Full wwPDB EM Validation Report

Aug 23, 2023 – 12:22 PM EDT

PDB ID	:	8SYF
EMDB ID	:	EMD-29646
Title	:	Homology model of Acto-HMM complex in ADP-state. Chicken smooth muscle HMM and chicken pectoralis actin
Authors	:	Hojjatian, A.; Taylor, D.W.; Daneshparvar, N.; Trybus, K.M.; Taylor, K.A.
Deposited on	:	2023-05-25
Resolution	:	19.00 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:

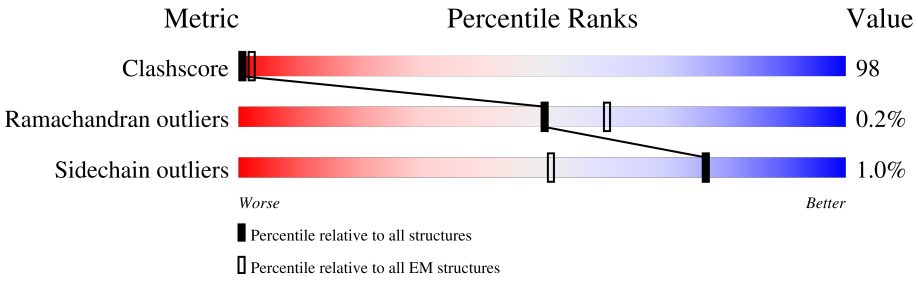
EMDB validation analysis	:	0.0.1.dev50
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

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 19.00 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 <=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	843	12% 81% • 5%
1	B	843	11% 82% • 5%
2	C	375	17% 82% •
2	D	375	15% 84% •
3	E	148	• 16% 84% •
3	H	148	21% 78% •
4	F	143	6% 41% 59%
4	G	143	52% 63% 37%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 23456 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Myosin, heavy chain 11, smooth muscle.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	800	Total	C	N	O	S	0	0
			6474	4129	1118	1195	32		
1	B	800	Total	C	N	O	S	0	0
			6474	4129	1118	1195	32		

- Molecule 2 is a protein called Actin, alpha skeletal muscle.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	375	Total	C	N	O	S	0	0
			2933	1854	493	565	21		
2	D	375	Total	C	N	O	S	0	0
			2933	1854	493	565	21		

- Molecule 3 is a protein called Myosin light polypeptide 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	E	148	Total	C	N	O	S	0	0
			1160	720	193	236	11		
3	H	148	Total	C	N	O	S	0	0
			1160	720	193	236	11		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	65	ASN	LYS	conflict	UNP P02607
H	65	ASN	LYS	conflict	UNP P02607

- Molecule 4 is a protein called Myosin regulatory light chain 2, smooth muscle major isoform.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	F	143	Total	C	N	O	S	0	0
			1161	727	189	235	10		

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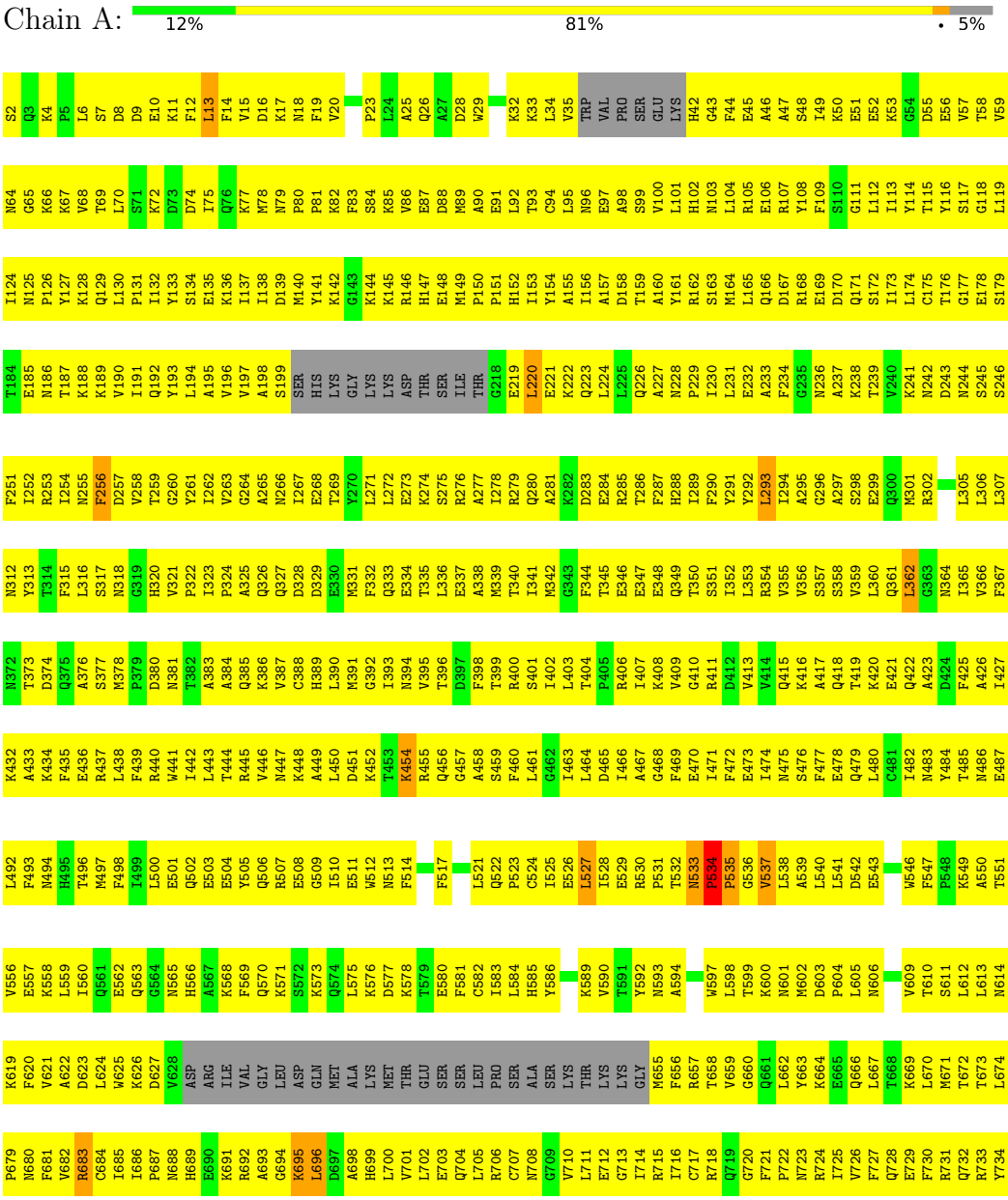
Mol	Chain	Residues	Atoms					AltConf	Trace
4	G	143	Total	C	N	O	S	0	0
			1161	727	189	235	10		

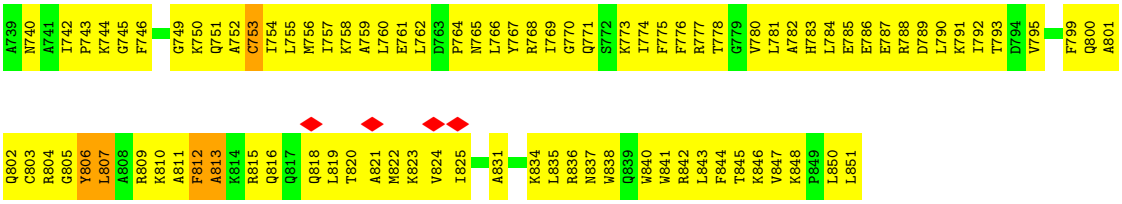
3 Residue-property plots (i)

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: Myosin, heavy chain 11, smooth muscle

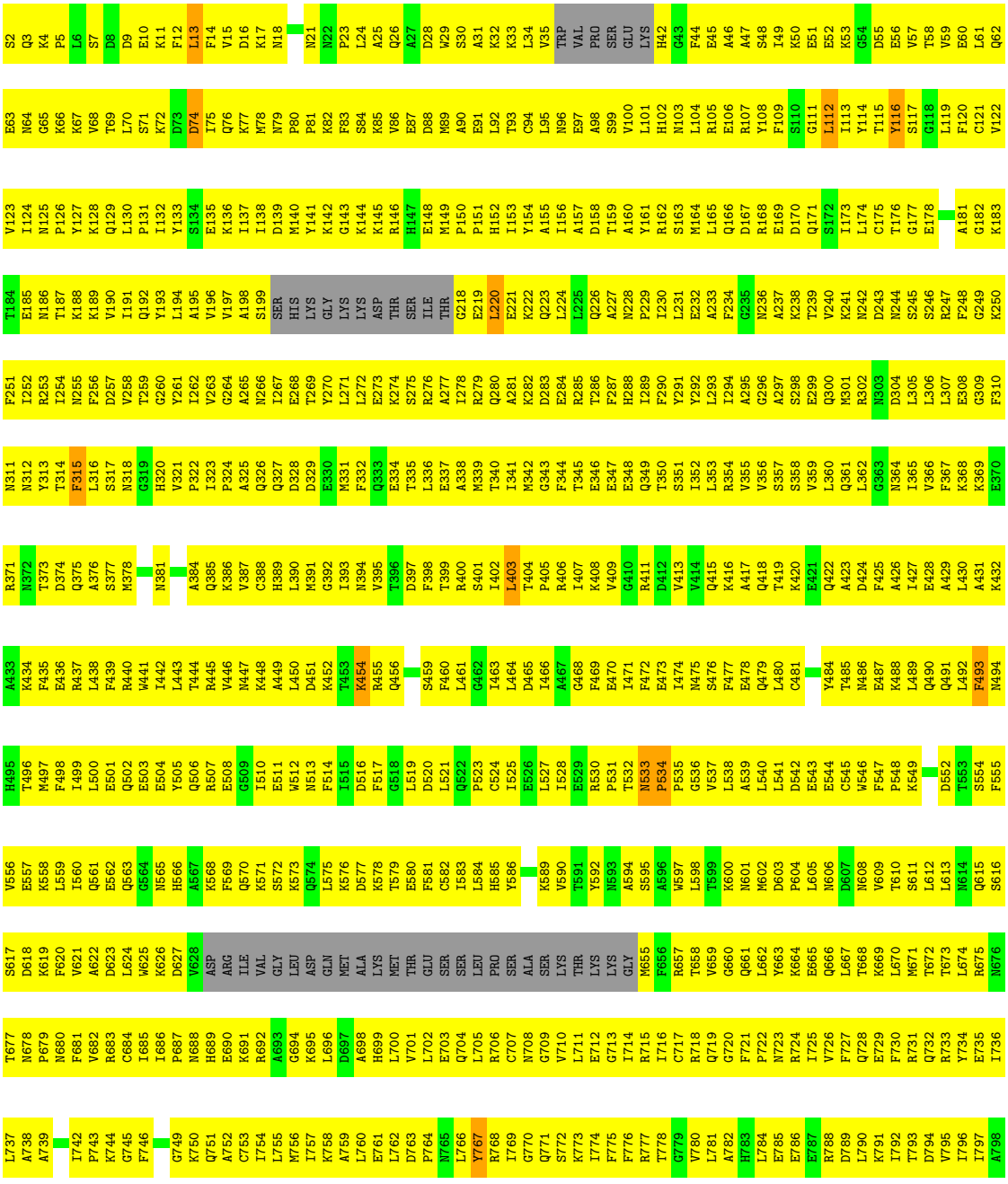
Chain A:

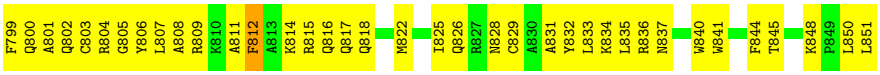




• Molecule 1: Myosin, heavy chain 11, smooth muscle

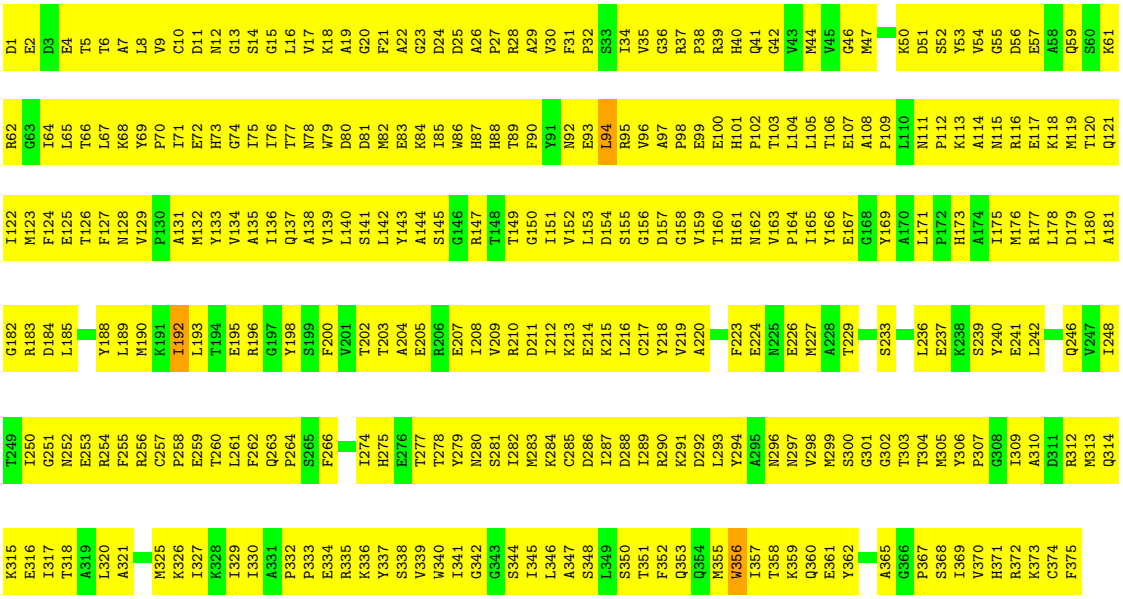
Chain B: 11% 82% • 5%





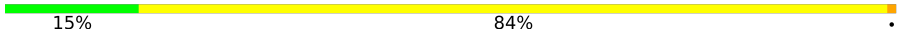
• Molecule 2: Actin, alpha skeletal muscle

Chain C:



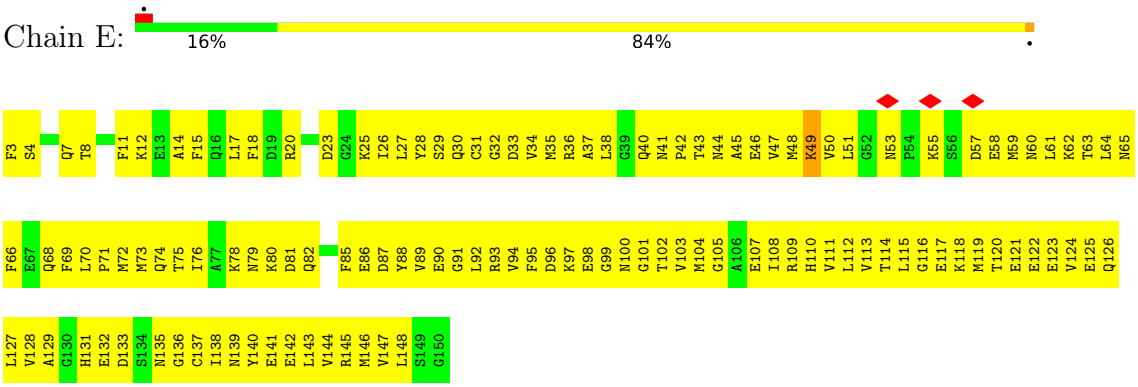
• Molecule 2: Actin, alpha skeletal muscle

Chain D:



• Molecule 3: Myosin light polypeptide 6

Chain E:

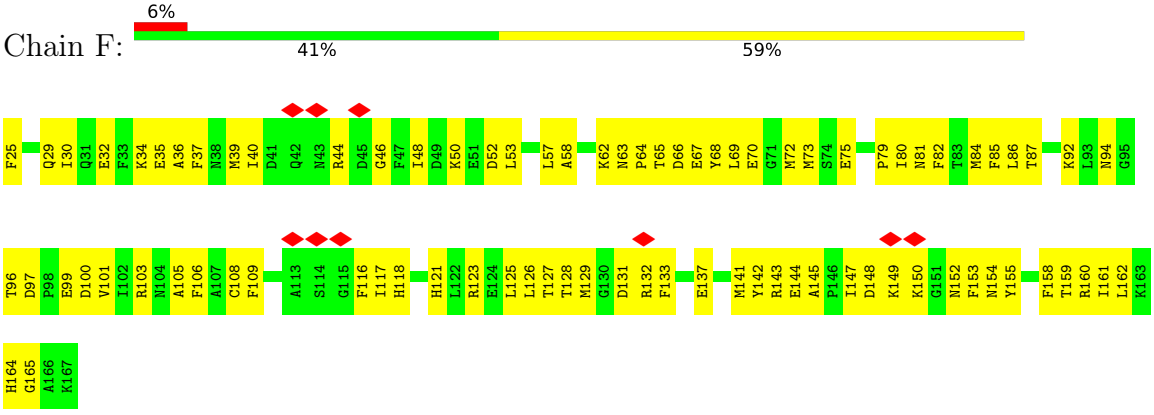


• Molecule 3: Myosin light polypeptide 6

Chain H:

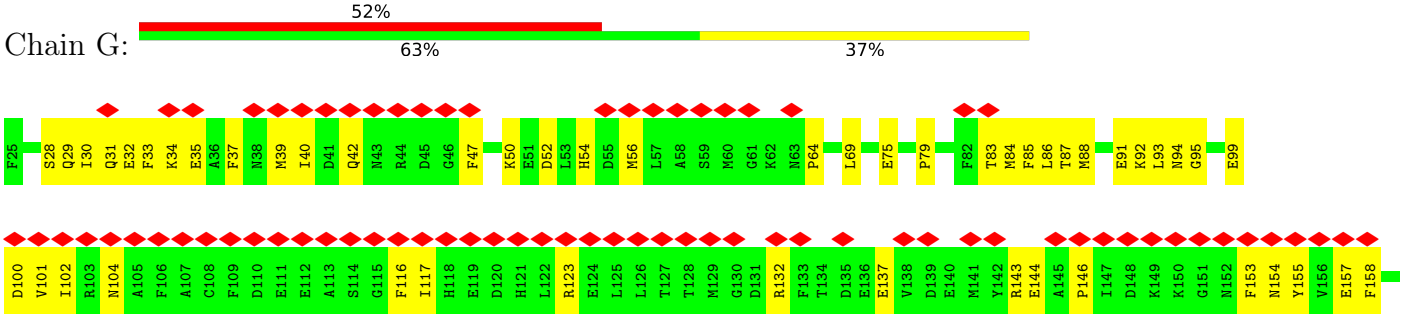
• Molecule 4: Myosin regulatory light chain 2, smooth muscle major isoform

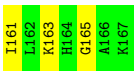
Chain F:



• Molecule 4: Myosin regulatory light chain 2, smooth muscle major isoform

Chain G:




I161
L162
K163
H164
G165
A166
K167

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	17394	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	29.6	Depositor
Minimum defocus (nm)	200	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-64 (8k x 8k)	Depositor
Maximum map value	0.261	Depositor
Minimum map value	-0.127	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.026	Depositor
Recommended contour level	0.0472	Depositor
Map size (Å)	537.6, 537.6, 537.6	wwPDB
Map dimensions	210, 210, 210	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.56, 2.56, 2.56	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	A	0.47	1/6595 (0.0%)	0.63	7/8886 (0.1%)
1	B	0.46	0/6595	0.63	3/8886 (0.0%)
2	C	0.43	0/2996	0.59	1/4058 (0.0%)
2	D	0.45	0/2996	0.58	0/4058
3	E	0.39	0/1175	0.63	0/1575
3	H	0.36	0/1175	0.54	0/1575
4	F	0.28	0/1185	0.47	0/1589
4	G	0.27	0/1185	0.45	0/1589
All	All	0.43	1/23902 (0.0%)	0.60	11/32216 (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	3
1	B	0	1
2	C	0	1
2	D	0	1
All	All	0	6

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	806	TYR	CD1-CE1	-5.40	1.31	1.39

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	220	LEU	CA-CB-CG	-8.53	95.68	115.30
1	B	13	LEU	CB-CG-CD1	-7.79	97.75	111.00
1	B	220	LEU	CA-CB-CG	-7.74	97.50	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	403	LEU	CA-CB-CG	6.06	129.24	115.30
1	A	293	LEU	CA-CB-CG	-5.86	101.82	115.30
1	A	696	LEU	CA-CB-CG	-5.56	102.51	115.30
1	A	13	LEU	CB-CG-CD2	-5.55	101.57	111.00
2	C	94	LEU	CB-CG-CD2	-5.53	101.60	111.00
1	A	807	LEU	CA-CB-CG	-5.46	102.74	115.30
1	A	527	LEU	CB-CG-CD2	-5.44	101.76	111.00
1	A	362	LEU	CA-CB-CG	-5.30	103.11	115.30

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	533	ASN	Peptide
1	A	534	PRO	Peptide
1	A	683	ARG	Peptide
1	B	533	ASN	Peptide
2	C	356	TRP	Peptide
2	D	4	GLU	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	6474	0	6518	1431	0
1	B	6474	0	6518	1470	0
2	C	2933	0	2894	641	0
2	D	2933	0	2894	621	0
3	E	1160	0	1119	274	0
3	H	1160	0	1119	192	0
4	F	1161	0	1076	97	0
4	G	1161	0	1076	57	0
All	All	23456	0	23214	4552	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 98.

All (4552) close contacts within the same asymmetric unit are listed below, sorted by their clash

magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2:SER:N	1:B:141:TYR:HH	1.38	1.22
1:B:446:VAL:O	1:B:450:LEU:HB2	1.45	1.16
2:C:154:ASP:O	2:C:160:THR:HA	1.46	1.14
1:A:61:LEU:O	1:A:65:GLY:N	1.91	1.03
1:A:488:LYS:HB3	1:A:667:LEU:HD11	1.41	1.02
2:D:156:GLY:HA2	2:D:302:GLY:H	1.26	1.01
1:B:194:LEU:HD11	1:B:461:LEU:HD23	1.43	1.00
1:B:540:LEU:HD22	1:B:558:LYS:HB3	1.40	1.00
1:A:768:ARG:O	1:A:774:ILE:HA	1.60	1.00
1:A:510:ILE:HG12	1:A:768:ARG:HG2	1.44	0.99
3:E:104:MET:HA	3:E:137:CYS:HA	1.41	0.99
2:D:237:GLU:HA	2:D:251:GLY:HA2	1.45	0.97
1:A:233:ALA:HA	1:A:288:HIS:HB2	1.47	0.96
1:A:221:GLU:O	1:A:224:LEU:HB3	1.65	0.96
1:B:16:ASP:H	1:B:112:LEU:HD11	1.28	0.96
1:B:138:ILE:HG12	1:B:193:TYR:HA	1.45	0.95
1:B:299:GLU:HA	1:B:302:ARG:HB2	1.47	0.95
2:C:79:TRP:HA	2:C:82:MET:HB2	1.47	0.95
1:B:512:TRP:NE1	1:B:764:PRO:O	1.99	0.95
1:A:97:GLU:O	1:A:101:LEU:HB2	1.68	0.94
1:A:101:LEU:HD11	1:A:702:LEU:HB2	1.47	0.94
1:B:411:ARG:H	2:C:28:ARG:HG3	1.32	0.94
1:A:274:LYS:O	1:A:277:ALA:HB3	1.67	0.94
1:B:375:GLN:HB2	1:B:417:ALA:HB3	1.49	0.94
1:A:122:VAL:HG13	1:A:685:ILE:HD12	1.49	0.94
1:B:739:ALA:HB1	1:B:742:ILE:HB	1.51	0.94
1:B:293:LEU:HD11	1:B:353:LEU:HB3	1.49	0.93
1:B:289:ILE:HA	1:B:292:TYR:HB2	1.50	0.93
2:D:361:GLU:HB3	2:D:369:ILE:HG12	1.48	0.93
2:C:218:TYR:HB3	2:C:255:PHE:HB3	1.50	0.93
2:C:156:GLY:HA3	2:C:303:THR:H	1.34	0.93
2:C:218:TYR:HA	2:C:307:PRO:HD2	1.48	0.92
1:B:294:ILE:HG12	1:B:307:LEU:HD22	1.51	0.92
2:C:237:GLU:HA	2:C:250:ILE:O	1.69	0.92
1:B:492:LEU:HD11	1:B:671:MET:HG2	1.50	0.91
1:A:61:LEU:HD21	1:A:70:LEU:HD22	1.52	0.91
1:A:293:LEU:HG	1:A:307:LEU:HD11	1.53	0.91
1:A:294:ILE:HG12	1:A:307:LEU:HD22	1.49	0.91
1:B:221:GLU:O	1:B:224:LEU:HB3	1.71	0.90
2:D:242:LEU:HB3	2:D:246:GLN:HB3	1.52	0.90
1:A:299:GLU:HA	1:A:302:ARG:HB2	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:130:LEU:O	1:B:189:LYS:NZ	2.04	0.90
1:B:29:TRP:HZ2	1:B:34:LEU:H	1.16	0.90
1:B:430:LEU:O	1:B:434:LYS:HB2	1.69	0.90
1:B:545:CYS:SG	1:B:601:ASN:ND2	2.44	0.90
2:D:219:VAL:HG23	2:D:306:TYR:HB2	1.54	0.90
2:D:11:ASP:O	2:D:17:VAL:HA	1.72	0.90
2:D:81:ASP:HA	2:D:84:LYS:HD2	1.53	0.89
1:A:610:THR:HA	1:A:613:LEU:HD12	1.53	0.89
2:C:185:LEU:HB3	2:C:213:LYS:HD2	1.54	0.89
1:A:238:LYS:HG3	1:A:324:PRO:HD2	1.54	0.88
1:A:10:GLU:O	1:A:14:PHE:N	2.06	0.88
1:A:416:LYS:HD2	2:D:25:ASP:HB3	1.55	0.88
3:E:43:THR:HG22	3:E:45:ALA:H	1.38	0.88
1:B:488:LYS:HG3	1:B:671:MET:HG3	1.54	0.88
2:C:321:ALA:HB2	2:C:327:ILE:HD11	1.56	0.88
1:B:686:ILE:HG22	1:B:700:LEU:HB3	1.55	0.88
2:C:76:ILE:HG23	2:C:82:MET:HG3	1.54	0.88
1:B:239:THR:HA	1:B:284:GLU:HG2	1.53	0.88
1:B:558:LYS:O	1:B:562:GLU:HB2	1.74	0.88
3:H:33:ASP:HA	3:H:36:ARG:HD2	1.55	0.88
1:A:116:TYR:HA	1:A:120:PHE:O	1.73	0.88
1:B:232:GLU:HA	1:B:236:ASN:HB2	1.56	0.88
1:B:132:ILE:O	1:B:152:HIS:NE2	2.06	0.88
2:C:88:HIS:O	2:C:93:GLU:N	2.07	0.87
1:A:806:TYR:OH	3:H:144:VAL:O	1.91	0.87
1:A:138:ILE:HD11	1:A:192:GLN:HG3	1.56	0.87
1:B:488:LYS:HB3	1:B:667:LEU:HD11	1.54	0.87
1:A:34:LEU:HD23	1:A:78:MET:HG3	1.56	0.87
1:B:173:ILE:HG12	1:B:461:LEU:HD11	1.57	0.87
2:C:6:THR:HA	2:C:22:ALA:HB3	1.56	0.87
3:E:35:MET:O	3:E:40:GLN:NE2	2.06	0.87
2:D:212:ILE:HG23	2:D:216:LEU:HB2	1.54	0.87
1:A:193:TYR:HD2	1:A:194:LEU:HD23	1.40	0.87
1:B:238:LYS:HB3	1:B:285:ARG:H	1.39	0.87
1:B:50:LYS:HG3	1:B:60:GLU:H	1.37	0.86
1:B:285:ARG:NH2	1:B:328:ASP:OD1	2.07	0.86
1:B:753:CYS:HB3	1:B:774:ILE:HD11	1.53	0.86
2:C:347:ALA:HA	2:C:352:PHE:HB2	1.55	0.86
2:D:78:ASN:HB3	2:D:81:ASP:HB2	1.56	0.86
1:B:173:ILE:HA	1:B:680:ASN:HB2	1.55	0.86
1:B:570:GLN:HB3	1:B:582:CYS:HB2	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:153:LEU:HD11	2:D:274:ILE:HG12	1.57	0.86
3:H:32:GLY:HA3	3:H:47:VAL:HG13	1.58	0.86
1:B:79:ASN:HB2	1:B:83:PHE:HB2	1.55	0.86
2:C:193:LEU:HD21	2:C:250:ILE:HG13	1.58	0.86
1:A:228:ASN:O	1:A:232:GLU:N	2.09	0.85
1:B:293:LEU:HG	1:B:307:LEU:HD11	1.57	0.85
3:H:125:GLU:O	3:H:129:ALA:N	2.10	0.85
1:A:512:TRP:HE1	1:A:721:PHE:HZ	1.24	0.85
3:E:28:TYR:HB2	3:E:59:MET:HA	1.58	0.85
1:A:352:ILE:HG13	1:A:620:PHE:CE2	2.12	0.85
1:A:570:GLN:HB2	1:A:582:CYS:HB2	1.59	0.85
1:A:848:LYS:HA	1:A:851:LEU:HB2	1.58	0.85
2:C:11:ASP:HB3	2:C:18:LYS:HB2	1.58	0.85
1:B:107:ARG:HG2	1:B:112:LEU:HD12	1.59	0.85
1:A:505:TYR:HA	1:A:510:ILE:HD12	1.58	0.84
1:A:249:GLY:H	1:A:271:LEU:HB2	1.38	0.84
3:H:113:VAL:HG11	3:H:121:GLU:HA	1.59	0.84
1:A:285:ARG:HH21	1:A:291:TYR:HB2	1.41	0.84
1:B:293:LEU:HD22	1:B:356:VAL:HB	1.58	0.84
1:B:340:THR:OG1	1:B:349:GLN:NE2	2.10	0.84
1:B:722:PRO:HG2	1:B:778:THR:H	1.40	0.84
2:C:361:GLU:HB3	2:C:369:ILE:HG12	1.59	0.84
1:A:114:TYR:HA	1:A:122:VAL:O	1.78	0.84
2:C:219:VAL:HG23	2:C:306:TYR:HB2	1.59	0.84
1:A:163:SER:O	1:A:169:GLU:N	2.09	0.84
1:B:138:ILE:HG23	1:B:197:VAL:HG23	1.60	0.84
1:A:597:TRP:O	1:A:601:ASN:N	2.10	0.84
2:C:151:ILE:HB	2:C:297:ASN:HA	1.59	0.84
2:D:90:PHE:HA	2:D:94:LEU:HB2	1.60	0.84
2:C:155:SER:N	2:C:300:SER:O	2.09	0.83
2:C:286:ASP:OD2	2:D:39:ARG:NH1	2.10	0.83
1:A:290:PHE:HB3	1:A:316:LEU:HD21	1.60	0.83
2:C:304:THR:HB	2:C:335:ARG:HE	1.41	0.83
1:A:385:GLN:HG3	1:A:395:VAL:HG21	1.61	0.83
1:B:704:GLN:HA	1:B:707:CYS:HB3	1.59	0.83
3:H:35:MET:HB3	3:H:76:ILE:HG21	1.58	0.83
1:B:601:ASN:OD1	1:B:660:GLY:N	2.09	0.83
1:B:61:LEU:O	1:B:65:GLY:N	2.12	0.83
1:B:220:LEU:HD21	1:B:452:LYS:HG3	1.60	0.83
1:A:336:LEU:O	1:A:349:GLN:NE2	2.12	0.82
1:B:171:GLN:HE22	1:B:678:ASN:HB3	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:32:GLY:HA3	3:E:47:VAL:HG13	1.58	0.82
1:B:120:PHE:HZ	1:B:497:MET:HB2	1.43	0.82
2:D:136:ILE:HB	2:D:139:VAL:HB	1.62	0.82
1:A:48:SER:O	1:A:60:GLU:N	2.11	0.82
1:A:355:VAL:HG21	1:A:624:LEU:HD13	1.60	0.82
3:E:104:MET:O	3:E:108:ILE:N	2.12	0.82
1:B:138:ILE:HD11	1:B:192:GLN:HG3	1.59	0.82
2:C:177:ARG:NH1	2:C:179:ASP:OD1	2.13	0.82
2:C:236:LEU:HB3	2:C:255:PHE:HE1	1.44	0.82
1:A:187:THR:OG1	1:A:465:ASP:OD1	1.97	0.82
1:A:223:GLN:HB3	1:A:342:MET:HE1	1.59	0.82
1:A:540:LEU:HD22	1:A:558:LYS:HB3	1.58	0.82
1:B:802:GLN:HG3	3:E:147:VAL:HG12	1.61	0.82
3:E:40:GLN:HG3	3:E:80:LYS:HA	1.62	0.82
1:A:224:LEU:HD13	1:A:267:ILE:HG21	1.62	0.81
2:C:8:LEU:HG	2:C:101:HIS:HB2	1.62	0.81
2:C:239:SER:HA	2:C:248:ILE:O	1.80	0.81
2:D:317:ILE:HG22	2:D:327:ILE:HD13	1.60	0.81
1:A:53:LYS:HE2	1:A:56:GLU:HB3	1.60	0.81
1:A:686:ILE:HB	1:A:704:GLN:HG3	1.62	0.81
2:C:111:ASN:OD1	2:C:177:ARG:NH2	2.12	0.81
1:A:162:ARG:O	1:A:166:GLN:N	2.13	0.81
1:B:152:HIS:CD2	1:B:154:TYR:HB2	2.15	0.81
1:B:480:LEU:HD11	1:B:528:ILE:HD12	1.62	0.81
2:D:98:PRO:HB2	2:D:127:PHE:HB3	1.61	0.81
1:A:32:LYS:HB3	1:A:49:ILE:HB	1.63	0.81
1:B:803:CYS:SG	3:E:127:LEU:HB2	2.20	0.81
3:E:46:GLU:HA	3:E:49:LYS:HG3	1.63	0.81
1:A:179:SER:O	1:A:242:ASN:ND2	2.12	0.81
1:B:826:GLN:HG2	4:F:129:MET:HB3	1.61	0.81
1:A:174:LEU:HA	1:A:464:LEU:HB3	1.63	0.81
2:C:279:TYR:HA	2:C:282:ILE:HD12	1.63	0.81
1:A:762:LEU:HD11	1:A:784:LEU:HD21	1.62	0.81
2:D:166:TYR:HD1	2:D:293:LEU:HD21	1.44	0.81
2:C:90:PHE:HA	2:C:94:LEU:HB2	1.62	0.80
1:A:115:THR:HB	1:A:122:VAL:HB	1.63	0.80
1:B:233:ALA:HB1	1:B:289:ILE:HB	1.63	0.80
1:B:242:ASN:HB3	1:B:245:SER:HB3	1.64	0.80
1:B:271:LEU:H	1:B:666:GLN:HB3	1.45	0.80
2:D:79:TRP:HE3	2:D:122:ILE:HG12	1.44	0.80
2:C:123:MET:O	2:C:129:VAL:N	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:347:GLU:OE1	1:B:354:ARG:NH2	2.13	0.80
1:A:107:ARG:HB3	1:A:112:LEU:HB2	1.63	0.80
1:A:292:TYR:HB3	1:A:332:PHE:HB2	1.63	0.80
1:B:105:ARG:HB2	1:B:698:ALA:HB2	1.62	0.80
1:B:294:ILE:HD12	1:B:310:PHE:HA	1.64	0.80
2:C:241:GLU:HA	2:C:246:GLN:O	1.82	0.80
2:D:24:ASP:HB2	2:D:340:TRP:HH2	1.43	0.80
1:B:29:TRP:HE1	1:B:34:LEU:HB2	1.47	0.80
2:D:11:ASP:HB3	2:D:18:LYS:HB2	1.61	0.80
2:D:102:PRO:HB3	2:D:131:ALA:HB3	1.60	0.80
2:D:190:MET:HG3	2:D:200:PHE:HB2	1.62	0.80
1:A:313:TYR:CG	1:A:360:LEU:HB3	2.17	0.80
1:B:187:THR:HG21	1:B:252:ILE:HD13	1.62	0.80
1:B:527:LEU:HD11	1:B:583:ILE:HG12	1.63	0.80
1:A:530:ARG:O	1:A:536:GLY:N	2.14	0.80
1:B:726:VAL:HA	1:B:773:LYS:HG2	1.63	0.80
1:A:809:ARG:HB2	3:H:41:ASN:HB3	1.63	0.80
1:B:451:ASP:OD2	1:B:455:ARG:NH1	2.15	0.80
2:D:365:ALA:O	2:D:372:ARG:NH1	2.15	0.80
1:B:163:SER:HA	1:B:167:ASP:HB2	1.62	0.79
1:B:336:LEU:HD21	1:B:353:LEU:HD11	1.64	0.79
3:H:42:PRO:HG3	3:H:76:ILE:HD12	1.61	0.79
3:H:141:GLU:HB3	3:H:145:ARG:HH21	1.47	0.79
1:A:733:ARG:NH2	1:A:734:TYR:OH	2.15	0.79
1:B:80:PRO:HG2	1:B:785:GLU:HB2	1.64	0.79
1:A:194:LEU:HD12	1:A:254:ILE:HD12	1.65	0.79
1:B:586:TYR:OH	1:B:715:ARG:NH2	2.15	0.79
1:B:579:THR:HG1	1:B:595:SER:HG	1.22	0.79
2:C:105:LEU:HD12	2:C:119:MET:HB3	1.64	0.79
1:B:610:THR:HA	1:B:613:LEU:HD12	1.64	0.79
1:A:220:LEU:HD11	1:A:452:LYS:HE3	1.64	0.79
1:B:198:ALA:HB1	1:B:261:TYR:HA	1.62	0.79
1:B:153:ILE:O	1:B:157:ALA:HB2	1.82	0.79
2:C:105:LEU:HD11	2:C:123:MET:HG2	1.65	0.79
2:D:262:PHE:HB3	2:D:275:HIS:HE1	1.45	0.79
1:B:291:TYR:OH	1:B:318:ASN:O	2.00	0.79
1:B:532:THR:HA	1:B:535:PRO:HG3	1.62	0.79
1:A:186:ASN:ND2	1:A:684:CYS:SG	2.55	0.79
1:B:101:LEU:HD11	1:B:702:LEU:HB2	1.63	0.79
3:E:35:MET:HB3	3:E:76:ILE:HG21	1.65	0.79
1:B:57:VAL:HB	1:B:75:ILE:HD13	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:807:LEU:HD12	3:E:123:GLU:HG3	1.64	0.79
1:A:445:ARG:HD3	1:A:448:LYS:HD2	1.65	0.78
1:B:79:ASN:HD21	1:B:94:CYS:HB2	1.48	0.78
1:B:469:PHE:HB2	1:B:707:CYS:HA	1.63	0.78
1:B:613:LEU:HB3	1:B:625:TRP:HE3	1.48	0.78
1:B:757:ILE:HD11	1:B:774:ILE:HD13	1.64	0.78
1:B:702:LEU:HD12	1:B:705:LEU:HD12	1.63	0.78
2:C:212:ILE:O	2:C:216:LEU:N	2.12	0.78
1:B:416:LYS:HG2	2:C:333:PRO:HB2	1.65	0.78
2:D:121:GLN:O	2:D:125:GLU:N	2.16	0.78
1:A:135:GLU:HA	1:A:138:ILE:HD12	1.65	0.78
1:A:293:LEU:HD13	1:A:353:LEU:HD22	1.66	0.78
1:A:470:GLU:HB3	1:A:472:PHE:CZ	2.19	0.78
1:A:527:LEU:HD23	1:A:583:ILE:HG23	1.65	0.78
2:D:151:ILE:HA	2:D:164:PRO:HA	1.65	0.78
1:B:191:ILE:HG12	1:B:254:ILE:HD11	1.64	0.78
1:A:402:ILE:HG12	1:A:606:ASN:HD22	1.49	0.78
1:B:406:ARG:H	1:B:608:ASN:HD21	1.30	0.78
1:A:141:TYR:CE1	1:A:149:MET:HB2	2.19	0.78
1:A:171:GLN:HA	1:A:677:THR:HB	1.64	0.78
1:A:186:ASN:ND2	1:A:683:ARG:O	2.17	0.78
1:A:315:PHE:HB2	1:A:360:LEU:HD23	1.66	0.78
1:A:813:ALA:HB3	1:A:815:ARG:HG2	1.66	0.78
1:B:26:GLN:H	1:B:789:ASP:HB3	1.49	0.78
3:H:50:VAL:HB	3:H:75:THR:HG23	1.65	0.78
1:A:285:ARG:NH2	1:A:291:TYR:HB2	1.97	0.78
1:A:446:VAL:O	1:A:450:LEU:CB	2.32	0.78
1:B:29:TRP:NE1	1:B:34:LEU:HB2	1.98	0.78
1:B:173:ILE:HG13	1:B:190:VAL:HG11	1.65	0.78
1:B:293:LEU:HD23	1:B:307:LEU:HD21	1.64	0.78
2:C:123:MET:HG3	2:C:132:MET:HG3	1.66	0.78
1:A:191:ILE:HD11	1:A:224:LEU:HD23	1.66	0.77
1:B:716:ILE:HA	1:B:719:GLN:HB2	1.65	0.77
2:D:150:GLY:H	2:D:165:ILE:HB	1.49	0.77
1:B:70:LEU:HB3	1:B:75:ILE:HD11	1.66	0.77
2:D:188:TYR:HE2	2:D:256:ARG:HB3	1.49	0.77
1:A:816:GLN:NE2	3:H:37:ALA:O	2.17	0.77
1:B:352:ILE:HG13	1:B:620:PHE:CE2	2.19	0.77
2:D:176:MET:SD	2:D:277:THR:OG1	2.42	0.77
1:A:621:VAL:HG13	1:A:625:TRP:CZ3	2.19	0.77
1:B:359:VAL:HG21	1:B:435:PHE:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:156:ILE:HG22	1:A:173:ILE:HD12	1.67	0.77
1:A:288:HIS:HB3	1:A:292:TYR:CZ	2.20	0.77
1:B:313:TYR:CG	1:B:360:LEU:HB3	2.20	0.77
1:B:349:GLN:O	1:B:353:LEU:HG	1.85	0.77
2:D:8:LEU:HD22	2:D:94:LEU:HD22	1.66	0.77
2:D:90:PHE:HB2	2:D:98:PRO:HG3	1.66	0.77
1:A:705:LEU:HB3	1:A:711:LEU:HB2	1.66	0.77
1:B:2:SER:N	1:B:141:TYR:OH	2.16	0.77
1:B:392:GLY:HA3	1:B:618:ASP:H	1.50	0.77
1:B:437:ARG:HH21	1:B:605:LEU:HD21	1.49	0.77
1:A:340:THR:OG1	1:A:349:GLN:NE2	2.17	0.77
1:B:705:LEU:O	1:B:710:VAL:N	2.17	0.77
1:B:13:LEU:HD11	1:B:152:HIS:HB2	1.64	0.77
1:B:418:GLN:HB2	1:B:422:GLN:HB2	1.65	0.77
2:C:185:LEU:HD11	2:C:261:LEU:HB2	1.67	0.77
2:C:166:TYR:HA	2:D:44:MET:HG3	1.65	0.77
1:A:194:LEU:HD11	1:A:461:LEU:HD13	1.65	0.77
1:B:186:ASN:ND2	1:B:684:CYS:SG	2.57	0.77
1:B:220:LEU:HB2	1:B:265:ALA:HB3	1.65	0.77
1:B:402:ILE:HG13	1:B:609:VAL:HG21	1.66	0.77
1:B:731:ARG:NH1	1:B:753:CYS:SG	2.58	0.77
1:A:132:ILE:O	1:A:152:HIS:NE2	2.18	0.76
1:A:346:GLU:HA	1:A:349:GLN:HB2	1.66	0.76
1:A:532:THR:HG22	1:A:533:ASN:H	1.51	0.76
2:D:35:VAL:HG11	2:D:84:LYS:HD3	1.65	0.76
1:A:255:ASN:HB3	1:A:457:GLY:HA2	1.67	0.76
1:A:810:LYS:HB2	3:H:147:VAL:HG13	1.67	0.76
2:D:252:ASN:HA	2:D:255:PHE:CZ	2.20	0.76
1:A:368:LYS:HB2	1:A:376:ALA:HA	1.67	0.76
1:B:148:GLU:OE2	1:B:162:ARG:NH2	2.18	0.76
1:B:344:PHE:O	1:B:349:GLN:NE2	2.19	0.76
2:C:188:TYR:HE2	2:C:256:ARG:HB3	1.49	0.76
1:B:621:VAL:HA	1:B:624:LEU:HD12	1.66	0.76
3:H:28:TYR:HB2	3:H:59:MET:HA	1.66	0.76
1:A:237:ALA:HB3	1:A:247:ARG:HG3	1.66	0.76
1:B:289:ILE:HD13	1:B:335:THR:HG21	1.67	0.76
1:B:406:ARG:HB3	1:B:413:VAL:HG12	1.68	0.76
2:C:153:LEU:HD21	2:C:274:ILE:HD11	1.68	0.76
1:A:107:ARG:NH2	1:A:114:TYR:O	2.14	0.76
1:B:107:ARG:HE	1:B:115:THR:HG22	1.50	0.76
1:B:165:LEU:HB2	1:B:260:GLY:HA3	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:LEU:HA	1:A:104:LEU:HD12	1.66	0.76
1:B:164:MET:O	1:B:168:ARG:NH1	2.19	0.76
1:B:799:PHE:CE1	3:E:127:LEU:HD11	2.21	0.76
4:F:142:TYR:HA	4:F:147:ILE:HD11	1.68	0.76
1:A:49:ILE:HG23	1:A:57:VAL:HG13	1.67	0.75
1:A:349:GLN:O	1:A:353:LEU:HG	1.85	0.75
2:C:356:TRP:O	2:C:373:LYS:NZ	2.14	0.75
1:A:121:CYS:H	1:A:146:ARG:HH22	1.33	0.75
1:B:289:ILE:O	1:B:293:LEU:N	2.17	0.75
2:D:12:ASN:HA	2:D:17:VAL:HG22	1.68	0.75
2:D:20:GLY:HA3	2:D:340:TRP:CZ2	2.21	0.75
1:A:88:ASP:OD1	1:A:118:GLY:N	2.17	0.75
1:A:302:ARG:O	1:A:307:LEU:N	2.13	0.75
1:B:45:GLU:OE2	1:B:64:ASN:ND2	2.19	0.75
1:B:484:TYR:HE1	1:B:525:ILE:HG23	1.51	0.75
2:D:226:GLU:HB3	2:D:236:LEU:HD12	1.68	0.75
1:A:359:VAL:HG13	1:A:431:ALA:HB1	1.69	0.75
1:B:276:ARG:HH21	1:B:478:GLU:HG3	1.52	0.75
1:B:803:CYS:HB2	3:E:127:LEU:HD13	1.67	0.75
1:A:179:SER:HB2	1:A:246:SER:HB2	1.68	0.75
1:A:713:GLY:HA2	1:A:716:ILE:HD12	1.68	0.75
1:B:715:ARG:O	1:B:719:GLN:N	2.18	0.75
2:D:62:ARG:NH2	2:D:211:ASP:OD2	2.20	0.75
2:D:111:ASN:OD1	2:D:177:ARG:NH2	2.19	0.75
1:A:345:THR:HG23	1:A:348:GLU:H	1.52	0.75
1:B:295:ALA:HB3	1:B:328:ASP:HB2	1.68	0.75
1:B:381:ASN:HB2	1:B:384:ALA:HB3	1.67	0.75
1:B:485:THR:HA	1:B:667:LEU:HD13	1.67	0.75
2:D:180:LEU:HD21	2:D:261:LEU:HA	1.67	0.75
2:D:260:THR:HG22	2:D:266:PHE:HB2	1.69	0.75
3:H:104:MET:HB2	3:H:107:GLU:HB3	1.68	0.75
3:H:131:HIS:HB2	3:H:138:ILE:HG23	1.68	0.75
1:B:34:LEU:O	1:B:78:MET:N	2.19	0.75
1:A:339:MET:SD	1:A:352:ILE:HD13	2.26	0.74
1:B:438:LEU:HA	1:B:624:LEU:HD22	1.68	0.74
1:B:490:GLN:HA	1:B:493:PHE:HB3	1.68	0.74
1:B:732:GLN:HG2	1:B:744:LYS:HE3	1.68	0.74
2:D:117:GLU:HA	2:D:367:PRO:HB2	1.68	0.74
3:E:128:VAL:HG13	3:E:138:ILE:HG21	1.66	0.74
1:A:123:VAL:H	1:A:683:ARG:HB2	1.53	0.74
1:A:802:GLN:O	1:A:806:TYR:HB2	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:306:LEU:HB2	1:B:390:LEU:HD21	1.69	0.74
1:A:12:PHE:HD1	1:A:111:GLY:HA3	1.50	0.74
1:B:161:TYR:O	1:B:164:MET:N	2.20	0.74
2:C:302:GLY:HA2	2:C:336:LYS:HD3	1.69	0.74
4:F:58:ALA:HA	4:F:62:LYS:HA	1.69	0.74
1:A:229:PRO:HA	1:A:232:GLU:HB2	1.69	0.74
1:A:602:MET:HG3	1:A:604:PRO:HD3	1.69	0.74
1:B:355:VAL:HG21	1:B:624:LEU:HD13	1.69	0.74
1:B:527:LEU:HD21	1:B:583:ILE:HG23	1.67	0.74
1:B:804:ARG:NH1	3:E:43:THR:OG1	2.19	0.74
1:B:807:LEU:HD11	3:E:126:GLN:HB2	1.69	0.74
1:B:809:ARG:NH2	3:E:41:ASN:OD1	2.21	0.74
3:E:127:LEU:O	3:E:131:HIS:ND1	2.20	0.74
4:F:29:GLN:HE22	4:F:94:ASN:HD21	1.35	0.74
1:B:292:TYR:HB3	1:B:332:PHE:HB2	1.69	0.74
1:B:756:MET:O	1:B:760:LEU:HB2	1.88	0.74
3:H:92:LEU:HA	3:H:95:PHE:HB2	1.69	0.74
1:A:79:ASN:ND2	1:A:99:SER:OG	2.19	0.74
1:A:446:VAL:O	1:A:450:LEU:HB2	1.88	0.74
1:A:269:THR:HG23	1:A:443:LEU:HD13	1.68	0.74
2:C:297:ASN:HB3	2:C:329:ILE:HA	1.70	0.74
2:C:300:SER:HA	2:C:335:ARG:HB3	1.69	0.74
1:A:323:ILE:HB	1:A:326:GLN:HB2	1.69	0.74
1:A:799:PHE:O	1:A:803:CYS:HB2	1.88	0.74
1:B:94:CYS:HA	1:B:778:THR:HB	1.67	0.74
1:A:116:TYR:CZ	1:A:151:PRO:HA	2.23	0.74
1:A:122:VAL:HG22	1:A:710:VAL:HG11	1.70	0.74
1:A:294:ILE:HD12	1:A:316:LEU:HD12	1.69	0.74
1:B:72:LYS:HA	1:B:75:ILE:HB	1.69	0.74
2:C:35:VAL:HG22	2:C:54:VAL:HA	1.70	0.74
1:A:79:ASN:ND2	1:A:94:CYS:O	2.19	0.73
1:A:158:ASP:OD1	1:A:193:TYR:OH	2.06	0.73
2:D:87:HIS:HA	2:D:91:TYR:HB2	1.69	0.73
3:H:25:LYS:HE2	3:H:63:THR:HG23	1.70	0.73
1:A:138:ILE:HG12	1:A:193:TYR:HA	1.69	0.73
1:B:612:LEU:HA	1:B:615:GLN:HB2	1.70	0.73
2:C:152:VAL:O	2:C:162:ASN:HA	1.87	0.73
2:C:332:PRO:HD2	2:C:335:ARG:HG2	1.70	0.73
1:A:127:TYR:HE1	1:A:181:ALA:HB1	1.53	0.73
2:C:19:ALA:HA	2:C:89:THR:HG23	1.68	0.73
2:C:369:ILE:HA	2:C:372:ARG:HB2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:105:LEU:HD11	2:D:123:MET:HG3	1.70	0.73
2:D:251:GLY:N	2:D:253:GLU:OE1	2.19	0.73
1:B:585:HIS:HD2	1:B:590:VAL:HB	1.52	0.73
1:B:731:ARG:HA	1:B:756:MET:SD	2.28	0.73
2:D:297:ASN:HD22	2:D:317:ILE:HG13	1.51	0.73
3:E:89:VAL:HA	3:E:140:TYR:HE2	1.53	0.73
1:B:292:TYR:CE1	1:B:331:MET:HE3	2.23	0.73
1:B:294:ILE:O	1:B:302:ARG:NE	2.20	0.73
1:B:496:THR:OG1	1:B:675:ARG:NH1	2.22	0.73
2:C:8:LEU:HB2	2:C:103:THR:HG22	1.68	0.73
2:C:129:VAL:O	2:C:359:LYS:HB2	1.89	0.73
2:C:138:ALA:HB2	2:C:161:HIS:HB2	1.71	0.73
2:C:292:ASP:HB3	2:D:45:VAL:HB	1.70	0.73
2:D:132:MET:O	2:D:357:ILE:N	2.20	0.73
1:A:271:LEU:H	1:A:666:GLN:HB3	1.54	0.73
1:A:393:ILE:HB	1:A:612:LEU:HG	1.69	0.73
1:B:452:LYS:HD3	1:B:454:LYS:HE3	1.69	0.73
1:B:508:GLU:HG3	1:B:773:LYS:HB2	1.71	0.73
2:D:8:LEU:O	2:D:104:LEU:N	2.21	0.73
2:D:104:LEU:HD12	2:D:352:PHE:HD1	1.53	0.73
2:D:181:ALA:HB3	2:D:183:ARG:HG2	1.70	0.73
3:H:27:LEU:O	3:H:31:CYS:N	2.20	0.73
1:A:17:LYS:HE2	1:A:86:VAL:HG12	1.70	0.73
1:A:173:ILE:HG12	1:A:461:LEU:HD21	1.71	0.73
2:D:162:ASN:HB2	2:D:176:MET:HE2	1.70	0.73
1:A:160:ALA:HA	1:A:171:GLN:HG3	1.71	0.73
1:A:355:VAL:HG11	1:A:438:LEU:HB2	1.71	0.73
1:A:438:LEU:HA	1:A:624:LEU:HD11	1.69	0.73
1:A:659:VAL:HG12	1:A:662:LEU:HD12	1.69	0.73
1:B:107:ARG:NH2	1:B:114:TYR:O	2.22	0.73
1:B:543:GLU:HA	1:B:546:TRP:CE3	2.24	0.73
3:H:46:GLU:HA	3:H:49:LYS:HB3	1.70	0.73
1:B:117:SER:HB3	1:B:714:ILE:HD11	1.69	0.73
2:C:226:GLU:HB2	2:C:236:LEU:HD13	1.71	0.73
1:A:138:ILE:O	1:A:142:LYS:N	2.20	0.72
1:B:785:GLU:HA	1:B:788:ARG:CZ	2.20	0.72
2:D:370:VAL:O	2:D:374:CYS:N	2.20	0.72
1:B:15:VAL:HG22	1:B:107:ARG:HH12	1.54	0.72
1:B:143:GLY:HA2	1:B:162:ARG:HD3	1.69	0.72
2:D:104:LEU:HG	2:D:133:TYR:HB3	1.71	0.72
1:B:57:VAL:HG12	1:B:59:VAL:HG13	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:LEU:HG	1:B:166:GLN:HG2	1.71	0.72
1:B:736:ILE:HB	3:E:94:VAL:HG21	1.71	0.72
2:C:10:CYS:N	2:C:104:LEU:O	2.21	0.72
2:C:121:GLN:O	2:C:125:GLU:N	2.22	0.72
1:A:44:PHE:HD1	1:A:98:ALA:HA	1.54	0.72
1:A:254:ILE:HD11	1:A:463:ILE:HD11	1.72	0.72
1:A:285:ARG:HH12	1:A:288:HIS:HA	1.54	0.72
1:B:114:TYR:HE1	1:B:153:ILE:HG13	1.55	0.72
1:B:154:TYR:HA	1:B:157:ALA:HB3	1.71	0.72
2:C:1:ASP:HB2	2:C:6:THR:HG21	1.71	0.72
2:C:18:LYS:HA	2:C:29:ALA:O	1.90	0.72
2:D:185:LEU:HB3	2:D:257:CYS:HB3	1.70	0.72
2:D:233:SER:HA	2:D:237:GLU:HB3	1.70	0.72
3:H:89:VAL:O	3:H:93:ARG:HB2	1.89	0.72
1:A:180:GLY:H	1:A:183:LYS:HB3	1.53	0.72
1:B:171:GLN:N	1:B:460:PHE:O	2.17	0.72
1:B:256:PHE:HB3	1:B:260:GLY:HA2	1.71	0.72
2:C:358:THR:HB	2:C:361:GLU:H	1.55	0.72
2:D:79:TRP:O	2:D:83:GLU:N	2.23	0.72
1:A:190:VAL:HG11	1:A:463:ILE:HG12	1.71	0.72
1:A:194:LEU:HD22	1:A:256:PHE:HZ	1.54	0.72
1:A:712:GLU:OE1	1:A:715:ARG:NH2	2.21	0.72
1:B:808:ALA:CB	3:E:36:ARG:HD2	2.20	0.72
2:D:20:GLY:HA3	2:D:340:TRP:HZ2	1.55	0.72
1:A:436:GLU:OE1	1:A:437:ARG:NH1	2.21	0.72
1:B:275:SER:HB2	1:B:600:LYS:HD2	1.72	0.72
1:B:531:PRO:HA	1:B:539:ALA:HB1	1.71	0.72
3:E:85:PHE:HA	3:E:88:TYR:HB2	1.71	0.72
2:C:16:LEU:HA	2:C:32:PRO:HA	1.70	0.72
3:E:131:HIS:HB3	3:E:143:LEU:HA	1.72	0.72
1:A:381:ASN:O	1:A:385:GLN:N	2.22	0.72
1:B:238:LYS:HE2	1:B:324:PRO:HG2	1.72	0.72
1:A:267:ILE:H	1:A:450:LEU:HD21	1.54	0.72
1:A:280:GLN:NE2	1:A:317:SER:O	2.23	0.72
1:B:35:VAL:HG23	1:B:47:ALA:H	1.53	0.72
2:D:248:ILE:HG22	2:D:250:ILE:HG13	1.72	0.72
3:E:11:PHE:HD1	3:E:38:LEU:HD13	1.52	0.72
1:A:435:PHE:CD1	1:A:438:LEU:HD23	2.25	0.71
1:A:688:ASN:HA	1:A:700:LEU:HD13	1.70	0.71
1:B:3:GLN:HA	1:B:14:PHE:HA	1.72	0.71
1:B:145:LYS:HG3	1:B:162:ARG:HH21	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:234:PHE:CD1	1:B:289:ILE:HG21	2.25	0.71
1:B:389:HIS:HD2	1:B:390:LEU:HD23	1.55	0.71
1:B:804:ARG:O	3:E:36:ARG:NH1	2.23	0.71
2:C:162:ASN:ND2	2:C:281:SER:OG	2.22	0.71
1:A:160:ALA:O	1:A:164:MET:HG3	1.89	0.71
1:A:357:SER:HA	1:A:360:LEU:HD12	1.71	0.71
1:A:393:ILE:HG21	1:A:613:LEU:HA	1.72	0.71
1:A:530:ARG:NH1	1:A:565:ASN:O	2.22	0.71
1:B:26:GLN:NE2	1:B:786:GLU:O	2.23	0.71
1:B:231:LEU:O	1:B:236:ASN:N	2.16	0.71
1:B:339:MET:HB3	1:B:344:PHE:HB2	1.70	0.71
2:C:8:LEU:N	2:C:102:PRO:O	2.23	0.71
2:C:117:GLU:HA	2:C:367:PRO:HB2	1.71	0.71
3:E:20:ARG:HG2	3:E:30:GLN:HE22	1.55	0.71
1:A:11:LYS:HA	1:A:14:PHE:HB3	1.72	0.71
1:B:35:VAL:HG21	1:B:75:ILE:HA	1.71	0.71
1:B:393:ILE:HB	1:B:612:LEU:HG	1.71	0.71
2:D:105:LEU:N	2:D:133:TYR:O	2.22	0.71
1:A:306:LEU:HD13	1:A:386:LYS:HG2	1.70	0.71
2:D:82:MET:HA	2:D:85:ILE:HB	1.72	0.71
2:D:242:LEU:HD12	2:D:243:PRO:HD2	1.72	0.71
1:A:35:VAL:HG12	1:A:45:GLU:H	1.55	0.71
1:A:297:ALA:HB1	1:A:301:MET:HB2	1.73	0.71
1:B:120:PHE:CZ	1:B:497:MET:HB2	2.24	0.71
1:B:224:LEU:HD22	1:B:252:ILE:HG12	1.72	0.71
1:A:13:LEU:HG	1:A:150:PRO:HB2	1.73	0.71
1:A:289:ILE:HA	1:A:292:TYR:HB2	1.73	0.71
1:A:401:SER:OG	1:A:606:ASN:ND2	2.20	0.71
1:B:281:ALA:HB1	1:B:474:ILE:HG21	1.72	0.71
2:D:62:ARG:HA	2:D:65:LEU:HB2	1.71	0.71
3:E:12:LYS:HZ3	3:E:66:PHE:HB2	1.55	0.71
4:G:50:LYS:HG2	4:G:69:LEU:HD22	1.71	0.71
1:A:232:GLU:O	1:A:288:HIS:ND1	2.24	0.71
1:B:177:GLY:O	1:B:468:GLY:N	2.16	0.71
1:B:223:GLN:HB2	1:B:450:LEU:HA	1.73	0.71
3:E:89:VAL:HA	3:E:140:TYR:CE2	2.26	0.71
1:B:355:VAL:HG11	1:B:438:LEU:HB2	1.73	0.71
1:B:415:GLN:HE21	1:B:417:ALA:HB2	1.56	0.71
2:C:202:THR:HG23	2:C:205:GLU:H	1.55	0.71
2:C:297:ASN:HD21	2:C:317:ILE:HG13	1.55	0.71
2:D:8:LEU:HB3	2:D:94:LEU:HD13	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:47:MET:SD	2:D:49:GLN:NE2	2.64	0.71
1:A:711:LEU:HD12	1:A:714:ILE:HD12	1.72	0.71
1:A:834:LYS:HZ1	4:G:161:ILE:HD12	1.54	0.71
1:B:492:LEU:HD13	1:B:675:ARG:HB2	1.72	0.71
2:C:67:LEU:HD13	2:C:204:ALA:HA	1.72	0.71
2:D:31:PHE:HB2	2:D:55:GLY:HA3	1.71	0.71
2:D:88:HIS:HA	2:D:92:ASN:HB2	1.71	0.71
3:H:105:GLY:N	3:H:136:GLY:O	2.23	0.71
1:B:443:LEU:HA	1:B:446:VAL:HB	1.73	0.71
1:B:621:VAL:HG13	1:B:625:TRP:CZ3	2.26	0.71
2:C:304:THR:HA	2:C:309:ILE:HG12	1.72	0.71
1:B:221:GLU:OE1	1:B:221:GLU:N	2.21	0.70
2:C:62:ARG:HD2	2:C:208:ILE:HG13	1.72	0.70
2:C:73:HIS:O	2:C:177:ARG:NH2	2.24	0.70
2:D:153:LEU:HD21	2:D:274:ILE:HD11	1.72	0.70
1:B:108:TYR:CD1	1:B:113:ILE:HG13	2.26	0.70
2:D:300:SER:HA	2:D:335:ARG:HG3	1.72	0.70
3:E:11:PHE:CD1	3:E:38:LEU:HD13	2.26	0.70
3:E:36:ARG:HE	3:E:47:VAL:HG21	1.55	0.70
1:A:80:PRO:HB2	1:A:82:LYS:HG2	1.72	0.70
1:B:133:TYR:HB3	1:B:189:LYS:HD3	1.73	0.70
1:B:542:ASP:OD2	1:B:664:LYS:NZ	2.24	0.70
2:C:156:GLY:HA2	2:C:182:GLY:H	1.56	0.70
1:A:13:LEU:HD21	1:A:152:HIS:HB2	1.72	0.70
1:A:13:LEU:HD22	1:A:152:HIS:HD2	1.57	0.70
2:C:79:TRP:CE3	2:C:122:ILE:HD11	2.27	0.70
3:E:105:GLY:HA2	3:E:108:ILE:HG22	1.73	0.70
1:A:125:ASN:N	1:A:685:ILE:O	2.19	0.70
1:A:806:TYR:HA	3:H:41:ASN:HD22	1.55	0.70
1:B:466:ILE:HD12	1:B:670:LEU:HD23	1.72	0.70
1:B:730:PHE:CE2	1:B:756:MET:HB2	2.27	0.70
2:C:212:ILE:HG21	2:C:250:ILE:HG12	1.73	0.70
3:E:124:VAL:HA	3:E:127:LEU:HD23	1.73	0.70
1:B:228:ASN:O	1:B:232:GLU:N	2.24	0.70
1:A:49:ILE:HA	1:A:59:VAL:HA	1.74	0.70
1:A:307:LEU:HD23	1:A:313:TYR:HE2	1.57	0.70
1:A:492:LEU:HD22	1:A:675:ARG:HB2	1.73	0.70
1:B:16:ASP:H	1:B:112:LEU:CD1	2.04	0.70
1:B:737:LEU:HB3	1:B:760:LEU:HD21	1.73	0.70
2:C:10:CYS:HB2	2:C:90:PHE:CZ	2.26	0.70
2:C:236:LEU:HB3	2:C:255:PHE:CE1	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:229:THR:O	2:D:234:SER:OG	2.10	0.70
1:A:226:GLN:HG3	1:A:341:ILE:HG21	1.73	0.70
1:B:398:PHE:HA	1:B:609:VAL:HG22	1.73	0.70
2:C:94:LEU:HB3	2:C:96:VAL:HG22	1.74	0.70
2:D:360:GLN:O	2:D:364:GLU:HG3	1.90	0.70
1:B:50:LYS:H	1:B:59:VAL:HG12	1.57	0.70
2:C:233:SER:HA	2:C:237:GLU:HB3	1.73	0.70
1:A:128:LYS:HE3	1:A:130:LEU:HD11	1.72	0.70
1:B:26:GLN:HG3	1:B:789:ASP:HB2	1.74	0.70
2:C:14:SER:HG	2:C:74:GLY:H	1.40	0.70
3:H:103:VAL:O	3:H:138:ILE:N	2.25	0.70
1:A:123:VAL:O	1:A:685:ILE:N	2.24	0.69
1:A:220:LEU:HD13	1:A:264:GLY:HA2	1.74	0.69
1:B:302:ARG:O	1:B:307:LEU:N	2.25	0.69
1:B:812:PHE:CZ	3:E:34:VAL:HA	2.27	0.69
2:C:151:ILE:HG12	2:C:282:ILE:HG12	1.74	0.69
2:D:16:LEU:HA	2:D:32:PRO:HA	1.73	0.69
1:A:276:ARG:NH2	1:A:479:GLN:OE1	2.25	0.69
1:A:534:PRO:HB2	1:A:562:GLU:HG2	1.75	0.69
2:C:20:GLY:HA3	2:C:340:TRP:CZ2	2.28	0.69
2:C:59:GLN:HB3	2:C:62:ARG:HH21	1.54	0.69
2:C:74:GLY:HA3	2:C:108:ALA:HB2	1.73	0.69
2:D:189:LEU:HA	2:D:192:ILE:HD11	1.74	0.69
3:H:48:MET:HG2	3:H:59:MET:HG2	1.74	0.69
1:B:292:TYR:HA	1:B:328:ASP:HB3	1.73	0.69
2:C:115:ASN:HA	2:C:118:LYS:HD2	1.73	0.69
2:D:259:GLU:HB3	2:D:266:PHE:HE2	1.57	0.69
3:H:75:THR:HA	3:H:78:LYS:HD2	1.74	0.69
1:A:92:LEU:HD11	1:A:103:ASN:HD21	1.55	0.69
1:A:301:MET:O	1:A:305:LEU:HG	1.92	0.69
1:B:58:THR:O	1:B:67:LYS:NZ	2.26	0.69
2:D:123:MET:HG3	2:D:132:MET:HG3	1.72	0.69
4:F:123:ARG:NH1	4:F:133:PHE:O	2.26	0.69
1:A:72:LYS:HA	1:A:75:ILE:HB	1.74	0.69
1:A:223:GLN:O	1:A:227:ALA:N	2.24	0.69
1:A:492:LEU:HD13	1:A:674:LEU:HB2	1.74	0.69
1:A:508:GLU:HG2	1:A:770:GLY:HA3	1.73	0.69
1:A:731:ARG:O	1:A:735:GLU:N	2.25	0.69
1:B:31:ALA:HA	1:B:786:GLU:HB3	1.74	0.69
1:B:411:ARG:N	2:C:28:ARG:HG3	2.07	0.69
3:E:140:TYR:HA	3:E:143:LEU:HB3	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:78:MET:SD	1:A:102:HIS:ND1	2.65	0.69
1:B:47:ALA:HB2	1:B:61:LEU:HA	1.73	0.69
1:B:730:PHE:HE2	1:B:756:MET:HB2	1.56	0.69
2:C:18:LYS:HG3	2:C:30:VAL:HG22	1.75	0.69
2:D:87:HIS:O	2:D:92:ASN:N	2.24	0.69
1:A:386:LYS:O	1:A:390:LEU:HG	1.92	0.69
1:A:485:THR:HA	1:A:667:LEU:HD13	1.73	0.69
1:B:173:ILE:HG21	1:B:190:VAL:HG21	1.75	0.69
1:B:234:PHE:HB2	1:B:439:PHE:CD1	2.28	0.69
1:B:437:ARG:HH22	1:B:610:THR:HG21	1.58	0.69
1:B:491:GLN:HA	1:B:521:LEU:HD13	1.75	0.69
1:B:793:THR:HA	3:E:115:LEU:HD13	1.74	0.69
2:D:79:TRP:HA	2:D:82:MET:HB2	1.74	0.69
2:D:162:ASN:ND2	2:D:278:THR:OG1	2.26	0.69
1:A:367:PHE:HA	1:A:378:MET:HA	1.75	0.69
2:C:259:GLU:O	2:C:263:GLN:N	2.26	0.69
2:C:262:PHE:HA	2:C:274:ILE:HG22	1.74	0.69
2:D:54:VAL:HG22	2:D:84:LYS:HB3	1.74	0.69
1:A:672:THR:O	1:A:676:ASN:N	2.25	0.69
1:B:138:ILE:HG21	1:B:196:VAL:HB	1.75	0.69
2:C:78:ASN:O	2:C:82:MET:N	2.24	0.69
2:C:86:TRP:CE2	2:C:105:LEU:HD13	2.28	0.69
4:F:99:GLU:HB2	4:F:159:THR:HB	1.74	0.69
1:A:89:MET:HB3	1:A:100:VAL:HG22	1.75	0.68
1:A:146:ARG:NH2	1:A:681:PHE:O	2.26	0.68
1:A:394:ASN:H	1:A:612:LEU:HD11	1.58	0.68
1:B:280:GLN:OE1	1:B:317:SER:OG	2.11	0.68
1:B:365:ILE:HG21	1:B:398:PHE:HE2	1.57	0.68
1:B:376:ALA:HB1	1:B:403:LEU:HB3	1.74	0.68
2:C:285:CYS:HB3	2:C:289:ILE:HG22	1.75	0.68
1:A:15:VAL:HG11	1:A:87:GLU:N	2.08	0.68
1:A:25:ALA:HB3	1:A:786:GLU:HA	1.74	0.68
1:A:336:LEU:HD21	1:A:353:LEU:HD11	1.76	0.68
1:B:346:GLU:HA	1:B:349:GLN:HB2	1.75	0.68
2:D:47:MET:HE2	2:D:49:GLN:H	1.59	0.68
1:B:105:ARG:NH2	1:B:106:GLU:OE2	2.26	0.68
1:B:101:LEU:HB3	1:B:698:ALA:HB1	1.73	0.68
1:B:125:ASN:N	1:B:685:ILE:O	2.25	0.68
1:B:469:PHE:CZ	1:B:586:TYR:HB3	2.28	0.68
1:B:487:GLU:OE2	1:B:585:HIS:ND1	2.26	0.68
1:B:568:LYS:HB3	1:B:584:LEU:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:263:VAL:HB	1:A:455:ARG:HA	1.76	0.68
1:B:107:ARG:HB3	1:B:112:LEU:HB2	1.74	0.68
1:B:114:TYR:HB3	1:B:151:PRO:O	1.93	0.68
1:B:173:ILE:HB	1:B:463:ILE:HG23	1.75	0.68
1:B:276:ARG:NH2	1:B:284:GLU:OE2	2.27	0.68
2:D:198:TYR:HB3	2:D:248:ILE:HD12	1.75	0.68
3:H:92:LEU:O	3:H:96:ASP:N	2.26	0.68
1:A:441:TRP:HE1	1:A:445:ARG:HH21	1.42	0.68
1:B:736:ILE:HG21	1:B:792:ILE:HD11	1.76	0.68
2:C:182:GLY:HA2	2:C:185:LEU:HB2	1.76	0.68
2:C:213:LYS:O	2:C:217:CYS:HB2	1.94	0.68
2:D:188:TYR:CE2	2:D:256:ARG:HB3	2.28	0.68
1:B:123:VAL:HG21	1:B:153:ILE:HD11	1.75	0.68
1:B:586:TYR:O	1:B:706:ARG:NE	2.24	0.68
2:C:289:ILE:HD13	2:D:44:MET:HG2	1.75	0.68
2:D:313:MET:O	2:D:317:ILE:HG12	1.93	0.68
3:H:15:PHE:HE2	3:H:31:CYS:HB2	1.59	0.68
3:H:44:ASN:HA	3:H:47:VAL:HB	1.75	0.68
1:B:323:ILE:HB	1:B:331:MET:HE1	1.76	0.68
2:C:188:TYR:CE2	2:C:256:ARG:HB3	2.29	0.68
2:D:189:LEU:HB2	2:D:257:CYS:SG	2.34	0.68
1:B:141:TYR:HA	1:B:144:LYS:HB2	1.76	0.68
1:B:708:ASN:HB2	1:B:710:VAL:HG23	1.76	0.68
2:D:37:ARG:NE	2:D:51:ASP:O	2.21	0.68
2:D:208:ILE:HD11	2:D:242:LEU:HD13	1.75	0.68
1:B:537:VAL:HG21	1:B:583:ILE:HD11	1.76	0.68
1:B:757:ILE:HD11	1:B:774:ILE:HG21	1.76	0.68
1:B:805:GLY:HA3	3:E:41:ASN:HA	1.75	0.68
2:C:62:ARG:NH2	2:C:211:ASP:OD1	2.27	0.68
3:E:125:GLU:O	3:E:129:ALA:N	2.27	0.68
1:A:244:ASN:HA	1:A:288:HIS:HE1	1.58	0.67
1:A:807:LEU:HD13	3:H:124:VAL:HA	1.75	0.67
1:B:722:PRO:HD2	1:B:777:ARG:HA	1.76	0.67
2:C:51:ASP:OD2	2:C:52:SER:N	2.27	0.67
3:H:4:SER:H	3:H:7:GLN:HE22	1.41	0.67
1:A:316:LEU:HG	1:A:360:LEU:HD21	1.75	0.67
1:A:418:GLN:HA	2:D:333:PRO:HB3	1.76	0.67
1:B:138:ILE:HD13	1:B:196:VAL:HB	1.74	0.67
1:B:357:SER:HA	1:B:360:LEU:HD12	1.75	0.67
1:B:533:ASN:H	2:C:353:GLN:HE22	1.42	0.67
1:B:709:GLY:O	1:B:713:GLY:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:815:ARG:O	3:E:20:ARG:NH1	2.27	0.67
2:C:282:ILE:HG23	2:C:293:LEU:HB2	1.75	0.67
1:A:145:LYS:HA	1:A:162:ARG:HH22	1.59	0.67
1:A:359:VAL:HG21	1:A:435:PHE:HB2	1.75	0.67
1:B:769:ILE:HD13	1:B:774:ILE:HG12	1.76	0.67
2:C:252:ASN:HA	2:C:255:PHE:CZ	2.29	0.67
2:D:10:CYS:HB2	2:D:89:THR:HG21	1.76	0.67
1:B:793:THR:HG23	3:E:115:LEU:HD22	1.75	0.67
3:H:127:LEU:HD12	3:H:143:LEU:HD11	1.76	0.67
1:A:785:GLU:HB3	1:A:788:ARG:HH21	1.59	0.67
1:A:804:ARG:HH12	3:H:113:VAL:HA	1.58	0.67
1:B:194:LEU:HD13	1:B:256:PHE:HZ	1.58	0.67
1:B:568:LYS:HD2	1:B:584:LEU:HB2	1.76	0.67
1:B:604:PRO:HA	1:B:655:MET:HA	1.75	0.67
2:D:216:LEU:HD23	2:D:238:LYS:HG2	1.77	0.67
3:E:28:TYR:CD1	3:E:51:LEU:HD22	2.29	0.67
1:A:127:TYR:CE1	1:A:181:ALA:HB1	2.29	0.67
1:A:48:SER:OG	1:A:62:GLN:NE2	2.27	0.67
1:A:346:GLU:O	1:A:350:THR:OG1	2.08	0.67
1:A:401:SER:OG	1:A:609:VAL:HG23	1.95	0.67
1:A:506:GLN:OE1	1:A:513:ASN:ND2	2.28	0.67
1:A:834:LYS:HG2	1:A:835:LEU:HG	1.77	0.67
1:B:501:GLU:OE2	1:B:724:ARG:NH2	2.28	0.67
1:B:757:ILE:O	1:B:761:GLU:N	2.27	0.67
2:C:70:PRO:HB2	2:C:82:MET:HG2	1.77	0.67
2:C:73:HIS:HA	2:C:159:VAL:HB	1.76	0.67
2:D:99:GLU:HG2	2:D:128:ASN:HB2	1.77	0.67
2:D:156:GLY:HA2	2:D:302:GLY:N	2.05	0.67
4:F:148:ASP:OD2	4:F:150:LYS:NZ	2.27	0.67
1:B:714:ILE:HG22	1:B:718:ARG:HH21	1.60	0.67
2:C:131:ALA:HB1	2:C:356:TRP:CG	2.29	0.67
2:D:37:ARG:HB2	2:D:68:LYS:HZ2	1.60	0.67
2:D:140:LEU:O	2:D:342:GLY:HA3	1.94	0.67
2:D:356:TRP:NE1	2:D:358:THR:OG1	2.27	0.67
3:H:82:GLN:O	3:H:88:TYR:OH	2.13	0.67
1:A:464:LEU:HD13	1:A:674:LEU:HD21	1.75	0.67
1:B:23:PRO:HB2	3:E:94:VAL:HB	1.77	0.67
1:B:226:GLN:O	1:B:338:ALA:HB1	1.93	0.67
3:E:112:LEU:HD22	3:E:127:LEU:HD21	1.76	0.67
1:A:492:LEU:HD21	1:A:671:MET:HG2	1.77	0.67
1:B:162:ARG:HA	1:B:166:GLN:HG3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:151:ILE:HD13	2:D:278:THR:HG23	1.76	0.67
2:D:239:SER:HB2	2:D:249:THR:HG23	1.77	0.67
2:D:368:SER:HA	2:D:371:HIS:CD2	2.30	0.67
1:A:35:VAL:H	1:A:46:ALA:HA	1.60	0.66
1:A:274:LYS:HG2	1:A:436:GLU:HB2	1.77	0.66
1:B:298:SER:O	1:B:302:ARG:N	2.22	0.66
1:B:302:ARG:HA	1:B:307:LEU:HD12	1.77	0.66
2:C:88:HIS:HA	2:C:92:ASN:HB2	1.75	0.66
2:D:164:PRO:HB2	2:D:293:LEU:HD22	1.76	0.66
1:A:139:ASP:HA	1:A:142:LYS:HB3	1.75	0.66
1:A:234:PHE:HB3	1:A:439:PHE:HB2	1.76	0.66
1:B:85:LYS:HA	1:B:103:ASN:HA	1.76	0.66
1:B:114:TYR:HE2	1:B:130:LEU:HD12	1.59	0.66
2:D:212:ILE:O	2:D:216:LEU:N	2.27	0.66
1:A:58:THR:HA	1:A:68:VAL:O	1.95	0.66
1:A:108:TYR:HB3	1:A:696:LEU:HD12	1.77	0.66
1:A:160:ALA:HB2	1:A:173:ILE:HD11	1.75	0.66
1:A:267:ILE:HG23	1:A:450:LEU:HD21	1.76	0.66
1:A:295:ALA:HB2	1:A:310:PHE:HZ	1.59	0.66
1:A:389:HIS:HD2	1:A:390:LEU:HD23	1.60	0.66
1:B:276:ARG:HG3	1:B:286:THR:HA	1.77	0.66
1:B:536:GLY:HA2	1:B:566:HIS:NE2	2.09	0.66
1:B:802:GLN:NE2	3:E:41:ASN:OD1	2.22	0.66
1:B:850:LEU:HD22	4:F:40:ILE:HG12	1.77	0.66
2:C:317:ILE:HA	2:C:320:LEU:HB2	1.77	0.66
3:H:16:GLN:HA	3:H:19:ASP:HB2	1.76	0.66
1:A:583:ILE:HG22	1:A:585:HIS:HD1	1.59	0.66
1:A:809:ARG:HA	1:A:812:PHE:CE1	2.31	0.66
1:A:810:LYS:HD3	3:H:147:VAL:HG22	1.76	0.66
1:B:44:PHE:HE2	1:B:101:LEU:HD12	1.59	0.66
1:B:153:ILE:HG23	1:B:682:VAL:HG21	1.77	0.66
2:C:67:LEU:H	2:C:203:THR:HG23	1.60	0.66
2:D:218:TYR:HD2	2:D:255:PHE:HB3	1.61	0.66
3:H:36:ARG:NE	3:H:42:PRO:O	2.23	0.66
1:A:47:ALA:HB2	1:A:61:LEU:HD23	1.75	0.66
1:A:163:SER:HA	1:A:167:ASP:HB2	1.76	0.66
1:A:566:HIS:HB3	1:A:569:PHE:HB3	1.78	0.66
1:B:402:ILE:HG13	1:B:606:ASN:HD22	1.59	0.66
1:B:445:ARG:HD3	1:B:448:LYS:HD2	1.76	0.66
2:C:217:CYS:O	2:C:254:ARG:NH2	2.29	0.66
2:D:24:ASP:HB2	2:D:340:TRP:CH2	2.27	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:262:PHE:HA	2:D:274:ILE:HG22	1.75	0.66
1:A:79:ASN:ND2	1:A:92:LEU:HB3	2.11	0.66
1:A:178:GLU:HG3	1:A:242:ASN:HB2	1.77	0.66
1:A:194:LEU:O	1:A:198:ALA:N	2.27	0.66
1:A:219:GLU:HG3	1:A:220:LEU:HG	1.76	0.66
1:B:116:TYR:OH	1:B:146:ARG:O	2.09	0.66
2:D:14:SER:OG	2:D:73:HIS:N	2.28	0.66
2:D:88:HIS:O	2:D:93:GLU:N	2.16	0.66
2:D:262:PHE:HB3	2:D:275:HIS:CE1	2.30	0.66
1:A:86:VAL:HG23	1:A:89:MET:HE1	1.76	0.66
1:A:345:THR:O	1:A:349:GLN:N	2.19	0.66
1:A:456:GLN:HG3	1:A:458:ALA:H	1.59	0.66
2:D:105:LEU:HD21	2:D:123:MET:SD	2.34	0.66
2:D:106:THR:HG21	2:D:339:VAL:HG12	1.77	0.66
2:D:123:MET:SD	2:D:129:VAL:HG21	2.36	0.66
2:D:220:ALA:HB2	2:D:255:PHE:HB2	1.77	0.66
3:E:107:GLU:O	3:E:111:VAL:HG22	1.96	0.66
1:A:362:LEU:HD23	1:A:365:ILE:HD12	1.78	0.66
1:B:437:ARG:NH2	1:B:605:LEU:HD21	2.09	0.66
2:C:12:ASN:HA	2:C:17:VAL:HG22	1.78	0.66
2:C:220:ALA:HB2	2:C:255:PHE:HB2	1.76	0.66
1:A:277:ALA:HB1	1:A:435:PHE:HB3	1.77	0.66
1:B:33:LYS:HD2	1:B:49:ILE:HD12	1.78	0.66
1:B:237:ALA:HB3	1:B:247:ARG:HG3	1.76	0.66
1:B:244:ASN:HD21	1:B:326:GLN:HG3	1.61	0.66
2:C:14:SER:HA	2:C:71:ILE:HB	1.77	0.66
2:C:216:LEU:HD12	2:C:250:ILE:HD13	1.76	0.66
1:A:392:GLY:HA3	1:A:618:ASP:H	1.61	0.66
2:D:98:PRO:HG2	2:D:127:PHE:CD1	2.30	0.66
3:E:105:GLY:N	3:E:136:GLY:O	2.28	0.66
3:H:18:PHE:O	3:H:30:GLN:NE2	2.28	0.66
1:A:141:TYR:HE1	1:A:149:MET:HB2	1.60	0.65
1:B:59:VAL:O	1:B:67:LYS:HA	1.96	0.65
1:B:135:GLU:HA	1:B:138:ILE:HB	1.77	0.65
1:B:530:ARG:NH2	1:B:535:PRO:O	2.30	0.65
2:C:136:ILE:HB	2:C:139:VAL:HB	1.79	0.65
1:A:391:MET:HA	1:A:621:VAL:HG21	1.78	0.65
1:A:801:ALA:O	3:H:43:THR:OG1	2.14	0.65
1:B:4:LYS:HB2	1:B:10:GLU:HB2	1.77	0.65
1:B:688:ASN:HA	1:B:700:LEU:HD13	1.77	0.65
2:C:116:ARG:HH11	2:C:371:HIS:CE1	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:106:THR:HG22	2:D:140:LEU:HD12	1.77	0.65
1:B:556:VAL:HA	1:B:559:LEU:HD12	1.78	0.65
2:C:70:PRO:HA	2:C:78:ASN:HB3	1.77	0.65
2:C:155:SER:HB3	2:C:304:THR:HG23	1.79	0.65
2:D:15:GLY:O	2:D:33:SER:N	2.29	0.65
1:A:371:ARG:NH1	1:A:421:GLU:OE2	2.28	0.65
1:A:683:ARG:NE	1:A:710:VAL:HG22	2.12	0.65
1:B:342:MET:HA	1:B:449:ALA:HB3	1.79	0.65
1:B:386:LYS:O	1:B:390:LEU:HG	1.95	0.65
1:B:505:TYR:OH	1:B:720:GLY:HA3	1.96	0.65
1:A:295:ALA:HB3	1:A:328:ASP:HB3	1.79	0.65
1:A:348:GLU:OE2	1:A:445:ARG:NH2	2.28	0.65
1:B:603:ASP:HB2	1:B:659:VAL:HG23	1.78	0.65
2:C:98:PRO:HB2	2:C:127:PHE:HB3	1.79	0.65
2:D:136:ILE:HD11	2:D:375:PHE:HB2	1.78	0.65
3:E:44:ASN:HA	3:E:47:VAL:HB	1.76	0.65
1:A:279:ARG:NH2	1:A:428:GLU:OE2	2.23	0.65
1:A:419:THR:HG21	1:A:549:LYS:HG2	1.79	0.65
2:C:39:ARG:NH2	2:C:62:ARG:O	2.28	0.65
4:F:99:GLU:OE2	4:F:160:ARG:NH2	2.29	0.65
1:A:72:LYS:HD2	1:A:75:ILE:HB	1.78	0.65
1:A:485:THR:HG23	1:A:667:LEU:HD13	1.79	0.65
1:B:345:THR:O	1:B:349:GLN:N	2.19	0.65
1:A:475:ASN:HA	1:A:479:GLN:HB2	1.79	0.65
1:A:527:LEU:O	1:A:537:VAL:N	2.20	0.65
1:B:160:ALA:O	1:B:171:GLN:HG3	1.96	0.65
1:B:224:LEU:HD13	1:B:267:ILE:HG21	1.79	0.65
1:A:58:THR:HB	1:A:67:LYS:HG2	1.78	0.65
1:A:86:VAL:O	1:A:107:ARG:NH1	2.30	0.65
1:A:116:TYR:CE2	1:A:147:HIS:HA	2.31	0.65
1:A:294:ILE:HD11	1:A:313:TYR:HD2	1.60	0.65
1:B:224:LEU:HD11	1:B:250:LYS:HZ2	1.60	0.65
1:B:367:PHE:HA	1:B:378:MET:HB2	1.78	0.65
1:B:416:LYS:HE2	2:C:333:PRO:HD2	1.79	0.65
2:D:278:THR:HG21	2:D:297:ASN:ND2	2.12	0.65
2:D:368:SER:O	2:D:371:HIS:HB2	1.97	0.65
3:E:41:ASN:HD22	3:E:81:ASP:HA	1.60	0.65
1:A:158:ASP:OD2	1:A:162:ARG:NH1	2.30	0.65
1:A:190:VAL:O	1:A:194:LEU:HG	1.97	0.65
1:A:788:ARG:NH1	1:A:789:ASP:OD1	2.30	0.65
1:B:116:TYR:CZ	1:B:151:PRO:HA	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:278:ILE:HG13	1:B:279:ARG:H	1.61	0.65
1:B:504:GLU:HA	1:B:507:ARG:HD2	1.78	0.65
1:B:570:GLN:O	1:B:582:CYS:N	2.28	0.65
1:B:809:ARG:NH1	3:E:40:GLN:O	2.30	0.65
2:C:365:ALA:O	2:C:372:ARG:NH1	2.31	0.65
4:F:159:THR:HA	4:F:162:LEU:HD12	1.79	0.65
3:H:43:THR:HG22	3:H:45:ALA:H	1.62	0.65
1:A:81:PRO:HA	1:A:84:SER:HB2	1.79	0.64
2:C:14:SER:H	2:C:158:GLY:HA2	1.62	0.64
2:D:67:LEU:HD12	2:D:207:GLU:HG3	1.78	0.64
2:D:200:PHE:HD1	2:D:205:GLU:HB3	1.62	0.64
1:A:138:ILE:HG23	1:A:193:TYR:CD1	2.32	0.64
1:B:113:ILE:HG21	1:B:126:PRO:HD3	1.79	0.64
1:B:446:VAL:O	1:B:450:LEU:CB	2.36	0.64
1:B:800:GLN:HG3	3:E:112:LEU:HD23	1.78	0.64
4:G:50:LYS:HA	4:G:69:LEU:HD13	1.77	0.64
1:A:586:TYR:HH	1:A:715:ARG:HH22	1.45	0.64
1:B:381:ASN:O	1:B:385:GLN:N	2.27	0.64
2:C:131:ALA:HB1	2:C:356:TRP:CD1	2.31	0.64
2:D:240:TYR:HB3	2:D:250:ILE:HD11	1.79	0.64
1:B:346:GLU:O	1:B:350:THR:OG1	2.08	0.64
1:B:359:VAL:HG13	1:B:431:ALA:HB1	1.79	0.64
1:B:429:ALA:HB2	1:B:603:ASP:HA	1.80	0.64
1:A:118:GLY:HA3	1:A:717:CYS:SG	2.37	0.64
1:A:159:THR:HA	1:A:162:ARG:HH21	1.63	0.64
1:A:351:SER:O	1:A:355:VAL:HG23	1.98	0.64
1:A:355:VAL:HB	1:A:438:LEU:HD22	1.78	0.64
1:A:702:LEU:HA	1:A:705:LEU:HD12	1.80	0.64
1:A:845:THR:HB	4:G:75:GLU:HG2	1.77	0.64
1:B:10:GLU:O	1:B:14:PHE:N	2.30	0.64
1:B:46:ALA:H	1:B:63:GLU:HG2	1.63	0.64
1:B:101:LEU:HA	1:B:104:LEU:HD12	1.78	0.64
1:B:223:GLN:O	1:B:227:ALA:N	2.27	0.64
1:B:704:GLN:O	1:B:708:ASN:N	2.28	0.64
1:B:752:ALA:O	1:B:756:MET:HG3	1.98	0.64
2:D:298:VAL:HG22	2:D:330:ILE:HB	1.78	0.64
3:E:26:ILE:O	3:E:64:LEU:N	2.29	0.64
1:A:362:LEU:HD21	1:A:398:PHE:HZ	1.63	0.64
1:A:429:ALA:HB2	1:A:603:ASP:HA	1.79	0.64
1:A:476:SER:O	1:A:480:LEU:N	2.20	0.64
1:A:477:PHE:HD2	1:A:600:LYS:HB3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:23:PRO:O	1:B:792:ILE:HD13	1.97	0.64
1:B:50:LYS:HZ2	1:B:60:GLU:HB2	1.62	0.64
1:A:243:ASP:OD1	1:A:244:ASN:N	2.30	0.64
1:B:50:LYS:HB2	1:B:59:VAL:HA	1.79	0.64
1:B:385:GLN:HG3	1:B:395:VAL:HG21	1.79	0.64
1:B:480:LEU:HD23	1:B:538:LEU:HD13	1.77	0.64
1:B:686:ILE:HD13	1:B:689:HIS:HB3	1.78	0.64
2:C:132:MET:N	2:C:357:ILE:O	2.31	0.64
1:A:352:ILE:HG13	1:A:620:PHE:HE2	1.61	0.64
1:A:489:LEU:HA	1:A:492:LEU:HD12	1.80	0.64
1:A:754:ILE:HG12	1:A:769:ILE:HG13	1.78	0.64
1:A:799:PHE:HD1	1:A:802:GLN:HE21	1.45	0.64
1:B:566:HIS:HB2	1:B:569:PHE:HB2	1.79	0.64
1:B:611:SER:O	1:B:615:GLN:N	2.29	0.64
1:B:734:TYR:CD2	1:B:760:LEU:HD11	2.32	0.64
1:A:105:ARG:HA	1:A:696:LEU:HD22	1.78	0.64
1:A:274:LYS:HB3	1:A:432:LYS:HB3	1.80	0.64
1:A:378:MET:HB2	1:A:399:THR:HG23	1.78	0.64
1:B:400:ARG:HA	1:B:403:LEU:HD13	1.79	0.64
2:C:75:ILE:HG13	2:C:177:ARG:NH2	2.13	0.64
2:C:189:LEU:HB2	2:C:257:CYS:SG	2.38	0.64
2:C:297:ASN:HD22	2:C:314:GLN:HE22	1.43	0.64
3:E:132:GLU:HA	3:E:138:ILE:HG23	1.78	0.64
4:F:118:HIS:HA	4:F:152:ASN:HD22	1.63	0.64
1:A:49:ILE:HG21	1:A:52:GLU:HB2	1.80	0.64
1:A:84:SER:HA	1:A:103:ASN:OD1	1.97	0.64
1:A:294:ILE:HA	1:A:307:LEU:HD13	1.80	0.64
1:A:531:PRO:HA	1:A:539:ALA:HB1	1.79	0.64
2:C:15:GLY:H	2:C:158:GLY:HA2	1.63	0.64
2:D:113:LYS:HA	2:D:371:HIS:CE1	2.33	0.64
2:D:151:ILE:HG23	2:D:297:ASN:HA	1.81	0.64
2:D:314:GLN:NE2	2:D:327:ILE:O	2.31	0.64
1:A:85:LYS:H	1:A:103:ASN:HA	1.63	0.63
1:A:333:GLN:O	1:A:337:GLU:HG2	1.98	0.63
1:A:504:GLU:OE1	1:A:507:ARG:NH1	2.31	0.63
1:B:367:PHE:N	1:B:424:ASP:OD1	2.28	0.63
1:B:437:ARG:NH1	1:B:627:ASP:O	2.31	0.63
1:B:681:PHE:HA	1:B:683:ARG:HH21	1.62	0.63
2:C:62:ARG:NH1	2:C:240:TYR:OH	2.30	0.63
2:C:220:ALA:HB1	2:C:223:PHE:HA	1.79	0.63
2:D:13:GLY:HA3	2:D:158:GLY:HA3	1.78	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:17:VAL:HG11	2:D:85:ILE:HG23	1.80	0.63
2:D:134:VAL:HG23	2:D:374:CYS:HB2	1.79	0.63
2:D:193:LEU:HD21	2:D:250:ILE:HA	1.80	0.63
1:A:328:ASP:O	1:A:332:PHE:CB	2.47	0.63
1:B:17:LYS:HD2	1:B:86:VAL:HA	1.78	0.63
1:B:182:GLY:HA2	1:B:185:GLU:HB3	1.80	0.63
1:B:535:PRO:HG2	1:B:543:GLU:CD	2.17	0.63
2:C:317:ILE:O	2:C:327:ILE:HD12	1.99	0.63
4:F:117:ILE:H	4:F:155:TYR:HE1	1.45	0.63
1:A:107:ARG:O	1:A:112:LEU:N	2.30	0.63
1:A:121:CYS:N	1:A:146:ARG:HH22	1.96	0.63
1:A:185:GLU:O	1:A:189:LYS:NZ	2.25	0.63
1:A:409:VAL:HG22	2:D:24:ASP:HB3	1.80	0.63
1:B:187:THR:OG1	1:B:465:ASP:OD1	2.12	0.63
1:B:352:ILE:HG13	1:B:620:PHE:HE2	1.60	0.63
2:C:208:ILE:HG23	2:C:240:TYR:CE2	2.33	0.63
2:D:125:GLU:OE1	2:D:362:TYR:OH	2.07	0.63
1:B:34:LEU:HB3	1:B:78:MET:HB3	1.80	0.63
1:B:275:SER:O	1:B:279:ARG:N	2.31	0.63
2:C:145:SER:HB3	2:C:330:ILE:HG21	1.79	0.63
2:D:104:LEU:HD13	2:D:343:GLY:O	1.99	0.63
1:A:182:GLY:HA2	1:A:185:GLU:HB3	1.80	0.63
1:B:45:GLU:HA	1:B:63:GLU:HB2	1.80	0.63
1:B:223:GLN:HB2	1:B:450:LEU:HG	1.78	0.63
1:B:274:LYS:HE2	1:B:432:LYS:HB3	1.79	0.63
1:B:584:LEU:HD23	1:B:589:LYS:HG3	1.80	0.63
1:B:800:GLN:HE22	3:E:115:LEU:HB2	1.63	0.63
2:C:24:ASP:HB2	2:C:340:TRP:HH2	1.64	0.63
2:D:54:VAL:N	2:D:57:GLU:OE1	2.31	0.63
1:A:102:HIS:CD2	1:A:105:ARG:HH22	2.17	0.63
1:A:289:ILE:HD13	1:A:335:THR:HG21	1.81	0.63
1:B:401:SER:O	1:B:606:ASN:ND2	2.28	0.63
1:B:499:ILE:HD11	1:B:675:ARG:HH22	1.64	0.63
1:A:251:PHE:HA	1:A:463:ILE:O	1.98	0.63
1:A:285:ARG:HH12	1:A:288:HIS:CD2	2.17	0.63
1:A:510:ILE:O	1:A:513:ASN:ND2	2.31	0.63
1:A:559:LEU:HD22	1:A:569:PHE:CE2	2.34	0.63
1:B:356:VAL:HG22	1:B:435:PHE:HE1	1.64	0.63
1:B:751:GLN:HA	1:B:754:ILE:HB	1.81	0.63
3:E:102:THR:OG1	3:E:137:CYS:O	2.15	0.63
1:A:138:ILE:HG21	1:A:196:VAL:HB	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:PHE:HE2	1:B:131:PRO:HD2	1.64	0.63
1:B:104:LEU:HB3	1:B:701:VAL:HG11	1.80	0.63
1:B:601:ASN:HA	1:B:659:VAL:HB	1.80	0.63
2:C:151:ILE:HG23	2:C:162:ASN:HD21	1.63	0.63
2:D:116:ARG:HH11	2:D:371:HIS:HA	1.63	0.63
1:A:47:ALA:HB2	1:A:61:LEU:HA	1.81	0.63
1:A:173:ILE:HG12	1:A:461:LEU:HD11	1.81	0.63
1:A:256:PHE:HB2	1:A:459:SER:HB3	1.79	0.63
1:A:392:GLY:O	1:A:617:SER:N	2.24	0.63
1:A:488:LYS:HD3	1:A:525:ILE:HG21	1.81	0.63
1:A:834:LYS:HZ2	4:G:161:ILE:HG23	1.62	0.63
1:B:80:PRO:HG2	1:B:785:GLU:CB	2.29	0.63
1:B:480:LEU:HD21	1:B:528:ILE:HG23	1.80	0.63
2:C:219:VAL:HG13	2:C:262:PHE:CE2	2.34	0.63
1:A:276:ARG:NH1	1:A:284:GLU:OE2	2.30	0.62
1:A:496:THR:OG1	1:A:675:ARG:NH1	2.32	0.62
1:B:276:ARG:HD3	1:B:280:GLN:HA	1.79	0.62
1:B:357:SER:O	1:B:361:GLN:HG2	1.98	0.62
1:B:508:GLU:OE2	1:B:773:LYS:N	2.29	0.62
1:B:750:LYS:O	1:B:754:ILE:N	2.22	0.62
1:B:799:PHE:HZ	3:E:143:LEU:HG	1.62	0.62
2:C:156:GLY:HA3	2:C:303:THR:N	2.10	0.62
2:D:239:SER:HA	2:D:249:THR:HA	1.81	0.62
1:A:257:ASP:N	1:A:261:TYR:O	2.22	0.62
1:A:446:VAL:O	1:A:450:LEU:HB3	1.98	0.62
1:A:705:LEU:HD13	1:A:711:LEU:HD13	1.81	0.62
1:B:305:LEU:HD23	1:B:354:ARG:HG3	1.81	0.62
1:B:344:PHE:CZ	1:B:442:ILE:HA	2.33	0.62
2:C:74:GLY:O	2:C:111:ASN:ND2	2.31	0.62
2:C:97:ALA:O	2:C:100:GLU:HG2	1.99	0.62
2:D:136:ILE:HG21	2:D:163:VAL:HG21	1.81	0.62
1:A:313:TYR:HD1	1:A:364:ASN:HD21	1.46	0.62
1:A:487:GLU:HG2	1:A:521:LEU:HB3	1.81	0.62
1:A:586:TYR:OH	1:A:715:ARG:NH2	2.30	0.62
1:B:306:LEU:HD13	1:B:386:LYS:HG2	1.82	0.62
1:B:310:PHE:O	1:B:316:LEU:HB2	1.99	0.62
1:B:422:GLN:NE2	1:B:548:PRO:O	2.32	0.62
1:B:613:LEU:HB3	1:B:625:TRP:CE3	2.31	0.62
1:A:52:GLU:HG3	1:A:57:VAL:HG22	1.81	0.62
1:A:79:ASN:OD1	1:A:94:CYS:N	2.19	0.62
1:A:362:LEU:HA	1:A:365:ILE:HD12	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:477:PHE:CE2	1:A:601:ASN:HB2	2.34	0.62
1:A:491:GLN:HA	1:A:521:LEU:HD13	1.82	0.62
1:A:492:LEU:HD11	1:A:671:MET:HA	1.80	0.62
1:A:848:LYS:HD3	4:G:84:MET:HE3	1.80	0.62
1:B:12:PHE:CG	1:B:130:LEU:HD13	2.35	0.62
1:B:114:TYR:CE2	1:B:130:LEU:HD12	2.34	0.62
1:B:198:ALA:HB3	1:B:262:ILE:HG13	1.80	0.62
1:B:527:LEU:CD2	1:B:583:ILE:HG23	2.29	0.62
2:D:154:ASP:N	2:D:161:HIS:O	2.31	0.62
3:H:64:LEU:HD21	3:H:69:PHE:HA	1.81	0.62
1:A:406:ARG:HG2	1:A:415:GLN:HG3	1.81	0.62
1:B:3:GLN:N	1:B:150:PRO:HG2	2.14	0.62
1:B:82:LYS:HD2	1:B:733:ARG:HH21	1.63	0.62
1:B:799:PHE:CD1	3:E:144:VAL:HG22	2.33	0.62
2:C:131:ALA:HA	2:C:358:THR:HA	1.81	0.62
2:C:196:ARG:NH1	2:C:237:GLU:OE2	2.31	0.62
2:D:142:LEU:HB2	2:D:152:VAL:HG21	1.82	0.62
3:E:131:HIS:HD2	3:E:146:MET:HB2	1.65	0.62
3:H:36:ARG:HG3	3:H:42:PRO:HG2	1.81	0.62
1:A:530:ARG:HH22	1:A:566:HIS:CG	2.17	0.62
1:B:278:ILE:HB	1:B:279:ARG:HH11	1.63	0.62
1:B:327:GLN:HG3	1:B:329:ASP:H	1.64	0.62
2:C:27:PRO:HA	2:C:340:TRP:CD2	2.35	0.62
2:C:250:ILE:HG23	2:C:253:GLU:HB2	1.82	0.62
2:D:61:LYS:HG3	2:D:64:ILE:HG12	1.79	0.62
2:D:147:ARG:HE	2:D:330:ILE:HG21	1.65	0.62
2:D:196:ARG:NH2	2:D:198:TYR:OH	2.32	0.62
1:A:55:ASP:O	1:A:57:VAL:N	2.33	0.62
1:A:105:ARG:O	1:A:109:PHE:CB	2.48	0.62
1:A:269:THR:O	1:A:440:ARG:NH1	2.32	0.62
1:A:302:ARG:HA	1:A:307:LEU:HD12	1.82	0.62
1:A:721:PHE:CD1	1:A:775:PHE:HB3	2.34	0.62
1:A:812:PHE:O	1:A:815:ARG:NH2	2.33	0.62
1:B:76:GLN:HB2	1:B:98:ALA:HB3	1.80	0.62
1:B:289:ILE:HD12	1:B:292:TYR:HB2	1.81	0.62
1:B:804:ARG:NH2	3:E:119:MET:HG2	2.14	0.62
2:C:212:ILE:HG23	2:C:216:LEU:HD12	1.81	0.62
2:D:96:VAL:HB	2:D:101:HIS:CD2	2.34	0.62
3:H:11:PHE:O	3:H:15:PHE:HB2	2.00	0.62
1:A:291:TYR:HD1	1:A:310:PHE:CD1	2.17	0.62
1:A:305:LEU:HB2	1:A:307:LEU:HG	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:ARG:HA	1:A:415:GLN:HA	1.82	0.62
1:B:89:MET:HG3	1:B:100:VAL:HG13	1.82	0.62
1:B:93:THR:HG22	1:B:781:LEU:HD13	1.82	0.62
1:B:193:TYR:CZ	1:B:197:VAL:HG21	2.35	0.62
1:B:219:GLU:OE1	1:B:452:LYS:NZ	2.27	0.62
1:B:373:THR:HG23	2:C:332:PRO:HA	1.81	0.62
2:C:28:ARG:NH2	2:C:94:LEU:O	2.32	0.62
2:C:86:TRP:CE3	2:C:122:ILE:HG21	2.34	0.62
3:E:15:PHE:O	3:E:26:ILE:HG12	2.00	0.62
1:A:302:ARG:HG2	1:A:307:LEU:HD12	1.82	0.62
1:B:162:ARG:O	1:B:167:ASP:N	2.30	0.62
1:B:562:GLU:O	1:B:566:HIS:ND1	2.32	0.62
2:C:300:SER:HB2	2:C:335:ARG:O	1.99	0.62
4:G:99:GLU:HA	4:G:102:ILE:HD12	1.82	0.62
1:A:296:GLY:HA3	1:A:329:ASP:HA	1.82	0.62
1:B:302:ARG:HA	1:B:307:LEU:HB2	1.81	0.62
2:C:38:PRO:HA	2:C:65:LEU:HA	1.82	0.62
2:C:192:ILE:HD12	2:C:256:ARG:HD3	1.80	0.62
1:A:118:GLY:HA2	1:A:722:PRO:HB2	1.81	0.61
1:A:141:TYR:CE1	1:A:155:ALA:HB2	2.35	0.61
1:A:174:LEU:HB3	1:A:464:LEU:HD23	1.82	0.61
1:A:402:ILE:CG1	1:A:606:ASN:HD22	2.13	0.61
1:B:326:GLN:HB3	1:B:331:MET:CE	2.30	0.61
1:B:419:THR:O	1:B:422:GLN:N	2.33	0.61
3:E:128:VAL:HA	3:E:143:LEU:HD13	1.81	0.61
4:F:72:MET:HE1	4:F:92:LYS:HG3	1.81	0.61
1:A:117:SER:HB3	1:A:714:ILE:HG12	1.82	0.61
1:A:221:GLU:OE2	1:A:254:ILE:HG23	2.00	0.61
1:A:685:ILE:HD11	1:A:710:VAL:HG21	1.82	0.61
1:B:505:TYR:CE1	1:B:721:PHE:HB2	2.34	0.61
2:D:69:TYR:OH	2:D:207:GLU:OE2	2.09	0.61
1:A:234:PHE:CD1	1:A:289:ILE:HG21	2.35	0.61
1:A:804:ARG:NH1	3:H:113:VAL:HA	2.16	0.61
1:B:231:LEU:HB3	1:B:248:PHE:HZ	1.65	0.61
1:B:339:MET:SD	1:B:352:ILE:HD13	2.41	0.61
1:B:622:ALA:O	1:B:626:LYS:N	2.33	0.61
1:B:805:GLY:HA2	3:E:36:ARG:HD3	1.82	0.61
1:B:812:PHE:HZ	3:E:34:VAL:HA	1.64	0.61
2:C:274:ILE:HG23	2:C:275:HIS:H	1.66	0.61
2:D:85:ILE:HG22	2:D:86:TRP:CD1	2.35	0.61
2:D:109:PRO:HD3	2:D:136:ILE:HG23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:174:ALA:HB2	2:D:284:LYS:HB2	1.82	0.61
3:E:32:GLY:HA2	3:E:72:MET:HE1	1.81	0.61
3:H:108:ILE:HA	3:H:111:VAL:HG22	1.80	0.61
1:A:359:VAL:HA	1:A:362:LEU:HD12	1.82	0.61
1:B:344:PHE:CE2	1:B:442:ILE:HA	2.35	0.61
2:C:5:THR:HG21	2:C:352:PHE:HB3	1.81	0.61
3:E:55:LYS:O	3:E:59:MET:N	2.28	0.61
4:G:117:ILE:HD13	4:G:155:TYR:HB3	1.81	0.61
1:A:194:LEU:HD22	1:A:256:PHE:CZ	2.35	0.61
1:A:388:CYS:HA	1:A:393:ILE:HG12	1.82	0.61
1:B:305:LEU:HD22	1:B:354:ARG:N	2.15	0.61
1:B:559:LEU:HD11	1:B:594:ALA:HB3	1.80	0.61
2:C:280:ASN:HA	2:C:283:MET:HE2	1.83	0.61
2:C:353:GLN:HA	2:C:356:TRP:CZ3	2.36	0.61
2:D:75:ILE:HG13	2:D:115:ASN:HD21	1.66	0.61
2:D:86:TRP:HH2	2:D:119:MET:HG2	1.63	0.61
1:A:103:ASN:O	1:A:107:ARG:HG3	2.00	0.61
1:B:96:ASN:O	1:B:100:VAL:N	2.22	0.61
1:B:132:ILE:HG13	1:B:152:HIS:CE1	2.35	0.61
2:C:70:PRO:HG3	2:C:81:ASP:HB3	1.81	0.61
2:C:313:MET:O	2:C:317:ILE:HG12	2.00	0.61
2:D:8:LEU:N	2:D:102:PRO:O	2.30	0.61
3:E:110:HIS:O	3:E:114:THR:N	2.32	0.61
4:F:161:ILE:HA	4:F:165:GLY:H	1.65	0.61
3:H:112:LEU:HB3	3:H:124:VAL:HG11	1.82	0.61
1:A:33:LYS:HD2	1:A:77:LYS:HA	1.83	0.61
1:A:35:VAL:HG22	1:A:75:ILE:HA	1.83	0.61
1:A:61:LEU:HD13	1:A:64:ASN:HD22	1.64	0.61
1:A:133:TYR:HD2	1:A:152:HIS:HE2	1.48	0.61
1:A:273:GLU:H	1:A:287:PHE:HZ	1.46	0.61
1:A:326:GLN:HB3	1:A:331:MET:HG3	1.82	0.61
1:A:498:PHE:HA	1:A:501:GLU:HB2	1.80	0.61
1:A:517:PHE:CD2	1:A:716:ILE:HG23	2.35	0.61
1:B:187:THR:HA	1:B:463:ILE:HG21	1.81	0.61
1:B:400:ARG:O	1:B:404:THR:N	2.24	0.61
2:C:104:LEU:HD12	2:C:352:PHE:HE1	1.65	0.61
2:C:142:LEU:HA	2:C:298:VAL:HG11	1.82	0.61
2:D:5:THR:HG21	2:D:352:PHE:HB3	1.83	0.61
2:D:12:ASN:HD22	2:D:82:MET:HE1	1.65	0.61
2:D:83:GLU:O	2:D:127:PHE:HZ	1.84	0.61
1:A:82:LYS:NZ	1:A:789:ASP:OD2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:368:LYS:N	1:A:377:SER:O	2.34	0.61
1:A:706:ARG:NH1	1:A:712:GLU:OE2	2.34	0.61
1:B:265:ALA:N	1:B:451:ASP:OD1	2.25	0.61
1:B:348:GLU:OE2	1:B:445:ARG:NH1	2.28	0.61
1:B:381:ASN:HB3	1:B:399:THR:HG21	1.83	0.61
1:A:176:THR:O	1:A:684:CYS:N	2.33	0.61
1:A:295:ALA:HB2	1:A:310:PHE:CZ	2.35	0.61
1:A:377:SER:HA	1:A:403:LEU:HD22	1.82	0.61
1:A:753:CYS:HB3	1:A:769:ILE:HD11	1.83	0.61
1:A:804:ARG:HG3	3:H:117:GLU:HG3	1.83	0.61
1:B:12:PHE:CD2	1:B:130:LEU:HB3	2.36	0.61
1:B:278:ILE:HG13	1:B:279:ARG:N	2.15	0.61
1:B:294:ILE:HB	1:B:310:PHE:CE1	2.36	0.61
1:B:307:LEU:HD23	1:B:313:TYR:HE2	1.65	0.61
1:B:523:PRO:HB2	1:B:568:LYS:HG2	1.82	0.61
1:B:754:ILE:HG12	1:B:769:ILE:HG13	1.83	0.61
2:C:70:PRO:O	2:C:77:THR:N	2.32	0.61
3:E:43:THR:HG22	3:E:45:ALA:N	2.14	0.61
1:A:305:LEU:HB3	1:A:357:SER:OG	2.01	0.61
1:A:508:GLU:HA	1:A:771:GLN:HG2	1.82	0.61
1:B:234:PHE:CE1	1:B:289:ILE:HG12	2.36	0.61
4:F:65:THR:HB	4:F:67:GLU:HG2	1.82	0.61
1:A:78:MET:HA	1:A:99:SER:HB3	1.83	0.60
1:A:114:TYR:HE1	1:A:123:VAL:HG13	1.66	0.60
1:B:840:TRP:NE1	4:F:75:GLU:OE2	2.34	0.60
2:C:157:ASP:OD1	2:C:213:LYS:NZ	2.32	0.60
1:A:116:TYR:OH	1:A:146:ARG:O	2.14	0.60
1:A:177:GLY:HA3	1:A:684:CYS:HB2	1.83	0.60
1:A:264:GLY:HA3	1:A:455:ARG:HD3	1.84	0.60
1:A:488:LYS:HD3	1:A:525:ILE:HD13	1.84	0.60
1:A:683:ARG:HE	1:A:710:VAL:HG22	1.66	0.60
1:B:186:ASN:HB3	1:B:682:VAL:HG11	1.83	0.60
