



Full wwPDB EM Validation Report ⓘ

Mar 19, 2024 – 10:31 PM JST

PDB ID : 6JPU
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:

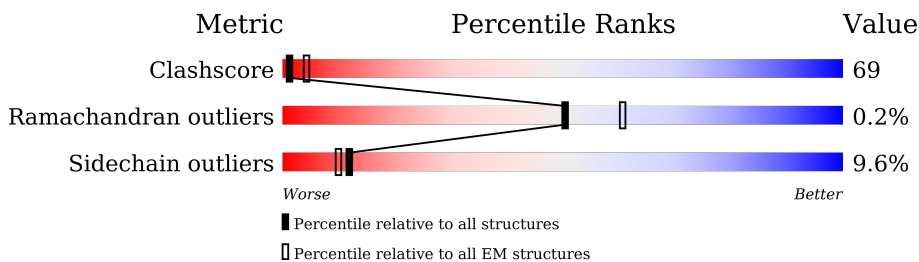
EMDB validation analysis : 0.0.1.dev70
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

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)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	
1	B	1198	
1	C	1198	
1	D	1198	
1	E	1198	
1	F	1198	

2 Entry composition [i](#)

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
			Total	C	H	N	O	S		
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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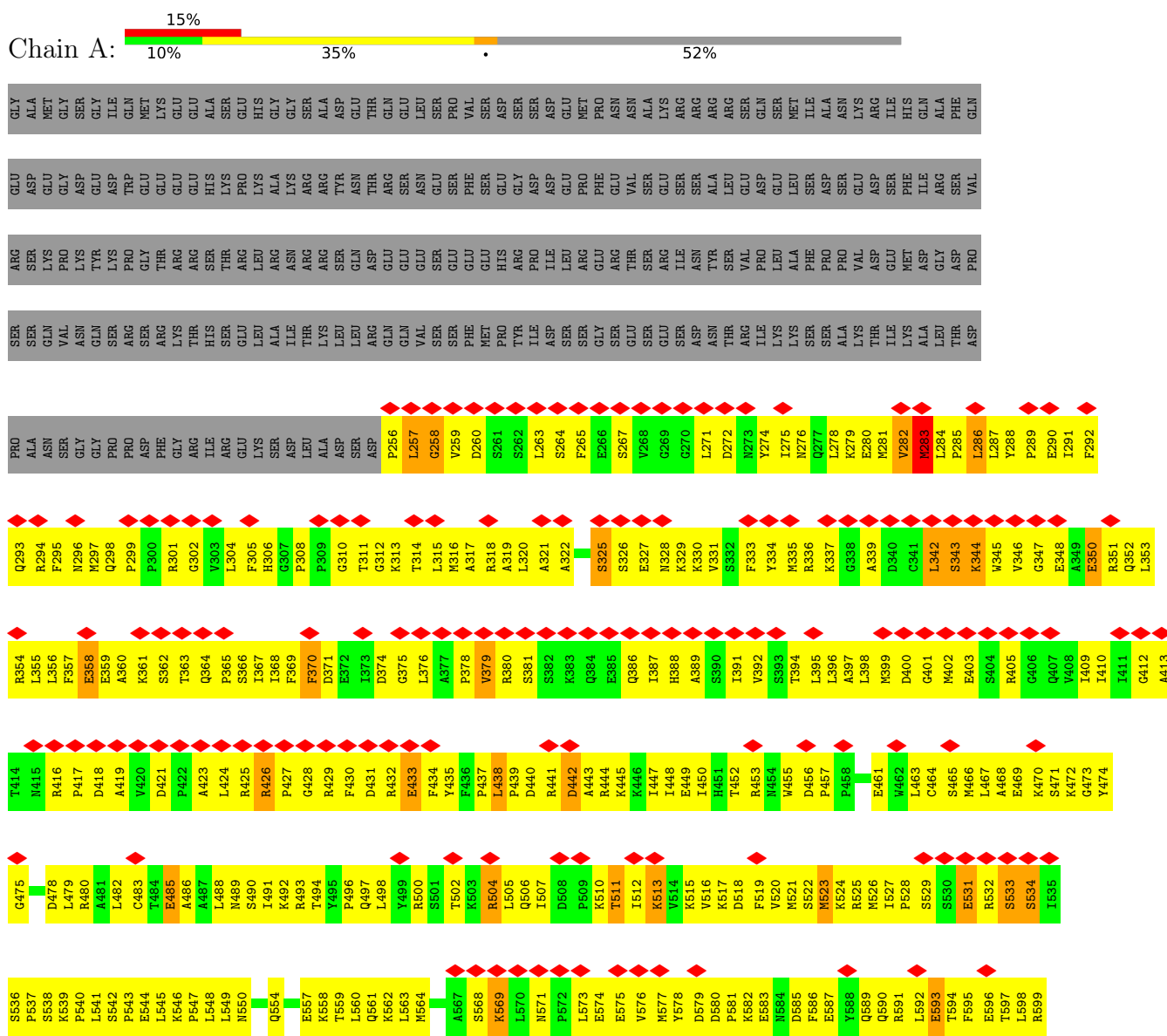
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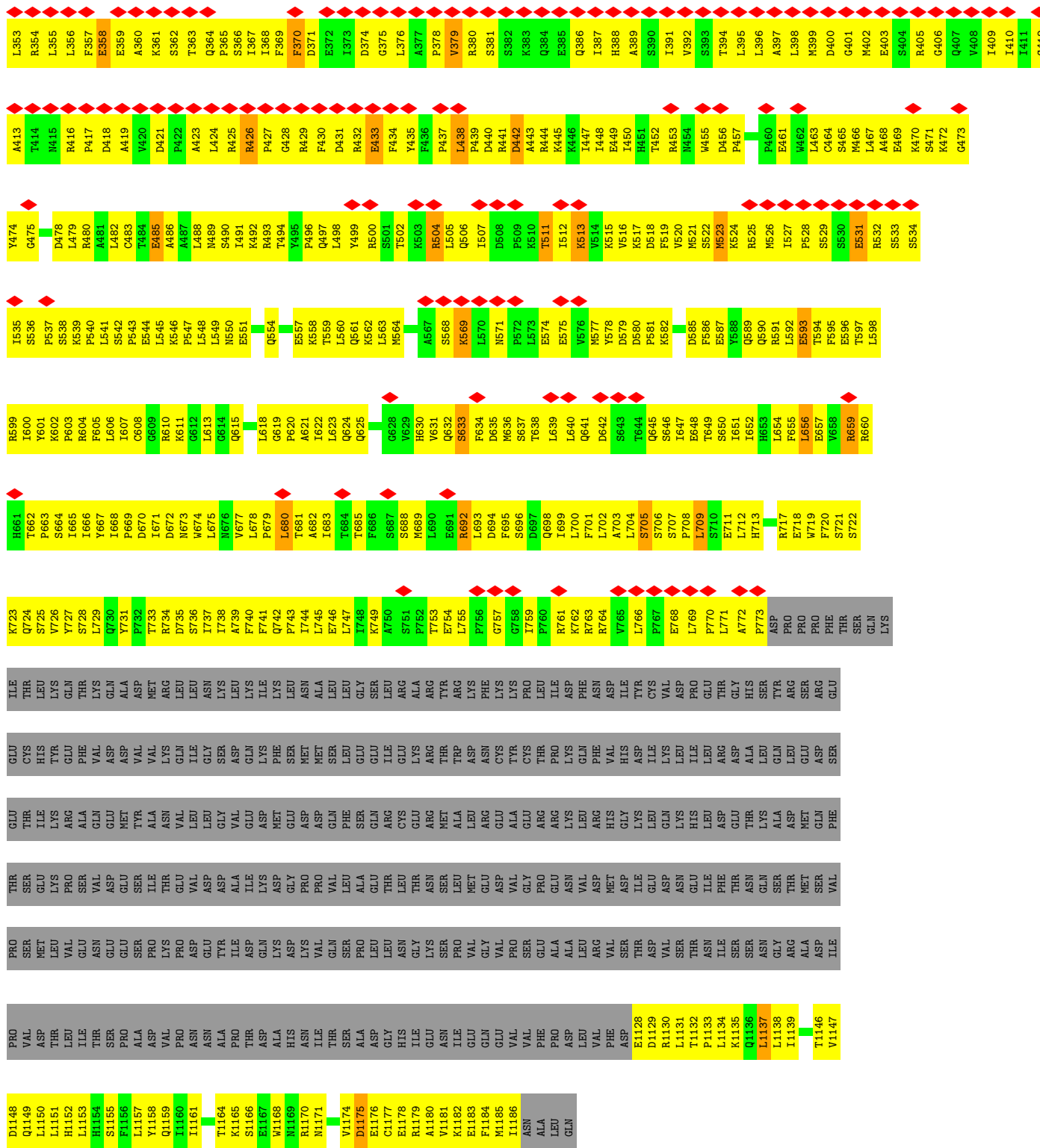
Chain	Residue	Modelled	Actual	Comment	Reference
C	-5	MET	-	expression tag	UNP O14114
C	-4	GLY	-	expression tag	UNP O14114
C	-3	SER	-	expression tag	UNP O14114
C	-2	GLY	-	expression tag	UNP O14114
C	-1	ILE	-	expression tag	UNP O14114
C	0	GLN	-	expression tag	UNP O14114
D	-7	GLY	-	expression tag	UNP O14114
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

