



Full wwPDB EM Validation Report ⓘ

Apr 13, 2025 – 07:10 am BST

PDB ID : 8RRH / pdb_00008rrh
EMDB ID : EMD-19459
Title : The human prohibitin complex
Authors : Lange, F.; Ratz, M.; Dohrke, J.N.; Wenzel, D.; Riedel, D.; Ilgen, P.; Jakobs, S.
Deposited on : 2024-01-22
Resolution : 16.30 Å(reported)
Based on initial model : .

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.dev117
MolProbity : 4.02b-467
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.42

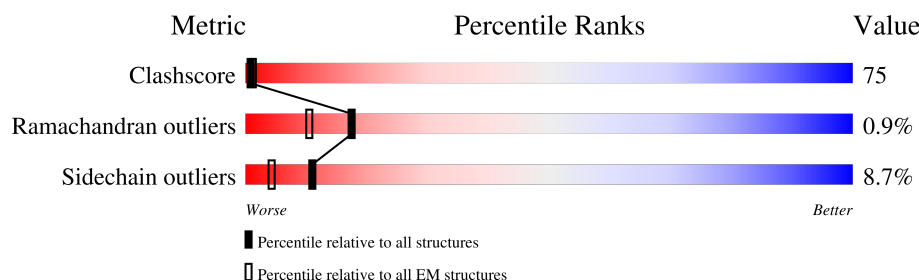
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 16.30 Å.

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




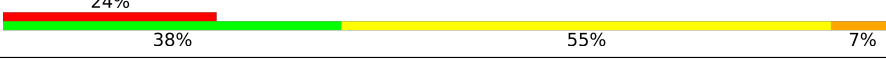
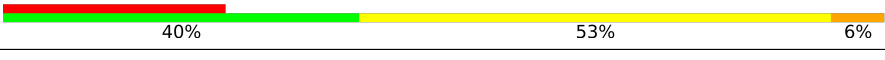
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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

Mol	Chain	Length	Quality of chain
1	A	272	<div> <div>16%</div> <div>38%</div> <div>56%</div> <div>6%</div> </div>
1	C	272	<div> <div>18%</div> <div>42%</div> <div>50%</div> <div>7%</div> </div>
1	E	272	<div> <div>14%</div> <div>36%</div> <div>58%</div> <div>6%</div> </div>
1	G	272	<div> <div>18%</div> <div>39%</div> <div>53%</div> <div>8%</div> </div>
1	I	272	<div> <div>18%</div> <div>32%</div> <div>62%</div> <div>6%</div> </div>
1	K	272	<div> <div>18%</div> <div>37%</div> <div>59%</div> <div>.</div> </div>
2	B	299	<div> <div>25%</div> <div>41%</div> <div>53%</div> <div>6%</div> </div>
2	D	299	<div> <div>25%</div> <div>41%</div> <div>49%</div> <div>9%</div> </div>

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Mol	Chain	Length	Quality of chain
2	F	299	
2	H	299	
2	J	299	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 24343 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 Prohibitin 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	C	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	E	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	G	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	I	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		
1	K	272	Total	C	N	O	S	0	0
			2103	1331	370	400	2		

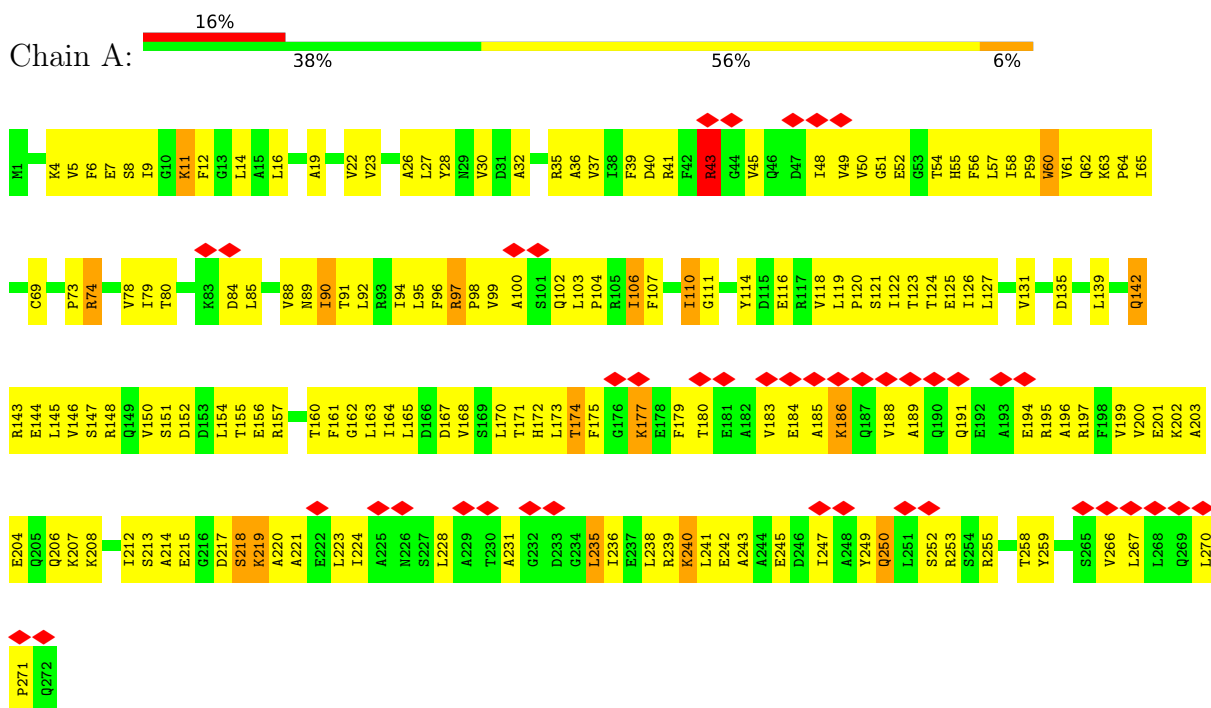
- Molecule 2 is a protein called Prohibitin-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
2	D	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
2	F	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
2	H	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		
2	J	299	Total	C	N	O	S	0	0
			2345	1477	428	435	5		

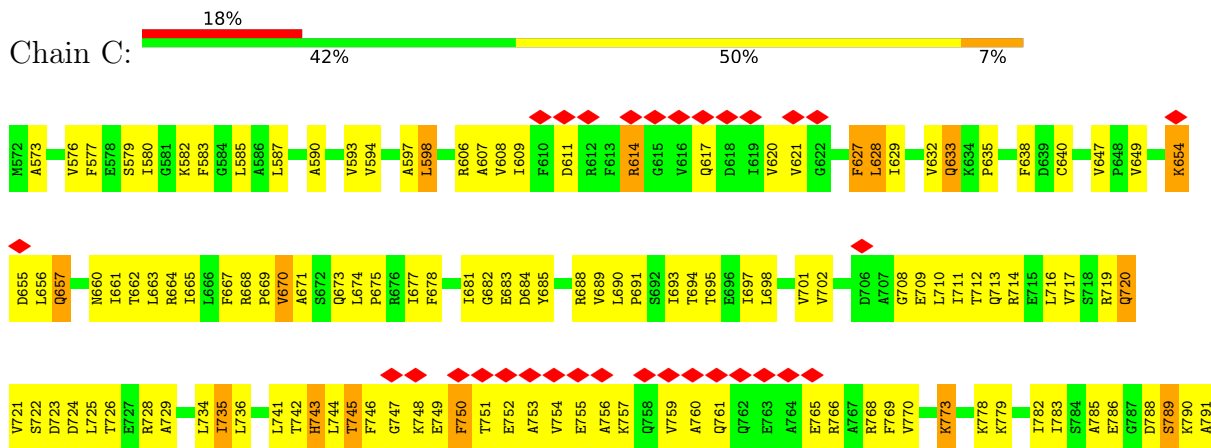
3 Residue-property plots

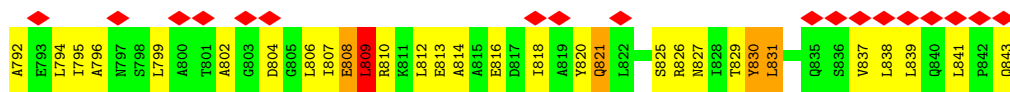
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: Prohibitin 1

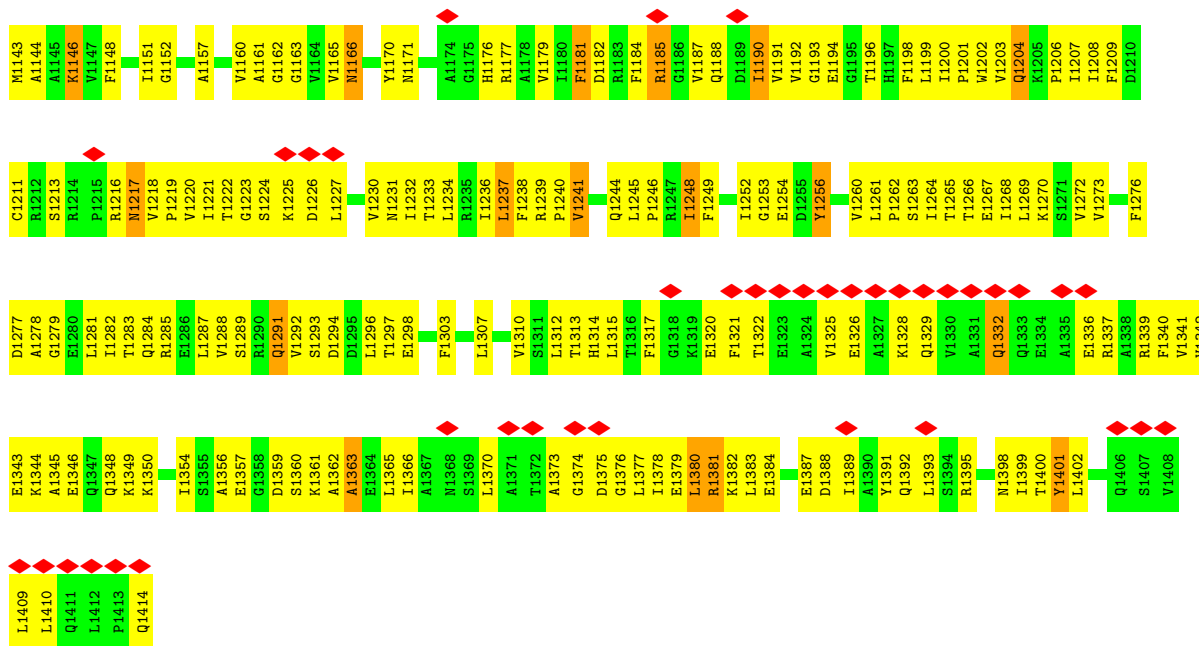
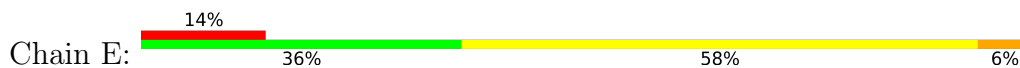


• Molecule 1: Prohibitin 1

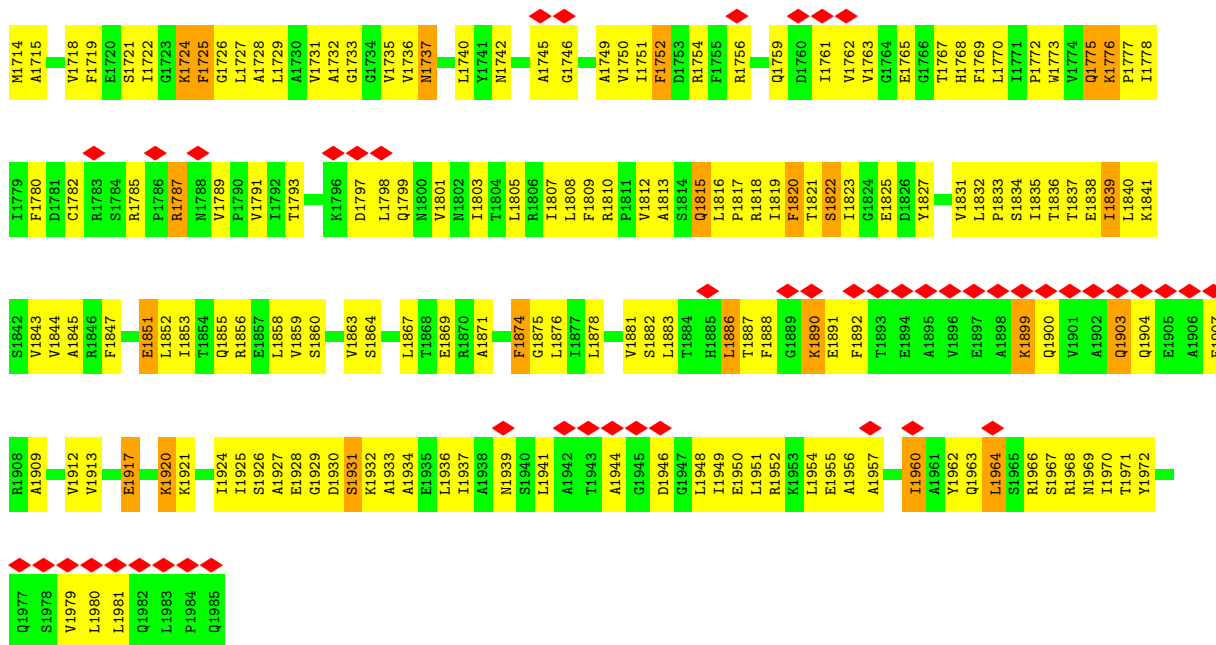




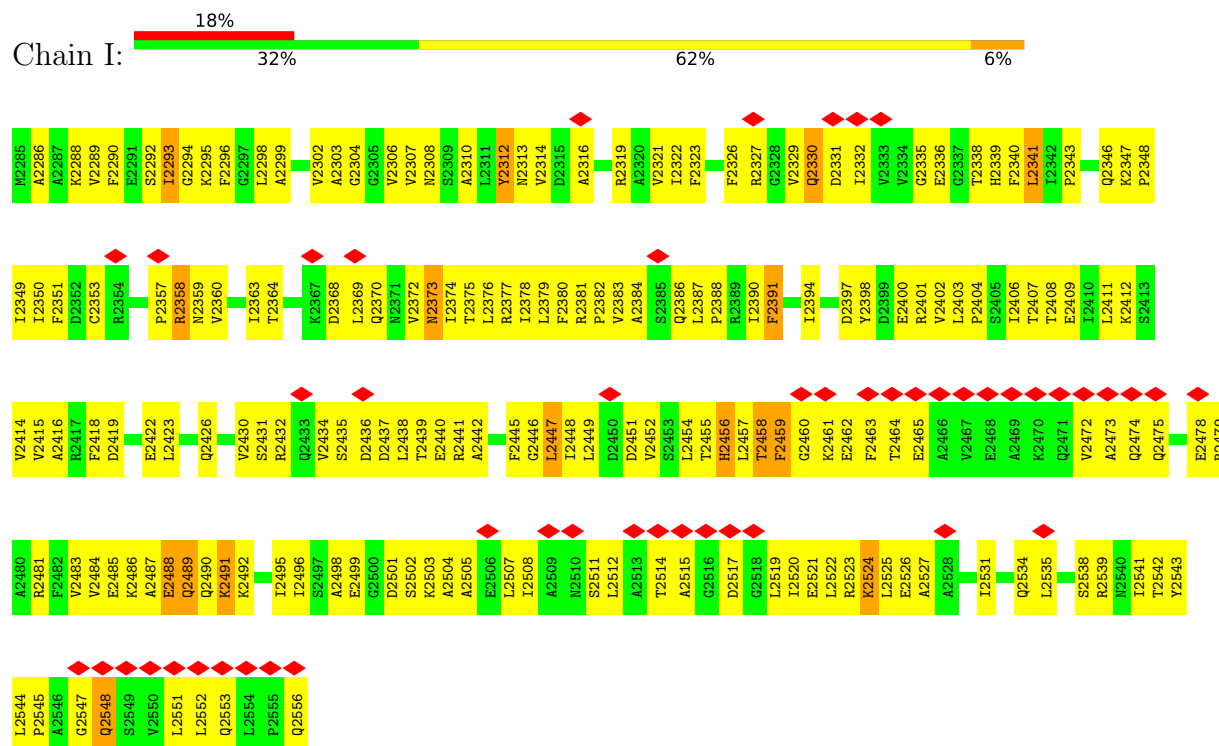
• Molecule 1: Prohibitin 1

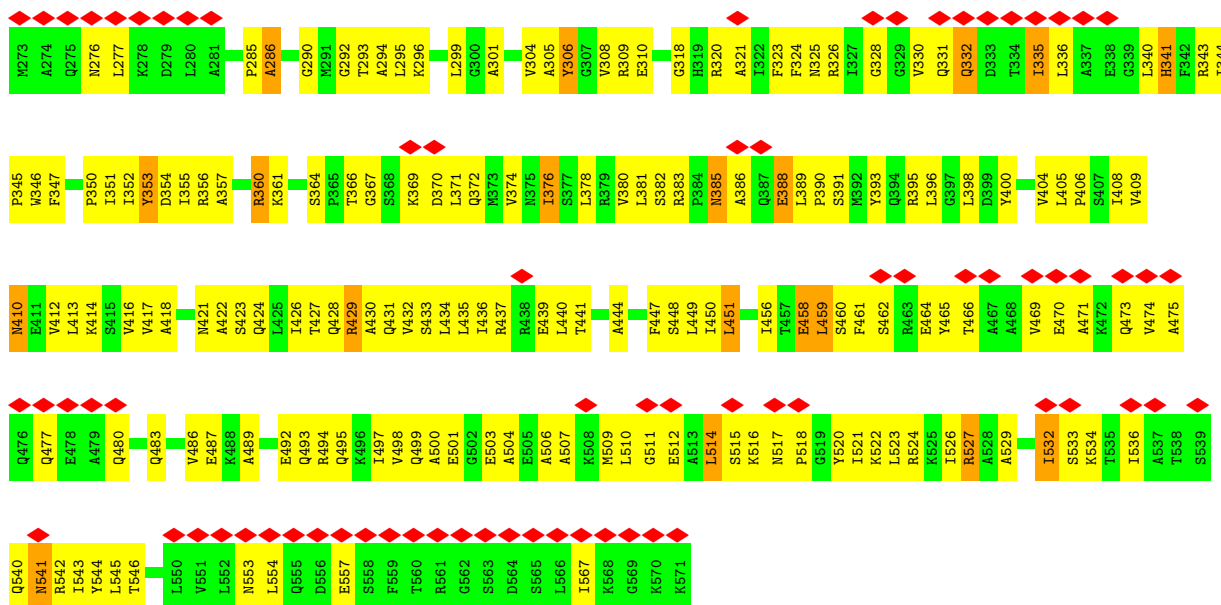


• Molecule 1: Prohibitin 1

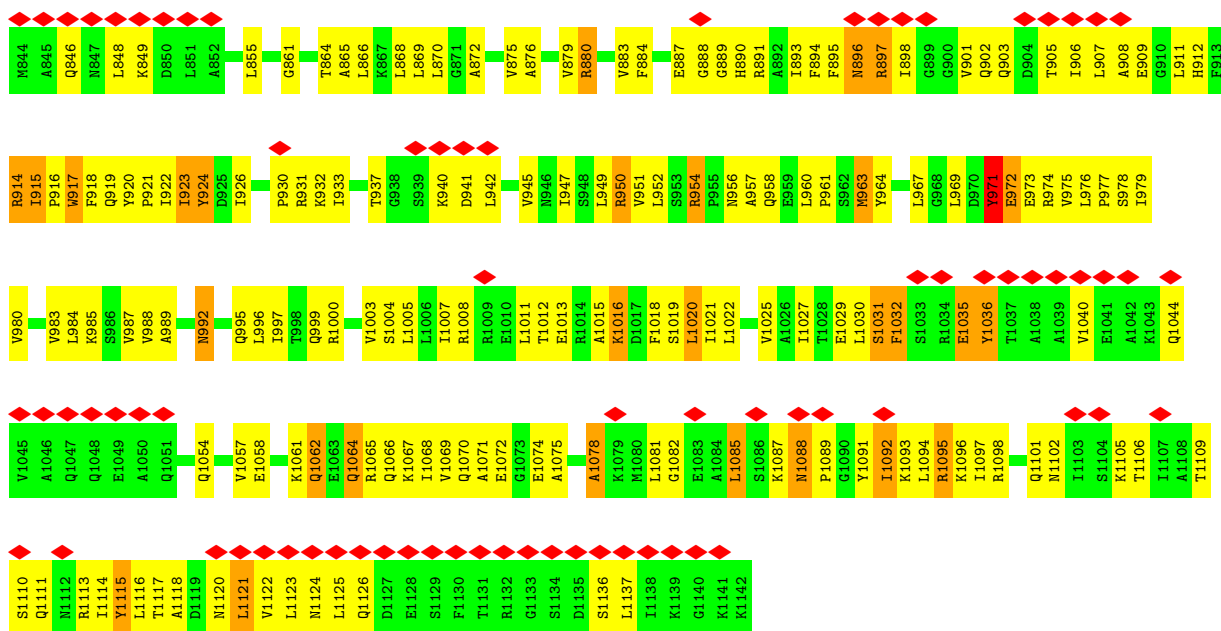


- Molecule 1: Prohibitin 1



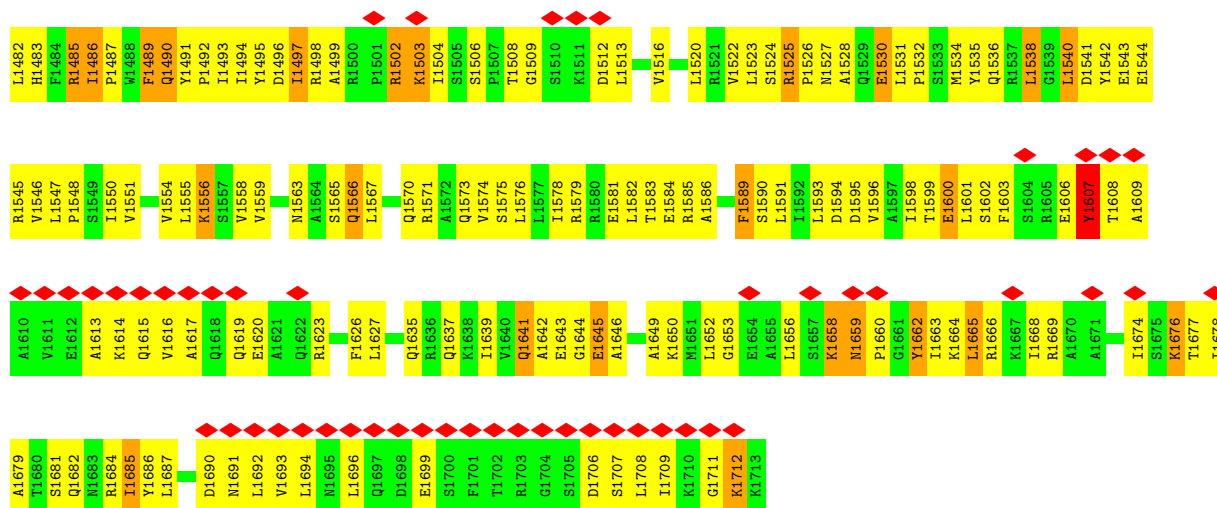


• Molecule 2: Prohibitin-2

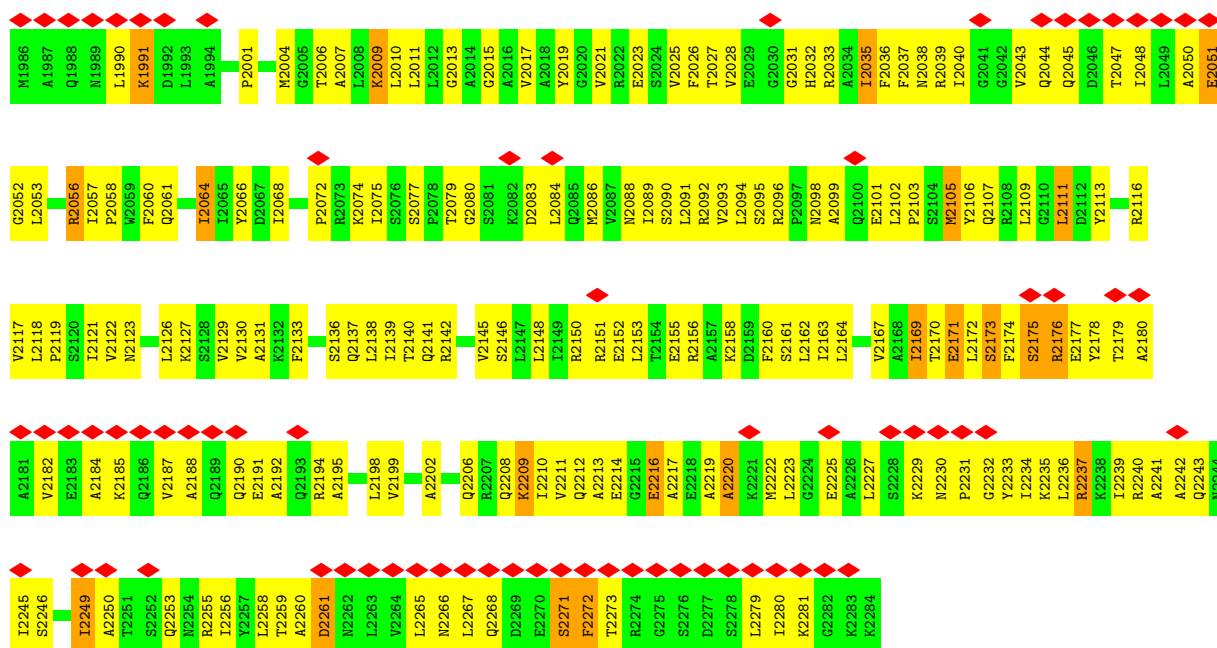


• Molecule 2: Prohibitin-2

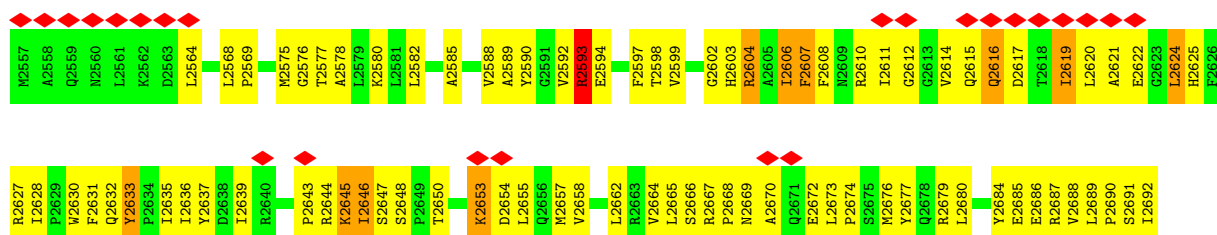


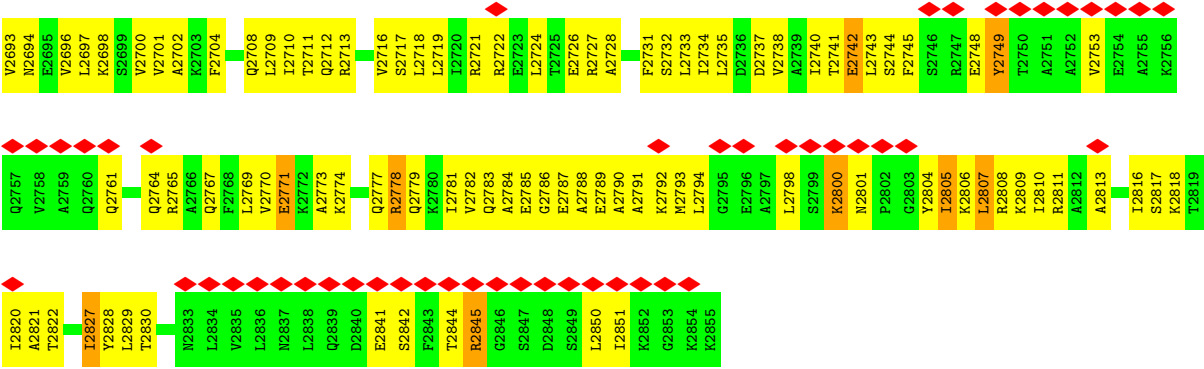


• Molecule 2: Prohibitin-2



• Molecule 2: Prohibitin-2





4 Experimental information

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C11	Depositor
Number of subtomograms used	817	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	120	Depositor
Minimum defocus (nm)	2500	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	42000	Depositor
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.437	Depositor
Minimum map value	-0.322	Depositor
Average map value	0.016	Depositor
Map value standard deviation	0.090	Depositor
Recommended contour level	0.075	Depositor
Map size (Å)	300.0, 300.0, 300.0	wwPDB
Map dimensions	120, 120, 120	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.5, 2.5, 2.5	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	0.99	0/2133	1.08	0/2887
1	C	1.00	0/2133	1.12	4/2887 (0.1%)
1	E	0.99	0/2133	1.09	1/2887 (0.0%)
1	G	1.01	1/2133 (0.0%)	2.72	11/2887 (0.4%)
1	I	0.99	0/2133	1.06	1/2887 (0.0%)
1	K	0.99	0/2133	1.09	1/2887 (0.0%)
2	B	1.00	0/2376	1.09	1/3198 (0.0%)
2	D	1.01	0/2376	1.09	2/3198 (0.1%)
2	F	1.01	0/2376	1.11	3/3198 (0.1%)
2	H	1.01	0/2376	1.09	1/3198 (0.0%)
2	J	1.01	0/2376	1.11	2/3198 (0.1%)
All	All	1.00	1/24678 (0.0%)	1.32	27/33312 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	I	0	1
1	K	0	1
2	D	0	1
2	J	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	G	1874	PHE	CB-CG	5.93	1.61	1.51

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	1874	PHE	CZ-CE2-CD2	-78.03	26.47	120.10
1	G	1874	PHE	CG-CD2-CE2	-62.22	52.35	120.80
1	G	1874	PHE	CB-CG-CD2	43.76	151.43	120.80
1	G	1874	PHE	CD1-CE1-CZ	-39.29	72.95	120.10
1	G	1874	PHE	CE1-CZ-CE2	-38.42	50.84	120.00
1	G	1874	PHE	CD1-CG-CD2	-34.69	73.20	118.30
1	G	1874	PHE	CG-CD1-CE1	-33.29	84.18	120.80
1	G	1874	PHE	CB-CG-CD1	20.78	135.35	120.80
1	G	1931	SER	N-CA-CB	7.94	122.41	110.50
2	F	1607	TYR	CB-CA-C	-7.29	95.81	110.40
1	E	1363	ALA	CB-CA-C	-6.99	99.62	110.10
2	D	1078	ALA	CB-CA-C	-6.38	100.53	110.10
2	H	2220	ALA	CB-CA-C	-6.33	100.61	110.10
1	C	750	PHE	CB-CA-C	-6.27	97.87	110.40
2	D	971	TYR	CB-CG-CD2	-5.92	117.44	121.00
1	G	1820	PHE	N-CA-CB	5.70	120.85	110.60
1	I	2312	TYR	N-CA-CB	5.69	120.85	110.60
1	K	2969	TYR	CB-CG-CD2	-5.69	117.59	121.00
1	C	745	THR	C-N-CA	5.68	135.90	121.70
2	B	353	TYR	CA-CB-CG	-5.55	102.85	113.40
2	J	2805	ILE	CB-CA-C	-5.28	101.04	111.60
2	F	1658	LYS	C-N-CA	5.26	134.85	121.70
1	C	809	LEU	N-CA-CB	5.25	120.90	110.40
2	F	1662	TYR	CB-CG-CD2	-5.20	117.88	121.00
1	G	1931	SER	CB-CA-C	-5.17	100.27	110.10
2	J	2607	PHE	CB-CA-C	-5.07	100.27	110.40
1	C	808	GLU	C-N-CA	-5.05	109.08	121.70

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	174	THR	Peptide
1	A	43	ARG	Sidechain
2	D	914	ARG	Sidechain
1	I	2458	THR	Peptide
2	J	2593	ARG	Sidechain
1	K	3029	THR	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2103	0	2150	388	0
1	C	2103	0	2147	350	0
1	E	2103	0	2147	364	0
1	G	2103	0	2147	392	0
1	I	2103	0	2147	406	0
1	K	2103	0	2147	406	0
2	B	2345	0	2431	333	0
2	D	2345	0	2431	377	0
2	F	2345	0	2431	433	0
2	H	2345	0	2431	408	0
2	J	2345	0	2431	400	0
All	All	24343	0	25040	3726	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 75.

