:LEU:CD1	1:B:475:GLY:HA2	2.48	0.44
1:B:474:TYR:HB2	1:B:479:LEU:HD21	1.99	0.44
1:B:621:ALA:HA	1:B:624:GLN:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:358:GLU:O	1:C:361:LYS:HB2	2.18	0.44
1:C:491:ILE:HG22	1:C:498:LEU:HD11	1.98	0.44
1:D:442:ASP:HA	1:D:445:LYS:CB	2.47	0.44
1:D:604:ARG:HG3	1:D:720:PHE:CD1	2.52	0.44
1:E:334:TYR:O	1:E:369:PHE:N	2.44	0.44
1:E:417:PRO:HB3	1:E:425:ARG:HH22	1.82	0.44
1:E:768:GLU:OE2	1:E:770:PRO:HG3	2.18	0.44
1:F:318:ARG:HH12	1:F:337:LYS:CE	2.30	0.44
1:F:336:ARG:HE	1:F:337:LYS:H	1.65	0.44
1:F:344:LYS:HD3	1:F:344:LYS:HA	1.87	0.44
1:F:358:GLU:O	1:F:361:LYS:HB2	2.18	0.44
1:F:463:LEU:HD11	1:F:467:LEU:HD11	1.99	0.44
1:F:491:ILE:HG22	1:F:498:LEU:HD11	1.98	0.44
1:F:559:THR:HA	1:F:562:LYS:HD2	1.99	0.44
1:F:621:ALA:HA	1:F:624:GLN:CB	2.47	0.44
1:F:720:PHE:HB3	1:F:725:SER:OG	2.18	0.44
1:F:761:ARG:HA	1:F:761:ARG:NE	2.32	0.44
1:F:1137:LEU:HD13	1:F:1178:GLU:CB	2.46	0.44
1:A:336:ARG:HE	1:A:337:LYS:H	1.65	0.44
1:A:438:LEU:CD1	1:A:475:GLY:HA2	2.48	0.44
1:A:466:MET:HA	1:A:469:GLU:CD	2.43	0.44
1:A:482:LEU:HA	1:A:526:MET:HE3	2.00	0.44
1:A:497:GLN:CG	1:A:766:LEU:HD23	2.41	0.44
1:A:573:LEU:HD11	1:B:499:TYR:CD2	2.53	0.44
1:A:579:ASP:N	1:B:764:ARG:HG2	2.17	0.44
1:A:1178:GLU:HG2	1:A:1179:ARG:N	2.32	0.44
1:B:276:ASN:HA	1:B:279:LYS:CG	2.46	0.44
1:B:311:THR:HG22	1:B:438:LEU:HD13	1.99	0.44
1:B:328:ASN:ND2	1:B:331:VAL:HB	2.33	0.44
1:B:442:ASP:HA	1:B:445:LYS:CB	2.47	0.44
1:B:606:LEU:HD13	1:B:703:ALA:CB	2.48	0.44
1:B:768:GLU:OE2	1:B:770:PRO:HG3	2.17	0.44
1:B:1168:TRP:HA	1:B:1170:ARG:HH11	1.82	0.44
1:C:301:ARG:NE	1:C:405:ARG:HB3	2.31	0.44
1:C:396:LEU:HD11	1:C:423:ALA:HB1	1.99	0.44
1:C:489:ASN:ND2	1:C:521:MET:HB2	2.32	0.44
1:C:585:ASP:HB3	1:C:587:GLU:OE1	2.18	0.44
1:C:606:LEU:HD13	1:C:703:ALA:CB	2.48	0.44
1:D:579:ASP:O	1:E:762:LYS:HB2	2.18	0.44
1:D:585:ASP:HB3	1:D:587:GLU:OE1	2.18	0.44
1:D:630:HIS:HB3	1:D:664:SER:CB	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1128:GLU:OE2	1:D:1130:ARG:NE	2.35	0.44
1:E:343:SER:CB	1:E:348:GLU:HB3	2.48	0.44
1:E:428:GLY:N	1:E:431:ASP:OD1	2.47	0.44
1:E:442:ASP:HA	1:E:445:LYS:CB	2.47	0.44
1:E:466:MET:HA	1:E:469:GLU:CD	2.43	0.44
1:E:604:ARG:HG3	1:E:720:PHE:CD1	2.52	0.44
1:E:722:SER:O	1:E:726:VAL:HG12	2.18	0.44
1:F:388:HIS:HA	1:F:391:ILE:HG12	1.99	0.44
1:F:489:ASN:ND2	1:F:521:MET:HB2	2.32	0.44
1:F:541:LEU:HD23	1:F:546:LYS:HG2	1.99	0.44
1:F:630:HIS:HB3	1:F:664:SER:CB	2.48	0.44
1:F:722:SER:O	1:F:726:VAL:HG12	2.18	0.44
1:F:768:GLU:OE2	1:F:770:PRO:HG3	2.18	0.44
1:F:1178:GLU:HG2	1:F:1179:ARG:N	2.32	0.44
1:A:350:GLU:O	1:A:354:ARG:HG2	2.18	0.44
1:A:442:ASP:HA	1:A:445:LYS:CB	2.47	0.44
1:A:576:VAL:HG21	1:B:492:LYS:C	2.42	0.44
1:B:417:PRO:HB3	1:B:425:ARG:HH22	1.82	0.44
1:B:492:LYS:NZ	1:B:498:LEU:HD12	2.33	0.44
1:C:271:LEU:HD21	1:C:437:PRO:CD	2.45	0.44
1:C:333:PHE:HD1	1:C:367:ILE:HD11	1.82	0.44
1:C:474:TYR:CB	1:C:478:ASP:HB2	2.39	0.44
1:D:306:HIS:C	1:D:313:LYS:HE3	2.42	0.44
1:D:311:THR:HG22	1:D:438:LEU:HD13	1.99	0.44
1:D:746:GLU:HA	1:D:749:LYS:HZ3	1.83	0.44
1:D:1138:LEU:HD12	1:D:1139:ILE:N	2.32	0.44
1:E:311:THR:HG22	1:E:438:LEU:HD13	1.99	0.44
1:E:539:LYS:NZ	1:E:620:PRO:HB3	2.33	0.44
1:E:1157:LEU:HD12	1:E:1158:TYR:CD1	2.53	0.44
1:F:311:THR:HG22	1:F:438:LEU:HD13	1.99	0.44
1:F:441:ARG:NH1	1:F:472:LYS:HD3	2.32	0.44
1:F:606:LEU:HD13	1:F:703:ALA:CB	2.48	0.44
1:F:610:ARG:HD2	1:F:708:PRO:CD	2.45	0.44
1:A:256:PRO:HB3	1:F:292:PHE:CD2	2.53	0.44
1:A:467:LEU:HA	1:A:470:LYS:HZ1	1.83	0.44
1:A:539:LYS:NZ	1:A:620:PRO:HB3	2.33	0.44
1:A:589:GLN:CD	1:B:517:LYS:HG3	2.42	0.44
1:A:761:ARG:NE	1:A:761:ARG:HA	2.32	0.44
1:A:1152:HIS:O	1:A:1155:SER:OG	2.35	0.44
1:B:295:PHE:CZ	1:C:512:ILE:HG22	2.53	0.44
1:B:463:LEU:HD11	1:B:467:LEU:HD11	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:544:GLU:H	1:B:544:GLU:CD	2.22	0.44
1:B:1157:LEU:HD12	1:B:1158:TYR:CD1	2.53	0.44
1:C:311:THR:HG22	1:C:438:LEU:HD13	1.99	0.44
1:C:463:LEU:HD11	1:C:467:LEU:HD11	1.99	0.44
1:C:539:LYS:NZ	1:C:620:PRO:HB3	2.33	0.44
1:C:594:THR:HG23	1:C:598:LEU:HD22	2.00	0.44
1:C:720:PHE:HB3	1:C:725:SER:OG	2.17	0.44
1:D:336:ARG:HE	1:D:337:LYS:H	1.65	0.44
1:D:442:ASP:O	1:D:445:LYS:HB3	2.16	0.44
1:D:577:MET:HE3	1:D:578:TYR:CZ	2.53	0.44
1:E:276:ASN:CA	1:E:279:LYS:HG2	2.47	0.44
1:E:344:LYS:O	1:E:344:LYS:HD2	2.18	0.44
1:E:463:LEU:HD11	1:E:467:LEU:HD11	1.99	0.44
1:E:689:MET:O	1:E:692:ARG:HB2	2.17	0.44
1:F:276:ASN:HA	1:F:279:LYS:CG	2.46	0.44
1:F:438:LEU:CD1	1:F:475:GLY:HA2	2.48	0.44
1:F:482:LEU:HA	1:F:526:MET:HE3	2.00	0.44
1:F:698:GLN:OE1	1:F:698:GLN:N	2.48	0.44
1:A:520:VAL:HG11	1:F:589:GLN:HB3	2.00	0.43
1:A:577:MET:HE3	1:A:578:TYR:CZ	2.52	0.43
1:A:667:TYR:CE2	1:A:669:PRO:HD3	2.53	0.43
1:A:667:TYR:HD1	1:A:702:LEU:HD22	1.83	0.43
1:B:441:ARG:HH12	1:B:472:LYS:HD3	1.83	0.43
1:B:539:LYS:NZ	1:B:620:PRO:HB3	2.33	0.43
1:B:746:GLU:HA	1:B:749:LYS:HZ3	1.81	0.43
1:C:328:ASN:ND2	1:C:331:VAL:HB	2.33	0.43
1:C:344:LYS:HD2	1:C:344:LYS:O	2.18	0.43
1:C:350:GLU:O	1:C:354:ARG:HG2	2.18	0.43
1:C:421:ASP:OD2	1:C:423:ALA:HB3	2.18	0.43
1:C:441:ARG:HH12	1:C:472:LYS:HD3	1.83	0.43
1:C:559:THR:HA	1:C:562:LYS:HD2	1.99	0.43
1:C:622:ILE:HD12	1:C:702:LEU:HD11	2.00	0.43
1:C:1152:HIS:O	1:C:1155:SER:OG	2.34	0.43
1:D:296:ASN:HB2	1:E:257:LEU:CD2	2.48	0.43
1:D:485:GLU:HA	1:D:488:LEU:HD23	1.98	0.43
1:D:539:LYS:NZ	1:D:620:PRO:HB3	2.33	0.43
1:D:667:TYR:CE2	1:D:669:PRO:HD3	2.54	0.43
1:D:669:PRO:HA	1:D:704:LEU:HG	1.99	0.43
1:D:1178:GLU:HG2	1:D:1179:ARG:N	2.32	0.43
1:E:282:VAL:O	1:E:285:PRO:HD2	2.17	0.43
1:E:441:ARG:HH12	1:E:472:LYS:HD3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:585:ASP:HB3	1:E:587:GLU:OE1	2.18	0.43
1:E:720:PHE:HB3	1:E:725:SER:OG	2.17	0.43
1:E:761:ARG:NE	1:E:761:ARG:HA	2.32	0.43
1:F:328:ASN:ND2	1:F:331:VAL:HB	2.33	0.43
1:F:350:GLU:O	1:F:354:ARG:HG2	2.18	0.43
1:F:604:ARG:HH21	1:F:720:PHE:C	2.25	0.43
1:A:337:LYS:NZ	1:A:369:PHE:HB2	2.34	0.43
1:A:527:ILE:HG13	1:A:532:ARG:HH11	1.84	0.43
1:A:583:GLU:CG	1:B:517:LYS:HB2	2.49	0.43
1:A:698:GLN:OE1	1:A:698:GLN:N	2.48	0.43
1:A:700:LEU:HD12	1:A:701:PHE:N	2.32	0.43
1:B:518:ASP:HA	1:B:521:MET:HG3	2.00	0.43
1:B:735:ASP:HA	1:B:738:ILE:HG12	1.99	0.43
1:C:438:LEU:HD13	1:C:438:LEU:HA	1.75	0.43
1:C:441:ARG:NH1	1:C:472:LYS:HD3	2.32	0.43
1:C:557:GLU:HA	1:C:560:LEU:HG	2.00	0.43
1:C:638:THR:HA	1:C:641:GLN:CB	2.39	0.43
1:C:680:LEU:HA	1:C:680:LEU:HD13	1.75	0.43
1:C:723:LYS:HE3	1:D:1183:GLU:HB2	2.00	0.43
1:C:1157:LEU:HD12	1:C:1158:TYR:CD1	2.53	0.43
1:D:282:VAL:O	1:D:285:PRO:HD2	2.17	0.43
1:D:689:MET:O	1:D:692:ARG:HB2	2.17	0.43
1:E:395:LEU:HD11	1:E:424:LEU:HD21	2.00	0.43
1:E:518:ASP:HA	1:E:521:MET:HG3	2.00	0.43
1:F:344:LYS:HD2	1:F:344:LYS:O	2.18	0.43
1:F:539:LYS:NZ	1:F:620:PRO:HB3	2.33	0.43
1:F:667:TYR:CE2	1:F:669:PRO:HD3	2.53	0.43
1:F:1157:LEU:HD12	1:F:1158:TYR:CD1	2.53	0.43
1:A:301:ARG:NE	1:A:405:ARG:HB3	2.31	0.43
1:A:517:LYS:HB2	1:F:583:GLU:CD	2.43	0.43
1:B:395:LEU:HD11	1:B:424:LEU:HD21	2.00	0.43
1:B:544:GLU:OE1	1:B:544:GLU:N	2.36	0.43
1:B:720:PHE:HB3	1:B:725:SER:OG	2.18	0.43
1:C:371:ASP:HA	1:C:413:ALA:CB	2.37	0.43
1:C:397:ALA:HA	1:C:401:GLY:CA	2.47	0.43
1:C:538:SER:O	1:C:539:LYS:HG3	2.17	0.43
1:C:735:ASP:HA	1:C:738:ILE:HG12	1.99	0.43
1:D:350:GLU:O	1:D:354:ARG:HG2	2.18	0.43
1:D:482:LEU:HA	1:D:526:MET:HE3	2.00	0.43
1:D:527:ILE:HG13	1:D:532:ARG:HH11	1.84	0.43
1:D:640:LEU:HD13	1:D:640:LEU:HA	1.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:452:THR:HA	1:E:455:TRP:CE3	2.53	0.43
1:F:282:VAL:O	1:F:285:PRO:HD2	2.17	0.43
1:F:397:ALA:HA	1:F:401:GLY:CA	2.47	0.43
1:F:441:ARG:HH12	1:F:472:LYS:HD3	1.83	0.43
1:F:444:ARG:CG	1:F:468:ALA:HB1	2.49	0.43
1:F:594:THR:HG23	1:F:598:LEU:HD22	2.00	0.43
1:F:669:PRO:HA	1:F:704:LEU:HG	1.99	0.43
1:A:395:LEU:HD11	1:A:424:LEU:HD21	2.00	0.43
1:A:441:ARG:HH12	1:A:472:LYS:HD3	1.83	0.43
1:A:541:LEU:HD23	1:A:546:LYS:HG2	1.99	0.43
1:A:604:ARG:HG3	1:A:720:PHE:CD1	2.52	0.43
1:B:344:LYS:O	1:B:344:LYS:HD2	2.18	0.43
1:B:427:PRO:HG2	1:C:478:ASP:OD1	2.18	0.43
1:C:343:SER:OG	1:C:345:TRP:N	2.52	0.43
1:C:395:LEU:HD11	1:C:424:LEU:HD21	2.00	0.43
1:C:667:TYR:CE2	1:C:669:PRO:HD3	2.54	0.43
1:D:333:PHE:HD1	1:D:367:ILE:HD11	1.82	0.43
1:D:337:LYS:NZ	1:D:369:PHE:HB2	2.33	0.43
1:D:343:SER:OG	1:D:345:TRP:N	2.52	0.43
1:D:438:LEU:CD1	1:D:475:GLY:HA2	2.48	0.43
1:D:441:ARG:HH12	1:D:472:LYS:HD3	1.83	0.43
1:D:463:LEU:HD11	1:D:467:LEU:HD11	1.99	0.43
1:D:492:LYS:NZ	1:D:498:LEU:HD12	2.33	0.43
1:D:735:ASP:HA	1:D:738:ILE:HG12	1.99	0.43
1:E:285:PRO:HA	1:E:292:PHE:CE1	2.54	0.43
1:E:444:ARG:HG3	1:E:468:ALA:HB1	1.99	0.43
1:F:421:ASP:OD2	1:F:423:ALA:HB3	2.18	0.43
1:F:557:GLU:HA	1:F:560:LEU:HG	2.00	0.43
1:A:586:PHE:CG	1:B:466:MET:HE1	2.53	0.43
1:B:337:LYS:NZ	1:B:369:PHE:HB2	2.34	0.43
1:B:444:ARG:HG3	1:B:468:ALA:HB1	1.99	0.43
1:B:452:THR:HA	1:B:455:TRP:CE3	2.53	0.43
1:B:559:THR:HA	1:B:562:LYS:HD2	1.99	0.43
1:B:656:LEU:CA	1:B:659:ARG:HB2	2.48	0.43
1:B:667:TYR:CE2	1:B:669:PRO:HD3	2.54	0.43
1:C:282:VAL:O	1:C:285:PRO:HD2	2.17	0.43
1:C:285:PRO:HA	1:C:292:PHE:CE1	2.54	0.43
1:C:378:PRO:HG2	1:C:388:HIS:ND1	2.34	0.43
1:C:438:LEU:CD1	1:C:475:GLY:HA2	2.48	0.43
1:C:452:THR:HA	1:C:455:TRP:CE3	2.53	0.43
1:C:466:MET:HA	1:C:469:GLU:CD	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:328:ASN:ND2	1:D:331:VAL:HB	2.33	0.43
1:D:344:LYS:HD2	1:D:344:LYS:O	2.18	0.43
1:D:395:LEU:HD11	1:D:424:LEU:HD21	2.00	0.43
1:D:442:ASP:HA	1:D:445:LYS:HB3	2.01	0.43
1:D:444:ARG:HG3	1:D:468:ALA:HB1	1.99	0.43
1:E:335:MET:HB3	1:E:337:LYS:HZ2	1.82	0.43
1:E:622:ILE:HD12	1:E:702:LEU:HD11	2.00	0.43
1:E:630:HIS:HB3	1:E:664:SER:CB	2.47	0.43
1:E:640:LEU:HD13	1:E:640:LEU:HA	1.70	0.43
1:E:667:TYR:HD1	1:E:702:LEU:HD22	1.83	0.43
1:F:285:PRO:HA	1:F:292:PHE:CE1	2.54	0.43