3 Residue-property plots

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

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

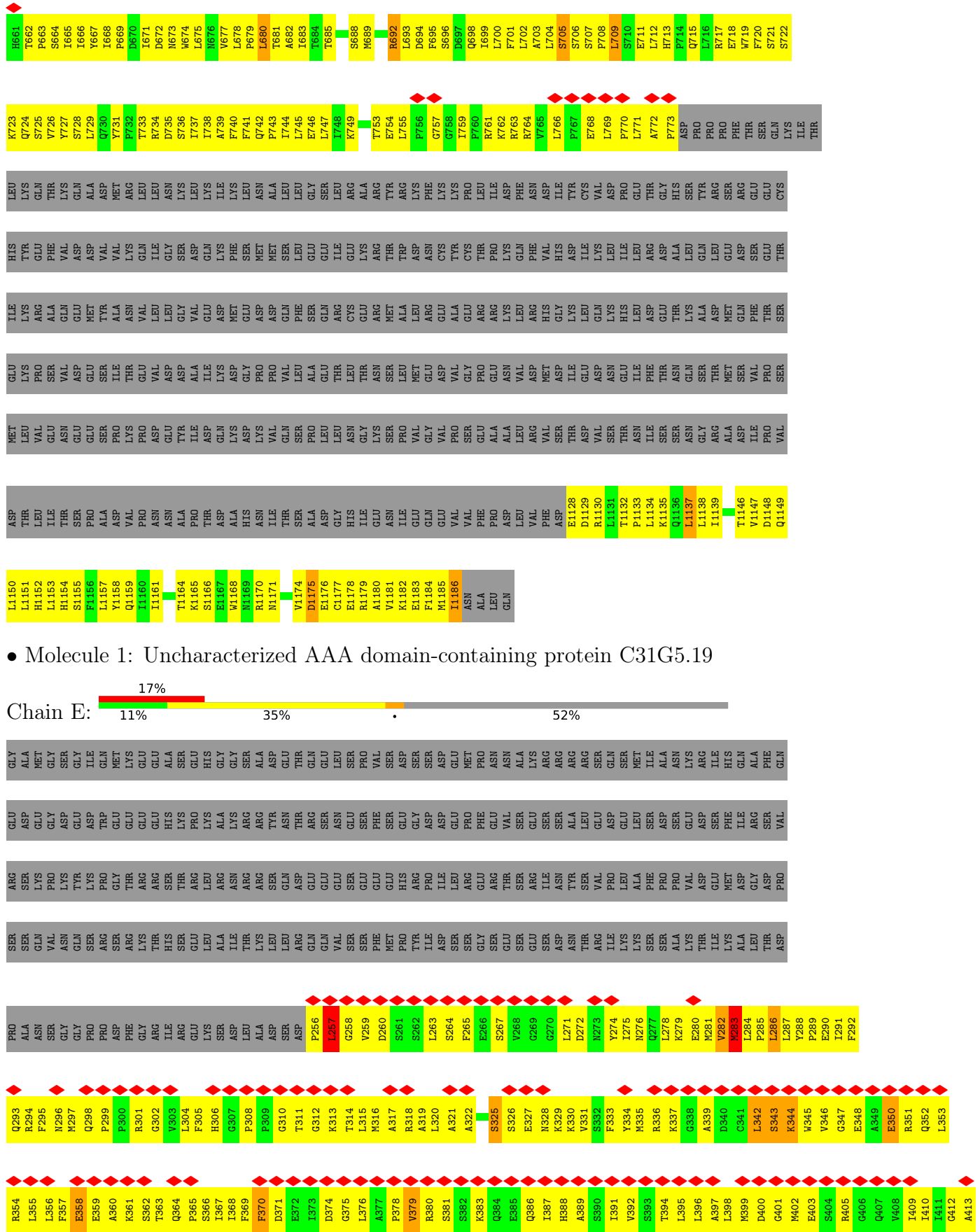




● Molecule 1: Uncharacterized AAA domain-containing protein C31G5.19



GLY
ALA
MET
GLY
SER
GLY
ILE
GLN
MET
LYS
GLU
GLU
ALA
SER
HIS
GLY
GLY
SER
ALA
ASP
GLU
THR
THR
GLN
GLY
LEU
SER
PRO
VAL
SER
SER
ASP
GLY
ASP
GLY
GLN
GLY
MET
PRO
ASN
ASN
ALA
LEU
GLN



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

LEU	E1128
ILE	D1129
THR	R1130
SER	L1131
PRO	T1132
ALA	P1133
ASP	L1134
VAL	K1135
PRO	Q1136
ASN	L1137
ASN	L1138
ALA	I1139
PRO	T1146
THR	V1147
ASP	D1148
ALA	Q1149
HIS	L1150
ASN	L1151
ILE	
THR	
SER	
ALA	
ASP	
GLY	
HIS	
ILE	
GLU	
ASN	
ILE	
GLU	
GLN	
GLU	
VAL	
VAL	
PHE	
PRO	
LEU	
ASP	
LEU	
VAL	
PHE	
ASP	
E1128	
D1129	
R1130	
L1131	
T1132	
P1133	
L1134	
K1135	
Q1136	
L1137	
L1138	
I1139	
T1146	
V1147	
D1148	
Q1149	
L1150	
L1151	
H1152	
L1153	
H1154	
S1155	
F1156	
L1157	
Y1158	
Q1159	
I1160	
I1161	
T1164	
K1165	
S1166	
E1167	
W1168	
N1169	
R1170	
N1171	
V1174	
D1175	
E1176	
C1177	
E1178	
R1179	
A1180	
V1181	
K1182	
E1183	
F1184	
M1185	
I1186	
ASN	
ALA	
LEU	
GLN	

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	2.0	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 [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.37	1/4734 (0.0%)	0.57	2/6411 (0.0%)
1	B	0.37	1/4734 (0.0%)	0.57	2/6411 (0.0%)
1	C	0.37	1/4734 (0.0%)	0.57	2/6411 (0.0%)
1	D	0.37	1/4734 (0.0%)	0.57	2/6411 (0.0%)
1	E	0.37	1/4734 (0.0%)	0.57	2/6411 (0.0%)
1	F	0.37	1/4734 (0.0%)	0.57	2/6411 (0.0%)
All	All	0.37	6/28404 (0.0%)	0.57	12/38466 (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

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	379	VAL	CB-CG2	6.42	1.66	1.52
1	F	379	VAL	CB-CG2	6.42	1.66	1.52
1	B	379	VAL	CB-CG2	6.42	1.66	1.52
1	A	379	VAL	CB-CG2	6.42	1.66	1.52
1	C	379	VAL	CB-CG2	6.40	1.66	1.52
1	D	379	VAL	CB-CG2	6.40	1.66	1.52

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	442	ASP	CB-CG-OD2	6.70	124.33	118.30
1	F	442	ASP	CB-CG-OD2	6.67	124.30	118.30
1	C	442	ASP	CB-CG-OD2	6.64	124.28	118.30
1	B	442	ASP	CB-CG-OD2	6.63	124.27	118.30
1	E	442	ASP	CB-CG-OD2	6.61	124.25	118.30
1	D	442	ASP	CB-CG-OD2	6.60	124.24	118.30
1	B	283	MET	CA-CB-CG	6.37	124.13	113.30
1	E	283	MET	CA-CB-CG	6.37	124.14	113.30
1	D	283	MET	CA-CB-CG	6.37	124.12	113.30
1	F	283	MET	CA-CB-CG	6.36	124.11	113.30
1	C	283	MET	CA-CB-CG	6.36	124.11	113.30
1	A	283	MET	CA-CB-CG	6.34	124.08	113.30

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 [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4628	435	4700	670	0
1	B	4628	435	4700	700	0
1	C	4628	435	4700	690	0
1	D	4628	435	4700	655	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	4628	435	4700	661	0
1	F	4628	435	4700	656	0
All	All	27768	2610	28200	3877	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 69.