All (3726) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1233:THR:HG23	1:E:1313:THR:HG23	1.20	1.18
1:A:235:LEU:HA	2:B:504:ALA:HB1	1.21	1.18
1:A:218:SER:HB2	1:K:3090:LEU:HA	1.18	1.14
1:A:91:THR:HG23	1:A:171:THR:HG23	1.17	1.14
2:F:1665:LEU:CB	1:G:1931:SER:HA	1.77	1.14
1:C:649:VAL:HG11	1:C:698:LEU:HD23	1.30	1.14
2:J:2798:LEU:HD21	2:J:2805:ILE:HG12	1.26	1.13
2:F:1456:THR:HG22	2:F:1482:LEU:HD22	1.29	1.13
1:G:1941:LEU:HD11	1:G:1949:ILE:HA	1.30	1.13
1:G:1951:LEU:HD22	1:G:1954:LEU:HB2	1.21	1.13
1:E:1245:LEU:HA	1:E:1248:ILE:HD11	1.29	1.13
1:E:1377:LEU:HA	2:F:1646:ALA:HB1	1.21	1.13
1:I:2512:LEU:HD12	1:I:2519:LEU:HD12	1.16	1.13
2:D:888:GLY:HA2	2:D:909:GLU:HG2	1.31	1.12
1:A:235:LEU:HD21	2:B:501:GLU:HA	1.21	1.12
1:E:1252:ILE:HG21	1:E:1256:TYR:HA	1.16	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2526:GLU:HB2	2:J:2787:GLU:HG3	1.29	1.12
1:E:1213:SER:HB2	1:E:1237:LEU:HD21	1.30	1.11
1:C:662:THR:HG23	1:C:742:THR:HG23	1.33	1.10
1:K:3083:LEU:HD23	1:K:3090:LEU:HD23	1.34	1.10
2:F:1582:LEU:HD13	2:F:1593:LEU:HD22	1.24	1.09
1:G:1941:LEU:HD12	1:G:1948:LEU:HD23	1.25	1.09
1:K:3093:LEU:HD23	1:K:3096:LEU:HB3	1.34	1.09
2:F:1665:LEU:HB2	1:G:1931:SER:HA	1.24	1.09
2:H:2233:TYR:HA	1:I:2502:SER:HB2	1.31	1.09
2:J:2680:LEU:HD23	2:J:2684:TYR:HA	1.18	1.09
2:J:2666:SER:HB2	2:J:2733:LEU:HD11	1.13	1.08
1:C:809:LEU:HG	2:D:1078:ALA:HB2	1.22	1.08
2:J:2807:LEU:HD21	2:J:2810:ILE:HD12	1.27	1.08
2:B:510:LEU:HD23	1:C:782:ILE:HD13	1.17	1.08
2:H:2095:SER:HB3	2:H:2162:LEU:HD21	1.35	1.08
1:G:1948:LEU:HA	2:H:2217:ALA:HB1	1.09	1.07
1:G:1951:LEU:HG	2:H:2220:ALA:HB2	1.11	1.07
1:I:2522:LEU:HB2	2:J:2791:ALA:HB2	1.28	1.07
2:D:1091:TYR:HA	1:E:1360:SER:HB2	1.14	1.06
2:F:1662:TYR:HA	1:G:1931:SER:HB3	1.31	1.06
1:K:2973:VAL:HG23	1:K:2974:LEU:HD22	1.36	1.06
1:I:2512:LEU:HD11	1:I:2520:ILE:HA	1.34	1.06
1:K:3030:PHE:HB2	1:K:3033:GLU:HB3	1.36	1.06
2:J:2807:LEU:HD13	2:J:2810:ILE:HB	1.38	1.06
1:C:806:LEU:HA	2:D:1075:ALA:HB1	1.06	1.05
2:J:2804:TYR:HA	1:K:3073:SER:HB2	1.33	1.05
1:C:685:TYR:HE1	1:C:734:LEU:HD11	1.20	1.04
1:A:242:GLU:HB2	2:B:503:GLU:HG3	1.08	1.04
1:I:2519:LEU:HA	2:J:2788:ALA:HB1	1.09	1.04
1:G:1948:LEU:HD11	2:H:2214:GLU:HA	1.40	1.04
2:B:320:ARG:HD2	2:B:355:ILE:HD11	1.37	1.03
2:J:2808:ARG:HG2	1:K:3069:ALA:HB1	1.40	1.03
2:D:1015:ALA:HB1	2:D:1020:LEU:HD12	1.38	1.03
2:D:1091:TYR:CA	1:E:1360:SER:HB2	1.88	1.03
1:C:813:GLU:HB3	2:D:1074:GLU:HG3	1.40	1.03
1:I:2458:THR:HG21	1:I:2463:PHE:HD2	1.20	1.03
1:G:1812:VAL:HG13	1:G:1815:GLN:HB2	1.40	1.02
1:A:218:SER:HB2	1:K:3090:LEU:CA	1.87	1.02
1:I:2522:LEU:CD1	1:I:2525:LEU:HB3	1.89	1.02
1:A:74:ARG:HB2	1:A:96:PHE:HE2	1.24	1.02
2:J:2597:PHE:CE2	2:J:2627:ARG:HB2	1.95	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2089:ILE:HD12	2:H:2172:LEU:HG	1.41	1.02
1:G:1955:GLU:HG2	2:H:2216:GLU:HB2	1.40	1.01
2:J:2606:ILE:HG22	2:J:2635:ILE:HG22	1.40	1.01
2:J:2793:MET:HG3	1:K:3066:ILE:HD11	1.43	1.01
1:I:2522:LEU:HG	2:J:2787:GLU:HB3	1.42	1.00
1:C:609:ILE:HD11	1:C:633:GLN:HG3	1.39	1.00
1:A:207:LYS:HD2	1:K:3075:ALA:HB2	1.41	0.99
2:F:1652:LEU:HD21	2:F:1666:ARG:HD2	1.43	0.99
2:D:1094:LEU:HD13	2:D:1097:ILE:HB	1.41	0.99
1:A:218:SER:CB	1:K:3090:LEU:HA	1.93	0.99
1:G:1951:LEU:HD21	1:G:1954:LEU:HD12	1.41	0.99
1:A:235:LEU:HD23	2:B:504:ALA:CB	1.92	0.99
1:C:809:LEU:CG	2:D:1078:ALA:HB2	1.91	0.99
2:D:1091:TYR:HA	1:E:1360:SER:CB	1.91	0.99
2:H:2111:LEU:HD23	2:H:2111:LEU:H	1.28	0.99
1:A:231:ALA:HB3	1:A:235:LEU:HD12	1.40	0.99
1:I:2526:GLU:CB	2:J:2787:GLU:HG3	1.92	0.99
2:B:385:ASN:HD21	2:B:448:SER:HB3	1.26	0.98
2:H:2236:LEU:HD11	2:H:2239:ILE:HD12	1.45	0.98
2:F:1462:ARG:HD3	2:F:1477:ILE:HG21	1.40	0.98
2:F:1504:ILE:HG21	2:F:1551:VAL:HG11	1.45	0.98
1:G:1951:LEU:CG	2:H:2220:ALA:HB2	1.92	0.98
2:B:382:SER:HB3	2:B:449:LEU:HD21	1.44	0.98
1:C:806:LEU:CA	2:D:1075:ALA:HB1	1.93	0.97
1:G:1823:ILE:HD11	1:G:1827:TYR:HA	1.45	0.97
1:K:3083:LEU:HA	1:K:3090:LEU:HD23	1.44	0.97
2:F:1665:LEU:HB2	1:G:1931:SER:CA	1.93	0.97
1:I:2508:ILE:HD13	2:J:2781:ILE:HG12	1.46	0.97
2:D:963:MET:HG3	2:D:971:TYR:CE2	2.01	0.96
2:B:523:LEU:HD12	2:B:526:ILE:HD13	1.46	0.96
1:E:1234:LEU:HD21	1:E:1236:ILE:HD11	1.44	0.96
2:H:2035:ILE:HG23	2:H:2064:ILE:HD11	1.46	0.96
1:I:2519:LEU:HA	2:J:2788:ALA:CB	1.94	0.96
1:E:1380:LEU:HD23	2:F:1649:ALA:HB2	1.44	0.96
1:K:3093:LEU:CD2	1:K:3096:LEU:HB3	1.94	0.96
1:G:1750:VAL:HB	1:G:1820:PHE:HZ	1.30	0.96
2:F:1665:LEU:CD2	1:G:1931:SER:HB3	1.96	0.96
1:G:1819:ILE:HD12	1:G:1827:TYR:CE1	2.01	0.95
1:G:1941:LEU:HA	1:G:1948:LEU:HD23	1.43	0.95
1:C:806:LEU:HA	2:D:1075:ALA:CB	1.96	0.95
2:D:894:PHE:CZ	2:D:919:GLN:HB3	2.01	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1886:LEU:HD23	1:G:1886:LEU:H	1.31	0.95
1:A:242:GLU:HB2	2:B:503:GLU:CG	1.94	0.95
1:E:1241:VAL:HG12	1:E:1244:GLN:HB2	1.48	0.95
1:A:235:LEU:HA	2:B:504:ALA:CB	1.96	0.95
2:B:461:PHE:HB2	2:B:464:GLU:HB3	1.48	0.95
1:G:1823:ILE:CD1	1:G:1827:TYR:HA	1.97	0.95
1:G:1951:LEU:HG	2:H:2220:ALA:CB	1.95	0.95
2:H:2233:TYR:HA	1:I:2502:SER:CB	1.96	0.95
2:J:2807:LEU:CG	1:K:3076:ALA:HB2	1.97	0.95
1:I:2522:LEU:HB2	2:J:2791:ALA:CB	1.97	0.95
2:B:523:LEU:HD22	1:C:792:ALA:CA	1.97	0.95
1:E:1377:LEU:CA	2:F:1646:ALA:HB1	1.97	0.95
1:A:235:LEU:HD23	2:B:504:ALA:HB2	1.48	0.95
2:B:514:LEU:HA	2:B:520:TYR:CD2	2.02	0.95
1:G:1951:LEU:HD13	2:H:2216:GLU:HG3	1.47	0.95
1:I:2374:ILE:HG12	1:I:2457:LEU:HD23	1.48	0.95
1:E:1261:LEU:HB3	1:E:1262:PRO:HD3	1.48	0.95
1:E:1377:LEU:HD22	2:F:1646:ALA:HB1	1.48	0.95
1:E:1381:ARG:HA	2:F:1645:GLU:HG3	1.48	0.95
2:F:1662:TYR:HA	1:G:1931:SER:CB	1.96	0.95
1:K:2949:ILE:HD12	1:K:2951:PHE:HE2	1.32	0.95
1:C:809:LEU:HD22	1:C:812:LEU:HB2	1.48	0.95
2:H:2258:LEU:HD13	1:I:2545:PRO:HG2	1.49	0.95
2:J:2568:LEU:HD12	2:J:2569:PRO:HD2	1.48	0.95
2:J:2606:ILE:HG22	2:J:2635:ILE:CG2	1.96	0.95
2:J:2624:LEU:HD23	2:J:2624:LEU:H	1.27	0.95
1:K:2949:ILE:HG22	1:K:3023:VAL:HG22	1.47	0.95
1:G:1941:LEU:HD21	1:G:1949:ILE:HB	1.49	0.94
1:I:2403:LEU:HB3	1:I:2404:PRO:HD3	1.49	0.94
2:J:2597:PHE:HE2	2:J:2627:ARG:HB2	1.28	0.94
2:B:357:ALA:HA	2:B:383:ARG:HG2	1.45	0.94
2:D:893:ILE:HD13	2:D:961:PRO:HG3	1.48	0.94
1:E:1213:SER:HA	1:E:1239:ARG:HG2	1.48	0.94
1:G:1874:PHE:HB3	1:G:1876:LEU:CD1	1.97	0.94
2:J:2800:LYS:HB3	2:J:2804:TYR:CD1	2.02	0.94
1:G:1955:GLU:CG	2:H:2216:GLU:HB2	1.97	0.94
1:K:3086:ALA:HB3	1:K:3090:LEU:HD22	1.46	0.94
2:F:1486:ILE:HD13	2:F:1486:ILE:H	1.32	0.94
2:F:1603:PHE:CG	2:F:1606:GLU:HB2	2.00	0.94
1:G:1722:ILE:HA	1:G:1725:PHE:CE1	2.03	0.94
1:A:106:ILE:HG22	1:A:110:ILE:CD1	1.96	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:221:ALA:CA	1:K:3093:LEU:HD12	1.97	0.94
1:A:242:GLU:CB	2:B:503:GLU:HG3	1.96	0.94
1:G:1941:LEU:HD11	1:G:1949:ILE:CA	1.96	0.93
1:A:221:ALA:HB2	1:K:3093:LEU:CG	1.98	0.93
1:A:238:LEU:CG	2:B:507:ALA:HB2	1.99	0.93
1:E:1370:LEU:HD11	1:E:1378:ILE:HB	1.49	0.93
2:J:2798:LEU:CD2	2:J:2805:ILE:HG12	1.97	0.93
1:A:94:ILE:HG23	1:A:165:LEU:HD13	1.50	0.93
2:D:1011:LEU:HD23	2:D:1022:LEU:HD21	1.49	0.93
1:G:1941:LEU:HD21	1:G:1949:ILE:CG1	1.99	0.93
1:I:2519:LEU:HD22	2:J:2788:ALA:CB	1.99	0.93
1:I:2418:PHE:CZ	1:I:2430:VAL:HG22	2.03	0.92
1:C:809:LEU:HG	2:D:1078:ALA:CB	1.98	0.92
2:D:1095:ARG:HG3	1:E:1356:ALA:HB1	1.51	0.92
2:J:2794:LEU:HD21	1:K:3066:ILE:HA	1.50	0.92
2:J:2804:TYR:HA	1:K:3073:SER:CB	1.98	0.92
2:B:510:LEU:CD2	1:C:782:ILE:HD13	1.99	0.92
2:D:933:ILE:HG21	2:D:980:VAL:HG11	1.50	0.92
2:F:1465:PHE:CE2	2:F:1478:LEU:HD21	2.05	0.92
1:G:1759:GLN:HE21	1:G:1761:ILE:HD12	1.34	0.92
1:A:235:LEU:CD2	2:B:501:GLU:HA	1.99	0.92
2:B:444:ALA:HA	2:B:447:PHE:CD2	2.03	0.92
1:G:1948:LEU:HA	2:H:2217:ALA:CB	1.98	0.92
2:H:2109:LEU:HD22	2:H:2113:TYR:CD1	2.05	0.92
2:D:1008:ARG:HD3	2:D:1025:VAL:HG22	1.49	0.92
2:F:1665:LEU:HD21	1:G:1927:ALA:O	1.70	0.92
1:I:2512:LEU:CG	1:I:2520:ILE:HG12	1.99	0.92
1:A:228:LEU:HA	1:A:235:LEU:HD13	1.52	0.92
1:G:1812:VAL:HG11	1:G:1815:GLN:HG3	1.52	0.91
2:H:2091:LEU:HD12	2:H:2093:VAL:HG23	1.50	0.91
1:E:1213:SER:HB2	1:E:1237:LEU:CD2	1.99	0.91
2:J:2811:ARG:HD2	1:K:3068:SER:HB3	1.51	0.91
1:C:662:THR:CG2	1:C:742:THR:HG23	2.01	0.91
2:D:915:ILE:HG23	2:D:919:GLN:CG	2.01	0.91
1:I:2435:SER:HA	1:I:2452:VAL:HG11	1.53	0.91
1:I:2522:LEU:HD12	1:I:2525:LEU:HB3	1.52	0.91
2:B:523:LEU:HB2	1:C:792:ALA:HB2	1.50	0.91
1:I:2512:LEU:HD12	1:I:2519:LEU:CD1	2.01	0.91
2:B:516:LYS:HB3	2:B:520:TYR:CD1	2.04	0.91
2:F:1665:LEU:HD22	1:G:1931:SER:CB	1.99	0.91
1:A:36:ALA:HB3	1:A:50:VAL:CG1	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2314:VAL:HG13	1:I:2336:GLU:HA	1.52	0.91
1:A:238:LEU:HG	1:A:241:LEU:HB3	1.53	0.91
2:F:1547:LEU:HB3	2:F:1548:PRO:HD3	1.52	0.91
2:J:2808:ARG:CG	1:K:3069:ALA:HB1	2.00	0.91
1:A:119:LEU:HB3	1:A:120:PRO:HD3	1.53	0.90
2:B:523:LEU:CG	1:C:792:ALA:HB2	2.01	0.90
2:B:520:TYR:HA	1:C:789:SER:CB	2.01	0.90
2:J:2680:LEU:HD23	2:J:2684:TYR:CA	2.02	0.90
2:H:2236:LEU:CG	1:I:2505:ALA:HB2	2.01	0.90
1:K:2998:ARG:HH12	1:K:3025:LEU:HD11	1.32	0.90
1:E:1241:VAL:CG1	1:E:1244:GLN:HB2	2.00	0.90
2:J:2597:PHE:CE1	2:J:2625:HIS:HB2	2.07	0.90
2:J:2684:TYR:OH	2:J:2731:PHE:HB3	1.72	0.90
2:D:1094:LEU:CG	1:E:1363:ALA:HB2	2.01	0.90
2:F:1665:LEU:HD13	1:G:1930:ASP:CA	2.01	0.90
2:J:2619:ILE:HD13	2:J:2619:ILE:H	1.35	0.90
1:E:1179:VAL:HB	1:E:1245:LEU:CD1	2.01	0.89
1:E:1190:ILE:HD13	1:E:1190:ILE:H	1.36	0.89
1:K:3083:LEU:HA	1:K:3090:LEU:CD2	2.01	0.89
2:J:2804:TYR:CA	1:K:3073:SER:HB2	2.01	0.89
1:K:2922:PHE:CD1	1:K:2958:LEU:HD12	2.08	0.89
1:K:3083:LEU:HD21	1:K:3094:ARG:HD3	1.55	0.89
1:A:91:THR:HG23	1:A:171:THR:CG2	2.02	0.89
2:F:1665:LEU:HG	2:F:1666:ARG:N	1.87	0.89
1:C:685:TYR:CE1	1:C:734:LEU:HD11	2.06	0.89
2:F:1665:LEU:HD22	1:G:1931:SER:HB3	1.52	0.89
2:F:1603:PHE:CB	2:F:1606:GLU:HB2	2.03	0.89
1:C:677:ILE:HD13	1:C:685:TYR:CE2	2.08	0.89
1:K:2882:LEU:HD23	1:K:2883:TYR:N	1.87	0.89
1:C:681:ILE:HD12	1:C:685:TYR:HB2	1.52	0.89
1:C:809:LEU:HD22	1:C:812:LEU:CB	2.02	0.89
1:A:30:VAL:HG13	1:A:52:GLU:HA	1.52	0.89
1:C:670:VAL:HG11	1:C:673:GLN:HG2	1.52	0.89
1:E:1252:ILE:CG2	1:E:1256:TYR:HA	2.02	0.89
1:G:1839:ILE:HG21	1:G:1867:LEU:HD21	1.52	0.89
1:G:1941:LEU:HA	1:G:1948:LEU:CD2	2.02	0.88
1:A:91:THR:CG2	1:A:171:THR:HG23	2.00	0.88
1:G:1941:LEU:HD21	1:G:1949:ILE:CB	2.03	0.88
2:J:2689:LEU:HB2	2:J:2690:PRO:HD3	1.55	0.88
1:K:2889:HIS:HD2	1:K:2923:ASP:HA	1.36	0.88
1:E:1380:LEU:CD2	2:F:1649:ALA:HB2	2.03	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2028:VAL:HG23	2:H:2051:GLU:HA	1.56	0.88
2:J:2744:SER:HB3	2:J:2749:TYR:HB2	1.54	0.88
2:J:2807:LEU:HB3	1:K:3072:ASP:C	1.94	0.88
2:B:335:ILE:H	2:B:335:ILE:HD13	1.38	0.88
1:C:649:VAL:CG1	1:C:698:LEU:HD23	2.04	0.88
2:H:2150:ARG:HA	2:H:2167:VAL:HG21	1.56	0.88
2:H:2236:LEU:HD22	1:I:2505:ALA:CA	2.03	0.88
1:K:2894:PHE:CD1	1:K:2920:ILE:HD11	2.08	0.88
1:E:1373:ALA:HB1	1:E:1377:LEU:CG	2.03	0.88
2:H:2233:TYR:CA	1:I:2502:SER:HB2	2.02	0.88
1:I:2378:ILE:HG21	1:I:2380:PHE:CE2	2.07	0.88
1:E:1233:THR:CG2	1:E:1313:THR:HG23	2.03	0.88
2:F:1685:ILE:HD13	2:F:1685:ILE:H	1.36	0.88
1:G:1887:THR:HG22	1:G:1892:PHE:CD1	2.08	0.88
1:G:1969:ASN:HD21	2:H:2253:GLN:HB2	1.38	0.88
2:H:2121:ILE:HG23	2:H:2156:ARG:HD2	1.54	0.88
1:I:2378:ILE:CD1	1:I:2452:VAL:HG23	2.04	0.88
1:K:2891:ALA:HB3	1:K:2905:VAL:CG2	2.04	0.88
1:A:110:ILE:HG13	1:A:114:TYR:HA	1.53	0.88
2:H:2236:LEU:HB2	1:I:2505:ALA:HB2	1.54	0.88
2:F:1477:ILE:HD11	2:F:1532:PRO:HD3	1.54	0.87
1:C:661:ILE:HG21	1:C:698:LEU:HD21	1.53	0.87
1:C:747:GLY:HA2	1:C:750:PHE:CD2	2.10	0.87
1:E:1233:THR:HG23	1:E:1313:THR:CG2	2.02	0.87
1:I:2380:PHE:HE1	1:I:2449:LEU:HB2	1.38	0.87
1:C:806:LEU:HG	2:D:1075:ALA:CB	2.05	0.87
1:G:1749:ALA:HB3	1:G:1763:VAL:CG1	2.05	0.87
1:C:799:LEU:HD21	1:C:810:ARG:HD2	1.57	0.87
2:H:2272:PHE:HD1	2:H:2273:THR:H	1.23	0.87
1:E:1188:GLN:HB3	1:E:1190:ILE:CD1	2.05	0.87
1:E:1188:GLN:HB3	1:E:1190:ILE:HD13	1.56	0.87
1:I:2458:THR:HG21	1:I:2463:PHE:CD2	2.09	0.87
1:E:1380:LEU:CG	2:F:1649:ALA:HB2	2.04	0.87
2:H:2162:LEU:HD23	2:H:2163:ILE:N	1.89	0.87
2:J:2733:LEU:HD13	2:J:2734:ILE:N	1.90	0.86
2:H:2109:LEU:HD21	2:H:2117:VAL:CG1	2.05	0.86
1:K:2892:VAL:CG1	1:K:2920:ILE:HB	2.06	0.86
1:A:217:ASP:C	1:K:3093:LEU:HB3	1.95	0.86
2:F:1462:ARG:HH11	2:F:1477:ILE:HG22	1.40	0.86
2:H:2066:TYR:CG	2:H:2102:LEU:HD13	2.09	0.86
1:I:2519:LEU:CA	2:J:2788:ALA:HB1	2.01	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2606:ILE:HD11	2:J:2615:GLN:O	1.76	0.86
1:I:2442:ALA:HB1	1:I:2447:LEU:CD2	2.05	0.86
2:H:2075:ILE:HD13	2:H:2122:VAL:CG1	2.05	0.86
1:A:94:ILE:HG23	1:A:165:LEU:CD1	2.05	0.86
2:B:514:LEU:HB2	2:B:521:ILE:HD11	1.57	0.86
1:E:1234:LEU:CD2	1:E:1236:ILE:HD11	2.04	0.86
1:E:1370:LEU:HD12	1:E:1378:ILE:HD13	1.56	0.86
1:E:1380:LEU:HD21	1:E:1383:LEU:HD22	1.57	0.86
1:A:103:LEU:HA	1:A:106:ILE:CD1	2.05	0.86
1:C:629:ILE:HB	1:C:633:GLN:NE2	1.91	0.86
1:C:813:GLU:CB	2:D:1074:GLU:HG3	2.06	0.86
2:D:893:ILE:CD1	2:D:961:PRO:HG3	2.05	0.86
1:I:2418:PHE:CE2	1:I:2430:VAL:HG22	2.11	0.86
1:A:238:LEU:HD22	2:B:507:ALA:CA	2.06	0.86
2:D:1008:ARG:HA	2:D:1025:VAL:HG21	1.58	0.86
1:E:1281:LEU:O	1:E:1285:ARG:HG2	1.76	0.86
2:H:2033:ARG:HD3	2:H:2068:ILE:HG13	1.56	0.86
2:H:2066:TYR:CD1	2:H:2102:LEU:HD13	2.10	0.86
2:J:2599:VAL:HG23	2:J:2622:GLU:HA	1.58	0.86
1:A:228:LEU:HA	1:A:235:LEU:CD1	2.05	0.85
1:E:1236:ILE:CD1	1:E:1310:VAL:HG13	2.06	0.85
1:G:1888:PHE:HB2	1:G:1891:GLU:HB2	1.56	0.85
1:G:1944:ALA:HB3	1:G:1948:LEU:HD22	1.55	0.85
1:A:221:ALA:N	1:K:3093:LEU:HD12	1.90	0.85
2:B:523:LEU:CB	1:C:792:ALA:HB2	2.05	0.85
2:F:1652:LEU:HD21	2:F:1666:ARG:CD	2.04	0.85
1:G:1937:ILE:HD11	2:H:2209:LYS:HE3	1.56	0.85
1:K:2885:VAL:HG13	1:K:2907:GLU:HA	1.55	0.85
1:A:69:CYS:O	1:A:97:ARG:HD3	1.75	0.85
2:F:1665:LEU:HD13	1:G:1930:ASP:N	1.91	0.85
2:H:2236:LEU:CB	1:I:2505:ALA:HB2	2.06	0.85
2:J:2807:LEU:CD2	2:J:2810:ILE:HD12	2.06	0.85
1:K:3083:LEU:HD23	1:K:3090:LEU:CD2	2.06	0.85
1:E:1373:ALA:HB1	1:E:1377:LEU:HD12	1.56	0.85
2:H:2279:LEU:HD23	2:H:2281:LYS:HD3	1.59	0.85
2:J:2616:GLN:HA	2:J:2674:PRO:HB3	1.58	0.85
1:G:1759:GLN:NE2	1:G:1761:ILE:HD12	1.91	0.85
1:G:1839:ILE:HG21	1:G:1867:LEU:CD2	2.05	0.85
2:J:2800:LYS:O	2:J:2804:TYR:HB2	1.76	0.85
1:K:3020:LEU:HD21	1:K:3023:VAL:HG23	1.58	0.85
2:D:914:ARG:HG2	2:D:919:GLN:HB2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1948:LEU:CA	2:H:2217:ALA:HB1	2.01	0.84
1:G:1951:LEU:HB3	2:H:2216:GLU:CG	2.07	0.84
2:H:2109:LEU:HD21	2:H:2117:VAL:HG13	1.59	0.84
2:J:2798:LEU:HA	2:J:2804:TYR:CD2	2.12	0.84
2:H:2028:VAL:HG21	2:H:2050:ALA:O	1.76	0.84
1:A:39:PHE:HB3	1:A:45:VAL:HG22	1.57	0.84
2:H:2265:LEU:HB3	2:H:2267:LEU:HD11	1.59	0.84
1:A:39:PHE:HE1	1:A:65:ILE:HD11	1.43	0.84
1:A:106:ILE:O	1:A:110:ILE:HD13	1.78	0.84
2:H:2035:ILE:HG13	2:H:2103:PRO:HG3	1.60	0.84
1:I:2521:GLU:O	1:I:2524:LYS:HG2	1.77	0.84
2:B:459:LEU:H	2:B:459:LEU:HD23	1.43	0.84
2:B:520:TYR:HA	1:C:789:SER:HB2	1.58	0.84
1:E:1148:PHE:O	1:E:1151:ILE:HG22	1.77	0.84
2:F:1582:LEU:HD12	2:F:1583:THR:N	1.93	0.84
2:J:2607:PHE:CE1	2:J:2620:LEU:HD11	2.12	0.84
2:B:514:LEU:HA	2:B:520:TYR:HD2	1.41	0.84
1:G:1823:ILE:HD13	1:G:1831:VAL:HG23	1.57	0.84
1:G:1852:LEU:O	1:G:1856:ARG:HG2	1.78	0.84
2:J:2793:MET:CG	1:K:3066:ILE:HD11	2.06	0.84
2:J:2811:ARG:HB2	1:K:3072:ASP:CG	1.97	0.84
1:A:80:THR:HG21	1:A:127:LEU:HD12	1.58	0.83
1:I:2400:GLU:OE2	1:I:2401:ARG:HG2	1.78	0.83
1:I:2519:LEU:HD21	2:J:2785:GLU:HA	1.58	0.83
1:A:247:ILE:O	1:A:250:GLN:HG3	1.77	0.83
1:C:607:ALA:HB3	1:C:621:VAL:CG1	2.08	0.83
1:E:1225:LYS:O	1:E:1225:LYS:HD3	1.78	0.83
1:G:1941:LEU:CD1	1:G:1948:LEU:HD23	2.08	0.83
2:H:2121:ILE:HD11	2:H:2160:PHE:CE2	2.13	0.83
1:A:217:ASP:CG	1:K:3097:GLU:HB2	1.98	0.83
2:B:516:LYS:O	2:B:520:TYR:HB2	1.77	0.83
1:E:1380:LEU:HB3	2:F:1645:GLU:C	1.98	0.83
1:A:238:LEU:HB3	2:B:503:GLU:C	1.98	0.83
2:B:520:TYR:HA	1:C:789:SER:OG	1.78	0.83
1:C:668:ARG:HG3	1:C:735:ILE:HD11	1.61	0.83
2:F:1665:LEU:HB2	1:G:1931:SER:N	1.93	0.83
1:G:1941:LEU:HD12	1:G:1948:LEU:CD2	2.06	0.83
1:I:2314:VAL:HG11	1:I:2335:GLY:O	1.78	0.83
2:J:2604:ARG:HD2	2:J:2639:ILE:HG12	1.60	0.83
2:J:2807:LEU:CD1	2:J:2810:ILE:HB	2.08	0.83
1:G:1937:ILE:CD1	2:H:2209:LYS:HE3	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:214:ALA:HB1	1:K:3094:ARG:HB2	1.61	0.83
2:B:378:LEU:HD11	2:B:413:LEU:HD23	1.60	0.83
1:C:813:GLU:HB3	2:D:1074:GLU:CG	2.08	0.83
2:D:969:LEU:H	2:D:969:LEU:HD12	1.44	0.83
1:E:1377:LEU:HA	2:F:1646:ALA:CB	2.05	0.83
1:G:1847:PHE:HE2	1:G:1855:GLN:HB3	1.44	0.83
2:J:2794:LEU:CD2	1:K:3066:ILE:HA	2.09	0.83
2:B:357:ALA:CA	2:B:383:ARG:HG2	2.09	0.83
2:F:1456:THR:CG2	2:F:1482:LEU:HD22	2.08	0.83
1:G:1803:ILE:CD1	1:G:1883:LEU:HD23	2.09	0.83
1:G:1855:GLN:HG3	1:G:1858:LEU:HB2	1.61	0.83
2:J:2607:PHE:HZ	2:J:2620:LEU:HD21	1.42	0.83
2:F:1462:ARG:HD3	2:F:1477:ILE:CG2	2.09	0.82
1:C:745:THR:HB	1:C:746:PHE:C	2.00	0.82
1:G:1948:LEU:HD12	2:H:2217:ALA:CB	2.09	0.82
2:J:2794:LEU:HD23	1:K:3066:ILE:HG12	1.61	0.82
1:A:219:LYS:O	1:A:219:LYS:HD2	1.79	0.82
2:H:2035:ILE:HD13	2:H:2036:PHE:N	1.92	0.82
1:C:662:THR:HG23	1:C:742:THR:CG2	2.10	0.82
2:D:1008:ARG:O	2:D:1012:THR:HG23	1.79	0.82
1:E:1373:ALA:HB1	1:E:1377:LEU:CB	2.10	0.82
1:G:1803:ILE:HD11	1:G:1883:LEU:HD23	1.62	0.82
2:J:2704:PHE:HE2	2:J:2712:GLN:HB2	1.44	0.82
2:J:2774:LYS:HD2	2:J:2778:ARG:HD3	1.61	0.82
1:K:3083:LEU:CD2	1:K:3090:LEU:HD23	2.09	0.82
1:G:1969:ASN:ND2	2:H:2253:GLN:HB2	1.94	0.82
1:A:218:SER:OG	1:K:3090:LEU:HD12	1.78	0.82
1:E:1245:LEU:HA	1:E:1248:ILE:CD1	2.09	0.82
2:F:1558:VAL:HG21	2:F:1578:ILE:HG22	1.61	0.82
1:I:2512:LEU:HD11	1:I:2520:ILE:CA	2.09	0.82
2:J:2807:LEU:HD23	1:K:3076:ALA:HB2	1.59	0.82
2:B:396:LEU:HG	2:B:400:TYR:HD1	1.44	0.82
2:H:2035:ILE:CG1	2:H:2103:PRO:HG3	2.09	0.82
1:I:2436:ASP:O	1:I:2439:THR:HG22	1.80	0.82
2:J:2807:LEU:CD2	1:K:3076:ALA:HB2	2.08	0.82
1:A:152:ASP:O	1:A:155:THR:HG22	1.80	0.82
2:D:964:TYR:HE1	2:D:969:LEU:HG	1.44	0.82
2:H:2174:PHE:HB2	2:H:2177:GLU:HB2	1.60	0.82
1:K:3007:ASP:O	1:K:3010:THR:HG22	1.80	0.82
1:E:1294:ASP:O	1:E:1297:THR:HG22	1.79	0.82
1:K:2985:VAL:HA	1:K:2988:ARG:HD3	1.60	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:520:TYR:OH	1:C:786:GLU:HG2	1.80	0.82
2:D:894:PHE:CE2	2:D:919:GLN:HB3	2.15	0.82
1:E:1377:LEU:HD22	2:F:1646:ALA:CB	2.10	0.82
1:I:2512:LEU:CD2	1:I:2520:ILE:HG12	2.10	0.82
2:J:2667:ARG:HG3	2:J:2734:ILE:HG22	1.62	0.82
1:A:30:VAL:CG1	1:A:52:GLU:HA	2.09	0.81
1:C:795:ILE:O	1:C:799:LEU:HG	1.79	0.81
1:E:1245:LEU:HB3	1:E:1246:PRO:HD3	1.61	0.81
2:B:514:LEU:HD13	2:B:515:SER:N	1.94	0.81
2:D:964:TYR:CE1	2:D:969:LEU:HG	2.14	0.81
2:F:1601:LEU:HD23	2:F:1602:SER:N	1.95	0.81
1:E:1284:GLN:HG2	1:E:1287:LEU:HB3	1.62	0.81
1:G:1812:VAL:HG12	1:G:1875:GLY:O	1.81	0.81
2:H:2118:LEU:HB3	2:H:2119:PRO:HD3	1.63	0.81
2:H:2229:LYS:HB2	2:H:2233:TYR:CE2	2.15	0.81
2:J:2606:ILE:HG12	2:J:2674:PRO:HG3	1.62	0.81
1:A:238:LEU:HB2	2:B:507:ALA:HB2	1.60	0.81
2:D:1095:ARG:HG3	1:E:1356:ALA:CB	2.11	0.81
1:I:2526:GLU:CG	2:J:2787:GLU:HG3	2.10	0.81
1:A:78:VAL:HG13	1:A:90:ILE:HD11	1.63	0.81
1:A:103:LEU:HD13	1:A:106:ILE:HD12	1.63	0.81
1:G:1750:VAL:HB	1:G:1820:PHE:CZ	2.16	0.81
1:G:1816:LEU:CD2	1:G:1817:PRO:HD3	2.10	0.81
2:H:2227:LEU:HD13	2:H:2234:ILE:HG22	1.62	0.81
1:I:2512:LEU:HG	1:I:2520:ILE:HG12	1.62	0.81
1:I:2519:LEU:CD2	2:J:2785:GLU:HA	2.11	0.81
2:D:960:LEU:HB3	2:D:961:PRO:HD3	1.63	0.81
2:D:1098:ARG:HB2	1:E:1359:ASP:CG	2.00	0.81
1:E:1380:LEU:CD2	1:E:1383:LEU:HD22	2.10	0.81
2:J:2672:GLU:HG3	2:J:2732:SER:HB2	1.63	0.81
1:C:804:ASP:O	1:C:807:ILE:HG22	1.80	0.81
2:D:971:TYR:HE1	2:D:1020:LEU:HD23	1.45	0.81
2:D:1011:LEU:HD23	2:D:1022:LEU:CD2	2.11	0.81
2:F:1432:GLY:O	2:F:1435:THR:HG22	1.80	0.81
1:C:708:GLY:O	1:C:711:ILE:HG22	1.81	0.81
2:F:1532:PRO:O	2:F:1536:GLN:HG3	1.80	0.81
2:F:1542:TYR:O	2:F:1546:VAL:HG12	1.81	0.80
1:I:2515:ALA:HB3	1:I:2519:LEU:HG	1.61	0.80
2:J:2662:LEU:HD21	2:J:2697:LEU:HD22	1.63	0.80
2:D:907:LEU:HD13	2:D:908:ALA:N	1.95	0.80
2:H:2169:ILE:HD13	2:H:2169:ILE:H	1.45	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:524:ARG:HB2	1:C:785:ALA:HB1	1.63	0.80
1:C:722:SER:O	1:C:726:THR:HG23	1.82	0.80
1:C:770:VAL:O	1:C:773:LYS:HG3	1.82	0.80
1:E:1213:SER:CB	1:E:1237:LEU:HD21	2.09	0.80
2:F:1495:TYR:OH	2:F:1540:LEU:HD13	1.82	0.80
2:F:1665:LEU:HD12	1:G:1930:ASP:HB2	1.63	0.80
1:G:1956:ALA:O	1:G:1960:ILE:HG22	1.81	0.80
2:H:2237:ARG:HB2	1:I:2498:ALA:HB1	1.63	0.80
1:C:791:ALA:HB2	2:D:1064:GLN:HG2	1.62	0.80
2:D:956:ASN:OD1	2:D:1021:ILE:HG12	1.81	0.80
1:E:1317:PHE:HB3	1:E:1320:GLU:HB2	1.63	0.80
2:F:1528:ALA:O	2:F:1531:LEU:HD23	1.80	0.80
2:H:2091:LEU:HD13	2:H:2092:ARG:N	1.97	0.80
2:H:2096:ARG:HG3	2:H:2163:ILE:HD11	1.63	0.80
2:J:2821:ALA:HB1	1:K:3105:GLN:HG2	1.62	0.80
1:A:235:LEU:CA	2:B:504:ALA:HB1	2.07	0.80
1:A:238:LEU:CB	2:B:507:ALA:HB2	2.11	0.80
2:J:2722:ARG:O	2:J:2726:GLU:HG2	1.82	0.80
1:E:1370:LEU:CD1	1:E:1378:ILE:HB	2.12	0.80
2:H:2019:TYR:O	2:H:2023:GLU:HG2	1.81	0.80
2:J:2645:LYS:H	2:J:2645:LYS:HD3	1.45	0.80
2:J:2794:LEU:CD2	1:K:3066:ILE:HG12	2.12	0.80
1:A:157:ARG:O	1:A:160:THR:HG22	1.81	0.80
1:C:677:ILE:HD12	1:C:678:PHE:N	1.97	0.80
1:I:2394:ILE:HG21	1:I:2398:TYR:HA	1.63	0.80
1:A:228:LEU:HD23	1:A:236:ILE:HA	1.64	0.80
2:B:423:SER:O	2:B:426:ILE:HG22	1.82	0.80
2:B:523:LEU:HD22	1:C:792:ALA:HA	1.64	0.80
1:E:1373:ALA:HB1	1:E:1377:LEU:CD1	2.11	0.80
2:F:1525:ARG:HD2	2:F:1594:ASP:OD2	1.82	0.80
2:F:1530:GLU:HG2	2:F:1590:SER:OG	1.82	0.80
1:I:2290:PHE:O	1:I:2293:ILE:HG22	1.81	0.80
1:I:2374:ILE:CG1	1:I:2457:LEU:HD23	2.12	0.80
1:K:3102:ILE:HG13	1:K:3106:LEU:HD23	1.64	0.80
1:E:1144:ALA:HB1	1:E:1148:PHE:HE2	1.46	0.79
2:F:1531:LEU:HD13	2:F:1534:MET:CE	2.11	0.79
2:J:2818:LYS:HA	1:K:3105:GLN:OE1	1.81	0.79
2:J:2828:TYR:CD2	2:J:2830:THR:HG23	2.17	0.79
1:K:3030:PHE:CB	1:K:3033:GLU:HB3	2.12	0.79
1:A:221:ALA:HB2	1:K:3093:LEU:HB2	1.63	0.79
2:H:2038:ASN:OD1	2:H:2061:GLN:HG2	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2079:THR:HG21	2:H:2130:VAL:HG11	1.64	0.79
1:A:26:ALA:O	1:A:57:LEU:HD23	1.83	0.79
1:A:259:TYR:HE2	2:J:2829:LEU:HG	1.45	0.79
2:B:514:LEU:HB2	2:B:521:ILE:CD1	2.12	0.79
2:H:2006:THR:O	2:H:2009:LYS:HG3	1.81	0.79
1:K:2949:ILE:HD12	1:K:2951:PHE:CE2	2.17	0.79
1:K:2949:ILE:HB	1:K:2951:PHE:CE2	2.17	0.79
1:A:106:ILE:HG22	1:A:110:ILE:HD11	1.63	0.79
2:B:540:GLN:HA	2:B:540:GLN:HE21	1.47	0.79
2:F:1665:LEU:HB2	1:G:1930:ASP:C	2.02	0.79
1:K:2998:ARG:NH1	1:K:3025:LEU:HD11	1.96	0.79
1:K:3086:ALA:HB1	1:K:3090:LEU:HD13	1.64	0.79
1:A:45:VAL:HG21	1:A:107:PHE:HD2	1.48	0.79
2:F:1582:LEU:CD2	2:F:1596:VAL:HG21	2.12	0.79
2:H:2173:SER:HB2	2:H:2178:TYR:HB2	1.63	0.79
2:J:2774:LYS:CD	2:J:2778:ARG:HD3	2.13	0.79
1:K:3020:LEU:HD11	1:K:3023:VAL:HG23	1.65	0.79
2:D:914:ARG:HD2	2:D:915:ILE:C	2.03	0.79
1:E:1269:LEU:CD2	1:E:1292:VAL:HG21	2.13	0.79
1:G:1750:VAL:CB	1:G:1820:PHE:HZ	1.95	0.79
1:G:1791:VAL:HG12	1:G:1793:THR:HG23	1.63	0.79
2:J:2798:LEU:HD11	2:J:2805:ILE:CA	2.12	0.79
1:A:30:VAL:HG11	1:A:51:GLY:O	1.83	0.79
1:K:2885:VAL:CG1	1:K:2907:GLU:HA	2.12	0.79
1:A:231:ALA:HB3	1:A:235:LEU:CD1	2.11	0.79
1:C:806:LEU:HG	2:D:1075:ALA:HB2	1.64	0.79
1:E:1260:VAL:HG22	1:E:1264:ILE:HD13	1.65	0.79
1:K:2885:VAL:HG11	1:K:2906:GLY:O	1.83	0.79
1:A:224:ILE:HG12	2:B:497:ILE:HG22	1.65	0.79
2:D:915:ILE:HG23	2:D:919:GLN:HG3	1.63	0.79
1:E:1381:ARG:HB2	2:F:1642:ALA:HB1	1.65	0.79
1:G:1951:LEU:CD2	1:G:1954:LEU:HB2	2.10	0.79
1:K:2954:VAL:HG22	1:K:3017:GLY:O	1.82	0.79
2:D:1114:ILE:HG22	2:D:1115:TYR:H	1.46	0.78
2:D:1122:VAL:C	2:D:1123:LEU:HD22	2.02	0.78
1:E:1380:LEU:HD22	1:E:1383:LEU:HD13	1.64	0.78
2:F:1531:LEU:HA	2:F:1534:MET:SD	2.22	0.78
2:H:1990:LEU:HD23	2:H:1991:LYS:N	1.98	0.78
2:F:1707:SER:C	2:F:1708:LEU:HD22	2.03	0.78
1:I:2383:VAL:HG23	1:I:2386:GLN:HB2	1.65	0.78
1:A:43:ARG:HH11	1:A:43:ARG:HB2	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2378:ILE:HD13	1:I:2452:VAL:HG23	1.64	0.78
2:H:2153:LEU:HG	2:H:2164:LEU:HD11	1.64	0.78
1:I:2512:LEU:HD21	1:I:2520:ILE:HG12	1.63	0.78
2:J:2684:TYR:O	2:J:2688:VAL:HG12	1.83	0.78
2:B:385:ASN:ND2	2:B:448:SER:HB3	1.97	0.78
1:C:667:PHE:HZ	1:C:690:LEU:HD12	1.48	0.78
1:C:799:LEU:CD2	1:C:810:ARG:HD2	2.14	0.78
1:E:1252:ILE:HG21	1:E:1256:TYR:CA	2.07	0.78
2:J:2798:LEU:HD12	2:J:2804:TYR:HB3	1.65	0.78
1:A:221:ALA:HB2	1:K:3093:LEU:CB	2.14	0.78
1:A:239:ARG:HG3	2:B:500:ALA:CB	2.14	0.78
1:C:671:ALA:O	1:C:674:LEU:HD13	1.83	0.78
2:D:887:GLU:HG3	2:D:890:HIS:CD2	2.19	0.78
2:F:1582:LEU:HD21	2:F:1596:VAL:HG21	1.65	0.78
1:C:670:VAL:HG12	1:C:673:GLN:HB2	1.65	0.78
1:C:810:ARG:O	1:C:813:GLU:HG3	1.82	0.78
2:D:984:LEU:HD23	2:D:1007:ILE:HD12	1.66	0.78
1:E:1370:LEU:CD1	1:E:1378:ILE:HD13	2.12	0.78
2:J:2673:LEU:HD13	2:J:2676:MET:CE	2.14	0.78
1:K:2973:VAL:CG2	1:K:2974:LEU:HD22	2.13	0.78
1:K:3088:ASP:O	1:K:3091:ILE:HG22	1.83	0.78
1:A:100:ALA:O	1:A:103:LEU:HD23	1.83	0.78
1:A:238:LEU:HD22	2:B:507:ALA:HB2	1.66	0.78
1:G:1816:LEU:HD23	1:G:1817:PRO:HD3	1.65	0.78
2:H:2236:LEU:HG	2:H:2239:ILE:HB	1.66	0.78
2:H:2236:LEU:HD13	1:I:2505:ALA:CB	2.14	0.78
2:D:915:ILE:HD13	2:D:915:ILE:O	1.84	0.78
1:E:1213:SER:CA	1:E:1239:ARG:HG2	2.14	0.78
1:G:1951:LEU:HD22	1:G:1954:LEU:CB	2.11	0.78
2:J:2798:LEU:HD11	2:J:2805:ILE:CG1	2.13	0.78
2:J:2798:LEU:HD13	2:J:2808:ARG:HH11	1.47	0.78
2:J:2607:PHE:CZ	2:J:2620:LEU:HD21	2.18	0.78
1:K:2874:ALA:O	1:K:2878:VAL:HG23	1.84	0.78
2:B:305:ALA:O	2:B:308:VAL:HG12	1.83	0.77
2:B:511:GLY:O	2:B:514:LEU:HD12	1.82	0.77
2:D:906:ILE:CD1	2:D:958:GLN:HA	2.14	0.77
2:H:2007:ALA:O	2:H:2011:LEU:HD23	1.84	0.77
2:H:2195:ALA:HA	2:H:2198:LEU:CD2	2.13	0.77
2:F:1658:LYS:O	2:F:1662:TYR:HB2	1.84	0.77
2:F:1686:TYR:C	2:F:1687:LEU:HD22	2.04	0.77
2:J:2610:ARG:HD2	2:J:2631:PHE:HA	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2970:ASP:HA	1:K:2974:LEU:HD23	1.67	0.77
1:C:597:ALA:HB1	1:C:627:PHE:CE1	2.20	0.77
1:I:2364:THR:HG21	1:I:2415:VAL:HG11	1.66	0.77
1:K:2894:PHE:HD1	1:K:2920:ILE:HD11	1.45	0.77
1:G:1948:LEU:HD12	2:H:2217:ALA:HB3	1.65	0.77
2:H:2035:ILE:HD12	2:H:2043:VAL:HG13	1.66	0.77
1:I:2422:GLU:HB3	1:I:2426:GLN:OE1	1.84	0.77
1:I:2423:LEU:HD21	1:I:2457:LEU:CD2	2.13	0.77
2:J:2606:ILE:CG1	2:J:2674:PRO:HG3	2.14	0.77
1:E:1337:ARG:O	1:E:1341:VAL:HG23	1.84	0.77
1:K:3053:PHE:O	1:K:3057:LYS:HG2	1.85	0.77
2:B:523:LEU:HG	2:B:526:ILE:HB	1.66	0.77
1:C:747:GLY:HA2	1:C:750:PHE:CE2	2.20	0.77
2:D:924:TYR:HB2	2:D:960:LEU:HD11	1.64	0.77
1:I:2552:LEU:HD13	1:I:2553:GLN:N	2.00	0.77
2:J:2604:ARG:HH11	2:J:2670:ALA:HB1	1.48	0.77
1:A:8:SER:HA	1:A:11:LYS:NZ	1.99	0.77
2:B:441:THR:OG1	2:B:451:LEU:HD11	1.83	0.77
2:F:1502:ARG:HG3	2:F:1547:LEU:HD23	1.67	0.77
1:G:1860:SER:HA	1:G:1883:LEU:HD11	1.64	0.77
2:B:466:THR:O	2:B:469:VAL:HG12	1.85	0.77
2:D:893:ILE:HD11	2:D:902:GLN:O	1.83	0.77
1:E:1296:LEU:HD23	1:E:1307:LEU:HD13	1.66	0.77
1:A:214:ALA:HB1	1:K:3094:ARG:CB	2.14	0.77
2:D:914:ARG:CG	2:D:919:GLN:HB2	2.14	0.77
2:D:1015:ALA:HB1	2:D:1020:LEU:CD1	2.14	0.77
2:D:1094:LEU:HB2	1:E:1363:ALA:HB2	1.66	0.77
1:E:1221:ILE:HG23	1:E:1231:ASN:HD21	1.50	0.77
1:E:1373:ALA:CB	1:E:1377:LEU:HD12	2.15	0.77
2:F:1486:ILE:HD11	2:F:1490:GLN:NE2	1.99	0.77
1:G:1749:ALA:O	1:G:1763:VAL:HG12	1.85	0.77
1:G:1948:LEU:CD1	2:H:2214:GLU:HA	2.12	0.77
1:I:2293:ILE:O	1:I:2293:ILE:HD13	1.85	0.77
1:I:2383:VAL:CG2	1:I:2386:GLN:HB2	2.15	0.77
2:J:2604:ARG:NH1	2:J:2670:ALA:HB1	1.99	0.77
1:K:2974:LEU:HB2	1:K:2975:PRO:HD3	1.66	0.77
2:B:514:LEU:O	2:B:514:LEU:HD22	1.84	0.76
2:D:1022:LEU:HD21	2:D:1025:VAL:CG1	2.14	0.76
2:D:1085:LEU:HD12	2:D:1085:LEU:O	1.86	0.76
1:E:1380:LEU:HB2	2:F:1649:ALA:CB	2.15	0.76
2:F:1615:GLN:O	2:F:1619:GLN:HG3	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1948:LEU:HD11	2:H:2214:GLU:CA	2.15	0.76
1:I:2314:VAL:CG1	1:I:2336:GLU:HA	2.15	0.76
2:J:2646:ILE:HG21	2:J:2693:VAL:HG21	1.67	0.76
2:J:2821:ALA:CB	1:K:3105:GLN:HG2	2.15	0.76
1:K:2981:ILE:HD11	1:K:3009:LEU:HD23	1.66	0.76
1:E:1380:LEU:HB2	2:F:1649:ALA:HB2	1.68	0.76
1:G:1878:LEU:HD21	1:G:1881:VAL:HG22	1.67	0.76
1:A:97:ARG:HG3	1:A:98:PRO:N	1.96	0.76
2:D:1094:LEU:HG	1:E:1363:ALA:HB2	1.65	0.76
1:E:1276:PHE:HE2	1:E:1288:VAL:HG23	1.50	0.76
1:I:2475:GLN:O	1:I:2479:ARG:HG2	1.84	0.76
2:J:2607:PHE:HE1	2:J:2620:LEU:HD11	1.48	0.76
1:K:2892:VAL:HG12	1:K:2920:ILE:HB	1.67	0.76
1:E:1391:TYR:O	1:E:1395:ARG:HG2	1.86	0.76
1:I:2438:LEU:HD23	1:I:2438:LEU:O	1.86	0.76
2:D:1061:LYS:HA	2:D:1064:GLN:NE2	2.01	0.76
1:E:1179:VAL:HB	1:E:1245:LEU:HD12	1.67	0.76
2:H:2195:ALA:HA	2:H:2198:LEU:HD21	1.68	0.76
1:K:3020:LEU:CD2	1:K:3023:VAL:HG23	2.15	0.76
1:E:1179:VAL:HB	1:E:1245:LEU:HD11	1.67	0.76
1:E:1182:ASP:OD1	1:E:1204:GLN:HB3	1.85	0.76
1:G:1944:ALA:CB	1:G:1948:LEU:HD22	2.15	0.76
2:H:2129:VAL:HG13	2:H:2148:LEU:HD23	1.66	0.76
1:A:238:LEU:HB3	2:B:503:GLU:O	1.85	0.76
1:A:238:LEU:CD2	2:B:507:ALA:HB2	2.16	0.76
1:C:816:GLU:HG2	1:C:820:TYR:CE1	2.21	0.76
1:E:1377:LEU:CD2	2:F:1646:ALA:HB1	2.14	0.76
1:G:1839:ILE:O	1:G:1839:ILE:HD13	1.85	0.76
1:G:1909:ALA:O	1:G:1912:VAL:HG12	1.86	0.76
2:J:2608:PHE:CE2	2:J:2633:TYR:HB3	2.21	0.76
1:K:2969:TYR:CE2	1:K:3018:LEU:HD11	2.21	0.76
1:A:221:ALA:HB2	1:K:3093:LEU:HG	1.66	0.76
2:J:2680:LEU:CD2	2:J:2684:TYR:HA	2.09	0.76
1:C:725:LEU:HD22	1:C:736:LEU:CD2	2.16	0.76
1:C:725:LEU:HD22	1:C:736:LEU:HD21	1.66	0.76
2:H:2176:ARG:O	2:H:2179:THR:HG22	1.86	0.76
2:B:383:ARG:O	2:B:450:ILE:HG22	1.86	0.75
2:H:2249:ILE:O	2:H:2249:ILE:HD13	1.85	0.75
1:A:19:ALA:O	1:A:22:VAL:HG22	1.87	0.75
2:B:336:LEU:HD22	2:B:343:ARG:NH2	2.01	0.75
2:D:861:GLY:O	2:D:864:THR:HG22	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2958:LEU:HD13	1:K:2961:ILE:CD1	2.17	0.75
1:K:3079:ILE:O	1:K:3083:LEU:HG	1.86	0.75
2:B:290:GLY:O	2:B:293:THR:HG22	1.86	0.75
1:C:826:ARG:HG3	1:C:827:ASN:H	1.50	0.75
2:D:1094:LEU:CB	1:E:1363:ALA:HB2	2.16	0.75
2:D:976:LEU:HB2	2:D:977:PRO:HD3	1.66	0.75
1:C:590:ALA:O	1:C:593:VAL:HG12	1.87	0.75
2:F:1603:PHE:HB2	2:F:1606:GLU:HB2	1.68	0.75
2:H:2236:LEU:CD1	2:H:2239:ILE:HD12	2.16	0.75
1:I:2512:LEU:CD1	1:I:2520:ILE:HA	2.14	0.75
2:J:2740:ILE:HD12	2:J:2743:LEU:HD21	1.67	0.75
1:E:1380:LEU:O	1:E:1380:LEU:HD13	1.87	0.75
2:F:1665:LEU:HD22	1:G:1931:SER:CA	2.16	0.75
1:K:2912:LEU:HD21	1:K:2919:PRO:HG3	1.67	0.75
1:E:1170:TYR:CZ	1:E:1206:PRO:HB2	2.22	0.75
2:H:2035:ILE:CD1	2:H:2043:VAL:HG13	2.16	0.75
2:J:2808:ARG:HG2	1:K:3069:ALA:CB	2.16	0.75
2:B:400:TYR:O	2:B:404:VAL:HG12	1.86	0.75
2:H:2222:MET:HG3	1:I:2491:LYS:NZ	2.02	0.75
2:J:2653:LYS:HD2	2:J:2653:LYS:O	1.86	0.75
1:A:114:TYR:O	1:A:118:VAL:HG22	1.86	0.75
1:C:657:GLN:HE21	1:C:657:GLN:HA	1.52	0.75
2:D:971:TYR:CE1	2:D:1020:LEU:HD23	2.22	0.75
2:F:1665:LEU:HB3	1:G:1931:SER:HA	1.66	0.75
1:G:1856:ARG:O	1:G:1859:VAL:HG12	1.85	0.75
2:H:2075:ILE:HD13	2:H:2122:VAL:HG11	1.69	0.75
1:I:2380:PHE:CE1	1:I:2449:LEU:HB2	2.21	0.75
1:A:45:VAL:HG21	1:A:107:PHE:CD2	2.22	0.74
1:A:215:GLU:CB	1:K:3090:LEU:HD11	2.16	0.74
1:C:667:PHE:CZ	1:C:690:LEU:HD12	2.21	0.74
2:F:1665:LEU:HD21	1:G:1928:GLU:HA	1.69	0.74
2:H:2138:LEU:HD21	2:H:2172:LEU:HD23	1.69	0.74
2:J:2805:ILE:HG23	2:J:2808:ARG:HH12	1.52	0.74
2:B:429:ARG:O	2:B:432:VAL:HG12	1.86	0.74
2:D:872:ALA:O	2:D:875:VAL:HG12	1.86	0.74
1:E:1376:GLY:HA3	2:F:1650:LYS:HE2	1.68	0.74
1:K:3113:THR:HG22	1:K:3114:TYR:H	1.51	0.74
1:G:1750:VAL:CG2	1:G:1816:LEU:HG	2.17	0.74
2:H:2035:ILE:HG23	2:H:2064:ILE:CD1	2.17	0.74
2:J:2602:GLY:O	2:J:2639:ILE:HB	1.85	0.74
2:D:866:LEU:O	2:D:870:LEU:HD13	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1665:LEU:CD1	1:G:1930:ASP:HB2	2.18	0.74
2:J:2670:ALA:O	2:J:2673:LEU:HD23	1.86	0.74
1:A:74:ARG:HB2	1:A:96:PHE:CE2	2.15	0.74
2:B:369:LYS:O	2:B:369:LYS:HD3	1.88	0.74
2:H:2236:LEU:HD22	1:I:2505:ALA:HA	1.67	0.74
1:I:2508:ILE:CD1	2:J:2781:ILE:HG12	2.17	0.74
1:A:110:ILE:HD11	1:A:114:TYR:HB3	1.69	0.74
1:A:144:GLU:HG3	1:A:145:LEU:HD22	1.69	0.74
1:C:806:LEU:HD11	2:D:1072:GLU:HB3	1.69	0.74
1:I:2380:PHE:CD1	1:I:2447:LEU:HD23	2.22	0.74
1:I:2442:ALA:O	1:I:2447:LEU:HD13	1.88	0.74
2:D:893:ILE:HG23	2:D:922:ILE:HD11	1.69	0.74
2:F:1579:ARG:HA	2:F:1582:LEU:HD21	1.70	0.74
2:H:2222:MET:HG3	1:I:2491:LYS:HZ1	1.53	0.74
1:C:611:ASP:HB3	1:C:614:ARG:HB2	1.69	0.74
2:D:864:THR:O	2:D:868:LEU:HG	1.87	0.74
2:D:915:ILE:HG23	2:D:919:GLN:CD	2.07	0.74
1:E:1231:ASN:C	1:E:1232:ILE:HD12	2.08	0.74
1:E:1325:VAL:O	1:E:1328:LYS:HG2	1.88	0.74
2:F:1531:LEU:HB2	2:F:1532:PRO:HD3	1.68	0.74
2:F:1538:LEU:HB3	2:F:1542:TYR:HB3	1.68	0.74
1:A:78:VAL:HG13	1:A:90:ILE:CD1	2.17	0.74
1:A:253:ARG:HE	1:K:3111:ASN:H	1.35	0.74
2:B:396:LEU:HG	2:B:400:TYR:CD1	2.22	0.74
1:E:1269:LEU:HD23	1:E:1292:VAL:HG21	1.69	0.74
1:E:1384:GLU:HB2	2:F:1645:GLU:OE2	1.88	0.74
2:F:1660:PRO:O	2:F:1663:ILE:HG22	1.87	0.74
2:H:2032:HIS:O	2:H:2033:ARG:HD2	1.87	0.74
1:I:2522:LEU:HG	2:J:2787:GLU:CB	2.18	0.74
2:B:354:ASP:OD1	2:B:356:ARG:HG3	1.86	0.74
1:C:661:ILE:CG2	1:C:698:LEU:HD21	2.18	0.74
2:F:1665:LEU:HD23	1:G:1931:SER:HB3	1.69	0.74
2:J:2798:LEU:HD21	2:J:2805:ILE:CG1	2.13	0.74
1:K:2949:ILE:CD1	1:K:2951:PHE:HE2	2.00	0.74
1:A:48:ILE:HD12	1:A:48:ILE:O	1.86	0.73
2:B:332:GLN:HA	2:B:390:PRO:HB3	1.70	0.73
1:C:746:PHE:HB2	1:C:749:GLU:CD	2.08	0.73
2:H:2136:SER:O	2:H:2139:ILE:HG22	1.87	0.73
2:J:2807:LEU:HG	1:K:3076:ALA:HB2	1.68	0.73
2:B:301:ALA:O	2:B:304:VAL:HG12	1.88	0.73
2:B:383:ARG:O	2:B:449:LEU:HD22	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:906:ILE:HD13	2:D:957:ALA:O	1.87	0.73
2:F:1653:GLY:O	2:F:1656:LEU:HG	1.88	0.73
2:H:2153:LEU:HD23	2:H:2164:LEU:HD13	1.68	0.73
2:J:2828:TYR:HD2	2:J:2830:THR:HG23	1.53	0.73
1:K:2969:TYR:O	1:K:2973:VAL:HG22	1.87	0.73
1:A:221:ALA:CB	1:K:3093:LEU:HB2	2.18	0.73
2:F:1474:GLN:HA	2:F:1532:PRO:HB3	1.70	0.73
2:B:460:SER:OG	2:B:465:TYR:HB2	1.88	0.73
1:A:238:LEU:HD13	2:B:507:ALA:HB2	1.69	0.73
1:C:670:VAL:CG1	1:C:673:GLN:HG2	2.18	0.73
2:D:1092:ILE:HD13	2:D:1092:ILE:O	1.88	0.73
2:F:1464:ILE:HD12	2:F:1532:PRO:HA	1.69	0.73
2:F:1582:LEU:CD2	2:F:1596:VAL:HG11	2.17	0.73
2:H:2037:PHE:HD2	2:H:2043:VAL:HG22	1.53	0.73
2:H:2089:ILE:HD12	2:H:2172:LEU:CG	2.18	0.73
1:I:2312:TYR:CE1	1:I:2348:PRO:HG2	2.23	0.73
1:I:2523:ARG:CB	2:J:2784:ALA:HB1	2.18	0.73
1:C:665:ILE:HG22	1:C:667:PHE:HD1	1.54	0.73
1:C:685:TYR:O	1:C:689:VAL:HG12	1.89	0.73
2:D:869:LEU:HD23	2:D:869:LEU:O	1.89	0.73
2:F:1665:LEU:HD11	1:G:1927:ALA:O	1.88	0.73
2:H:2234:ILE:HD12	2:H:2235:LYS:N	2.04	0.73
1:I:2423:LEU:HD21	1:I:2457:LEU:HD21	1.70	0.73
2:J:2685:GLU:HG3	2:J:2686:GLU:N	2.01	0.73
2:J:2804:TYR:O	2:J:2808:ARG:HG3	1.87	0.73
1:A:238:LEU:CD1	2:B:507:ALA:HB2	2.18	0.73
2:B:299:LEU:O	2:B:299:LEU:HD13	1.88	0.73
1:A:207:LYS:CD	1:K:3075:ALA:HB2	2.17	0.73
1:C:697:ILE:O	1:C:701:VAL:HG23	1.89	0.73
2:J:2662:LEU:CD1	2:J:2740:ILE:HG22	2.19	0.73
1:A:238:LEU:HD22	2:B:507:ALA:CB	2.18	0.73
2:F:1711:GLY:C	2:F:1712:LYS:HE3	2.08	0.73
1:G:1941:LEU:CD2	1:G:1949:ILE:HB	2.19	0.73
2:J:2805:ILE:HA	2:J:2808:ARG:NH1	2.04	0.73
2:B:461:PHE:CB	2:B:464:GLU:HB3	2.18	0.72
2:B:523:LEU:HD13	1:C:792:ALA:CB	2.17	0.72
2:D:914:ARG:HG2	2:D:919:GLN:CB	2.18	0.72
2:D:1022:LEU:HD21	2:D:1025:VAL:HG11	1.70	0.72
1:E:1248:ILE:HD13	1:E:1248:ILE:H	1.54	0.72
1:G:1874:PHE:HB3	1:G:1876:LEU:HD13	1.71	0.72
1:G:1955:GLU:HG2	2:H:2216:GLU:OE1	1.88	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2028:VAL:CG2	2:H:2051:GLU:HA	2.18	0.72
2:H:2236:LEU:HD22	1:I:2505:ALA:CB	2.19	0.72
1:I:2461:LYS:O	1:I:2464:THR:HG22	1.89	0.72
2:J:2662:LEU:CD2	2:J:2697:LEU:HD22	2.19	0.72
2:J:2673:LEU:HD13	2:J:2676:MET:HE2	1.70	0.72
1:K:2988:ARG:HB3	1:K:2988:ARG:HH11	1.54	0.72
1:C:698:LEU:O	1:C:702:VAL:HG23	1.90	0.72
1:E:1370:LEU:CG	1:E:1378:ILE:HB	2.19	0.72
2:F:1528:ALA:HA	2:F:1531:LEU:HD21	1.70	0.72
1:G:1816:LEU:HG	1:G:1817:PRO:HD3	1.70	0.72
1:G:1944:ALA:HB1	1:G:1948:LEU:HB2	1.71	0.72
2:H:2079:THR:HG23	2:H:2127:LYS:HG3	1.68	0.72
1:I:2372:VAL:HG13	1:I:2457:LEU:HD21	1.71	0.72
2:J:2606:ILE:HD13	2:J:2607:PHE:H	1.53	0.72
1:K:2961:ILE:HG13	1:K:2962:PHE:N	2.04	0.72
1:A:127:LEU:O	1:A:131:VAL:HG23	1.90	0.72
2:B:357:ALA:HB2	2:B:383:ARG:HD3	1.72	0.72
1:G:1946:ASP:O	1:G:1949:ILE:HG22	1.89	0.72
1:C:802:ALA:HB1	1:C:806:LEU:HB2	1.71	0.72
1:C:810:ARG:CB	2:D:1071:ALA:HB1	2.19	0.72
2:F:1497:ILE:O	2:F:1497:ILE:HD13	1.88	0.72
2:F:1603:PHE:CD2	2:F:1606:GLU:HB2	2.25	0.72
1:G:1823:ILE:HD13	1:G:1831:VAL:CG2	2.19	0.72
2:H:2040:ILE:HG13	2:H:2060:PHE:CZ	2.24	0.72
2:H:2146:SER:HB2	2:H:2169:ILE:HD12	1.70	0.72
2:J:2811:ARG:CD	1:K:3068:SER:HB3	2.19	0.72
2:D:984:LEU:CD2	2:D:1007:ILE:HD12	2.20	0.72
1:E:1373:ALA:HB1	1:E:1377:LEU:HB2	1.71	0.72
2:F:1665:LEU:CB	1:G:1931:SER:CA	2.59	0.72
1:K:2988:ARG:HB3	1:K:2988:ARG:NH1	2.04	0.72
1:K:3020:LEU:CD1	1:K:3023:VAL:HG23	2.19	0.72
1:A:95:LEU:O	1:A:165:LEU:HD12	1.90	0.72
1:A:165:LEU:HD11	1:A:167:ASP:O	1.88	0.72
1:C:681:ILE:HG13	1:C:685:TYR:HB3	1.71	0.72
2:J:2616:GLN:HA	2:J:2674:PRO:CB	2.20	0.72
1:K:3051:ALA:O	1:K:3054:VAL:HG22	1.88	0.72
1:A:238:LEU:HB2	2:B:507:ALA:CB	2.20	0.72
1:E:1380:LEU:HD12	2:F:1645:GLU:CA	2.20	0.72
2:F:1641:GLN:HG2	2:F:1645:GLU:OE2	1.90	0.72
2:H:2236:LEU:HD11	2:H:2239:ILE:CD1	2.20	0.72
1:C:583:PHE:O	1:C:587:LEU:HG	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:915:ILE:H	2:D:919:GLN:HG3	1.54	0.72
1:E:1241:VAL:HG12	1:E:1244:GLN:CB	2.20	0.72
1:C:674:LEU:O	1:C:677:ILE:HG13	1.90	0.71
1:E:1380:LEU:CB	2:F:1649:ALA:HB2	2.19	0.71
1:I:2437:ASP:O	1:I:2440:GLU:HG2	1.90	0.71
2:J:2779:GLN:O	2:J:2782:VAL:HG22	1.90	0.71
1:K:3086:ALA:CB	1:K:3090:LEU:HD22	2.18	0.71
1:A:139:LEU:CD2	1:A:173:LEU:HD23	2.20	0.71
1:C:701:VAL:CG2	1:C:720:GLN:HE22	2.02	0.71
1:C:766:ARG:HA	1:C:769:PHE:CD2	2.25	0.71
2:D:992:ASN:OD1	2:D:995:GLN:HG2	1.90	0.71
2:F:1586:ALA:O	2:F:1591:LEU:HD23	1.90	0.71
1:G:1812:VAL:CG1	1:G:1815:GLN:HB2	2.20	0.71
2:J:2606:ILE:HD13	2:J:2607:PHE:N	2.04	0.71
2:J:2807:LEU:HB3	1:K:3072:ASP:O	1.90	0.71
1:K:2922:PHE:CE1	1:K:2958:LEU:HD12	2.25	0.71
1:A:110:ILE:HG13	1:A:114:TYR:CA	2.20	0.71
1:I:2511:SER:O	1:I:2514:THR:HG22	1.90	0.71
1:A:217:ASP:O	1:K:3093:LEU:HB3	1.88	0.71
2:B:461:PHE:HB2	2:B:464:GLU:CB	2.20	0.71
2:D:906:ILE:HD11	2:D:958:GLN:O	1.91	0.71
2:F:1712:LYS:HE3	2:F:1712:LYS:N	2.04	0.71
1:I:2321:VAL:HG11	1:I:2391:PHE:HD2	1.55	0.71
1:I:2398:TYR:O	1:I:2402:VAL:HG22	1.89	0.71
2:J:2606:ILE:HB	2:J:2637:TYR:HE2	1.54	0.71
2:J:2713:ARG:O	2:J:2716:VAL:HG12	1.90	0.71
1:A:37:VAL:CG2	1:A:65:ILE:HB	2.21	0.71
2:F:1538:LEU:HD11	2:F:1545:ARG:HB2	1.73	0.71
2:F:1563:ASN:OD1	2:F:1566:GLN:HB2	1.91	0.71
2:J:2805:ILE:HA	2:J:2808:ARG:HH11	1.55	0.71
1:K:3009:LEU:O	1:K:3009:LEU:HD13	1.90	0.71
1:A:238:LEU:HD13	2:B:507:ALA:CB	2.20	0.71
2:F:1686:TYR:O	2:F:1687:LEU:HD22	1.91	0.71
2:J:2745:PHE:HB2	2:J:2748:GLU:HB2	1.73	0.71
1:A:11:LYS:HA	1:A:14:LEU:HD21	1.71	0.71
1:G:1816:LEU:CG	1:G:1817:PRO:HD3	2.20	0.71
1:K:3052:ARG:O	1:K:3055:VAL:HG22	1.89	0.71
2:B:514:LEU:CB	2:B:521:ILE:HD11	2.19	0.71
1:E:1384:GLU:HB2	2:F:1645:GLU:CD	2.11	0.71
1:I:2431:SER:OG	1:I:2454:LEU:HD13	1.90	0.71
2:B:523:LEU:HD22	1:C:792:ALA:CB	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:691:PRO:O	1:C:695:THR:HG23	1.89	0.71
1:C:802:ALA:CB	1:C:806:LEU:HD13	2.21	0.71
1:C:806:LEU:HD11	2:D:1072:GLU:CB	2.20	0.71
2:D:914:ARG:CD	2:D:919:GLN:HB2	2.21	0.71
1:E:1370:LEU:HD11	1:E:1378:ILE:CB	2.20	0.71
1:I:2431:SER:O	1:I:2434:VAL:HG12	1.90	0.71
2:J:2804:TYR:CE1	1:K:3070:GLU:HG3	2.25	0.71
1:A:143:ARG:O	1:A:146:VAL:HG12	1.91	0.71
1:C:576:VAL:O	1:C:580:ILE:HG12	1.91	0.71
2:F:1555:LEU:O	2:F:1559:VAL:HG23	1.90	0.71
2:F:1600:GLU:HG2	2:F:1600:GLU:O	1.91	0.71
1:G:1951:LEU:HD13	2:H:2216:GLU:CG	2.20	0.71
2:H:2033:ARG:HG2	2:H:2068:ILE:HG12	1.73	0.71
2:H:2095:SER:CB	2:H:2162:LEU:HD21	2.19	0.71
2:H:2121:ILE:HD11	2:H:2160:PHE:CD2	2.26	0.71
1:I:2522:LEU:CB	2:J:2791:ALA:HB2	2.16	0.71
2:J:2793:MET:SD	1:K:3066:ILE:HD11	2.29	0.71
1:C:649:VAL:HG12	1:C:661:ILE:HG23	1.73	0.70
2:F:1477:ILE:HD11	2:F:1532:PRO:CD	2.21	0.70
1:G:1813:ALA:O	1:G:1816:LEU:HD22	1.92	0.70
2:H:2236:LEU:HD22	1:I:2505:ALA:HB2	1.73	0.70
1:I:2286:ALA:O	1:I:2289:VAL:HG12	1.91	0.70
1:A:9:ILE:HA	1:A:12:PHE:HD2	1.55	0.70
1:A:90:ILE:H	1:A:90:ILE:HD13	1.56	0.70
2:H:2222:MET:O	2:H:2225:GLU:HG3	1.91	0.70
2:J:2667:ARG:HG3	2:J:2734:ILE:CG2	2.21	0.70
1:K:2982:LEU:O	1:K:2982:LEU:HD23	1.91	0.70
1:K:3086:ALA:CB	1:K:3090:LEU:HD13	2.21	0.70
2:B:523:LEU:HD12	2:B:526:ILE:CD1	2.20	0.70
1:E:1213:SER:HB3	1:E:1239:ARG:HD2	1.72	0.70
1:I:2303:ALA:O	1:I:2306:VAL:HG12	1.90	0.70
1:A:151:SER:HA	1:A:168:VAL:HG11	1.74	0.70
1:C:713:GLN:HG3	1:C:716:LEU:HB3	1.74	0.70
1:C:816:GLU:HG2	1:C:820:TYR:HE1	1.56	0.70
1:C:838:LEU:O	1:C:839:LEU:HD23	1.91	0.70
2:D:978:SER:OG	2:D:979:ILE:HD12	1.90	0.70
1:G:1805:LEU:HD22	1:G:1840:LEU:HD21	1.73	0.70
1:I:2422:GLU:O	1:I:2426:GLN:HG2	1.91	0.70
1:I:2526:GLU:HB2	2:J:2787:GLU:CG	2.16	0.70
2:J:2798:LEU:HD11	2:J:2805:ILE:N	2.06	0.70
1:A:57:LEU:O	1:A:59:PRO:HD3	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:388:GLU:HG2	2:B:448:SER:OG	1.91	0.70
2:D:1089:PRO:O	2:D:1092:ILE:HG22	1.91	0.70
1:E:1381:ARG:HG3	2:F:1642:ALA:HB1	1.73	0.70
1:K:3040:ALA:O	1:K:3043:VAL:HG22	1.92	0.70
2:B:385:ASN:HD21	2:B:388:GLU:HB3	1.54	0.70
2:B:451:LEU:HD12	2:B:451:LEU:O	1.91	0.70
1:C:661:ILE:HD11	1:C:741:LEU:HD22	1.73	0.70
2:F:1538:LEU:HD12	2:F:1542:TYR:HA	1.74	0.70
1:G:1904:GLN:HA	1:G:1907:GLU:OE2	1.91	0.70
1:I:2358:ARG:HA	1:I:2358:ARG:HE	1.56	0.70
1:K:2969:TYR:HE2	1:K:3018:LEU:HD11	1.55	0.70
1:C:809:LEU:CB	2:D:1078:ALA:HB2	2.20	0.70
1:C:831:LEU:HD23	1:C:831:LEU:H	1.57	0.70
1:E:1380:LEU:HD23	2:F:1649:ALA:CB	2.21	0.70
2:F:1531:LEU:HD13	2:F:1534:MET:SD	2.31	0.70
2:F:1531:LEU:HA	2:F:1534:MET:CG	2.22	0.70
1:G:1808:LEU:O	1:G:1878:LEU:HD12	1.91	0.70
1:G:1819:ILE:HG23	1:G:1827:TYR:CD1	2.27	0.70
1:G:1928:GLU:HG3	1:G:1929:GLY:N	2.06	0.70
1:K:2892:VAL:HB	1:K:2922:PHE:CZ	2.26	0.70
2:F:1426:LEU:HD12	2:F:1427:PRO:HD2	1.72	0.70
2:F:1665:LEU:HD11	1:G:1927:ALA:C	2.12	0.70
1:G:1740:LEU:HD11	1:G:1767:THR:OG1	1.92	0.70
2:H:2236:LEU:HD13	1:I:2505:ALA:HB2	1.74	0.70
1:I:2461:LYS:HA	1:I:2461:LYS:HE3	1.74	0.70
1:K:3102:ILE:O	1:K:3106:LEU:HD23	1.91	0.70
1:A:50:VAL:HG21	1:A:55:HIS:CD2	2.25	0.69
2:B:523:LEU:HB2	1:C:792:ALA:CB	2.22	0.69
2:B:523:LEU:HB3	1:C:788:ASP:C	2.12	0.69
2:F:1538:LEU:CD1	2:F:1542:TYR:HA	2.22	0.69
2:H:2096:ARG:O	2:H:2163:ILE:HG12	1.91	0.69
1:I:2522:LEU:HB3	2:J:2787:GLU:C	2.12	0.69
1:A:73:PRO:HA	1:A:95:LEU:HD23	1.74	0.69
1:C:746:PHE:O	1:C:749:GLU:HB2	1.93	0.69
1:C:809:LEU:CD2	1:C:812:LEU:HB2	2.21	0.69
1:G:1933:ALA:O	1:G:1937:ILE:HG13	1.92	0.69
2:H:2079:THR:CG2	2:H:2130:VAL:HG11	2.22	0.69
1:A:59:PRO:O	1:A:60:TRP:HB3	1.92	0.69
1:A:239:ARG:HG3	2:B:500:ALA:HB1	1.72	0.69
1:C:792:ALA:O	1:C:795:ILE:HG22	1.93	0.69
1:E:1170:TYR:OH	1:E:1208:ILE:HG23	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1832:LEU:HB2	1:G:1833:PRO:HD3	1.74	0.69
1:G:1855:GLN:CD	1:G:1858:LEU:HD12	2.12	0.69
1:G:1955:GLU:HG2	2:H:2216:GLU:CD	2.11	0.69
2:J:2662:LEU:HD21	2:J:2697:LEU:CD2	2.23	0.69
2:J:2798:LEU:CG	2:J:2805:ILE:HG12	2.22	0.69
