Full wwPDB EM Validation Report ⓘ

Nov 8, 2022 – 01:22 PM JST

PDB ID	:	5ZVS
EMDB ID	:	EMD-6968
Title	:	Structure of RNA polymerase complex and genome within a dsRNA virus provides insights into the mechanisms of transcription and assembly
Authors	:	Liu, H.; Fang, Q.; Cheng, L.
Deposited on	:	2018-05-12
Resolution	:	3.80 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

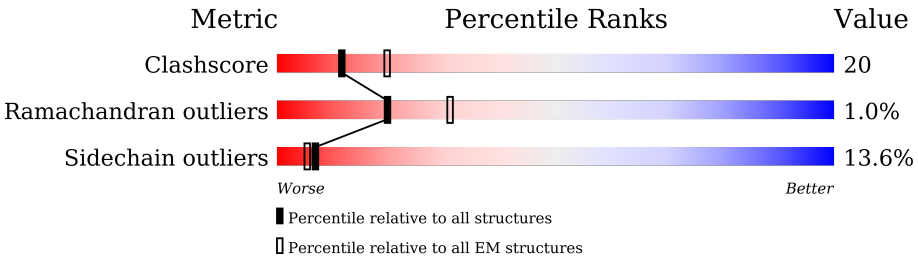
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

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 3.80 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	1214	60% 23% 5% 13%
1	B	1214	66% 26% • 5%
1	C	1214	61% 22% • 13%
1	D	1214	66% 25% • 5%
1	E	1214	58% 22% 5% 15%
1	F	1214	65% 26% • 5%
1	G	1214	60% 22% 5% 13%
1	H	1214	68% 23% • 5%

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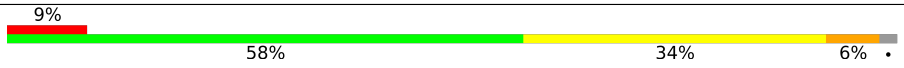
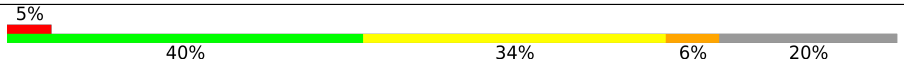
Mol	Chain	Length	Quality of chain
1	I	1214	
1	J	1214	
2	2	1274	
3	4	728	

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 99250 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 VP3.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1060	Total	C	N	O	S	0	0
			8190	5232	1400	1510	48		
1	B	1154	Total	C	N	O	S	0	0
			8839	5608	1525	1656	50		
1	D	1154	Total	C	N	O	S	0	0
			8838	5608	1525	1655	50		
1	C	1060	Total	C	N	O	S	0	0
			8190	5232	1400	1510	48		
1	E	1032	Total	C	N	O	S	0	0
			7973	5095	1363	1468	47		
1	F	1154	Total	C	N	O	S	0	0
			8839	5608	1525	1656	50		
1	G	1062	Total	C	N	O	S	0	0
			8205	5244	1402	1511	48		
1	H	1155	Total	C	N	O	S	0	0
			8847	5612	1527	1658	50		
1	I	1059	Total	C	N	O	S	0	0
			8184	5229	1399	1508	48		
1	J	1154	Total	C	N	O	S	0	0
			8839	5608	1525	1656	50		

- Molecule 2 is a protein called VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	2	1245	Total	C	N	O	S	0	0
			9771	6257	1693	1777	44		

- Molecule 3 is a protein called Putative core protein NTPase/VP5.

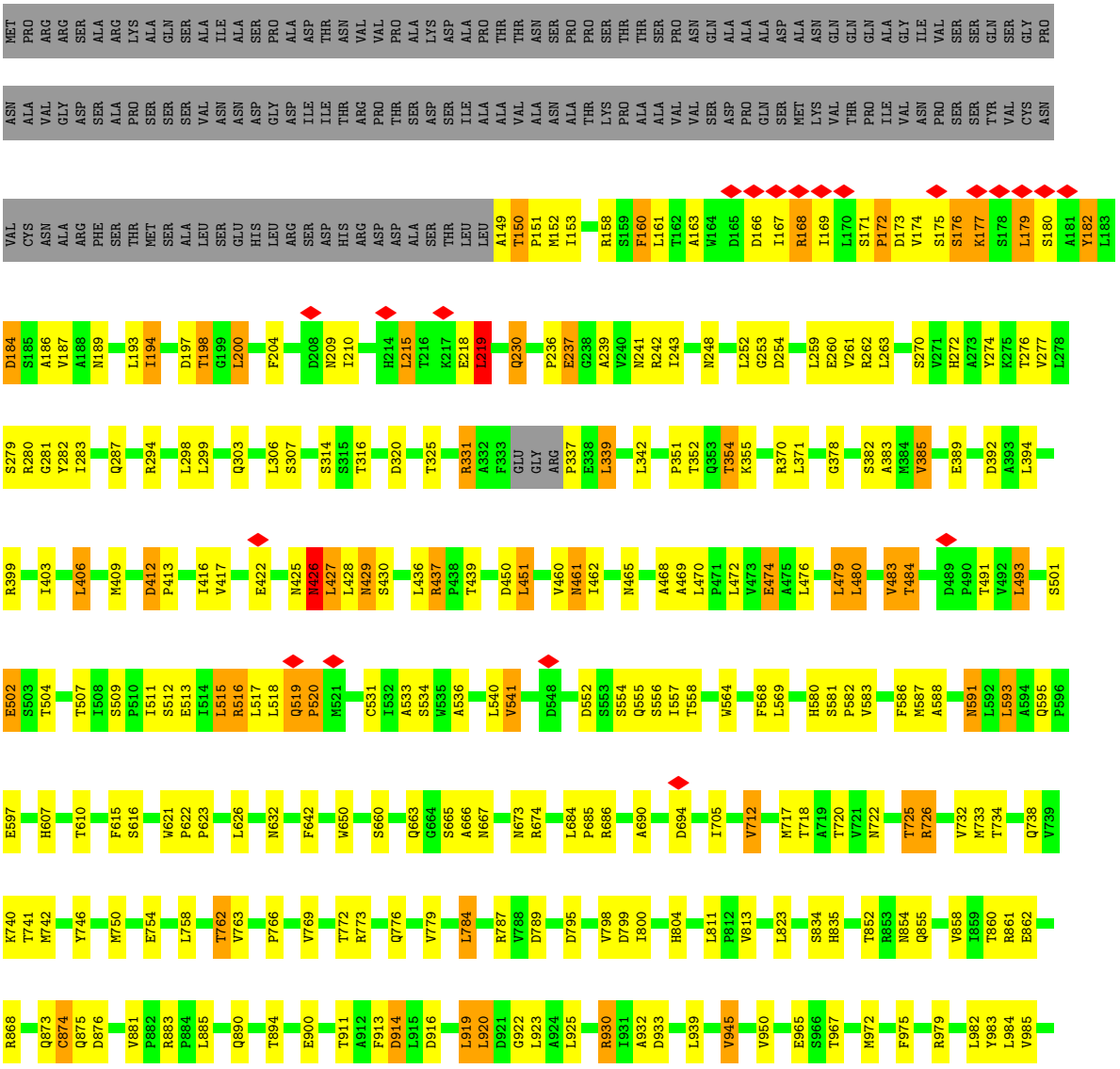
Mol	Chain	Residues	Atoms					AltConf	Trace
3	4	583	Total	C	N	O	S	0	0
			4535	2916	788	817	14		

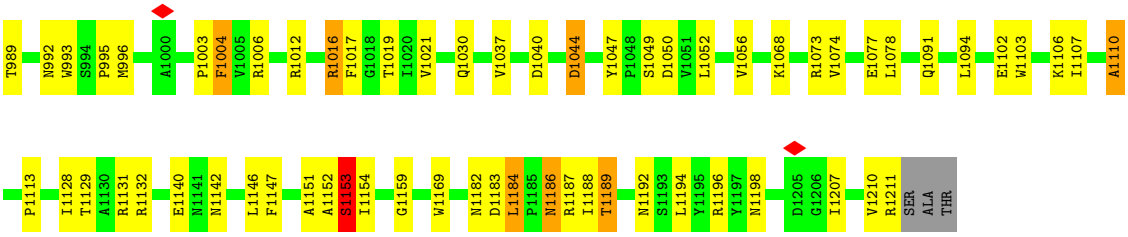
3 Residue-property plots (i)

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

- Molecule 1: VP3

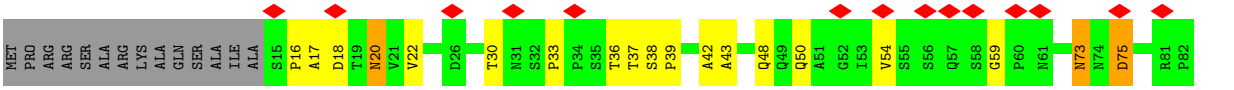
Chain A:

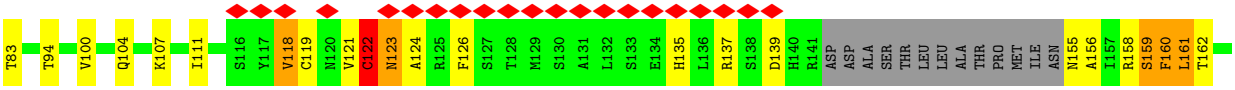


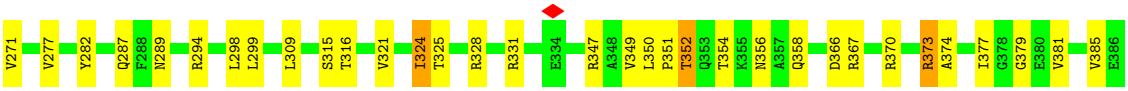


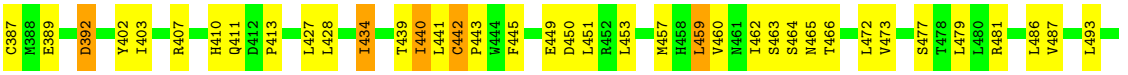
• Molecule 1: VP3

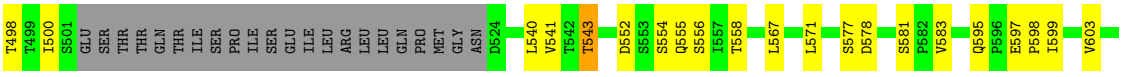
Chain B:

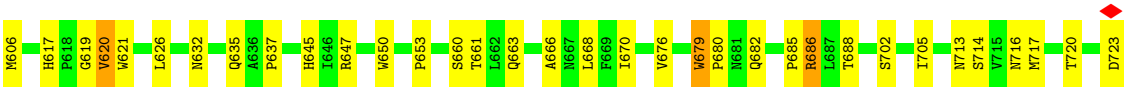


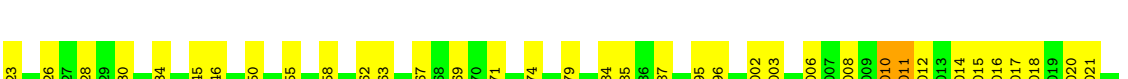


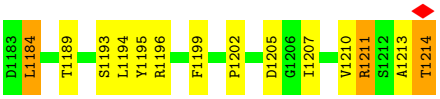






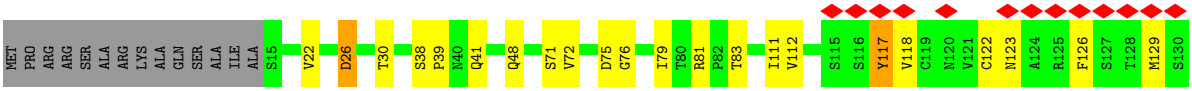


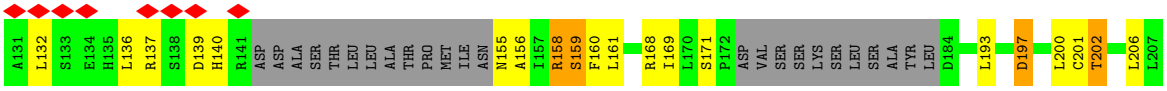


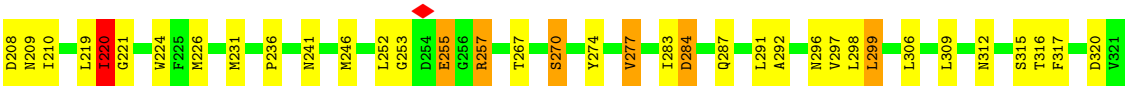


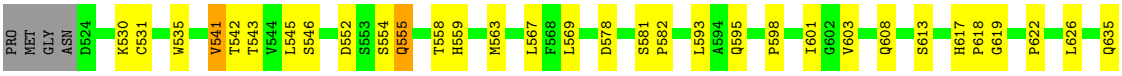
• Molecule 1: VP3

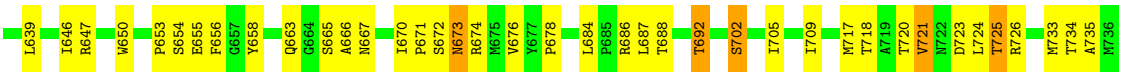
Chain D:

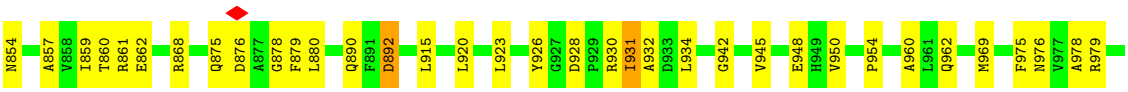


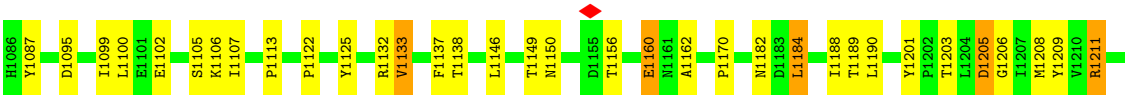


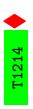






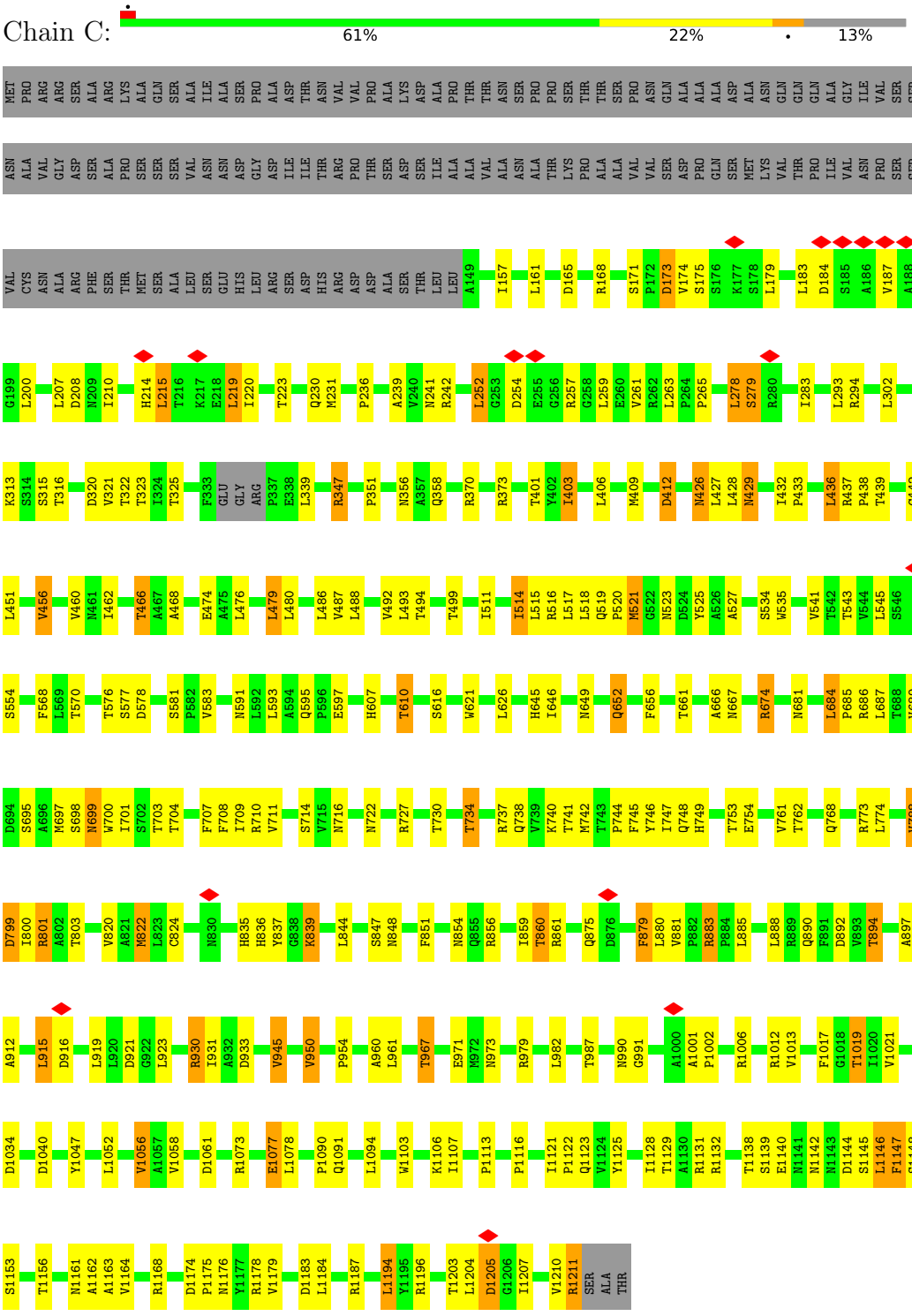






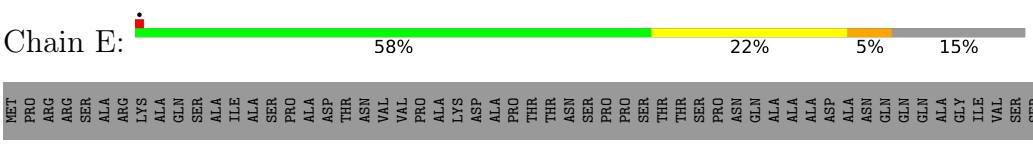
• Molecule 1: VP3

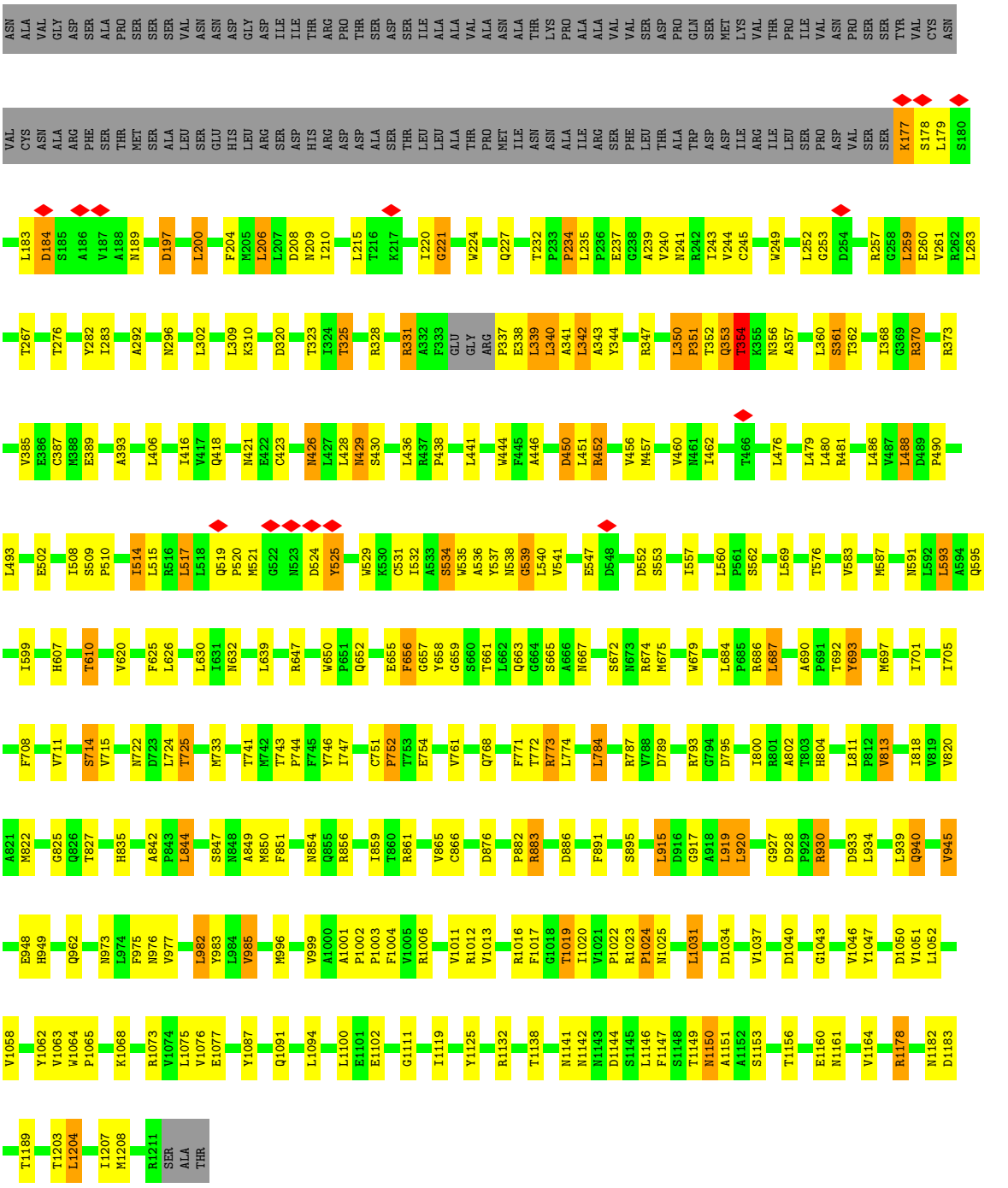
Chain C:



• Molecule 1: VP3

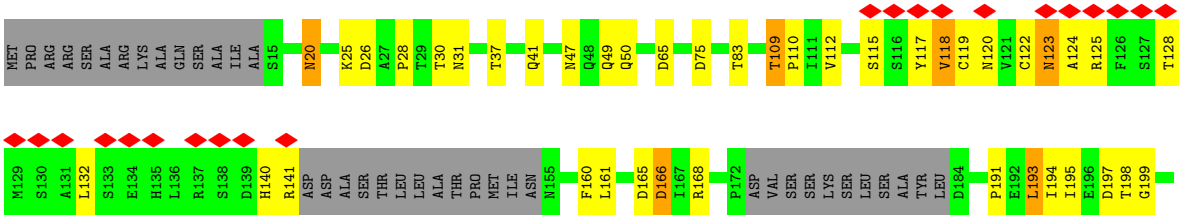
Chain E:

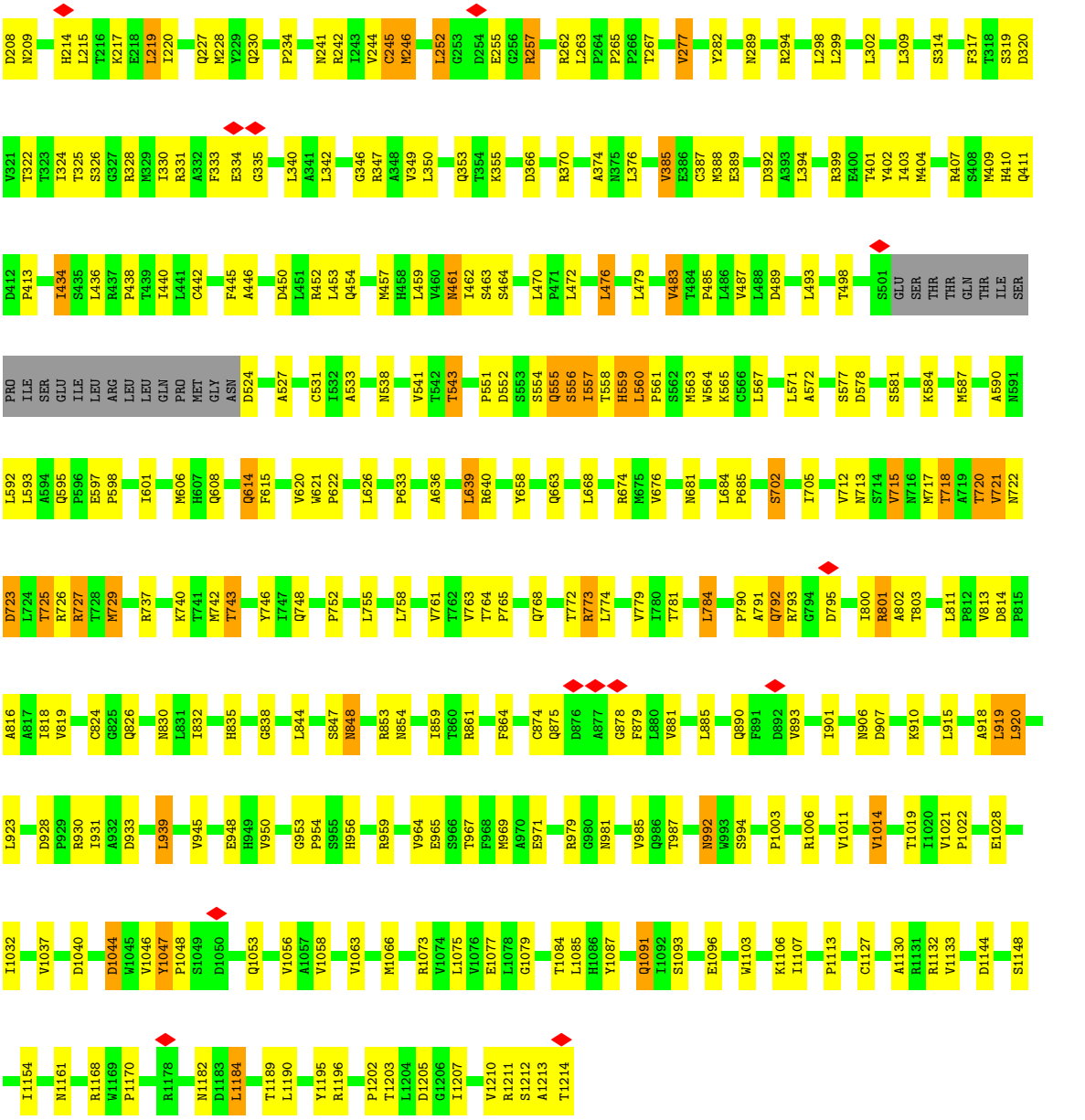




• Molecule 1: VP3

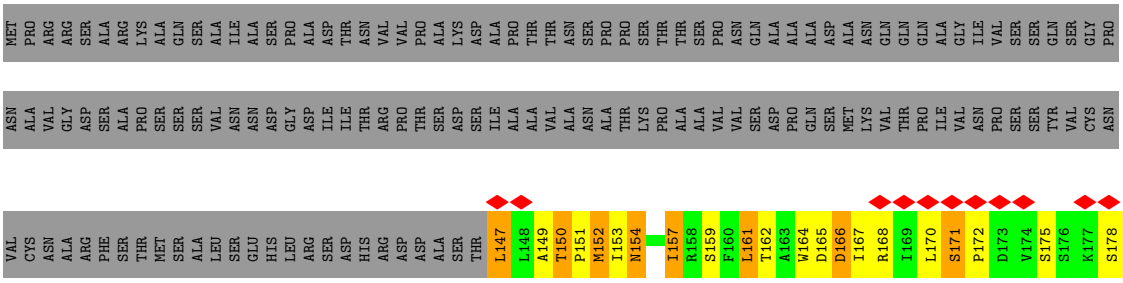
Chain F:

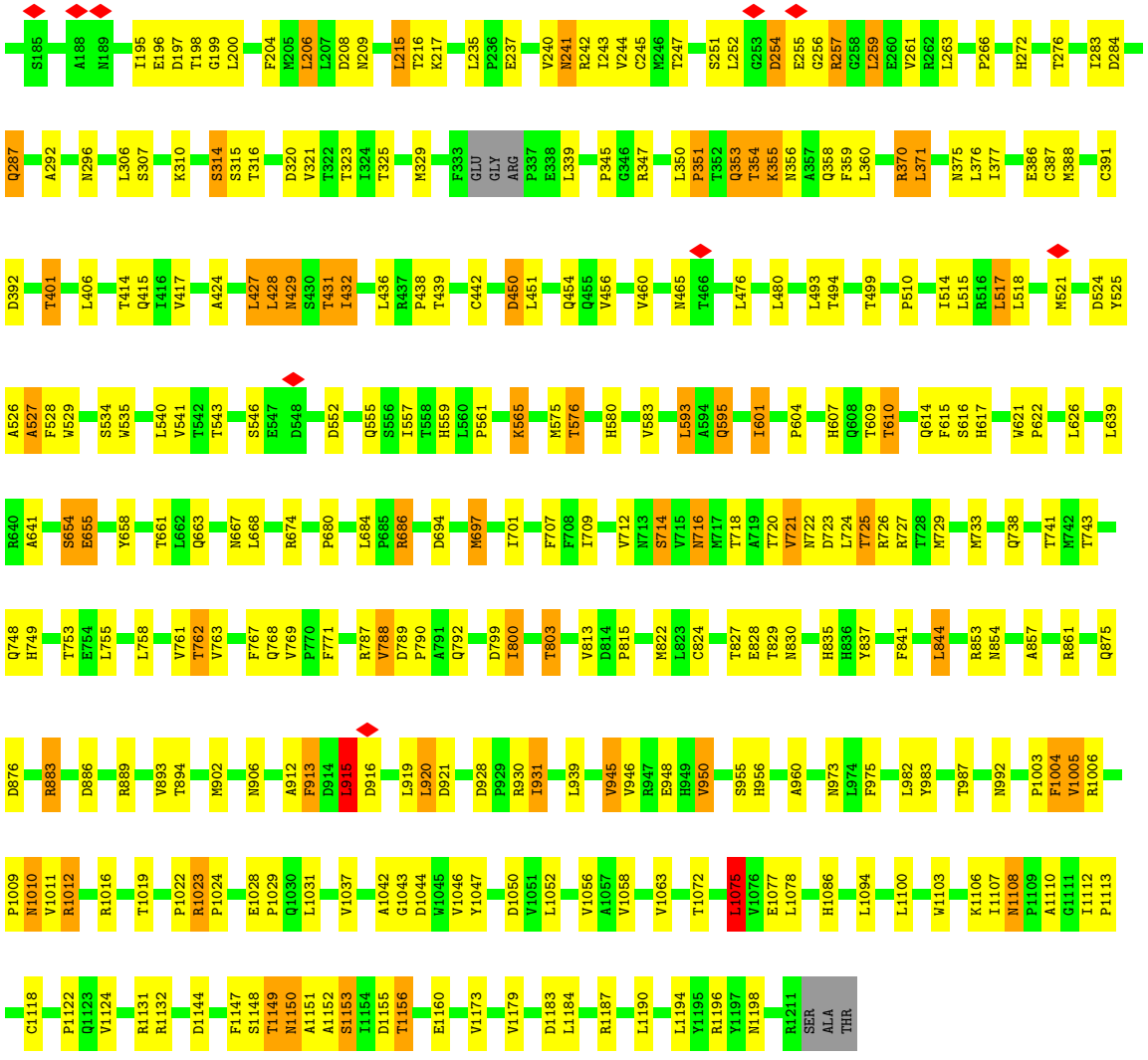




- Molecule 1: VP3

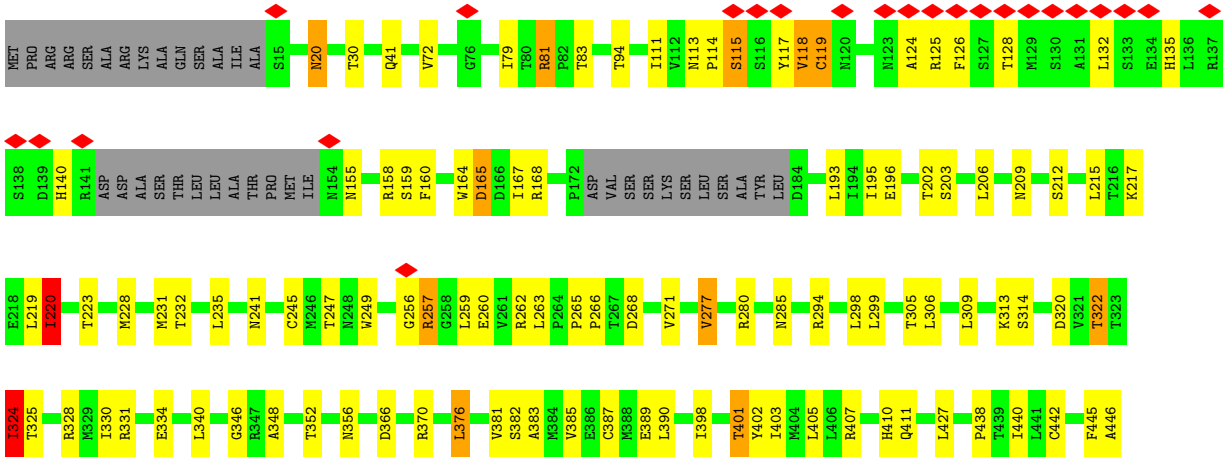
Chain G:

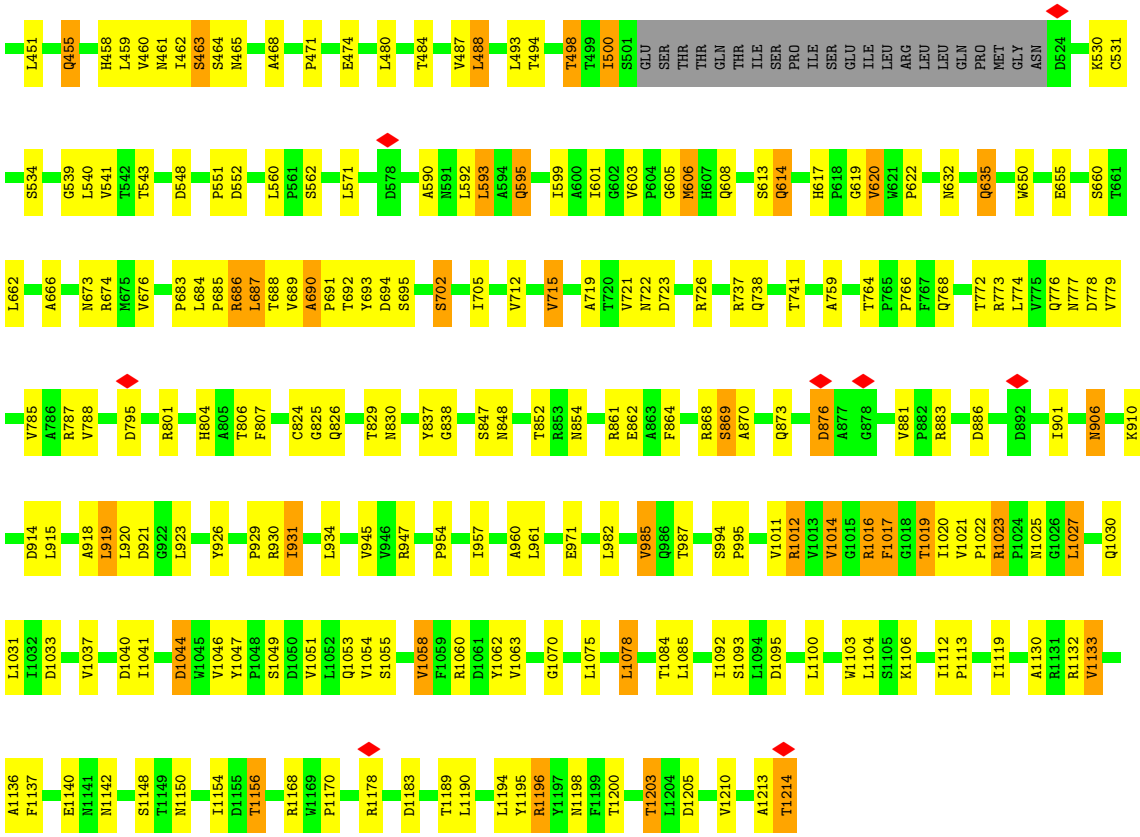




• Molecule 1: VP3

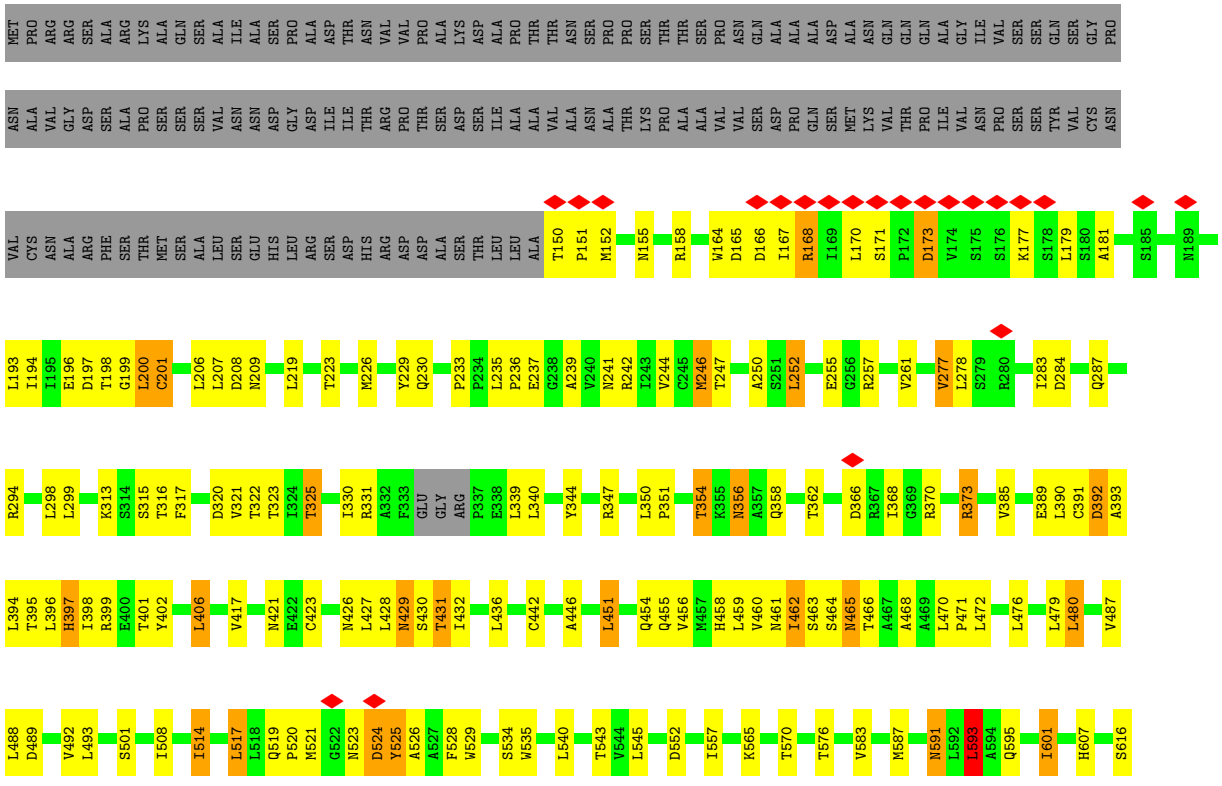
Chain H:

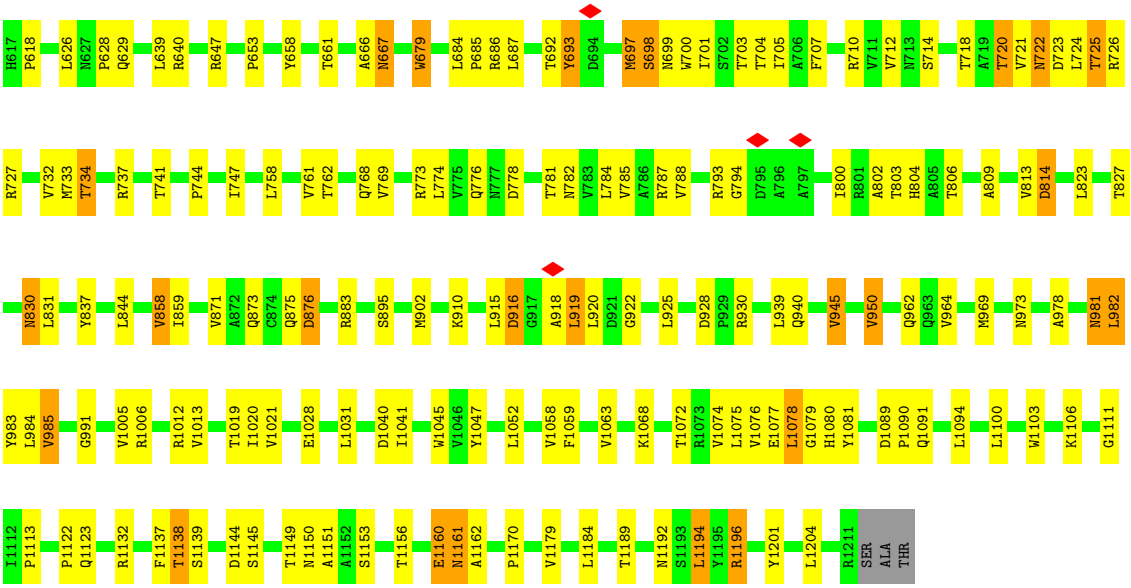




• Molecule 1: VP3

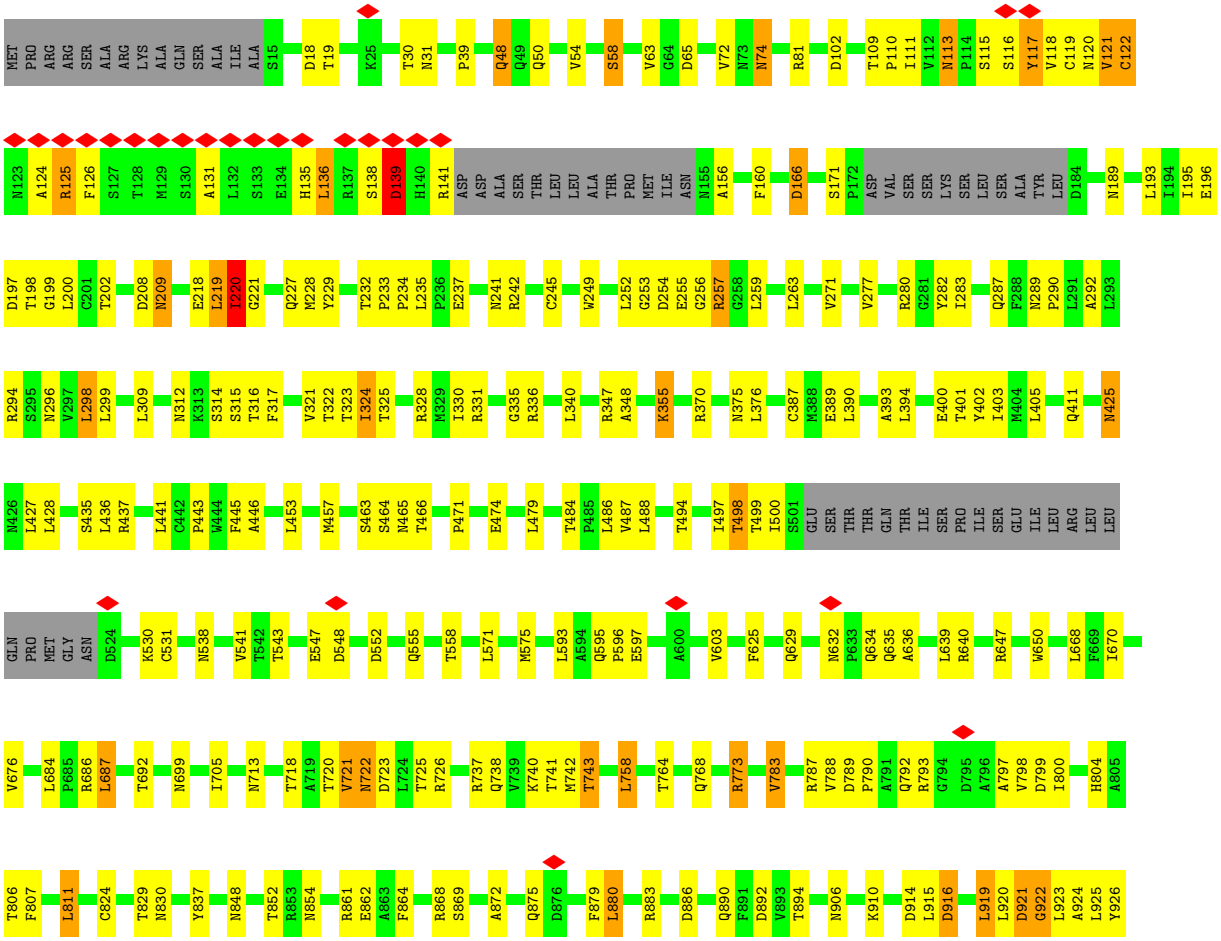
Chain I:

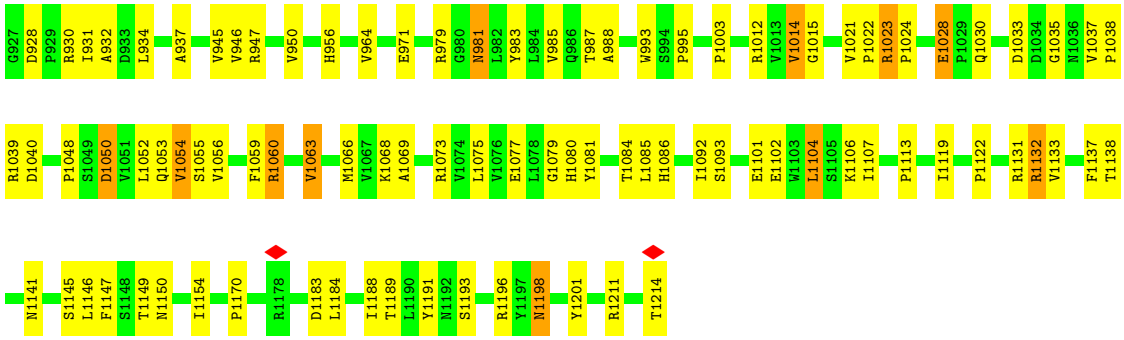




• Molecule 1: VP3

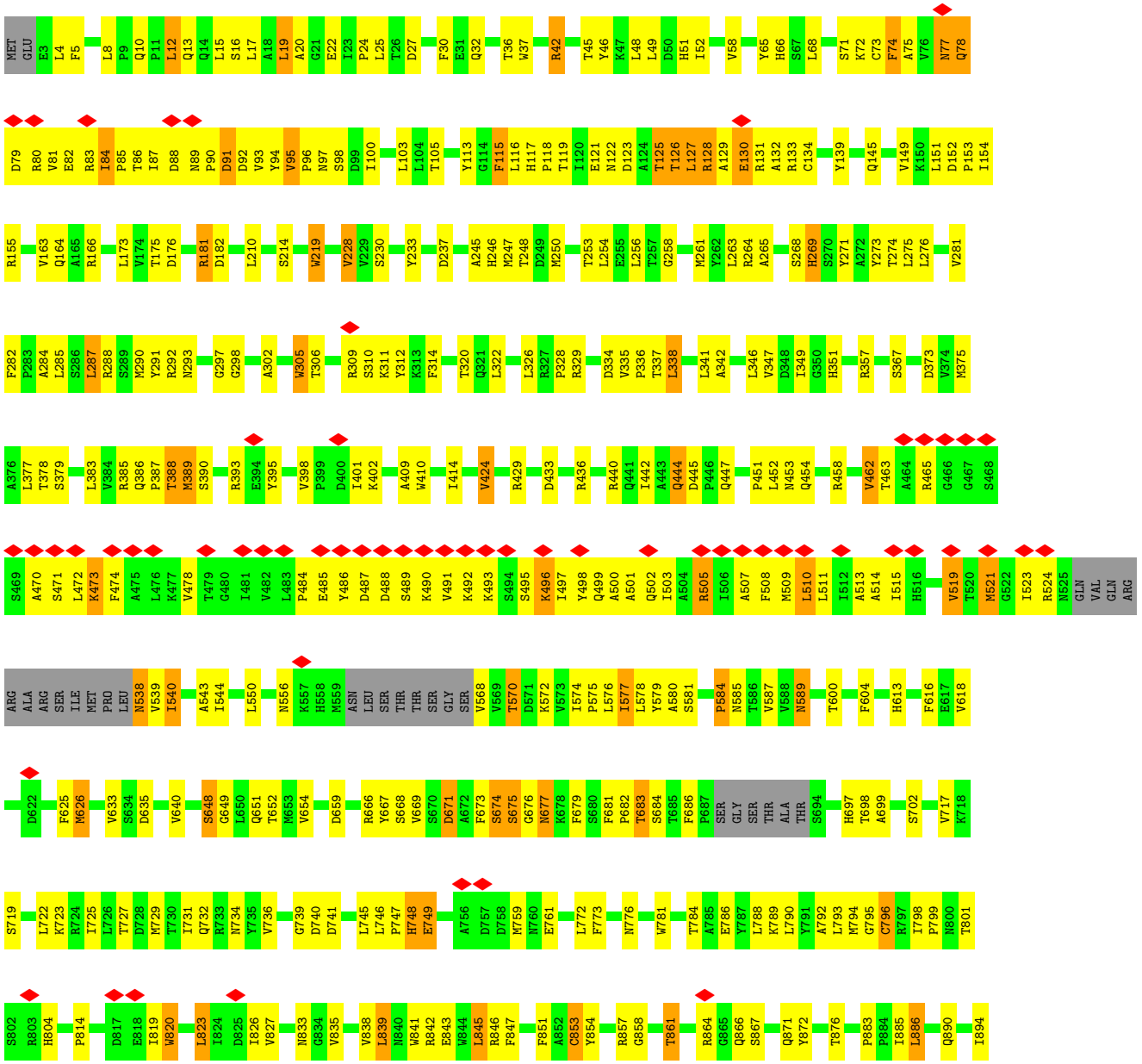
Chain J:

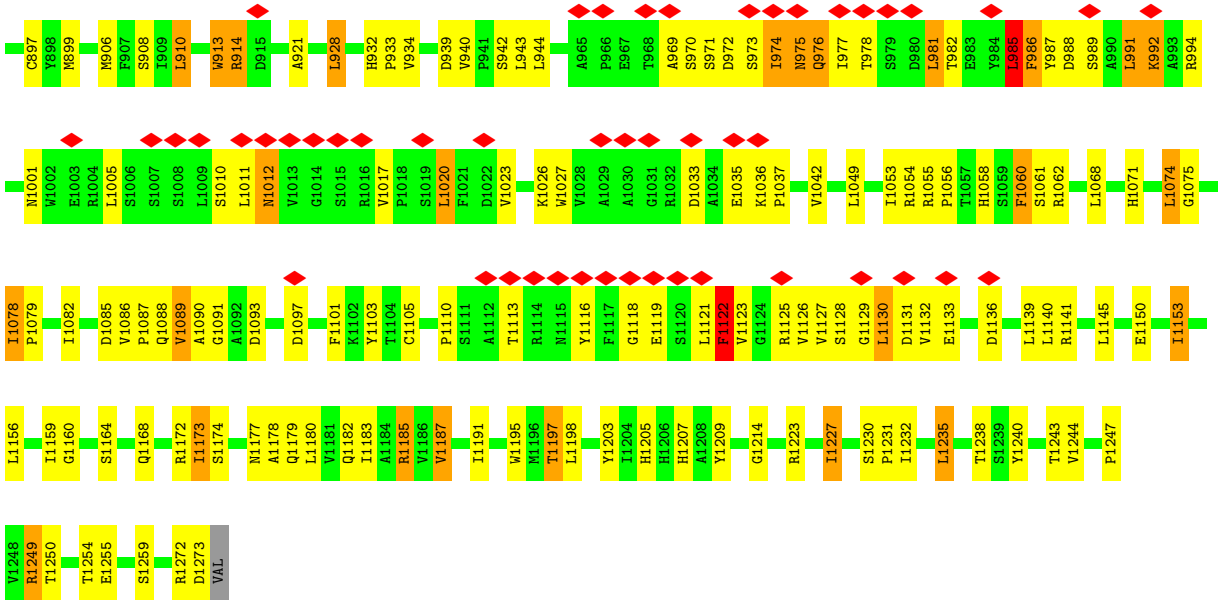




- Molecule 2: VP2

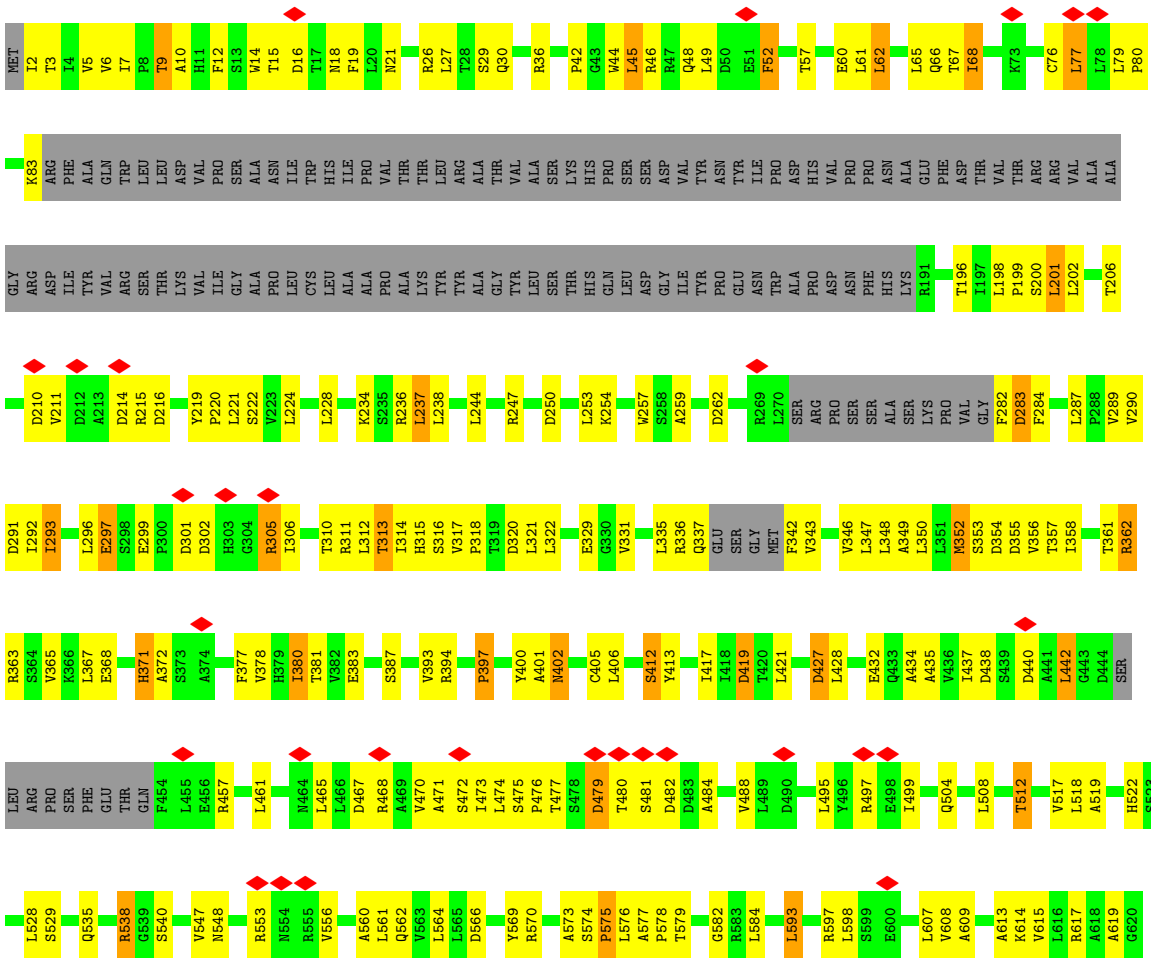
Chain 2:

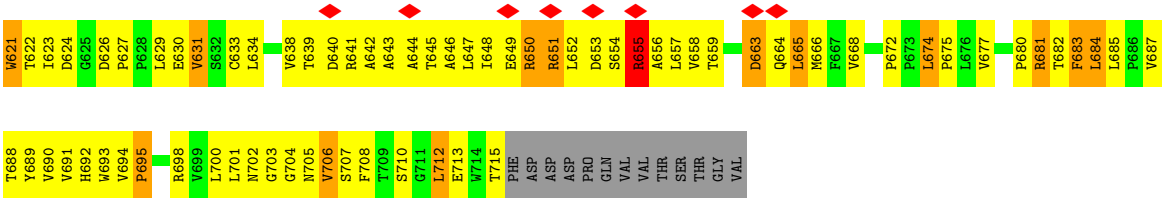




• Molecule 3: Putative core protein NTPase/VP5

Chain 4:




W621 T622 I623 D624 G625 D626 P627 P628 L629 E630 V631 S632 C633 L634 V638 T639 D640 R641 A642 A643 A644 T645 A646 L647 I648 E649 R650 R651 L652 D653 S654 R655 A656 L657 V658 T659 D663 Q664 L665 M666 F667 V668 P672 P673 L674 P675 L676 V677 P680 R681 T682 F683 L684 L685 P686 V687
T688 Y689 V690 V691 H692 W693 V694 P695 R698 V699 L700 L701 N702 G703 G704 N705 V706 S707 F708 T709 S710 G711 L712 E713 W714 T715 PHE ASP ASP ASP PRO GLN VAL VAL THR SER THR GLY VAL

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	41000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TECNAI ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	25	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	54.858	Depositor
Minimum map value	-26.854	Depositor
Average map value	0.739	Depositor
Map value standard deviation	4.089	Depositor
Recommended contour level	8.0	Depositor
Map size (Å)	838.8, 838.8, 838.8	wwPDB
Map dimensions	900, 900, 900	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.932, 0.932, 0.932	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	0.43	0/8402	0.59	8/11515 (0.1%)
1	B	0.41	0/9062	0.56	7/12422 (0.1%)
1	C	0.43	0/8402	0.56	3/11515 (0.0%)
1	D	0.42	0/9061	0.56	5/12422 (0.0%)
1	E	0.42	0/8180	0.57	4/11210 (0.0%)
1	F	0.42	0/9062	0.59	4/12422 (0.0%)
1	G	0.42	0/8417	0.57	4/11535 (0.0%)
1	H	0.44	0/9070	0.59	4/12433 (0.0%)
1	I	0.45	0/8396	0.58	4/11506 (0.0%)
1	J	0.44	0/9062	0.58	3/12422 (0.0%)
2	2	0.44	0/10051	0.62	6/13731 (0.0%)
3	4	0.39	0/4637	0.66	2/6343 (0.0%)
All	All	0.43	0/101802	0.58	54/139476 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	H	0	1
3	4	0	2
All	All	0	4

There are no bond length outliers.

All (54) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	559	HIS	N-CA-C	-9.16	86.28	111.00
2	2	749	GLU	N-CA-C	-8.56	87.88	111.00
1	H	593	LEU	CA-CB-CG	8.15	134.05	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	4	655	ARG	N-CA-C	-7.86	89.78	111.00
1	H	119	CYS	N-CA-C	-7.73	90.12	111.00
1	J	1014	VAL	C-N-CA	7.67	138.40	122.30
1	D	76	GLY	N-CA-C	7.45	131.71	113.10
1	E	350	LEU	CA-CB-CG	7.44	132.41	115.30
1	A	593	LEU	CA-CB-CG	7.19	131.83	115.30
3	4	442	LEU	CA-CB-CG	7.16	131.77	115.30
1	I	436	LEU	CA-CB-CG	7.14	131.73	115.30
2	2	985	LEU	CA-CB-CG	6.99	131.39	115.30
1	A	176	SER	N-CA-C	-6.99	92.14	111.00
1	B	1075	LEU	CA-CB-CG	6.93	131.24	115.30
1	F	123	ASN	N-CA-C	6.77	129.28	111.00
1	I	593	LEU	CA-CB-CG	6.72	130.76	115.30
1	F	953	GLY	C-N-CD	-6.63	106.01	120.60
1	H	376	LEU	CA-CB-CG	6.40	130.03	115.30
1	I	920	LEU	CA-CB-CG	6.35	129.91	115.30
2	2	326	LEU	CA-CB-CG	6.28	129.74	115.30
1	B	811	LEU	CA-CB-CG	6.26	129.70	115.30
1	B	123	ASN	N-CA-C	6.20	127.74	111.00
1	A	1004	PHE	N-CA-C	6.18	127.69	111.00
2	2	1086	VAL	C-N-CD	6.17	141.37	128.40
1	J	687	LEU	CA-CB-CG	6.17	129.49	115.30
1	C	215	LEU	CA-CB-CG	6.14	129.41	115.30
1	I	774	LEU	CA-CB-CG	5.96	129.00	115.30
1	G	915	LEU	CA-CB-CG	5.86	128.79	115.30
1	G	215	LEU	CA-CB-CG	5.74	128.50	115.30
1	A	219	LEU	CA-CB-CG	5.72	128.45	115.30
1	C	915	LEU	CA-CB-CG	5.61	128.21	115.30
1	A	426	ASN	N-CA-C	5.58	126.06	111.00
1	H	115	SER	N-CA-C	5.56	126.00	111.00
1	A	215	LEU	CA-CB-CG	5.54	128.04	115.30
1	C	219	LEU	CA-CB-CG	5.52	128.00	115.30
1	B	122	CYS	N-CA-C	5.51	125.88	111.00
1	F	556	SER	N-CA-C	5.41	125.61	111.00
1	G	1078	LEU	CA-CB-CG	5.41	127.74	115.30
1	D	1184	LEU	CA-CB-CG	-5.40	102.87	115.30
1	D	159	SER	N-CA-C	5.38	125.53	111.00
2	2	1089	VAL	N-CA-C	5.29	125.30	111.00
1	D	158	ARG	N-CA-C	5.29	125.28	111.00
1	D	931	ILE	CB-CA-C	-5.28	101.04	111.60
1	E	342	LEU	N-CA-C	-5.26	96.78	111.00
1	E	436	LEU	CA-CB-CG	5.24	127.34	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	1024	PRO	N-CA-C	5.17	125.53	112.10
1	A	436	LEU	CA-CB-CG	5.16	127.18	115.30
1	B	465	ASN	N-CA-C	-5.16	97.06	111.00
1	A	1184	LEU	N-CA-C	5.16	124.93	111.00
1	G	1075	LEU	CA-CB-CG	5.12	127.08	115.30
1	J	811	LEU	CA-CB-CG	5.08	126.98	115.30
2	2	151	LEU	CA-CB-CG	5.06	126.94	115.30
1	B	878	GLY	N-CA-C	5.04	125.70	113.10
1	B	379	GLY	N-CA-C	-5.02	100.55	113.10

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	4	655	ARG	Mainchain,Sidechain
1	A	426	ASN	Mainchain
1	H	1023	ARG	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	8190	0	8167	336	0
1	B	8839	0	8761	307	0
1	C	8190	0	8168	280	0
1	D	8838	0	8762	310	0
1	E	7973	0	7952	276	0
1	F	8839	0	8762	326	0
1	G	8205	0	8189	296	0
1	H	8847	0	8768	276	0
1	I	8184	0	8163	322	0
1	J	8839	0	8762	288	0
2	2	9771	0	9677	679	0
3	4	4535	0	4670	431	0
All	All	99250	0	98801	3916	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 20.