All (3877) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:440:ASP:HA	1:E:472:LYS:HE2	1.40	1.04
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:C:440:ASP:HA	1:C:472:LYS:HE2	1.40	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:D:440:ASP:HA	1:D:472:LYS:HE2	1.40	1.01
1:F:496:PRO:HD2	1:F:766:LEU:HD22	1.45	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:A:515:LYS:HD3	1:F:583:GLU:HG3	1.46	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:A:482:LEU:HA	1:A:526:MET:HE3	1.46	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:482:LEU:HA	1:C:526:MET:HE3	1.46	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:D:482:LEU:HA	1:D:526:MET:HE3	1.49	0.92
1:D:646:SER:HG	1:D:649:THR:HG1	0.99	0.92
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:482:LEU:HA	1:B:526:MET:HE3	1.51	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:E:482:LEU:HA	1:E:526:MET:HE3	1.50	0.90
1:A:579:ASP:H	1:B:764:ARG:HG2	1.36	0.90
1:F:482:LEU:HA	1:F:526:MET:HE3	1.53	0.90
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:HH2	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:359:GLU:O	1:B:363:THR:OG1	2.00	0.79
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:297:MET:HE2	1:C:454:ASN:HB2	1.64	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:F:482:LEU:HD23	1:F:526:MET:HE3	1.68	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: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:636:MET:HA	1:F:639:LEU:HB2	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:A:283:MET:HE3	1:A:287:LEU:HD22	1.69	0.74
1:C:527:ILE:O	1:C:532:ARG:NH1	2.20	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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:652:ILE:O	1:E:656:LEU:HB2	1.89	0.72
1:E:663:PRO:HG3	1:E:698:GLN:HE21	1.54	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:482:LEU:HD23	1:B:526:MET:HE3	1.72	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:723:LYS:HZ2	1:E:1186:ILE:HD11	1.56	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:E:482:LEU:HD23	1:E:526:MET:HE3	1.73	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:283:MET:HE3	1:B:287:LEU:HD22	1.73	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:E:646:SER:OG	1:E:649:THR:OG1	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:672:ASP:OD2	1:B:706:SER:N	2.27	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: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: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
1:C:464:CYS:HA	1:C:466:MET:H	1.60	0.67
1:E:542:SER:OG	1:E:545:LEU:HG	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:283:MET:CE	1:C:287:LEU:HD22	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: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:283:MET:CE	1:D:287:LEU:HD22	2.26	0.66
1:D:482:LEU:HD23	1:D:526:MET:HE3	1.76	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:B:283:MET:CE	1:B:287:LEU:HD22	2.26	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:656:LEU:HA	1:F:659:ARG:HB2	1.78	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:283:MET:CE	1:E:287:LEU:HD22	2.26	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: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
1:C:734:ARG:HG3	1:C:1139:ILE:HD11	1.78	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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:283:MET:CE	1:F:287:LEU:HD22	2.26	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
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: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:543:PRO:HA	1:D:546:LYS:CD	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:485:GLU:HB2	1:C:526:MET:HE1	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: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: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
1:D:301:ARG:HG3	1:D:405:ARG:HD2	1.78	0.65
1:E:301:ARG:HG3	1:E:405:ARG:HD2	1.78	0.65
1:E:485:GLU:HB2	1:E:526:MET:HE1	1.79	0.65
1:E:630:HIS:HB2	1:E:662:THR:HG21	1.78	0.65
1:A:283:MET:CE	1:A:287:LEU:HD22	2.26	0.64
1:A:485:GLU:HB2	1:A:526:MET:HE1	1.78	0.64
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:ARG:NH2	1:A:513:LYS:O	2.29	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: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:D:485:GLU:HB2	1:D:526:MET:HE1	1.78	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:E:581:PRO:HD2	1:E:582:LYS:HZ3	1.63	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:B:485:GLU:HB2	1:B:526:MET:HE1	1.79	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
1:E:1175:ASP:HA	1:E:1178:GLU:CD	2.19	0.63
1:F:1175:ASP:HA	1:F:1178:GLU:CD	2.19	0.63
1:A:1148:ASP:N	1:A:1148:ASP:OD1	2.30	0.63
1:A:1175:ASP:HA	1:A:1178:GLU:CD	2.19	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:1175:ASP:HA	1:D:1178:GLU:CD	2.19	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:D:581:PRO:HD2	1:D:582:LYS:HZ3	1.63	0.63
1:F:449:GLU:O	1:F:453:ARG:NH1	2.31	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
1:B:337:LYS:HG3	1:B:371:ASP:CB	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:485:GLU:HB2	1:F:526:MET:HE1	1.80	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:B:1175:ASP:HA	1:B:1178:GLU:CD	2.19	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:478:ASP:OD2	1:B:532:ARG:NH2	2.32	0.62
1:B:482:LEU:HA	1:B:526:MET:CE	2.26	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:1175:ASP:HA	1:C:1178:GLU:CD	2.19	0.62
1:D:283:MET:HE3	1:D:287:LEU:HD22	1.80	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:F:581:PRO:HD2	1:F:582:LYS:HZ3	1.64	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:D:482:LEU:HA	1:D:526:MET:CE	2.26	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: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:297:MET:CE	1:C:454:ASN:HB2	2.29	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:581:PRO:HD2	1:C:582:LYS:HZ3	1.64	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: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:482:LEU:HA	1:E:526:MET:CE	2.26	0.61
1:E:587:GLU:O	1:E:591:ARG:HG2	2.01	0.61
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:334:TYR:OH	1:C:363:THR:OG1	2.18	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:581:PRO:HD2	1:A:582:LYS:HZ3	1.66	0.60
1:A:1132:THR:HA	1:A:1135:LYS:CD	2.30	0.60
1:B:297:MET:HE1	1:C:455:TRP:CZ3	2.37	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:482:LEU:HA	1:C:526:MET:CE	2.26	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:709:LEU:HA	1:F:712:LEU:HD11	1.85	0.59
1:A:580:ASP:HB2	1:A:582:LYS:HZ1	1.68	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:A:482:LEU:HD23	1:A:526:MET:HE3	1.83	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
1:A:482:LEU:HA	1:A:526:MET:CE	2.26	0.59
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:C:482:LEU:HD23	1:C:526:MET:HE3	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:283:MET:HE3	1:F:287:LEU:HD22	1.85	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:490:SER:HG	1:F:493:ARG:HH12	1.52	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:482:LEU:HD23	1:D:526:MET:CE	2.34	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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:604:ARG:NE	1:B:719:TRP:O	2.36	0.57
1:C:482:LEU:HD23	1:C:526:MET:CE	2.34	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: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: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: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
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:A:482:LEU:HD23	1:A:526:MET:CE	2.34	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:482:LEU:HD23	1:B:526:MET:CE	2.34	0.56
1:B:540:PRO:N	1:B:624:GLN:HG2	2.20	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:283:MET:HE3	1:C:287:LEU:HD22	1.86	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:1176:GLU:O	1:E:1179:ARG:HG3	2.05	0.56
1:F:482:LEU:HD23	1:F:526:MET:CE	2.34	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:C:482:LEU:CA	1:C:526:MET:HE3	2.28	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: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:490:SER:HG	1:A:493:ARG:HH12	1.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:482:LEU:HD23	1:E:526:MET:CE	2.34	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:490:SER:HG	1:D:493:ARG:HH12	1.54	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:611:LYS:HE3	1:B:706:SER:OG	2.06	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:536:SER:O	1:F:539:LYS:NZ	2.29	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: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: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:283:MET:HE3	1:E:287:LEU:HD22	1.88	0.55
1:E:579:ASP:OD2	1:F:515:LYS:NZ	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:482:LEU:CA	1:A:526:MET:HE3	2.28	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:744:ILE:HA	1:F:747:LEU:HD12	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:D:392:VAL:HA	1:D:395:LEU:HD21	1.88	0.54
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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:406:GLY:C	1:C:256:PRO:HB2	2.29	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
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:490:SER:HG	1:B:493:ARG:HH12	1.55	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:568:SER:C	1:D:569:LYS:HD3	2.30	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
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:N	1:C:569:LYS:HD3	2.23	0.52
1:C:610:ARG:NH1	1:C:610:ARG:HA	2.24	0.52
1:D:640:LEU:HD13	1:D:647:ILE:HD13	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:A:586:PHE:HB3	1:B:466:MET:HE1	1.91	0.52
1:B:310:GLY:C	1:B:475:GLY:HA3	2.30	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:E:310:GLY:C	1:E:475:GLY:HA3	2.30	0.52
1:F:310:GLY:C	1:F:475:GLY:HA3	2.30	0.52
1:A:310:GLY:C	1:A:475:GLY:HA3	2.30	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:449:GLU:HB3	1:C:453:ARG:HH22	1.73	0.52
1:D:310:GLY:C	1:D:475:GLY:HA3	2.30	0.52
1:D:563:LEU:HD11	1:D:724:GLN:O	2.09	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: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:310:GLY:C	1:C:475:GLY:HA3	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:F:334:TYR:OH	1:F:359:GLU:O	2.28	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:568:SER:C	1:B:569:LYS:HD3	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:568:SER:C	1:E:569:LYS:HD3	2.30	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: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
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:568:SER:C	1:C:569:LYS:HD3	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:568:SER:C	1:A:569:LYS:HD3	2.30	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:568:SER:C	1:F:569:LYS:HD3	2.30	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:486:ALA:HB2	1:E:522:SER:OG	2.09	0.51
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:334:TYR:OH	1:E:359:GLU:O	2.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:D:441:ARG:C	1:D:444:ARG:HB3	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:496:PRO:HB2	1:A:500:ARG:HH11	1.76	0.50