1:K:2947:LEU:CD1	1:K:2982:LEU:HD12	2.22	0.69
2:B:332:GLN:HA	2:B:390:PRO:CB	2.21	0.69
2:B:523:LEU:HD13	1:C:792:ALA:HB2	1.73	0.69
1:E:1345:ALA:O	1:E:1349:LYS:HG2	1.91	0.69
2:H:2010:LEU:O	2:H:2010:LEU:HD23	1.91	0.69
2:H:2236:LEU:CD2	1:I:2505:ALA:HB2	2.22	0.69
1:K:3086:ALA:HB3	1:K:3090:LEU:CD2	2.21	0.69
1:C:609:ILE:HD11	1:C:633:GLN:CG	2.19	0.69
1:C:806:LEU:O	1:C:806:LEU:HD23	1.91	0.69
1:E:1289:SER:O	1:E:1292:VAL:HG12	1.92	0.69
1:G:1745:ALA:HA	1:G:1765:GLU:HG2	1.73	0.69
1:A:197:ARG:O	1:A:200:VAL:HG22	1.93	0.69
1:A:231:ALA:CB	1:A:235:LEU:HD12	2.19	0.69
2:B:295:LEU:HD12	2:B:296:LYS:N	2.07	0.69
1:C:701:VAL:HG22	1:C:720:GLN:HE22	1.58	0.69
1:G:1952:ARG:HB2	2:H:2213:ALA:HB1	1.75	0.69
2:H:2040:ILE:HG13	2:H:2060:PHE:HZ	1.58	0.69
2:H:2250:ALA:HB1	1:I:2535:LEU:HD23	1.73	0.69
1:C:790:LYS:O	1:C:794:LEU:HG	1.92	0.69
2:F:1669:ARG:HB2	1:G:1930:ASP:OD2	1.93	0.69
1:G:1727:LEU:HD13	1:G:1727:LEU:O	1.92	0.69
1:K:2938:LYS:O	1:K:2940:LEU:HD22	1.93	0.69
1:A:103:LEU:HB2	1:A:104:PRO:HD3	1.75	0.69
2:D:947:ILE:HD11	2:D:1027:ILE:CG1	2.23	0.69
2:F:1550:ILE:HG13	2:F:1551:VAL:N	2.07	0.69
1:K:2954:VAL:HG23	1:K:2957:GLN:HB3	1.75	0.69
1:C:725:LEU:O	1:C:725:LEU:HD23	1.93	0.69
2:D:1094:LEU:HD12	2:D:1097:ILE:HG21	1.75	0.69
2:F:1659:ASN:HB2	2:F:1660:PRO:HD2	1.72	0.69
2:F:1665:LEU:CG	2:F:1666:ARG:N	2.54	0.69
2:H:2229:LYS:HB2	2:H:2233:TYR:CZ	2.28	0.69
2:J:2807:LEU:HD23	1:K:3076:ALA:CB	2.23	0.69
1:A:142:GLN:HA	1:A:142:GLN:HE21	1.57	0.68
1:E:1276:PHE:CE2	1:E:1288:VAL:HG23	2.28	0.68
2:F:1447:ALA:O	2:F:1450:VAL:HG12	1.93	0.68
2:H:2035:ILE:HG22	2:H:2064:ILE:HG12	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2236:LEU:CD1	1:I:2505:ALA:HB2	2.23	0.68
2:J:2624:LEU:H	2:J:2624:LEU:CD2	2.04	0.68
1:K:2929:ARG:O	1:K:2949:ILE:HG12	1.93	0.68
2:B:366:THR:HG21	2:B:413:LEU:HD12	1.73	0.68
2:F:1642:ALA:HA	2:F:1645:GLU:CG	2.23	0.68
1:E:1216:ARG:HD2	1:E:1261:LEU:HG	1.74	0.68
1:A:94:ILE:HG12	1:A:168:VAL:HG23	1.76	0.68
2:F:1531:LEU:O	2:F:1534:MET:HG3	1.94	0.68
1:A:65:ILE:HG13	1:A:107:PHE:CZ	2.29	0.68
1:A:106:ILE:HG22	1:A:110:ILE:HD12	1.74	0.68
2:B:523:LEU:CD1	1:C:792:ALA:HB2	2.22	0.68
2:J:2643:PRO:HG3	2:J:2665:LEU:CD1	2.23	0.68
2:B:483:GLN:O	2:B:486:VAL:HG12	1.93	0.68
2:B:520:TYR:O	1:C:789:SER:HB2	1.94	0.68
2:D:1004:SER:O	2:D:1007:ILE:HG22	1.94	0.68
2:F:1464:ILE:CD1	2:F:1532:PRO:HA	2.23	0.68
2:H:2245:ILE:HG13	2:H:2246:SER:N	2.09	0.68
2:H:2279:LEU:CD2	2:H:2281:LYS:HD3	2.23	0.68
1:I:2526:GLU:HG3	2:J:2787:GLU:HG3	1.74	0.68
1:K:2929:ARG:HB2	1:K:2949:ILE:HG13	1.75	0.68
1:A:39:PHE:HE1	1:A:65:ILE:CD1	2.06	0.68
1:A:146:VAL:O	1:A:150:VAL:HG23	1.93	0.68
2:B:523:LEU:CD2	1:C:792:ALA:HB2	2.24	0.68
1:C:710:LEU:CD2	1:C:744:LEU:HD13	2.24	0.68
1:E:1218:VAL:HG11	1:E:1265:THR:HG21	1.75	0.68
2:F:1627:LEU:HD23	2:F:1627:LEU:O	1.92	0.68
2:J:2804:TYR:HE1	1:K:3070:GLU:HG3	1.59	0.68
1:K:3035:THR:O	1:K:3038:VAL:HG22	1.93	0.68
1:E:1339:ARG:O	1:E:1342:VAL:HG22	1.92	0.68
2:F:1579:ARG:HA	2:F:1582:LEU:CD2	2.24	0.68
2:F:1662:TYR:CE2	1:G:1928:GLU:HB2	2.29	0.68
1:I:2489:GLN:HG3	1:I:2490:GLN:N	2.08	0.68
1:A:215:GLU:HA	1:K:3090:LEU:HD11	1.75	0.68
1:C:716:LEU:O	1:C:716:LEU:HD23	1.93	0.68
2:D:876:ALA:O	2:D:879:VAL:HG22	1.94	0.68
1:E:1263:SER:O	1:E:1266:THR:HG22	1.94	0.68
2:F:1662:TYR:CA	2:F:1665:LEU:HD23	2.23	0.68
1:G:1750:VAL:HG23	1:G:1816:LEU:CD1	2.23	0.68
2:H:2066:TYR:OH	2:H:2106:TYR:HB2	1.94	0.68
2:B:543:ILE:CD1	2:H:2256:ILE:HG22	2.24	0.68
1:C:725:LEU:CD2	1:C:736:LEU:HD21	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2504:ALA:O	1:I:2508:ILE:HG12	1.93	0.68
2:J:2767:GLN:O	2:J:2770:VAL:HG22	1.93	0.68
2:J:2798:LEU:HA	2:J:2804:TYR:HD2	1.59	0.68
1:K:3113:THR:HG22	1:K:3114:TYR:N	2.09	0.68
1:A:32:ALA:HA	1:A:52:GLU:HG2	1.75	0.67
1:E:1213:SER:HA	1:E:1239:ARG:CG	2.22	0.67
1:G:1718:VAL:O	1:G:1722:ILE:HG12	1.94	0.67
1:A:63:LYS:HD3	1:A:64:PRO:N	2.10	0.67
2:B:506:ALA:O	2:B:510:LEU:HG	1.94	0.67
2:D:976:LEU:O	2:D:980:VAL:HG23	1.93	0.67
1:G:1752:PHE:HB3	1:G:1776:LYS:HG2	1.76	0.67
2:H:2036:PHE:HE1	2:H:2047:THR:CG2	2.07	0.67
2:J:2604:ARG:HD2	2:J:2639:ILE:CG1	2.24	0.67
1:A:100:ALA:HA	1:A:103:LEU:HD21	1.75	0.67
2:D:922:ILE:HD12	2:D:964:TYR:CE2	2.29	0.67
2:D:1094:LEU:HD13	2:D:1097:ILE:CB	2.19	0.67
1:E:1375:ASP:O	1:E:1378:ILE:HG22	1.95	0.67
2:H:2223:LEU:HD23	2:H:2237:ARG:NH2	2.10	0.67
1:I:2522:LEU:HD23	2:J:2790:ALA:HB3	1.76	0.67
2:J:2724:LEU:HG	2:J:2735:LEU:HD11	1.76	0.67
2:D:971:TYR:HE1	2:D:1020:LEU:CD2	2.07	0.67
1:E:1388:ASP:O	1:E:1392:GLN:HG3	1.93	0.67
2:F:1462:ARG:HH11	2:F:1477:ILE:CG2	2.07	0.67
1:I:2519:LEU:O	1:I:2519:LEU:HD13	1.95	0.67
1:I:2523:ARG:HB2	2:J:2784:ALA:HB1	1.76	0.67
1:K:2891:ALA:HB3	1:K:2905:VAL:HG21	1.74	0.67
2:B:400:TYR:CZ	2:B:404:VAL:HG11	2.30	0.67
1:E:1399:ILE:HB	1:E:1401:TYR:CE2	2.30	0.67
2:F:1477:ILE:CD1	2:F:1532:PRO:HD3	2.25	0.67
1:I:2341:LEU:HD23	1:I:2348:PRO:HD2	1.77	0.67
1:C:710:LEU:HG	1:C:744:LEU:HD13	1.77	0.67
1:E:1361:LYS:O	1:E:1365:LEU:HD23	1.94	0.67
1:I:2522:LEU:HB3	2:J:2787:GLU:O	1.94	0.67
1:A:221:ALA:CB	1:K:3093:LEU:HD12	2.24	0.67
2:B:532:ILE:HD13	2:B:536:ILE:HG12	1.77	0.67
1:E:1269:LEU:O	1:E:1273:VAL:HG23	1.95	0.67
1:G:1878:LEU:HD21	1:G:1881:VAL:CG2	2.24	0.67
1:K:2920:ILE:HG12	1:K:2962:PHE:CZ	2.30	0.67
2:B:523:LEU:HD22	1:C:792:ALA:HB2	1.75	0.67
2:D:1091:TYR:CE2	1:E:1357:GLU:HA	2.30	0.67
2:D:1102:ASN:O	2:D:1106:THR:HG23	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1499:ALA:HB2	2:F:1525:ARG:CD	2.25	0.67
1:I:2442:ALA:HB1	1:I:2447:LEU:HD21	1.76	0.67
1:A:207:LYS:HE3	1:K:3075:ALA:HA	1.76	0.67
1:E:1162:GLY:O	1:E:1165:VAL:HG22	1.95	0.67
2:F:1541:ASP:OD2	2:F:1544:GLU:HB3	1.95	0.67
2:J:2789:GLU:O	2:J:2792:LYS:HG2	1.95	0.67
1:A:32:ALA:HA	1:A:52:GLU:CD	2.15	0.67
1:E:1232:ILE:HG13	1:E:1315:LEU:HD12	1.77	0.67
2:H:2236:LEU:O	1:I:2501:ASP:HB3	1.95	0.67
1:K:3083:LEU:CD2	1:K:3094:ARG:HD3	2.23	0.67
1:C:627:PHE:C	1:C:628:LEU:HD12	2.15	0.66
2:D:1088:ASN:HB2	2:D:1089:PRO:HD2	1.77	0.66
2:D:1091:TYR:HE2	1:E:1357:GLU:HG3	1.59	0.66
2:H:2079:THR:HG21	2:H:2130:VAL:CG1	2.25	0.66
1:K:2912:LEU:HD22	1:K:2919:PRO:HD3	1.76	0.66
1:K:2965:ILE:HG21	1:K:2969:TYR:HA	1.77	0.66
1:K:3001:VAL:O	1:K:3005:VAL:HG23	1.95	0.66
1:A:221:ALA:HB2	1:K:3093:LEU:CD1	2.25	0.66
1:C:786:GLU:O	1:C:789:SER:HB3	1.93	0.66
1:C:802:ALA:HB1	1:C:806:LEU:CB	2.25	0.66
1:G:1823:ILE:HD11	1:G:1827:TYR:CA	2.23	0.66
1:I:2522:LEU:HD23	2:J:2787:GLU:O	1.96	0.66
2:J:2700:VAL:HG13	2:J:2719:LEU:HD23	1.77	0.66
2:B:449:LEU:HD13	2:B:450:ILE:N	2.11	0.66
2:D:895:PHE:CE1	2:D:920:TYR:HB3	2.31	0.66
2:F:1528:ALA:HA	2:F:1531:LEU:CD2	2.25	0.66
2:H:2111:LEU:H	2:H:2111:LEU:CD2	2.07	0.66
2:J:2610:ARG:HG3	2:J:2631:PHE:O	1.95	0.66
1:K:2890:ARG:HG3	1:K:2905:VAL:O	1.96	0.66
1:A:196:ALA:O	1:A:199:VAL:HG22	1.94	0.66
1:A:224:ILE:O	1:A:228:LEU:HD13	1.94	0.66
2:B:514:LEU:HB2	2:B:521:ILE:CG1	2.26	0.66
2:D:1114:ILE:HG22	2:D:1115:TYR:N	2.10	0.66
1:E:1176:HIS:CD2	1:E:1208:ILE:HD12	2.31	0.66
1:A:100:ALA:HA	1:A:103:LEU:CD2	2.26	0.66
2:B:523:LEU:HD23	1:C:788:ASP:OD1	1.95	0.66
1:E:1236:ILE:HD12	1:E:1310:VAL:HG22	1.76	0.66
2:F:1662:TYR:HA	2:F:1665:LEU:HD23	1.76	0.66
2:F:1665:LEU:HD22	1:G:1931:SER:N	2.11	0.66
1:G:1805:LEU:HD11	1:G:1881:VAL:CG1	2.26	0.66
1:G:1836:THR:O	1:G:1840:LEU:HG	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2670:ALA:HA	2:J:2673:LEU:HD21	1.76	0.66
1:E:1170:TYR:CE1	1:E:1206:PRO:HB2	2.30	0.66
1:G:1812:VAL:CG1	1:G:1815:GLN:HG3	2.25	0.66
1:A:103:LEU:HA	1:A:106:ILE:HD12	1.76	0.66
1:A:207:LYS:HE3	1:K:3075:ALA:CA	2.26	0.66
1:E:1377:LEU:CB	2:F:1646:ALA:HB1	2.25	0.66
2:F:1466:PHE:HD1	2:F:1472:VAL:HG12	1.60	0.66
1:G:1860:SER:HB2	1:G:1883:LEU:HD13	1.77	0.66
2:J:2585:ALA:O	2:J:2588:VAL:HG22	1.96	0.66
1:A:43:ARG:HH11	1:A:43:ARG:CB	2.07	0.66
1:C:628:LEU:HD21	1:C:635:PRO:HG2	1.77	0.66
1:C:668:ARG:O	1:C:735:ILE:HD13	1.96	0.66
2:D:916:PRO:O	2:D:917:TRP:HB2	1.95	0.66
2:D:971:TYR:OH	2:D:1020:LEU:HB3	1.96	0.66
2:F:1665:LEU:HD13	1:G:1930:ASP:C	2.15	0.66
1:G:1955:GLU:HG2	2:H:2216:GLU:CB	2.23	0.66
1:K:2882:LEU:HD21	1:K:2909:THR:HB	1.78	0.66
1:K:2922:PHE:CG	1:K:2958:LEU:HD12	2.31	0.66
1:A:207:LYS:HD2	1:K:3075:ALA:CB	2.24	0.66
2:B:523:LEU:HB3	1:C:788:ASP:O	1.95	0.66
2:D:893:ILE:CG2	2:D:922:ILE:HG13	2.25	0.66
2:H:2172:LEU:N	2:H:2172:LEU:HD12	2.11	0.66
1:I:2312:TYR:CZ	1:I:2341:LEU:HD21	2.31	0.66
1:I:2479:ARG:NH1	1:I:2479:ARG:HA	2.11	0.66
2:J:2841:GLU:HG2	2:J:2842:SER:N	2.11	0.66
1:A:43:ARG:HB2	1:A:43:ARG:NH1	2.11	0.66
1:A:221:ALA:HB2	1:K:3093:LEU:HD12	1.78	0.66
1:C:582:LYS:HG3	1:C:583:PHE:N	2.10	0.66
1:E:1393:LEU:O	1:E:1393:LEU:HD23	1.96	0.66
2:F:1669:ARG:CD	1:G:1926:SER:HB2	2.26	0.66
1:I:2316:ALA:HA	1:I:2336:GLU:HG2	1.78	0.66
1:A:126:ILE:HD11	1:A:157:ARG:HD2	1.76	0.65
1:A:259:TYR:CE2	2:J:2829:LEU:HG	2.31	0.65
1:C:724:ASP:O	1:C:728:ARG:HG2	1.95	0.65
1:C:746:PHE:HB2	1:C:749:GLU:OE2	1.96	0.65
1:E:1260:VAL:HG22	1:E:1264:ILE:CD1	2.26	0.65
1:K:2912:LEU:CD2	1:K:2919:PRO:HG3	2.26	0.65
1:A:103:LEU:HD13	1:A:106:ILE:CD1	2.26	0.65
1:A:253:ARG:HD3	1:K:3109:SER:O	1.95	0.65
1:A:270:LEU:HD12	1:A:271:PRO:HD2	1.78	0.65
2:B:340:LEU:HD13	2:B:341:HIS:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1177:ARG:CZ	1:E:1193:GLY:HA2	2.27	0.65
2:F:1643:GLU:O	2:F:1646:ALA:HB3	1.96	0.65
1:G:1762:VAL:CG2	1:G:1816:LEU:HD21	2.26	0.65
2:H:2250:ALA:CB	1:I:2535:LEU:HD23	2.27	0.65
1:K:3102:ILE:HG13	1:K:3106:LEU:CD2	2.25	0.65
1:A:39:PHE:CE1	1:A:65:ILE:HD11	2.28	0.65
2:D:915:ILE:N	2:D:919:GLN:HG3	2.11	0.65
2:F:1571:ARG:HB2	2:F:1598:ILE:HD11	1.77	0.65
1:G:1960:ILE:HD12	1:G:1960:ILE:O	1.96	0.65
1:E:1163:GLY:HA2	1:E:1166:ASN:OD1	1.95	0.65
1:E:1222:THR:O	1:E:1230:VAL:HG22	1.96	0.65
1:E:1296:LEU:HG	1:E:1307:LEU:HD11	1.77	0.65
1:I:2353:CYS:O	1:I:2381:ARG:HG3	1.96	0.65
2:J:2599:VAL:HG21	2:J:2621:ALA:O	1.96	0.65
2:J:2811:ARG:HB2	1:K:3072:ASP:OD2	1.96	0.65
2:D:972:GLU:HG2	2:D:973:GLU:N	2.11	0.65
2:D:1117:THR:HG22	2:D:1118:ALA:N	2.12	0.65
1:E:1332:GLN:HA	1:E:1332:GLN:HE21	1.61	0.65
1:A:174:THR:OG1	1:A:175:PHE:HA	1.95	0.65
2:D:893:ILE:HG22	2:D:922:ILE:HG13	1.78	0.65
2:D:895:PHE:CB	2:D:901:VAL:HA	2.26	0.65
2:F:1502:ARG:HG3	2:F:1547:LEU:CD2	2.26	0.65
2:F:1571:ARG:O	2:F:1574:VAL:HG12	1.96	0.65
2:B:325:ASN:ND2	2:B:328:GLY:H	1.94	0.65
1:I:2458:THR:CG2	1:I:2463:PHE:HD2	2.02	0.65
2:B:431:GLN:O	2:B:435:LEU:HG	1.97	0.65
2:B:543:ILE:HD13	2:H:2256:ILE:HG22	1.77	0.65
2:H:2045:GLN:HA	2:H:2103:PRO:CB	2.27	0.65
2:H:2255:ARG:HH22	1:I:2541:ILE:HG22	1.62	0.65
2:H:2256:ILE:HD11	1:I:2542:THR:OG1	1.96	0.65
1:I:2321:VAL:HG11	1:I:2391:PHE:CD2	2.31	0.65
1:A:217:ASP:OD2	1:K:3097:GLU:HB2	1.96	0.65
1:G:1762:VAL:HB	1:G:1816:LEU:HD21	1.77	0.65
1:A:8:SER:HA	1:A:11:LYS:HZ2	1.62	0.65
1:A:61:VAL:HG23	1:A:62:GLN:HG3	1.78	0.65
1:E:1200:ILE:HB	1:E:1204:GLN:OE1	1.97	0.65
2:H:2211:VAL:O	2:H:2214:GLU:HG3	1.97	0.65
1:I:2372:VAL:CG1	1:I:2457:LEU:HD21	2.27	0.65
1:I:2398:TYR:OH	1:I:2447:LEU:HD12	1.96	0.65
1:I:2519:LEU:HD22	2:J:2788:ALA:HB3	1.79	0.65
1:I:2543:TYR:C	1:I:2545:PRO:HD3	2.16	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:459:LEU:H	2:B:459:LEU:CD2	2.10	0.64
1:C:598:LEU:N	1:C:598:LEU:HD23	2.12	0.64
2:F:1460:GLY:O	2:F:1497:ILE:HG22	1.97	0.64
2:F:1566:GLN:HA	2:F:1566:GLN:HE21	1.61	0.64
2:F:1665:LEU:CD2	1:G:1927:ALA:O	2.45	0.64
1:I:2435:SER:CA	1:I:2452:VAL:HG11	2.24	0.64
2:J:2704:PHE:CE2	2:J:2708:GLN:HB3	2.32	0.64
1:A:122:ILE:HG13	1:A:123:THR:N	2.11	0.64
1:A:174:THR:HB	1:A:175:PHE:C	2.18	0.64
2:B:320:ARG:CD	2:B:386:ALA:HB1	2.26	0.64
1:C:809:LEU:HB2	2:D:1078:ALA:HB2	1.78	0.64
2:D:1095:ARG:CG	1:E:1356:ALA:HB1	2.25	0.64
2:F:1538:LEU:O	2:F:1538:LEU:HD13	1.97	0.64
1:K:2981:ILE:CD1	1:K:3009:LEU:HD23	2.27	0.64
2:B:520:TYR:CA	1:C:789:SER:HB2	2.27	0.64
1:E:1268:ILE:HG13	1:E:1269:LEU:N	2.11	0.64
2:H:2236:LEU:HB3	1:I:2501:ASP:C	2.18	0.64
1:I:2376:LEU:HD21	1:I:2454:LEU:HG	1.78	0.64
1:A:37:VAL:HG22	1:A:65:ILE:HB	1.80	0.64
1:A:121:SER:O	1:A:124:THR:HG22	1.97	0.64
1:A:144:GLU:HG3	1:A:145:LEU:CD2	2.28	0.64
2:B:331:GLN:NE2	2:B:331:GLN:HA	2.11	0.64
1:C:827:ASN:HD21	2:D:1110:SER:CA	2.11	0.64
2:D:1094:LEU:HG	1:E:1363:ALA:CB	2.26	0.64
1:E:1217:ASN:OD1	1:E:1219:PRO:HD3	1.97	0.64
1:K:3053:PHE:HB3	1:K:3057:LYS:NZ	2.11	0.64
2:B:364:SER:O	2:B:376:ILE:HD13	1.97	0.64
1:C:810:ARG:HB3	2:D:1071:ALA:HB1	1.79	0.64
1:E:1322:THR:O	1:E:1325:VAL:HG22	1.96	0.64
2:F:1543:GLU:HG3	2:F:1544:GLU:N	2.13	0.64
2:H:2223:LEU:O	2:H:2227:LEU:HG	1.98	0.64
2:D:1091:TYR:CE2	1:E:1357:GLU:HG3	2.32	0.64
1:I:2378:ILE:HG23	1:I:2449:LEU:CD1	2.28	0.64
2:J:2669:ASN:O	2:J:2673:LEU:HD22	1.97	0.64
2:J:2673:LEU:HB2	2:J:2674:PRO:HD3	1.80	0.64
2:J:2685:GLU:HG3	2:J:2686:GLU:H	1.63	0.64
1:C:607:ALA:HB3	1:C:621:VAL:HG11	1.78	0.64
1:C:825:SER:OG	2:D:1110:SER:HB3	1.97	0.64
2:D:1113:ARG:O	2:D:1114:ILE:HD13	1.97	0.64
1:E:1221:ILE:HG23	1:E:1231:ASN:ND2	2.12	0.64
1:E:1272:VAL:HG12	1:E:1276:PHE:CE2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1951:LEU:CD2	1:G:1954:LEU:HD12	2.25	0.64
2:H:2109:LEU:HD21	2:H:2117:VAL:HG11	1.79	0.64
1:I:2544:LEU:HD12	1:I:2544:LEU:N	2.12	0.64
1:K:2970:ASP:O	1:K:2974:LEU:HD23	1.98	0.64
2:F:1599:THR:HG22	2:F:1600:GLU:OE1	1.98	0.64
2:J:2798:LEU:HD11	2:J:2805:ILE:HG12	1.78	0.64
1:A:242:GLU:OE2	2:B:499:GLN:HB3	1.97	0.64
1:C:677:ILE:HD13	1:C:685:TYR:HE2	1.61	0.64
1:E:1190:ILE:H	1:E:1190:ILE:CD1	2.11	0.64
2:F:1669:ARG:HD3	1:G:1926:SER:HB2	1.80	0.64
1:G:1951:LEU:HB3	2:H:2216:GLU:HG2	1.80	0.64
2:H:2137:GLN:HB3	2:H:2141:GLN:HE21	1.62	0.64
2:H:2169:ILE:H	2:H:2169:ILE:CD1	2.10	0.64
2:H:2231:PRO:O	2:H:2234:ILE:HG13	1.98	0.64
1:K:2982:LEU:HD23	1:K:2986:VAL:CG2	2.28	0.64
2:D:1054:GLN:O	2:D:1057:VAL:HG22	1.98	0.64
1:G:1807:ILE:HG13	1:G:1878:LEU:HD11	1.80	0.64
2:B:421:ASN:OD1	2:B:424:GLN:HG2	1.97	0.63
1:E:1261:LEU:HD13	1:E:1261:LEU:O	1.98	0.63
2:J:2807:LEU:CB	1:K:3076:ALA:HB2	2.27	0.63
1:C:827:ASN:HD21	2:D:1110:SER:HB2	1.62	0.63
1:G:1770:LEU:HD22	1:G:1770:LEU:N	2.14	0.63
2:H:2096:ARG:CG	2:H:2163:ILE:HD11	2.27	0.63
2:J:2828:TYR:C	2:J:2829:LEU:HD22	2.19	0.63
1:A:5:VAL:O	1:A:9:ILE:HG12	1.99	0.63
2:B:320:ARG:HD2	2:B:355:ILE:CD1	2.21	0.63
2:D:1117:THR:HG22	2:D:1118:ALA:H	1.61	0.63
2:F:1662:TYR:O	2:F:1665:LEU:HD23	1.99	0.63
1:G:1932:LYS:HD2	1:G:1936:LEU:HD11	1.80	0.63
1:G:1951:LEU:CD1	2:H:2216:GLU:HG3	2.26	0.63
1:I:2512:LEU:HD13	1:I:2523:ARG:HD3	1.79	0.63
2:J:2590:TYR:O	2:J:2594:GLU:HG3	1.97	0.63
1:A:36:ALA:HB3	1:A:50:VAL:HG12	1.79	0.63
1:A:165:LEU:HD21	1:A:168:VAL:HB	1.79	0.63
1:A:217:ASP:HB3	1:K:3093:LEU:HD22	1.80	0.63
1:C:662:THR:HG22	1:C:742:THR:O	1.99	0.63
2:H:2086:MET:HB2	2:H:2174:PHE:HZ	1.63	0.63
2:H:2109:LEU:CD2	2:H:2117:VAL:HG13	2.28	0.63
2:J:2670:ALA:HA	2:J:2673:LEU:CD2	2.28	0.63
1:K:2985:VAL:HG21	1:K:3005:VAL:HG22	1.81	0.63
1:A:239:ARG:CG	2:B:500:ALA:HB1	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:967:LEU:HD13	2:D:967:LEU:O	1.98	0.63
2:D:1072:GLU:O	2:D:1075:ALA:HB3	1.99	0.63
2:F:1558:VAL:HG21	2:F:1578:ILE:CG2	2.29	0.63
1:I:2398:TYR:OH	1:I:2445:PHE:HB3	1.99	0.63
1:I:2492:LYS:HG2	1:I:2496:ILE:HD11	1.81	0.63
1:A:36:ALA:HB3	1:A:50:VAL:HG11	1.79	0.63
1:A:90:ILE:HD13	1:A:90:ILE:N	2.13	0.63
1:C:810:ARG:HB2	2:D:1071:ALA:HB1	1.81	0.63
1:E:1370:LEU:HD21	1:E:1378:ILE:HB	1.81	0.63
2:H:2105:MET:SD	2:H:2161:SER:HB2	2.38	0.63
1:I:2442:ALA:HB1	1:I:2447:LEU:HD22	1.81	0.63
1:A:110:ILE:HG13	1:A:114:TYR:CB	2.28	0.63
2:D:888:GLY:HA2	2:D:909:GLU:CG	2.19	0.63
1:I:2383:VAL:HG22	1:I:2446:GLY:O	1.99	0.63
1:K:2891:ALA:O	1:K:2905:VAL:HG22	1.98	0.63
1:K:3086:ALA:HB1	1:K:3090:LEU:HB2	1.79	0.63
2:D:963:MET:SD	2:D:967:LEU:HB3	2.38	0.63
1:E:1398:ASN:ND2	2:F:1682:GLN:HG2	2.14	0.63
2:F:1502:ARG:HD3	2:F:1503:LYS:N	2.14	0.63
1:I:2349:ILE:HD11	1:I:2351:PHE:CZ	2.33	0.63
1:I:2403:LEU:HD23	1:I:2403:LEU:O	1.98	0.63
2:J:2793:MET:HG3	1:K:3066:ILE:CD1	2.26	0.63
1:K:2893:ILE:HG23	1:K:2917:GLN:HG2	1.81	0.63
1:A:32:ALA:HA	1:A:52:GLU:CG	2.29	0.63
2:D:893:ILE:HG23	2:D:922:ILE:CD1	2.29	0.63
2:D:947:ILE:HG13	2:D:1027:ILE:HG23	1.80	0.63
1:G:1782:CYS:O	1:G:1810:ARG:HG3	1.99	0.63
1:G:1803:ILE:HD11	1:G:1883:LEU:HB3	1.81	0.63
1:I:2515:ALA:HB1	1:I:2519:LEU:HB2	1.80	0.63
2:J:2804:TYR:OH	1:K:3070:GLU:HB2	1.98	0.63
1:C:782:ILE:O	1:C:786:GLU:HG3	1.98	0.62
2:D:947:ILE:HD11	2:D:1027:ILE:HG13	1.81	0.62
2:H:2176:ARG:H	2:H:2176:ARG:HD2	1.64	0.62
1:I:2380:PHE:CD1	1:I:2449:LEU:HA	2.34	0.62
1:I:2542:THR:HG22	1:I:2543:TYR:N	2.13	0.62
2:J:2662:LEU:HD13	2:J:2740:ILE:HG22	1.79	0.62
2:J:2704:PHE:HE2	2:J:2712:GLN:CB	2.12	0.62
2:B:444:ALA:HA	2:B:447:PHE:HD2	1.63	0.62
1:C:667:PHE:HB3	1:C:736:LEU:HA	1.79	0.62
1:E:1222:THR:HG22	1:E:1223:GLY:N	2.14	0.62
1:G:1793:THR:O	1:G:1801:VAL:HG22	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2578:ALA:O	2:J:2582:LEU:HD13	1.99	0.62
1:K:2954:VAL:CG2	1:K:2957:GLN:HB3	2.29	0.62
1:A:235:LEU:HD21	2:B:501:GLU:CA	2.13	0.62
1:G:1944:ALA:CB	1:G:1948:LEU:HB2	2.29	0.62
2:H:2150:ARG:CA	2:H:2167:VAL:HG21	2.26	0.62
2:H:2236:LEU:HB2	1:I:2505:ALA:CB	2.27	0.62
2:J:2793:MET:CE	1:K:3066:ILE:HD11	2.29	0.62
1:K:2982:LEU:O	1:K:2986:VAL:HG23	1.98	0.62
1:C:831:LEU:HD23	1:C:831:LEU:N	2.15	0.62
2:H:2173:SER:CB	2:H:2178:TYR:HB2	2.29	0.62
1:I:2515:ALA:CB	1:I:2519:LEU:HB2	2.28	0.62
1:A:11:LYS:HA	1:A:14:LEU:CD2	2.30	0.62
1:A:12:PHE:O	1:A:16:LEU:HD13	1.99	0.62
1:A:142:GLN:HA	1:A:142:GLN:NE2	2.15	0.62
1:E:1157:ALA:O	1:E:1160:VAL:HG12	1.99	0.62
1:E:1380:LEU:HB3	2:F:1645:GLU:O	2.00	0.62
1:G:1883:LEU:N	1:G:1883:LEU:HD12	2.14	0.62
1:K:2892:VAL:HB	1:K:2922:PHE:HZ	1.64	0.62
1:K:2922:PHE:CD2	1:K:2958:LEU:HG	2.35	0.62
1:A:99:VAL:O	1:A:103:LEU:HD22	1.98	0.62
2:B:471:ALA:O	2:B:474:VAL:HG12	1.99	0.62
1:C:585:LEU:HD23	1:C:585:LEU:O	1.99	0.62
1:E:1317:PHE:CB	1:E:1320:GLU:HB2	2.29	0.62
2:J:2807:LEU:CB	1:K:3073:SER:HA	2.29	0.62
2:B:376:ILE:HD13	2:B:376:ILE:H	1.65	0.62
2:D:933:ILE:CG2	2:D:980:VAL:HG11	2.27	0.62
2:D:969:LEU:HD12	2:D:969:LEU:N	2.13	0.62
2:D:1064:GLN:O	2:D:1068:ILE:HD13	2.00	0.62
1:E:1181:PHE:HE2	1:E:1249:PHE:HE2	1.48	0.62
1:G:1823:ILE:CD1	1:G:1831:VAL:HG23	2.29	0.62
2:H:2236:LEU:HD13	1:I:2505:ALA:HB1	1.81	0.62
2:J:2704:PHE:CD2	2:J:2708:GLN:HB3	2.35	0.62
1:K:2922:PHE:CE2	1:K:2958:LEU:HB3	2.34	0.62
1:K:2985:VAL:O	1:K:2988:ARG:HG2	1.98	0.62
1:A:92:LEU:HD13	1:A:170:LEU:HD23	1.81	0.62
2:D:1125:LEU:HD23	2:D:1126:GLN:N	2.15	0.62
2:F:1692:LEU:N	2:F:1692:LEU:HD12	2.13	0.62
1:G:1834:SER:O	1:G:1837:THR:HG22	1.98	0.62
2:H:2045:GLN:HA	2:H:2103:PRO:HB3	1.80	0.62
1:I:2402:VAL:HG23	1:I:2403:LEU:N	2.15	0.62
1:A:203:ALA:O	1:A:206:GLN:HG2	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:238:LEU:HD22	2:B:507:ALA:HA	1.82	0.62
2:B:335:ILE:H	2:B:335:ILE:CD1	2.11	0.62
2:B:497:ILE:HG13	2:B:498:VAL:N	2.14	0.62
2:B:529:ALA:O	2:B:532:ILE:HG22	2.00	0.62
2:D:947:ILE:CG1	2:D:1027:ILE:HG23	2.29	0.62
1:E:1221:ILE:N	1:E:1221:ILE:HD12	2.14	0.62
1:E:1221:ILE:HG13	1:E:1231:ASN:ND2	2.15	0.62
1:E:1380:LEU:HB3	2:F:1646:ALA:CA	2.30	0.62
2:F:1508:THR:HG22	2:F:1509:GLY:N	2.14	0.62
2:F:1665:LEU:HD13	1:G:1931:SER:N	2.15	0.62
2:H:2219:ALA:HA	1:I:2491:LYS:CD	2.30	0.62
1:I:2522:LEU:HD12	1:I:2522:LEU:O	1.99	0.62
2:J:2664:VAL:HG23	2:J:2738:VAL:HG22	1.80	0.62
1:A:266:VAL:HG22	1:A:267:LEU:N	2.13	0.62
1:C:745:THR:HB	1:C:746:PHE:CA	2.29	0.62
2:B:413:LEU:O	2:B:417:VAL:HG13	1.99	0.61
2:D:893:ILE:O	2:D:922:ILE:HG12	1.98	0.61
2:F:1528:ALA:C	2:F:1531:LEU:HD23	2.20	0.61
1:G:1843:VAL:HG11	1:G:1863:VAL:HG22	1.80	0.61
1:A:80:THR:HG21	1:A:127:LEU:CD1	2.29	0.61
2:B:477:GLN:O	2:B:480:GLN:HG2	1.99	0.61
2:D:1008:ARG:CA	2:D:1025:VAL:HG21	2.28	0.61
1:E:1381:ARG:HH11	1:E:1382:LYS:HA	1.65	0.61
2:J:2614:VAL:HG11	2:J:2677:TYR:CD1	2.35	0.61
1:C:799:LEU:HD23	1:C:806:LEU:HD22	1.83	0.61
2:F:1538:LEU:HG	2:F:1542:TYR:HB2	1.81	0.61
2:F:1586:ALA:HB1	2:F:1591:LEU:HG	1.81	0.61
2:H:2079:THR:HG22	2:H:2080:GLY:N	2.15	0.61
2:H:2227:LEU:HD13	2:H:2234:ILE:CG2	2.30	0.61
1:A:174:THR:HG22	1:A:179:PHE:CD1	2.35	0.61
2:D:1093:LYS:O	2:D:1096:LYS:HB3	1.99	0.61
1:E:1380:LEU:HB3	2:F:1646:ALA:N	2.14	0.61
2:F:1455:PHE:CZ	2:F:1457:VAL:HG23	2.34	0.61
1:G:1962:TYR:HE1	1:G:1966:ARG:CZ	2.13	0.61
2:H:2236:LEU:HB3	1:I:2501:ASP:O	1.99	0.61
2:J:2655:LEU:HG	2:J:2655:LEU:O	2.00	0.61
2:J:2665:LEU:N	2:J:2665:LEU:HD22	2.15	0.61
2:J:2806:LYS:O	2:J:2806:LYS:HD3	2.00	0.61
1:K:2860:VAL:O	1:K:2864:ILE:HG22	1.99	0.61
1:K:3071:GLY:HA2	1:K:3074:LYS:HE2	1.81	0.61
1:A:235:LEU:O	2:B:504:ALA:HB2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:665:ILE:HG22	1:C:667:PHE:CD1	2.36	0.61
1:C:728:ARG:HA	1:C:728:ARG:HH11	1.64	0.61
2:H:2032:HIS:C	2:H:2033:ARG:HD2	2.20	0.61
2:H:2033:ARG:HD3	2:H:2068:ILE:CG1	2.29	0.61
1:I:2376:LEU:CD2	1:I:2454:LEU:HG	2.28	0.61
1:K:2985:VAL:HG23	1:K:2986:VAL:N	2.15	0.61
1:K:3086:ALA:CB	1:K:3090:LEU:HB2	2.30	0.61
1:A:214:ALA:CB	1:K:3094:ARG:HB2	2.30	0.61
1:C:673:GLN:OE1	1:C:673:GLN:HA	2.00	0.61
1:E:1344:LYS:HG3	1:E:1345:ALA:N	2.15	0.61
2:F:1563:ASN:O	2:F:1567:LEU:HD23	1.99	0.61
1:G:1745:ALA:HA	1:G:1765:GLU:CG	2.30	0.61
2:J:2684:TYR:HH	2:J:2731:PHE:HB3	1.65	0.61
1:A:61:VAL:HG23	1:A:62:GLN:N	2.15	0.61
2:B:351:ILE:N	2:B:351:ILE:HD12	2.15	0.61
1:E:1380:LEU:HD12	2:F:1645:GLU:CB	2.30	0.61
1:G:1749:ALA:HB3	1:G:1763:VAL:HG11	1.79	0.61
1:G:1816:LEU:HD23	1:G:1817:PRO:CD	2.31	0.61
1:G:1941:LEU:HD21	1:G:1949:ILE:HG13	1.82	0.61
2:H:2233:TYR:CE2	1:I:2499:GLU:HG3	2.35	0.61
2:J:2672:GLU:CG	2:J:2732:SER:HB2	2.29	0.61
2:B:495:GLN:O	2:B:498:VAL:HG22	1.99	0.61
1:C:751:THR:HG23	1:C:752:GLU:N	2.16	0.61
1:C:827:ASN:ND2	2:D:1110:SER:HB2	2.16	0.61
2:D:947:ILE:HD11	2:D:1027:ILE:CG2	2.31	0.61
2:F:1499:ALA:CA	2:F:1525:ARG:HG2	2.31	0.61
2:F:1526:PRO:HB3	2:F:1542:TYR:OH	2.01	0.61
1:G:1941:LEU:HD21	1:G:1949:ILE:CD1	2.29	0.61
1:A:207:LYS:HE3	1:K:3075:ALA:N	2.15	0.61
1:A:228:LEU:CD2	1:A:236:ILE:HA	2.31	0.61
2:B:524:ARG:CB	1:C:785:ALA:HB1	2.31	0.61
1:C:765:GLU:O	1:C:768:ARG:HB3	2.00	0.61
1:C:806:LEU:HD23	1:C:806:LEU:C	2.22	0.61
1:E:1268:ILE:HD13	1:E:1296:LEU:HD13	1.83	0.61
1:E:1380:LEU:C	2:F:1645:GLU:HB2	2.20	0.61
2:F:1474:GLN:HA	2:F:1532:PRO:CB	2.31	0.61
2:F:1555:LEU:O	2:F:1555:LEU:HD23	2.00	0.61
1:G:1839:ILE:CG2	1:G:1867:LEU:HD21	2.25	0.61
2:J:2619:ILE:H	2:J:2619:ILE:CD1	2.10	0.61
2:J:2807:LEU:O	1:K:3072:ASP:HB3	2.00	0.61
1:K:2922:PHE:CZ	1:K:2958:LEU:HB3	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2958:LEU:HD13	1:K:2961:ILE:HD11	1.82	0.61
1:C:807:ILE:O	1:C:810:ARG:HG2	2.00	0.61
1:E:1225:LYS:HD3	1:E:1225:LYS:C	2.21	0.61
2:H:2102:LEU:HB2	2:H:2103:PRO:HD3	1.83	0.61
2:H:2219:ALA:HA	1:I:2491:LYS:CE	2.31	0.61
2:H:2230:ASN:OD1	2:H:2231:PRO:HD2	2.01	0.61
2:J:2793:MET:HE3	1:K:3066:ILE:HD11	1.82	0.61
1:K:3059:GLU:HA	1:K:3062:LYS:HE2	1.82	0.61
1:C:633:GLN:N	1:C:633:GLN:HE21	1.99	0.60
2:D:987:VAL:HG23	2:D:988:VAL:N	2.16	0.60
1:E:1373:ALA:CB	1:E:1377:LEU:HB2	2.30	0.60
2:F:1499:ALA:HA	2:F:1525:ARG:HG2	1.82	0.60
1:I:2364:THR:CG2	1:I:2415:VAL:HG11	2.30	0.60
1:I:2411:LEU:HD23	1:I:2411:LEU:O	2.00	0.60
1:K:2982:LEU:HD23	1:K:2986:VAL:HG23	1.83	0.60
1:A:231:ALA:HB3	1:A:235:LEU:CG	2.31	0.60
2:F:1417:GLN:HE21	2:F:1419:LEU:HD21	1.66	0.60
2:H:2219:ALA:HA	1:I:2491:LYS:HE2	1.83	0.60
1:I:2373:ASN:HB2	1:I:2459:PHE:HB3	1.83	0.60
1:I:2519:LEU:HD22	2:J:2788:ALA:HB2	1.78	0.60
1:C:628:LEU:CD2	1:C:635:PRO:HG2	2.31	0.60
2:D:848:LEU:HD13	2:D:849:LYS:N	2.17	0.60
1:E:1177:ARG:NE	1:E:1193:GLY:HA2	2.16	0.60
1:G:1818:ARG:O	1:G:1821:THR:HG22	2.01	0.60
1:G:1937:ILE:HD11	2:H:2209:LYS:CE	2.29	0.60
2:H:2098:ASN:HD22	2:H:2101:GLU:HG2	1.65	0.60
1:I:2378:ILE:HG23	1:I:2449:LEU:HD13	1.84	0.60
2:J:2743:LEU:HD12	2:J:2743:LEU:N	2.16	0.60
2:B:469:VAL:O	2:B:473:GLN:HG2	2.02	0.60
2:D:932:LYS:HE3	2:D:950:ARG:HB2	1.84	0.60
2:D:1098:ARG:HB2	1:E:1359:ASP:OD2	2.01	0.60
1:E:1176:HIS:HD2	1:E:1208:ILE:HD12	1.64	0.60
1:E:1381:ARG:HG3	2:F:1642:ALA:CB	2.32	0.60
2:F:1656:LEU:HD12	2:F:1656:LEU:O	2.01	0.60
1:G:1803:ILE:HD11	1:G:1883:LEU:CD2	2.31	0.60
1:G:1886:LEU:HD23	1:G:1886:LEU:N	2.10	0.60
2:H:2031:GLY:O	2:H:2068:ILE:HB	2.00	0.60
2:H:2094:LEU:HD22	2:H:2094:LEU:N	2.16	0.60
1:A:217:ASP:HB3	1:K:3093:LEU:O	2.00	0.60
2:D:937:THR:O	2:D:945:VAL:HG22	2.01	0.60
2:D:1091:TYR:C	1:E:1360:SER:HB2	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1381:ARG:CB	2:F:1642:ALA:HB1	2.31	0.60
1:G:1807:ILE:CG1	1:G:1878:LEU:HD11	2.31	0.60
1:I:2523:ARG:HB3	2:J:2784:ALA:HB1	1.82	0.60
1:K:2954:VAL:CG1	1:K:3019:ILE:HG12	2.31	0.60
1:C:756:ALA:O	1:C:759:VAL:HG12	2.02	0.60
1:E:1317:PHE:HB3	1:E:1320:GLU:CB	2.31	0.60
1:G:1805:LEU:HD11	1:G:1881:VAL:HG12	1.83	0.60
2:H:2013:GLY:O	2:H:2017:VAL:HG23	2.02	0.60
2:H:2184:ALA:O	2:H:2187:VAL:HG22	2.02	0.60
1:I:2350:ILE:N	1:I:2350:ILE:HD12	2.16	0.60
2:J:2807:LEU:HB2	1:K:3076:ALA:HB2	1.83	0.60
1:C:779:LYS:O	1:C:783:ILE:HD13	2.02	0.60
2:F:1477:ILE:HD11	2:F:1532:PRO:HG3	1.84	0.60
1:A:218:SER:HB2	1:K:3090:LEU:C	2.21	0.60
1:E:1188:GLN:OE1	1:E:1190:ILE:HD11	2.02	0.60
1:E:1233:THR:HG22	1:E:1314:HIS:HB2	1.84	0.60
2:H:2240:ARG:HB2	1:I:2501:ASP:HB2	1.83	0.60
1:I:2321:VAL:CG1	1:I:2349:ILE:HG12	2.31	0.60
1:I:2531:ILE:O	1:I:2534:GLN:HG2	2.02	0.60
2:J:2808:ARG:CD	1:K:3069:ALA:HB1	2.32	0.60
1:A:146:VAL:HG13	1:A:170:LEU:HD11	1.83	0.60
1:A:203:ALA:HA	1:A:206:GLN:HE21	1.66	0.60
1:A:238:LEU:HG	1:A:241:LEU:CB	2.30	0.60
1:E:1260:VAL:O	1:E:1264:ILE:HD13	2.02	0.60
1:E:1378:ILE:HD12	1:E:1381:ARG:HD2	1.83	0.60
2:J:2798:LEU:HD11	2:J:2805:ILE:HA	1.84	0.60
1:A:92:LEU:CD1	1:A:170:LEU:HD23	2.32	0.60
1:A:243:ALA:O	1:A:247:ILE:HG12	2.02	0.60
2:B:320:ARG:NE	2:B:386:ALA:HB1	2.16	0.60
1:C:607:ALA:O	1:C:621:VAL:HG12	2.02	0.60
2:D:983:VAL:HG23	2:D:984:LEU:N	2.17	0.60
1:E:1233:THR:O	1:E:1313:THR:HG22	2.02	0.60
1:E:1410:LEU:HD12	1:E:1410:LEU:N	2.17	0.60
2:F:1499:ALA:HA	2:F:1525:ARG:CG	2.32	0.60
1:G:1721:SER:HA	1:G:1724:LYS:NZ	2.17	0.60
1:I:2515:ALA:CB	1:I:2519:LEU:HG	2.31	0.60
2:J:2733:LEU:HD12	2:J:2735:LEU:HD23	1.84	0.60
1:K:2970:ASP:CA	1:K:2974:LEU:HD23	2.32	0.60
1:A:266:VAL:HG22	1:A:267:LEU:H	1.66	0.59
1:E:1341:VAL:O	1:E:1344:LYS:HG2	2.02	0.59
1:I:2359:ASN:OD1	1:I:2377:ARG:HD2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2841:GLU:HG2	2:J:2842:SER:O	2.02	0.59
2:B:389:LEU:HB2	2:B:390:PRO:HD3	1.84	0.59
1:C:826:ARG:HD3	2:D:1109:THR:HG21	1.84	0.59
2:D:952:LEU:HD22	2:D:952:LEU:N	2.17	0.59
2:D:996:LEU:HD23	2:D:1003:VAL:HG21	1.84	0.59
1:E:1245:LEU:C	1:E:1245:LEU:HD13	2.23	0.59
1:E:1291:GLN:HE21	1:E:1291:GLN:HA	1.66	0.59
2:J:2693:VAL:HG13	2:J:2694:ASN:N	2.17	0.59
1:K:2965:ILE:HG21	1:K:2969:TYR:HB2	1.83	0.59
1:K:3025:LEU:C	1:K:3025:LEU:HD12	2.23	0.59
1:K:3030:PHE:HB2	1:K:3033:GLU:CB	2.23	0.59
1:A:215:GLU:HA	1:K:3090:LEU:CD1	2.32	0.59
2:D:887:GLU:HG3	2:D:890:HIS:HD2	1.67	0.59
2:D:1065:ARG:O	2:D:1069:VAL:HG23	2.02	0.59
1:G:1770:LEU:O	1:G:1772:PRO:HD3	2.01	0.59
1:G:1819:ILE:HD12	1:G:1827:TYR:HE1	1.64	0.59
2:H:2075:ILE:HD13	2:H:2122:VAL:HG13	1.81	0.59
2:H:2152:GLU:HA	2:H:2155:GLU:OE2	2.02	0.59
2:J:2711:THR:HG23	2:J:2712:GLN:HG2	1.84	0.59
1:A:127:LEU:O	1:A:127:LEU:HD13	2.02	0.59
1:A:207:LYS:CE	1:K:3075:ALA:HA	2.32	0.59
2:D:1114:ILE:HB	2:F:1682:GLN:O	2.02	0.59
2:F:1520:LEU:CD2	2:F:1598:ILE:HG22	2.32	0.59
2:F:1538:LEU:HG	2:F:1542:TYR:CB	2.32	0.59
2:F:1563:ASN:ND2	2:F:1565:SER:HB2	2.18	0.59
2:F:1643:GLU:HG3	2:F:1644:GLY:N	2.15	0.59
1:G:1733:GLY:O	1:G:1736:VAL:HG22	2.01	0.59
1:G:1791:VAL:HG21	1:G:1840:LEU:HD12	1.85	0.59
1:G:1851:GLU:HG3	1:G:1855:GLN:HB2	1.84	0.59
1:A:142:GLN:HG3	1:A:142:GLN:O	2.03	0.59
1:C:689:VAL:HG13	1:C:690:LEU:N	2.18	0.59
1:C:757:LYS:O	1:C:761:GLN:HG3	2.01	0.59
1:E:1381:ARG:CG	2:F:1642:ALA:HB1	2.32	0.59
1:G:1887:THR:HG22	1:G:1892:PHE:HD1	1.65	0.59
2:H:2035:ILE:HG12	2:H:2103:PRO:HG3	1.84	0.59
2:H:2053:LEU:HD23	2:H:2053:LEU:O	2.02	0.59
2:H:2091:LEU:CD1	2:H:2093:VAL:HG23	2.28	0.59
1:K:3029:THR:HG22	1:K:3030:PHE:C	2.23	0.59
2:B:404:VAL:HG13	2:B:405:LEU:N	2.18	0.59
1:C:628:LEU:HD12	1:C:628:LEU:N	2.18	0.59
1:C:717:VAL:O	1:C:721:VAL:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:951:VAL:HG12	2:D:1025:VAL:HG12	1.84	0.59
2:F:1579:ARG:O	2:F:1582:LEU:HG	2.02	0.59
2:F:1685:ILE:H	2:F:1685:ILE:CD1	2.11	0.59
2:F:1690:ASP:OD2	2:F:1692:LEU:HD11	2.02	0.59
1:K:2894:PHE:HD1	1:K:2920:ILE:CD1	2.14	0.59
1:K:3025:LEU:HD12	1:K:3025:LEU:O	2.02	0.59
2:F:1696:LEU:HD12	2:F:1696:LEU:N	2.18	0.59
2:F:1699:GLU:OE1	2:F:1699:GLU:HA	2.02	0.59
1:G:1812:VAL:HG13	1:G:1815:GLN:CB	2.24	0.59
1:A:110:ILE:HG12	1:A:111:GLY:N	2.17	0.59
2:B:474:VAL:HG13	2:B:475:ALA:N	2.18	0.59
1:C:694:THR:HG23	1:C:695:THR:N	2.18	0.59
2:D:947:ILE:HD12	2:D:1030:LEU:HD21	1.85	0.59
1:E:1213:SER:HB3	1:E:1239:ARG:CD	2.32	0.59
1:E:1370:LEU:HD11	1:E:1378:ILE:CG1	2.32	0.59
1:G:1789:VAL:HG23	1:G:1789:VAL:O	2.03	0.59
1:G:1941:LEU:HD11	1:G:1949:ILE:N	2.18	0.59
1:G:1944:ALA:HB3	1:G:1948:LEU:CD2	2.31	0.59
1:I:2481:ARG:O	1:I:2484:VAL:HG22	2.01	0.59
1:E:1269:LEU:HD23	1:E:1292:VAL:CG2	2.33	0.59
2:F:1418:ASN:C	2:F:1419:LEU:HD22	2.23	0.59
2:F:1486:ILE:CD1	2:F:1490:GLN:HB2	2.32	0.59
1:G:1841:LYS:O	1:G:1844:VAL:HG12	2.01	0.59
2:H:2096:ARG:HG3	2:H:2163:ILE:CD1	2.30	0.59
2:H:2195:ALA:O	2:H:2199:VAL:HG23	2.03	0.59
1:I:2341:LEU:HD12	1:I:2341:LEU:N	2.18	0.59
1:I:2519:LEU:HD21	2:J:2785:GLU:CA	2.29	0.59
2:B:444:ALA:HA	2:B:447:PHE:CE2	2.38	0.59
2:D:893:ILE:HG23	2:D:922:ILE:CG1	2.32	0.59
1:E:1144:ALA:HB1	1:E:1148:PHE:CE2	2.34	0.59
1:G:1724:LYS:HG2	1:G:1725:PHE:N	2.16	0.59
1:G:1762:VAL:HG23	1:G:1816:LEU:HD11	1.84	0.59
2:H:2142:ARG:O	2:H:2145:VAL:HG22	2.02	0.59
2:J:2668:PRO:HB3	2:J:2676:MET:CE	2.33	0.59
1:A:188:VAL:HG13	1:A:189:ALA:N	2.18	0.58
1:A:213:SER:HB2	1:K:3097:GLU:OE2	2.02	0.58
2:B:367:GLY:H	2:B:414:LYS:HE3	1.68	0.58
1:C:667:PHE:HB2	1:C:735:ILE:O	2.03	0.58
2:D:1094:LEU:HD23	1:E:1363:ALA:CB	2.33	0.58
2:D:1116:LEU:N	2:D:1116:LEU:HD12	2.18	0.58
1:E:1366:ILE:HG12	2:F:1639:ILE:HG13	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1745:ALA:HA	1:G:1765:GLU:CD	2.23	0.58
1:G:1750:VAL:HG23	1:G:1816:LEU:HD12	1.85	0.58
2:H:2109:LEU:HD22	2:H:2113:TYR:CE1	2.38	0.58
2:H:2178:TYR:O	2:H:2182:VAL:HG23	2.02	0.58
1:I:2423:LEU:CD2	1:I:2457:LEU:HD21	2.33	0.58
1:I:2447:LEU:HD22	1:I:2447:LEU:C	2.23	0.58
2:J:2666:SER:HB2	2:J:2733:LEU:CD1	2.08	0.58
2:J:2709:LEU:CG	2:J:2743:LEU:HD23	2.33	0.58
1:C:748:LYS:O	1:C:751:THR:HG22	2.03	0.58
1:G:1941:LEU:HD21	1:G:1949:ILE:HD12	1.84	0.58
1:G:1951:LEU:O	2:H:2216:GLU:HG2	2.02	0.58
2:H:2044:GLN:HG2	2:H:2047:THR:H	1.69	0.58
2:J:2697:LEU:O	2:J:2701:VAL:HG13	2.03	0.58
2:J:2704:PHE:CE2	2:J:2712:GLN:HB2	2.34	0.58
2:J:2741:THR:HG22	2:J:2742:GLU:N	2.17	0.58
1:K:3099:ALA:O	1:K:3102:ILE:HG22	2.02	0.58
1:A:110:ILE:CD1	1:A:114:TYR:HB3	2.33	0.58
1:A:235:LEU:HD23	2:B:504:ALA:HB3	1.84	0.58
2:B:523:LEU:O	1:C:788:ASP:HB3	2.03	0.58
1:C:802:ALA:HB2	1:C:806:LEU:HD13	1.84	0.58
1:G:1751:ILE:HG23	1:G:1775:GLN:HG3	1.84	0.58
2:H:2028:VAL:HG23	2:H:2051:GLU:CA	2.32	0.58
2:H:2048:ILE:HG13	2:H:2048:ILE:O	2.02	0.58
2:J:2820:ILE:HG23	2:J:2821:ALA:N	2.18	0.58
1:A:97:ARG:HG3	1:A:98:PRO:O	2.03	0.58
1:C:579:SER:O	1:C:582:LYS:HG2	2.04	0.58
1:E:1199:LEU:HD22	1:E:1199:LEU:N	2.18	0.58
1:E:1236:ILE:HD13	1:E:1310:VAL:HG13	1.85	0.58
2:F:1504:ILE:CG2	2:F:1551:VAL:HG11	2.29	0.58
2:F:1520:LEU:CD1	2:F:1555:LEU:HD12	2.32	0.58
2:F:1663:ILE:HG23	2:F:1664:LYS:N	2.17	0.58
2:H:2037:PHE:HD2	2:H:2043:VAL:CG2	2.16	0.58
2:H:2242:ALA:HA	2:H:2245:ILE:HG12	1.85	0.58
1:I:2457:LEU:O	1:I:2457:LEU:HD13	2.03	0.58
1:I:2472:VAL:HG23	1:I:2473:ALA:N	2.18	0.58
1:I:2522:LEU:HD23	2:J:2791:ALA:N	2.17	0.58
1:K:3032:LYS:HB2	1:K:3032:LYS:NZ	2.16	0.58
1:A:215:GLU:CA	1:K:3090:LEU:HD11	2.34	0.58
2:B:344:ILE:HD12	2:B:344:ILE:N	2.18	0.58
1:E:1232:ILE:HG13	1:E:1315:LEU:CD1	2.33	0.58
2:F:1468:ARG:HB3	2:F:1489:PHE:CE1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1665:LEU:HD12	2:F:1665:LEU:C	2.24	0.58
1:I:2321:VAL:HG12	1:I:2349:ILE:CG1	2.33	0.58
1:I:2515:ALA:HB3	1:I:2519:LEU:CG	2.31	0.58
2:B:449:LEU:HD13	2:B:450:ILE:C	2.24	0.58
2:B:532:ILE:CD1	2:B:536:ILE:HG12	2.32	0.58
2:F:1558:VAL:HG23	2:F:1559:VAL:N	2.18	0.58
1:I:2380:PHE:HZ	1:I:2438:LEU:HD21	1.68	0.58
2:B:514:LEU:HB2	2:B:521:ILE:HG12	1.86	0.58
1:C:841:LEU:N	1:C:841:LEU:HD12	2.19	0.58
2:D:1008:ARG:CD	2:D:1025:VAL:HG22	2.31	0.58
2:F:1540:LEU:HD22	2:F:1540:LEU:N	2.18	0.58
2:F:1598:ILE:HG13	2:F:1598:ILE:O	2.01	0.58
1:G:1831:VAL:HG21	1:G:1874:PHE:CD2	2.38	0.58
1:A:94:ILE:CG2	1:A:165:LEU:HD13	2.30	0.58
1:A:228:LEU:HD23	1:A:236:ILE:HG12	1.85	0.58
2:B:277:LEU:HD12	2:B:277:LEU:N	2.18	0.58
1:C:827:ASN:HD21	2:D:1110:SER:CB	2.16	0.58
1:E:1234:LEU:HD11	1:E:1310:VAL:CG1	2.34	0.58
1:E:1380:LEU:HD22	1:E:1383:LEU:HB2	1.86	0.58
2:F:1504:ILE:O	2:F:1504:ILE:HG23	2.04	0.58
1:G:1970:ILE:HD12	1:G:1970:ILE:O	2.03	0.58
1:I:2358:ARG:HE	1:I:2358:ARG:CA	2.16	0.58
2:B:449:LEU:HD13	2:B:449:LEU:C	2.24	0.58
1:C:826:ARG:HG3	1:C:827:ASN:N	2.18	0.58
1:E:1143:MET:O	1:E:1146:LYS:HD2	2.04	0.58
2:F:1456:THR:HG22	2:F:1482:LEU:CD2	2.17	0.58
2:F:1512:ASP:O	2:F:1513:LEU:HB2	2.03	0.58
2:F:1543:GLU:HG3	2:F:1544:GLU:H	1.67	0.58
1:G:1951:LEU:HB3	2:H:2216:GLU:C	2.23	0.58
2:H:2089:ILE:HD13	2:H:2172:LEU:HA	1.86	0.58
1:I:2341:LEU:HD21	1:I:2348:PRO:HG2	1.86	0.58
1:I:2475:GLN:O	1:I:2478:GLU:HG3	2.03	0.58
2:J:2807:LEU:HB2	1:K:3073:SER:HA	1.85	0.58
1:A:126:ILE:HD11	1:A:157:ARG:CD	2.33	0.58
2:B:376:ILE:HD13	2:B:376:ILE:N	2.19	0.58
2:B:494:ARG:O	2:B:497:ILE:HG12	2.03	0.58
2:B:522:LYS:O	2:B:526:ILE:HD13	2.03	0.58
1:C:816:GLU:CG	1:C:820:TYR:HE1	2.17	0.58
1:E:1360:SER:O	1:E:1363:ALA:HB3	2.04	0.58
1:E:1384:GLU:HG3	2:F:1645:GLU:OE1	2.04	0.58
1:G:1836:THR:HG23	1:G:1837:THR:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2864:ILE:HG23	1:K:2865:GLY:N	2.18	0.58
2:B:276:ASN:C	2:B:277:LEU:HD12	2.24	0.57
1:C:607:ALA:HB3	1:C:621:VAL:HG12	1.85	0.57
2:F:1642:ALA:C	2:F:1645:GLU:HG2	2.23	0.57
1:G:1827:TYR:OH	1:G:1876:LEU:HG	2.03	0.57
1:G:1951:LEU:HD12	2:H:2220:ALA:N	2.19	0.57
2:H:2096:ARG:NE	2:H:2163:ILE:HD11	2.18	0.57
2:H:2113:TYR:O	2:H:2117:VAL:HG22	2.04	0.57
1:I:2302:VAL:HG23	1:I:2303:ALA:N	2.18	0.57
2:J:2728:ALA:O	2:J:2731:PHE:HB2	2.03	0.57
2:J:2827:ILE:HD13	2:J:2827:ILE:N	2.18	0.57
2:B:409:VAL:HG13	2:B:410:ASN:N	2.18	0.57
1:C:697:ILE:HD13	1:C:725:LEU:HA	1.86	0.57
1:C:713:GLN:HG3	1:C:713:GLN:O	2.04	0.57
1:E:1206:PRO:C	1:E:1207:ILE:HD12	2.24	0.57
1:A:127:LEU:HD13	1:A:127:LEU:C	2.25	0.57
1:A:221:ALA:HA	1:K:3093:LEU:HD12	1.84	0.57
1:C:710:LEU:CG	1:C:744:LEU:HD13	2.33	0.57
1:C:746:PHE:HB2	1:C:749:GLU:OE1	2.03	0.57
2:D:911:LEU:HD12	2:D:911:LEU:N	2.19	0.57
1:E:1232:ILE:HD12	1:E:1232:ILE:N	2.19	0.57
1:G:1785:ARG:C	1:G:1808:LEU:HD12	2.24	0.57
1:G:1941:LEU:CD2	1:G:1949:ILE:HD12	2.34	0.57
2:J:2597:PHE:CD2	2:J:2627:ARG:HB2	2.39	0.57
1:E:1218:VAL:O	1:E:1218:VAL:HG13	2.04	0.57
2:F:1546:VAL:HG13	2:F:1547:LEU:N	2.18	0.57
2:F:1547:LEU:CB	2:F:1548:PRO:HD3	2.31	0.57
2:F:1642:ALA:HA	2:F:1645:GLU:HG3	1.86	0.57
2:H:2223:LEU:HD23	2:H:2237:ARG:CZ	2.34	0.57
1:I:2464:THR:HG23	1:I:2465:GLU:N	2.18	0.57
1:I:2484:VAL:HG23	1:I:2485:GLU:N	2.19	0.57
1:I:2492:LYS:O	1:I:2496:ILE:HG13	2.04	0.57
1:K:2874:ALA:O	1:K:2877:VAL:HG12	2.04	0.57
1:C:606:ARG:NH1	1:C:671:ALA:HB1	2.19	0.57
2:D:1008:ARG:HB2	2:D:1025:VAL:CG2	2.34	0.57
1:E:1171:ASN:ND2	1:E:1196:THR:HG22	2.20	0.57
2:F:1555:LEU:HD23	2:F:1555:LEU:C	2.25	0.57
2:F:1576:LEU:HD13	2:F:1576:LEU:C	2.25	0.57
2:F:1616:VAL:HG13	2:F:1617:ALA:N	2.18	0.57
1:K:2889:HIS:CD2	1:K:2923:ASP:HA	2.28	0.57
2:B:426:ILE:HG23	2:B:427:THR:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:791:ALA:HB2	2:D:1064:GLN:CG	2.32	0.57
1:C:809:LEU:HD22	1:C:812:LEU:HB3	1.84	0.57
1:E:1279:GLY:O	1:E:1282:ILE:HG12	2.04	0.57
1:I:2407:THR:HG23	1:I:2408:THR:N	2.19	0.57
1:I:2522:LEU:HB3	2:J:2788:ALA:CA	2.35	0.57
2:J:2593:ARG:O	2:J:2593:ARG:HD3	2.04	0.57
2:J:2646:ILE:HD13	2:J:2647:SER:O	2.04	0.57
2:J:2650:THR:O	2:J:2658:VAL:HG12	2.05	0.57
2:J:2710:ILE:N	2:J:2710:ILE:HD12	2.20	0.57
2:J:2740:ILE:CD1	2:J:2743:LEU:HD21	2.34	0.57
1:K:3083:LEU:HA	1:K:3090:LEU:HD22	1.87	0.57
2:B:554:LEU:HD22	2:B:554:LEU:N	2.20	0.57
2:F:1652:LEU:HA	1:G:1924:ILE:HD12	1.85	0.57
1:G:1951:LEU:HB3	2:H:2216:GLU:CB	2.34	0.57
1:I:2378:ILE:HG21	1:I:2380:PHE:CZ	2.39	0.57
2:J:2813:ALA:O	2:J:2816:ILE:HG22	2.04	0.57
1:A:255:ARG:O	2:J:2827:ILE:HD11	2.04	0.57
2:B:360:ARG:HD3	2:B:361:LYS:H	1.70	0.57
2:B:408:ILE:HG13	2:B:447:PHE:CZ	2.40	0.57
1:C:573:ALA:O	1:C:577:PHE:HD1	1.87	0.57
1:C:663:LEU:HG	1:C:698:LEU:HD22	1.87	0.57
2:D:1094:LEU:CD2	1:E:1363:ALA:HB2	2.34	0.57
1:G:1728:ALA:O	1:G:1731:VAL:HG22	2.04	0.57
1:G:1948:LEU:HD11	2:H:2214:GLU:CB	2.35	0.57
2:H:2122:VAL:HG13	2:H:2123:ASN:N	2.20	0.57
1:I:2522:LEU:HB3	2:J:2788:ALA:HA	1.87	0.57
1:K:2950:LEU:O	1:K:3020:LEU:HD12	2.05	0.57
2:B:413:LEU:O	2:B:413:LEU:HD13	2.05	0.57
2:D:907:LEU:HD13	2:D:908:ALA:H	1.66	0.57
2:F:1656:LEU:HD12	2:F:1656:LEU:C	2.24	0.57
2:H:2267:LEU:HD12	2:H:2267:LEU:N	2.20	0.57
2:J:2689:LEU:O	2:J:2693:VAL:HG12	2.05	0.57
2:J:2783:GLN:O	2:J:2787:GLU:HG2	2.05	0.57
1:K:2920:ILE:HD12	1:K:2920:ILE:N	2.20	0.57
1:K:3047:GLU:HA	1:K:3050:ARG:HD3	1.86	0.57
2:B:357:ALA:HB2	2:B:383:ARG:CD	2.34	0.57
2:D:933:ILE:HD12	2:D:977:PRO:HA	1.87	0.57
1:E:1188:GLN:HB3	1:E:1190:ILE:HD11	1.86	0.57
1:E:1203:VAL:HG23	1:E:1204:GLN:OE1	2.05	0.57
1:G:1718:VAL:HG13	1:G:1719:PHE:N	2.20	0.57
1:G:1778:ILE:N	1:G:1778:ILE:HD12	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2627:ARG:HG2	2:J:2628:ILE:N	2.20	0.57
1:K:2970:ASP:HA	1:K:2974:LEU:CD2	2.33	0.57
2:B:527:ARG:HB2	1:C:788:ASP:HB2	1.87	0.56
2:D:947:ILE:HD11	2:D:1027:ILE:HG23	1.87	0.56
2:F:1613:ALA:O	2:F:1616:VAL:HG12	2.05	0.56
2:H:2057:ILE:N	2:H:2057:ILE:HD12	2.19	0.56
2:H:2096:ARG:HG3	2:H:2163:ILE:CG1	2.35	0.56
2:H:2271:SER:O	2:H:2272:PHE:HB2	2.04	0.56
1:A:144:GLU:HG3	1:A:145:LEU:N	2.20	0.56
1:E:1401:TYR:O	1:E:1402:LEU:HD23	2.05	0.56
2:F:1674:ILE:O	2:F:1677:THR:HG22	2.05	0.56
1:I:2299:ALA:O	1:I:2302:VAL:HG22	2.05	0.56
1:I:2402:VAL:O	1:I:2406:ILE:HD13	2.05	0.56
2:J:2798:LEU:CD1	2:J:2805:ILE:HG12	2.34	0.56
1:K:2883:TYR:HD1	1:K:2884:ASN:N	2.03	0.56
1:K:3083:LEU:HD13	1:K:3091:ILE:HG13	1.88	0.56
1:A:60:TRP:HD1	1:A:61:VAL:CG1	2.18	0.56
2:B:380:VAL:HG21	2:B:405:LEU:HD11	1.87	0.56
2:B:545:LEU:HD13	2:B:545:LEU:C	2.26	0.56
2:D:1061:LYS:HA	2:D:1064:GLN:HE22	1.66	0.56
2:D:1091:TYR:O	1:E:1360:SER:HB2	2.05	0.56
2:D:1094:LEU:O	2:D:1097:ILE:HG22	2.05	0.56
1:E:1216:ARG:HD3	1:E:1261:LEU:HD12	1.88	0.56
1:E:1236:ILE:HD11	1:E:1310:VAL:HG13	1.84	0.56
1:I:2304:GLY:O	1:I:2307:VAL:HG12	2.05	0.56
1:I:2316:ALA:HA	1:I:2336:GLU:CG	2.35	0.56
1:I:2457:LEU:HD13	1:I:2457:LEU:C	2.26	0.56
2:J:2646:ILE:HG23	2:J:2646:ILE:O	2.04	0.56
1:K:2982:LEU:CD2	1:K:2986:VAL:HG21	2.36	0.56
1:A:174:THR:HB	1:A:175:PHE:CA	2.36	0.56
2:B:461:PHE:CG	2:B:464:GLU:HB3	2.40	0.56
1:C:711:ILE:HG23	1:C:712:THR:N	2.19	0.56
2:F:1477:ILE:HD11	2:F:1532:PRO:CG	2.36	0.56
1:G:1750:VAL:CG2	1:G:1820:PHE:HZ	2.18	0.56
1:G:1955:GLU:HG3	2:H:2216:GLU:HB2	1.80	0.56
1:K:2998:ARG:HG3	1:K:2999:GLU:OE2	2.06	0.56
2:B:412:VAL:HG13	2:B:413:LEU:N	2.20	0.56
1:C:710:LEU:HD21	1:C:744:LEU:HD13	1.87	0.56
2:D:1027:ILE:N	2:D:1027:ILE:HD12	2.21	0.56
2:F:1677:THR:HG23	2:F:1678:ILE:N	2.21	0.56
1:G:1869:GLU:OE1	1:G:1869:GLU:HA	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2153:LEU:HD23	2:H:2164:LEU:CD1	2.35	0.56
1:I:2517:ASP:HA	1:I:2520:ILE:HD12	1.86	0.56
1:I:2519:LEU:HD21	2:J:2785:GLU:CB	2.36	0.56
2:J:2711:THR:HG23	2:J:2712:GLN:N	2.20	0.56
2:J:2800:LYS:O	2:J:2801:ASN:HB2	2.04	0.56
1:A:160:THR:HG23	1:A:161:PHE:CD1	2.41	0.56
2:F:1584:GLU:HA	2:F:1584:GLU:OE1	2.06	0.56
1:G:1871:ALA:HB1	1:G:1876:LEU:HB2	1.88	0.56
2:H:2129:VAL:HG12	2:H:2133:PHE:HE2	1.71	0.56
1:I:2307:VAL:HG13	1:I:2308:ASN:N	2.21	0.56
1:I:2341:LEU:HD23	1:I:2348:PRO:CD	2.35	0.56
1:I:2414:VAL:HG13	1:I:2415:VAL:N	2.19	0.56
2:J:2577:THR:HG23	2:J:2578:ALA:N	2.20	0.56
2:J:2724:LEU:HD23	2:J:2735:LEU:HD13	1.88	0.56
2:J:2793:MET:HE2	1:K:3062:LYS:HB2	1.88	0.56
1:A:80:THR:O	1:A:88:VAL:HG12	2.06	0.56
1:A:199:VAL:HA	1:A:202:LYS:HG2	1.88	0.56
2:B:374:VAL:HG12	2:B:376:ILE:HG23	1.88	0.56
2:B:540:GLN:HA	2:B:540:GLN:NE2	2.17	0.56
2:F:1582:LEU:HD21	2:F:1596:VAL:CG2	2.34	0.56
2:F:1599:THR:HG22	2:F:1600:GLU:N	2.20	0.56
2:F:1642:ALA:CA	2:F:1645:GLU:HG2	2.36	0.56
2:F:1685:ILE:O	2:F:1685:ILE:HG12	2.05	0.56
2:H:1991:LYS:HG3	2:H:1991:LYS:O	2.06	0.56
1:I:2360:VAL:HG13	1:I:2360:VAL:O	2.04	0.56
1:A:7:GLU:O	1:A:11:LYS:HD3	2.05	0.56
1:A:118:VAL:HG23	1:A:119:LEU:N	2.21	0.56
1:A:186:LYS:HA	1:A:186:LYS:HE3	1.88	0.56
1:C:734:LEU:N	1:C:734:LEU:HD22	2.20	0.56
2:D:1125:LEU:HD23	2:D:1125:LEU:C	2.26	0.56
2:F:1465:PHE:CD2	2:F:1478:LEU:HD11	2.41	0.56
2:F:1523:LEU:HD22	2:F:1523:LEU:N	2.20	0.56
1:G:1847:PHE:CE2	1:G:1855:GLN:HB3	2.34	0.56
2:H:2091:LEU:HD12	2:H:2093:VAL:CG2	2.31	0.56
2:H:2187:VAL:HG23	2:H:2188:ALA:N	2.21	0.56
1:I:2368:ASP:OD2	1:I:2370:GLN:HG3	2.05	0.56
2:J:2628:ILE:O	2:J:2628:ILE:HG13	2.05	0.56
2:J:2637:TYR:CD1	2:J:2673:LEU:HD12	2.40	0.56
2:J:2816:ILE:HG23	2:J:2817:SER:N	2.21	0.56
1:C:647:VAL:HG13	1:C:647:VAL:O	2.05	0.56
1:C:827:ASN:HD21	2:D:1111:GLN:H	1.54	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:827:ASN:ND2	2:D:1111:GLN:H	2.03	0.56
2:D:969:LEU:H	2:D:969:LEU:CD1	2.16	0.56
1:E:1285:ARG:O	1:E:1288:VAL:HG12	2.06	0.56
1:G:1769:PHE:C	1:G:1770:LEU:HD22	2.26	0.56
2:H:2176:ARG:H	2:H:2176:ARG:CD	2.19	0.56
1:I:2379:LEU:HD22	1:I:2379:LEU:N	2.21	0.56
1:I:2512:LEU:CD1	1:I:2520:ILE:HG12	2.35	0.56
2:J:2851:ILE:HG23	2:J:2851:ILE:O	2.06	0.56
1:A:39:PHE:HE1	1:A:65:ILE:CG1	2.19	0.56
1:A:154:LEU:HD23	1:A:165:LEU:HD22	1.87	0.56
1:A:174:THR:CB	1:A:175:PHE:HA	2.35	0.56
1:C:681:ILE:CD1	1:C:685:TYR:HB2	2.31	0.56
1:C:710:LEU:O	1:C:714:ARG:HG2	2.05	0.56
1:C:753:ALA:HB1	1:C:757:LYS:NZ	2.21	0.56
1:E:1230:VAL:HB	1:E:1232:ILE:HD11	1.87	0.56
2:H:2268:GLN:OE1	2:H:2271:SER:HB3	2.06	0.56
2:J:2798:LEU:HD13	2:J:2808:ARG:NH1	2.17	0.56
1:K:2978:THR:HG23	1:K:2979:THR:N	2.21	0.56
1:K:2997:GLN:HA	1:K:2997:GLN:OE1	2.06	0.56
1:A:146:VAL:CG1	1:A:170:LEU:HD11	2.36	0.55
2:B:524:ARG:HD2	1:C:785:ALA:CB	2.35	0.55
1:C:655:ASP:O	1:C:656:LEU:HB2	2.06	0.55
2:D:1081:LEU:HD23	2:D:1081:LEU:O	2.06	0.55
1:E:1165:VAL:HG23	1:E:1166:ASN:N	2.20	0.55
1:E:1199:LEU:O	1:E:1201:PRO:HD3	2.06	0.55
1:E:1380:LEU:HB2	2:F:1649:ALA:HB3	1.88	0.55
1:I:2322:ILE:HD11	1:I:2346:GLN:NE2	2.20	0.55
2:J:2845:ARG:O	2:J:2845:ARG:HD3	2.06	0.55
1:A:204:GLU:O	1:A:207:LYS:HB2	2.05	0.55
1:A:224:ILE:CG1	2:B:497:ILE:HG22	2.36	0.55
2:D:923:ILE:HD13	2:D:923:ILE:C	2.26	0.55
2:D:960:LEU:HD23	2:D:960:LEU:O	2.05	0.55
2:D:1094:LEU:CD1	2:D:1097:ILE:HB	2.27	0.55
2:F:1665:LEU:CB	1:G:1931:SER:N	2.67	0.55
2:F:1665:LEU:HB2	1:G:1930:ASP:O	2.06	0.55
1:G:1932:LYS:O	1:G:1936:LEU:HG	2.06	0.55