1:B:271:LEU:N	1:B:666:GLN:HB3	2.15	0.60
2:C:278:THR:O	2:C:281:SER:OG	2.16	0.60
2:C:317:ILE:HG22	2:C:327:ILE:CD1	2.30	0.60
4:G:34:LYS:HE3	4:G:86:LEU:HD13	1.82	0.60
1:A:441:TRP:CH2	1:A:623:ASP:HB3	2.36	0.60
1:A:575:LEU:HA	1:A:578:LYS:HE3	1.83	0.60
1:A:583:ILE:HB	1:A:592:TYR:CD2	2.36	0.60
1:A:593:ASN:O	1:A:597:TRP:NE1	2.34	0.60
1:B:232:GLU:O	1:B:288:HIS:ND1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:151:ILE:N	2:C:296:ASN:O	2.35	0.60
2:D:70:PRO:O	2:D:77:THR:N	2.33	0.60
4:G:50:LYS:O	4:G:54:HIS:HB2	2.02	0.60
1:A:224:LEU:HD22	1:A:252:ILE:HG12	1.82	0.60
1:A:362:LEU:HD11	1:A:434:LYS:HD3	1.83	0.60
1:A:500:LEU:O	1:A:504:GLU:HG2	2.01	0.60
1:A:554:SER:HA	1:A:557:GLU:HB2	1.84	0.60
1:A:584:LEU:HA	1:A:589:LYS:HA	1.84	0.60
1:A:611:SER:O	1:A:615:GLN:N	2.34	0.60
1:B:61:LEU:HD11	1:B:70:LEU:HB2	1.82	0.60
1:B:114:TYR:CE1	1:B:153:ILE:HG13	2.35	0.60
1:B:800:GLN:NE2	3:E:111:VAL:O	2.33	0.60
2:C:122:ILE:O	2:C:127:PHE:N	2.34	0.60
2:C:166:TYR:HB2	2:C:289:ILE:HG21	1.82	0.60
2:C:294:TYR:HB3	2:C:327:ILE:HG12	1.82	0.60
2:D:305:MET:HG3	2:D:336:LYS:HB2	1.84	0.60
3:H:35:MET:HG3	3:H:73:MET:HA	1.84	0.60
1:A:105:ARG:O	1:A:109:PHE:HB2	2.02	0.60
1:A:176:THR:HG21	1:A:683:ARG:HH11	1.66	0.60
1:A:237:ALA:H	1:A:247:ARG:HG2	1.66	0.60
1:A:556:VAL:HA	1:A:559:LEU:HD12	1.83	0.60
1:B:102:HIS:CD2	1:B:105:ARG:HE	2.19	0.60
1:B:288:HIS:ND1	1:B:323:ILE:HD11	2.17	0.60
2:C:220:ALA:HB3	2:C:259:GLU:CG	2.31	0.60
1:B:9:ASP:O	1:B:132:ILE:HG22	2.01	0.60
1:B:26:GLN:HE22	1:B:31:ALA:HB2	1.65	0.60
1:B:712:GLU:HB3	1:B:715:ARG:HH21	1.67	0.60
1:B:785:GLU:CD	1:B:788:ARG:HH22	2.04	0.60
1:B:809:ARG:HG2	3:E:37:ALA:HA	1.83	0.60
2:D:214:GLU:HB3	2:D:215:LYS:HE3	1.81	0.60
2:D:246:GLN:HE21	2:D:248:ILE:HD11	1.64	0.60
1:A:47:ALA:HA	1:A:62:GLN:H	1.66	0.60
1:A:306:LEU:HB2	1:A:390:LEU:HD21	1.84	0.60
1:A:433:ALA:O	1:A:437:ARG:HD2	2.02	0.60
1:B:26:GLN:NE2	1:B:31:ALA:HB2	2.16	0.60
1:B:405:PRO:HA	1:B:608:ASN:HD22	1.66	0.60
1:B:437:ARG:HA	1:B:440:ARG:HB2	1.82	0.60
1:B:555:PHE:CE2	1:B:594:ALA:HB1	2.37	0.60
2:C:59:GLN:HA	2:C:67:LEU:HD21	1.82	0.60
1:A:546:TRP:HZ3	2:D:349:LEU:HA	1.67	0.60
1:A:804:ARG:NH1	3:H:112:LEU:O	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:405:PRO:HG3	1:B:418:GLN:CD	2.22	0.60
2:C:23:GLY:H	2:C:348:SER:HB2	1.67	0.60
2:C:135:ALA:HB1	2:C:140:LEU:HD21	1.83	0.60
2:C:151:ILE:HD11	2:C:294:TYR:HA	1.83	0.60
2:C:258:PRO:O	2:C:261:LEU:HB3	2.01	0.60
2:D:166:TYR:CD1	2:D:293:LEU:HD21	2.33	0.60
1:A:190:VAL:HG11	1:A:461:LEU:HD22	1.84	0.60
1:A:505:TYR:HB3	1:A:513:ASN:HD22	1.66	0.60
1:A:696:LEU:HD11	1:A:701:VAL:HG21	1.83	0.60
1:A:807:LEU:O	1:A:811:ALA:CB	2.50	0.60
1:B:286:THR:CG2	1:B:316:LEU:HD23	2.32	0.60
1:B:295:ALA:HB2	1:B:310:PHE:HZ	1.66	0.60
1:B:359:VAL:HA	1:B:362:LEU:HD12	1.82	0.60
1:B:536:GLY:O	1:B:540:LEU:HG	2.02	0.60
1:B:811:ALA:HB1	1:B:814:LYS:HE2	1.84	0.60
2:C:167:GLU:HG2	2:D:40:HIS:HB3	1.83	0.60
2:C:298:VAL:HA	2:C:330:ILE:HB	1.82	0.60
2:D:120:THR:OG1	2:D:362:TYR:HB2	2.01	0.60
2:D:120:THR:HG21	2:D:367:PRO:HA	1.84	0.60
1:B:124:ILE:HA	1:B:685:ILE:HB	1.83	0.60
1:B:138:ILE:HG13	1:B:154:TYR:HE2	1.65	0.60
1:B:288:HIS:CG	1:B:323:ILE:HD11	2.37	0.60
1:B:290:PHE:HD1	1:B:360:LEU:HG	1.66	0.60
2:D:219:VAL:HG11	2:D:309:ILE:HA	1.83	0.60
3:E:11:PHE:O	3:E:15:PHE:HB2	2.01	0.60
1:A:61:LEU:HD12	1:A:68:VAL:HB	1.84	0.59
1:A:141:TYR:CD1	1:A:155:ALA:HB2	2.37	0.59
1:A:251:PHE:HE2	1:A:253:ARG:HB2	1.67	0.59
1:A:505:TYR:OH	1:A:720:GLY:HA2	2.02	0.59
1:B:168:ARG:CZ	1:B:258:VAL:HA	2.32	0.59
1:B:799:PHE:HE1	3:E:127:LEU:HD11	1.67	0.59
2:C:11:ASP:HA	2:C:106:THR:CG2	2.32	0.59
2:C:128:ASN:HA	2:C:359:LYS:HE2	1.83	0.59
1:A:116:TYR:HE1	1:A:156:ILE:HD11	1.66	0.59
1:A:410:GLY:HA3	2:D:28:ARG:NH2	2.16	0.59
1:A:426:ALA:HB1	1:A:606:ASN:HB2	1.84	0.59
1:A:734:TYR:HA	1:A:737:LEU:HB3	1.83	0.59
1:A:803:CYS:HA	1:A:806:TYR:HB3	1.83	0.59
1:B:107:ARG:CG	1:B:112:LEU:HD12	2.31	0.59
1:B:808:ALA:HB2	3:E:36:ARG:HD2	1.84	0.59
2:C:5:THR:OG1	2:C:347:ALA:O	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:105:LEU:HD11	2:C:123:MET:CG	2.32	0.59
2:C:105:LEU:HG	2:C:132:MET:SD	2.42	0.59
2:C:180:LEU:HG	2:C:261:LEU:HA	1.83	0.59
2:C:261:LEU:HD22	2:C:303:THR:HG21	1.83	0.59
2:D:287:ILE:O	2:D:291:LYS:HB2	2.03	0.59
3:H:28:TYR:HA	3:H:31:CYS:SG	2.42	0.59
1:A:254:ILE:O	1:A:460:PHE:HA	2.02	0.59
1:A:425:PHE:HB3	1:A:604:PRO:HD2	1.83	0.59
1:A:510:ILE:HD13	1:A:721:PHE:CE2	2.37	0.59
1:B:231:LEU:HB3	1:B:248:PHE:CZ	2.37	0.59
1:B:272:LEU:HD23	1:B:436:GLU:HG3	1.85	0.59
1:B:437:ARG:HD2	1:B:625:TRP:HD1	1.65	0.59
2:C:164:PRO:HD3	2:C:281:SER:HB2	1.84	0.59
2:D:16:LEU:H	2:D:157:ASP:HB2	1.68	0.59
2:D:131:ALA:HB1	2:D:356:TRP:CD1	2.38	0.59
3:E:105:GLY:HA3	3:E:138:ILE:HG12	1.83	0.59
1:A:161:TYR:HA	1:A:256:PHE:HE2	1.67	0.59
1:A:231:LEU:HD13	1:A:269:THR:HG21	1.85	0.59
1:A:737:LEU:HD21	1:A:760:LEU:HD21	1.85	0.59
1:A:805:GLY:O	3:H:41:ASN:HB2	2.02	0.59
1:B:411:ARG:NE	2:C:93:GLU:O	2.35	0.59
1:B:439:PHE:HA	1:B:442:ILE:HB	1.84	0.59
2:C:31:PHE:HE2	2:C:85:ILE:HG12	1.66	0.59
2:D:54:VAL:HB	2:D:88:HIS:CD2	2.36	0.59
3:E:127:LEU:HD12	3:E:147:VAL:HG21	1.84	0.59
1:A:272:LEU:HD13	1:A:439:PHE:CG	2.38	0.59
1:B:5:PRO:HB3	1:B:14:PHE:CD2	2.37	0.59
1:B:18:ASN:HD22	1:B:81:PRO:HB2	1.67	0.59
1:B:21:ASN:H	1:B:82:LYS:HB3	1.68	0.59
1:B:601:ASN:ND2	1:B:658:THR:HB	2.17	0.59
1:A:2:SER:HB3	1:A:10:GLU:OE1	2.03	0.59
1:B:257:ASP:HA	1:B:456:GLN:HG2	1.85	0.59
4:G:83:THR:HA	4:G:86:LEU:HB3	1.83	0.59
1:A:537:VAL:HA	1:A:559:LEU:HD21	1.84	0.59
1:B:7:SER:O	1:B:11:LYS:N	2.36	0.59
1:B:229:PRO:O	1:B:232:GLU:HB2	2.03	0.59
1:B:563:GLN:HG2	1:B:571:LYS:HE3	1.85	0.59
1:B:735:GLU:HG2	3:E:90:GLU:HB2	1.83	0.59
2:C:19:ALA:HB3	2:C:29:ALA:HB3	1.82	0.59
2:C:20:GLY:HA3	2:C:340:TRP:HZ2	1.66	0.59
2:C:165:ILE:HG22	2:D:43:VAL:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:188:TYR:O	2:C:192:ILE:HG12	2.03	0.59
1:A:156:ILE:HG21	1:A:682:VAL:HG23	1.84	0.59
1:A:509:GLY:H	1:A:771:GLN:HE21	1.50	0.59
1:A:527:LEU:HD22	1:A:568:LYS:HB2	1.83	0.59
1:A:742:ILE:HG21	1:A:746:PHE:HB2	1.85	0.59
1:A:800:GLN:NE2	3:H:111:VAL:O	2.25	0.59
1:B:12:PHE:O	1:B:114:TYR:HB2	2.03	0.59
1:B:113:ILE:HG12	1:B:126:PRO:HD3	1.83	0.59
2:C:124:PHE:HZ	2:C:132:MET:H	1.49	0.59
2:D:35:VAL:HA	2:D:53:TYR:O	2.03	0.59
2:D:75:ILE:HA	2:D:115:ASN:ND2	2.17	0.59
2:D:104:LEU:HA	2:D:133:TYR:HB3	1.84	0.59
4:F:82:PHE:HA	4:F:85:PHE:CE1	2.37	0.59
3:H:111:VAL:HA	3:H:115:LEU:HB2	1.83	0.59
1:A:258:VAL:H	1:A:456:GLN:HG2	1.66	0.59
1:A:305:LEU:HD23	1:A:354:ARG:HG3	1.85	0.59
1:B:92:LEU:HD12	1:B:95:LEU:HD23	1.85	0.59
1:B:288:HIS:HB3	1:B:292:TYR:CE1	2.38	0.59
1:B:532:THR:HG21	2:C:4:GLU:HA	1.83	0.59
1:B:825:ILE:HG12	4:F:109:PHE:HB2	1.85	0.59
2:D:131:ALA:O	2:D:352:PHE:HZ	1.86	0.59
3:E:119:MET:HB2	3:E:124:VAL:HG13	1.85	0.59
4:G:30:ILE:O	4:G:34:LYS:HG2	2.03	0.59
1:A:114:TYR:HB2	1:A:151:PRO:O	2.02	0.59
1:A:401:SER:HG	1:A:609:VAL:HG23	1.66	0.59
1:A:726:VAL:HB	1:A:729:GLU:HG3	1.84	0.59
1:B:44:PHE:CE2	1:B:98:ALA:HA	2.37	0.59
1:B:289:ILE:HA	1:B:292:TYR:CB	2.30	0.59
1:B:388:CYS:HB3	1:B:393:ILE:O	2.02	0.59
1:B:688:ASN:ND2	1:B:690:GLU:OE1	2.36	0.59
2:C:314:GLN:HE21	2:C:329:ILE:HG13	1.68	0.59
2:D:19:ALA:O	2:D:28:ARG:N	2.36	0.59
2:D:141:SER:OG	2:D:154:ASP:OD1	2.12	0.59
2:D:191:LYS:HZ1	2:D:267:ILE:HA	1.67	0.59
4:F:126:LEU:HD22	4:F:133:PHE:HB2	1.84	0.59
1:A:276:ARG:HB3	1:A:287:PHE:CZ	2.38	0.58
1:A:754:ILE:HA	1:A:757:ILE:HD12	1.85	0.58
1:B:26:GLN:HA	1:B:29:TRP:O	2.03	0.58
1:B:135:GLU:HA	1:B:138:ILE:HD12	1.85	0.58
1:B:157:ALA:HA	1:B:173:ILE:HD11	1.84	0.58
1:B:530:ARG:NE	1:B:534:PRO:O	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:533:ASN:ND2	2:C:353:GLN:OE1	2.36	0.58
1:B:695:LYS:HG2	1:B:696:LEU:N	2.18	0.58
1:B:764:PRO:HB3	1:B:768:ARG:HH11	1.68	0.58
2:C:54:VAL:N	2:C:57:GLU:OE1	2.36	0.58
2:C:192:ILE:HG21	2:C:256:ARG:HE	1.68	0.58
2:C:362:TYR:HA	2:C:369:ILE:HG21	1.85	0.58
3:E:50:VAL:HG21	3:E:76:ILE:HG12	1.85	0.58
3:H:15:PHE:CD1	3:H:26:ILE:HD13	2.37	0.58
1:B:59:VAL:HG21	1:B:75:ILE:HG12	1.84	0.58
1:B:199:SER:HB3	1:B:261:TYR:HD2	1.67	0.58
1:B:552:ASP:OD1	1:B:598:LEU:HD13	2.03	0.58
1:B:799:PHE:CZ	3:E:143:LEU:HG	2.37	0.58
2:C:367:PRO:O	2:C:370:VAL:HG23	2.03	0.58
2:D:73:HIS:C	2:D:159:VAL:HB	2.23	0.58
4:F:34:LYS:HD2	4:F:86:LEU:HD21	1.86	0.58
1:A:141:TYR:CD2	1:A:154:TYR:HB2	2.38	0.58
1:A:153:ILE:O	1:A:157:ALA:CB	2.52	0.58
1:A:271:LEU:N	1:A:666:GLN:HB3	2.19	0.58
1:A:388:CYS:HB3	1:A:393:ILE:O	2.03	0.58
1:A:734:TYR:CZ	1:A:784:LEU:HB3	2.38	0.58
1:A:822:MET:HA	1:A:825:ILE:HD12	1.85	0.58
1:B:281:ALA:HB3	1:B:284:GLU:HB2	1.84	0.58
1:B:281:ALA:HA	1:B:474:ILE:HD13	1.86	0.58
1:B:286:THR:OG1	1:B:290:PHE:HB2	2.03	0.58
2:C:27:PRO:HG3	2:C:337:TYR:CD2	2.38	0.58
2:C:301:GLY:O	2:C:304:THR:OG1	2.20	0.58
1:A:16:ASP:O	1:A:85:LYS:HD2	2.03	0.58
1:A:177:GLY:HA2	1:A:708:ASN:OD1	2.03	0.58
1:A:193:TYR:CD2	1:A:194:LEU:HD23	2.28	0.58
1:A:257:ASP:HA	1:A:456:GLN:HB3	1.84	0.58
1:A:328:ASP:O	1:A:332:PHE:HB3	2.03	0.58
1:A:501:GLU:OE2	1:A:721:PHE:N	2.35	0.58
1:A:815:ARG:HA	1:A:818:GLN:HG3	1.86	0.58
1:B:309:GLY:N	1:B:312:ASN:HB2	2.17	0.58
1:B:373:THR:OG1	1:B:549:LYS:NZ	2.36	0.58
1:B:721:PHE:O	1:B:724:ARG:NH2	2.37	0.58
2:C:50:LYS:HG2	2:C:51:ASP:H	1.67	0.58
3:E:87:ASP:HA	3:E:90:GLU:HG2	1.85	0.58
3:E:121:GLU:HA	3:E:124:VAL:HG22	1.83	0.58
3:H:133:ASP:OD2	3:H:133:ASP:N	2.35	0.58
1:A:138:ILE:CD1	1:A:192:GLN:HG3	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:237:ALA:O	1:A:245:SER:OG	2.20	0.58
1:A:480:LEU:HA	1:A:592:TYR:CE1	2.37	0.58
1:A:621:VAL:O	1:A:625:TRP:HE3	1.87	0.58
1:A:844:PHE:HE2	4:G:87:THR:HG23	1.68	0.58
1:A:847:VAL:HG11	4:F:62:LYS:HB2	1.85	0.58
1:B:95:LEU:O	1:B:718:ARG:NH1	2.37	0.58
1:B:100:VAL:HG11	1:B:714:ILE:HD13	1.85	0.58
1:B:133:TYR:HA	1:B:154:TYR:CZ	2.38	0.58
1:B:177:GLY:HA2	1:B:707:CYS:SG	2.43	0.58
2:C:9:VAL:HA	2:C:104:LEU:HB3	1.85	0.58
2:C:192:ILE:HG13	2:C:253:GLU:HB3	1.84	0.58
2:D:11:ASP:HB3	2:D:18:LYS:HD3	1.85	0.58
2:D:132:MET:N	2:D:357:ILE:O	2.36	0.58
3:E:15:PHE:CD2	3:E:26:ILE:HD13	2.38	0.58
1:A:70:LEU:HB3	1:A:75:ILE:HD11	1.86	0.58
1:A:408:LYS:HG3	1:A:413:VAL:HG22	1.85	0.58
1:B:93:THR:HB	1:B:781:LEU:HB3	1.86	0.58
1:B:171:GLN:OE1	1:B:680:ASN:ND2	2.34	0.58
1:B:717:CYS:SG	1:B:722:PRO:HA	2.43	0.58
2:C:304:THR:HG22	2:C:309:ILE:HG12	1.84	0.58
2:D:32:PRO:O	2:D:55:GLY:HA2	2.03	0.58
3:E:109:ARG:HG3	3:E:128:VAL:HG21	1.85	0.58
4:F:132:ARG:NH1	4:F:133:PHE:O	2.35	0.58
1:A:469:PHE:CZ	1:A:586:TYR:HB3	2.38	0.58
1:A:571:LYS:HG3	1:A:577:ASP:CB	2.33	0.58
1:B:543:GLU:HA	1:B:546:TRP:CD2	2.38	0.58
1:B:766:LEU:O	1:B:776:PHE:HA	2.03	0.58
1:B:804:ARG:NH2	3:E:117:GLU:O	2.37	0.58
2:C:37:ARG:NH2	2:C:81:ASP:OD1	2.37	0.58
2:C:314:GLN:NE2	2:C:329:ILE:HG13	2.18	0.58
2:D:79:TRP:CE3	2:D:122:ILE:HG12	2.34	0.58
2:D:86:TRP:HZ3	2:D:122:ILE:HB	1.68	0.58
2:D:153:LEU:HD11	2:D:274:ILE:CG1	2.32	0.58
2:D:218:TYR:HD1	2:D:307:PRO:HG2	1.68	0.58
4:F:116:PHE:HB3	4:F:154:ASN:HA	1.86	0.58
1:A:34:LEU:HA	1:A:47:ALA:O	2.04	0.58
1:A:280:GLN:O	1:A:600:LYS:NZ	2.36	0.58
1:B:25:ALA:HB2	1:B:82:LYS:HE2	1.86	0.58
1:B:152:HIS:CG	1:B:154:TYR:H	2.21	0.58
1:B:358:SER:OG	1:B:434:LYS:NZ	2.21	0.58
2:C:8:LEU:HD22	2:C:94:LEU:HD22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:188:TYR:CZ	2:C:266:PHE:HB3	2.39	0.58
2:D:133:TYR:CE2	2:D:135:ALA:HB2	2.39	0.58
4:F:50:LYS:HZ2	4:F:69:LEU:HB3	1.68	0.58
1:A:351:SER:HA	1:A:354:ARG:HD2	1.86	0.58
1:A:387:VAL:HG11	1:A:398:PHE:CE1	2.39	0.58
1:A:503:GLU:OE2	1:A:507:ARG:NH2	2.36	0.58
1:A:541:LEU:HA	1:A:555:PHE:HB2	1.84	0.58
1:A:804:ARG:HE	3:H:119:MET:N	2.01	0.58
1:B:114:TYR:CE2	1:B:132:ILE:HD11	2.39	0.58
1:B:153:ILE:O	1:B:157:ALA:CB	2.50	0.58
1:B:757:ILE:HG23	1:B:762:LEU:HB2	1.84	0.58
2:C:227:MET:HG3	2:C:252:ASN:HD22	1.69	0.58
2:C:262:PHE:HE1	2:C:313:MET:HG2	1.68	0.58
2:D:19:ALA:HB2	2:D:89:THR:HA	1.86	0.58
2:D:86:TRP:HB2	2:D:127:PHE:CE2	2.39	0.58
3:E:93:ARG:NH2	3:E:103:VAL:HG13	2.18	0.58
1:A:32:LYS:HD2	1:A:49:ILE:HB	1.84	0.58
1:A:146:ARG:HG3	1:A:156:ILE:HG13	1.85	0.58
1:A:290:PHE:CB	1:A:316:LEU:HD21	2.32	0.58
1:B:89:MET:HG2	1:B:117:SER:HA	1.85	0.58
1:B:332:PHE:O	1:B:335:THR:HB	2.04	0.58
1:B:391:MET:HB3	1:B:621:VAL:HG11	1.85	0.58
1:B:732:GLN:HA	1:B:744:LYS:HB2	1.86	0.58
1:B:404:THR:HA	1:B:417:ALA:HB1	1.86	0.57
1:B:604:PRO:HB3	1:B:655:MET:HG3	1.86	0.57
1:B:763:ASP:OD1	1:B:766:LEU:N	2.24	0.57
1:B:793:THR:O	1:B:797:ILE:HG13	2.04	0.57
2:D:142:LEU:HD21	2:D:148:THR:HA	1.86	0.57
3:E:28:TYR:HE1	3:E:64:LEU:HD13	1.69	0.57
3:H:43:THR:HB	3:H:46:GLU:HG2	1.84	0.57
1:A:114:TYR:CE1	1:A:123:VAL:HG22	2.39	0.57
1:A:170:ASP:OD2	1:A:460:PHE:N	2.37	0.57
1:A:344:PHE:CE1	1:A:352:ILE:HD11	2.39	0.57
1:B:250:LYS:HG3	1:B:465:ASP:HB2	1.86	0.57
1:B:545:CYS:SG	1:B:598:LEU:HG	2.44	0.57
1:B:766:LEU:HA	1:B:777:ARG:HG3	1.86	0.57
2:C:76:ILE:HB	2:C:115:ASN:HB3	1.86	0.57
2:D:2:GLU:O	2:D:5:THR:HA	2.04	0.57
2:D:73:HIS:HB2	2:D:183:ARG:HH21	1.69	0.57
1:A:42:HIS:ND1	1:A:699:HIS:HA	2.20	0.57
1:A:125:ASN:HB3	1:A:686:ILE:HD13	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:133:TYR:HA	1:A:154:TYR:CE2	2.40	0.57
1:A:266:ASN:HD21	1:A:447:ASN:HB3	1.67	0.57
1:A:491:GLN:OE1	1:A:522:GLN:NE2	2.37	0.57
1:A:807:LEU:O	3:H:126:GLN:NE2	2.37	0.57
1:B:145:LYS:NZ	1:B:159:THR:O	2.37	0.57
1:B:292:TYR:CZ	1:B:331:MET:HB3	2.39	0.57
1:B:344:PHE:HB3	1:B:349:GLN:HG3	1.87	0.57
1:B:411:ARG:NH2	2:C:92:ASN:O	2.37	0.57
2:D:10:CYS:SG	2:D:86:TRP:NE1	2.40	0.57
2:D:57:GLU:O	2:D:60:SER:OG	2.21	0.57
2:D:86:TRP:CZ3	2:D:122:ILE:HB	2.39	0.57
2:D:123:MET:O	2:D:129:VAL:N	2.26	0.57
1:A:229:PRO:O	1:A:233:ALA:N	2.37	0.57
1:A:407:ILE:HG21	2:D:25:ASP:HB2	1.87	0.57
1:A:468:GLY:O	1:A:486:ASN:ND2	2.37	0.57
1:B:154:TYR:CZ	1:B:193:TYR:HB2	2.39	0.57
1:B:306:LEU:O	1:B:361:GLN:NE2	2.37	0.57
3:E:46:GLU:HA	3:E:49:LYS:CG	2.32	0.57
1:A:139:ASP:O	1:A:144:LYS:NZ	2.27	0.57
1:B:161:TYR:HA	1:B:164:MET:HE3	1.86	0.57
1:B:546:TRP:CE3	2:C:4:GLU:HG2	2.40	0.57
2:D:68:LYS:HG3	2:D:81:ASP:OD2	2.05	0.57
1:A:79:ASN:H	1:A:99:SER:HB3	1.69	0.57
1:A:129:GLN:HA	1:A:133:TYR:HD1	1.69	0.57
1:A:269:THR:OG1	1:A:443:LEU:HD22	2.05	0.57
1:A:546:TRP:CD1	1:A:657:ARG:HG3	2.40	0.57
1:A:731:ARG:NH1	1:A:746:PHE:O	2.35	0.57
1:A:809:ARG:HA	1:A:812:PHE:CZ	2.39	0.57
1:B:78:MET:HA	1:B:99:SER:HB2	1.86	0.57
1:B:127:TYR:CE1	1:B:181:ALA:HA	2.39	0.57
1:B:269:THR:H	1:B:443:LEU:HD21	1.69	0.57
1:B:391:MET:HA	1:B:621:VAL:HG21	1.86	0.57
1:B:498:PHE:HA	1:B:517:PHE:HD2	1.69	0.57
1:B:808:ALA:HB3	3:E:36:ARG:HD2	1.87	0.57
2:C:32:PRO:O	2:C:55:GLY:HA2	2.05	0.57
2:D:92:ASN:HA	2:D:95:ARG:CZ	2.35	0.57
2:D:189:LEU:HD21	2:D:212:ILE:HG22	1.86	0.57
2:D:219:VAL:HA	2:D:258:PRO:HB2	1.86	0.57
4:F:81:ASN:O	4:F:85:PHE:N	2.25	0.57
1:A:153:ILE:O	1:A:157:ALA:HB3	2.04	0.57
1:A:252:ILE:HG23	1:A:267:ILE:HG22	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:422:GLN:HA	1:B:425:PHE:HB2	1.85	0.57
1:B:484:TYR:CE1	1:B:525:ILE:HG23	2.35	0.57
1:B:530:ARG:HB3	1:B:536:GLY:N	2.19	0.57
1:B:731:ARG:NH2	1:B:749:GLY:HA2	2.20	0.57
2:C:167:GLU:CG	2:D:40:HIS:HB3	2.35	0.57
2:C:190:MET:HG3	2:C:200:PHE:HB2	1.87	0.57
2:C:299:MET:HE1	2:C:313:MET:HB3	1.85	0.57
2:D:83:GLU:HA	2:D:127:PHE:HE2	1.68	0.57
2:D:222:ASP:HB2	2:D:225:ASN:ND2	2.19	0.57
1:A:85:LYS:HG2	1:A:107:ARG:HG2	1.87	0.57
1:A:172:SER:HB3	1:A:677:THR:HG21	1.87	0.57
1:A:224:LEU:HA	1:A:227:ALA:HB3	1.85	0.57
1:B:115:THR:O	1:B:122:VAL:HB	2.05	0.57
1:B:152:HIS:HB3	1:B:155:ALA:H	1.70	0.57
1:B:163:SER:O	1:B:169:GLU:N	2.22	0.57
1:B:290:PHE:CB	1:B:316:LEU:HD21	2.35	0.57
1:B:315:PHE:HB2	1:B:360:LEU:HD23	1.87	0.57
1:B:731:ARG:HH22	1:B:749:GLY:HA2	1.67	0.57
1:B:799:PHE:CD2	3:E:112:LEU:HD21	2.39	0.57
2:C:32:PRO:HD2	2:C:56:ASP:N	2.19	0.57
2:C:189:LEU:HD23	2:C:213:LYS:HB2	1.86	0.57
2:D:166:TYR:HD2	2:D:167:GLU:HG2	1.70	0.57
2:D:262:PHE:CZ	2:D:312:ARG:HG2	2.40	0.57
1:A:129:GLN:HA	1:A:133:TYR:CD1	2.40	0.57
1:A:129:GLN:HG3	1:A:133:TYR:HD1	1.70	0.57
1:A:153:ILE:HG23	1:A:682:VAL:HG21	1.87	0.57
1:A:556:VAL:HA	1:A:559:LEU:HB2	1.87	0.57
1:A:776:PHE:HB3	1:A:781:LEU:HB2	1.87	0.57
1:B:108:TYR:CE1	1:B:113:ILE:HG13	2.40	0.57
2:C:19:ALA:HB2	2:C:89:THR:HA	1.85	0.57
2:C:317:ILE:C	2:C:327:ILE:HD12	2.24	0.57
2:D:151:ILE:O	2:D:297:ASN:HA	2.04	0.57
3:H:109:ARG:HG2	3:H:124:VAL:HG23	1.87	0.57
1:A:58:THR:HA	1:A:68:VAL:C	2.25	0.57
1:A:111:GLY:O	1:A:113:ILE:N	2.37	0.57
1:A:370:GLU:HB2	1:A:374:ASP:OD1	2.05	0.57
2:C:87:HIS:O	2:C:92:ASN:N	2.38	0.57
1:A:336:LEU:HD23	1:A:339:MET:HE1	1.85	0.56
1:B:388:CYS:SG	1:B:395:VAL:HA	2.44	0.56
2:C:226:GLU:CB	2:C:236:LEU:HD13	2.35	0.56
4:F:67:GLU:HB3	4:G:137:GLU:HG3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:SER:HB2	1:A:120:PHE:CD2	2.39	0.56
1:A:161:TYR:CZ	1:A:197:VAL:HG12	2.40	0.56
1:A:688:ASN:HB3	1:A:692:ARG:HB2	1.86	0.56
1:B:12:PHE:CZ	1:B:130:LEU:HD22	2.40	0.56
1:B:126:PRO:HG3	1:B:130:LEU:HD11	1.87	0.56
1:B:508:GLU:HB3	1:B:770:GLY:HA3	1.86	0.56
2:C:120:THR:OG1	2:C:370:VAL:HG22	2.05	0.56
2:C:169:TYR:OH	2:D:43:VAL:N	2.23	0.56
2:C:352:PHE:CE2	2:C:356:TRP:HB3	2.40	0.56
3:E:32:GLY:HA2	3:E:72:MET:CE	2.34	0.56
1:A:104:LEU:CD2	1:A:122:VAL:HG11	2.36	0.56
1:A:179:SER:HB3	1:A:467:ALA:N	2.20	0.56
1:A:290:PHE:CD1	1:A:356:VAL:HG13	2.40	0.56
1:A:355:VAL:HA	1:A:391:MET:HE3	1.87	0.56
1:A:377:SER:HA	1:A:403:LEU:HD13	1.86	0.56
1:A:502:GLN:HA	1:A:505:TYR:CD2	2.40	0.56
1:A:568:LYS:HD3	1:A:584:LEU:HD12	1.86	0.56
1:A:616:SER:OG	1:A:621:VAL:HG12	2.05	0.56
1:B:57:VAL:HG21	1:B:72:LYS:HG2	1.86	0.56
1:B:266:ASN:ND2	1:B:447:ASN:HB3	2.20	0.56
1:B:291:TYR:CE1	1:B:316:LEU:HB3	2.40	0.56
1:B:294:ILE:HG22	1:B:302:ARG:CZ	2.36	0.56
1:B:368:LYS:N	1:B:377:SER:O	2.37	0.56
1:B:731:ARG:HH11	1:B:752:ALA:HB3	1.70	0.56
2:D:107:GLU:HG3	2:D:111:ASN:HD22	1.70	0.56
3:E:36:ARG:HG2	3:E:42:PRO:HG2	1.85	0.56
1:A:171:GLN:NE2	1:A:678:ASN:HB3	2.20	0.56
1:A:291:TYR:CG	1:A:316:LEU:HD22	2.40	0.56
1:A:366:VAL:HG22	1:A:380:ASP:HB3	1.87	0.56
1:A:443:LEU:HA	1:A:446:VAL:HB	1.88	0.56
1:A:552:ASP:OD2	1:A:598:LEU:N	2.38	0.56
1:A:820:THR:O	1:A:824:VAL:HG23	2.06	0.56
1:B:25:ALA:H	1:B:789:ASP:HB3	1.70	0.56
1:B:264:GLY:HA3	1:B:455:ARG:HD2	1.88	0.56
1:B:276:ARG:NH1	1:B:284:GLU:HB3	2.20	0.56
1:B:368:LYS:O	1:B:377:SER:HB2	2.06	0.56
2:C:12:ASN:OD1	2:C:106:THR:N	2.38	0.56
2:C:183:ARG:HH22	2:C:210:ARG:HD2	1.69	0.56
2:D:86:TRP:CH2	2:D:119:MET:HA	2.40	0.56
3:H:64:LEU:HD21	3:H:72:MET:HG2	1.87	0.56
1:A:55:ASP:OD2	1:A:72:LYS:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:571:LYS:HG3	1:A:577:ASP:HB3	1.88	0.56
1:A:756:MET:HA	1:A:759:ALA:HB3	1.86	0.56
1:B:13:LEU:HD23	1:B:132:ILE:HD12	1.88	0.56
1:B:263:VAL:HB	1:B:455:ARG:HA	1.88	0.56
1:B:294:ILE:HD13	1:B:308:GLU:O	2.05	0.56
1:B:407:ILE:HD11	1:B:418:GLN:HA	1.87	0.56
2:C:50:LYS:HB3	2:C:53:TYR:CZ	2.39	0.56
2:C:75:ILE:HG13	2:C:177:ARG:HH22	1.69	0.56
2:C:108:ALA:HA	2:C:161:HIS:CE1	2.41	0.56
2:C:162:ASN:HB2	2:C:176:MET:HE2	1.88	0.56
2:C:294:TYR:CG	2:C:327:ILE:HG12	2.40	0.56
2:D:71:ILE:HD11	2:D:82:MET:HE2	1.88	0.56
4:F:36:ALA:O	4:F:40:ILE:HG13	2.05	0.56
1:A:57:VAL:HG12	1:A:59:VAL:HG13	1.87	0.56
1:A:278:ILE:HG13	1:A:279:ARG:HG2	1.88	0.56
1:A:430:LEU:O	1:A:434:LYS:HG3	2.06	0.56
1:B:288:HIS:CE1	1:B:323:ILE:HD11	2.41	0.56
1:B:464:LEU:HD13	1:B:674:LEU:HD21	1.87	0.56
1:B:721:PHE:CG	1:B:775:PHE:HB3	2.41	0.56
2:C:301:GLY:H	2:C:336:LYS:HA	1.70	0.56
2:C:304:THR:HA	2:C:309:ILE:HG21	1.86	0.56
2:D:14:SER:N	2:D:158:GLY:HA2	2.20	0.56
2:D:144:ALA:HB2	2:D:338:SER:O	2.05	0.56
3:E:105:GLY:O	3:E:109:ARG:HB2	2.04	0.56
1:A:411:ARG:HE	2:D:94:LEU:HD23	1.71	0.56
1:A:517:PHE:HB3	1:A:715:ARG:HH12	1.71	0.56
1:A:807:LEU:HD11	3:H:127:LEU:HD22	1.86	0.56
1:B:256:PHE:HB2	1:B:459:SER:OG	2.05	0.56
1:B:263:VAL:HG21	1:B:456:GLN:H	1.70	0.56
1:B:517:PHE:CG	1:B:716:ILE:HG23	2.40	0.56
1:B:540:LEU:HD12	1:B:559:LEU:HD23	1.85	0.56
2:C:79:TRP:HB3	2:C:118:LYS:HD3	1.86	0.56
2:D:86:TRP:CZ2	2:D:105:LEU:HD13	2.40	0.56
2:D:124:PHE:CD2	2:D:362:TYR:HB3	2.41	0.56
1:A:105:ARG:HA	1:A:696:LEU:HD13	1.86	0.56
1:A:119:LEU:HD13	1:A:500:LEU:HB2	1.88	0.56
1:A:612:LEU:HA	1:A:615:GLN:HB2	1.87	0.56
1:B:58:THR:HA	1:B:68:VAL:O	2.05	0.56
1:B:141:TYR:CE1	1:B:149:MET:HB2	2.41	0.56
1:B:768:ARG:H	1:B:774:ILE:HG22	1.69	0.56
2:C:109:PRO:HD2	2:C:161:HIS:CG	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:159:THR:HA	1:A:162:ARG:NH2	2.20	0.56
1:A:224:LEU:CD2	1:A:252:ILE:HG12	2.36	0.56
1:A:291:TYR:CD1	1:A:316:LEU:HD22	2.41	0.56
1:A:292:TYR:CD1	1:A:328:ASP:HA	2.41	0.56
1:A:609:VAL:HG13	1:A:612:LEU:HD23	1.86	0.56
1:B:276:ARG:NH2	1:B:479:GLN:HE22	2.03	0.56
1:B:290:PHE:CD1	1:B:360:LEU:HG	2.41	0.56
1:B:468:GLY:O	1:B:486:ASN:ND2	2.39	0.56
1:B:481:CYS:HB3	1:B:663:TYR:HB3	1.87	0.56
1:B:542:ASP:HA	1:B:658:THR:HG21	1.86	0.56
3:E:20:ARG:HG2	3:E:30:GLN:NE2	2.20	0.56
1:A:243:ASP:OD2	1:A:325:ALA:HB3	2.06	0.56
1:A:313:TYR:OH	1:A:361:GLN:NE2	2.39	0.56
1:B:95:LEU:H	1:B:778:THR:HB	1.71	0.56
1:B:434:LYS:HE3	1:B:625:TRP:CH2	2.41	0.56
1:B:476:SER:O	1:B:480:LEU:N	2.28	0.56
1:B:478:GLU:OE1	1:B:600:LYS:NZ	2.38	0.56
2:C:120:THR:HA	2:C:132:MET:CE	2.36	0.56
2:C:155:SER:O	2:C:303:THR:N	2.39	0.56
2:C:352:PHE:CD2	2:C:356:TRP:HE3	2.23	0.56
2:D:136:ILE:O	2:D:140:LEU:N	2.32	0.56
2:D:221:LEU:HD23	2:D:312:ARG:HB2	1.88	0.56
1:A:157:ALA:HA	1:A:173:ILE:HG13	1.88	0.55
1:B:60:GLU:O	1:B:62:GLN:HG3	2.06	0.55
1:B:269:THR:HG1	1:B:439:PHE:HE2	1.54	0.55
1:B:411:ARG:CZ	2:C:93:GLU:HA	2.37	0.55
1:B:562:GLU:HB3	1:B:566:HIS:CE1	2.41	0.55
2:C:14:SER:OG	2:C:74:GLY:N	2.28	0.55
2:C:352:PHE:HD2	2:C:356:TRP:HE3	1.53	0.55
2:D:124:PHE:CG	2:D:359:LYS:HA	2.41	0.55
1:A:89:MET:O	1:A:95:LEU:HD22	2.06	0.55
1:A:114:TYR:HD1	1:A:123:VAL:HA	1.70	0.55
1:A:256:PHE:HA	1:A:262:ILE:HA	1.88	0.55
1:A:765:ASN:O	1:A:777:ARG:NH2	2.39	0.55
1:B:17:LYS:NZ	1:B:18:ASN:O	2.37	0.55
1:B:311:ASN:ND2	1:B:316:LEU:O	2.39	0.55
1:B:560:ILE:HG23	1:B:571:LYS:HE2	1.87	0.55
1:B:724:ARG:HG2	1:B:775:PHE:CD1	2.41	0.55
2:D:85:ILE:O	2:D:89:THR:OG1	2.18	0.55
2:D:150:GLY:N	2:D:165:ILE:HB	2.19	0.55
2:D:152:VAL:HG13	2:D:298:VAL:HB	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:219:VAL:HG13	2:D:262:PHE:CE2	2.41	0.55
3:E:79:ASN:OD1	3:E:80:LYS:N	2.37	0.55
4:F:66:ASP:O	4:F:70:GLU:HG2	2.06	0.55
4:F:80:ILE:HB	4:F:85:PHE:HB3	1.88	0.55
3:H:16:GLN:HG2	3:H:24:GLY:HA2	1.89	0.55
1:A:53:LYS:HB2	1:A:56:GLU:HB2	1.87	0.55
1:A:285:ARG:NH1	1:A:288:HIS:CD2	2.75	0.55
1:A:613:LEU:O	1:A:616:SER:OG	2.16	0.55
1:A:834:LYS:NZ	4:G:161:ILE:HG23	2.21	0.55
1:B:12:PHE:CE2	1:B:131:PRO:HD2	2.41	0.55
1:B:313:TYR:CD1	1:B:360:LEU:HB3	2.42	0.55
1:B:368:LYS:O	1:B:420:LYS:HG2	2.07	0.55
1:B:397:ASP:HA	1:B:400:ARG:HH12	1.71	0.55
1:B:437:ARG:HB2	1:B:625:TRP:CD1	2.40	0.55
1:B:845:THR:HA	1:B:848:LYS:HD3	1.88	0.55
3:E:90:GLU:O	3:E:94:VAL:HG22	2.07	0.55
3:H:103:VAL:HG23	3:H:138:ILE:HB	1.89	0.55
3:H:119:MET:HG3	3:H:120:THR:H	1.72	0.55
1:A:362:LEU:CD1	1:A:434:LYS:HD3	2.37	0.55
1:B:10:GLU:HA	1:B:13:LEU:HB2	1.88	0.55
2:C:19:ALA:C	2:C:340:TRP:HE1	2.09	0.55
2:C:124:PHE:HB3	2:C:359:LYS:HG3	1.87	0.55
2:C:369:ILE:O	2:C:373:LYS:N	2.40	0.55
2:D:27:PRO:HA	2:D:340:TRP:CE2	2.41	0.55
2:D:189:LEU:HD21	2:D:212:ILE:CG2	2.36	0.55
1:A:230:ILE:O	1:A:234:PHE:N	2.28	0.55
1:A:527:LEU:HD11	1:A:566:HIS:HB3	1.87	0.55
1:B:701:VAL:O	1:B:705:LEU:HG	2.07	0.55
1:B:702:LEU:HD11	1:B:711:LEU:HD13	1.88	0.55
2:C:90:PHE:HB2	2:C:98:PRO:HD3	1.89	0.55
2:C:237:GLU:CA	2:C:250:ILE:O	2.51	0.55
4:F:126:LEU:HD13	4:F:133:PHE:H	1.72	0.55
1:A:231:LEU:HD12	1:A:250:LYS:HZ1	1.71	0.55
1:A:394:ASN:ND2	1:A:396:THR:OG1	2.39	0.55
1:A:475:ASN:ND2	1:A:479:GLN:O	2.38	0.55
1:A:496:THR:HB	1:A:681:PHE:CE1	2.41	0.55
1:A:530:ARG:HH22	1:A:566:HIS:CD2	2.24	0.55
1:A:752:ALA:O	1:A:756:MET:HG3	2.06	0.55
1:A:767:TYR:HB3	1:A:776:PHE:CD1	2.42	0.55
1:A:844:PHE:HD2	4:G:88:MET:HA	1.72	0.55
1:B:220:LEU:HD22	1:B:452:LYS:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:342:MET:CG	1:B:446:VAL:HA	2.37	0.55
2:C:28:ARG:NH1	2:C:94:LEU:HD23	2.22	0.55
2:C:317:ILE:HG22	2:C:327:ILE:HD13	1.88	0.55
2:D:105:LEU:HD12	2:D:134:VAL:HG13	1.89	0.55
2:D:253:GLU:HA	2:D:256:ARG:HD2	1.89	0.55
2:D:302:GLY:HA2	2:D:336:LYS:HG3	1.88	0.55
3:H:71:PRO:O	3:H:75:THR:HG22	2.06	0.55
1:A:29:TRP:HA	1:A:34:LEU:HD22	1.87	0.55
1:A:234:PHE:CZ	1:A:289:ILE:HG12	2.42	0.55
1:A:488:LYS:HG3	1:A:671:MET:HG3	1.89	0.55
1:B:156:ILE:HG23	1:B:680:ASN:HB3	1.89	0.55
1:B:241:LYS:NZ	1:B:703:GLU:OE2	2.38	0.55
1:B:313:TYR:OH	1:B:361:GLN:NE2	2.40	0.55
1:B:367:PHE:CD2	1:B:403:LEU:HD12	2.40	0.55
2:C:124:PHE:CG	2:C:359:LYS:HA	2.42	0.55
2:D:34:ILE:O	2:D:55:GLY:N	2.39	0.55
4:F:131:ASP:N	4:F:131:ASP:OD1	2.39	0.55
1:A:97:GLU:OE1	1:A:101:LEU:HD12	2.07	0.55
1:A:134:SER:H	1:A:154:TYR:HE2	1.54	0.55
1:A:220:LEU:CD1	1:A:452:LYS:HB2	2.37	0.55
1:A:434:LYS:HG2	1:A:625:TRP:CZ2	2.42	0.55
1:A:546:TRP:NE1	1:A:657:ARG:HG3	2.21	0.55
1:A:737:LEU:HA	1:A:791:LYS:HG2	1.87	0.55
1:B:362:LEU:HA	1:B:365:ILE:HD12	1.88	0.55
1:B:365:ILE:HG21	1:B:398:PHE:CE2	2.40	0.55
1:B:508:GLU:CG	1:B:773:LYS:HB2	2.36	0.55
2:C:66:THR:OG1	2:C:68:LYS:NZ	2.38	0.55
2:D:193:LEU:HD21	2:D:250:ILE:HG23	1.89	0.55
3:E:119:MET:SD	3:E:124:VAL:HG12	2.46	0.55
4:F:34:LYS:HD3	4:F:82:PHE:HE1	1.71	0.55
4:F:80:ILE:HA	4:F:84:MET:HE2	1.88	0.55
3:H:20:ARG:HG2	3:H:30:GLN:HE22	1.71	0.55
3:H:83:GLY:HA3	3:H:88:TYR:CE1	2.41	0.55
1:A:35:VAL:CG2	1:A:47:ALA:HB3	2.37	0.55
1:A:47:ALA:CB	1:A:61:LEU:HA	2.35	0.55
1:A:141:TYR:OH	1:A:150:PRO:O	2.24	0.55
1:A:244:ASN:HA	1:A:288:HIS:CE1	2.39	0.55
1:A:527:LEU:HD12	1:A:530:ARG:NH2	2.21	0.55
1:A:570:GLN:N	1:A:582:CYS:O	2.21	0.55
1:A:598:LEU:HG	1:A:602:MET:HB2	1.88	0.55
1:B:35:VAL:CG2	1:B:47:ALA:H	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:46:ALA:N	1:B:102:HIS:HE1	2.04	0.55
1:B:286:THR:HG23	1:B:316:LEU:HD23	1.88	0.55
1:B:291:TYR:HD1	1:B:310:PHE:CD1	2.25	0.55
1:B:438:LEU:HD12	1:B:624:LEU:HD22	1.87	0.55
1:B:799:PHE:CE1	3:E:144:VAL:HG22	2.42	0.55
2:C:59:GLN:HB3	2:C:62:ARG:NH2	2.22	0.55
2:D:1:ASP:N	2:D:353:GLN:HG2	2.22	0.55
2:D:119:MET:SD	2:D:134:VAL:HG11	2.46	0.55
2:D:198:TYR:HB3	2:D:248:ILE:HG23	1.89	0.55
1:A:194:LEU:HB2	1:A:262:ILE:HD11	1.87	0.55
1:A:540:LEU:HD13	1:A:559:LEU:HA	1.89	0.55
1:B:26:GLN:NE2	1:B:790:LEU:HB2	2.21	0.55
1:B:141:TYR:HE1	1:B:149:MET:HB2	1.72	0.55
1:B:165:LEU:HD13	1:B:259:THR:HA	1.89	0.55
1:B:175:CYS:HB2	1:B:464:LEU:O	2.07	0.55
1:B:190:VAL:HG11	1:B:461:LEU:HD21	1.87	0.55
1:B:504:GLU:HB3	1:B:724:ARG:HE	1.71	0.55
1:B:757:ILE:HD13	1:B:767:TYR:CD2	2.42	0.55
2:C:185:LEU:HD21	2:C:303:THR:HG23	1.89	0.55
2:C:219:VAL:HG11	2:C:309:ILE:HA	1.89	0.55
2:C:358:THR:N	2:C:361:GLU:HB2	2.22	0.55
2:D:1:ASP:H2	2:D:353:GLN:HG2	1.72	0.55
2:D:123:MET:HA	2:D:127:PHE:HB2	1.87	0.55
2:D:299:MET:O	2:D:335:ARG:NE	2.40	0.55
1:A:141:TYR:HD2	1:A:154:TYR:HB2	1.70	0.54
1:A:154:TYR:CD1	1:A:193:TYR:HB2	2.43	0.54
1:A:227:ALA:HA	1:A:446:VAL:HG22	1.89	0.54
1:A:273:GLU:O	1:A:276:ARG:N	2.41	0.54
1:A:728:GLN:NE2	1:A:732:GLN:HG3	2.22	0.54
1:B:228:ASN:OD1	1:B:250:LYS:NZ	2.23	0.54
1:B:292:TYR:CD1	1:B:328:ASP:HA	2.43	0.54
1:B:800:GLN:HG2	3:E:112:LEU:HA	1.88	0.54
1:B:806:TYR:HB2	3:E:147:VAL:O	2.07	0.54
2:C:76:ILE:O	2:C:115:ASN:ND2	2.39	0.54
3:E:28:TYR:CE1	3:E:64:LEU:HD13	2.42	0.54
1:A:580:GLU:HB3	1:A:593:ASN:HD22	1.72	0.54
1:B:291:TYR:CG	1:B:316:LEU:HD22	2.42	0.54
1:B:301:MET:O	1:B:305:LEU:HG	2.07	0.54
1:B:305:LEU:HB2	1:B:307:LEU:HG	1.87	0.54
1:B:536:GLY:O	1:B:540:LEU:N	2.40	0.54
2:C:113:LYS:O	2:C:117:GLU:HG3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:35:VAL:HG22	2:D:54:VAL:HA	1.87	0.54
2:D:105:LEU:HB2	2:D:134:VAL:HG12	1.89	0.54
2:D:107:GLU:HB3	2:D:374:CYS:SG	2.47	0.54
2:D:200:PHE:CD1	2:D:205:GLU:HB3	2.42	0.54
2:D:351:THR:O	2:D:355:MET:N	2.40	0.54
1:A:179:SER:OG	1:A:246:SER:N	2.40	0.54
1:A:223:GLN:HB2	1:A:450:LEU:HA	1.90	0.54
1:A:247:ARG:NH2	1:A:470:GLU:OE1	2.37	0.54
1:A:357:SER:HB2	1:A:390:LEU:HD13	1.90	0.54
1:A:491:GLN:N	1:A:521:LEU:HD22	2.23	0.54
1:A:523:PRO:O	1:A:527:LEU:HB2	2.07	0.54
1:B:190:VAL:HB	1:B:463:ILE:HD13	1.88	0.54
1:B:447:ASN:HA	1:B:450:LEU:HB3	1.89	0.54
1:B:718:ARG:O	1:B:777:ARG:NH1	2.39	0.54
2:D:20:GLY:N	2:D:340:TRP:HE1	2.05	0.54
2:D:223:PHE:CG	2:D:259:GLU:HG3	2.42	0.54
3:E:127:LEU:CD1	3:E:147:VAL:HG21	2.38	0.54
4:F:48:ILE:HB	4:F:80:ILE:HD11	1.89	0.54
4:F:109:PHE:CE1	4:F:125:LEU:HD13	2.43	0.54
3:H:64:LEU:CD2	3:H:72:MET:HG2	2.38	0.54
1:A:108:TYR:HD2	1:A:696:LEU:HB2	1.71	0.54
1:A:114:TYR:CD2	1:A:152:HIS:HA	2.42	0.54
1:B:164:MET:HB3	1:B:459:SER:OG	2.08	0.54
1:B:705:LEU:HB3	1:B:711:LEU:N	2.22	0.54
1:B:802:GLN:N	3:E:82:GLN:HG3	2.23	0.54
2:C:86:TRP:HB3	2:C:123:MET:HE1	1.89	0.54
2:C:154:ASP:HB3	2:C:161:HIS:CD2	2.42	0.54
2:C:369:ILE:HD12	2:C:372:ARG:HB2	1.90	0.54
2:D:294:TYR:HB3	2:D:326:LYS:O	2.07	0.54
4:G:52:ASP:O	4:G:56:MET:HG2	2.07	0.54
1:A:45:GLU:CD	1:A:64:ASN:HD21	2.10	0.54
1:A:97:GLU:HA	1:A:100:VAL:HB	1.88	0.54
1:A:313:TYR:CD2	1:A:360:LEU:HB3	2.43	0.54
1:A:521:LEU:HG	1:A:586:TYR:CG	2.43	0.54
1:A:524:CYS:O	1:A:528:ILE:HG12	2.08	0.54
1:B:23:PRO:CB	3:E:94:VAL:HB	2.37	0.54
1:B:35:VAL:C	1:B:78:MET:HB2	2.28	0.54
1:B:109:PHE:CE1	1:B:696:LEU:HB3	2.42	0.54
1:B:295:ALA:HB2	1:B:310:PHE:CZ	2.42	0.54
1:B:387:VAL:O	1:B:391:MET:HG2	2.07	0.54
1:B:530:ARG:O	1:B:536:GLY:N	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:606:ASN:HB3	1:B:609:VAL:HB	1.89	0.54
2:C:212:ILE:HD13	2:C:250:ILE:HD11	1.90	0.54
2:C:310:ALA:O	2:C:329:ILE:HD12	2.07	0.54
2:D:78:ASN:CB	2:D:81:ASP:HB2	2.34	0.54
2:D:83:GLU:HA	2:D:127:PHE:CE2	2.43	0.54
3:E:12:LYS:HD3	3:E:66:PHE:CG	2.42	0.54
1:A:141:TYR:HA	1:A:144:LYS:HB2	1.88	0.54
1:A:254:ILE:HG22	1:A:256:PHE:HE1	1.72	0.54
1:B:127:TYR:CG	1:B:691:LYS:HA	2.42	0.54
1:B:174:LEU:HD12	1:B:683:ARG:HH22	1.72	0.54
1:B:188:LYS:HA	1:B:191:ILE:HB	1.90	0.54
1:B:393:ILE:HG21	1:B:613:LEU:HA	1.89	0.54
1:B:487:GLU:CD	1:B:585:HIS:HD1	2.11	0.54
1:B:687:PRO:HB2	1:B:695:LYS:O	2.08	0.54
1:B:795:VAL:HG21	3:E:91:GLY:HA3	1.89	0.54
2:C:79:TRP:HE3	2:C:122:ILE:HD11	1.71	0.54
4:F:64:PRO:HB2	4:F:68:TYR:CD1	2.42	0.54
1:A:108:TYR:CZ	1:A:687:PRO:HG3	2.42	0.54
1:A:237:ALA:HA	1:A:288:HIS:CD2	2.42	0.54
1:A:609:VAL:HA	1:A:612:LEU:HB3	1.89	0.54
1:A:705:LEU:O	1:A:710:VAL:N	2.41	0.54
1:B:153:ILE:HD13	1:B:186:ASN:HA	1.90	0.54
1:B:323:ILE:HD12	1:B:331:MET:SD	2.48	0.54
1:B:541:LEU:HB2	1:B:555:PHE:CZ	2.41	0.54
2:C:14:SER:N	2:C:158:GLY:HA2	2.22	0.54
2:C:141:SER:HB3	2:C:300:SER:HB3	1.88	0.54
2:C:157:ASP:N	2:C:302:GLY:HA3	2.22	0.54
2:C:185:LEU:HG	2:C:257:CYS:C	2.27	0.54
2:D:151:ILE:HD12	2:D:282:ILE:HG13	1.89	0.54
2:D:315:LYS:NZ	2:D:316:GLU:OE2	2.37	0.54
2:D:317:ILE:CG2	2:D:327:ILE:HD13	2.34	0.54
3:H:83:GLY:HA3	3:H:88:TYR:CZ	2.43	0.54
1:A:129:GLN:HG3	1:A:133:TYR:HB2	1.89	0.54
1:A:293:LEU:HD11	1:A:305:LEU:HD13	1.90	0.54
1:A:400:ARG:HH12	1:A:406:ARG:NH1	2.04	0.54
1:A:480:LEU:HD21	1:A:538:LEU:HD22	1.89	0.54
1:A:537:VAL:O	1:A:555:PHE:HE1	1.91	0.54
1:A:547:PHE:HE1	2:D:349:LEU:HD21	1.72	0.54
1:A:806:TYR:CZ	3:H:147:VAL:HB	2.42	0.54
1:B:273:GLU:N	1:B:287:PHE:HZ	2.05	0.54
1:B:812:PHE:CZ	3:E:37:ALA:HB3	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:156:GLY:CA	2:C:182:GLY:H	2.21	0.54
2:D:56:ASP:HA	2:D:59:GLN:HG2	1.89	0.54
2:D:133:TYR:CE1	2:D:373:LYS:HG3	2.43	0.54
2:D:165:ILE:HD12	2:D:169:TYR:CD2	2.42	0.54
2:D:189:LEU:HD12	2:D:253:GLU:HB3	1.90	0.54
4:G:93:LEU:HB3	4:G:163:LYS:NZ	2.23	0.54
3:H:84:CYS:O	3:H:88:TYR:N	2.28	0.54
1:A:250:LYS:HE3	1:A:269:THR:HG22	1.89	0.54
1:A:846:LYS:HD3	4:G:75:GLU:HG3	1.90	0.54
1:B:508:GLU:OE2	1:B:771:GLN:N	2.41	0.54
1:B:517:PHE:HB3	1:B:716:ILE:HG12	1.90	0.54
1:B:538:LEU:HD23	1:B:664:LYS:HE3	1.90	0.54
1:B:573:LYS:HG3	1:B:576:LYS:H	1.72	0.54
2:C:224:GLU:N	2:C:224:GLU:OE1	2.41	0.54
2:D:225:ASN:O	2:D:229:THR:HG23	2.07	0.54
3:H:127:LEU:O	3:H:131:HIS:ND1	2.40	0.54
1:A:114:TYR:CD1	1:A:123:VAL:HG22	2.42	0.54
1:A:275:SER:H	1:A:663:TYR:HH	1.54	0.54
1:A:560:ILE:HA	1:A:563:GLN:HE21	1.73	0.54
1:B:122:VAL:HG13	1:B:685:ILE:HD13	1.90	0.54
1:B:514:PHE:HE2	1:B:721:PHE:CD2	2.25	0.54
1:B:822:MET:O	1:B:826:GLN:HG3	2.08	0.54
2:C:26:ALA:HA	2:C:341:ILE:HG12	1.91	0.54
2:C:124:PHE:CZ	2:C:132:MET:HB3	2.43	0.54
1:A:44:PHE:CD1	1:A:98:ALA:HA	2.39	0.53
1:A:46:ALA:HB3	1:A:63:GLU:HG3	1.90	0.53
1:A:239:THR:HA	1:A:284:GLU:HG2	1.89	0.53
1:A:294:ILE:CD1	1:A:316:LEU:HD12	2.35	0.53
1:A:331:MET:HA	1:A:334:GLU:HG2	1.90	0.53
1:A:724:ARG:HA	1:A:775:PHE:HA	1.90	0.53
1:A:810:LYS:HB2	3:H:147:VAL:CG1	2.37	0.53
1:B:66:LYS:HD3	1:B:68:VAL:HG21	1.89	0.53
1:B:80:PRO:O	1:B:83:PHE:N	2.31	0.53
1:B:186:ASN:O	1:B:189:LYS:HB2	2.08	0.53
1:B:223:GLN:CB	1:B:450:LEU:HA	2.38	0.53
1:B:248:PHE:HB2	1:B:270:TYR:O	2.08	0.53
1:B:253:ARG:NE	1:B:255:ASN:OD1	2.41	0.53
1:B:300:GLN:NE2	1:B:304:ASP:OD2	2.40	0.53
2:C:159:VAL:HG13	2:C:161:HIS:CE1	2.42	0.53
2:C:236:LEU:HD23	2:C:254:ARG:HH12	1.73	0.53
2:C:261:LEU:HD22	2:C:303:THR:CG2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:279:TYR:OH	2:C:294:TYR:OH	2.26	0.53
2:C:282:ILE:HA	2:C:293:LEU:HD12	1.91	0.53
2:C:286:ASP:O	2:C:290:ARG:N	2.28	0.53
3:E:38:LEU:HB2	3:E:40:GLN:HE22	1.73	0.53
3:E:103:VAL:CG2	3:E:140:TYR:HB3	2.38	0.53
1:A:114:TYR:HB3	1:A:121:CYS:SG	2.49	0.53
1:A:398:PHE:HA	1:A:609:VAL:CG2	2.38	0.53
1:A:407:ILE:HD11	1:A:418:GLN:OE1	2.09	0.53
1:A:437:ARG:HG2	1:A:627:ASP:HB3	1.89	0.53
1:A:807:LEU:O	1:A:811:ALA:HB2	2.08	0.53
1:B:290:PHE:HB2	1:B:316:LEU:HD21	1.90	0.53
1:B:425:PHE:CD2	1:B:602:MET:HG2	2.43	0.53
1:B:537:VAL:HA	1:B:540:LEU:HD12	1.89	0.53
1:B:763:ASP:O	1:B:767:TYR:N	2.32	0.53
2:C:94:LEU:C	2:C:96:VAL:H	2.12	0.53
2:C:118:LYS:O	2:C:122:ILE:HB	2.08	0.53
2:C:127:PHE:O	2:C:129:VAL:N	2.41	0.53
2:C:291:LYS:HA	2:C:294:TYR:CD2	2.42	0.53
2:D:120:THR:HB	2:D:370:VAL:CG2	2.37	0.53
2:D:150:GLY:HA3	2:D:296:ASN:HB2	1.91	0.53
3:E:36:ARG:HA	3:E:42:PRO:HD2	1.89	0.53
3:E:96:ASP:OD1	3:E:98:GLU:HG2	2.07	0.53
3:H:92:LEU:HD22	3:H:103:VAL:HG21	1.90	0.53
1:A:104:LEU:CD1	1:A:705:LEU:HD11	2.38	0.53
1:A:253:ARG:HG3	1:A:460:PHE:CD2	2.43	0.53
1:A:402:ILE:HD11	1:A:609:VAL:HG11	1.89	0.53
1:A:537:VAL:HG21	1:A:583:ILE:HD11	1.90	0.53
1:A:586:TYR:OH	1:A:712:GLU:HB3	2.08	0.53
1:A:831:ALA:O	1:A:834:LYS:HB3	2.08	0.53
1:B:9:ASP:C	1:B:132:ILE:HG22	2.28	0.53
1:B:158:ASP:OD1	1:B:193:TYR:OH	2.26	0.53
1:B:274:LYS:O	1:B:277:ALA:HB3	2.07	0.53
2:C:8:LEU:HD13	2:C:94:LEU:HD13	1.89	0.53
2:D:37:ARG:HD3	2:D:51:ASP:HB3	1.90	0.53
2:D:369:ILE:HD12	2:D:372:ARG:HD2	1.90	0.53
3:E:68:GLN:HA	3:E:71:PRO:HD2	1.91	0.53
3:E:93:ARG:HH11	3:E:100:ASN:N	2.07	0.53
3:H:15:PHE:O	3:H:26:ILE:HG12	2.09	0.53
1:A:309:GLY:H	1:A:312:ASN:HB2	1.73	0.53
1:A:484:TYR:OH	1:A:529:GLU:OE1	2.21	0.53
1:B:95:LEU:HD22	1:B:714:ILE:HG23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:352:ILE:O	1:B:356:VAL:HG23	2.07	0.53
1:B:355:VAL:HG21	1:B:624:LEU:CD1	2.38	0.53
1:B:476:SER:H	1:B:479:GLN:HB2	1.73	0.53
2:C:54:VAL:HG22	2:C:84:LYS:HB3	1.89	0.53
2:C:189:LEU:HA	2:C:192:ILE:HD11	1.91	0.53
3:E:12:LYS:HB2	3:E:66:PHE:CZ	2.43	0.53
3:E:36:ARG:HG2	3:E:42:PRO:HD2	1.90	0.53
4:F:103:ARG:NH2	4:F:159:THR:OG1	2.42	0.53
3:H:32:GLY:CA	3:H:47:VAL:HG13	2.33	0.53
1:A:8:ASP:HA	1:A:11:LYS:HB3	1.91	0.53
1:A:17:LYS:HB3	1:A:86:VAL:HA	1.90	0.53
1:A:354:ARG:O	1:A:358:SER:HB2	2.09	0.53
1:A:543:GLU:HG3	2:D:349:LEU:HD22	1.91	0.53
1:A:583:ILE:HG22	1:A:585:HIS:ND1	2.24	0.53
1:A:728:GLN:HE22	1:A:745:GLY:HA2	1.73	0.53
1:B:15:VAL:HG21	1:B:87:GLU:HB2	1.91	0.53
1:B:278:ILE:O	1:B:280:GLN:NE2	2.42	0.53
1:B:510:ILE:HG22	1:B:512:TRP:H	1.72	0.53
1:B:555:PHE:CZ	1:B:594:ALA:HB1	2.44	0.53
1:B:601:ASN:HD21	1:B:658:THR:HB	1.72	0.53
1:B:729:GLU:O	1:B:733:ARG:HG2	2.08	0.53
1:B:781:LEU:O	1:B:785:GLU:HG2	2.09	0.53
2:C:76:ILE:HD12	2:C:119:MET:HG2	1.91	0.53
2:D:37:ARG:HH21	2:D:52:SER:HA	1.74	0.53
2:D:117:GLU:HA	2:D:367:PRO:CB	2.37	0.53
2:D:331:ALA:HA	2:D:335:ARG:HH21	1.73	0.53
2:D:357:ILE:HG13	2:D:373:LYS:HB3	1.91	0.53
3:E:141:GLU:HB3	3:E:145:ARG:NH2	2.23	0.53
3:H:88:TYR:HB3	3:H:144:VAL:HG11	1.89	0.53
1:A:620:PHE:CZ	1:A:624:LEU:HD12	2.43	0.53
1:B:2:SER:O	1:B:10:GLU:HB3	2.09	0.53
1:B:49:ILE:HA	1:B:59:VAL:HG12	1.91	0.53
1:B:142:LYS:HB2	1:B:197:VAL:HG22	1.89	0.53
1:B:145:LYS:HG3	1:B:162:ARG:NH2	2.24	0.53
1:B:426:ALA:HB1	1:B:606:ASN:HB2	1.90	0.53
1:B:510:ILE:HD12	1:B:768:ARG:HB3	1.90	0.53
1:B:556:VAL:HG11	1:B:579:THR:HA	1.91	0.53
2:C:15:GLY:N	2:C:158:GLY:HA2	2.23	0.53
2:C:178:LEU:HD22	2:C:274:ILE:HA	1.90	0.53
2:D:7:ALA:HB3	2:D:347:ALA:HB1	1.91	0.53
2:D:185:LEU:HD21	2:D:261:LEU:HB2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:326:GLN:HG2	1:A:331:MET:HE2	1.90	0.53
1:B:160:ALA:HA	1:B:171:GLN:HG3	1.90	0.53
1:B:441:TRP:CH2	1:B:623:ASP:HB3	2.43	0.53
1:B:734:TYR:HE2	1:B:784:LEU:HB3	1.72	0.53
1:B:792:ILE:HG12	3:E:94:VAL:CG2	2.39	0.53
2:C:16:LEU:HD23	2:C:32:PRO:HA	1.90	0.53
2:C:46:GLY:O	2:C:61:LYS:NZ	2.42	0.53
2:C:62:ARG:HB3	2:C:204:ALA:HB1	1.89	0.53
2:C:334:GLU:O	2:C:338:SER:HB3	2.08	0.53
2:D:118:LYS:HB3	2:D:122:ILE:HD11	1.90	0.53
2:D:303:THR:HA	2:D:306:TYR:CZ	2.43	0.53
2:D:356:TRP:C	2:D:373:LYS:HG2	2.29	0.53
3:E:47:VAL:HG12	3:E:48:MET:SD	2.49	0.53
1:A:138:ILE:HA	1:A:154:TYR:HB3	1.91	0.53
1:A:224:LEU:HD22	1:A:252:ILE:HG21	1.91	0.53
1:A:471:ILE:HG13	1:A:483:ASN:ND2	2.23	0.53
1:B:12:PHE:HA	1:B:112:LEU:HA	1.91	0.53
1:B:77:LYS:HD2	1:B:782:ALA:HB3	1.91	0.53
1:B:218:GLY:HA3	1:B:262:ILE:HG21	1.91	0.53
1:B:500:LEU:O	1:B:504:GLU:HG2	2.08	0.53
1:B:517:PHE:HB3	1:B:716:ILE:HD13	1.91	0.53
1:B:521:LEU:HG	1:B:586:TYR:CG	2.44	0.53
1:B:594:ALA:HA	1:B:597:TRP:CE2	2.44	0.53
2:C:189:LEU:HG	2:C:209:VAL:HG13	1.90	0.53
2:D:71:ILE:HG12	2:D:76:ILE:HA	1.91	0.53
2:D:94:LEU:HB3	2:D:96:VAL:HG22	1.90	0.53
3:H:43:THR:HG21	3:H:117:GLU:HG2	1.89	0.53
1:A:232:GLU:O	1:A:236:ASN:HB2	2.08	0.53
1:A:309:GLY:N	1:A:312:ASN:HB2	2.24	0.53
1:A:605:LEU:O	1:A:655:MET:N	2.42	0.53
1:A:834:LYS:HG3	4:G:144:GLU:OE1	2.09	0.53
1:B:35:VAL:CG2	1:B:75:ILE:HA	2.39	0.53
1:B:44:PHE:CD2	1:B:98:ALA:HA	2.44	0.53
1:B:195:ALA:HA	1:B:262:ILE:HD12	1.90	0.53
1:B:224:LEU:HD11	1:B:250:LYS:NZ	2.23	0.53
1:B:554:SER:HA	1:B:557:GLU:HB2	1.90	0.53
2:C:286:ASP:N	2:C:289:ILE:HB	2.23	0.53
3:E:28:TYR:N	3:E:59:MET:O	2.42	0.53
4:G:85:PHE:HA	4:G:88:MET:HB2	1.90	0.53
3:H:58:GLU:HG3	3:H:62:LYS:HB3	1.91	0.53
1:A:90:ALA:O	1:A:723:ASN:ND2	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:114:TYR:CE2	1:A:133:TYR:HE2	2.27	0.53
1:A:411:ARG:HH21	2:D:94:LEU:HD23	1.74	0.53
1:A:550:ALA:HB3	1:A:602:MET:SD	2.49	0.53
1:B:10:GLU:HG3	1:B:137:ILE:HD12	1.91	0.53
1:B:294:ILE:HD11	1:B:313:TYR:HD2	1.74	0.53
1:B:355:VAL:HG22	1:B:625:TRP:CH2	2.44	0.53
1:B:685:ILE:HG12	1:B:705:LEU:HD23	1.90	0.53
1:B:687:PRO:O	1:B:695:LYS:NZ	2.41	0.53
2:C:153:LEU:HD21	2:C:155:SER:HB2	1.91	0.53
2:D:18:LYS:HB3	2:D:27:PRO:HB3	1.91	0.53
2:D:124:PHE:HD2	2:D:362:TYR:HB3	1.74	0.53
2:D:180:LEU:HD22	2:D:264:PRO:HG3	1.91	0.53
4:G:84:MET:HE2	4:G:88:MET:HG3	1.91	0.53
1:A:123:VAL:HG11	1:A:186:ASN:OD1	2.09	0.52
1:A:176:THR:HG21	1:A:683:ARG:NH1	2.23	0.52
1:A:256:PHE:HB3	1:A:261:TYR:N	2.24	0.52
1:A:624:LEU:HD22	1:A:625:TRP:CH2	2.44	0.52
1:A:685:ILE:HA	1:A:704:GLN:HB3	1.90	0.52
1:A:807:LEU:HD21	3:H:127:LEU:HD13	1.91	0.52
1:A:845:THR:HG23	4:G:92:LYS:NZ	2.23	0.52
1:B:51:GLU:O	1:B:57:VAL:HA	2.09	0.52
1:B:352:ILE:HA	1:B:438:LEU:HD11	1.90	0.52
1:B:362:LEU:HB2	1:B:431:ALA:HB2	1.90	0.52
1:B:841:TRP:CH2	4:F:162:LEU:HA	2.44	0.52
2:C:9:VAL:HG22	2:C:104:LEU:HB3	1.90	0.52
2:D:70:PRO:HB3	2:D:81:ASP:C	2.29	0.52
2:D:358:THR:H	2:D:361:GLU:CD	2.13	0.52
3:E:42:PRO:HG3	3:E:76:ILE:HD12	1.90	0.52
1:A:124:ILE:HG21	1:A:696:LEU:HD12	1.91	0.52
1:B:78:MET:HG3	1:B:84:SER:OG	2.09	0.52
1:B:154:TYR:CE1	1:B:193:TYR:HB2	2.44	0.52
1:B:234:PHE:CD2	1:B:442:ILE:HD13	2.44	0.52
1:B:326:GLN:HB3	1:B:331:MET:HE1	1.90	0.52
1:B:430:LEU:O	1:B:434:LYS:CB	2.52	0.52
1:B:794:ASP:HA	1:B:797:ILE:HD12	1.91	0.52
2:C:76:ILE:HD12	2:C:119:MET:CG	2.39	0.52
2:C:219:VAL:HA	2:C:258:PRO:HB2	1.92	0.52
2:C:314:GLN:HE22	2:C:327:ILE:HG22	1.74	0.52
2:D:166:TYR:CD2	2:D:289:ILE:HG23	2.44	0.52
3:H:102:THR:HA	3:H:140:TYR:H	1.74	0.52
1:A:101:LEU:HD13	1:A:698:ALA:HB1	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:266:ASN:ND2	1:A:447:ASN:HB3	2.25	0.52
1:A:477:PHE:HE1	1:A:538:LEU:HD21	1.75	0.52
1:A:485:THR:HA	1:A:667:LEU:HD22	1.92	0.52
1:A:526:GLU:HA	1:A:529:GLU:HB3	1.91	0.52
1:B:316:LEU:HG	1:B:360:LEU:HD21	1.92	0.52
2:C:122:ILE:HG23	2:C:126:THR:HB	1.92	0.52
2:C:185:LEU:HB3	2:C:257:CYS:HB3	1.92	0.52
2:D:137:GLN:HG3	2:D:339:VAL:HG11	1.90	0.52
3:E:40:GLN:HG2	3:E:76:ILE:HG22	1.91	0.52
4:G:29:GLN:NE2	4:G:94:ASN:OD1	2.29	0.52
1:A:66:LYS:HB3	1:A:68:VAL:HG23	1.91	0.52
1:A:137:ILE:HB	1:A:154:TYR:CD2	2.44	0.52
1:A:310:PHE:CZ	1:A:321:VAL:HG13	2.44	0.52
1:A:484:TYR:HE1	1:A:525:ILE:HG23	1.75	0.52
1:A:683:ARG:HH21	1:A:710:VAL:HA	1.74	0.52
1:B:293:LEU:HD21	1:B:353:LEU:O	2.08	0.52
1:B:799:PHE:HE2	3:E:108:ILE:HD11	1.75	0.52
2:C:14:SER:HB2	2:C:158:GLY:O	2.08	0.52
2:C:133:TYR:HB2	2:C:356:TRP:HA	1.90	0.52
2:C:155:SER:HA	2:C:160:THR:HG23	1.92	0.52
1:A:100:VAL:HA	1:A:103:ASN:ND2	2.25	0.52
1:A:466:ILE:HD12	1:A:670:LEU:HD23	1.91	0.52
1:A:760:LEU:HB3	1:A:762:LEU:HG	1.92	0.52
1:A:762:LEU:HB2	1:A:767:TYR:OH	2.08	0.52
1:A:795:VAL:HG11	3:H:90:GLU:HB3	1.91	0.52
1:B:141:TYR:CE2	1:B:152:HIS:HD2	2.28	0.52
1:B:406:ARG:H	1:B:608:ASN:ND2	2.03	0.52
1:B:734:TYR:CD2	1:B:737:LEU:HD12	2.44	0.52
1:B:804:ARG:HD2	3:E:43:THR:HG23	1.91	0.52
2:C:120:THR:HG23	2:C:124:PHE:CE2	2.45	0.52
2:C:192:ILE:HD12	2:C:253:GLU:HA	1.91	0.52
2:D:113:LYS:O	2:D:117:GLU:HG3	2.08	0.52
4:F:128:THR:HG23	4:F:129:MET:HG2	1.89	0.52
1:A:56:GLU:HA	1:A:69:THR:HG23	1.91	0.52
1:A:532:THR:HG22	1:A:533:ASN:N	2.21	0.52
1:A:582:CYS:O	1:A:583:ILE:HG13	2.09	0.52
1:B:18:ASN:HB3	1:B:81:PRO:HB2	1.92	0.52
1:B:273:GLU:O	1:B:276:ARG:N	2.43	0.52
1:B:282:LYS:H	1:B:474:ILE:HG21	1.74	0.52
1:B:418:GLN:HB3	1:B:655:MET:HE1	1.92	0.52
1:B:598:LEU:O	1:B:602:MET:N	2.32	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:668:THR:O	1:B:672:THR:HG23	2.10	0.52
2:C:103:THR:O	2:C:132:MET:HA	2.10	0.52
2:C:125:GLU:OE2	2:C:362:TYR:OH	2.25	0.52
2:C:178:LEU:HG	2:C:180:LEU:H	1.75	0.52
2:C:219:VAL:HG21	2:C:309:ILE:HB	1.91	0.52
2:C:314:GLN:HB2	2:C:329:ILE:HD12	1.91	0.52
2:D:98:PRO:HB3	2:D:103:THR:HG21	1.90	0.52
2:D:122:ILE:HG22	2:D:127:PHE:CE2	2.45	0.52
2:D:279:TYR:HA	2:D:282:ILE:HD12	1.91	0.52
3:E:46:GLU:O	3:E:50:VAL:HG13	2.10	0.52
4:G:42:GLN:HG2	4:G:52:ASP:HB3	1.91	0.52
4:G:146:PRO:HD2	4:G:153:PHE:HE2	1.73	0.52
3:H:33:ASP:O	3:H:36:ARG:HB2	2.10	0.52
3:H:102:THR:OG1	3:H:137:CYS:HB3	2.09	0.52
1:A:6:LEU:HD23	1:A:6:LEU:H	1.74	0.52
1:A:198:ALA:HB3	1:A:262:ILE:HG13	1.91	0.52
1:A:285:ARG:NH1	1:A:288:HIS:HA	2.23	0.52
1:A:809:ARG:HB2	3:H:41:ASN:CB	2.35	0.52
1:B:335:THR:HG22	1:B:339:MET:HE1	1.91	0.52
1:B:489:LEU:HD13	1:B:674:LEU:HD11	1.91	0.52
2:C:279:TYR:HH	2:C:294:TYR:HH	1.56	0.52
2:D:12:ASN:HD22	2:D:86:TRP:HZ2	1.57	0.52
2:D:73:HIS:CE1	2:D:179:ASP:HA	2.45	0.52
3:E:109:ARG:NH2	3:E:132:GLU:OE2	2.43	0.52
3:E:128:VAL:HA	3:E:143:LEU:CD1	2.39	0.52
3:H:49:LYS:HA	3:H:53:ASN:HD22	1.75	0.52
1:A:15:VAL:HG23	1:A:150:PRO:HB3	1.91	0.52
1:A:23:PRO:HG2	1:A:793:THR:HG22	1.91	0.52
1:A:138:ILE:CG1	1:A:193:TYR:HA	2.40	0.52
1:A:728:GLN:NE2	1:A:745:GLY:HA2	2.24	0.52
1:B:238:LYS:HB2	1:B:285:ARG:HD3	1.92	0.52
1:B:291:TYR:CD1	1:B:316:LEU:HD22	2.45	0.52
1:B:408:LYS:HA	1:B:413:VAL:HG13	1.92	0.52
1:B:728:GLN:HE22	1:B:745:GLY:H	1.58	0.52
1:B:795:VAL:HG13	3:E:88:TYR:HA	1.91	0.52
1:B:832:TYR:OH	4:F:141:MET:SD	2.55	0.52
2:C:261:LEU:HD11	2:C:274:ILE:HD12	1.91	0.52
2:D:34:ILE:HD11	2:D:210:ARG:HD3	1.91	0.52
2:D:120:THR:HB	2:D:370:VAL:HG21	1.92	0.52
2:D:218:TYR:C	2:D:258:PRO:HG2	2.30	0.52
4:F:160:ARG:HG3	4:F:165:GLY:HA3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:3:PHE:HB3	3:H:7:GLN:NE2	2.24	0.52
1:A:185:GLU:O	1:A:189:LYS:HG2	2.08	0.52
1:A:402:ILE:HG13	1:A:609:VAL:HG21	1.90	0.52
1:A:700:LEU:O	1:A:703:GLU:HB3	2.10	0.52
1:B:95:LEU:H	1:B:778:THR:CB	2.23	0.52
1:B:164:MET:SD	1:B:461:LEU:HB2	2.50	0.52
1:B:182:GLY:HA3	1:B:684:CYS:HB3	1.92	0.52
1:B:290:PHE:O	1:B:316:LEU:HD11	2.10	0.52
1:B:367:PHE:CE2	1:B:403:LEU:HD12	2.45	0.52
1:B:411:ARG:HG3	2:C:28:ARG:HE	1.75	0.52
1:B:602:MET:HG3	1:B:604:PRO:HD3	1.92	0.52
1:B:688:ASN:HD22	1:B:692:ARG:HD2	1.74	0.52
1:B:722:PRO:O	1:B:724:ARG:NH1	2.41	0.52
1:B:739:ALA:HB2	1:B:756:MET:HG2	1.91	0.52
1:B:754:ILE:O	1:B:758:LYS:HG2	2.10	0.52
1:B:757:ILE:HG22	1:B:758:LYS:HD3	1.92	0.52
2:C:86:TRP:NE1	2:C:105:LEU:HD13	2.25	0.52
2:C:318:THR:HG22	2:C:327:ILE:H	1.75	0.52
2:D:304:THR:O	2:D:309:ILE:HG21	2.09	0.52
3:E:86:GLU:HA	3:E:89:VAL:HG22	1.92	0.52
3:E:88:TYR:CD2	3:E:144:VAL:HG11	2.45	0.52
1:A:338:ALA:HA	1:A:341:ILE:HD12	1.91	0.52
1:B:101:LEU:HD21	1:B:702:LEU:HB2	1.91	0.52
1:B:243:ASP:OD1	1:B:691:LYS:NZ	2.22	0.52
1:B:514:PHE:CG	1:B:720:GLY:HA2	2.45	0.52
1:B:750:LYS:HE3	1:B:771:GLN:HA	1.92	0.52
1:B:768:ARG:NH2	1:B:769:ILE:HB	2.25	0.52
2:C:67:LEU:HD22	2:C:207:GLU:CB	2.40	0.52
2:D:9:VAL:HA	2:D:104:LEU:O	2.10	0.52
2:D:107:GLU:HB2	2:D:119:MET:SD	2.50	0.52
2:D:275:HIS:HB2	2:D:317:ILE:HD13	1.91	0.52
2:D:350:SER:O	2:D:354:GLN:HG2	2.10	0.52
1:A:165:LEU:HD22	1:A:260:GLY:HA3	1.92	0.51
1:A:187:THR:HG23	1:A:463:ILE:HG21	1.92	0.51
1:A:541:LEU:HB2	1:A:555:PHE:CG	2.45	0.51
1:A:757:ILE:O	1:A:761:GLU:N	2.42	0.51
1:A:848:LYS:HE2	4:G:87:THR:HG21	1.91	0.51
1:B:13:LEU:HD21	1:B:152:HIS:CG	2.45	0.51
1:B:108:TYR:OH	1:B:694:GLY:N	2.43	0.51
1:B:229:PRO:HA	1:B:232:GLU:HB2	1.92	0.51
1:B:559:LEU:HB3	1:B:569:PHE:HZ	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:616:SER:HB2	1:B:622:ALA:HB2	1.92	0.51
1:B:723:ASN:O	1:B:724:ARG:HG3	2.10	0.51
1:B:734:TYR:HA	1:B:737:LEU:HB2	1.92	0.51
1:B:734:TYR:CE2	1:B:784:LEU:HB3	2.45	0.51
2:D:53:TYR:CE2	2:D:65:LEU:HD21	2.45	0.51
2:D:90:PHE:HZ	2:D:105:LEU:HD23	1.74	0.51
2:D:313:MET:O	2:D:316:GLU:HB2	2.10	0.51
1:A:83:PHE:HB2	1:A:92:LEU:HD23	1.93	0.51
1:A:477:PHE:HE2	1:A:659:VAL:HG23	1.75	0.51
1:B:231:LEU:HD11	1:B:267:ILE:HD12	1.93	0.51
2:C:12:ASN:HB2	2:C:71:ILE:HD11	1.91	0.51
2:D:12:ASN:ND2	2:D:86:TRP:HZ2	2.08	0.51
2:D:78:ASN:O	2:D:82:MET:N	2.43	0.51
2:D:192:ILE:HD12	2:D:256:ARG:HD3	1.92	0.51
2:D:208:ILE:HG23	2:D:240:TYR:CE2	2.45	0.51
3:E:4:SER:OG	3:E:7:GLN:OE1	2.24	0.51
1:A:59:VAL:HG23	1:A:61:LEU:HG	1.92	0.51
1:A:368:LYS:HB2	1:A:376:ALA:CA	2.40	0.51
1:A:416:LYS:HE3	2:D:334:GLU:HB3	1.92	0.51
1:A:534:PRO:HB2	1:A:562:GLU:CG	2.40	0.51
1:A:657:ARG:H	1:A:657:ARG:HD2	1.75	0.51
1:A:710:VAL:O	1:A:714:ILE:HG13	2.10	0.51
1:A:728:GLN:HA	1:A:731:ARG:HE	1.76	0.51
1:A:821:ALA:O	1:A:825:ILE:HG13	2.11	0.51
1:B:727:PHE:HB3	1:B:731:ARG:HH22	1.75	0.51
1:B:776:PHE:HB3	1:B:781:LEU:HD11	1.92	0.51
2:C:16:LEU:HD12	2:C:336:LYS:HD2	1.91	0.51
2:C:68:LYS:C	2:C:69:TYR:HD1	2.14	0.51
2:C:86:TRP:HZ3	2:C:122:ILE:HD13	1.75	0.51
2:C:365:ALA:HB1	2:C:372:ARG:HH11	1.75	0.51
2:D:108:ALA:HB2	2:D:159:VAL:HG11	1.90	0.51
2:D:118:LYS:O	2:D:122:ILE:HG13	2.11	0.51
2:D:171:LEU:HB2	2:D:174:ALA:HB3	1.92	0.51
3:E:32:GLY:CA	3:E:47:VAL:HG13	2.34	0.51
3:H:97:LYS:NZ	3:H:111:VAL:HG11	2.26	0.51
1:A:77:LYS:H	1:A:96:ASN:HD22	1.58	0.51
1:A:113:ILE:HG23	1:A:124:ILE:O	2.11	0.51
1:A:156:ILE:CG2	1:A:173:ILE:HD12	2.37	0.51
1:A:434:LYS:HA	1:A:625:TRP:HE1	1.74	0.51
1:A:444:THR:O	1:A:448:LYS:HG3	2.11	0.51
1:A:504:GLU:HG3	1:A:721:PHE:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:146:ARG:N	1:B:159:THR:OG1	2.43	0.51
2:C:113:LYS:HG3	2:C:371:HIS:NE2	2.26	0.51
2:C:370:VAL:O	2:C:374:CYS:N	2.22	0.51
2:D:12:ASN:OD1	2:D:12:ASN:N	2.37	0.51
2:D:361:GLU:CB	2:D:369:ILE:HG12	2.30	0.51
1:A:92:LEU:HD22	1:A:99:SER:HB2	1.93	0.51
1:A:142:LYS:HA	1:A:193:TYR:OH	2.11	0.51
1:A:186:ASN:O	1:A:190:VAL:HG23	2.09	0.51
1:A:256:PHE:N	1:A:256:PHE:CD1	2.78	0.51
1:A:488:LYS:HB2	1:A:667:LEU:HD21	1.92	0.51
1:B:101:LEU:HD23	1:B:104:LEU:HD13	1.92	0.51
1:B:251:PHE:CE1	1:B:268:GLU:HB3	2.45	0.51
1:B:510:ILE:HA	1:B:768:ARG:HG3	1.93	0.51
1:B:802:GLN:NE2	3:E:148:LEU:HA	2.25	0.51
1:B:837:ASN:ND2	4:F:137:GLU:OE2	2.40	0.51
2:D:258:PRO:O	2:D:261:LEU:HB3	2.10	0.51
3:E:3:PHE:HE2	3:E:11:PHE:HZ	1.58	0.51
4:F:105:ALA:HA	4:F:108:CYS:SG	2.51	0.51
3:H:35:MET:SD	3:H:73:MET:HB2	2.51	0.51
1:A:484:TYR:HA	1:A:585:HIS:NE2	2.25	0.51
1:B:194:LEU:HD13	1:B:256:PHE:CZ	2.42	0.51
1:B:358:SER:HB2	1:B:387:VAL:HG23	1.91	0.51
1:B:539:ALA:O	1:B:543:GLU:HG3	2.10	0.51
1:B:585:HIS:CD2	1:B:590:VAL:HB	2.41	0.51
1:B:735:GLU:HG3	1:B:743:PRO:HA	1.93	0.51
1:B:796:ILE:HB	3:E:115:LEU:HD12	1.91	0.51
2:C:86:TRP:CZ3	2:C:122:ILE:HD13	2.46	0.51
2:D:72:GLU:HB2	2:D:77:THR:HG21	1.92	0.51
3:E:105:GLY:CA	3:E:138:ILE:HG12	2.39	0.51
3:H:56:SER:HA	3:H:59:MET:SD	2.51	0.51
3:H:111:VAL:HA	3:H:115:LEU:HD12	1.92	0.51
1:A:104:LEU:O	1:A:696:LEU:HD13	2.11	0.51
1:A:249:GLY:HA3	1:A:670:LEU:HD22	1.92	0.51
1:A:301:MET:O	1:A:305:LEU:N	2.41	0.51
1:B:272:LEU:N	1:B:666:GLN:OE1	2.42	0.51
1:B:393:ILE:HD12	1:B:612:LEU:HD23	1.92	0.51
1:B:470:GLU:OE1	1:B:470:GLU:HA	2.11	0.51
1:B:586:TYR:OH	1:B:712:GLU:HB3	2.11	0.51
1:B:726:VAL:O	1:B:730:PHE:N	2.37	0.51
2:C:24:ASP:HB2	2:C:340:TRP:CH2	2.44	0.51
2:C:180:LEU:HD21	2:C:260:THR:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:220:ALA:N	2:C:259:GLU:OE2	2.43	0.51
2:C:223:PHE:HD1	2:C:255:PHE:HD2	1.59	0.51
4:F:100:ASP:OD1	4:F:101:VAL:N	2.40	0.51
3:H:139:ASN:HB3	3:H:142:GLU:HB3	1.92	0.51
1:A:137:ILE:HB	1:A:154:TYR:HD2	1.76	0.51
1:A:344:PHE:HE1	1:A:441:TRP:CD1	2.28	0.51
1:A:425:PHE:CD2	1:A:602:MET:HG2	2.46	0.51
1:A:806:TYR:OH	3:H:148:LEU:N	2.44	0.51
1:B:138:ILE:CG2	1:B:197:VAL:HG23	2.39	0.51
1:B:527:LEU:HA	1:B:566:HIS:HD2	1.75	0.51
1:B:746:PHE:HD2	1:B:752:ALA:HB2	1.75	0.51
2:C:163:VAL:HG22	2:C:175:ILE:HD13	1.92	0.51
2:D:15:GLY:HA3	2:D:157:ASP:HB3	1.93	0.51
2:D:103:THR:OG1	2:D:123:MET:SD	2.50	0.51
2:D:105:LEU:HB2	2:D:134:VAL:CG1	2.40	0.51
2:D:282:ILE:HG12	2:D:293:LEU:C	2.31	0.51
2:D:355:MET:HA	2:D:373:LYS:HD2	1.92	0.51
2:D:365:ALA:HB3	2:D:369:ILE:HB	1.93	0.51
3:E:70:LEU:O	3:E:74:GLN:HG2	2.11	0.51
3:E:141:GLU:HB3	3:E:145:ARG:HH22	1.75	0.51
1:A:2:SER:HA	1:A:141:TYR:OH	2.10	0.51
1:A:119:LEU:CD1	1:A:500:LEU:HB2	2.40	0.51
1:A:272:LEU:CD2	1:A:436:GLU:HA	2.40	0.51
1:B:48:SER:O	1:B:50:LYS:HG2	2.10	0.51