1:B:441:ARG:C	1:B:444:ARG:HB3	2.32	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:441:ARG:C	1:E:444:ARG:HB3	2.32	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:482:LEU:HD22	1:A:523:MET:HE2	1.93	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
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:482:LEU:CA	1:D:526:MET:HE3	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:482:LEU:CA	1:E:526:MET:HE3	2.33	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:441:ARG:C	1:A:444:ARG:HB3	2.32	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: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:336:ARG:C	1:E:337:LYS:HD2	2.33	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
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:C:580:ASP:HB2	1:C:582:LYS:HZ1	1.78	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:441:ARG:C	1:F:444:ARG:HB3	2.32	0.49
1:F:444:ARG:CZ	1:F:472:LYS:HA	2.43	0.49
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: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: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:441:ARG:C	1:C:444:ARG:HB3	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:444:ARG:CZ	1:D:472:LYS:HA	2.43	0.49
1:D:482:LEU:HD22	1:D:523:MET:HE2	1.95	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:336:ARG:C	1:F:337:LYS:HD2	2.33	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:689:MET:SD	1:F:692:ARG:HG3	2.52	0.49
1:A:336:ARG:C	1:A:337:LYS:HD2	2.33	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: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:336:ARG:C	1:C:337:LYS:HD2	2.33	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1182:LYS:HA	1:D:1185:MET:HE1	1.95	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: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: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:336:ARG:C	1:B:337:LYS:HD2	2.33	0.48
1:B:505:LEU:HB3	1:B:771:LEU:HD13	1.95	0.48
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:336:ARG:C	1:D:337:LYS:HD2	2.33	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
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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:482:LEU:CA	1:B:526:MET:HE3	2.33	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:ARG:HE	1:A:515:LYS:HE3	1.79	0.47
1:A:1182:LYS:HA	1:A:1185:MET:HE1	1.96	0.47
1:B:318:ARG:NH1	1:B:337:LYS:HE2	2.28	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:334:TYR:OH	1:D:359:GLU:O	2.28	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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:482:LEU:HD22	1:B:523:MET:HE2	1.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:607:ILE:HB	1:E:704:LEU:HB2	1.95	0.47
1:E:1182:LYS:HA	1:E:1185:MET:HE1	1.96	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
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:F:1182:LYS:HA	1:F:1185:MET:HE1	1.95	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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: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:709:LEU:O	1:C:710:SER:OG	2.26	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:707:SER:OG	1:D:711:GLU:HG3	2.14	0.46
1:E:580:ASP:HB2	1:E:582:LYS:HZ3	1.80	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:B:1182:LYS:HA	1:B:1185:MET:HE1	1.96	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:D:723:LYS:NZ	1:E:1183:GLU:OE2	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:564:MET:HE2	1:C:564:MET:HA	1.96	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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:723:LYS:NZ	1:E:1186:ILE:HD11	2.27	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:482:LEU:HD22	1:E:523:MET:HE2	1.98	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:330:LYS:HD3	1:A:330:LYS:HA	1.82	0.46
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:F:680:LEU:HD13	1:F:683:ILE:HD12	1.98	0.45
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: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:D:334:TYR:OH	1:D:363:THR:OG1	2.18	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:580:ASP:HB2	1:F:582:LYS:HZ1	1.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:482:LEU:CA	1:F:526:MET:HE3	2.36	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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:463:LEU:C	1:F:466:MET:HG2	2.38	0.45
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:689:MET:O	1:C:692:ARG:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:761:ARG:HA	1:C:761:ARG:NE	2.32	0.44
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:463:LEU:C	1:D:466:MET:HG2	2.38	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:467:LEU:HA	1:E:470:LYS:HZ1	1.80	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:463:LEU:C	1:C:466:MET:HG2	2.38	0.44
1:C:474:TYR:HB2	1:C:479:LEU:HD21	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:311:THR:HG22	1:A:438:LEU:HD13	1.99	0.44
1:A:463:LEU:C	1:A:466:MET:HG2	2.38	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: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: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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:C:1182:LYS:HA	1:C:1185:MET:HE2	2.00	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:C:492:LYS:HZ3	1:C:498:LEU:HB2	1.82	0.44
1:C:1182:LYS:HA	1:C:1185:MET:HE1	1.98	0.44
1:D:311:THR:HG22	1:D:438:LEU:HD13	1.99	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:761:ARG:NE	1:A:761:ARG:HA	2.32	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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: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
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: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:463:LEU:C	1:B:466:MET:HG2	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:463:LEU:C	1:E:466:MET:HG2	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:564:MET:HA	1:F:564:MET:HE2	2.00	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
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:482:LEU:HD22	1:F:523:MET:HE2	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:527:ILE:HG13	1:F:532:ARG:HH11	1.84	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: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
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:580:ASP:HB2	1:D:582:LYS:HZ3	1.82	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:467:LEU:HA	1:F:470:LYS:HZ3	1.82	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:445:LYS:HE2	1:C:449:GLU:CD	2.40	0.42
1:C:488:LEU:O	1:C:491:ILE:HB	2.20	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: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:F:445:LYS:HE2	1:F:449:GLU:CD	2.40	0.42
1:A:444:ARG:CG	1:A:468:ALA:HB1	2.49	0.42
1:A:445:LYS:HE2	1:A:449:GLU:CD	2.40	0.42
1:B:378:PRO:HG2	1:B:388:HIS:CE1	2.55	0.42
1:B:445:LYS:HE2	1:B:449:GLU:CD	2.40	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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
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: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:467:LEU:HA	1:F:470:LYS:HZ1	1.83	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:HA	1:A:657:GLU:OE2	2.20	0.42
1:A:709:LEU:O	1:A:710:SER:OG	2.26	0.42
1:A:743:PRO:HA	1:A:746:GLU:OE1	2.19	0.42
1:C:630:HIS:O	1:C:664:SER:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:492:LYS:HZ3	1:A:498:LEU:HB2	1.84	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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:518:ASP:HA	1:D:521:MET:HG3	2.00	0.42
1:D:657:GLU:HA	1:D:657:GLU:OE2	2.20	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:445:LYS:HE2	1:E:449:GLU:CD	2.40	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:544:GLU:H	1:A:544:GLU:CD	2.22	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
1:D:395:LEU:HD12	1:D:396:LEU:N	2.35	0.42
1:D:492:LYS:HZ3	1:D:498:LEU:HB2	1.84	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:492:LYS:HZ3	1:F:498:LEU:HB2	1.85	0.42
1:F:592:LEU:HD12	1:F:593:GLU:N	2.35	0.42
1:F:689:MET:HB3	1:F:689:MET:HE3	1.97	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:689:MET:HB3	1:B:689:MET:HE3	1.95	0.41
1:B:698:GLN:OE1	1:B:698:GLN:N	2.48	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:544:GLU:H	1:F:544:GLU:CD	2.22	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
1:B:1153:LEU:HD21	1:B:1184:PHE:CE2	2.55	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:444:ARG:NH2	1:D:472:LYS:HD2	2.35	0.41
1:D:445:LYS:HE2	1:D:449:GLU:CD	2.40	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:564:MET:HA	1:A:564:MET:HE2	2.01	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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:C:622:ILE:HD11	1:C:702:LEU:HD11	2.01	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:E:1182:LYS:HA	1:E:1185:MET:HE2	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:280:GLU:C	1:A:284:LEU:HD23	2.41	0.41
1:A:312:GLY:O	1:A:313:LYS:NZ	2.38	0.41
1:A:331:VAL:HA	1:A:365:PRO:O	2.20	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:280:GLU:C	1:B:284:LEU:HD23	2.41	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: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
1:B:621:ALA:HA	1:B:624:GLN:HB2	2.03	0.41
1:B:1182:LYS:HA	1:B:1185:MET:HE2	2.02	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:482:LEU:HD22	1:C:523:MET:HE1	2.02	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:544:GLU:H	1:D:544:GLU:CD	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:543:PRO:HD2	1:E:544:GLU:OE1	2.21	0.41
1:E:544:GLU:H	1:E:544:GLU:CD	2.22	0.41
1:E:712:LEU:H	1:E:717:ARG:NH1	2.19	0.41
1:F:280:GLU:C	1:F:284:LEU:HD23	2.41	0.41
1:F:381:SER:O	1:F:381:SER:OG	2.38	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: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:280:GLU:C	1:E:284:LEU:HD23	2.41	0.41
1:E:370:PHE:HB3	1:E:412:GLY:HA2	2.03	0.41
1:E:467:LEU:HA	1:E:470:LYS:HZ3	1.86	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:280:GLU:C	1:C:284:LEU:HD23	2.41	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
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: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:306:HIS:C	1:B:313:LYS:HE3	2.42	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:342:LEU:HD12	1:F:387:ILE:HD13	2.03	0.40
1:F:1182:LYS:HA	1:F:1185:MET:HE2	2.04	0.40
1:A:342:LEU:HD12	1:A:387:ILE:HD13	2.03	0.40
1:A:466:MET:HE1	1:F:586:PHE:HB3	2.02	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
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:B:564:MET:HE2	1:B:564:MET:HA	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:539:LYS:HE2	1:D:539:LYS:HB2	1.93	0.40
1:D:564:MET:HE2	1:D:564:MET:HA	2.03	0.40
1:E:335:MET:HB3	1:E:337:LYS:HZ2	1.85	0.40
1:E:396:LEU:HD21	1:E:423:ALA:O	2.21	0.40
1:E:492:LYS:HZ3	1:E:498:LEU:HB2	1.86	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:280:GLU:C	1:D:284:LEU:HD23	2.41	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
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