All (3916) 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)
2:2:827:VAL:HG22	2:2:851:PHE:CE2	1.09	1.62
1:F:558:THR:HB	1:F:720:THR:CG2	1.12	1.59
1:B:457:MET:CE	1:B:920:LEU:HG	1.06	1.53
2:2:84:ILE:CG2	2:2:93:VAL:HG23	1.39	1.52
2:2:827:VAL:CG2	2:2:851:PHE:HE2	1.15	1.52
3:4:643:ALA:CB	3:4:683:PHE:HE1	1.23	1.51
1:G:195:ILE:CD1	1:G:257:ARG:NH1	1.70	1.51
1:G:195:ILE:CD1	1:G:257:ARG:CZ	1.90	1.48
1:F:558:THR:CB	1:F:720:THR:HG21	1.00	1.47
2:2:128:ARG:HB3	2:2:133:ARG:NH1	1.16	1.47
2:2:129:ALA:CB	2:2:132:ALA:HB3	1.47	1.44
1:I:465:ASN:CB	1:J:500:ILE:O	1.65	1.44
1:D:626:LEU:HD11	1:D:776:GLN:CG	1.49	1.43
3:4:621:TRP:NE1	3:4:702:ASN:HA	1.29	1.42
1:C:432:ILE:CD1	1:C:433:PRO:HD2	1.50	1.41
1:A:150:THR:HB	1:A:151:PRO:CD	1.51	1.41
1:G:195:ILE:HD11	1:G:257:ARG:NH1	1.26	1.41
1:I:166:ASP:OD1	1:I:525:TYR:CE2	1.72	1.41
3:4:282:PHE:CA	3:4:682:THR:HG21	1.47	1.41
1:A:1016:ARG:HE	1:B:1211:ARG:NH2	1.01	1.40
1:C:432:ILE:HD11	1:C:437:ARG:NH1	1.30	1.40
1:B:457:MET:HE2	1:B:920:LEU:CG	1.52	1.40
1:E:282:TYR:CD2	1:F:830:ASN:OD1	1.74	1.39
3:4:368:GLU:CD	3:4:372:ALA:HB3	1.41	1.38
2:2:129:ALA:O	2:2:131:ARG:N	1.57	1.37
3:4:633:CYS:SG	3:4:657:LEU:HD21	1.63	1.37
1:B:457:MET:CE	1:B:920:LEU:CG	2.02	1.36
3:4:368:GLU:CD	3:4:372:ALA:CB	1.92	1.36
1:E:423:CYS:SG	1:E:850:MET:HE3	1.64	1.36
3:4:689:TYR:OH	3:4:692:HIS:CE1	1.77	1.36
3:4:282:PHE:N	3:4:682:THR:HG21	1.35	1.36
2:2:129:ALA:HB3	2:2:132:ALA:CB	1.54	1.36
1:C:432:ILE:HD12	1:C:433:PRO:CD	1.54	1.35
1:E:983:TYR:CE2	1:E:1003:PRO:HD2	1.57	1.35
1:F:614:GLN:CB	1:G:431:THR:HG23	1.56	1.35
1:A:354:THR:HG22	1:A:1152:ALA:O	1.23	1.34
3:4:57:THR:HG22	3:4:60:GLU:CB	1.55	1.33
3:4:621:TRP:HE1	3:4:702:ASN:CA	1.37	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:643:ALA:CB	3:4:683:PHE:CE1	2.11	1.32
2:2:176:ASP:OD1	2:2:842:ARG:NH1	1.64	1.31
1:H:461:ASN:ND2	1:H:918:ALA:CB	1.94	1.31
3:4:282:PHE:N	3:4:682:THR:CG2	1.92	1.31
2:2:462:VAL:HG23	2:2:497:ILE:CD1	1.62	1.30
3:4:57:THR:CG2	3:4:60:GLU:HB2	1.61	1.29
1:C:432:ILE:CD1	1:C:437:ARG:NH1	1.96	1.29
1:G:167:ILE:HG22	1:G:525:TYR:CG	1.65	1.29
1:I:164:TRP:CE3	1:I:167:ILE:HD13	1.68	1.28
3:4:282:PHE:N	3:4:682:THR:CB	1.97	1.28
2:2:126:THR:OG1	2:2:127:LEU:HD23	1.19	1.28
2:2:507:ALA:CB	2:2:511:LEU:HG	1.62	1.28
1:I:465:ASN:HB2	1:J:500:ILE:O	1.14	1.28
3:4:621:TRP:NE1	3:4:702:ASN:CA	1.92	1.27
1:D:71:SER:O	1:D:79:ILE:HG22	1.30	1.27
1:E:490:PRO:HG3	1:E:525:TYR:OH	1.25	1.27
3:4:57:THR:CG2	3:4:60:GLU:CB	2.12	1.27
2:2:497:ILE:HD12	2:2:498:TYR:N	1.47	1.25
2:2:508:PHE:O	2:2:509:MET:CG	1.84	1.25
1:E:1050:ASP:CG	1:F:1213:ALA:HB3	1.57	1.25
1:A:476:LEU:HD23	1:A:533:ALA:CB	1.65	1.25
3:4:643:ALA:HB1	3:4:683:PHE:CE1	1.71	1.25
3:4:621:TRP:CD1	3:4:703:GLY:N	2.06	1.24
1:F:614:GLN:CB	1:G:431:THR:CG2	2.13	1.24
2:2:129:ALA:CB	2:2:132:ALA:CB	2.13	1.24
3:4:368:GLU:OE2	3:4:372:ALA:HB3	1.06	1.23
2:2:80:ARG:NE	2:2:128:ARG:HH21	1.32	1.23
3:4:654:SER:O	3:4:672:PRO:CB	1.86	1.23
2:2:89:ASN:OD1	2:2:90:PRO:HD2	1.34	1.23
3:4:654:SER:O	3:4:672:PRO:HB2	1.31	1.23
1:F:558:THR:CB	1:F:720:THR:CG2	1.82	1.23
2:2:128:ARG:CB	2:2:133:ARG:HH12	1.52	1.22
1:E:1050:ASP:OD1	1:F:1213:ALA:HB3	1.07	1.22
1:I:466:THR:HB	1:I:809:ALA:CB	1.69	1.22
3:4:609:ALA:HB2	3:4:657:LEU:CD2	1.70	1.22
1:D:160:PHE:CE1	1:D:1208:MET:HE1	1.74	1.21
1:A:1016:ARG:NE	1:B:1211:ARG:NH2	1.86	1.21
2:2:507:ALA:HB3	2:2:511:LEU:CG	1.71	1.21
3:4:657:LEU:CD1	3:4:668:VAL:HG13	1.71	1.21
3:4:689:TYR:OH	3:4:692:HIS:HE1	1.08	1.20
1:A:422:GLU:OE1	1:A:660:SER:OG	1.57	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:875:GLN:OE1	1:J:930:ARG:HD2	1.42	1.20
1:H:331:ARG:NH1	1:H:1196:ARG:NE	1.90	1.20
2:2:84:ILE:CG2	2:2:93:VAL:CG2	2.18	1.20
1:F:614:GLN:CG	1:G:431:THR:HG23	1.72	1.19
1:D:626:LEU:CD1	1:D:776:GLN:HG3	1.70	1.19
1:F:614:GLN:CG	1:G:431:THR:CG2	2.21	1.19
3:4:656:ALA:H	3:4:672:PRO:HD2	1.07	1.18
1:H:461:ASN:ND2	1:H:918:ALA:HB1	1.55	1.17
2:2:246:HIS:O	2:2:843:GLU:HG2	1.39	1.17
1:G:195:ILE:CD1	1:G:257:ARG:NE	2.04	1.17
1:D:618:PRO:CG	1:D:779:VAL:CG1	2.22	1.17
3:4:655:ARG:CB	3:4:672:PRO:O	1.91	1.17
3:4:655:ARG:HB2	3:4:672:PRO:O	1.45	1.16
2:2:507:ALA:O	2:2:510:LEU:O	1.62	1.16
2:2:985:LEU:HD12	2:2:986:PHE:CE2	1.79	1.16
1:J:221:GLY:H	1:J:228:MET:HE2	1.05	1.16
3:4:401:ALA:HB3	3:4:674:LEU:CD1	1.74	1.16
3:4:648:ILE:CG2	3:4:649:GLU:HG2	1.76	1.15
1:A:150:THR:HB	1:A:151:PRO:HD3	1.22	1.15
1:A:174:VAL:CG2	1:A:900:GLU:O	1.94	1.15
1:B:220:ILE:O	1:B:350:LEU:HD11	1.44	1.15
1:G:195:ILE:HD12	1:G:257:ARG:CZ	1.62	1.15
3:4:633:CYS:SG	3:4:657:LEU:CD2	2.35	1.15
3:4:651:ARG:HG2	3:4:713:GLU:HG3	1.18	1.15
1:F:464:SER:OG	1:F:800:ILE:HG23	1.44	1.15
1:D:665:SER:CB	1:D:672:SER:O	1.95	1.14
1:F:122:CYS:SG	1:F:140:HIS:CD2	2.40	1.14
2:2:84:ILE:HG21	2:2:93:VAL:HG23	1.27	1.14
1:A:174:VAL:CG2	1:A:900:GLU:HG2	1.77	1.13
1:E:282:TYR:CG	1:F:830:ASN:OD1	2.01	1.13
2:2:502:GLN:OE1	2:2:505:ARG:NE	1.81	1.13
3:4:621:TRP:CE2	3:4:702:ASN:HA	1.81	1.13
1:H:1019:THR:CG2	1:I:350:LEU:O	1.97	1.13
1:A:177:LYS:CG	1:A:180:SER:HB2	1.79	1.13
1:A:168:ARG:NH2	3:4:367:LEU:HA	1.62	1.13
1:D:665:SER:HB3	1:D:672:SER:O	1.49	1.13
1:G:930:ARG:CZ	1:H:689:VAL:HB	1.80	1.12
3:4:284:PHE:HB2	3:4:682:THR:HA	1.25	1.12
1:E:891:PHE:CE1	1:F:1214:THR:OG1	1.99	1.12
1:G:1006:ARG:NH1	1:G:1077:GLU:OE2	1.81	1.12
1:C:1122:PRO:HG2	1:C:1149:THR:CG2	1.78	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:465:ASN:CG	1:J:500:ILE:O	1.88	1.12
3:4:657:LEU:CD1	3:4:668:VAL:CG1	2.27	1.12
1:I:465:ASN:HB2	1:J:500:ILE:C	1.69	1.11
1:C:697:MET:HE1	1:C:744:PRO:CA	1.79	1.11
1:E:1006:ARG:NH1	1:E:1077:GLU:OE1	1.82	1.11
1:G:195:ILE:HD11	1:G:257:ARG:CZ	1.63	1.11
1:A:166:ASP:HB2	1:A:280:ARG:HD2	1.15	1.11
1:E:423:CYS:SG	1:E:850:MET:CE	2.39	1.11
1:F:119:CYS:O	1:F:122:CYS:O	1.67	1.11
2:2:985:LEU:CD1	2:2:986:PHE:CE2	2.33	1.11
1:D:876:ASP:OD2	1:D:892:ASP:OD1	1.66	1.11
1:H:195:ILE:HD13	1:H:256:GLY:HA2	1.33	1.11
2:2:128:ARG:CB	2:2:133:ARG:NH1	2.12	1.10
1:H:331:ARG:HH12	1:H:1196:ARG:CZ	1.63	1.10
2:2:97:ASN:OD1	2:2:230:SER:HB3	1.50	1.10
3:4:643:ALA:HB2	3:4:683:PHE:HE1	0.97	1.10
1:A:174:VAL:HG22	1:A:900:GLU:CG	1.81	1.10
1:E:1050:ASP:OD1	1:F:1213:ALA:CB	1.98	1.10
2:2:126:THR:OG1	2:2:127:LEU:CD2	2.00	1.10
2:2:507:ALA:CB	2:2:511:LEU:CG	2.24	1.10
1:D:618:PRO:HB3	1:D:779:VAL:HG11	1.31	1.09
1:D:656:PHE:O	1:D:674:ARG:HG3	1.51	1.09
2:2:507:ALA:CB	2:2:511:LEU:CD2	2.29	1.09
3:4:62:LEU:HB2	3:4:224:LEU:HD11	1.23	1.09
1:A:174:VAL:CG2	1:A:900:GLU:CG	2.31	1.09
1:F:314:SER:HB3	1:F:1196:ARG:HB3	1.25	1.09
1:I:466:THR:CB	1:I:809:ALA:CB	2.29	1.09
2:2:746:LEU:HB3	2:2:747:PRO:HD2	1.26	1.09
2:2:86:THR:CB	2:2:89:ASN:O	1.99	1.09
3:4:538:ARG:HD3	3:4:576:LEU:HD23	1.26	1.09
1:D:393:ALA:HB1	1:D:1184:LEU:HD21	1.31	1.08
1:F:558:THR:HB	1:F:720:THR:HG23	1.28	1.08
1:F:324:ILE:HG23	1:F:325:THR:HG23	1.35	1.08
3:4:401:ALA:HB3	3:4:674:LEU:HD13	1.09	1.08
1:A:166:ASP:HB2	1:A:280:ARG:CD	1.81	1.08
1:J:126:PHE:CE2	1:J:135:HIS:HB2	1.89	1.08
3:4:57:THR:HG22	3:4:60:GLU:HB3	1.14	1.08
3:4:655:ARG:HE	3:4:674:LEU:HG	1.05	1.08
1:I:466:THR:HB	1:I:809:ALA:CA	1.84	1.08
1:I:679:TRP:CZ2	1:I:697:MET:HE1	1.89	1.07
1:A:425:ASN:O	1:A:427:LEU:CD2	2.01	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:324:ILE:HG23	1:J:325:THR:HG23	1.36	1.07
1:A:150:THR:CB	1:A:151:PRO:CD	2.33	1.07
1:C:432:ILE:CG1	1:C:437:ARG:HH12	1.65	1.07
1:G:167:ILE:HG22	1:G:525:TYR:CB	1.83	1.07
2:2:84:ILE:HG23	2:2:93:VAL:HG23	1.09	1.07
3:4:651:ARG:HG2	3:4:713:GLU:CG	1.83	1.07
1:C:518:LEU:HD21	1:C:820:VAL:CG2	1.83	1.07
1:I:466:THR:HB	1:I:809:ALA:HB2	1.29	1.07
2:2:1136:ASP:OD1	2:2:1182:GLN:NE2	1.87	1.07
3:4:657:LEU:HD12	3:4:668:VAL:HG13	1.29	1.07
1:F:614:GLN:HB2	1:G:431:THR:HG23	1.12	1.06
3:4:643:ALA:HB2	3:4:683:PHE:CE1	1.81	1.06
1:H:331:ARG:NH1	1:H:1196:ARG:CD	2.19	1.06
1:J:197:ASP:HA	1:J:253:GLY:HA3	1.33	1.06
1:D:618:PRO:CG	1:D:779:VAL:HG13	1.82	1.06
2:2:508:PHE:O	2:2:509:MET:HG3	0.90	1.06
3:4:368:GLU:OE2	3:4:372:ALA:CB	2.00	1.06
1:B:626:LEU:CD1	1:B:776:GLN:OE1	2.04	1.06
2:2:78:GLN:HB2	2:2:83:ARG:NH2	1.70	1.06
2:2:387:PRO:HB2	2:2:671:ASP:HB3	1.33	1.06
1:F:557:ILE:HD12	1:F:593:LEU:HD21	1.36	1.06
1:H:599:ILE:HG22	1:H:608:GLN:OE1	1.52	1.06
1:H:1019:THR:HG23	1:I:350:LEU:O	1.54	1.06
1:C:432:ILE:HG13	1:C:437:ARG:HH12	1.19	1.05
2:2:292:ARG:NH1	2:2:328:PRO:HB2	1.70	1.05
1:C:697:MET:CE	1:C:744:PRO:HA	1.84	1.05
1:F:614:GLN:HG2	1:G:431:THR:HG22	1.30	1.05
1:H:331:ARG:HH12	1:H:1196:ARG:NE	1.49	1.05
1:I:164:TRP:HE3	1:I:167:ILE:CD1	1.68	1.05
2:2:474:PHE:HB3	2:2:484:PRO:HG3	1.38	1.05
2:2:827:VAL:CG2	2:2:851:PHE:CE2	2.04	1.05
1:E:239:ALA:O	1:E:1149:THR:O	1.75	1.05
1:G:171:SER:OG	1:G:172:PRO:HD3	1.57	1.05
1:A:476:LEU:CD2	1:A:533:ALA:HB1	1.87	1.04
1:F:558:THR:OG1	1:F:720:THR:HG21	1.55	1.04
1:H:690:ALA:CB	1:H:691:PRO:HD3	1.84	1.04
3:4:657:LEU:HD22	3:4:712:LEU:HD23	1.38	1.04
1:A:150:THR:HB	1:A:151:PRO:HD2	1.36	1.04
1:A:174:VAL:HG22	1:A:900:GLU:HG3	1.39	1.04
1:C:697:MET:CE	1:C:744:PRO:CA	2.35	1.04
1:J:921:ASP:O	1:J:923:LEU:N	1.91	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:30:PHE:CE1	2:2:853:CYS:HB2	1.91	1.04
1:H:119:CYS:SG	1:H:132:LEU:HD12	1.97	1.04
2:2:1082:ILE:HD13	2:2:1088:GLN:OE1	1.56	1.04
1:C:697:MET:HE1	1:C:744:PRO:HA	1.04	1.04
1:E:655:GLU:HG2	1:E:674:ARG:HD2	1.38	1.04
1:F:790:PRO:HA	1:F:793:ARG:HH21	1.17	1.04
3:4:57:THR:HG23	3:4:60:GLU:H	1.12	1.04
1:B:119:CYS:HB3	1:B:124:ALA:H	1.20	1.03
1:E:490:PRO:CG	1:E:525:TYR:OH	2.04	1.03
1:G:195:ILE:HD12	1:G:257:ARG:NH1	1.57	1.03
1:J:220:ILE:HB	1:J:228:MET:HE1	1.35	1.03
1:B:257:ARG:HB3	1:B:257:ARG:HH11	1.21	1.03
2:2:80:ARG:CZ	2:2:128:ARG:HH21	1.69	1.03
1:A:1050:ASP:OD2	1:B:1214:THR:HG22	1.59	1.03
1:D:656:PHE:C	1:D:674:ARG:NH1	2.11	1.03
1:F:723:ASP:OD2	1:F:727:ARG:NH2	1.91	1.03
2:2:80:ARG:CZ	2:2:128:ARG:NH2	2.20	1.03
1:D:618:PRO:CB	1:D:779:VAL:HG11	1.88	1.03
1:G:526:ALA:O	1:G:528:PHE:N	1.92	1.03
1:J:324:ILE:HD12	1:J:325:THR:H	1.22	1.03
2:2:1126:VAL:HG11	2:2:1132:VAL:HG22	1.37	1.03
1:C:684:LEU:CD1	1:C:685:PRO:HD2	1.89	1.03
3:4:538:ARG:CD	3:4:576:LEU:HD23	1.88	1.03
1:C:1006:ARG:NH1	1:C:1077:GLU:OE2	1.91	1.02
1:H:690:ALA:HB3	1:H:691:PRO:CD	1.87	1.02
1:J:117:TYR:HB3	1:J:125:ARG:HG3	1.39	1.02
3:4:62:LEU:CB	3:4:224:LEU:HD11	1.87	1.02
1:A:171:SER:OG	1:A:172:PRO:HD3	1.57	1.02
2:2:1127:VAL:CG1	2:2:1130:LEU:HD22	1.88	1.02
3:4:297:GLU:CB	3:4:306:ILE:HD11	1.89	1.02
1:A:174:VAL:HG23	1:A:900:GLU:O	1.58	1.02
1:G:983:TYR:CE2	1:G:1003:PRO:HD2	1.95	1.02
1:D:656:PHE:O	1:D:674:ARG:NH1	1.90	1.02
2:2:77:ASN:HD22	2:2:78:GLN:N	1.55	1.02
2:2:1127:VAL:HG12	2:2:1130:LEU:HD22	1.39	1.02
3:4:316:SER:OG	3:4:354:ASP:HB3	1.57	1.02
1:B:227:GLN:OE1	1:B:229:TYR:CE1	2.12	1.01
2:2:84:ILE:HG21	2:2:93:VAL:CG2	1.86	1.01
1:F:791:ALA:C	1:F:792:GLN:NE2	2.13	1.01
3:4:368:GLU:CD	3:4:372:ALA:HB2	1.78	1.01
1:F:614:GLN:HB2	1:G:431:THR:CG2	1.81	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:247:MET:O	2:2:839:LEU:CD1	2.07	1.01
1:G:166:ASP:O	1:G:170:LEU:CD2	2.08	1.01
2:2:986:PHE:CZ	2:2:1027:TRP:NE1	2.28	1.01
1:A:425:ASN:O	1:A:427:LEU:HD21	1.59	1.01
1:D:626:LEU:HD11	1:D:776:GLN:HG2	1.43	1.01
1:I:200:LEU:HD23	1:I:200:LEU:H	1.19	1.01
2:2:462:VAL:HG23	2:2:497:ILE:HD13	1.05	1.01
1:F:555:GLN:HE22	1:G:835:HIS:CG	1.79	1.00
1:H:331:ARG:HH11	1:H:1196:ARG:CD	1.73	1.00
1:F:122:CYS:HB2	1:F:140:HIS:NE2	1.76	1.00
1:I:166:ASP:OD1	1:I:525:TYR:HE2	1.44	1.00
1:D:160:PHE:CE1	1:D:1208:MET:CE	2.44	1.00
1:F:790:PRO:CG	1:F:793:ARG:HH22	1.75	1.00
1:J:125:ARG:HD3	1:J:125:ARG:H	1.25	1.00
1:D:158:ARG:NE	1:D:1203:THR:HG21	1.76	0.99
1:A:517:LEU:HD11	1:A:568:PHE:CE2	1.98	0.99
1:D:1005:VAL:CG2	1:D:1006:ARG:N	2.25	0.99
1:E:983:TYR:HE2	1:E:1003:PRO:CD	1.75	0.99
1:F:558:THR:OG1	1:F:720:THR:CG2	2.08	0.99
1:A:1016:ARG:HE	1:B:1211:ARG:HH21	1.07	0.99
2:2:386:GLN:NE2	2:2:674:SER:OG	1.95	0.99
1:A:166:ASP:CB	1:A:280:ARG:HD2	1.92	0.99
1:J:864:PHE:CZ	1:J:934:LEU:HD12	1.98	0.99
3:4:655:ARG:HG3	3:4:674:LEU:HB2	1.42	0.99
1:A:913:PHE:O	1:A:914:ASP:OD2	1.79	0.99
1:B:457:MET:HE3	1:B:920:LEU:HG	1.03	0.99
1:C:432:ILE:HD11	1:C:437:ARG:HH11	1.23	0.99
1:J:1066:MET:O	1:J:1069:ALA:O	1.79	0.99
2:2:129:ALA:HB3	2:2:132:ALA:CA	1.92	0.99
2:2:237:ASP:OD2	2:2:271:TYR:OH	1.81	0.99
1:E:282:TYR:CE2	1:F:830:ASN:OD1	2.16	0.98
1:G:526:ALA:O	1:G:529:TRP:N	1.96	0.98
3:4:609:ALA:HB2	3:4:657:LEU:HD23	1.01	0.98
1:I:164:TRP:CE3	1:I:167:ILE:HG21	1.98	0.98
1:I:697:MET:HE2	1:I:697:MET:HA	1.45	0.98
1:H:461:ASN:ND2	1:H:918:ALA:HB3	1.78	0.98
1:I:460:VAL:HG11	1:I:787:ARG:HG2	1.45	0.98
3:4:282:PHE:CA	3:4:682:THR:CG2	2.35	0.98
1:A:174:VAL:HG21	1:A:900:GLU:O	1.61	0.98
1:D:555:GLN:OE1	1:D:559:HIS:ND1	1.96	0.98
1:G:722:ASN:HB2	1:G:725:THR:HG22	1.46	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:89:ASN:OD1	2:2:90:PRO:CD	2.11	0.98
2:2:129:ALA:HB3	2:2:132:ALA:HB3	0.99	0.98
1:D:160:PHE:CD1	1:D:1208:MET:CE	2.47	0.98
1:C:697:MET:HE2	1:C:744:PRO:HG3	1.46	0.98
1:I:466:THR:CB	1:I:809:ALA:HA	1.93	0.98
2:2:181:ARG:HG2	2:2:246:HIS:HD2	1.24	0.98
1:I:239:ALA:O	1:I:1149:THR:O	1.80	0.98
1:D:160:PHE:HD1	1:D:1208:MET:HE2	1.29	0.98
3:4:316:SER:HG	3:4:354:ASP:HB3	1.24	0.97
3:4:648:ILE:HG22	3:4:649:GLU:HG2	1.41	0.97
1:C:241:ASN:O	1:C:1147:PHE:CB	2.12	0.97
1:J:221:GLY:N	1:J:228:MET:HE2	1.79	0.97
1:A:511:ILE:CD1	1:A:732:VAL:CG2	2.41	0.97
1:D:1005:VAL:CG2	1:D:1006:ARG:H	1.78	0.97
3:4:609:ALA:CB	3:4:657:LEU:HD23	1.93	0.97
1:F:123:ASN:HD22	1:F:161:LEU:HB2	1.29	0.97
1:F:314:SER:HB3	1:F:1196:ARG:CB	1.94	0.97
1:I:166:ASP:OD1	1:I:525:TYR:CD2	2.17	0.97
3:4:659:THR:OG1	3:4:708:PHE:CZ	2.16	0.97
1:C:684:LEU:HD13	1:C:685:PRO:HD2	0.99	0.97
1:F:118:VAL:HG12	1:F:123:ASN:O	1.65	0.97
1:F:791:ALA:C	1:F:792:GLN:HE21	1.66	0.97
1:C:241:ASN:O	1:C:1147:PHE:HB2	1.65	0.97
2:2:1088:GLN:HE21	2:2:1103:TYR:HB3	1.27	0.97
1:A:174:VAL:HG21	1:A:900:GLU:HG2	1.45	0.96
1:D:1005:VAL:HG22	1:D:1006:ARG:N	1.79	0.96
1:C:697:MET:CE	1:C:744:PRO:HG3	1.94	0.96
1:I:164:TRP:HE3	1:I:167:ILE:HD13	0.81	0.96
2:2:462:VAL:CG2	2:2:497:ILE:HD13	1.94	0.96
2:2:485:GLU:HG3	2:2:505:ARG:NH2	1.79	0.96
1:E:490:PRO:HG3	1:E:525:TYR:CZ	2.00	0.96
1:H:460:VAL:HG11	1:H:923:LEU:HD12	1.47	0.96
2:2:129:ALA:O	2:2:132:ALA:N	1.98	0.96
1:D:875:GLN:OE1	1:D:930:ARG:HD2	1.64	0.96
1:F:122:CYS:SG	1:F:140:HIS:NE2	2.38	0.96
1:D:160:PHE:CD1	1:D:1208:MET:HE2	2.00	0.96
1:D:618:PRO:HG2	1:D:779:VAL:HG13	1.47	0.96
1:J:290:PRO:HG3	1:J:1053:GLN:HE22	1.26	0.96
1:D:626:LEU:HD11	1:D:776:GLN:HG3	0.97	0.96
2:2:129:ALA:HB2	2:2:132:ALA:HB3	1.43	0.96
3:4:401:ALA:CB	3:4:674:LEU:HD13	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:633:CYS:HG	3:4:657:LEU:HD21	1.31	0.96
1:E:983:TYR:CE2	1:E:1003:PRO:CD	2.49	0.96
2:2:129:ALA:O	2:2:130:GLU:C	2.01	0.95
3:4:655:ARG:HE	3:4:674:LEU:CG	1.79	0.95
1:C:684:LEU:HD13	1:C:685:PRO:CD	1.94	0.95
1:E:697:MET:HE1	1:E:747:ILE:HG13	1.48	0.95
1:I:679:TRP:CZ2	1:I:697:MET:CE	2.49	0.95
1:F:790:PRO:CA	1:F:793:ARG:NH2	2.28	0.95
1:C:426:ASN:ND2	1:C:429:ASN:OD1	2.00	0.95
1:F:1019:THR:CG2	1:G:350:LEU:O	2.14	0.95
3:4:368:GLU:OE1	3:4:372:ALA:HB2	1.65	0.95
1:D:155:ASN:ND2	1:D:848:ASN:HD21	1.65	0.95
1:H:690:ALA:HB3	1:H:691:PRO:HD3	0.98	0.95
3:4:621:TRP:HE1	3:4:702:ASN:N	1.63	0.95
1:C:1122:PRO:HG2	1:C:1149:THR:HG23	1.47	0.94
2:2:487:ASP:HB3	2:2:491:VAL:HB	1.49	0.94
2:2:986:PHE:CE1	2:2:1027:TRP:NE1	2.35	0.94
2:2:80:ARG:NE	2:2:128:ARG:NH2	2.16	0.94
2:2:497:ILE:HD12	2:2:498:TYR:H	1.32	0.94
1:D:1076:VAL:HG12	1:D:1078:LEU:HD11	1.46	0.94
2:2:93:VAL:HG21	2:2:389:MET:HG3	1.49	0.94
1:G:166:ASP:O	1:G:170:LEU:HD21	1.66	0.94
1:B:626:LEU:HD11	1:B:776:GLN:OE1	1.67	0.94
1:C:518:LEU:HD21	1:C:820:VAL:HG22	1.48	0.94
1:C:1148:SER:HA	1:C:1162:ALA:O	1.67	0.94
1:D:618:PRO:CB	1:D:779:VAL:CG1	2.46	0.94
1:D:717:MET:HG3	1:D:721:VAL:HG11	1.50	0.93
1:D:618:PRO:HG3	1:D:779:VAL:CG1	1.97	0.93
1:H:461:ASN:HD21	1:H:918:ALA:HB1	1.12	0.93
1:J:121:VAL:CG2	1:J:136:LEU:CD2	2.46	0.93
1:D:393:ALA:HB1	1:D:1184:LEU:CD2	1.98	0.93
1:C:432:ILE:HD12	1:C:433:PRO:HD2	0.94	0.93
1:D:160:PHE:HE1	1:D:1208:MET:HE1	1.19	0.93
1:G:876:ASP:OD2	1:H:686:ARG:NH2	2.02	0.93
2:2:80:ARG:NH2	3:4:707:SER:OG	2.00	0.93
1:G:1006:ARG:NH1	1:G:1077:GLU:CD	2.21	0.93
2:2:570:THR:HA	2:2:574:ILE:HD12	1.49	0.93
1:G:167:ILE:HG22	1:G:525:TYR:HB3	1.48	0.93
2:2:507:ALA:HB2	2:2:511:LEU:HD21	1.50	0.93
2:2:577:ILE:HD13	2:2:790:LEU:O	1.69	0.93
2:2:971:SER:HB3	2:2:974:ILE:HG22	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:118:VAL:HG11	1:B:161:LEU:HD13	1.50	0.93
1:C:1122:PRO:CB	1:C:1149:THR:HG21	1.99	0.93
1:I:523:ASN:ND2	1:I:525:TYR:CE1	2.35	0.93
3:4:282:PHE:HA	3:4:682:THR:HG21	1.50	0.93
2:2:717:VAL:HG21	2:2:722:LEU:HD12	1.49	0.93
1:B:227:GLN:OE1	1:B:229:TYR:CZ	2.21	0.93
1:A:354:THR:CG2	1:A:1152:ALA:O	2.16	0.92
1:A:517:LEU:HD11	1:A:568:PHE:CD2	2.05	0.92
1:J:113:ASN:OD1	1:J:116:SER:HB3	1.68	0.92
3:4:62:LEU:HB2	3:4:224:LEU:CD1	1.99	0.92
3:4:282:PHE:N	3:4:682:THR:HG1	1.65	0.92
1:D:393:ALA:CB	1:D:1184:LEU:HD21	1.99	0.92
1:H:923:LEU:HD23	1:H:931:ILE:HD13	1.47	0.92
1:J:126:PHE:HE2	1:J:135:HIS:HB2	1.27	0.92
2:2:129:ALA:CB	2:2:132:ALA:H	1.82	0.92
1:E:915:LEU:HD23	1:E:915:LEU:H	1.33	0.92
1:A:580:HIS:CE1	1:A:616:SER:O	2.22	0.92
1:G:167:ILE:CG2	1:G:525:TYR:CG	2.51	0.92
1:H:462:ILE:HD12	1:H:540:LEU:HD11	1.52	0.92
1:J:124:ALA:HB3	1:J:135:HIS:CE1	2.04	0.92
1:J:921:ASP:O	1:J:922:GLY:C	2.06	0.92
1:F:790:PRO:HA	1:F:793:ARG:NH2	1.85	0.92
1:G:171:SER:CB	1:G:172:PRO:CD	2.48	0.92
2:2:799:PRO:HD2	2:2:1090:ALA:CB	1.99	0.92
1:I:523:ASN:HD22	1:I:525:TYR:HE1	0.94	0.92
1:A:177:LYS:CD	1:A:180:SER:HB2	1.99	0.92
1:A:1016:ARG:NE	1:B:1211:ARG:HH22	1.56	0.92
1:B:860:THR:HG22	1:B:920:LEU:HD11	1.49	0.92
1:I:167:ILE:HG13	1:I:168:ARG:H	1.34	0.92
1:H:1023:ARG:NH1	1:H:1030:GLN:HE22	1.67	0.92
1:I:466:THR:CB	1:I:809:ALA:HB2	1.98	0.92
2:2:74:PHE:O	2:2:134:CYS:SG	2.27	0.92
1:I:201:CYS:O	1:I:395:THR:CG2	2.19	0.91
1:J:220:ILE:HB	1:J:228:MET:CE	2.00	0.91
1:J:322:THR:HG21	1:J:348:ALA:HB2	1.51	0.91
2:2:387:PRO:CB	2:2:671:ASP:HB3	2.00	0.91
3:4:674:LEU:HD22	3:4:674:LEU:C	1.90	0.91
1:D:876:ASP:OD2	1:D:892:ASP:CG	2.09	0.91
1:G:356:ASN:HB2	1:G:1151:ALA:HB1	1.51	0.91
1:D:1020:ILE:CD1	1:D:1031:LEU:HD13	2.00	0.91
1:I:462:ILE:HD12	1:I:468:ALA:HB1	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:86:THR:OG1	2:2:89:ASN:O	1.89	0.91
2:2:985:LEU:HD12	2:2:986:PHE:HE2	1.21	0.91
1:I:193:LEU:O	1:I:402:TYR:OH	1.88	0.91
1:F:558:THR:CA	1:F:720:THR:HG21	2.00	0.91
1:H:117:TYR:HD1	1:H:118:VAL:HG22	1.36	0.91
2:2:77:ASN:HD21	2:2:83:ARG:HH21	1.14	0.91
2:2:1116:TYR:O	2:2:1179:GLN:OE1	1.89	0.91
1:D:626:LEU:CD1	1:D:776:GLN:CG	2.39	0.90
1:E:983:TYR:CD2	1:E:1003:PRO:HD2	2.06	0.90
1:F:790:PRO:HG3	1:F:793:ARG:HH22	1.35	0.90
1:I:466:THR:OG1	1:I:809:ALA:HB1	1.70	0.90
1:H:119:CYS:SG	1:H:132:LEU:CD1	2.59	0.90
2:2:80:ARG:CD	2:2:128:ARG:HE	1.84	0.90
1:A:476:LEU:HD23	1:A:533:ALA:HB1	0.90	0.90
3:4:650:ARG:HB3	3:4:650:ARG:CZ	1.98	0.90
1:G:195:ILE:HD13	1:G:257:ARG:NE	1.84	0.90
1:J:290:PRO:HG3	1:J:1053:GLN:NE2	1.86	0.90
1:D:618:PRO:CG	1:D:779:VAL:HG11	1.97	0.90
1:D:653:PRO:HD3	1:D:773:ARG:HG2	1.51	0.90
2:2:80:ARG:HD3	2:2:128:ARG:HE	1.36	0.90
1:A:422:GLU:OE1	1:A:660:SER:CB	2.18	0.90
1:C:645:HIS:NE2	1:C:703:THR:OG1	2.03	0.90
1:H:117:TYR:CD1	1:H:118:VAL:HG22	2.07	0.90
2:2:117:HIS:ND1	2:2:118:PRO:HD2	1.84	0.90
2:2:729:MET:HG3	2:2:734:ASN:HD22	1.35	0.90
2:2:985:LEU:HD13	2:2:986:PHE:CD2	2.06	0.90
1:D:139:ASP:CG	1:D:158:ARG:HH12	1.75	0.90
1:F:457:MET:SD	1:F:920:LEU:HD12	2.11	0.90
1:H:113:ASN:ND2	1:H:114:PRO:HD2	1.86	0.90
1:H:1023:ARG:NH1	1:H:1030:GLN:NE2	2.20	0.90
1:B:860:THR:CG2	1:B:920:LEU:HD11	2.01	0.90
1:D:618:PRO:HB3	1:D:779:VAL:CG1	2.01	0.90
2:2:507:ALA:CB	2:2:511:LEU:HD21	1.99	0.90
1:E:983:TYR:HE2	1:E:1003:PRO:HD2	0.97	0.89
3:4:57:THR:HG23	3:4:60:GLU:N	1.87	0.89
1:D:155:ASN:HD22	1:D:848:ASN:ND2	1.69	0.89
1:G:241:ASN:OD1	1:G:1148:SER:O	1.89	0.89
1:J:221:GLY:H	1:J:228:MET:CE	1.83	0.89
3:4:57:THR:HG21	3:4:60:GLU:HB2	1.51	0.89
1:C:1122:PRO:HG2	1:C:1149:THR:HG21	1.53	0.89
1:G:894:THR:HG22	1:H:687:LEU:HD12	1.51	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:462:ILE:HD12	1:I:468:ALA:CB	2.02	0.89
2:2:77:ASN:OD1	2:2:83:ARG:HB2	1.71	0.89
1:B:457:MET:HE2	1:B:920:LEU:CD2	2.03	0.89
2:2:509:MET:CE	2:2:543:ALA:CB	2.51	0.89
3:4:617:ARG:HH22	3:4:626:ASP:HB2	1.37	0.89
3:4:657:LEU:HD11	3:4:668:VAL:CG1	2.00	0.89
1:F:193:LEU:O	1:F:402:TYR:OH	1.90	0.89
1:A:260:GLU:HG2	1:A:307:SER:HB2	1.55	0.89
1:E:663:GLN:HE22	1:E:850:MET:HE2	1.35	0.89
1:G:1006:ARG:HH12	1:G:1077:GLU:CD	1.74	0.89
1:B:876:ASP:HA	1:B:883:ARG:NH2	1.88	0.89
1:C:432:ILE:CG1	1:C:437:ARG:NH1	2.30	0.89
3:4:468:ARG:O	3:4:472:SER:HB3	1.73	0.89
1:E:656:PHE:HE2	1:E:675:MET:CB	1.85	0.89
3:4:282:PHE:N	3:4:682:THR:HB	1.88	0.89
1:I:465:ASN:CB	1:J:500:ILE:C	2.35	0.88
1:E:1050:ASP:OD2	1:F:1213:ALA:N	2.06	0.88
2:2:1187:VAL:HG21	2:2:1232:ILE:HD13	1.53	0.88
3:4:648:ILE:HG23	3:4:649:GLU:HG2	1.56	0.88
1:J:121:VAL:CG2	1:J:136:LEU:HD21	2.02	0.88
1:J:197:ASP:CA	1:J:253:GLY:HA3	2.02	0.88
2:2:77:ASN:ND2	2:2:78:GLN:N	2.20	0.88
2:2:625:PHE:CE2	2:2:626:MET:HG3	2.09	0.88
1:B:457:MET:HE2	1:B:920:LEU:HG	0.88	0.88
1:G:928:ASP:OD2	1:H:693:TYR:OH	1.91	0.88
1:H:331:ARG:HH11	1:H:1196:ARG:HD2	1.35	0.88
2:2:89:ASN:CG	2:2:90:PRO:HD2	1.92	0.88
1:A:425:ASN:O	1:A:427:LEU:HD23	1.74	0.88
3:4:473:ILE:O	3:4:476:PRO:HD2	1.73	0.88
1:D:156:ALA:HB1	1:D:444:TRP:CZ2	2.09	0.88
1:F:614:GLN:CA	1:G:431:THR:CG2	2.51	0.88
1:F:1019:THR:HG22	1:G:350:LEU:O	1.73	0.88
2:2:827:VAL:HG22	2:2:851:PHE:CD2	2.03	0.88
1:B:775:VAL:CG1	1:B:778:ASP:OD1	2.22	0.88
1:I:197:ASP:OD2	1:I:399:ARG:NH1	2.07	0.88
1:J:875:GLN:OE1	1:J:930:ARG:CD	2.20	0.88
2:2:748:HIS:O	2:2:748:HIS:ND1	2.07	0.88
3:4:282:PHE:C	3:4:682:THR:CG2	2.42	0.88
1:F:556:SER:O	1:F:557:ILE:HG22	1.74	0.88
1:F:459:LEU:O	1:F:463:SER:HB2	1.74	0.88
1:B:875:GLN:HE22	1:B:930:ARG:HB3	1.39	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:875:GLN:OE1	1:D:930:ARG:CD	2.22	0.87
1:C:1122:PRO:CG	1:C:1149:THR:HG21	2.04	0.87
1:E:490:PRO:HG3	1:E:525:TYR:HH	1.33	0.87
1:C:697:MET:HE2	1:C:744:PRO:CG	2.03	0.87
1:F:791:ALA:O	1:F:792:GLN:NE2	2.07	0.87
1:J:125:ARG:NE	1:J:125:ARG:O	2.07	0.87
1:C:433:PRO:HD2	1:C:437:ARG:NH1	1.88	0.87
1:J:928:ASP:OD2	1:J:930:ARG:NH2	2.08	0.87
2:2:78:GLN:HB2	2:2:83:ARG:HH22	1.35	0.87
2:2:97:ASN:HB2	2:2:269:HIS:O	1.75	0.87
2:2:1133:GLU:HG2	2:2:1185:ARG:NH2	1.89	0.87
1:A:248:ASN:HB2	1:A:260:GLU:OE2	1.74	0.87
1:I:465:ASN:HB2	1:J:500:ILE:CA	2.03	0.87
1:B:457:MET:HE3	1:B:920:LEU:CG	1.86	0.87
1:F:122:CYS:CB	1:F:140:HIS:NE2	2.38	0.87
1:H:461:ASN:HD22	1:H:918:ALA:CB	1.87	0.87
3:4:643:ALA:HB1	3:4:683:PHE:CZ	2.10	0.87
1:J:221:GLY:N	1:J:228:MET:CE	2.37	0.87
3:4:656:ALA:N	3:4:672:PRO:HD2	1.89	0.87
1:J:121:VAL:HG23	1:J:136:LEU:HD23	1.56	0.87
1:D:462:ILE:HG23	1:D:468:ALA:CB	2.04	0.87
1:D:709:ILE:HG12	1:D:733:MET:HE2	1.57	0.87
2:2:181:ARG:HG2	2:2:246:HIS:CD2	2.09	0.87
1:G:171:SER:HB3	1:G:172:PRO:CD	2.05	0.86
1:C:1122:PRO:CG	1:C:1149:THR:CG2	2.51	0.86
1:A:179:LEU:HD23	1:A:182:TYR:CE1	2.11	0.86
2:2:508:PHE:C	2:2:509:MET:HG3	1.96	0.86
1:B:1020:ILE:HD13	1:B:1031:LEU:HD13	1.57	0.86
1:G:195:ILE:HD11	1:G:257:ARG:NE	1.76	0.86
1:H:461:ASN:HD21	1:H:918:ALA:CB	1.74	0.86
3:4:297:GLU:HB2	3:4:306:ILE:HD11	1.55	0.86
1:H:614:GLN:N	1:I:431:THR:HG21	1.70	0.86
1:B:626:LEU:HD13	1:B:776:GLN:OE1	1.76	0.86
1:J:121:VAL:HG23	1:J:136:LEU:CD2	2.06	0.86
2:2:77:ASN:ND2	2:2:83:ARG:HH21	1.71	0.86
2:2:287:LEU:HD12	2:2:287:LEU:O	1.76	0.86
3:4:607:LEU:HD21	3:4:655:ARG:HH21	1.41	0.86
3:4:650:ARG:HB3	3:4:650:ARG:NH1	1.90	0.86
1:A:429:ASN:O	1:A:429:ASN:ND2	2.08	0.86
1:C:697:MET:CE	1:C:744:PRO:CG	2.53	0.86
1:G:199:GLY:O	1:G:1196:ARG:NH2	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:919:LEU:HD23	1:J:920:LEU:N	1.91	0.86
1:A:177:LYS:HD2	1:A:180:SER:HB2	1.55	0.86
1:B:227:GLN:OE1	1:B:229:TYR:OH	1.93	0.86
1:D:139:ASP:OD1	1:D:158:ARG:NH1	2.07	0.86
1:C:520:PRO:HB2	1:C:523:ASN:HA	1.58	0.86
1:D:1005:VAL:HG23	1:D:1006:ARG:H	1.37	0.86
1:C:686:ARG:HD3	1:C:687:LEU:HD13	1.56	0.86
1:F:614:GLN:HG2	1:G:431:THR:CG2	1.95	0.86
2:2:4:LEU:O	2:2:8:LEU:HD12	1.75	0.86
1:I:392:ASP:OD2	1:I:394:LEU:N	2.09	0.85
1:D:155:ASN:ND2	1:D:848:ASN:ND2	2.23	0.85
2:2:84:ILE:HG23	2:2:93:VAL:CG2	1.97	0.85
1:D:257:ARG:NH1	1:D:309:LEU:O	2.09	0.85
1:C:697:MET:HE2	1:C:744:PRO:CB	2.06	0.85
1:B:257:ARG:HH11	1:B:257:ARG:CB	1.88	0.85
2:2:86:THR:HB	2:2:89:ASN:O	1.75	0.85
3:4:629:LEU:HD21	3:4:693:TRP:CE3	2.12	0.85
1:B:122:CYS:SG	1:B:139:ASP:OD1	2.33	0.85
1:E:340:LEU:CD1	1:E:347:ARG:NH2	2.39	0.85
1:E:697:MET:HE1	1:E:747:ILE:CG1	2.07	0.85
1:C:1146:LEU:HD22	1:C:1147:PHE:N	1.92	0.85
2:2:129:ALA:C	2:2:131:ARG:N	2.27	0.85
1:F:614:GLN:CA	1:G:431:THR:HG21	2.07	0.85
2:2:17:LEU:HD23	2:2:166:ARG:CD	2.07	0.85
3:4:655:ARG:NE	3:4:674:LEU:HG	1.90	0.84
1:D:158:ARG:CD	1:D:1203:THR:HG21	2.06	0.84
1:F:560:LEU:HD11	1:F:729:MET:SD	2.17	0.84
1:H:923:LEU:HD23	1:H:931:ILE:CD1	2.06	0.84
1:D:665:SER:OG	1:D:672:SER:O	1.94	0.84
1:J:290:PRO:CG	1:J:1053:GLN:HE22	1.91	0.84
2:2:986:PHE:O	2:2:987:TYR:HD2	1.60	0.84
3:4:284:PHE:CB	3:4:682:THR:HA	2.07	0.84
1:A:179:LEU:HB2	1:A:182:TYR:CE2	2.12	0.84
1:I:465:ASN:HB3	1:J:499:THR:O	1.75	0.84
1:I:466:THR:CB	1:I:809:ALA:CA	2.51	0.84
2:2:385:ARG:HG3	2:2:390:SER:HB2	1.57	0.84
3:4:61:LEU:HD22	3:4:221:LEU:HD11	1.59	0.84
1:C:432:ILE:HD12	1:C:433:PRO:HD3	1.58	0.84
1:G:164:TRP:CE3	1:G:167:ILE:HG21	2.12	0.84
1:H:923:LEU:CD2	1:H:931:ILE:CD1	2.55	0.84
1:J:983:TYR:CD1	1:J:1003:PRO:CG	2.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1016:ARG:HE	1:B:1211:ARG:HH22	0.84	0.84
2:2:577:ILE:CG2	2:2:792:ALA:HB3	2.08	0.84
3:4:621:TRP:HE1	3:4:702:ASN:HA	0.91	0.84
1:A:177:LYS:NZ	1:A:177:LYS:HB3	1.93	0.83
1:D:462:ILE:HG23	1:D:468:ALA:HB1	1.58	0.83
1:C:517:LEU:CD1	1:C:568:PHE:HE2	1.91	0.83
3:4:65:LEU:HD11	3:4:198:LEU:HD23	1.60	0.83
3:4:316:SER:OG	3:4:354:ASP:CB	2.26	0.83
1:E:655:GLU:N	1:E:655:GLU:OE1	2.09	0.83
1:J:124:ALA:HB3	1:J:135:HIS:ND1	1.92	0.83
2:2:509:MET:HE1	2:2:543:ALA:CB	2.07	0.83
2:2:341:LEU:O	2:2:341:LEU:HD23	1.78	0.83
1:F:614:GLN:HG3	1:G:431:THR:HG23	1.60	0.83
1:H:923:LEU:CD2	1:H:931:ILE:HD12	2.09	0.83
1:A:502:GLU:OE2	1:A:509:SER:OG	1.97	0.83
1:I:167:ILE:HG13	1:I:168:ARG:N	1.91	0.83
1:I:466:THR:HB	1:I:809:ALA:HA	1.52	0.83
2:2:985:LEU:CD1	2:2:986:PHE:CD2	2.61	0.83
1:A:462:ILE:HD11	1:A:468:ALA:HB1	1.61	0.83
1:I:201:CYS:O	1:I:395:THR:HG23	1.77	0.83
3:4:282:PHE:N	3:4:682:THR:OG1	2.10	0.83
3:4:657:LEU:CD2	3:4:712:LEU:HD23	2.08	0.83
2:2:485:GLU:CG	2:2:505:ARG:HH22	1.91	0.83
3:4:474:LEU:O	3:4:474:LEU:HD23	1.77	0.83
3:4:621:TRP:NE1	3:4:702:ASN:C	2.30	0.83
1:B:459:LEU:HD12	1:B:459:LEU:O	1.77	0.83
1:G:930:ARG:NH2	1:H:689:VAL:HB	1.92	0.83
1:D:158:ARG:NE	1:D:1203:THR:CG2	2.41	0.82
1:C:525:TYR:HE2	1:C:820:VAL:HG11	1.44	0.82
1:G:167:ILE:HG22	1:G:525:TYR:CD2	2.13	0.82
1:F:1032:ILE:HD11	1:G:353:GLN:OE1	1.78	0.82
2:2:176:ASP:CG	2:2:842:ARG:HH12	1.81	0.82
2:2:176:ASP:CG	2:2:842:ARG:NH1	2.32	0.82
1:A:171:SER:HG	1:A:172:PRO:HD3	1.40	0.82
1:C:517:LEU:HD12	1:C:568:PHE:HE2	1.44	0.82
1:H:590:ALA:O	1:H:608:GLN:NE2	2.11	0.82
2:2:746:LEU:CB	2:2:747:PRO:HD2	2.08	0.82
2:2:1023:VAL:HG12	2:2:1130:LEU:CD1	2.09	0.82
1:F:324:ILE:O	1:F:325:THR:OG1	1.98	0.82
2:2:17:LEU:CD2	2:2:166:ARG:HD2	2.10	0.82
1:F:875:GLN:OE1	1:F:930:ARG:HD2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:654:SER:O	3:4:672:PRO:CG	2.26	0.82
1:J:125:ARG:HD3	1:J:125:ARG:N	1.90	0.82
1:J:324:ILE:HD12	1:J:325:THR:N	1.93	0.82
3:4:57:THR:CG2	3:4:60:GLU:HB3	1.92	0.82
1:G:195:ILE:CD1	1:G:257:ARG:HE	1.89	0.82
3:4:282:PHE:C	3:4:682:THR:HG21	2.00	0.82
3:4:695:PRO:HB2	3:4:698:ARG:HG3	1.62	0.82
1:H:906:ASN:OD1	1:H:921:ASP:HB3	1.80	0.82
1:B:118:VAL:HG11	1:B:161:LEU:CD1	2.10	0.81
1:F:122:CYS:SG	1:F:140:HIS:HD2	2.02	0.81
1:G:1006:ARG:NH1	1:G:1077:GLU:OE1	2.14	0.81
2:2:126:THR:HG1	2:2:127:LEU:HD23	1.41	0.81
1:H:461:ASN:HD22	1:H:918:ALA:HB3	1.41	0.81
2:2:507:ALA:HB1	2:2:511:LEU:CD2	2.08	0.81
3:4:659:THR:OG1	3:4:708:PHE:CE1	2.30	0.81
1:E:656:PHE:HE2	1:E:675:MET:HB3	1.42	0.81
1:J:864:PHE:CE1	1:J:934:LEU:HD11	2.15	0.81
1:H:910:LYS:NZ	1:H:921:ASP:OD2	2.13	0.81
1:I:460:VAL:CG1	1:I:787:ARG:HG2	2.10	0.81
3:4:609:ALA:CB	3:4:657:LEU:CD2	2.56	0.81
3:4:622:THR:OG1	3:4:700:LEU:O	1.99	0.81
1:B:213:ALA:HB3	1:B:215:LEU:HD21	1.62	0.81
1:E:1050:ASP:CG	1:F:1213:ALA:CB	2.44	0.81
1:B:118:VAL:CG1	1:B:161:LEU:CD1	2.58	0.81
1:D:158:ARG:HE	1:D:1203:THR:CG2	1.94	0.81
1:A:516:ARG:HH11	2:2:1172:ARG:HD3	1.45	0.81
1:C:518:LEU:HD21	1:C:820:VAL:HG21	1.61	0.81
3:4:65:LEU:O	3:4:65:LEU:HD13	1.81	0.81
1:A:177:LYS:HG3	1:A:180:SER:HB2	1.60	0.81
1:D:618:PRO:HG3	1:D:779:VAL:HG13	1.57	0.81
1:J:921:ASP:O	1:J:924:ALA:N	2.14	0.81
3:4:655:ARG:HA	3:4:672:PRO:O	1.80	0.81
1:A:919:LEU:O	1:A:919:LEU:HD23	1.81	0.80
1:A:1006:ARG:NH1	1:A:1077:GLU:OE1	2.14	0.80