1:B:156:ILE:HG21	1:B:682:VAL:HG23	1.93	0.51
1:B:291:TYR:CD2	1:B:316:LEU:HD22	2.46	0.51
1:B:514:PHE:HB2	1:B:720:GLY:HA2	1.92	0.51
2:C:277:THR:HG22	2:C:280:ASN:HD22	1.76	0.51
2:D:153:LEU:HD12	2:D:278:THR:OG1	2.10	0.51
3:H:93:ARG:HD3	3:H:140:TYR:OH	2.11	0.51
1:A:293:LEU:HD21	1:A:305:LEU:HD13	1.92	0.51
1:A:616:SER:HB2	1:A:622:ALA:HB2	1.92	0.51
1:B:9:ASP:HB3	1:B:137:ILE:HD11	1.93	0.51
1:B:12:PHE:HD1	1:B:111:GLY:O	1.94	0.51
1:B:32:LYS:HB3	1:B:49:ILE:N	2.25	0.51
1:B:126:PRO:HB2	1:B:128:LYS:HG2	1.93	0.51
1:B:143:GLY:C	1:B:144:LYS:HD3	2.31	0.51
1:B:171:GLN:NE2	1:B:678:ASN:HB3	2.20	0.51
1:B:175:CYS:H	1:B:464:LEU:HB3	1.76	0.51
1:B:291:TYR:CE1	1:B:321:VAL:HA	2.46	0.51
1:B:561:GLN:HB2	1:B:562:GLU:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:736:ILE:HG12	1:B:792:ILE:HG13	1.93	0.51
2:C:109:PRO:HG3	2:C:136:ILE:HG22	1.93	0.51
2:D:2:GLU:OE1	2:D:6:THR:OG1	2.22	0.51
2:D:34:ILE:HG12	2:D:69:TYR:CE2	2.46	0.51
3:E:104:MET:N	3:E:107:GLU:HG2	2.26	0.51
1:A:34:LEU:HD12	1:A:47:ALA:O	2.11	0.50
1:A:126:PRO:HB2	1:A:128:LYS:CG	2.41	0.50
1:A:296:GLY:CA	1:A:329:ASP:HA	2.41	0.50
1:A:327:GLN:HG2	1:A:329:ASP:H	1.76	0.50
1:A:357:SER:O	1:A:361:GLN:HG2	2.11	0.50
1:A:530:ARG:NH2	1:A:536:GLY:HA2	2.26	0.50
1:A:736:ILE:HG12	1:A:792:ILE:HG12	1.92	0.50
1:A:844:PHE:HA	4:F:62:LYS:HB3	1.93	0.50
1:B:17:LYS:HA	1:B:85:LYS:HE3	1.92	0.50
1:B:18:ASN:ND2	1:B:81:PRO:HB2	2.27	0.50
1:B:29:TRP:HZ2	1:B:34:LEU:N	1.97	0.50
1:B:130:LEU:C	1:B:132:ILE:H	2.14	0.50
1:B:144:LYS:HB3	1:B:149:MET:HG2	1.94	0.50
1:B:365:ILE:HB	1:B:427:ILE:HD12	1.92	0.50
1:B:583:ILE:HD12	1:B:592:TYR:CD2	2.46	0.50
1:B:669:LYS:O	1:B:673:THR:HG23	2.12	0.50
2:C:17:VAL:HG11	2:C:85:ILE:HG23	1.93	0.50
2:C:137:GLN:HB3	2:C:161:HIS:NE2	2.27	0.50
2:C:223:PHE:CE1	2:C:256:ARG:HG2	2.46	0.50
3:H:7:GLN:HA	3:H:10:GLU:HB2	1.93	0.50
1:A:132:ILE:HG13	1:A:133:TYR:CE2	2.46	0.50
1:A:136:LYS:O	1:A:140:MET:N	2.22	0.50
1:A:342:MET:N	1:A:342:MET:SD	2.83	0.50
1:A:344:PHE:CE1	1:A:441:TRP:HD1	2.29	0.50
1:B:289:ILE:HG13	1:B:356:VAL:HG11	1.93	0.50
1:B:339:MET:HE3	1:B:349:GLN:HB3	1.93	0.50
2:C:153:LEU:HA	2:C:161:HIS:O	2.11	0.50
2:C:299:MET:HG3	2:C:329:ILE:HG23	1.94	0.50
2:C:370:VAL:HG12	2:C:374:CYS:O	2.11	0.50
2:D:86:TRP:CE2	2:D:105:LEU:HD22	2.46	0.50
2:D:223:PHE:CD1	2:D:259:GLU:HG3	2.47	0.50
2:D:368:SER:O	2:D:372:ARG:N	2.43	0.50
3:E:41:ASN:ND2	3:E:81:ASP:HA	2.26	0.50
1:A:10:GLU:HG2	1:A:137:ILE:CD1	2.41	0.50
1:A:104:LEU:HD11	1:A:705:LEU:HD11	1.93	0.50
1:A:127:TYR:OH	1:A:686:ILE:HD12	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:230:ILE:HG22	1:A:234:PHE:CD2	2.46	0.50
1:A:294:ILE:HB	1:A:310:PHE:CE1	2.46	0.50
1:A:730:PHE:HB3	1:A:753:CYS:SG	2.50	0.50
1:B:107:ARG:O	1:B:112:LEU:N	2.38	0.50
1:B:161:TYR:HB2	1:B:193:TYR:HE2	1.76	0.50
1:B:191:ILE:HD13	1:B:221:GLU:HB3	1.92	0.50
1:B:762:LEU:HD22	1:B:780:VAL:HG21	1.93	0.50
2:C:294:TYR:HA	2:C:327:ILE:HG23	1.93	0.50
2:D:86:TRP:HH2	2:D:119:MET:HA	1.75	0.50
2:D:218:TYR:CE2	2:D:220:ALA:HA	2.47	0.50
2:D:297:ASN:ND2	2:D:317:ILE:HG13	2.24	0.50
3:E:64:LEU:HD21	3:E:69:PHE:HA	1.92	0.50
4:F:48:ILE:O	4:F:73:MET:HE1	2.12	0.50
4:F:106:PHE:HB3	4:F:155:TYR:CE1	2.47	0.50
1:A:42:HIS:HB2	1:A:101:LEU:CD1	2.41	0.50
1:A:83:PHE:CE2	1:A:782:ALA:HB1	2.46	0.50
1:A:275:SER:O	1:A:279:ARG:N	2.31	0.50
1:A:344:PHE:CE1	1:A:441:TRP:CD1	2.99	0.50
1:A:494:ASN:ND2	1:A:586:TYR:OH	2.32	0.50
1:A:541:LEU:HG	1:A:601:ASN:OD1	2.11	0.50
1:A:704:GLN:HB3	1:A:708:ASN:ND2	2.26	0.50
1:B:485:THR:CA	1:B:667:LEU:HD13	2.40	0.50
1:B:517:PHE:HB3	1:B:716:ILE:CG1	2.41	0.50
1:B:815:ARG:HA	3:E:20:ARG:HH22	1.76	0.50
2:C:147:ARG:HE	2:C:330:ILE:HG21	1.75	0.50
2:D:14:SER:HA	2:D:71:ILE:O	2.12	0.50
2:D:98:PRO:CB	2:D:127:PHE:HB3	2.38	0.50
2:D:294:TYR:HD1	2:D:327:ILE:HD11	1.76	0.50
3:E:28:TYR:CE1	3:E:51:LEU:HD22	2.46	0.50
3:E:128:VAL:HG22	3:E:143:LEU:HD21	1.93	0.50
4:G:91:GLU:HA	4:G:94:ASN:HB2	1.94	0.50
3:H:4:SER:OG	3:H:7:GLN:OE1	2.19	0.50
1:A:13:LEU:HD11	1:A:151:PRO:O	2.12	0.50
1:A:15:VAL:HG21	1:A:87:GLU:HG2	1.93	0.50
1:A:563:GLN:HA	1:A:566:HIS:ND1	2.27	0.50
1:A:687:PRO:HB2	1:A:695:LYS:O	2.12	0.50
1:A:730:PHE:CE2	1:A:757:ILE:HG13	2.47	0.50
1:B:266:ASN:HD21	1:B:447:ASN:HB3	1.76	0.50
1:B:358:SER:HG	1:B:391:MET:CE	2.24	0.50
1:B:570:GLN:CB	1:B:582:CYS:HB2	2.37	0.50
2:C:17:VAL:HG11	2:C:85:ILE:CG2	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:120:THR:CG2	2:C:362:TYR:HB2	2.41	0.50
2:C:214:GLU:HA	2:C:306:TYR:CE1	2.45	0.50
2:D:70:PRO:HB2	2:D:82:MET:SD	2.51	0.50
2:D:183:ARG:NH1	2:D:184:ASP:OD1	2.44	0.50
4:F:29:GLN:HA	4:F:32:GLU:HG2	1.92	0.50
3:H:84:CYS:HB3	3:H:87:ASP:HB2	1.94	0.50
3:H:103:VAL:HG22	3:H:140:TYR:HB3	1.93	0.50
1:A:8:ASP:OD1	1:A:11:LYS:HB3	2.12	0.50
1:A:51:GLU:HB3	1:A:58:THR:OG1	2.12	0.50
1:A:275:SER:OG	1:A:478:GLU:HG3	2.11	0.50
1:A:373:THR:OG1	1:A:417:ALA:O	2.14	0.50
1:A:438:LEU:O	1:A:442:ILE:HG12	2.11	0.50
1:B:76:GLN:HB3	1:B:96:ASN:HB3	1.92	0.50
1:B:294:ILE:HA	1:B:307:LEU:HD13	1.93	0.50
1:B:420:LYS:HA	1:B:423:ALA:HB3	1.93	0.50
1:B:735:GLU:CD	1:B:744:LYS:H	2.15	0.50
2:C:149:THR:HA	2:C:165:ILE:HG21	1.93	0.50
2:C:185:LEU:HG	2:C:257:CYS:O	2.11	0.50
2:C:188:TYR:CE2	2:C:192:ILE:HD13	2.46	0.50
2:C:207:GLU:OE1	2:C:210:ARG:NE	2.44	0.50
2:C:218:TYR:C	2:C:258:PRO:HG2	2.31	0.50
2:D:155:SER:HB3	2:D:160:THR:HA	1.92	0.50
3:E:128:VAL:O	3:E:132:GLU:HG3	2.12	0.50
4:G:100:ASP:OD1	4:G:101:VAL:N	2.41	0.50
3:H:70:LEU:HA	3:H:73:MET:HG3	1.93	0.50
1:A:35:VAL:HG13	1:A:74:ASP:C	2.32	0.50
1:A:199:SER:H	1:A:261:TYR:HD1	1.58	0.50
1:A:251:PHE:HB3	1:A:673:THR:HG21	1.94	0.50
1:A:342:MET:O	1:A:445:ARG:HG3	2.11	0.50
1:A:399:THR:CG2	1:A:403:LEU:HD21	2.41	0.50
1:A:789:ASP:O	1:A:793:THR:HG23	2.11	0.50
1:B:57:VAL:HG12	1:B:59:VAL:CG1	2.39	0.50
1:B:79:ASN:CG	1:B:94:CYS:H	2.15	0.50
1:B:108:TYR:HB3	1:B:696:LEU:HD13	1.93	0.50
1:B:338:ALA:O	1:B:342:MET:HG2	2.11	0.50
1:B:517:PHE:HB3	1:B:716:ILE:CD1	2.41	0.50
1:B:705:LEU:O	1:B:709:GLY:N	2.45	0.50
2:C:101:HIS:O	2:C:129:VAL:HG13	2.12	0.50
2:C:123:MET:SD	2:C:129:VAL:HG21	2.52	0.50
2:C:189:LEU:HD21	2:C:212:ILE:HG22	1.94	0.50
2:D:70:PRO:HG3	2:D:85:ILE:HG12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:79:TRP:HB2	2:D:122:ILE:HD11	1.92	0.50
2:D:368:SER:HA	2:D:371:HIS:HD2	1.76	0.50
3:E:65:ASN:OD1	3:E:68:GLN:HB2	2.12	0.50
4:F:125:LEU:HD12	4:F:129:MET:HG3	1.94	0.50
1:A:126:PRO:HB2	1:A:128:LYS:HG3	1.94	0.50
1:A:156:ILE:HG22	1:A:173:ILE:HG23	1.93	0.50
1:A:177:GLY:O	1:A:468:GLY:N	2.40	0.50
1:A:342:MET:HG3	1:A:446:VAL:HA	1.94	0.50
1:A:555:PHE:CZ	1:A:559:LEU:HD11	2.47	0.50
1:A:737:LEU:CD2	1:A:760:LEU:HD21	2.42	0.50
1:B:18:ASN:ND2	1:B:28:ASP:OD2	2.45	0.50
1:B:35:VAL:HG13	1:B:76:GLN:H	1.77	0.50
1:B:101:LEU:HD11	1:B:702:LEU:CB	2.39	0.50
1:B:233:ALA:HB2	1:B:335:THR:OG1	2.12	0.50
1:B:395:VAL:O	1:B:399:THR:OG1	2.22	0.50
2:C:166:TYR:CD2	2:C:285:CYS:HA	2.47	0.50
2:D:37:ARG:HB2	2:D:68:LYS:NZ	2.26	0.50
2:D:41:GLN:HG2	2:D:51:ASP:OD1	2.11	0.50
2:D:98:PRO:HG2	2:D:127:PHE:CG	2.46	0.50
2:D:257:CYS:O	2:D:260:THR:OG1	2.16	0.50
2:D:297:ASN:O	2:D:329:ILE:HG12	2.11	0.50
3:E:93:ARG:HH22	3:E:103:VAL:HG13	1.76	0.50
3:H:146:MET:O	3:H:150:GLY:N	2.42	0.50
1:A:2:SER:N	1:A:137:ILE:HG23	2.27	0.50
1:A:241:LYS:NZ	1:A:707:CYS:SG	2.75	0.50
1:A:253:ARG:HG3	1:A:460:PHE:CG	2.47	0.50
1:A:276:ARG:HB2	1:A:478:GLU:HG2	1.94	0.50
1:A:508:GLU:HB2	1:A:510:ILE:HG13	1.94	0.50
1:B:45:GLU:HB2	1:B:61:LEU:HD22	1.94	0.50
1:B:282:LYS:O	1:B:284:GLU:HG3	2.12	0.50
1:B:314:THR:N	1:B:364:ASN:HD21	2.10	0.50
1:B:659:VAL:HG22	1:B:662:LEU:HD12	1.94	0.50
1:B:796:ILE:HG21	3:E:111:VAL:CG2	2.42	0.50
1:B:797:ILE:HG12	3:E:116:GLY:N	2.27	0.50
1:A:356:VAL:HG23	1:A:438:LEU:HD21	1.94	0.49
1:A:404:THR:OG1	1:A:415:GLN:NE2	2.45	0.49
1:B:42:HIS:N	1:B:101:LEU:HD13	2.27	0.49
1:B:95:LEU:H	1:B:778:THR:CG2	2.24	0.49
1:B:121:CYS:HB2	1:B:156:ILE:HD13	1.94	0.49
1:B:323:ILE:HG22	1:B:324:PRO:O	2.12	0.49
1:B:384:ALA:HA	1:B:387:VAL:HG12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:444:THR:O	1:B:448:LYS:HG3	2.11	0.49
1:B:543:GLU:OE2	1:B:558:LYS:NZ	2.45	0.49
1:B:575:LEU:HA	1:B:578:LYS:HE3	1.92	0.49
2:C:135:ALA:HB3	2:C:140:LEU:HD11	1.94	0.49
2:C:365:ALA:HB3	2:C:369:ILE:HB	1.93	0.49
3:E:18:PHE:CZ	3:E:30:GLN:HG2	2.47	0.49
3:E:97:LYS:N	3:E:97:LYS:HD2	2.26	0.49
4:G:54:HIS:NE2	4:G:64:PRO:O	2.43	0.49
3:H:80:LYS:HA	3:H:82:GLN:OE1	2.12	0.49
1:A:13:LEU:HD13	1:A:132:ILE:HD12	1.94	0.49
1:A:95:LEU:HB2	1:A:718:ARG:HE	1.77	0.49
1:A:339:MET:SD	1:A:349:GLN:HG2	2.52	0.49
1:A:434:LYS:HG2	1:A:625:TRP:CE2	2.47	0.49
1:B:59:VAL:HG23	1:B:61:LEU:HG	1.94	0.49
1:B:92:LEU:HD11	1:B:103:ASN:HD21	1.78	0.49
1:B:221:GLU:H	1:B:221:GLU:CD	2.11	0.49
1:B:296:GLY:HA2	1:B:329:ASP:HA	1.94	0.49
1:B:521:LEU:HG	1:B:586:TYR:CD1	2.47	0.49
1:B:806:TYR:CZ	3:E:131:HIS:HE1	2.30	0.49
2:C:20:GLY:C	2:C:94:LEU:HD21	2.33	0.49
2:D:23:GLY:N	2:D:344:SER:O	2.35	0.49
2:D:100:GLU:N	2:D:130:PRO:HD3	2.27	0.49
2:D:227:MET:HG3	2:D:252:ASN:CB	2.42	0.49
2:D:257:CYS:HB2	2:D:258:PRO:HD3	1.94	0.49
3:H:85:PHE:HA	3:H:88:TYR:HB2	1.94	0.49
1:A:92:LEU:HD11	1:A:103:ASN:ND2	2.24	0.49
1:A:113:ILE:CG2	1:A:126:PRO:HD3	2.42	0.49
1:A:290:PHE:C	1:A:316:LEU:HD11	2.33	0.49
1:A:361:GLN:HE22	1:A:386:LYS:HD3	1.77	0.49
1:A:843:LEU:HD23	4:F:65:THR:HA	1.93	0.49
1:B:156:ILE:CG2	1:B:680:ASN:HB3	2.43	0.49
1:B:271:LEU:HD11	1:B:485:THR:HG21	1.93	0.49
1:B:361:GLN:OE1	1:B:386:LYS:HD3	2.12	0.49
1:B:502:GLN:HB3	1:B:506:GLN:NE2	2.28	0.49
1:B:677:THR:O	1:B:679:PRO:HD3	2.12	0.49
1:B:727:PHE:HB3	1:B:731:ARG:NH2	2.27	0.49
1:B:785:GLU:O	1:B:788:ARG:HG2	2.12	0.49
1:B:844:PHE:O	1:B:848:LYS:HG3	2.12	0.49
2:C:13:GLY:O	2:C:71:ILE:HD12	2.11	0.49
2:C:109:PRO:HB2	2:C:175:ILE:HG21	1.94	0.49
2:C:157:ASP:H	2:C:302:GLY:HA3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:303:THR:HA	2:C:306:TYR:CD2	2.48	0.49
2:D:106:THR:HG22	2:D:140:LEU:CD1	2.43	0.49
2:D:108:ALA:HB1	2:D:161:HIS:CD2	2.47	0.49
2:D:163:VAL:HG22	2:D:175:ILE:HD11	1.94	0.49
4:F:109:PHE:CZ	4:F:125:LEU:HB2	2.47	0.49
3:H:96:ASP:OD2	3:H:99:GLY:N	2.46	0.49
3:H:104:MET:HB2	3:H:107:GLU:CB	2.40	0.49
3:H:139:ASN:O	3:H:143:LEU:N	2.35	0.49
1:A:2:SER:HB2	1:A:137:ILE:HG23	1.94	0.49
1:A:34:LEU:HB3	1:A:78:MET:O	2.12	0.49
1:A:168:ARG:HH12	1:A:459:SER:N	2.09	0.49
1:A:175:CYS:HB3	1:A:183:LYS:HA	1.93	0.49
1:A:389:HIS:CD2	1:A:390:LEU:HD23	2.43	0.49
1:A:447:ASN:HA	1:A:450:LEU:HB3	1.93	0.49
1:A:559:LEU:O	1:A:563:GLN:HB3	2.13	0.49
1:B:242:ASN:ND2	1:B:691:LYS:HE2	2.27	0.49
1:B:257:ASP:HA	1:B:456:GLN:HB3	1.95	0.49
1:B:269:THR:HG23	1:B:443:LEU:HD13	1.92	0.49
1:B:283:ASP:HA	1:B:320:HIS:NE2	2.27	0.49
1:B:388:CYS:HA	1:B:393:ILE:HG12	1.94	0.49
1:B:418:GLN:NE2	1:B:423:ALA:HA	2.28	0.49
1:B:514:PHE:CB	1:B:720:GLY:HA2	2.43	0.49
2:C:207:GLU:OE2	2:C:210:ARG:HD3	2.12	0.49
2:C:347:ALA:HA	2:C:352:PHE:CB	2.35	0.49
2:D:20:GLY:HA2	2:D:28:ARG:HD2	1.95	0.49
2:D:54:VAL:CG2	2:D:84:LYS:HB3	2.41	0.49
2:D:62:ARG:HB3	2:D:204:ALA:HA	1.94	0.49
3:E:113:VAL:HG13	3:E:124:VAL:HG11	1.94	0.49
4:F:106:PHE:CE2	4:F:153:PHE:HE2	2.31	0.49
1:A:132:ILE:O	1:A:137:ILE:HG21	2.12	0.49
1:A:173:ILE:CG1	1:A:461:LEU:HD11	2.41	0.49
1:A:425:PHE:CG	1:A:602:MET:HG2	2.47	0.49
1:A:509:GLY:H	1:A:771:GLN:NE2	2.09	0.49
1:A:823:LYS:HE3	3:H:10:GLU:HG3	1.92	0.49
1:B:25:ALA:H	1:B:789:ASP:CG	2.15	0.49
1:B:530:ARG:O	1:B:539:ALA:HB3	2.11	0.49
1:B:568:LYS:HA	1:B:584:LEU:HD12	1.94	0.49
2:C:214:GLU:HA	2:C:306:TYR:HE1	1.77	0.49
2:C:274:ILE:HG23	2:C:275:HIS:N	2.26	0.49
2:C:326:LYS:HD2	2:C:327:ILE:N	2.28	0.49
3:H:70:LEU:O	3:H:73:MET:HG3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:TYR:HE2	1:A:695:LYS:C	2.16	0.49
1:A:138:ILE:HG13	1:A:154:TYR:CD2	2.48	0.49
1:A:411:ARG:NE	2:D:28:ARG:HD3	2.28	0.49
1:A:735:GLU:HB2	1:A:756:MET:SD	2.53	0.49
1:B:95:LEU:HD12	1:B:722:PRO:CB	2.43	0.49
1:B:153:ILE:HG12	1:B:682:VAL:HG13	1.95	0.49
1:B:176:THR:HG21	1:B:490:GLN:OE1	2.11	0.49
1:B:270:TYR:O	1:B:271:LEU:HB2	2.12	0.49
1:B:293:LEU:O	1:B:297:ALA:HB3	2.12	0.49
1:B:389:HIS:CD2	1:B:390:LEU:HD23	2.42	0.49
1:B:508:GLU:OE2	1:B:772:SER:N	2.33	0.49
1:B:686:ILE:H	1:B:704:GLN:HG3	1.78	0.49
1:B:725:ILE:HG13	1:B:781:LEU:CD2	2.43	0.49
2:C:289:ILE:HD11	2:D:64:ILE:HG21	1.95	0.49
2:D:73:HIS:HB2	2:D:183:ARG:NH2	2.27	0.49
2:D:299:MET:HE3	2:D:313:MET:SD	2.53	0.49
3:E:104:MET:HB2	3:E:107:GLU:HG2	1.94	0.49
3:H:140:TYR:CE2	3:H:141:GLU:HG3	2.48	0.49
1:A:504:GLU:HB2	1:A:721:PHE:HB2	1.95	0.49
1:A:730:PHE:CG	1:A:774:ILE:HD12	2.47	0.49
1:B:176:THR:C	1:B:183:LYS:HE3	2.33	0.49
1:B:194:LEU:CB	1:B:262:ILE:HD11	2.43	0.49
1:B:502:GLN:HE22	1:B:513:ASN:HB3	1.77	0.49
1:B:537:VAL:HG22	1:B:569:PHE:CE2	2.48	0.49
1:B:683:ARG:HG3	1:B:710:VAL:HG21	1.94	0.49
1:B:767:TYR:CE2	1:B:769:ILE:HG12	2.47	0.49
2:C:119:MET:HE1	2:C:134:VAL:HG13	1.94	0.49
2:D:291:LYS:HA	2:D:294:TYR:HD2	1.78	0.49
2:D:305:MET:SD	2:D:335:ARG:HB3	2.53	0.49
3:H:10:GLU:HA	3:H:13:GLU:HG2	1.95	0.49
3:H:25:LYS:HE3	3:H:65:ASN:HB2	1.94	0.49
3:H:55:LYS:HG2	3:H:58:GLU:HB2	1.94	0.49
3:H:92:LEU:HD13	3:H:140:TYR:HB2	1.95	0.49
1:A:241:LYS:NZ	1:A:469:PHE:O	2.46	0.49
1:A:248:PHE:CZ	1:A:250:LYS:HD2	2.48	0.49
1:A:469:PHE:HA	1:A:486:ASN:HD22	1.78	0.49
1:A:624:LEU:HD22	1:A:625:TRP:CZ3	2.47	0.49
1:A:764:PRO:HG2	1:A:769:ILE:HG12	1.94	0.49
1:B:53:LYS:HE2	1:B:56:GLU:HG2	1.93	0.49
1:B:114:TYR:CE2	1:B:123:VAL:HG13	2.48	0.49
1:B:146:ARG:HG3	1:B:156:ILE:HD11	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:275:SER:H	1:B:663:TYR:HH	1.54	0.49
1:B:562:GLU:HA	1:B:565:ASN:OD1	2.13	0.49
1:B:828:ASN:HD22	4:F:105:ALA:HB2	1.78	0.49
2:C:92:ASN:HA	2:C:95:ARG:CZ	2.43	0.49
2:C:114:ALA:O	2:C:118:LYS:HG3	2.13	0.49
2:C:355:MET:HB2	2:C:355:MET:HE2	1.59	0.49
2:C:357:ILE:HG13	2:C:373:LYS:HB3	1.94	0.49
3:E:66:PHE:CE2	3:E:69:PHE:HD2	2.30	0.49
1:A:47:ALA:HB1	1:A:59:VAL:HB	1.95	0.49
1:A:269:THR:OG1	1:A:440:ARG:NH1	2.46	0.49
1:A:551:THR:HA	1:A:598:LEU:HD22	1.95	0.49
1:B:49:ILE:HA	1:B:59:VAL:CG1	2.43	0.49
1:B:238:LYS:HG2	1:B:239:THR:N	2.28	0.49
1:B:274:LYS:CE	1:B:432:LYS:HB3	2.43	0.49
1:B:527:LEU:HG	1:B:528:ILE:HD13	1.94	0.49
1:B:541:LEU:HD11	1:B:601:ASN:HB3	1.95	0.49
1:B:547:PHE:HD2	1:B:549:LYS:H	1.61	0.49
1:B:556:VAL:HG21	1:B:579:THR:HA	1.94	0.49
2:C:37:ARG:HG2	2:C:51:ASP:O	2.13	0.49
2:C:66:THR:C	2:C:67:LEU:HD12	2.33	0.49
2:C:90:PHE:HA	2:C:94:LEU:HD12	1.95	0.49
2:C:98:PRO:CB	2:C:127:PHE:HB3	2.43	0.49
2:C:132:MET:O	2:C:357:ILE:N	2.45	0.49
2:C:352:PHE:HA	2:C:355:MET:HE2	1.95	0.49
2:D:124:PHE:HE1	2:D:129:VAL:HB	1.78	0.49
2:D:192:ILE:HB	2:D:256:ARG:HH11	1.77	0.49
1:A:42:HIS:HB3	1:A:44:PHE:CZ	2.47	0.49
1:A:276:ARG:HE	1:A:478:GLU:HG2	1.77	0.49
1:A:529:GLU:HA	1:A:664:LYS:HD3	1.95	0.49
1:A:799:PHE:HA	1:A:802:GLN:NE2	2.28	0.49
1:B:5:PRO:HD3	1:B:14:PHE:CD1	2.48	0.49
1:B:183:LYS:HE2	1:B:466:ILE:O	2.12	0.49
1:B:194:LEU:HD22	1:B:256:PHE:CZ	2.48	0.49
1:B:469:PHE:HB2	1:B:707:CYS:CA	2.38	0.49
1:B:535:PRO:HB2	1:B:540:LEU:HD23	1.95	0.49
2:C:19:ALA:O	2:C:28:ARG:HB3	2.12	0.49
2:C:152:VAL:HB	2:C:163:VAL:HB	1.94	0.49
3:E:41:ASN:O	3:E:82:GLN:NE2	2.45	0.49
3:E:110:HIS:CD2	3:E:114:THR:HG21	2.48	0.49
1:A:168:ARG:HH22	1:A:458:ALA:C	2.15	0.48
1:A:220:LEU:HD13	1:A:452:LYS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:ILE:N	1:A:450:LEU:HD21	2.27	0.48
1:A:291:TYR:OH	1:A:318:ASN:HB3	2.13	0.48
1:A:416:LYS:HG3	2:D:334:GLU:HB2	1.95	0.48
1:A:547:PHE:CE1	2:D:349:LEU:HD21	2.48	0.48
1:A:810:LYS:HE3	3:H:146:MET:HE1	1.93	0.48
1:B:161:TYR:HA	1:B:164:MET:CE	2.42	0.48
1:B:171:GLN:HA	1:B:677:THR:HB	1.95	0.48
1:B:302:ARG:CA	1:B:307:LEU:HB2	2.42	0.48
1:B:584:LEU:HA	1:B:589:LYS:HA	1.95	0.48
2:C:61:LYS:O	2:C:65:LEU:N	2.46	0.48
2:C:143:TYR:CZ	2:C:346:LEU:HD21	2.48	0.48
2:C:178:LEU:HG	2:C:180:LEU:HB3	1.95	0.48
2:C:286:ASP:HB2	2:C:289:ILE:HG13	1.95	0.48
2:C:304:THR:HB	2:C:335:ARG:NE	2.21	0.48
2:D:11:ASP:HA	2:D:106:THR:CG2	2.42	0.48
2:D:38:PRO:HB2	2:D:41:GLN:HG3	1.95	0.48
2:D:279:TYR:OH	2:D:322:PRO:HD3	2.13	0.48
4:G:153:PHE:CZ	4:G:158:PHE:HB2	2.49	0.48
3:H:28:TYR:HB3	3:H:51:LEU:HD13	1.95	0.48
1:A:12:PHE:CD1	1:A:111:GLY:HA3	2.40	0.48
1:A:90:ALA:HB1	1:A:722:PRO:HG2	1.96	0.48
1:A:180:GLY:HA3	1:A:244:ASN:O	2.13	0.48
1:B:29:TRP:CE3	1:B:80:PRO:HA	2.48	0.48
1:B:44:PHE:CE2	1:B:101:LEU:HD12	2.46	0.48
1:B:194:LEU:O	1:B:198:ALA:N	2.38	0.48
1:B:194:LEU:HB3	1:B:256:PHE:CZ	2.48	0.48
1:B:219:GLU:O	1:B:222:LYS:HB2	2.13	0.48
1:B:438:LEU:HG	1:B:442:ILE:HD12	1.95	0.48
1:B:573:LYS:HE2	1:B:575:LEU:H	1.76	0.48
2:C:117:GLU:CA	2:C:367:PRO:HB2	2.41	0.48
2:D:67:LEU:HD12	2:D:207:GLU:CB	2.43	0.48
2:D:78:ASN:CG	2:D:81:ASP:H	2.16	0.48
2:D:124:PHE:CE2	2:D:357:ILE:HG22	2.48	0.48
4:F:64:PRO:HB2	4:F:68:TYR:HD1	1.78	0.48
1:A:13:LEU:HD22	1:A:152:HIS:CD2	2.42	0.48
1:A:15:VAL:CG2	1:A:107:ARG:HH12	2.27	0.48
1:A:171:GLN:HE22	1:A:678:ASN:HB3	1.76	0.48
1:A:242:ASN:O	1:A:245:SER:HB3	2.12	0.48
1:A:255:ASN:OD1	1:A:455:ARG:NH1	2.47	0.48
1:A:302:ARG:HB3	1:A:307:LEU:HB2	1.94	0.48
1:A:342:MET:HA	1:A:449:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:488:LYS:HD2	1:A:491:GLN:NE2	2.28	0.48
1:B:70:LEU:HG	1:B:71:SER:N	2.28	0.48
1:B:116:TYR:HA	1:B:120:PHE:O	2.13	0.48
1:B:487:GLU:HB3	1:B:525:ILE:HG12	1.95	0.48
1:B:835:LEU:HD13	4:F:162:LEU:HD22	1.94	0.48
2:C:11:ASP:O	2:C:17:VAL:HA	2.14	0.48
2:D:220:ALA:HB1	2:D:223:PHE:HA	1.95	0.48
4:F:118:HIS:HB2	4:F:121:HIS:HB2	1.95	0.48
3:H:55:LYS:NZ	3:H:58:GLU:OE1	2.45	0.48
1:A:193:TYR:CZ	1:A:197:VAL:HG21	2.49	0.48
1:A:305:LEU:HD22	1:A:354:ARG:N	2.28	0.48
1:A:378:MET:HE1	1:A:398:PHE:CD2	2.48	0.48
1:A:533:ASN:CG	1:A:565:ASN:HB3	2.33	0.48
1:A:685:ILE:HG23	1:A:704:GLN:HB2	1.95	0.48
1:B:35:VAL:HB	1:B:45:GLU:O	2.13	0.48
1:B:57:VAL:HB	1:B:75:ILE:CD1	2.40	0.48
1:B:430:LEU:HD21	1:B:613:LEU:HD11	1.96	0.48
1:B:498:PHE:CD1	1:B:516:ASP:HA	2.48	0.48
2:C:142:LEU:HD11	2:C:149:THR:N	2.28	0.48
2:C:218:TYR:CE2	2:C:220:ALA:HA	2.48	0.48
2:D:104:LEU:HD12	2:D:352:PHE:CD1	2.42	0.48
2:D:291:LYS:HG3	2:D:325:MET:HB3	1.95	0.48
1:A:89:MET:HG2	1:A:116:TYR:O	2.14	0.48
1:A:108:TYR:OH	1:A:694:GLY:N	2.47	0.48
1:A:127:TYR:CD2	1:A:691:LYS:HA	2.48	0.48
1:A:274:LYS:HE3	1:A:433:ALA:HA	1.94	0.48
1:A:570:GLN:HG3	1:A:589:LYS:HD2	1.95	0.48
1:A:711:LEU:HA	1:A:714:ILE:HD12	1.95	0.48
1:A:754:ILE:HG22	1:A:758:LYS:HE3	1.94	0.48
1:A:809:ARG:HH22	3:H:148:LEU:HD12	1.78	0.48
1:B:416:LYS:HB2	2:C:26:ALA:HB2	1.96	0.48
1:B:531:PRO:C	1:B:535:PRO:HB3	2.34	0.48
1:B:540:LEU:O	1:B:544:GLU:HG2	2.14	0.48
1:B:785:GLU:HA	1:B:788:ARG:NH1	2.28	0.48
2:C:82:MET:HB3	2:C:86:TRP:CZ3	2.48	0.48
2:C:226:GLU:HG3	2:C:255:PHE:CE2	2.49	0.48
2:D:11:ASP:CG	2:D:339:VAL:HB	2.34	0.48
2:D:124:PHE:HA	2:D:128:ASN:HA	1.96	0.48
2:D:130:PRO:O	2:D:358:THR:HG23	2.14	0.48
4:F:35:GLU:O	4:F:39:MET:HG3	2.14	0.48
1:A:230:ILE:HG21	1:A:339:MET:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:717:CYS:HB3	1:A:722:PRO:HG3	1.94	0.48
1:A:731:ARG:CZ	1:A:749:GLY:HA2	2.43	0.48
1:A:750:LYS:O	1:A:754:ILE:HG13	2.14	0.48
1:A:837:ASN:HB2	4:G:143:ARG:HH22	1.79	0.48
1:B:132:ILE:HA	1:B:137:ILE:HG13	1.96	0.48
1:B:418:GLN:CB	1:B:422:GLN:HB2	2.41	0.48
1:B:485:THR:HA	1:B:667:LEU:HD22	1.95	0.48
1:B:498:PHE:HB2	1:B:517:PHE:H	1.79	0.48
2:C:317:ILE:HG22	2:C:327:ILE:HD12	1.96	0.48
2:D:70:PRO:HG3	2:D:85:ILE:CG1	2.43	0.48
2:D:180:LEU:HD13	2:D:264:PRO:HB3	1.95	0.48
3:E:27:LEU:HD12	3:E:63:THR:HG22	1.94	0.48
3:H:36:ARG:HA	3:H:42:PRO:HD2	1.96	0.48
1:A:43:GLY:N	1:A:698:ALA:HB3	2.29	0.48
1:A:79:ASN:HD22	1:A:92:LEU:HD22	1.78	0.48
1:A:175:CYS:SG	1:A:186:ASN:HB2	2.53	0.48
1:A:198:ALA:C	1:A:262:ILE:H	2.16	0.48
1:A:234:PHE:CG	1:A:442:ILE:HG13	2.49	0.48
1:A:250:LYS:CG	1:A:465:ASP:HB2	2.44	0.48
1:A:469:PHE:CZ	1:A:487:GLU:HA	2.47	0.48
1:A:744:LYS:HG2	3:H:93:ARG:HE	1.77	0.48
1:A:751:GLN:NE2	1:A:751:GLN:O	2.47	0.48
1:B:35:VAL:HG11	1:B:74:ASP:C	2.34	0.48
1:B:42:HIS:HA	1:B:699:HIS:CA	2.43	0.48
1:B:101:LEU:HD23	1:B:104:LEU:CD1	2.44	0.48
1:B:102:HIS:CG	1:B:105:ARG:HH21	2.32	0.48
1:B:420:LYS:HA	1:B:423:ALA:CB	2.44	0.48
2:C:124:PHE:CD1	2:C:359:LYS:HA	2.49	0.48
2:C:200:PHE:HZ	2:C:248:ILE:HD12	1.78	0.48
2:C:358:THR:H	2:C:361:GLU:CD	2.16	0.48
2:D:86:TRP:HB3	2:D:123:MET:HE3	1.96	0.48
2:D:117:GLU:HG2	2:D:367:PRO:HB2	1.96	0.48
2:D:124:PHE:CE1	2:D:129:VAL:HB	2.49	0.48
2:D:134:VAL:HG21	2:D:370:VAL:HG13	1.95	0.48
2:D:218:TYR:CD1	2:D:307:PRO:HG2	2.49	0.48
2:D:220:ALA:O	2:D:312:ARG:NH1	2.47	0.48
2:D:345:ILE:O	2:D:349:LEU:HG	2.14	0.48
3:E:11:PHE:CE2	3:E:73:MET:HB2	2.49	0.48
3:H:125:GLU:HA	3:H:128:VAL:HG22	1.96	0.48
1:A:19:PHE:HA	1:A:82:LYS:HA	1.95	0.48
1:A:178:GLU:HB3	1:A:181:ALA:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:ILE:CD1	1:A:463:ILE:HD11	2.43	0.48
1:A:293:LEU:HD11	1:A:305:LEU:CD1	2.43	0.48
1:B:56:GLU:HG3	1:B:69:THR:CG2	2.44	0.48
1:B:391:MET:HA	1:B:391:MET:HE2	1.94	0.48
1:B:392:GLY:HA3	1:B:618:ASP:N	2.25	0.48
1:B:481:CYS:SG	1:B:663:TYR:HD2	2.37	0.48
1:B:505:TYR:HE1	1:B:721:PHE:HB2	1.78	0.48
1:B:531:PRO:HA	1:B:539:ALA:CB	2.43	0.48
2:C:8:LEU:HB2	2:C:103:THR:HA	1.96	0.48
2:C:188:TYR:CE2	2:C:266:PHE:HB3	2.48	0.48
2:C:214:GLU:C	2:C:215:LYS:HD2	2.34	0.48
2:D:178:LEU:HD11	2:D:272:ALA:O	2.13	0.48
3:E:112:LEU:HD13	3:E:127:LEU:HD21	1.96	0.48
4:G:35:GLU:O	4:G:39:MET:HG3	2.14	0.48
1:A:13:LEU:HB2	1:A:132:ILE:HG21	1.96	0.48
1:A:44:PHE:CG	1:A:74:ASP:HA	2.48	0.48
1:A:113:ILE:HG21	1:A:126:PRO:HD3	1.96	0.48
1:A:127:TYR:CG	1:A:691:LYS:HA	2.48	0.48
1:A:251:PHE:CE1	1:A:268:GLU:HB3	2.49	0.48
1:B:92:LEU:HD11	1:B:103:ASN:ND2	2.29	0.48
1:B:165:LEU:O	1:B:168:ARG:HD2	2.14	0.48
1:B:397:ASP:HA	1:B:400:ARG:NH1	2.29	0.48
1:B:539:ALA:HB2	1:B:664:LYS:HZ1	1.79	0.48
2:D:75:ILE:HA	2:D:115:ASN:CG	2.33	0.48
3:E:8:THR:HG23	3:E:70:LEU:HD11	1.96	0.48
1:A:220:LEU:HB2	1:A:265:ALA:HB3	1.96	0.48
1:A:263:VAL:HG21	1:A:456:GLN:HB3	1.96	0.48
1:A:285:ARG:HD2	1:A:322:PRO:O	2.13	0.48
1:B:220:LEU:HD13	1:B:452:LYS:H	1.79	0.48
1:B:437:ARG:NH1	1:B:625:TRP:HB3	2.29	0.48
1:B:768:ARG:O	1:B:774:ILE:HA	2.14	0.48
1:B:812:PHE:CE1	3:E:34:VAL:HA	2.48	0.48
2:C:288:ASP:O	2:C:291:LYS:HB3	2.14	0.48
2:D:20:GLY:H	2:D:94:LEU:HD11	1.78	0.48
2:D:309:ILE:HD11	2:D:313:MET:HE3	1.95	0.48
1:A:35:VAL:HB	1:A:45:GLU:O	2.14	0.47
1:A:480:LEU:HD22	1:A:597:TRP:CH2	2.49	0.47
1:A:744:LYS:NZ	3:H:96:ASP:O	2.33	0.47
1:B:85:LYS:HD3	1:B:106:GLU:HB2	1.96	0.47
1:B:129:GLN:HG3	1:B:189:LYS:HE2	1.96	0.47
1:B:243:ASP:OD1	1:B:244:ASN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:276:ARG:HH22	1:B:479:GLN:HE22	1.61	0.47
1:B:477:PHE:HE1	1:B:660:GLY:HA2	1.78	0.47
1:B:504:GLU:HB3	1:B:775:PHE:CE2	2.49	0.47
1:B:744:LYS:HE2	3:E:99:GLY:HA3	1.95	0.47
1:B:826:GLN:CG	4:F:129:MET:HB3	2.40	0.47
2:C:219:VAL:HG13	2:C:262:PHE:CZ	2.49	0.47
2:C:220:ALA:HB1	2:C:223:PHE:CA	2.45	0.47
2:D:326:LYS:C	2:D:327:ILE:HG13	2.34	0.47
2:D:357:ILE:HG12	2:D:370:VAL:HA	1.96	0.47
3:E:93:ARG:NH1	3:E:100:ASN:OD1	2.47	0.47
4:F:25:PHE:HB2	4:F:30:ILE:HD11	1.96	0.47
4:F:117:ILE:N	4:F:155:TYR:HE1	2.11	0.47
3:H:90:GLU:O	3:H:94:VAL:HG22	2.13	0.47
3:H:108:ILE:O	3:H:112:LEU:N	2.47	0.47
1:A:12:PHE:C	1:A:132:ILE:HG21	2.35	0.47
1:A:257:ASP:O	1:A:260:GLY:N	2.45	0.47
1:A:267:ILE:HG12	1:A:450:LEU:CD2	2.44	0.47
1:A:620:PHE:CE2	1:A:624:LEU:HD12	2.48	0.47
1:B:55:ASP:OD1	1:B:72:LYS:N	2.46	0.47
1:B:405:PRO:HA	1:B:608:ASN:ND2	2.28	0.47
1:B:443:LEU:CA	1:B:446:VAL:HB	2.44	0.47
1:B:477:PHE:HB2	1:B:597:TRP:CG	2.49	0.47
1:B:742:ILE:HD11	1:B:755:LEU:HD12	1.95	0.47
2:C:140:LEU:O	2:C:342:GLY:HA3	2.14	0.47
2:D:21:PHE:O	2:D:344:SER:HB3	2.14	0.47
2:D:137:GLN:HA	2:D:339:VAL:HG13	1.96	0.47
2:D:174:ALA:O	2:D:281:SER:HB2	2.14	0.47
3:E:29:SER:HB3	3:E:60:ASN:OD1	2.14	0.47
3:H:123:GLU:O	3:H:126:GLN:NE2	2.47	0.47
1:A:50:LYS:HG2	1:A:60:GLU:HB2	1.97	0.47
1:A:116:TYR:CE1	1:A:156:ILE:HD11	2.48	0.47
1:A:290:PHE:HA	1:A:356:VAL:CG1	2.44	0.47
1:A:295:ALA:HB3	1:A:328:ASP:CB	2.44	0.47
1:A:532:THR:HG23	2:D:350:SER:HB3	1.96	0.47
1:A:744:LYS:HG2	3:H:93:ARG:NE	2.28	0.47
1:A:847:VAL:O	1:A:850:LEU:HG	2.15	0.47
1:B:142:LYS:HD2	1:B:197:VAL:HG22	1.97	0.47
1:B:361:GLN:O	1:B:365:ILE:HG13	2.14	0.47
1:B:502:GLN:HB3	1:B:506:GLN:HE22	1.79	0.47
1:B:533:ASN:H	2:C:353:GLN:NE2	2.10	0.47
1:B:806:TYR:CZ	3:E:131:HIS:CE1	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:120:THR:HG23	2:C:124:PHE:CD2	2.50	0.47
2:C:289:ILE:HA	2:C:292:ASP:OD2	2.14	0.47
2:C:336:LYS:HE3	2:C:337:TYR:CZ	2.50	0.47
2:D:76:ILE:HD13	2:D:82:MET:HG3	1.97	0.47
2:D:136:ILE:HG22	2:D:139:VAL:H	1.79	0.47
2:D:217:CYS:HA	2:D:254:ARG:HB3	1.95	0.47
3:E:107:GLU:O	3:E:110:HIS:HB3	2.14	0.47
1:A:107:ARG:NE	1:A:115:THR:OG1	2.47	0.47
1:A:441:TRP:HE1	1:A:445:ARG:NH2	2.10	0.47
1:A:688:ASN:HB2	1:A:695:LYS:NZ	2.30	0.47
1:B:291:TYR:HB3	1:B:328:ASP:CG	2.35	0.47
1:B:362:LEU:HA	1:B:365:ILE:CD1	2.45	0.47
1:B:731:ARG:HD2	1:B:746:PHE:H	1.80	0.47
1:B:734:TYR:HD2	1:B:737:LEU:HB2	1.79	0.47
2:C:73:HIS:NE2	2:C:183:ARG:HB2	2.29	0.47
2:C:213:LYS:O	2:C:215:LYS:N	2.48	0.47
2:C:275:HIS:CD2	2:C:316:GLU:HB3	2.50	0.47
2:D:219:VAL:HG21	2:D:309:ILE:HB	1.95	0.47
2:D:300:SER:HA	2:D:335:ARG:CG	2.42	0.47
3:E:3:PHE:HE2	3:E:11:PHE:CZ	2.31	0.47
3:H:48:MET:HA	3:H:51:LEU:HD12	1.96	0.47
1:A:26:GLN:HG3	1:A:786:GLU:HB3	1.97	0.47
1:A:120:PHE:HZ	1:A:497:MET:HE3	1.78	0.47
1:A:272:LEU:HD13	1:A:439:PHE:CD2	2.48	0.47
1:A:393:ILE:HD13	1:A:613:LEU:HD23	1.97	0.47
1:A:511:GLU:OE1	1:A:511:GLU:N	2.37	0.47
1:A:555:PHE:HE2	1:A:594:ALA:HB2	1.80	0.47
1:A:657:ARG:NH1	2:D:4:GLU:OE1	2.47	0.47
1:A:844:PHE:H	4:G:92:LYS:HE3	1.80	0.47
1:B:82:LYS:HZ2	1:B:733:ARG:HE	1.62	0.47
1:B:272:LEU:HD21	1:B:439:PHE:HB3	1.94	0.47
1:B:328:ASP:O	1:B:332:PHE:CB	2.63	0.47
1:B:339:MET:SD	1:B:352:ILE:HG21	2.54	0.47
1:B:355:VAL:HG22	1:B:625:TRP:HH2	1.79	0.47
1:B:686:ILE:CD1	1:B:689:HIS:HB3	2.45	0.47
1:B:800:GLN:NE2	3:E:115:LEU:HB2	2.28	0.47
2:C:252:ASN:N	2:C:252:ASN:OD1	2.45	0.47
2:C:297:ASN:HD22	2:C:314:GLN:NE2	2.12	0.47
2:D:14:SER:H	2:D:158:GLY:HA2	1.79	0.47
2:D:74:GLY:N	2:D:159:VAL:HB	2.29	0.47
3:H:128:VAL:HG12	3:H:138:ILE:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:PHE:CZ	1:A:497:MET:HE3	2.50	0.47
1:A:129:GLN:HG3	1:A:133:TYR:CD1	2.49	0.47
1:A:400:ARG:NH2	1:A:401:SER:HB3	2.30	0.47
1:A:447:ASN:HA	1:A:450:LEU:HD23	1.97	0.47
1:A:704:GLN:HA	1:A:707:CYS:SG	2.54	0.47
1:A:736:ILE:O	1:A:791:LYS:HG2	2.15	0.47
1:B:80:PRO:O	1:B:82:LYS:N	2.48	0.47
1:B:269:THR:H	1:B:443:LEU:CD2	2.26	0.47
1:B:272:LEU:HD22	1:B:440:ARG:NH1	2.29	0.47
1:B:437:ARG:NH2	1:B:610:THR:HG21	2.28	0.47
1:B:675:ARG:NH1	1:B:679:PRO:HG2	2.29	0.47
2:C:208:ILE:O	2:C:212:ILE:HG13	2.15	0.47
2:D:200:PHE:HZ	2:D:248:ILE:HG21	1.80	0.47
2:D:230:ALA:O	2:D:251:GLY:HA3	2.13	0.47
3:E:28:TYR:HA	3:E:31:CYS:SG	2.54	0.47
3:H:19:ASP:OD2	3:H:24:GLY:N	2.48	0.47
3:H:20:ARG:HG2	3:H:30:GLN:NE2	2.29	0.47
3:H:31:CYS:SG	3:H:64:LEU:HD22	2.54	0.47
1:A:108:TYR:CD2	1:A:696:LEU:HD12	2.50	0.47
1:A:113:ILE:HG13	1:A:130:LEU:HD13	1.96	0.47
1:A:154:TYR:HE1	1:A:189:LYS:O	1.98	0.47
1:A:158:ASP:HB2	1:A:193:TYR:CE1	2.50	0.47
1:A:232:GLU:HA	1:A:236:ASN:CG	2.35	0.47
1:A:294:ILE:HD12	1:A:310:PHE:HA	1.95	0.47
1:A:418:GLN:OE1	1:A:422:GLN:HG3	2.15	0.47
1:A:469:PHE:HB2	1:A:707:CYS:O	2.15	0.47
1:A:585:HIS:HB2	1:A:590:VAL:HG23	1.96	0.47
1:A:776:PHE:CD1	1:A:781:LEU:HA	2.50	0.47
1:A:807:LEU:HA	1:A:807:LEU:HD23	1.48	0.47
1:B:25:ALA:H	1:B:789:ASP:CB	2.27	0.47
1:B:33:LYS:N	1:B:49:ILE:H	2.12	0.47
1:B:66:LYS:HB3	1:B:68:VAL:HG23	1.97	0.47
1:B:142:LYS:NZ	1:B:197:VAL:O	2.37	0.47
1:B:156:ILE:CG2	1:B:682:VAL:HG23	2.45	0.47
1:B:269:THR:O	1:B:440:ARG:NH2	2.47	0.47
1:B:278:ILE:HD12	1:B:279:ARG:HD3	1.95	0.47
1:B:290:PHE:O	1:B:294:ILE:HG13	2.15	0.47
1:B:367:PHE:CE2	1:B:402:ILE:HB	2.49	0.47
1:B:368:LYS:HE2	1:B:378:MET:HA	1.96	0.47
1:B:501:GLU:HB3	1:B:505:TYR:OH	2.15	0.47
1:B:537:VAL:HG12	1:B:597:TRP:HZ3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:20:GLY:HA3	2:C:340:TRP:HE1	1.80	0.47
2:C:103:THR:H	2:C:129:VAL:HG11	1.79	0.47
2:C:133:TYR:CE1	2:C:135:ALA:HA	2.50	0.47
2:C:285:CYS:O	2:C:290:ARG:NH2	2.46	0.47
2:C:291:LYS:NZ	2:C:325:MET:HG2	2.30	0.47
2:C:294:TYR:CB	2:C:327:ILE:HG12	2.45	0.47
2:D:11:ASP:OD2	2:D:339:VAL:HB	2.15	0.47
2:D:70:PRO:HD3	2:D:81:ASP:HB3	1.97	0.47
2:D:79:TRP:O	2:D:83:GLU:HG3	2.15	0.47
2:D:107:GLU:HB3	2:D:134:VAL:HB	1.97	0.47
2:D:114:ALA:HB1	2:D:118:LYS:HE3	1.97	0.47
2:D:153:LEU:HD22	2:D:299:MET:SD	2.54	0.47
2:D:279:TYR:O	2:D:282:ILE:HB	2.15	0.47
2:D:282:ILE:HA	2:D:293:LEU:HB3	1.97	0.47
2:D:347:ALA:HA	2:D:352:PHE:HB2	1.97	0.47
3:E:49:LYS:O	3:E:53:ASN:ND2	2.48	0.47
3:H:108:ILE:HG21	3:H:127:LEU:HD23	1.96	0.47
3:H:125:GLU:O	3:H:128:VAL:N	2.48	0.47
1:A:233:ALA:O	1:A:289:ILE:N	2.34	0.47
1:A:246:SER:HB3	1:A:248:PHE:O	2.14	0.47
1:A:255:ASN:HB3	1:A:457:GLY:CA	2.42	0.47
1:A:376:ALA:HB3	1:A:403:LEU:O	2.14	0.47
1:A:398:PHE:HA	1:A:609:VAL:HG22	1.96	0.47
1:A:407:ILE:HD11	1:A:418:GLN:CD	2.35	0.47
1:A:473:GLU:HG2	1:A:474:ILE:H	1.78	0.47
1:A:480:LEU:HD11	1:A:528:ILE:HD12	1.95	0.47
1:A:500:LEU:O	1:A:503:GLU:HB3	2.14	0.47
1:A:505:TYR:CZ	1:A:514:PHE:HD2	2.33	0.47
1:A:521:LEU:HG	1:A:586:TYR:CD1	2.50	0.47
1:A:705:LEU:HA	1:A:710:VAL:HB	1.96	0.47
1:A:813:ALA:CB	1:A:815:ARG:HG2	2.41	0.47
1:B:257:ASP:HA	1:B:456:GLN:CG	2.45	0.47
1:B:315:PHE:O	1:B:316:LEU:HB2	2.14	0.47
1:B:796:ILE:HG21	3:E:111:VAL:HG23	1.95	0.47
2:C:86:TRP:CZ2	2:C:105:LEU:HD13	2.50	0.47
2:D:218:TYR:CD2	2:D:255:PHE:HB3	2.47	0.47
3:E:15:PHE:HA	3:E:34:VAL:HG11	1.96	0.47
3:E:55:LYS:NZ	3:E:58:GLU:HB2	2.29	0.47
3:E:120:THR:OG1	3:E:123:GLU:HB2	2.14	0.47
3:H:11:PHE:CD1	3:H:38:LEU:HD13	2.50	0.47
1:A:153:ILE:HD13	1:A:186:ASN:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:328:ASP:O	1:A:332:PHE:HB2	2.14	0.47
1:A:435:PHE:HD1	1:A:438:LEU:HD23	1.73	0.47
1:A:704:GLN:OE1	1:A:708:ASN:ND2	2.45	0.47
1:A:846:LYS:HD2	1:A:846:LYS:HA	1.74	0.47
1:B:50:LYS:N	1:B:59:VAL:HG12	2.27	0.47
1:B:145:LYS:H	1:B:148:GLU:CD	2.18	0.47
1:B:280:GLN:CG	1:B:286:THR:HG22	2.44	0.47
1:B:393:ILE:HG21	1:B:613:LEU:HD23	1.97	0.47
1:B:527:LEU:HA	1:B:566:HIS:CD2	2.49	0.47
1:B:527:LEU:HD22	1:B:568:LYS:C	2.35	0.47
1:B:683:ARG:HB3	1:B:708:ASN:HD22	1.80	0.47
1:B:696:LEU:HD11	1:B:701:VAL:HG21	1.97	0.47
2:C:53:TYR:HB3	2:C:57:GLU:C	2.34	0.47
2:D:67:LEU:HD12	2:D:207:GLU:CG	2.44	0.47
2:D:133:TYR:HA	2:D:357:ILE:HD12	1.97	0.47
2:D:219:VAL:HA	2:D:258:PRO:CB	2.45	0.47
2:D:314:GLN:NE2	2:D:318:THR:HG23	2.30	0.47
1:A:4:LYS:HB2	1:A:10:GLU:CG	2.45	0.47
1:A:105:ARG:CA	1:A:696:LEU:HD22	2.44	0.47
1:A:250:LYS:HG2	1:A:465:ASP:HB2	1.97	0.47
1:A:274:LYS:O	1:A:277:ALA:CB	2.52	0.47
1:A:355:VAL:HG22	1:A:625:TRP:CH2	2.50	0.47
1:A:484:TYR:CE1	1:A:525:ILE:HG23	2.50	0.47
1:A:527:LEU:CD2	1:A:583:ILE:HG23	2.41	0.47
1:A:552:ASP:HB3	1:A:594:ALA:HB1	1.96	0.47
1:B:58:THR:HG22	1:B:67:LYS:HG2	1.97	0.47
1:B:322:PRO:HA	1:B:328:ASP:OD1	2.16	0.47
1:B:536:GLY:HA2	1:B:566:HIS:CD2	2.49	0.47
1:B:681:PHE:HA	1:B:683:ARG:NH2	2.30	0.47
1:B:836:ARG:HD3	4:F:158:PHE:CZ	2.50	0.47
2:C:188:TYR:OH	2:C:256:ARG:NH2	2.40	0.47
2:C:192:ILE:HG21	2:C:256:ARG:NE	2.28	0.47
2:C:279:TYR:CD1	2:C:282:ILE:HB	2.50	0.47
2:D:134:VAL:CG2	2:D:370:VAL:HG13	2.45	0.47
3:E:41:ASN:HB2	3:E:82:GLN:HG2	1.95	0.47
4:G:30:ILE:HA	4:G:33:PHE:CD2	2.49	0.47
3:H:28:TYR:CE1	3:H:64:LEU:HB2	2.50	0.47
3:H:124:VAL:O	3:H:127:LEU:HB3	2.14	0.47
1:A:18:ASN:HB3	1:A:81:PRO:O	2.15	0.46
1:A:25:ALA:HB2	1:A:789:ASP:OD2	2.15	0.46
1:A:291:TYR:CE1	1:A:316:LEU:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:399:THR:HG22	1:A:403:LEU:HD21	1.95	0.46
1:A:480:LEU:HD11	1:A:528:ILE:HG23	1.97	0.46
1:A:560:ILE:HA	1:A:563:GLN:NE2	2.29	0.46
1:B:97:GLU:HA	1:B:100:VAL:HB	1.96	0.46
1:B:238:LYS:HE2	1:B:324:PRO:CG	2.44	0.46
1:B:291:TYR:CD1	1:B:316:LEU:HD13	2.50	0.46
1:B:297:ALA:HA	1:B:332:PHE:CE2	2.49	0.46
2:C:75:ILE:HA	2:C:111:ASN:HD21	1.80	0.46
2:C:140:LEU:HB3	2:C:339:VAL:O	2.15	0.46
2:C:314:GLN:OE1	2:C:327:ILE:HB	2.15	0.46
2:D:96:VAL:HB	2:D:101:HIS:NE2	2.29	0.46
2:D:97:ALA:O	2:D:101:HIS:HB2	2.15	0.46
2:D:139:VAL:O	2:D:142:LEU:HB3	2.15	0.46
2:D:140:LEU:HD22	2:D:342:GLY:C	2.35	0.46
2:D:151:ILE:N	2:D:296:ASN:O	2.48	0.46
2:D:274:ILE:HG23	2:D:275:HIS:N	2.30	0.46
3:E:28:TYR:CE2	3:E:58:GLU:HG2	2.50	0.46
3:E:109:ARG:HG2	3:E:124:VAL:HG23	1.96	0.46
3:E:109:ARG:O	3:E:113:VAL:HG22	2.15	0.46
3:E:133:ASP:O	3:E:135:ASN:N	2.48	0.46
1:A:15:VAL:HG22	1:A:112:LEU:HD13	1.97	0.46
1:A:198:ALA:HA	1:A:260:GLY:O	2.14	0.46
1:A:331:MET:O	1:A:335:THR:OG1	2.21	0.46
1:A:336:LEU:HD22	1:A:349:GLN:HB3	1.95	0.46
1:A:342:MET:HB3	1:A:445:ARG:C	2.36	0.46
1:A:355:VAL:HG13	1:A:625:TRP:CH2	2.50	0.46
1:B:51:GLU:HG3	1:B:67:LYS:HZ1	1.79	0.46
1:B:160:ALA:HB1	1:B:461:LEU:HD22	1.97	0.46
1:B:327:GLN:HE21	1:B:329:ASP:H	1.63	0.46
1:B:537:VAL:HG11	1:B:583:ILE:HD11	1.98	0.46
1:B:583:ILE:HB	1:B:592:TYR:CD2	2.50	0.46
1:B:736:ILE:HD11	1:B:791:LYS:HG3	1.97	0.46
2:C:103:THR:OG1	2:C:129:VAL:HG21	2.15	0.46
2:C:104:LEU:HD21	2:C:140:LEU:HD11	1.97	0.46
2:C:166:TYR:OH	2:C:284:LYS:HB3	2.15	0.46
2:C:287:ILE:O	2:C:290:ARG:HG2	2.15	0.46
2:C:291:LYS:HZ2	2:C:325:MET:HG2	1.80	0.46
2:C:314:GLN:HE21	2:C:329:ILE:N	2.13	0.46
2:D:100:GLU:H	2:D:130:PRO:HD3	1.80	0.46
2:D:151:ILE:CD1	2:D:282:ILE:HG13	2.45	0.46
2:D:212:ILE:HG21	2:D:250:ILE:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:357:ILE:HG12	2:D:370:VAL:HG22	1.97	0.46
3:E:50:VAL:HG21	3:E:76:ILE:CG1	2.46	0.46
3:E:93:ARG:NH1	3:E:101:GLY:H	2.13	0.46
3:H:25:LYS:HA	3:H:64:LEU:O	2.15	0.46
1:A:122:VAL:HG12	1:A:124:ILE:HG13	1.98	0.46
1:A:123:VAL:HG21	1:A:682:VAL:HG13	1.98	0.46
1:A:336:LEU:O	1:A:339:MET:HB2	2.14	0.46
1:A:411:ARG:NE	2:D:94:LEU:HA	2.30	0.46
1:A:443:LEU:O	1:A:446:VAL:HB	2.15	0.46
1:A:527:LEU:HD23	1:A:583:ILE:CG2	2.40	0.46
1:A:811:ALA:HB2	3:H:126:GLN:CD	2.35	0.46
1:B:135:GLU:HG2	1:B:196:VAL:HG21	1.97	0.46
1:B:237:ALA:HB1	1:B:285:ARG:O	2.14	0.46
1:B:547:PHE:HB3	1:B:549:LYS:O	2.15	0.46
1:B:566:HIS:CE1	1:B:569:PHE:CD2	3.04	0.46
2:C:217:CYS:SG	2:C:257:CYS:HB2	2.56	0.46
2:D:112:PRO:HD2	2:D:115:ASN:ND2	2.30	0.46
2:D:123:MET:O	2:D:128:ASN:N	2.49	0.46
2:D:192:ILE:HB	2:D:256:ARG:NH1	2.30	0.46
2:D:279:TYR:CZ	2:D:321:ALA:HA	2.49	0.46
2:D:358:THR:O	2:D:361:GLU:HB2	2.15	0.46
3:H:46:GLU:O	3:H:50:VAL:HG13	2.16	0.46
3:H:123:GLU:HA	3:H:126:GLN:HE21	1.79	0.46
1:A:53:LYS:NZ	1:A:56:GLU:O	2.42	0.46
1:A:95:LEU:C	1:A:718:ARG:HH21	2.18	0.46
1:A:315:PHE:O	1:A:316:LEU:HB2	2.15	0.46
1:A:355:VAL:HG22	1:A:625:TRP:HH2	1.81	0.46
1:A:361:GLN:NE2	1:A:386:LYS:HD3	2.31	0.46
1:A:409:VAL:HG13	2:D:24:ASP:HB3	1.96	0.46
1:A:434:LYS:HG2	1:A:625:TRP:NE1	2.30	0.46
1:A:773:LYS:HB2	1:A:775:PHE:CD1	2.50	0.46
1:B:77:LYS:O	1:B:79:ASN:ND2	2.49	0.46
1:B:280:GLN:NE2	1:B:286:THR:HG22	2.30	0.46
2:C:69:TYR:OH	2:C:207:GLU:OE2	2.22	0.46
2:D:10:CYS:SG	2:D:12:ASN:HB3	2.56	0.46
2:D:50:LYS:O	2:D:53:TYR:OH	2.21	0.46
2:D:124:PHE:CD2	2:D:359:LYS:HA	2.50	0.46
2:D:219:VAL:HG13	2:D:262:PHE:HE2	1.79	0.46
2:D:361:GLU:O	2:D:365:ALA:HB3	2.15	0.46
3:H:15:PHE:CG	3:H:26:ILE:HD13	2.49	0.46
1:A:7:SER:OG	1:A:136:LYS:NZ	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:ASN:N	1:A:84:SER:O	2.40	0.46
1:A:95:LEU:HB2	1:A:718:ARG:NE	2.31	0.46
1:A:136:LYS:HG3	1:A:137:ILE:H	1.81	0.46
1:A:263:VAL:HG21	1:A:456:GLN:N	2.30	0.46
1:A:344:PHE:CZ	1:A:442:ILE:HA	2.50	0.46
1:A:438:LEU:N	1:A:624:LEU:HD21	2.31	0.46
1:A:543:GLU:HA	1:A:546:TRP:CD2	2.50	0.46
1:A:675:ARG:C	1:A:677:THR:H	2.18	0.46
1:A:807:LEU:CD1	3:H:127:LEU:HB2	2.45	0.46
1:B:46:ALA:O	1:B:62:GLN:HB2	2.15	0.46
1:B:102:HIS:CE1	1:B:105:ARG:HH21	2.33	0.46
1:B:114:TYR:OH	1:B:189:LYS:HE3	2.16	0.46
1:B:799:PHE:CE2	3:E:108:ILE:HD11	2.49	0.46
2:C:107:GLU:OE1	2:C:116:ARG:HG2	2.16	0.46
2:C:144:ALA:HB2	2:C:342:GLY:N	2.31	0.46
2:C:145:SER:OG	2:C:332:PRO:HG3	2.15	0.46
2:C:278:THR:O	2:C:282:ILE:HG13	2.16	0.46
2:C:282:ILE:HG21	2:C:294:TYR:CE1	2.51	0.46
2:D:58:ALA:HB1	2:D:67:LEU:HD13	1.97	0.46
2:D:140:LEU:HA	2:D:140:LEU:HD23	1.55	0.46
3:E:3:PHE:N	3:E:74:GLN:HE22	2.14	0.46
3:H:7:GLN:O	3:H:11:PHE:N	2.45	0.46
1:A:117:SER:O	1:A:119:LEU:N	2.45	0.46
1:A:718:ARG:HA	1:A:778:THR:HB	1.97	0.46
1:A:750:LYS:HG3	1:A:769:ILE:HG23	1.98	0.46
1:B:87:GLU:HA	1:B:107:ARG:NH1	2.30	0.46
1:B:114:TYR:CZ	1:B:132:ILE:HD11	2.51	0.46
1:B:730:PHE:CD1	1:B:774:ILE:HD12	2.50	0.46
1:B:760:LEU:HD13	1:B:762:LEU:HD11	1.97	0.46
1:B:781:LEU:HD23	1:B:781:LEU:HA	1.59	0.46
1:B:792:ILE:HG23	3:E:91:GLY:O	2.15	0.46
2:C:12:ASN:HB2	2:C:71:ILE:CD1	2.46	0.46
2:C:120:THR:HG21	2:C:369:ILE:CG2	2.45	0.46
2:C:257:CYS:O	2:C:260:THR:OG1	2.17	0.46
2:D:30:VAL:HG21	2:D:337:TYR:CZ	2.51	0.46
2:D:138:ALA:HB3	2:D:163:VAL:HG23	1.98	0.46
2:D:213:LYS:HE2	2:D:306:TYR:OH	2.16	0.46
3:E:133:ASP:OD1	3:E:138:ILE:HA	2.16	0.46
1:A:159:THR:O	1:A:163:SER:OG	2.25	0.46
1:A:219:GLU:HA	1:A:222:LYS:HD2	1.97	0.46
1:A:263:VAL:HG21	1:A:456:GLN:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:298:SER:OG	1:A:301:MET:HG3	2.16	0.46
1:A:362:LEU:HA	1:A:365:ILE:CD1	2.46	0.46
1:A:403:LEU:O	1:A:423:ALA:HB2	2.15	0.46
1:A:508:GLU:CG	1:A:770:GLY:HA3	2.42	0.46
1:A:592:TYR:HB3	1:A:597:TRP:CZ2	2.51	0.46
1:A:737:LEU:HD22	1:A:788:ARG:N	2.31	0.46
1:B:127:TYR:CD1	1:B:691:LYS:HA	2.50	0.46
1:B:313:TYR:HE1	1:B:361:GLN:CD	2.19	0.46
1:B:342:MET:O	1:B:445:ARG:HG3	2.16	0.46
1:B:517:PHE:CD2	1:B:716:ILE:HG23	2.50	0.46
1:B:527:LEU:HD13	1:B:569:PHE:HB2	1.98	0.46
1:B:528:ILE:HD11	1:B:583:ILE:HG21	1.98	0.46
1:B:657:ARG:HH21	1:B:662:LEU:HA	1.79	0.46
1:B:659:VAL:HA	1:B:662:LEU:HD12	1.98	0.46
1:B:666:GLN:HA	1:B:669:LYS:HE3	1.96	0.46
1:B:808:ALA:HA	1:B:815:ARG:HH22	1.79	0.46
2:C:16:LEU:HD22	2:C:30:VAL:HG12	1.97	0.46
2:C:105:LEU:HD12	2:C:119:MET:CB	2.40	0.46
2:C:142:LEU:HB2	2:C:152:VAL:HG13	1.98	0.46
2:C:160:THR:HG22	2:C:176:MET:HE1	1.98	0.46
2:C:286:ASP:H	2:C:289:ILE:HB	1.81	0.46
2:D:160:THR:HB	2:D:178:LEU:HB3	1.97	0.46
2:D:368:SER:O	2:D:372:ARG:HG3	2.16	0.46
3:E:40:GLN:HB3	3:E:42:PRO:HD3	1.97	0.46
3:H:108:ILE:HG23	3:H:112:LEU:HD23	1.97	0.46
1:A:61:LEU:HD11	1:A:70:LEU:HD13	1.97	0.46
1:A:153:ILE:H	1:A:153:ILE:HG13	1.39	0.46
1:A:236:ASN:OD1	1:A:248:PHE:HE1	1.99	0.46
1:A:302:ARG:O	1:A:306:LEU:N	2.49	0.46
1:A:471:ILE:HG13	1:A:483:ASN:HD21	1.79	0.46
1:A:531:PRO:O	1:A:535:PRO:HG3	2.16	0.46
1:A:720:GLY:O	1:A:722:PRO:HD3	2.15	0.46
1:B:33:LYS:HB3	1:B:77:LYS:HG3	1.97	0.46
1:B:249:GLY:HA2	1:B:466:ILE:HA	1.97	0.46
1:B:358:SER:HB3	1:B:390:LEU:HB2	1.97	0.46
1:B:685:ILE:HG12	1:B:705:LEU:CD2	2.46	0.46
1:B:804:ARG:HH21	3:E:119:MET:HG2	1.81	0.46
1:B:814:LYS:O	1:B:817:GLN:HG3	2.15	0.46
2:C:18:LYS:HD2	2:C:30:VAL:HG13	1.97	0.46
2:C:189:LEU:HD11	2:C:250:ILE:HG23	1.97	0.46
2:C:218:TYR:CD2	2:C:220:ALA:HA	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:305:MET:HG3	2:D:336:LYS:N	2.31	0.46
2:D:346:LEU:HD23	2:D:349:LEU:HD12	1.98	0.46
2:D:357:ILE:HG23	2:D:369:ILE:HG23	1.97	0.46
3:E:55:LYS:HG3	3:E:57:ASP:HB3	1.96	0.46
3:E:89:VAL:O	3:E:93:ARG:HG2	2.15	0.46
1:A:35:VAL:HG22	1:A:75:ILE:HG23	1.97	0.46
1:A:116:TYR:CE1	1:A:151:PRO:HA	2.51	0.46
1:A:283:ASP:HB3	1:A:473:GLU:HG3	1.97	0.46
1:A:409:VAL:HG13	2:D:24:ASP:CB	2.45	0.46
1:A:466:ILE:HG12	1:A:467:ALA:N	2.30	0.46
1:A:734:TYR:CD1	1:A:760:LEU:HD11	2.51	0.46
1:A:783:HIS:O	1:A:787:GLU:HG3	2.16	0.46
1:B:51:GLU:HB2	1:B:58:THR:HB	1.97	0.46
1:B:102:HIS:CD2	1:B:105:ARG:HH21	2.34	0.46
1:B:194:LEU:HD12	1:B:254:ILE:HD12	1.98	0.46
1:B:240:VAL:HG21	1:B:473:GLU:OE1	2.16	0.46
1:B:803:CYS:HB3	3:E:119:MET:HE1	1.97	0.46
2:C:123:MET:O	2:C:128:ASN:N	2.49	0.46
2:D:20:GLY:C	2:D:94:LEU:HD21	2.37	0.46
2:D:27:PRO:HA	2:D:340:TRP:CZ2	2.51	0.46
2:D:332:PRO:HD2	2:D:335:ARG:HE	1.81	0.46
1:A:11:LYS:CE	1:A:16:ASP:HB2	2.46	0.46
1:A:28:ASP:HB2	1:A:81:PRO:HD2	1.97	0.46
1:A:50:LYS:N	1:A:58:THR:O	2.38	0.46
1:A:124:ILE:HG21	1:A:696:LEU:CD1	2.46	0.46
1:A:451:ASP:OD2	1:A:455:ARG:NE	2.46	0.46
1:A:524:CYS:SG	1:A:568:LYS:HB3	2.56	0.46
1:A:551:THR:HG1	1:A:554:SER:H	1.55	0.46
1:B:87:GLU:HB3	1:B:91:GLU:OE1	2.16	0.46
1:B:351:SER:O	1:B:355:VAL:HG23	2.16	0.46
2:C:312:ARG:HH11	2:C:315:LYS:NZ	2.14	0.46
2:D:3:ASP:OD2	2:D:4:GLU:N	2.45	0.46
2:D:86:TRP:CH2	2:D:119:MET:HG2	2.48	0.46
2:D:218:TYR:O	2:D:258:PRO:HG2	2.15	0.46
2:D:257:CYS:O	2:D:260:THR:N	2.48	0.46
3:H:85:PHE:HA	3:H:88:TYR:CD2	2.50	0.46
1:A:116:TYR:HD1	1:A:120:PHE:O	1.99	0.45
1:A:190:VAL:CG1	1:A:463:ILE:HG12	2.44	0.45
1:A:247:ARG:HB3	1:A:482:ILE:HD11	1.99	0.45
1:A:269:THR:C	1:A:440:ARG:HH12	2.19	0.45
1:A:477:PHE:HD1	1:A:480:LEU:HD23	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:493:PHE:O	1:A:497:MET:HG3	2.16	0.45
1:A:497:MET:N	1:A:681:PHE:HZ	2.14	0.45
1:A:742:ILE:HD12	1:A:746:PHE:CD1	2.51	0.45
1:A:819:LEU:HA	1:A:822:MET:HG2	1.98	0.45
1:B:141:TYR:O	1:B:144:LYS:N	2.43	0.45
1:B:161:TYR:OH	1:B:260:GLY:O	2.21	0.45
1:B:290:PHE:HA	1:B:356:VAL:CG1	2.46	0.45
1:B:292:TYR:HE1	1:B:331:MET:HE3	1.79	0.45
1:B:309:GLY:H	1:B:312:ASN:HB2	1.80	0.45
1:B:314:THR:H	1:B:364:ASN:HD21	1.63	0.45
1:B:441:TRP:HB3	1:B:624:LEU:HD23	1.97	0.45
1:B:618:ASP:O	1:B:621:VAL:HB	2.16	0.45
2:C:20:GLY:HA3	2:C:340:TRP:NE1	2.32	0.45
2:C:22:ALA:HB2	2:C:347:ALA:CB	2.45	0.45
2:D:20:GLY:HA2	2:D:28:ARG:HB2	1.98	0.45
2:D:76:ILE:HD11	2:D:119:MET:CG	2.46	0.45
2:D:145:SER:HB2	2:D:147:ARG:CD	2.45	0.45
2:D:212:ILE:HG12	2:D:216:LEU:HD13	1.97	0.45
3:E:113:VAL:HG23	3:E:114:THR:HG23	1.97	0.45
1:A:79:ASN:N	1:A:99:SER:HB3	2.31	0.45
1:A:273:GLU:N	1:A:287:PHE:HZ	2.13	0.45
1:A:391:MET:HB3	1:A:621:VAL:HG11	1.98	0.45
1:A:528:ILE:HD11	1:A:583:ILE:HG21	1.98	0.45
1:A:547:PHE:HB2	1:A:549:LYS:O	2.17	0.45
1:A:624:LEU:HB3	1:A:625:TRP:CE3	2.50	0.45
1:A:727:PHE:CE1	1:A:774:ILE:HG13	2.52	0.45
1:A:840:TRP:HA	1:A:840:TRP:CE3	2.51	0.45
1:B:42:HIS:HA	1:B:699:HIS:N	2.31	0.45
1:B:56:GLU:HA	1:B:69:THR:HG23	1.98	0.45
1:B:569:PHE:CE1	1:B:581:PHE:HB2	2.50	0.45
1:B:572:SER:O	1:B:577:ASP:HB3	2.16	0.45
1:B:804:ARG:HG3	3:E:119:MET:HE3	1.98	0.45
2:C:87:HIS:ND1	2:C:127:PHE:HE1	2.13	0.45
2:C:176:MET:SD	2:C:277:THR:OG1	2.56	0.45
2:C:189:LEU:HD13	2:C:253:GLU:O	2.16	0.45
2:C:236:LEU:O	2:C:254:ARG:HD3	2.16	0.45
2:D:111:ASN:HB3	2:D:115:ASN:HD22	1.80	0.45
2:D:117:GLU:O	2:D:120:THR:HG22	2.16	0.45
2:D:124:PHE:HE2	2:D:357:ILE:HG22	1.81	0.45
2:D:151:ILE:HG12	2:D:162:ASN:OD1	2.16	0.45
2:D:189:LEU:HG	2:D:209:VAL:HG13	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:192:ILE:HD12	2:D:253:GLU:HA	1.98	0.45
4:F:145:ALA:O	4:F:149:LYS:NZ	2.50	0.45
4:G:157:GLU:O	4:G:161:ILE:HG12	2.16	0.45
3:H:28:TYR:CB	3:H:51:LEU:HD13	2.46	0.45
1:A:50:LYS:CG	1:A:60:GLU:HB2	2.46	0.45
1:A:82:LYS:HB2	1:A:82:LYS:HE3	1.75	0.45
1:A:105:ARG:O	1:A:109:PHE:HB3	2.15	0.45
1:A:153:ILE:HG12	1:A:682:VAL:CG2	2.47	0.45
1:A:293:LEU:CD1	1:A:297:ALA:HB2	2.46	0.45
1:A:441:TRP:HZ3	1:A:626:LYS:HD3	1.82	0.45
1:A:527:LEU:HD21	1:A:569:PHE:CA	2.47	0.45
1:B:95:LEU:H	1:B:778:THR:HG21	1.82	0.45
1:B:194:LEU:HB2	1:B:262:ILE:HD11	1.99	0.45
1:B:272:LEU:HB2	1:B:440:ARG:NH2	2.32	0.45
1:B:704:GLN:NE2	1:B:707:CYS:SG	2.89	0.45
2:C:44:MET:HB2	2:C:47:MET:HG2	1.97	0.45
2:C:98:PRO:O	2:C:129:VAL:HA	2.16	0.45
2:C:124:PHE:CE1	2:C:129:VAL:HB	2.52	0.45
2:C:237:GLU:HB2	2:C:251:GLY:HA2	1.98	0.45
3:E:72:MET:O	3:E:72:MET:HG2	2.17	0.45
3:E:113:VAL:O	3:E:118:LYS:HD2	2.16	0.45
3:H:15:PHE:CZ	3:H:69:PHE:HB2	2.52	0.45
3:H:92:LEU:HB3	3:H:140:TYR:HB2	1.97	0.45
3:H:112:LEU:HB3	3:H:124:VAL:CG1	2.47	0.45
1:A:89:MET:SD	1:A:103:ASN:ND2	2.77	0.45
1:A:123:VAL:HG11	1:A:186:ASN:HD21	1.81	0.45
1:A:179:SER:O	1:A:245:SER:HA	2.17	0.45
1:A:257:ASP:N	1:A:263:VAL:HG22	2.31	0.45
1:A:351:SER:HA	1:A:354:ARG:HB2	1.97	0.45
1:A:488:LYS:CB	1:A:667:LEU:HD11	2.30	0.45
1:A:533:ASN:ND2	1:A:565:ASN:O	2.48	0.45
1:A:806:TYR:HD1	1:A:809:ARG:HH21	1.64	0.45
1:B:29:TRP:CG	1:B:30:SER:N	2.85	0.45
1:B:33:LYS:HB3	1:B:77:LYS:HA	1.99	0.45
1:B:181:ALA:HB1	1:B:686:ILE:HG13	1.99	0.45
1:B:274:LYS:HD3	1:B:659:VAL:HG13	1.98	0.45
1:B:471:ILE:HD12	1:B:703:GLU:HG2	1.98	0.45
1:B:488:LYS:NZ	1:B:525:ILE:HG21	2.32	0.45
1:B:530:ARG:HH22	1:B:566:HIS:CG	2.34	0.45
2:C:34:ILE:HD11	2:C:183:ARG:HH12	1.82	0.45
2:C:120:THR:HA	2:C:132:MET:HE1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:317:ILE:O	2:C:320:LEU:N	2.50	0.45
2:D:124:PHE:HZ	2:D:357:ILE:O	2.00	0.45
3:E:23:ASP:OD1	3:E:23:ASP:N	2.49	0.45
1:A:195:ALA:HA	1:A:262:ILE:HD12	1.97	0.45
1:A:563:GLN:HA	1:A:566:HIS:CG	2.52	0.45
1:A:563:GLN:HE22	1:A:571:LYS:HD3	1.81	0.45
1:A:838:TRP:HB2	4:G:143:ARG:NH1	2.31	0.45
1:B:119:LEU:HD12	1:B:497:MET:HE1	1.98	0.45
1:B:124:ILE:HG21	1:B:696:LEU:HD12	1.98	0.45
1:B:158:ASP:OD2	1:B:162:ARG:NE	2.49	0.45
1:B:362:LEU:HD22	1:B:430:LEU:HB3	1.98	0.45
1:B:400:ARG:O	1:B:403:LEU:HB2	2.16	0.45
1:B:732:GLN:HA	1:B:744:LYS:HD2	1.97	0.45
1:B:781:LEU:O	1:B:784:LEU:HB2	2.15	0.45
1:B:808:ALA:HB2	3:E:36:ARG:HH11	1.81	0.45
2:C:285:CYS:HB3	2:C:289:ILE:CG2	2.46	0.45
2:D:217:CYS:SG	2:D:258:PRO:HD3	2.57	0.45
2:D:223:PHE:HE1	2:D:256:ARG:HG3	1.82	0.45
2:D:312:ARG:O	2:D:316:GLU:HG2	2.16	0.45
1:A:9:ASP:HA	1:A:131:PRO:HG2	1.98	0.45
1:A:13:LEU:HD21	1:A:151:PRO:O	2.17	0.45
1:A:48:SER:HB2	1:A:60:GLU:HB3	1.99	0.45
1:A:133:TYR:HD2	1:A:152:HIS:NE2	2.12	0.45
1:A:164:MET:O	1:A:168:ARG:NH1	2.49	0.45
1:A:169:GLU:O	1:A:171:GLN:HG2	2.17	0.45
1:A:221:GLU:HG2	1:A:254:ILE:CD1	2.47	0.45
1:A:276:ARG:O	1:A:286:THR:HB	2.17	0.45
1:A:440:ARG:HD3	1:A:440:ARG:HA	1.70	0.45
1:A:477:PHE:HZ	1:A:660:GLY:HA2	1.82	0.45
1:A:535:PRO:HB2	1:A:540:LEU:HG	1.97	0.45
1:B:45:GLU:HA	1:B:63:GLU:CB	2.46	0.45
1:B:93:THR:O	1:B:781:LEU:HB2	2.16	0.45
1:B:113:ILE:HG23	1:B:124:ILE:O	2.17	0.45
1:B:163:SER:OG	1:B:171:GLN:NE2	2.49	0.45
1:B:296:GLY:CA	1:B:329:ASP:HA	2.47	0.45
1:B:706:ARG:NH1	1:B:712:GLU:OE2	2.49	0.45
1:B:850:LEU:HD13	4:F:53:LEU:HD23	1.97	0.45
2:C:19:ALA:O	2:C:340:TRP:NE1	2.49	0.45
2:D:83:GLU:HG2	2:D:122:ILE:HG23	1.98	0.45
2:D:112:PRO:HD2	2:D:115:ASN:HD21	1.81	0.45
2:D:262:PHE:CE2	2:D:312:ARG:HG2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:55:LYS:HG2	3:E:58:GLU:H	1.81	0.45
3:E:93:ARG:NE	3:E:93:ARG:HA	2.32	0.45
1:A:57:VAL:CG1	1:A:59:VAL:HG13	2.46	0.45
1:A:361:GLN:HA	1:A:364:ASN:ND2	2.31	0.45
1:A:546:TRP:CE3	2:D:349:LEU:HD23	2.52	0.45
1:A:781:LEU:O	1:A:785:GLU:HG3	2.16	0.45
1:A:806:TYR:O	1:A:809:ARG:HB3	2.17	0.45
1:B:116:TYR:CD1	1:B:151:PRO:HB3	2.52	0.45
1:B:247:ARG:HG3	1:B:276:ARG:NH1	2.32	0.45
1:B:282:LYS:HD3	1:B:474:ILE:HB	1.99	0.45
1:B:285:ARG:HG2	1:B:320:HIS:O	2.17	0.45
1:B:342:MET:HG3	1:B:446:VAL:HA	1.99	0.45
1:B:424:ASP:O	1:B:428:GLU:HG3	2.17	0.45
1:B:429:ALA:HA	1:B:432:LYS:HE3	1.98	0.45
1:B:440:ARG:HD3	1:B:440:ARG:HA	1.72	0.45
1:B:498:PHE:CG	1:B:516:ASP:HA	2.52	0.45
1:B:511:GLU:HB2	1:B:512:TRP:CE2	2.52	0.45
1:B:538:LEU:O	1:B:541:LEU:HB3	2.17	0.45
1:B:731:ARG:HG3	1:B:753:CYS:SG	2.57	0.45
1:B:757:ILE:HD13	1:B:767:TYR:CG	2.51	0.45
1:B:757:ILE:HD12	1:B:769:ILE:HD11	1.99	0.45
2:C:20:GLY:HA3	2:C:340:TRP:CE2	2.50	0.45
2:C:61:LYS:O	2:C:64:ILE:N	2.42	0.45
2:C:180:LEU:HD21	2:C:264:PRO:HG3	1.98	0.45
2:C:314:GLN:OE1	2:C:318:THR:HG23	2.16	0.45
2:C:368:SER:HB2	2:C:372:ARG:CZ	2.47	0.45
2:D:43:VAL:HA	2:D:47:MET:SD	2.57	0.45
2:D:59:GLN:OE1	2:D:207:GLU:HB3	2.16	0.45
2:D:190:MET:N	2:D:209:VAL:HG11	2.31	0.45
2:D:314:GLN:OE1	2:D:329:ILE:HG13	2.17	0.45
1:A:120:PHE:HE2	1:A:714:ILE:N	2.15	0.45
1:A:188:LYS:CG	1:A:189:LYS:HZ2	2.30	0.45
1:A:237:ALA:HB3	1:A:276:ARG:NH1	2.31	0.45
1:A:309:GLY:H	1:A:312:ASN:HD22	1.65	0.45
1:A:472:PHE:HE2	1:A:479:GLN:NE2	2.15	0.45
1:B:291:TYR:HB3	1:B:328:ASP:OD1	2.17	0.45
1:B:510:ILE:HA	1:B:768:ARG:CG	2.47	0.45
2:C:98:PRO:O	2:C:129:VAL:HG22	2.16	0.45
2:C:237:GLU:CG	2:C:251:GLY:HA2	2.46	0.45
2:C:279:TYR:HD1	2:C:282:ILE:HB	1.82	0.45
2:D:8:LEU:HB2	2:D:103:THR:HG22	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:32:PRO:HD2	2:D:56:ASP:N	2.31	0.45
2:D:71:ILE:HG12	2:D:76:ILE:HG12	1.99	0.45
2:D:113:LYS:HA	2:D:371:HIS:HE1	1.78	0.45
2:D:369:ILE:O	2:D:373:LYS:N	2.50	0.45
3:E:70:LEU:HA	3:E:73:MET:HG3	1.98	0.45
3:E:79:ASN:C	3:E:81:ASP:H	2.20	0.45
3:E:131:HIS:CB	3:E:143:LEU:HA	2.45	0.45
4:F:40:ILE:HG22	4:F:52:ASP:HB3	1.99	0.45
1:A:384:ALA:HB1	1:A:398:PHE:CD2	2.52	0.45
1:A:484:TYR:CE2	1:A:664:LYS:HG2	2.52	0.45
1:A:537:VAL:HG13	1:A:559:LEU:HD21	1.99	0.45
1:A:543:GLU:HA	1:A:546:TRP:CE2	2.52	0.45
1:A:583:ILE:HB	1:A:592:TYR:CE2	2.52	0.45
1:A:583:ILE:HB	1:A:592:TYR:HD2	1.79	0.45
1:A:614:ASN:HB2	1:A:625:TRP:O	2.17	0.45
1:B:3:GLN:H	1:B:150:PRO:HG2	1.81	0.45
1:B:224:LEU:HA	1:B:450:LEU:HD11	1.99	0.45
1:B:302:ARG:HG2	1:B:307:LEU:CD1	2.46	0.45
1:B:496:THR:HB	1:B:681:PHE:CZ	2.52	0.45
1:B:524:CYS:HA	1:B:568:LYS:HB2	1.99	0.45
1:B:535:PRO:HG2	1:B:543:GLU:OE1	2.17	0.45
1:B:836:ARG:HH11	4:F:158:PHE:HZ	1.65	0.45
2:C:39:ARG:HG2	2:C:66:THR:HG23	1.99	0.45
2:C:115:ASN:O	2:C:119:MET:HG3	2.17	0.45
2:D:73:HIS:HE1	2:D:178:LEU:O	2.00	0.45
2:D:185:LEU:HB2	2:D:213:LYS:HE3	1.99	0.45
2:D:274:ILE:HG23	2:D:275:HIS:H	1.81	0.45
2:D:328:LYS:HG2	2:D:329:ILE:N	2.32	0.45
4:F:123:ARG:O	4:F:127:THR:HG23	2.16	0.45
1:A:145:LYS:N	1:A:162:ARG:HH12	2.14	0.45
1:A:348:GLU:HG3	1:A:620:PHE:CD1	2.52	0.45
1:A:371:ARG:O	1:A:371:ARG:NE	2.50	0.45
1:A:402:ILE:HG21	1:A:427:ILE:HG12	1.98	0.45
1:A:416:LYS:O	1:A:418:GLN:N	2.50	0.45
1:A:549:LYS:NZ	2:D:145:SER:HB3	2.32	0.45
1:A:702:LEU:HD11	1:A:711:LEU:HD22	1.98	0.45
1:B:90:ALA:HA	1:B:95:LEU:HD11	1.99	0.45
1:B:95:LEU:HD12	1:B:722:PRO:HB2	1.98	0.45
1:B:116:TYR:CE1	1:B:151:PRO:HA	2.51	0.45
1:B:367:PHE:HE2	1:B:399:THR:O	2.00	0.45
1:B:385:GLN:HA	1:B:395:VAL:HB	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:530:ARG:HH22	1:B:566:HIS:CD2	2.34	0.45
1:B:620:PHE:HA	1:B:623:ASP:OD2	2.17	0.45
1:B:793:THR:HG22	1:B:797:ILE:HD11	1.99	0.45
2:C:31:PHE:CZ	2:C:88:HIS:HB3	2.52	0.45
2:C:70:PRO:HB2	2:C:82:MET:CG	2.46	0.45
2:C:135:ALA:CB	2:C:140:LEU:HD11	2.47	0.45
2:C:252:ASN:O	2:C:256:ARG:HG3	2.17	0.45
2:C:346:LEU:O	2:C:351:THR:OG1	2.33	0.45
2:D:66:THR:C	2:D:67:LEU:HD23	2.38	0.45
2:D:133:TYR:CZ	2:D:355:MET:HB3	2.52	0.45
3:E:50:VAL:HB	3:E:75:THR:OG1	2.17	0.45
3:E:109:ARG:CZ	3:E:125:GLU:HG2	2.47	0.45
3:H:33:ASP:HA	3:H:36:ARG:CD	2.36	0.45
1:A:193:TYR:CD2	1:A:193:TYR:C	2.90	0.44
1:A:313:TYR:HE1	1:A:361:GLN:CD	2.21	0.44
1:A:342:MET:C	1:A:445:ARG:HG3	2.38	0.44
1:A:470:GLU:HB3	1:A:472:PHE:HZ	1.79	0.44
1:B:2:SER:O	1:B:13:LEU:HB3	2.18	0.44