2:H:2139:ILE:HG12	2:H:2185:LYS:NZ	2.21	0.55
1:I:2519:LEU:O	2:J:2788:ALA:HB2	2.06	0.55
1:I:2526:GLU:HG3	2:J:2787:GLU:CG	2.37	0.55
2:J:2597:PHE:HE1	2:J:2625:HIS:HB2	1.64	0.55
1:A:84:ASP:O	1:A:85:LEU:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:952:LEU:O	2:D:1022:LEU:HD12	2.06	0.55
1:E:1328:LYS:HG3	1:E:1329:GLN:N	2.19	0.55
1:G:1823:ILE:CG2	1:G:1874:PHE:HE1	2.20	0.55
1:I:2314:VAL:HG13	1:I:2314:VAL:O	2.07	0.55
1:K:2924:CYS:O	1:K:2952:ARG:HD2	2.05	0.55
1:K:3038:VAL:HG23	1:K:3039:GLU:N	2.22	0.55
1:A:8:SER:HA	1:A:11:LYS:HZ1	1.71	0.55
1:C:806:LEU:CD1	2:D:1072:GLU:HA	2.35	0.55
1:E:1370:LEU:CD2	1:E:1378:ILE:HB	2.36	0.55
1:E:1380:LEU:CD1	2:F:1645:GLU:HB3	2.36	0.55
2:F:1653:GLY:HA2	2:F:1656:LEU:HD23	1.88	0.55
1:I:2316:ALA:HA	1:I:2336:GLU:OE1	2.06	0.55
2:J:2688:VAL:HG13	2:J:2689:LEU:N	2.20	0.55
2:J:2798:LEU:HD12	2:J:2804:TYR:HD2	1.72	0.55
2:J:2827:ILE:HD13	2:J:2827:ILE:H	1.72	0.55
1:K:2954:VAL:HG23	1:K:2957:GLN:CB	2.37	0.55
1:A:84:ASP:OD2	1:A:135:ASP:HB2	2.06	0.55
1:A:200:VAL:HG23	1:A:201:GLU:N	2.21	0.55
2:B:514:LEU:HD13	2:B:514:LEU:C	2.27	0.55
1:C:759:VAL:HG13	1:C:760:ALA:N	2.20	0.55
1:E:1289:SER:HB2	1:E:1312:LEU:HD13	1.88	0.55
2:F:1469:ILE:HG23	2:F:1470:GLY:N	2.21	0.55
2:F:1566:GLN:HE21	2:F:1566:GLN:CA	2.19	0.55
2:F:1641:GLN:O	2:F:1645:GLU:HG2	2.07	0.55
1:G:1752:PHE:HB2	1:G:1776:LYS:O	2.06	0.55
2:H:2072:PRO:HG3	2:H:2094:LEU:CD1	2.36	0.55
2:H:2083:ASP:O	2:H:2084:LEU:HB2	2.06	0.55
2:H:2227:LEU:CD1	2:H:2234:ILE:HG22	2.35	0.55
2:J:2564:LEU:N	2:J:2564:LEU:HD12	2.22	0.55
2:J:2668:PRO:HB3	2:J:2676:MET:HE2	1.87	0.55
1:K:2931:VAL:HG23	1:K:2931:VAL:O	2.06	0.55
1:K:3075:ALA:O	1:K:3079:ILE:HG13	2.06	0.55
1:C:670:VAL:O	1:C:674:LEU:HD12	2.06	0.55
1:C:806:LEU:HD11	2:D:1072:GLU:HA	1.88	0.55
2:D:1120:ASN:O	2:D:1121:LEU:HB3	2.07	0.55
1:E:1170:TYR:HB2	1:E:1199:LEU:HD23	1.89	0.55
1:E:1380:LEU:HB3	2:F:1646:ALA:HA	1.87	0.55
2:F:1486:ILE:HD13	2:F:1486:ILE:N	2.11	0.55
2:F:1591:LEU:HD23	2:F:1591:LEU:H	1.70	0.55
1:G:1843:VAL:HG13	1:G:1844:VAL:N	2.20	0.55
1:K:2880:SER:OG	1:K:2914:PRO:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:336:LEU:HD23	2:B:341:HIS:ND1	2.21	0.55
2:B:370:ASP:OD2	2:B:372:GLN:HG2	2.07	0.55
2:B:400:TYR:OH	2:B:449:LEU:HB2	2.07	0.55
2:B:413:LEU:HD13	2:B:413:LEU:C	2.27	0.55
2:D:914:ARG:HD2	2:D:915:ILE:N	2.22	0.55
2:D:933:ILE:HG23	2:D:933:ILE:O	2.06	0.55
1:E:1346:GLU:HA	1:E:1349:LYS:HD3	1.89	0.55
2:F:1642:ALA:O	2:F:1645:GLU:HG2	2.06	0.55
2:H:2035:ILE:O	2:H:2064:ILE:HD13	2.07	0.55
2:H:2048:ILE:HD13	2:H:2099:ALA:O	2.07	0.55
2:H:2179:THR:HG23	2:H:2180:ALA:N	2.22	0.55
2:J:2604:ARG:HB2	2:J:2620:LEU:O	2.07	0.55
2:J:2690:PRO:HA	2:J:2693:VAL:HG12	1.87	0.55
1:K:3029:THR:HG22	1:K:3030:PHE:N	2.21	0.55
1:E:1226:ASP:O	1:E:1227:LEU:HB2	2.07	0.55
2:F:1498:ARG:HG2	2:F:1499:ALA:H	1.72	0.55
1:G:1805:LEU:HD12	1:G:1882:SER:O	2.06	0.55
2:H:2075:ILE:O	2:H:2075:ILE:HG23	2.07	0.55
1:I:2387:LEU:HD23	1:I:2390:ILE:HD12	1.88	0.55
1:I:2539:ARG:CB	2:J:2822:THR:HG21	2.37	0.55
1:I:2539:ARG:HA	2:J:2822:THR:HG22	1.87	0.55
1:A:218:SER:HB2	1:K:3090:LEU:O	2.07	0.55
2:D:1122:VAL:O	2:D:1123:LEU:HD22	2.06	0.55
2:F:1495:TYR:OH	2:F:1535:TYR:HD1	1.89	0.55
1:I:2556:GLN:OE1	1:I:2556:GLN:HA	2.06	0.55
2:J:2690:PRO:HA	2:J:2693:VAL:CG1	2.37	0.55
2:J:2727:ARG:O	2:J:2731:PHE:HD2	1.89	0.55
1:A:228:LEU:HA	1:A:235:LEU:HD12	1.87	0.55
2:B:324:PHE:HB2	2:B:351:ILE:CD1	2.37	0.55
2:D:914:ARG:HD2	2:D:915:ILE:O	2.07	0.55
2:D:941:ASP:O	2:D:942:LEU:HB2	2.06	0.55
2:D:1094:LEU:O	1:E:1359:ASP:HB3	2.07	0.55
1:E:1278:ALA:HA	1:E:1281:LEU:CD1	2.37	0.55
1:E:1380:LEU:HD22	1:E:1383:LEU:CD1	2.34	0.55
2:F:1678:ILE:HG23	2:F:1679:ALA:N	2.22	0.55
1:G:1821:THR:HG23	1:G:1822:SER:N	2.22	0.55
1:G:1937:ILE:HD13	2:H:2209:LYS:HE3	1.87	0.55
2:H:2227:LEU:HD22	2:H:2234:ILE:HG22	1.88	0.55
1:K:2950:LEU:HD22	1:K:2950:LEU:N	2.22	0.55
1:A:174:THR:CB	1:A:175:PHE:CA	2.85	0.54
2:D:855:LEU:HD12	2:D:855:LEU:N	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:922:ILE:HD12	2:D:964:TYR:CD2	2.42	0.54
2:D:947:ILE:CG1	2:D:1030:LEU:HD21	2.37	0.54
1:K:3020:LEU:HD11	1:K:3023:VAL:CG2	2.35	0.54
1:K:3097:GLU:O	1:K:3100:GLU:HG2	2.07	0.54
1:A:183:VAL:HG13	1:A:184:GLU:N	2.22	0.54
2:D:1121:LEU:HD11	2:D:1123:LEU:HD21	1.88	0.54
1:E:1261:LEU:HD13	1:E:1261:LEU:C	2.28	0.54
1:E:1370:LEU:O	1:E:1370:LEU:HD23	2.06	0.54
2:J:2709:LEU:HG	2:J:2743:LEU:HD23	1.90	0.54
1:K:3102:ILE:HG23	1:K:3103:ALA:N	2.22	0.54
1:A:180:THR:O	1:A:183:VAL:HG12	2.08	0.54
1:C:713:GLN:OE1	1:C:716:LEU:HD12	2.06	0.54
1:E:1160:VAL:HG13	1:E:1161:ALA:N	2.22	0.54
2:H:2266:ASN:C	2:H:2267:LEU:HD12	2.28	0.54
1:I:2527:ALA:O	1:I:2531:ILE:HG13	2.07	0.54
1:K:2958:LEU:CD1	1:K:2961:ILE:HD11	2.38	0.54
1:K:3020:LEU:HD21	1:K:3023:VAL:CG2	2.34	0.54
1:K:3057:LYS:HA	1:K:3060:GLN:HG2	1.89	0.54
1:A:124:THR:HG23	1:A:125:GLU:N	2.23	0.54
1:A:142:GLN:HG3	1:A:145:LEU:HB2	1.90	0.54
1:A:220:ALA:O	1:A:224:ILE:HG13	2.07	0.54
2:B:524:ARG:CG	1:C:785:ALA:HB1	2.37	0.54
1:E:1207:ILE:HD12	1:E:1207:ILE:N	2.23	0.54
1:G:1752:PHE:HD2	1:G:1778:ILE:CD1	2.20	0.54
1:G:1863:VAL:HG12	1:G:1867:LEU:HD12	1.90	0.54
2:J:2672:GLU:CB	2:J:2732:SER:HB2	2.37	0.54
2:J:2773:ALA:O	2:J:2777:GLN:HG3	2.08	0.54
2:B:306:TYR:O	2:B:310:GLU:HG2	2.07	0.54
1:E:1213:SER:HB3	1:E:1239:ARG:NH1	2.23	0.54
2:F:1531:LEU:CB	2:F:1532:PRO:HD3	2.38	0.54
2:H:2121:ILE:HD11	2:H:2160:PHE:HE2	1.71	0.54
2:H:2208:GLN:O	2:H:2211:VAL:HG12	2.07	0.54
1:K:2949:ILE:CG1	1:K:2951:PHE:HE2	2.18	0.54
2:D:933:ILE:HG21	2:D:980:VAL:CG1	2.32	0.54
2:D:947:ILE:HG13	2:D:1030:LEU:CD2	2.37	0.54
1:E:1312:LEU:HD12	1:E:1312:LEU:N	2.23	0.54
1:G:1736:VAL:HG23	1:G:1737:ASN:N	2.22	0.54
1:G:1754:ARG:HD3	1:G:1773:TRP:O	2.07	0.54
2:J:2568:LEU:CD1	2:J:2569:PRO:HD2	2.28	0.54
1:K:2877:VAL:HG13	1:K:2878:VAL:N	2.22	0.54
1:A:103:LEU:HA	1:A:106:ILE:HD11	1.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:632:VAL:HB	1:C:633:GLN:NE2	2.21	0.54
2:D:864:THR:HG23	2:D:865:ALA:N	2.21	0.54
2:D:931:ARG:HB2	2:D:951:VAL:CG2	2.38	0.54
2:D:1095:ARG:HB2	1:E:1356:ALA:HB1	1.90	0.54
1:E:1244:GLN:O	1:E:1248:ILE:HD13	2.06	0.54
1:G:1832:LEU:O	1:G:1836:THR:HG22	2.07	0.54
1:G:1951:LEU:CB	2:H:2220:ALA:HB2	2.37	0.54
2:H:2237:ARG:CB	1:I:2498:ALA:HB1	2.34	0.54
1:I:2539:ARG:HB3	2:J:2822:THR:HG21	1.89	0.54
1:K:2965:ILE:HG21	1:K:2969:TYR:CB	2.38	0.54
1:A:214:ALA:HB1	1:K:3094:ARG:HB3	1.90	0.54
2:B:405:LEU:HD23	2:B:405:LEU:O	2.08	0.54
2:B:540:GLN:C	2:J:2827:ILE:HG21	2.28	0.54
1:C:654:LYS:O	1:C:656:LEU:HD22	2.08	0.54
1:C:829:THR:HG23	1:C:829:THR:O	2.08	0.54
1:E:1190:ILE:HD13	1:E:1190:ILE:N	2.15	0.54
2:F:1494:ILE:HG23	2:F:1494:ILE:O	2.08	0.54
2:F:1578:ILE:HG13	2:F:1579:ARG:N	2.23	0.54
1:I:2383:VAL:HG23	1:I:2383:VAL:O	2.08	0.54
1:K:2990:ASP:HB2	1:K:2993:GLU:OE1	2.08	0.54
1:A:212:ILE:HA	1:A:215:GLU:HG2	1.90	0.54
2:D:947:ILE:CD1	2:D:1030:LEU:HD21	2.38	0.54
1:E:1269:LEU:HD21	1:E:1292:VAL:HG21	1.90	0.54
1:E:1272:VAL:HG12	1:E:1276:PHE:HE2	1.73	0.54
2:F:1508:THR:HG21	2:F:1556:LYS:HA	1.89	0.54
1:I:2406:ILE:N	1:I:2406:ILE:HD12	2.23	0.54
1:I:2452:VAL:HG13	1:I:2452:VAL:O	2.07	0.54
1:I:2519:LEU:HD13	1:I:2519:LEU:C	2.28	0.54
1:I:2551:LEU:C	1:I:2551:LEU:HD13	2.28	0.54
1:C:745:THR:HG22	1:C:750:PHE:CE1	2.44	0.54
1:C:745:THR:CG2	1:C:750:PHE:CE1	2.91	0.54
1:E:1289:SER:HA	1:E:1312:LEU:HD11	1.90	0.54
1:E:1373:ALA:O	1:E:1377:LEU:HG	2.07	0.54
2:F:1465:PHE:CZ	2:F:1478:LEU:HD21	2.41	0.54
1:G:1932:LYS:HE3	1:G:1936:LEU:HD21	1.90	0.54
2:J:2627:ARG:HD2	2:J:2632:GLN:O	2.07	0.54
1:K:2907:GLU:HG2	1:K:2908:GLY:N	2.23	0.54
2:B:458:GLU:OE1	2:B:458:GLU:HA	2.07	0.53
1:C:671:ALA:HA	1:C:674:LEU:CD1	2.38	0.53
1:C:754:VAL:HG23	1:C:755:GLU:N	2.23	0.53
1:G:1837:THR:HG23	1:G:1838:GLU:N	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2380:PHE:HD1	1:I:2448:ILE:O	1.91	0.53
1:I:2412:LYS:O	1:I:2415:VAL:HG12	2.08	0.53
2:J:2821:ALA:HB3	1:K:3105:GLN:OE1	2.08	0.53
1:K:2974:LEU:CB	1:K:2975:PRO:HD3	2.35	0.53
1:K:3000:LEU:HD12	1:K:3000:LEU:N	2.23	0.53
2:B:299:LEU:HD13	2:B:299:LEU:C	2.28	0.53
2:B:523:LEU:HD13	1:C:792:ALA:HB1	1.86	0.53
2:B:532:ILE:HD13	2:B:532:ILE:O	2.07	0.53
2:D:848:LEU:HD13	2:D:849:LYS:O	2.08	0.53
1:E:1170:TYR:CD1	1:E:1206:PRO:HG2	2.43	0.53
1:E:1179:VAL:CG1	1:E:1207:ILE:HB	2.38	0.53
1:E:1198:PHE:C	1:E:1199:LEU:HD22	2.29	0.53
2:F:1527:ASN:O	2:F:1531:LEU:HD22	2.09	0.53
2:F:1659:ASN:HB2	2:F:1660:PRO:CD	2.36	0.53
2:F:1665:LEU:HD13	1:G:1930:ASP:CB	2.37	0.53
2:H:2101:GLU:CB	2:H:2161:SER:HB3	2.38	0.53
1:I:2306:VAL:HG13	1:I:2307:VAL:N	2.23	0.53
2:J:2724:LEU:HG	2:J:2735:LEU:CD1	2.36	0.53
1:A:11:LYS:O	1:A:14:LEU:HD23	2.08	0.53
2:D:903:GLN:HA	2:D:961:PRO:HB3	1.90	0.53
2:D:1122:VAL:O	2:D:1122:VAL:HG13	2.09	0.53
2:D:1136:SER:O	2:D:1137:LEU:HD23	2.08	0.53
2:F:1464:ILE:HG23	2:F:1464:ILE:O	2.08	0.53
2:F:1575:SER:O	2:F:1578:ILE:HG12	2.09	0.53
2:F:1620:GLU:O	2:F:1623:ARG:HG2	2.08	0.53
1:G:1750:VAL:HG21	1:G:1816:LEU:HG	1.90	0.53
1:G:1752:PHE:HD2	1:G:1778:ILE:HD13	1.73	0.53
1:G:1934:ALA:HA	1:G:1937:ILE:HD12	1.90	0.53
2:J:2599:VAL:HG12	2:J:2636:ILE:HD12	1.89	0.53
1:A:14:LEU:HD23	1:A:14:LEU:H	1.74	0.53
2:D:947:ILE:CD1	2:D:1027:ILE:HG23	2.38	0.53
1:G:1863:VAL:HG12	1:G:1867:LEU:CD1	2.39	0.53
1:G:1883:LEU:HD12	1:G:1883:LEU:H	1.73	0.53
2:H:2153:LEU:CG	2:H:2164:LEU:HD11	2.37	0.53
1:I:2316:ALA:HA	1:I:2336:GLU:CD	2.29	0.53
1:I:2372:VAL:HG12	1:I:2374:ILE:HG13	1.89	0.53
2:J:2628:ILE:HD12	2:J:2631:PHE:HB2	1.90	0.53
2:J:2770:VAL:HG23	2:J:2771:GLU:N	2.23	0.53
2:J:2794:LEU:HD21	1:K:3066:ILE:CA	2.30	0.53
1:K:3054:VAL:HG23	1:K:3055:VAL:N	2.24	0.53
1:K:3114:TYR:HD1	1:K:3115:LEU:H	1.56	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:ARG:HH11	1:A:43:ARG:CG	2.20	0.53
2:B:486:VAL:HG13	2:B:487:GLU:N	2.24	0.53
2:D:1092:ILE:HD13	2:D:1092:ILE:C	2.28	0.53
1:E:1265:THR:O	1:E:1269:LEU:HG	2.08	0.53
2:F:1466:PHE:HD1	2:F:1472:VAL:CG1	2.22	0.53
2:F:1506:SER:HB2	2:F:1555:LEU:HD13	1.90	0.53
1:G:1763:VAL:HG21	1:G:1768:HIS:ND1	2.23	0.53
2:H:2153:LEU:HD23	2:H:2167:VAL:HG11	1.91	0.53
1:K:2929:ARG:HB2	1:K:2949:ILE:CG1	2.39	0.53
1:K:3091:ILE:O	1:K:3094:ARG:HG2	2.08	0.53
2:B:341:HIS:HB2	2:B:343:ARG:HH12	1.72	0.53
2:B:527:ARG:HB2	1:C:788:ASP:OD2	2.09	0.53
1:C:671:ALA:HA	1:C:674:LEU:HD11	1.91	0.53
2:D:1081:LEU:HD11	2:D:1095:ARG:HD2	1.91	0.53
2:F:1485:ARG:C	2:F:1485:ARG:HD3	2.29	0.53
2:F:1665:LEU:CD2	1:G:1931:SER:CA	2.86	0.53
2:F:1665:LEU:CD2	1:G:1931:SER:CB	2.69	0.53
2:H:2169:ILE:HD13	2:H:2169:ILE:N	2.18	0.53
1:I:2524:LYS:HB2	1:I:2524:LYS:NZ	2.23	0.53
2:B:320:ARG:CZ	2:B:386:ALA:HB1	2.37	0.53
2:B:542:ARG:N	2:J:2827:ILE:HG22	2.24	0.53
2:D:891:ARG:NH1	2:D:957:ALA:HB1	2.24	0.53
2:D:1082:GLY:O	2:D:1085:LEU:HD23	2.09	0.53
1:E:1384:GLU:O	1:E:1387:GLU:HB2	2.08	0.53
2:F:1458:GLU:OE1	2:F:1458:GLU:HA	2.08	0.53
1:G:1751:ILE:HG23	1:G:1775:GLN:CG	2.38	0.53
1:G:1844:VAL:HG13	1:G:1845:ALA:N	2.24	0.53
2:H:2234:ILE:HD12	2:H:2234:ILE:C	2.29	0.53
2:H:2234:ILE:HD12	2:H:2235:LYS:CA	2.39	0.53
1:A:74:ARG:HG3	1:A:119:LEU:CD2	2.39	0.53
1:A:238:LEU:HD22	2:B:507:ALA:N	2.22	0.53
2:B:412:VAL:HG23	2:B:439:GLU:HG2	1.90	0.53
2:F:1478:LEU:HD12	2:F:1478:LEU:N	2.23	0.53
2:F:1665:LEU:CD1	1:G:1930:ASP:CB	2.85	0.53
2:H:2040:ILE:CG1	2:H:2060:PHE:HZ	2.21	0.53
2:H:2075:ILE:HG21	2:H:2122:VAL:HG11	1.90	0.53
1:I:2479:ARG:HA	1:I:2479:ARG:CZ	2.39	0.53
1:K:2998:ARG:HH12	1:K:3025:LEU:CD1	2.13	0.53
1:K:3043:VAL:HG23	1:K:3044:ALA:N	2.22	0.53
1:A:92:LEU:HD11	1:A:168:VAL:HG22	1.91	0.53
1:A:139:LEU:HG	1:A:173:LEU:HD23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1091:TYR:HE2	1:E:1357:GLU:CG	2.22	0.53
1:E:1346:GLU:O	1:E:1349:LYS:HG3	2.09	0.53
2:F:1508:THR:O	2:F:1516:VAL:HG22	2.09	0.53
1:G:1732:ALA:HA	1:G:1735:VAL:CG1	2.38	0.53
2:H:2176:ARG:NH1	2:H:2177:GLU:HG2	2.24	0.53
2:H:2188:ALA:O	2:H:2191:GLU:HG2	2.08	0.53
1:I:2289:VAL:HG13	1:I:2290:PHE:N	2.22	0.53
2:B:461:PHE:CD1	2:B:464:GLU:HB3	2.43	0.53
1:C:821:GLN:HA	1:C:821:GLN:HE21	1.73	0.53
2:D:1094:LEU:HD23	1:E:1363:ALA:HB2	1.91	0.53
2:F:1435:THR:HG23	2:F:1436:ALA:N	2.23	0.53
2:F:1608:THR:HG23	2:F:1609:ALA:N	2.24	0.53
1:G:1762:VAL:CB	1:G:1816:LEU:HD21	2.38	0.53
1:G:1847:PHE:CE2	1:G:1851:GLU:HG2	2.43	0.53
1:G:1948:LEU:O	2:H:2217:ALA:HB2	2.09	0.53
1:I:2522:LEU:HD13	1:I:2525:LEU:HB3	1.85	0.53
1:A:228:LEU:CA	1:A:235:LEU:HD13	2.32	0.52
2:D:1092:ILE:HG23	2:D:1093:LYS:N	2.24	0.52
2:F:1540:LEU:HD22	2:F:1540:LEU:H	1.74	0.52
2:H:2040:ILE:CD1	2:H:2060:PHE:HZ	2.21	0.52
1:K:2939:ASP:O	1:K:2940:LEU:HB2	2.09	0.52
1:K:2943:VAL:HG11	1:K:3028:LEU:HD21	1.90	0.52
1:A:78:VAL:O	1:A:90:ILE:HD13	2.09	0.52
2:H:2172:LEU:O	2:H:2173:SER:HB3	2.09	0.52
2:J:2599:VAL:HG23	2:J:2599:VAL:O	2.08	0.52
1:A:127:LEU:CD1	1:A:131:VAL:HG21	2.39	0.52
1:A:208:LYS:O	1:A:212:ILE:HD13	2.08	0.52
2:B:433:SER:O	2:B:436:ILE:HG12	2.09	0.52
2:B:523:LEU:HD22	1:C:792:ALA:N	2.24	0.52
2:B:545:LEU:HG	2:F:1687:LEU:HD12	1.92	0.52
1:E:1380:LEU:HD12	2:F:1645:GLU:HB3	1.91	0.52
2:F:1665:LEU:CG	1:G:1931:SER:N	2.72	0.52
1:G:1725:PHE:HD1	1:G:1726:GLY:N	2.08	0.52
1:G:1932:LYS:HD2	1:G:1936:LEU:CD1	2.39	0.52
1:I:2349:ILE:CD1	1:I:2351:PHE:CZ	2.92	0.52
1:I:2547:GLY:O	1:I:2548:GLN:HB3	2.09	0.52
2:J:2666:SER:CB	2:J:2733:LEU:HD11	2.08	0.52
1:K:2892:VAL:HG21	1:K:2962:PHE:CD2	2.43	0.52
1:A:58:ILE:HB	1:A:61:VAL:CG2	2.39	0.52
2:B:357:ALA:HB2	2:B:383:ARG:CG	2.39	0.52
2:B:441:THR:HA	2:B:451:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:489:ALA:O	2:B:492:GLU:HG2	2.09	0.52
1:G:1731:VAL:O	1:G:1735:VAL:HG12	2.10	0.52
1:I:2376:LEU:HD11	1:I:2411:LEU:HG	1.91	0.52
1:I:2520:ILE:O	1:I:2523:ARG:HG2	2.09	0.52
1:K:3059:GLU:HA	1:K:3062:LYS:CE	2.39	0.52
1:A:27:LEU:HD11	1:A:54:THR:OG1	2.09	0.52
1:A:119:LEU:O	1:A:123:THR:HG23	2.10	0.52
2:B:436:ILE:HG13	2:B:437:ARG:N	2.25	0.52
1:C:579:SER:O	1:C:583:PHE:HD2	1.92	0.52
1:C:697:ILE:HD11	1:C:728:ARG:HG3	1.91	0.52
1:C:795:ILE:HD11	2:D:1071:ALA:HB3	1.91	0.52
1:C:843:GLN:HG3	1:C:843:GLN:O	2.09	0.52
2:D:906:ILE:HD13	2:D:958:GLN:HA	1.92	0.52
2:D:1057:VAL:HG23	2:D:1058:GLU:N	2.24	0.52
2:D:1094:LEU:CG	1:E:1363:ALA:CB	2.82	0.52
1:E:1373:ALA:HB1	1:E:1377:LEU:HG	1.87	0.52
1:K:2945:ILE:HD11	1:K:3028:LEU:CD2	2.39	0.52
1:K:3121:VAL:HG12	1:K:3122:LEU:N	2.24	0.52
1:A:215:GLU:HB2	1:K:3090:LEU:HD11	1.87	0.52
2:B:567:ILE:HG23	2:B:567:ILE:O	2.09	0.52
1:C:656:LEU:HD22	1:C:656:LEU:N	2.24	0.52
1:C:674:LEU:HB2	1:C:675:PRO:HD3	1.91	0.52
1:C:685:TYR:HE1	1:C:734:LEU:CD1	2.06	0.52
2:D:902:GLN:OE1	2:D:902:GLN:HA	2.09	0.52
2:D:1087:LYS:O	2:D:1091:TYR:HB3	2.10	0.52
1:E:1282:ILE:HG13	1:E:1283:THR:N	2.24	0.52
2:H:2036:PHE:HE2	2:H:2038:ASN:HD21	1.58	0.52
1:I:2314:VAL:HG13	1:I:2336:GLU:CA	2.34	0.52
1:I:2349:ILE:HG13	1:I:2349:ILE:O	2.09	0.52
1:I:2363:ILE:HG23	1:I:2363:ILE:O	2.10	0.52
1:I:2488:GLU:O	1:I:2491:LYS:HB3	2.10	0.52
1:A:5:VAL:HG23	1:A:6:PHE:N	2.24	0.52
1:A:36:ALA:O	1:A:50:VAL:HG12	2.10	0.52
1:C:795:ILE:HG23	1:C:796:ALA:N	2.24	0.52
2:F:1461:HIS:CB	2:F:1494:ILE:HD11	2.38	0.52
2:H:2033:ARG:CG	2:H:2068:ILE:HG12	2.39	0.52
2:H:2139:ILE:HG23	2:H:2140:THR:N	2.24	0.52
2:H:2229:LYS:CB	2:H:2233:TYR:CZ	2.93	0.52
1:I:2442:ALA:HB1	1:I:2447:LEU:CD1	2.40	0.52
1:I:2512:LEU:HD13	1:I:2523:ARG:CD	2.39	0.52
2:J:2704:PHE:CD2	2:J:2708:GLN:CB	2.93	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2989:PHE:CZ	1:K:3001:VAL:HG22	2.44	0.52
1:A:90:ILE:HG22	1:A:173:LEU:HG	1.92	0.52
2:D:898:ILE:HG13	2:D:918:PHE:HE2	1.74	0.52
2:D:976:LEU:CB	2:D:977:PRO:HD3	2.35	0.52
1:E:1400:THR:HG23	1:E:1401:TYR:N	2.25	0.52
2:F:1458:GLU:HG3	2:F:1459:GLY:N	2.25	0.52
2:F:1642:ALA:HA	2:F:1645:GLU:HG2	1.91	0.52
2:H:2075:ILE:HD11	2:H:2123:ASN:ND2	2.25	0.52
1:I:2512:LEU:HG	1:I:2520:ILE:CG1	2.37	0.52
1:I:2552:LEU:HD13	1:I:2552:LEU:C	2.30	0.52
2:D:1093:LYS:C	2:D:1094:LEU:HD22	2.30	0.52
2:D:1115:TYR:C	2:D:1116:LEU:HD12	2.30	0.52
1:E:1266:THR:HG23	1:E:1267:GLU:N	2.23	0.52
1:G:1823:ILE:HD12	1:G:1827:TYR:HA	1.90	0.52
2:H:2167:VAL:HG23	2:H:2167:VAL:O	2.09	0.52
1:I:2349:ILE:CD1	1:I:2391:PHE:CE2	2.93	0.52
2:J:2745:PHE:O	2:J:2749:TYR:HB3	2.09	0.52
2:F:1450:VAL:HG13	2:F:1451:ARG:N	2.24	0.52
2:F:1709:ILE:HG23	2:F:1709:ILE:O	2.09	0.52
2:H:2198:LEU:HD23	2:H:2198:LEU:H	1.75	0.52
2:J:2611:ILE:HG23	2:J:2612:GLY:N	2.24	0.52
1:K:3055:VAL:HG23	1:K:3056:GLU:N	2.24	0.52
1:A:239:ARG:HG3	2:B:500:ALA:HB2	1.92	0.51
2:F:1468:ARG:HB3	2:F:1489:PHE:HE1	1.74	0.51
2:F:1665:LEU:HD21	1:G:1928:GLU:CA	2.39	0.51
1:G:1970:ILE:HD12	1:G:1970:ILE:C	2.30	0.51
2:H:2138:LEU:CD2	2:H:2172:LEU:HD23	2.39	0.51
1:I:2435:SER:HB2	1:I:2452:VAL:CG1	2.40	0.51
2:J:2628:ILE:CD1	2:J:2631:PHE:HB2	2.39	0.51
1:K:2954:VAL:HG23	1:K:2954:VAL:O	2.10	0.51
1:K:2954:VAL:HG12	1:K:3019:ILE:HG12	1.91	0.51
2:B:372:GLN:CD	2:B:422:ALA:HB2	2.30	0.51
1:C:729:ALA:CB	1:C:736:LEU:HD11	2.41	0.51
1:C:745:THR:CB	1:C:746:PHE:CA	2.89	0.51
2:D:915:ILE:HG12	2:D:916:PRO:HD2	1.93	0.51
2:F:1658:LYS:CB	2:F:1662:TYR:CE1	2.93	0.51
2:H:2035:ILE:HD13	2:H:2035:ILE:C	2.30	0.51
1:I:2321:VAL:HG12	1:I:2349:ILE:HG13	1.92	0.51
1:I:2339:HIS:CD2	1:I:2340:PHE:H	2.28	0.51
2:J:2662:LEU:HD22	2:J:2662:LEU:N	2.24	0.51
1:K:2947:LEU:HG	1:K:2982:LEU:HD12	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2950:LEU:HB2	1:K:3021:ASP:HB3	1.90	0.51
1:A:126:ILE:HD11	1:A:157:ARG:NE	2.25	0.51
2:D:898:ILE:HG13	2:D:918:PHE:CE2	2.45	0.51
1:G:1809:PHE:CE1	1:G:1832:LEU:CD1	2.94	0.51
2:H:2009:LYS:C	2:H:2009:LYS:HD3	2.31	0.51
2:B:524:ARG:HD2	1:C:785:ALA:HB1	1.93	0.51
1:C:795:ILE:HD13	2:D:1068:ILE:HA	1.91	0.51
2:D:1114:ILE:CG2	2:D:1115:TYR:H	2.22	0.51
1:E:1264:ILE:HD12	1:E:1264:ILE:N	2.26	0.51
2:F:1462:ARG:HD2	2:F:1528:ALA:HB1	1.91	0.51
2:F:1525:ARG:HD2	2:F:1594:ASP:CG	2.29	0.51
2:F:1582:LEU:HD21	2:F:1596:VAL:HG11	1.91	0.51
1:G:1949:ILE:HG23	1:G:1950:GLU:N	2.25	0.51
2:H:2066:TYR:HH	2:H:2106:TYR:HB2	1.75	0.51
1:I:2380:PHE:CE1	1:I:2447:LEU:CD2	2.93	0.51
2:J:2786:GLY:O	2:J:2789:GLU:HG2	2.11	0.51
2:J:2787:GLU:OE1	2:J:2787:GLU:HA	2.11	0.51
2:J:2798:LEU:CD1	2:J:2808:ARG:HH11	2.21	0.51
2:B:408:ILE:HG13	2:B:447:PHE:CE2	2.45	0.51
1:C:670:VAL:CG1	1:C:673:GLN:CG	2.87	0.51
1:G:1899:LYS:HG3	1:G:1900:GLN:N	2.25	0.51
2:H:2150:ARG:HG3	2:H:2167:VAL:HG22	1.92	0.51
2:H:2280:ILE:HG23	2:H:2280:ILE:O	2.11	0.51
1:I:2312:TYR:CZ	1:I:2341:LEU:CD2	2.93	0.51
1:I:2449:LEU:HD11	1:I:2451:ASP:O	2.10	0.51
2:J:2568:LEU:HD12	2:J:2569:PRO:CD	2.32	0.51
1:K:2924:CYS:O	1:K:2952:ARG:HG3	2.11	0.51
1:K:3093:LEU:HD21	1:K:3096:LEU:HB3	1.84	0.51
1:A:238:LEU:HD21	1:A:241:LEU:CD2	2.40	0.51
2:B:293:THR:HG23	2:B:294:ALA:N	2.26	0.51
2:D:895:PHE:HB2	2:D:901:VAL:HA	1.91	0.51
2:D:947:ILE:HG13	2:D:1030:LEU:HD21	1.92	0.51
2:D:1085:LEU:HA	2:D:1091:TYR:CD1	2.46	0.51
2:D:1091:TYR:CE2	1:E:1357:GLU:CB	2.93	0.51
1:E:1209:PHE:HZ	1:E:1254:GLU:HB3	1.76	0.51
1:E:1234:LEU:HD22	1:E:1269:LEU:HD21	1.92	0.51
1:G:1725:PHE:CD1	1:G:1726:GLY:N	2.79	0.51
1:G:1803:ILE:HD11	1:G:1883:LEU:CG	2.40	0.51
1:I:2376:LEU:HD23	1:I:2454:LEU:HA	1.93	0.51
1:I:2454:LEU:HD12	1:I:2454:LEU:N	2.26	0.51
1:K:2920:ILE:HG12	1:K:2962:PHE:HZ	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2958:LEU:O	1:K:2961:ILE:HG12	2.10	0.51
1:K:3091:ILE:HG23	1:K:3092:GLU:N	2.25	0.51
1:A:235:LEU:CD2	2:B:504:ALA:HB2	2.31	0.51
2:B:360:ARG:HD3	2:B:361:LYS:N	2.24	0.51
2:F:1474:GLN:O	2:F:1532:PRO:HG2	2.11	0.51
2:F:1538:LEU:HD11	2:F:1545:ARG:CB	2.39	0.51
1:G:1762:VAL:O	1:G:1762:VAL:HG13	2.10	0.51
1:G:1957:ALA:O	1:G:1960:ILE:HG23	2.09	0.51
2:H:2035:ILE:CG2	2:H:2064:ILE:HD11	2.30	0.51
1:I:2332:ILE:HG23	1:I:2332:ILE:O	2.09	0.51
2:J:2798:LEU:HD12	2:J:2804:TYR:CD2	2.45	0.51
1:K:2890:ARG:NH1	1:K:2906:GLY:HA2	2.25	0.51
1:A:27:LEU:HD12	1:A:55:HIS:O	2.11	0.51
1:A:186:LYS:HA	1:A:186:LYS:CE	2.41	0.51
1:E:1378:ILE:HG23	1:E:1379:GLU:N	2.26	0.51
1:E:1398:ASN:HD21	2:F:1681:SER:C	2.14	0.51
1:G:1752:PHE:HB3	1:G:1776:LYS:CG	2.41	0.51
1:G:1777:PRO:C	1:G:1778:ILE:HD12	2.30	0.51
1:G:1787:ARG:O	1:G:1807:ILE:HG22	2.10	0.51
2:J:2646:ILE:HD13	2:J:2646:ILE:C	2.31	0.51
2:J:2745:PHE:CB	2:J:2748:GLU:HB2	2.40	0.51
1:K:2913:ILE:HG23	1:K:2916:VAL:HB	1.91	0.51
1:K:2981:ILE:HG13	1:K:2982:LEU:N	2.26	0.51
1:A:91:THR:O	1:A:171:THR:HG22	2.11	0.51
1:C:684:ASP:OD1	1:C:688:ARG:HG3	2.11	0.51
2:F:1455:PHE:CZ	2:F:1457:VAL:CG2	2.94	0.51
1:G:1809:PHE:CD1	1:G:1832:LEU:HD11	2.46	0.51
1:G:1951:LEU:O	2:H:2216:GLU:HB3	2.11	0.51
1:G:1971:THR:HG22	2:H:2253:GLN:NE2	2.26	0.51
2:H:2028:VAL:HG22	2:H:2052:GLY:O	2.10	0.51
2:H:2234:ILE:HD12	2:H:2235:LYS:HA	1.93	0.51
1:A:74:ARG:HG3	1:A:119:LEU:HD23	1.92	0.51
2:B:456:ILE:HG23	2:B:456:ILE:O	2.10	0.51
2:B:469:VAL:HG13	2:B:470:GLU:N	2.26	0.51
1:E:1220:VAL:HG13	1:E:1220:VAL:O	2.11	0.51
1:E:1260:VAL:HG21	1:E:1303:PHE:CD2	2.46	0.51
1:E:1268:ILE:CD1	1:E:1296:LEU:HD13	2.41	0.51
1:E:1276:PHE:CE2	1:E:1288:VAL:CG2	2.94	0.51
1:G:1763:VAL:HG23	1:G:1768:HIS:CE1	2.46	0.51
2:H:2105:MET:HG3	2:H:2113:TYR:CE1	2.46	0.51
1:I:2382:PRO:HB2	1:I:2387:LEU:HD21	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2462:GLU:HA	1:I:2465:GLU:CG	2.40	0.51
2:J:2733:LEU:CD1	2:J:2735:LEU:HD23	2.41	0.51
1:C:681:ILE:HD12	1:C:685:TYR:CB	2.32	0.50
2:D:894:PHE:HZ	2:D:914:ARG:HG2	1.75	0.50
2:D:995:GLN:O	2:D:999:GLN:HB2	2.11	0.50
2:F:1586:ALA:HB1	2:F:1591:LEU:CD2	2.40	0.50
2:F:1664:LYS:O	2:F:1668:ILE:HG12	2.11	0.50
2:H:2045:GLN:HA	2:H:2103:PRO:HB2	1.92	0.50
2:H:2090:SER:OG	2:H:2170:THR:HB	2.10	0.50
2:J:2635:ILE:HG23	2:J:2635:ILE:O	2.11	0.50
2:J:2680:LEU:HB3	2:J:2684:TYR:HD1	1.75	0.50
2:J:2829:LEU:HD22	2:J:2829:LEU:N	2.26	0.50
1:K:3030:PHE:O	1:K:3034:PHE:HB2	2.11	0.50
1:A:88:VAL:HG13	1:A:88:VAL:O	2.12	0.50
1:A:228:LEU:HG	1:A:235:LEU:HD13	1.92	0.50
2:B:517:ASN:CG	2:B:518:PRO:HD2	2.31	0.50
2:B:553:ASN:C	2:B:554:LEU:HD22	2.32	0.50
2:D:1085:LEU:HD12	2:D:1085:LEU:C	2.32	0.50
1:E:1325:VAL:HG23	1:E:1326:GLU:N	2.26	0.50
2:F:1694:LEU:HD12	2:F:1694:LEU:N	2.26	0.50
1:G:1732:ALA:HA	1:G:1735:VAL:HG12	1.92	0.50
1:G:1847:PHE:HZ	1:G:1855:GLN:HG2	1.74	0.50
1:G:1912:VAL:HG13	1:G:1913:VAL:N	2.25	0.50
2:J:2740:ILE:O	2:J:2740:ILE:HG13	2.11	0.50
2:B:381:LEU:N	2:B:381:LEU:HD12	2.26	0.50
1:C:697:ILE:CD1	1:C:725:LEU:HA	2.40	0.50
2:D:922:ILE:CD1	2:D:964:TYR:CE2	2.93	0.50
2:D:975:VAL:O	2:D:979:ILE:HD13	2.11	0.50
1:E:1278:ALA:HA	1:E:1281:LEU:HG	1.93	0.50
2:F:1601:LEU:HD23	2:F:1601:LEU:C	2.31	0.50
1:G:1819:ILE:CG2	1:G:1827:TYR:CD1	2.95	0.50
2:H:2101:GLU:HB2	2:H:2161:SER:HB3	1.93	0.50
1:I:2322:ILE:HG23	1:I:2330:GLN:HB2	1.93	0.50
1:I:2340:PHE:C	1:I:2341:LEU:HD12	2.31	0.50
1:I:2372:VAL:HG13	1:I:2457:LEU:CD2	2.42	0.50
1:I:2394:ILE:CG2	1:I:2398:TYR:HA	2.39	0.50
1:I:2406:ILE:O	1:I:2409:GLU:HG2	2.12	0.50
1:I:2462:GLU:HA	1:I:2465:GLU:HG2	1.93	0.50
2:J:2568:LEU:HG	2:J:2569:PRO:N	2.27	0.50
2:J:2606:ILE:HB	2:J:2637:TYR:CE2	2.42	0.50
2:J:2806:LYS:O	2:J:2809:LYS:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2912:LEU:CD2	1:K:2919:PRO:HD3	2.41	0.50
1:A:22:VAL:HG23	1:A:23:VAL:N	2.26	0.50
2:B:304:VAL:HG13	2:B:305:ALA:N	2.26	0.50
2:B:389:LEU:HB2	2:B:390:PRO:CD	2.42	0.50
2:B:527:ARG:O	2:B:527:ARG:HD3	2.11	0.50
1:C:593:VAL:HG13	1:C:594:VAL:N	2.25	0.50
1:C:802:ALA:CB	1:C:806:LEU:CD1	2.89	0.50
2:D:895:PHE:HB3	2:D:901:VAL:HA	1.92	0.50
2:D:1025:VAL:O	2:D:1025:VAL:HG23	2.11	0.50
1:E:1378:ILE:CD1	1:E:1381:ARG:HD2	2.42	0.50
2:F:1538:LEU:HD23	2:F:1589:PHE:CZ	2.46	0.50
2:F:1665:LEU:HD22	1:G:1931:SER:H	1.76	0.50
1:G:1799:GLN:OE1	1:G:1799:GLN:HA	2.11	0.50
1:I:2431:SER:HA	1:I:2454:LEU:HD11	1.92	0.50
2:J:2619:ILE:O	2:J:2619:ILE:HG12	2.12	0.50
2:J:2648:SER:HB2	2:J:2697:LEU:HD23	1.94	0.50
2:J:2774:LYS:O	2:J:2774:LYS:HD3	2.12	0.50
2:J:2782:VAL:HG23	2:J:2783:GLN:N	2.26	0.50
1:K:2974:LEU:O	1:K:2978:THR:HG22	2.11	0.50
1:A:39:PHE:CE1	1:A:65:ILE:CG1	2.95	0.50
2:B:285:PRO:O	2:B:286:ALA:HB2	2.11	0.50
2:B:324:PHE:HB2	2:B:351:ILE:HD11	1.94	0.50
2:D:906:ILE:HD11	2:D:958:GLN:HA	1.90	0.50
1:E:1230:VAL:O	1:E:1230:VAL:HG23	2.10	0.50
1:E:1260:VAL:HG21	1:E:1303:PHE:CE2	2.46	0.50
2:F:1581:GLU:O	2:F:1585:ARG:HG2	2.12	0.50
1:G:1944:ALA:HB1	1:G:1948:LEU:HD13	1.93	0.50
2:H:2214:GLU:O	2:H:2217:ALA:HB3	2.11	0.50
1:K:2949:ILE:CB	1:K:2951:PHE:CE2	2.94	0.50
1:A:163:LEU:HD22	1:A:163:LEU:N	2.25	0.50
1:C:665:ILE:CG2	1:C:667:PHE:CD1	2.94	0.50
2:F:1476:THR:HG23	2:F:1476:THR:O	2.11	0.50
1:G:1839:ILE:HG23	1:G:1840:LEU:N	2.25	0.50
2:H:2150:ARG:HB2	2:H:2167:VAL:CG2	2.41	0.50
1:I:2368:ASP:O	1:I:2369:LEU:HB2	2.12	0.50
2:J:2654:ASP:O	2:J:2655:LEU:HB3	2.12	0.50
1:K:2982:LEU:HD23	1:K:2982:LEU:C	2.31	0.50
1:C:709:GLU:HG3	1:C:713:GLN:CB	2.41	0.50
2:D:964:TYR:HE1	2:D:969:LEU:CG	2.20	0.50
2:D:1088:ASN:HB2	2:D:1089:PRO:CD	2.41	0.50
2:D:1094:LEU:CD1	2:D:1097:ILE:CG2	2.90	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1221:ILE:CG2	1:E:1231:ASN:HD21	2.22	0.50
2:F:1708:LEU:HD22	2:F:1708:LEU:N	2.26	0.50
1:G:1725:PHE:HD1	1:G:1726:GLY:H	1.59	0.50
2:H:2028:VAL:HG23	2:H:2052:GLY:H	1.77	0.50
1:A:49:VAL:O	1:A:49:VAL:HG13	2.12	0.50
1:A:54:THR:HG23	1:A:54:THR:O	2.12	0.50
1:A:219:LYS:HD2	1:A:219:LYS:C	2.31	0.50
2:D:967:LEU:HD13	2:D:967:LEU:C	2.32	0.50
2:D:1031:SER:HG	2:D:1036:TYR:CB	2.24	0.50
1:E:1199:LEU:HB3	1:E:1204:GLN:CG	2.42	0.50
2:F:1468:ARG:HB2	2:F:1489:PHE:HD1	1.77	0.50
1:G:1818:ARG:HA	1:G:1821:THR:HG22	1.93	0.50
2:H:2265:LEU:HB3	2:H:2267:LEU:CD1	2.36	0.50
1:I:2487:ALA:HA	1:I:2490:GLN:HE21	1.77	0.50
1:I:2512:LEU:CD1	1:I:2523:ARG:HD3	2.42	0.50
2:J:2733:LEU:HD12	2:J:2735:LEU:CD2	2.41	0.50
2:B:524:ARG:CD	1:C:785:ALA:HB1	2.42	0.50
1:C:681:ILE:HG13	1:C:685:TYR:CB	2.40	0.50
1:C:799:LEU:CD2	1:C:806:LEU:HD22	2.42	0.50
1:C:831:LEU:H	1:C:831:LEU:CD2	2.19	0.50
2:D:1007:ILE:HG23	2:D:1008:ARG:N	2.27	0.50
2:F:1486:ILE:HD11	2:F:1490:GLN:HE21	1.76	0.50
2:H:2028:VAL:HG23	2:H:2028:VAL:O	2.12	0.50
1:I:2341:LEU:O	1:I:2343:PRO:HD3	2.12	0.50
2:J:2646:ILE:HD13	2:J:2647:SER:N	2.27	0.50
2:B:385:ASN:ND2	2:B:388:GLU:HB3	2.23	0.49
1:C:681:ILE:CG1	1:C:685:TYR:HB3	2.41	0.49
2:D:1087:LYS:HB3	2:D:1091:TYR:CD2	2.47	0.49
1:E:1380:LEU:HG	2:F:1649:ALA:HB2	1.91	0.49
1:E:1409:LEU:C	1:E:1410:LEU:HD12	2.33	0.49
1:G:1941:LEU:CA	1:G:1948:LEU:HD23	2.30	0.49
2:H:2035:ILE:HD11	2:H:2043:VAL:HG13	1.92	0.49
2:H:2249:ILE:HG23	2:H:2250:ALA:N	2.27	0.49
1:I:2431:SER:HA	1:I:2454:LEU:CD1	2.42	0.49
1:K:2912:LEU:O	1:K:2914:PRO:HD3	2.12	0.49
1:A:102:GLN:O	1:A:106:ILE:HG13	2.11	0.49
1:C:662:THR:HG23	1:C:662:THR:O	2.11	0.49
1:C:753:ALA:HB1	1:C:757:LYS:HZ1	1.77	0.49
2:D:889:GLY:O	2:D:926:ILE:HB	2.12	0.49
1:G:1917:GLU:O	1:G:1920:LYS:HG2	2.11	0.49
2:H:2035:ILE:CG2	2:H:2064:ILE:HG12	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2313:ASN:HD22	1:I:2338:THR:HG22	1.78	0.49
1:I:2383:VAL:HG23	1:I:2386:GLN:CB	2.40	0.49
2:J:2614:VAL:HG23	2:J:2614:VAL:O	2.12	0.49
2:J:2680:LEU:HD21	2:J:2687:ARG:HB3	1.94	0.49
1:K:2892:VAL:CG1	1:K:2922:PHE:CZ	2.95	0.49
1:A:6:PHE:O	1:A:9:ILE:HB	2.11	0.49
1:A:146:VAL:HG13	1:A:147:SER:N	2.26	0.49
2:B:424:GLN:O	2:B:428:GLN:HB2	2.12	0.49
1:C:710:LEU:HG	1:C:744:LEU:CD1	2.41	0.49
1:C:816:GLU:HG2	1:C:820:TYR:CD1	2.47	0.49
2:D:875:VAL:HG13	2:D:876:ALA:N	2.27	0.49
1:G:1767:THR:HG23	1:G:1767:THR:O	2.11	0.49
2:H:2045:GLN:HG2	2:H:2107:GLN:NE2	2.28	0.49
1:K:2969:TYR:HE2	1:K:3018:LEU:CD1	2.22	0.49
1:K:3083:LEU:CA	1:K:3090:LEU:HD23	2.31	0.49
2:B:498:VAL:HG23	2:B:499:GLN:N	2.26	0.49
1:C:663:LEU:CG	1:C:698:LEU:HD22	2.42	0.49
2:D:901:VAL:HG23	2:D:901:VAL:O	2.12	0.49
2:D:996:LEU:CD2	2:D:1003:VAL:HG21	2.42	0.49
1:E:1238:PHE:C	1:E:1239:ARG:HG3	2.32	0.49
1:G:1832:LEU:CB	1:G:1833:PRO:HD3	2.39	0.49
1:G:1971:THR:HG21	2:H:2253:GLN:OE1	2.13	0.49
2:H:2223:LEU:HD13	1:I:2495:ILE:HA	1.95	0.49
1:I:2387:LEU:HB2	1:I:2388:PRO:HD3	1.94	0.49
1:C:690:LEU:HB3	1:C:691:PRO:HD3	1.94	0.49
2:F:1662:TYR:O	2:F:1665:LEU:CG	2.61	0.49
2:F:1662:TYR:O	2:F:1665:LEU:HG	2.13	0.49
2:J:2798:LEU:HD13	2:J:2808:ARG:HD3	1.94	0.49
1:A:258:THR:HG22	1:A:259:TYR:N	2.27	0.49
1:C:827:ASN:HD21	2:D:1111:GLN:N	2.10	0.49
2:D:848:LEU:HD13	2:D:848:LEU:C	2.33	0.49
1:E:1200:ILE:HB	1:E:1203:VAL:HG21	1.94	0.49
1:E:1377:LEU:CA	2:F:1646:ALA:CB	2.77	0.49
2:H:2057:ILE:HG23	2:H:2058:PRO:HD2	1.95	0.49
1:I:2403:LEU:HB3	1:I:2404:PRO:CD	2.33	0.49
2:J:2716:VAL:HG13	2:J:2717:SER:N	2.28	0.49
1:K:2893:ILE:CG2	1:K:2917:GLN:CG	2.91	0.49
2:B:388:GLU:HG3	2:B:391:SER:HB2	1.94	0.49
1:C:669:PRO:HB3	1:C:685:TYR:OH	2.13	0.49
1:C:806:LEU:HD11	2:D:1072:GLU:CA	2.42	0.49
2:D:1094:LEU:CD1	2:D:1097:ILE:HG21	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1538:LEU:HD12	2:F:1542:TYR:CA	2.42	0.49
1:G:1823:ILE:HG23	1:G:1874:PHE:HE1	1.76	0.49
2:H:2162:LEU:HD23	2:H:2162:LEU:C	2.32	0.49
1:I:2479:ARG:O	1:I:2483:VAL:HG23	2.13	0.49
2:J:2798:LEU:CD1	2:J:2805:ILE:HA	2.43	0.49
1:K:2922:PHE:CG	1:K:2958:LEU:CD1	2.95	0.49
1:A:37:VAL:O	1:A:37:VAL:HG23	2.13	0.49
1:C:837:VAL:HG12	1:C:839:LEU:HG	1.93	0.49
2:D:915:ILE:CG2	2:D:919:GLN:HG3	2.39	0.49
1:E:1362:ALA:O	1:E:1366:ILE:HG13	2.12	0.49
2:F:1576:LEU:HD13	2:F:1576:LEU:O	2.13	0.49
1:G:1807:ILE:CG1	1:G:1878:LEU:CD1	2.91	0.49
2:H:2195:ALA:O	2:H:2198:LEU:HD23	2.13	0.49
2:H:2253:GLN:OE1	1:I:2538:SER:HA	2.13	0.49
2:J:2608:PHE:CE2	2:J:2633:TYR:CB	2.94	0.49
1:A:127:LEU:HD11	1:A:131:VAL:HG21	1.94	0.49
1:A:139:LEU:HG	1:A:173:LEU:CD2	2.43	0.49
1:A:151:SER:HB3	1:A:168:VAL:CG1	2.42	0.49
2:B:449:LEU:HD22	2:B:450:ILE:H	1.78	0.49
1:C:690:LEU:O	1:C:690:LEU:HD23	2.13	0.49
1:C:735:ILE:HD13	1:C:735:ILE:H	1.78	0.49
1:C:736:LEU:HD12	1:C:736:LEU:N	2.28	0.49
2:D:954:ARG:NH1	2:D:1021:ILE:HG21	2.28	0.49
2:D:1097:ILE:CG2	2:D:1098:ARG:N	2.76	0.49
1:E:1191:VAL:HG23	1:E:1191:VAL:O	2.13	0.49
1:E:1370:LEU:HD23	1:E:1374:GLY:O	2.13	0.49
1:G:1807:ILE:HG12	1:G:1878:LEU:CD1	2.42	0.49
1:G:1944:ALA:CB	1:G:1948:LEU:CB	2.91	0.49
2:H:2230:ASN:ND2	2:H:2232:GLY:H	2.11	0.49
2:H:2236:LEU:CG	2:H:2239:ILE:HD12	2.43	0.49
1:I:2322:ILE:HG23	1:I:2322:ILE:O	2.11	0.49
1:I:2380:PHE:CE1	1:I:2447:LEU:HD23	2.47	0.49
1:I:2397:ASP:O	1:I:2400:GLU:HG3	2.11	0.49
2:J:2808:ARG:HG2	1:K:3069:ALA:C	2.33	0.49
1:K:2994:LEU:HB3	1:K:3028:LEU:HD11	1.95	0.49
1:A:168:VAL:HG13	1:A:168:VAL:O	2.13	0.49
1:A:173:LEU:HD12	1:A:173:LEU:N	2.28	0.49
1:A:228:LEU:HD21	1:A:239:ARG:HD3	1.95	0.49
1:A:238:LEU:HD21	1:A:241:LEU:HD23	1.94	0.49
2:B:523:LEU:HD11	2:B:526:ILE:HG12	1.95	0.49
2:B:557:GLU:HG3	2:B:557:GLU:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:667:PHE:CZ	1:C:690:LEU:CD1	2.95	0.49
2:D:949:LEU:HB2	2:D:984:LEU:HD11	1.95	0.49
2:D:950:ARG:HE	2:D:952:LEU:HD11	1.78	0.49
2:D:985:LYS:O	2:D:988:VAL:HG12	2.13	0.49
2:D:1091:TYR:HE2	1:E:1357:GLU:CB	2.26	0.49
1:E:1296:LEU:HD23	1:E:1307:LEU:CD1	2.38	0.49
2:F:1472:VAL:HG11	2:F:1535:TYR:CD2	2.48	0.49
2:F:1520:LEU:HD11	2:F:1555:LEU:HD12	1.95	0.49
2:F:1676:LYS:HA	1:G:1963:GLN:OE1	2.12	0.49
1:G:1847:PHE:CD2	1:G:1851:GLU:HB3	2.48	0.49
1:I:2341:LEU:HD21	1:I:2348:PRO:CG	2.42	0.49
1:I:2349:ILE:HD11	1:I:2391:PHE:CD2	2.48	0.49
1:I:2543:TYR:HB2	1:I:2545:PRO:HD3	1.94	0.49
1:K:2974:LEU:HD22	1:K:2974:LEU:N	2.28	0.49
1:A:122:ILE:O	1:A:126:ILE:HG12	2.13	0.48
1:A:231:ALA:HB3	1:A:235:LEU:CB	2.43	0.48
1:A:253:ARG:HD3	1:K:3110:ARG:HA	1.93	0.48
2:B:432:VAL:HG13	2:B:433:SER:N	2.28	0.48
1:C:806:LEU:HG	2:D:1072:GLU:HA	1.94	0.48
2:F:1603:PHE:CD2	2:F:1606:GLU:CB	2.93	0.48
1:G:1732:ALA:O	1:G:1735:VAL:HG13	2.13	0.48
1:G:1797:ASP:O	1:G:1798:LEU:HB2	2.13	0.48
1:G:1864:SER:OG	1:G:1881:VAL:HB	2.12	0.48
2:H:2001:PRO:HB3	2:H:2004:MET:CE	2.43	0.48
2:H:2239:ILE:O	2:H:2243:GLN:HG3	2.12	0.48
1:I:2372:VAL:CG1	1:I:2457:LEU:CD2	2.91	0.48
1:I:2515:ALA:CB	1:I:2519:LEU:CG	2.90	0.48
2:J:2607:PHE:CZ	2:J:2620:LEU:CD2	2.93	0.48
1:A:79:ILE:HD11	1:A:89:ASN:ND2	2.29	0.48
1:A:217:ASP:O	1:K:3093:LEU:CB	2.61	0.48
2:D:1087:LYS:HD2	2:D:1091:TYR:HD2	1.78	0.48
1:E:1384:GLU:CD	1:E:1387:GLU:HG3	2.33	0.48
2:F:1485:ARG:NH2	2:F:1492:PRO:HD2	2.28	0.48
1:I:2403:LEU:O	1:I:2407:THR:HG22	2.13	0.48
2:J:2614:VAL:HG11	2:J:2677:TYR:CE1	2.48	0.48
2:J:2793:MET:CE	1:K:3062:LYS:HB2	2.43	0.48
1:K:2965:ILE:CG2	1:K:2969:TYR:HB2	2.43	0.48
1:K:3094:ARG:HG3	1:K:3095:LYS:N	2.28	0.48
1:A:57:LEU:HD13	1:A:64:PRO:CD	2.44	0.48
1:A:151:SER:CA	1:A:168:VAL:HG11	2.41	0.48
2:D:894:PHE:HE2	2:D:919:GLN:CD	2.16	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1004:SER:HB2	2:D:1027:ILE:HD13	1.95	0.48
1:I:2415:VAL:HG13	1:I:2416:ALA:N	2.28	0.48
1:I:2522:LEU:HD22	2:J:2791:ALA:HB2	1.95	0.48
1:K:2885:VAL:HG13	1:K:2885:VAL:O	2.12	0.48
2:B:364:SER:HB2	2:B:410:ASN:HD21	1.79	0.48
1:E:1380:LEU:HD12	2:F:1645:GLU:C	2.33	0.48
2:F:1457:VAL:HG12	2:F:1458:GLU:O	2.14	0.48
2:F:1534:MET:HE3	2:F:1542:TYR:CE1	2.48	0.48
2:H:2045:GLN:HG2	2:H:2107:GLN:HE22	1.78	0.48
1:I:2515:ALA:HB3	1:I:2519:LEU:CB	2.43	0.48
1:I:2519:LEU:HD22	2:J:2785:GLU:HA	1.92	0.48
1:A:78:VAL:CG1	1:A:90:ILE:HD11	2.41	0.48
1:A:110:ILE:CG1	1:A:114:TYR:HB3	2.43	0.48
1:A:177:LYS:HB2	1:A:177:LYS:NZ	2.28	0.48
1:E:1380:LEU:CB	2:F:1646:ALA:HA	2.42	0.48
1:G:1727:LEU:HD13	1:G:1727:LEU:C	2.33	0.48
1:G:1847:PHE:CZ	1:G:1855:GLN:HG2	2.48	0.48
2:H:2017:VAL:O	2:H:2021:VAL:HG23	2.14	0.48
2:H:2258:LEU:HD23	2:H:2259:THR:O	2.14	0.48
1:I:2321:VAL:CG1	1:I:2349:ILE:CG1	2.91	0.48
2:J:2828:TYR:CE2	2:J:2830:THR:HG23	2.48	0.48
1:A:238:LEU:HD12	1:A:238:LEU:HA	1.80	0.48
2:B:343:ARG:HD3	2:B:350:PRO:HD3	1.95	0.48
2:B:412:VAL:O	2:B:416:VAL:HG23	2.13	0.48
1:C:606:ARG:HG2	1:C:640:CYS:SG	2.53	0.48
1:C:609:ILE:HG23	1:C:609:ILE:O	2.13	0.48
1:C:809:LEU:CB	2:D:1074:GLU:O	2.61	0.48
1:E:1200:ILE:HB	1:E:1203:VAL:CG2	2.43	0.48
2:F:1498:ARG:HG2	2:F:1499:ALA:N	2.27	0.48
2:F:1503:LYS:N	2:F:1503:LYS:HD2	2.28	0.48
2:F:1540:LEU:H	2:F:1540:LEU:CD2	2.26	0.48
2:F:1662:TYR:CE2	1:G:1928:GLU:CB	2.95	0.48
2:F:1665:LEU:CD1	1:G:1927:ALA:O	2.59	0.48
1:G:1801:VAL:HG23	1:G:1801:VAL:O	2.13	0.48
1:K:2883:TYR:HD1	1:K:2884:ASN:H	1.60	0.48
1:K:2892:VAL:HG13	1:K:2920:ILE:HB	1.89	0.48
1:K:2993:GLU:O	1:K:2997:GLN:HB2	2.14	0.48
1:K:3086:ALA:CB	1:K:3090:LEU:CB	2.91	0.48
1:A:40:ASP:CG	1:A:62:GLN:HG2	2.34	0.48
1:A:60:TRP:CD1	1:A:61:VAL:HG13	2.48	0.48
1:C:802:ALA:CB	1:C:806:LEU:CB	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1030:LEU:O	2:D:1031:SER:HB2	2.13	0.48
1:G:1785:ARG:O	1:G:1808:LEU:HD12	2.14	0.48
1:G:1888:PHE:CB	1:G:1891:GLU:HB2	2.35	0.48
2:H:2162:LEU:HD23	2:H:2163:ILE:C	2.34	0.48
2:H:2206:GLN:O	2:H:2210:ILE:HG13	2.13	0.48
2:H:2229:LYS:HB3	2:H:2233:TYR:CE1	2.48	0.48
2:H:2237:ARG:HG3	1:I:2498:ALA:HB1	1.96	0.48
1:K:2973:VAL:HG23	1:K:2974:LEU:N	2.28	0.48
1:K:3053:PHE:HB3	1:K:3057:LYS:HZ1	1.75	0.48
2:B:414:LYS:O	2:B:417:VAL:HG22	2.13	0.48
2:B:532:ILE:CD1	2:B:536:ILE:CG1	2.92	0.48
2:D:996:LEU:O	2:D:1000:ARG:HD2	2.13	0.48
2:D:1018:PHE:O	2:D:1019:SER:HB2	2.14	0.48
1:E:1179:VAL:HG13	1:E:1179:VAL:O	2.14	0.48
1:I:2442:ALA:CB	1:I:2447:LEU:HD21	2.43	0.48
1:A:231:ALA:CB	1:A:235:LEU:HB2	2.44	0.48
2:B:527:ARG:HB2	1:C:788:ASP:CB	2.43	0.48
2:B:540:GLN:O	2:J:2827:ILE:HG21	2.14	0.48
1:C:799:LEU:HD21	1:C:810:ARG:CD	2.36	0.48
2:D:915:ILE:CA	2:D:919:GLN:HG3	2.43	0.48
1:E:1201:PRO:HB2	1:E:1202:TRP:CE3	2.49	0.48
1:E:1234:LEU:HD11	1:E:1310:VAL:HG12	1.94	0.48
2:F:1582:LEU:HD12	2:F:1582:LEU:C	2.34	0.48
2:H:2241:ALA:O	2:H:2245:ILE:HG23	2.14	0.48
2:J:2599:VAL:CG2	2:J:2622:GLU:HA	2.39	0.48
1:K:3029:THR:CG2	1:K:3030:PHE:N	2.77	0.48
1:K:3086:ALA:HB3	1:K:3090:LEU:CB	2.43	0.48
1:A:103:LEU:CB	1:A:104:PRO:HD3	2.42	0.48
1:A:191:GLN:HA	1:A:194:GLU:HG3	1.96	0.48
2:B:332:GLN:HA	2:B:390:PRO:HB2	1.93	0.48
1:C:806:LEU:CG	2:D:1072:GLU:HA	2.44	0.48
1:E:1181:PHE:CE2	1:E:1249:PHE:HE2	2.28	0.48
1:E:1289:SER:HA	1:E:1312:LEU:CD1	2.44	0.48
1:E:1297:THR:HG23	1:E:1298:GLU:N	2.29	0.48
2:F:1454:VAL:HG22	2:F:1455:PHE:N	2.29	0.48
2:F:1493:ILE:HG21	2:F:1540:LEU:CD1	2.44	0.48
2:F:1658:LYS:HB3	2:F:1662:TYR:CE1	2.49	0.48
2:F:1693:VAL:O	2:F:1693:VAL:HG23	2.14	0.48
2:H:1990:LEU:HD23	2:H:1990:LEU:C	2.34	0.48
2:H:2178:TYR:CE2	2:H:2182:VAL:HG21	2.48	0.48
2:J:2575:MET:HG3	2:J:2576:GLY:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2689:LEU:CB	2:J:2690:PRO:HD3	2.33	0.48
1:K:2893:ILE:CG2	1:K:2917:GLN:HG2	2.42	0.48
1:K:3045:GLN:O	1:K:3049:GLU:HG3	2.14	0.48
2:B:330:VAL:HG13	2:B:330:VAL:O	2.14	0.47
2:B:336:LEU:HD23	2:B:341:HIS:CE1	2.48	0.47
1:C:573:ALA:O	1:C:576:VAL:HG22	2.13	0.47
1:C:813:GLU:HG3	1:C:814:ALA:N	2.28	0.47
2:D:914:ARG:HD3	2:D:919:GLN:HB2	1.95	0.47
1:G:1750:VAL:CB	1:G:1820:PHE:CZ	2.85	0.47
2:H:2230:ASN:CG	2:H:2231:PRO:HD2	2.34	0.47
1:I:2403:LEU:HD23	1:I:2403:LEU:C	2.34	0.47
1:I:2435:SER:CB	1:I:2452:VAL:CG1	2.92	0.47
1:I:2512:LEU:HD11	1:I:2520:ILE:HG12	1.95	0.47
2:J:2604:ARG:CD	2:J:2639:ILE:CG1	2.91	0.47
1:K:2900:VAL:HG11	1:K:2962:PHE:HD2	1.79	0.47
1:A:91:THR:HG22	1:A:171:THR:O	2.14	0.47
1:A:228:LEU:CG	1:A:235:LEU:HD13	2.43	0.47
2:B:340:LEU:HD13	2:B:340:LEU:C	2.33	0.47
1:C:632:VAL:HB	1:C:633:GLN:HE21	1.79	0.47
2:D:893:ILE:CG2	2:D:922:ILE:CG1	2.90	0.47
2:D:954:ARG:HH11	2:D:1021:ILE:HB	1.79	0.47
1:E:1233:THR:CG2	1:E:1314:HIS:HB2	2.44	0.47
1:E:1381:ARG:NH1	1:E:1382:LYS:HA	2.28	0.47
2:F:1635:GLN:O	2:F:1639:ILE:HD12	2.14	0.47
1:G:1859:VAL:HG13	1:G:1860:SER:N	2.29	0.47
2:H:2026:PHE:CD1	2:H:2027:THR:N	2.82	0.47
2:H:2253:GLN:CD	1:I:2538:SER:HA	2.34	0.47
1:I:2368:ASP:HB2	1:I:2419:ASP:OD1	2.14	0.47
1:I:2380:PHE:CE1	1:I:2449:LEU:CB	2.96	0.47
1:I:2438:LEU:HD23	1:I:2438:LEU:C	2.35	0.47
2:J:2646:ILE:HD12	2:J:2648:SER:OG	2.14	0.47
2:J:2658:VAL:O	2:J:2658:VAL:HG13	2.13	0.47
2:J:2708:GLN:O	2:J:2712:GLN:HB2	2.14	0.47
1:K:2965:ILE:HB	1:K:2969:TYR:CB	2.45	0.47
1:K:2975:PRO:HA	1:K:2978:THR:HG22	1.96	0.47
1:A:151:SER:CB	1:A:168:VAL:HG12	2.44	0.47
1:A:228:LEU:HD12	1:A:235:LEU:HD13	1.95	0.47
1:A:240:LYS:O	1:A:240:LYS:HD3	2.13	0.47
2:B:321:ALA:HB2	2:B:352:ILE:CD1	2.44	0.47
2:B:417:VAL:HG23	2:B:418:ALA:N	2.30	0.47
2:B:523:LEU:CB	1:C:788:ASP:O	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:657:GLN:HA	1:C:657:GLN:NE2	2.25	0.47
2:D:1087:LYS:O	2:D:1091:TYR:CB	2.62	0.47
1:I:2383:VAL:HG21	1:I:2386:GLN:CG	2.44	0.47
1:I:2460:GLY:O	1:I:2463:PHE:HB3	2.14	0.47
2:J:2691:SER:HA	2:J:2694:ASN:ND2	2.29	0.47
1:C:662:THR:CG2	1:C:743:HIS:CD2	2.97	0.47
1:E:1377:LEU:HD23	1:E:1377:LEU:N	2.29	0.47
2:F:1582:LEU:HD21	2:F:1596:VAL:CB	2.44	0.47
2:F:1582:LEU:CD1	2:F:1593:LEU:HD22	2.17	0.47
1:G:1878:LEU:CD2	1:G:1881:VAL:CG2	2.92	0.47
2:H:2075:ILE:HD12	2:H:2119:PRO:HA	1.96	0.47
2:J:2603:HIS:HB3	2:J:2636:ILE:CG2	2.44	0.47
2:J:2627:ARG:HG3	2:J:2632:GLN:HB3	1.96	0.47
2:J:2698:LYS:O	2:J:2701:VAL:HG22	2.14	0.47
1:K:2953:PRO:HB3	1:K:2969:TYR:OH	2.14	0.47
1:K:2965:ILE:CG2	1:K:2969:TYR:CB	2.92	0.47
2:B:405:LEU:HD23	2:B:405:LEU:C	2.34	0.47
1:C:681:ILE:CD1	1:C:685:TYR:CB	2.92	0.47
1:E:1284:GLN:HG2	1:E:1284:GLN:O	2.14	0.47
1:G:1860:SER:HA	1:G:1883:LEU:CD1	2.41	0.47
1:G:1962:TYR:CE1	1:G:1966:ARG:CZ	2.96	0.47
2:H:2242:ALA:O	2:H:2245:ILE:HG12	2.14	0.47
1:K:2945:ILE:CD1	1:K:3028:LEU:CD2	2.92	0.47
1:K:2947:LEU:HD11	1:K:2982:LEU:HD12	1.95	0.47
1:K:2954:VAL:CG2	1:K:2957:GLN:CB	2.93	0.47
1:A:60:TRP:CD1	1:A:61:VAL:CG1	2.96	0.47
1:A:100:ALA:C	1:A:103:LEU:HD23	2.34	0.47
2:B:385:ASN:HD21	2:B:388:GLU:CB	2.24	0.47
1:C:807:ILE:HG23	1:C:808:GLU:N	2.28	0.47
2:D:995:GLN:OE1	2:D:995:GLN:HA	2.14	0.47
1:E:1177:ARG:HG3	1:E:1211:CYS:SG	2.55	0.47
1:G:1847:PHE:CE2	1:G:1851:GLU:CG	2.98	0.47
1:G:1904:GLN:HE21	1:G:1904:GLN:HB3	1.50	0.47
2:H:2028:VAL:HG23	2:H:2052:GLY:N	2.30	0.47
1:I:2383:VAL:HG21	1:I:2386:GLN:CD	2.35	0.47
1:K:2959:PRO:O	1:K:2962:PHE:HB3	2.14	0.47
1:A:199:VAL:HG23	1:A:200:VAL:N	2.29	0.47
2:B:385:ASN:N	2:B:385:ASN:HD22	2.12	0.47
2:B:388:GLU:HB3	2:B:448:SER:HB3	1.96	0.47
2:B:400:TYR:CE1	2:B:404:VAL:HG11	2.49	0.47
1:C:743:HIS:HB2	1:C:750:PHE:HE1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1061:LYS:O	2:D:1065:ARG:HG3	2.13	0.47
2:D:1069:VAL:O	2:D:1072:GLU:HG2	2.15	0.47
1:E:1170:TYR:C	1:E:1171:ASN:HD22	2.18	0.47
1:E:1292:VAL:HG13	1:E:1293:SER:N	2.29	0.47
1:E:1399:ILE:HG22	1:E:1401:TYR:H	1.80	0.47
2:F:1477:ILE:CG1	2:F:1532:PRO:HD3	2.45	0.47
2:F:1504:ILE:HG21	2:F:1551:VAL:CG1	2.30	0.47
2:F:1522:VAL:HG12	2:F:1596:VAL:HG13	1.96	0.47
2:F:1524:SER:C	2:F:1525:ARG:HG3	2.35	0.47
2:F:1586:ALA:HA	2:F:1591:LEU:HD21	1.97	0.47
1:G:1782:CYS:O	1:G:1810:ARG:HD3	2.14	0.47
1:G:1809:PHE:CE1	1:G:1832:LEU:HD11	2.50	0.47
1:G:1874:PHE:HB3	1:G:1876:LEU:HD12	1.89	0.47
2:H:2047:THR:HG23	2:H:2047:THR:O	2.15	0.47
2:H:2230:ASN:HD22	2:H:2232:GLY:H	1.61	0.47
2:H:2233:TYR:O	1:I:2502:SER:HB3	2.15	0.47
1:I:2380:PHE:HE1	1:I:2449:LEU:CB	2.20	0.47
1:K:2867:PHE:CZ	1:K:2871:LEU:HD22	2.50	0.47
1:K:2945:ILE:HD11	1:K:3028:LEU:HD21	1.97	0.47
2:B:308:VAL:HG13	2:B:309:ARG:N	2.29	0.47
1:C:617:GLN:OE1	1:C:617:GLN:HA	2.14	0.47
1:C:690:LEU:HD23	1:C:690:LEU:C	2.35	0.47
1:E:1261:LEU:HB3	1:E:1262:PRO:CD	2.33	0.47
2:F:1499:ALA:HB2	2:F:1525:ARG:CG	2.44	0.47
2:F:1589:PHE:HD1	2:F:1589:PHE:O	1.98	0.47
2:F:1658:LYS:HD3	2:F:1662:TYR:CE1	2.50	0.47
1:G:1807:ILE:HG23	1:G:1807:ILE:O	2.15	0.47
1:G:1951:LEU:HB2	2:H:2217:ALA:HA	1.96	0.47
2:H:2160:PHE:O	2:H:2161:SER:HB2	2.15	0.47
2:H:2249:ILE:HD13	2:H:2249:ILE:C	2.34	0.47
1:I:2322:ILE:CG2	1:I:2330:GLN:CB	2.92	0.47
1:I:2378:ILE:CG2	1:I:2449:LEU:HD13	2.43	0.47
1:A:253:ARG:HG3	1:K:3111:ASN:ND2	2.30	0.47
2:B:543:ILE:HD12	2:H:2256:ILE:HG22	1.94	0.47
2:D:949:LEU:CD2	2:D:980:VAL:HG13	2.44	0.47
2:D:1022:LEU:CD2	2:D:1025:VAL:CG1	2.90	0.47
2:D:1094:LEU:CB	1:E:1359:ASP:O	2.63	0.47
2:F:1574:VAL:HG13	2:F:1575:SER:N	2.30	0.47
2:F:1691:ASN:HD21	2:H:2261:ASP:HB3	1.78	0.47
2:H:2096:ARG:CD	2:H:2163:ILE:HD11	2.44	0.47
1:K:2892:VAL:HG13	1:K:2892:VAL:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2965:ILE:CB	1:K:2969:TYR:HB2	2.45	0.47
1:A:151:SER:CB	1:A:168:VAL:CG1	2.93	0.47
1:A:235:LEU:CA	2:B:504:ALA:CB	2.78	0.47
2:B:515:SER:C	2:B:517:ASN:H	2.17	0.47
2:B:523:LEU:HB3	1:C:788:ASP:OD1	2.15	0.47
2:D:884:PHE:CE2	2:D:914:ARG:NH2	2.83	0.47
1:E:1201:PRO:O	1:E:1202:TRP:HB2	2.14	0.47
1:E:1213:SER:HB3	1:E:1239:ARG:HH11	1.78	0.47
2:F:1578:ILE:O	2:F:1582:LEU:HG	2.15	0.47
2:F:1603:PHE:O	2:F:1607:TYR:CD1	2.68	0.47
2:F:1665:LEU:CG	1:G:1927:ALA:O	2.63	0.47
1:G:1750:VAL:HG21	1:G:1820:PHE:CZ	2.49	0.47
2:H:2035:ILE:HG13	2:H:2103:PRO:CG	2.37	0.47
1:I:2514:THR:HG23	1:I:2515:ALA:N	2.29	0.47
2:J:2645:LYS:HD3	2:J:2645:LYS:N	2.22	0.47
1:K:2922:PHE:CE2	1:K:2958:LEU:CB	2.99	0.47
1:A:217:ASP:O	1:K:3093:LEU:HD13	2.15	0.46
2:B:406:PRO:O	2:B:409:VAL:HG12	2.15	0.46
2:D:940:LYS:HB2	2:D:989:ALA:O	2.15	0.46
2:D:1013:GLU:O	2:D:1016:LYS:HD3	2.15	0.46
1:E:1253:GLY:O	1:E:1256:TYR:CD1	2.68	0.46
1:E:1380:LEU:CD1	2:F:1645:GLU:CB	2.93	0.46
2:F:1555:LEU:CD2	2:F:1559:VAL:HG21	2.45	0.46
2:F:1662:TYR:O	2:F:1665:LEU:CD2	2.63	0.46
1:G:1803:ILE:HD11	1:G:1883:LEU:CB	2.44	0.46
1:G:1939:ASN:HD22	1:G:1939:ASN:HA	1.45	0.46
2:H:2036:PHE:HZ	2:H:2044:GLN:NE2	2.13	0.46
2:H:2037:PHE:CD2	2:H:2043:VAL:CG2	2.98	0.46