1:H:195:ILE:HD13	1:H:256:GLY:CA	2.12	0.80
2:2:507:ALA:HB3	2:2:511:LEU:HG	0.82	0.80
1:D:555:GLN:OE1	1:D:559:HIS:CE1	2.35	0.80
1:F:1213:ALA:O	1:F:1214:THR:OXT	2.00	0.80
1:J:324:ILE:O	1:J:325:THR:OG1	1.98	0.80
2:2:129:ALA:HB3	2:2:132:ALA:N	1.94	0.80
3:4:621:TRP:NE1	3:4:703:GLY:N	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:921:ASP:OD1	1:B:922:GLY:N	2.13	0.80
1:F:220:ILE:HG22	1:F:228:MET:SD	2.22	0.80
2:2:77:ASN:HD21	2:2:83:ARG:HD2	1.45	0.80
1:I:393:ALA:HB2	1:I:1192:ASN:ND2	1.96	0.80
2:2:577:ILE:CG2	2:2:792:ALA:CB	2.60	0.80
1:C:252:LEU:HD23	1:C:252:LEU:O	1.80	0.80
1:J:864:PHE:CE1	1:J:934:LEU:CD1	2.65	0.80
3:4:472:SER:O	3:4:476:PRO:HD3	1.80	0.80
3:4:473:ILE:HG12	3:4:564:LEU:HG	1.64	0.80
1:C:517:LEU:O	1:C:517:LEU:HD22	1.82	0.80
3:4:573:ALA:O	3:4:574:SER:OG	1.99	0.80
1:A:168:ARG:HH22	3:4:367:LEU:HA	1.44	0.80
1:E:525:TYR:CE1	1:E:820:VAL:HG11	2.17	0.80
2:2:128:ARG:HB3	2:2:133:ARG:HH11	1.43	0.80
1:A:476:LEU:CD2	1:A:533:ALA:CB	2.51	0.80
1:C:1148:SER:OG	1:C:1163:ALA:C	2.20	0.80
1:J:1052:LEU:HD12	1:J:1052:LEU:O	1.82	0.80
2:2:1078:ILE:HD11	2:2:1203:TYR:CE2	2.17	0.80
3:4:621:TRP:CZ2	3:4:702:ASN:OD1	2.34	0.79
1:G:428:LEU:HD22	1:G:428:LEU:O	1.82	0.79
1:A:462:ILE:HD11	1:A:468:ALA:CB	2.12	0.79
1:E:1051:VAL:HA	1:F:1212:SER:OG	1.81	0.79
2:2:254:LEU:O	2:2:254:LEU:HD23	1.83	0.79
2:2:485:GLU:CG	2:2:505:ARG:NH2	2.46	0.79
1:C:1148:SER:OG	1:C:1164:VAL:N	2.16	0.79
3:4:607:LEU:HD21	3:4:655:ARG:NH2	1.97	0.79
1:B:119:CYS:HB3	1:B:124:ALA:N	1.97	0.79
1:A:167:ILE:O	3:4:365:VAL:HG13	1.83	0.79
1:B:1020:ILE:CD1	1:B:1031:LEU:HD13	2.12	0.79
1:F:557:ILE:CD1	1:F:593:LEU:HD21	2.10	0.79
3:4:643:ALA:O	3:4:647:LEU:HB2	1.83	0.79
1:D:1146:LEU:HD11	1:D:1149:THR:HG22	1.65	0.79
1:H:692:THR:HG23	1:H:693:TYR:CD2	2.18	0.79
1:J:983:TYR:CE1	1:J:1003:PRO:HG2	2.18	0.79
2:2:1023:VAL:HG12	2:2:1130:LEU:HD11	1.65	0.79
1:J:252:LEU:HD11	1:J:336:ARG:H	1.47	0.79
2:2:256:LEU:O	2:2:256:LEU:HD23	1.83	0.79
2:2:387:PRO:HB2	2:2:671:ASP:CB	2.13	0.79
1:B:595:GLN:O	1:C:687:LEU:HD11	1.82	0.79
1:H:117:TYR:O	1:H:125:ARG:HB3	1.83	0.78
1:H:915:LEU:HD12	1:H:919:LEU:HG	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:465:ASN:CG	1:I:465:ASN:O	2.18	0.78
2:2:576:LEU:O	2:2:578:LEU:N	2.16	0.78
1:H:539:GLY:HA2	1:H:807:PHE:HE2	1.49	0.78
2:2:509:MET:CE	2:2:543:ALA:HB2	2.12	0.78
3:4:401:ALA:CB	3:4:674:LEU:CD1	2.56	0.78
3:4:657:LEU:CD1	3:4:668:VAL:HG11	2.11	0.78
1:E:655:GLU:CG	1:E:674:ARG:HD2	2.12	0.78
2:2:489:SER:HB3	2:2:969:ALA:HB3	1.63	0.78
1:A:511:ILE:CD1	1:A:732:VAL:HG21	2.13	0.78
1:B:653:PRO:HD3	1:B:773:ARG:HG2	1.66	0.78
2:2:129:ALA:O	2:2:131:ARG:CA	2.30	0.78
2:2:508:PHE:CE1	2:2:988:ASP:HB3	2.19	0.78
2:2:509:MET:HE3	2:2:543:ALA:CB	2.14	0.78
1:C:649:ASN:ND2	1:C:703:THR:HG21	1.98	0.78
1:H:331:ARG:NH1	1:H:1196:ARG:CZ	2.35	0.78
2:2:576:LEU:O	2:2:577:ILE:C	2.20	0.78
1:B:906:ASN:ND2	1:B:919:LEU:O	2.17	0.78
1:G:428:LEU:HD13	1:G:428:LEU:H	1.48	0.78
2:2:4:LEU:O	2:2:8:LEU:CD1	2.31	0.78
2:2:625:PHE:CD2	2:2:626:MET:HB2	2.18	0.78
1:F:123:ASN:ND2	1:F:161:LEU:HB2	1.99	0.78
2:2:246:HIS:O	2:2:843:GLU:CG	2.27	0.78
1:A:511:ILE:HD13	1:A:732:VAL:HG21	1.64	0.78
1:B:373:ARG:HG2	1:B:373:ARG:HH21	1.49	0.78
1:G:171:SER:HB3	1:G:172:PRO:HD2	1.63	0.78
2:2:17:LEU:CD2	2:2:166:ARG:CD	2.62	0.78
1:G:526:ALA:O	1:G:527:ALA:C	2.21	0.78
1:J:322:THR:HG22	1:J:323:THR:H	1.47	0.78
3:4:66:GLN:HE21	3:4:201:LEU:HD23	1.47	0.78
1:C:428:LEU:HD12	1:C:428:LEU:O	1.83	0.77
3:4:475:SER:OG	3:4:482:ASP:OD2	2.02	0.77
1:G:724:LEU:HD12	1:G:724:LEU:O	1.85	0.77
1:H:688:THR:O	1:H:689:VAL:HG12	1.84	0.77
1:G:195:ILE:HD11	1:G:257:ARG:HE	1.48	0.77
1:I:200:LEU:HD23	1:I:200:LEU:N	1.99	0.77
2:2:292:ARG:HH12	2:2:328:PRO:CB	1.97	0.77
3:4:656:ALA:H	3:4:672:PRO:CD	1.94	0.77
1:H:923:LEU:HD21	1:H:931:ILE:HD12	1.66	0.77
1:B:1008:GLY:O	1:B:1011:VAL:CG1	2.32	0.77
1:I:465:ASN:CB	1:J:500:ILE:HA	2.15	0.77
1:J:117:TYR:OH	1:J:166:ASP:OD1	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:496:LYS:HB3	2:2:498:TYR:HD2	1.49	0.77
3:4:335:LEU:HD23	3:4:377:PHE:O	1.83	0.77
3:4:473:ILE:C	3:4:476:PRO:HD2	2.03	0.77
1:E:531:CYS:SG	1:E:813:VAL:HG21	2.25	0.77
1:F:614:GLN:CG	1:G:431:THR:HG22	1.95	0.77
2:2:796:CYS:HB2	2:2:1087:PRO:O	1.84	0.77
3:4:62:LEU:HD12	3:4:62:LEU:O	1.85	0.77
1:A:150:THR:CB	1:A:151:PRO:HD3	2.08	0.77
1:C:517:LEU:CD1	1:C:568:PHE:CE2	2.67	0.77
2:2:80:ARG:HH12	3:4:658:VAL:HG11	1.50	0.77
2:2:89:ASN:CB	2:2:90:PRO:HD2	2.15	0.77
3:4:284:PHE:HB2	3:4:682:THR:CA	2.13	0.77
1:A:1184:LEU:HD12	1:A:1184:LEU:O	1.85	0.77
1:B:595:GLN:HB3	1:C:687:LEU:HD12	1.67	0.77
1:D:653:PRO:CD	1:D:773:ARG:HG2	2.14	0.77
1:A:511:ILE:HD11	1:A:732:VAL:CG2	2.15	0.77
1:E:915:LEU:HD23	1:E:915:LEU:N	2.00	0.77
1:E:1050:ASP:OD2	1:F:1213:ALA:HB3	1.84	0.77
2:2:73:CYS:SG	2:2:87:ILE:HD11	2.25	0.77
1:D:709:ILE:CG1	1:D:733:MET:CE	2.63	0.76
1:F:614:GLN:HA	1:G:431:THR:CG2	2.15	0.76
1:B:1008:GLY:CA	1:B:1011:VAL:HG11	2.16	0.76
1:H:463:SER:HA	1:H:801:ARG:HH21	1.50	0.76
1:J:252:LEU:O	1:J:252:LEU:HD23	1.85	0.76
2:2:77:ASN:HD21	2:2:83:ARG:NH2	1.83	0.76
2:2:78:GLN:HA	2:2:78:GLN:NE2	1.98	0.76
1:D:331:ARG:HD3	1:D:387:CYS:SG	2.25	0.76
1:C:432:ILE:HD11	1:C:437:ARG:CZ	2.13	0.76
1:F:324:ILE:C	1:F:325:THR:HG23	2.05	0.76
2:2:746:LEU:HB3	2:2:747:PRO:CD	2.13	0.76
1:G:164:TRP:O	1:G:167:ILE:HG13	1.85	0.76
1:I:465:ASN:HB2	1:J:500:ILE:HA	1.65	0.76
2:2:1078:ILE:CG2	2:2:1207:HIS:CE1	2.68	0.76
1:A:426:ASN:C	1:A:427:LEU:HD23	2.06	0.76
1:B:1008:GLY:C	1:B:1011:VAL:HG12	2.05	0.76
1:G:983:TYR:HE2	1:G:1003:PRO:HD2	1.47	0.76
1:I:236:PRO:O	1:I:241:ASN:ND2	2.19	0.76
1:J:983:TYR:CD1	1:J:1003:PRO:HG2	2.21	0.76
2:2:292:ARG:NH1	2:2:328:PRO:CB	2.46	0.76
3:4:655:ARG:CG	3:4:674:LEU:HB2	2.15	0.76
1:G:157:ILE:HD11	1:G:494:THR:HG23	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:164:TRP:O	1:G:167:ILE:CG1	2.33	0.76
1:J:257:ARG:NH1	1:J:309:LEU:O	2.18	0.76
2:2:988:ASP:O	2:2:989:SER:OG	2.03	0.76
1:F:723:ASP:OD1	1:F:726:ARG:NH1	2.18	0.76
1:D:220:ILE:O	1:D:350:LEU:HD21	1.86	0.76
1:C:432:ILE:CG1	1:C:433:PRO:HD2	2.16	0.76
2:2:77:ASN:ND2	2:2:78:GLN:H	1.84	0.76
1:E:1050:ASP:OD2	1:F:1213:ALA:CB	2.34	0.75
1:I:465:ASN:O	1:I:465:ASN:OD1	2.04	0.75
2:2:717:VAL:CG2	2:2:722:LEU:HD12	2.14	0.75
3:4:655:ARG:CA	3:4:672:PRO:O	2.34	0.75
3:4:657:LEU:HD11	3:4:668:VAL:HG13	1.58	0.75
1:B:373:ARG:HG2	1:B:373:ARG:NH2	2.02	0.75
1:A:427:LEU:HD23	1:A:427:LEU:N	2.01	0.75
1:B:73:ASN:ND2	1:B:75:ASP:OD1	2.20	0.75
1:B:832:ILE:CG2	1:B:1213:ALA:HB2	2.16	0.75
3:4:633:CYS:SG	3:4:657:LEU:HD11	2.26	0.75
3:4:674:LEU:HD22	3:4:675:PRO:N	2.00	0.75
1:J:120:ASN:OD1	1:J:121:VAL:HG22	1.87	0.75
1:J:126:PHE:CD2	1:J:131:ALA:O	2.40	0.75
1:A:177:LYS:HD2	1:A:180:SER:CB	2.16	0.75
1:I:697:MET:HB3	1:I:744:PRO:HB3	1.69	0.75
1:I:394:LEU:HD12	1:I:394:LEU:O	1.87	0.75
1:D:1020:ILE:HD13	1:D:1031:LEU:HD13	1.67	0.75
1:D:1076:VAL:HG12	1:D:1078:LEU:CD1	2.16	0.75
3:4:355:ASP:OD1	3:4:356:VAL:N	2.20	0.75
1:D:663:GLN:NE2	1:D:854:ASN:OD1	2.19	0.75
1:E:1001:ALA:HB1	1:E:1002:PRO:HD2	1.69	0.75
1:H:376:LEU:HD12	1:H:438:PRO:CB	2.17	0.75
1:I:1078:LEU:N	1:I:1078:LEU:HD23	2.01	0.75
2:2:176:ASP:CB	2:2:842:ARG:HH12	1.99	0.75
2:2:288:ARG:HH11	2:2:288:ARG:HG3	1.51	0.75
1:A:168:ARG:CA	1:A:168:ARG:HH11	2.00	0.74
1:D:709:ILE:HG12	1:D:733:MET:CE	2.16	0.74
1:G:161:LEU:O	1:G:161:LEU:HD13	1.86	0.74
2:2:292:ARG:HH12	2:2:328:PRO:HB2	1.52	0.74
3:4:629:LEU:CD2	3:4:693:TRP:CZ3	2.70	0.74
1:F:228:MET:HE3	1:F:230:GLN:NE2	2.01	0.74
1:F:370:ARG:NH2	1:F:374:ALA:HA	2.01	0.74
2:2:346:LEU:HB3	2:2:349:ILE:HG12	1.69	0.74
2:2:1116:TYR:C	2:2:1179:GLN:OE1	2.25	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:305:ARG:CZ	3:4:305:ARG:HB2	2.17	0.74
1:E:701:ILE:HD11	1:E:822:MET:HG2	1.69	0.74
1:B:1008:GLY:O	1:B:1011:VAL:HG12	1.86	0.74
1:E:1012:ARG:NH2	1:E:1043:GLY:HA3	2.02	0.74
1:C:645:HIS:CD2	1:C:703:THR:OG1	2.40	0.74
1:F:555:GLN:HA	1:F:555:GLN:NE2	2.02	0.74
1:J:117:TYR:HB3	1:J:125:ARG:CG	2.16	0.74
2:2:1036:LYS:O	2:2:1037:PRO:C	2.18	0.74
3:4:617:ARG:NH2	3:4:626:ASP:HB2	2.02	0.74
1:A:179:LEU:HD23	1:A:182:TYR:CD1	2.22	0.74
1:C:517:LEU:HD12	1:C:568:PHE:CE2	2.23	0.74
3:4:705:ASN:O	3:4:706:VAL:HB	1.85	0.74
3:4:621:TRP:CZ2	3:4:702:ASN:HA	2.22	0.74
1:F:464:SER:CB	1:F:800:ILE:HG23	2.18	0.74
1:I:697:MET:HA	1:I:697:MET:CE	2.17	0.74
1:F:324:ILE:CG2	1:F:325:THR:HG23	2.16	0.74
1:F:558:THR:OG1	1:F:720:THR:HG22	1.88	0.74
2:2:81:VAL:HG13	2:2:677:ASN:HD21	1.51	0.74
2:2:505:ARG:HD2	2:2:981:LEU:O	1.87	0.74
3:4:282:PHE:C	3:4:682:THR:HG22	2.08	0.74
1:F:330:ILE:HD13	1:F:340:LEU:HD11	1.68	0.74
3:4:656:ALA:O	3:4:710:SER:O	2.05	0.74
1:G:930:ARG:CZ	1:H:689:VAL:CB	2.64	0.73
1:F:219:LEU:HD23	1:F:350:LEU:HD22	1.69	0.73
1:J:1079:GLY:O	1:J:1080:HIS:ND1	2.21	0.73
2:2:1055:ARG:NE	2:2:1055:ARG:HA	2.03	0.73
3:4:61:LEU:CD2	3:4:221:LEU:HD11	2.17	0.73
3:4:297:GLU:HB3	3:4:306:ILE:HD11	1.68	0.73
1:B:1008:GLY:H	1:B:1011:VAL:HG11	1.53	0.73
1:F:790:PRO:HG3	1:F:793:ARG:NH2	2.03	0.73
1:I:1149:THR:HG21	1:I:1160:GLU:O	1.87	0.73
2:2:247:MET:SD	2:2:843:GLU:HG3	2.28	0.73
1:E:237:GLU:HA	1:E:1151:ALA:HB3	1.70	0.73
1:F:790:PRO:CD	1:F:793:ARG:HH22	2.02	0.73
1:J:122:CYS:HB3	1:J:135:HIS:ND1	2.03	0.73
1:J:919:LEU:HD23	1:J:920:LEU:CB	2.17	0.73
2:2:17:LEU:HD23	2:2:166:ARG:HD2	1.69	0.73
2:2:507:ALA:HB2	2:2:511:LEU:CG	2.19	0.73
1:A:174:VAL:CG2	1:A:900:GLU:CA	2.66	0.73
1:H:320:ASP:OD2	1:H:322:THR:OG1	2.02	0.73
2:2:501:ALA:HB1	2:2:985:LEU:HG	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:577:ILE:CD1	2:2:790:LEU:O	2.36	0.73
1:F:614:GLN:HA	1:G:431:THR:HG21	1.71	0.73
1:B:595:GLN:CG	1:C:686:ARG:O	2.36	0.73
1:C:433:PRO:HD2	1:C:437:ARG:HH11	1.52	0.73
1:F:1019:THR:HG21	1:G:350:LEU:HB3	1.71	0.73
2:2:485:GLU:HG3	2:2:505:ARG:CZ	2.17	0.73
3:4:650:ARG:NH1	3:4:650:ARG:O	2.21	0.73
1:B:1008:GLY:CA	1:B:1011:VAL:CG1	2.66	0.73
1:D:656:PHE:C	1:D:674:ARG:HH11	1.84	0.73
1:C:518:LEU:CD2	1:C:820:VAL:CG2	2.64	0.73
1:H:690:ALA:H	1:H:691:PRO:HD2	1.54	0.73
2:2:1023:VAL:CG1	2:2:1130:LEU:CD1	2.66	0.73
1:A:174:VAL:CG1	1:A:900:GLU:HG2	2.19	0.73
2:2:572:LYS:O	2:2:572:LYS:HD3	1.89	0.73
1:A:150:THR:CB	1:A:151:PRO:HD2	2.10	0.72
1:F:461:ASN:HD22	1:F:918:ALA:CB	2.02	0.72
1:F:790:PRO:CG	1:F:793:ARG:NH2	2.52	0.72
2:2:387:PRO:HG2	2:2:671:ASP:HB2	1.70	0.72
3:4:57:THR:HG23	3:4:60:GLU:CB	2.18	0.72
1:B:787:ARG:NH1	1:B:923:LEU:HA	2.05	0.72
1:E:241:ASN:O	1:E:1147:PHE:HB3	1.89	0.72
1:H:806:THR:HG22	1:H:807:PHE:H	1.53	0.72
2:2:410:TRP:NE1	3:4:575:PRO:HG3	2.05	0.72
1:A:168:ARG:HH11	1:A:168:ARG:HA	1.54	0.72
1:A:174:VAL:HG21	1:A:900:GLU:CG	2.06	0.72
1:A:462:ILE:CD1	1:A:468:ALA:HB1	2.18	0.72
1:D:462:ILE:CG2	1:D:468:ALA:HB3	2.20	0.72
2:2:17:LEU:HD23	2:2:166:ARG:HD3	1.70	0.72
1:F:791:ALA:CB	1:F:792:GLN:HE22	2.01	0.72
1:I:199:GLY:O	1:I:1196:ARG:NH1	2.22	0.72
1:I:523:ASN:ND2	1:I:525:TYR:HE1	1.73	0.72
2:2:1023:VAL:CG1	2:2:1130:LEU:HD11	2.20	0.72
1:A:923:LEU:HD13	1:A:932:ALA:HB1	1.72	0.72
1:D:1019:THR:HG23	1:E:351:PRO:C	2.09	0.72
1:H:923:LEU:HD23	1:H:931:ILE:HG21	1.71	0.72
2:2:505:ARG:HG3	2:2:505:ARG:HH11	1.53	0.72
1:B:595:GLN:HG2	1:C:686:ARG:O	1.89	0.72
1:G:983:TYR:CD2	1:G:1003:PRO:HD2	2.25	0.72
1:B:257:ARG:O	1:B:259:LEU:N	2.23	0.72
1:D:159:SER:HB2	1:D:168:ARG:HH11	1.53	0.72
2:2:129:ALA:HB3	2:2:132:ALA:H	1.51	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:493:LYS:NZ	2:2:978:THR:OG1	2.19	0.72
1:B:1008:GLY:N	1:B:1011:VAL:HG11	2.03	0.72
1:C:241:ASN:O	1:C:1147:PHE:HB3	1.88	0.72
1:E:1016:ARG:HD2	1:F:1211:ARG:NH1	2.04	0.72
3:4:651:ARG:CG	3:4:713:GLU:CG	2.66	0.72
1:I:396:LEU:HD12	1:I:396:LEU:O	1.89	0.72
2:2:971:SER:HB2	2:2:974:ILE:O	1.88	0.72
1:B:1016:ARG:O	1:B:1017:PHE:HB2	1.88	0.72
1:F:324:ILE:HG23	1:F:325:THR:CG2	2.16	0.72
1:H:919:LEU:O	1:H:920:LEU:HB3	1.89	0.71
1:D:618:PRO:HG3	1:D:779:VAL:HG11	1.66	0.71
1:D:709:ILE:HG13	1:D:733:MET:HE3	1.72	0.71
1:H:688:THR:O	1:H:689:VAL:CG1	2.38	0.71
2:2:80:ARG:NH1	3:4:658:VAL:HG11	2.04	0.71
1:A:422:GLU:HB2	1:A:660:SER:HB2	1.71	0.71
3:4:283:ASP:OD1	3:4:598:LEU:CD2	2.39	0.71
3:4:473:ILE:HD11	3:4:564:LEU:CD1	2.20	0.71
1:B:257:ARG:HB3	1:B:257:ARG:NH1	2.02	0.71
1:I:1078:LEU:HD23	1:I:1078:LEU:H	1.55	0.71
2:2:502:GLN:CD	2:2:505:ARG:HH21	1.93	0.71
2:2:510:LEU:HD23	2:2:511:LEU:N	2.06	0.71
1:I:722:ASN:HD22	1:I:722:ASN:N	1.89	0.71
2:2:717:VAL:HG21	2:2:722:LEU:CD1	2.21	0.71
1:F:560:LEU:CD1	1:F:564:TRP:CD1	2.73	0.71
1:F:227:GLN:O	1:F:227:GLN:HG3	1.89	0.71
1:I:429:ASN:N	1:I:429:ASN:HD22	1.89	0.71
2:2:338:LEU:HD23	2:2:338:LEU:C	2.11	0.71
3:4:18:ASN:OD1	3:4:21:ASN:ND2	2.24	0.71
1:C:1122:PRO:HB2	1:C:1149:THR:HG21	1.72	0.71
1:G:601:ILE:HG12	1:G:622:PRO:HB3	1.73	0.71
1:H:464:SER:OG	1:H:804:HIS:NE2	2.23	0.71
2:2:284:ALA:CB	2:2:337:THR:HG21	2.19	0.71
2:2:987:TYR:HB3	2:2:992:LYS:HE3	1.72	0.71
1:B:832:ILE:HG21	1:B:1213:ALA:HB2	1.71	0.71
1:H:687:LEU:HD23	1:H:687:LEU:H	1.55	0.71
1:H:692:THR:CG2	1:H:693:TYR:CD2	2.74	0.71
2:2:502:GLN:OE1	2:2:505:ARG:CZ	2.38	0.71
1:D:1076:VAL:O	1:D:1078:LEU:CD1	2.39	0.70
1:G:167:ILE:CG2	1:G:525:TYR:CD2	2.74	0.70
1:H:1016:ARG:O	1:H:1051:VAL:HG22	1.90	0.70
1:J:126:PHE:HE2	1:J:135:HIS:CB	2.02	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:314:SER:HB3	1:F:1196:ARG:HD3	1.73	0.70
1:F:864:PHE:HD1	1:F:920:LEU:HD11	1.55	0.70
1:J:864:PHE:CZ	1:J:934:LEU:CD1	2.73	0.70
2:2:335:VAL:HB	2:2:336:PRO:HD3	1.73	0.70
3:4:61:LEU:HD23	3:4:61:LEU:O	1.92	0.70
3:4:657:LEU:HD11	3:4:668:VAL:HG11	1.72	0.70
2:2:497:ILE:HD11	2:2:498:TYR:CD1	2.26	0.70
2:2:509:MET:HE3	2:2:543:ALA:HB2	1.72	0.70
1:A:241:ASN:O	1:A:1147:PHE:HB3	1.92	0.70
1:E:656:PHE:HE2	1:E:675:MET:HB2	1.56	0.70
1:E:697:MET:CE	1:E:747:ILE:HG13	2.21	0.70
1:B:872:ALA:O	1:B:875:GLN:O	2.09	0.70
1:D:582:PRO:HB2	1:D:774:LEU:HD11	1.72	0.70
1:E:340:LEU:HD12	1:E:347:ARG:HH22	1.56	0.70
1:G:166:ASP:O	1:G:170:LEU:HD23	1.91	0.70
1:H:1019:THR:HG22	1:I:350:LEU:O	1.90	0.70
2:2:129:ALA:CB	2:2:132:ALA:N	2.52	0.70
1:A:260:GLU:HG2	1:A:307:SER:CB	2.21	0.70
1:D:1078:LEU:HD12	1:D:1078:LEU:N	2.06	0.70
1:I:525:TYR:HD1	1:I:525:TYR:H	1.39	0.70
2:2:496:LYS:O	2:2:499:GLN:N	2.24	0.70
3:4:302:ASP:O	3:4:305:ARG:HG2	1.91	0.70
3:4:538:ARG:NE	3:4:576:LEU:HD23	2.06	0.70
3:4:654:SER:O	3:4:672:PRO:HG2	1.90	0.70
1:E:189:ASN:OD1	1:E:856:ARG:NH1	2.22	0.70
1:F:228:MET:CE	1:F:230:GLN:HG2	2.22	0.70
1:G:429:ASN:HD22	1:G:429:ASN:N	1.90	0.70
1:J:120:ASN:OD1	1:J:121:VAL:N	2.24	0.70
1:J:923:LEU:CD2	1:J:931:ILE:HD13	2.22	0.70
2:2:497:ILE:CD1	2:2:498:TYR:N	2.41	0.70
3:4:480:THR:HG22	3:4:481:SER:N	2.07	0.70
3:4:664:GLN:NE2	3:4:664:GLN:HA	2.07	0.70
1:I:800:ILE:HG13	1:I:945:VAL:HG21	1.73	0.70
1:A:174:VAL:CG2	1:A:900:GLU:C	2.60	0.70
1:J:322:THR:HG22	1:J:323:THR:N	2.05	0.70
2:2:77:ASN:ND2	2:2:83:ARG:HD2	2.06	0.70
1:A:280:ARG:NH1	1:A:280:ARG:HB3	2.07	0.69
3:4:538:ARG:NH1	3:4:576:LEU:CD2	2.55	0.69
1:A:583:VAL:HG21	1:A:621:TRP:CD1	2.26	0.69
1:F:228:MET:CE	1:F:230:GLN:NE2	2.54	0.69
1:F:557:ILE:HD12	1:F:593:LEU:CD2	2.18	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:113:ASN:CG	1:H:114:PRO:HD2	2.12	0.69
2:2:75:ALA:H	2:2:85:PRO:CD	2.06	0.69
2:2:497:ILE:HD11	2:2:498:TYR:CE1	2.27	0.69
2:2:577:ILE:HG22	2:2:792:ALA:CB	2.22	0.69
1:D:1019:THR:HG23	1:E:352:THR:N	2.06	0.69
1:C:697:MET:CE	1:C:744:PRO:CB	2.65	0.69
1:C:1150:ASN:OD1	1:C:1156:THR:OG1	2.08	0.69
1:E:697:MET:HE3	1:E:744:PRO:HA	1.74	0.69
3:4:479:ASP:N	3:4:479:ASP:OD1	2.22	0.69
1:B:119:CYS:O	1:B:122:CYS:N	2.25	0.69
1:F:560:LEU:CD1	1:F:564:TRP:HD1	2.06	0.69
1:H:463:SER:OG	1:H:926:TYR:CZ	2.44	0.69
2:2:129:ALA:CB	2:2:132:ALA:HB2	2.21	0.69
2:2:510:LEU:HD23	2:2:510:LEU:C	2.13	0.69
2:2:1055:ARG:HA	2:2:1055:ARG:HE	1.56	0.69
3:4:314:ILE:HG23	3:4:356:VAL:HG12	1.73	0.69
1:D:724:LEU:O	1:D:724:LEU:HD12	1.91	0.69
1:H:687:LEU:HD23	1:H:687:LEU:N	2.06	0.69
1:J:121:VAL:CG2	1:J:136:LEU:HD23	2.15	0.69
1:J:790:PRO:HG3	1:J:793:ARG:HH12	1.57	0.69
1:B:16:PRO:O	1:B:17:ALA:HB3	1.91	0.69
1:D:777:ASN:OD1	1:D:942:GLY:HA3	1.92	0.69
1:E:338:GLU:HA	1:E:338:GLU:OE2	1.91	0.69
2:2:577:ILE:HG22	2:2:792:ALA:HB3	1.73	0.69
1:F:314:SER:CB	1:F:1196:ARG:HD3	2.21	0.69
1:G:720:THR:HG22	1:I:734:THR:HG21	1.75	0.69
2:2:484:PRO:CB	2:2:503:ILE:HG23	2.22	0.69
1:C:1122:PRO:CB	1:C:1149:THR:CG2	2.71	0.69
1:I:164:TRP:CE3	1:I:167:ILE:CD1	2.56	0.69
2:2:1230:SER:OG	2:2:1231:PRO:HD3	1.92	0.69
1:A:166:ASP:CB	1:A:280:ARG:CD	2.63	0.69
2:2:488:ASP:HB3	2:2:977:ILE:CG2	2.23	0.69
3:4:538:ARG:CZ	3:4:576:LEU:HD23	2.23	0.69
1:B:793:ARG:CD	1:B:795:ASP:O	2.41	0.69
1:C:518:LEU:HD23	1:C:518:LEU:C	2.13	0.69
1:F:560:LEU:O	1:F:560:LEU:HD13	1.92	0.69
2:2:722:LEU:C	2:2:722:LEU:HD13	2.13	0.69
3:4:473:ILE:HG12	3:4:564:LEU:CG	2.23	0.69
1:A:519:GLN:HE21	1:A:519:GLN:C	1.96	0.68
1:F:252:LEU:HD21	1:F:335:GLY:H	1.58	0.68
1:H:460:VAL:HG11	1:H:923:LEU:CD1	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:463:SER:OG	1:H:926:TYR:OH	2.10	0.68
1:I:697:MET:HG2	1:I:744:PRO:HG3	1.75	0.68
2:2:991:LEU:HD13	2:2:991:LEU:C	2.13	0.68
1:A:248:ASN:CB	1:A:260:GLU:OE2	2.40	0.68
1:J:983:TYR:CD1	1:J:1003:PRO:HG3	2.29	0.68
1:B:864:PHE:HB2	1:B:920:LEU:HD21	1.74	0.68
1:C:429:ASN:HD22	1:C:429:ASN:N	1.88	0.68
1:C:518:LEU:HD23	1:C:518:LEU:O	1.92	0.68
1:C:1006:ARG:NH2	1:C:1013:VAL:HG11	2.09	0.68
1:J:242:ARG:NH1	1:J:1145:SER:OG	2.26	0.68
2:2:487:ASP:HB2	2:2:489:SER:O	1.93	0.68
1:B:773:ARG:O	1:B:773:ARG:HD3	1.93	0.68
1:D:158:ARG:HE	1:D:1203:THR:HG22	1.56	0.68
2:2:247:MET:O	2:2:839:LEU:HD11	1.89	0.68
1:A:520:PRO:HB3	2:2:1168:GLN:OE1	1.94	0.68
1:F:404:MET:SD	1:F:956:HIS:CE1	2.86	0.68
3:4:655:ARG:HB3	3:4:672:PRO:O	1.92	0.68
3:4:657:LEU:HD12	3:4:668:VAL:CG1	2.07	0.68
2:2:75:ALA:H	2:2:85:PRO:HD3	1.57	0.68
1:B:774:LEU:HD22	1:B:774:LEU:N	2.09	0.68
2:2:87:ILE:O	2:2:88:ASP:HB3	1.94	0.68
1:E:340:LEU:CD1	1:E:347:ARG:HH22	2.07	0.68
1:F:228:MET:HE3	1:F:230:GLN:CD	2.14	0.68
1:G:255:GLU:CG	1:G:256:GLY:N	2.55	0.68
3:4:629:LEU:HB2	3:4:698:ARG:HH21	1.59	0.68
1:A:177:LYS:HB3	1:A:177:LYS:HZ2	1.56	0.68
1:G:171:SER:CB	1:G:172:PRO:HD3	2.17	0.68
3:4:65:LEU:HD13	3:4:65:LEU:C	2.14	0.68
1:A:1050:ASP:OD2	1:B:1214:THR:CG2	2.38	0.68
1:D:159:SER:O	1:D:169:ILE:O	2.12	0.68
1:D:462:ILE:CG2	1:D:468:ALA:CB	2.72	0.68
1:C:686:ARG:C	1:C:687:LEU:HD12	2.13	0.68
1:G:354:THR:HG22	1:G:1153:SER:O	1.94	0.68
1:B:787:ARG:HH11	1:B:923:LEU:HA	1.57	0.67
1:G:355:LYS:HB2	1:G:355:LYS:NZ	2.09	0.67
1:I:460:VAL:O	1:I:787:ARG:NH1	2.27	0.67
2:2:1036:LYS:O	2:2:1036:LYS:HG2	1.94	0.67
1:B:860:THR:CG2	1:B:920:LEU:CD1	2.72	0.67
1:A:1017:PHE:CE1	1:B:1211:ARG:HG2	2.29	0.67
1:D:717:MET:HG3	1:D:721:VAL:CG1	2.23	0.67
3:4:621:TRP:HD1	3:4:703:GLY:H	1.31	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:875:GLN:HE22	1:B:930:ARG:CB	2.06	0.67
1:E:891:PHE:CD1	1:F:1214:THR:OG1	2.46	0.67
2:2:577:ILE:CD1	2:2:790:LEU:HB2	2.23	0.67
1:B:215:LEU:HD22	1:B:215:LEU:N	2.10	0.67
1:D:1076:VAL:CG1	1:D:1078:LEU:HD11	2.22	0.67
1:E:243:ILE:HG13	1:E:1147:PHE:HB2	1.77	0.67
1:E:1016:ARG:HD2	1:F:1211:ARG:HH12	1.58	0.67
1:H:606:MET:N	1:H:606:MET:SD	2.67	0.67
1:I:466:THR:CG2	1:I:809:ALA:HA	2.24	0.67
3:4:282:PHE:CE1	3:4:642:ALA:HB2	2.29	0.67
1:D:71:SER:O	1:D:79:ILE:CG2	2.26	0.67
1:C:697:MET:HE3	1:C:744:PRO:HG3	1.74	0.67
2:2:577:ILE:HD11	2:2:790:LEU:HB2	1.75	0.67
1:A:1016:ARG:NE	1:B:1211:ARG:HH21	1.71	0.67
1:E:538:ASN:ND2	1:E:771:PHE:CZ	2.62	0.67
1:F:919:LEU:C	1:F:919:LEU:HD22	2.14	0.67
1:I:236:PRO:HG2	1:I:241:ASN:HD22	1.60	0.67
2:2:458:ARG:NH1	2:2:508:PHE:O	2.28	0.67
2:2:1078:ILE:HG22	2:2:1079:PRO:HD2	1.76	0.67
3:4:297:GLU:CB	3:4:306:ILE:CD1	2.69	0.67
1:B:1008:GLY:C	1:B:1011:VAL:CG1	2.63	0.67
1:H:463:SER:O	1:H:464:SER:HB3	1.92	0.67
1:J:792:GLN:O	1:J:792:GLN:HG2	1.95	0.67
2:2:93:VAL:CG2	2:2:389:MET:HG3	2.23	0.67
2:2:1180:LEU:C	2:2:1180:LEU:HD23	2.14	0.67
3:4:538:ARG:CZ	3:4:576:LEU:CD2	2.72	0.67
3:4:646:ALA:O	3:4:650:ARG:HG3	1.95	0.67
1:A:179:LEU:H	1:A:179:LEU:HD12	1.59	0.67
1:A:580:HIS:ND1	1:A:616:SER:O	2.28	0.67
1:G:167:ILE:CG2	1:G:525:TYR:HB3	2.24	0.67
1:I:466:THR:OG1	1:I:809:ALA:CB	2.33	0.67
2:2:288:ARG:HG3	2:2:288:ARG:NH1	2.09	0.67
2:2:798:ILE:HA	2:2:1090:ALA:HB2	1.76	0.67
3:4:368:GLU:CG	3:4:372:ALA:CB	2.73	0.67
1:B:463:SER:HB2	1:B:926:TYR:OH	1.95	0.67
1:D:978:ALA:HB3	1:D:1081:TYR:CE2	2.30	0.67
1:F:939:LEU:HB3	1:F:945:VAL:HG12	1.76	0.67
1:H:1020:ILE:HD13	1:H:1020:ILE:N	2.09	0.67
1:I:679:TRP:HZ2	1:I:697:MET:HE1	1.51	0.67
2:2:82:GLU:HB2	2:2:386:GLN:HE22	1.59	0.67
2:2:86:THR:CG2	2:2:89:ASN:O	2.44	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:129:ALA:O	2:2:131:ARG:C	2.33	0.67
3:4:65:LEU:HD11	3:4:198:LEU:CD2	2.24	0.67
3:4:644:ALA:HA	3:4:648:ILE:HG13	1.76	0.67
1:C:689:VAL:HB	1:C:745:PHE:CE2	2.30	0.66
1:G:147:LEU:HD22	1:G:147:LEU:N	2.09	0.66
3:4:663:ASP:O	3:4:702:ASN:ND2	2.27	0.66
1:A:168:ARG:HH11	1:A:168:ARG:CB	2.08	0.66
1:A:179:LEU:HD23	1:A:182:TYR:CZ	2.29	0.66
1:B:215:LEU:HD22	1:B:215:LEU:H	1.60	0.66
1:B:227:GLN:OE1	1:B:229:TYR:HE1	1.76	0.66
1:D:879:PHE:HB2	1:D:932:ALA:HB2	1.76	0.66
3:4:57:THR:HG22	3:4:60:GLU:HB2	1.35	0.66
1:B:775:VAL:HG12	1:B:778:ASP:OD1	1.93	0.66
1:D:156:ALA:CB	1:D:444:TRP:CE2	2.78	0.66
1:F:919:LEU:O	1:F:919:LEU:HD13	1.94	0.66
1:G:170:LEU:HD23	1:G:170:LEU:H	1.59	0.66
1:J:126:PHE:HB2	1:J:131:ALA:HB3	1.77	0.66
1:J:1050:ASP:O	1:J:1054:VAL:HG13	1.95	0.66
1:A:429:ASN:HD21	1:A:1211:ARG:CG	2.08	0.66
1:E:450:ASP:HB2	1:E:861:ARG:HD3	1.77	0.66
1:J:1060:ARG:NH2	1:J:1101:GLU:O	2.28	0.66
3:4:629:LEU:HD21	3:4:693:TRP:CZ3	2.30	0.66
1:B:123:ASN:OD1	1:B:161:LEU:HD12	1.96	0.66
1:F:324:ILE:O	1:F:325:THR:HG23	1.95	0.66
1:F:552:ASP:N	1:F:552:ASP:OD1	2.25	0.66
1:I:390:LEU:O	1:I:390:LEU:HD13	1.94	0.66
2:2:799:PRO:CD	2:2:1090:ALA:CB	2.73	0.66
2:2:976:GLN:NE2	2:2:978:THR:H	1.93	0.66
3:4:633:CYS:SG	3:4:657:LEU:CD1	2.84	0.66
1:D:322:THR:O	1:D:326:SER:OG	2.13	0.66
1:D:658:TYR:O	1:D:673:ASN:ND2	2.29	0.66
1:F:790:PRO:N	1:F:793:ARG:NH2	2.43	0.66
1:A:429:ASN:HD21	1:A:1211:ARG:HG3	1.61	0.66
1:B:1010:ASN:HD22	1:B:1010:ASN:N	1.93	0.66
1:D:1005:VAL:HG22	1:D:1007:GLY:H	1.61	0.66
1:A:174:VAL:HG21	1:A:900:GLU:C	2.15	0.66
1:A:179:LEU:O	1:A:179:LEU:HD22	1.96	0.66
1:G:171:SER:OG	1:G:172:PRO:CD	2.37	0.66
1:G:973:ASN:HB2	1:G:1144:ASP:HB2	1.78	0.66
1:I:390:LEU:O	1:I:390:LEU:HD22	1.95	0.66
2:2:500:ALA:HB3	2:2:539:VAL:HG21	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:686:ARG:CD	1:C:687:LEU:HD13	2.26	0.66
1:G:371:LEU:HD21	1:G:388:MET:HG3	1.78	0.66
1:H:119:CYS:SG	1:H:135:HIS:CD2	2.88	0.66
1:J:124:ALA:CB	1:J:135:HIS:CE1	2.77	0.66
1:A:174:VAL:HG11	1:A:277:VAL:HG23	1.77	0.65
1:D:458:HIS:O	1:D:462:ILE:HG13	1.96	0.65
1:C:428:LEU:C	1:C:429:ASN:HD22	1.98	0.65
1:I:237:GLU:HA	1:I:1151:ALA:HB3	1.78	0.65
1:I:427:LEU:HD13	1:I:837:TYR:CB	2.25	0.65
1:I:524:ASP:OD2	1:I:814:ASP:HB2	1.96	0.65
1:C:518:LEU:CD2	1:C:820:VAL:HG21	2.26	0.65
1:F:220:ILE:CG2	1:F:228:MET:SD	2.84	0.65
2:2:495:SER:N	2:2:499:GLN:OE1	2.30	0.65
1:B:122:CYS:CB	1:B:139:ASP:OD1	2.45	0.65
1:H:322:THR:HG21	1:H:348:ALA:HB2	1.77	0.65
1:H:1019:THR:HG22	1:I:351:PRO:C	2.17	0.65
1:I:697:MET:CB	1:I:744:PRO:HB3	2.26	0.65
2:2:987:TYR:CD1	2:2:992:LYS:HG3	2.30	0.65
1:A:166:ASP:HB2	1:A:280:ARG:NE	2.09	0.65
1:A:428:LEU:C	1:A:428:LEU:HD13	2.16	0.65
1:D:474:GLU:OE1	1:D:474:GLU:HA	1.96	0.65
1:G:255:GLU:HG3	1:G:256:GLY:O	1.95	0.65
1:A:519:GLN:NE2	1:A:519:GLN:H	1.94	0.65
1:A:519:GLN:NE2	1:A:519:GLN:O	2.26	0.65
1:B:775:VAL:HG11	1:B:778:ASP:OD1	1.95	0.65
1:C:517:LEU:HD13	1:C:517:LEU:C	2.15	0.65
1:E:525:TYR:CD1	1:E:820:VAL:HG11	2.32	0.65
1:G:355:LYS:CD	1:G:1149:THR:O	2.44	0.65
2:2:74:PHE:CE2	2:2:84:ILE:HB	2.32	0.65
2:2:493:LYS:HZ3	2:2:978:THR:CB	2.08	0.65
2:2:502:GLN:O	2:2:505:ARG:NE	2.29	0.65
2:2:1023:VAL:HB	2:2:1129:GLY:HA3	1.77	0.65
3:4:473:ILE:HD13	3:4:560:ALA:HB1	1.78	0.65
1:D:156:ALA:CB	1:D:444:TRP:CZ2	2.80	0.65
1:D:255:GLU:OE1	1:D:255:GLU:HA	1.95	0.65
1:E:234:PRO:HA	1:E:341:ALA:O	1.96	0.65
1:E:524:ASP:C	1:E:525:TYR:CD2	2.70	0.65
2:2:287:LEU:HD12	2:2:287:LEU:C	2.15	0.65
3:4:664:GLN:HA	3:4:664:GLN:HE21	1.62	0.65
1:B:860:THR:HG23	1:B:920:LEU:CD1	2.25	0.65
1:G:157:ILE:CD1	1:G:494:THR:HG23	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:727:ARG:HG3	1:G:727:ARG:HH11	1.62	0.65
1:I:201:CYS:HB3	1:I:399:ARG:HH11	1.61	0.65
2:2:387:PRO:HG2	2:2:671:ASP:CB	2.26	0.65
3:4:62:LEU:HD22	3:4:224:LEU:HD12	1.79	0.65
3:4:655:ARG:HA	3:4:672:PRO:HB2	1.79	0.65
3:4:674:LEU:C	3:4:674:LEU:CD2	2.62	0.65
1:F:1014:VAL:HG12	1:F:1046:VAL:O	1.96	0.65
1:G:930:ARG:NE	1:H:689:VAL:HB	2.12	0.65
2:2:507:ALA:HB2	2:2:511:LEU:CD2	2.09	0.65
2:2:1053:ILE:O	2:2:1056:PRO:HD3	1.97	0.65
3:4:705:ASN:OD1	3:4:706:VAL:N	2.29	0.65
1:A:179:LEU:O	1:A:179:LEU:HD13	1.97	0.65
1:G:198:THR:CG2	1:G:315:SER:HB2	2.27	0.65
2:2:247:MET:CB	2:2:839:LEU:HD11	2.26	0.65
1:C:1122:PRO:HB2	1:C:1149:THR:CG2	2.25	0.65
1:F:790:PRO:CA	1:F:793:ARG:HH21	1.89	0.65
1:G:168:ARG:HA	1:G:171:SER:HB2	1.78	0.65
1:J:126:PHE:CB	1:J:131:ALA:HB3	2.27	0.65
3:4:480:THR:HG22	3:4:481:SER:H	1.61	0.65
1:A:413:PRO:HA	1:A:416:ILE:HG22	1.79	0.64
1:A:462:ILE:CD1	1:A:468:ALA:CB	2.75	0.64
1:D:656:PHE:C	1:D:674:ARG:HH12	1.97	0.64
1:C:514:ILE:HA	1:C:517:LEU:HB3	1.79	0.64
1:C:879:PHE:O	1:C:881:VAL:N	2.31	0.64
1:G:151:PRO:CG	2:2:1259:SER:HB2	2.27	0.64
1:I:697:MET:CG	1:I:744:PRO:HG3	2.27	0.64
1:I:1077:GLU:HG3	1:I:1077:GLU:O	1.95	0.64
2:2:722:LEU:HD13	2:2:722:LEU:O	1.96	0.64
3:4:629:LEU:HD12	3:4:630:GLU:N	2.12	0.64
1:A:858:VAL:HG13	1:A:861:ARG:HH21	1.62	0.64
1:D:158:ARG:HG3	1:D:1203:THR:CG2	2.27	0.64
1:D:723:ASP:HB2	1:C:616:SER:HB3	1.79	0.64
1:E:210:ILE:HG22	1:E:239:ALA:HB3	1.78	0.64
1:E:532:ILE:HD11	1:E:747:ILE:HD11	1.79	0.64
1:F:1032:ILE:CD1	1:G:353:GLN:OE1	2.44	0.64
2:2:1126:VAL:HG23	2:2:1128:SER:H	1.63	0.64
3:4:631:VAL:HG21	3:4:666:MET:CE	2.27	0.64
1:B:460:VAL:HG11	1:B:923:LEU:HD12	1.78	0.64
2:2:502:GLN:OE1	2:2:505:ARG:NH2	2.31	0.64
1:G:355:LYS:HB2	1:G:355:LYS:HZ3	1.60	0.64
2:2:105:THR:HG21	2:2:117:HIS:CE1	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:292:ARG:HH11	2:2:328:PRO:HB2	1.61	0.64
3:4:62:LEU:HD12	3:4:62:LEU:C	2.18	0.64
1:G:930:ARG:HD2	1:H:689:VAL:HG11	1.80	0.64
1:I:427:LEU:CD1	1:I:837:TYR:HB3	2.27	0.64
1:F:324:ILE:O	1:F:325:THR:CB	2.45	0.64
3:4:617:ARG:NH1	3:4:626:ASP:HB3	2.12	0.64
1:B:650:TRP:HB3	1:B:773:ARG:HH21	1.62	0.64
2:2:458:ARG:HH11	2:2:509:MET:HG2	1.62	0.64
3:4:349:ALA:O	3:4:353:SER:HB3	1.98	0.64
1:D:1122:PRO:O	1:D:1150:ASN:ND2	2.30	0.64
1:E:656:PHE:CE2	1:E:675:MET:HB2	2.32	0.64
1:G:151:PRO:HG3	2:2:1259:SER:HB2	1.79	0.64
1:H:455:GLN:HE21	1:H:455:GLN:C	2.02	0.64
1:H:1020:ILE:HG12	1:H:1058:VAL:CG2	2.28	0.64
2:2:129:ALA:C	2:2:131:ARG:H	2.01	0.64
2:2:256:LEU:HD23	2:2:256:LEU:C	2.18	0.64
1:A:174:VAL:HG21	1:A:900:GLU:CB	2.28	0.64
1:F:489:ASP:HB3	1:F:826:GLN:HE21	1.63	0.64
1:I:465:ASN:CB	1:J:500:ILE:CA	2.68	0.64
2:2:489:SER:HB3	2:2:969:ALA:CB	2.28	0.64
1:A:517:LEU:HD11	1:A:568:PHE:HE2	1.60	0.63
1:A:920:LEU:HD13	1:A:920:LEU:O	1.99	0.63
1:D:709:ILE:HG13	1:D:733:MET:CE	2.26	0.63
1:F:555:GLN:NE2	1:G:835:HIS:ND1	2.45	0.63
1:J:324:ILE:C	1:J:325:THR:HG23	2.17	0.63
1:J:923:LEU:HD23	1:J:931:ILE:HD13	1.80	0.63
2:2:505:ARG:HH11	2:2:505:ARG:CG	2.11	0.63
1:B:740:LYS:NZ	1:B:742:MET:SD	2.71	0.63
1:J:322:THR:CG2	1:J:348:ALA:HB2	2.27	0.63
2:2:1074:LEU:HD13	2:2:1249:ARG:CZ	2.28	0.63
1:B:410:HIS:HD2	1:B:442:CYS:H	1.44	0.63
1:D:663:GLN:HG2	1:D:850:MET:CE	2.27	0.63
1:I:331:ARG:NH2	1:I:389:GLU:OE1	2.28	0.63
1:J:195:ILE:HD11	1:J:255:GLU:O	1.97	0.63
3:4:18:ASN:O	3:4:21:ASN:N	2.32	0.63
1:B:215:LEU:H	1:B:215:LEU:CD2	2.12	0.63
1:E:663:GLN:HE22	1:E:850:MET:CE	2.08	0.63
1:F:791:ALA:HB3	1:F:792:GLN:HE22	1.62	0.63
1:J:252:LEU:HD21	1:J:335:GLY:HA3	1.79	0.63
2:2:25:LEU:HD23	2:2:25:LEU:H	1.63	0.63
2:2:105:THR:CG2	2:2:117:HIS:CE1	2.82	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:292:ARG:HH11	2:2:292:ARG:HG2	1.63	0.63
1:A:169:ILE:HD12	1:A:272:HIS:CE1	2.33	0.63
1:A:504:THR:O	2:2:1227:ILE:HD13	1.98	0.63
1:G:162:THR:O	1:G:165:ASP:N	2.23	0.63
1:H:690:ALA:H	1:H:691:PRO:CD	2.11	0.63
2:2:497:ILE:CD1	2:2:498:TYR:CG	2.81	0.63
1:C:356:ASN:CG	1:C:1151:ALA:HB1	2.19	0.63
2:2:123:ASP:O	2:2:127:LEU:O	2.16	0.63
3:4:65:LEU:HD12	3:4:199:PRO:HD2	1.80	0.63
1:A:515:LEU:O	1:A:518:LEU:O	2.16	0.63
1:B:875:GLN:NE2	1:B:930:ARG:CG	2.62	0.63
1:C:432:ILE:CD1	1:C:1207:ILE:O	2.47	0.63
1:G:595:GLN:HB2	1:I:693:TYR:CE2	2.33	0.63
1:H:919:LEU:O	1:H:919:LEU:HD13	1.99	0.63
2:2:122:ASN:O	2:2:126:THR:HG23	1.98	0.63
3:4:62:LEU:HD22	3:4:224:LEU:CD1	2.28	0.63
1:B:874:CYS:HB3	1:B:893:VAL:HG21	1.79	0.63
1:D:394:LEU:HB2	1:D:1188:ILE:HD13	1.80	0.63
1:G:428:LEU:C	1:G:429:ASN:HD22	2.02	0.63
2:2:117:HIS:ND1	2:2:118:PRO:CD	2.59	0.63
2:2:1088:GLN:NE2	2:2:1103:TYR:HB3	2.09	0.63
3:4:305:ARG:HB2	3:4:305:ARG:NH1	2.14	0.63
1:D:160:PHE:HE1	1:D:1208:MET:CE	1.94	0.63
1:G:175:SER:HB2	1:G:178:SER:HB3	1.81	0.63
1:A:179:LEU:H	1:A:179:LEU:CD1	2.12	0.62