1:F:395:LEU:HD11	1:F:424:LEU:HD21	2.00	0.43
1:F:452:THR:HA	1:F:455:TRP:CE3	2.53	0.43
1:F:585:ASP:HB3	1:F:587:GLU:OE1	2.18	0.43
1:A:285:PRO:HA	1:A:292:PHE:CE1	2.54	0.43
1:A:344:LYS:HD2	1:A:344:LYS:O	2.18	0.43
1:A:380:ARG:HH12	1:B:339:ALA:CB	2.30	0.43
1:A:395:LEU:CD1	1:A:424:LEU:HD11	2.39	0.43
1:A:442:ASP:HA	1:A:445:LYS:HB3	2.01	0.43
1:A:768:GLU:OE2	1:A:770:PRO:HG3	2.17	0.43
1:B:442:ASP:HA	1:B:445:LYS:HB3	2.01	0.43
1:B:622:ILE:HD12	1:B:702:LEU:HD11	2.00	0.43
1:B:1128:GLU:OE2	1:B:1130:ARG:NE	2.35	0.43
1:C:334:TYR:O	1:C:369:PHE:N	2.44	0.43
1:C:492:LYS:NZ	1:C:498:LEU:HD12	2.33	0.43
1:C:577:MET:HE3	1:C:578:TYR:CZ	2.53	0.43
1:D:606:LEU:HD13	1:D:703:ALA:CB	2.48	0.43
1:D:720:PHE:HB3	1:D:725:SER:OG	2.18	0.43
1:D:1153:LEU:HD21	1:D:1184:PHE:CD2	2.54	0.43
1:E:336:ARG:HE	1:E:337:LYS:H	1.65	0.43
1:E:343:SER:OG	1:E:345:TRP:N	2.52	0.43
1:E:444:ARG:CG	1:E:468:ALA:HB1	2.49	0.43
1:E:541:LEU:CG	1:E:545:LEU:HB2	2.49	0.43
1:E:594:THR:HG23	1:E:598:LEU:HD22	2.00	0.43
1:E:667:TYR:CE2	1:E:669:PRO:HD3	2.54	0.43
1:E:669:PRO:HA	1:E:704:LEU:HG	1.99	0.43
1:F:492:LYS:NZ	1:F:498:LEU:HD12	2.33	0.43
1:F:735:ASP:HA	1:F:738:ILE:HG12	1.99	0.43
1:F:1168:TRP:HA	1:F:1170:ARG:HH11	1.82	0.43
1:A:267:SER:CB	1:A:315:LEU:HD13	2.49	0.43
1:A:328:ASN:ND2	1:A:331:VAL:HB	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:492:LYS:NZ	1:A:498:LEU:HD12	2.33	0.43
1:A:585:ASP:HB3	1:A:587:GLU:OE1	2.18	0.43
1:A:594:THR:HG23	1:A:598:LEU:HD22	2.00	0.43
1:B:276:ASN:CA	1:B:279:LYS:HG2	2.47	0.43
1:B:585:ASP:HB3	1:B:587:GLU:OE1	2.18	0.43
1:B:669:PRO:HA	1:B:704:LEU:HG	1.99	0.43
1:C:444:ARG:CG	1:C:468:ALA:HB1	2.49	0.43
1:C:605:PHE:CZ	1:C:727:TYR:HB2	2.46	0.43
1:C:669:PRO:HA	1:C:704:LEU:HG	1.99	0.43
1:D:622:ILE:HD12	1:D:702:LEU:HD11	2.00	0.43
1:D:667:TYR:HD1	1:D:702:LEU:HD22	1.83	0.43
1:D:768:GLU:OE2	1:D:770:PRO:HG3	2.18	0.43
1:D:1157:LEU:HD12	1:D:1158:TYR:CD1	2.53	0.43
1:E:378:PRO:HG2	1:E:388:HIS:ND1	2.34	0.43
1:E:421:ASP:OD2	1:E:423:ALA:HB3	2.18	0.43
1:E:457:PRO:HA	1:E:458:PRO:HD3	1.94	0.43
1:E:606:LEU:HD13	1:E:703:ALA:CB	2.48	0.43
1:E:759:ILE:HB	1:E:761:ARG:NH2	2.27	0.43
1:F:343:SER:OG	1:F:345:TRP:N	2.52	0.43
1:A:343:SER:OG	1:A:345:TRP:N	2.52	0.43
1:A:421:ASP:OD2	1:A:423:ALA:HB3	2.18	0.43
1:A:444:ARG:HG3	1:A:468:ALA:HB1	1.99	0.43
1:A:638:THR:HA	1:A:641:GLN:CB	2.39	0.43
1:B:301:ARG:HH22	1:C:258:GLY:N	2.03	0.43
1:B:378:PRO:HG2	1:B:388:HIS:ND1	2.34	0.43
1:B:472:LYS:HA	1:B:472:LYS:HD2	1.79	0.43
1:B:527:ILE:HG13	1:B:532:ARG:HH11	1.84	0.43
1:B:541:LEU:CG	1:B:545:LEU:HB2	2.49	0.43
1:B:630:HIS:HB3	1:B:664:SER:CB	2.48	0.43
1:C:327:GLU:OE1	1:C:327:GLU:N	2.48	0.43
1:C:1153:LEU:HD21	1:C:1184:PHE:CD2	2.54	0.43
1:E:680:LEU:HA	1:E:680:LEU:HD13	1.75	0.43
1:F:634:PHE:CE2	1:F:654:LEU:HD23	2.54	0.43
1:F:1153:LEU:HD21	1:F:1184:PHE:CD2	2.54	0.43
1:A:473:GLY:O	1:A:529:SER:N	2.22	0.43
1:A:540:PRO:CA	1:A:624:GLN:HG2	2.49	0.43
1:A:541:LEU:CG	1:A:545:LEU:HB2	2.48	0.43
1:B:540:PRO:CA	1:B:624:GLN:HG2	2.49	0.43
1:B:557:GLU:HA	1:B:560:LEU:HG	2.00	0.43
1:C:314:THR:O	1:C:317:ALA:HB3	2.19	0.43
1:C:540:PRO:CA	1:C:624:GLN:HG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:634:PHE:CE2	1:C:654:LEU:HD23	2.54	0.43
1:D:541:LEU:CG	1:D:545:LEU:HB2	2.49	0.43
1:D:583:GLU:HG2	1:E:517:LYS:CE	2.47	0.43
1:D:608:CYS:HG	1:D:728:SER:HA	1.84	0.43
1:D:722:SER:O	1:D:726:VAL:HG12	2.18	0.43
1:E:442:ASP:HA	1:E:445:LYS:HB3	2.01	0.43
1:E:551:GLU:OE1	1:E:551:GLU:N	2.35	0.43
1:F:453:ARG:HA	1:F:453:ARG:HD3	1.92	0.43
1:F:605:PHE:CZ	1:F:727:TYR:HB2	2.46	0.43
1:F:640:LEU:HD13	1:F:640:LEU:HA	1.70	0.43
1:A:314:THR:O	1:A:317:ALA:HB3	2.19	0.43
1:A:557:GLU:HA	1:A:560:LEU:HG	2.00	0.43
1:A:596:GLU:N	1:A:599:ARG:HD3	2.31	0.43
1:A:1153:LEU:HD21	1:A:1184:PHE:CD2	2.54	0.43
1:B:350:GLU:O	1:B:354:ARG:HG2	2.18	0.43
1:B:421:ASP:OD2	1:B:423:ALA:HB3	2.18	0.43
1:B:473:GLY:O	1:B:529:SER:N	2.22	0.43
1:B:594:THR:HG23	1:B:598:LEU:HD22	2.00	0.43
1:C:485:GLU:HA	1:C:488:LEU:HD21	2.01	0.43
1:C:518:ASP:HA	1:C:521:MET:HG3	2.00	0.43
1:C:527:ILE:HG13	1:C:532:ARG:HH11	1.84	0.43
1:D:421:ASP:OD2	1:D:423:ALA:HB3	2.18	0.43
1:D:540:PRO:CA	1:D:624:GLN:HG2	2.49	0.43
1:D:594:THR:HG23	1:D:598:LEU:HD22	2.00	0.43
1:E:328:ASN:ND2	1:E:331:VAL:HB	2.33	0.43
1:E:438:LEU:HD13	1:E:438:LEU:HA	1.75	0.43
1:F:267:SER:CB	1:F:315:LEU:HD13	2.49	0.43
1:F:378:PRO:HG2	1:F:388:HIS:ND1	2.34	0.43
1:F:492:LYS:HZ3	1:F:498:LEU:HB2	1.83	0.43
1:F:527:ILE:HG13	1:F:532:ARG:HH11	1.84	0.43
1:F:1152:HIS:O	1:F:1155:SER:OG	2.35	0.43
1:A:378:PRO:HG2	1:A:388:HIS:ND1	2.34	0.42
1:A:604:ARG:NH2	1:A:720:PHE:HA	2.34	0.42
1:A:735:ASP:HA	1:A:738:ILE:HG12	1.99	0.42
1:B:264:SER:HA	1:B:322:ALA:HB3	2.00	0.42
1:B:336:ARG:HE	1:B:337:LYS:H	1.65	0.42
1:B:444:ARG:CG	1:B:468:ALA:HB1	2.49	0.42
1:B:1152:HIS:O	1:B:1155:SER:OG	2.35	0.42
1:C:279:LYS:HB2	1:C:279:LYS:HE3	1.83	0.42
1:C:337:LYS:NZ	1:C:369:PHE:HB2	2.34	0.42
1:C:578:TYR:HA	1:D:762:LYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:596:GLU:N	1:C:599:ARG:HD3	2.31	0.42
1:D:285:PRO:HA	1:D:292:PHE:CE1	2.54	0.42
1:D:444:ARG:CG	1:D:468:ALA:HB1	2.49	0.42
1:D:604:ARG:NH2	1:D:720:PHE:HA	2.34	0.42
1:E:634:PHE:CE2	1:E:654:LEU:HD23	2.54	0.42
1:E:735:ASP:HA	1:E:738:ILE:HG12	1.99	0.42
1:F:337:LYS:NZ	1:F:369:PHE:HB2	2.34	0.42
1:F:485:GLU:HA	1:F:488:LEU:HD21	2.01	0.42
1:F:538:SER:O	1:F:539:LYS:HG3	2.17	0.42
1:F:541:LEU:CG	1:F:545:LEU:HB2	2.49	0.42
1:A:504:ARG:O	1:A:773:PRO:HG2	2.19	0.42
1:A:622:ILE:HD12	1:A:702:LEU:HD11	2.00	0.42
1:B:285:PRO:HA	1:B:292:PHE:CE1	2.54	0.42
1:B:466:MET:HA	1:B:469:GLU:CD	2.43	0.42
1:B:618:LEU:H	1:B:618:LEU:CD2	2.32	0.42
1:C:264:SER:HA	1:C:322:ALA:HB3	2.00	0.42
1:C:604:ARG:NH2	1:C:720:PHE:HA	2.34	0.42
1:D:264:SER:HA	1:D:322:ALA:HB3	2.00	0.42
1:E:312:GLY:O	1:E:313:LYS:NZ	2.38	0.42
1:E:527:ILE:HG13	1:E:532:ARG:HH11	1.84	0.42
1:F:604:ARG:NH2	1:F:720:PHE:HA	2.34	0.42
1:F:622:ILE:HD12	1:F:702:LEU:HD11	2.00	0.42
1:A:264:SER:HA	1:A:322:ALA:HB3	2.00	0.42
1:A:604:ARG:HH21	1:A:720:PHE:C	2.25	0.42
1:B:314:THR:O	1:B:317:ALA:HB3	2.19	0.42
1:B:623:LEU:H	1:B:623:LEU:HD12	1.84	0.42
1:B:634:PHE:CE2	1:B:654:LEU:HD23	2.54	0.42
1:C:378:PRO:HG2	1:C:388:HIS:CE1	2.55	0.42
1:C:444:ARG:HE	1:C:444:ARG:HB2	1.71	0.42
1:C:488:LEU:O	1:C:491:ILE:HB	2.20	0.42
1:C:580:ASP:HB2	1:C:582:LYS:HZ1	1.85	0.42
1:C:709:LEU:O	1:C:710:SER:OG	2.26	0.42
1:C:743:PRO:HA	1:C:746:GLU:OE1	2.19	0.42
1:D:292:PHE:HD2	1:E:256:PRO:HB3	1.81	0.42
1:D:438:LEU:HD13	1:D:438:LEU:HA	1.75	0.42
1:D:757:GLY:HA3	1:D:1165:LYS:CG	2.50	0.42
1:E:264:SER:HA	1:E:322:ALA:HB3	2.00	0.42
1:E:381:SER:O	1:E:381:SER:OG	2.38	0.42
1:E:623:LEU:H	1:E:623:LEU:HD12	1.84	0.42
1:F:378:PRO:HG2	1:F:388:HIS:CE1	2.55	0.42
1:A:444:ARG:CG	1:A:468:ALA:HB1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:378:PRO:HG2	1:B:388:HIS:CE1	2.55	0.42
1:B:467:LEU:HA	1:B:470:LYS:HZ3	1.84	0.42
1:B:743:PRO:HA	1:B:746:GLU:OE1	2.19	0.42
1:B:1148:ASP:HA	1:B:1151:LEU:CG	2.50	0.42
1:C:623:LEU:HD12	1:C:623:LEU:H	1.84	0.42
1:D:267:SER:CB	1:D:315:LEU:HD13	2.48	0.42
1:D:378:PRO:HG2	1:D:388:HIS:ND1	2.34	0.42
1:D:622:ILE:HD11	1:D:702:LEU:HD11	2.01	0.42
1:D:634:PHE:CE2	1:D:654:LEU:HD23	2.54	0.42
1:E:297:MET:HE1	1:F:455:TRP:CE2	2.53	0.42
1:E:314:THR:O	1:E:317:ALA:HB3	2.19	0.42
1:E:540:PRO:CA	1:E:624:GLN:HG2	2.49	0.42
1:E:1152:HIS:O	1:E:1155:SER:OG	2.35	0.42
1:E:1153:LEU:HD21	1:E:1184:PHE:CD2	2.54	0.42
1:F:488:LEU:O	1:F:491:ILE:HB	2.20	0.42
1:F:743:PRO:HA	1:F:746:GLU:OE1	2.19	0.42
1:F:757:GLY:HA3	1:F:1165:LYS:CG	2.50	0.42
1:F:1137:LEU:CD1	1:F:1178:GLU:HB2	2.49	0.42
1:A:392:VAL:HA	1:A:395:LEU:HG	2.01	0.42
1:A:623:LEU:H	1:A:623:LEU:HD12	1.84	0.42
1:A:1134:LEU:HA	1:A:1137:LEU:HB2	2.02	0.42
1:B:343:SER:OG	1:B:345:TRP:N	2.52	0.42
1:B:392:VAL:HA	1:B:395:LEU:HG	2.01	0.42
1:B:406:GLY:O	1:C:256:PRO:HB2	2.20	0.42
1:B:444:ARG:NH2	1:B:472:LYS:HD2	2.35	0.42
1:B:482:LEU:HA	1:B:526:MET:HE3	2.00	0.42
1:B:604:ARG:NH2	1:B:720:PHE:HA	2.34	0.42
1:B:667:TYR:HD1	1:B:702:LEU:HD22	1.83	0.42
1:B:1132:THR:HA	1:B:1135:LYS:HG3	2.02	0.42
1:C:757:GLY:HA3	1:C:1165:LYS:CG	2.49	0.42
1:D:276:ASN:HA	1:D:279:LYS:CG	2.46	0.42
1:D:314:THR:O	1:D:317:ALA:HB3	2.19	0.42
1:D:590:GLN:HA	1:D:593:GLU:HG2	1.99	0.42
1:D:754:GLU:C	1:D:755:LEU:HD23	2.45	0.42
1:E:318:ARG:HH12	1:E:337:LYS:CE	2.31	0.42
1:E:472:LYS:HA	1:E:472:LYS:HD2	1.79	0.42
1:E:504:ARG:O	1:E:773:PRO:HG2	2.19	0.42
1:E:596:GLU:N	1:E:599:ARG:HD3	2.31	0.42
1:E:618:LEU:H	1:E:618:LEU:CD2	2.32	0.42
1:E:657:GLU:OE2	1:E:657:GLU:HA	2.20	0.42
1:F:371:ASP:HA	1:F:413:ALA:CB	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:596:GLU:N	1:F:599:ARG:HD3	2.31	0.42
1:F:1148:ASP:HA	1:F:1151:LEU:CG	2.50	0.42
1:F:1153:LEU:HD21	1:F:1184:PHE:CE2	2.55	0.42
1:A:590:GLN:HA	1:A:593:GLU:HG2	1.99	0.42
1:A:757:GLY:HA3	1:A:1165:LYS:CG	2.50	0.42
1:B:318:ARG:HH12	1:B:337:LYS:CE	2.31	0.42
1:B:504:ARG:O	1:B:773:PRO:HG2	2.19	0.42
1:C:482:LEU:HA	1:C:526:MET:HE3	2.00	0.42
1:D:378:PRO:HG2	1:D:388:HIS:CE1	2.55	0.42
1:D:392:VAL:HA	1:D:395:LEU:HG	2.01	0.42
1:D:488:LEU:O	1:D:491:ILE:HB	2.20	0.42
1:D:1132:THR:HA	1:D:1135:LYS:HG3	2.02	0.42
1:E:557:GLU:HA	1:E:560:LEU:HG	2.00	0.42
1:E:743:PRO:HA	1:E:746:GLU:OE1	2.19	0.42
1:F:518:ASP:HA	1:F:521:MET:HG3	2.01	0.42
1:F:551:GLU:OE1	1:F:551:GLU:N	2.35	0.42
1:F:630:HIS:O	1:F:664:SER:HA	2.20	0.42
1:F:689:MET:HA	1:F:692:ARG:CB	2.39	0.42
1:A:488:LEU:O	1:A:491:ILE:HB	2.20	0.42
1:A:657:GLU:OE2	1:A:657:GLU:HA	2.20	0.42
1:A:743:PRO:HA	1:A:746:GLU:OE1	2.19	0.42
1:A:754:GLU:C	1:A:755:LEU:HD23	2.45	0.42
1:C:630:HIS:O	1:C:664:SER:HA	2.20	0.42
1:C:1148:ASP:HA	1:C:1151:LEU:CG	2.50	0.42
1:D:348:GLU:OE1	1:D:348:GLU:HA	2.20	0.42
1:D:587:GLU:OE1	1:D:587:GLU:N	2.42	0.42
1:D:604:ARG:HH21	1:D:720:PHE:C	2.25	0.42