2:H:2118:LEU:O	2:H:2122:VAL:HG12	2.15	0.46
1:I:2522:LEU:CB	2:J:2787:GLU:O	2.63	0.46
1:A:224:ILE:HG22	1:A:228:LEU:HD13	1.97	0.46
1:C:690:LEU:O	1:C:694:THR:HG22	2.15	0.46
2:D:947:ILE:CD1	2:D:1027:ILE:CG2	2.94	0.46
2:D:1095:ARG:CB	1:E:1356:ALA:HB1	2.44	0.46
1:E:1245:LEU:CA	1:E:1248:ILE:CD1	2.89	0.46
1:E:1377:LEU:O	2:F:1646:ALA:HB2	2.15	0.46
1:E:1380:LEU:HD22	1:E:1380:LEU:HA	1.78	0.46
1:G:1980:LEU:HD23	1:G:1981:LEU:N	2.30	0.46
2:H:2079:THR:HG21	2:H:2127:LYS:HA	1.96	0.46
1:I:2357:PRO:HG3	1:I:2379:LEU:CD1	2.45	0.46
2:J:2807:LEU:CB	1:K:3072:ASP:O	2.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:195:ARG:O	1:A:199:VAL:HG13	2.15	0.46
1:A:217:ASP:CB	1:K:3097:GLU:HB2	2.46	0.46
2:B:389:LEU:N	2:B:390:PRO:HD2	2.31	0.46
2:D:894:PHE:CZ	2:D:914:ARG:HG2	2.50	0.46
2:D:896:ASN:HD22	2:D:896:ASN:N	2.14	0.46
2:D:975:VAL:CG1	2:D:979:ILE:HD13	2.45	0.46
2:D:1062:GLN:O	2:D:1066:GLN:HG2	2.15	0.46
2:D:1094:LEU:CD2	1:E:1363:ALA:CB	2.93	0.46
2:F:1418:ASN:O	2:F:1419:LEU:HD22	2.14	0.46
2:F:1495:TYR:OH	2:F:1540:LEU:HA	2.15	0.46
1:I:2293:ILE:HG23	1:I:2294:GLY:N	2.29	0.46
1:I:2321:VAL:HG12	1:I:2351:PHE:HE1	1.81	0.46
1:K:3010:THR:HG23	1:K:3011:GLU:N	2.29	0.46
1:A:199:VAL:O	1:A:202:LYS:HG2	2.15	0.46
1:A:228:LEU:HD23	1:A:236:ILE:CA	2.40	0.46
2:B:364:SER:HB2	2:B:410:ASN:ND2	2.30	0.46
2:F:1538:LEU:HB2	2:F:1589:PHE:CE1	2.51	0.46
1:G:1746:GLY:O	1:G:1782:CYS:HB3	2.16	0.46
1:G:1752:PHE:CD2	1:G:1778:ILE:CD1	2.98	0.46
1:G:1951:LEU:CB	2:H:2216:GLU:O	2.63	0.46
2:H:2236:LEU:CB	1:I:2501:ASP:O	2.62	0.46
2:J:2615:GLN:HG2	2:J:2617:ASP:HB2	1.97	0.46
1:A:231:ALA:HB3	1:A:235:LEU:HB2	1.97	0.46
2:B:495:GLN:OE1	2:B:495:GLN:HA	2.15	0.46
2:D:945:VAL:HG23	2:D:945:VAL:O	2.14	0.46
2:D:979:ILE:HD12	2:D:979:ILE:N	2.31	0.46
2:D:1091:TYR:CE2	1:E:1357:GLU:CA	2.98	0.46
2:F:1665:LEU:CD2	1:G:1931:SER:N	2.78	0.46
2:H:2227:LEU:HB3	2:H:2234:ILE:CG2	2.45	0.46
1:I:2349:ILE:HG13	1:I:2351:PHE:CE1	2.51	0.46
1:I:2439:THR:HG23	1:I:2440:GLU:N	2.30	0.46
2:J:2733:LEU:HD13	2:J:2734:ILE:O	2.16	0.46
1:A:60:TRP:HD1	1:A:61:VAL:HG13	1.81	0.46
2:B:343:ARG:HD2	2:B:350:PRO:HG3	1.98	0.46
2:B:426:ILE:HG23	2:B:427:THR:HG23	1.98	0.46
1:E:1389:ILE:HD13	1:E:1392:GLN:CD	2.35	0.46
2:F:1520:LEU:HG	2:F:1555:LEU:HD12	1.98	0.46
1:G:1750:VAL:CG2	1:G:1820:PHE:CZ	2.97	0.46
2:H:2240:ARG:NH2	2:H:2241:ALA:HB2	2.31	0.46
2:J:2804:TYR:O	1:K:3073:SER:HB3	2.16	0.46
2:J:2811:ARG:HD2	1:K:3068:SER:CB	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2965:ILE:CG2	1:K:2969:TYR:HA	2.44	0.46
1:A:238:LEU:HD13	2:B:507:ALA:HB1	1.96	0.46
2:B:336:LEU:N	2:B:336:LEU:HD12	2.31	0.46
1:E:1288:VAL:HG13	1:E:1289:SER:N	2.30	0.46
1:E:1380:LEU:HD22	1:E:1383:LEU:CG	2.45	0.46
1:G:1860:SER:HB2	1:G:1883:LEU:CD1	2.44	0.46
2:H:2169:ILE:O	2:H:2169:ILE:HG12	2.14	0.46
1:K:2883:TYR:CD1	1:K:2884:ASN:N	2.83	0.46
1:K:2940:LEU:HD22	1:K:2940:LEU:N	2.31	0.46
1:K:2945:ILE:HG22	1:K:2946:THR:N	2.30	0.46
2:B:429:ARG:HG2	2:B:430:ALA:N	2.31	0.46
2:F:1534:MET:HE3	2:F:1542:TYR:CZ	2.51	0.46
2:F:1566:GLN:HA	2:F:1566:GLN:NE2	2.29	0.46
1:G:1750:VAL:HG12	1:G:1751:ILE:N	2.29	0.46
1:G:1941:LEU:HA	1:G:1948:LEU:HD22	1.90	0.46
2:H:2162:LEU:HD22	2:H:2164:LEU:HD23	1.97	0.46
2:H:2209:LYS:HA	2:H:2212:GLN:HE21	1.80	0.46
1:I:2341:LEU:N	1:I:2341:LEU:CD1	2.79	0.46
1:I:2397:ASP:OD1	1:I:2400:GLU:HG2	2.15	0.46
1:I:2455:THR:HG22	1:I:2456:HIS:N	2.30	0.46
1:I:2512:LEU:HD11	1:I:2520:ILE:CB	2.46	0.46
2:J:2807:LEU:HD22	2:J:2807:LEU:HA	1.67	0.46
1:K:2943:VAL:CG1	1:K:3028:LEU:CD2	2.93	0.46
2:B:450:ILE:O	2:B:450:ILE:HG23	2.15	0.46
1:C:609:ILE:CG2	1:C:617:GLN:HB2	2.46	0.46
2:D:997:ILE:O	2:D:1000:ARG:HG2	2.16	0.46
2:D:1067:LYS:HD3	2:D:1067:LYS:HA	1.77	0.46
1:E:1222:THR:HG21	1:E:1270:LYS:HA	1.98	0.46
1:E:1276:PHE:HE2	1:E:1288:VAL:CG2	2.25	0.46
1:E:1342:VAL:HG23	1:E:1343:GLU:N	2.31	0.46
2:F:1436:ALA:O	2:F:1440:LEU:HG	2.15	0.46
1:G:1954:LEU:HD23	1:G:1954:LEU:HA	1.79	0.46
2:H:2088:ASN:O	2:H:2089:ILE:HD13	2.16	0.46
1:I:2312:TYR:CZ	1:I:2348:PRO:HG2	2.51	0.46
1:K:2913:ILE:HG23	1:K:2913:ILE:O	2.16	0.46
1:A:88:VAL:HG22	1:A:90:ILE:HG23	1.98	0.46
2:B:292:GLY:O	2:B:295:LEU:HG	2.16	0.46
2:B:345:PRO:O	2:B:346:TRP:HB2	2.16	0.46
1:C:597:ALA:HB1	1:C:627:PHE:HE1	1.75	0.46
1:C:662:THR:O	1:C:742:THR:HG22	2.16	0.46
2:D:894:PHE:CE2	2:D:919:GLN:CD	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2593:ARG:HD3	2:J:2593:ARG:C	2.36	0.46
2:J:2607:PHE:CE1	2:J:2620:LEU:CD1	2.92	0.46
1:K:2859:LYS:HD2	1:K:2859:LYS:O	2.16	0.46
1:K:2892:VAL:CG1	1:K:2962:PHE:CE2	2.99	0.46
1:K:2981:ILE:CD1	1:K:3009:LEU:CD2	2.94	0.46
1:A:239:ARG:HB2	2:B:500:ALA:HB1	1.98	0.45
2:B:335:ILE:O	2:B:335:ILE:HG12	2.16	0.45
2:B:523:LEU:HD12	2:B:523:LEU:HA	1.86	0.45
1:C:681:ILE:CG1	1:C:685:TYR:CB	2.94	0.45
2:F:1530:GLU:O	2:F:1534:MET:HG2	2.16	0.45
1:G:1750:VAL:CG2	1:G:1816:LEU:CD1	2.94	0.45
1:G:1951:LEU:CB	2:H:2216:GLU:C	2.84	0.45
1:G:1964:LEU:HD23	1:G:1964:LEU:O	2.16	0.45
2:H:2035:ILE:CG2	2:H:2064:ILE:CG1	2.94	0.45
2:H:2091:LEU:CD1	2:H:2093:VAL:CG2	2.94	0.45
2:H:2150:ARG:CB	2:H:2167:VAL:CG2	2.94	0.45
1:I:2515:ALA:CB	1:I:2519:LEU:CB	2.93	0.45
1:C:670:VAL:HG13	1:C:673:GLN:H	1.80	0.45
1:C:806:LEU:CA	2:D:1075:ALA:CB	2.75	0.45
2:D:895:PHE:HE1	2:D:922:ILE:HG23	1.82	0.45
2:D:923:ILE:HD13	2:D:923:ILE:O	2.16	0.45
1:E:1203:VAL:HG23	1:E:1204:GLN:N	2.31	0.45
2:H:2045:GLN:O	2:H:2103:PRO:HB2	2.15	0.45
1:C:628:LEU:N	1:C:628:LEU:CD1	2.79	0.45
1:E:1179:VAL:HG12	1:E:1207:ILE:HB	1.98	0.45
1:E:1399:ILE:HG22	1:E:1401:TYR:N	2.31	0.45
1:G:1831:VAL:CG1	1:G:1835:ILE:HD12	2.46	0.45
2:H:2040:ILE:CD1	2:H:2060:PHE:CZ	2.99	0.45
1:I:2310:ALA:O	1:I:2341:LEU:HD13	2.17	0.45
1:I:2329:VAL:HG23	1:I:2329:VAL:O	2.16	0.45
2:J:2606:ILE:HG13	2:J:2674:PRO:HG3	1.95	0.45
2:J:2646:ILE:HG21	2:J:2693:VAL:CG2	2.43	0.45
2:J:2785:GLU:O	2:J:2788:ALA:HB3	2.16	0.45
2:J:2811:ARG:CD	1:K:3068:SER:CB	2.93	0.45
1:A:238:LEU:CB	2:B:504:ALA:HA	2.45	0.45
1:C:725:LEU:HD13	1:C:736:LEU:CD2	2.46	0.45
1:C:827:ASN:HD21	2:D:1110:SER:HA	1.80	0.45
1:G:1839:ILE:HD13	1:G:1839:ILE:C	2.35	0.45
2:H:2057:ILE:CG2	2:H:2058:PRO:HD2	2.46	0.45
2:H:2089:ILE:CD1	2:H:2172:LEU:CG	2.92	0.45
2:H:2096:ARG:CZ	2:H:2163:ILE:HD11	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2330:GLN:NE2	1:I:2331:ASP:H	2.15	0.45
1:I:2383:VAL:CG2	1:I:2386:GLN:CB	2.92	0.45
1:I:2457:LEU:C	1:I:2458:THR:HG23	2.36	0.45
2:J:2749:TYR:O	2:J:2753:VAL:HG23	2.16	0.45
2:J:2778:ARG:O	2:J:2782:VAL:HG13	2.16	0.45
2:J:2806:LYS:HD3	2:J:2806:LYS:C	2.37	0.45
1:K:2943:VAL:HG11	1:K:3028:LEU:CD2	2.46	0.45
1:A:231:ALA:CB	1:A:235:LEU:CG	2.93	0.45
1:C:608:VAL:O	1:C:608:VAL:HG13	2.14	0.45
1:C:620:VAL:HG13	1:C:620:VAL:O	2.16	0.45
1:C:664:ARG:O	1:C:665:ILE:HD13	2.17	0.45
2:D:926:ILE:O	2:D:926:ILE:HG22	2.15	0.45
2:D:933:ILE:CD1	2:D:977:PRO:HA	2.46	0.45
2:F:1499:ALA:HB2	2:F:1525:ARG:HD2	1.95	0.45
1:G:1839:ILE:CG2	1:G:1840:LEU:N	2.80	0.45
2:H:2035:ILE:HD11	2:H:2043:VAL:CG1	2.47	0.45
2:J:2597:PHE:C	2:J:2597:PHE:CD1	2.90	0.45
2:J:2724:LEU:CD2	2:J:2735:LEU:CD1	2.94	0.45
1:K:2892:VAL:HG11	1:K:2962:PHE:CE2	2.52	0.45
1:A:119:LEU:CB	1:A:120:PRO:HD3	2.31	0.45
1:A:160:THR:HG23	1:A:161:PHE:N	2.32	0.45
2:D:893:ILE:HD12	2:D:905:THR:O	2.17	0.45
2:D:1015:ALA:CB	2:D:1020:LEU:CD1	2.90	0.45
1:E:1208:ILE:O	1:E:1208:ILE:HG13	2.16	0.45
1:E:1245:LEU:HB3	1:E:1246:PRO:CD	2.42	0.45
2:F:1579:ARG:C	2:F:1582:LEU:HG	2.37	0.45
1:G:1837:THR:O	1:G:1841:LYS:HG3	2.17	0.45
1:G:1843:VAL:HG11	1:G:1863:VAL:CG2	2.44	0.45
2:H:2246:SER:O	2:H:2249:ILE:HG22	2.16	0.45
1:I:2322:ILE:CG2	1:I:2330:GLN:HB2	2.46	0.45
1:A:35:ARG:CD	1:A:51:GLY:HA2	2.47	0.45
2:B:385:ASN:HD22	2:B:385:ASN:H	1.65	0.45
2:B:532:ILE:O	2:B:536:ILE:HG12	2.17	0.45
1:C:609:ILE:HG23	1:C:617:GLN:HB2	1.97	0.45
1:C:661:ILE:HG21	1:C:698:LEU:CD2	2.37	0.45
1:G:1823:ILE:HD11	1:G:1827:TYR:CD1	2.51	0.45
1:G:1962:TYR:HE1	1:G:1966:ARG:NH1	2.14	0.45
2:H:2129:VAL:CG1	2:H:2148:LEU:HD23	2.43	0.45
2:B:541:ASN:HA	2:J:2827:ILE:CG2	2.47	0.45
1:C:830:TYR:C	1:C:830:TYR:CD1	2.90	0.45
2:F:1466:PHE:HE2	2:F:1468:ARG:HD2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1493:ILE:HD13	2:F:1540:LEU:HD11	1.98	0.45
2:F:1555:LEU:HD23	2:F:1559:VAL:CG2	2.46	0.45
1:G:1860:SER:CB	1:G:1883:LEU:CD1	2.95	0.45
1:G:1951:LEU:CB	2:H:2216:GLU:HG2	2.45	0.45
2:H:2093:VAL:HG12	2:H:2094:LEU:N	2.31	0.45
1:I:2512:LEU:HD21	1:I:2520:ILE:CG1	2.42	0.45
2:J:2827:ILE:O	2:J:2827:ILE:HG12	2.16	0.45
2:J:2850:LEU:HG	2:J:2851:ILE:N	2.31	0.45
1:K:2904:VAL:O	1:K:2904:VAL:HG23	2.15	0.45
1:K:3026:THR:HG22	1:K:3027:HIS:N	2.32	0.45
1:A:110:ILE:CG1	1:A:114:TYR:CB	2.95	0.45
2:B:293:THR:HA	2:B:296:LYS:HG2	1.99	0.45
2:B:347:PHE:N	2:B:347:PHE:CD1	2.85	0.45
2:B:512:GLU:OE1	2:B:512:GLU:HA	2.17	0.45
2:B:526:ILE:HD12	2:B:526:ILE:N	2.32	0.45
2:B:532:ILE:CG2	2:B:533:SER:N	2.80	0.45
2:D:869:LEU:HD23	2:D:869:LEU:C	2.37	0.45
2:D:947:ILE:CG1	2:D:1030:LEU:CD2	2.94	0.45
2:D:1123:LEU:HD22	2:D:1123:LEU:N	2.32	0.45
2:F:1468:ARG:HD2	2:F:1468:ARG:HA	1.70	0.45
2:F:1641:GLN:HE21	2:F:1642:ALA:HA	1.82	0.45
2:F:1665:LEU:CD2	1:G:1928:GLU:HA	2.44	0.45
2:H:2036:PHE:HE2	2:H:2038:ASN:ND2	2.15	0.45
2:H:2170:THR:HG22	2:H:2171:GLU:N	2.31	0.45
1:I:2522:LEU:CD2	2:J:2791:ALA:N	2.80	0.45
2:J:2588:VAL:HG23	2:J:2589:ALA:N	2.32	0.45
1:K:2882:LEU:HD23	1:K:2882:LEU:C	2.36	0.45
1:A:100:ALA:CA	1:A:103:LEU:CD2	2.95	0.45
2:B:351:ILE:HG21	2:B:398:LEU:HD21	1.99	0.45
2:D:891:ARG:HD2	2:D:957:ALA:HB1	1.99	0.45
2:D:1036:TYR:O	2:D:1040:VAL:HG23	2.17	0.45
2:D:1094:LEU:HD13	2:D:1097:ILE:CG2	2.47	0.45
1:E:1361:LYS:HG3	1:E:1365:LEU:HD23	1.97	0.45
2:H:2237:ARG:HG3	1:I:2498:ALA:CB	2.47	0.45
1:I:2503:LYS:O	1:I:2507:LEU:HG	2.17	0.45
2:J:2704:PHE:CE2	2:J:2712:GLN:CB	2.96	0.45
1:K:2949:ILE:CG1	1:K:2951:PHE:CE2	2.99	0.45
1:K:2954:VAL:HG12	1:K:3019:ILE:CG1	2.47	0.45
1:K:2954:VAL:HG13	1:K:3019:ILE:HG12	1.98	0.45
1:A:73:PRO:CA	1:A:95:LEU:HD23	2.43	0.44
2:B:426:ILE:CG2	2:B:427:THR:N	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:992:ASN:CG	2:D:995:GLN:HG2	2.36	0.44
2:D:1114:ILE:CG2	2:D:1115:TYR:N	2.80	0.44
2:F:1417:GLN:NE2	2:F:1419:LEU:HD21	2.32	0.44
2:F:1437:LEU:O	2:F:1441:LEU:HD13	2.17	0.44
2:F:1547:LEU:HB3	2:F:1548:PRO:CD	2.37	0.44
2:F:1662:TYR:C	2:F:1665:LEU:HD23	2.37	0.44
1:G:1750:VAL:CG2	1:G:1816:LEU:CG	2.92	0.44
2:H:2028:VAL:CG2	2:H:2051:GLU:CA	2.94	0.44
2:H:2191:GLU:HG3	2:H:2192:ALA:N	2.31	0.44
1:I:2380:PHE:HZ	1:I:2438:LEU:CD2	2.29	0.44
2:J:2576:GLY:O	2:J:2580:LYS:HG2	2.17	0.44
2:J:2744:SER:HB3	2:J:2745:PHE:H	1.41	0.44
1:K:2982:LEU:HD21	1:K:2986:VAL:HG21	1.99	0.44
1:A:30:VAL:HG13	1:A:30:VAL:O	2.16	0.44
1:A:139:LEU:CG	1:A:173:LEU:HD23	2.47	0.44
1:A:228:LEU:HB3	1:A:236:ILE:HG12	1.98	0.44
2:B:318:GLY:O	2:B:355:ILE:HB	2.17	0.44
2:B:320:ARG:HD3	2:B:386:ALA:HB1	1.98	0.44
1:C:716:LEU:HD23	1:C:716:LEU:C	2.38	0.44
2:D:879:VAL:HG23	2:D:880:ARG:N	2.32	0.44
2:D:969:LEU:C	2:D:971:TYR:H	2.20	0.44
2:D:988:VAL:HG13	2:D:989:ALA:N	2.31	0.44
1:E:1232:ILE:CG1	1:E:1315:LEU:CD1	2.95	0.44
1:E:1296:LEU:CD2	1:E:1307:LEU:HD13	2.42	0.44
1:G:1941:LEU:HD12	1:G:1948:LEU:CG	2.46	0.44
1:G:1979:VAL:HG12	1:G:1981:LEU:HG	1.99	0.44
2:H:2086:MET:O	2:H:2174:PHE:CE2	2.70	0.44
2:H:2202:ALA:O	2:H:2206:GLN:HG3	2.17	0.44
1:K:3102:ILE:CG2	1:K:3103:ALA:N	2.80	0.44
1:A:80:THR:CG2	1:A:127:LEU:HD12	2.41	0.44
1:A:90:ILE:CD1	1:A:90:ILE:N	2.81	0.44
1:A:238:LEU:CB	2:B:503:GLU:O	2.60	0.44
2:B:428:GLN:HA	2:B:428:GLN:NE2	2.32	0.44
2:B:523:LEU:CD1	2:B:526:ILE:CD1	2.94	0.44
1:E:1220:VAL:HG12	1:E:1232:ILE:O	2.17	0.44
1:E:1260:VAL:CG1	1:E:1261:LEU:N	2.81	0.44
1:E:1350:LYS:O	1:E:1354:ILE:HG13	2.17	0.44
2:F:1499:ALA:CA	2:F:1525:ARG:CG	2.93	0.44
2:F:1538:LEU:CB	2:F:1542:TYR:HB3	2.42	0.44
2:F:1579:ARG:HA	2:F:1582:LEU:CG	2.47	0.44
2:F:1685:ILE:HD13	2:F:1685:ILE:N	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1951:LEU:HD23	1:G:1951:LEU:HA	1.61	0.44
2:H:2089:ILE:CD1	2:H:2172:LEU:CB	2.96	0.44
2:H:2129:VAL:CG1	2:H:2133:PHE:HE2	2.31	0.44
2:H:2137:GLN:O	2:H:2141:GLN:HB2	2.17	0.44
1:I:2406:ILE:HD12	1:I:2406:ILE:H	1.82	0.44
2:J:2690:PRO:C	2:J:2693:VAL:HG12	2.38	0.44
1:K:2892:VAL:CB	1:K:2922:PHE:CZ	3.00	0.44
1:K:2958:LEU:HD13	1:K:2961:ILE:HD13	1.97	0.44
1:A:155:THR:HG23	1:A:156:GLU:N	2.31	0.44
1:A:161:PHE:HB3	1:A:163:LEU:HD23	1.99	0.44
1:C:778:LYS:HD2	1:C:778:LYS:C	2.38	0.44
2:D:975:VAL:HG12	2:D:979:ILE:HD13	1.99	0.44
2:F:1663:ILE:CG2	2:F:1664:LYS:N	2.80	0.44
2:F:1669:ARG:HD2	1:G:1926:SER:HB2	1.99	0.44
2:H:2093:VAL:HG22	2:H:2167:VAL:HG12	1.99	0.44
1:I:2292:SER:HA	1:I:2295:LYS:HG2	1.98	0.44
1:I:2349:ILE:HD13	1:I:2391:PHE:CE2	2.53	0.44
1:I:2514:THR:CG2	1:I:2515:ALA:N	2.80	0.44
2:J:2657:MET:O	2:J:2745:PHE:CE1	2.71	0.44
2:J:2734:ILE:O	2:J:2734:ILE:HG23	2.18	0.44
2:J:2792:LYS:HG3	2:J:2793:MET:N	2.33	0.44
1:A:78:VAL:HG13	1:A:78:VAL:O	2.17	0.44
1:A:98:PRO:HG3	1:A:114:TYR:CE2	2.53	0.44
2:B:335:ILE:HD13	2:B:335:ILE:N	2.17	0.44
2:B:370:ASP:O	2:B:371:LEU:HB2	2.18	0.44
2:B:483:GLN:HA	2:B:486:VAL:HG12	1.99	0.44
1:C:629:ILE:HB	1:C:633:GLN:HE22	1.80	0.44
2:D:951:VAL:O	2:D:951:VAL:HG23	2.17	0.44
1:E:1277:ASP:O	1:E:1281:LEU:HG	2.18	0.44
1:E:1380:LEU:CB	2:F:1645:GLU:O	2.63	0.44
2:F:1464:ILE:CG2	2:F:1493:ILE:HB	2.47	0.44
2:F:1652:LEU:HD21	2:F:1666:ARG:NE	2.31	0.44
2:H:2162:LEU:CD2	2:H:2164:LEU:HD23	2.48	0.44
1:I:2339:HIS:CD2	1:I:2340:PHE:N	2.86	0.44
1:I:2404:PRO:HA	1:I:2407:THR:HG22	2.00	0.44
1:I:2474:GLN:O	1:I:2478:GLU:HG2	2.17	0.44
1:I:2534:GLN:HG3	1:I:2535:LEU:N	2.32	0.44
1:K:2891:ALA:HB3	1:K:2905:VAL:HG22	1.93	0.44
1:K:3071:GLY:HA2	1:K:3074:LYS:CE	2.46	0.44
1:C:813:GLU:CG	1:C:814:ALA:N	2.81	0.44
2:D:893:ILE:CG2	2:D:922:ILE:CD1	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1573:GLN:NE2	2:F:1573:GLN:HA	2.33	0.44
2:F:1603:PHE:O	2:F:1607:TYR:HD1	2.00	0.44
2:H:2066:TYR:CZ	2:H:2102:LEU:HB3	2.52	0.44
2:H:2139:ILE:CG2	2:H:2140:THR:N	2.81	0.44
2:H:2179:THR:CG2	2:H:2180:ALA:N	2.81	0.44
2:H:2249:ILE:CG2	2:H:2250:ALA:N	2.81	0.44
1:I:2359:ASN:HD21	1:I:2377:ARG:HD3	1.83	0.44
1:I:2434:VAL:HG13	1:I:2435:SER:N	2.32	0.44
1:K:2920:ILE:CD1	1:K:2962:PHE:HZ	2.31	0.44
1:K:2957:GLN:HE21	1:K:2957:GLN:HB2	1.58	0.44
2:D:950:ARG:CD	2:D:952:LEU:HD21	2.47	0.44
2:D:964:TYR:OH	2:D:969:LEU:HD11	2.17	0.44
1:E:1268:ILE:CD1	1:E:1296:LEU:HB2	2.47	0.44
2:F:1616:VAL:CG1	2:F:1617:ALA:N	2.81	0.44
2:F:1662:TYR:CZ	1:G:1928:GLU:HB2	2.52	0.44
1:G:1731:VAL:HG23	1:G:1732:ALA:N	2.32	0.44
2:H:2119:PRO:HA	2:H:2122:VAL:HG12	2.00	0.44
2:H:2237:ARG:CG	1:I:2498:ALA:HB1	2.48	0.44
1:I:2293:ILE:CG2	1:I:2294:GLY:N	2.81	0.44
1:I:2407:THR:CG2	1:I:2408:THR:N	2.81	0.44
1:I:2411:LEU:O	1:I:2414:VAL:HG12	2.18	0.44
2:J:2598:THR:HG22	2:J:2599:VAL:N	2.33	0.44
2:J:2670:ALA:C	2:J:2673:LEU:HD23	2.39	0.44
2:B:434:LEU:HD12	2:B:437:ARG:HD3	1.99	0.44
2:B:523:LEU:HA	2:B:526:ILE:HD13	1.99	0.44
1:C:709:GLU:HG3	1:C:713:GLN:HB2	2.00	0.44
2:D:906:ILE:HD11	2:D:958:GLN:C	2.37	0.44
2:D:960:LEU:HB3	2:D:961:PRO:CD	2.43	0.44
2:D:1117:THR:CG2	2:D:1118:ALA:N	2.80	0.44
2:F:1474:GLN:O	2:F:1474:GLN:HG2	2.18	0.44
2:F:1665:LEU:HG	2:F:1666:ARG:H	1.77	0.44
1:G:1718:VAL:CG1	1:G:1719:PHE:N	2.80	0.44
2:H:2151:ARG:O	2:H:2155:GLU:HG3	2.17	0.44
2:H:2195:ALA:CA	2:H:2198:LEU:CD2	2.91	0.44
2:H:2236:LEU:HD12	2:H:2236:LEU:HA	1.84	0.44
1:I:2321:VAL:HG12	1:I:2349:ILE:HG12	1.97	0.44
2:J:2816:ILE:CG2	2:J:2817:SER:N	2.80	0.44
1:K:3009:LEU:HD13	1:K:3009:LEU:C	2.38	0.44
1:K:3125:LEU:HD12	1:K:3125:LEU:N	2.32	0.44
1:A:218:SER:CB	1:K:3090:LEU:HD12	2.48	0.44
2:B:409:VAL:CG1	2:B:410:ASN:N	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:963:MET:SD	2:D:967:LEU:CB	3.05	0.44
2:D:984:LEU:CD2	2:D:1007:ILE:CD1	2.93	0.44
2:F:1508:THR:HG22	2:F:1509:GLY:H	1.81	0.44
2:F:1658:LYS:HD3	2:F:1662:TYR:CZ	2.53	0.44
1:G:1836:THR:CG2	1:G:1837:THR:N	2.81	0.44
2:J:2673:LEU:HD13	2:J:2676:MET:HE3	1.98	0.44
1:A:5:VAL:CG2	1:A:6:PHE:N	2.81	0.43
1:C:795:ILE:HG13	1:C:799:LEU:HD21	2.00	0.43
2:D:915:ILE:O	2:D:919:GLN:HG3	2.17	0.43
1:E:1296:LEU:HG	1:E:1307:LEU:CD1	2.47	0.43
1:E:1361:LYS:HG3	1:E:1365:LEU:CD2	2.48	0.43
2:F:1478:LEU:HD23	2:F:1483:HIS:CG	2.53	0.43
2:F:1658:LYS:HB3	2:F:1662:TYR:CD1	2.53	0.43
1:G:1944:ALA:HB3	1:G:1948:LEU:CB	2.48	0.43
2:H:2045:GLN:CA	2:H:2103:PRO:HB2	2.48	0.43
2:H:2075:ILE:HD11	2:H:2123:ASN:HD22	1.83	0.43
2:H:2233:TYR:CZ	1:I:2499:GLU:HG3	2.53	0.43
1:I:2293:ILE:HD13	1:I:2293:ILE:C	2.37	0.43
1:I:2349:ILE:HD11	1:I:2351:PHE:HZ	1.81	0.43
1:I:2439:THR:CG2	1:I:2440:GLU:N	2.81	0.43
1:I:2519:LEU:CA	2:J:2788:ALA:CB	2.78	0.43
2:J:2676:MET:HE3	2:J:2676:MET:HB2	1.95	0.43
1:K:3113:THR:CG2	1:K:3114:TYR:H	2.28	0.43
1:A:92:LEU:HD21	1:A:168:VAL:HG21	2.01	0.43
1:A:155:THR:CG2	1:A:156:GLU:N	2.80	0.43
2:B:341:HIS:CB	2:B:343:ARG:HH12	2.31	0.43
2:B:523:LEU:C	1:C:788:ASP:HB3	2.38	0.43
2:B:543:ILE:CD1	2:H:2256:ILE:CG2	2.94	0.43
1:C:795:ILE:CG2	1:C:796:ALA:N	2.81	0.43
2:D:915:ILE:C	2:D:915:ILE:HD13	2.37	0.43
2:D:1005:LEU:O	2:D:1008:ARG:HB3	2.18	0.43
2:D:1125:LEU:HD23	2:D:1126:GLN:O	2.18	0.43
1:E:1185:ARG:NE	1:E:1185:ARG:HA	2.33	0.43
2:F:1477:ILE:CD1	2:F:1532:PRO:HG3	2.46	0.43
2:F:1499:ALA:HA	2:F:1525:ARG:HG3	2.00	0.43
2:F:1665:LEU:HD13	1:G:1930:ASP:H	1.75	0.43
2:F:1706:ASP:HB3	2:F:1708:LEU:CD2	2.48	0.43
2:H:2079:THR:CG2	2:H:2080:GLY:N	2.81	0.43
2:H:2113:TYR:OH	2:H:2162:LEU:HB2	2.19	0.43
2:H:2129:VAL:HG12	2:H:2133:PHE:CE2	2.52	0.43
2:J:2588:VAL:O	2:J:2592:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2673:LEU:CB	2:J:2674:PRO:HD3	2.47	0.43
2:J:2709:LEU:HD11	2:J:2743:LEU:HD23	1.99	0.43
2:J:2807:LEU:HB2	1:K:3076:ALA:CB	2.46	0.43
1:K:2947:LEU:CG	1:K:2982:LEU:HD12	2.48	0.43
1:A:126:ILE:HD11	1:A:157:ARG:HE	1.81	0.43
1:C:661:ILE:HG23	1:C:661:ILE:O	2.17	0.43
2:D:930:PRO:HG3	2:D:952:LEU:CD1	2.48	0.43
2:D:1105:LYS:HB2	2:D:1105:LYS:HE3	1.75	0.43
1:E:1187:VAL:O	1:E:1187:VAL:HG23	2.16	0.43
1:E:1222:THR:CG2	1:E:1223:GLY:N	2.81	0.43
1:E:1414:GLN:HG3	1:E:1414:GLN:OXT	2.17	0.43
2:F:1442:GLY:O	2:F:1446:VAL:HG23	2.18	0.43
1:I:2302:VAL:CG2	1:I:2303:ALA:N	2.81	0.43
2:J:2690:PRO:CA	2:J:2693:VAL:HG12	2.48	0.43
1:K:3059:GLU:O	1:K:3062:LYS:HG3	2.19	0.43
1:A:151:SER:HB3	1:A:168:VAL:HG12	2.01	0.43
2:B:432:VAL:CG1	2:B:433:SER:N	2.82	0.43
2:B:520:TYR:C	1:C:789:SER:HB2	2.38	0.43
1:C:590:ALA:O	1:C:594:VAL:HG23	2.18	0.43
1:C:751:THR:CG2	1:C:752:GLU:N	2.80	0.43
2:D:906:ILE:HD11	2:D:958:GLN:CA	2.48	0.43
2:F:1538:LEU:CG	2:F:1542:TYR:CB	2.96	0.43
2:H:2051:GLU:H	2:H:2051:GLU:CD	2.21	0.43
2:H:2233:TYR:CA	1:I:2502:SER:CB	2.78	0.43
2:H:2236:LEU:HB2	1:I:2502:SER:HA	2.01	0.43
2:J:2645:LYS:H	2:J:2645:LYS:CD	2.24	0.43
2:J:2696:VAL:O	2:J:2700:VAL:HG23	2.18	0.43
2:J:2733:LEU:HD13	2:J:2733:LEU:C	2.38	0.43
1:K:2894:PHE:CE1	1:K:2918:LYS:HB3	2.53	0.43
1:K:3091:ILE:CG2	1:K:3092:GLU:N	2.82	0.43
1:A:78:VAL:CG1	1:A:90:ILE:CD1	2.94	0.43
2:B:486:VAL:CG1	2:B:487:GLU:N	2.82	0.43
2:D:883:VAL:HG22	2:D:884:PHE:N	2.33	0.43
1:E:1380:LEU:HA	1:E:1383:LEU:HD13	2.00	0.43
2:F:1465:PHE:HE2	2:F:1478:LEU:HD21	1.75	0.43
2:F:1528:ALA:CA	2:F:1531:LEU:CD2	2.95	0.43
1:G:1837:THR:CG2	1:G:1838:GLU:N	2.82	0.43
1:G:1890:LYS:HD2	1:G:1891:GLU:HG3	1.99	0.43
2:H:2219:ALA:HA	1:I:2491:LYS:HD3	1.99	0.43
1:I:2464:THR:CG2	1:I:2465:GLU:N	2.82	0.43
1:I:2486:LYS:O	1:I:2489:GLN:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2542:THR:HG22	1:I:2543:TYR:O	2.19	0.43
2:J:2665:LEU:HD23	2:J:2737:ASP:HB2	2.00	0.43
2:J:2677:TYR:CD1	2:J:2677:TYR:C	2.92	0.43
2:J:2828:TYR:CD2	2:J:2830:THR:CG2	2.97	0.43
1:K:2945:ILE:HD13	1:K:3028:LEU:HD23	1.99	0.43
1:K:2965:ILE:HG21	1:K:2969:TYR:CA	2.46	0.43
1:A:119:LEU:HB3	1:A:120:PRO:CD	2.38	0.43
1:A:160:THR:CG2	1:A:161:PHE:N	2.81	0.43
2:B:293:THR:O	2:B:296:LYS:HG2	2.19	0.43
1:C:606:ARG:CG	1:C:640:CYS:SG	3.06	0.43
2:D:983:VAL:CG2	2:D:984:LEU:N	2.82	0.43
2:D:1087:LYS:O	2:D:1088:ASN:O	2.37	0.43
1:E:1177:ARG:CG	1:E:1211:CYS:SG	3.06	0.43
1:E:1321:PHE:CD1	1:E:1322:THR:N	2.87	0.43
1:E:1337:ARG:NH1	1:E:1337:ARG:HB2	2.34	0.43
2:F:1546:VAL:CG1	2:F:1547:LEU:N	2.82	0.43
2:F:1589:PHE:O	2:F:1590:SER:HB2	2.19	0.43
2:F:1690:ASP:CG	2:F:1692:LEU:HD11	2.39	0.43
2:H:2086:MET:HB2	2:H:2174:PHE:CZ	2.50	0.43
2:H:2121:ILE:CG2	2:H:2156:ARG:HD2	2.37	0.43
1:I:2349:ILE:CD1	1:I:2351:PHE:CE1	3.02	0.43
1:I:2447:LEU:HD22	1:I:2447:LEU:O	2.17	0.43
2:J:2709:LEU:HD21	2:J:2743:LEU:HD23	2.01	0.43
1:K:3000:LEU:HD12	1:K:3000:LEU:H	1.83	0.43
1:C:745:THR:HG21	1:C:750:PHE:CE1	2.53	0.43
1:C:807:ILE:CG2	1:C:808:GLU:N	2.82	0.43
1:C:809:LEU:HB2	2:D:1074:GLU:O	2.17	0.43
2:D:1032:PHE:HD1	2:D:1032:PHE:HA	1.56	0.43
1:E:1222:THR:HG23	1:E:1270:LYS:HG3	1.99	0.43
2:F:1586:ALA:HB1	2:F:1591:LEU:CG	2.47	0.43
2:F:1677:THR:CG2	2:F:1678:ILE:N	2.82	0.43
2:F:1678:ILE:CG2	2:F:1679:ALA:N	2.82	0.43
1:G:1721:SER:HA	1:G:1724:LYS:HZ2	1.83	0.43
1:G:1770:LEU:N	1:G:1770:LEU:CD2	2.82	0.43
1:G:1886:LEU:H	1:G:1886:LEU:CD2	2.14	0.43
2:H:2035:ILE:CG2	2:H:2064:ILE:CD1	2.92	0.43
1:K:3043:VAL:CG2	1:K:3044:ALA:N	2.82	0.43
2:B:404:VAL:CG1	2:B:405:LEU:N	2.82	0.43
2:B:441:THR:CA	2:B:451:LEU:HD21	2.48	0.43
2:B:527:ARG:HD3	2:B:527:ARG:C	2.39	0.43
1:C:711:ILE:CG2	1:C:712:THR:N	2.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:1117:THR:CG2	2:D:1118:ALA:H	2.31	0.43
1:E:1266:THR:CG2	1:E:1267:GLU:N	2.82	0.43
2:F:1469:ILE:CG2	2:F:1470:GLY:N	2.82	0.43
2:F:1472:VAL:O	2:F:1472:VAL:HG23	2.19	0.43
2:F:1543:GLU:CG	2:F:1544:GLU:N	2.81	0.43
2:H:2145:VAL:HG23	2:H:2146:SER:N	2.32	0.43
2:J:2637:TYR:OH	2:J:2677:TYR:HB2	2.19	0.43
2:J:2827:ILE:N	2:J:2827:ILE:CD1	2.82	0.43
1:K:2982:LEU:O	1:K:2985:VAL:HG22	2.18	0.43
1:K:3086:ALA:CB	1:K:3090:LEU:CG	2.97	0.43
1:A:41:ARG:HH11	1:A:41:ARG:HD3	1.67	0.43
1:A:259:TYR:CD1	1:A:259:TYR:C	2.93	0.43
2:D:964:TYR:CE1	2:D:969:LEU:CG	2.96	0.43
2:D:1032:PHE:HB3	2:D:1035:GLU:OE1	2.18	0.43
1:E:1151:ILE:CG2	1:E:1152:GLY:N	2.81	0.43
1:E:1231:ASN:HD22	1:E:1231:ASN:HA	1.55	0.43
1:E:1232:ILE:CG1	1:E:1315:LEU:HD12	2.46	0.43
1:E:1297:THR:CG2	1:E:1298:GLU:N	2.81	0.43
2:F:1459:GLY:HA2	2:F:1480:GLU:OE1	2.18	0.43
2:H:2111:LEU:HD23	2:H:2111:LEU:N	2.11	0.43
2:H:2259:THR:HG22	2:H:2260:ALA:N	2.34	0.43
2:J:2643:PRO:HG3	2:J:2665:LEU:HD12	1.98	0.43
1:K:2905:VAL:O	1:K:2905:VAL:HG23	2.19	0.43
1:K:3020:LEU:HD11	1:K:3022:ASP:O	2.19	0.43
1:K:3060:GLN:HE21	1:K:3060:GLN:HB3	1.47	0.43
1:A:50:VAL:HG21	1:A:55:HIS:NE2	2.34	0.43
1:A:161:PHE:CB	1:A:163:LEU:HD23	2.49	0.43
1:A:177:LYS:HB2	1:A:177:LYS:HZ3	1.83	0.43
1:A:185:ALA:O	1:A:188:VAL:HG12	2.19	0.43
2:B:395:ARG:NH2	2:B:396:LEU:HD21	2.33	0.43
1:C:585:LEU:HD23	1:C:585:LEU:C	2.40	0.43
1:C:670:VAL:HG12	1:C:673:GLN:CB	2.41	0.43
2:D:897:ARG:HD2	2:D:897:ARG:O	2.19	0.43
2:D:951:VAL:HB	2:D:1022:LEU:HD11	2.01	0.43
1:E:1160:VAL:CG1	1:E:1161:ALA:N	2.81	0.43
1:E:1177:ARG:CZ	1:E:1193:GLY:CA	2.96	0.43
2:F:1566:GLN:HG3	2:F:1570:GLN:HB2	2.00	0.43
2:F:1615:GLN:HG3	2:F:1619:GLN:HE21	1.84	0.43
2:F:1658:LYS:HB2	2:F:1662:TYR:CE1	2.54	0.43
2:H:2075:ILE:CD1	2:H:2122:VAL:HG11	2.45	0.43
2:H:2223:LEU:CD2	2:H:2237:ARG:CZ	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2512:LEU:HA	1:I:2519:LEU:HD12	2.01	0.43
1:A:161:PHE:HB3	1:A:163:LEU:CD2	2.49	0.42
2:B:414:LYS:O	2:B:414:LYS:HD3	2.19	0.42
2:B:474:VAL:CG1	2:B:475:ALA:N	2.81	0.42
1:C:813:GLU:HB3	2:D:1074:GLU:CB	2.48	0.42
2:D:884:PHE:HD2	2:D:921:PRO:HG3	1.83	0.42
2:D:893:ILE:CG2	2:D:922:ILE:HD11	2.44	0.42
2:F:1685:ILE:CG1	1:G:1970:ILE:HG13	2.49	0.42
1:G:1721:SER:O	1:G:1724:LYS:HD2	2.19	0.42
1:G:1821:THR:CG2	1:G:1822:SER:N	2.81	0.42
1:G:1941:LEU:CG	1:G:1949:ILE:HB	2.49	0.42
2:H:2036:PHE:CZ	2:H:2044:GLN:NE2	2.86	0.42
1:I:2447:LEU:HD13	1:I:2447:LEU:H	1.84	0.42
2:J:2611:ILE:CG2	2:J:2612:GLY:N	2.82	0.42
2:J:2667:ARG:CG	2:J:2734:ILE:CG2	2.94	0.42
2:J:2692:ILE:O	2:J:2696:VAL:HG23	2.18	0.42
2:J:2701:VAL:HG23	2:J:2702:ALA:N	2.34	0.42
1:K:2888:GLY:O	1:K:2924:CYS:HB3	2.19	0.42
1:K:2978:THR:CG2	1:K:2979:THR:N	2.82	0.42
2:B:293:THR:CG2	2:B:294:ALA:N	2.82	0.42
2:B:332:GLN:HE21	2:B:332:GLN:HB2	1.71	0.42
2:B:459:LEU:HD23	2:B:459:LEU:N	2.19	0.42
2:B:499:GLN:O	2:B:503:GLU:HG2	2.19	0.42
1:C:628:LEU:HD23	1:C:635:PRO:CD	2.49	0.42
1:C:660:ASN:ND2	1:C:743:HIS:HE1	2.17	0.42
1:C:809:LEU:HB3	2:D:1074:GLU:C	2.40	0.42
2:D:875:VAL:CG1	2:D:876:ALA:N	2.82	0.42
1:G:1759:GLN:HG2	1:G:1761:ILE:H	1.84	0.42
1:G:1855:GLN:NE2	1:G:1858:LEU:HG	2.34	0.42
2:H:2172:LEU:N	2:H:2172:LEU:CD1	2.81	0.42
1:I:2524:LYS:HG3	1:I:2525:LEU:N	2.33	0.42
1:I:2542:THR:CG2	1:I:2543:TYR:N	2.79	0.42
1:K:3055:VAL:CG2	1:K:3056:GLU:N	2.82	0.42
1:A:78:VAL:HG22	1:A:80:THR:HG23	1.99	0.42
1:A:124:THR:CG2	1:A:125:GLU:N	2.82	0.42
1:C:725:LEU:HD22	1:C:736:LEU:HD22	1.97	0.42
1:E:1221:ILE:N	1:E:1221:ILE:CD1	2.82	0.42
1:E:1245:LEU:CB	1:E:1246:PRO:HD3	2.38	0.42
2:F:1435:THR:CG2	2:F:1436:ALA:N	2.82	0.42
2:F:1538:LEU:HD13	2:F:1538:LEU:C	2.39	0.42
2:F:1582:LEU:CD1	2:F:1596:VAL:HG21	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:2033:ARG:CG	2:H:2068:ILE:CG1	2.96	0.42
2:H:2066:TYR:CE1	2:H:2102:LEU:HB3	2.53	0.42
2:H:2096:ARG:CZ	2:H:2163:ILE:CD1	2.97	0.42
2:H:2130:VAL:HG13	2:H:2131:ALA:N	2.35	0.42
1:I:2374:ILE:HG22	1:I:2375:THR:N	2.33	0.42
2:J:2577:THR:CG2	2:J:2578:ALA:N	2.83	0.42
2:J:2616:GLN:O	2:J:2674:PRO:HG2	2.19	0.42
2:B:332:GLN:CA	2:B:390:PRO:HB2	2.49	0.42
2:B:412:VAL:CG1	2:B:413:LEU:N	2.83	0.42
2:B:543:ILE:HD13	2:H:2256:ILE:CG2	2.46	0.42
1:C:597:ALA:O	1:C:628:LEU:HD13	2.19	0.42
1:C:663:LEU:HD11	1:C:698:LEU:HD22	2.01	0.42
1:C:799:LEU:HD23	1:C:806:LEU:CD2	2.47	0.42
2:D:1011:LEU:HD23	2:D:1025:VAL:HG11	2.01	0.42
1:E:1296:LEU:CD2	1:E:1307:LEU:CD1	2.97	0.42
2:F:1523:LEU:HD23	2:F:1595:ASP:HB3	2.02	0.42
1:G:1722:ILE:O	1:G:1725:PHE:CD1	2.72	0.42
1:G:1805:LEU:HD11	1:G:1881:VAL:HG13	2.00	0.42
1:G:1855:GLN:HE21	1:G:1858:LEU:HG	1.85	0.42
2:H:2066:TYR:HH	2:H:2106:TYR:CB	2.31	0.42
2:H:2122:VAL:CG1	2:H:2123:ASN:N	2.83	0.42
2:H:2229:LYS:O	2:H:2233:TYR:CG	2.73	0.42
2:H:2272:PHE:CD1	2:H:2273:THR:N	2.81	0.42
1:I:2289:VAL:CG1	1:I:2290:PHE:N	2.82	0.42
1:I:2306:VAL:CG1	1:I:2307:VAL:N	2.83	0.42
1:I:2330:GLN:CD	1:I:2331:ASP:H	2.23	0.42
1:I:2517:ASP:HA	1:I:2520:ILE:CD1	2.49	0.42
1:I:2522:LEU:HB3	2:J:2788:ALA:N	2.34	0.42
2:J:2770:VAL:CG2	2:J:2771:GLU:N	2.83	0.42
2:J:2798:LEU:HD11	2:J:2805:ILE:HG13	1.99	0.42
1:K:2861:PHE:O	1:K:2864:ILE:HG22	2.19	0.42
1:K:3086:ALA:CB	1:K:3090:LEU:CD2	2.92	0.42
1:A:78:VAL:HG11	1:A:127:LEU:HG	2.02	0.42
2:B:469:VAL:CG1	2:B:470:GLU:N	2.83	0.42
1:C:649:VAL:CG1	1:C:661:ILE:CG2	2.97	0.42
2:D:947:ILE:O	2:D:947:ILE:HG23	2.18	0.42
1:E:1260:VAL:HG13	1:E:1261:LEU:N	2.33	0.42
2:F:1458:GLU:CG	2:F:1459:GLY:N	2.83	0.42
1:G:1818:ARG:C	1:G:1821:THR:HG22	2.39	0.42
1:I:2295:LYS:HA	1:I:2298:LEU:HD13	2.01	0.42
1:I:2378:ILE:CG2	1:I:2449:LEU:CD1	2.94	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2391:PHE:C	1:I:2391:PHE:CD1	2.92	0.42
2:J:2765:ARG:O	2:J:2769:LEU:HG	2.19	0.42
2:J:2782:VAL:CG2	2:J:2783:GLN:N	2.83	0.42
2:J:2804:TYR:C	1:K:3073:SER:HB2	2.40	0.42
1:A:60:TRP:CD1	1:A:60:TRP:C	2.92	0.42
1:A:186:LYS:HE3	1:A:186:LYS:CA	2.48	0.42
2:B:514:LEU:HD22	2:B:514:LEU:C	2.37	0.42
2:B:545:LEU:HD13	2:B:546:THR:N	2.33	0.42
2:D:964:TYR:CZ	2:D:969:LEU:HG	2.53	0.42
2:D:1094:LEU:HD22	2:D:1094:LEU:N	2.33	0.42
2:F:1461:HIS:HB3	2:F:1494:ILE:HD11	2.01	0.42
1:G:1920:LYS:HG3	1:G:1921:LYS:N	2.34	0.42
1:G:1944:ALA:CB	1:G:1948:LEU:CD2	2.94	0.42
2:H:2242:ALA:CA	2:H:2245:ILE:HG12	2.49	0.42
1:I:2292:SER:O	1:I:2295:LYS:HG2	2.19	0.42
1:I:2397:ASP:CG	1:I:2400:GLU:HG2	2.40	0.42
1:I:2440:GLU:HG3	1:I:2441:ARG:N	2.34	0.42
1:I:2484:VAL:CG2	1:I:2485:GLU:N	2.82	0.42
1:I:2522:LEU:CD2	2:J:2787:GLU:O	2.67	0.42
2:J:2657:MET:O	2:J:2745:PHE:CZ	2.73	0.42
2:J:2805:ILE:HG23	2:J:2808:ARG:NH1	2.27	0.42
1:K:2926:SER:HA	1:K:2951:PHE:O	2.19	0.42
1:K:3010:THR:CG2	1:K:3011:GLU:N	2.82	0.42
2:B:351:ILE:N	2:B:351:ILE:CD1	2.82	0.42
1:C:689:VAL:HG22	1:C:693:ILE:HD12	2.02	0.42
2:F:1523:LEU:HB2	2:F:1594:ASP:HB2	2.02	0.42
2:F:1696:LEU:N	2:F:1696:LEU:CD1	2.83	0.42
1:G:1752:PHE:CD2	1:G:1778:ILE:HD11	2.54	0.42
1:G:1832:LEU:HD21	1:G:1876:LEU:CD2	2.49	0.42
2:H:2026:PHE:HB2	2:H:2056:ARG:CD	2.49	0.42
2:H:2229:LYS:HB2	2:H:2233:TYR:CD2	2.53	0.42
2:H:2256:ILE:O	2:H:2256:ILE:HG13	2.18	0.42
1:I:2419:ASP:HB3	1:I:2422:GLU:HG2	2.01	0.42
2:J:2716:VAL:CG1	2:J:2717:SER:N	2.83	0.42
1:K:2933:VAL:HB	1:K:2982:LEU:HD13	2.01	0.42
1:K:3093:LEU:CD2	1:K:3093:LEU:O	2.67	0.42
1:A:200:VAL:CG2	1:A:201:GLU:N	2.82	0.42
1:A:228:LEU:HD23	1:A:236:ILE:CG1	2.50	0.42
1:A:231:ALA:CB	1:A:235:LEU:HG	2.50	0.42
1:A:238:LEU:CD2	1:A:241:LEU:HD23	2.49	0.42
2:B:360:ARG:CD	2:B:361:LYS:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:745:THR:HB	1:C:746:PHE:O	2.18	0.42
1:C:809:LEU:HB3	2:D:1074:GLU:O	2.20	0.42
2:D:996:LEU:HD23	2:D:996:LEU:HA	1.86	0.42
2:D:1094:LEU:HD23	1:E:1363:ALA:HB1	2.02	0.42
1:E:1370:LEU:HD11	1:E:1378:ILE:HD13	1.99	0.42
2:F:1497:ILE:CG2	2:F:1498:ARG:N	2.83	0.42
2:F:1627:LEU:HD23	2:F:1627:LEU:C	2.40	0.42
1:G:1815:GLN:HE22	1:G:1818:ARG:NH1	2.18	0.42
1:G:1818:ARG:CA	1:G:1821:THR:HG22	2.50	0.42
2:H:2010:LEU:HD23	2:H:2010:LEU:C	2.40	0.42
2:H:2077:SER:HB3	2:H:2126:LEU:HD23	2.01	0.42
2:H:2175:SER:OG	2:H:2176:ARG:HD2	2.19	0.42
1:I:2322:ILE:CG2	1:I:2330:GLN:HB3	2.50	0.42
1:I:2359:ASN:ND2	1:I:2377:ARG:HD3	2.33	0.42
2:J:2637:TYR:OH	2:J:2677:TYR:HD2	2.02	0.42
2:J:2662:LEU:HD11	2:J:2740:ILE:HG22	2.01	0.42
1:A:99:VAL:HG23	1:A:162:GLY:O	2.19	0.42
1:A:139:LEU:HD21	1:A:173:LEU:HD23	1.96	0.42
2:D:967:LEU:HD11	2:D:974:ARG:HB2	2.01	0.42
2:D:987:VAL:CG2	2:D:988:VAL:N	2.82	0.42
1:E:1222:THR:HG22	1:E:1223:GLY:H	1.84	0.42
2:F:1450:VAL:CG1	2:F:1451:ARG:N	2.82	0.42
2:F:1662:TYR:HA	1:G:1931:SER:HB2	1.91	0.42
2:F:1684:ARG:HH22	1:G:1968:ARG:HD3	1.85	0.42
1:G:1853:ILE:O	1:G:1856:ARG:HG3	2.20	0.42
1:I:2398:TYR:OH	1:I:2447:LEU:HB3	2.19	0.42
1:K:3050:ARG:O	1:K:3054:VAL:HG13	2.20	0.42
1:K:3086:ALA:HB3	1:K:3090:LEU:CG	2.50	0.42
1:A:122:ILE:CG1	1:A:123:THR:N	2.82	0.42
2:B:393:TYR:HD1	2:B:398:LEU:HD23	1.85	0.42
2:B:413:LEU:CD1	2:B:417:VAL:HG11	2.50	0.42
1:C:649:VAL:O	1:C:649:VAL:HG13	2.19	0.42
1:C:694:THR:CG2	1:C:695:THR:N	2.81	0.42
2:D:1094:LEU:CD2	2:D:1094:LEU:N	2.83	0.42
1:E:1381:ARG:HA	2:F:1645:GLU:CG	2.32	0.42
2:F:1599:THR:HG22	2:F:1600:GLU:H	1.83	0.42
2:F:1658:LYS:O	2:F:1659:ASN:O	2.37	0.42
1:G:1715:ALA:O	1:G:1718:VAL:HG12	2.20	0.42
1:G:1831:VAL:HG21	1:G:1874:PHE:CZ	2.53	0.42
2:J:2680:LEU:CD2	2:J:2684:TYR:CD1	3.03	0.42
2:J:2693:VAL:CG1	2:J:2694:ASN:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2777:GLN:O	2:J:2781:ILE:HG13	2.20	0.42
2:J:2808:ARG:HG2	1:K:3069:ALA:O	2.19	0.42
2:J:2811:ARG:HD3	1:K:3072:ASP:OD2	2.20	0.42
2:J:2816:ILE:O	2:J:2820:ILE:HG22	2.20	0.42
2:J:2841:GLU:HG2	2:J:2842:SER:C	2.39	0.42
1:K:2913:ILE:CG2	1:K:2916:VAL:HB	2.50	0.42
1:K:3121:VAL:CG1	1:K:3122:LEU:N	2.82	0.42
1:A:218:SER:HG	1:K:3090:LEU:HD12	1.84	0.41
1:C:662:THR:HG22	1:C:743:HIS:CD2	2.55	0.41
2:F:1462:ARG:CD	2:F:1528:ALA:HB1	2.49	0.41
2:F:1558:VAL:CG2	2:F:1559:VAL:N	2.82	0.41
2:F:1658:LYS:CB	2:F:1662:TYR:CD1	3.03	0.41
1:G:1812:VAL:CG1	1:G:1815:GLN:CG	2.95	0.41
1:I:2406:ILE:HA	1:I:2409:GLU:HG2	2.02	0.41
1:K:2952:ARG:HB2	1:K:2952:ARG:HH11	1.85	0.41
1:A:91:THR:HG23	1:A:91:THR:O	2.20	0.41
1:A:183:VAL:CG1	1:A:184:GLU:N	2.82	0.41
1:A:188:VAL:CG1	1:A:189:ALA:N	2.82	0.41
2:D:950:ARG:HD3	2:D:952:LEU:CD2	2.50	0.41
2:F:1478:LEU:HD23	2:F:1483:HIS:CD2	2.55	0.41
2:F:1486:ILE:HA	2:F:1487:PRO:HD3	1.67	0.41
2:F:1508:THR:CG2	2:F:1509:GLY:N	2.81	0.41
2:F:1693:VAL:C	2:F:1694:LEU:HD12	2.41	0.41
1:G:1726:GLY:O	1:G:1729:LEU:HB3	2.21	0.41
1:G:1843:VAL:CG1	1:G:1844:VAL:N	2.82	0.41
1:G:1859:VAL:CG1	1:G:1860:SER:N	2.82	0.41
1:G:1860:SER:CA	1:G:1883:LEU:HD11	2.43	0.41
2:H:2187:VAL:CG2	2:H:2188:ALA:N	2.83	0.41
2:H:2240:ARG:HB2	1:I:2501:ASP:CB	2.50	0.41
1:I:2383:VAL:CG1	1:I:2448:ILE:HG12	2.49	0.41
1:K:2931:VAL:HG21	1:K:2978:THR:HG21	2.00	0.41
1:K:2974:LEU:HD21	1:K:3018:LEU:CD2	2.50	0.41
1:K:3038:VAL:CG2	1:K:3039:GLU:N	2.83	0.41
1:A:99:VAL:HG22	1:A:164:ILE:HD11	2.02	0.41
1:A:175:PHE:O	1:A:179:PHE:HB2	2.19	0.41
1:A:245:GLU:O	1:A:249:TYR:CD2	2.74	0.41
2:B:393:TYR:CD1	2:B:398:LEU:HD23	2.56	0.41
2:B:509:MET:HB3	1:C:782:ILE:HD11	2.02	0.41
1:C:661:ILE:HD11	1:C:741:LEU:HB3	2.02	0.41
1:C:662:THR:HG21	1:C:743:HIS:CD2	2.55	0.41
1:C:677:ILE:HD12	1:C:678:PHE:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:720:GLN:HA	1:C:723:ASP:OD1	2.20	0.41
1:C:759:VAL:CG1	1:C:760:ALA:N	2.82	0.41
1:C:799:LEU:CD2	1:C:806:LEU:CD2	2.98	0.41
1:C:806:LEU:CD1	2:D:1072:GLU:CB	2.95	0.41
2:D:864:THR:CG2	2:D:865:ALA:N	2.82	0.41
2:D:907:LEU:HD12	2:D:908:ALA:O	2.20	0.41
2:D:1102:ASN:O	2:D:1105:LYS:HG2	2.20	0.41
1:E:1370:LEU:CD1	1:E:1378:ILE:CD1	2.93	0.41
2:F:1444:GLY:O	2:F:1448:TYR:CD2	2.73	0.41
1:G:1737:ASN:HD22	1:G:1737:ASN:HA	1.62	0.41
2:H:2091:LEU:HD13	2:H:2091:LEU:C	2.39	0.41
2:H:2162:LEU:HD23	2:H:2163:ILE:O	2.19	0.41
2:H:2229:LYS:O	2:H:2233:TYR:CD1	2.73	0.41
1:K:2948:ARG:HD3	1:K:2950:LEU:CD2	2.50	0.41
1:K:2985:VAL:CG2	1:K:2986:VAL:N	2.81	0.41
1:A:61:VAL:CG2	1:A:62:GLN:N	2.83	0.41
1:A:127:LEU:HD13	1:A:131:VAL:CG2	2.51	0.41
1:A:146:VAL:CG1	1:A:147:SER:N	2.84	0.41
1:C:690:LEU:C	1:C:690:LEU:CD2	2.89	0.41
1:C:745:THR:CB	1:C:746:PHE:HA	2.50	0.41
2:F:1665:LEU:CD1	1:G:1931:SER:N	2.82	0.41
1:G:1803:ILE:O	1:G:1803:ILE:HG23	2.20	0.41
1:G:1807:ILE:HG12	1:G:1878:LEU:HD11	2.01	0.41
1:G:1920:LYS:HB2	1:G:1920:LYS:HZ2	1.85	0.41
1:G:1925:ILE:O	1:G:1928:GLU:HG2	2.20	0.41
2:H:2040:ILE:CG1	2:H:2060:PHE:CZ	2.97	0.41
1:I:2319:ARG:HD2	1:I:2384:ALA:HB1	2.02	0.41
1:I:2323:PHE:HB3	1:I:2347:LYS:HG2	2.02	0.41
1:I:2373:ASN:HD22	1:I:2374:ILE:N	2.19	0.41
1:I:2380:PHE:HD1	1:I:2449:LEU:HA	1.84	0.41
1:I:2402:VAL:CG2	1:I:2403:LEU:N	2.83	0.41
2:J:2808:ARG:HG2	1:K:3069:ALA:CA	2.50	0.41
1:K:3029:THR:HG22	1:K:3030:PHE:CA	2.50	0.41
1:A:57:LEU:CD1	1:A:64:PRO:HD3	2.50	0.41
2:B:355:ILE:O	2:B:355:ILE:HG22	2.20	0.41
1:C:689:VAL:CG1	1:C:690:LEU:N	2.82	0.41
1:C:806:LEU:O	2:D:1075:ALA:HB2	2.20	0.41
1:C:814:ALA:O	1:C:818:ILE:HD12	2.20	0.41
2:D:1094:LEU:HB2	1:E:1359:ASP:O	2.19	0.41
2:F:1426:LEU:HG	2:F:1427:PRO:O	2.20	0.41
1:G:1778:ILE:N	1:G:1778:ILE:CD1	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1883:LEU:H	1:G:1883:LEU:CD1	2.33	0.41
2:H:2229:LYS:HD3	2:H:2229:LYS:HA	1.61	0.41
1:I:2341:LEU:CD2	1:I:2348:PRO:CG	2.98	0.41
1:I:2358:ARG:HA	1:I:2358:ARG:NE	2.30	0.41
1:K:2961:ILE:CG1	1:K:2962:PHE:N	2.80	0.41
1:A:48:ILE:HD12	1:A:48:ILE:C	2.41	0.41
2:B:522:LYS:NZ	2:B:522:LYS:HB2	2.36	0.41
1:C:663:LEU:HD11	1:C:698:LEU:HB2	2.03	0.41
1:C:802:ALA:CB	1:C:806:LEU:HB3	2.51	0.41
2:D:1094:LEU:HB3	1:E:1359:ASP:O	2.21	0.41
1:E:1389:ILE:HD13	1:E:1392:GLN:NE2	2.35	0.41
2:F:1550:ILE:O	2:F:1554:VAL:HG23	2.20	0.41
2:F:1582:LEU:HD12	2:F:1583:THR:CA	2.51	0.41
1:G:1791:VAL:CG1	1:G:1793:THR:HG23	2.41	0.41
2:H:2037:PHE:CD2	2:H:2043:VAL:HG22	2.44	0.41
2:H:2258:LEU:HD23	2:H:2258:LEU:C	2.41	0.41
1:I:2445:PHE:HB2	1:I:2447:LEU:HD12	2.02	0.41
1:I:2512:LEU:CD1	1:I:2519:LEU:HD12	2.11	0.41
1:I:2544:LEU:N	1:I:2545:PRO:HD3	2.33	0.41
1:A:224:ILE:CG2	1:A:228:LEU:HD13	2.51	0.41
2:B:506:ALA:CB	1:C:778:LYS:HG2	2.50	0.41
1:C:621:VAL:O	1:C:621:VAL:HG13	2.21	0.41
2:D:1007:ILE:CG2	2:D:1008:ARG:N	2.83	0.41
2:D:1036:TYR:C	2:D:1036:TYR:CD1	2.94	0.41
2:D:1091:TYR:O	1:E:1360:SER:CB	2.69	0.41
1:E:1224:SER:OG	1:E:1281:LEU:HD11	2.20	0.41
2:F:1579:ARG:HA	2:F:1582:LEU:HG	2.02	0.41
2:F:1579:ARG:CA	2:F:1582:LEU:HG	2.51	0.41
1:G:1912:VAL:CG1	1:G:1913:VAL:N	2.84	0.41
1:G:1932:LYS:HD2	1:G:1936:LEU:CG	2.51	0.41
2:J:2646:ILE:CG2	2:J:2693:VAL:HG21	2.46	0.41
2:J:2711:THR:CG2	2:J:2712:GLN:N	2.84	0.41
1:K:3020:LEU:CD2	1:K:3023:VAL:CG2	2.93	0.41
1:K:3086:ALA:HB1	1:K:3090:LEU:CD1	2.42	0.41
1:A:102:GLN:NE2	1:A:162:GLY:HA3	2.36	0.41
1:A:220:ALA:HB2	2:B:493:GLN:HG2	2.03	0.41
1:C:597:ALA:CB	1:C:627:PHE:CE1	2.96	0.41
2:D:848:LEU:HD13	2:D:849:LYS:C	2.41	0.41
2:D:1095:ARG:HG3	1:E:1356:ALA:HB2	1.98	0.41
1:E:1177:ARG:HH21	1:E:1194:GLU:H	1.68	0.41
1:E:1380:LEU:HD13	2:F:1645:GLU:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F:1555:LEU:HD23	2:F:1559:VAL:HG21	2.03	0.41
2:F:1601:LEU:C	2:F:1601:LEU:CD2	2.89	0.41
1:G:1844:VAL:CG1	1:G:1845:ALA:N	2.83	0.41
2:H:2094:LEU:N	2:H:2094:LEU:CD2	2.83	0.41
2:H:2233:TYR:O	1:I:2502:SER:CB	2.68	0.41
1:I:2314:VAL:CG1	1:I:2336:GLU:CA	2.95	0.41
1:I:2319:ARG:CD	1:I:2384:ALA:HB1	2.50	0.41
1:I:2402:VAL:HG11	1:I:2445:PHE:CD1	2.56	0.41
1:I:2472:VAL:CG2	1:I:2473:ALA:N	2.82	0.41
2:J:2606:ILE:CD1	2:J:2607:PHE:N	2.81	0.41
2:J:2610:ARG:CD	2:J:2631:PHE:HA	2.45	0.41
2:J:2804:TYR:O	1:K:3073:SER:CB	2.69	0.41
1:K:2965:ILE:HB	1:K:2969:TYR:HB3	2.02	0.41
1:K:2981:ILE:CD1	1:K:3009:LEU:HB2	2.51	0.41
1:A:199:VAL:CA	1:A:202:LYS:HG2	2.51	0.41
1:A:231:ALA:CB	1:A:235:LEU:CD1	2.90	0.41
2:B:428:GLN:CA	2:B:428:GLN:HE21	2.34	0.41
2:B:523:LEU:CD1	2:B:526:ILE:HG12	2.51	0.41
1:C:661:ILE:CD1	1:C:741:LEU:HD22	2.46	0.41
1:C:663:LEU:CD1	1:C:698:LEU:HD22	2.50	0.41
1:C:682:GLY:O	1:C:685:TYR:HD2	2.04	0.41
1:C:729:ALA:CB	1:C:736:LEU:CD1	2.99	0.41
2:D:897:ARG:HB3	2:D:918:PHE:CE2	2.56	0.41
2:D:980:VAL:O	2:D:983:VAL:HG22	2.20	0.41
2:D:1094:LEU:HD12	2:D:1097:ILE:CG2	2.46	0.41
1:E:1209:PHE:HE1	1:E:1254:GLU:HG2	1.86	0.41
2:F:1574:VAL:O	2:F:1578:ILE:HG23	2.21	0.41
2:F:1706:ASP:HB3	2:F:1708:LEU:HD21	2.03	0.41
1:G:1750:VAL:CG1	1:G:1751:ILE:N	2.83	0.41
1:G:1951:LEU:HB3	2:H:2216:GLU:HG3	1.97	0.41
2:H:2015:GLY:O	2:H:2019:TYR:CD2	2.74	0.41
2:H:2068:ILE:O	2:H:2096:ARG:HB2	2.21	0.41
2:H:2089:ILE:CD1	2:H:2172:LEU:HG	2.29	0.41
2:H:2194:ARG:O	2:H:2198:LEU:HD23	2.21	0.41
2:H:2253:GLN:HE21	2:H:2253:GLN:HB3	1.55	0.41
1:I:2307:VAL:CG1	1:I:2308:ASN:N	2.83	0.41
1:I:2312:TYR:OH	1:I:2348:PRO:HD2	2.21	0.41
1:I:2322:ILE:HG23	1:I:2330:GLN:CB	2.50	0.41
1:I:2432:ARG:O	1:I:2435:SER:HB3	2.21	0.41
1:I:2461:LYS:HA	1:I:2461:LYS:CE	2.48	0.41
1:I:2512:LEU:HD11	1:I:2520:ILE:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:2523:ARG:HB2	2:J:2784:ALA:CB	2.47	0.41
1:K:2859:LYS:HD2	1:K:2859:LYS:C	2.40	0.41
1:K:2924:CYS:O	1:K:2952:ARG:CG	2.68	0.41
1:K:2965:ILE:HB	1:K:2969:TYR:HB2	2.03	0.41
1:K:2985:VAL:CA	1:K:2988:ARG:HD3	2.40	0.41
1:K:3020:LEU:CD1	1:K:3023:VAL:CG2	2.94	0.41
1:K:3113:THR:CG2	1:K:3114:TYR:N	2.79	0.41
1:K:3127:GLN:O	1:K:3127:GLN:HG2	2.21	0.41
1:A:60:TRP:CD1	1:A:61:VAL:N	2.89	0.41
1:A:175:PHE:CD1	1:A:175:PHE:N	2.85	0.41
1:A:239:ARG:CB	2:B:500:ALA:HB1	2.50	0.41
2:B:421:ASN:CG	2:B:424:GLN:HG2	2.40	0.41
2:B:545:LEU:HG	2:F:1687:LEU:CD1	2.51	0.41
1:C:582:LYS:CG	1:C:583:PHE:N	2.83	0.41
1:C:593:VAL:CG1	1:C:594:VAL:N	2.83	0.41
1:C:778:LYS:HD2	1:C:778:LYS:O	2.20	0.41
1:C:810:ARG:HB2	2:D:1071:ALA:CB	2.50	0.41
2:D:880:ARG:O	2:D:883:VAL:HG12	2.20	0.41
2:D:1089:PRO:O	2:D:1093:LYS:HG3	2.21	0.41
2:F:1637:GLN:HE21	2:F:1637:GLN:HB3	1.60	0.41
2:H:2025:VAL:HG22	2:H:2026:PHE:N	2.36	0.41
1:I:2326:PHE:CD1	1:I:2327:ARG:N	2.89	0.41
1:I:2378:ILE:HD12	1:I:2452:VAL:HG23	1.95	0.41
1:I:2379:LEU:N	1:I:2379:LEU:CD2	2.82	0.41
1:I:2457:LEU:O	1:I:2458:THR:CG2	2.69	0.41
1:I:2542:THR:HG22	1:I:2543:TYR:H	1.85	0.41
1:K:2920:ILE:CG1	1:K:2962:PHE:CZ	3.03	0.41
1:K:3054:VAL:CG2	1:K:3055:VAL:N	2.83	0.41
1:A:56:PHE:N	1:A:56:PHE:CD1	2.90	0.40
2:B:380:VAL:CG2	2:B:405:LEU:HD11	2.51	0.40
1:C:611:ASP:CB	1:C:614:ARG:HB2	2.44	0.40
1:C:670:VAL:CG1	1:C:673:GLN:CB	2.99	0.40
1:C:719:ARG:HH11	1:C:719:ARG:HD2	1.78	0.40
2:D:949:LEU:HD22	2:D:980:VAL:HG13	2.03	0.40
1:E:1151:ILE:HG23	1:E:1152:GLY:N	2.36	0.40
1:E:1380:LEU:CG	2:F:1645:GLU:O	2.70	0.40
2:F:1555:LEU:C	2:F:1555:LEU:CD2	2.89	0.40
1:G:1810:ARG:HE	1:G:1810:ARG:HB3	1.48	0.40
1:G:1825:GLU:C	1:G:1827:TYR:H	2.24	0.40
2:J:2616:GLN:CA	2:J:2674:PRO:CB	2.97	0.40
2:J:2741:THR:CG2	2:J:2742:GLU:N	2.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:2844:THR:O	2:J:2845:ARG:HB3	2.21	0.40
1:A:110:ILE:CG1	1:A:111:GLY:N	2.83	0.40
1:C:693:ILE:HG22	1:C:697:ILE:HD12	2.02	0.40
1:C:841:LEU:N	1:C:841:LEU:CD1	2.84	0.40
2:D:947:ILE:HG13	2:D:1030:LEU:HD23	2.03	0.40
1:E:1380:LEU:CD2	1:E:1383:LEU:HB2	2.51	0.40
2:F:1550:ILE:CG1	2:F:1551:VAL:N	2.81	0.40
1:G:1855:GLN:NE2	1:G:1855:GLN:HA	2.35	0.40
1:G:1967:SER:O	1:G:1968:ARG:HG3	2.21	0.40
1:I:2289:VAL:HG13	1:I:2290:PHE:CD1	2.55	0.40
1:I:2512:LEU:CD1	1:I:2523:ARG:CD	2.99	0.40
2:J:2718:LEU:HD23	2:J:2718:LEU:HA	1.90	0.40
2:J:2774:LYS:CD	2:J:2778:ARG:CD	2.94	0.40
1:K:2920:ILE:HG12	1:K:2962:PHE:CE1	2.55	0.40
1:K:3115:LEU:HD23	1:K:3115:LEU:HA	1.94	0.40
1:A:50:VAL:O	1:A:50:VAL:HG13	2.22	0.40
1:A:144:GLU:CG	1:A:145:LEU:N	2.83	0.40
1:A:252:SER:OG	2:B:536:ILE:HD13	2.22	0.40
2:B:332:GLN:CA	2:B:390:PRO:CB	2.97	0.40
2:B:514:LEU:C	2:B:516:LYS:N	2.75	0.40
2:D:1004:SER:HA	2:D:1027:ILE:CD1	2.51	0.40
2:D:1013:GLU:O	2:D:1016:LYS:CD	2.70	0.40
2:D:1040:VAL:O	2:D:1044:GLN:HG3	2.20	0.40
2:D:1092:ILE:CG2	2:D:1093:LYS:N	2.84	0.40
1:E:1317:PHE:HB3	1:E:1320:GLU:CG	2.52	0.40
2:F:1516:VAL:HG23	2:F:1516:VAL:O	2.21	0.40
1:G:1722:ILE:CA	1:G:1725:PHE:CE1	2.90	0.40
1:G:1980:LEU:HD23	1:G:1980:LEU:C	2.41	0.40
2:H:2237:ARG:HH11	2:H:2237:ARG:HD3	1.75	0.40
2:J:2724:LEU:HD23	2:J:2735:LEU:CD1	2.50	0.40
2:J:2821:ALA:CB	1:K:3105:GLN:CG	2.92	0.40
1:K:3029:THR:HG23	1:K:3034:PHE:HB2	2.02	0.40
1:K:3086:ALA:CB	1:K:3090:LEU:CD1	2.95	0.40
2:B:543:ILE:HG23	2:H:2256:ILE:HA	2.03	0.40
1:C:783:ILE:N	1:C:783:ILE:HD12	2.36	0.40
2:D:971:TYR:CD1	2:D:971:TYR:C	2.94	0.40
1:E:1165:VAL:CG2	1:E:1166:ASN:N	2.83	0.40
1:E:1192:VAL:HG12	1:E:1193:GLY:O	2.20	0.40
1:E:1209:PHE:CZ	1:E:1254:GLU:HB3	2.56	0.40
1:E:1234:LEU:HD23	1:E:1265:THR:CG2	2.51	0.40
1:E:1234:LEU:HD23	1:E:1265:THR:HG23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1370:LEU:HG	1:E:1378:ILE:HB	2.01	0.40
1:E:1380:LEU:O	2:F:1645:GLU:CB	2.70	0.40
1:G:1948:LEU:CA	2:H:2217:ALA:CB	2.80	0.40
2:H:2176:ARG:HH11	2:H:2177:GLU:HG2	1.87	0.40
2:H:2223:LEU:CD1	1:I:2495:ILE:HG23	2.51	0.40
1:I:2442:ALA:HA	1:I:2447:LEU:HD11	2.04	0.40
1:K:2997:GLN:OE1	1:K:3000:LEU:HD13	2.20	0.40
1:K:3018:LEU:HD12	1:K:3018:LEU:N	2.36	0.40
1:A:69:CYS:SG	1:A:97:ARG:CD	3.09	0.40
1:A:223:LEU:CD2	2:B:497:ILE:HD13	2.52	0.40
2:B:308:VAL:CG1	2:B:309:ARG:N	2.84	0.40
2:B:336:LEU:CD2	2:B:341:HIS:ND1	2.84	0.40
1:C:638:PHE:HZ	1:C:683:GLU:HA	1.86	0.40
1:E:1292:VAL:CG1	1:E:1293:SER:N	2.84	0.40
2:F:1571:ARG:HA	2:F:1574:VAL:HG12	2.04	0.40
1:G:1903:GLN:O	1:G:1907:GLU:HG3	2.22	0.40
2:H:2233:TYR:C	1:I:2502:SER:HB2	2.40	0.40
2:J:2798:LEU:C	2:J:2800:LYS:N	2.73	0.40
2:J:2807:LEU:HB3	1:K:3073:SER:N	2.35	0.40
1:K:2864:ILE:CG2	1:K:2865:GLY:N	2.83	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	270/272 (99%)	260 (96%)	8 (3%)	2 (1%)	19	57
1	C	270/272 (99%)	261 (97%)	8 (3%)	1 (0%)	30	68
1	E	270/272 (99%)	263 (97%)	6 (2%)	1 (0%)	30	68
1	G	270/272 (99%)	263 (97%)	6 (2%)	1 (0%)	30	68