1:B:219:LEU:HD23	1:B:351:PRO:C	2.20	0.62
1:D:618:PRO:HG2	1:D:779:VAL:CG1	2.10	0.62
1:I:166:ASP:CG	1:I:525:TYR:CE2	2.69	0.62
2:2:484:PRO:HB2	2:2:503:ILE:HG23	1.81	0.62
2:2:511:LEU:O	2:2:514:ALA:N	2.22	0.62
2:2:746:LEU:HD11	2:2:759:MET:HE3	1.80	0.62
2:2:1091:GLY:O	2:2:1093:ASP:OD1	2.18	0.62
1:A:1106:LYS:HB2	1:A:1113:PRO:HG3	1.81	0.62
1:B:875:GLN:NE2	1:B:930:ARG:HB3	2.12	0.62
1:E:240:VAL:HG13	1:E:1146:LEU:CD1	2.28	0.62
1:E:1023:ARG:HD3	1:E:1023:ARG:N	2.14	0.62
1:F:461:ASN:HD22	1:F:918:ALA:HB3	1.64	0.62
1:F:790:PRO:N	1:F:793:ARG:HH22	1.97	0.62
3:4:362:ARG:H	3:4:362:ARG:HD3	1.64	0.62
3:4:700:LEU:O	3:4:701:LEU:HB2	1.99	0.62
1:E:697:MET:HE2	1:E:747:ILE:HB	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:583:VAL:HG21	1:A:621:TRP:CG	2.34	0.62
1:D:1016:ARG:NH2	1:D:1017:PHE:CE2	2.67	0.62
1:C:1146:LEU:HD22	1:C:1146:LEU:C	2.18	0.62
1:F:228:MET:CE	1:F:230:GLN:HE21	2.11	0.62
1:H:334:GLU:OE1	1:H:334:GLU:HA	1.98	0.62
2:2:95:VAL:HG13	2:2:96:PRO:HD2	1.82	0.62
2:2:451:PRO:HB3	2:2:989:SER:OG	1.99	0.62
2:2:485:GLU:CD	2:2:505:ARG:HH22	2.02	0.62
3:4:524:ASP:N	3:4:524:ASP:OD1	2.33	0.62
3:4:665:LEU:HD23	3:4:665:LEU:H	1.65	0.62
1:A:279:SER:O	1:A:283:ILE:HG22	1.98	0.62
1:A:1017:PHE:CE1	1:B:1211:ARG:CG	2.82	0.62
1:C:543:THR:HG1	1:C:577:SER:H	1.46	0.62
1:E:656:PHE:HD1	1:E:752:PRO:HB3	1.64	0.62
1:J:1106:LYS:HB2	1:J:1113:PRO:HG3	1.81	0.62
2:2:1078:ILE:CD1	2:2:1203:TYR:CE2	2.81	0.62
1:A:168:ARG:NH2	3:4:367:LEU:CA	2.52	0.62
1:A:259:LEU:HD11	1:A:303:GLN:HG2	1.82	0.62
1:D:876:ASP:OD2	1:D:892:ASP:OD2	2.17	0.62
1:C:174:VAL:HG11	1:C:179:LEU:HD12	1.82	0.62
1:E:519:GLN:OE1	1:E:521:MET:CE	2.47	0.62
3:4:641:ARG:O	3:4:645:THR:HG23	2.00	0.62
1:A:413:PRO:HA	1:A:416:ILE:CG2	2.30	0.62
1:B:389:GLU:OE2	1:B:1196:ARG:NH2	2.33	0.62
1:C:1001:ALA:HB1	1:C:1002:PRO:HD2	1.82	0.62
1:E:620:VAL:HG11	1:F:718:THR:HG21	1.80	0.62
1:E:656:PHE:CE2	1:E:675:MET:CB	2.76	0.62
1:G:170:LEU:O	1:G:170:LEU:HG	1.99	0.62
1:G:355:LYS:HD3	1:G:1149:THR:O	1.98	0.62
2:2:284:ALA:HB1	2:2:337:THR:HG21	1.81	0.62
1:A:511:ILE:HD11	1:A:732:VAL:HG23	1.80	0.62
1:G:616:SER:HB2	1:H:723:ASP:HB2	1.80	0.62
1:G:894:THR:HG22	1:H:687:LEU:CD1	2.27	0.62
1:J:906:ASN:OD1	1:J:919:LEU:HD22	1.98	0.62
2:2:497:ILE:HD12	2:2:498:TYR:CG	2.34	0.62
1:A:920:LEU:O	1:A:920:LEU:HD22	1.99	0.62
1:E:697:MET:CE	1:E:747:ILE:CG1	2.75	0.62
1:I:201:CYS:O	1:I:395:THR:HG21	1.97	0.62
2:2:1133:GLU:HG2	2:2:1185:ARG:HH21	1.65	0.62
1:B:595:GLN:HB3	1:C:687:LEU:CD1	2.28	0.62
1:D:472:LEU:CD1	1:D:764:THR:HG21	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:461:ASN:ND2	1:F:918:ALA:CB	2.63	0.62
1:I:164:TRP:O	1:I:167:ILE:HG12	2.00	0.62
1:J:209:ASN:OD1	1:J:209:ASN:N	2.30	0.62
1:J:880:LEU:O	1:J:880:LEU:HD23	1.99	0.62
2:2:1078:ILE:CG2	2:2:1079:PRO:HD2	2.29	0.62
1:A:518:LEU:C	1:A:518:LEU:HD23	2.20	0.61
1:G:345:PRO:O	1:G:360:LEU:HD22	2.00	0.61
1:H:919:LEU:O	1:H:919:LEU:HD22	1.99	0.61
1:I:428:LEU:C	1:I:429:ASN:HD22	2.03	0.61
1:I:456:VAL:HG21	1:I:950:VAL:HG11	1.82	0.61
1:I:697:MET:HE2	1:I:697:MET:CA	2.26	0.61
1:A:1016:ARG:CZ	1:B:1211:ARG:HH22	2.13	0.61
1:B:1008:GLY:N	1:B:1011:VAL:CG1	2.63	0.61
1:I:201:CYS:HA	1:I:399:ARG:NH1	2.15	0.61
2:2:386:GLN:HB3	2:2:389:MET:HB2	1.82	0.61
1:A:412:ASP:OD1	1:A:412:ASP:N	2.32	0.61
1:A:1186:ASN:HD22	1:A:1186:ASN:C	2.03	0.61
1:B:123:ASN:ND2	1:B:168:ARG:NH2	2.48	0.61
1:D:38:SER:N	1:D:39:PRO:HD3	2.15	0.61
1:E:344:TYR:HB3	1:E:368:ILE:HD11	1.82	0.61
1:I:239:ALA:O	1:I:1149:THR:C	2.39	0.61
2:2:80:ARG:HH12	3:4:658:VAL:CG1	2.11	0.61
2:2:576:LEU:O	2:2:579:TYR:N	2.33	0.61
3:4:621:TRP:CG	3:4:703:GLY:O	2.53	0.61
1:E:538:ASN:C	1:E:540:LEU:H	2.04	0.61
1:H:603:VAL:HG13	1:H:606:MET:HB2	1.80	0.61
1:E:1023:ARG:HB3	1:E:1024:PRO:HD2	1.82	0.61
1:F:228:MET:HE3	1:F:230:GLN:HG2	1.82	0.61
1:F:257:ARG:NH1	1:F:309:LEU:O	2.33	0.61
1:I:734:THR:O	1:I:737:ARG:HG2	2.01	0.61
1:J:121:VAL:HG22	1:J:136:LEU:HD21	1.82	0.61
1:J:227:GLN:OE1	1:J:229:TYR:CE1	2.53	0.61
1:J:721:VAL:HG23	1:J:725:THR:HB	1.83	0.61
3:4:609:ALA:HB2	3:4:657:LEU:HD21	1.78	0.61
1:B:464:SER:O	1:B:464:SER:OG	2.17	0.61
1:F:220:ILE:HG22	1:F:228:MET:CE	2.31	0.61
1:I:982:LEU:HD23	1:I:1078:LEU:HD21	1.81	0.61
1:E:847:SER:O	1:E:849:ALA:N	2.31	0.61
2:2:500:ALA:HB3	2:2:539:VAL:CG2	2.31	0.61
3:4:638:VAL:HG21	3:4:643:ALA:H	1.65	0.61
1:D:159:SER:CB	1:D:168:ARG:HH11	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:184:ASP:OD1	1:E:184:ASP:N	2.34	0.61
1:E:370:ARG:HA	1:E:387:CYS:HA	1.82	0.61
1:F:118:VAL:HG13	1:F:125:ARG:HB3	1.82	0.61
1:F:252:LEU:HD13	1:F:333:PHE:HB3	1.80	0.61
1:I:973:ASN:ND2	1:I:1144:ASP:OD2	2.32	0.61
1:I:1122:PRO:HG2	1:I:1149:THR:OG1	2.00	0.61
2:2:115:PHE:HD1	2:2:115:PHE:H	1.48	0.61
1:A:422:GLU:OE1	1:A:660:SER:CA	2.48	0.61
1:B:122:CYS:HB3	1:B:139:ASP:OD1	2.01	0.61
1:F:193:LEU:HD21	1:F:859:ILE:HD11	1.83	0.61
1:G:164:TRP:O	1:G:167:ILE:HG12	1.99	0.61
1:H:1021:VAL:HG13	1:H:1021:VAL:O	2.01	0.61
1:H:1054:VAL:O	1:H:1054:VAL:HG23	2.01	0.61
1:I:1106:LYS:HB2	1:I:1113:PRO:HG3	1.82	0.61
3:4:348:LEU:O	3:4:352:MET:HG2	2.01	0.61
1:A:430:SER:OG	1:A:1210:VAL:HG22	2.01	0.61
1:C:595:GLN:HB2	1:E:693:TYR:CE2	2.36	0.61
1:G:235:LEU:HB2	1:G:356:ASN:HD21	1.65	0.61
1:J:571:LEU:HD11	1:J:705:ILE:HD11	1.83	0.61
1:A:171:SER:OG	1:A:172:PRO:CD	2.41	0.60
1:B:906:ASN:HD21	1:B:910:LYS:HE3	1.65	0.60
1:E:1006:ARG:HH11	1:E:1077:GLU:CD	2.04	0.60
1:F:228:MET:HE3	1:F:230:GLN:CG	2.31	0.60
1:H:117:TYR:O	1:H:125:ARG:CB	2.49	0.60
1:J:921:ASP:C	1:J:923:LEU:N	2.53	0.60
2:2:489:SER:CB	2:2:969:ALA:HB3	2.31	0.60
2:2:497:ILE:HD12	2:2:498:TYR:CA	2.30	0.60
2:2:1078:ILE:HG21	2:2:1207:HIS:CE1	2.36	0.60
3:4:607:LEU:CD2	3:4:655:ARG:NH2	2.62	0.60
3:4:633:CYS:SG	3:4:657:LEU:HD22	2.39	0.60
1:D:1076:VAL:O	1:D:1078:LEU:HD12	2.02	0.60
1:F:462:ILE:HG22	1:F:462:ILE:O	2.01	0.60
1:I:524:ASP:OD2	1:I:814:ASP:N	2.32	0.60
2:2:458:ARG:HH11	2:2:509:MET:CG	2.14	0.60
1:B:321:VAL:HG23	1:B:321:VAL:O	2.01	0.60
1:F:795:ASP:OD1	1:G:375:ASN:OD1	2.19	0.60
1:F:1019:THR:HG23	1:G:350:LEU:O	1.98	0.60
1:G:720:THR:CG2	1:I:734:THR:HG21	2.30	0.60
1:H:455:GLN:O	1:H:455:GLN:NE2	2.20	0.60
1:J:783:VAL:HG12	1:J:807:PHE:HB2	1.83	0.60
2:2:30:PHE:CZ	2:2:853:CYS:HA	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:474:GLU:HG3	2:2:444:GLN:HB3	1.83	0.60
1:H:590:ALA:HB1	1:H:608:GLN:HE22	1.65	0.60
2:2:5:PHE:CE1	2:2:13:GLN:HG3	2.35	0.60
2:2:493:LYS:NZ	2:2:978:THR:CB	2.65	0.60
2:2:577:ILE:CG2	2:2:792:ALA:HB2	2.30	0.60
2:2:1127:VAL:HG22	2:2:1127:VAL:O	2.01	0.60
3:4:474:LEU:HD23	3:4:474:LEU:C	2.20	0.60
1:A:177:LYS:HG2	1:A:180:SER:HB2	1.77	0.60
1:J:126:PHE:CB	1:J:131:ALA:CB	2.78	0.60
2:2:93:VAL:HG22	2:2:93:VAL:O	2.01	0.60
3:4:368:GLU:OE1	3:4:372:ALA:CB	2.30	0.60
3:4:538:ARG:NH1	3:4:576:LEU:HD23	2.17	0.60
3:4:621:TRP:CB	3:4:703:GLY:O	2.49	0.60
1:D:159:SER:HB2	1:D:168:ARG:NH1	2.16	0.60
1:E:337:PRO:HG2	1:E:339:LEU:HD22	1.84	0.60
2:2:84:ILE:HG21	2:2:93:VAL:HG22	1.79	0.60
1:A:1152:ALA:O	1:A:1153:SER:O	2.20	0.60
1:D:156:ALA:HB2	1:D:444:TRP:NE1	2.15	0.60
1:D:723:ASP:CB	1:C:616:SER:HB3	2.32	0.60
1:F:320:ASP:OD1	1:F:347:ARG:NE	2.34	0.60
1:F:601:ILE:HG23	1:F:622:PRO:HB3	1.84	0.60
1:G:241:ASN:OD1	1:G:241:ASN:N	2.34	0.60
2:2:247:MET:HB2	2:2:839:LEU:HD11	1.81	0.60
3:4:297:GLU:HB3	3:4:306:ILE:CD1	2.32	0.60
1:B:373:ARG:HH21	1:B:373:ARG:CG	2.15	0.60
1:D:156:ALA:HB2	1:D:444:TRP:CE2	2.36	0.60
1:E:656:PHE:CE2	1:E:675:MET:HB3	2.32	0.60
1:I:705:ILE:HG21	1:I:733:MET:O	2.02	0.60
1:J:864:PHE:HE1	1:J:931:ILE:HD12	1.66	0.60
1:J:1170:PRO:HD2	1:J:1189:THR:HG23	1.83	0.60
3:4:624:ASP:OD2	3:4:698:ARG:CB	2.50	0.60
3:4:655:ARG:HA	3:4:672:PRO:CB	2.32	0.60
1:A:168:ARG:NH1	1:A:168:ARG:HB2	2.17	0.60
1:A:581:SER:N	1:A:582:PRO:HD2	2.17	0.60
1:B:1015:GLY:CA	1:B:1033:ASP:O	2.50	0.60
1:F:920:LEU:HD23	1:F:920:LEU:O	2.02	0.60
1:G:329:MET:SD	1:G:370:ARG:NH1	2.75	0.60
2:2:129:ALA:HB1	2:2:132:ALA:H	1.65	0.60
2:2:145:GLN:HE22	2:2:383:LEU:HA	1.66	0.60
3:4:630:GLU:O	3:4:694:VAL:HG23	2.01	0.60
1:E:538:ASN:OD1	1:E:539:GLY:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:166:ASP:CG	1:I:525:TYR:HE2	2.02	0.60
1:I:526:ALA:HB1	1:I:529:TRP:HD1	1.66	0.60
1:J:1079:GLY:C	1:J:1080:HIS:ND1	2.54	0.60
1:D:983:TYR:CE1	1:D:1003:PRO:HG2	2.37	0.59
1:I:697:MET:HG2	1:I:744:PRO:CA	2.32	0.59
2:2:386:GLN:NE2	2:2:674:SER:CB	2.65	0.59
2:2:675:SER:OG	2:2:676:GLY:N	2.33	0.59
3:4:540:SER:HB3	3:4:578:PRO:HB2	1.84	0.59
1:A:174:VAL:CG2	1:A:900:GLU:HA	2.32	0.59
1:C:879:PHE:C	1:C:881:VAL:H	2.05	0.59
1:F:461:ASN:ND2	1:F:918:ALA:HB1	2.17	0.59
1:J:931:ILE:HG13	1:J:931:ILE:O	2.00	0.59
2:2:164:GLN:HE21	2:2:246:HIS:CD2	2.20	0.59
3:4:357:THR:HG23	3:4:363:ARG:O	2.02	0.59
1:B:595:GLN:C	1:C:687:LEU:HD11	2.23	0.59
1:E:249:TRP:HZ3	1:E:342:LEU:CD2	2.14	0.59
1:G:428:LEU:HD13	1:G:428:LEU:N	2.17	0.59
1:I:978:ALA:HB3	1:I:1081:TYR:CE2	2.37	0.59
3:4:624:ASP:OD2	3:4:698:ARG:HB3	2.02	0.59
1:C:356:ASN:ND2	1:C:1151:ALA:HB1	2.17	0.59
1:C:570:THR:O	1:C:700:TRP:HZ2	1.85	0.59
1:C:1148:SER:OG	1:C:1163:ALA:HA	2.03	0.59
1:H:376:LEU:HD12	1:H:438:PRO:HB3	1.84	0.59
1:J:126:PHE:CG	1:J:131:ALA:HB1	2.38	0.59
1:J:199:GLY:HA3	1:J:252:LEU:H	1.68	0.59
1:A:1017:PHE:CZ	1:B:1211:ARG:HG2	2.38	0.59
3:4:76:CYS:SG	3:4:77:LEU:N	2.73	0.59
3:4:538:ARG:NH1	3:4:576:LEU:HD22	2.16	0.59
1:A:385:VAL:HG13	1:A:1196:ARG:HB2	1.85	0.59
1:E:446:ALA:H	1:E:854:ASN:HB3	1.68	0.59
1:F:220:ILE:CG2	1:F:228:MET:CE	2.80	0.59
1:F:1182:ASN:HB3	1:F:1184:LEU:HB2	1.84	0.59
1:H:920:LEU:HD23	1:H:920:LEU:O	2.02	0.59
2:2:19:LEU:C	2:2:19:LEU:HD12	2.23	0.59
3:4:621:TRP:HB2	3:4:703:GLY:O	2.02	0.59
3:4:655:ARG:HA	3:4:672:PRO:HD2	1.83	0.59
1:F:463:SER:OG	1:F:801:ARG:CD	2.51	0.59
1:G:427:LEU:HD23	1:G:837:TYR:HB3	1.84	0.59
1:H:257:ARG:NH1	1:H:309:LEU:O	2.36	0.59
2:2:488:ASP:CB	2:2:977:ILE:HG21	2.32	0.59
1:D:462:ILE:HG23	1:D:468:ALA:HB3	1.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1188:ILE:O	1:D:1188:ILE:HG22	2.02	0.59
1:E:663:GLN:HE21	1:E:854:ASN:HD21	1.49	0.59
1:G:718:THR:HG22	1:G:726:ARG:CZ	2.33	0.59
1:I:679:TRP:CZ2	1:I:697:MET:HE3	2.38	0.59
2:2:17:LEU:HD21	2:2:166:ARG:HD2	1.84	0.59
2:2:497:ILE:HD12	2:2:497:ILE:C	2.19	0.59
2:2:838:VAL:O	2:2:838:VAL:HG12	2.03	0.59
2:2:1089:VAL:HG13	2:2:1089:VAL:O	2.03	0.59
2:2:1130:LEU:HD13	2:2:1130:LEU:N	2.16	0.59
3:4:57:THR:CG2	3:4:60:GLU:H	2.02	0.59
1:A:502:GLU:CD	1:A:509:SER:OG	2.41	0.59
1:B:257:ARG:HH11	1:B:257:ARG:CG	2.15	0.59
1:E:536:ALA:O	1:E:768:GLN:HG3	2.03	0.59
1:F:606:MET:SD	1:F:614:GLN:NE2	2.76	0.59
1:J:1050:ASP:OD1	1:J:1050:ASP:N	2.33	0.59
2:2:309:ARG:HG3	2:2:732:GLN:HG2	1.84	0.59
2:2:488:ASP:HB2	2:2:977:ILE:HG21	1.85	0.59
2:2:1078:ILE:HD11	2:2:1203:TYR:HE2	1.64	0.59
3:4:362:ARG:O	3:4:362:ARG:HG2	2.01	0.59
1:B:392:ASP:N	1:B:392:ASP:OD1	2.35	0.59
1:D:868:ARG:CZ	1:D:879:PHE:CE2	2.86	0.59
1:G:1023:ARG:HB3	1:G:1024:PRO:HD2	1.85	0.59
1:H:195:ILE:CD1	1:H:256:GLY:HA2	2.22	0.59
1:I:928:ASP:OD1	1:I:930:ARG:NH2	2.36	0.59
1:I:1149:THR:HG21	1:I:1162:ALA:H	1.68	0.59
1:J:72:VAL:HG23	1:J:72:VAL:O	2.02	0.59
2:2:334:ASP:OD1	2:2:357:ARG:NH2	2.36	0.59
1:B:1014:VAL:HG23	1:B:1031:LEU:HG	1.85	0.58
1:F:331:ARG:NH1	1:F:1196:ARG:NE	2.51	0.58
1:I:1194:LEU:HD11	1:I:1196:ARG:HD2	1.85	0.58
1:D:555:GLN:OE1	1:D:559:HIS:CG	2.56	0.58
1:C:432:ILE:HD11	1:C:433:PRO:HD2	1.72	0.58
1:F:330:ILE:HD12	1:F:330:ILE:O	2.03	0.58
1:I:393:ALA:HB2	1:I:1192:ASN:HD21	1.67	0.58
1:J:197:ASP:CB	1:J:253:GLY:HA3	2.32	0.58
2:2:127:LEU:HD23	2:2:127:LEU:N	2.18	0.58
2:2:176:ASP:HB2	2:2:842:ARG:HH12	1.64	0.58
2:2:247:MET:O	2:2:839:LEU:HD13	2.01	0.58
3:4:66:GLN:NE2	3:4:201:LEU:HD23	2.17	0.58
3:4:349:ALA:O	3:4:353:SER:CB	2.51	0.58
3:4:434:ALA:HB3	3:4:688:THR:HB	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:166:ASP:OD2	1:A:280:ARG:CD	2.50	0.58
1:D:329:MET:O	1:D:369:GLY:HA3	2.02	0.58
1:C:520:PRO:CB	1:C:523:ASN:HA	2.32	0.58
1:H:1020:ILE:CG1	1:H:1058:VAL:HG22	2.33	0.58
1:J:115:SER:O	1:J:115:SER:OG	2.18	0.58
2:2:746:LEU:CB	2:2:747:PRO:CD	2.79	0.58
2:2:1187:VAL:CG2	2:2:1232:ILE:HD13	2.32	0.58
1:D:462:ILE:HG22	1:D:468:ALA:HB3	1.85	0.58
1:C:257:ARG:NH2	1:C:309:LEU:O	2.36	0.58
1:C:697:MET:CE	1:C:744:PRO:N	2.66	0.58
1:E:1016:ARG:CD	1:F:1211:ARG:HH12	2.15	0.58
1:H:1106:LYS:HB2	1:H:1113:PRO:HG3	1.85	0.58
2:2:576:LEU:HD11	2:2:736:VAL:HG21	1.85	0.58
1:D:320:ASP:O	1:D:326:SER:HA	2.03	0.58
1:D:787:ARG:HA	1:D:934:LEU:CD1	2.34	0.58
1:D:787:ARG:HA	1:D:934:LEU:HD12	1.86	0.58
1:D:1016:ARG:CZ	1:D:1017:PHE:CE2	2.86	0.58
1:E:534:SER:O	1:E:535:TRP:C	2.41	0.58
1:E:625:PHE:O	1:E:647:ARG:NH2	2.37	0.58
1:E:657:GLY:HA2	1:E:674:ARG:HA	1.85	0.58
1:E:973:ASN:HB2	1:E:1144:ASP:HB2	1.85	0.58
1:F:404:MET:SD	1:F:956:HIS:HE1	2.23	0.58
1:G:154:ASN:HD22	1:G:154:ASN:C	2.06	0.58
1:H:687:LEU:H	1:H:687:LEU:CD2	2.13	0.58
1:I:991:GLY:O	1:I:1132:ARG:NH2	2.35	0.58
2:2:247:MET:O	2:2:839:LEU:HD12	2.02	0.58
2:2:341:LEU:HD23	2:2:341:LEU:C	2.22	0.58
1:B:793:ARG:HG3	1:B:795:ASP:O	2.02	0.58
1:D:201:CYS:SG	1:D:399:ARG:NH1	2.76	0.58
1:C:595:GLN:OE1	1:E:693:TYR:CD2	2.57	0.58
1:J:411:GLN:HB2	1:J:445:PHE:HB2	1.85	0.58
1:J:919:LEU:HD23	1:J:920:LEU:HB3	1.86	0.58
1:J:1052:LEU:O	1:J:1056:VAL:HG23	2.03	0.58
1:D:667:ASN:HD22	1:D:670:ILE:HD11	1.69	0.58
1:C:1148:SER:OG	1:C:1163:ALA:CA	2.52	0.58
1:F:325:THR:O	1:F:328:ARG:HB3	2.03	0.58
1:G:167:ILE:HD12	1:G:168:ARG:HG2	1.86	0.58
1:G:654:SER:OG	1:G:655:GLU:N	2.36	0.58
1:H:20:ASN:N	1:H:20:ASN:OD1	2.35	0.58
1:I:229:TYR:O	1:I:230:GLN:HB2	2.03	0.58
1:I:427:LEU:HD13	1:I:837:TYR:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:577:ILE:HG21	2:2:792:ALA:HB2	1.86	0.58
2:2:799:PRO:CD	2:2:1090:ALA:HB3	2.34	0.58
3:4:473:ILE:HD11	3:4:564:LEU:HD11	1.86	0.58
1:C:173:ASP:N	1:C:173:ASP:OD1	2.31	0.58
1:C:1205:ASP:OD1	1:C:1205:ASP:N	2.37	0.58
1:E:538:ASN:O	1:E:540:LEU:N	2.37	0.58
1:E:209:ASN:ND2	1:E:267:THR:OG1	2.34	0.58
1:F:112:VAL:HG13	1:F:112:VAL:O	2.03	0.58
1:F:112:VAL:O	1:F:112:VAL:HG22	2.03	0.58
1:F:1044:ASP:N	1:F:1044:ASP:OD1	2.35	0.58
1:G:170:LEU:HD23	1:G:170:LEU:N	2.19	0.58
2:2:284:ALA:HB3	2:2:337:THR:HG21	1.85	0.58
3:4:61:LEU:HD23	3:4:61:LEU:C	2.23	0.58
1:B:459:LEU:HG	1:B:785:VAL:HG21	1.86	0.58
1:F:228:MET:CE	1:F:230:GLN:CG	2.82	0.58
1:G:157:ILE:CD1	1:G:494:THR:CG2	2.82	0.58
1:G:526:ALA:C	1:G:528:PHE:N	2.51	0.58
1:H:1020:ILE:HG12	1:H:1058:VAL:HG21	1.86	0.58
1:I:462:ILE:HG23	1:I:462:ILE:O	2.03	0.58
1:J:118:VAL:O	1:J:118:VAL:HG12	2.04	0.58
3:4:292:ILE:HD13	3:4:322:LEU:HD21	1.86	0.58
1:A:160:PHE:CD1	3:4:477:THR:HG23	2.39	0.57
1:D:721:VAL:HG23	1:D:725:THR:HG23	1.86	0.57
1:E:240:VAL:HG13	1:E:1146:LEU:HD12	1.83	0.57
2:2:474:PHE:CB	2:2:484:PRO:HG3	2.25	0.57
2:2:994:ARG:NH1	2:2:1160:GLY:O	2.37	0.57
1:A:511:ILE:CD1	1:A:732:VAL:HG22	2.32	0.57
1:D:654:SER:OG	1:D:655:GLU:N	2.37	0.57
1:F:578:ASP:OD2	1:F:584:LYS:NZ	2.35	0.57
1:I:916:ASP:OD1	1:I:916:ASP:N	2.37	0.57
1:J:1092:ILE:O	1:J:1132:ARG:NH1	2.38	0.57
2:2:1207:HIS:HB3	2:2:1250:THR:HG22	1.85	0.57
1:E:534:SER:O	1:E:537:TYR:N	2.38	0.57
1:F:557:ILE:O	1:F:557:ILE:HG12	2.02	0.57
1:H:552:ASP:OD1	1:H:552:ASP:N	2.36	0.57
1:H:1046:VAL:O	1:H:1046:VAL:HG12	2.04	0.57
2:2:77:ASN:ND2	2:2:83:ARG:NH2	2.45	0.57
2:2:683:THR:OG1	2:2:684:SER:N	2.37	0.57
1:A:260:GLU:CG	1:A:307:SER:HB2	2.33	0.57
1:A:437:ARG:HH22	1:A:1207:ILE:HA	1.70	0.57
1:B:1015:GLY:HA3	1:B:1033:ASP:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:717:MET:O	1:D:721:VAL:HG12	2.04	0.57
1:E:257:ARG:NH2	1:E:309:LEU:O	2.37	0.57
1:E:663:GLN:NE2	1:E:850:MET:HE2	2.14	0.57
1:H:464:SER:OG	1:H:464:SER:O	2.22	0.57
1:H:488:LEU:HA	1:H:825:GLY:HA2	1.86	0.57
1:I:464:SER:HB3	1:I:468:ALA:HB2	1.85	0.57
1:J:864:PHE:HE1	1:J:931:ILE:CD1	2.16	0.57
1:J:983:TYR:CE1	1:J:1003:PRO:CG	2.85	0.57
2:2:507:ALA:HB1	2:2:511:LEU:HD23	1.84	0.57
3:4:538:ARG:HD3	3:4:576:LEU:CD2	2.18	0.57
3:4:658:VAL:O	3:4:658:VAL:HG12	2.04	0.57
1:B:257:ARG:HD2	1:B:257:ARG:N	2.19	0.57
3:4:631:VAL:HG21	3:4:666:MET:HE1	1.85	0.57
3:4:654:SER:C	3:4:672:PRO:HB2	2.20	0.57
1:D:726:ARG:NH2	1:C:616:SER:O	2.31	0.57
1:I:697:MET:HG2	1:I:744:PRO:CG	2.34	0.57
1:J:919:LEU:HD23	1:J:919:LEU:C	2.24	0.57
2:2:1023:VAL:CG1	2:2:1130:LEU:HD13	2.35	0.57
2:2:1089:VAL:O	2:2:1089:VAL:HG22	2.03	0.57
3:4:617:ARG:HH22	3:4:626:ASP:CB	2.13	0.57
1:C:698:SER:OG	1:C:744:PRO:HB2	2.05	0.57
1:G:167:ILE:HA	1:G:525:TYR:HD2	1.68	0.57
1:G:893:VAL:HG23	1:H:687:LEU:O	2.05	0.57
1:I:167:ILE:HG22	1:I:525:TYR:CD2	2.40	0.57
2:2:115:PHE:N	2:2:115:PHE:CD1	2.73	0.57
3:4:283:ASP:OD1	3:4:598:LEU:HD22	2.04	0.57
1:A:167:ILE:O	1:A:167:ILE:HG22	2.05	0.57
1:A:413:PRO:O	1:A:417:VAL:HG12	2.05	0.57
1:B:875:GLN:NE2	1:B:930:ARG:HG2	2.20	0.57
1:D:454:GLN:HE21	1:D:857:ALA:HA	1.69	0.57
1:C:257:ARG:HD2	1:C:912:ALA:HB1	1.86	0.57
1:C:836:HIS:NE2	2:2:748:HIS:NE2	2.53	0.57
1:F:555:GLN:NE2	1:G:835:HIS:CG	2.63	0.57
1:G:157:ILE:HD12	1:G:494:THR:CG2	2.34	0.57
1:I:198:THR:O	1:I:198:THR:HG22	2.04	0.57
1:I:462:ILE:CD1	1:I:468:ALA:HB1	2.30	0.57
1:J:252:LEU:CD1	1:J:336:ARG:HG2	2.35	0.57
2:2:247:MET:HB3	2:2:839:LEU:CD1	2.34	0.57
1:E:538:ASN:ND2	1:E:771:PHE:CE2	2.72	0.57
1:F:790:PRO:CB	1:F:793:ARG:NH2	2.67	0.57
1:G:414:THR:HG23	1:G:415:GLN:HE21	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:930:ARG:HD2	1:H:689:VAL:CG1	2.35	0.57
1:H:690:ALA:N	1:H:691:PRO:CD	2.67	0.57
1:I:720:THR:OG1	1:I:721:VAL:N	2.37	0.57
2:2:488:ASP:CB	2:2:977:ILE:CG2	2.83	0.57
2:2:509:MET:HB3	2:2:985:LEU:HD23	1.86	0.57
3:4:350:LEU:HD11	3:4:367:LEU:HD12	1.87	0.57
1:A:513:GLU:OE2	1:A:513:GLU:HA	2.05	0.57
1:C:412:ASP:OD1	1:C:412:ASP:N	2.37	0.57
1:C:690:ALA:O	1:C:692:THR:HG23	2.05	0.57
1:E:282:TYR:CD1	1:F:830:ASN:OD1	2.57	0.57
1:H:876:ASP:HA	1:H:883:ARG:HH12	1.70	0.57
1:I:466:THR:HG21	1:I:809:ALA:HA	1.85	0.57
2:2:77:ASN:OD1	2:2:83:ARG:HD2	2.05	0.57
2:2:78:GLN:HG3	2:2:79:ASP:H	1.69	0.57
2:2:890:GLN:HE22	2:2:913:TRP:HB3	1.69	0.57
1:D:1044:ASP:N	1:D:1044:ASP:OD1	2.36	0.56
1:E:656:PHE:HD2	1:E:657:GLY:H	1.53	0.56
1:G:684:LEU:HD22	1:G:753:THR:HG21	1.85	0.56
1:I:460:VAL:HG13	1:I:787:ARG:CZ	2.35	0.56
1:J:126:PHE:CD2	1:J:126:PHE:N	2.73	0.56
2:2:86:THR:HG21	2:2:89:ASN:O	2.04	0.56
1:B:460:VAL:HG11	1:B:923:LEU:CD1	2.34	0.56
1:B:875:GLN:O	1:B:883:ARG:NH2	2.32	0.56
1:D:126:PHE:HD2	1:D:132:LEU:HD12	1.69	0.56
1:D:159:SER:OG	1:D:1205:ASP:HB2	2.05	0.56
1:D:875:GLN:OE1	1:D:930:ARG:HD3	2.02	0.56
1:C:525:TYR:HE2	1:C:820:VAL:CG1	2.16	0.56
1:F:556:SER:O	1:F:556:SER:OG	2.20	0.56
1:I:197:ASP:OD2	1:I:399:ARG:CZ	2.52	0.56
1:I:432:ILE:HD12	1:I:432:ILE:O	2.06	0.56
1:J:355:LYS:NZ	1:J:1149:THR:O	2.36	0.56
2:2:116:LEU:HB2	2:2:139:TYR:CD2	2.40	0.56
3:4:282:PHE:HE1	3:4:642:ALA:HB2	1.69	0.56
3:4:317:VAL:HG22	3:4:353:SER:HB3	1.87	0.56
1:D:542:THR:HG23	1:D:808:ALA:HB3	1.87	0.56
1:C:708:PHE:O	1:C:711:VAL:N	2.39	0.56
1:C:789:ASP:HB3	1:C:931:ILE:HG22	1.87	0.56
1:C:1145:SER:O	1:C:1145:SER:OG	2.21	0.56
1:E:183:LEU:HD11	1:E:849:ALA:HB2	1.87	0.56
1:E:697:MET:CE	1:E:744:PRO:HA	2.36	0.56
1:F:554:SER:HB2	1:G:835:HIS:HA	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:560:LEU:HD12	1:F:564:TRP:HD1	1.71	0.56
1:F:874:CYS:HB3	1:F:893:VAL:HG21	1.86	0.56
1:G:1106:LYS:HB2	1:G:1113:PRO:HG3	1.87	0.56
1:H:722:ASN:O	1:H:726:ARG:NH1	2.38	0.56
1:I:658:TYR:OH	1:I:667:ASN:ND2	2.38	0.56
1:J:121:VAL:HG22	1:J:136:LEU:CD2	2.33	0.56
1:J:1023:ARG:NH1	1:J:1028:GLU:O	2.38	0.56
2:2:80:ARG:HD2	2:2:676:GLY:HA3	1.86	0.56
2:2:287:LEU:CD1	2:2:784:THR:HG21	2.35	0.56
2:2:538:ASN:HD22	2:2:540:ILE:H	1.52	0.56
2:2:985:LEU:HD13	2:2:986:PHE:CE2	2.25	0.56
3:4:607:LEU:CD2	3:4:655:ARG:HH21	2.16	0.56
1:A:166:ASP:OD2	1:A:280:ARG:HD2	2.05	0.56
1:G:167:ILE:CD1	1:G:168:ARG:HG2	2.36	0.56
2:2:264:ARG:HB2	2:2:346:LEU:HD11	1.88	0.56
3:4:283:ASP:OD1	3:4:598:LEU:HD21	2.04	0.56
3:4:473:ILE:CG1	3:4:564:LEU:HG	2.36	0.56
1:B:743:THR:HA	1:B:746:TYR:HB3	1.87	0.56
1:B:1008:GLY:HA3	1:B:1011:VAL:HG11	1.85	0.56
1:C:697:MET:HE2	1:C:744:PRO:HB3	1.86	0.56
1:C:990:ASN:HB2	1:C:1131:ARG:HG3	1.86	0.56
1:E:393:ALA:HB1	1:E:1182:ASN:HD22	1.71	0.56
1:E:490:PRO:HG3	1:E:525:TYR:CE2	2.39	0.56
1:F:1106:LYS:HB2	1:F:1113:PRO:HG3	1.88	0.56
1:G:314:SER:HB3	1:G:1198:ASN:HD21	1.70	0.56
1:I:692:THR:C	1:I:693:TYR:CD1	2.79	0.56
2:2:97:ASN:OD1	2:2:230:SER:CB	2.41	0.56
1:A:174:VAL:CG2	1:A:900:GLU:CB	2.82	0.56
1:A:280:ARG:HB3	1:A:280:ARG:CZ	2.36	0.56
1:B:457:MET:HE2	1:B:920:LEU:CD1	2.30	0.56
1:D:401:THR:HG21	1:D:960:ALA:HB2	1.86	0.56
1:D:1019:THR:CG2	1:E:353:GLN:N	2.69	0.56
1:C:693:TYR:N	1:C:693:TYR:CD2	2.73	0.56
1:G:427:LEU:CD2	1:G:837:TYR:HB3	2.35	0.56
1:G:456:VAL:HG21	1:G:950:VAL:HG21	1.88	0.56
1:I:392:ASP:OD1	1:I:395:THR:HG22	2.06	0.56
1:J:252:LEU:HD12	1:J:336:ARG:CG	2.36	0.56
2:2:502:GLN:O	2:2:505:ARG:CZ	2.52	0.56
3:4:311:ARG:NH1	3:4:383:GLU:OE1	2.39	0.56
1:B:670:ILE:HD13	1:B:768:GLN:HB2	1.88	0.56
1:E:693:TYR:N	1:E:693:TYR:CD1	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1062:TYR:OH	1:F:120:ASN:ND2	2.39	0.56
1:F:614:GLN:CB	1:G:431:THR:HG21	2.20	0.56
1:G:450:ASP:OD2	1:G:861:ARG:NH1	2.39	0.56
1:H:868:ARG:HG3	1:H:931:ILE:O	2.05	0.56
2:2:509:MET:HE3	2:2:543:ALA:HB1	1.87	0.56
3:4:621:TRP:HA	3:4:703:GLY:HA3	1.88	0.56
3:4:629:LEU:HD11	3:4:695:PRO:HD2	1.88	0.56
3:4:663:ASP:OD1	3:4:664:GLN:N	2.39	0.56
1:D:1020:ILE:HD13	1:D:1031:LEU:CD1	2.34	0.56
1:C:432:ILE:CD1	1:C:437:ARG:HH11	1.90	0.56
1:C:595:GLN:OE1	1:E:693:TYR:HD2	1.89	0.56
1:E:331:ARG:NH2	1:E:389:GLU:OE1	2.38	0.56
1:F:228:MET:HE2	1:F:230:GLN:HG2	1.86	0.56
1:G:307:SER:O	1:G:310:LYS:NZ	2.39	0.56
1:I:209:ASN:HD21	1:I:242:ARG:HG3	1.70	0.56
1:I:697:MET:HB3	1:I:744:PRO:CB	2.35	0.56
2:2:116:LEU:HD12	2:2:117:HIS:H	1.71	0.56
2:2:309:ARG:O	2:2:732:GLN:NE2	2.39	0.56
1:B:325:THR:HG21	1:B:347:ARG:HA	1.88	0.56
1:B:556:SER:OG	1:B:595:GLN:NE2	2.39	0.56
1:B:971:GLU:HB3	1:B:974:LEU:HD13	1.87	0.56
1:B:1214:THR:HG23	1:B:1214:THR:O	2.05	0.56
1:C:1146:LEU:HD22	1:C:1147:PHE:O	2.06	0.56
1:E:183:LEU:HD11	1:E:849:ALA:CB	2.35	0.56
1:E:536:ALA:O	1:E:768:GLN:CG	2.54	0.56
1:H:869:SER:HB2	1:H:881:VAL:HG11	1.88	0.56
1:H:1044:ASP:OD1	1:H:1044:ASP:N	2.38	0.56
1:J:552:ASP:OD1	1:J:552:ASP:N	2.38	0.56
1:J:872:ALA:O	1:J:883:ARG:NH2	2.38	0.56
2:2:342:ALA:HA	2:2:347:VAL:HG23	1.88	0.56
3:4:402:ASN:ND2	3:4:512:THR:O	2.38	0.56
3:4:626:ASP:N	3:4:627:PRO:HD3	2.20	0.56
1:A:193:LEU:HD22	1:A:855:GLN:HE21	1.69	0.56
1:B:156:ALA:H	1:B:848:ASN:HD22	1.54	0.56
1:B:282:TYR:OH	1:B:289:ASN:ND2	2.39	0.56
1:D:463:SER:HB3	1:D:926:TYR:CZ	2.41	0.56
1:D:593:LEU:O	1:D:608:GLN:NE2	2.39	0.56
1:D:595:GLN:HB3	1:E:687:LEU:HD23	1.88	0.56
1:C:789:ASP:HB2	1:C:933:ASP:HB3	1.89	0.56
1:E:340:LEU:HD12	1:E:347:ARG:NH2	2.17	0.56
1:F:791:ALA:CB	1:F:792:GLN:NE2	2.67	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:919:LEU:CD2	1:J:920:LEU:CB	2.84	0.56
2:2:113:TYR:HA	2:2:219:TRP:HA	1.88	0.56
2:2:488:ASP:HB3	2:2:977:ILE:HG22	1.88	0.56
3:4:674:LEU:HD23	3:4:675:PRO:HD2	1.88	0.56
1:A:476:LEU:HD23	1:A:533:ALA:CA	2.32	0.55
1:D:252:LEU:HD11	1:D:335:GLY:HA3	1.87	0.55
1:E:356:ASN:HD21	1:E:1151:ALA:HB1	1.70	0.55
1:E:983:TYR:OH	1:E:1002:PRO:HB2	2.06	0.55
1:G:167:ILE:HA	1:G:525:TYR:CD2	2.40	0.55
1:I:201:CYS:HB3	1:I:399:ARG:NH1	2.21	0.55
1:J:74:ASN:N	1:J:74:ASN:OD1	2.38	0.55
1:J:117:TYR:O	1:J:117:TYR:HD1	1.88	0.55
3:4:467:ASP:O	3:4:471:ALA:CB	2.54	0.55
1:B:73:ASN:C	1:B:73:ASN:HD22	2.10	0.55
1:D:236:PRO:O	1:D:241:ASN:ND2	2.39	0.55
1:C:684:LEU:HD23	1:C:753:THR:OG1	2.05	0.55
1:E:460:VAL:O	1:E:787:ARG:NH1	2.39	0.55
1:F:65:ASP:N	1:F:65:ASP:OD1	2.39	0.55
1:G:157:ILE:HD12	1:G:494:THR:HG21	1.88	0.55
1:G:284:ASP:OD1	1:G:284:ASP:N	2.38	0.55
1:H:1017:PHE:CD2	1:H:1017:PHE:N	2.73	0.55
2:2:1012:ASN:OD1	2:2:1272:ARG:NH1	2.39	0.55
2:2:1133:GLU:HG2	2:2:1185:ARG:HH22	1.69	0.55
1:B:463:SER:HB2	1:B:926:TYR:CZ	2.41	0.55
1:H:692:THR:HG23	1:H:693:TYR:N	2.20	0.55
1:I:236:PRO:HG2	1:I:241:ASN:ND2	2.22	0.55
2:2:388:THR:HG22	2:2:671:ASP:OD2	2.06	0.55
2:2:509:MET:HE1	2:2:543:ALA:HB2	1.82	0.55
3:4:689:TYR:CZ	3:4:692:HIS:CE1	2.90	0.55
1:D:969:MET:O	1:D:979:ARG:NH2	2.40	0.55
1:C:698:SER:OG	1:C:744:PRO:CB	2.54	0.55
1:F:333:PHE:CD2	1:F:333:PHE:N	2.74	0.55
1:F:740:LYS:NZ	1:F:742:MET:SD	2.79	0.55
1:G:255:GLU:HG3	1:G:256:GLY:N	2.21	0.55
1:I:693:TYR:CD1	1:I:693:TYR:N	2.75	0.55
1:J:789:ASP:OD1	1:J:789:ASP:N	2.39	0.55
3:4:397:PRO:HB2	3:4:584:LEU:HD23	1.88	0.55
1:A:149:ALA:HA	1:A:153:ILE:HG12	1.86	0.55
1:B:159:SER:OG	1:B:160:PHE:N	2.38	0.55
1:B:682:GLN:OE1	1:B:748:GLN:NE2	2.40	0.55
1:H:787:ARG:HA	1:H:934:LEU:HD12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:1023:VAL:HG11	2:2:1130:LEU:HD13	1.89	0.55
1:B:868:ARG:HD2	1:B:879:PHE:CE2	2.42	0.55
1:E:245:CYS:HB3	1:E:263:LEU:HD23	1.87	0.55
1:E:340:LEU:HD11	1:E:347:ARG:NH2	2.19	0.55
1:E:876:ASP:HA	1:E:883:ARG:HH22	1.72	0.55
1:H:324:ILE:O	1:H:324:ILE:HG13	2.07	0.55
1:I:1006:ARG:NH1	1:I:1077:GLU:OE2	2.39	0.55
1:I:1145:SER:O	1:I:1145:SER:OG	2.19	0.55
3:4:405:CYS:HB3	3:4:519:ALA:HB3	1.89	0.55
1:B:39:PRO:O	1:B:42:ALA:N	2.38	0.55
1:B:875:GLN:HE22	1:B:930:ARG:CG	2.20	0.55
1:E:983:TYR:CD2	1:E:1003:PRO:CD	2.84	0.55
1:F:879:PHE:CD2	1:F:881:VAL:HG13	2.41	0.55
1:H:446:ALA:HB3	1:H:854:ASN:HD22	1.72	0.55
2:2:80:ARG:HE	2:2:128:ARG:HH21	1.45	0.55
2:2:297:GLY:HA2	2:2:322:LEU:HB2	1.87	0.55
2:2:971:SER:HB3	2:2:974:ILE:CG2	2.30	0.55
2:2:976:GLN:HE22	2:2:978:THR:H	1.55	0.55
1:A:1016:ARG:CD	1:B:1211:ARG:HH21	2.19	0.55
1:B:871:VAL:O	1:B:875:GLN:HG2	2.07	0.55
1:G:370:ARG:HA	1:G:387:CYS:HA	1.89	0.55
1:J:252:LEU:HD12	1:J:336:ARG:HG2	1.88	0.55
1:J:925:LEU:N	1:J:925:LEU:HD23	2.21	0.55
1:J:1122:PRO:O	1:J:1150:ASN:ND2	2.40	0.55
2:2:342:ALA:HA	2:2:347:VAL:CG2	2.37	0.55
2:2:986:PHE:O	2:2:987:TYR:CD2	2.51	0.55
1:B:793:ARG:CG	1:B:795:ASP:O	2.55	0.55
1:F:463:SER:OG	1:F:801:ARG:HD2	2.07	0.55
1:J:292:ALA:O	1:J:296:ASN:ND2	2.39	0.55
2:2:497:ILE:HD11	2:2:498:TYR:CZ	2.42	0.55
1:A:174:VAL:HG21	1:A:900:GLU:CA	2.36	0.55
1:A:519:GLN:HE21	1:A:519:GLN:CA	2.20	0.55
1:E:1025:ASN:OD1	1:E:1025:ASN:N	2.39	0.55
1:G:721:VAL:HG22	1:G:725:THR:CG2	2.37	0.55
1:J:923:LEU:HD21	1:J:931:ILE:CD1	2.37	0.55
1:B:928:ASP:OD2	1:B:930:ARG:NH2	2.39	0.54
1:D:670:ILE:HB	1:D:671:PRO:HD2	1.89	0.54
1:C:761:VAL:HG11	1:C:844:LEU:HD13	1.89	0.54
1:F:324:ILE:O	1:F:325:THR:CG2	2.54	0.54
1:F:1210:VAL:O	1:F:1210:VAL:HG13	2.05	0.54
1:G:161:LEU:HD13	1:G:161:LEU:C	2.28	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:243:ILE:HG13	1:G:1147:PHE:HB2	1.88	0.54
1:H:158:ARG:NH1	1:H:1203:THR:OG1	2.40	0.54
1:H:382:SER:OG	1:H:383:ALA:N	2.39	0.54
2:2:521:MET:H	2:2:666:ARG:HB2	1.72	0.54
2:2:986:PHE:C	2:2:987:TYR:HD2	2.08	0.54
1:A:422:GLU:OE1	1:A:660:SER:HA	2.07	0.54
1:B:213:ALA:C	1:B:215:LEU:HD22	2.27	0.54
1:B:463:SER:O	1:B:463:SER:OG	2.21	0.54
1:C:236:PRO:O	1:C:241:ASN:ND2	2.41	0.54
1:E:1149:THR:HG23	1:E:1150:ASN:N	2.22	0.54
1:J:787:ARG:NH2	1:J:926:TYR:O	2.40	0.54
2:2:509:MET:CE	2:2:543:ALA:HB1	2.37	0.54
2:2:746:LEU:HD11	2:2:759:MET:CE	2.38	0.54
3:4:619:ALA:O	3:4:704:GLY:HA3	2.07	0.54
1:B:373:ARG:CD	1:B:373:ARG:H	2.21	0.54
1:C:693:TYR:OH	1:C:740:LYS:HG2	2.07	0.54
1:C:851:PHE:HA	1:C:854:ASN:HD22	1.72	0.54
1:C:1148:SER:HG	1:C:1164:VAL:N	2.05	0.54
1:H:1053:GLN:HE21	1:H:1112:ILE:HD11	1.71	0.54
2:2:386:GLN:HE21	2:2:674:SER:CB	2.18	0.54
1:D:208:ASP:N	1:D:208:ASP:OD1	2.40	0.54
1:E:658:TYR:CD2	1:E:659:GLY:N	2.76	0.54
1:G:510:PRO:HB3	1:G:729:MET:HG2	1.89	0.54
1:G:1009:PRO:O	1:G:1010:ASN:ND2	2.40	0.54
1:G:1183:ASP:OD2	1:G:1187:ARG:NH1	2.41	0.54
1:I:697:MET:CG	1:I:744:PRO:CB	2.85	0.54
3:4:42:PRO:HG2	3:4:45:LEU:HB2	1.89	0.54
3:4:473:ILE:CG1	3:4:564:LEU:HD11	2.37	0.54
1:B:161:LEU:HG	1:B:168:ARG:HG2	1.90	0.54
1:F:282:TYR:OH	1:F:289:ASN:ND2	2.39	0.54
1:I:697:MET:HG2	1:I:744:PRO:CB	2.37	0.54
1:J:435:SER:OG	1:J:437:ARG:NH1	2.40	0.54
2:2:493:LYS:NZ	2:2:978:THR:HB	2.23	0.54
2:2:719:SER:HB2	2:2:722:LEU:HB3	1.90	0.54
1:A:472:LEU:HD12	1:A:472:LEU:N	2.23	0.54
1:C:879:PHE:C	1:C:881:VAL:N	2.61	0.54
1:C:906:ASN:ND2	1:C:921:ASP:OD1	2.41	0.54
2:2:17:LEU:HD21	2:2:166:ARG:CD	2.34	0.54
2:2:589:ASN:HD22	2:2:786:GLU:H	1.56	0.54
1:A:616:SER:HB3	1:B:723:ASP:HB2	1.88	0.54
1:A:1183:ASP:OD1	1:A:1183:ASP:N	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:875:GLN:O	1:C:883:ARG:NH2	2.40	0.54
1:J:464:SER:OG	1:J:804:HIS:NE2	2.39	0.54
2:2:77:ASN:OD1	2:2:83:ARG:CB	2.49	0.54
2:2:508:PHE:CD1	2:2:988:ASP:HB3	2.42	0.54
1:D:647:ARG:HA	1:D:774:LEU:HD23	1.89	0.54
1:D:1019:THR:HG21	1:E:353:GLN:N	2.23	0.54
1:C:1006:ARG:HH21	1:C:1013:VAL:HG11	1.71	0.54
1:E:209:ASN:HD22	1:E:1087:TYR:HE2	1.55	0.54
1:G:721:VAL:HG22	1:G:725:THR:HG23	1.90	0.54
1:H:861:ARG:NH1	1:H:862:GLU:OE2	2.41	0.54
1:I:462:ILE:O	1:I:463:SER:C	2.43	0.54
2:2:77:ASN:HD22	2:2:77:ASN:C	2.08	0.54
1:A:242:ARG:NH2	1:A:1146:LEU:HD13	2.23	0.54
1:B:459:LEU:HD11	1:B:801:ARG:CZ	2.38	0.54
1:B:571:LEU:HD11	1:B:705:ILE:HD11	1.90	0.54
1:G:761:VAL:HG21	1:G:844:LEU:HD13	1.88	0.54