1:D:1134:LEU:HA	1:D:1137:LEU:HB2	2.02	0.42
1:E:330:LYS:HD3	1:E:330:LYS:HA	1.82	0.42
1:E:337:LYS:NZ	1:E:369:PHE:HB2	2.34	0.42
1:E:356:LEU:HD13	1:E:359:GLU:CD	2.45	0.42
1:F:395:LEU:HD12	1:F:396:LEU:N	2.35	0.42
1:F:463:LEU:HG	1:F:466:MET:HG2	2.02	0.42
1:F:667:TYR:HD1	1:F:702:LEU:HD22	1.83	0.42
1:A:378:PRO:HG2	1:A:388:HIS:CE1	2.55	0.42
1:A:444:ARG:NH2	1:A:472:LYS:HD2	2.35	0.42
1:A:1132:THR:HA	1:A:1135:LYS:HG3	2.02	0.42
1:A:1148:ASP:HA	1:A:1151:LEU:CG	2.50	0.42
1:B:313:LYS:HA	1:B:313:LYS:HD3	1.85	0.42
1:B:395:LEU:HD12	1:B:396:LEU:N	2.35	0.42
1:B:678:LEU:HD13	1:B:678:LEU:HA	1.90	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1134:LEU:HA	1:B:1137:LEU:HB2	2.02	0.42
1:C:463:LEU:HG	1:C:466:MET:HG2	2.02	0.42
1:C:491:ILE:HD13	1:C:512:ILE:CD1	2.35	0.42
1:C:504:ARG:O	1:C:773:PRO:HG2	2.19	0.42
1:D:381:SER:O	1:D:381:SER:OG	2.38	0.42
1:D:592:LEU:HD12	1:D:593:GLU:N	2.35	0.42
1:D:630:HIS:O	1:D:664:SER:HA	2.20	0.42
1:D:1137:LEU:CD1	1:D:1178:GLU:HB2	2.50	0.42
1:D:1186:ILE:H	1:D:1186:ILE:HG13	1.30	0.42
1:E:286:LEU:HD23	1:E:365:PRO:HB3	2.01	0.42
1:E:292:PHE:CZ	1:E:299:PRO:HG2	2.55	0.42
1:E:482:LEU:HA	1:E:526:MET:HE3	2.00	0.42
1:F:623:LEU:HD12	1:F:623:LEU:H	1.84	0.42
1:F:1132:THR:HA	1:F:1135:LYS:HG3	2.02	0.42
1:F:1134:LEU:HA	1:F:1137:LEU:HB2	2.02	0.42
1:B:292:PHE:CZ	1:B:299:PRO:HG2	2.55	0.42
1:B:297:MET:HE2	1:C:454:ASN:HB2	2.00	0.42
1:B:463:LEU:HG	1:B:466:MET:HG2	2.02	0.42
1:C:348:GLU:OE1	1:C:348:GLU:HA	2.20	0.42
1:C:392:VAL:HA	1:C:395:LEU:HG	2.01	0.42
1:C:395:LEU:HD12	1:C:396:LEU:N	2.35	0.42
1:C:442:ASP:HA	1:C:445:LYS:HB3	2.01	0.42
1:C:515:LYS:HG2	1:C:517:LYS:N	2.26	0.42
1:C:667:TYR:HD1	1:C:702:LEU:HD22	1.83	0.42
1:C:689:MET:HA	1:C:692:ARG:CB	2.39	0.42
1:D:313:LYS:HA	1:D:313:LYS:HD3	1.85	0.42
1:D:518:ASP:HA	1:D:521:MET:HG3	2.00	0.42
1:E:302:GLY:HA3	1:E:430:PHE:HA	2.02	0.42
1:E:444:ARG:NH2	1:E:472:LYS:HD2	2.35	0.42
1:E:754:GLU:C	1:E:755:LEU:HD23	2.45	0.42
1:E:757:GLY:HA3	1:E:1165:LYS:CG	2.50	0.42
1:F:540:PRO:CA	1:F:624:GLN:HG2	2.49	0.42
1:A:517:LYS:HB2	1:F:583:GLU:HG3	1.99	0.42
1:A:517:LYS:O	1:A:521:MET:HG2	2.20	0.42
1:A:518:ASP:HA	1:A:521:MET:HG3	2.00	0.42
1:A:622:ILE:HD11	1:A:702:LEU:HD11	2.01	0.42
1:A:663:PRO:CG	1:A:698:GLN:HE21	2.25	0.42
1:B:657:GLU:HA	1:B:657:GLU:OE2	2.20	0.42
1:B:723:LYS:HZ3	1:C:1186:ILE:HD11	1.83	0.42
1:C:540:PRO:CD	1:C:624:GLN:HG2	2.50	0.42
1:C:1132:THR:HA	1:C:1135:LYS:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:395:LEU:HD12	1:D:396:LEU:N	2.35	0.42
1:D:504:ARG:O	1:D:773:PRO:HG2	2.19	0.42
1:E:378:PRO:HG2	1:E:388:HIS:CE1	2.55	0.42
1:E:392:VAL:HA	1:E:395:LEU:HG	2.01	0.42
1:E:1132:THR:HA	1:E:1135:LYS:HG3	2.02	0.42
1:E:1134:LEU:HA	1:E:1137:LEU:HB2	2.02	0.42
1:E:1148:ASP:HA	1:E:1151:LEU:CG	2.50	0.42
1:E:1153:LEU:HD21	1:E:1184:PHE:CE2	2.55	0.42
1:F:264:SER:HA	1:F:322:ALA:HB3	2.00	0.42
1:F:592:LEU:HD12	1:F:593:GLU:N	2.35	0.42
1:F:754:GLU:C	1:F:755:LEU:HD23	2.45	0.42
1:A:292:PHE:CZ	1:A:299:PRO:HG2	2.55	0.41
1:A:395:LEU:HD12	1:A:396:LEU:N	2.35	0.41
1:A:472:LYS:HA	1:A:472:LYS:HD2	1.79	0.41
1:A:1186:ILE:H	1:A:1186:ILE:HG13	1.30	0.41
1:B:267:SER:CB	1:B:315:LEU:HD13	2.48	0.41
1:B:330:LYS:HD3	1:B:330:LYS:HA	1.82	0.41
1:B:622:ILE:HD11	1:B:702:LEU:HD11	2.01	0.41
1:B:698:GLN:OE1	1:B:698:GLN:N	2.48	0.41
1:B:754:GLU:C	1:B:755:LEU:HD23	2.45	0.41
1:C:517:LYS:O	1:C:521:MET:HG2	2.20	0.41
1:D:286:LEU:HD23	1:D:365:PRO:HB3	2.01	0.41
1:D:445:LYS:HE2	1:D:449:GLU:OE2	2.20	0.41
1:D:497:GLN:CG	1:D:766:LEU:HD23	2.41	0.41
1:D:657:GLU:OE2	1:D:657:GLU:HA	2.20	0.41
1:D:1153:LEU:HD21	1:D:1184:PHE:CE2	2.55	0.41
1:E:622:ILE:HD11	1:E:702:LEU:HD11	2.01	0.41
1:E:630:HIS:O	1:E:664:SER:HA	2.20	0.41
1:F:314:THR:O	1:F:317:ALA:HB3	2.19	0.41
1:F:442:ASP:HA	1:F:445:LYS:HB3	2.01	0.41
1:F:517:LYS:O	1:F:521:MET:HG2	2.20	0.41
1:F:622:ILE:HD11	1:F:702:LEU:HD11	2.01	0.41
1:A:276:ASN:HA	1:A:279:LYS:CG	2.46	0.41
1:A:429:ARG:HD2	1:A:429:ARG:N	2.36	0.41
1:A:445:LYS:HE2	1:A:449:GLU:OE2	2.20	0.41
1:B:265:PHE:CZ	1:B:320:LEU:HB2	2.56	0.41
1:B:334:TYR:CE2	1:B:360:ALA:HA	2.55	0.41
1:B:542:SER:O	1:B:546:LYS:HG3	2.21	0.41
1:B:596:GLU:N	1:B:599:ARG:HD3	2.31	0.41
1:B:598:LEU:HB2	1:C:1158:TYR:CE2	2.54	0.41
1:B:1153:LEU:HD21	1:B:1184:PHE:CD2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1153:LEU:HD21	1:B:1184:PHE:CE2	2.55	0.41
1:C:754:GLU:C	1:C:755:LEU:HD23	2.45	0.41
1:C:1134:LEU:HA	1:C:1137:LEU:HB2	2.02	0.41
1:D:540:PRO:CD	1:D:624:GLN:HG2	2.50	0.41
1:D:623:LEU:H	1:D:623:LEU:HD12	1.84	0.41
1:E:342:LEU:HD12	1:E:387:ILE:HD13	2.02	0.41
1:E:517:LYS:O	1:E:521:MET:HG2	2.20	0.41
1:E:592:LEU:HD12	1:E:593:GLU:N	2.35	0.41
1:E:604:ARG:NH2	1:E:720:PHE:HA	2.34	0.41
1:E:604:ARG:HH21	1:E:720:PHE:C	2.25	0.41
1:F:392:VAL:HA	1:F:395:LEU:HG	2.01	0.41
1:F:542:SER:O	1:F:546:LYS:HG3	2.21	0.41
1:A:265:PHE:CZ	1:A:320:LEU:HB2	2.56	0.41
1:A:339:ALA:HA	1:A:376:LEU:HG	2.02	0.41
1:B:302:GLY:HA3	1:B:430:PHE:HA	2.02	0.41
1:B:348:GLU:OE1	1:B:348:GLU:HA	2.20	0.41
1:B:429:ARG:HD2	1:B:429:ARG:N	2.36	0.41
1:C:265:PHE:CZ	1:C:320:LEU:HB2	2.56	0.41
1:C:267:SER:CB	1:C:315:LEU:HD13	2.49	0.41
1:C:330:LYS:HD3	1:C:330:LYS:HA	1.82	0.41
1:C:356:LEU:HD13	1:C:359:GLU:CD	2.45	0.41
1:C:541:LEU:CG	1:C:545:LEU:HB2	2.49	0.41
1:C:542:SER:O	1:C:546:LYS:HG3	2.21	0.41
1:D:265:PHE:CZ	1:D:320:LEU:HB2	2.56	0.41
1:D:429:ARG:HD2	1:D:429:ARG:N	2.36	0.41
1:D:444:ARG:NH2	1:D:472:LYS:HD2	2.35	0.41
1:D:472:LYS:HA	1:D:472:LYS:HD2	1.79	0.41
1:D:618:LEU:H	1:D:618:LEU:CD2	2.32	0.41
1:D:1148:ASP:HA	1:D:1151:LEU:CG	2.50	0.41
1:F:292:PHE:CZ	1:F:299:PRO:HG2	2.55	0.41
1:F:444:ARG:NH2	1:F:472:LYS:HD2	2.35	0.41
1:F:724:GLN:OE1	1:F:724:GLN:N	2.33	0.41
1:A:618:LEU:H	1:A:618:LEU:CD2	2.32	0.41
1:B:630:HIS:O	1:B:664:SER:HA	2.20	0.41
1:B:757:GLY:HA3	1:B:1165:LYS:CG	2.50	0.41
1:C:292:PHE:CZ	1:C:299:PRO:HG2	2.55	0.41
1:C:444:ARG:NH2	1:C:472:LYS:HD2	2.35	0.41
1:C:450:ILE:O	1:C:453:ARG:HB2	2.21	0.41
1:C:657:GLU:HA	1:C:657:GLU:OE2	2.20	0.41
1:D:331:VAL:HA	1:D:365:PRO:O	2.20	0.41
1:D:334:TYR:CE2	1:D:360:ALA:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:339:ALA:HA	1:D:376:LEU:HG	2.03	0.41
1:D:718:GLU:HA	1:D:721:SER:OG	2.21	0.41
1:D:743:PRO:HA	1:D:746:GLU:OE1	2.19	0.41
1:E:474:TYR:CB	1:E:478:ASP:HB2	2.39	0.41
1:E:488:LEU:O	1:E:491:ILE:HB	2.20	0.41
1:E:542:SER:O	1:E:546:LYS:HG3	2.20	0.41
1:E:698:GLN:OE1	1:E:698:GLN:N	2.48	0.41
1:E:718:GLU:HA	1:E:721:SER:OG	2.21	0.41
1:E:1128:GLU:OE2	1:E:1130:ARG:NE	2.35	0.41
1:F:276:ASN:CA	1:F:279:LYS:HG2	2.47	0.41
1:F:302:GLY:HA3	1:F:430:PHE:HA	2.02	0.41
1:F:356:LEU:HD13	1:F:359:GLU:CD	2.45	0.41
1:F:429:ARG:HD2	1:F:429:ARG:N	2.36	0.41
1:F:657:GLU:OE2	1:F:657:GLU:HA	2.20	0.41
1:A:634:PHE:CE2	1:A:654:LEU:HD23	2.54	0.41
1:A:649:THR:HA	1:A:652:ILE:HG12	2.02	0.41
1:A:718:GLU:HA	1:A:721:SER:OG	2.20	0.41
1:B:342:LEU:HD12	1:B:387:ILE:HD13	2.03	0.41
1:B:356:LEU:HD13	1:B:359:GLU:CD	2.45	0.41
1:B:488:LEU:O	1:B:491:ILE:HB	2.20	0.41
1:B:491:ILE:HD13	1:B:512:ILE:CD1	2.35	0.41
1:B:517:LYS:O	1:B:521:MET:HG2	2.20	0.41
1:B:540:PRO:CD	1:B:624:GLN:HG2	2.50	0.41
1:B:592:LEU:HD12	1:B:593:GLU:N	2.35	0.41
1:C:276:ASN:HA	1:C:279:LYS:CG	2.46	0.41
1:C:621:ALA:HA	1:C:624:GLN:HB2	2.03	0.41
1:C:1154:HIS:O	1:C:1157:LEU:HG	2.21	0.41
1:D:541:LEU:HD11	1:D:545:LEU:CB	2.51	0.41
1:D:601:TYR:CE2	1:D:602:LYS:HD2	2.56	0.41
1:E:265:PHE:CZ	1:E:320:LEU:HB2	2.56	0.41
1:E:331:VAL:HA	1:E:365:PRO:O	2.20	0.41
1:E:541:LEU:HD11	1:E:545:LEU:CB	2.51	0.41
1:F:348:GLU:OE1	1:F:348:GLU:HA	2.20	0.41
1:F:621:ALA:HA	1:F:624:GLN:HB2	2.03	0.41
1:F:649:THR:HA	1:F:652:ILE:HG12	2.02	0.41
1:A:450:ILE:O	1:A:453:ARG:HB2	2.21	0.41
1:A:540:PRO:CD	1:A:624:GLN:HG2	2.50	0.41
1:A:630:HIS:O	1:A:664:SER:HA	2.20	0.41
1:B:449:GLU:O	1:B:452:THR:OG1	2.39	0.41
1:B:541:LEU:HD11	1:B:545:LEU:CB	2.51	0.41
1:C:271:LEU:HG	1:C:274:TYR:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:622:ILE:HD11	1:C:702:LEU:HD11	2.01	0.41
1:D:356:LEU:HD13	1:D:359:GLU:CD	2.45	0.41
1:D:467:LEU:HA	1:D:470:LYS:HZ3	1.83	0.41
1:D:649:THR:HA	1:D:652:ILE:HG12	2.02	0.41
1:E:298:GLN:HB3	1:F:258:GLY:H	1.85	0.41
1:E:334:TYR:O	1:E:368:ILE:HA	2.21	0.41
1:E:348:GLU:O	1:E:352:GLN:HG2	2.21	0.41
1:E:395:LEU:HD12	1:E:396:LEU:N	2.35	0.41
1:E:397:ALA:HA	1:E:401:GLY:CA	2.47	0.41
1:E:449:GLU:O	1:E:452:THR:OG1	2.39	0.41
1:E:463:LEU:HG	1:E:466:MET:HG2	2.02	0.41
1:F:504:ARG:O	1:F:773:PRO:HG2	2.19	0.41
1:F:610:ARG:H	1:F:613:LEU:CD2	2.34	0.41
1:A:331:VAL:HA	1:A:365:PRO:O	2.20	0.41
1:A:492:LYS:HZ3	1:A:498:LEU:HB2	1.85	0.41
1:A:587:GLU:OE1	1:A:587:GLU:N	2.42	0.41
1:A:592:LEU:HD12	1:A:593:GLU:N	2.35	0.41
1:B:335:MET:HB3	1:B:337:LYS:HZ2	1.84	0.41
1:B:601:TYR:CE2	1:B:602:LYS:HD2	2.56	0.41
1:C:331:VAL:HA	1:C:365:PRO:O	2.20	0.41
1:C:335:MET:HB3	1:C:337:LYS:HZ2	1.85	0.41
1:C:1132:THR:HG22	1:C:1135:LYS:HD3	2.03	0.41
1:D:348:GLU:O	1:D:352:GLN:HG2	2.21	0.41
1:D:450:ILE:O	1:D:453:ARG:HB2	2.21	0.41
1:D:557:GLU:HA	1:D:560:LEU:HG	2.00	0.41
1:D:1154:HIS:O	1:D:1157:LEU:HG	2.20	0.41
1:E:334:TYR:CE2	1:E:360:ALA:HA	2.55	0.41
1:E:429:ARG:N	1:E:429:ARG:HD2	2.35	0.41
1:E:540:PRO:CD	1:E:624:GLN:HG2	2.50	0.41
1:E:579:ASP:O	1:F:762:LYS:HB2	2.20	0.41
1:E:580:ASP:HB2	1:E:582:LYS:HZ1	1.85	0.41
1:E:596:GLU:H	1:E:599:ARG:CD	2.27	0.41
1:F:334:TYR:O	1:F:368:ILE:HA	2.21	0.41
1:F:718:GLU:HA	1:F:721:SER:OG	2.21	0.41
1:A:619:GLY:O	1:A:623:LEU:HD12	2.21	0.41
1:A:1153:LEU:HD21	1:A:1184:PHE:CE2	2.55	0.41
1:B:445:LYS:HE2	1:B:449:GLU:OE2	2.20	0.41
1:B:450:ILE:O	1:B:453:ARG:HB2	2.21	0.41
1:B:604:ARG:HH21	1:B:720:PHE:C	2.25	0.41
1:B:615:GLN:NE2	1:B:705:SER:O	2.54	0.41
1:B:619:GLY:O	1:B:623:LEU:HD12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:621:ALA:HA	1:B:624:GLN:HB2	2.03	0.41