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	270/272 (99%)	259 (96%)	8 (3%)	3 (1%)	12	47
1	K	270/272 (99%)	263 (97%)	6 (2%)	1 (0%)	30	68
2	B	297/299 (99%)	280 (94%)	14 (5%)	3 (1%)	13	49
2	D	297/299 (99%)	279 (94%)	12 (4%)	6 (2%)	6	32
2	F	297/299 (99%)	284 (96%)	11 (4%)	2 (1%)	19	57
2	H	297/299 (99%)	276 (93%)	15 (5%)	6 (2%)	6	32
2	J	297/299 (99%)	279 (94%)	17 (6%)	1 (0%)	37	73
All	All	3105/3127 (99%)	2967 (96%)	111 (4%)	27 (1%)	17	52

All (27) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	F	1600	GLU
2	F	1659	ASN
2	H	2171	GLU
2	H	2175	SER
2	H	2261	ASP
1	I	2459	PHE
2	B	286	ALA
1	C	743	HIS
2	D	1031	SER
2	D	1032	PHE
2	H	2173	SER
2	H	2272	PHE
2	B	458	GLU
2	D	1029	GLU
2	D	1088	ASN
1	E	1401	TYR
2	H	2271	SER
2	J	2742	GLU
1	K	3027	HIS
2	D	917	TRP
1	G	1822	SER
1	I	2456	HIS
1	I	2548	GLN
1	A	60	TRP
1	A	172	HIS
2	D	1121	LEU
2	B	462	SER