1:B:23:PRO:HG3	1:B:733:ARG:HA	1.99	0.44
1:B:727:PHE:H	1:B:773:LYS:HA	1.82	0.44
1:B:730:PHE:CZ	1:B:757:ILE:HG13	2.52	0.44
1:B:743:PRO:O	1:B:746:PHE:HB2	2.18	0.44
2:C:38:PRO:HD2	2:C:41:GLN:OE1	2.17	0.44
2:C:193:LEU:O	2:C:198:TYR:N	2.46	0.44
2:C:205:GLU:HA	2:C:208:ILE:HD12	2.00	0.44
2:C:224:GLU:HA	2:C:227:MET:HB3	1.98	0.44
2:C:282:ILE:HG23	2:C:293:LEU:HD12	1.99	0.44
2:D:198:TYR:CD1	2:D:248:ILE:HA	2.51	0.44
1:A:61:LEU:HD23	1:A:61:LEU:HA	1.82	0.44
1:A:291:TYR:CD2	1:A:316:LEU:HD22	2.52	0.44
1:A:293:LEU:CD1	1:A:353:LEU:HB3	2.47	0.44
1:A:480:LEU:HD13	1:A:597:TRP:CH2	2.53	0.44
1:A:540:LEU:HD11	1:A:566:HIS:CE1	2.52	0.44
1:A:603:ASP:HB3	1:A:658:THR:HA	2.00	0.44
1:B:79:ASN:ND2	1:B:94:CYS:HB2	2.25	0.44
1:B:129:GLN:HE22	1:B:188:LYS:HD3	1.82	0.44
1:B:156:ILE:HG22	1:B:173:ILE:HD13	1.99	0.44
1:B:176:THR:HG22	1:B:683:ARG:HH11	1.83	0.44
1:B:275:SER:OG	1:B:478:GLU:HB3	2.17	0.44
1:B:280:GLN:HE21	1:B:286:THR:HG22	1.81	0.44
1:B:314:THR:OG1	1:B:364:ASN:ND2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:505:TYR:O	1:B:510:ILE:HB	2.17	0.44
1:B:538:LEU:HD23	1:B:664:LYS:HG3	1.99	0.44
1:B:621:VAL:HG13	1:B:625:TRP:HZ3	1.77	0.44
1:B:720:GLY:O	1:B:777:ARG:NH1	2.50	0.44
1:B:733:ARG:HB3	1:B:788:ARG:CZ	2.47	0.44
1:B:811:ALA:O	1:B:814:LYS:HG2	2.18	0.44
2:C:116:ARG:O	2:C:370:VAL:HG21	2.17	0.44
2:C:262:PHE:CZ	2:C:309:ILE:HD12	2.52	0.44
2:D:138:ALA:HB1	2:D:152:VAL:O	2.17	0.44
2:D:225:ASN:ND2	2:D:225:ASN:H	2.15	0.44
3:E:18:PHE:CE2	3:E:30:GLN:HA	2.52	0.44
3:E:44:ASN:O	3:E:48:MET:HG2	2.16	0.44
3:E:71:PRO:O	3:E:75:THR:HG23	2.17	0.44
3:H:61:LEU:HD12	3:H:62:LYS:N	2.33	0.44
3:H:102:THR:HG22	3:H:139:ASN:HA	1.98	0.44
1:A:121:CYS:HB3	1:A:682:VAL:HA	1.99	0.44
1:A:135:GLU:O	1:A:138:ILE:HB	2.16	0.44
1:A:238:LYS:HE3	1:A:238:LYS:HB3	1.87	0.44
1:A:294:ILE:CD1	1:A:313:TYR:HD2	2.27	0.44
1:A:469:PHE:HB2	1:A:707:CYS:CA	2.48	0.44
1:A:733:ARG:HB3	1:A:788:ARG:HD3	1.99	0.44
1:B:554:SER:O	1:B:558:LYS:HG2	2.17	0.44
1:B:833:LEU:O	1:B:837:ASN:ND2	2.51	0.44
2:C:21:PHE:O	2:C:344:SER:HB3	2.17	0.44
2:C:86:TRP:NE1	2:C:105:LEU:HD22	2.33	0.44
2:C:182:GLY:HA2	2:C:185:LEU:HD22	1.98	0.44
2:C:358:THR:OG1	2:C:361:GLU:OE1	2.35	0.44
2:D:4:GLU:O	2:D:6:THR:N	2.51	0.44
2:D:104:LEU:HD22	2:D:343:GLY:HA2	1.98	0.44
2:D:222:ASP:HB2	2:D:225:ASN:HD22	1.82	0.44
2:D:279:TYR:CE1	2:D:321:ALA:HA	2.52	0.44
3:E:51:LEU:HD21	3:E:72:MET:SD	2.58	0.44
1:A:156:ILE:HG12	1:A:681:PHE:O	2.18	0.44
1:A:367:PHE:O	1:A:369:LYS:HE3	2.16	0.44
1:A:576:LYS:HB3	1:A:576:LYS:HE2	1.65	0.44
1:A:766:LEU:HD12	1:A:780:VAL:HG23	1.99	0.44
1:B:44:PHE:C	1:B:102:HIS:HE2	2.21	0.44
1:B:130:LEU:O	1:B:132:ILE:N	2.50	0.44
1:B:133:TYR:HB3	1:B:189:LYS:NZ	2.33	0.44
1:B:163:SER:OG	1:B:169:GLU:HB3	2.17	0.44
1:B:290:PHE:HA	1:B:356:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:335:THR:HG22	1:B:339:MET:CE	2.47	0.44
1:B:397:ASP:O	1:B:401:SER:OG	2.30	0.44
1:B:400:ARG:NH1	1:B:400:ARG:HB3	2.33	0.44
1:B:796:ILE:HD13	3:E:111:VAL:HG21	2.00	0.44
1:B:812:PHE:O	1:B:816:GLN:HG2	2.17	0.44
1:B:851:LEU:HB2	4:F:164:HIS:CD2	2.52	0.44
2:C:17:VAL:C	2:C:18:LYS:HD3	2.38	0.44
2:C:156:GLY:O	2:C:181:ALA:HB1	2.18	0.44
2:C:208:ILE:HD11	2:C:242:LEU:HD22	1.98	0.44
2:C:253:GLU:HA	2:C:256:ARG:HB2	1.98	0.44
2:D:227:MET:HG3	2:D:252:ASN:HB3	1.98	0.44
3:E:31:CYS:O	3:E:34:VAL:HB	2.18	0.44
3:H:27:LEU:HB2	3:H:30:GLN:HB2	1.99	0.44
3:H:55:LYS:O	3:H:59:MET:HG3	2.17	0.44
3:H:88:TYR:HE2	3:H:148:LEU:HD13	1.82	0.44
1:A:23:PRO:O	1:A:789:ASP:HB3	2.18	0.44
1:A:162:ARG:HE	1:A:162:ARG:HB2	1.53	0.44
1:A:233:ALA:CA	1:A:288:HIS:HB2	2.35	0.44
1:A:265:ALA:O	1:A:450:LEU:HG	2.17	0.44
1:A:365:ILE:HD13	1:A:398:PHE:CE2	2.52	0.44
1:A:475:ASN:HD22	1:A:592:TYR:HE1	1.65	0.44
1:A:527:LEU:HA	1:A:530:ARG:NH2	2.32	0.44
1:A:584:LEU:HD23	1:A:589:LYS:HB2	2.00	0.44
1:B:15:VAL:HG12	1:B:17:LYS:HG2	1.99	0.44
1:B:165:LEU:HB2	1:B:260:GLY:CA	2.45	0.44
1:B:502:GLN:HE22	1:B:513:ASN:CB	2.30	0.44
1:B:583:ILE:O	1:B:585:HIS:N	2.49	0.44
1:B:802:GLN:CD	3:E:148:LEU:HA	2.37	0.44
1:B:806:TYR:CD2	3:E:147:VAL:HG22	2.52	0.44
2:C:1:ASP:N	2:C:6:THR:HB	2.33	0.44
2:C:8:LEU:HD11	2:C:96:VAL:HG23	1.98	0.44
2:C:32:PRO:HB3	2:C:34:ILE:HD12	1.99	0.44
2:C:192:ILE:HG12	2:C:192:ILE:H	1.56	0.44
2:D:122:ILE:HG22	2:D:127:PHE:CD2	2.53	0.44
2:D:239:SER:HA	2:D:248:ILE:O	2.18	0.44
2:D:274:ILE:HD13	2:D:313:MET:HE1	1.99	0.44
3:E:119:MET:HE2	3:E:123:GLU:HG2	2.00	0.44
4:F:79:PRO:O	4:F:84:MET:HE1	2.18	0.44
4:G:101:VAL:HA	4:G:104:ASN:HD22	1.82	0.44
3:H:25:LYS:HB3	3:H:63:THR:HG23	1.98	0.44
1:A:95:LEU:HG	1:A:718:ARG:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:LEU:HD12	1:A:254:ILE:CD1	2.43	0.44
1:A:239:THR:HG21	1:A:472:PHE:CZ	2.53	0.44
1:A:267:ILE:H	1:A:450:LEU:CD2	2.27	0.44
1:A:336:LEU:HB3	1:A:349:GLN:OE1	2.18	0.44
1:A:344:PHE:CE2	1:A:445:ARG:HB3	2.53	0.44
1:A:530:ARG:HH12	1:A:566:HIS:HA	1.82	0.44
1:A:800:GLN:HE22	3:H:115:LEU:HB3	1.83	0.44
1:B:29:TRP:CZ3	1:B:786:GLU:HG2	2.52	0.44
1:B:80:PRO:HA	1:B:81:PRO:HD3	1.92	0.44
1:B:122:VAL:CG2	1:B:710:VAL:HG11	2.48	0.44
1:B:241:LYS:HB3	1:B:689:HIS:HB2	2.00	0.44
1:B:577:ASP:HA	1:B:580:GLU:O	2.18	0.44
1:B:807:LEU:HD12	3:E:123:GLU:HA	1.99	0.44
2:D:53:TYR:HB3	2:D:57:GLU:HB3	2.00	0.44
2:D:142:LEU:HD12	2:D:152:VAL:HG21	1.99	0.44
2:D:156:GLY:O	2:D:303:THR:HG23	2.18	0.44
3:E:27:LEU:HD22	3:E:30:GLN:OE1	2.18	0.44
3:E:35:MET:HB2	3:E:72:MET:HE1	1.98	0.44
3:H:15:PHE:CE2	3:H:26:ILE:HB	2.52	0.44
1:A:61:LEU:O	1:A:65:GLY:CA	2.63	0.44
1:A:173:ILE:CD1	1:A:680:ASN:HB2	2.47	0.44
1:A:391:MET:HA	1:A:621:VAL:HG11	2.00	0.44
1:A:485:THR:HA	1:A:667:LEU:CD1	2.46	0.44
1:A:521:LEU:HD21	1:A:586:TYR:CD2	2.53	0.44
1:A:674:LEU:O	1:A:679:PRO:HG3	2.17	0.44
1:B:12:PHE:CE2	1:B:130:LEU:HB3	2.53	0.44
1:B:234:PHE:HB2	1:B:439:PHE:HD1	1.82	0.44
1:B:280:GLN:NE2	1:B:315:PHE:HB3	2.33	0.44
1:B:313:TYR:CD2	1:B:360:LEU:HD13	2.53	0.44
1:B:497:MET:HE2	1:B:717:CYS:HB2	1.98	0.44
1:B:510:ILE:HD12	1:B:775:PHE:HB2	1.98	0.44
2:C:12:ASN:HD21	2:C:105:LEU:HB3	1.83	0.44
2:C:116:ARG:HH12	2:C:375:PHE:HD2	1.66	0.44
2:C:149:THR:HG23	2:D:45:VAL:HG22	1.99	0.44
2:C:198:TYR:CE1	2:C:248:ILE:HA	2.53	0.44
2:D:221:LEU:CD2	2:D:312:ARG:HB2	2.47	0.44
2:D:230:ALA:HB2	2:D:236:LEU:HB2	1.99	0.44
2:D:330:ILE:HD13	2:D:330:ILE:HA	1.91	0.44
2:D:361:GLU:C	2:D:369:ILE:HG21	2.38	0.44
3:E:11:PHE:HB3	3:E:69:PHE:CE2	2.52	0.44
3:E:92:LEU:HD23	3:E:95:PHE:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:135:ASN:ND2	3:E:137:CYS:HB3	2.33	0.44
3:H:92:LEU:HD22	3:H:140:TYR:HB2	2.00	0.44
1:A:124:ILE:HG23	1:A:701:VAL:HG22	1.99	0.44
1:A:294:ILE:HD11	1:A:360:LEU:HD13	1.99	0.44
1:A:344:PHE:CZ	1:A:441:TRP:HD1	2.36	0.44
1:A:441:TRP:CD1	1:A:620:PHE:HE1	2.36	0.44
1:A:517:PHE:HB2	1:A:716:ILE:HG12	2.00	0.44
1:A:527:LEU:HG	1:A:537:VAL:HG23	1.98	0.44
1:B:79:ASN:HB3	1:B:80:PRO:HD2	1.99	0.44
1:B:494:ASN:HD22	1:B:521:LEU:HD11	1.81	0.44
1:B:516:ASP:HB3	1:B:519:LEU:HG	2.00	0.44
1:B:568:LYS:O	1:B:584:LEU:HG	2.18	0.44
1:B:725:ILE:HG23	1:B:729:GLU:HG2	2.00	0.44
2:C:145:SER:O	2:C:147:ARG:NE	2.50	0.44
2:C:153:LEU:HD11	2:C:274:ILE:HD11	1.98	0.44
2:C:259:GLU:HG3	2:C:263:GLN:HE21	1.82	0.44
2:D:124:PHE:CZ	2:D:132:MET:HB3	2.52	0.44
2:D:236:LEU:O	2:D:254:ARG:HD3	2.17	0.44
3:E:96:ASP:HB2	3:E:103:VAL:HG12	1.99	0.44
3:H:50:VAL:HG23	3:H:51:LEU:HG	1.99	0.44
1:A:77:LYS:H	1:A:96:ASN:ND2	2.15	0.44
1:A:113:ILE:HD12	1:A:126:PRO:HB3	2.00	0.44
1:A:243:ASP:HB2	1:A:324:PRO:O	2.17	0.44
1:A:365:ILE:HG12	1:A:384:ALA:N	2.33	0.44
1:A:390:LEU:C	1:A:391:MET:HE2	2.38	0.44
1:A:452:LYS:HB3	1:A:454:LYS:O	2.17	0.44
1:A:484:TYR:CZ	1:A:667:LEU:HD23	2.53	0.44
1:A:804:ARG:HD3	1:A:804:ARG:HA	1.73	0.44
1:A:806:TYR:HE1	3:H:148:LEU:HA	1.82	0.44
1:A:811:ALA:HB2	3:H:126:GLN:NE2	2.33	0.44
1:A:838:TRP:CE3	1:A:840:TRP:HB2	2.52	0.44
1:B:101:LEU:HD22	1:B:698:ALA:O	2.18	0.44
1:B:127:TYR:CD2	1:B:691:LYS:HA	2.53	0.44
1:B:402:ILE:CG1	1:B:609:VAL:HG21	2.41	0.44
1:B:583:ILE:HG22	1:B:585:HIS:CD2	2.53	0.44
1:B:584:LEU:HD23	1:B:589:LYS:CG	2.47	0.44
1:B:686:ILE:HB	1:B:704:GLN:HG2	2.00	0.44
1:B:804:ARG:HG2	3:E:123:GLU:OE2	2.18	0.44
2:C:40:HIS:HB2	2:C:44:MET:SD	2.57	0.44
2:C:227:MET:HA	2:C:252:ASN:HB3	2.00	0.44
2:C:305:MET:HG3	2:C:336:LYS:HE2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:29:ALA:HB3	2:D:93:GLU:HB3	2.00	0.44
2:D:129:VAL:O	2:D:359:LYS:HB2	2.17	0.44
2:D:164:PRO:HB2	2:D:293:LEU:HD13	2.00	0.44
1:A:7:SER:OG	1:A:10:GLU:HG3	2.18	0.43
1:A:108:TYR:CD1	1:A:113:ILE:HD12	2.53	0.43
1:A:173:ILE:H	1:A:461:LEU:HD21	1.82	0.43
1:A:291:TYR:HB3	1:A:328:ASP:OD2	2.18	0.43
1:A:321:VAL:HB	1:A:322:PRO:HD3	2.00	0.43
1:A:349:GLN:HA	1:A:352:ILE:HB	2.00	0.43
1:A:406:ARG:O	1:A:655:MET:HG3	2.18	0.43
1:A:441:TRP:CE2	1:A:620:PHE:HE1	2.36	0.43
1:B:16:ASP:O	1:B:85:LYS:HB3	2.18	0.43
1:B:288:HIS:HB3	1:B:292:TYR:CZ	2.53	0.43
1:B:306:LEU:CB	1:B:390:LEU:HD21	2.44	0.43
1:B:356:VAL:HG22	1:B:435:PHE:CE1	2.50	0.43
1:B:493:PHE:HD1	1:B:683:ARG:CZ	2.31	0.43
1:B:496:THR:HB	1:B:681:PHE:CE1	2.53	0.43
1:B:508:GLU:CD	1:B:772:SER:H	2.16	0.43
1:B:580:GLU:HG2	1:B:581:PHE:H	1.83	0.43
1:B:738:ALA:O	1:B:759:ALA:HB3	2.18	0.43
1:B:837:ASN:HB3	4:F:137:GLU:HG2	2.00	0.43
2:C:20:GLY:N	2:C:340:TRP:HE1	2.16	0.43
2:C:80:ASP:O	2:C:84:LYS:HG2	2.18	0.43
2:D:33:SER:HB3	2:D:70:PRO:HG2	2.00	0.43
2:D:105:LEU:HD11	2:D:123:MET:CG	2.46	0.43
2:D:282:ILE:HG21	2:D:294:TYR:CD1	2.53	0.43
3:E:14:ALA:HB3	3:E:38:LEU:HD11	2.00	0.43
3:H:128:VAL:O	3:H:132:GLU:N	2.51	0.43
1:A:163:SER:HB2	1:A:171:GLN:HG3	2.00	0.43
1:A:220:LEU:O	1:A:450:LEU:HD12	2.18	0.43
1:A:234:PHE:CB	1:A:439:PHE:HD1	2.31	0.43
1:A:339:MET:C	1:A:344:PHE:HB2	2.37	0.43
1:A:362:LEU:CD2	1:A:398:PHE:HZ	2.28	0.43
1:A:378:MET:SD	1:A:399:THR:HA	2.57	0.43
1:A:496:THR:HB	1:A:681:PHE:HE1	1.81	0.43
1:A:539:ALA:HB2	1:A:664:LYS:NZ	2.33	0.43
1:B:52:GLU:HG3	1:B:57:VAL:HG13	2.00	0.43
1:B:87:GLU:O	1:B:116:TYR:N	2.50	0.43
1:B:187:THR:HA	1:B:463:ILE:CG2	2.47	0.43
1:B:229:PRO:CB	1:B:334:GLU:HB3	2.48	0.43
1:B:231:LEU:HA	1:B:439:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:276:ARG:HD2	1:B:285:ARG:O	2.17	0.43
1:B:292:TYR:CE2	1:B:331:MET:HB3	2.53	0.43
1:B:367:PHE:HE1	1:B:427:ILE:HD11	1.82	0.43
1:B:409:VAL:HG12	2:C:25:ASP:H	1.82	0.43
1:B:530:ARG:HG2	1:B:535:PRO:HA	2.00	0.43
1:B:563:GLN:HA	1:B:566:HIS:HD1	1.83	0.43
1:B:623:ASP:O	1:B:626:LYS:HE3	2.18	0.43
1:B:733:ARG:HB3	1:B:788:ARG:NH2	2.33	0.43
1:B:792:ILE:HG12	3:E:94:VAL:HG23	2.00	0.43
1:B:803:CYS:CB	3:E:127:LEU:HD22	2.47	0.43
2:C:17:VAL:HG21	2:C:85:ILE:HG21	1.99	0.43
2:C:75:ILE:O	2:C:77:THR:HG23	2.17	0.43
2:D:68:LYS:HE2	2:D:81:ASP:OD1	2.18	0.43
2:D:123:MET:O	2:D:129:VAL:HG23	2.18	0.43
2:D:185:LEU:HG	2:D:257:CYS:O	2.17	0.43
2:D:259:GLU:O	2:D:263:GLN:N	2.50	0.43
2:D:358:THR:CG2	2:D:360:GLN:HG3	2.49	0.43
3:E:25:LYS:HA	3:E:64:LEU:O	2.18	0.43
3:E:33:ASP:O	3:E:36:ARG:HB2	2.18	0.43
3:E:55:LYS:HZ3	3:E:58:GLU:HB2	1.83	0.43
4:F:25:PHE:HE2	4:F:87:THR:HG1	1.66	0.43
4:F:96:THR:HG22	4:F:97:ASP:OD2	2.17	0.43
4:F:142:TYR:CZ	4:F:149:LYS:HG3	2.53	0.43
1:A:13:LEU:HA	1:A:13:LEU:HD12	1.71	0.43
1:A:163:SER:HA	1:A:167:ASP:CB	2.45	0.43
1:A:288:HIS:HB3	1:A:292:TYR:CE2	2.53	0.43
1:A:306:LEU:O	1:A:361:GLN:NE2	2.52	0.43
1:A:340:THR:HA	1:A:344:PHE:O	2.17	0.43
1:A:394:ASN:HB3	1:A:612:LEU:HD11	2.00	0.43
1:A:466:ILE:HG21	1:A:489:LEU:HD12	2.01	0.43
1:A:487:GLU:HB2	1:A:585:HIS:HD2	1.83	0.43
1:A:807:LEU:HD21	3:H:127:LEU:CD1	2.48	0.43
1:A:834:LYS:HE3	4:G:165:GLY:N	2.32	0.43
1:B:15:VAL:HG13	1:B:107:ARG:NH1	2.33	0.43
1:B:85:LYS:N	1:B:103:ASN:OD1	2.47	0.43
1:B:183:LYS:HB3	1:B:465:ASP:HA	2.00	0.43
1:B:284:GLU:OE2	1:B:479:GLN:NE2	2.51	0.43
1:B:291:TYR:HD1	1:B:310:PHE:HD1	1.63	0.43
1:B:512:TRP:HD1	1:B:721:PHE:HE2	1.66	0.43
1:B:546:TRP:CZ3	2:C:4:GLU:HG2	2.53	0.43
1:B:782:ALA:HA	1:B:785:GLU:CG	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:807:LEU:HD23	1:B:807:LEU:HA	1.58	0.43
1:B:836:ARG:HD3	4:F:158:PHE:HZ	1.81	0.43
2:C:103:THR:O	2:C:132:MET:HG2	2.19	0.43
2:C:139:VAL:HG23	2:C:163:VAL:HG21	2.01	0.43
3:E:11:PHE:HB3	3:E:69:PHE:HE2	1.84	0.43
3:E:29:SER:HB2	3:E:59:MET:SD	2.59	0.43
1:A:339:MET:HB3	1:A:344:PHE:HB2	2.01	0.43
1:A:436:GLU:O	1:A:440:ARG:HG2	2.18	0.43
1:A:487:GLU:OE2	1:A:524:CYS:HB2	2.17	0.43
1:B:104:LEU:HA	1:B:115:THR:HG21	2.00	0.43
1:B:224:LEU:CD2	1:B:252:ILE:HG12	2.47	0.43
1:B:237:ALA:CB	1:B:276:ARG:HG2	2.49	0.43
1:B:275:SER:HG	1:B:478:GLU:HB3	1.83	0.43
1:B:313:TYR:HB3	1:B:360:LEU:HD22	2.00	0.43
1:B:367:PHE:H	1:B:424:ASP:CG	2.19	0.43
1:B:540:LEU:HB2	1:B:555:PHE:CE1	2.53	0.43
1:B:731:ARG:HD2	1:B:746:PHE:N	2.32	0.43
2:C:350:SER:HA	2:C:353:GLN:HE21	1.83	0.43
2:D:113:LYS:HG3	2:D:371:HIS:NE2	2.33	0.43
2:D:275:HIS:CD2	2:D:316:GLU:HB3	2.53	0.43
4:G:123:ARG:HD3	4:G:123:ARG:HA	1.74	0.43
3:H:27:LEU:HD13	3:H:30:GLN:NE2	2.33	0.43
3:H:30:GLN:O	3:H:34:VAL:HG23	2.18	0.43
3:H:136:GLY:O	3:H:138:ILE:N	2.52	0.43
1:A:108:TYR:HE1	1:A:126:PRO:HB3	1.83	0.43
1:A:141:TYR:CE2	1:A:152:HIS:HB3	2.53	0.43
1:A:164:MET:HG2	1:A:169:GLU:O	2.18	0.43
1:A:228:ASN:HA	1:A:250:LYS:NZ	2.34	0.43
1:A:473:GLU:HG2	1:A:474:ILE:N	2.34	0.43
1:A:484:TYR:HB2	1:A:528:ILE:HG13	2.01	0.43
1:A:660:GLY:O	1:A:664:LYS:HG3	2.19	0.43
1:B:119:LEU:C	1:B:146:ARG:HH21	2.21	0.43
1:B:138:ILE:HG22	1:B:139:ASP:OD1	2.18	0.43
1:B:178:GLU:OE1	1:B:241:LYS:HB2	2.19	0.43
1:B:290:PHE:C	1:B:316:LEU:HD11	2.38	0.43
1:B:306:LEU:HB3	1:B:386:LYS:NZ	2.34	0.43
1:B:365:ILE:HG22	1:B:367:PHE:CE1	2.53	0.43
1:B:670:LEU:HD12	1:B:673:THR:OG1	2.19	0.43
2:C:71:ILE:HG12	2:C:76:ILE:HG12	2.00	0.43
2:C:75:ILE:HG12	2:C:112:PRO:HD2	2.00	0.43
2:C:156:GLY:C	2:C:182:GLY:H	2.21	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:345:ILE:HD13	2:C:345:ILE:HA	1.82	0.43
2:D:34:ILE:HG12	2:D:69:TYR:CD2	2.54	0.43
2:D:178:LEU:O	2:D:180:LEU:N	2.51	0.43
2:D:242:LEU:O	2:D:244:ASP:N	2.43	0.43
3:E:14:ALA:HA	3:E:17:LEU:HB2	1.99	0.43
4:F:116:PHE:HA	4:F:155:TYR:CE1	2.54	0.43
4:F:150:LYS:NZ	4:F:152:ASN:HB3	2.32	0.43
1:A:104:LEU:HD13	1:A:701:VAL:HG12	2.01	0.43
1:A:132:ILE:HA	1:A:137:ILE:CD1	2.49	0.43
1:A:276:ARG:HB3	1:A:287:PHE:CE2	2.54	0.43
1:A:316:LEU:HA	1:A:316:LEU:HD23	1.60	0.43
1:A:388:CYS:SG	1:A:393:ILE:HG13	2.58	0.43
1:A:475:ASN:HD21	1:A:483:ASN:CG	2.21	0.43
1:A:746:PHE:HB3	1:A:752:ALA:HB1	2.01	0.43
1:A:813:ALA:HB3	1:A:815:ARG:CG	2.42	0.43
1:B:89:MET:SD	1:B:103:ASN:HB2	2.58	0.43
1:B:126:PRO:C	1:B:128:LYS:H	2.22	0.43
1:B:136:LYS:O	1:B:140:MET:HB2	2.18	0.43
1:B:153:ILE:HD12	1:B:189:LYS:HG3	2.00	0.43
1:B:168:ARG:NH2	1:B:459:SER:HB3	2.34	0.43
1:B:231:LEU:HD22	1:B:439:PHE:HZ	1.83	0.43
1:B:246:SER:HB3	1:B:248:PHE:O	2.18	0.43
1:B:520:ASP:OD2	1:B:715:ARG:NH1	2.40	0.43
1:B:543:GLU:OE2	2:C:350:SER:OG	2.36	0.43
1:B:620:PHE:CE2	1:B:624:LEU:HD11	2.54	0.43
1:B:686:ILE:N	1:B:704:GLN:HG3	2.34	0.43
1:B:730:PHE:HE1	1:B:776:PHE:CZ	2.37	0.43
1:B:734:TYR:HD2	1:B:737:LEU:HD12	1.84	0.43
1:B:832:TYR:HE1	4:F:158:PHE:HE2	1.66	0.43
2:C:38:PRO:HB3	2:C:65:LEU:HD22	2.01	0.43
2:C:94:LEU:C	2:C:96:VAL:N	2.72	0.43
2:C:157:ASP:HB2	2:C:302:GLY:HA3	1.99	0.43
2:D:8:LEU:HD11	2:D:96:VAL:HG23	2.00	0.43
2:D:10:CYS:SG	2:D:17:VAL:HG13	2.58	0.43
3:E:30:GLN:O	3:E:34:VAL:HG23	2.18	0.43
4:F:143:ARG:HG3	4:F:144:GLU:HG2	2.00	0.43
3:H:42:PRO:HA	3:H:46:GLU:CD	2.39	0.43
1:A:15:VAL:HG21	1:A:87:GLU:HA	2.00	0.43
1:A:254:ILE:HG22	1:A:256:PHE:CE1	2.51	0.43
1:A:263:VAL:HG12	1:A:454:LYS:NZ	2.33	0.43
1:A:358:SER:OG	1:A:387:VAL:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:364:ASN:HB2	1:A:383:ALA:HB1	2.00	0.43
1:A:528:ILE:HA	1:A:537:VAL:HB	2.00	0.43
1:A:532:THR:OG1	2:D:3:ASP:O	2.31	0.43
1:A:611:SER:O	1:A:615:GLN:HG3	2.18	0.43
1:A:790:LEU:O	1:A:793:THR:OG1	2.30	0.43
1:A:840:TRP:CH2	4:G:92:LYS:HA	2.53	0.43
1:B:45:GLU:HA	1:B:63:GLU:CG	2.48	0.43
1:B:103:ASN:O	1:B:107:ARG:HB2	2.19	0.43
1:B:105:ARG:HG3	1:B:696:LEU:CD2	2.49	0.43
1:B:161:TYR:HE2	1:B:165:LEU:HD23	1.83	0.43
1:B:407:ILE:HD12	1:B:416:LYS:O	2.19	0.43
1:B:534:PRO:HB3	1:B:562:GLU:OE2	2.18	0.43
1:B:801:ALA:HA	1:B:804:ARG:NH1	2.34	0.43
2:C:28:ARG:CZ	2:C:94:LEU:HA	2.49	0.43
2:C:153:LEU:HB3	2:C:299:MET:HA	2.01	0.43
2:D:118:LYS:O	2:D:121:GLN:N	2.51	0.43
2:D:128:ASN:HA	2:D:359:LYS:HD2	2.00	0.43
2:D:217:CYS:SG	2:D:257:CYS:HB2	2.59	0.43
2:D:362:TYR:N	2:D:369:ILE:HG21	2.33	0.43
3:E:109:ARG:HE	3:E:128:VAL:HB	1.84	0.43
3:E:131:HIS:HD2	3:E:146:MET:CB	2.31	0.43
3:H:131:HIS:CD2	3:H:143:LEU:HA	2.53	0.43
1:A:12:PHE:HB3	1:A:130:LEU:HD23	2.01	0.43
1:A:79:ASN:HB2	1:A:92:LEU:HD22	2.01	0.43
1:A:175:CYS:HB2	1:A:464:LEU:O	2.19	0.43
1:A:367:PHE:HB3	1:A:376:ALA:O	2.18	0.43
1:A:416:LYS:HE2	2:D:333:PRO:HB2	2.00	0.43
1:A:480:LEU:HD22	1:A:597:TRP:CZ3	2.54	0.43
1:A:757:ILE:HD11	1:A:774:ILE:HD11	2.01	0.43
1:B:232:GLU:HA	1:B:236:ASN:CB	2.38	0.43
1:B:392:GLY:C	1:B:617:SER:H	2.21	0.43
1:B:416:LYS:HD2	2:C:25:ASP:HB3	2.00	0.43
1:B:501:GLU:O	1:B:504:GLU:HB2	2.18	0.43
2:C:38:PRO:HD3	2:C:53:TYR:CE1	2.53	0.43
2:C:50:LYS:HB3	2:C:53:TYR:CE1	2.54	0.43
2:C:99:GLU:HG3	2:C:127:PHE:C	2.38	0.43
2:C:211:ASP:O	2:C:215:LYS:HG2	2.19	0.43
2:D:86:TRP:CH2	2:D:105:LEU:HD13	2.53	0.43
2:D:94:LEU:O	2:D:96:VAL:HG22	2.19	0.43
4:F:150:LYS:HZ3	4:F:152:ASN:HB3	1.83	0.43
4:G:92:LYS:O	4:G:93:LEU:HD22	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:G:153:PHE:CE1	4:G:158:PHE:HB2	2.54	0.43
1:A:12:PHE:O	1:A:112:LEU:HA	2.18	0.43
1:A:230:ILE:CG2	1:A:339:MET:HG3	2.49	0.43
1:A:241:LYS:O	1:A:689:HIS:HB2	2.18	0.43
1:A:272:LEU:HD22	1:A:439:PHE:CD2	2.54	0.43
1:A:273:GLU:HB2	1:A:276:ARG:CB	2.48	0.43
1:A:305:LEU:HA	1:A:390:LEU:HD22	2.00	0.43
1:A:480:LEU:HA	1:A:592:TYR:HE1	1.84	0.43
1:A:527:LEU:HD21	1:A:569:PHE:N	2.34	0.43
1:A:531:PRO:HA	1:A:539:ALA:CB	2.47	0.43
1:A:570:GLN:O	1:A:582:CYS:N	2.43	0.43
1:B:70:LEU:HG	1:B:71:SER:H	1.82	0.43
1:B:539:ALA:HB2	1:B:664:LYS:NZ	2.33	0.43
1:B:612:LEU:HD12	1:B:615:GLN:HB2	2.00	0.43
1:B:722:PRO:HG2	1:B:778:THR:HG23	2.01	0.43
2:C:7:ALA:HB3	2:C:347:ALA:HB1	2.00	0.43
2:C:144:ALA:HB3	2:C:338:SER:HB2	2.00	0.43
2:C:359:LYS:HB3	2:C:360:GLN:OE1	2.18	0.43
2:D:9:VAL:HB	2:D:340:TRP:NE1	2.34	0.43
2:D:10:CYS:HB2	2:D:90:PHE:CZ	2.54	0.43
2:D:116:ARG:HB2	2:D:371:HIS:NE2	2.34	0.43
2:D:189:LEU:HA	2:D:192:ILE:CD1	2.44	0.43
3:E:36:ARG:NE	3:E:47:VAL:HG21	2.27	0.43
4:F:160:ARG:O	4:F:165:GLY:N	2.52	0.43
3:H:86:GLU:HA	3:H:89:VAL:HG22	2.00	0.43
3:H:95:PHE:HA	3:H:97:LYS:HE2	2.00	0.43
1:A:238:LYS:HB2	1:A:285:ARG:HD3	2.00	0.43
1:A:241:LYS:HB2	1:A:472:PHE:HE1	1.83	0.43
1:A:272:LEU:HD23	1:A:436:GLU:HA	2.01	0.43
1:A:411:ARG:CZ	2:D:28:ARG:HH11	2.31	0.43
1:A:566:HIS:CB	1:A:569:PHE:HB3	2.47	0.43
1:A:725:ILE:HB	1:A:776:PHE:CD2	2.54	0.43
1:B:2:SER:HA	1:B:150:PRO:HB2	2.01	0.43
1:B:74:ASP:OD1	1:B:74:ASP:N	2.52	0.43
1:B:76:GLN:HE22	1:B:97:GLU:HG2	1.84	0.43
1:B:247:ARG:HH12	1:B:472:PHE:HE2	1.67	0.43
1:B:351:SER:OG	1:B:621:VAL:HG23	2.19	0.43
1:B:658:THR:H	1:B:658:THR:HG23	1.57	0.43
1:B:722:PRO:HB2	1:B:778:THR:HG23	2.00	0.43
2:C:303:THR:HG23	2:C:306:TYR:HD2	1.84	0.43
2:D:286:ASP:O	2:D:290:ARG:N	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:29:SER:HB2	3:E:59:MET:HG2	2.01	0.43
4:G:28:SER:O	4:G:31:GLN:HG3	2.19	0.43
3:H:12:LYS:HG2	3:H:66:PHE:CZ	2.54	0.43
1:A:14:PHE:HA	1:A:150:PRO:HG2	2.01	0.42
1:A:160:ALA:CB	1:A:171:GLN:HB2	2.49	0.42
1:A:252:ILE:HB	1:A:463:ILE:HD12	2.01	0.42
1:A:326:GLN:HG2	1:A:331:MET:CE	2.49	0.42
1:A:477:PHE:CZ	1:A:660:GLY:HA2	2.54	0.42
1:A:675:ARG:NH2	1:A:679:PRO:HD2	2.34	0.42
1:B:227:ALA:O	1:B:231:LEU:HG	2.19	0.42
1:B:238:LYS:HE3	1:B:320:HIS:CE1	2.54	0.42
1:B:374:ASP:O	1:B:419:THR:HA	2.19	0.42
1:B:477:PHE:HB3	1:B:600:LYS:NZ	2.33	0.42
1:B:484:TYR:O	1:B:487:GLU:HB2	2.19	0.42
1:B:696:LEU:HD11	1:B:701:VAL:CG2	2.49	0.42
2:D:50:LYS:HE2	2:D:50:LYS:HB3	1.85	0.42
2:D:240:TYR:O	2:D:248:ILE:HB	2.19	0.42
3:E:27:LEU:HD13	3:E:30:GLN:NE2	2.34	0.42
4:G:32:GLU:HA	4:G:35:GLU:HG3	2.01	0.42
1:A:34:LEU:C	1:A:78:MET:HB3	2.39	0.42
1:A:60:GLU:O	1:A:62:GLN:N	2.52	0.42
1:A:101:LEU:HD23	1:A:104:LEU:HD12	2.01	0.42
1:A:234:PHE:CD1	1:A:442:ILE:HG13	2.53	0.42
1:A:237:ALA:HB1	1:A:285:ARG:O	2.20	0.42
1:A:279:ARG:NH2	1:A:315:PHE:HE1	2.17	0.42
1:A:292:TYR:HD1	1:A:328:ASP:HA	1.82	0.42
1:A:387:VAL:O	1:A:391:MET:HG2	2.19	0.42
1:A:464:LEU:HD11	1:A:466:ILE:HG22	2.01	0.42
1:A:573:LYS:HD3	1:A:575:LEU:H	1.84	0.42
1:A:752:ALA:HA	1:A:755:LEU:HB2	2.01	0.42
1:A:844:PHE:CD1	4:F:62:LYS:HB3	2.54	0.42
1:B:142:LYS:HA	1:B:193:TYR:HH	1.84	0.42
1:B:351:SER:CB	1:B:620:PHE:HB3	2.49	0.42
1:B:468:GLY:O	1:B:470:GLU:HG2	2.20	0.42
1:B:504:GLU:O	1:B:507:ARG:HB2	2.19	0.42
2:C:10:CYS:SG	2:C:86:TRP:CD1	3.10	0.42
2:C:36:GLY:CA	2:C:53:TYR:HB2	2.50	0.42
2:C:159:VAL:HG22	2:C:161:HIS:CE1	2.53	0.42
2:C:217:CYS:SG	2:C:258:PRO:HD3	2.59	0.42
4:F:68:TYR:CD1	4:G:95:GLY:HA3	2.54	0.42
3:H:15:PHE:CE2	3:H:31:CYS:HB2	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:41:ASN:OD1	3:H:82:GLN:HG3	2.18	0.42
3:H:122:GLU:O	3:H:126:GLN:HG3	2.19	0.42
1:A:15:VAL:HG22	1:A:107:ARG:HH12	1.84	0.42
1:A:66:LYS:HB2	1:A:66:LYS:HE3	1.69	0.42
1:A:145:LYS:HB2	1:A:148:GLU:CD	2.38	0.42
1:A:291:TYR:CE1	1:A:310:PHE:HB3	2.55	0.42
1:A:292:TYR:HA	1:A:328:ASP:CA	2.49	0.42
1:A:365:ILE:HG21	1:A:384:ALA:HB2	2.00	0.42
1:A:391:MET:CA	1:A:621:VAL:HG11	2.49	0.42
1:A:434:LYS:HA	1:A:625:TRP:NE1	2.33	0.42
1:A:477:PHE:CE2	1:A:659:VAL:HG23	2.53	0.42
1:B:104:LEU:CD2	1:B:122:VAL:HG11	2.50	0.42
1:B:237:ALA:O	1:B:247:ARG:HG2	2.19	0.42
1:B:274:LYS:HG2	1:B:663:TYR:OH	2.19	0.42
1:B:556:VAL:HG22	1:B:559:LEU:HD12	2.01	0.42
1:B:825:ILE:HA	4:F:105:ALA:HB1	2.02	0.42
2:C:8:LEU:HB3	2:C:90:PHE:CD1	2.54	0.42
2:C:11:ASP:HA	2:C:106:THR:HG23	1.99	0.42
2:C:19:ALA:HB1	2:C:94:LEU:HG	2.01	0.42
2:C:79:TRP:CD1	2:C:118:LYS:HG2	2.55	0.42
2:C:90:PHE:CE1	2:C:103:THR:HB	2.55	0.42
2:D:15:GLY:N	2:D:157:ASP:O	2.53	0.42
2:D:247:VAL:O	2:D:248:ILE:HD13	2.19	0.42
3:E:91:GLY:HA2	3:E:94:VAL:HG22	2.00	0.42
3:E:103:VAL:HG21	3:E:108:ILE:HD13	2.00	0.42
3:E:142:GLU:HA	3:E:145:ARG:HG2	2.01	0.42
1:A:194:LEU:HB3	1:A:256:PHE:CZ	2.55	0.42
1:A:238:LYS:HE2	1:A:320:HIS:CD2	2.55	0.42
1:A:252:ILE:HB	1:A:463:ILE:HB	2.00	0.42
1:A:398:PHE:HA	1:A:609:VAL:HG21	2.02	0.42
1:A:487:GLU:O	1:A:521:LEU:HD22	2.20	0.42
1:A:742:ILE:HD12	1:A:746:PHE:CE1	2.55	0.42
1:B:95:LEU:HD22	1:B:714:ILE:CG2	2.49	0.42
1:B:174:LEU:HB2	1:B:683:ARG:NH2	2.34	0.42
1:B:342:MET:C	1:B:445:ARG:HG3	2.40	0.42
1:B:342:MET:SD	1:B:446:VAL:HA	2.59	0.42
1:B:411:ARG:H	2:C:28:ARG:CG	2.17	0.42
1:B:571:LYS:HD3	1:B:577:ASP:OD2	2.19	0.42
1:B:585:HIS:CD2	1:B:592:TYR:HE2	2.36	0.42
1:B:683:ARG:CB	1:B:685:ILE:HD11	2.49	0.42
2:C:104:LEU:HD12	2:C:352:PHE:CE1	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:108:ALA:O	2:C:111:ASN:HB2	2.20	0.42
2:C:134:VAL:HB	2:C:370:VAL:HG13	2.00	0.42
2:C:305:MET:SD	2:C:336:LYS:HB2	2.60	0.42
2:D:208:ILE:HG12	2:D:240:TYR:OH	2.18	0.42
2:D:369:ILE:HA	2:D:372:ARG:HB2	2.02	0.42
4:F:29:GLN:NE2	4:F:94:ASN:HD21	2.09	0.42
3:H:35:MET:HG3	3:H:76:ILE:HG13	2.01	0.42
1:A:43:GLY:HA2	1:A:105:ARG:NH1	2.34	0.42
1:A:113:ILE:HG13	1:A:126:PRO:HG3	2.02	0.42
1:A:137:ILE:O	1:A:141:TYR:N	2.52	0.42
1:A:145:LYS:HA	1:A:162:ARG:NH2	2.32	0.42
1:A:194:LEU:HB3	1:A:256:PHE:CE1	2.54	0.42
1:A:288:HIS:CG	1:A:323:ILE:HD11	2.54	0.42
1:A:315:PHE:CD2	1:A:359:VAL:HG12	2.55	0.42
1:A:504:GLU:HA	1:A:507:ARG:HD2	2.02	0.42
1:A:541:LEU:HD21	1:A:601:ASN:HB3	2.02	0.42
1:A:586:TYR:CZ	1:A:712:GLU:HB3	2.55	0.42
1:A:734:TYR:CG	1:A:760:LEU:HD11	2.55	0.42
1:A:812:PHE:HE1	3:H:36:ARG:HB3	1.84	0.42
1:B:124:ILE:HG21	1:B:696:LEU:CD1	2.50	0.42
1:B:164:MET:O	1:B:168:ARG:HA	2.18	0.42
1:B:177:GLY:CA	1:B:704:GLN:HE22	2.33	0.42
1:B:343:GLY:O	1:B:445:ARG:NH1	2.50	0.42
1:B:491:GLN:N	1:B:521:LEU:HD22	2.33	0.42
1:B:742:ILE:HG23	1:B:746:PHE:CD2	2.53	0.42
2:C:42:GLY:H	2:C:47:MET:HE1	1.84	0.42
2:C:116:ARG:HB3	2:C:370:VAL:CB	2.49	0.42
2:C:116:ARG:NH1	2:C:375:PHE:HD2	2.16	0.42
2:C:181:ALA:C	2:C:185:LEU:HD13	2.40	0.42
2:C:198:TYR:HB3	2:C:200:PHE:CE2	2.54	0.42
2:C:227:MET:HG3	2:C:252:ASN:ND2	2.34	0.42
2:D:7:ALA:HB3	2:D:347:ALA:CB	2.48	0.42
1:A:168:ARG:NH2	1:A:458:ALA:O	2.36	0.42
1:A:238:LYS:HA	1:A:243:ASP:O	2.20	0.42
1:A:278:ILE:HD11	1:A:599:THR:O	2.20	0.42
1:A:335:THR:HG22	1:A:339:MET:CE	2.49	0.42
1:A:738:ALA:CB	1:A:759:ALA:HB1	2.50	0.42
1:B:153:ILE:HA	1:B:682:VAL:HG22	2.01	0.42
1:B:243:ASP:HB2	1:B:323:ILE:HG23	2.00	0.42
1:B:244:ASN:HA	1:B:323:ILE:HD13	2.02	0.42
1:B:248:PHE:CG	1:B:269:THR:HB	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:253:ARG:HG3	1:B:460:PHE:HB2	2.00	0.42
1:B:365:ILE:HD13	1:B:384:ALA:HA	2.00	0.42
1:B:498:PHE:O	1:B:502:GLN:HG2	2.20	0.42
1:B:715:ARG:NH1	1:B:719:GLN:HG3	2.35	0.42
2:C:79:TRP:HB2	2:C:122:ILE:CD1	2.50	0.42
2:C:118:LYS:HA	2:C:121:GLN:NE2	2.34	0.42
2:D:34:ILE:HD13	2:D:207:GLU:CD	2.40	0.42
2:D:90:PHE:CD2	2:D:98:PRO:HG3	2.55	0.42
2:D:116:ARG:HB3	2:D:370:VAL:CG1	2.50	0.42
2:D:334:GLU:HB3	2:D:341:ILE:HD11	2.02	0.42
3:H:15:PHE:HA	3:H:34:VAL:HG21	2.00	0.42
3:H:138:ILE:HG22	3:H:143:LEU:HB2	2.00	0.42
1:A:130:LEU:O	1:A:133:TYR:N	2.45	0.42
1:A:292:TYR:CB	1:A:332:PHE:HB2	2.40	0.42
1:A:357:SER:O	1:A:360:LEU:HB2	2.19	0.42
1:A:469:PHE:O	1:A:707:CYS:HB2	2.19	0.42
1:A:728:GLN:HE21	1:A:732:GLN:HG3	1.85	0.42
1:A:845:THR:HG23	4:G:92:LYS:HZ1	1.85	0.42
1:B:306:LEU:HA	1:B:306:LEU:HD23	1.78	0.42
1:B:399:THR:HG22	1:B:403:LEU:CD1	2.50	0.42
1:B:464:LEU:HB2	1:B:674:LEU:HD21	2.01	0.42
1:B:581:PHE:HE2	1:B:583:ILE:HG13	1.84	0.42
2:C:10:CYS:SG	2:C:12:ASN:HB3	2.59	0.42
2:C:11:ASP:OD2	2:C:339:VAL:HB	2.19	0.42
2:C:237:GLU:HG3	2:C:251:GLY:HA2	2.02	0.42
2:C:346:LEU:HB3	2:C:355:MET:CE	2.49	0.42
2:D:11:ASP:HB2	2:D:340:TRP:HB2	2.01	0.42
2:D:124:PHE:CD1	2:D:359:LYS:HA	2.55	0.42
2:D:133:TYR:CG	2:D:356:TRP:HA	2.54	0.42
2:D:155:SER:HB3	2:D:160:THR:HG23	2.02	0.42
2:D:212:ILE:HD13	2:D:250:ILE:HG12	2.02	0.42
2:D:317:ILE:HB	2:D:327:ILE:HG21	2.01	0.42
4:F:37:PHE:HD1	4:F:48:ILE:HG12	1.85	0.42
4:G:37:PHE:O	4:G:40:ILE:HG22	2.20	0.42
3:H:89:VAL:HA	3:H:140:TYR:CE2	2.55	0.42
1:A:18:ASN:O	1:A:82:LYS:HA	2.20	0.42
1:A:123:VAL:CG2	1:A:682:VAL:HG13	2.49	0.42
1:A:226:GLN:O	1:A:338:ALA:HB1	2.18	0.42
1:A:355:VAL:CG1	1:A:438:LEU:HB2	2.46	0.42
1:A:469:PHE:HB2	1:A:707:CYS:HA	2.02	0.42
1:A:743:PRO:HB2	3:H:93:ARG:NE	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:94:CYS:SG	1:B:782:ALA:HB3	2.60	0.42
1:B:104:LEU:HD23	1:B:115:THR:OG1	2.19	0.42
1:B:158:ASP:OD1	1:B:162:ARG:HG3	2.19	0.42
1:B:369:LYS:HG2	1:B:420:LYS:HB3	2.01	0.42
1:B:408:LYS:HG3	1:B:413:VAL:HG22	2.00	0.42
1:B:470:GLU:HB3	1:B:472:PHE:CD2	2.55	0.42
1:B:535:PRO:O	1:B:540:LEU:HD21	2.19	0.42
1:B:536:GLY:C	1:B:540:LEU:HG	2.39	0.42
1:B:681:PHE:HD1	1:B:683:ARG:HH21	1.68	0.42
1:B:744:LYS:NZ	3:E:94:VAL:HA	2.35	0.42
1:B:781:LEU:HD23	1:B:784:LEU:HD12	2.01	0.42
1:B:818:GLN:HB2	3:E:20:ARG:HH12	1.84	0.42
2:C:123:MET:HG3	2:C:132:MET:CG	2.44	0.42
2:C:136:ILE:O	2:C:140:LEU:HG	2.19	0.42
2:C:142:LEU:HD13	2:C:152:VAL:HG22	2.01	0.42
2:C:166:TYR:HB3	2:C:285:CYS:SG	2.59	0.42
2:C:213:LYS:HG3	2:C:217:CYS:SG	2.60	0.42
2:D:12:ASN:H	2:D:106:THR:HG1	1.67	0.42
2:D:166:TYR:CG	2:D:289:ILE:HG23	2.55	0.42
2:D:317:ILE:CB	2:D:327:ILE:HG21	2.50	0.42
1:A:4:LYS:HB2	1:A:10:GLU:HG3	2.02	0.42
1:A:33:LYS:HD3	1:A:33:LYS:HA	1.79	0.42
1:A:194:LEU:HD13	1:A:256:PHE:CZ	2.55	0.42
1:A:244:ASN:N	1:A:326:GLN:HE22	2.18	0.42
1:A:275:SER:HB2	1:A:600:LYS:HB3	2.02	0.42
1:A:535:PRO:HG2	1:A:543:GLU:HB2	2.01	0.42
1:A:744:LYS:NZ	3:H:93:ARG:O	2.41	0.42
1:A:769:ILE:HD13	1:A:769:ILE:HA	1.93	0.42
1:B:18:ASN:O	1:B:82:LYS:HA	2.20	0.42
1:B:34:LEU:HG	1:B:46:ALA:HB1	2.02	0.42
1:B:170:ASP:HA	1:B:460:PHE:H	1.85	0.42
1:B:385:GLN:CG	1:B:395:VAL:HG21	2.49	0.42
1:B:782:ALA:HA	1:B:785:GLU:HG3	2.02	0.42
2:C:137:GLN:HG3	2:C:339:VAL:HG11	2.02	0.42
2:C:171:LEU:HD13	2:C:173:HIS:CE1	2.54	0.42
2:C:205:GLU:HA	2:C:208:ILE:HB	2.02	0.42
2:D:54:VAL:HG11	2:D:84:LYS:O	2.19	0.42
2:D:90:PHE:CE2	2:D:123:MET:HE3	2.55	0.42
2:D:193:LEU:HB3	2:D:200:PHE:HE2	1.85	0.42
2:D:216:LEU:HA	2:D:238:LYS:NZ	2.35	0.42
2:D:220:ALA:HB3	2:D:259:GLU:OE2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:222:ASP:OD1	2:D:226:GLU:HG3	2.20	0.42
2:D:259:GLU:HB3	2:D:266:PHE:CE2	2.46	0.42
2:D:301:GLY:C	2:D:336:LYS:HA	2.40	0.42
3:E:58:GLU:HA	3:E:62:LYS:HB3	2.01	0.42
3:E:66:PHE:HE2	3:E:69:PHE:HD2	1.66	0.42
1:A:70:LEU:HD21	1:A:74:ASP:HB2	2.02	0.42
1:A:227:ALA:HB2	1:A:446:VAL:HG13	2.01	0.42
1:A:230:ILE:H	1:A:230:ILE:HG13	1.66	0.42
1:A:292:TYR:HB3	1:A:332:PHE:CB	2.42	0.42
1:A:294:ILE:HB	1:A:310:PHE:CD1	2.54	0.42
1:A:315:PHE:HD2	1:A:359:VAL:HG12	1.84	0.42
1:A:485:THR:CA	1:A:667:LEU:HD13	2.44	0.42
1:A:494:ASN:ND2	1:A:716:ILE:HD11	2.35	0.42
1:A:685:ILE:HG21	1:A:701:VAL:HG13	2.02	0.42
1:A:738:ALA:HB1	1:A:759:ALA:HB1	2.02	0.42
1:B:68:VAL:HG12	1:B:69:THR:O	2.19	0.42
1:B:88:ASP:HB3	1:B:91:GLU:HG3	2.02	0.42
1:B:116:TYR:HD1	1:B:120:PHE:O	2.03	0.42
1:B:119:LEU:HD13	1:B:500:LEU:CB	2.49	0.42
1:B:528:ILE:CD1	1:B:583:ILE:HD13	2.50	0.42
1:B:533:ASN:N	2:C:353:GLN:HE22	2.15	0.42
1:B:661:GLN:HA	1:B:664:LYS:HD2	2.02	0.42
1:B:804:ARG:HD2	3:E:43:THR:HA	2.00	0.42
2:C:10:CYS:HB2	2:C:90:PHE:HZ	1.80	0.42
2:C:31:PHE:CE2	2:C:85:ILE:HG23	2.55	0.42
2:C:220:ALA:HB3	2:C:259:GLU:CD	2.41	0.42
2:D:116:ARG:NH1	2:D:371:HIS:HA	2.32	0.42
3:E:36:ARG:HG2	3:E:42:PRO:CD	2.49	0.42
3:E:97:LYS:HD2	3:E:97:LYS:H	1.85	0.42
3:E:128:VAL:O	3:E:132:GLU:N	2.53	0.42
1:A:108:TYR:HB3	1:A:696:LEU:CD1	2.48	0.41
1:A:191:ILE:HG12	1:A:221:GLU:HB3	2.01	0.41
1:A:275:SER:HB2	1:A:600:LYS:CB	2.50	0.41
1:A:290:PHE:HB3	1:A:316:LEU:CD2	2.39	0.41
1:A:293:LEU:HA	1:A:293:LEU:HD12	1.55	0.41
1:A:294:ILE:CG1	1:A:307:LEU:HD22	2.35	0.41
1:A:505:TYR:HB3	1:A:513:ASN:ND2	2.34	0.41
1:A:569:PHE:HE2	1:A:581:PHE:CG	2.37	0.41
1:A:656:PHE:HB3	1:A:657:ARG:H	1.61	0.41
1:A:732:GLN:HG2	1:A:745:GLY:N	2.35	0.41
1:A:736:ILE:HD11	1:A:795:VAL:HB	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:PHE:HB2	1:B:132:ILE:HD13	2.02	0.41
1:B:35:VAL:HG23	1:B:47:ALA:N	2.30	0.41
1:B:170:ASP:O	1:B:677:THR:HB	2.20	0.41
1:B:194:LEU:CD1	1:B:461:LEU:HD23	2.30	0.41
1:B:475:ASN:HB3	1:B:592:TYR:CE1	2.54	0.41
1:B:499:ILE:O	1:B:503:GLU:HG3	2.20	0.41
1:B:510:ILE:HG13	1:B:775:PHE:CG	2.55	0.41
1:B:566:HIS:CB	1:B:569:PHE:HB2	2.48	0.41
1:B:613:LEU:O	1:B:616:SER:OG	2.28	0.41
2:C:35:VAL:HA	2:C:53:TYR:O	2.20	0.41
2:C:69:TYR:HD2	2:C:72:GLU:OE1	2.02	0.41
2:C:70:PRO:HG2	2:C:85:ILE:HD12	2.01	0.41
2:C:150:GLY:H	2:C:165:ILE:HB	1.85	0.41
2:C:282:ILE:O	2:C:285:CYS:HB2	2.20	0.41
2:C:317:ILE:HG23	2:C:317:ILE:HD12	1.70	0.41
2:D:20:GLY:N	2:D:94:LEU:HD11	2.35	0.41
2:D:299:MET:HE3	2:D:313:MET:HB3	2.02	0.41
3:E:35:MET:O	3:E:40:GLN:HB2	2.19	0.41
1:A:145:LYS:HA	1:A:162:ARG:HH12	1.85	0.41
1:A:145:LYS:HD2	1:A:162:ARG:NH1	2.34	0.41
1:A:281:ALA:HB3	1:A:284:GLU:HB2	2.02	0.41
1:A:293:LEU:HD12	1:A:297:ALA:HB2	2.01	0.41
1:A:542:ASP:OD1	1:A:658:THR:OG1	2.33	0.41
1:A:721:PHE:HE1	1:A:775:PHE:O	2.03	0.41
1:A:767:TYR:CD1	1:A:780:VAL:HG11	2.55	0.41
1:B:165:LEU:HD13	1:B:259:THR:C	2.40	0.41
1:B:230:ILE:H	1:B:230:ILE:HG13	1.56	0.41
1:B:256:PHE:HA	1:B:261:TYR:O	2.20	0.41
1:B:394:ASN:HB3	1:B:397:ASP:HB2	2.02	0.41
1:B:498:PHE:HA	1:B:517:PHE:CD2	2.53	0.41
1:B:532:THR:CA	1:B:535:PRO:HG3	2.41	0.41
1:B:721:PHE:CD2	1:B:775:PHE:HB3	2.55	0.41
1:B:792:ILE:HG12	3:E:94:VAL:HG21	2.02	0.41
1:B:799:PHE:CE2	3:E:112:LEU:HD21	2.55	0.41
2:C:20:GLY:HA2	2:C:28:ARG:HB3	2.02	0.41
2:C:94:LEU:HB3	2:C:96:VAL:CG2	2.45	0.41
2:C:218:TYR:O	2:C:258:PRO:HG2	2.20	0.41
2:C:261:LEU:HG	2:C:274:ILE:CG2	2.50	0.41
2:D:58:ALA:HB1	2:D:67:LEU:HD22	2.02	0.41
2:D:75:ILE:HG23	2:D:115:ASN:OD1	2.20	0.41
2:D:178:LEU:HD22	2:D:274:ILE:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:43:THR:HB	3:E:46:GLU:CD	2.40	0.41
4:F:80:ILE:HA	4:F:84:MET:CE	2.50	0.41
4:F:109:PHE:CZ	4:F:125:LEU:HD13	2.55	0.41
3:H:80:LYS:HD2	3:H:82:GLN:OE1	2.20	0.41
1:A:101:LEU:HA	1:A:101:LEU:HD23	1.84	0.41
1:A:161:TYR:HA	1:A:256:PHE:CE2	2.52	0.41
1:A:552:ASP:O	1:A:555:PHE:HB3	2.20	0.41
1:A:667:LEU:C	1:A:667:LEU:HD12	2.40	0.41
1:A:802:GLN:OE1	3:H:83:GLY:HA2	2.20	0.41
1:A:841:TRP:O	4:G:92:LYS:HE2	2.20	0.41
1:B:52:GLU:OE2	1:B:72:LYS:NZ	2.36	0.41
1:B:133:TYR:CB	1:B:189:LYS:HD3	2.46	0.41
1:B:156:ILE:HG12	1:B:681:PHE:O	2.20	0.41
1:B:231:LEU:HD11	1:B:267:ILE:CD1	2.49	0.41
1:B:294:ILE:HB	1:B:310:PHE:CD1	2.55	0.41
1:B:391:MET:CB	1:B:621:VAL:HG11	2.49	0.41
1:B:571:LYS:HG2	1:B:577:ASP:HB2	2.02	0.41
1:B:687:PRO:HB3	1:B:696:LEU:HD12	2.01	0.41
1:B:718:ARG:HA	1:B:722:PRO:CG	2.50	0.41
1:B:722:PRO:CG	1:B:778:THR:H	2.22	0.41
1:B:730:PHE:HB3	1:B:753:CYS:HG	1.84	0.41
1:B:755:LEU:HD23	1:B:755:LEU:HA	1.75	0.41
2:C:38:PRO:HG2	2:C:41:GLN:HB3	2.02	0.41
2:C:54:VAL:HG11	2:C:88:HIS:HB2	2.02	0.41
2:C:118:LYS:O	2:C:122:ILE:HD12	2.21	0.41
2:C:188:TYR:CE2	2:C:266:PHE:HD2	2.38	0.41
2:C:261:LEU:HD23	2:C:262:PHE:CE1	2.56	0.41
2:C:262:PHE:HB3	2:C:275:HIS:CE1	2.56	0.41
2:D:5:THR:C	2:D:7:ALA:N	2.73	0.41
2:D:18:LYS:HB3	2:D:27:PRO:CB	2.49	0.41
2:D:37:ARG:CD	2:D:51:ASP:HB3	2.50	0.41
2:D:90:PHE:HE2	2:D:123:MET:HE3	1.85	0.41
2:D:118:LYS:O	2:D:119:MET:C	2.57	0.41
2:D:140:LEU:HD22	2:D:343:GLY:N	2.35	0.41
2:D:145:SER:OG	2:D:333:PRO:HD2	2.20	0.41
2:D:208:ILE:O	2:D:212:ILE:HG13	2.21	0.41
3:E:112:LEU:HD13	3:E:127:LEU:CD2	2.50	0.41
4:G:93:LEU:HB3	4:G:163:LYS:HZ1	1.84	0.41
3:H:55:LYS:HG3	3:H:57:ASP:OD2	2.20	0.41
1:A:15:VAL:HA	1:A:112:LEU:HD13	2.02	0.41
1:A:116:TYR:HA	1:A:116:TYR:HD1	1.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:158:ASP:HA	1:A:193:TYR:CZ	2.55	0.41
1:A:161:TYR:HE1	1:A:260:GLY:O	2.04	0.41
1:A:232:GLU:HB3	1:A:244:ASN:OD1	2.20	0.41
1:A:238:LYS:HE2	1:A:320:HIS:CG	2.55	0.41
1:A:292:TYR:HA	1:A:328:ASP:HA	2.03	0.41
1:A:352:ILE:HG23	1:A:438:LEU:HD11	2.01	0.41
1:B:9:ASP:HA	1:B:131:PRO:O	2.21	0.41
1:B:271:LEU:H	1:B:666:GLN:CB	2.25	0.41
1:B:393:ILE:CG2	1:B:613:LEU:HA	2.50	0.41
1:B:402:ILE:HG22	1:B:423:ALA:HB1	2.01	0.41
1:B:785:GLU:OE1	1:B:788:ARG:NH1	2.32	0.41
2:C:39:ARG:HH22	2:C:202:THR:HG21	1.85	0.41
2:C:79:TRP:HB2	2:C:122:ILE:HD11	2.03	0.41
2:C:229:THR:HG21	2:C:236:LEU:HD12	2.02	0.41
2:D:17:VAL:HG21	2:D:85:ILE:HD12	2.02	0.41
2:D:98:PRO:O	2:D:129:VAL:HA	2.20	0.41
2:D:317:ILE:HG23	2:D:317:ILE:HD12	1.66	0.41
3:E:57:ASP:O	3:E:61:LEU:N	2.48	0.41
4:F:123:ARG:O	4:F:126:LEU:HG	2.21	0.41
4:G:84:MET:HG3	4:G:88:MET:HE3	2.03	0.41
1:A:35:VAL:HG21	1:A:47:ALA:HB3	2.02	0.41
1:A:156:ILE:CG2	1:A:173:ILE:HG23	2.50	0.41
1:A:173:ILE:HG12	1:A:461:LEU:CD2	2.47	0.41
1:A:175:CYS:SG	1:A:187:THR:N	2.94	0.41
1:A:310:PHE:CD2	1:A:321:VAL:HG22	2.56	0.41
1:A:327:GLN:NE2	1:A:329:ASP:HB2	2.36	0.41
1:A:327:GLN:O	1:A:331:MET:HB2	2.20	0.41
1:A:844:PHE:N	4:G:92:LYS:HE3	2.34	0.41
1:B:4:LYS:NZ	1:B:10:GLU:OE1	2.30	0.41
1:B:16:ASP:N	1:B:112:LEU:HD11	2.12	0.41
1:B:26:GLN:HE21	1:B:786:GLU:C	2.21	0.41
1:B:310:PHE:HA	1:B:316:LEU:HD12	2.03	0.41
1:B:378:MET:HB3	1:B:403:LEU:HD11	2.02	0.41
1:B:619:LYS:HE2	1:B:619:LYS:HA	2.02	0.41
1:B:792:ILE:CG2	3:E:95:PHE:HB2	2.50	0.41
1:B:831:ALA:O	4:F:96:THR:HG21	2.21	0.41
2:C:8:LEU:HD23	2:C:21:PHE:HB3	2.02	0.41
2:C:76:ILE:HG23	2:C:82:MET:CG	2.37	0.41
2:C:83:GLU:OE1	2:C:126:THR:OG1	2.16	0.41
2:D:302:GLY:CA	2:D:336:LYS:HG3	2.51	0.41
3:E:46:GLU:HB2	3:E:49:LYS:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:271:LEU:H	1:A:666:GLN:CB	2.28	0.41
1:A:275:SER:N	1:A:663:TYR:OH	2.32	0.41
1:A:278:ILE:HB	1:A:315:PHE:CZ	2.55	0.41
1:A:331:MET:O	1:A:334:GLU:HG2	2.19	0.41
1:A:530:ARG:O	1:A:539:ALA:HB3	2.20	0.41
1:A:540:LEU:HD13	1:A:559:LEU:CA	2.51	0.41
1:A:686:ILE:CB	1:A:704:GLN:HG3	2.41	0.41
1:A:840:TRP:CZ2	4:G:92:LYS:HA	2.54	0.41
1:B:9:ASP:O	1:B:137:ILE:HG13	2.20	0.41
1:B:45:GLU:H	1:B:74:ASP:HB3	1.85	0.41
1:B:157:ALA:CB	1:B:190:VAL:HG13	2.51	0.41
1:B:299:GLU:HA	1:B:302:ARG:CB	2.34	0.41
1:B:357:SER:O	1:B:360:LEU:HB2	2.20	0.41
1:B:362:LEU:HD11	1:B:430:LEU:HD23	2.01	0.41
1:B:381:ASN:HB3	1:B:399:THR:CG2	2.50	0.41
1:B:474:ILE:O	1:B:479:GLN:HG2	2.20	0.41
1:B:502:GLN:NE2	1:B:513:ASN:HB3	2.35	0.41
1:B:662:LEU:O	1:B:665:GLU:HB3	2.21	0.41
1:B:757:ILE:CD1	1:B:774:ILE:HD13	2.44	0.41
1:B:768:ARG:HD2	1:B:768:ARG:HA	1.76	0.41
1:B:851:LEU:HB2	4:F:164:HIS:NE2	2.36	0.41
2:C:2:GLU:H	2:C:6:THR:HG21	1.85	0.41
2:C:90:PHE:HZ	2:C:105:LEU:CD2	2.34	0.41
2:C:105:LEU:HD21	2:C:123:MET:SD	2.61	0.41
2:C:106:THR:HG21	2:C:339:VAL:HG12	2.02	0.41
2:C:180:LEU:HA	2:C:184:ASP:OD2	2.21	0.41
2:C:317:ILE:CG2	2:C:327:ILE:HG21	2.50	0.41
2:D:16:LEU:CD1	2:D:336:LYS:HD3	2.50	0.41
2:D:35:VAL:O	2:D:68:LYS:HG2	2.20	0.41
2:D:73:HIS:C	2:D:75:ILE:H	2.23	0.41
2:D:107:GLU:OE1	2:D:116:ARG:HG2	2.19	0.41
2:D:129:VAL:HG12	2:D:131:ALA:H	1.85	0.41
2:D:297:ASN:HD21	2:D:299:MET:HE1	1.86	0.41
3:E:120:THR:OG1	3:E:122:GLU:HG3	2.21	0.41
4:F:57:LEU:HG	4:F:63:ASN:HA	2.01	0.41
3:H:15:PHE:HA	3:H:34:VAL:HG11	2.02	0.41
3:H:35:MET:HG2	3:H:69:PHE:CE1	2.56	0.41
1:A:80:PRO:HD2	1:A:93:THR:OG1	2.21	0.41
1:A:276:ARG:HH21	1:A:478:GLU:HB3	1.86	0.41
1:A:362:LEU:HD21	1:A:398:PHE:CZ	2.49	0.41
1:A:381:ASN:HB2	1:A:384:ALA:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:391:MET:O	1:A:616:SER:HB3	2.21	0.41
1:A:527:LEU:HA	1:A:530:ARG:HH21	1.86	0.41
1:A:563:GLN:HE22	1:A:571:LYS:CD	2.33	0.41
1:A:807:LEU:HB3	3:H:123:GLU:HG2	2.03	0.41
1:B:60:GLU:HG2	1:B:62:GLN:HG2	2.02	0.41
1:B:234:PHE:CE2	1:B:442:ILE:HD13	2.56	0.41
1:B:306:LEU:O	1:B:313:TYR:OH	2.39	0.41
1:B:362:LEU:HD13	1:B:431:ALA:N	2.35	0.41
1:B:366:VAL:N	1:B:378:MET:HE3	2.35	0.41
1:B:368:LYS:HE2	1:B:378:MET:HG3	2.02	0.41
1:B:425:PHE:HB3	1:B:604:PRO:CD	2.50	0.41
1:B:541:LEU:HB2	1:B:555:PHE:CE2	2.55	0.41
1:B:541:LEU:HD12	1:B:598:LEU:HD12	2.02	0.41
1:B:586:TYR:CE2	1:B:712:GLU:HG3	2.56	0.41
1:B:613:LEU:O	1:B:622:ALA:HA	2.20	0.41
1:B:797:ILE:HG12	3:E:116:GLY:CA	2.50	0.41
1:B:829:CYS:O	1:B:833:LEU:HG	2.21	0.41
2:C:4:GLU:HB2	2:C:6:THR:H	1.85	0.41
2:C:182:GLY:O	2:C:213:LYS:HE2	2.20	0.41
2:C:217:CYS:HA	2:C:254:ARG:O	2.21	0.41
2:D:37:ARG:N	2:D:65:LEU:HD22	2.35	0.41
2:D:80:ASP:O	2:D:83:GLU:HB2	2.21	0.41
2:D:153:LEU:HD13	2:D:299:MET:CE	2.50	0.41
2:D:153:LEU:HD13	2:D:299:MET:SD	2.60	0.41
2:D:275:HIS:CG	2:D:316:GLU:HB3	2.55	0.41
2:D:299:MET:CE	2:D:313:MET:HB3	2.51	0.41
2:D:315:LYS:HE3	2:D:315:LYS:HB3	1.88	0.41
3:E:92:LEU:HA	3:E:95:PHE:HB3	2.02	0.41
3:E:93:ARG:HA	3:E:93:ARG:CZ	2.49	0.41
3:E:93:ARG:HD3	3:E:99:GLY:HA2	2.01	0.41
3:E:139:ASN:OD1	3:E:142:GLU:N	2.31	0.41
4:G:116:PHE:CD1	4:G:154:ASN:HB3	2.55	0.41
1:A:10:GLU:OE2	1:A:137:ILE:HD13	2.20	0.41
1:A:53:LYS:HB2	1:A:56:GLU:CB	2.49	0.41
1:A:276:ARG:HA	1:A:279:ARG:O	2.20	0.41
1:A:290:PHE:CE2	1:A:435:PHE:CG	3.08	0.41
1:A:332:PHE:O	1:A:335:THR:HB	2.19	0.41
1:A:435:PHE:HA	1:A:438:LEU:HB3	2.02	0.41
1:A:740:ASN:OD1	1:A:759:ALA:HB2	2.21	0.41
1:B:325:ALA:O	1:B:326:GLN:HG2	2.21	0.41
1:B:366:VAL:H	1:B:378:MET:HE3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:544:GLU:HG3	1:B:555:PHE:CA	2.50	0.41
1:B:831:ALA:HA	1:B:834:LYS:HD2	2.03	0.41
2:C:47:MET:HB3	2:C:64:ILE:HD12	2.02	0.41
2:C:71:ILE:CD1	2:C:76:ILE:HG12	2.51	0.41
2:C:90:PHE:CD2	2:C:98:PRO:HB3	2.56	0.41
2:C:131:ALA:HB1	2:C:356:TRP:CD2	2.55	0.41
2:C:180:LEU:CD2	2:C:264:PRO:HG3	2.50	0.41
2:D:71:ILE:HG13	2:D:82:MET:SD	2.60	0.41
2:D:108:ALA:CB	2:D:159:VAL:HG11	2.50	0.41
2:D:132:MET:SD	2:D:357:ILE:HD13	2.61	0.41
2:D:140:LEU:HB3	2:D:339:VAL:O	2.21	0.41
3:E:15:PHE:CE2	3:E:26:ILE:HD13	2.55	0.41
3:E:31:CYS:HA	3:E:34:VAL:HB	2.01	0.41
4:F:37:PHE:HZ	4:F:46:GLY:H	1.68	0.41
3:H:113:VAL:O	3:H:118:LYS:NZ	2.45	0.41
1:A:79:ASN:CG	1:A:92:LEU:HB3	2.40	0.41
1:A:128:LYS:HE2	1:A:694:GLY:N	2.36	0.41
1:A:161:TYR:CB	1:A:193:TYR:HE2	2.33	0.41
1:A:163:SER:O	1:A:168:ARG:N	2.53	0.41
1:A:163:SER:HB2	1:A:171:GLN:CG	2.50	0.41
1:A:251:PHE:CE2	1:A:253:ARG:HB2	2.50	0.41
1:A:279:ARG:HA	1:A:279:ARG:HD3	1.89	0.41
1:A:359:VAL:O	1:A:362:LEU:HB2	2.21	0.41
1:A:376:ALA:O	1:A:403:LEU:HD22	2.21	0.41
1:A:398:PHE:O	1:A:402:ILE:HG13	2.21	0.41
1:A:528:ILE:CD1	1:A:583:ILE:HD13	2.50	0.41
1:A:537:VAL:HG21	1:A:583:ILE:CD1	2.51	0.41
1:A:666:GLN:O	1:A:669:LYS:HB2	2.20	0.41
1:A:696:LEU:CD1	1:A:701:VAL:HG21	2.49	0.41
1:A:708:ASN:HB2	1:A:710:VAL:HG23	2.02	0.41
1:A:728:GLN:HB2	1:A:731:ARG:HH21	1.84	0.41
1:A:767:TYR:HD2	1:A:774:ILE:CG2	2.33	0.41
1:A:834:LYS:HG3	4:G:144:GLU:CD	2.42	0.41
1:B:17:LYS:HE2	1:B:84:SER:O	2.21	0.41
1:B:44:PHE:O	1:B:63:GLU:HG3	2.21	0.41
1:B:45:GLU:O	1:B:47:ALA:N	2.54	0.41
1:B:89:MET:C	1:B:95:LEU:HD21	2.40	0.41
1:B:133:TYR:HA	1:B:154:TYR:CE2	2.56	0.41
1:B:173:ILE:HG22	1:B:175:CYS:SG	2.60	0.41
1:B:178:GLU:HA	1:B:470:GLU:OE2	2.20	0.41
1:B:293:LEU:HD12	1:B:293:LEU:HA	1.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:305:LEU:O	1:B:357:SER:OG	2.31	0.41
1:B:352:ILE:O	1:B:355:VAL:HB	2.21	0.41
1:B:446:VAL:HG13	1:B:450:LEU:HD12	2.03	0.41
1:B:496:THR:C	1:B:681:PHE:HZ	2.24	0.41
1:B:541:LEU:HD22	1:B:597:TRP:HB3	2.03	0.41
1:B:544:GLU:HG3	1:B:555:PHE:N	2.36	0.41
1:B:559:LEU:HD13	1:B:581:PHE:CD1	2.56	0.41
1:B:724:ARG:HG2	1:B:775:PHE:CG	2.56	0.41
1:B:736:ILE:H	3:E:94:VAL:HG11	1.86	0.41
1:B:789:ASP:HA	1:B:792:ILE:HD12	2.02	0.41
1:B:807:LEU:CD1	3:E:123:GLU:HA	2.50	0.41
2:C:20:GLY:O	2:C:94:LEU:HD11	2.20	0.41
2:C:72:GLU:O	2:C:75:ILE:HB	2.21	0.41
2:C:90:PHE:CZ	2:C:103:THR:HB	2.56	0.41
2:C:107:GLU:O	2:C:137:GLN:HB2	2.21	0.41
2:C:113:LYS:HZ1	2:C:368:SER:CB	2.33	0.41
2:C:123:MET:CG	2:C:132:MET:HE2	2.51	0.41
2:C:129:VAL:HG11	2:C:132:MET:HB2	2.03	0.41
2:C:138:ALA:HB3	2:C:163:VAL:HG23	2.02	0.41
2:C:164:PRO:HD2	2:C:175:ILE:HG12	2.03	0.41
2:C:253:GLU:HA	2:C:256:ARG:HD3	2.02	0.41
2:C:304:THR:HA	2:C:309:ILE:CG1	2.46	0.41
2:D:83:GLU:O	2:D:127:PHE:CZ	2.68	0.41
2:D:128:ASN:OD1	2:D:359:LYS:NZ	2.54	0.41
2:D:143:TYR:CD2	2:D:346:LEU:HD21	2.55	0.41
2:D:188:TYR:O	2:D:192:ILE:HG12	2.21	0.41
2:D:188:TYR:CD2	2:D:192:ILE:HD13	2.55	0.41
3:E:62:LYS:NZ	3:E:63:THR:O	2.35	0.41
3:E:93:ARG:NH2	3:E:102:THR:O	2.54	0.41
3:E:104:MET:O	3:E:107:GLU:N	2.53	0.41
4:F:123:ARG:HD2	4:F:123:ARG:HA	1.88	0.41
4:F:123:ARG:NH2	4:F:132:ARG:HH12	2.19	0.41
3:H:21:THR:OG1	3:H:23:ASP:OD1	2.39	0.41
3:H:31:CYS:O	3:H:34:VAL:HB	2.19	0.41
1:A:20:VAL:CG1	1:A:28:ASP:HB3	2.51	0.41
1:A:86:VAL:HB	1:A:91:GLU:OE1	2.21	0.41
1:A:93:THR:HA	1:A:782:ALA:HB3	2.02	0.41
1:A:120:PHE:N	1:A:120:PHE:CD1	2.87	0.41
1:A:249:GLY:N	1:A:271:LEU:HB2	2.19	0.41
1:A:524:CYS:SG	1:A:584:LEU:C	2.99	0.41
1:A:686:ILE:H	1:A:704:GLN:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:725:ILE:HB	1:A:776:PHE:CE2	2.56	0.41
1:A:799:PHE:HA	1:A:802:GLN:HG2	2.01	0.41
1:A:807:LEU:O	1:A:811:ALA:HB3	2.20	0.41
1:A:840:TRP:HA	1:A:840:TRP:HE3	1.86	0.41
1:B:24:LEU:HD12	1:B:24:LEU:HA	1.83	0.41
1:B:77:LYS:HD2	1:B:94:CYS:SG	2.60	0.41
1:B:92:LEU:HD21	1:B:103:ASN:HD21	1.86	0.41
1:B:220:LEU:CD2	1:B:452:LYS:HG3	2.43	0.41
1:B:238:LYS:HB3	1:B:285:ARG:N	2.21	0.41
1:B:291:TYR:CG	1:B:321:VAL:O	2.74	0.41
1:B:367:PHE:CZ	1:B:399:THR:HA	2.56	0.41
1:B:434:LYS:HA	1:B:625:TRP:NE1	2.35	0.41
1:B:685:ILE:HD12	1:B:685:ILE:N	2.36	0.41
1:B:734:TYR:CE2	1:B:737:LEU:HD12	2.56	0.41
2:C:144:ALA:CB	2:C:341:ILE:HB	2.51	0.41
2:C:252:ASN:ND2	2:C:256:ARG:HH11	2.19	0.41
1:A:28:ASP:CB	1:A:81:PRO:HD2	2.51	0.40
1:A:45:GLU:OE1	1:A:64:ASN:ND2	2.46	0.40
1:A:46:ALA:O	1:A:62:GLN:HB2	2.21	0.40
1:A:128:LYS:HE2	1:A:693:ALA:HB1	2.02	0.40
1:A:278:ILE:HB	1:A:315:PHE:CE2	2.57	0.40
1:A:344:PHE:CE2	1:A:442:ILE:HA	2.55	0.40
1:A:532:THR:HG21	2:D:353:GLN:CD	2.40	0.40
1:A:569:PHE:HE2	1:A:581:PHE:CD2	2.39	0.40
1:A:836:ARG:HG3	1:A:841:TRP:CE2	2.55	0.40
1:A:836:ARG:HG3	1:A:841:TRP:CD2	2.56	0.40
1:B:171:GLN:O	1:B:461:LEU:HA	2.22	0.40
1:B:178:GLU:CD	1:B:241:LYS:HB2	2.41	0.40
1:B:229:PRO:O	1:B:233:ALA:N	2.51	0.40
1:B:280:GLN:HE22	1:B:315:PHE:HB3	1.86	0.40
1:B:315:PHE:CD2	1:B:360:LEU:HA	2.55	0.40
1:B:336:LEU:HA	1:B:339:MET:HE2	2.03	0.40
1:B:563:GLN:HB3	1:B:571:LYS:HB2	2.03	0.40
1:B:612:LEU:O	1:B:616:SER:N	2.54	0.40
1:B:757:ILE:HG21	1:B:767:TYR:CD1	2.56	0.40
2:C:2:GLU:OE2	2:C:23:GLY:HA3	2.21	0.40
2:C:153:LEU:CD2	2:C:155:SER:HB2	2.52	0.40
2:C:192:ILE:HA	2:C:195:GLU:HB2	2.02	0.40
2:D:5:THR:O	2:D:7:ALA:N	2.54	0.40
2:D:11:ASP:HA	2:D:106:THR:HG21	2.04	0.40
2:D:54:VAL:HG11	2:D:85:ILE:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:107:GLU:HG3	2:D:111:ASN:ND2	2.36	0.40
2:D:192:ILE:HD12	2:D:256:ARG:CD	2.50	0.40
2:D:216:LEU:HD22	2:D:250:ILE:HD13	2.03	0.40
3:E:104:MET:HB2	3:E:107:GLU:H	1.86	0.40
3:E:108:ILE:HG13	3:E:112:LEU:HD11	2.02	0.40
4:G:99:GLU:OE1	4:G:163:LYS:HG2	2.21	0.40
1:A:12:PHE:O	1:A:132:ILE:HD13	2.21	0.40
1:A:278:ILE:HG22	1:A:359:VAL:HG13	2.02	0.40
1:A:291:TYR:HB3	1:A:321:VAL:O	2.20	0.40
1:A:302:ARG:HG2	1:A:307:LEU:CD1	2.50	0.40
1:A:348:GLU:HG3	1:A:620:PHE:CG	2.56	0.40
1:A:351:SER:OG	1:A:621:VAL:HG23	2.22	0.40
1:A:378:MET:SD	1:A:381:ASN:HB3	2.61	0.40
1:A:480:LEU:CD2	1:A:538:LEU:HD22	2.50	0.40
1:A:532:THR:HG21	2:D:353:GLN:OE1	2.21	0.40
1:A:764:PRO:CG	1:A:769:ILE:HG12	2.51	0.40
1:A:823:LYS:HG2	3:H:10:GLU:CG	2.52	0.40
1:B:111:GLY:O	1:B:113:ILE:HD12	2.20	0.40
1:B:271:LEU:HD21	1:B:485:THR:OG1	2.21	0.40
1:B:278:ILE:HD11	1:B:600:LYS:HA	2.03	0.40
1:B:339:MET:HB3	1:B:344:PHE:CB	2.46	0.40
2:C:28:ARG:HD3	2:C:94:LEU:HD23	2.03	0.40
2:C:54:VAL:CG2	2:C:84:LYS:HB3	2.49	0.40
2:C:116:ARG:HB3	2:C:370:VAL:HB	2.03	0.40
2:D:91:TYR:O	2:D:95:ARG:HA	2.21	0.40
2:D:113:LYS:HG3	2:D:371:HIS:CE1	2.56	0.40
3:E:103:VAL:HG22	3:E:140:TYR:HB3	2.03	0.40
4:F:117:ILE:HD11	4:F:121:HIS:HB3	2.04	0.40
1:A:13:LEU:HB2	1:A:132:ILE:CG2	2.51	0.40
1:A:85:LYS:HB2	1:A:106:GLU:OE1	2.21	0.40
1:A:114:TYR:OH	1:A:133:TYR:CE2	2.74	0.40
1:A:165:LEU:HD13	1:A:259:THR:C	2.40	0.40
1:A:173:ILE:N	1:A:461:LEU:HD21	2.36	0.40
1:A:232:GLU:HA	1:A:236:ASN:OD1	2.22	0.40
1:A:290:PHE:HA	1:A:356:VAL:HG11	2.04	0.40
1:A:291:TYR:HD1	1:A:310:PHE:HD1	1.63	0.40
1:A:347:GLU:HA	1:A:350:THR:HB	2.02	0.40
1:A:517:PHE:HB3	1:A:715:ARG:NH1	2.35	0.40
1:A:569:PHE:CE2	1:A:581:PHE:HB2	2.56	0.40
1:A:688:ASN:HB2	1:A:695:LYS:HZ1	1.84	0.40
1:A:809:ARG:NH2	3:H:148:LEU:HA	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:ILE:HG12	1:B:75:ILE:CG2	2.52	0.40
1:B:120:PHE:HE2	1:B:713:GLY:HA3	1.86	0.40
1:B:165:LEU:HA	1:B:168:ARG:HH11	1.87	0.40
1:B:292:TYR:HB3	1:B:332:PHE:CB	2.44	0.40
1:B:294:ILE:HD12	1:B:310:PHE:CA	2.43	0.40
1:B:359:VAL:O	1:B:362:LEU:HB2	2.22	0.40
1:B:407:ILE:HG21	2:C:25:ASP:HB2	2.03	0.40
1:B:610:THR:HG23	1:B:613:LEU:HD12	2.02	0.40
1:B:657:ARG:NH2	1:B:662:LEU:HD23	2.36	0.40
1:B:832:TYR:CD2	4:F:106:PHE:HZ	2.39	0.40
2:C:20:GLY:CA	2:C:28:ARG:HB3	2.52	0.40
2:C:99:GLU:CG	2:C:128:ASN:HB2	2.51	0.40
2:C:151:ILE:HG13	2:C:293:LEU:O	2.21	0.40
2:C:153:LEU:HD22	2:C:299:MET:SD	2.62	0.40
2:C:200:PHE:HD1	2:C:205:GLU:HB3	1.87	0.40
2:C:212:ILE:HG12	2:C:240:TYR:CB	2.51	0.40
2:C:219:VAL:O	2:C:219:VAL:HG12	2.20	0.40
2:C:236:LEU:HD23	2:C:254:ARG:NH1	2.35	0.40
2:C:275:HIS:HD2	2:C:320:LEU:HD11	1.86	0.40
2:D:38:PRO:HG2	2:D:41:GLN:HG3	2.03	0.40
2:D:189:LEU:HD11	2:D:250:ILE:CG2	2.51	0.40
2:D:261:LEU:HD22	2:D:303:THR:O	2.21	0.40
3:E:7:GLN:HG2	3:E:11:PHE:CE2	2.56	0.40
3:E:18:PHE:O	3:E:30:GLN:NE2	2.54	0.40
3:E:112:LEU:O	3:E:119:MET:HG3	2.22	0.40
4:G:47:PHE:CE1	4:G:79:PRO:HB2	2.57	0.40
3:H:109:ARG:HH11	3:H:128:VAL:HG21	1.87	0.40
1:A:8:ASP:HA	1:A:11:LYS:CB	2.51	0.40
1:A:161:TYR:HD1	1:A:256:PHE:CE2	2.39	0.40
1:A:245:SER:OG	1:A:247:ARG:NE	2.54	0.40
1:A:327:GLN:HG2	1:A:328:ASP:N	2.37	0.40
1:A:434:LYS:HG2	1:A:613:LEU:HD13	2.04	0.40
1:A:730:PHE:CD1	1:A:734:TYR:HE1	2.39	0.40
1:A:733:ARG:CB	1:A:788:ARG:HD3	2.52	0.40
1:A:735:GLU:OE1	1:A:736:ILE:N	2.55	0.40
1:B:76:GLN:OE1	1:B:96:ASN:HB3	2.21	0.40
1:B:78:MET:HE3	1:B:84:SER:HB3	2.03	0.40
1:B:119:LEU:HB2	1:B:497:MET:SD	2.61	0.40
1:B:293:LEU:HD23	1:B:357:SER:HB2	2.02	0.40
1:B:322:PRO:HB3	1:B:327:GLN:OE1	2.21	0.40
1:B:387:VAL:HG11	1:B:398:PHE:CZ	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:485:THR:O	1:B:489:LEU:HG	2.21	0.40
1:B:686:ILE:HG23	1:B:688:ASN:C	2.41	0.40
1:B:727:PHE:HD1	1:B:727:PHE:HA	1.75	0.40
1:B:800:GLN:CG	3:E:112:LEU:HD23	2.49	0.40
2:C:17:VAL:HG21	2:C:85:ILE:HD13	2.03	0.40
2:C:92:ASN:HA	2:C:95:ARG:NH2	2.37	0.40
2:C:217:CYS:HB3	2:C:306:TYR:CD1	2.57	0.40
2:C:297:ASN:OD1	2:C:299:MET:HE3	2.22	0.40
2:D:3:ASP:HA	2:D:353:GLN:OE1	2.22	0.40
2:D:109:PRO:HG2	2:D:161:HIS:ND1	2.37	0.40
2:D:238:LYS:HD3	2:D:254:ARG:HD2	2.02	0.40
3:E:28:TYR:HE2	3:E:58:GLU:HG2	1.86	0.40
3:E:128:VAL:C	3:E:132:GLU:HG3	2.42	0.40
4:F:96:THR:HG22	4:F:97:ASP:N	2.36	0.40
1:A:4:LYS:HE3	1:A:140:MET:CG	2.51	0.40
1:A:153:ILE:HD12	1:A:189:LYS:HG3	2.04	0.40
1:A:234:PHE:CE1	1:A:289:ILE:HG21	2.57	0.40
1:A:307:LEU:HD23	1:A:313:TYR:CE2	2.46	0.40
1:A:332:PHE:CZ	1:A:336:LEU:HD11	2.56	0.40
1:A:466:ILE:HG23	1:A:467:ALA:O	2.21	0.40
1:A:483:ASN:HD22	1:A:590:VAL:HG11	1.86	0.40
1:A:510:ILE:CG1	1:A:768:ARG:HG2	2.32	0.40
1:A:729:GLU:O	1:A:733:ARG:HB2	2.21	0.40
1:A:754:ILE:HA	1:A:757:ILE:HB	2.02	0.40
1:A:807:LEU:CD2	3:H:127:LEU:HB2	2.51	0.40
1:A:836:ARG:O	1:A:842:ARG:NH1	2.52	0.40
1:A:843:LEU:HG	4:F:63:ASN:O	2.21	0.40
1:B:33:LYS:HG2	1:B:77:LYS:HG3	2.02	0.40
1:B:258:VAL:H	1:B:456:GLN:HG2	1.87	0.40
1:B:290:PHE:HB3	1:B:316:LEU:HD21	2.03	0.40
1:B:337:GLU:O	1:B:341:ILE:HG13	2.21	0.40
1:B:469:PHE:HZ	1:B:586:TYR:HB3	1.85	0.40
1:B:560:ILE:HA	1:B:571:LYS:HG3	2.03	0.40
1:B:685:ILE:HA	1:B:704:GLN:HB3	2.03	0.40
1:B:702:LEU:HD21	1:B:711:LEU:HD13	2.03	0.40
1:B:764:PRO:HB3	1:B:768:ARG:NH1	2.35	0.40
1:B:841:TRP:O	1:B:845:THR:HB	2.20	0.40
2:C:104:LEU:HA	2:C:133:TYR:O	2.22	0.40
2:C:150:GLY:O	2:C:152:VAL:HG23	2.22	0.40
2:C:287:ILE:HG21	2:D:244:ASP:HB2	2.04	0.40
2:D:61:LYS:CG	2:D:64:ILE:HG12	2.49	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:119:MET:HB3	3:E:123:GLU:HB3	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	792/843 (94%)	655 (83%)	132 (17%)	5 (1%)	25 66
1	B	792/843 (94%)	653 (82%)	138 (17%)	1 (0%)	51 86
2	C	373/375 (100%)	319 (86%)	54 (14%)	0	100 100
2	D	373/375 (100%)	313 (84%)	60 (16%)	0	100 100
3	E	146/148 (99%)	120 (82%)	26 (18%)	0	100 100
3	H	146/148 (99%)	129 (88%)	17 (12%)	0	100 100
4	F	141/143 (99%)	133 (94%)	8 (6%)	0	100 100
4	G	141/143 (99%)	128 (91%)	13 (9%)	0	100 100
All	All	2904/3018 (96%)	2450 (84%)	448 (15%)	6 (0%)	50 81