1:C:286:LEU:HD23	1:C:365:PRO:HB3	2.01	0.41
1:C:302:GLY:HA3	1:C:430:PHE:HA	2.02	0.41
1:C:344:LYS:HD3	1:C:344:LYS:HA	1.87	0.41
1:C:445:LYS:HE2	1:C:449:GLU:OE2	2.20	0.41
1:C:449:GLU:O	1:C:452:THR:OG1	2.39	0.41
1:C:543:PRO:HD2	1:C:544:GLU:OE1	2.21	0.41
1:C:615:GLN:NE2	1:C:705:SER:O	2.54	0.41
1:C:724:GLN:OE1	1:C:724:GLN:N	2.33	0.41
1:C:1153:LEU:HD21	1:C:1184:PHE:CE2	2.55	0.41
1:D:276:ASN:CA	1:D:279:LYS:HG2	2.47	0.41
1:D:312:GLY:O	1:D:313:LYS:NZ	2.38	0.41
1:D:336:ARG:HE	1:D:337:LYS:N	2.19	0.41
1:D:396:LEU:HD21	1:D:423:ALA:O	2.21	0.41
1:D:517:LYS:O	1:D:521:MET:HG2	2.20	0.41
1:D:551:GLU:OE1	1:D:551:GLU:N	2.35	0.41
1:E:445:LYS:HE2	1:E:449:GLU:OE2	2.20	0.41
1:E:450:ILE:O	1:E:453:ARG:HB2	2.21	0.41
1:E:580:ASP:OD2	1:E:582:LYS:HE2	2.21	0.41
1:F:392:VAL:HA	1:F:395:LEU:CG	2.51	0.41
1:F:479:LEU:HD23	1:F:482:LEU:HD12	2.02	0.41
1:F:1131:LEU:O	1:F:1135:LYS:HG3	2.21	0.41
1:F:1154:HIS:O	1:F:1157:LEU:HG	2.21	0.41
1:A:271:LEU:HG	1:A:274:TYR:CD2	2.56	0.41
1:A:302:GLY:HA3	1:A:430:PHE:HA	2.02	0.41
1:A:336:ARG:HE	1:A:337:LYS:N	2.19	0.41
1:A:479:LEU:HD23	1:A:482:LEU:HD12	2.02	0.41
1:A:510:LYS:HA	1:A:510:LYS:HD2	1.89	0.41
1:A:543:PRO:HD2	1:A:544:GLU:OE1	2.21	0.41
1:A:580:ASP:OD2	1:A:582:LYS:HE2	2.21	0.41
1:A:601:TYR:CE2	1:A:602:LYS:HD2	2.56	0.41
1:A:648:GLU:H	1:A:648:GLU:HG2	1.74	0.41
1:A:715:GLN:HA	1:A:718:GLU:OE1	2.21	0.41
1:A:1132:THR:HG22	1:A:1135:LYS:HD3	2.03	0.41
1:B:279:LYS:HB2	1:B:279:LYS:HE3	1.83	0.41
1:B:331:VAL:HA	1:B:365:PRO:O	2.20	0.41
1:B:342:LEU:HD12	1:B:342:LEU:HA	1.84	0.41
1:B:392:VAL:HA	1:B:395:LEU:CG	2.51	0.41
1:B:479:LEU:HD23	1:B:482:LEU:HD12	2.02	0.41
1:B:543:PRO:HD2	1:B:544:GLU:OE1	2.21	0.41
1:B:590:GLN:HA	1:B:593:GLU:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:610:ARG:H	1:B:613:LEU:CD2	2.34	0.41
1:B:649:THR:HA	1:B:652:ILE:HG12	2.02	0.41
1:B:654:LEU:HD12	1:B:654:LEU:HA	1.88	0.41
1:B:670:ASP:H	1:B:704:LEU:CD1	2.34	0.41
1:B:718:GLU:HA	1:B:721:SER:OG	2.21	0.41
1:B:1131:LEU:O	1:B:1135:LYS:HG3	2.21	0.41
1:C:334:TYR:O	1:C:368:ILE:HA	2.21	0.41
1:C:356:LEU:HA	1:C:359:GLU:OE2	2.21	0.41
1:C:396:LEU:HA	1:C:396:LEU:HD23	1.85	0.41
1:C:429:ARG:HD2	1:C:429:ARG:N	2.36	0.41
1:C:580:ASP:OD2	1:C:582:LYS:HE2	2.21	0.41
1:C:592:LEU:HD12	1:C:593:GLU:N	2.35	0.41
1:C:715:GLN:HA	1:C:718:GLU:OE1	2.21	0.41
1:C:1131:LEU:O	1:C:1135:LYS:HG3	2.21	0.41
1:D:292:PHE:CZ	1:D:299:PRO:HG2	2.55	0.41
1:D:531:GLU:HA	1:D:534:SER:O	2.21	0.41
1:D:615:GLN:NE2	1:D:705:SER:O	2.54	0.41
1:D:1132:THR:HG22	1:D:1135:LYS:HD3	2.03	0.41
1:E:347:GLY:CA	1:E:350:GLU:HB2	2.48	0.41
1:E:348:GLU:OE1	1:E:348:GLU:HA	2.20	0.41
1:E:356:LEU:HA	1:E:359:GLU:OE2	2.21	0.41
1:E:492:LYS:HD2	1:E:492:LYS:HA	1.81	0.41
1:E:531:GLU:HA	1:E:534:SER:O	2.21	0.41
1:E:543:PRO:HD2	1:E:544:GLU:OE1	2.21	0.41
1:E:586:PHE:HB3	1:F:466:MET:HE1	2.02	0.41
1:E:712:LEU:H	1:E:717:ARG:NH1	2.19	0.41
1:F:396:LEU:HD21	1:F:423:ALA:O	2.21	0.41
1:F:445:LYS:HE2	1:F:449:GLU:OE2	2.20	0.41
1:F:449:GLU:O	1:F:452:THR:OG1	2.39	0.41
1:F:450:ILE:O	1:F:453:ARG:HB2	2.21	0.41
1:F:543:PRO:HD2	1:F:544:GLU:OE1	2.21	0.41
1:F:715:GLN:HA	1:F:718:GLU:OE1	2.21	0.41
1:A:313:LYS:HD3	1:A:313:LYS:HA	1.85	0.41
1:A:334:TYR:O	1:A:368:ILE:HA	2.21	0.41
1:A:463:LEU:HG	1:A:466:MET:HG2	2.02	0.41
1:A:615:GLN:NE2	1:A:705:SER:O	2.54	0.41
1:A:621:ALA:HA	1:A:624:GLN:HB2	2.03	0.41
1:A:1154:HIS:O	1:A:1157:LEU:HG	2.21	0.41
1:B:356:LEU:HA	1:B:359:GLU:OE2	2.21	0.41
1:B:708:PRO:HD2	1:B:711:GLU:OE2	2.21	0.41
1:C:746:GLU:HA	1:C:749:LYS:HZ3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:463:LEU:HG	1:D:466:MET:HG2	2.02	0.41
1:D:1176:GLU:HA	1:D:1179:ARG:HG2	2.03	0.41
1:E:370:PHE:HB3	1:E:412:GLY:HA2	2.03	0.41
1:E:479:LEU:HD23	1:E:482:LEU:HD12	2.02	0.41
1:F:271:LEU:HG	1:F:274:TYR:CD2	2.56	0.41
1:F:279:LYS:HE3	1:F:279:LYS:HB2	1.83	0.41
1:F:336:ARG:HE	1:F:337:LYS:N	2.19	0.41
1:F:370:PHE:HB3	1:F:412:GLY:HA2	2.03	0.41
1:F:396:LEU:HA	1:F:396:LEU:HD23	1.85	0.41
1:F:540:PRO:CD	1:F:624:GLN:HG2	2.50	0.41
1:F:541:LEU:HD11	1:F:545:LEU:CB	2.51	0.41
1:F:580:ASP:OD2	1:F:582:LYS:HE2	2.21	0.41
1:F:648:GLU:HA	1:F:651:ILE:CD1	2.43	0.41
1:A:348:GLU:OE1	1:A:348:GLU:HA	2.20	0.40
1:A:348:GLU:O	1:A:352:GLN:HG2	2.21	0.40
1:A:397:ALA:HA	1:A:401:GLY:CA	2.47	0.40
1:A:589:GLN:NE2	1:B:517:LYS:HA	2.36	0.40
1:A:678:LEU:HB3	1:A:682:ALA:CB	2.50	0.40
1:A:709:LEU:HA	1:A:712:LEU:HD21	2.03	0.40
1:B:295:PHE:CD2	1:C:455:TRP:HD1	2.39	0.40
1:B:334:TYR:O	1:B:368:ILE:HA	2.21	0.40
1:B:370:PHE:HB3	1:B:412:GLY:HA2	2.03	0.40
1:B:455:TRP:HH2	1:B:483:CYS:HB2	1.87	0.40
1:B:737:ILE:O	1:B:740:PHE:N	2.55	0.40
1:C:334:TYR:CE2	1:C:360:ALA:HA	2.55	0.40
1:C:342:LEU:HD12	1:C:387:ILE:HD13	2.03	0.40
1:C:541:LEU:HD11	1:C:545:LEU:CB	2.51	0.40
1:C:590:GLN:HA	1:C:593:GLU:HG2	1.99	0.40
1:D:479:LEU:HD23	1:D:482:LEU:HD12	2.02	0.40
1:D:543:PRO:HD2	1:D:544:GLU:OE1	2.21	0.40
1:D:619:GLY:O	1:D:623:LEU:HD12	2.21	0.40
1:D:709:LEU:HA	1:D:712:LEU:HD21	2.03	0.40
1:D:715:GLN:HA	1:D:718:GLU:OE1	2.21	0.40
1:E:265:PHE:H	1:E:319:ALA:HA	1.86	0.40
1:E:267:SER:CB	1:E:315:LEU:HD13	2.49	0.40
1:E:336:ARG:HE	1:E:337:LYS:N	2.19	0.40
1:E:455:TRP:HH2	1:E:483:CYS:HB2	1.87	0.40
1:E:610:ARG:H	1:E:613:LEU:CD2	2.34	0.40
1:E:621:ALA:HA	1:E:624:GLN:HB2	2.03	0.40
1:E:737:ILE:O	1:E:740:PHE:N	2.54	0.40
1:E:1131:LEU:O	1:E:1135:LYS:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:265:PHE:H	1:F:319:ALA:HB1	1.86	0.40
1:F:265:PHE:CZ	1:F:320:LEU:HB2	2.56	0.40
1:F:348:GLU:O	1:F:352:GLN:HG2	2.21	0.40
1:F:615:GLN:NE2	1:F:705:SER:O	2.54	0.40
1:A:265:PHE:H	1:A:319:ALA:HB1	1.86	0.40
1:A:276:ASN:CA	1:A:279:LYS:HG2	2.47	0.40
1:A:334:TYR:HH	1:A:363:THR:HG1	1.61	0.40
1:A:392:VAL:HA	1:A:395:LEU:CG	2.51	0.40
1:A:455:TRP:HH2	1:A:483:CYS:HB2	1.87	0.40
1:B:265:PHE:H	1:B:319:ALA:HB1	1.86	0.40
1:B:348:GLU:O	1:B:352:GLN:HG2	2.21	0.40
1:B:396:LEU:HA	1:B:396:LEU:HD23	1.85	0.40
1:C:265:PHE:H	1:C:319:ALA:HB1	1.86	0.40
1:C:610:ARG:H	1:C:613:LEU:CD2	2.34	0.40
1:D:271:LEU:HG	1:D:274:TYR:CD2	2.56	0.40
1:D:542:SER:O	1:D:546:LYS:HG3	2.20	0.40
1:D:580:ASP:OD2	1:D:582:LYS:HE2	2.21	0.40
1:E:339:ALA:HA	1:E:376:LEU:HG	2.02	0.40
1:E:343:SER:OG	1:E:348:GLU:HB3	2.22	0.40
1:E:450:ILE:HD12	1:E:453:ARG:HG3	2.03	0.40
1:E:615:GLN:NE2	1:E:705:SER:O	2.54	0.40
1:F:292:PHE:C	1:F:296:ASN:HA	2.46	0.40
1:F:342:LEU:HD12	1:F:387:ILE:HD13	2.03	0.40
1:A:342:LEU:HD12	1:A:387:ILE:HD13	2.03	0.40
1:A:541:LEU:HD11	1:A:545:LEU:CB	2.51	0.40
1:A:1131:LEU:O	1:A:1135:LYS:HG3	2.21	0.40
1:A:1137:LEU:CD1	1:A:1178:GLU:HB2	2.50	0.40
1:A:1176:GLU:HA	1:A:1179:ARG:HG2	2.04	0.40
1:B:450:ILE:HD12	1:B:453:ARG:HG3	2.03	0.40
1:B:596:GLU:H	1:B:599:ARG:CD	2.27	0.40
1:C:257:LEU:H	1:C:257:LEU:HD23	1.87	0.40
1:C:336:ARG:HE	1:C:337:LYS:N	2.19	0.40
1:C:370:PHE:HB3	1:C:412:GLY:HA2	2.04	0.40
1:C:450:ILE:HD12	1:C:453:ARG:HG3	2.03	0.40
1:C:455:TRP:HH2	1:C:483:CYS:HB2	1.87	0.40
1:C:618:LEU:H	1:C:618:LEU:CD2	2.32	0.40
1:C:708:PRO:HD2	1:C:711:GLU:OE2	2.21	0.40
1:C:712:LEU:H	1:C:717:ARG:NH1	2.19	0.40
1:D:302:GLY:HA3	1:D:430:PHE:HA	2.02	0.40
1:D:392:VAL:HA	1:D:395:LEU:CG	2.51	0.40
1:D:621:ALA:HA	1:D:624:GLN:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:712:LEU:H	1:D:717:ARG:NH1	2.19	0.40
1:D:737:ILE:O	1:D:740:PHE:N	2.54	0.40
1:E:265:PHE:H	1:E:319:ALA:HB1	1.86	0.40
1:F:265:PHE:H	1:F:319:ALA:HA	1.86	0.40
1:F:339:ALA:HA	1:F:376:LEU:HG	2.03	0.40
1:F:455:TRP:HH2	1:F:483:CYS:HB2	1.87	0.40
1:F:618:LEU:H	1:F:618:LEU:CD2	2.32	0.40
1:F:619:GLY:O	1:F:623:LEU:HD12	2.21	0.40
1:F:737:ILE:O	1:F:740:PHE:N	2.54	0.40
1:A:531:GLU:HA	1:A:534:SER:O	2.21	0.40
1:B:271:LEU:HG	1:B:274:TYR:CD2	2.56	0.40
1:B:280:GLU:OE1	1:C:492:LYS:CG	2.69	0.40
1:B:397:ALA:HA	1:B:401:GLY:CA	2.47	0.40
1:B:551:GLU:OE1	1:B:551:GLU:N	2.35	0.40
1:C:479:LEU:HD23	1:C:482:LEU:HD12	2.02	0.40
1:C:619:GLY:O	1:C:623:LEU:HD12	2.21	0.40
1:C:1135:LYS:HA	1:C:1138:LEU:CD2	2.52	0.40
1:D:539:LYS:HE2	1:D:539:LYS:HB2	1.93	0.40
1:E:396:LEU:HD21	1:E:423:ALA:O	2.21	0.40
1:E:547:PRO:C	1:E:548:LEU:HD23	2.47	0.40
1:E:590:GLN:HA	1:E:593:GLU:HG3	2.02	0.40
1:E:708:PRO:HD2	1:E:711:GLU:OE2	2.21	0.40
1:E:1135:LYS:HA	1:E:1138:LEU:CD2	2.52	0.40
1:F:331:VAL:HA	1:F:365:PRO:O	2.20	0.40
1:F:334:TYR:CE2	1:F:360:ALA:HA	2.55	0.40
1:F:539:LYS:HE2	1:F:539:LYS:HB2	1.93	0.40
1:A:334:TYR:CE2	1:A:360:ALA:HA	2.55	0.40
1:A:370:PHE:HB3	1:A:412:GLY:HA2	2.03	0.40
1:A:396:LEU:HD21	1:A:423:ALA:O	2.21	0.40
1:A:491:ILE:HD13	1:A:512:ILE:CD1	2.35	0.40
1:A:670:ASP:H	1:A:704:LEU:CD1	2.34	0.40
1:B:287:LEU:HG	1:B:288:TYR:CE1	2.56	0.40
1:B:351:ARG:HA	1:B:354:ARG:HB2	2.04	0.40
1:B:678:LEU:HB3	1:B:682:ALA:CB	2.50	0.40
1:C:531:GLU:HA	1:C:534:SER:O	2.21	0.40
1:C:560:LEU:HD12	1:C:561:GLN:N	2.37	0.40
1:C:649:THR:HA	1:C:652:ILE:HG12	2.02	0.40
1:C:670:ASP:H	1:C:704:LEU:CD1	2.34	0.40
1:D:292:PHE:C	1:D:296:ASN:HA	2.46	0.40
1:D:370:PHE:HB3	1:D:412:GLY:HA2	2.03	0.40
1:E:271:LEU:HG	1:E:274:TYR:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:287:LEU:HG	1:E:288:TYR:CE1	2.56	0.40
1:E:380:ARG:HH12	1:F:375:GLY:CA	2.33	0.40
1:E:601:TYR:CE2	1:E:602:LYS:HD2	2.56	0.40
1:E:619:GLY:O	1:E:623:LEU:HD12	2.21	0.40
1:E:746:GLU:HA	1:E:749:LYS:HZ3	1.85	0.40
1:E:1154:HIS:O	1:E:1157:LEU:HG	2.20	0.40
1:F:492:LYS:HD2	1:F:498:LEU:CD1	2.50	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	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	43	77
1	B	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	43	77
1	C	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	43	77
1	D	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	43	77
1	E	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	43	77
1	F	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	43	77
All	All	3438/7188 (48%)	3096 (90%)	336 (10%)	6 (0%)	44	77