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all 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%)	47	81
1	B	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	47	81
1	C	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	47	81
1	D	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	47	81
1	E	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	47	81
1	F	573/1198 (48%)	516 (90%)	56 (10%)	1 (0%)	47	81
All	All	3438/7188 (48%)	3096 (90%)	336 (10%)	6 (0%)	50	81

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	30
1	B	522/1086 (48%)	472 (90%)	50 (10%)	8	30

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	522/1086 (48%)	472 (90%)	50 (10%)	8	30
1	D	522/1086 (48%)	472 (90%)	50 (10%)	8	30
1	E	522/1086 (48%)	472 (90%)	50 (10%)	8	30
1	F	522/1086 (48%)	472 (90%)	50 (10%)	8	30
All	All	3132/6516 (48%)	2832 (90%)	300 (10%)	12	30

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	358	GLU
1	A	366	SER
1	A	370	PHE
1	A	379	VAL
1	A	381	SER
1	A	386	GLN
1	A	400	ASP
1	A	416	ARG
1	A	418	ASP
1	A	426	ARG
1	A	433	GLU
1	A	438	LEU
1	A	469	GLU
1	A	485	GLU
1	A	502	THR
1	A	504	ARG
1	A	513	LYS
1	A	523	MET

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Mol	Chain	Res	Type
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	656	LEU
1	A	659	ARG
1	A	680	LEU
1	A	692	ARG
1	A	705	SER
1	A	709	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
1	B	358	GLU
1	B	366	SER
1	B	370	PHE
1	B	379	VAL
1	B	381	SER
1	B	386	GLN
1	B	400	ASP
1	B	416	ARG
1	B	418	ASP
1	B	426	ARG

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Mol	Chain	Res	Type
1	B	433	GLU
1	B	438	LEU
1	B	469	GLU
1	B	485	GLU
1	B	502	THR
1	B	504	ARG
1	B	513	LYS
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	656	LEU
1	B	659	ARG
1	B	680	LEU
1	B	692	ARG
1	B	705	SER
1	B	709	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
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	358	GLU
1	C	366	SER

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Mol	Chain	Res	Type
1	C	370	PHE
1	C	379	VAL
1	C	381	SER
1	C	386	GLN
1	C	400	ASP
1	C	416	ARG
1	C	418	ASP
1	C	426	ARG
1	C	433	GLU
1	C	438	LEU
1	C	469	GLU
1	C	485	GLU
1	C	502	THR
1	C	504	ARG
1	C	513	LYS
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	656	LEU
1	C	659	ARG
1	C	680	LEU
1	C	692	ARG
1	C	705	SER
1	C	709	LEU
1	C	1129	ASP
1	C	1137	LEU
1	C	1166	SER
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

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Mol	Chain	Res	Type
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	358	GLU
1	D	366	SER
1	D	370	PHE
1	D	379	VAL
1	D	381	SER
1	D	386	GLN
1	D	400	ASP
1	D	416	ARG
1	D	418	ASP
1	D	426	ARG
1	D	433	GLU
1	D	438	LEU
1	D	469	GLU
1	D	485	GLU
1	D	502	THR
1	D	504	ARG
1	D	513	LYS
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	656	LEU
1	D	659	ARG
1	D	680	LEU
1	D	692	ARG
1	D	705	SER
1	D	709	LEU
1	D	1129	ASP
1	D	1137	LEU
1	D	1166	SER
1	D	1175	ASP
1	D	1186	ILE

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Mol	Chain	Res	Type
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	358	GLU
1	E	366	SER
1	E	370	PHE
1	E	379	VAL
1	E	381	SER
1	E	386	GLN
1	E	400	ASP
1	E	416	ARG
1	E	418	ASP
1	E	426	ARG
1	E	433	GLU
1	E	438	LEU
1	E	469	GLU
1	E	485	GLU
1	E	502	THR
1	E	504	ARG
1	E	513	LYS
1	E	523	MET
1	E	531	GLU
1	E	533	SER
1	E	534	SER
1	E	569	LYS
1	E	575	GLU
1	E	593	GLU
1	E	633	SER
1	E	656	LEU
1	E	659	ARG
1	E	680	LEU

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Mol	Chain	Res	Type
1	E	692	ARG
1	E	705	SER
1	E	709	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	358	GLU
1	F	366	SER
1	F	370	PHE
1	F	379	VAL
1	F	381	SER
1	F	386	GLN
1	F	400	ASP
1	F	416	ARG
1	F	418	ASP
1	F	426	ARG
1	F	433	GLU
1	F	438	LEU
1	F	469	GLU
1	F	485	GLU
1	F	502	THR
1	F	504	ARG
1	F	513	LYS
1	F	523	MET
1	F	531	GLU
1	F	533	SER

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Mol	Chain	Res	Type
1	F	534	SER
1	F	569	LYS
1	F	575	GLU
1	F	593	GLU
1	F	633	SER
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	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 (46) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	328	ASN
1	A	364	GLN
1	A	384	GLN
1	A	489	ASN
1	A	550	ASN
1	A	589	GLN
1	A	615	GLN
1	A	624	GLN
1	A	1149	GLN
1	B	328	ASN
1	B	364	GLN
1	B	489	ASN
1	B	550	ASN
1	B	615	GLN
1	B	624	GLN
1	B	1149	GLN
1	C	328	ASN
1	C	364	GLN
1	C	489	ASN
1	C	550	ASN
1	C	615	GLN
1	C	624	GLN

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Mol	Chain	Res	Type
1	C	1149	GLN
1	D	328	ASN
1	D	364	GLN
1	D	489	ASN
1	D	589	GLN
1	D	615	GLN
1	D	624	GLN
1	D	1149	GLN
1	E	328	ASN
1	E	364	GLN
1	E	489	ASN
1	E	550	ASN
1	E	589	GLN
1	E	615	GLN
1	E	624	GLN
1	E	1149	GLN
1	F	328	ASN
1	F	364	GLN
1	F	489	ASN
1	F	550	ASN
1	F	589	GLN
1	F	615	GLN
1	F	624	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 monosaccharides 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.

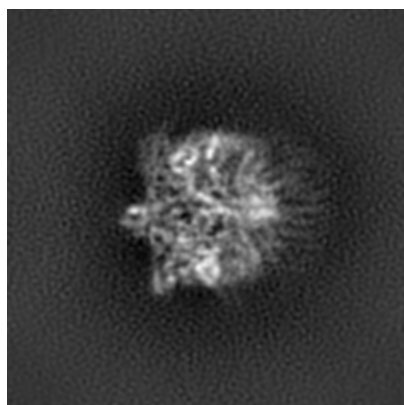
6 Map visualisation [i](#)

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.

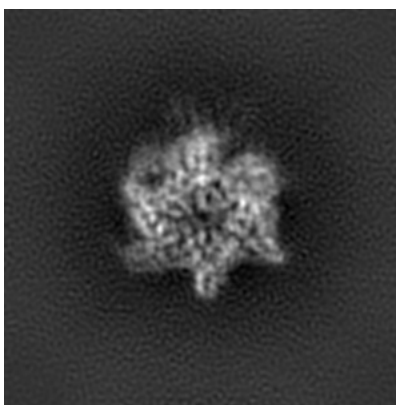
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

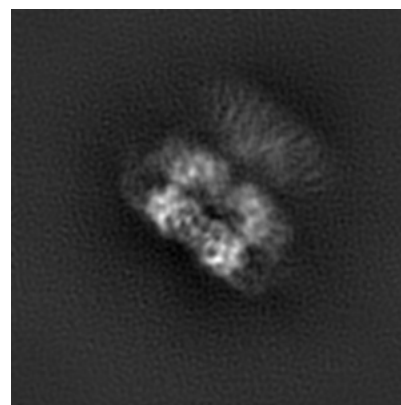
6.1.1 Primary map



X



Y

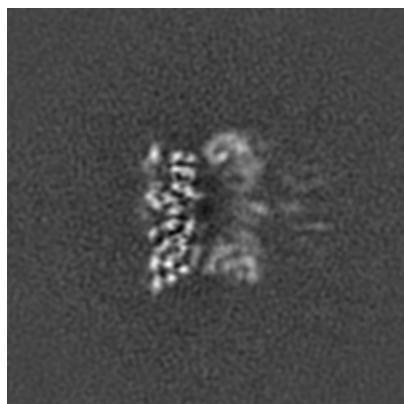


Z

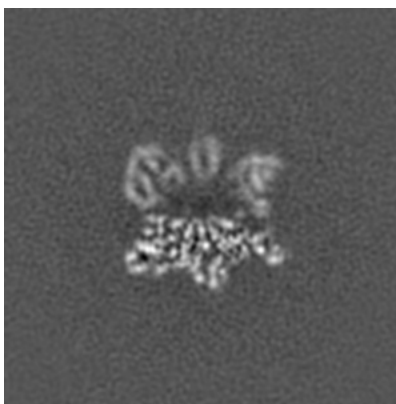
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