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	224/224 (100%)	205 (92%)	19 (8%)	8	27
1	C	224/224 (100%)	208 (93%)	16 (7%)	12	32
1	E	224/224 (100%)	204 (91%)	20 (9%)	8	25
1	G	224/224 (100%)	201 (90%)	23 (10%)	6	20
1	I	224/224 (100%)	211 (94%)	13 (6%)	17	38
1	K	224/224 (100%)	208 (93%)	16 (7%)	12	32
2	B	248/248 (100%)	226 (91%)	22 (9%)	8	25
2	D	248/248 (100%)	221 (89%)	27 (11%)	5	18
2	F	248/248 (100%)	222 (90%)	26 (10%)	5	19
2	H	248/248 (100%)	229 (92%)	19 (8%)	10	30
2	J	248/248 (100%)	225 (91%)	23 (9%)	7	23
All	All	2584/2584 (100%)	2360 (91%)	224 (9%)	11	25

All (224) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	LYS
1	A	11	LYS
1	A	28	TYR
1	A	43	ARG
1	A	74	ARG
1	A	90	ILE
1	A	97	ARG
1	A	106	ILE
1	A	110	ILE
1	A	116	GLU
1	A	142	GLN
1	A	148	ARG
1	A	177	LYS
1	A	186	LYS
1	A	218	SER