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	812	PHE
1	B	534	PRO
1	A	813	ALA
1	A	535	PRO
1	A	537	VAL
1	A	534	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	703/741 (95%)	697 (99%)	6 (1%)	78 87
1	B	703/741 (95%)	694 (99%)	9 (1%)	69 81
2	C	318/318 (100%)	317 (100%)	1 (0%)	92 95
2	D	318/318 (100%)	314 (99%)	4 (1%)	69 81
3	E	127/127 (100%)	125 (98%)	2 (2%)	62 79
3	H	127/127 (100%)	125 (98%)	2 (2%)	62 79
4	F	125/125 (100%)	124 (99%)	1 (1%)	81 89
4	G	125/125 (100%)	124 (99%)	1 (1%)	81 89
All	All	2546/2622 (97%)	2520 (99%)	26 (1%)	77 86

All (26) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	256	PHE
1	A	420	LYS
1	A	454	LYS
1	A	619	LYS
1	A	695	LYS
1	A	753	CYS
1	B	74	ASP
1	B	112	LEU
1	B	116	TYR
1	B	315	PHE
1	B	371	ARG
1	B	454	LYS
1	B	493	PHE
1	B	767	TYR
1	B	812	PHE
2	C	192	ILE
2	D	206	ARG
2	D	249	THR
2	D	315	LYS