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	258	GLY
1	B	258	GLY
1	C	258	GLY
1	D	258	GLY
1	E	258	GLY
1	F	258	GLY

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	522/1086 (48%)	472 (90%)	50 (10%)	8	26
1	B	522/1086 (48%)	472 (90%)	50 (10%)	8	26
1	C	522/1086 (48%)	472 (90%)	50 (10%)	8	26
1	D	522/1086 (48%)	472 (90%)	50 (10%)	8	26
1	E	522/1086 (48%)	472 (90%)	50 (10%)	8	26
1	F	522/1086 (48%)	472 (90%)	50 (10%)	8	26
All	All	3132/6516 (48%)	2832 (90%)	300 (10%)	10	26

All (300) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	257	LEU
1	A	259	VAL
1	A	260	ASP
1	A	263	LEU
1	A	282	VAL
1	A	283	MET
1	A	286	LEU
1	A	325	SER
1	A	326	SER
1	A	342	LEU
1	A	343	SER
1	A	344	LYS
1	A	346	VAL
1	A	350	GLU
1	A	366	SER
1	A	370	PHE
1	A	379	VAL
1	A	381	SER
1	A	383	LYS
1	A	386	GLN
1	A	416	ARG
1	A	418	ASP

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Mol	Chain	Res	Type
1	A	426	ARG
1	A	432	ARG
1	A	433	GLU
1	A	438	LEU
1	A	469	GLU
1	A	485	GLU
1	A	502	THR
1	A	523	MET
1	A	531	GLU
1	A	533	SER
1	A	534	SER
1	A	569	LYS
1	A	575	GLU
1	A	593	GLU
1	A	633	SER
1	A	640	LEU
1	A	656	LEU
1	A	659	ARG
1	A	680	LEU
1	A	692	ARG
1	A	705	SER
1	A	709	LEU
1	A	729	LEU
1	A	1129	ASP
1	A	1137	LEU
1	A	1166	SER
1	A	1175	ASP
1	A	1186	ILE
1	B	257	LEU
1	B	259	VAL
1	B	260	ASP
1	B	263	LEU
1	B	282	VAL
1	B	283	MET
1	B	286	LEU
1	B	325	SER
1	B	326	SER
1	B	342	LEU
1	B	343	SER
1	B	344	LYS
1	B	346	VAL
1	B	350	GLU