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Mol	Chain	Res	Type
1	A	219	LYS
1	A	235	LEU
1	A	240	LYS
1	A	250	GLN
2	B	306	TYR
2	B	323	PHE
2	B	326	ARG
2	B	332	GLN
2	B	335	ILE
2	B	341	HIS
2	B	353	TYR
2	B	360	ARG
2	B	376	ILE
2	B	385	ASN
2	B	388	GLU
2	B	410	ASN
2	B	429	ARG
2	B	440	LEU
2	B	451	LEU
2	B	459	LEU
2	B	514	LEU
2	B	527	ARG
2	B	532	ILE
2	B	534	LYS
2	B	541	ASN
2	B	544	TYR
1	C	598	LEU
1	C	614	ARG
1	C	627	PHE
1	C	628	LEU
1	C	633	GLN
1	C	654	LYS
1	C	657	GLN
1	C	670	VAL
1	C	720	GLN
1	C	735	ILE
1	C	773	LYS
1	C	789	SER
1	C	809	LEU
1	C	821	GLN
1	C	830	TYR
1	C	831	LEU

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Mol	Chain	Res	Type
2	D	846	GLN
2	D	880	ARG
2	D	896	ASN
2	D	897	ARG
2	D	912	HIS
2	D	915	ILE
2	D	923	ILE
2	D	924	TYR
2	D	950	ARG
2	D	954	ARG
2	D	963	MET
2	D	971	TYR
2	D	972	GLU
2	D	992	ASN
2	D	1016	LYS
2	D	1020	LEU
2	D	1035	GLU
2	D	1036	TYR
2	D	1062	GLN
2	D	1064	GLN
2	D	1070	GLN
2	D	1085	LEU
2	D	1092	ILE
2	D	1095	ARG
2	D	1101	GLN
2	D	1115	TYR
2	D	1124	ASN
1	E	1146	LYS
1	E	1166	ASN
1	E	1181	PHE
1	E	1184	PHE
1	E	1185	ARG
1	E	1190	ILE
1	E	1204	GLN
1	E	1217	ASN
1	E	1237	LEU
1	E	1240	PRO
1	E	1241	VAL
1	E	1248	ILE
1	E	1256	TYR
1	E	1291	GLN
1	E	1332	GLN

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Mol	Chain	Res	Type
1	E	1336	GLU
1	E	1340	PHE
1	E	1348	GLN
1	E	1380	LEU
1	E	1381	ARG
2	F	1455	PHE
2	F	1485	ARG
2	F	1486	ILE
2	F	1489	PHE
2	F	1490	GLN
2	F	1491	TYR
2	F	1496	ASP
2	F	1497	ILE
2	F	1502	ARG
2	F	1503	LYS
2	F	1525	ARG
2	F	1530	GLU
2	F	1538	LEU
2	F	1540	LEU
2	F	1556	LYS
2	F	1566	GLN
2	F	1589	PHE
2	F	1607	TYR
2	F	1614	LYS
2	F	1626	PHE
2	F	1641	GLN
2	F	1645	GLU
2	F	1665	LEU
2	F	1676	LYS
2	F	1685	ILE
2	F	1712	LYS
1	G	1714	MET
1	G	1724	LYS
1	G	1725	PHE
1	G	1737	ASN
1	G	1742	ASN
1	G	1752	PHE
1	G	1756	ARG
1	G	1775	GLN
1	G	1776	LYS
1	G	1780	PHE
1	G	1787	ARG

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Mol	Chain	Res	Type
1	G	1815	GLN
1	G	1839	ILE
1	G	1851	GLU
1	G	1886	LEU
1	G	1890	LYS
1	G	1899	LYS
1	G	1903	GLN
1	G	1917	GLU
1	G	1920	LYS
1	G	1960	ILE
1	G	1964	LEU
1	G	1972	TYR
2	H	1991	LYS
2	H	2009	LYS
2	H	2035	ILE
2	H	2039	ARG
2	H	2051	GLU
2	H	2056	ARG
2	H	2064	ILE
2	H	2074	LYS
2	H	2105	MET
2	H	2111	LEU
2	H	2116	ARG
2	H	2158	LYS
2	H	2169	ILE
2	H	2176	ARG
2	H	2190	GLN
2	H	2209	LYS
2	H	2216	GLU
2	H	2237	ARG
2	H	2249	ILE
1	I	2288	LYS
1	I	2293	ILE
1	I	2296	PHE
1	I	2330	GLN
1	I	2341	LEU
1	I	2358	ARG
1	I	2373	ASN
1	I	2391	PHE
1	I	2447	LEU
1	I	2488	GLU
1	I	2489	GLN

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Mol	Chain	Res	Type
1	I	2491	LYS
1	I	2524	LYS
2	J	2593	ARG
2	J	2604	ARG
2	J	2606	ILE
2	J	2616	GLN
2	J	2619	ILE
2	J	2624	LEU
2	J	2630	TRP
2	J	2633	TYR
2	J	2644	ARG
2	J	2645	LYS
2	J	2646	ILE
2	J	2653	LYS
2	J	2679	ARG
2	J	2721	ARG
2	J	2749	TYR
2	J	2761	GLN
2	J	2764	GLN
2	J	2771	GLU
2	J	2778	ARG
2	J	2800	LYS
2	J	2807	LEU
2	J	2827	ILE
2	J	2845	ARG
1	K	2856	MET
1	K	2883	TYR
1	K	2896	ARG
1	K	2923	ASP
1	K	2962	PHE
1	K	2969	TYR
1	K	2972	ARG
1	K	2988	ARG
1	K	3028	LEU
1	K	3032	LYS
1	K	3042	GLN
1	K	3061	GLN
1	K	3093	LEU
1	K	3104	TYR
1	K	3114	TYR
1	K	3119	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (95)

such sidechains are listed below:

Mol	Chain	Res	Type
1	A	29	ASN
1	A	46	GLN
1	A	142	GLN
1	A	187	GLN
1	A	206	GLN
1	A	264	GLN
2	B	325	ASN
2	B	331	GLN
2	B	332	GLN
2	B	385	ASN
2	B	387	GLN
2	B	410	ASN
2	B	424	GLN
2	B	428	GLN
2	B	491	GLN
2	B	493	GLN
2	B	530	GLN
2	B	540	GLN
2	B	541	ASN
1	C	600	ASN
1	C	633	GLN
1	C	657	GLN
1	C	658	ASN
1	C	660	ASN
1	C	720	GLN
1	C	797	ASN
1	C	821	GLN
1	C	827	ASN
1	C	835	GLN
1	C	843	GLN
2	D	890	HIS
2	D	896	ASN
2	D	912	HIS
2	D	919	GLN
2	D	1044	GLN
2	D	1047	GLN
2	D	1051	GLN
2	D	1062	GLN
2	D	1064	GLN
2	D	1070	GLN
2	D	1124	ASN
1	E	1171	ASN

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Mol	Chain	Res	Type
1	E	1176	HIS
1	E	1231	ASN
1	E	1291	GLN
1	E	1332	GLN
1	E	1347	GLN
1	E	1348	GLN
1	E	1398	ASN
2	F	1417	GLN
2	F	1483	HIS
2	F	1490	GLN
2	F	1566	GLN
2	F	1573	GLN
2	F	1615	GLN
2	F	1619	GLN
2	F	1622	GLN
2	F	1637	GLN
2	F	1641	GLN
1	G	1737	ASN
1	G	1742	ASN
1	G	1759	GLN
1	G	1815	GLN
1	G	1855	GLN
1	G	1862	GLN
1	G	1903	GLN
1	G	1904	GLN
1	G	1919	GLN
1	G	1939	ASN
1	G	1969	ASN
2	H	2032	HIS
2	H	2098	ASN
2	H	2107	GLN
2	H	2141	GLN
2	H	2212	GLN
2	H	2230	ASN
2	H	2243	GLN
1	I	2313	ASN
1	I	2339	HIS
1	I	2346	GLN
1	I	2373	ASN
1	I	2456	HIS
1	I	2489	GLN
1	I	2490	GLN

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Mol	Chain	Res	Type
1	I	2548	GLN
2	J	2615	GLN
2	J	2632	GLN
2	J	2678	GLN
2	J	2764	GLN
2	J	2824	GLN
1	K	2957	GLN
1	K	3042	GLN
1	K	3046	GLN
1	K	3060	GLN
1	K	3119	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-19459. These allow visual inspection of the internal detail of the map and identification of artifacts.

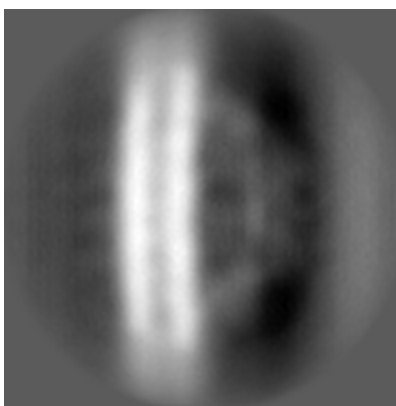
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

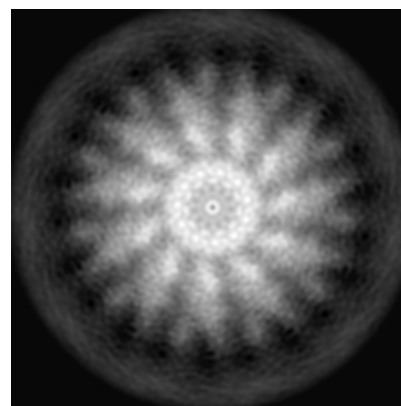
6.1.1 Primary map



X



Y

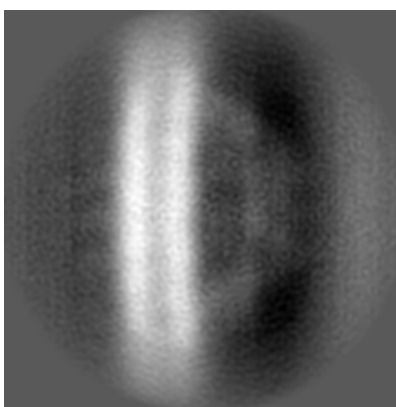


Z

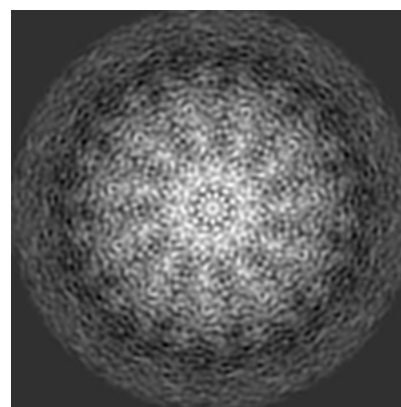
6.1.2 Raw map



X



Y

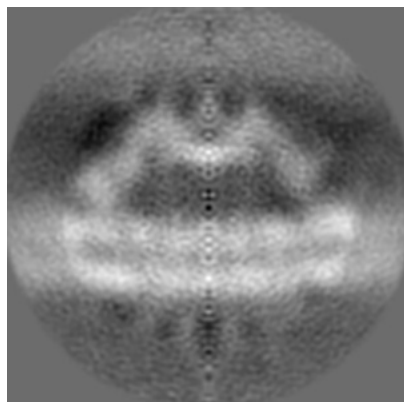


Z

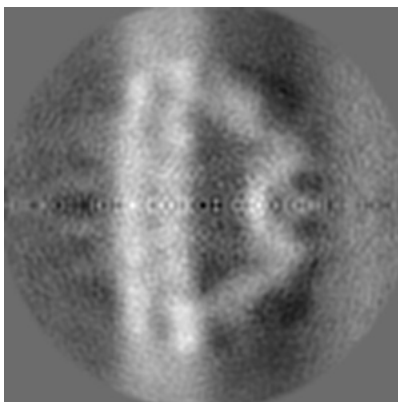
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

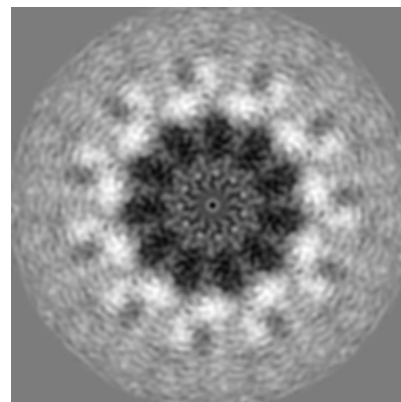
6.2.1 Primary map



X Index: 60

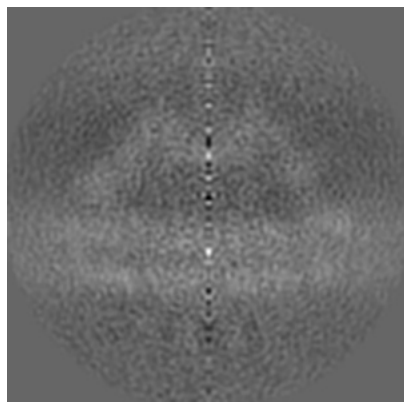


Y Index: 60

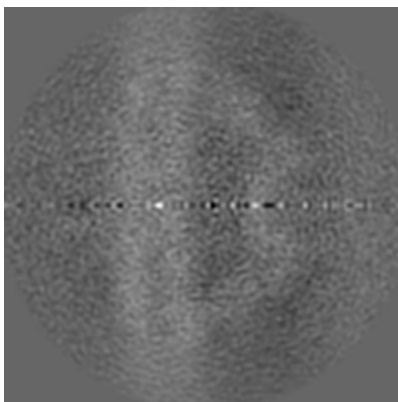


Z Index: 60

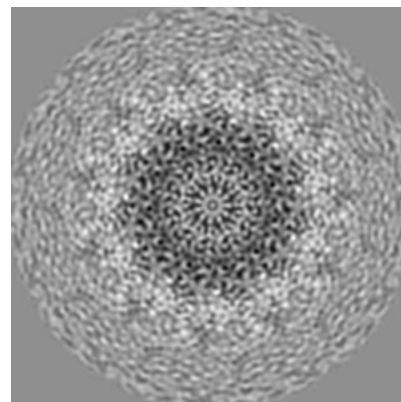
6.2.2 Raw map



X Index: 60



Y Index: 60

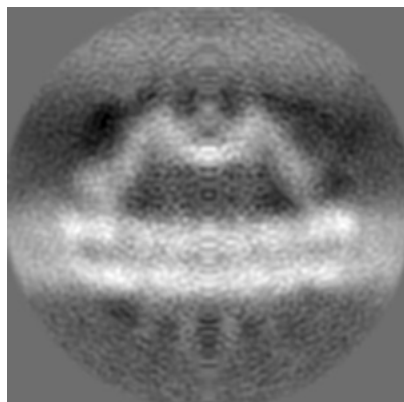


Z Index: 60

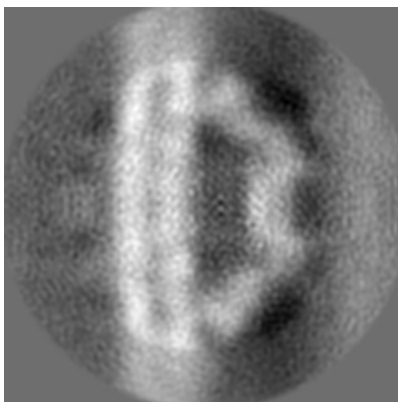
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

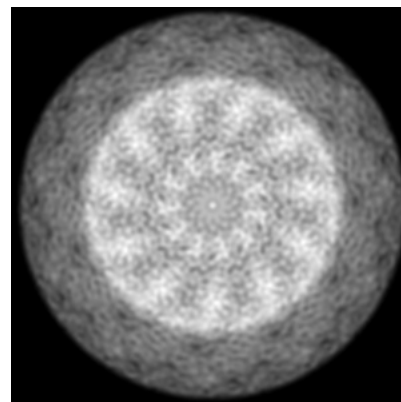
6.3.1 Primary map



X Index: 62

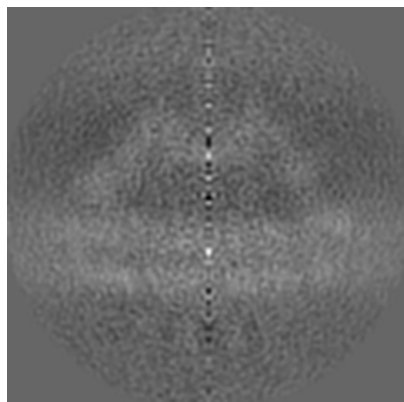


Y Index: 66

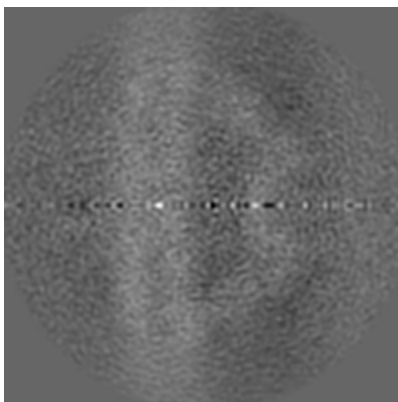


Z Index: 39

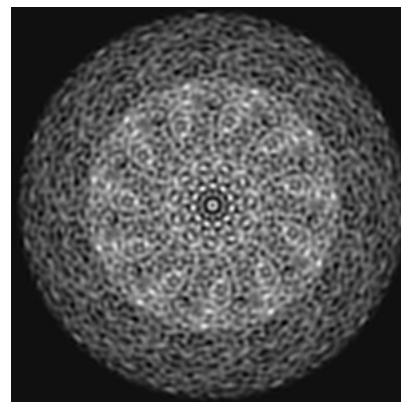
6.3.2 Raw map



X Index: 60



Y Index: 60

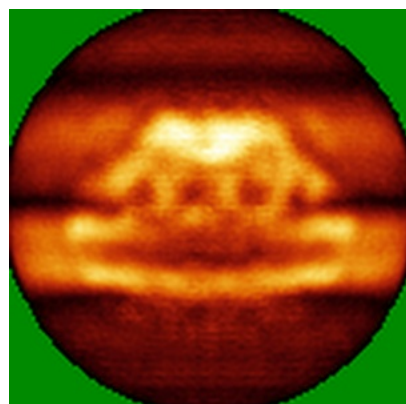


Z Index: 39

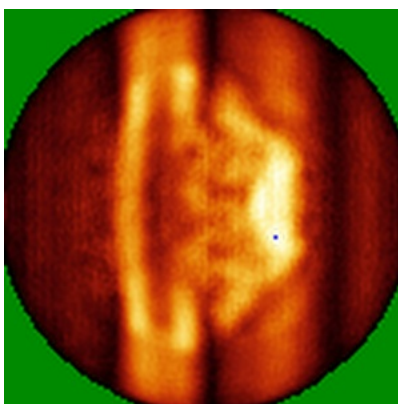
The images above show the largest variance slices of the map in three orthogonal directions.

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

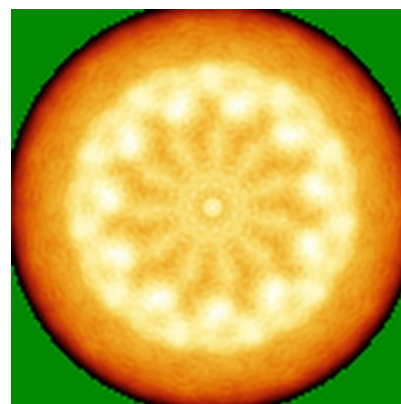
6.4.1 Primary map



X

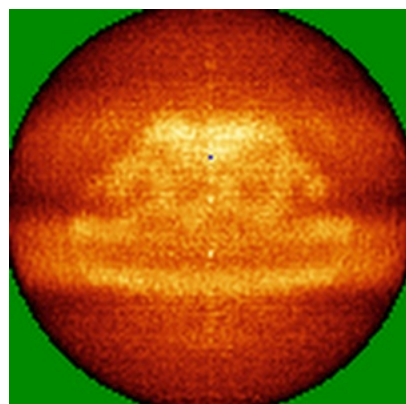


Y

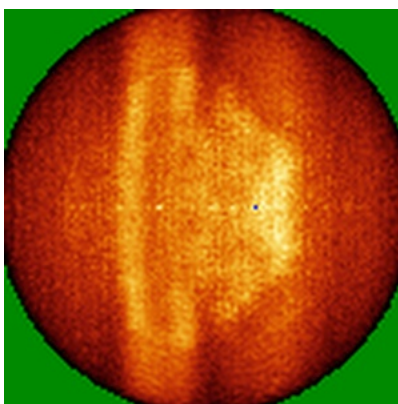


Z

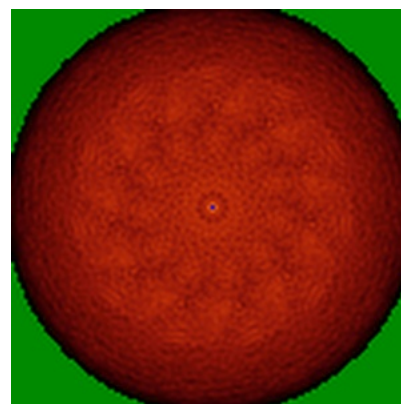
6.4.2 Raw map



X



Y

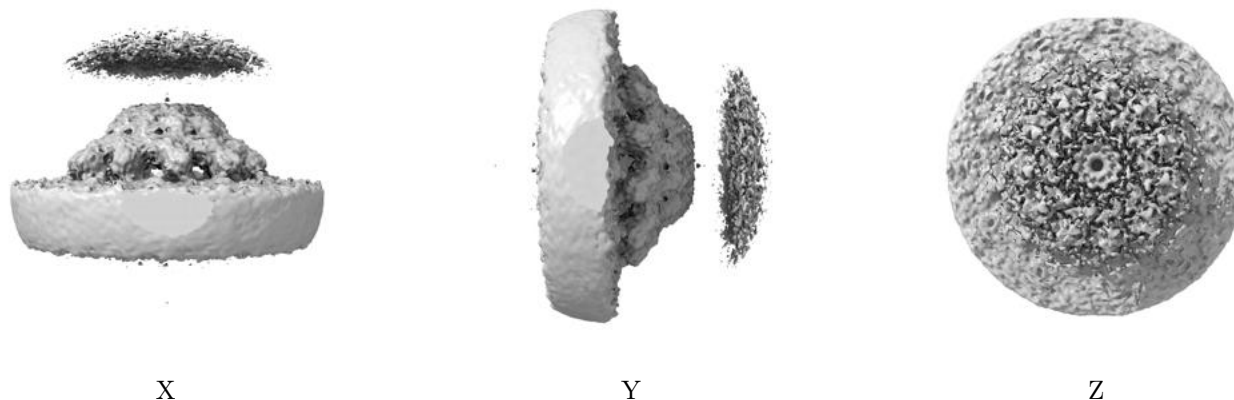


Z

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

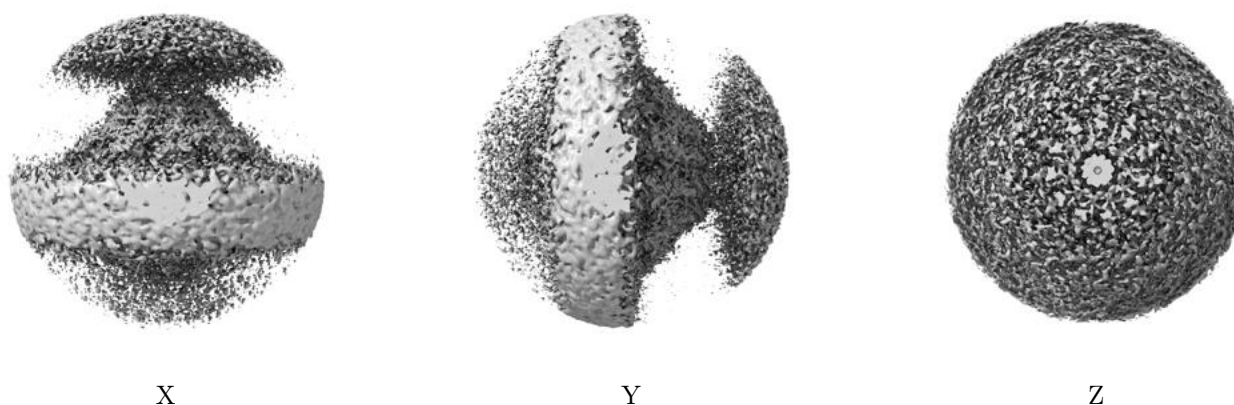
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.075. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



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

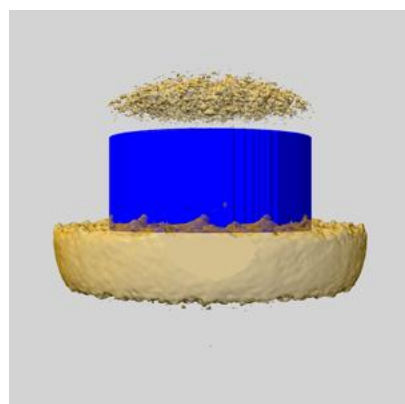
6.6 Mask visualisation [i](#)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

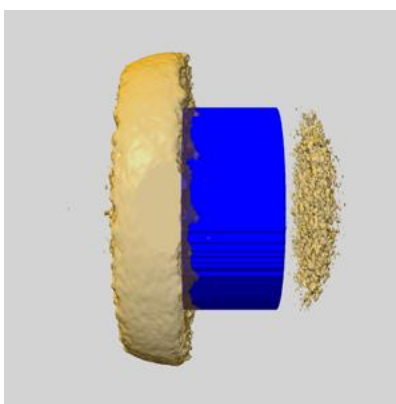
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

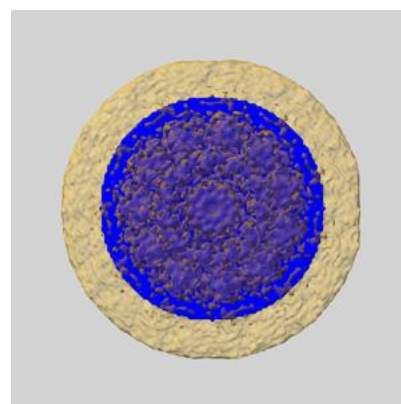
6.6.1 emd_19459_msk_1.map [i](#)



X



Y

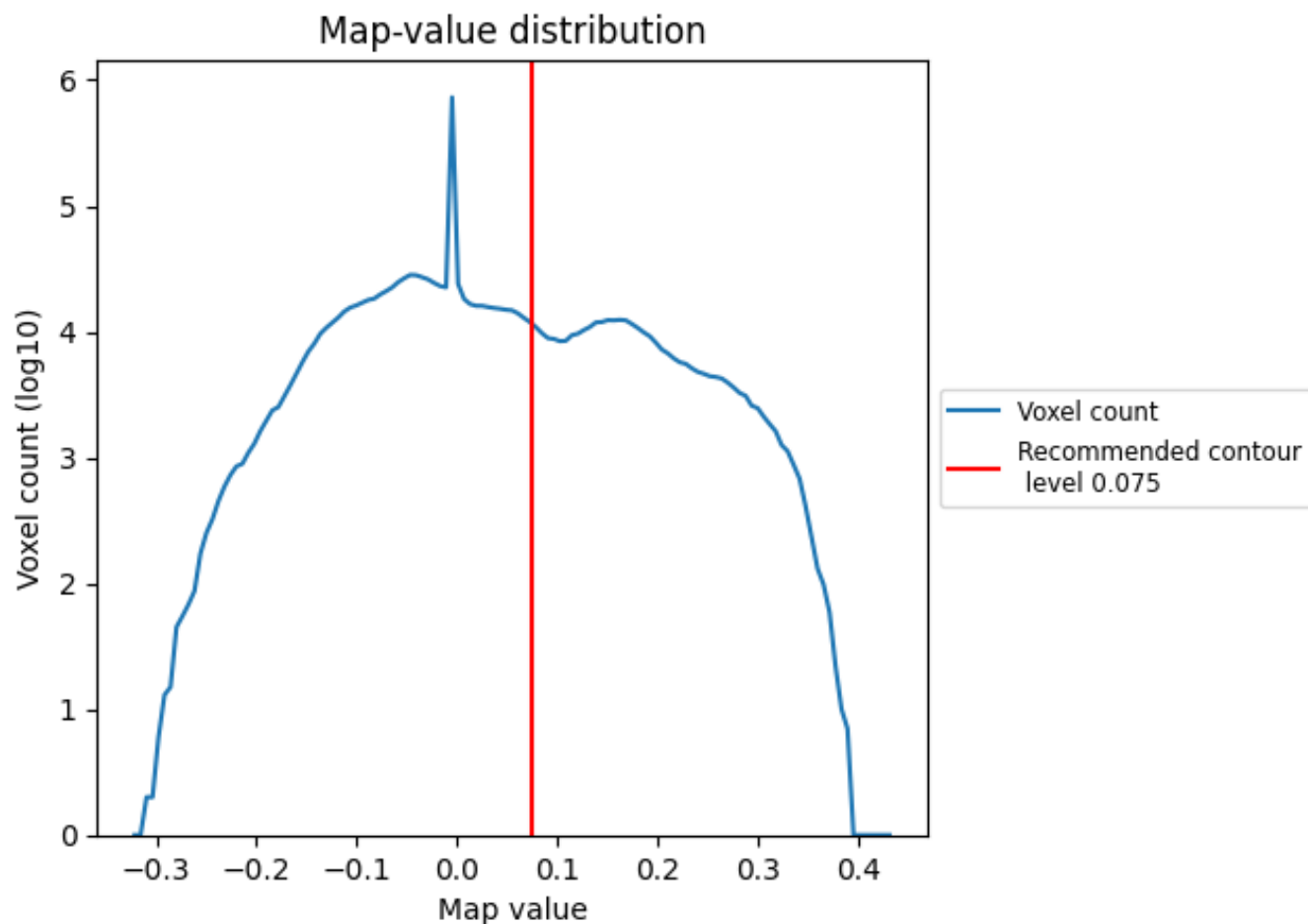


Z

7 Map analysis [i](#)

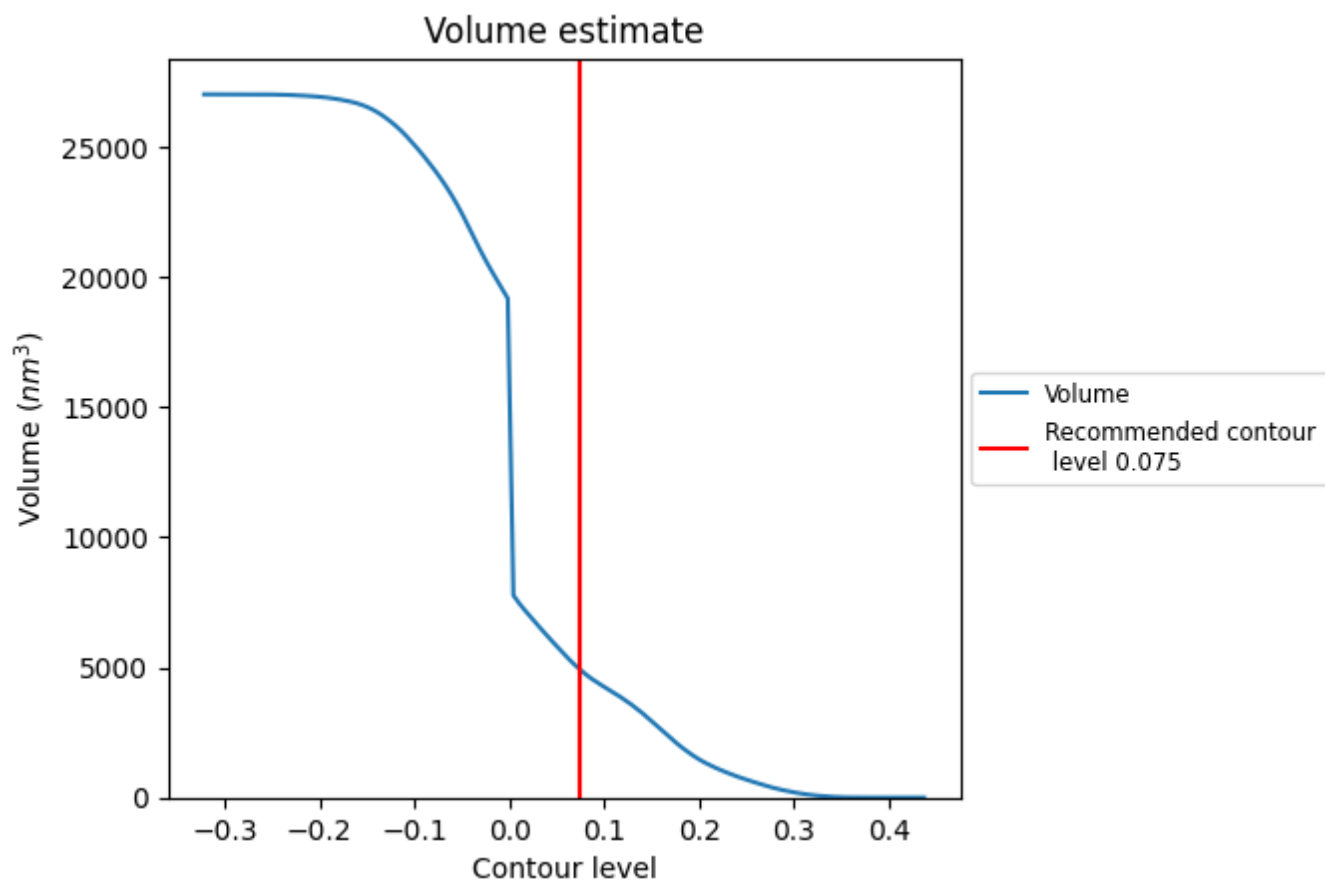
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

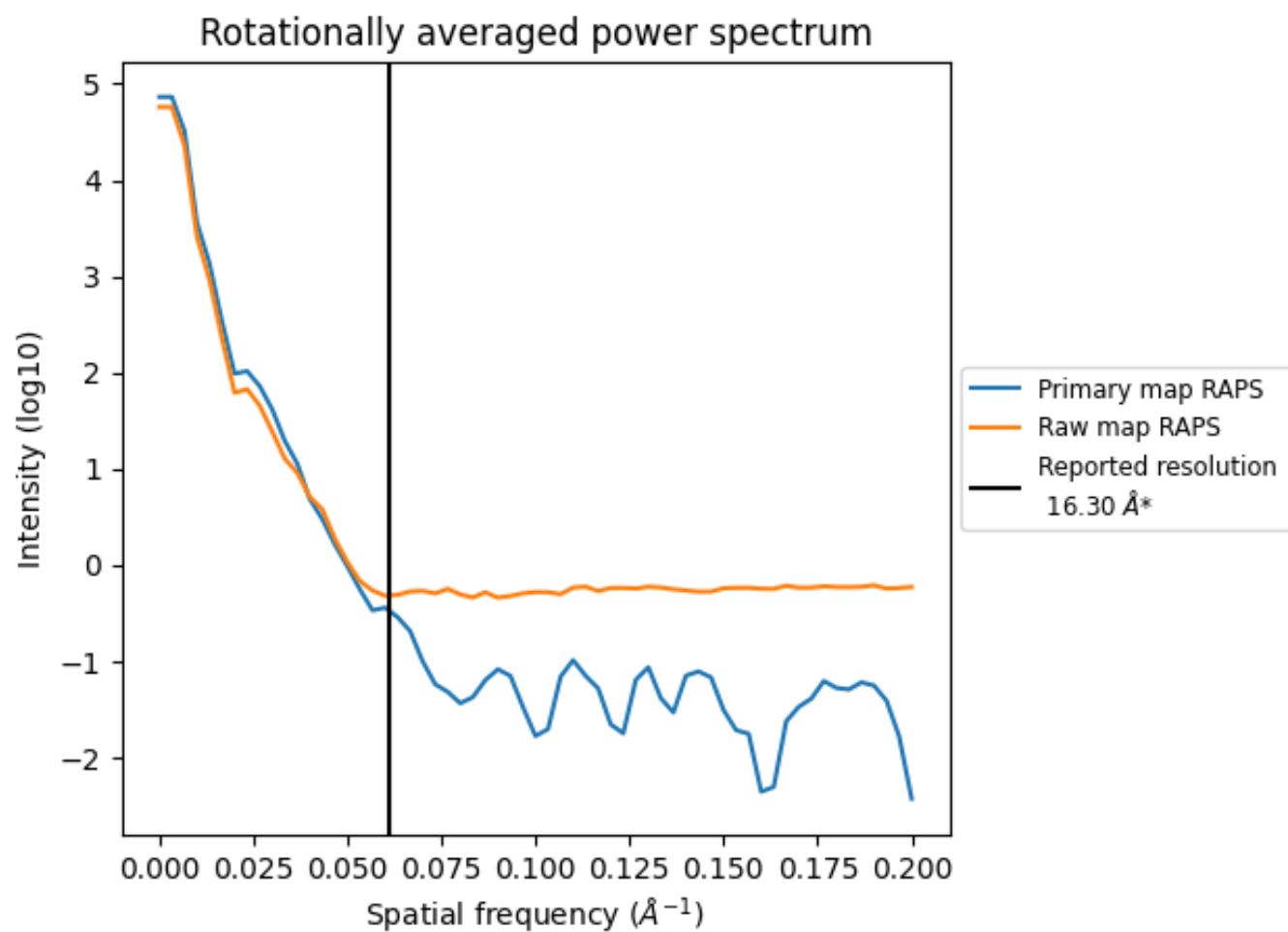
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 4900 nm³; this corresponds to an approximate mass of 4426 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](#)

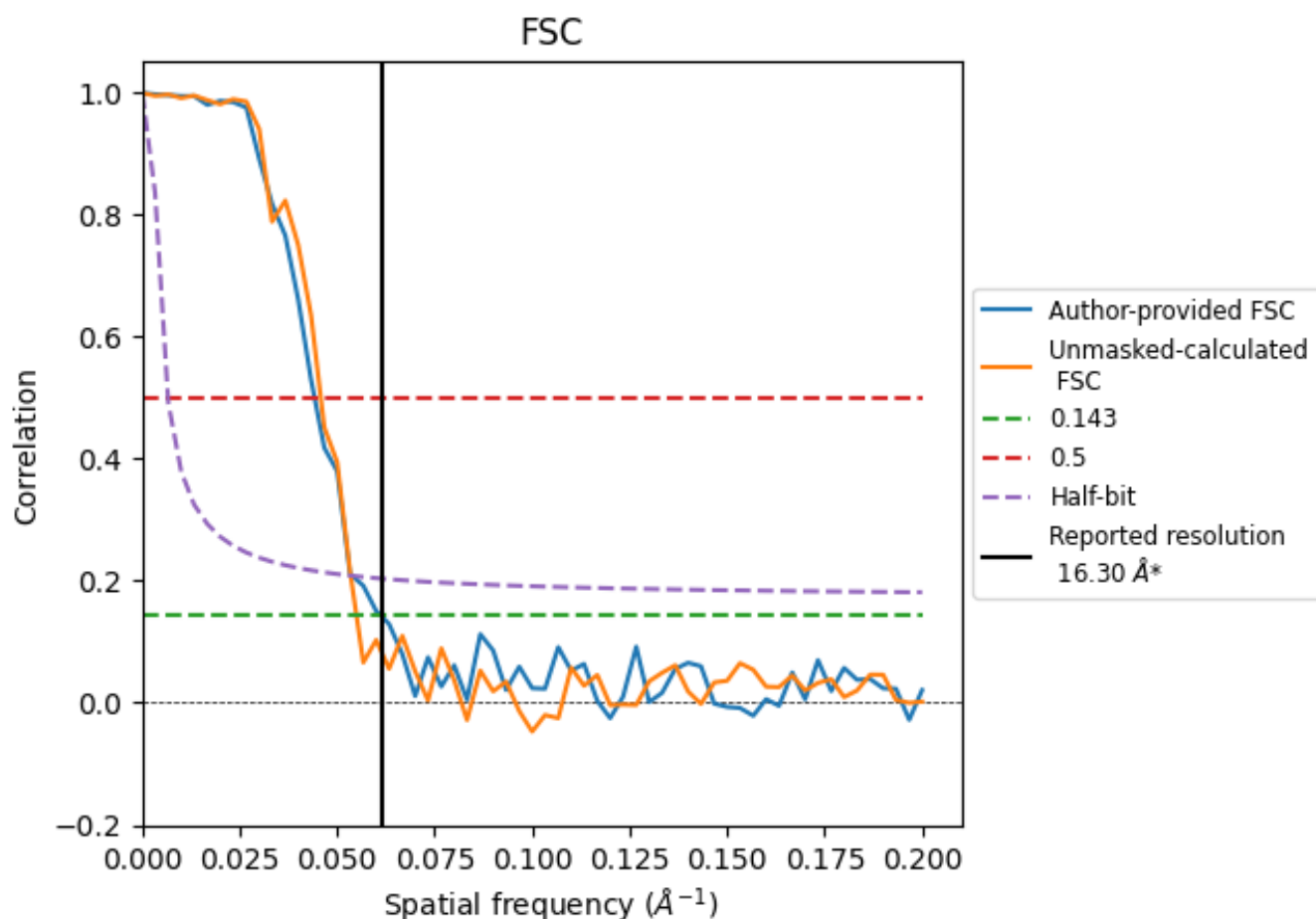


*Reported resolution corresponds to spatial frequency of 0.061 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.061 \AA^{-1}

8.2 Resolution estimates [i](#)

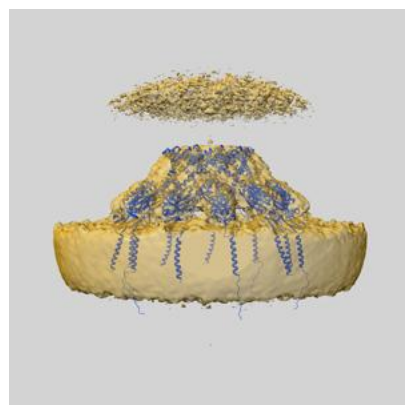
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	16.30	-	-
Author-provided FSC curve	16.34	22.62	18.42
Unmasked-calculated*	18.18	21.83	18.69

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 18.18 differs from the reported value 16.3 by more than 10 %

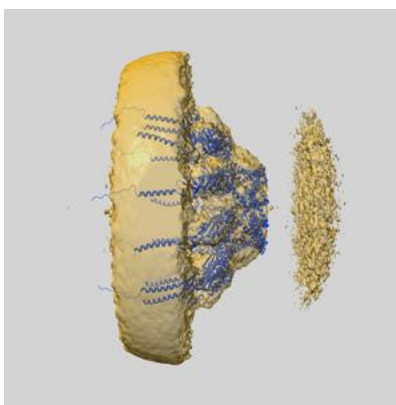
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-19459 and PDB model 8RRH. Per-residue inclusion information can be found in [section 3](#) on [page 5](#).

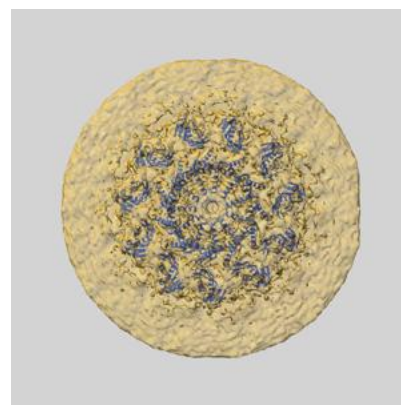
9.1 Map-model overlay [i](#)



X



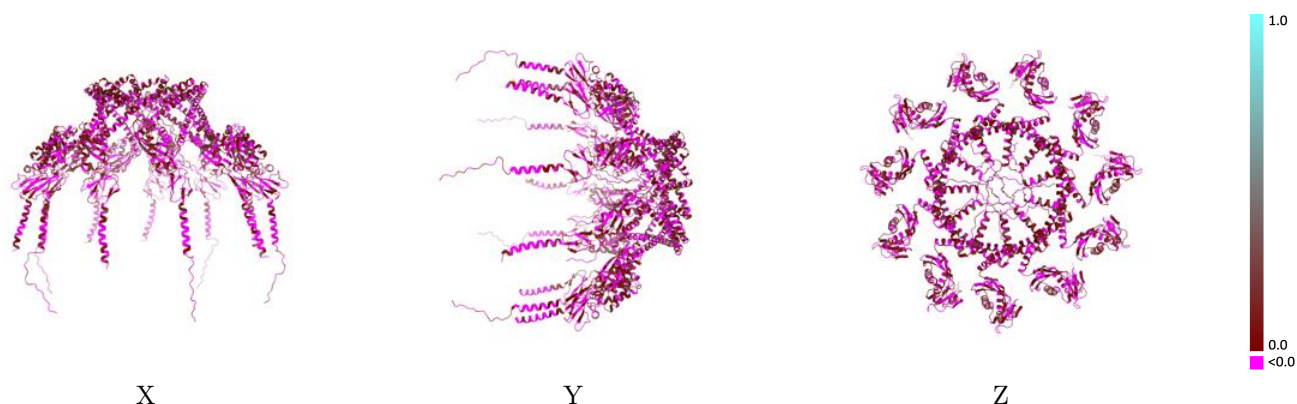
Y



Z

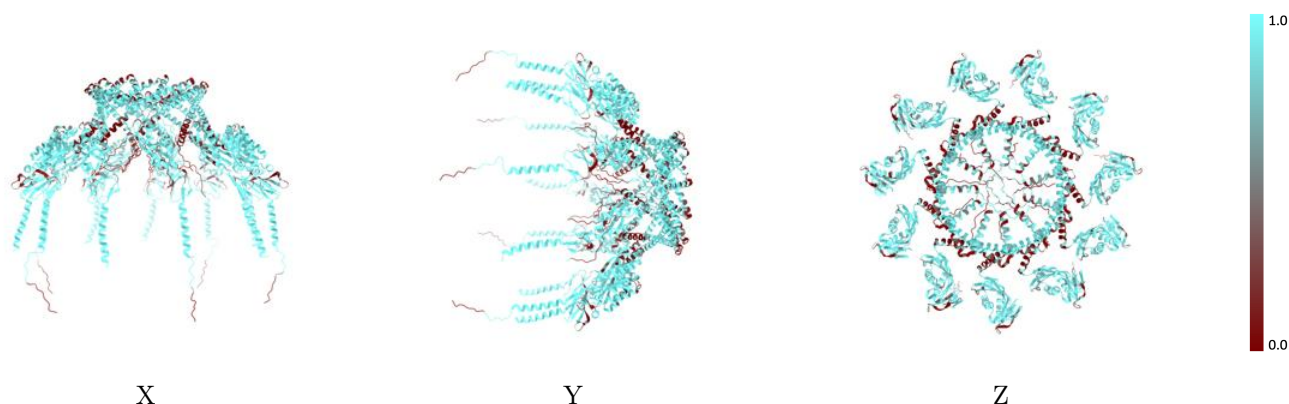
The images above show the 3D surface view of the map at the recommended contour level 0.075 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



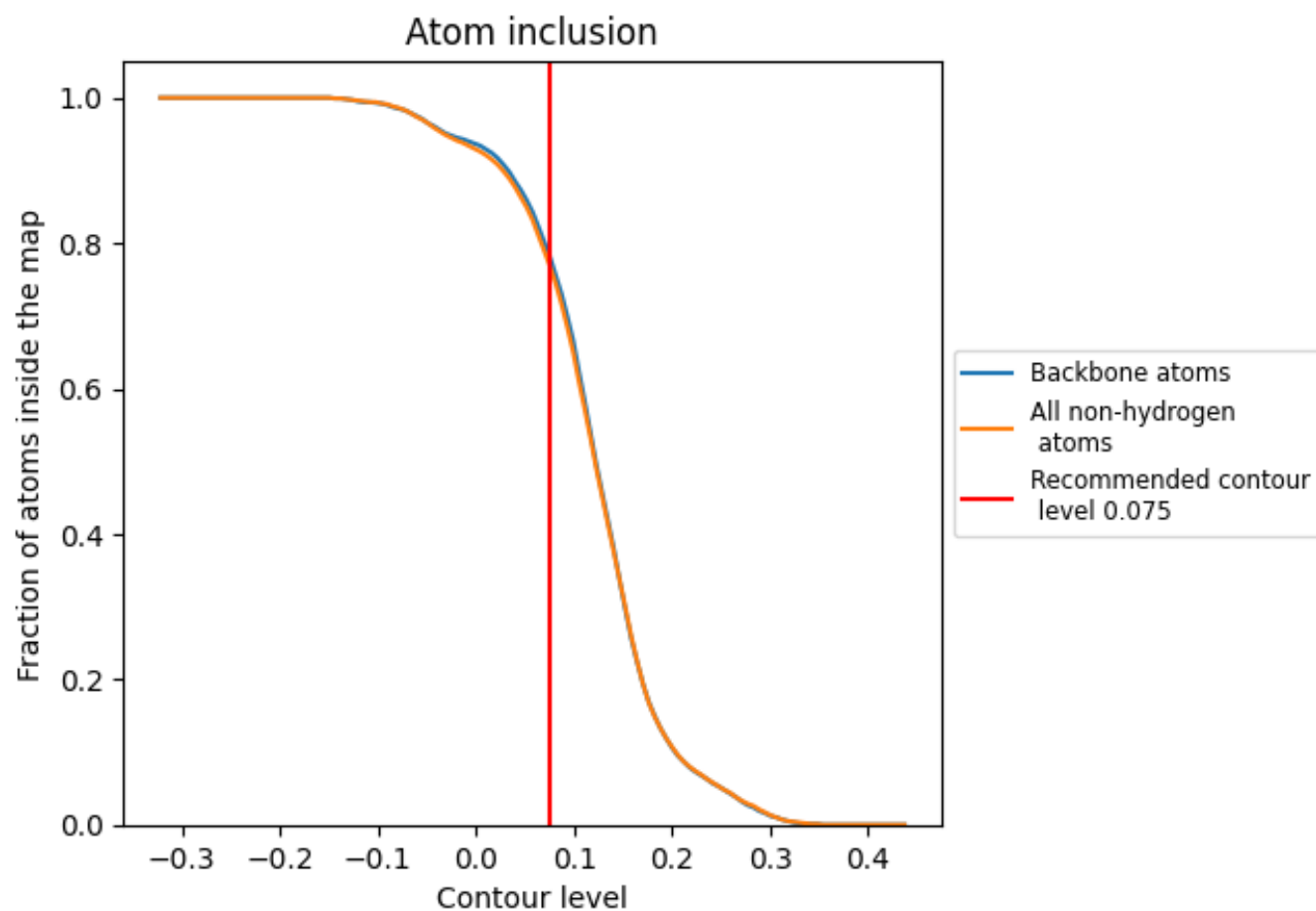
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.075).

9.4 Atom inclusion [i](#)



At the recommended contour level, 78% of all backbone atoms, 77% 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 (0.075) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.7700	<div></div> 0.0250
A	<div></div> 0.8140	<div></div> 0.0310
B	<div></div> 0.7280	<div></div> 0.0200
C	<div></div> 0.7950	<div></div> 0.0300
D	<div></div> 0.7410	<div></div> 0.0240
E	<div></div> 0.8210	<div></div> 0.0250
F	<div></div> 0.7490	<div></div> 0.0240
G	<div></div> 0.7970	<div></div> 0.0220
H	<div></div> 0.7260	<div></div> 0.0290
I	<div></div> 0.7920	<div></div> 0.0250
J	<div></div> 0.7280	<div></div> 0.0180
K	<div></div> 0.8030	<div></div> 0.0290

1.0

0.0

<0.0