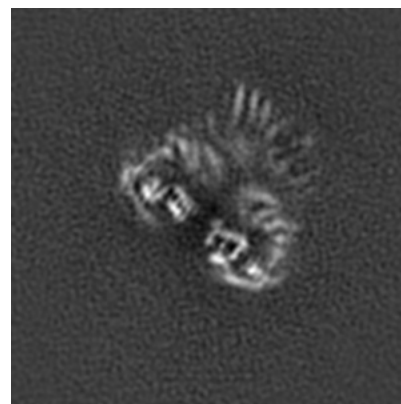
6.2.1 Primary map



X Index: 150



Y Index: 150

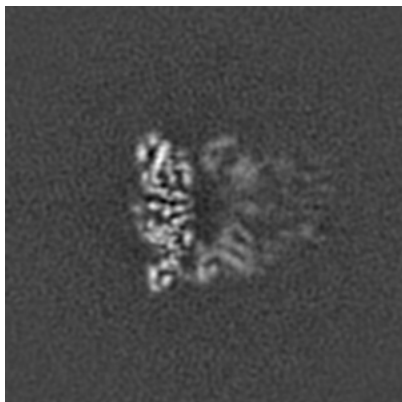


Z Index: 150

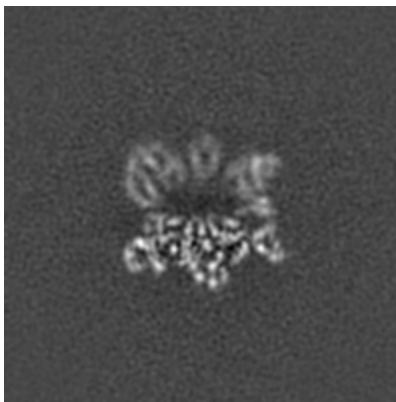
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

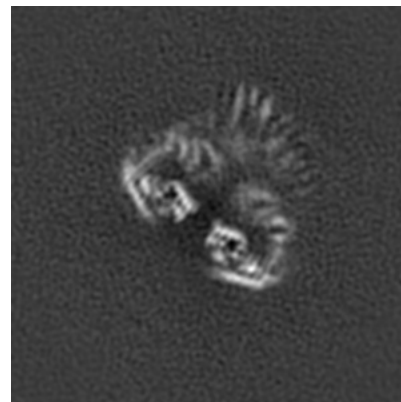
6.3.1 Primary map



X Index: 157



Y Index: 152

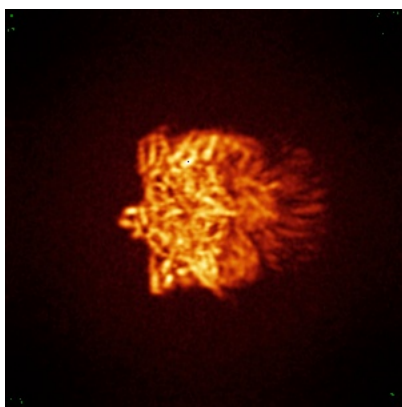


Z Index: 148

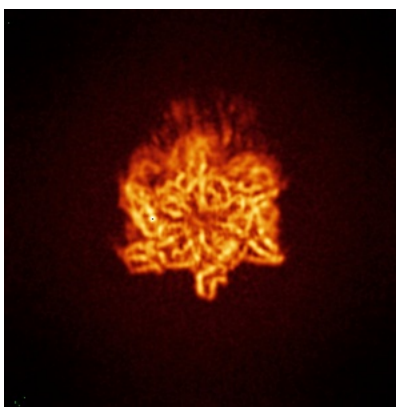
The images above show the largest variance slices of the map in three orthogonal directions.

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

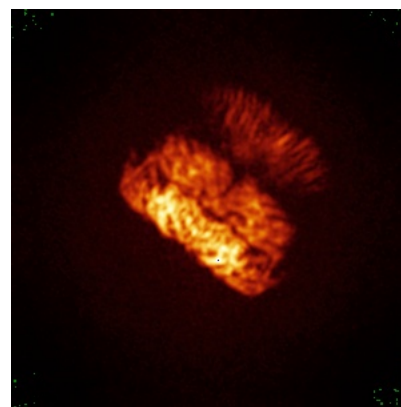
6.4.1 Primary map



X



Y

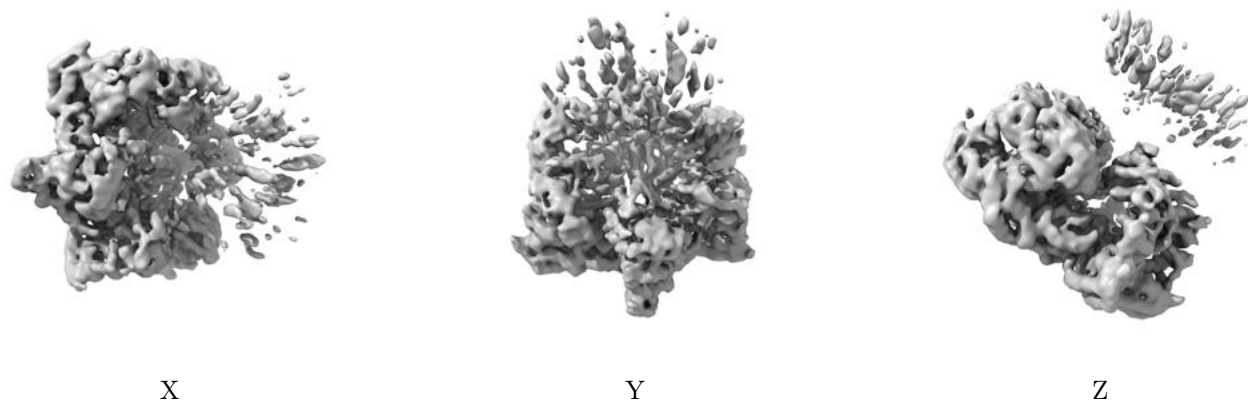


Z

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.

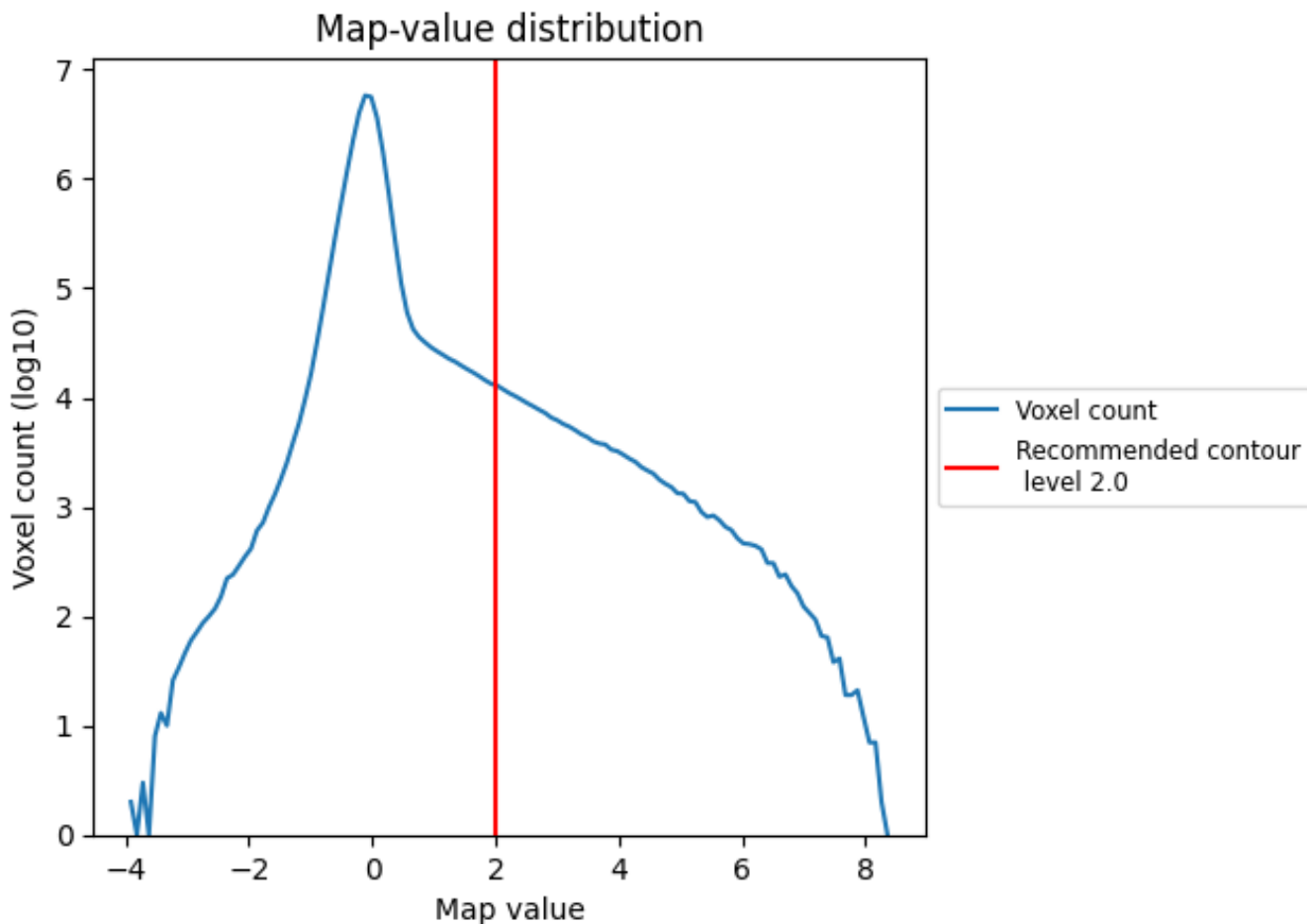
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