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Mol	Chain	Res	Type
1	B	366	SER
1	B	370	PHE
1	B	379	VAL
1	B	381	SER
1	B	383	LYS
1	B	386	GLN
1	B	416	ARG
1	B	418	ASP
1	B	426	ARG
1	B	432	ARG
1	B	433	GLU
1	B	438	LEU
1	B	469	GLU
1	B	485	GLU
1	B	502	THR
1	B	523	MET
1	B	531	GLU
1	B	533	SER
1	B	534	SER
1	B	569	LYS
1	B	575	GLU
1	B	593	GLU
1	B	633	SER
1	B	640	LEU
1	B	656	LEU
1	B	659	ARG
1	B	680	LEU
1	B	692	ARG
1	B	705	SER
1	B	709	LEU
1	B	729	LEU
1	B	1129	ASP
1	B	1137	LEU
1	B	1166	SER
1	B	1175	ASP
1	B	1186	ILE
1	C	257	LEU
1	C	259	VAL
1	C	260	ASP
1	C	263	LEU
1	C	282	VAL
1	C	283	MET

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Mol	Chain	Res	Type
1	C	286	LEU
1	C	325	SER
1	C	326	SER
1	C	342	LEU
1	C	343	SER
1	C	344	LYS
1	C	346	VAL
1	C	350	GLU
1	C	366	SER
1	C	370	PHE
1	C	379	VAL
1	C	381	SER
1	C	383	LYS
1	C	386	GLN
1	C	416	ARG
1	C	418	ASP
1	C	426	ARG
1	C	432	ARG
1	C	433	GLU
1	C	438	LEU
1	C	469	GLU
1	C	485	GLU
1	C	502	THR
1	C	523	MET
1	C	531	GLU
1	C	533	SER
1	C	534	SER
1	C	569	LYS
1	C	575	GLU
1	C	593	GLU
1	C	633	SER
1	C	640	LEU
1	C	656	LEU
1	C	659	ARG
1	C	680	LEU
1	C	692	ARG
1	C	705	SER
1	C	709	LEU
1	C	729	LEU
1	C	1129	ASP
1	C	1137	LEU
1	C	1166	SER

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Mol	Chain	Res	Type
1	C	1175	ASP
1	C	1186	ILE
1	D	257	LEU
1	D	259	VAL
1	D	260	ASP
1	D	263	LEU
1	D	282	VAL
1	D	283	MET
1	D	286	LEU
1	D	325	SER
1	D	326	SER
1	D	342	LEU
1	D	343	SER
1	D	344	LYS
1	D	346	VAL
1	D	350	GLU
1	D	366	SER
1	D	370	PHE
1	D	379	VAL
1	D	381	SER
1	D	383	LYS
1	D	386	GLN
1	D	416	ARG
1	D	418	ASP
1	D	426	ARG
1	D	432	ARG
1	D	433	GLU
1	D	438	LEU
1	D	469	GLU
1	D	485	GLU
1	D	502	THR
1	D	523	MET
1	D	531	GLU
1	D	533	SER
1	D	534	SER
1	D	569	LYS
1	D	575	GLU
1	D	593	GLU
1	D	633	SER
1	D	640	LEU
1	D	656	LEU
1	D	659	ARG

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Mol	Chain	Res	Type
1	D	680	LEU
1	D	692	ARG
1	D	705	SER
1	D	709	LEU
1	D	729	LEU
1	D	1129	ASP
1	D	1137	LEU
1	D	1166	SER
1	D	1175	ASP
1	D	1186	ILE
1	E	257	LEU
1	E	259	VAL
1	E	260	ASP
1	E	263	LEU
1	E	282	VAL
1	E	283	MET
1	E	286	LEU
1	E	325	SER
1	E	326	SER
1	E	342	LEU
1	E	343	SER
1	E	344	LYS
1	E	346	VAL
1	E	350	GLU
1	E	366	SER
1	E	370	PHE
1	E	379	VAL
1	E	381	SER
1	E	383	LYS
1	E	386	GLN
1	E	416	ARG
1	E	418	ASP
1	E	426	ARG
1	E	432	ARG
1	E	433	GLU
1	E	438	LEU
1	E	469	GLU
1	E	485	GLU
1	E	502	THR
1	E	523	MET
1	E	531	GLU
1	E	533	SER

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Mol	Chain	Res	Type
1	E	534	SER
1	E	569	LYS
1	E	575	GLU
1	E	593	GLU
1	E	633	SER
1	E	640	LEU
1	E	656	LEU
1	E	659	ARG
1	E	680	LEU
1	E	692	ARG
1	E	705	SER
1	E	709	LEU
1	E	729	LEU
1	E	1129	ASP
1	E	1137	LEU
1	E	1166	SER
1	E	1175	ASP
1	E	1186	ILE
1	F	257	LEU
1	F	259	VAL
1	F	260	ASP
1	F	263	LEU
1	F	282	VAL
1	F	283	MET
1	F	286	LEU
1	F	325	SER
1	F	326	SER
1	F	342	LEU
1	F	343	SER
1	F	344	LYS
1	F	346	VAL
1	F	350	GLU
1	F	366	SER
1	F	370	PHE
1	F	379	VAL
1	F	381	SER
1	F	383	LYS
1	F	386	GLN
1	F	416	ARG
1	F	418	ASP
1	F	426	ARG
1	F	432	ARG

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Mol	Chain	Res	Type
1	F	433	GLU
1	F	438	LEU
1	F	469	GLU
1	F	485	GLU
1	F	502	THR
1	F	523	MET
1	F	531	GLU
1	F	533	SER
1	F	534	SER
1	F	569	LYS
1	F	575	GLU
1	F	593	GLU
1	F	633	SER
1	F	640	LEU
1	F	656	LEU
1	F	659	ARG
1	F	680	LEU
1	F	692	ARG
1	F	705	SER
1	F	709	LEU
1	F	729	LEU
1	F	1129	ASP
1	F	1137	LEU
1	F	1166	SER
1	F	1175	ASP
1	F	1186	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (56) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	306	HIS
1	A	328	ASN
1	A	489	ASN
1	A	550	ASN
1	A	589	GLN
1	A	615	GLN
1	A	624	GLN
1	A	715	GLN
1	A	1136	GLN
1	A	1149	GLN
1	B	306	HIS
1	B	328	ASN

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Mol	Chain	Res	Type
1	B	489	ASN
1	B	550	ASN
1	B	615	GLN
1	B	624	GLN
1	B	1136	GLN
1	B	1149	GLN
1	C	306	HIS
1	C	328	ASN
1	C	489	ASN
1	C	550	ASN
1	C	615	GLN
1	C	624	GLN
1	C	1136	GLN
1	C	1149	GLN
1	D	306	HIS
1	D	328	ASN
1	D	489	ASN
1	D	550	ASN
1	D	589	GLN
1	D	615	GLN
1	D	624	GLN
1	D	715	GLN
1	D	1136	GLN
1	D	1149	GLN
1	E	306	HIS
1	E	328	ASN
1	E	384	GLN
1	E	489	ASN
1	E	550	ASN
1	E	589	GLN
1	E	615	GLN
1	E	624	GLN
1	E	715	GLN
1	E	1136	GLN
1	E	1149	GLN
1	F	306	HIS
1	F	328	ASN
1	F	489	ASN
1	F	550	ASN
1	F	589	GLN
1	F	615	GLN
1	F	624	GLN

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Mol	Chain	Res	Type
1	F	1136	GLN
1	F	1149	GLN

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.

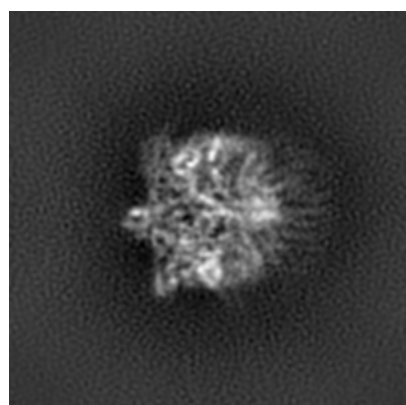
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-9871. These allow visual inspection of the internal detail of the map and identification of artifacts.