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Mol	Chain	Res	Type
2	D	326	LYS
3	E	49	LYS
3	E	78	LYS
4	F	44	ARG
4	G	132	ARG
3	H	123	GLU
3	H	133	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (86) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	22	ASN
1	A	64	ASN
1	A	96	ASN
1	A	186	ASN
1	A	266	ASN
1	A	288	HIS
1	A	312	ASN
1	A	320	HIS
1	A	326	GLN
1	A	327	GLN
1	A	349	GLN
1	A	361	GLN
1	A	389	HIS
1	A	475	ASN
1	A	483	ASN
1	A	486	ASN
1	A	494	ASN
1	A	513	ASN
1	A	561	GLN
1	A	563	GLN
1	A	606	ASN
1	A	661	GLN
1	A	728	GLN
1	A	751	GLN
1	A	765	ASN
1	A	771	GLN
1	A	802	GLN
1	A	828	ASN
1	B	3	GLN
1	B	18	ASN
1	B	26	GLN

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Mol	Chain	Res	Type
1	B	186	ASN
1	B	242	ASN
1	B	266	ASN
1	B	312	ASN
1	B	327	GLN
1	B	361	GLN
1	B	364	ASN
1	B	389	HIS
1	B	415	GLN
1	B	475	ASN
1	B	479	GLN
1	B	486	ASN
1	B	490	GLN
1	B	494	ASN
1	B	502	GLN
1	B	506	GLN
1	B	513	ASN
1	B	533	ASN
1	B	570	GLN
1	B	606	ASN
1	B	608	ASN
1	B	615	GLN
1	B	661	GLN
1	B	732	GLN
1	B	816	GLN
1	B	826	GLN
1	B	839	GLN
2	C	161	HIS
2	C	263	GLN
2	C	314	GLN
2	C	353	GLN
2	D	40	HIS
2	D	49	GLN
2	D	73	HIS
2	D	115	ASN
2	D	162	ASN
2	D	225	ASN
2	D	246	GLN
2	D	275	HIS
2	D	297	ASN
3	E	53	ASN
3	E	74	GLN