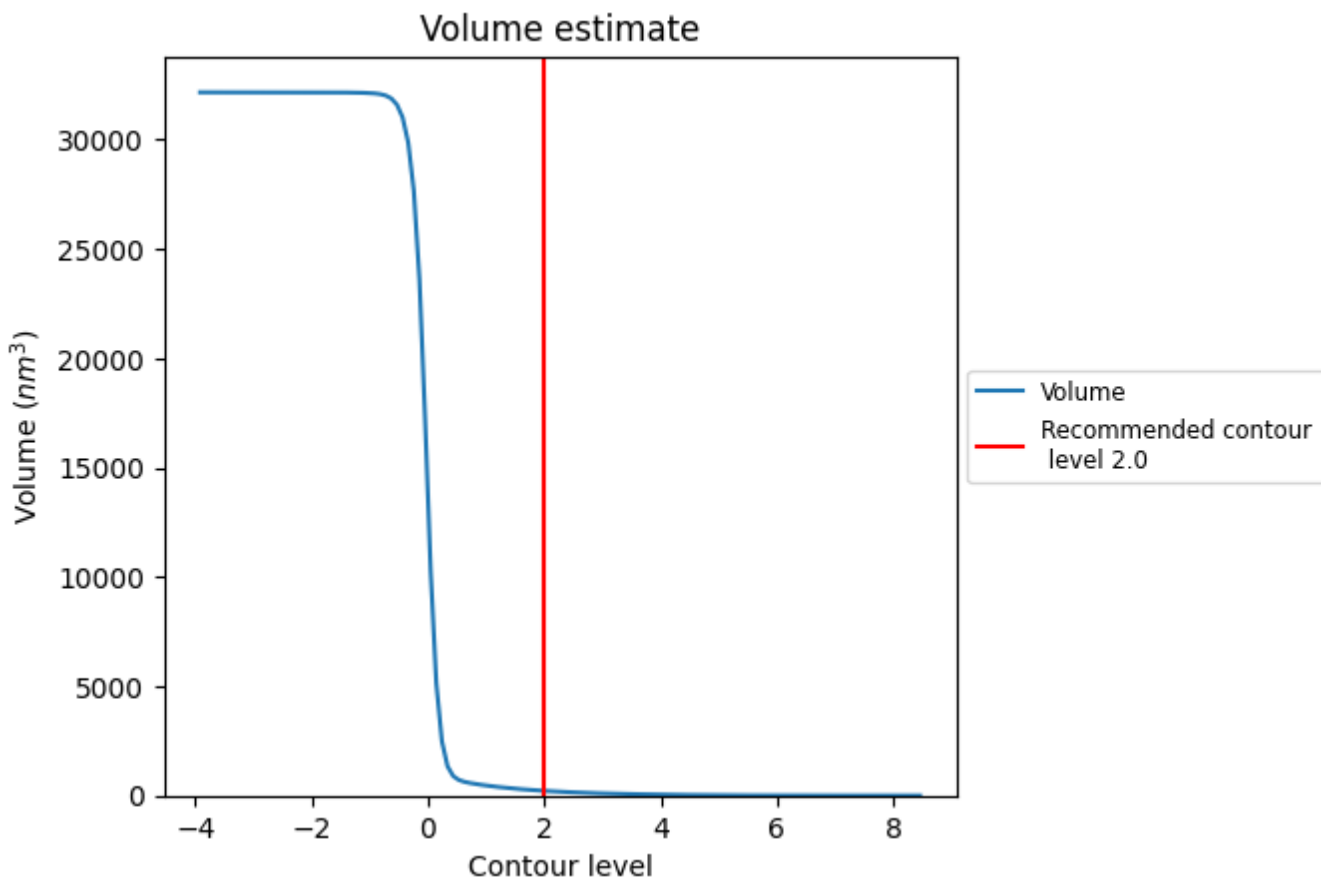
This section contains the results of statistical analysis of the map.

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.

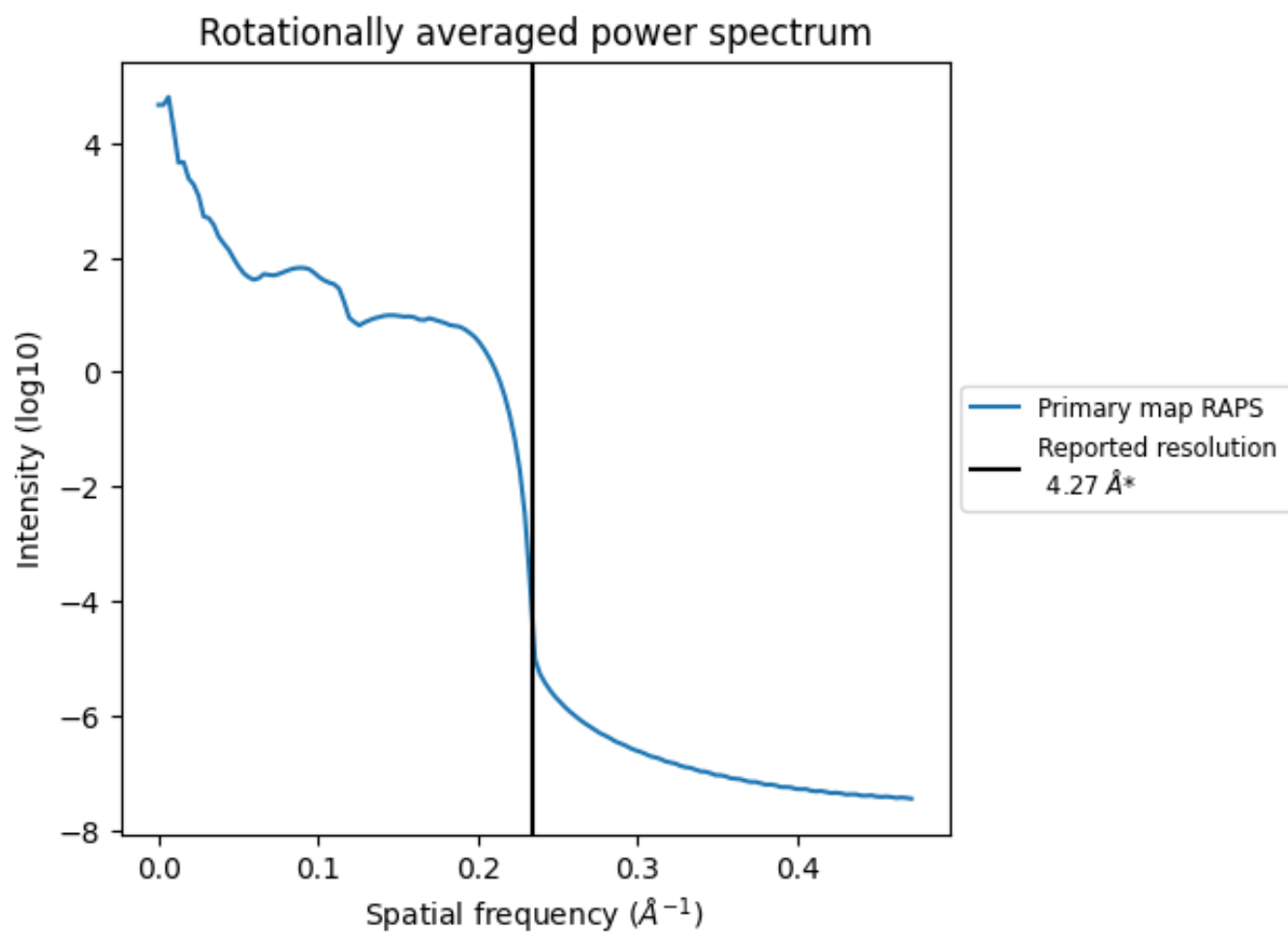
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 215 nm³; 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 [i](#)