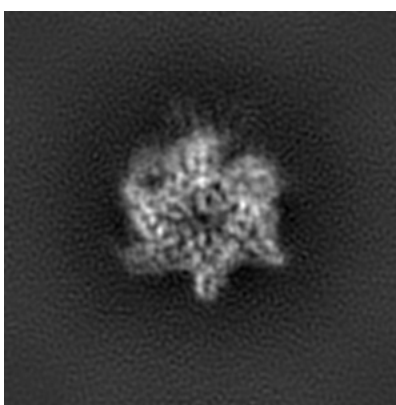
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

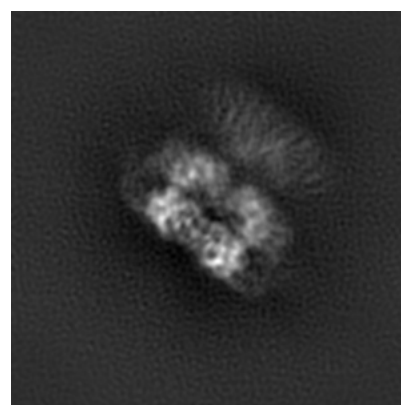
6.1.1 Primary map



X



Y

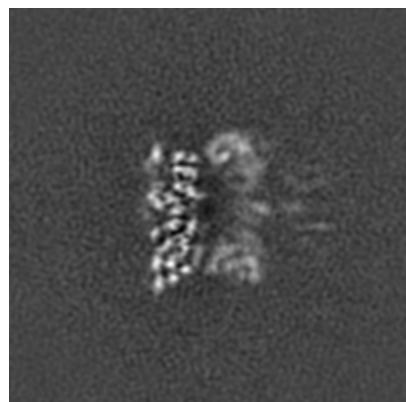


Z

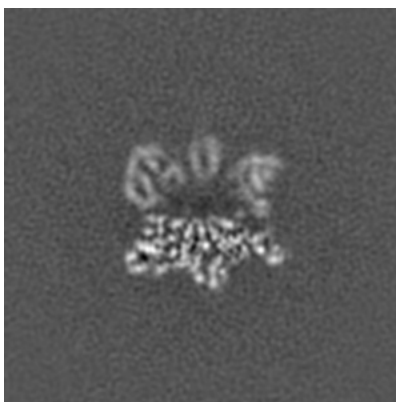
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

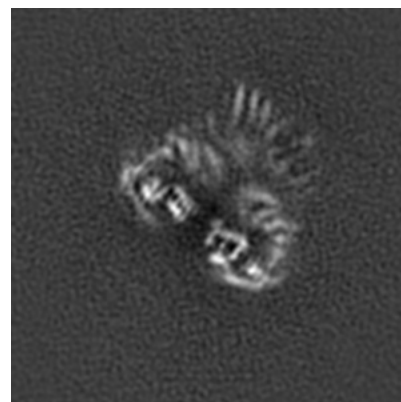
6.2.1 Primary map



X Index: 150



Y Index: 150

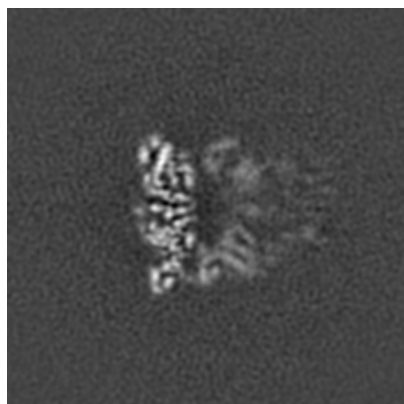


Z Index: 150

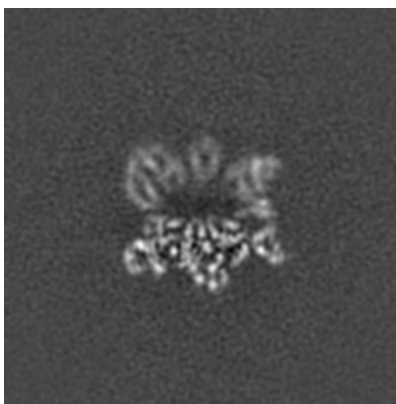
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

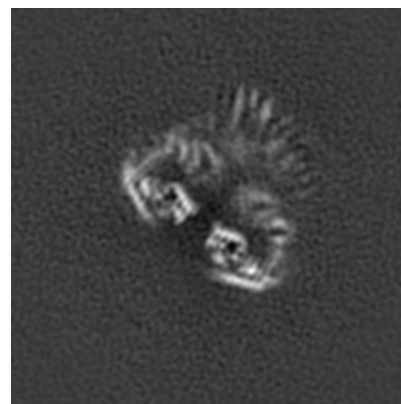
6.3.1 Primary map



X Index: 157



Y Index: 152

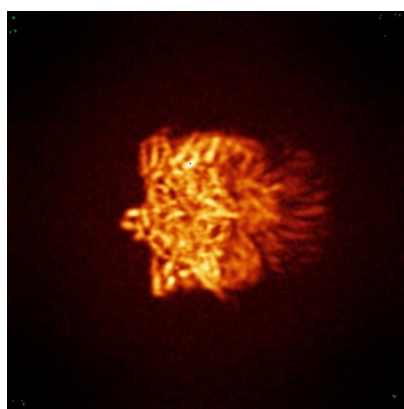


Z Index: 148

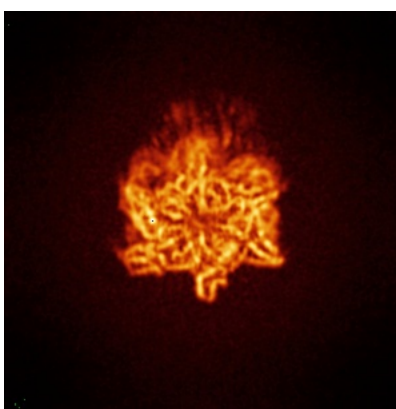
The images above show the largest variance slices of the map in three orthogonal directions.

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

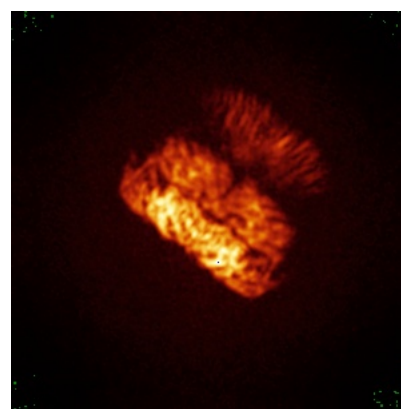
6.4.1 Primary map



X



Y

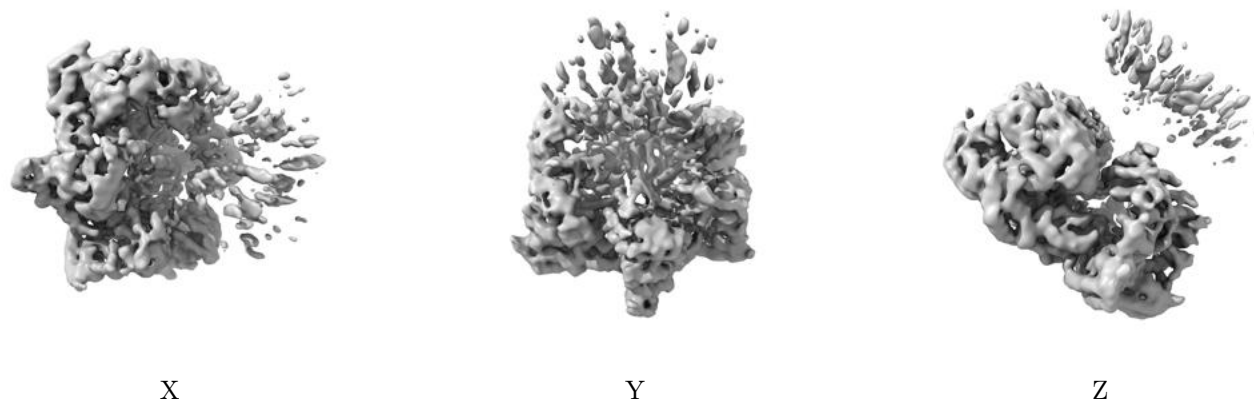


Z

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 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

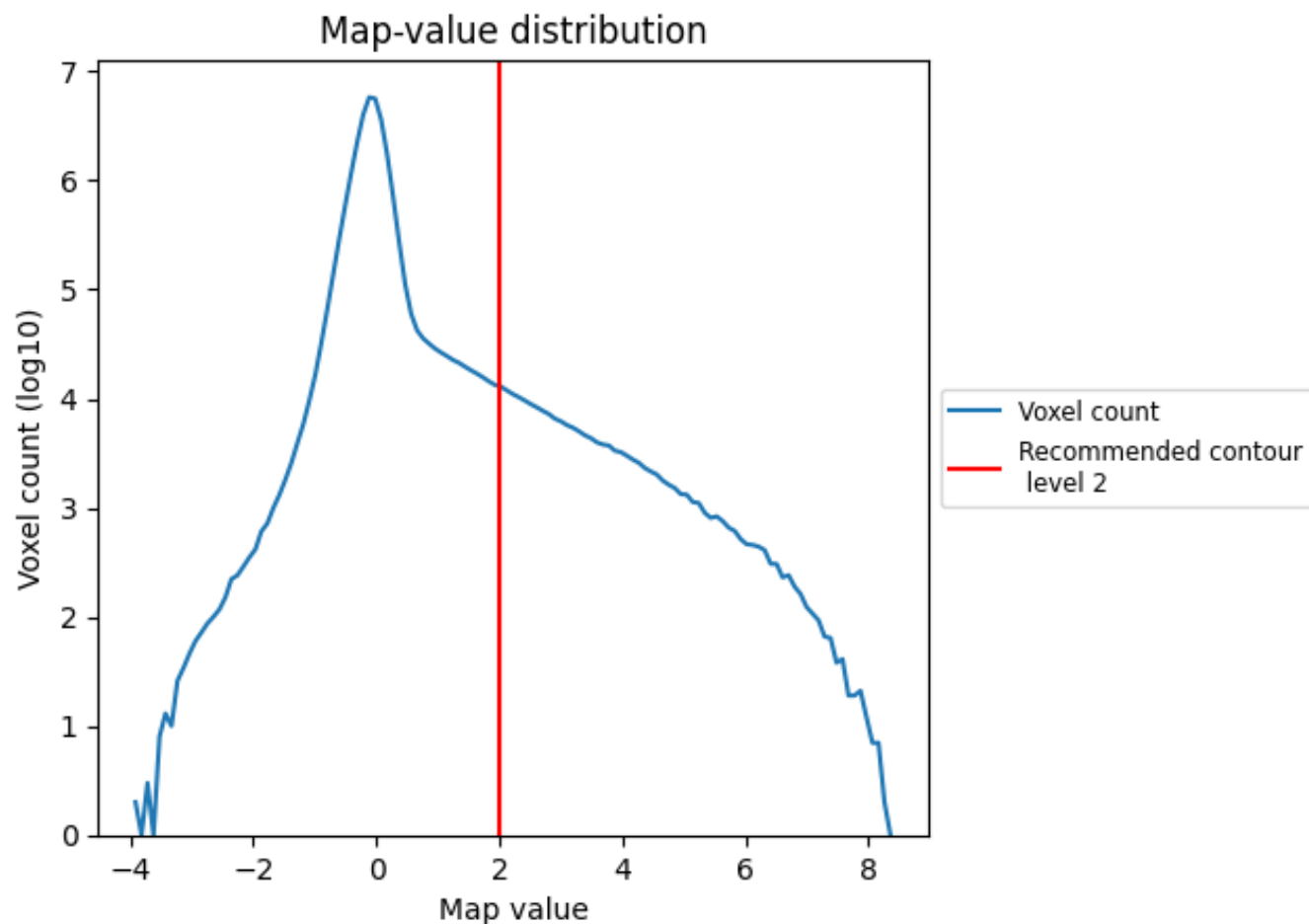
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

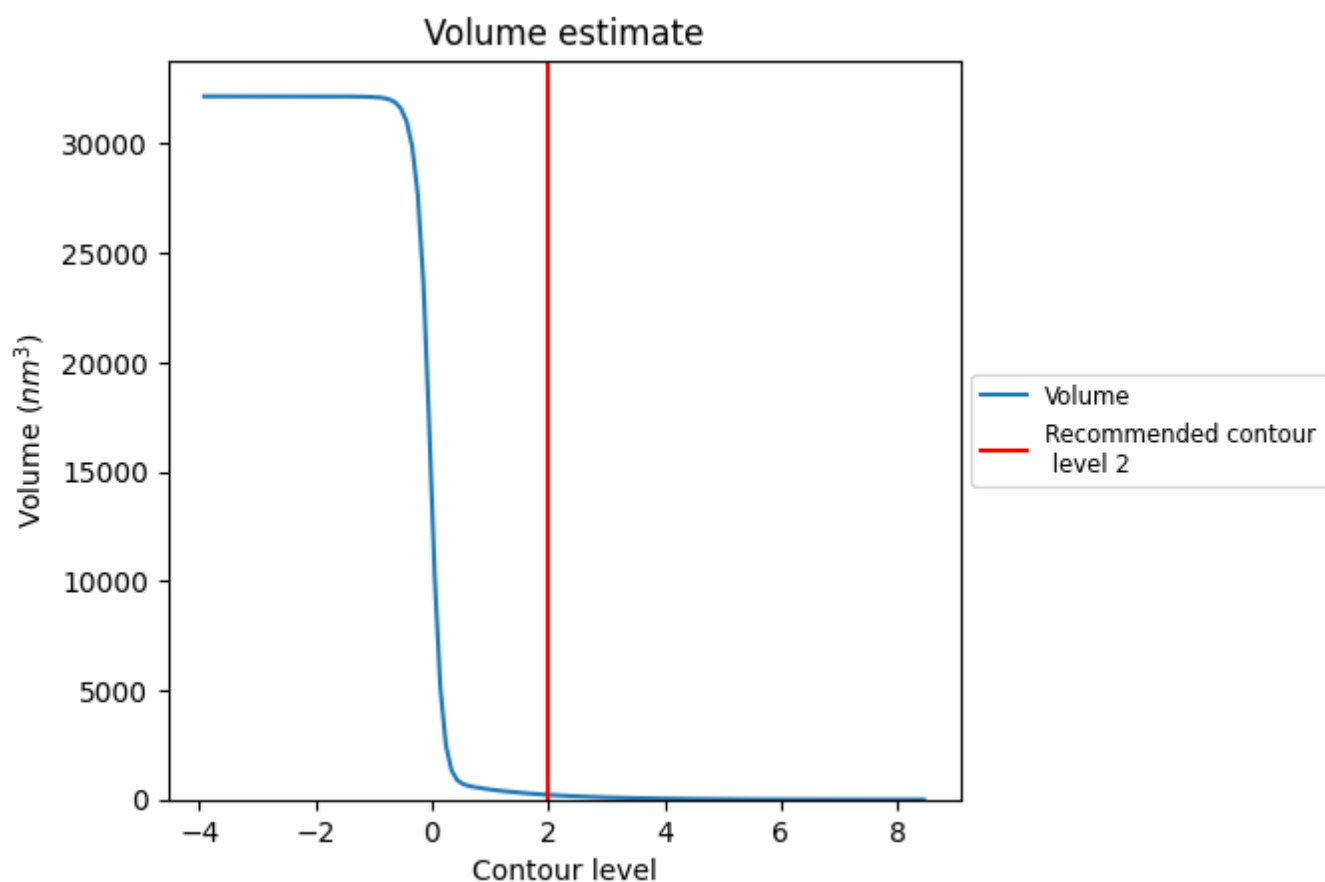
This section contains the results of statistical analysis of the map.