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Continued from previous page...

Mol	Chain	Res	Type
3	E	131	HIS
4	F	38	ASN
4	F	81	ASN
4	F	94	ASN
4	F	121	HIS
4	G	42	GLN
4	G	104	ASN
3	H	16	GLN
3	H	30	GLN
3	H	40	GLN
3	H	53	ASN
3	H	60	ASN
3	H	68	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

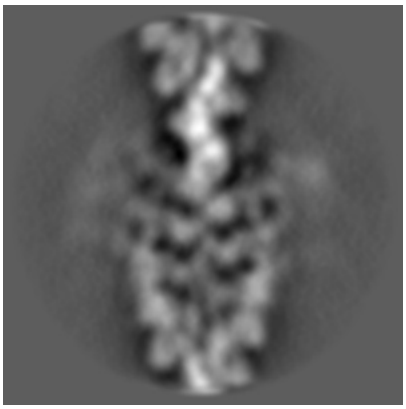
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-29646. These allow visual inspection of the internal detail of the map and identification of artifacts.

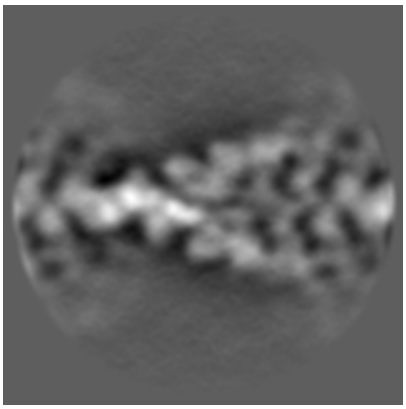
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

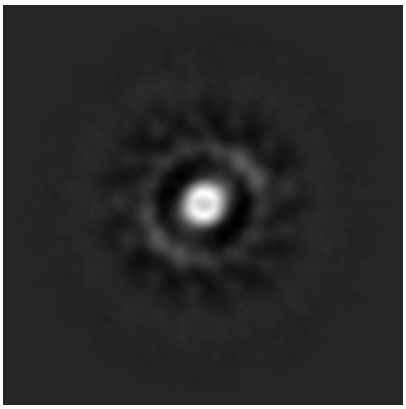
6.1.1 Primary map



X

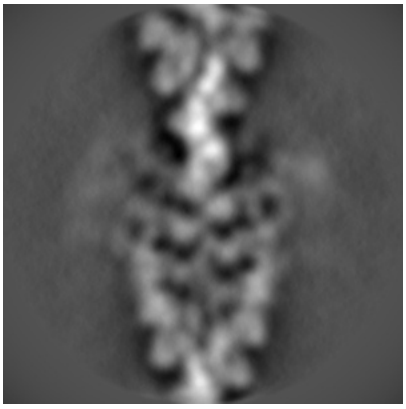


Y

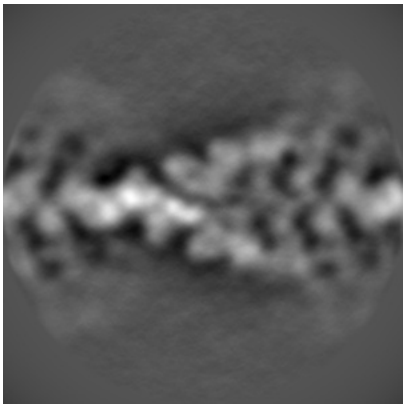


Z

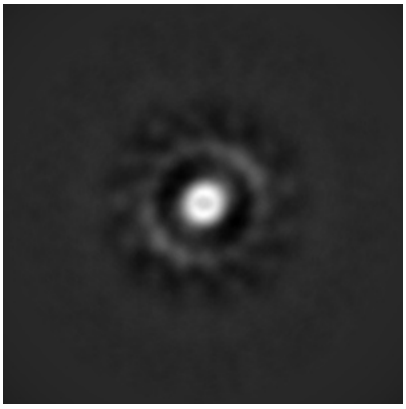
6.1.2 Raw map



X



Y



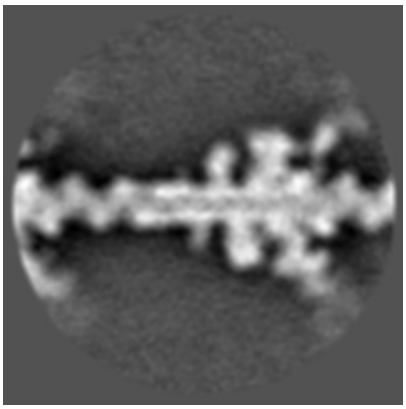
Z

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

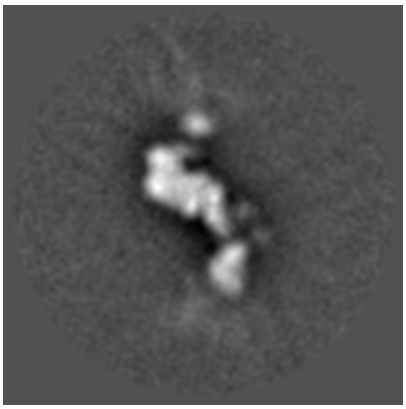
6.2 Central slices (i)

6.2.1 Primary map

X Index: 105

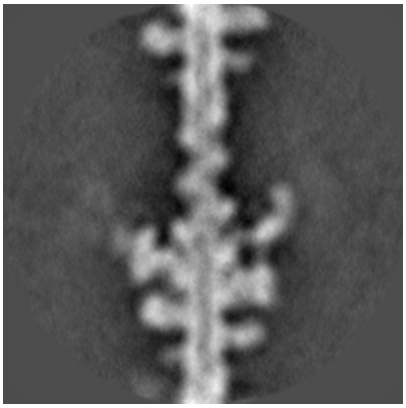


Y Index: 105

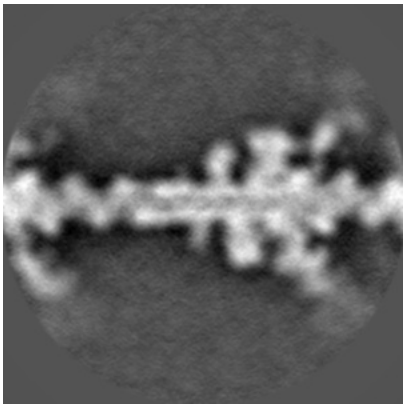


Z Index: 105

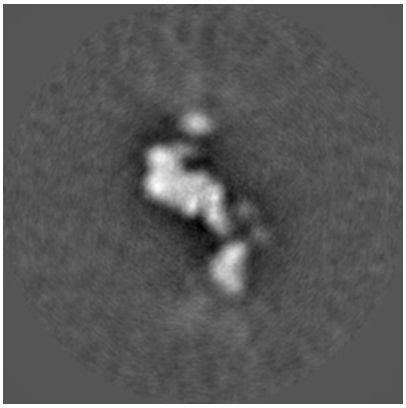
6.2.2 Raw map



X Index: 105



Y Index: 105

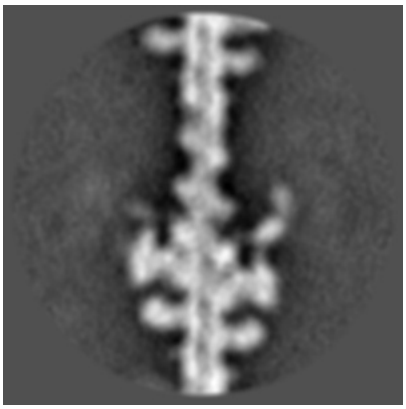


Z Index: 105

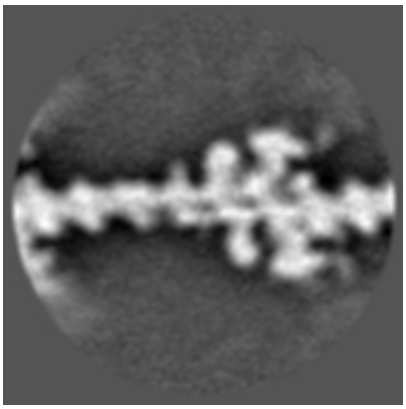
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

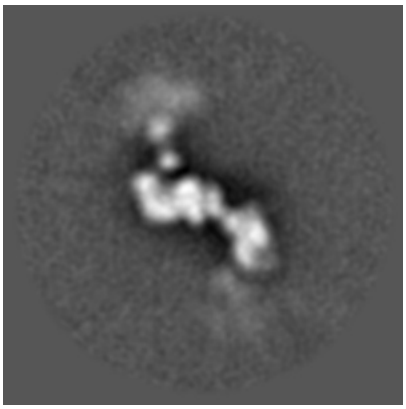
6.3.1 Primary map



X Index: 107

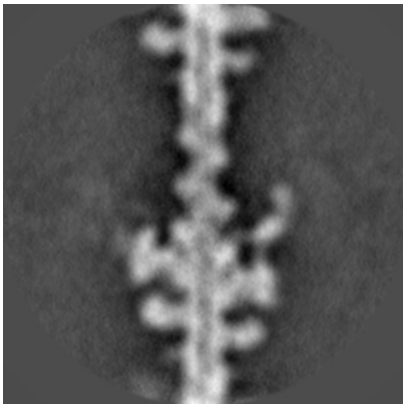


Y Index: 101

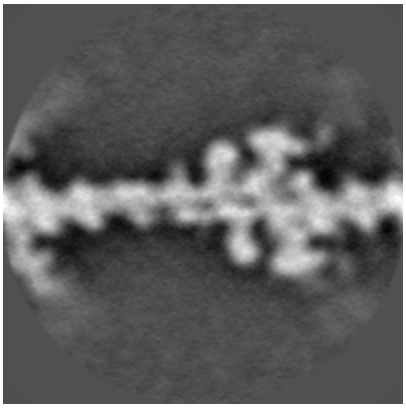


Z Index: 123

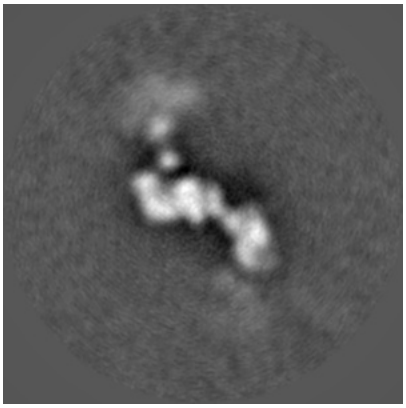
6.3.2 Raw map



X Index: 106



Y Index: 101

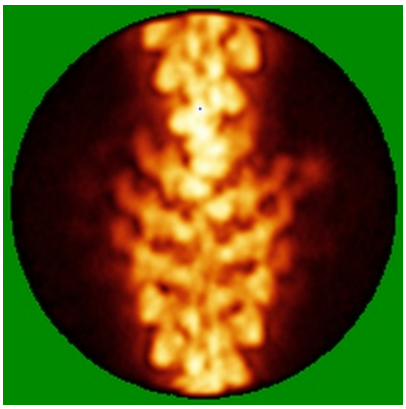


Z Index: 123

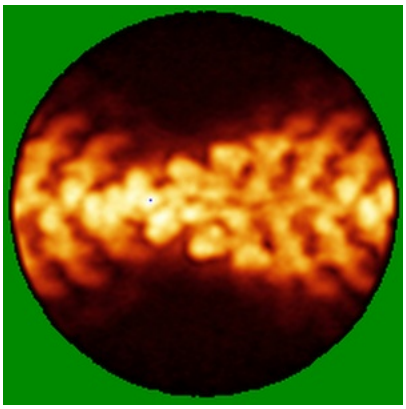
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

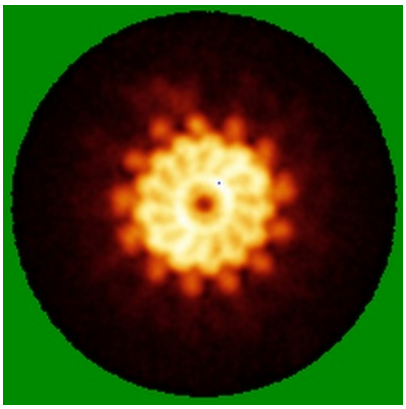
6.4.1 Primary map



X

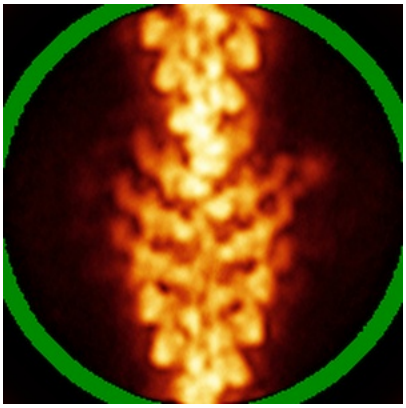


Y

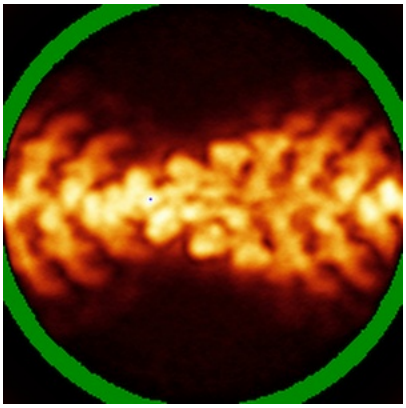


Z

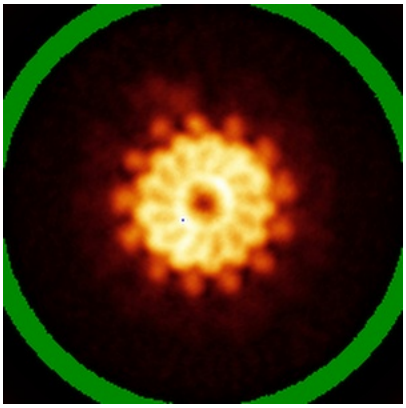
6.4.2 Raw map



X



Y

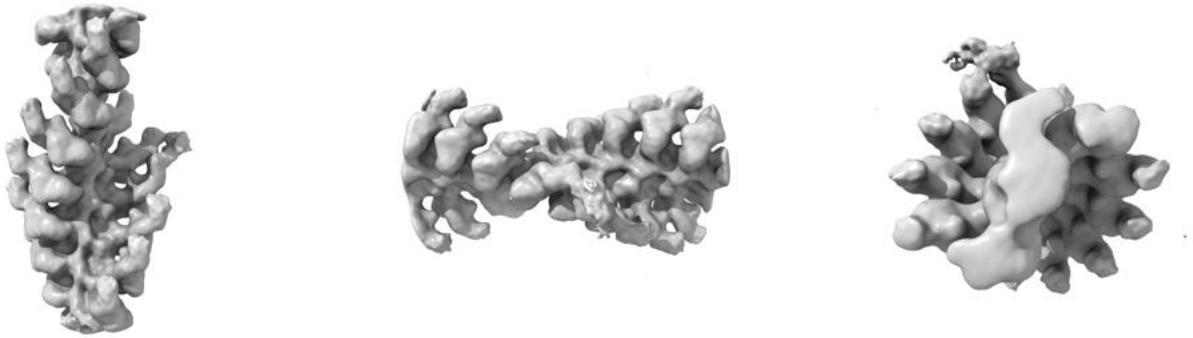


Z

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

6.5 Orthogonal surface views (i)

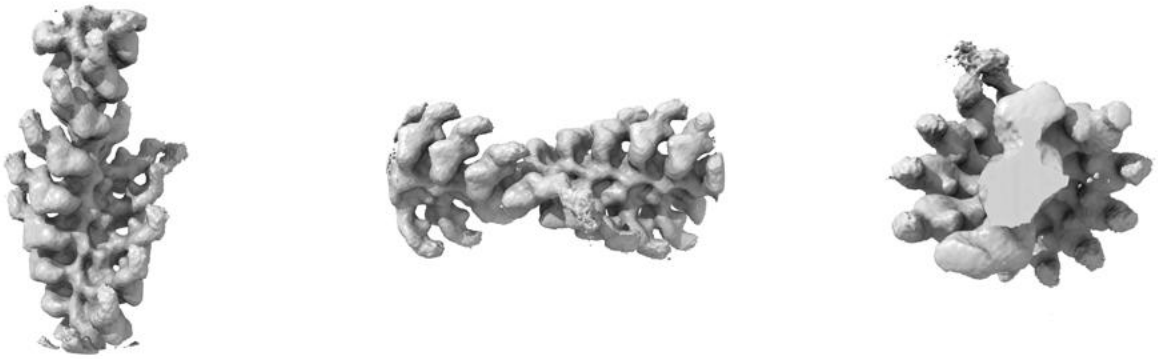
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.0472. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

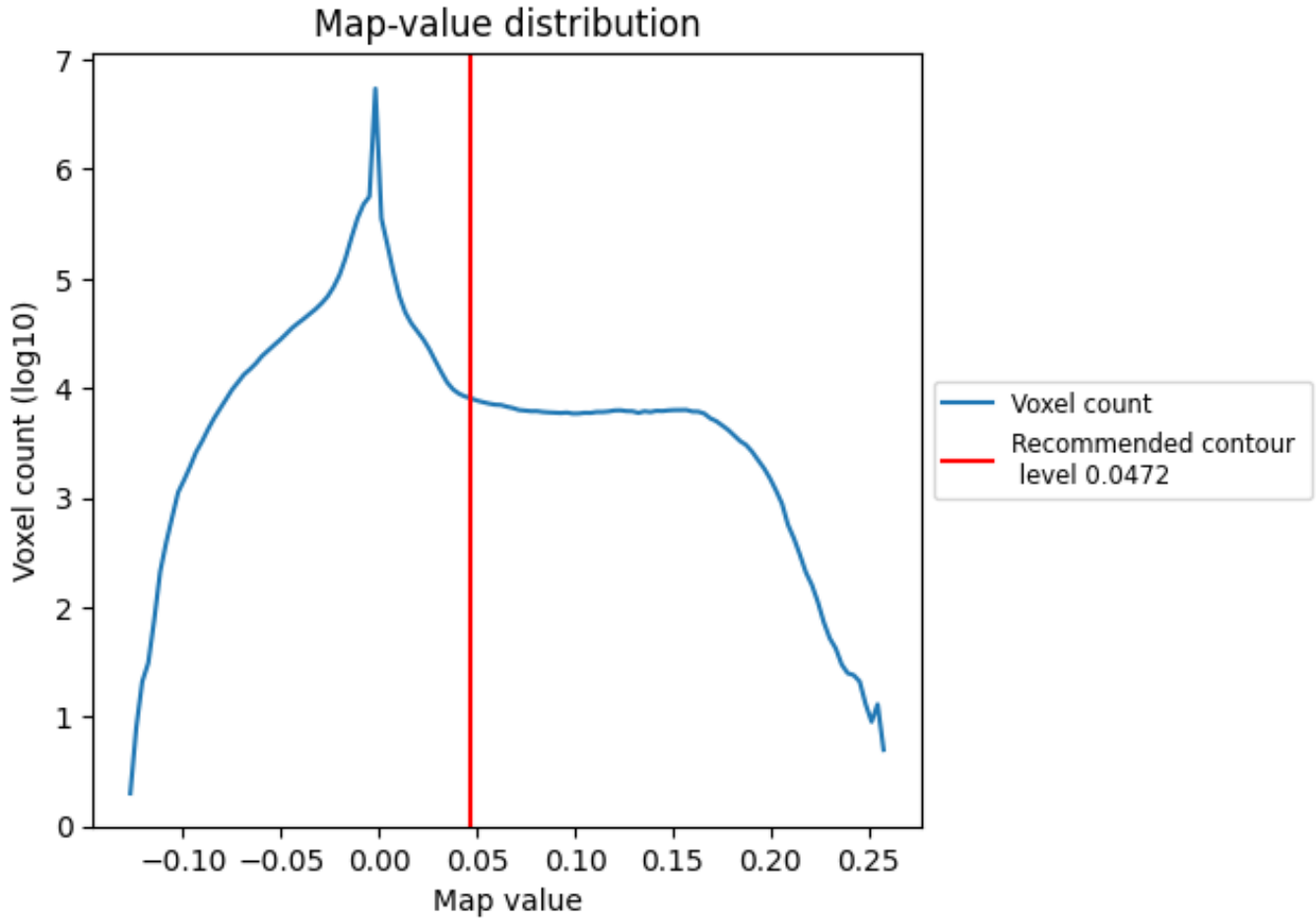
6.6 Mask visualisation (i)

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

7 Map analysis

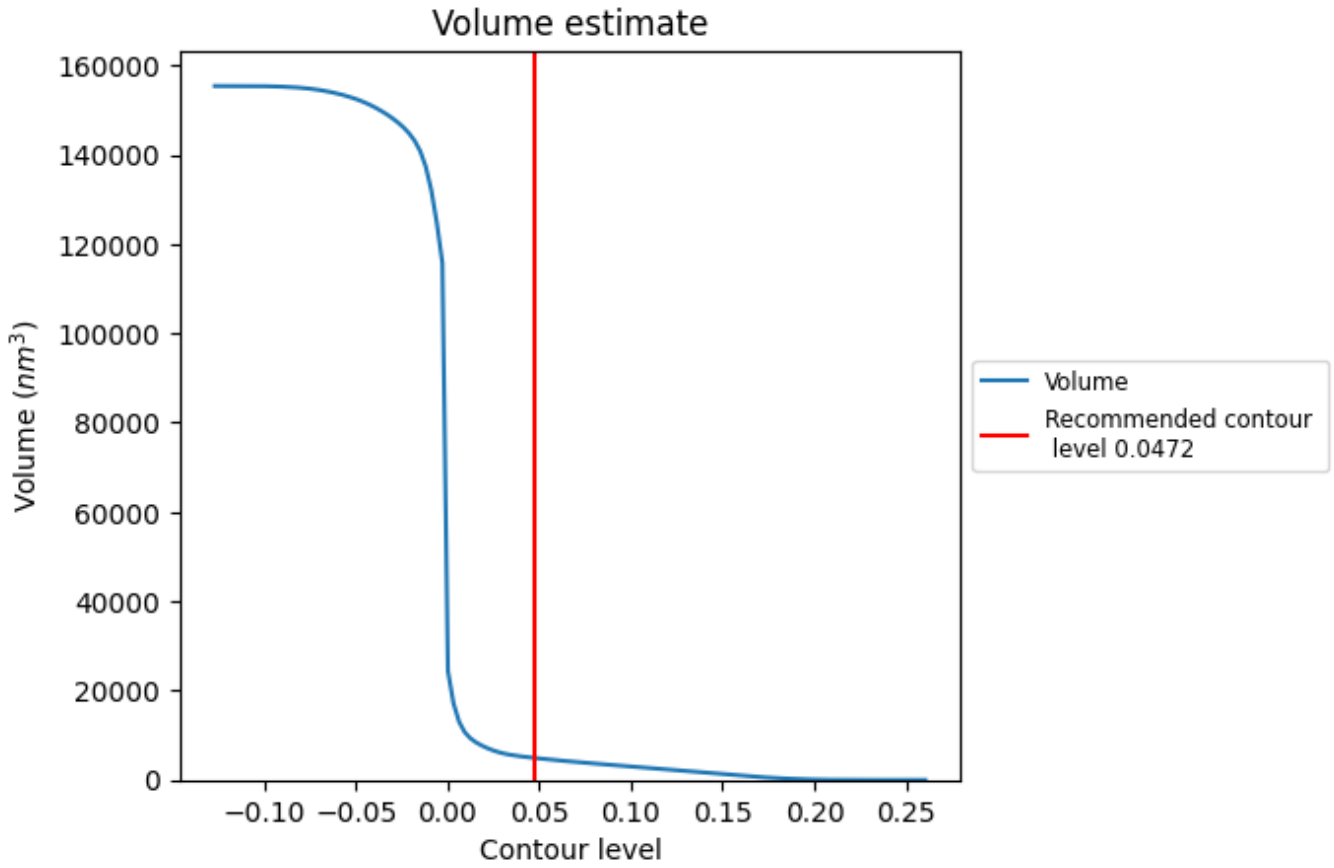
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

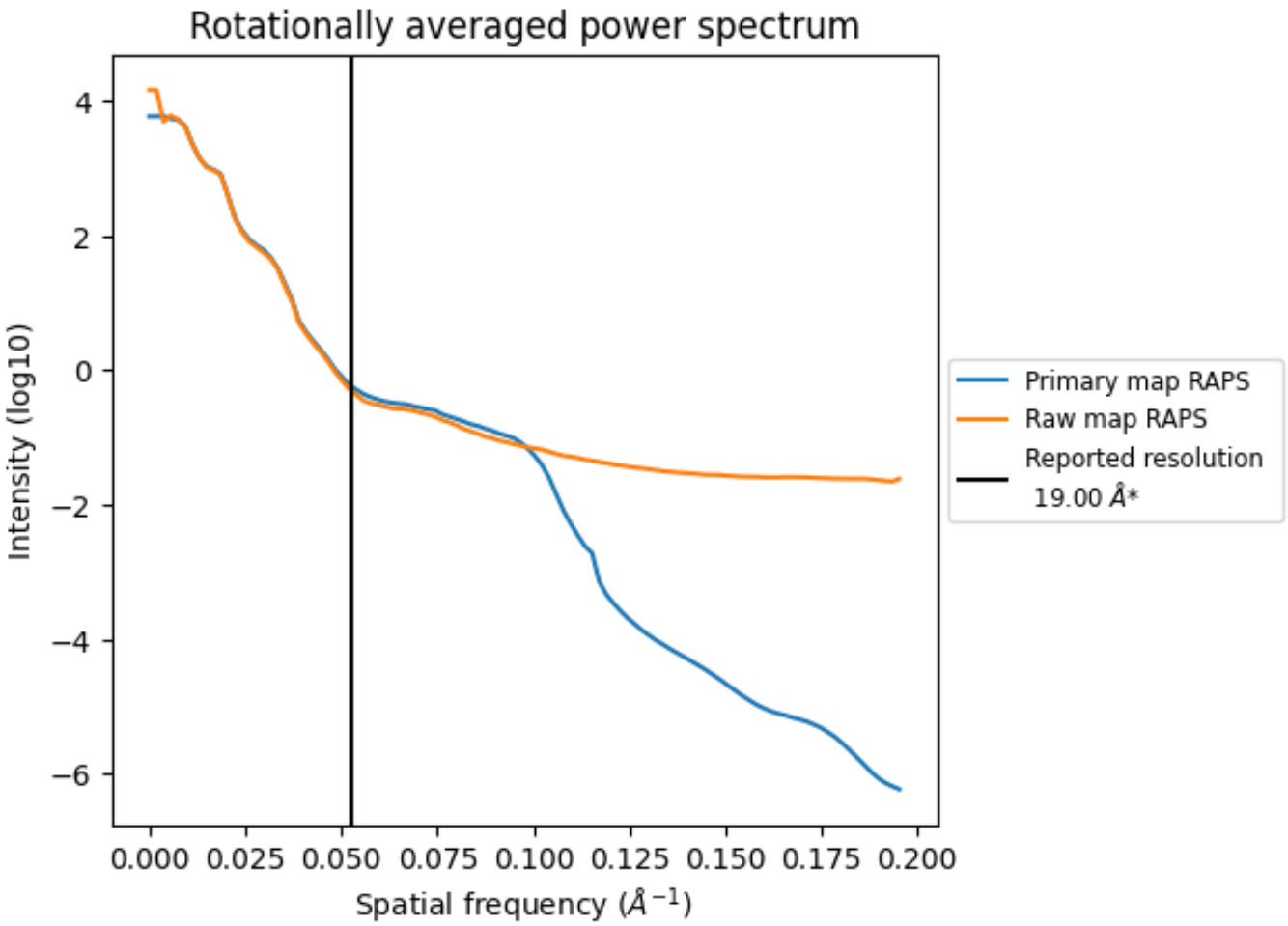
7.2 Volume estimate



The volume at the recommended contour level is 4944 nm^3; this corresponds to an approximate mass of 4466 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)

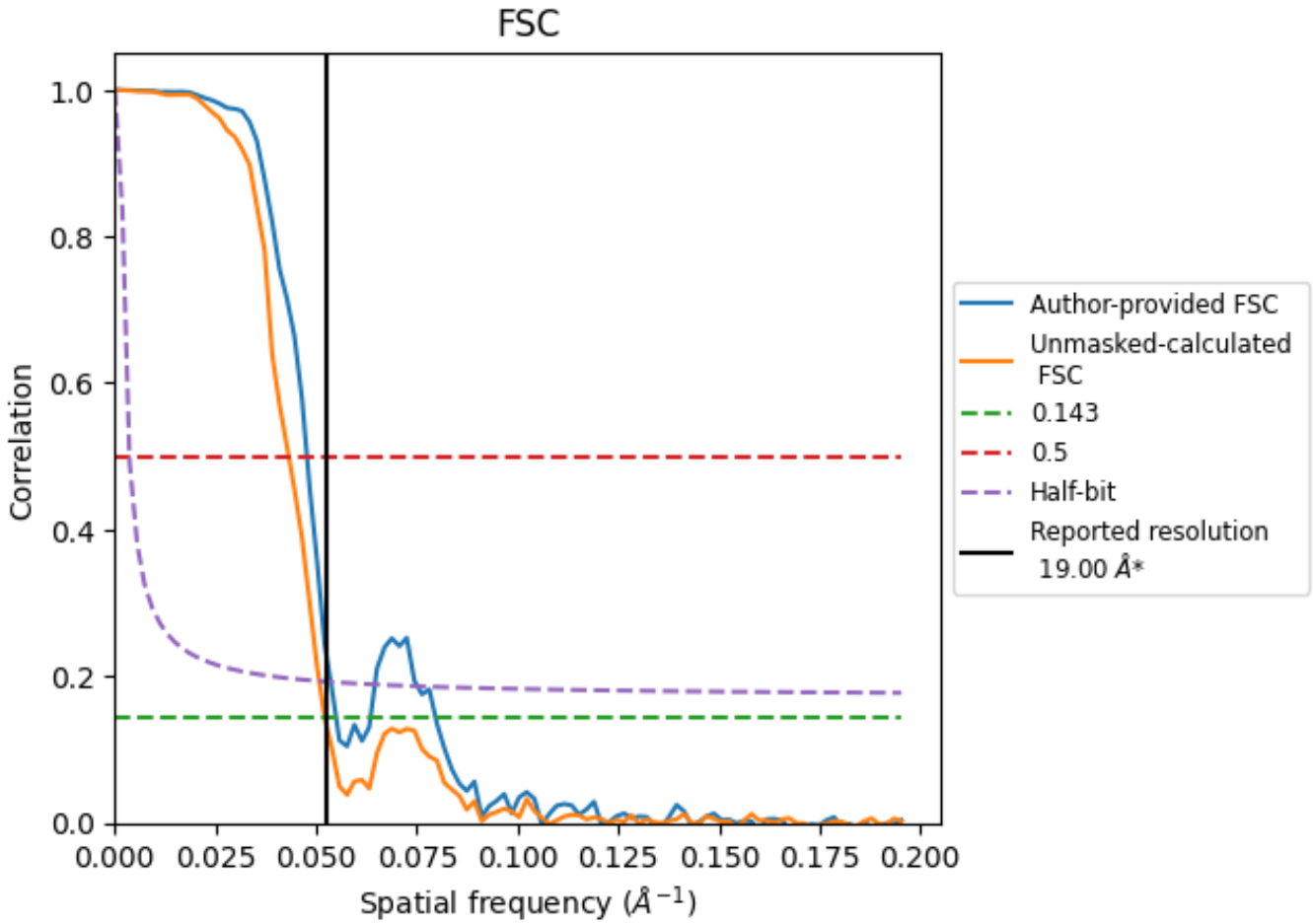


*Reported resolution corresponds to spatial frequency of 0.053 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.053 Å^{-1}

8.2 Resolution estimates (i)

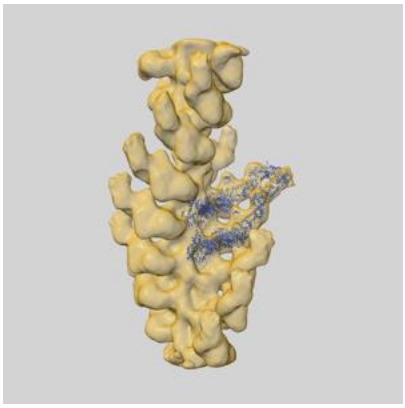
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	19.00	-	-
Author-provided FSC curve	18.18	20.96	18.62
Unmasked-calculated*	19.19	23.15	19.69

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

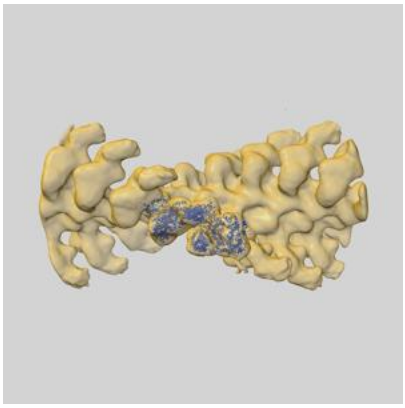
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-29646 and PDB model 8SYF. Per-residue inclusion information can be found in section 3 on page 5.

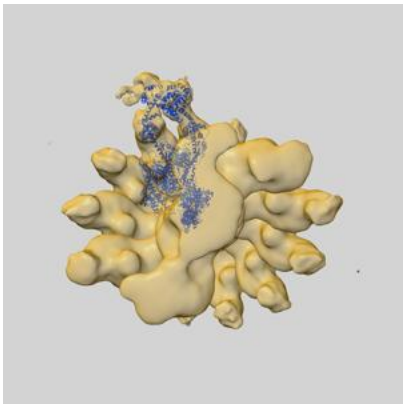
9.1 Map-model overlay



X



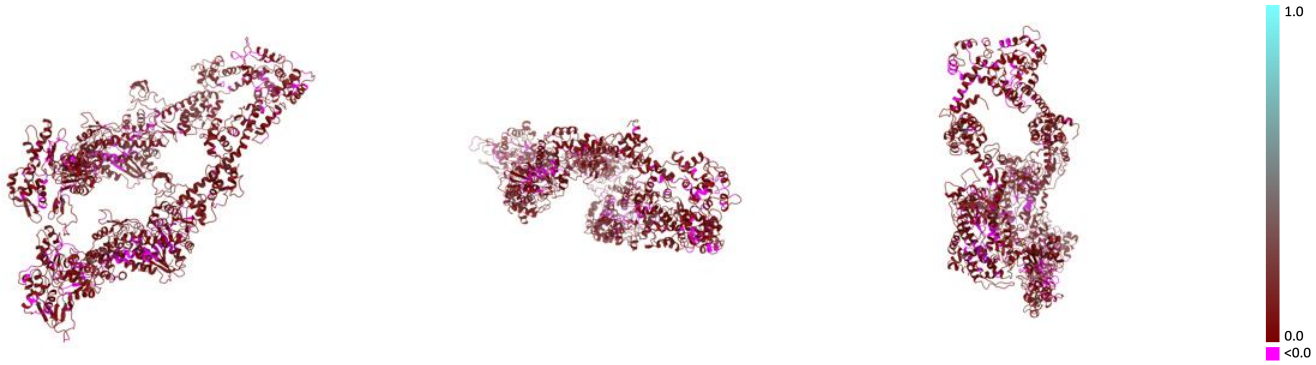
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0472 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.

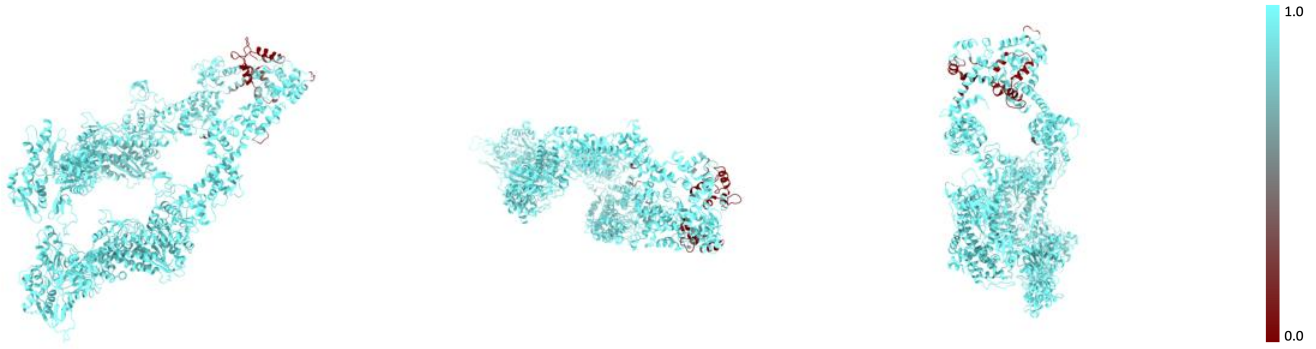
9.2 Q-score mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according 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.

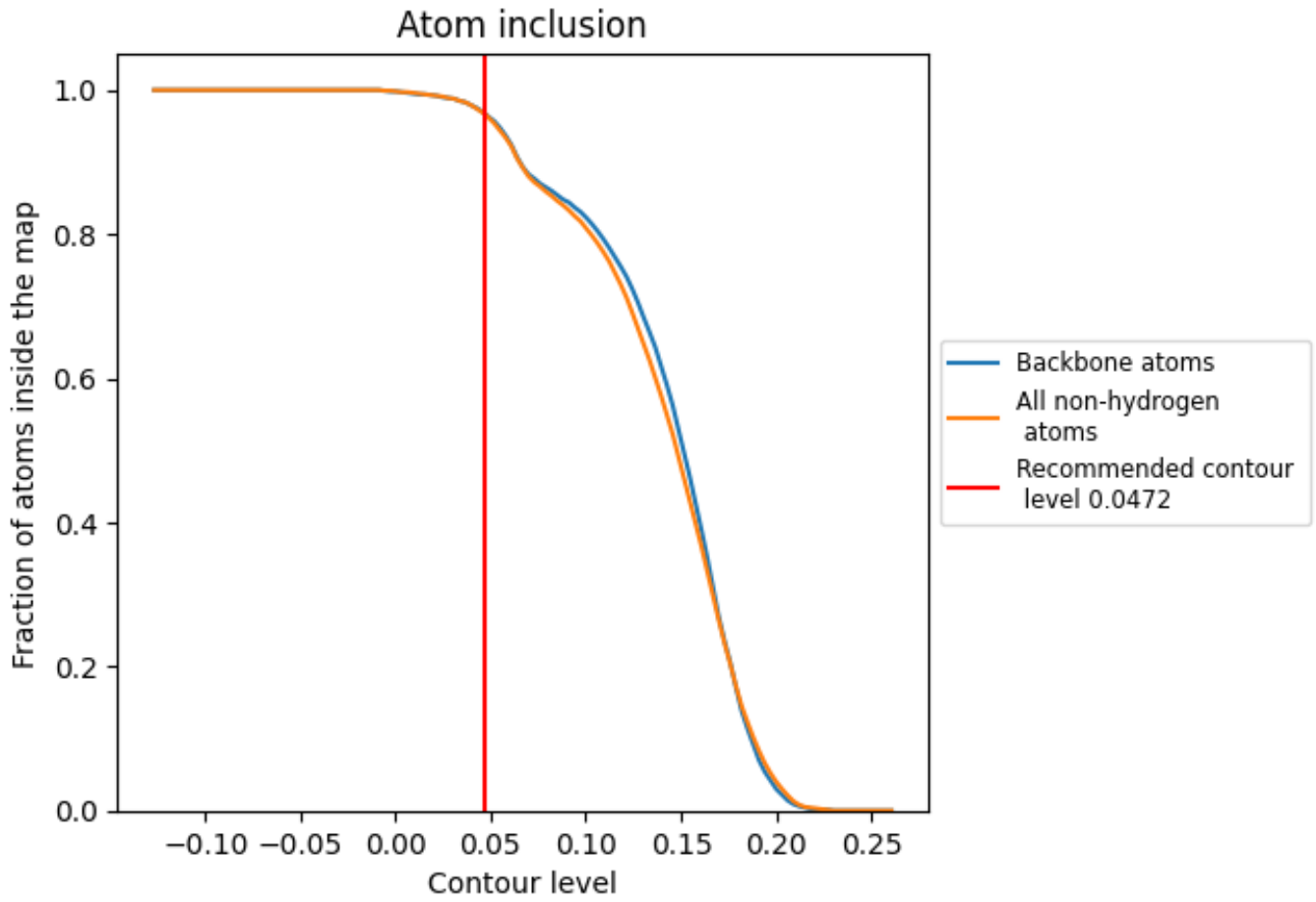
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0472).

9.4 Atom inclusion (i)



At the recommended contour level, 97% of all backbone atoms, 97% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.0472) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9660	0.0800
A	0.9950	0.0810
B	1.0000	0.0810
C	1.0000	0.0740
D	1.0000	0.0790
E	0.9800	0.0890
F	0.9160	0.0870
G	0.4470	0.0570
H	0.9970	0.1000