1:H:455:GLN:NE2	1:H:455:GLN:HA	2.23	0.54
1:H:1183:ASP:OD1	1:H:1183:ASP:N	2.41	0.54
1:I:692:THR:C	1:I:693:TYR:HD1	2.12	0.54
1:I:697:MET:HG2	1:I:744:PRO:HA	1.89	0.54
1:J:120:ASN:OD1	1:J:136:LEU:CD2	2.56	0.54
2:2:254:LEU:HD23	2:2:254:LEU:C	2.27	0.54
2:2:487:ASP:CB	2:2:491:VAL:HB	2.29	0.54
2:2:625:PHE:CE2	2:2:626:MET:HB2	2.41	0.54
1:B:155:ASN:OD1	1:B:848:ASN:ND2	2.36	0.54
1:D:320:ASP:OD2	1:D:325:THR:OG1	2.19	0.54
1:C:294:ARG:HH21	1:C:890:GLN:HB3	1.73	0.54
1:C:433:PRO:CD	1:C:437:ARG:HH11	2.20	0.54
1:E:524:ASP:O	1:E:525:TYR:CD2	2.61	0.54
1:G:241:ASN:O	1:G:1147:PHE:HB3	2.08	0.54
1:G:1122:PRO:HG3	1:G:1149:THR:OG1	2.08	0.54
1:G:1183:ASP:N	1:G:1183:ASP:OD1	2.41	0.54
1:J:189:ASN:OD1	1:J:916:ASP:HB2	2.07	0.54
2:2:5:PHE:CE2	2:2:13:GLN:NE2	2.73	0.54
2:2:298:GLY:H	2:2:322:LEU:HD12	1.73	0.54
2:2:462:VAL:CG2	2:2:498:TYR:CD1	2.91	0.54
2:2:497:ILE:HD11	2:2:498:TYR:CG	2.43	0.54
2:2:1054:ARG:O	2:2:1055:ARG:HD2	2.08	0.54
1:A:480:LEU:HD12	1:A:480:LEU:O	2.09	0.53
1:A:800:ILE:HG13	1:A:945:VAL:HG21	1.90	0.53
1:B:1205:ASP:N	1:B:1205:ASP:OD1	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:717:MET:O	1:D:721:VAL:CG1	2.55	0.53
1:C:1090:PRO:HD2	1:C:1123:GLN:HE21	1.73	0.53
1:H:451:LEU:HG	1:H:666:ALA:HB2	1.90	0.53
1:I:1149:THR:CG2	1:I:1162:ALA:H	2.20	0.53
2:2:386:GLN:CG	2:2:674:SER:OG	2.57	0.53
1:A:557:ILE:HD12	1:A:593:LEU:HD22	1.90	0.53
1:E:891:PHE:CE1	1:F:1214:THR:CB	2.90	0.53
1:G:761:VAL:HG11	1:G:844:LEU:HD22	1.90	0.53
1:G:1150:ASN:OD1	1:G:1156:THR:HB	2.07	0.53
2:2:75:ALA:O	2:2:83:ARG:O	2.27	0.53
2:2:78:GLN:HB3	2:2:81:VAL:HG23	1.90	0.53
2:2:458:ARG:NH1	2:2:509:MET:HG3	2.23	0.53
3:4:356:VAL:CG2	3:4:365:VAL:O	2.56	0.53
1:C:686:ARG:HD3	1:C:687:LEU:CD1	2.35	0.53
1:F:557:ILE:O	1:F:557:ILE:HG23	2.08	0.53
1:I:167:ILE:CG1	1:I:168:ARG:N	2.69	0.53
1:I:679:TRP:CE2	1:I:697:MET:HE3	2.43	0.53
2:2:25:LEU:H	2:2:25:LEU:CD2	2.22	0.53
2:2:932:HIS:HD2	2:2:933:PRO:HD2	1.73	0.53
3:4:349:ALA:O	3:4:353:SER:OG	2.26	0.53
3:4:629:LEU:CD2	3:4:693:TRP:CE3	2.88	0.53
1:D:284:ASP:OD1	1:D:287:GLN:NE2	2.41	0.53
1:H:245:CYS:HB3	1:H:263:LEU:HD12	1.89	0.53
1:H:676:VAL:O	1:H:768:GLN:NE2	2.42	0.53
1:H:1012:ARG:NH2	1:H:1040:ASP:O	2.41	0.53
1:H:1194:LEU:HD11	1:H:1196:ARG:HE	1.74	0.53
1:J:331:ARG:NH2	1:J:389:GLU:OE1	2.41	0.53
2:2:89:ASN:CB	2:2:90:PRO:CD	2.86	0.53
2:2:509:MET:HE1	2:2:543:ALA:HB3	1.90	0.53
2:2:799:PRO:HD2	2:2:1090:ALA:HB1	1.87	0.53
1:A:1147:PHE:HE1	1:A:1169:TRP:HE1	1.56	0.53
1:C:476:LEU:HD12	1:C:762:THR:HG21	1.91	0.53
1:F:713:ASN:HA	1:F:726:ARG:HD3	1.89	0.53
1:I:523:ASN:HA	1:I:525:TYR:CE1	2.44	0.53
1:J:197:ASP:OD1	1:J:197:ASP:N	2.41	0.53
2:2:616:PHE:O	2:2:651:GLN:NE2	2.42	0.53
1:B:38:SER:O	1:B:38:SER:OG	2.22	0.53
1:D:394:LEU:HD12	1:D:1188:ILE:HD11	1.91	0.53
1:D:410:HIS:HD2	1:D:442:CYS:H	1.57	0.53
1:D:705:ILE:HG21	1:D:737:ARG:HB2	1.90	0.53
1:C:252:LEU:HD23	1:C:252:LEU:C	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:578:ASP:HB3	1:C:581:SER:HB2	1.91	0.53
1:G:354:THR:HG21	1:G:1152:ALA:HA	1.90	0.53
1:G:1042:ALA:HA	1:G:1072:THR:HB	1.90	0.53
1:H:202:THR:OG1	1:H:249:TRP:NE1	2.41	0.53
1:I:284:ASP:HB2	1:I:287:GLN:HE21	1.73	0.53
1:A:166:ASP:CG	1:A:280:ARG:HD2	2.28	0.53
1:A:517:LEU:HD12	1:A:518:LEU:N	2.24	0.53
1:B:1182:ASN:HB3	1:B:1184:LEU:HB2	1.89	0.53
1:D:618:PRO:O	1:D:776:GLN:OE1	2.27	0.53
1:E:481:ARG:HG2	1:E:529:TRP:CD1	2.43	0.53
1:E:490:PRO:CB	1:E:525:TYR:OH	2.57	0.53
1:G:1108:ASN:OD1	1:G:1108:ASN:N	2.42	0.53
1:H:159:SER:OG	1:H:168:ARG:NH1	2.42	0.53
1:I:472:LEU:HD12	1:I:472:LEU:N	2.23	0.53
1:J:920:LEU:HG	1:J:920:LEU:O	2.09	0.53
2:2:576:LEU:HD23	2:2:576:LEU:C	2.28	0.53
2:2:671:ASP:OD1	2:2:671:ASP:N	2.32	0.53
2:2:986:PHE:C	2:2:987:TYR:CD2	2.82	0.53
1:D:328:ARG:NH1	1:D:368:ILE:O	2.41	0.53
1:D:1046:VAL:HG22	1:D:1075:LEU:HB3	1.90	0.53
1:C:322:THR:OG1	1:C:323:THR:N	2.41	0.53
1:C:1148:SER:HG	1:C:1163:ALA:HA	1.73	0.53
1:F:317:PHE:HZ	1:F:385:VAL:HG11	1.73	0.53
1:F:1006:ARG:NH1	1:F:1077:GLU:OE1	2.42	0.53
1:G:654:SER:HB3	1:G:680:PRO:HA	1.91	0.53
1:G:727:ARG:HG3	1:G:727:ARG:NH1	2.23	0.53
1:H:919:LEU:HD22	1:H:919:LEU:C	2.28	0.53
1:I:177:LYS:O	1:I:181:ALA:N	2.41	0.53
1:J:135:HIS:HD2	1:J:138:SER:HB2	1.74	0.53
1:B:554:SER:HB3	1:C:835:HIS:HA	1.91	0.53
1:D:417:VAL:O	1:D:421:ASN:ND2	2.42	0.53
1:D:702:SER:OG	1:D:737:ARG:NH1	2.42	0.53
1:D:709:ILE:HA	1:D:733:MET:HE1	1.90	0.53
1:F:124:ALA:HB2	1:F:168:ARG:NH2	2.24	0.53
1:F:193:LEU:CD1	1:F:409:MET:CE	2.87	0.53
1:H:165:ASP:HB3	1:H:167:ILE:HG12	1.91	0.53
1:H:455:GLN:NE2	1:H:455:GLN:CA	2.72	0.53
1:H:551:PRO:HB2	1:H:592:LEU:HD21	1.91	0.53
1:I:535:TRP:O	1:I:768:GLN:NE2	2.38	0.53
1:I:697:MET:CG	1:I:744:PRO:HB3	2.38	0.53
2:2:502:GLN:NE2	2:2:505:ARG:HH21	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:617:ARG:HH12	3:4:626:ASP:HA	1.74	0.53
1:B:1008:GLY:O	1:B:1011:VAL:HG13	2.09	0.53
1:D:868:ARG:CZ	1:D:879:PHE:HE2	2.20	0.53
1:F:743:THR:HA	1:F:746:TYR:HB3	1.89	0.53
1:H:539:GLY:HA2	1:H:807:PHE:CE2	2.37	0.53
2:2:42:ARG:HD3	2:2:210:LEU:HD22	1.91	0.53
3:4:566:ASP:OD2	3:4:570:ARG:NH2	2.41	0.53
1:B:257:ARG:N	1:B:257:ARG:CD	2.72	0.52
1:B:411:GLN:HB2	1:B:445:PHE:HB2	1.91	0.52
1:D:317:PHE:CE2	1:D:331:ARG:HG2	2.44	0.52
1:D:743:THR:HA	1:D:746:TYR:HB3	1.91	0.52
1:C:860:THR:HG23	1:C:919:LEU:HB2	1.90	0.52
1:F:193:LEU:HD11	1:F:409:MET:CE	2.38	0.52
1:J:237:GLU:HG3	1:J:237:GLU:O	2.08	0.52
1:J:923:LEU:HD21	1:J:931:ILE:HD13	1.91	0.52
2:2:1130:LEU:CD1	2:2:1130:LEU:N	2.72	0.52
1:B:1170:PRO:HD2	1:B:1189:THR:HG23	1.91	0.52
1:F:109:THR:HB	1:F:110:PRO:HD2	1.89	0.52
1:G:1012:ARG:HH21	1:G:1043:GLY:HA3	1.74	0.52
1:H:494:THR:O	1:H:498:THR:OG1	2.26	0.52
1:I:200:LEU:H	1:I:200:LEU:CD2	2.01	0.52
2:2:580:ALA:HB1	2:2:587:VAL:HG21	1.92	0.52
2:2:725:ILE:HG23	2:2:747:PRO:HG3	1.91	0.52
2:2:1127:VAL:HG12	2:2:1130:LEU:CD2	2.27	0.52
3:4:293:ILE:HA	3:4:313:THR:HA	1.91	0.52
1:A:259:LEU:O	1:A:259:LEU:HG	2.09	0.52
1:A:868:ARG:NH2	1:A:933:ASP:OD1	2.42	0.52
1:A:874:CYS:SG	1:A:875:GLN:N	2.81	0.52
1:B:328:ARG:NH2	1:B:366:ASP:O	2.40	0.52
1:C:492:VAL:HB	1:C:824:CYS:HB2	1.91	0.52
1:E:693:TYR:N	1:E:693:TYR:HD1	2.08	0.52
1:F:558:THR:HB	1:F:720:THR:HG21	0.64	0.52
1:F:676:VAL:O	1:F:768:GLN:NE2	2.42	0.52
1:I:392:ASP:OD2	1:I:393:ALA:N	2.42	0.52
1:I:871:VAL:O	1:I:875:GLN:NE2	2.42	0.52
2:2:17:LEU:CD2	2:2:166:ARG:HD3	2.30	0.52
2:2:87:ILE:O	2:2:88:ASP:CB	2.56	0.52
3:4:472:SER:O	3:4:476:PRO:CD	2.53	0.52
3:4:473:ILE:CG1	3:4:564:LEU:CG	2.86	0.52
1:B:219:LEU:HD23	1:B:352:THR:N	2.24	0.52
1:D:789:ASP:OD1	1:D:789:ASP:N	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:697:MET:HE3	1:C:744:PRO:CG	2.33	0.52
1:G:428:LEU:N	1:G:428:LEU:CD1	2.72	0.52
1:G:1050:ASP:OD2	1:H:1214:THR:N	2.36	0.52
1:H:688:THR:C	1:H:689:VAL:HG12	2.29	0.52
1:I:973:ASN:HB2	1:I:1144:ASP:HB2	1.91	0.52
2:2:402:LYS:HB2	2:2:772:LEU:HA	1.91	0.52
2:2:841:TRP:O	2:2:845:LEU:N	2.26	0.52
2:2:972:ASP:O	2:2:973:SER:HB3	2.10	0.52
3:4:406:LEU:HD11	3:4:584:LEU:HD12	1.90	0.52
3:4:655:ARG:HD2	3:4:674:LEU:HA	1.90	0.52
1:A:236:PRO:O	1:A:241:ASN:ND2	2.41	0.52
1:A:479:LEU:N	1:A:479:LEU:CD1	2.73	0.52
1:B:1016:ARG:O	1:B:1017:PHE:CB	2.56	0.52
1:D:122:CYS:SG	1:D:140:HIS:NE2	2.77	0.52
1:D:158:ARG:CG	1:D:1203:THR:HG21	2.39	0.52
1:D:1205:ASP:OD1	1:D:1205:ASP:N	2.41	0.52
1:F:790:PRO:CA	1:F:793:ARG:HH22	2.11	0.52
1:G:1023:ARG:CD	1:G:1023:ARG:N	2.73	0.52
1:H:277:VAL:HG22	1:H:299:LEU:HD22	1.92	0.52
1:I:406:LEU:N	1:I:406:LEU:CD1	2.73	0.52
1:I:1138:THR:OG1	1:I:1139:SER:N	2.41	0.52
2:2:78:GLN:HB3	2:2:81:VAL:CG2	2.39	0.52
2:2:121:GLU:O	2:2:125:THR:HG23	2.10	0.52
2:2:1141:ARG:NH1	2:2:1273:ASP:OD2	2.43	0.52
1:F:123:ASN:HB2	1:F:161:LEU:HD22	1.91	0.52
1:G:356:ASN:HB2	1:G:1151:ALA:CB	2.33	0.52
1:H:1092:ILE:O	1:H:1132:ARG:NH1	2.42	0.52
1:I:1020:ILE:HG12	1:I:1031:LEU:HD13	1.91	0.52
2:2:1130:LEU:HD23	2:2:1159:ILE:HG23	1.90	0.52
3:4:320:ASP:HB2	3:4:593:LEU:HB3	1.92	0.52
3:4:631:VAL:HG21	3:4:666:MET:HE2	1.92	0.52
3:4:658:VAL:HG13	3:4:708:PHE:O	2.09	0.52
1:B:457:MET:HE3	1:B:920:LEU:CB	2.40	0.52
1:C:1161:ASN:OD1	1:C:1161:ASN:N	2.43	0.52
1:F:404:MET:HG2	1:F:956:HIS:CE1	2.45	0.52
1:G:147:LEU:N	1:G:147:LEU:CD2	2.73	0.52
1:H:864:PHE:HE1	1:H:931:ILE:HD12	1.75	0.52
1:H:995:PRO:HD2	1:H:1119:ILE:HG12	1.92	0.52
1:H:1027:LEU:N	1:H:1027:LEU:CD1	2.72	0.52
1:I:167:ILE:CG1	1:I:168:ARG:H	2.17	0.52
1:I:517:LEU:HD11	1:I:565:LYS:HE2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:252:LEU:HD11	1:J:336:ARG:N	2.23	0.52
2:2:986:PHE:CD2	2:2:986:PHE:N	2.78	0.52
2:2:1127:VAL:HG11	2:2:1130:LEU:HD22	1.88	0.52
3:4:15:THR:O	3:4:16:ASP:HB3	2.10	0.52
3:4:321:LEU:HD21	3:4:348:LEU:HD23	1.92	0.52
3:4:473:ILE:HG13	3:4:564:LEU:HD11	1.92	0.52
1:B:219:LEU:HD21	1:B:351:PRO:HG2	1.91	0.52
1:D:158:ARG:CG	1:D:1203:THR:CG2	2.87	0.52
1:C:1013:VAL:O	1:C:1034:ASP:N	2.43	0.52
1:E:519:GLN:O	1:E:520:PRO:C	2.45	0.52
1:E:595:GLN:HG2	1:G:738:GLN:HG2	1.92	0.52
1:F:527:ALA:HB1	1:F:813:VAL:HG13	1.90	0.52
1:H:772:THR:HG21	1:H:778:ASP:HB3	1.92	0.52
1:J:861:ARG:NH1	1:J:862:GLU:OE2	2.43	0.52
2:2:496:LYS:O	2:2:497:ILE:C	2.46	0.52
1:B:774:LEU:N	1:B:774:LEU:CD2	2.73	0.52
1:B:856:ARG:HH12	1:B:917:GLY:HA3	1.74	0.52
1:B:920:LEU:HD12	1:B:920:LEU:N	2.25	0.52
1:C:836:HIS:CE1	2:2:748:HIS:NE2	2.78	0.52
1:F:1040:ASP:N	1:F:1040:ASP:OD1	2.43	0.52
1:G:614:GLN:NE2	1:H:719:ALA:O	2.43	0.52
1:J:324:ILE:CD1	1:J:325:THR:H	2.09	0.52
1:J:995:PRO:HD2	1:J:1119:ILE:HG12	1.90	0.52
2:2:309:ARG:HG3	2:2:732:GLN:CG	2.40	0.52
2:2:505:ARG:CG	2:2:505:ARG:NH1	2.72	0.52
3:4:655:ARG:HA	3:4:672:PRO:CD	2.40	0.52
3:4:665:LEU:N	3:4:665:LEU:CD2	2.73	0.52
1:A:437:ARG:NH1	1:A:1207:ILE:O	2.39	0.52
1:A:460:VAL:HG12	1:A:922:GLY:HA3	1.92	0.52
1:A:470:LEU:CD1	1:A:470:LEU:N	2.73	0.52
1:B:450:ASP:OD2	1:B:861:ARG:NE	2.37	0.52
1:B:617:HIS:HB3	1:B:620:VAL:HG23	1.91	0.52
1:D:1102:GLU:OE2	1:D:1106:LYS:NZ	2.42	0.52
1:C:184:ASP:OD1	1:C:184:ASP:N	2.40	0.52
1:C:401:THR:HG21	1:C:960:ALA:HB2	1.92	0.52
1:F:765:PRO:HD3	1:F:853:ARG:HD2	1.92	0.52
1:I:208:ASP:OD1	1:I:208:ASP:N	2.43	0.52
2:2:575:PRO:HG3	2:2:1110:PRO:HD2	1.92	0.52
2:2:1061:SER:OG	2:2:1062:ARG:N	2.43	0.52
1:A:197:ASP:OD2	1:A:399:ARG:NH1	2.42	0.51
1:B:971:GLU:OE1	1:B:1168:ARG:NH2	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:646:ILE:HG22	1:D:774:LEU:HD21	1.92	0.51
1:H:370:ARG:HA	1:H:387:CYS:HA	1.91	0.51
1:J:798:VAL:HG12	1:J:799:ASP:N	2.24	0.51
2:2:22:GLU:OE1	2:2:166:ARG:NH1	2.43	0.51
2:2:42:ARG:NH1	2:2:152:ASP:OD2	2.43	0.51
2:2:1136:ASP:OD2	2:2:1182:GLN:HG2	2.09	0.51
1:B:16:PRO:O	1:B:17:ALA:CB	2.57	0.51
1:B:215:LEU:N	1:B:215:LEU:CD2	2.73	0.51
1:B:451:LEU:HD13	1:B:666:ALA:HB2	1.92	0.51
1:D:499:THR:HG22	1:D:500:ILE:HG13	1.92	0.51
1:D:1020:ILE:HD12	1:D:1031:LEU:HD13	1.90	0.51
1:F:317:PHE:CZ	1:F:385:VAL:HG11	2.45	0.51
1:F:325:THR:O	1:F:328:ARG:CB	2.58	0.51
1:H:1046:VAL:HG13	1:H:1075:LEU:HD23	1.92	0.51
1:I:472:LEU:N	1:I:472:LEU:CD1	2.73	0.51
1:I:523:ASN:HA	1:I:525:TYR:HE1	1.74	0.51
2:2:387:PRO:CG	2:2:671:ASP:CB	2.87	0.51
2:2:490:LYS:O	2:2:490:LYS:HG3	2.10	0.51
3:4:655:ARG:CD	3:4:674:LEU:HB2	2.40	0.51
3:4:689:TYR:HH	3:4:692:HIS:CE1	2.17	0.51
1:A:1153:SER:OG	1:A:1154:ILE:N	2.42	0.51
1:B:713:ASN:OD1	1:B:730:THR:OG1	2.28	0.51
1:C:165:ASP:OD1	1:C:168:ARG:NH2	2.44	0.51
1:H:376:LEU:HD12	1:H:438:PRO:HB2	1.92	0.51
1:I:427:LEU:CD1	1:I:837:TYR:CB	2.87	0.51
2:2:387:PRO:CG	2:2:671:ASP:HB3	2.40	0.51
3:4:655:ARG:NE	3:4:674:LEU:CG	2.61	0.51
1:A:1017:PHE:CZ	1:B:1211:ARG:CG	2.94	0.51
1:C:432:ILE:O	1:C:432:ILE:HG23	2.10	0.51
1:E:532:ILE:HD13	1:E:751:CYS:SG	2.51	0.51
1:F:910:LYS:HG3	1:F:919:LEU:HD12	1.93	0.51
1:G:284:ASP:OD1	1:G:287:GLN:NE2	2.39	0.51
1:G:424:ALA:HB1	1:G:428:LEU:CD1	2.41	0.51
1:H:79:ILE:HG12	1:H:81:ARG:O	2.10	0.51
1:H:471:PRO:HA	1:H:474:GLU:HB3	1.91	0.51
1:H:590:ALA:HB1	1:H:608:GLN:NE2	2.24	0.51
1:I:722:ASN:HB2	1:I:725:THR:CG2	2.40	0.51
1:J:915:LEU:CD1	1:J:919:LEU:HD12	2.41	0.51
2:2:845:LEU:O	2:2:845:LEU:HD23	2.10	0.51
3:4:9:THR:O	3:4:12:PHE:HB2	2.10	0.51
1:A:184:ASP:OD2	1:A:461:ASN:ND2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:198:THR:O	1:A:331:ARG:NH1	2.36	0.51
1:A:476:LEU:CD2	1:A:533:ALA:CA	2.88	0.51
1:A:581:SER:N	1:A:582:PRO:CD	2.73	0.51
1:B:122:CYS:HB2	1:B:135:HIS:CE1	2.46	0.51
1:D:252:LEU:HD22	1:D:333:PHE:HB3	1.92	0.51
1:C:746:TYR:OH	1:C:754:GLU:OE1	2.26	0.51
1:C:991:GLY:O	1:C:1132:ARG:NH2	2.42	0.51
1:E:532:ILE:HD11	1:E:747:ILE:CD1	2.40	0.51
1:F:1107:ILE:HG12	1:F:1113:PRO:HD2	1.93	0.51
1:G:320:ASP:OD2	1:G:325:THR:OG1	2.28	0.51
1:G:800:ILE:HG12	1:G:945:VAL:HG21	1.91	0.51
1:H:807:PHE:HD2	1:H:807:PHE:O	1.93	0.51
1:I:697:MET:HB3	1:I:744:PRO:CA	2.41	0.51
1:I:1041:ILE:HG23	1:I:1063:VAL:HG23	1.93	0.51
1:I:1078:LEU:N	1:I:1078:LEU:CD2	2.72	0.51
1:J:241:ASN:O	1:J:1147:PHE:N	2.40	0.51
2:2:410:TRP:CD1	3:4:575:PRO:HG3	2.45	0.51
3:4:284:PHE:CD1	3:4:682:THR:HA	2.45	0.51
3:4:657:LEU:HB2	3:4:712:LEU:CD2	2.41	0.51
1:A:294:ARG:NH1	1:A:873:GLN:O	2.44	0.51
1:A:392:ASP:OD1	1:A:392:ASP:N	2.44	0.51
1:A:1188:ILE:O	1:A:1188:ILE:HG22	2.11	0.51
1:D:352:THR:OG1	1:D:353:GLN:N	2.44	0.51
1:D:1016:ARG:NH2	1:D:1017:PHE:HE2	2.09	0.51
1:C:356:ASN:OD1	1:C:1151:ALA:HB1	2.09	0.51
1:E:249:TRP:HZ3	1:E:342:LEU:HD23	1.76	0.51
1:E:656:PHE:CE1	1:E:752:PRO:HA	2.46	0.51
1:E:1183:ASP:OD1	1:E:1183:ASP:N	2.39	0.51
1:G:243:ILE:HD11	1:G:1147:PHE:HD1	1.75	0.51
1:G:723:ASP:HA	1:G:726:ARG:HH12	1.75	0.51
1:H:869:SER:OG	1:H:873:GLN:NE2	2.44	0.51
1:I:315:SER:OG	1:I:331:ARG:NH1	2.40	0.51
2:2:717:VAL:CB	2:2:722:LEU:HD12	2.39	0.51
1:G:543:THR:O	1:G:576:THR:OG1	2.28	0.51
1:H:1023:ARG:HH12	1:H:1030:GLN:HE22	1.50	0.51
2:2:80:ARG:HH22	3:4:707:SER:CB	2.24	0.51
2:2:398:VAL:O	3:4:497:ARG:NH1	2.44	0.51
3:4:617:ARG:NH2	3:4:626:ASP:CB	2.70	0.51
1:A:472:LEU:N	1:A:472:LEU:CD1	2.73	0.51
1:D:328:ARG:NH1	1:D:328:ARG:HB3	2.26	0.51
1:D:1078:LEU:CD1	1:D:1078:LEU:N	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:967:THR:OG1	1:C:1184:LEU:O	2.28	0.51
1:E:221:GLY:O	1:E:224:TRP:NE1	2.44	0.51
1:E:421:ASN:ND2	1:E:430:SER:OG	2.42	0.51
1:E:538:ASN:C	1:E:540:LEU:N	2.64	0.51
1:E:701:ILE:HD11	1:E:822:MET:CG	2.39	0.51
1:F:555:GLN:HG3	1:F:559:HIS:CB	2.41	0.51
1:G:255:GLU:CG	1:G:256:GLY:O	2.57	0.51
1:H:410:HIS:HD2	1:H:442:CYS:H	1.59	0.51
1:I:164:TRP:CE2	1:I:520:PRO:HD3	2.46	0.51
1:I:397:HIS:ND1	1:I:397:HIS:O	2.43	0.51
1:I:761:VAL:HG11	1:I:844:LEU:HD13	1.93	0.51
1:J:312:ASN:HB3	1:J:1196:ARG:HE	1.75	0.51
1:J:324:ILE:O	1:J:325:THR:CB	2.56	0.51
2:2:80:ARG:CD	2:2:128:ARG:NE	2.65	0.51
2:2:447:GLN:O	2:2:453:ASN:ND2	2.43	0.51
1:A:389:GLU:OE2	1:A:1196:ARG:NH2	2.44	0.51
1:D:448:SER:OG	1:D:665:SER:N	2.43	0.51
1:D:1019:THR:HG23	1:E:352:THR:CA	2.40	0.51
1:F:407:ARG:NH1	1:F:440:ILE:O	2.44	0.51
1:F:556:SER:HA	1:F:592:LEU:O	2.10	0.51
1:F:705:ILE:HG21	1:F:737:ARG:HB2	1.93	0.51
1:G:292:ALA:O	1:G:296:ASN:ND2	2.42	0.51
1:H:1020:ILE:HG13	1:H:1058:VAL:HG22	1.93	0.51
1:J:120:ASN:OD1	1:J:136:LEU:HD23	2.10	0.51
1:C:788:VAL:HG23	1:C:931:ILE:HB	1.93	0.51
1:C:847:SER:OG	1:C:848:ASN:N	2.42	0.51
1:E:524:ASP:O	1:E:525:TYR:HD2	1.93	0.51
1:E:789:ASP:HB3	1:E:933:ASP:HB3	1.92	0.51
1:E:882:PRO:O	1:E:962:GLN:NE2	2.44	0.51
1:G:208:ASP:HA	1:G:241:ASN:HA	1.92	0.51
1:G:355:LYS:NZ	1:G:355:LYS:CB	2.72	0.51
1:G:906:ASN:ND2	1:G:921:ASP:OD1	2.44	0.51
1:I:778:ASP:OD1	1:I:940:GLN:NE2	2.44	0.51
2:2:80:ARG:NH1	2:2:128:ARG:NH2	2.56	0.51
2:2:287:LEU:CD2	2:2:375:MET:SD	2.99	0.51
2:2:1078:ILE:HG21	2:2:1207:HIS:NE2	2.27	0.51
3:4:352:MET:CE	3:4:593:LEU:CD2	2.89	0.51
3:4:394:ARG:NH2	3:4:677:VAL:O	2.44	0.51
3:4:629:LEU:CD1	3:4:695:PRO:HD2	2.41	0.51
3:4:665:LEU:HD23	3:4:665:LEU:N	2.25	0.51
1:A:174:VAL:CB	1:A:900:GLU:HG2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:795:ASP:OD2	1:B:737:ARG:NH2	2.40	0.50
1:B:241:ASN:ND2	1:B:1148:SER:OG	2.42	0.50
1:D:650:TRP:O	1:D:773:ARG:NH1	2.45	0.50
1:C:174:VAL:HG21	1:C:474:GLU:HG3	1.91	0.50
1:C:208:ASP:N	1:C:208:ASP:OD1	2.44	0.50
1:C:1140:GLU:O	1:C:1142:ASN:ND2	2.44	0.50
1:E:1138:THR:HG21	1:E:1142:ASN:HD22	1.76	0.50
2:2:105:THR:HG1	2:2:115:PHE:HE1	1.59	0.50
2:2:247:MET:CB	2:2:839:LEU:CD1	2.89	0.50
2:2:497:ILE:CD1	2:2:498:TYR:CD1	2.92	0.50
3:4:413:TYR:OH	3:4:548:ASN:ND2	2.43	0.50
1:A:607:HIS:H	1:A:610:THR:HG1	1.58	0.50
1:E:183:LEU:HD21	1:E:849:ALA:HB3	1.93	0.50
1:E:373:ARG:HD3	1:E:385:VAL:HG12	1.93	0.50
1:E:531:CYS:SG	1:E:818:ILE:HD11	2.51	0.50
1:E:656:PHE:CD2	1:E:656:PHE:N	2.73	0.50
1:F:792:GLN:NE2	1:F:792:GLN:N	2.60	0.50
1:I:470:LEU:HB3	1:I:471:PRO:HD3	1.93	0.50
1:I:981:ASN:OD1	1:I:981:ASN:N	2.40	0.50
3:4:473:ILE:HG12	3:4:564:LEU:CD2	2.40	0.50
3:4:538:ARG:CZ	3:4:576:LEU:HD22	2.42	0.50
1:B:119:CYS:CB	1:B:124:ALA:H	2.07	0.50
1:B:370:ARG:HA	1:B:387:CYS:HA	1.93	0.50
1:C:446:ALA:H	1:C:854:ASN:HB3	1.76	0.50
1:E:663:GLN:NE2	1:E:850:MET:CE	2.71	0.50
1:F:75:ASP:OD1	1:F:75:ASP:N	2.44	0.50
1:H:1140:GLU:O	1:H:1142:ASN:ND2	2.44	0.50
1:J:670:ILE:HD13	1:J:768:GLN:HB2	1.92	0.50
2:2:254:LEU:CD2	2:2:377:LEU:HD11	2.42	0.50
2:2:261:MET:HA	2:2:346:LEU:HD21	1.94	0.50
2:2:414:ILE:HG22	2:2:635:ASP:HA	1.92	0.50
2:2:458:ARG:NH1	2:2:509:MET:CG	2.74	0.50
2:2:576:LEU:C	2:2:578:LEU:N	2.65	0.50
3:4:438:ASP:OD2	3:4:522:HIS:NE2	2.43	0.50
1:A:175:SER:O	1:A:177:LYS:N	2.45	0.50
1:B:874:CYS:SG	1:B:901:ILE:HD13	2.52	0.50
1:F:294:ARG:HB3	1:F:890:GLN:HB2	1.93	0.50
1:F:1014:VAL:HG13	1:F:1048:PRO:HD2	1.94	0.50
1:G:164:TRP:CZ3	1:G:167:ILE:HG21	2.45	0.50
1:G:714:SER:OG	1:G:716:ASN:ND2	2.45	0.50
1:I:462:ILE:CD1	1:I:468:ALA:CB	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:386:GLN:CD	2:2:674:SER:OG	2.48	0.50
1:B:459:LEU:HD12	1:B:459:LEU:C	2.22	0.50
1:D:709:ILE:CG1	1:D:733:MET:HE2	2.28	0.50
1:E:320:ASP:OD2	1:E:325:THR:OG1	2.28	0.50
1:F:191:PRO:HB3	1:F:915:LEU:HD12	1.93	0.50
1:F:440:ILE:HD11	1:F:1202:PRO:HG3	1.93	0.50
1:G:417:VAL:HG21	1:G:432:ILE:HG12	1.92	0.50
1:G:701:ILE:HD11	1:G:822:MET:SD	2.52	0.50
2:2:93:VAL:HG21	2:2:389:MET:CG	2.32	0.50
2:2:163:VAL:CG1	2:2:843:GLU:OE2	2.60	0.50
1:A:210:ILE:O	1:A:239:ALA:N	2.44	0.50
1:A:243:ILE:HG13	1:A:1147:PHE:HB2	1.94	0.50
1:A:586:PHE:C	1:A:586:PHE:CD2	2.85	0.50
1:B:632:ASN:HB2	1:B:635:GLN:HB3	1.94	0.50
1:I:235:LEU:HB2	1:I:356:ASN:HD22	1.77	0.50
1:J:625:PHE:O	1:J:647:ARG:NH2	2.44	0.50
1:J:1068:LYS:NZ	1:J:1101:GLU:OE2	2.39	0.50
2:2:247:MET:CE	2:2:843:GLU:HG3	2.41	0.50
2:2:511:LEU:C	2:2:513:ALA:N	2.64	0.50
2:2:854:TYR:C	2:2:854:TYR:CD2	2.85	0.50
1:A:476:LEU:O	1:A:476:LEU:HG	2.09	0.50
1:B:441:LEU:HG	1:B:443:PRO:HD3	1.92	0.50
1:B:969:MET:O	1:B:979:ARG:NH2	2.45	0.50
1:F:317:PHE:H	1:F:317:PHE:HD2	1.58	0.50
1:F:559:HIS:CD2	1:F:561:PRO:HG2	2.47	0.50
1:H:328:ARG:HE	1:H:366:ASP:HA	1.76	0.50
1:H:463:SER:CB	1:H:926:TYR:OH	2.59	0.50
1:H:807:PHE:C	1:H:807:PHE:CD2	2.85	0.50
1:I:618:PRO:O	1:I:776:GLN:NE2	2.42	0.50
1:J:126:PHE:CE2	1:J:135:HIS:CB	2.77	0.50
1:J:1189:THR:HG22	1:J:1191:TYR:H	1.77	0.50
2:2:387:PRO:CB	2:2:671:ASP:CB	2.82	0.50
3:4:617:ARG:HH12	3:4:626:ASP:CB	2.25	0.50
1:A:179:LEU:HD13	1:A:179:LEU:C	2.32	0.50
1:A:179:LEU:CD1	1:A:179:LEU:N	2.73	0.50
1:A:260:GLU:CG	1:A:307:SER:CB	2.90	0.50
1:A:686:ARG:HG3	1:A:834:SER:HB3	1.94	0.50
1:B:257:ARG:NH1	1:B:912:ALA:O	2.43	0.50
1:B:1044:ASP:OD1	1:B:1044:ASP:N	2.42	0.50
1:D:1012:ARG:HH12	1:D:1043:GLY:HA3	1.76	0.50
1:C:516:ARG:NH2	2:2:1209:TYR:OH	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:245:CYS:HB3	1:G:263:LEU:HD23	1.94	0.50
1:I:557:ILE:HD13	1:I:593:LEU:HD22	1.93	0.50
1:I:1156:THR:HB	1:I:1161:ASN:HB3	1.92	0.50
1:J:981:ASN:OD1	1:J:981:ASN:N	2.43	0.50
2:2:25:LEU:HD23	2:2:25:LEU:N	2.25	0.50
2:2:493:LYS:HZ1	2:2:978:THR:HB	1.75	0.50
2:2:847:PHE:C	2:2:847:PHE:CD2	2.85	0.50
2:2:1023:VAL:HG11	2:2:1130:LEU:CD1	2.42	0.50
2:2:1075:GLY:O	2:2:1249:ARG:HB2	2.12	0.50
3:4:621:TRP:CE2	3:4:702:ASN:CA	2.65	0.50
1:B:660:SER:OG	1:B:661:THR:N	2.45	0.50
1:D:655:GLU:CD	1:D:674:ARG:HD3	2.32	0.50
1:E:210:ILE:CG2	1:E:239:ALA:HB3	2.42	0.50
1:E:1091:GLN:NE2	1:E:1125:TYR:OH	2.45	0.50
1:G:255:GLU:HG2	1:G:256:GLY:N	2.25	0.50
1:H:463:SER:HA	1:H:801:ARG:NH2	2.22	0.50
1:H:571:LEU:HD11	1:H:705:ILE:HD11	1.93	0.50
1:H:1040:ASP:OD1	1:H:1040:ASP:N	2.42	0.50
1:I:698:SER:N	1:I:744:PRO:HB3	2.27	0.50
1:I:701:ILE:HD13	1:I:823:LEU:HD12	1.92	0.50
1:J:126:PHE:HB2	1:J:131:ALA:CB	2.38	0.50
2:2:970:SER:O	2:2:971:SER:HB2	2.10	0.50
2:2:1055:ARG:NH1	2:2:1058:HIS:CE1	2.80	0.50
3:4:651:ARG:CG	3:4:713:GLU:HG3	2.12	0.50
1:A:174:VAL:HG11	1:A:900:GLU:HG2	1.91	0.49
1:A:198:THR:H	1:A:253:GLY:HA3	1.77	0.49
1:B:123:ASN:ND2	1:B:168:ARG:HH21	2.09	0.49
1:B:354:THR:O	1:B:358:GLN:NE2	2.45	0.49
1:C:433:PRO:CD	1:C:437:ARG:NH1	2.71	0.49
1:C:707:PHE:CD1	1:C:707:PHE:C	2.85	0.49
1:C:1025:ASN:N	1:C:1025:ASN:OD1	2.41	0.49
1:C:1144:ASP:OD2	1:C:1168:ARG:NH2	2.44	0.49
1:E:746:TYR:OH	1:E:754:GLU:OE1	2.27	0.49
1:H:692:THR:CG2	1:H:693:TYR:N	2.75	0.49
1:I:427:LEU:HD13	1:I:837:TYR:HB3	1.87	0.49
1:J:923:LEU:CD2	1:J:931:ILE:CD1	2.89	0.49
3:4:29:SER:OG	3:4:30:GLN:N	2.45	0.49
3:4:356:VAL:HG23	3:4:365:VAL:O	2.12	0.49
3:4:435:ALA:HB2	3:4:688:THR:HG21	1.94	0.49
1:A:177:LYS:HB3	1:A:177:LYS:HZ3	1.74	0.49
1:B:325:THR:HG21	1:B:347:ARG:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1020:ILE:HD11	1:B:1031:LEU:HD22	1.94	0.49
1:D:393:ALA:CB	1:D:1184:LEU:CD2	2.74	0.49
1:C:525:TYR:N	1:C:525:TYR:CD1	2.80	0.49
1:E:658:TYR:CD2	1:E:658:TYR:C	2.85	0.49
1:E:1017:PHE:HB2	1:E:1019:THR:HG22	1.94	0.49
1:G:427:LEU:HD23	1:G:841:PHE:HD2	1.77	0.49
1:H:241:ASN:ND2	1:H:1148:SER:OG	2.45	0.49
1:I:1079:GLY:C	1:I:1080:HIS:HD1	2.14	0.49
1:J:256:GLY:O	1:J:257:ARG:C	2.47	0.49
1:J:740:LYS:NZ	1:J:742:MET:SD	2.85	0.49
2:2:78:GLN:NE2	2:2:78:GLN:CA	2.73	0.49
2:2:470:ALA:HA	2:2:523:ILE:HB	1.93	0.49
2:2:1091:GLY:C	2:2:1093:ASP:H	2.15	0.49
3:4:356:VAL:HG23	3:4:356:VAL:O	2.12	0.49
1:A:280:ARG:NH1	1:A:280:ARG:CB	2.73	0.49
1:D:320:ASP:OD1	1:D:322:THR:OG1	2.30	0.49
1:C:257:ARG:HG2	1:C:307:SER:HA	1.93	0.49
1:C:1156:THR:HB	1:C:1161:ASN:HB3	1.94	0.49
1:F:470:LEU:HD12	1:F:811:LEU:HD11	1.94	0.49
1:F:920:LEU:HG	1:F:923:LEU:HD13	1.93	0.49
1:I:781:THR:OG1	1:I:782:ASN:ND2	2.45	0.49
3:4:199:PRO:HB3	3:4:228:LEU:HD11	1.95	0.49
1:A:460:VAL:HG13	1:A:787:ARG:HE	1.78	0.49
1:B:257:ARG:O	1:B:258:GLY:C	2.48	0.49
1:E:861:ARG:O	1:E:865:VAL:HG23	2.12	0.49
1:F:992:ASN:OD1	1:F:992:ASN:N	2.45	0.49
1:H:331:ARG:NH1	1:H:1196:ARG:HD3	2.22	0.49
1:H:689:VAL:O	1:H:689:VAL:HG22	2.12	0.49
1:I:521:MET:HG2	1:I:814:ASP:OD2	2.12	0.49
1:I:552:ASP:N	1:I:552:ASP:OD1	2.44	0.49
1:J:1054:VAL:CG2	1:J:1055:SER:N	2.76	0.49
2:2:65:TYR:HA	2:2:228:VAL:HG11	1.94	0.49
2:2:305:TRP:CD1	2:2:314:PHE:CE1	3.01	0.49
2:2:581:SER:OG	2:2:794:MET:N	2.45	0.49
2:2:841:TRP:HD1	2:2:841:TRP:H	1.61	0.49
2:2:1235:LEU:HA	2:2:1238:THR:HG22	1.94	0.49
1:A:552:ASP:OD1	1:A:552:ASP:N	2.46	0.49
1:B:883:ARG:HB3	1:B:886:ASP:HB2	1.93	0.49
1:C:462:ILE:HG13	1:C:468:ALA:HB1	1.93	0.49
1:F:376:LEU:HD22	1:F:438:PRO:HB3	1.95	0.49
1:F:598:PRO:HA	1:F:608:GLN:HE22	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:658:TYR:OH	1:G:667:ASN:ND2	2.45	0.49
1:G:697:MET:O	1:G:701:ILE:HG13	2.12	0.49
1:G:743:THR:HG21	1:G:822:MET:HA	1.95	0.49
1:G:829:THR:OG1	1:G:830:ASN:N	2.44	0.49
1:G:1005:VAL:O	1:G:1006:ARG:C	2.48	0.49
1:H:687:LEU:N	1:H:687:LEU:CD2	2.72	0.49
1:H:1205:ASP:N	1:H:1205:ASP:OD1	2.46	0.49
1:J:126:PHE:H	1:J:126:PHE:HD2	1.59	0.49
1:J:196:GLU:O	1:J:254:ASP:HB2	2.12	0.49
1:J:906:ASN:OD1	1:J:919:LEU:CD2	2.60	0.49
2:2:287:LEU:HD11	2:2:784:THR:HG21	1.93	0.49
2:2:1020:LEU:HD21	2:2:1127:VAL:HG21	1.95	0.49
3:4:480:THR:CG2	3:4:481:SER:N	2.75	0.49
1:A:789:ASP:HB2	1:A:933:ASP:HB3	1.94	0.49
1:D:601:ILE:HG23	1:D:622:PRO:HB3	1.94	0.49
1:C:607:HIS:O	1:C:610:THR:OG1	2.30	0.49
1:F:633:PRO:HG3	1:F:640:ARG:HD2	1.94	0.49
1:H:411:GLN:HB2	1:H:445:PHE:HB2	1.95	0.49
1:I:331:ARG:HH21	1:I:389:GLU:CD	2.15	0.49
1:I:464:SER:HB3	1:I:468:ALA:CB	2.42	0.49
1:J:1059:PHE:CD1	1:J:1063:VAL:HG13	2.47	0.49
2:2:95:VAL:HG13	2:2:96:PRO:CD	2.41	0.49
2:2:258:GLY:O	2:2:261:MET:HB3	2.12	0.49
2:2:334:ASP:CG	2:2:357:ARG:HH22	2.16	0.49
2:2:625:PHE:CD2	2:2:625:PHE:C	2.85	0.49
2:2:851:PHE:CD2	2:2:851:PHE:C	2.85	0.49
2:2:890:GLN:HG2	2:2:894:ILE:HD11	1.95	0.49
3:4:357:THR:CG2	3:4:363:ARG:O	2.60	0.49
1:A:171:SER:N	1:A:172:PRO:CD	2.75	0.49
1:A:274:TYR:OH	1:A:975:PHE:O	2.31	0.49
1:B:578:ASP:HB3	1:B:581:SER:HB2	1.95	0.49
1:B:1031:LEU:HD12	1:B:1032:ILE:H	1.78	0.49
1:D:292:ALA:O	1:D:296:ASN:ND2	2.45	0.49
1:D:666:ALA:HB3	1:D:765:PRO:CG	2.43	0.49
1:D:1170:PRO:HD2	1:D:1189:THR:HG23	1.95	0.49
1:E:444:TRP:HB3	1:E:851:PHE:HB3	1.95	0.49
1:E:488:LEU:HA	1:E:825:GLY:HA2	1.94	0.49
1:F:394:LEU:HD11	1:F:964:VAL:HG22	1.95	0.49
1:H:330:ILE:HD12	1:H:340:LEU:HD11	1.95	0.49
1:I:697:MET:HB3	1:I:744:PRO:HA	1.95	0.49
1:J:198:THR:HB	1:J:315:SER:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:397:PRO:O	3:4:535:GLN:NE2	2.45	0.49
3:4:649:GLU:OE1	3:4:649:GLU:HA	2.12	0.49
3:4:652:LEU:CD1	3:4:652:LEU:H	2.26	0.49
1:A:469:ALA:HB1	1:A:541:VAL:HB	1.94	0.49
1:D:472:LEU:HD12	1:D:764:THR:HG21	1.94	0.49
1:D:1209:TYR:HE1	1:C:1058:VAL:HG21	1.78	0.49
1:C:685:PRO:HD3	1:C:749:HIS:HB3	1.94	0.49
1:C:1183:ASP:OD2	1:C:1187:ARG:NH1	2.46	0.49
1:F:328:ARG:NH2	1:F:366:ASP:OD1	2.46	0.49
1:F:578:ASP:HB3	1:F:581:SER:HB2	1.95	0.49
1:F:595:GLN:HB2	1:G:686:ARG:HG3	1.94	0.49
1:I:250:ALA:HB1	1:I:339:LEU:HD21	1.95	0.49
1:J:875:GLN:OE1	1:J:930:ARG:CG	2.61	0.49
2:2:5:PHE:CZ	2:2:13:GLN:HG3	2.48	0.49
2:2:987:TYR:CB	2:2:992:LYS:HE3	2.39	0.49
3:4:62:LEU:CD2	3:4:224:LEU:HD11	2.43	0.49
3:4:419:ASP:OD1	3:4:419:ASP:N	2.45	0.49
3:4:576:LEU:O	3:4:577:ALA:C	2.50	0.49
1:A:517:LEU:CD1	1:A:568:PHE:CD2	2.87	0.49
1:A:519:GLN:NE2	1:A:519:GLN:N	2.60	0.49
1:B:872:ALA:O	1:B:883:ARG:NH2	2.45	0.49
1:D:784:LEU:HD11	1:D:802:ALA:HB2	1.95	0.49
1:D:1188:ILE:O	1:D:1189:THR:C	2.51	0.49
1:E:667:ASN:ND2	1:E:674:ARG:O	2.45	0.49
1:E:891:PHE:HE1	1:F:1214:THR:HG21	1.77	0.49
1:H:702:SER:O	1:H:702:SER:OG	2.31	0.49
2:2:269:HIS:N	2:2:269:HIS:ND1	2.61	0.49
2:2:346:LEU:O	2:2:349:ILE:HG12	2.13	0.49
2:2:1078:ILE:HG22	2:2:1079:PRO:CD	2.41	0.49
1:A:595:GLN:HG2	1:C:738:GLN:HG2	1.94	0.49
1:A:718:THR:O	1:C:727:ARG:NH1	2.46	0.49
1:B:257:ARG:NH1	1:B:257:ARG:CG	2.75	0.49
1:B:617:HIS:HD2	1:B:619:GLY:H	1.61	0.49
1:B:995:PRO:HD2	1:B:1119:ILE:HG12	1.95	0.49
1:D:274:TYR:OH	1:D:975:PHE:O	2.30	0.49
1:D:328:ARG:HB3	1:D:328:ARG:CZ	2.43	0.49
1:C:242:ARG:NH1	1:C:1145:SER:O	2.45	0.49
1:C:517:LEU:HD22	1:C:517:LEU:C	2.28	0.49
1:C:892:ASP:OD1	1:C:894:THR:OG1	2.31	0.49
1:F:864:PHE:HD1	1:F:920:LEU:CD1	2.25	0.49
1:G:552:ASP:OD1	1:G:552:ASP:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:202:THR:HG1	1:J:249:TRP:HE1	1.60	0.49
1:J:629:GLN:HA	1:J:640:ARG:HH12	1.77	0.49
2:2:910:LEU:HD12	2:2:913:TRP:HE1	1.78	0.49
2:2:986:PHE:CZ	2:2:1027:TRP:CD1	3.00	0.49
3:4:473:ILE:CD1	3:4:564:LEU:HD11	2.42	0.49
1:A:179:LEU:HB2	1:A:182:TYR:CD2	2.47	0.48
1:B:37:THR:O	1:B:38:SER:C	2.51	0.48
1:B:413:PRO:HG2	1:B:434:ILE:HD13	1.94	0.48
1:B:1008:GLY:H	1:B:1011:VAL:CG1	2.23	0.48
1:D:197:ASP:HA	1:D:253:GLY:HA3	1.95	0.48
1:C:1211:ARG:HH11	1:C:1211:ARG:HA	1.78	0.48
1:E:189:ASN:HD21	1:E:917:GLY:H	1.60	0.48
1:E:514:ILE:HA	1:E:517:LEU:HB2	1.95	0.48
1:F:193:LEU:HD11	1:F:409:MET:HE1	1.95	0.48
1:F:621:TRP:HE3	1:F:626:LEU:HD21	1.77	0.48
1:H:119:CYS:HG	1:H:132:LEU:HD12	1.77	0.48
2:2:105:THR:OG1	2:2:118:PRO:HD3	2.13	0.48
2:2:346:LEU:O	2:2:349:ILE:N	2.40	0.48
1:A:175:SER:HB3	1:A:900:GLU:HG3	1.95	0.48
1:B:373:ARG:H	1:B:373:ARG:HD2	1.78	0.48
1:B:789:ASP:OD1	1:B:789:ASP:N	2.45	0.48
1:C:520:PRO:HB2	1:C:523:ASN:CA	2.37	0.48
1:C:708:PHE:O	1:C:709:ILE:C	2.49	0.48
1:E:249:TRP:CZ3	1:E:342:LEU:HD23	2.49	0.48
1:E:370:ARG:HE	1:E:373:ARG:HH21	1.62	0.48
1:E:982:LEU:HB3	1:E:1076:VAL:HB	1.95	0.48
1:E:1040:ASP:N	1:E:1040:ASP:OD1	2.43	0.48
1:F:875:GLN:NE2	1:F:878:GLY:HA3	2.28	0.48
1:H:458:HIS:O	1:H:462:ILE:HG13	2.12	0.48
1:A:339:LEU:HA	1:A:342:LEU:HB3	1.95	0.48
1:E:508:ILE:HG13	1:G:499:THR:HA	1.94	0.48
1:E:928:ASP:OD1	1:E:930:ARG:NH2	2.46	0.48
1:F:228:MET:HE1	1:F:230:GLN:HE21	1.77	0.48
1:G:1124:VAL:HG12	1:G:1150:ASN:ND2	2.28	0.48
1:J:330:ILE:HD12	1:J:340:LEU:HD11	1.95	0.48
1:J:471:PRO:HA	1:J:474:GLU:HB2	1.95	0.48
2:2:497:ILE:CD1	2:2:498:TYR:CD2	2.96	0.48
1:A:314:SER:OG	1:A:1198:ASN:ND2	2.46	0.48
1:A:1017:PHE:CE1	1:B:1211:ARG:HG3	2.47	0.48
1:B:1010:ASN:N	1:B:1010:ASN:ND2	2.60	0.48
1:D:372:ASP:OD2	1:D:375:ASN:ND2	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:370:ARG:HH21	1:F:374:ALA:HA	1.76	0.48
1:F:489:ASP:HB3	1:F:826:GLN:NE2	2.26	0.48
1:G:209:ASN:HD21	1:G:266:PRO:HD2	1.78	0.48
1:I:699:ASN:O	1:I:703:THR:HG23	2.13	0.48
1:J:109:THR:HB	1:J:110:PRO:HD2	1.94	0.48
1:J:864:PHE:CE1	1:J:931:ILE:HD12	2.48	0.48
2:2:273:TYR:C	2:2:273:TYR:CD2	2.86	0.48
3:4:607:LEU:HD11	3:4:712:LEU:HD13	1.96	0.48
3:4:655:ARG:CA	3:4:672:PRO:HB2	2.42	0.48
1:B:220:ILE:C	1:B:350:LEU:HD21	2.34	0.48