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.

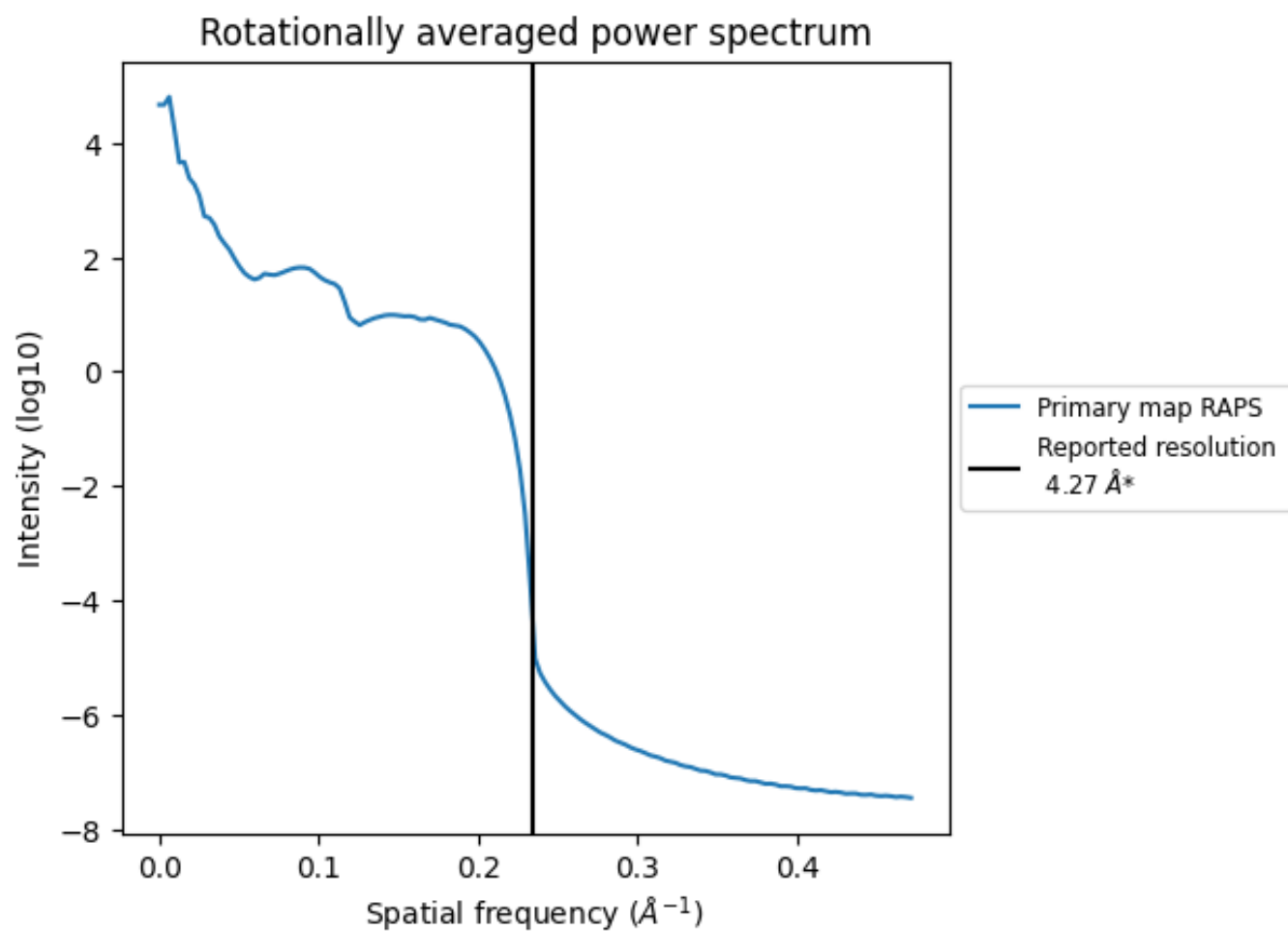
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 215 nm^3 ; this corresponds to an approximate mass of 195 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

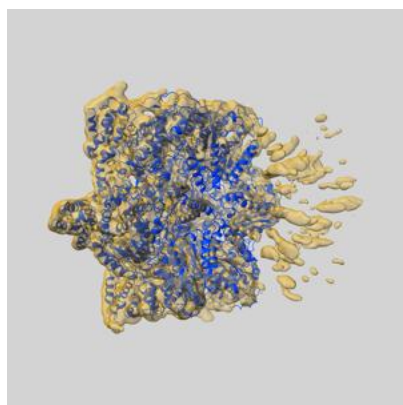
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

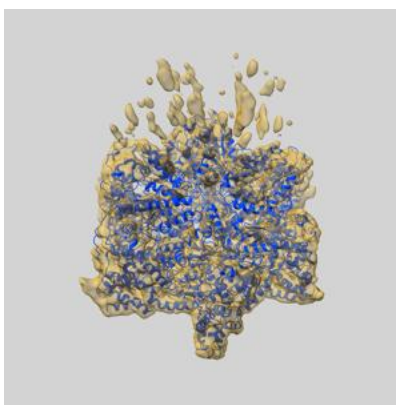
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-9871 and PDB model 6JPU. Per-residue inclusion information can be found in section [3](#) on page [6](#).

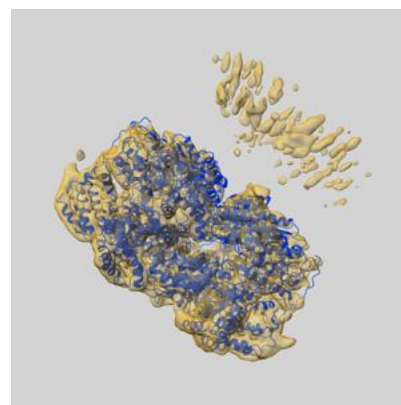
9.1 Map-model overlay [i](#)



X



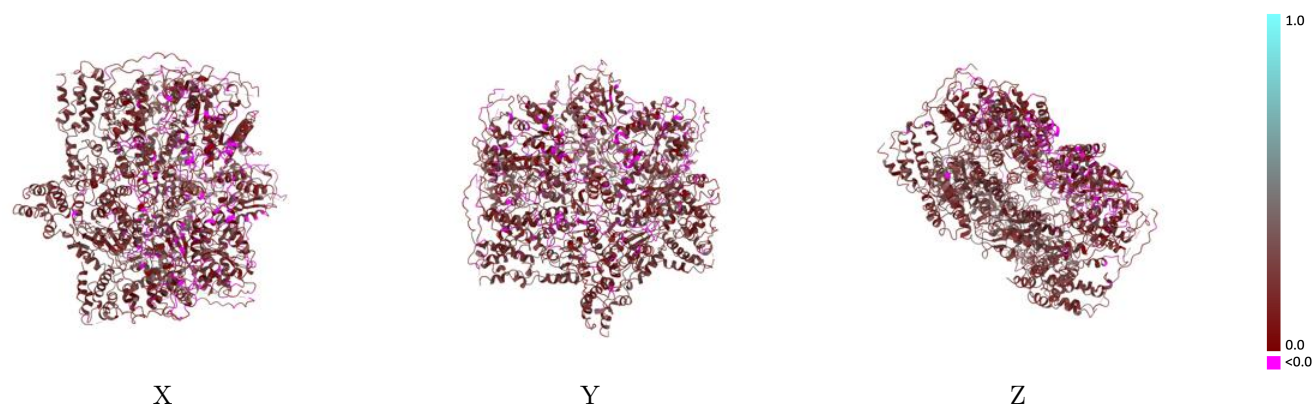
Y



Z

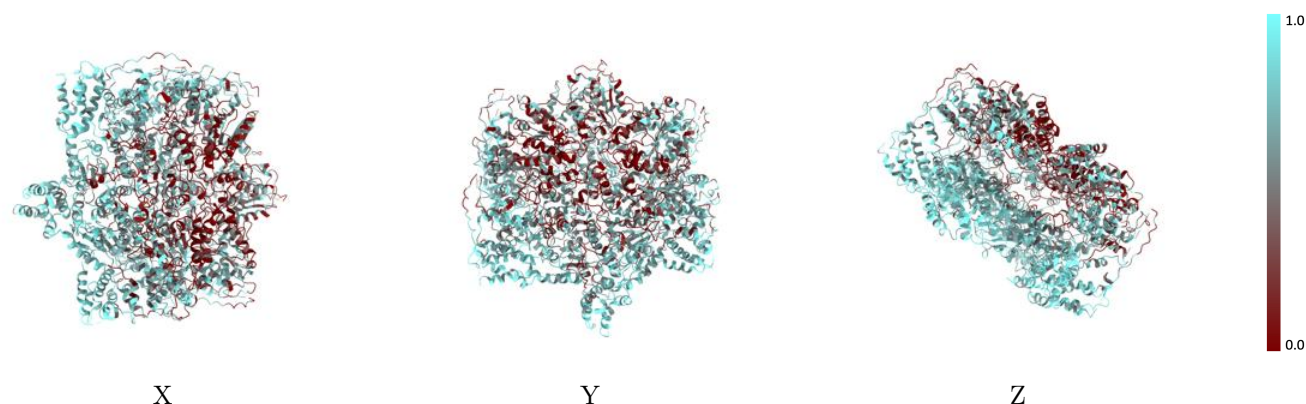
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



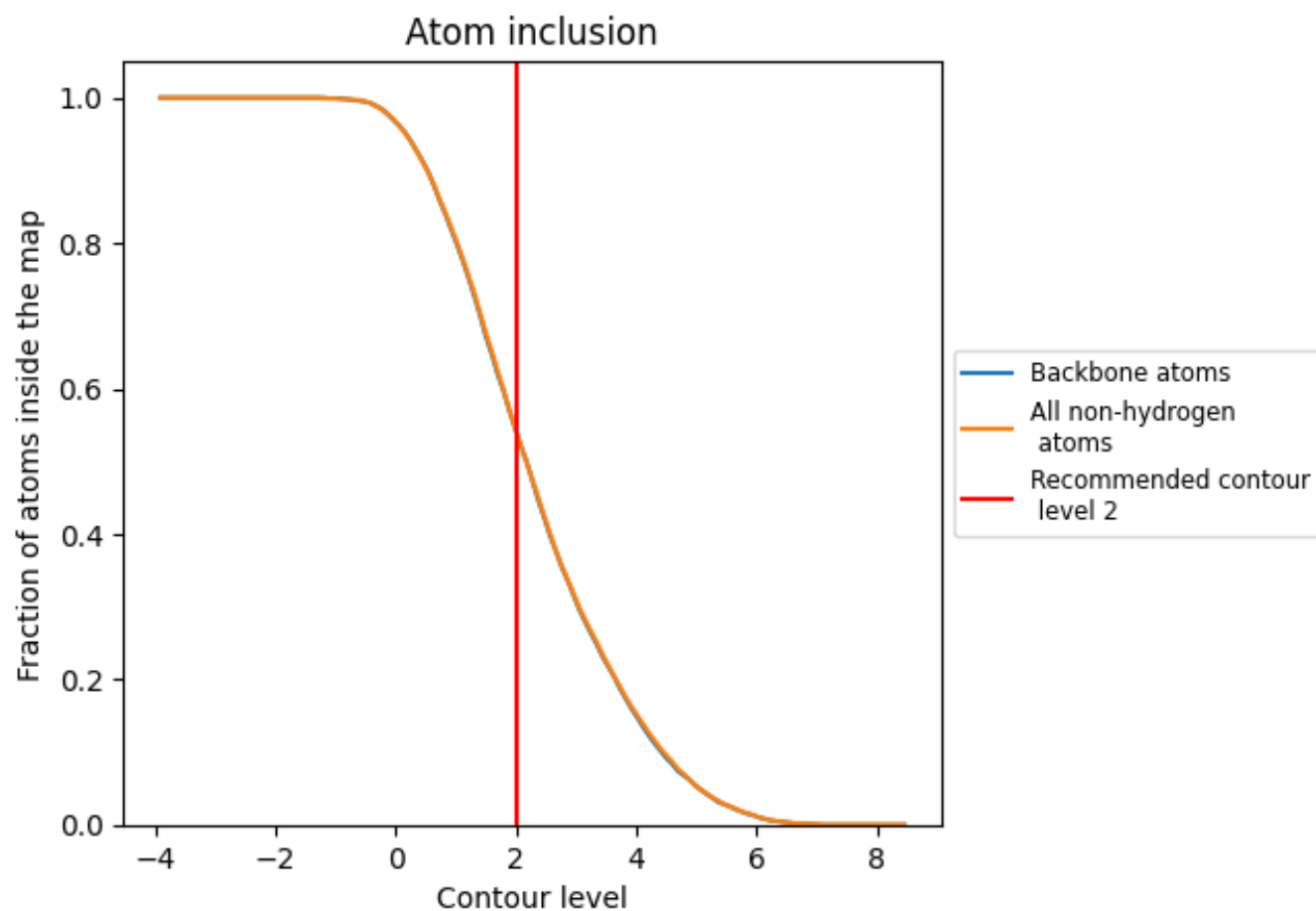
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 54% of all backbone atoms, 54% 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 (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5410	0.1810
A	0.5670	0.1860
B	0.5160	0.1740
C	0.5450	0.1850
D	0.5650	0.1800
E	0.5280	0.1800
F	0.5740	0.1830

1.0

0.0

<0.0