*Reported resolution corresponds to spatial frequency of 0.234\AA^{-1}

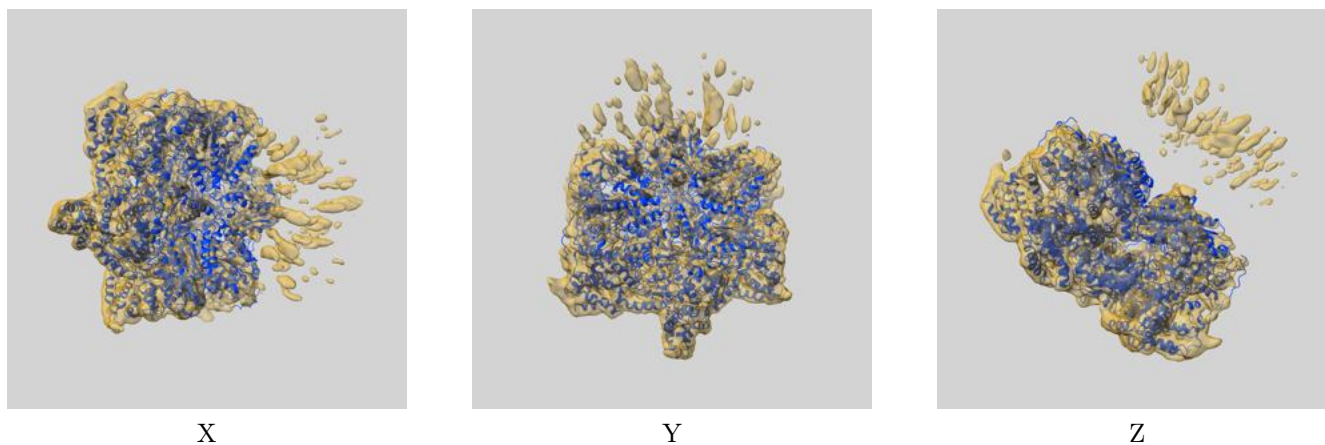
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

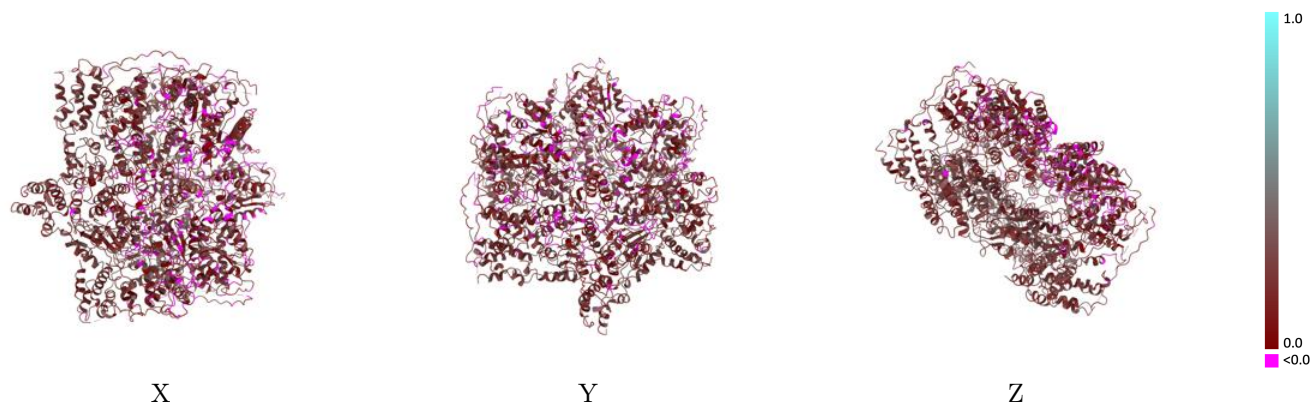
This section contains information regarding the fit between EMDB map EMD-9871 and PDB model 6JPU. Per-residue inclusion information can be found in section 3 on page 5.

9.1 Map-model overlay [i](#)



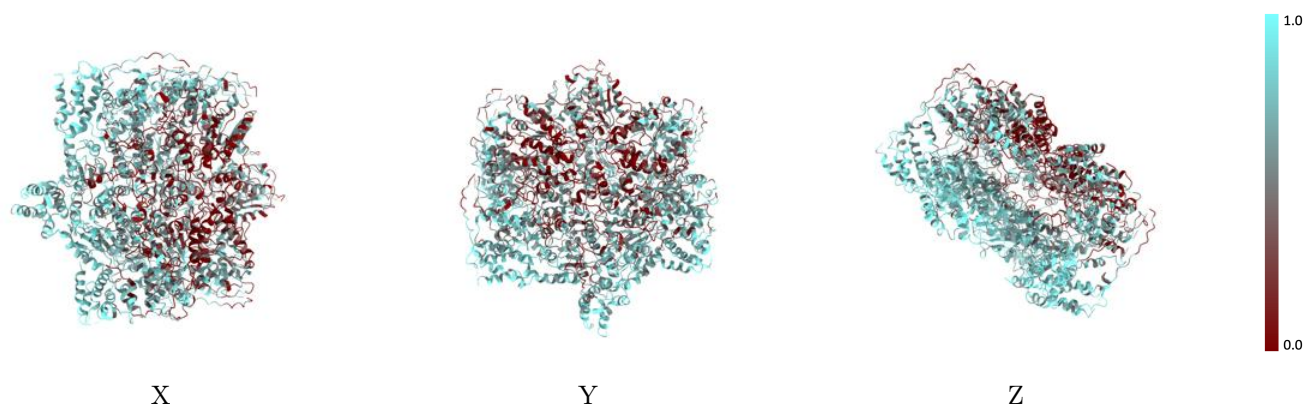
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



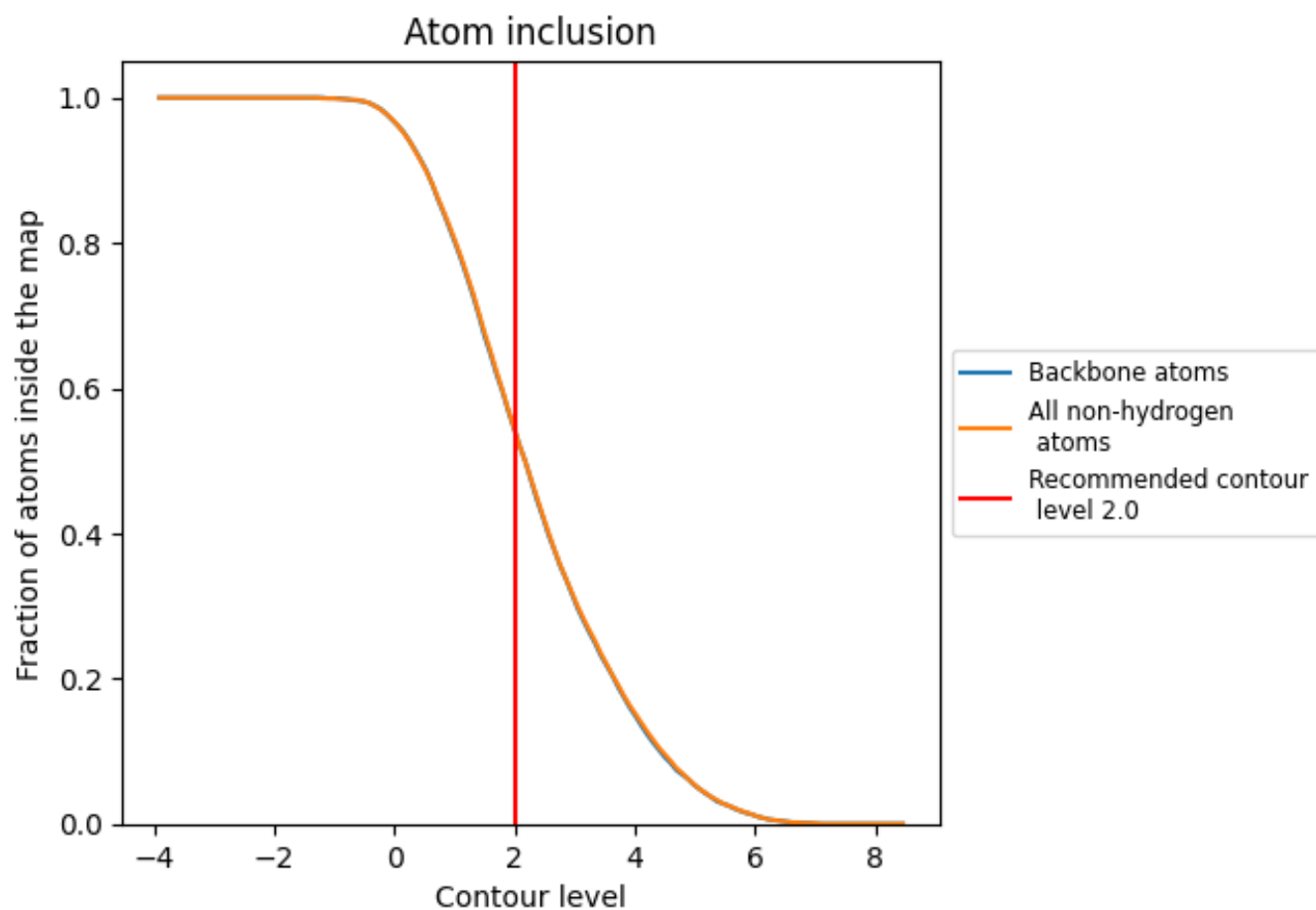
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (2.0).















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 [i](#)

The table lists the average atom inclusion at the recommended contour level (2.0) 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