1:B:668:LEU:HD12	1:B:767:PHE:HE1	1.78	0.48
1:C:196:GLU:N	1:C:254:ASP:OD2	2.46	0.48
1:E:1006:ARG:NH1	1:E:1077:GLU:CD	2.58	0.48
1:F:242:ARG:HH21	1:F:1087:TYR:HH	1.55	0.48
1:H:1020:ILE:HD11	1:H:1058:VAL:HG13	1.95	0.48
1:I:1006:ARG:NH2	1:I:1013:VAL:HG11	2.28	0.48
1:I:1103:TRP:CD1	1:I:1113:PRO:HG2	2.49	0.48
1:J:208:ASP:OD1	1:J:208:ASP:N	2.37	0.48
2:2:290:MET:HG2	2:2:291:TYR:CE1	2.49	0.48
3:4:394:ARG:NH1	3:4:681:ARG:NE	2.61	0.48
3:4:621:TRP:CE2	3:4:702:ASN:C	2.87	0.48
3:4:643:ALA:O	3:4:647:LEU:CB	2.58	0.48
1:B:213:ALA:O	1:B:214:HIS:ND1	2.46	0.48
1:B:876:ASP:HA	1:B:883:ARG:CZ	2.42	0.48
1:F:245:CYS:HB3	1:F:263:LEU:HD12	1.95	0.48
1:G:460:VAL:O	1:G:787:ARG:NH1	2.46	0.48
1:G:514:ILE:HA	1:G:517:LEU:HB2	1.95	0.48
1:G:1004:PHE:HD2	1:G:1011:VAL:CG1	2.26	0.48
1:I:693:TYR:N	1:I:693:TYR:HD1	2.11	0.48
1:J:282:TYR:OH	1:J:289:ASN:ND2	2.45	0.48
1:J:405:LEU:HD13	1:J:956:HIS:HB2	1.95	0.48
3:4:480:THR:CG2	3:4:481:SER:H	2.26	0.48
1:A:694:ASP:OD1	1:A:694:ASP:N	2.39	0.48
1:B:626:LEU:HA	1:B:647:ARG:HH21	1.78	0.48
1:D:202:THR:HG23	1:D:391:CYS:HA	1.96	0.48
1:D:473:VAL:CG1	1:D:541:VAL:HG11	2.44	0.48
1:D:663:GLN:HG2	1:D:850:MET:HE3	1.94	0.48
1:D:928:ASP:OD1	1:D:928:ASP:N	2.45	0.48
1:I:330:ILE:HG21	1:I:347:ARG:HD2	1.95	0.48
2:2:861:THR:HA	2:2:867:SER:HA	1.95	0.48
3:4:412:SER:OG	3:4:413:TYR:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:122:CYS:CB	1:B:135:HIS:CE1	2.97	0.48
1:D:1017:PHE:CE2	1:E:361:SER:HA	2.48	0.48
1:C:695:SER:OG	1:C:744:PRO:O	2.28	0.48
1:F:26:ASP:O	1:F:30:THR:OG1	2.25	0.48
1:G:164:TRP:HE3	1:G:167:ILE:HG21	1.71	0.48
1:G:359:PHE:CE1	1:G:1173:VAL:HG11	2.49	0.48
1:I:164:TRP:HE3	1:I:167:ILE:HG21	1.70	0.48
1:J:394:LEU:HD11	1:J:964:VAL:HG22	1.95	0.48
2:2:309:ARG:HH12	2:2:311:LYS:NZ	2.11	0.48
2:2:346:LEU:O	2:2:347:VAL:C	2.52	0.48
1:A:168:ARG:CB	1:A:168:ARG:NH1	2.73	0.48
1:A:519:GLN:HE21	1:A:519:GLN:N	2.12	0.48
1:A:1044:ASP:OD2	1:A:1073:ARG:NH2	2.37	0.48
1:B:219:LEU:HD23	1:B:351:PRO:O	2.14	0.48
1:B:552:ASP:OD1	1:B:552:ASP:N	2.45	0.48
1:B:1012:ARG:HG3	1:B:1045:TRP:CZ3	2.49	0.48
1:E:891:PHE:CE1	1:F:1214:THR:HG21	2.48	0.48
1:G:593:LEU:HD11	1:G:639:LEU:HD13	1.96	0.48
1:G:595:GLN:CG	1:I:693:TYR:CD2	2.97	0.48
1:G:1016:ARG:NH1	1:H:1213:ALA:O	2.47	0.48
2:2:37:TRP:O	2:2:155:ARG:NH2	2.47	0.48
2:2:181:ARG:NH1	2:2:245:ALA:O	2.46	0.48
2:2:401:ILE:HG23	2:2:773:PHE:HA	1.96	0.48
3:4:488:VAL:HG11	3:4:564:LEU:HD22	1.94	0.48
1:A:554:SER:H	1:C:740:LYS:HD2	1.79	0.48
1:B:73:ASN:CG	1:B:75:ASP:OD1	2.52	0.48
1:C:320:ASP:OD2	1:C:325:THR:OG1	2.31	0.48
1:E:665:SER:HG	1:E:672:SER:HG	1.60	0.48
1:H:463:SER:CB	1:H:926:TYR:HH	2.24	0.48
2:2:80:ARG:CZ	2:2:128:ARG:CZ	2.90	0.48
2:2:386:GLN:NE2	2:2:388:THR:CG2	2.77	0.48
2:2:484:PRO:HB3	2:2:503:ILE:HG23	1.95	0.48
1:A:650:TRP:HB3	1:A:773:ARG:HE	1.79	0.47
1:E:452:ARG:NH2	1:E:948:GLU:OE2	2.47	0.47
1:E:722:ASN:HB3	1:E:725:THR:HG23	1.95	0.47
1:E:883:ARG:NH1	1:E:886:ASP:OD1	2.47	0.47
1:F:219:LEU:CD2	1:F:350:LEU:HD22	2.42	0.47
1:H:686:ARG:NH1	1:H:686:ARG:HG2	2.28	0.47
1:I:155:ASN:OD1	1:I:158:ARG:NH2	2.43	0.47
1:I:587:MET:O	1:I:591:ASN:ND2	2.40	0.47
1:I:1081:TYR:C	1:I:1081:TYR:CD2	2.87	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:287:LEU:HD22	2:2:375:MET:SD	2.54	0.47
2:2:666:ARG:HE	2:2:682:PRO:HB3	1.78	0.47
2:2:1091:GLY:C	2:2:1093:ASP:N	2.68	0.47
1:B:209:ASN:HD22	1:B:242:ARG:HG3	1.79	0.47
1:F:166:ASP:OD1	1:F:166:ASP:N	2.47	0.47
1:F:593:LEU:HB3	1:F:597:GLU:HB2	1.95	0.47
1:G:450:ASP:HB3	1:G:861:ARG:HD3	1.94	0.47
1:H:686:ARG:HG2	1:H:686:ARG:HH11	1.78	0.47
1:H:806:THR:HG22	1:H:807:PHE:N	2.27	0.47
1:H:1103:TRP:CD1	1:H:1113:PRO:HG2	2.50	0.47
1:I:525:TYR:N	1:I:525:TYR:CD1	2.75	0.47
1:I:802:ALA:O	1:J:737:ARG:NH2	2.47	0.47
2:2:19:LEU:O	2:2:885:ILE:HD13	2.14	0.47
2:2:181:ARG:CG	2:2:246:HIS:HD2	2.11	0.47
2:2:474:PHE:HB3	2:2:484:PRO:CG	2.28	0.47
2:2:914:ARG:NH1	2:2:1068:LEU:O	2.46	0.47
3:4:357:THR:O	3:4:358:ILE:C	2.53	0.47
1:B:309:LEU:HD22	1:B:402:TYR:HB2	1.96	0.47
1:D:655:GLU:OE1	1:D:674:ARG:HD3	2.15	0.47
1:D:834:SER:OG	1:D:1211:ARG:O	2.32	0.47
1:F:199:GLY:HA3	1:F:252:LEU:H	1.79	0.47
1:G:152:MET:SD	1:G:152:MET:C	2.93	0.47
1:G:723:ASP:HA	1:G:726:ARG:NH1	2.29	0.47
1:I:697:MET:CE	1:I:697:MET:CA	2.85	0.47
2:2:77:ASN:CG	2:2:83:ARG:HD2	2.34	0.47
2:2:511:LEU:C	2:2:513:ALA:H	2.17	0.47
2:2:1136:ASP:CG	2:2:1182:GLN:HE21	2.15	0.47
3:4:352:MET:HE2	3:4:593:LEU:CD2	2.44	0.47
3:4:613:ALA:HB1	3:4:623:ILE:HD11	1.96	0.47
1:D:1184:LEU:N	1:D:1184:LEU:HD22	2.28	0.47
1:E:647:ARG:O	1:E:773:ARG:NH2	2.48	0.47
1:E:891:PHE:CE1	1:F:1214:THR:CG2	2.97	0.47
1:G:206:LEU:HD12	1:G:243:ILE:HG12	1.96	0.47
1:I:830:ASN:OD1	1:I:830:ASN:N	2.38	0.47
1:J:135:HIS:O	1:J:139:ASP:N	2.47	0.47
1:J:829:THR:OG1	1:J:830:ASN:N	2.46	0.47
1:J:1056:VAL:HG21	1:J:1107:ILE:CG2	2.44	0.47
2:2:4:LEU:O	2:2:8:LEU:HD11	2.14	0.47
2:2:519:VAL:O	3:4:400:TYR:OH	2.33	0.47
3:4:18:ASN:OD1	3:4:18:ASN:N	2.47	0.47
1:A:983:TYR:HE2	1:A:1003:PRO:HD2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:350:LEU:HD12	1:D:351:PRO:HD2	1.95	0.47
1:D:737:ARG:NH1	1:C:795:ASP:OD1	2.44	0.47
1:I:701:ILE:HD13	1:I:823:LEU:CD1	2.44	0.47
1:I:1078:LEU:HG	1:I:1081:TYR:HD1	1.80	0.47
2:2:921:ALA:HB2	2:2:943:LEU:HD22	1.96	0.47
2:2:1078:ILE:HG21	2:2:1207:HIS:CD2	2.49	0.47
3:4:664:GLN:HE21	3:4:664:GLN:CA	2.25	0.47
1:A:166:ASP:OD2	1:A:280:ARG:HD3	2.13	0.47
1:C:576:THR:OG1	1:C:577:SER:N	2.48	0.47
1:C:1103:TRP:CD1	1:C:1113:PRO:HG2	2.49	0.47
1:C:1194:LEU:HD13	1:C:1196:ARG:HD3	1.97	0.47
1:F:208:ASP:OD1	1:F:208:ASP:N	2.37	0.47
1:F:715:VAL:O	1:F:718:THR:HG22	2.14	0.47
1:F:838:GLY:HA3	1:F:1210:VAL:HG23	1.96	0.47
1:F:915:LEU:HD22	1:F:919:LEU:HB2	1.95	0.47
1:H:124:ALA:HB2	1:H:168:ARG:HH21	1.80	0.47
1:J:486:LEU:HD11	1:J:743:THR:HG22	1.95	0.47
1:J:1052:LEU:HD12	1:J:1052:LEU:C	2.32	0.47
1:J:1052:LEU:O	1:J:1056:VAL:CG2	2.62	0.47
2:2:723:LYS:O	2:2:727:THR:HG23	2.14	0.47
3:4:299:GLU:O	3:4:301:ASP:OD1	2.32	0.47
3:4:352:MET:O	3:4:582:GLY:HA3	2.14	0.47
3:4:608:VAL:CG2	3:4:630:GLU:HB2	2.44	0.47
3:4:617:ARG:HH12	3:4:626:ASP:CA	2.27	0.47
1:A:200:LEU:HA	1:A:1196:ARG:HH22	1.79	0.47
1:A:472:LEU:CD1	1:A:472:LEU:H	2.28	0.47
1:A:667:ASN:ND2	1:A:674:ARG:O	2.47	0.47
1:A:983:TYR:CE2	1:A:1003:PRO:HD2	2.49	0.47
1:A:1103:TRP:CD1	1:A:1113:PRO:HG2	2.49	0.47
1:B:123:ASN:O	1:B:168:ARG:NH2	2.47	0.47
1:B:793:ARG:HD3	1:B:795:ASP:O	2.15	0.47
1:D:446:ALA:HB3	1:D:854:ASN:HD22	1.79	0.47
1:D:471:PRO:O	1:D:472:LEU:C	2.50	0.47
1:C:1106:LYS:HB2	1:C:1113:PRO:HG3	1.96	0.47
1:E:200:LEU:HD22	1:E:343:ALA:HB2	1.96	0.47
1:E:490:PRO:CG	1:E:525:TYR:CZ	2.86	0.47
1:E:1011:VAL:CG1	1:E:1046:VAL:HG23	2.45	0.47
1:E:1050:ASP:OD2	1:F:1213:ALA:CA	2.63	0.47
1:G:166:ASP:HB2	1:G:525:TYR:HE2	1.79	0.47
1:H:1031:LEU:HD23	1:H:1041:ILE:HG12	1.97	0.47
1:J:632:ASN:HB3	1:J:635:GLN:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:509:SER:HB3	1:A:512:SER:HB3	1.97	0.47
1:A:580:HIS:C	1:A:582:PRO:HD2	2.34	0.47
1:C:307:SER:O	1:C:310:LYS:NZ	2.48	0.47
1:E:423:CYS:SG	1:E:850:MET:HE1	2.47	0.47
1:E:593:LEU:HD11	1:E:639:LEU:HD13	1.96	0.47
1:E:915:LEU:N	1:E:915:LEU:CD2	2.73	0.47
1:F:117:TYR:HB3	1:F:132:LEU:HG	1.96	0.47
1:G:195:ILE:CG1	1:G:257:ARG:NH1	2.64	0.47
1:H:705:ILE:HG21	1:H:737:ARG:HB2	1.97	0.47
1:I:196:GLU:OE2	1:I:1201:TYR:OH	2.32	0.47
1:I:629:GLN:HA	1:I:640:ARG:HH12	1.79	0.47
1:J:193:LEU:O	1:J:402:TYR:OH	2.31	0.47
1:J:985:VAL:HG12	1:J:1073:ARG:HB3	1.97	0.47
2:2:292:ARG:NH1	2:2:292:ARG:HG2	2.25	0.47
3:4:65:LEU:HD22	3:4:65:LEU:HA	1.64	0.47
1:A:179:LEU:HD23	1:A:182:TYR:CG	2.50	0.47
1:A:517:LEU:HD12	1:A:517:LEU:C	2.35	0.47
1:D:673:ASN:C	1:D:673:ASN:HD22	2.18	0.47
1:D:983:TYR:CD1	1:D:1003:PRO:HG2	2.50	0.47
1:E:795:ASP:OD1	1:F:737:ARG:NH1	2.48	0.47
1:F:314:SER:HB3	1:F:1196:ARG:CD	2.44	0.47
1:F:476:LEU:HB3	1:F:533:ALA:HB1	1.97	0.47
1:H:79:ILE:CG1	1:H:81:ARG:O	2.63	0.47
1:H:848:ASN:O	1:H:852:THR:OG1	2.32	0.47
1:H:923:LEU:CD2	1:H:931:ILE:HG21	2.41	0.47
1:H:1027:LEU:N	1:H:1027:LEU:HD13	2.29	0.47
2:2:462:VAL:HG23	2:2:497:ILE:HD11	1.83	0.47
2:2:871:GLN:NE2	2:2:872:TYR:O	2.46	0.47
2:2:976:GLN:HE21	2:2:977:ILE:N	2.12	0.47
3:4:609:ALA:CB	3:4:657:LEU:HD21	2.39	0.47
3:4:617:ARG:HH12	3:4:626:ASP:HB3	1.77	0.47
1:B:443:PRO:O	1:B:855:GLN:NE2	2.47	0.47
1:C:293:LEU:HG	1:C:888:LEU:HD23	1.96	0.47
1:F:722:ASN:OD1	1:F:725:THR:HG22	2.14	0.47
1:G:429:ASN:N	1:G:429:ASN:ND2	2.60	0.47
1:J:919:LEU:CD2	1:J:920:LEU:HB2	2.44	0.47
2:2:81:VAL:CG1	2:2:388:THR:OG1	2.63	0.47
2:2:625:PHE:CE2	2:2:626:MET:CG	2.90	0.47
1:D:718:THR:OG1	1:D:718:THR:O	2.34	0.46
1:C:689:VAL:O	1:C:689:VAL:HG23	2.14	0.46
1:C:839:LYS:HG2	2:2:749:GLU:OE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1139:SER:OG	1:C:1140:GLU:N	2.47	0.46
1:C:1176:ASN:OD1	1:C:1176:ASN:N	2.45	0.46
1:E:249:TRP:HZ3	1:E:342:LEU:HD21	1.80	0.46
1:E:283:ILE:HD11	1:E:1111:GLY:HA3	1.96	0.46
1:E:607:HIS:O	1:E:610:THR:OG1	2.33	0.46
1:I:393:ALA:HB2	1:I:1192:ASN:HD22	1.76	0.46
1:I:628:PRO:O	1:I:640:ARG:NH1	2.49	0.46
1:J:126:PHE:CD1	1:J:131:ALA:HB1	2.51	0.46
2:2:939:ASP:OD1	2:2:942:SER:OG	2.25	0.46
2:2:1010:SER:OG	2:2:1272:ARG:NH2	2.43	0.46
3:4:655:ARG:CA	3:4:672:PRO:HD2	2.44	0.46
1:A:484:THR:OG1	1:A:746:TYR:OH	2.05	0.46
1:A:583:VAL:HG21	1:A:621:TRP:CD2	2.51	0.46
1:A:738:GLN:HG2	1:I:595:GLN:HG2	1.96	0.46
1:D:79:ILE:HD12	1:D:79:ILE:HA	1.83	0.46
1:D:655:GLU:OE1	1:D:674:ARG:CD	2.64	0.46
1:F:956:HIS:ND1	1:F:959:ARG:NH1	2.63	0.46
1:H:313:LYS:O	1:H:1196:ARG:NH1	2.48	0.46
1:H:694:ASP:OD1	1:H:695:SER:N	2.48	0.46
1:J:864:PHE:CE1	1:J:931:ILE:CD1	2.97	0.46
2:2:489:SER:O	2:2:490:LYS:C	2.54	0.46
2:2:883:PRO:HG3	2:2:897:CYS:HA	1.97	0.46
2:2:987:TYR:HB3	2:2:992:LYS:HB2	1.97	0.46
2:2:1180:LEU:HD23	2:2:1180:LEU:O	2.16	0.46
2:2:1191:ILE:HD12	2:2:1195:TRP:HE1	1.80	0.46
3:4:14:TRP:CE3	3:4:46:ARG:NE	2.83	0.46
3:4:472:SER:HB3	3:4:484:ALA:HB1	1.97	0.46
1:A:320:ASP:OD2	1:A:325:THR:OG1	2.31	0.46
1:B:439:THR:HB	1:B:1199:PHE:HD1	1.79	0.46
1:B:802:ALA:HB1	1:C:436:LEU:HD21	1.96	0.46
1:C:311:ILE:HG23	1:C:403:ILE:HD11	1.97	0.46
1:F:597:GLU:HG3	1:F:636:ALA:HA	1.97	0.46
1:F:636:ALA:HB1	1:F:639:LEU:HB2	1.97	0.46
1:F:663:GLN:NE2	1:F:854:ASN:OD1	2.48	0.46
1:G:151:PRO:HG2	2:2:1259:SER:HB2	1.96	0.46
1:H:459:LEU:HD23	1:H:785:VAL:CG2	2.45	0.46
1:H:971:GLU:OE2	1:H:1168:ARG:NH2	2.48	0.46
1:I:466:THR:CA	1:I:809:ALA:HB2	2.46	0.46
1:I:684:LEU:HD12	1:I:685:PRO:HD2	1.96	0.46
1:I:714:SER:O	1:I:718:THR:OG1	2.30	0.46
1:I:978:ALA:HB3	1:I:1081:TYR:HE2	1.77	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:648:SER:OG	2:2:649:GLY:N	2.47	0.46
2:2:667:TYR:HB2	2:2:681:PHE:HB3	1.97	0.46
3:4:289:VAL:HG13	3:4:316:SER:HA	1.97	0.46
1:A:1006:ARG:HH11	1:A:1077:GLU:CD	2.19	0.46
1:B:985:VAL:HG12	1:B:1073:ARG:HB3	1.96	0.46
1:D:252:LEU:HD11	1:D:335:GLY:CA	2.45	0.46
1:D:787:ARG:HB3	1:D:931:ILE:HG22	1.97	0.46
1:C:687:LEU:HD12	1:C:687:LEU:N	2.29	0.46
1:C:861:ARG:NH1	1:C:954:PRO:O	2.49	0.46
1:G:758:LEU:O	1:G:762:THR:OG1	2.33	0.46
1:I:226:MET:CB	1:I:233:PRO:HB3	2.45	0.46
1:I:283:ILE:HG12	1:I:287:GLN:HG3	1.97	0.46
1:I:421:ASN:HD21	1:I:430:SER:H	1.64	0.46
1:I:479:LEU:HB3	1:I:758:LEU:HD13	1.96	0.46
1:I:697:MET:CG	1:I:744:PRO:CG	2.94	0.46
1:I:984:LEU:HB2	1:I:1074:VAL:HG23	1.97	0.46
1:I:1068:LYS:NZ	1:J:110:PRO:O	2.47	0.46
1:J:1102:GLU:OE2	1:J:1106:LYS:NZ	2.40	0.46
2:2:30:PHE:HE1	2:2:853:CYS:HB2	1.67	0.46
2:2:265:ALA:HA	2:2:274:THR:HG21	1.97	0.46
2:2:509:MET:SD	2:2:509:MET:C	2.94	0.46
2:2:1071:HIS:O	2:2:1254:THR:OG1	2.32	0.46
3:4:61:LEU:CD2	3:4:221:LEU:CD1	2.92	0.46
3:4:652:LEU:CD1	3:4:652:LEU:N	2.79	0.46
1:A:469:ALA:CB	1:A:541:VAL:HB	2.46	0.46
1:A:1040:ASP:OD1	1:A:1040:ASP:N	2.42	0.46
1:C:646:ILE:HG22	1:C:774:LEU:HD21	1.97	0.46
1:C:800:ILE:HG13	1:C:945:VAL:HG21	1.97	0.46
1:C:979:ARG:N	1:C:1142:ASN:OD1	2.48	0.46
1:E:679:TRP:CZ3	1:E:697:MET:HA	2.51	0.46
1:E:895:SER:OG	1:E:927:GLY:O	2.34	0.46
1:H:257:ARG:HH11	1:H:309:LEU:HB2	1.81	0.46
1:H:1093:SER:HB3	1:H:1130:ALA:HB1	1.96	0.46
1:J:65:ASP:OD1	1:J:65:ASP:N	2.45	0.46
1:J:983:TYR:CZ	1:J:1003:PRO:HD2	2.51	0.46
2:2:78:GLN:HA	2:2:78:GLN:HE21	1.78	0.46
3:4:15:THR:O	3:4:16:ASP:CB	2.62	0.46
3:4:48:GLN:HE21	3:4:83:LYS:HG3	1.80	0.46
3:4:650:ARG:NH1	3:4:650:ARG:CB	2.73	0.46
1:A:1189:THR:HG21	1:A:1192:ASN:HD21	1.80	0.46
1:D:448:SER:OG	1:D:665:SER:O	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:198:THR:O	1:F:331:ARG:NH2	2.49	0.46
1:F:784:LEU:HD11	1:F:802:ALA:HB2	1.97	0.46
1:H:155:ASN:OD1	1:H:848:ASN:ND2	2.48	0.46
1:H:829:THR:OG1	1:H:830:ASN:N	2.49	0.46
1:H:1049:SER:HB2	1:H:1078:LEU:HD13	1.97	0.46
2:2:247:MET:HB3	2:2:839:LEU:HD12	1.96	0.46
2:2:1085:ASP:N	2:2:1085:ASP:OD1	2.48	0.46
3:4:297:GLU:CG	3:4:306:ILE:CD1	2.94	0.46
1:A:152:MET:HB3	3:4:470:VAL:HG11	1.98	0.46
1:E:249:TRP:CZ3	1:E:342:LEU:CD2	2.96	0.46
1:G:555:GLN:HE22	1:I:492:VAL:HG13	1.81	0.46
1:H:606:MET:HG2	1:H:620:VAL:CG1	2.46	0.46
1:H:869:SER:OG	1:H:869:SER:O	2.32	0.46
1:H:1019:THR:HA	1:I:351:PRO:O	2.15	0.46
1:I:320:ASP:OD2	1:I:325:THR:OG1	2.31	0.46
1:I:700:TRP:O	1:I:704:THR:HG22	2.16	0.46
1:I:727:ARG:CZ	1:I:727:ARG:HB2	2.44	0.46
1:J:283:ILE:HG12	1:J:287:GLN:HG3	1.96	0.46
1:J:322:THR:CG2	1:J:323:THR:H	2.23	0.46
1:J:324:ILE:HG23	1:J:325:THR:CG2	2.26	0.46
1:J:864:PHE:CE1	1:J:934:LEU:HD12	2.33	0.46
2:2:48:LEU:HA	2:2:51:HIS:HD2	1.80	0.46
2:2:820:TRP:CD2	2:2:858:GLY:HA3	2.51	0.46
1:A:607:HIS:N	1:A:610:THR:HG1	2.13	0.46
1:A:876:ASP:HB2	1:B:686:ARG:HH22	1.79	0.46
1:A:979:ARG:N	1:A:1142:ASN:OD1	2.43	0.46
1:D:601:ILE:HD12	1:D:608:GLN:HA	1.97	0.46
1:D:934:LEU:HD12	1:D:934:LEU:HA	1.74	0.46
1:C:1091:GLN:NE2	1:C:1125:TYR:OH	2.49	0.46
1:E:208:ASP:N	1:E:208:ASP:OD1	2.48	0.46
1:E:356:ASN:ND2	1:E:1151:ALA:HB1	2.31	0.46
1:F:681:ASN:HB3	1:F:752:PRO:HG2	1.97	0.46
1:H:632:ASN:HB2	1:H:635:GLN:HB3	1.97	0.46
1:I:460:VAL:CG1	1:I:787:ARG:CG	2.90	0.46
1:I:461:ASN:HD22	1:I:918:ALA:HB1	1.80	0.46
1:I:873:GLN:NE2	1:I:962:GLN:OE1	2.44	0.46
2:2:395:TYR:OH	2:2:524:ARG:NH1	2.41	0.46
3:4:362:ARG:H	3:4:362:ARG:CD	2.29	0.46
1:A:230:GLN:HE21	1:A:230:GLN:HB2	1.60	0.46
1:A:784:LEU:HB2	1:A:804:HIS:HB3	1.98	0.46
1:B:457:MET:HE2	1:B:920:LEU:HD21	1.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:626:LEU:HD11	1:B:776:GLN:CD	2.32	0.46
1:D:26:ASP:N	1:D:26:ASP:OD1	2.49	0.46
1:D:136:LEU:HA	1:D:140:HIS:HD2	1.80	0.46
1:D:1182:ASN:HB3	1:D:1184:LEU:HD23	1.97	0.46
1:C:460:VAL:HG11	1:C:923:LEU:HD23	1.96	0.46
1:E:847:SER:C	1:E:849:ALA:H	2.19	0.46
1:F:560:LEU:HD12	1:F:564:TRP:CD1	2.48	0.46
1:H:1053:GLN:NE2	1:H:1112:ILE:HD11	2.31	0.46
1:I:151:PRO:O	1:I:155:ASN:N	2.49	0.46
1:J:692:THR:O	1:J:692:THR:OG1	2.34	0.46
2:2:175:THR:OG1	2:2:1097:ASP:OD1	2.32	0.46
3:4:284:PHE:CZ	3:4:684:LEU:HD22	2.50	0.46
3:4:350:LEU:HA	3:4:353:SER:OG	2.16	0.46
3:4:512:THR:O	3:4:512:THR:OG1	2.33	0.46
1:A:160:PHE:CD2	1:A:160:PHE:C	2.89	0.46
1:B:367:ARG:NH1	1:B:1171:GLY:O	2.48	0.46
1:D:494:THR:O	1:D:498:THR:OG1	2.28	0.46
1:D:1107:ILE:HG12	1:D:1113:PRO:HD2	1.98	0.46
1:C:656:PHE:HB3	1:C:681:ASN:HD21	1.81	0.46
1:G:204:PHE:HE1	1:G:975:PHE:HE1	1.64	0.46
1:G:354:THR:CG2	1:G:1153:SER:N	2.79	0.46
1:G:371:LEU:HD23	1:G:386:GLU:HG2	1.98	0.46
1:G:401:THR:HG21	1:G:960:ALA:HB2	1.98	0.46
1:G:617:HIS:HD2	1:H:715:VAL:HG13	1.81	0.46
1:G:788:VAL:HG23	1:G:931:ILE:HB	1.98	0.46
1:H:686:ARG:O	1:H:688:THR:HG23	2.16	0.46
1:J:331:ARG:NH2	1:J:1196:ARG:HH21	2.13	0.46
1:J:910:LYS:HE3	1:J:919:LEU:H	1.80	0.46
2:2:92:ASP:OD1	2:2:269:HIS:CD2	2.70	0.46
2:2:986:PHE:N	2:2:986:PHE:HD2	2.13	0.46
1:B:374:ALA:HB3	1:B:377:ILE:HD11	1.98	0.45
1:C:196:GLU:OE2	1:C:313:LYS:NZ	2.45	0.45
1:C:493:LEU:CD2	1:C:518:LEU:HD11	2.46	0.45
1:C:836:HIS:CE1	2:2:748:HIS:CE1	3.03	0.45
1:E:656:PHE:HD1	1:E:752:PRO:CB	2.29	0.45
1:E:690:ALA:O	1:E:692:THR:HG23	2.17	0.45
1:F:461:ASN:OD1	1:F:461:ASN:N	2.50	0.45
1:G:167:ILE:CA	1:G:525:TYR:CD2	2.98	0.45
1:G:663:GLN:HG3	1:G:854:ASN:HD21	1.81	0.45
1:I:451:LEU:HD22	1:I:666:ALA:HB2	1.97	0.45
1:I:1040:ASP:OD1	1:I:1040:ASP:N	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:321:VAL:HG23	1:J:321:VAL:O	2.16	0.45
3:4:10:ALA:HA	3:4:216:ASP:HB3	1.97	0.45
3:4:315:HIS:N	3:4:355:ASP:O	2.43	0.45
3:4:633:CYS:HG	3:4:657:LEU:CD2	2.08	0.45
1:A:758:LEU:O	1:A:762:THR:OG1	2.33	0.45
1:A:1004:PHE:O	1:A:1004:PHE:CD1	2.69	0.45
1:A:1068:LYS:NZ	1:B:111:ILE:O	2.49	0.45
1:D:554:SER:HB3	1:E:835:HIS:HA	1.97	0.45
1:D:1095:ASP:HA	1:D:1133:VAL:HG23	1.98	0.45
1:G:377:ILE:HD11	1:G:436:LEU:HD11	1.98	0.45
1:H:929:PRO:O	1:H:931:ILE:HG23	2.16	0.45
1:I:283:ILE:HD11	1:I:1111:GLY:HA3	1.99	0.45
1:I:427:LEU:HD23	1:I:427:LEU:HA	1.67	0.45
1:I:679:TRP:CE2	1:I:697:MET:CE	2.98	0.45
1:I:1059:PHE:HA	1:I:1063:VAL:HG12	1.98	0.45
2:2:30:PHE:CE1	2:2:853:CYS:CB	2.81	0.45
2:2:338:LEU:HD11	2:2:351:HIS:CE1	2.50	0.45
2:2:490:LYS:H	2:2:969:ALA:HB2	1.81	0.45
2:2:667:TYR:N	2:2:681:PHE:O	2.49	0.45
2:2:839:LEU:HD13	2:2:839:LEU:HA	1.73	0.45
3:4:371:HIS:CD2	3:4:371:HIS:H	2.33	0.45
1:A:158:ARG:HD3	1:A:158:ARG:HA	1.75	0.45
1:B:213:ALA:HB3	1:B:215:LEU:CD2	2.40	0.45
1:B:676:VAL:O	1:B:768:GLN:NE2	2.43	0.45
1:D:284:ASP:OD1	1:D:284:ASP:N	2.35	0.45
1:C:880:LEU:HD12	1:C:880:LEU:N	2.32	0.45
1:G:424:ALA:HB1	1:G:428:LEU:HD11	1.97	0.45
1:I:462:ILE:HD12	1:I:468:ALA:HB2	1.96	0.45
2:2:386:GLN:HE21	2:2:388:THR:CG2	2.29	0.45
2:2:1195:TRP:HB2	2:2:1198:LEU:HD12	1.99	0.45
3:4:62:LEU:HB2	3:4:224:LEU:CG	2.46	0.45
3:4:76:CYS:HB3	3:4:80:PRO:HD2	1.99	0.45
3:4:313:THR:HG23	3:4:357:THR:O	2.16	0.45
3:4:427:ASP:OD1	3:4:427:ASP:N	2.37	0.45
3:4:629:LEU:HD23	3:4:693:TRP:CZ3	2.51	0.45
3:4:643:ALA:O	3:4:647:LEU:N	2.50	0.45
3:4:652:LEU:N	3:4:652:LEU:HD12	2.31	0.45
1:B:213:ALA:O	1:B:215:LEU:HD22	2.16	0.45
1:B:543:THR:HG23	1:B:577:SER:H	1.80	0.45
1:B:663:GLN:NE2	1:B:854:ASN:OD1	2.50	0.45
1:D:670:ILE:HB	1:D:671:PRO:CD	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:920:LEU:HG	1:D:923:LEU:HD22	1.98	0.45
1:C:667:ASN:ND2	1:C:674:ARG:O	2.49	0.45
1:E:802:ALA:O	1:F:737:ARG:NH2	2.49	0.45
1:F:461:ASN:ND2	1:F:918:ALA:HB3	2.30	0.45
1:H:215:LEU:HA	1:H:215:LEU:HD13	1.65	0.45
1:H:773:ARG:HB2	1:H:774:LEU:HD12	1.97	0.45
1:J:457:MET:SD	1:J:920:LEU:CD1	3.05	0.45
1:J:879:PHE:HB2	1:J:932:ALA:HB2	1.97	0.45
3:4:57:THR:HG23	3:4:60:GLU:CA	2.45	0.45
3:4:621:TRP:NE1	3:4:702:ASN:N	2.41	0.45
1:A:355:LYS:HB3	1:A:1151:ALA:HA	1.98	0.45
1:D:1019:THR:CG2	1:E:352:THR:C	2.85	0.45
1:D:1077:GLU:C	1:D:1078:LEU:HD12	2.36	0.45
1:F:241:ASN:ND2	1:F:1148:SER:OG	2.41	0.45
1:F:556:SER:O	1:F:557:ILE:CG2	2.57	0.45
1:F:761:VAL:HG21	1:F:844:LEU:HD13	1.97	0.45
1:G:166:ASP:N	1:G:166:ASP:OD1	2.49	0.45
1:H:117:TYR:CE1	1:H:118:VAL:HG22	2.48	0.45
1:J:985:VAL:HG22	1:J:1137:PHE:HE2	1.82	0.45
2:2:977:ILE:HG12	2:2:981:LEU:HD22	1.98	0.45
2:2:1116:TYR:HE1	2:2:1180:LEU:HD22	1.81	0.45
1:A:287:GLN:NE2	1:A:1106:LYS:O	2.49	0.45
1:A:835:HIS:HB2	1:J:555:GLN:HA	1.97	0.45
1:B:315:SER:OG	1:B:316:THR:N	2.39	0.45
1:D:220:ILE:HB	1:D:221:GLY:H	1.56	0.45
1:D:277:VAL:HG22	1:D:299:LEU:HD22	1.98	0.45
1:D:462:ILE:HG13	1:D:462:ILE:H	1.54	0.45
1:C:446:ALA:HB1	1:C:450:ASP:HB2	1.98	0.45
1:C:517:LEU:HD11	1:C:568:PHE:CD2	2.51	0.45
1:C:535:TRP:O	1:C:768:GLN:NE2	2.40	0.45
1:F:392:ASP:OD1	1:F:392:ASP:N	2.49	0.45
1:F:555:GLN:O	1:F:556:SER:HB3	2.17	0.45
1:G:354:THR:CG2	1:G:1153:SER:O	2.64	0.45
1:G:724:LEU:HD12	1:G:724:LEU:C	2.31	0.45
1:G:919:LEU:HD13	1:G:920:LEU:HB2	1.99	0.45
1:I:426:ASN:C	1:I:429:ASN:HD21	2.19	0.45
1:I:460:VAL:HG22	1:I:785:VAL:CG1	2.47	0.45
1:I:616:SER:HB3	1:J:723:ASP:HB2	1.98	0.45
1:I:722:ASN:N	1:I:722:ASN:ND2	2.60	0.45
1:J:1048:PRO:HA	1:J:1077:GLU:HB2	1.98	0.45
2:2:719:SER:HB2	2:2:722:LEU:CB	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:5:VAL:HG11	3:4:200:SER:H	1.82	0.45
1:A:204:PHE:CE2	1:A:1188:ILE:HD13	2.51	0.45
1:A:422:GLU:CB	1:A:660:SER:HB2	2.44	0.45
1:A:476:LEU:CD2	1:A:533:ALA:HA	2.47	0.45
1:D:709:ILE:HG21	1:C:801:ARG:HB3	1.98	0.45
1:E:708:PHE:O	1:E:711:VAL:N	2.50	0.45
1:F:20:ASN:OD1	1:F:20:ASN:N	2.50	0.45
1:G:151:PRO:HG3	2:2:1259:SER:CB	2.47	0.45
1:G:668:LEU:HD12	1:G:767:PHE:HE1	1.82	0.45
1:I:330:ILE:HD12	1:I:340:LEU:HD11	1.98	0.45
1:J:195:ILE:CD1	1:J:255:GLU:O	2.64	0.45
1:J:494:THR:O	1:J:498:THR:OG1	2.26	0.45
2:2:291:TYR:N	2:2:291:TYR:CD1	2.80	0.45
1:A:248:ASN:CG	1:A:260:GLU:OE2	2.55	0.45
1:A:378:GLY:HA3	1:J:797:ALA:HB1	1.99	0.45
1:A:534:SER:O	1:A:534:SER:OG	2.33	0.45
1:D:158:ARG:HG3	1:D:1203:THR:HG21	1.99	0.45
1:D:861:ARG:NH1	1:D:862:GLU:OE2	2.50	0.45
1:E:1147:PHE:CE1	1:E:1164:VAL:HG13	2.52	0.45
1:F:564:TRP:NE1	1:F:729:MET:SD	2.89	0.45
1:H:1020:ILE:HG21	1:H:1062:TYR:CD1	2.52	0.45
1:J:317:PHE:HA	1:J:331:ARG:HA	1.99	0.45
2:2:27:ASP:N	2:2:27:ASP:OD1	2.48	0.45
2:2:574:ILE:HB	2:2:575:PRO:HD3	1.99	0.45
2:2:576:LEU:C	2:2:576:LEU:CD2	2.85	0.45
2:2:899:MET:HB2	2:2:1243:THR:HG23	1.97	0.45
1:B:595:GLN:CD	1:C:686:ARG:O	2.56	0.45
1:B:1040:ASP:OD1	1:B:1040:ASP:N	2.50	0.45
1:D:1019:THR:CG2	1:E:352:THR:CA	2.95	0.45
1:C:689:VAL:HG23	1:C:742:MET:CE	2.46	0.45
1:E:426:ASN:OD1	1:E:426:ASN:N	2.50	0.45
1:F:717:MET:O	1:F:721:VAL:HG13	2.17	0.45
1:H:465:ASN:OD1	1:H:468:ALA:HB3	2.17	0.45
1:I:317:PHE:HB2	1:I:373:ARG:HH22	1.82	0.45
1:I:723:ASP:HA	1:I:726:ARG:HH12	1.82	0.45
1:J:195:ILE:HD11	1:J:256:GLY:HA2	1.99	0.45
1:J:312:ASN:HA	1:J:1196:ARG:HH11	1.82	0.45
1:J:427:LEU:HD13	1:J:837:TYR:HB3	1.99	0.45
1:J:1033:ASP:OD2	1:J:1039:ARG:NH1	2.50	0.45
1:J:1081:TYR:CD1	1:J:1081:TYR:N	2.84	0.45
2:2:556:ASN:HD21	2:2:699:ALA:HA	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:1174:SER:O	2:2:1178:ALA:HB2	2.17	0.45
3:4:250:ASP:HB2	3:4:257:TRP:HH2	1.82	0.45
3:4:467:ASP:O	3:4:471:ALA:HB3	2.17	0.45
1:A:280:ARG:CB	1:A:280:ARG:HH11	2.29	0.45
1:B:617:HIS:CD2	1:B:619:GLY:H	2.36	0.45
1:B:880:LEU:C	1:B:880:LEU:CD1	2.85	0.45
1:D:530:LYS:HG2	1:D:811:LEU:HD21	1.99	0.45
1:F:109:THR:CB	1:F:110:PRO:HD2	2.47	0.45
1:F:209:ASN:HD21	1:F:267:THR:HG23	1.82	0.45
1:F:317:PHE:HA	1:F:331:ARG:HA	1.99	0.45
1:G:883:ARG:NH1	1:G:886:ASP:OD1	2.50	0.45
1:H:115:SER:O	1:H:115:SER:OG	2.34	0.45
1:I:200:LEU:N	1:I:200:LEU:CD2	2.72	0.45
1:I:1081:TYR:CD2	1:I:1081:TYR:O	2.69	0.45
1:J:705:ILE:HG21	1:J:737:ARG:HB2	1.99	0.45
1:J:919:LEU:CD2	1:J:920:LEU:HB3	2.46	0.45
2:2:32:GLN:O	2:2:36:THR:OG1	2.27	0.45
2:2:338:LEU:HD11	2:2:351:HIS:HE1	1.82	0.45
2:2:493:LYS:H	2:2:493:LYS:HG3	1.60	0.45
3:4:617:ARG:NH1	3:4:626:ASP:CB	2.79	0.45
1:A:174:VAL:HG22	1:A:900:GLU:HA	1.98	0.44
1:A:186:ALA:HB1	1:A:763:VAL:HG11	1.99	0.44
1:D:201:CYS:SG	1:D:312:ASN:ND2	2.90	0.44
1:C:652:GLN:HE21	1:C:652:GLN:HB2	1.51	0.44
1:E:658:TYR:CD1	1:E:675:MET:SD	3.10	0.44
1:E:784:LEU:HB3	1:E:804:HIS:HB2	1.99	0.44
1:E:1004:PHE:CE2	1:E:1075:LEU:HB2	2.52	0.44
1:G:161:LEU:C	1:G:161:LEU:CD1	2.85	0.44
1:H:655:GLU:HG2	1:H:676:VAL:HG22	1.99	0.44
1:H:864:PHE:HE1	1:H:931:ILE:CD1	2.29	0.44
1:H:1100:LEU:HD11	1:H:1136:ALA:HB2	1.99	0.44
1:H:1150:ASN:HB2	1:H:1156:THR:HG22	2.00	0.44
1:I:432:ILE:HD12	1:I:432:ILE:C	2.38	0.44
2:2:105:THR:OG1	2:2:115:PHE:HE1	2.00	0.44
2:2:264:ARG:CB	2:2:346:LEU:HD11	2.47	0.44
2:2:510:LEU:CD2	2:2:511:LEU:N	2.78	0.44
2:2:719:SER:OG	2:2:761:GLU:OE1	2.35	0.44
3:4:61:LEU:CD2	3:4:61:LEU:C	2.85	0.44
3:4:62:LEU:CD2	3:4:224:LEU:CD1	2.94	0.44
1:A:237:GLU:HA	1:A:1151:ALA:HB3	2.00	0.44
1:A:254:ASP:OD2	3:4:236:ARG:NH1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:287:GLN:HE22	1:B:1108:ASN:HD21	1.65	0.44
1:D:859:ILE:HG21	1:D:915:LEU:HD11	1.99	0.44
1:C:210:ILE:O	1:C:239:ALA:N	2.48	0.44
1:E:241:ASN:HD21	1:E:1151:ALA:CB	2.30	0.44
1:E:243:ILE:CG1	1:E:1147:PHE:HB2	2.46	0.44
1:H:331:ARG:HH11	1:H:1196:ARG:NE	1.86	0.44
1:I:246:MET:H	1:I:246:MET:HG2	1.55	0.44
1:I:465:ASN:HB3	1:J:500:ILE:C	2.34	0.44
1:I:697:MET:HG3	1:I:744:PRO:HG3	1.98	0.44
1:J:209:ASN:OD1	1:J:242:ARG:HG3	2.17	0.44
1:J:868:ARG:HD2	1:J:879:PHE:CE2	2.52	0.44
2:2:285:LEU:HA	2:2:285:LEU:HD23	1.59	0.44
1:A:536:ALA:HB1	1:A:766:PRO:HB3	1.99	0.44
1:C:311:ILE:HD11	1:C:406:LEU:HD22	1.98	0.44
1:C:1024:PRO:HB2	1:C:1025:ASN:H	1.56	0.44
1:E:743:THR:HG21	1:E:822:MET:HA	1.99	0.44
1:E:1013:VAL:O	1:E:1034:ASP:N	2.51	0.44
1:G:930:ARG:NE	1:H:689:VAL:CB	2.77	0.44
1:G:1004:PHE:CD2	1:G:1044:ASP:HB3	2.51	0.44
1:G:1103:TRP:CD1	1:G:1113:PRO:HG2	2.52	0.44
1:H:235:LEU:HB2	1:H:356:ASN:HD21	1.81	0.44
1:H:650:TRP:HB3	1:H:773:ARG:HE	1.82	0.44
1:I:460:VAL:CG1	1:I:787:ARG:CZ	2.95	0.44
1:I:697:MET:CB	1:I:744:PRO:HA	2.47	0.44
1:J:331:ARG:HH22	1:J:1196:ARG:HH21	1.66	0.44
1:J:464:SER:OG	1:J:464:SER:O	2.36	0.44
2:2:116:LEU:HB2	2:2:139:TYR:CE2	2.51	0.44
3:4:335:LEU:HB3	3:4:378:VAL:O	2.16	0.44
3:4:664:GLN:NE2	3:4:664:GLN:CA	2.73	0.44
1:B:248:ASN:HB3	1:B:251:SER:HB2	2.00	0.44
1:B:294:ARG:HH11	1:B:886:ASP:HA	1.82	0.44
1:D:331:ARG:NE	1:D:389:GLU:OE1	2.48	0.44
1:C:193:LEU:HD11	1:C:859:ILE:HD11	2.00	0.44
1:F:791:ALA:HB3	1:F:792:GLN:NE2	2.31	0.44
1:G:150:THR:HG23	1:G:153:ILE:HB	2.00	0.44
1:G:161:LEU:HD22	1:G:161:LEU:HA	1.83	0.44
1:G:1086:HIS:ND1	1:G:1118:CYS:SG	2.79	0.44
1:H:135:HIS:O	1:H:140:HIS:N	2.48	0.44
1:H:314:SER:OG	1:H:1198:ASN:ND2	2.47	0.44
1:I:209:ASN:ND2	1:I:242:ARG:HG3	2.32	0.44
1:I:331:ARG:HH22	1:I:1196:ARG:HH11	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:653:PRO:HD3	1:I:773:ARG:HB2	1.97	0.44
1:I:707:PHE:CD2	1:I:707:PHE:O	2.70	0.44
1:I:928:ASP:HB2	1:J:740:LYS:HB2	1.99	0.44
1:I:1090:PRO:HD2	1:I:1123:GLN:HE21	1.81	0.44
1:J:479:LEU:HB3	1:J:758:LEU:HD11	2.00	0.44
2:2:302:ALA:HB2	2:2:320:THR:HG23	1.99	0.44
2:2:674:SER:HB2	2:2:677:ASN:HB2	1.99	0.44
2:2:698:THR:HG23	2:2:739:GLY:H	1.83	0.44
2:2:991:LEU:O	2:2:991:LEU:HD22	2.17	0.44
1:A:712:VAL:HA	1:A:717:MET:HG2	1.99	0.44
1:B:598:PRO:O	1:B:635:GLN:NE2	2.46	0.44
1:C:494:THR:HG23	1:C:515:LEU:HD21	1.99	0.44
1:C:856:ARG:O	1:C:860:THR:OG1	2.34	0.44
1:E:486:LEU:HA	1:E:827:THR:HG22	1.99	0.44
1:G:175:SER:O	1:G:179:LEU:N	2.51	0.44
1:H:683:PRO:O	1:H:685:PRO:HD3	2.17	0.44
1:I:1149:THR:HG21	1:I:1161:ASN:HA	2.00	0.44
1:I:1170:PRO:HD2	1:I:1189:THR:HG23	1.99	0.44
1:J:39:PRO:HG2	1:J:72:VAL:HG13	2.00	0.44
1:J:1040:ASP:OD1	1:J:1040:ASP:N	2.49	0.44
2:2:386:GLN:HG2	2:2:388:THR:CG2	2.47	0.44
3:4:214:ASP:N	3:4:214:ASP:OD1	2.50	0.44
1:A:282:TYR:OH	1:A:1110:ALA:HA	2.17	0.44
1:A:460:VAL:HG13	1:A:787:ARG:HH11	1.83	0.44
1:A:622:PRO:HA	1:A:623:PRO:HD3	1.91	0.44
1:A:930:ARG:H	1:A:930:ARG:HG3	1.49	0.44
1:A:1182:ASN:O	1:A:1184:LEU:N	2.51	0.44
1:B:118:VAL:O	1:B:118:VAL:HG12	2.17	0.44
1:B:403:ILE:HD11	1:B:1199:PHE:HE2	1.83	0.44
1:D:582:PRO:CB	1:D:774:LEU:HD11	2.44	0.44
1:C:519:GLN:HA	1:C:520:PRO:HD3	1.80	0.44
1:F:277:VAL:HG22	1:F:299:LEU:HD22	2.00	0.44
1:F:1093:SER:HB3	1:F:1130:ALA:HB1	2.00	0.44
1:G:607:HIS:O	1:G:610:THR:OG1	2.34	0.44
1:H:193:LEU:O	1:H:402:TYR:OH	2.30	0.44
1:H:463:SER:O	1:H:464:SER:CB	2.63	0.44
1:I:198:THR:OG1	1:I:313:LYS:HE2	2.17	0.44
1:J:1081:TYR:CD2	1:J:1081:TYR:O	2.70	0.44
2:2:613:HIS:HB2	2:2:654:VAL:HG11	1.99	0.44
2:2:823:LEU:HD22	2:2:826:ILE:HD12	2.00	0.44
2:2:1055:ARG:NE	2:2:1055:ARG:CA	2.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:1062:ARG:HA	2:2:1062:ARG:HD2	1.63	0.44
3:4:524:ASP:OD2	3:4:538:ARG:NH1	2.51	0.44
3:4:651:ARG:CG	3:4:713:GLU:HG2	2.47	0.44
1:A:923:LEU:C	1:A:925:LEU:H	2.21	0.44
1:D:158:ARG:HG3	1:D:1203:THR:HG23	1.98	0.44
1:D:878:GLY:O	1:D:879:PHE:C	2.55	0.44
1:D:1184:LEU:CD2	1:D:1184:LEU:N	2.81	0.44
1:C:312:ASN:HB3	1:C:1196:ARG:HD2	1.99	0.44
1:E:534:SER:O	1:E:536:ALA:N	2.51	0.44
1:E:656:PHE:CD1	1:E:752:PRO:HA	2.53	0.44
1:E:714:SER:OG	1:E:715:VAL:N	2.51	0.44
1:F:1053:GLN:HB2	1:G:323:THR:HG21	2.00	0.44
1:G:198:THR:HG23	1:G:315:SER:HB2	1.98	0.44
1:H:759:ALA:HB1	1:H:766:PRO:HG3	1.99	0.44
1:H:957:ILE:O	1:H:961:LEU:N	2.49	0.44
1:J:393:ALA:HB2	1:J:1189:THR:HB	2.00	0.44
1:J:425:ASN:HD22	1:J:425:ASN:HA	1.51	0.44
1:J:441:LEU:HG	1:J:443:PRO:HD3	1.99	0.44
1:J:650:TRP:HD1	1:J:773:ARG:HG3	1.82	0.44
2:2:845:LEU:C	2:2:845:LEU:CD2	2.86	0.44
2:2:910:LEU:HD23	2:2:1068:LEU:HD11	2.00	0.44
3:4:67:THR:O	3:4:68:ILE:HB	2.17	0.44
3:4:318:PRO:HG3	3:4:352:MET:CE	2.48	0.44
3:4:348:LEU:HG	3:4:421:LEU:HD12	2.00	0.44
3:4:562:GLN:O	3:4:566:ASP:N	2.50	0.44
1:A:406:LEU:HD12	1:A:409:MET:HE3	2.00	0.44
1:D:441:LEU:HD23	1:D:1201:TYR:HE1	1.82	0.44
1:D:535:TRP:O	1:D:768:GLN:NE2	2.49	0.44
1:D:676:VAL:O	1:D:768:GLN:NE2	2.51	0.44
1:D:733:MET:HE2	1:D:733:MET:HB2	1.79	0.44
1:E:429:ASN:OD1	1:E:429:ASN:N	2.39	0.44
1:E:502:GLU:OE2	1:E:509:SER:OG	2.36	0.44
1:E:697:MET:HE2	1:E:747:ILE:CB	2.47	0.44
1:F:561:PRO:O	1:F:564:TRP:HB2	2.17	0.44
1:F:567:LEU:HD21	1:F:705:ILE:HD13	1.99	0.44
1:F:1170:PRO:HD2	1:F:1189:THR:HG23	2.00	0.44
1:H:376:LEU:CD1	1:H:438:PRO:HB3	2.48	0.44
1:I:459:LEU:HD23	1:I:459:LEU:HA	1.84	0.44
1:I:1045:TRP:HB2	1:I:1074:VAL:HG12	2.00	0.44
1:J:718:THR:O	1:J:718:THR:OG1	2.35	0.44
2:2:473:LYS:HE2	2:2:473:LYS:HB3	1.77	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:940:VAL:HG23	2:2:944:LEU:HD13	1.99	0.44
3:4:629:LEU:CB	3:4:698:ARG:HH21	2.28	0.44
1:A:194:ILE:H	1:A:194:ILE:HG12	1.63	0.44
1:B:1002:PRO:HA	1:B:1003:PRO:HD3	1.86	0.44
1:E:919:LEU:HG	1:E:920:LEU:HB2	2.00	0.44
1:F:712:VAL:HG21	1:F:729:MET:HE2	1.99	0.44
1:G:1023:ARG:N	1:G:1023:ARG:HD3	2.33	0.44
1:H:617:HIS:HD2	1:H:619:GLY:H	1.65	0.44
1:H:995:PRO:HB3	1:H:1137:PHE:HA	2.00	0.44
1:H:1170:PRO:HD2	1:H:1189:THR:HG23	2.00	0.44
1:I:173:ASP:OD1	1:I:173:ASP:N	2.51	0.44
1:I:803:THR:O	1:J:738:GLN:NE2	2.51	0.44
1:J:676:VAL:H	1:J:768:GLN:HE22	1.65	0.44
2:2:574:ILE:N	2:2:575:PRO:CD	2.81	0.44
2:2:1139:LEU:HD11	2:2:1156:LEU:HD21	2.00	0.44
3:4:310:THR:OG1	3:4:311:ARG:N	2.51	0.44
3:4:352:MET:O	3:4:582:GLY:CA	2.66	0.44
3:4:674:LEU:CD2	3:4:675:PRO:HD2	2.47	0.44
1:A:168:ARG:HH22	3:4:367:LEU:CA	2.20	0.43
1:A:718:THR:OG1	1:A:726:ARG:NH2	2.51	0.43
1:D:985:VAL:HG22	1:D:1137:PHE:HE1	1.83	0.43
1:C:697:MET:HE3	1:C:744:PRO:CD	2.48	0.43
1:E:235:LEU:HD13	1:E:360:LEU:HD21	1.99	0.43
1:F:320:ASP:OD1	1:F:347:ARG:NH2	2.51	0.43
1:F:560:LEU:N	1:F:561:PRO:HD2	2.33	0.43
1:F:614:GLN:HA	1:G:431:THR:HG22	1.98	0.43
1:F:1014:VAL:CG1	1:F:1047:TYR:HA	2.48	0.43
1:H:985:VAL:HG22	1:H:1137:PHE:HE1	1.82	0.43
1:I:514:ILE:HD12	1:I:732:VAL:HG11	2.00	0.43
1:J:937:ALA:HB2	1:J:947:ARG:HB3	2.00	0.43
2:2:84:ILE:HD13	2:2:93:VAL:HA	1.99	0.43
2:2:429:ARG:HA	2:2:429:ARG:HD2	1.88	0.43
1:A:248:ASN:ND2	1:A:260:GLU:OE2	2.50	0.43
1:A:581:SER:O	1:A:582:PRO:C	2.53	0.43
1:B:219:LEU:HD23	1:B:352:THR:HA	2.00	0.43
1:B:597:GLU:HG2	1:B:637:PRO:HD2	1.99	0.43
1:B:865:VAL:HG21	1:B:955:SER:HB2	2.00	0.43
1:D:647:ARG:HA	1:D:774:LEU:CD2	2.48	0.43
1:E:761:VAL:HG21	1:E:844:LEU:HD22	2.00	0.43
1:E:1064:TRP:HE1	1:E:1068:LYS:HE3	1.82	0.43
1:H:807:PHE:O	1:H:807:PHE:CD2	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:847:SER:O	1:H:847:SER:OG	2.34	0.43
1:H:864:PHE:CE1	1:H:931:ILE:CD1	3.01	0.43
2:2:282:PHE:HB2	2:2:378:THR:HG22	1.99	0.43
2:2:1026:LYS:NZ	2:2:1129:GLY:O	2.36	0.43
3:4:61:LEU:HD22	3:4:221:LEU:CD1	2.39	0.43
3:4:237:LEU:H	3:4:237:LEU:HG	1.52	0.43
3:4:473:ILE:HD11	3:4:564:LEU:HD12	1.99	0.43
1:A:493:LEU:HD22	1:A:493:LEU:HA	1.86	0.43
1:B:219:LEU:CD2	1:B:351:PRO:O	2.66	0.43
1:B:1012:ARG:HG3	1:B:1045:TRP:CE3	2.53	0.43
1:D:734:THR:HG23	1:D:735:ALA:N	2.33	0.43
1:C:570:THR:O	1:C:700:TRP:CZ2	2.67	0.43
1:E:940:GLN:H	1:E:940:GLN:HG2	1.61	0.43
1:E:1182:ASN:OD1	1:E:1182:ASN:N	2.51	0.43
1:I:521:MET:HG2	1:I:521:MET:H	1.64	0.43
1:J:233:PRO:HA	1:J:234:PRO:HD3	1.89	0.43
2:2:24:PRO:HG2	2:2:24:PRO:O	2.19	0.43
2:2:492:LYS:HA	2:2:492:LYS:HD3	1.75	0.43
3:4:7:ILE:HD11	3:4:228:LEU:HD12	1.99	0.43
3:4:624:ASP:OD2	3:4:698:ARG:CA	2.66	0.43
1:B:20:ASN:N	1:B:20:ASN:OD1	2.51	0.43
1:B:861:ARG:NH1	1:B:862:GLU:OE2	2.52	0.43
1:B:1108:ASN:OD1	1:B:1108:ASN:N	2.51	0.43
1:D:692:THR:O	1:D:692:THR:OG1	2.35	0.43
1:F:560:LEU:HD13	1:F:560:LEU:C	2.39	0.43
1:H:605:GLY:C	1:H:606:MET:SD	2.97	0.43
1:I:277:VAL:HG13	1:I:278:LEU:HG	2.01	0.43
1:J:126:PHE:CB	1:J:131:ALA:HB1	2.48	0.43
1:J:484:THR:HG23	1:J:486:LEU:H	1.83	0.43
3:4:629:LEU:HG	3:4:693:TRP:CZ3	2.54	0.43
1:A:519:GLN:NE2	1:A:519:GLN:CA	2.81	0.43
1:D:160:PHE:HA	1:D:1206:GLY:O	2.18	0.43
1:D:1160:GLU:H	1:D:1160:GLU:HG2	1.61	0.43
1:C:466:THR:O	1:C:466:THR:OG1	2.36	0.43
1:C:699:ASN:O	1:C:703:THR:HG23	2.19	0.43
1:C:990:ASN:ND2	1:C:1129:THR:O	2.46	0.43
1:I:705:ILE:HG23	1:I:733:MET:HB3	2.00	0.43
1:I:910:LYS:HE3	1:I:919:LEU:HB3	1.99	0.43
1:J:314:SER:OG	1:J:1198:ASN:OD1	2.36	0.43
2:2:164:GLN:NE2	2:2:246:HIS:CD2	2.86	0.43
2:2:487:ASP:OD1	2:2:487:ASP:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:1173:ILE:H	2:2:1173:ILE:HG12	1.52	0.43
1:A:149:ALA:C	1:A:153:ILE:HD11	2.39	0.43
1:A:294:ARG:HB3	1:A:890:GLN:HB2	2.00	0.43
1:A:501:SER:HB3	1:I:508:ILE:HB	2.01	0.43
1:B:472:LEU:HG	1:B:764:THR:HG21	1.99	0.43
1:B:1030:GLN:HA	1:B:1041:ILE:HG13	2.01	0.43
1:B:1210:VAL:O	1:B:1210:VAL:HG13	2.18	0.43
1:D:38:SER:N	1:D:39:PRO:CD	2.82	0.43
1:D:160:PHE:HD1	1:D:1208:MET:CE	1.99	0.43
1:E:210:ILE:HD13	1:E:210:ILE:HA	1.77	0.43
1:F:464:SER:CB	1:F:800:ILE:CG2	2.92	0.43
1:I:723:ASP:HA	1:I:726:ARG:NH1	2.33	0.43
1:J:102:ASP:OD1	1:J:102:ASP:N	2.51	0.43
1:J:259:LEU:HD12	1:J:259:LEU:HA	1.68	0.43
1:A:470:LEU:HD11	1:A:811:LEU:HD21	2.01	0.43
1:B:1020:ILE:HD11	1:B:1031:LEU:HD13	1.99	0.43
1:D:315:SER:OG	1:D:316:THR:N	2.51	0.43
1:D:790:PRO:HB3	1:D:793:ARG:NH2	2.34	0.43
1:C:684:LEU:CD2	1:C:753:THR:OG1	2.65	0.43
1:F:195:ILE:O	1:F:195:ILE:HG22	2.18	0.43
1:F:543:THR:HG23	1:F:577:SER:H	1.84	0.43
1:F:816:ALA:HA	1:F:819:VAL:HG12	2.00	0.43
1:H:164:TRP:CD1	1:H:165:ASP:HB2	2.53	0.43
1:H:1014:VAL:HG11	1:H:1047:TYR:CD1	2.53	0.43
1:I:417:VAL:HB	1:I:432:ILE:HG21	2.00	0.43
1:I:722:ASN:HB2	1:I:725:THR:HG22	2.00	0.43
2:2:722:LEU:CD1	2:2:722:LEU:C	2.86	0.43
2:2:928:LEU:HG	2:2:939:ASP:HB2	2.00	0.43
2:2:1071:HIS:HD2	2:2:1255:GLU:HG2	1.84	0.43
3:4:18:ASN:O	3:4:19:PHE:C	2.56	0.43
1:A:261:VAL:HG22	1:A:262:ARG:N	2.33	0.43
1:A:705:ILE:HG23	1:A:733:MET:HB3	2.01	0.43
1:B:714:SER:OG	1:B:716:ASN:OD1	2.27	0.43
1:D:117:TYR:HD1	1:D:117:TYR:HA	1.72	0.43
1:C:1040:ASP:N	1:C:1040:ASP:OD1	2.50	0.43
1:E:531:CYS:SG	1:E:813:VAL:HG11	2.59	0.43
1:E:705:ILE:HG23	1:E:733:MET:HB3	2.00	0.43
1:E:1002:PRO:HA	1:E:1003:PRO:HD3	1.95	0.43
1:F:387:CYS:SG	1:F:388:MET:N	2.92	0.43
1:I:398:ILE:HD11	1:I:964:VAL:HG21	2.01	0.43
1:J:31:ASN:ND2	1:J:50:GLN:OE1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:111:ILE:HD13	1:J:111:ILE:N	2.34	0.43
1:J:722:ASN:OD1	1:J:722:ASN:N	2.42	0.43
2:2:71:SER:OG	2:2:131:ARG:NH2	2.43	0.43
2:2:81:VAL:HG13	2:2:388:THR:OG1	2.19	0.43
2:2:288:ARG:HH11	2:2:288:ARG:CG	2.24	0.43
2:2:491:VAL:O	2:2:491:VAL:HG13	2.16	0.43
2:2:589:ASN:OD1	2:2:589:ASN:N	2.44	0.43
3:4:624:ASP:CG	3:4:698:ARG:HA	2.38	0.43
1:A:588:ALA:HA	1:A:591:ASN:ND2	2.34	0.43
1:A:663:GLN:HG3	1:A:854:ASN:HD21	1.84	0.43
1:A:1004:PHE:O	1:A:1004:PHE:CG	2.70	0.43
1:B:33:PRO:HD2	1:B:43:ALA:HA	2.01	0.43
1:B:158:ARG:NH2	1:B:1205:ASP:OD2	2.52	0.43
1:B:486:LEU:HD11	1:B:743:THR:HG22	2.01	0.43
1:D:1106:LYS:HB2	1:D:1113:PRO:HG3	2.01	0.43
1:C:722:ASN:HD21	1:E:724:LEU:HD11	1.84	0.43
1:E:206:LEU:HD12	1:E:243:ILE:HG12	2.00	0.43
1:E:416:ILE:HG21	1:E:1207:ILE:HG21	2.01	0.43
1:E:1065:PRO:HB3	1:F:112:VAL:HB	2.01	0.43
1:F:413:PRO:HB2	1:F:434:ILE:HG12	2.00	0.43
1:G:237:GLU:HB3	1:G:1152:ALA:HB2	2.00	0.43
1:G:803:THR:O	1:H:738:GLN:NE2	2.48	0.43
1:G:983:TYR:HE2	1:G:1003:PRO:CD	2.23	0.43
1:H:410:HIS:CD2	1:H:442:CYS:H	2.37	0.43
1:H:464:SER:OG	1:H:804:HIS:CD2	2.71	0.43
1:I:707:PHE:O	1:I:707:PHE:CG	2.70	0.43
1:I:983:TYR:HE1	1:I:1139:SER:HB2	1.83	0.43
2:2:94:TYR:CZ	2:2:276:LEU:HD22	2.53	0.43
2:2:499:GLN:HA	2:2:502:GLN:HB3	2.00	0.43
1:B:457:MET:CE	1:B:920:LEU:CD2	2.77	0.43
1:B:463:SER:O	1:B:464:SER:HB3	2.18	0.43
1:C:370:ARG:HD2	1:C:373:ARG:HB2	2.01	0.43
1:C:583:VAL:HG21	1:C:621:TRP:CD1	2.54	0.43
1:C:1056:VAL:HG11	1:C:1107:ILE:HB	2.01	0.43
1:E:234:PRO:CA	1:E:341:ALA:O	2.66	0.43
1:E:650:TRP:HB3	1:E:773:ARG:HE	1.84	0.43
1:E:697:MET:HE1	1:E:747:ILE:HG12	1.96	0.43
1:E:985:VAL:HG12	1:E:1073:ARG:HB3	2.01	0.43
1:E:1020:ILE:HG12	1:E:1031:LEU:HD13	2.01	0.43
1:F:446:ALA:HB3	1:F:854:ASN:HD22	1.84	0.43
1:F:1003:PRO:HB2	1:F:1073:ARG:NH1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:580:HIS:HD2	1:G:621:TRP:HE1	1.67	0.43
1:G:725:THR:HG21	1:I:501:SER:OG	2.19	0.43
1:H:268:ASP:OD1	1:H:268:ASP:N	2.50	0.43
1:I:458:HIS:C	1:I:458:HIS:ND1	2.72	0.43
1:J:294:ARG:HB3	1:J:890:GLN:HB2	2.00	0.43
1:J:370:ARG:HA	1:J:387:CYS:HA	1.99	0.43
2:2:254:LEU:C	2:2:254:LEU:CD2	2.87	0.43
2:2:256:LEU:C	2:2:256:LEU:CD2	2.85	0.43
2:2:386:GLN:HG3	2:2:674:SER:OG	2.18	0.43
2:2:1087:PRO:O	2:2:1087:PRO:HG2	2.18	0.43
2:2:1091:GLY:O	2:2:1093:ASP:N	2.43	0.43
2:2:1101:PHE:HB3	2:2:1247:PRO:HA	2.00	0.43
3:4:621:TRP:CG	3:4:703:GLY:N	2.78	0.43
1:A:984:LEU:HB2	1:A:1074:VAL:HG22	2.00	0.42
1:D:567:LEU:HD21	1:D:705:ILE:HD13	2.01	0.42
1:C:521:MET:C	1:C:521:MET:SD	2.97	0.42
1:C:1183:ASP:OD1	1:C:1183:ASP:N	2.52	0.42
1:E:177:LYS:HB2	1:E:178:SER:H	1.60	0.42
1:F:277:VAL:HG11	1:F:901:ILE:HG12	2.00	0.42
1:F:411:GLN:HB2	1:F:445:PHE:HB2	2.00	0.42
1:H:1016:ARG:NH1	1:H:1017:PHE:CZ	2.87	0.42
1:I:601:ILE:HD12	1:I:601:ILE:HA	1.81	0.42
1:I:647:ARG:O	1:I:773:ARG:NH2	2.52	0.42
1:I:1081:TYR:O	1:I:1081:TYR:HD2	2.02	0.42
1:J:597:GLU:HB3	1:J:636:ALA:HA	2.00	0.42
1:J:988:ALA:HA	1:J:1133:VAL:HA	2.01	0.42
2:2:163:VAL:CG1	2:2:843:GLU:CD	2.87	0.42
2:2:387:PRO:CG	2:2:671:ASP:HB2	2.46	0.42
3:4:336:ARG:HA	3:4:336:ARG:HD3	1.77	0.42
3:4:352:MET:HG2	3:4:352:MET:H	1.43	0.42
3:4:473:ILE:CG1	3:4:564:LEU:HD21	2.47	0.42
1:A:799:ASP:OD1	1:A:799:ASP:N	2.52	0.42
1:B:772:THR:CG2	1:B:775:VAL:HB	2.49	0.42
1:E:292:ALA:O	1:E:296:ASN:ND2	2.40	0.42
1:E:328:ARG:HA	1:E:328:ARG:HD2	1.86	0.42
1:F:220:ILE:CG2	1:F:228:MET:HE1	2.49	0.42
1:F:244:VAL:HG21	1:F:265:PRO:HA	2.01	0.42
1:F:479:LEU:HD12	1:F:479:LEU:HA	1.86	0.42
1:G:1004:PHE:N	1:G:1004:PHE:CD1	2.87	0.42
1:H:298:LEU:HD21	1:H:870:ALA:HA	2.01	0.42
1:I:196:GLU:OE1	1:I:196:GLU:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:713:ASN:HA	1:J:726:ARG:HD3	2.01	0.42
2:2:987:TYR:HD1	2:2:992:LYS:HG3	1.83	0.42
3:4:457:ARG:HE	3:4:499:ILE:HG12	1.82	0.42
1:A:587:MET:HG3	1:A:615:PHE:CD2	2.54	0.42
1:D:667:ASN:ND2	1:D:670:ILE:HD11	2.34	0.42
1:C:880:LEU:HD12	1:C:880:LEU:H	1.84	0.42
1:E:553:SER:OG	1:E:591:ASN:ND2	2.50	0.42
1:E:1006:ARG:HA	1:E:1046:VAL:HG21	2.00	0.42
1:F:452:ARG:NH2	1:F:948:GLU:OE1	2.43	0.42
1:G:255:GLU:HG2	1:G:256:GLY:H	1.84	0.42
1:G:1046:VAL:HG22	1:G:1075:LEU:HD23	2.01	0.42
1:H:219:LEU:HD12	1:H:220:ILE:N	2.34	0.42
1:H:530:LYS:HE3	1:H:530:LYS:HB2	1.90	0.42
1:H:601:ILE:HG23	1:H:622:PRO:HB3	2.00	0.42
1:H:982:LEU:HD11	1:H:1136:ALA:HB1	2.00	0.42
1:H:1023:ARG:CZ	1:H:1030:GLN:NE2	2.81	0.42
3:4:65:LEU:C	3:4:65:LEU:CD1	2.85	0.42
3:4:473:ILE:HG12	3:4:564:LEU:HD21	2.00	0.42
1:A:270:SER:O	1:A:270:SER:OG	2.29	0.42
1:A:518:LEU:HD23	1:A:519:GLN:N	2.34	0.42
1:B:832:ILE:CG2	1:B:1213:ALA:CB	2.92	0.42
1:D:468:ALA:O	1:D:471:PRO:HD2	2.19	0.42
1:D:486:LEU:HD11	1:D:743:THR:HG22	2.02	0.42
1:D:1149:THR:HG23	1:D:1162:ALA:HB3	2.00	0.42
1:C:916:ASP:OD1	1:C:916:ASP:N	2.49	0.42
1:F:193:LEU:CD1	1:F:409:MET:HE3	2.48	0.42
1:F:193:LEU:HD13	1:F:409:MET:HE3	2.02	0.42
1:F:410:HIS:CD2	1:F:442:CYS:H	2.38	0.42
1:F:702:SER:OG	1:F:737:ARG:NH1	2.52	0.42
1:F:1046:VAL:HG22	1:F:1075:LEU:HD23	2.02	0.42
1:G:913:PHE:O	1:G:915:LEU:N	2.52	0.42
1:H:117:TYR:CD1	1:H:118:VAL:N	2.87	0.42
1:I:354:THR:O	1:I:358:GLN:N	2.53	0.42
1:I:784:LEU:HB3	1:I:804:HIS:HB3	2.01	0.42
1:J:868:ARG:HG3	1:J:931:ILE:O	2.19	0.42
2:2:454:GLN:OE1	2:2:626:MET:HG2	2.20	0.42
2:2:1074:LEU:O	2:2:1074:LEU:HD12	2.19	0.42
2:2:1197:THR:O	2:2:1197:THR:OG1	2.31	0.42
1:B:963:GLN:O	1:B:967:THR:OG1	2.31	0.42
1:B:1167:LEU:HD13	1:B:1167:LEU:HA	1.90	0.42
1:C:325:THR:HG23	1:C:347:ARG:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:277:VAL:HG11	1:H:901:ILE:HG12	2.02	0.42
1:H:427:LEU:HD13	1:H:837:TYR:HB3	2.00	0.42
1:H:861:ARG:NH1	1:H:954:PRO:O	2.52	0.42
1:H:1019:THR:HG22	1:I:351:PRO:O	2.19	0.42
1:I:164:TRP:CZ3	1:I:167:ILE:HG21	2.49	0.42
1:I:480:LEU:HD22	1:I:758:LEU:HD12	2.01	0.42
1:J:1055:SER:O	1:J:1056:VAL:C	2.56	0.42
1:J:1193:SER:O	1:J:1193:SER:OG	2.37	0.42
3:4:335:LEU:HD13	3:4:380:ILE:HB	2.02	0.42
1:A:684:LEU:HD12	1:A:685:PRO:HD2	2.01	0.42
1:B:793:ARG:HG3	1:B:795:ASP:H	1.85	0.42
1:B:876:ASP:CA	1:B:883:ARG:NH2	2.73	0.42
1:D:617:HIS:CD2	1:D:619:GLY:H	2.37	0.42
1:C:427:LEU:HD13	1:C:837:TYR:HB3	2.01	0.42
1:C:700:TRP:O	1:C:704:THR:HG22	2.19	0.42
1:F:1019:THR:HG22	1:G:351:PRO:C	2.40	0.42
1:G:930:ARG:CZ	1:H:689:VAL:CG2	2.97	0.42
1:H:331:ARG:NH1	1:H:389:GLU:OE2	2.52	0.42
1:H:689:VAL:HG23	1:H:693:TYR:HE2	1.84	0.42
1:J:294:ARG:HH11	1:J:886:ASP:HA	1.84	0.42
1:J:1107:ILE:HG12	1:J:1113:PRO:HD2	2.01	0.42
2:2:92:ASP:HA	2:2:273:TYR:CD1	2.54	0.42
2:2:311:LYS:O	2:2:312:TYR:C	2.57	0.42
2:2:872:TYR:HB3	2:2:876:THR:HG21	2.01	0.42
1:A:173:ASP:OD1	1:A:176:SER:OG	2.25	0.42
1:A:1049:SER:HB3	1:A:1078:LEU:HB3	2.00	0.42
1:B:220:ILE:HB	1:B:221:GLY:H	1.59	0.42
1:D:776:GLN:NE2	1:D:776:GLN:C	2.73	0.42
1:C:426:ASN:HD22	1:C:429:ASN:HD21	1.68	0.42
1:C:456:VAL:HG11	1:C:950:VAL:HG11	2.02	0.42
1:C:519:GLN:HG2	1:C:520:PRO:HD2	2.02	0.42
1:E:259:LEU:H	1:E:259:LEU:HG	1.63	0.42
1:F:969:MET:O	1:F:979:ARG:NH2	2.53	0.42
1:G:955:SER:OG	1:G:956:HIS:N	2.53	0.42
1:I:397:HIS:ND1	1:I:397:HIS:C	2.73	0.42
1:I:461:ASN:ND2	1:I:918:ALA:HB1	2.34	0.42
1:J:245:CYS:HB3	1:J:263:LEU:HD12	2.01	0.42
1:J:446:ALA:HB3	1:J:854:ASN:HD22	1.85	0.42
2:2:287:LEU:HD12	2:2:784:THR:HG21	2.01	0.42
2:2:508:PHE:HE1	2:2:988:ASP:HB3	1.78	0.42
2:2:975:ASN:ND2	2:2:975:ASN:C	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:1078:ILE:CD1	2:2:1203:TYR:CD2	3.03	0.42
1:B:294:ARG:HB3	1:B:890:GLN:HB2	2.01	0.42
1:B:558:THR:O	1:B:720:THR:OG1	2.28	0.42
1:B:567:LEU:HD21	1:B:705:ILE:HD13	2.02	0.42
1:D:724:LEU:HD12	1:D:724:LEU:C	2.38	0.42
1:D:775:VAL:HG12	1:D:777:ASN:O	2.20	0.42
1:D:985:VAL:HG12	1:D:1073:ARG:HB3	2.01	0.42
1:D:1184:LEU:HA	1:D:1184:LEU:HD13	1.72	0.42
1:C:207:LEU:HD12	1:C:207:LEU:HA	1.92	0.42
1:E:687:LEU:H	1:E:687:LEU:HG	1.67	0.42
1:F:317:PHE:CD2	1:F:317:PHE:N	2.83	0.42
1:F:832:ILE:HB	1:F:835:HIS:HB2	2.01	0.42
1:F:1014:VAL:HG13	1:F:1014:VAL:O	2.19	0.42
1:G:427:LEU:HD12	1:G:427:LEU:HA	1.74	0.42
1:H:260:GLU:HG2	1:H:262:ARG:HE	1.84	0.42
1:H:463:SER:HB2	1:H:926:TYR:OH	2.19	0.42
1:H:595:GLN:HG3	1:I:687:LEU:HG	2.01	0.42
1:I:460:VAL:CG1	1:I:787:ARG:NE	2.83	0.42
1:J:219:LEU:HD22	1:J:219:LEU:HA	1.95	0.42
1:J:235:LEU:HD23	1:J:235:LEU:HA	1.63	0.42
1:J:257:ARG:HE	1:J:257:ARG:HB3	1.43	0.42
1:J:457:MET:SD	1:J:920:LEU:HD12	2.60	0.42
2:2:585:ASN:OD1	2:2:585:ASN:N	2.44	0.42
2:2:1011:LEU:HD22	2:2:1145:LEU:HD13	2.00	0.42
2:2:1180:LEU:C	2:2:1180:LEU:CD2	2.85	0.42
1:A:517:LEU:HD21	1:A:564:TRP:CB	2.50	0.42
1:A:518:LEU:C	1:A:518:LEU:CD2	2.88	0.42
1:A:885:LEU:HG	1:A:965:GLU:HB3	2.02	0.42
1:B:242:ARG:HH12	1:B:1085:LEU:HD11	1.84	0.42
1:B:679:TRP:HD1	1:B:680:PRO:HD2	1.85	0.42
1:D:333:PHE:CD2	1:D:333:PHE:N	2.86	0.42
1:D:861:ARG:NH1	1:D:954:PRO:O	2.52	0.42
1:D:1040:ASP:OD1	1:D:1040:ASP:N	2.52	0.42
1:C:207:LEU:HD23	1:C:265:PRO:HB3	2.01	0.42
1:C:521:MET:SD	1:C:521:MET:O	2.78	0.42
1:C:1138:THR:HG21	1:C:1142:ASN:HD22	1.85	0.42
1:E:450:ASP:CB	1:E:861:ARG:HD3	2.47	0.42
1:E:1149:THR:HG23	1:E:1150:ASN:H	1.84	0.42
1:I:456:VAL:O	1:I:460:VAL:HG23	2.19	0.42
1:I:462:ILE:O	1:I:464:SER:N	2.52	0.42
2:2:95:VAL:HG13	2:2:96:PRO:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:2:95:VAL:CG1	2:2:96:PRO:N	2.83	0.42
2:2:393:ARG:HD3	2:2:393:ARG:HA	1.74	0.42
2:2:409:ALA:HB1	2:2:424:VAL:HG21	2.01	0.42
3:4:657:LEU:HB2	3:4:712:LEU:HD21	2.00	0.42
1:A:911:THR:HG23	3:4:361:THR:HG21	2.01	0.42
1:A:1016:ARG:NH2	1:B:1211:ARG:HH22	2.16	0.42
1:E:583:VAL:O	1:E:587:MET:N	2.42	0.42
1:G:524:ASP:OD1	1:G:524:ASP:N	2.40	0.42
1:H:401:THR:O	1:H:405:LEU:N	2.51	0.42
1:I:201:CYS:CB	1:I:399:ARG:NH1	2.82	0.42
1:J:120:ASN:ND2	1:J:136:LEU:HG	2.35	0.42
2:2:15:LEU:O	2:2:16:SER:C	2.57	0.42
2:2:20:ALA:HA	2:2:846:ARG:HD3	2.02	0.42
2:2:290:MET:CG	2:2:291:TYR:CE1	3.03	0.42
2:2:986:PHE:CE1	2:2:1027:TRP:CE2	3.07	0.42
3:4:282:PHE:O	3:4:682:THR:HG22	2.19	0.42
3:4:352:MET:HE1	3:4:593:LEU:CD2	2.49	0.42
1:A:476:LEU:HD21	1:A:533:ALA:HA	2.01	0.41
1:A:483:VAL:HG23	1:A:754:GLU:OE1	2.20	0.41
1:A:919:LEU:HD23	1:A:919:LEU:C	2.39	0.41
1:B:219:LEU:HD23	1:B:352:THR:CA	2.50	0.41
1:B:477:SER:OG	1:B:481:ARG:NH2	2.52	0.41
1:B:1011:VAL:O	1:B:1011:VAL:HG22	2.19	0.41
1:D:1099:ILE:HD13	1:D:1099:ILE:HA	1.85	0.41
1:C:517:LEU:HD11	1:C:568:PHE:CE2	2.52	0.41
1:F:197:ASP:N	1:F:197:ASP:OD1	2.53	0.41
1:F:353:GLN:HB3	1:F:1154:ILE:HD13	2.02	0.41
1:F:590:ALA:HB2	1:F:639:LEU:HD11	2.01	0.41
1:F:1091:GLN:NE2	1:F:1127:CYS:SG	2.93	0.41
1:G:217:LYS:HD2	1:G:217:LYS:HA	1.85	0.41
1:G:465:ASN:HB3	1:H:500:ILE:HA	2.02	0.41
1:G:565:LYS:HE3	1:G:565:LYS:HB2	1.87	0.41
1:I:226:MET:SD	1:I:226:MET:O	2.78	0.41
1:I:721:VAL:O	1:I:721:VAL:HG13	2.20	0.41
1:J:981:ASN:HB2	1:J:1075:LEU:HD11	2.02	0.41
3:4:316:SER:OG	3:4:354:ASP:HB2	2.18	0.41
3:4:615:VAL:HG11	3:4:708:PHE:HB3	2.00	0.41
1:B:264:PRO:HB2	1:B:268:ASP:HB2	2.01	0.41
1:B:427:LEU:HD13	1:B:837:TYR:HB3	2.00	0.41
1:B:463:SER:HB2	1:B:926:TYR:HH	1.85	0.41
1:B:985:VAL:HG22	1:B:1137:PHE:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:452:ARG:NH2	1:D:948:GLU:OE1	2.44	0.41
1:D:545:LEU:HD13	1:D:569:LEU:HD11	2.01	0.41
1:D:776:GLN:NE2	1:D:776:GLN:O	2.52	0.41
1:C:210:ILE:HG21	1:C:1121:ILE:HG12	2.02	0.41
1:C:432:ILE:HD13	1:C:1207:ILE:O	2.20	0.41
1:E:323:THR:O	1:E:323:THR:OG1	2.34	0.41
1:H:613:SER:C	1:I:431:THR:HG21	2.36	0.41
1:H:1095:ASP:HA	1:H:1133:VAL:HG23	2.02	0.41
1:I:397:HIS:CD2	1:I:1184:LEU:HD21	2.55	0.41
1:I:876:ASP:OD2	1:J:686:ARG:NH2	2.53	0.41
1:J:1056:VAL:HG13	1:J:1104:LEU:HD12	2.02	0.41
1:J:1059:PHE:CD1	1:J:1063:VAL:CG1	3.03	0.41
2:2:128:ARG:HB3	2:2:133:ARG:HH12	0.63	0.41
2:2:284:ALA:HA	2:2:288:ARG:HB2	2.02	0.41
2:2:287:LEU:HD23	2:2:375:MET:SD	2.60	0.41
2:2:982:THR:O	2:2:986:PHE:CD2	2.73	0.41
2:2:1116:TYR:CE1	2:2:1180:LEU:HD22	2.55	0.41
3:4:624:ASP:OD2	3:4:698:ARG:HA	2.20	0.41
1:B:73:ASN:ND2	1:B:73:ASN:C	2.73	0.41
1:B:119:CYS:O	1:B:119:CYS:SG	2.78	0.41
1:B:198:THR:O	1:B:331:ARG:NH2	2.49	0.41
1:D:1006:ARG:NH1	1:D:1077:GLU:OE2	2.53	0.41
1:C:799:ASP:OD1	1:C:799:ASP:N	2.37	0.41
1:E:282:TYR:CZ	1:F:830:ASN:OD1	2.69	0.41
1:F:217:LYS:HA	1:F:217:LYS:HD3	1.73	0.41
1:F:1103:TRP:CD1	1:F:1113:PRO:HG2	2.55	0.41
1:G:709:ILE:HG13	1:G:733:MET:CE	2.50	0.41
1:G:830:ASN:N	1:G:830:ASN:OD1	2.52	0.41
1:I:429:ASN:N	1:I:429:ASN:ND2	2.60	0.41
1:I:446:ALA:HB2	1:I:858:VAL:HG22	2.00	0.41
2:2:485:GLU:HG3	2:2:505:ARG:NH1	2.36	0.41
3:4:27:LEU:HD11	3:4:244:LEU:HB2	2.02	0.41
1:A:465:ASN:OD1	1:A:465:ASN:N	2.50	0.41
1:A:511:ILE:HD12	1:A:732:VAL:CG2	2.44	0.41
1:A:852:THR:HA	3:4:234:LYS:HZ1	1.85	0.41
1:A:1107:ILE:HG12	1:A:1113:PRO:HD2	2.02	0.41
1:D:193:LEU:O	1:D:402:TYR:OH	2.29	0.41
1:D:578:ASP:HB3	1:D:581:SER:HB2	2.02	0.41
1:D:626:LEU:CD1	1:D:776:GLN:HG2	2.32	0.41
1:E:179:LEU:HD21	1:E:844:LEU:HD23	2.02	0.41
1:F:971:GLU:OE1	1:F:1168:ARG:NH2	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:928:ASP:OD1	1:G:930:ARG:NE	2.52	0.41
2:2:511:LEU:O	2:2:513:ALA:N	2.54	0.41
2:2:986:PHE:HZ	2:2:1027:TRP:NE1	2.08	0.41
2:2:1129:GLY:C	2:2:1130:LEU:HD13	2.40	0.41
3:4:9:THR:HG22	3:4:10:ALA:H	1.84	0.41
3:4:36:ARG:HH22	3:4:247:ARG:HG3	1.85	0.41
3:4:347:LEU:HD23	3:4:347:LEU:HA	1.88	0.41
1:A:483:VAL:HG23	1:A:483:VAL:O	2.19	0.41
1:A:520:PRO:HB3	2:2:1168:GLN:CD	2.41	0.41
1:D:656:PHE:CA	1:D:674:ARG:NH1	2.83	0.41
1:D:666:ALA:HB3	1:D:765:PRO:HG3	2.02	0.41
1:D:1021:VAL:HA	1:D:1022:PRO:HD3	1.86	0.41
1:D:1081:TYR:CD2	1:D:1081:TYR:C	2.93	0.41
1:C:433:PRO:HD2	1:C:437:ARG:HH12	1.76	0.41
1:C:686:ARG:CG	1:C:687:LEU:HD13	2.50	0.41
1:C:697:MET:HE3	1:C:744:PRO:N	2.35	0.41
1:C:973:ASN:HB2	1:C:1144:ASP:HB3	2.02	0.41
1:C:1017:PHE:HB2	1:C:1019:THR:HG22	2.02	0.41
1:G:601:ILE:HD11	1:G:615:PHE:CZ	2.55	0.41
1:G:641:ALA:C	1:G:707:PHE:HE1	2.23	0.41
1:G:789:ASP:HA	1:G:790:PRO:HD3	1.90	0.41
1:H:401:THR:HG21	1:H:960:ALA:HB2	2.02	0.41
1:I:356:ASN:HB3	1:I:1151:ALA:HB1	2.03	0.41
1:I:1091:GLN:H	1:I:1091:GLN:HG2	1.70	0.41
2:2:12:LEU:N	2:2:12:LEU:CD1	2.83	0.41
2:2:17:LEU:HD23	2:2:17:LEU:HA	1.87	0.41
2:2:81:VAL:HA	2:2:677:ASN:HD21	1.86	0.41
2:2:250:MET:SD	2:2:373:ASP:HB3	2.60	0.41
2:2:341:LEU:C	2:2:341:LEU:CD2	2.89	0.41
2:2:387:PRO:HD3	2:2:673:PHE:HD2	1.86	0.41
2:2:578:LEU:HD22	2:2:795:GLY:O	2.20	0.41
3:4:291:ASP:OD1	3:4:387:SER:OG	2.37	0.41
3:4:641:ARG:O	3:4:641:ARG:HG3	2.20	0.41
1:D:558:THR:HB	1:D:720:THR:HG23	2.01	0.41
1:D:779:VAL:HG13	1:D:779:VAL:O	2.19	0.41
1:D:788:VAL:HG23	1:D:793:ARG:HD3	2.01	0.41
1:C:183:LEU:HD22	1:C:479:LEU:HD13	2.02	0.41
1:C:552:ASP:OD1	1:C:552:ASP:N	2.54	0.41
1:C:701:ILE:HD11	1:C:822:MET:HG3	2.02	0.41
1:C:747:ILE:HD13	1:C:747:ILE:HA	1.92	0.41
1:E:331:ARG:HB3	1:E:344:TYR:OH	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:571:LEU:HD11	1:F:705:ILE:HD11	2.02	0.41
1:G:149:ALA:O	1:G:150:THR:C	2.58	0.41
1:G:356:ASN:CB	1:G:1151:ALA:HB1	2.37	0.41
1:I:426:ASN:CA	1:I:429:ASN:HD21	2.34	0.41
1:J:120:ASN:OD1	1:J:136:LEU:HG	2.20	0.41
1:J:981:ASN:HB3	1:J:1077:GLU:HA	2.01	0.41
2:2:510:LEU:C	2:2:510:LEU:CD2	2.85	0.41
2:2:1001:ASN:ND2	2:2:1150:GLU:OE2	2.46	0.41
3:4:44:TRP:O	3:4:48:GLN:N	2.52	0.41
3:4:219:TYR:HA	3:4:220:PRO:HD3	1.96	0.41
3:4:318:PRO:HG3	3:4:352:MET:HE3	2.01	0.41
3:4:680:PRO:HD2	3:4:683:PHE:CD2	2.56	0.41
1:A:163:ALA:HB2	1:A:281:GLY:HA2	2.03	0.41
1:A:382:SER:OG	1:A:383:ALA:N	2.53	0.41
1:A:1091:GLN:H	1:A:1091:GLN:HG2	1.61	0.41
1:B:464:SER:OG	1:B:804:HIS:NE2	2.54	0.41
1:B:676:VAL:HG12	1:B:771:PHE:HD2	1.84	0.41
1:D:159:SER:CB	1:D:168:ARG:NH1	2.79	0.41
1:C:730:THR:O	1:C:734:THR:OG1	2.29	0.41
1:E:204:PHE:HE1	1:E:975:PHE:HE1	1.68	0.41
1:E:456:VAL:HG11	1:E:934:LEU:HB3	2.02	0.41
1:E:510:PRO:HB3	1:E:560:LEU:HD21	2.03	0.41
1:G:197:ASP:HB2	1:G:251:SER:OG	2.21	0.41
1:H:931:ILE:O	1:H:931:ILE:HG12	2.20	0.41
1:I:985:VAL:HG22	1:I:1137:PHE:HE1	1.86	0.41
2:2:149:VAL:HG21	2:2:153:PRO:HD3	2.02	0.41
2:2:462:VAL:CG2	2:2:497:ILE:CD1	2.59	0.41
2:2:697:HIS:H	2:2:697:HIS:CD2	2.38	0.41
2:2:1126:VAL:HG23	2:2:1128:SER:N	2.33	0.41
3:4:253:LEU:HD23	3:4:254:LYS:HG2	2.03	0.41
3:4:617:ARG:NH1	3:4:623:ILE:CG1	2.84	0.41
1:A:171:SER:N	1:A:172:PRO:HD2	2.36	0.41
1:A:491:THR:HG22	2:2:1164:SER:HA	2.01	0.41
1:A:1128:ILE:O	1:B:104:GLN:NE2	2.52	0.41
1:D:209:ASN:HD21	1:D:267:THR:HG23	1.86	0.41
1:D:678:PRO:HB3	1:D:771:PHE:CD1	2.56	0.41
1:C:429:ASN:N	1:C:429:ASN:ND2	2.60	0.41
1:E:340:LEU:HA	1:E:340:LEU:HD22	1.43	0.41
1:E:679:TRP:HZ3	1:E:697:MET:HA	1.86	0.41
1:E:1204:LEU:HD23	1:E:1204:LEU:HA	1.88	0.41
1:F:246:MET:HE3	1:F:262:ARG:HH11	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:555:GLN:NE2	1:F:555:GLN:CA	2.73	0.41
1:F:676:VAL:H	1:F:768:GLN:HE22	1.68	0.41
1:G:259:LEU:H	1:G:259:LEU:HG	1.74	0.41
1:G:722:ASN:ND2	1:I:501:SER:O	2.54	0.41
1:I:207:LEU:HD22	1:I:244:VAL:HG22	2.02	0.41
1:J:298:LEU:HG	1:J:299:LEU:HD12	2.02	0.41
1:J:848:ASN:O	1:J:852:THR:OG1	2.30	0.41
2:2:24:PRO:HB3	2:2:886:LEU:HD13	2.03	0.41
2:2:398:VAL:HG21	3:4:529:SER:HA	2.03	0.41
2:2:497:ILE:HD11	2:2:498:TYR:CD2	2.56	0.41
2:2:577:ILE:HG23	2:2:792:ALA:HB3	1.96	0.41
2:2:908:SER:HB2	2:2:1240:TYR:HA	2.02	0.41
1:A:412:ASP:O	1:A:416:ILE:HG22	2.21	0.41
1:A:556:SER:OG	1:A:557:ILE:N	2.51	0.41
1:A:722:ASN:HB3	1:A:725:THR:HG22	2.03	0.41
1:B:119:CYS:O	1:B:123:ASN:N	2.54	0.41
1:B:257:ARG:O	1:B:259:LEU:HB3	2.21	0.41
1:B:257:ARG:C	1:B:259:LEU:N	2.74	0.41
1:B:758:LEU:HA	1:B:758:LEU:HD13	1.82	0.41
1:B:1103:TRP:CD1	1:B:1113:PRO:HG2	2.56	0.41
1:D:737:ARG:NH2	1:C:795:ASP:OD2	2.54	0.41
1:D:986:GLN:NE2	1:D:1068:LYS:O	2.43	0.41
1:C:432:ILE:HD13	1:C:1207:ILE:HG22	2.03	0.41
1:C:626:LEU:HD13	1:C:626:LEU:HA	1.87	0.41
1:C:652:GLN:HA	1:C:773:ARG:HD2	2.03	0.41
1:E:183:LEU:HD21	1:E:849:ALA:CB	2.50	0.41
1:E:241:ASN:ND2	1:E:1151:ALA:HB2	2.36	0.41
1:E:354:THR:H	1:E:357:ALA:HB3	1.86	0.41
1:F:322:THR:H	1:F:322:THR:HG1	1.66	0.41
1:F:555:GLN:HG3	1:F:559:HIS:HB3	2.03	0.41
1:F:572:ALA:HB1	1:F:818:ILE:HD12	2.02	0.41
1:F:920:LEU:O	1:F:920:LEU:CG	2.69	0.41
1:F:1205:ASP:N	1:F:1205:ASP:OD1	2.52	0.41
1:G:196:GLU:O	1:G:254:ASP:HB3	2.21	0.41
1:G:517:LEU:HD13	1:G:517:LEU:HA	1.82	0.41
1:G:546:SER:HB2	1:G:815:PRO:HD3	2.03	0.41
1:G:559:HIS:CE1	1:G:561:PRO:HD2	2.56	0.41
1:G:827:THR:OG1	1:G:828:GLU:N	2.54	0.41
1:G:875:GLN:O	1:G:883:ARG:NH2	2.49	0.41
1:H:305:THR:HA	1:H:398:ILE:HD13	2.03	0.41
1:H:920:LEU:O	1:H:920:LEU:CG	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:315:SER:OG	1:J:316:THR:N	2.51	0.41
1:J:558:THR:O	1:J:720:THR:OG1	2.31	0.41
1:J:930:ARG:HE	1:J:930:ARG:HB2	1.51	0.41
1:J:971:GLU:HG3	1:J:1188:ILE:HG13	2.03	0.41
1:J:1104:LEU:HD13	1:J:1104:LEU:HA	1.87	0.41
2:2:90:PRO:HG2	2:2:91:ASP:H	1.85	0.41
2:2:116:LEU:HD12	2:2:117:HIS:N	2.35	0.41
2:2:971:SER:O	2:2:972:ASP:C	2.57	0.41
2:2:981:LEU:HD12	2:2:981:LEU:HA	1.94	0.41
2:2:1122:PHE:HZ	2:2:1140:LEU:HG	1.86	0.41
3:4:474:LEU:C	3:4:474:LEU:CD2	2.87	0.41
3:4:629:LEU:HG	3:4:693:TRP:HZ3	1.86	0.41
3:4:657:LEU:HD13	3:4:668:VAL:HG11	2.01	0.41
1:A:168:ARG:HH11	1:A:168:ARG:HB2	1.76	0.41
1:A:993:TRP:NE1	1:A:995:PRO:HG3	2.35	0.41
1:B:583:VAL:HG21	1:B:621:TRP:CD1	2.56	0.41
1:B:875:GLN:NE2	1:B:930:ARG:CB	2.75	0.41
1:B:920:LEU:CD1	1:B:920:LEU:N	2.84	0.41
1:B:1017:PHE:O	1:B:1018:GLY:C	2.59	0.41
1:B:1106:LYS:HB2	1:B:1113:PRO:HG3	2.03	0.41
1:C:519:GLN:HG2	1:C:520:PRO:CD	2.52	0.41
1:E:457:MET:HE1	1:E:934:LEU:HD11	2.03	0.41
1:E:800:ILE:HG13	1:E:945:VAL:HG21	2.03	0.41
1:E:1178:ARG:HD2	1:E:1178:ARG:HA	1.89	0.41
1:F:551:PRO:O	1:F:551:PRO:HG2	2.19	0.41
1:F:587:MET:HG2	1:F:615:PHE:CE2	2.56	0.41
1:F:773:ARG:HH11	1:F:774:LEU:HD13	1.86	0.41
1:G:535:TRP:O	1:G:768:GLN:NE2	2.38	0.41
1:G:540:LEU:HD13	1:G:540:LEU:HA	1.93	0.41
1:G:712:VAL:O	1:G:726:ARG:HD2	2.21	0.41
1:H:838:GLY:HA3	1:H:1210:VAL:HG23	2.03	0.41
1:J:58:SER:O	1:J:58:SER:OG	2.32	0.41
1:J:121:VAL:HG21	1:J:136:LEU:HD21	1.94	0.41
1:J:200:LEU:HA	1:J:200:LEU:HD23	1.85	0.41
1:J:993:TRP:NE1	1:J:995:PRO:HG3	2.36	0.41
3:4:394:ARG:HH11	3:4:681:ARG:CZ	2.34	0.41
3:4:621:TRP:HA	3:4:703:GLY:CA	2.51	0.41
1:A:470:LEU:HD12	1:A:470:LEU:HA	1.77	0.40
1:A:517:LEU:CD1	1:A:568:PHE:HD2	2.33	0.40
1:B:440:ILE:HG13	1:B:1202:PRO:HD3	2.03	0.40
1:D:159:SER:OG	1:D:1205:ASP:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:270:SER:OG	1:D:976:ASN:ND2	2.40	0.40
1:D:692:THR:HG21	1:C:930:ARG:HH22	1.86	0.40
1:D:788:VAL:HG12	1:D:932:ALA:H	1.86	0.40
1:C:451:LEU:HB3	1:C:666:ALA:HB2	2.03	0.40
1:C:687:LEU:CD1	1:C:687:LEU:N	2.84	0.40
1:C:1174:ASP:HA	1:C:1175:PRO:HD3	1.92	0.40
1:F:355:LYS:NZ	1:F:1161:ASN:OD1	2.39	0.40
1:G:355:LYS:HA	1:G:358:GLN:HG3	2.02	0.40
1:G:392:ASP:HA	1:G:1190:LEU:HA	2.03	0.40
1:G:983:TYR:HE1	1:G:1075:LEU:HD13	1.86	0.40
1:G:1012:ARG:H	1:G:1012:ARG:HG2	1.59	0.40
1:G:1028:GLU:HA	1:G:1029:PRO:HD3	1.93	0.40
1:H:407:ARG:HA	1:H:407:ARG:HD2	1.91	0.40
1:I:193:LEU:HD11	1:I:859:ILE:HD11	2.03	0.40
1:J:48:GLN:HE21	1:J:48:GLN:HB3	1.52	0.40
1:J:436:LEU:HD23	1:J:436:LEU:HA	1.92	0.40
2:2:163:VAL:HG11	2:2:843:GLU:CD	2.41	0.40
2:2:991:LEU:HD13	2:2:992:LYS:N	2.35	0.40
3:4:301:ASP:OD1	3:4:301:ASP:N	2.33	0.40
1:A:394:LEU:HD13	1:A:967:THR:HG21	2.03	0.40
1:A:517:LEU:CD1	1:A:568:PHE:CE2	2.87	0.40
1:A:690:ALA:HB3	1:I:607:HIS:HB2	2.03	0.40
1:B:219:LEU:CD2	1:B:351:PRO:C	2.88	0.40
1:D:210:ILE:HD11	1:D:1087:TYR:CG	2.56	0.40
1:D:257:ARG:H	1:D:257:ARG:HG2	1.49	0.40
1:C:278:LEU:HD11	1:C:897:ALA:HB1	2.04	0.40
1:C:279:SER:O	1:C:279:SER:OG	2.33	0.40
1:C:525:TYR:C	1:C:527:ALA:H	2.25	0.40
1:E:675:MET:HB3	1:E:675:MET:HE2	1.89	0.40
1:E:697:MET:HE3	1:E:744:PRO:CA	2.48	0.40
1:E:976:ASN:N	1:E:976:ASN:OD1	2.54	0.40
1:F:847:SER:OG	1:F:848:ASN:N	2.54	0.40
1:G:154:ASN:C	1:G:154:ASN:ND2	2.73	0.40
1:H:259:LEU:HD12	1:H:259:LEU:HA	1.90	0.40
1:H:265:PRO:HA	1:H:266:PRO:HD3	1.96	0.40
1:H:702:SER:OG	1:H:737:ARG:NH1	2.54	0.40
1:I:389:GLU:H	1:I:389:GLU:HG2	1.73	0.40
2:2:12:LEU:HA	2:2:12:LEU:HD12	1.71	0.40
3:4:52:PHE:HD1	3:4:52:PHE:HA	1.76	0.40
3:4:284:PHE:HD1	3:4:682:THR:HA	1.85	0.40
3:4:629:LEU:HD12	3:4:630:GLU:H	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:689:TYR:CZ	3:4:692:HIS:HE1	2.19	0.40
1:A:337:PRO:HG2	3:4:259:ALA:HB2	2.03	0.40
1:A:470:LEU:HB3	2:2:618:VAL:HB	2.04	0.40
1:B:160:PHE:HD1	1:B:160:PHE:HA	1.76	0.40
1:B:872:ALA:HB1	1:B:879:PHE:HB3	2.02	0.40
1:B:875:GLN:NE2	1:B:930:ARG:CD	2.84	0.40
1:E:656:PHE:HD2	1:E:657:GLY:N	2.19	0.40
1:E:859:ILE:HD13	1:E:859:ILE:HA	1.79	0.40
1:G:454:GLN:HG3	1:G:857:ALA:HA	2.03	0.40
1:G:718:THR:HG22	1:G:726:ARG:NE	2.36	0.40
1:G:916:ASP:OD1	1:G:916:ASP:N	2.51	0.40
1:H:79:ILE:HD11	1:H:81:ARG:O	2.22	0.40
1:H:306:LEU:HD13	1:H:306:LEU:HA	1.91	0.40
1:I:455:GLN:HE21	1:I:459:LEU:HG	1.86	0.40
1:I:528:PHE:HZ	1:I:747:ILE:HD11	1.86	0.40
1:J:869:SER:O	1:J:869:SER:OG	2.36	0.40
1:J:879:PHE:CD1	1:J:932:ALA:HB1	2.57	0.40
2:2:799:PRO:HD2	2:2:1090:ALA:HB2	1.95	0.40
3:4:335:LEU:HD22	3:4:380:ILE:HG13	2.03	0.40
3:4:687:VAL:O	3:4:688:THR:OG1	2.34	0.40
1:A:1186:ASN:C	1:A:1186:ASN:ND2	2.72	0.40
1:B:958:HIS:HE1	1:B:962:GLN:HE21	1.68	0.40
1:B:1100:LEU:HD23	1:B:1100:LEU:HA	1.90	0.40
1:B:1115:VAL:HA	1:B:1116:PRO:HD3	1.93	0.40
1:D:435:SER:OG	1:D:437:ARG:NH2	2.55	0.40
1:D:472:LEU:HD11	1:D:764:THR:HG21	2.02	0.40
1:D:790:PRO:HB3	1:D:793:ARG:HH21	1.86	0.40
1:E:183:LEU:CD1	1:E:849:ALA:HB2	2.51	0.40
1:E:488:LEU:H	1:E:488:LEU:HG	1.69	0.40
1:F:331:ARG:NH1	1:F:389:GLU:OE2	2.53	0.40
1:F:885:LEU:HG	1:F:965:GLU:HB3	2.04	0.40
1:G:748:GLN:HB3	1:G:749:HIS:HD2	1.87	0.40
1:I:322:THR:OG1	1:I:323:THR:N	2.55	0.40
1:J:1030:GLN:NE2	1:J:1038:PRO:HB2	2.36	0.40
2:2:845:LEU:O	2:2:845:LEU:CD2	2.70	0.40
2:2:1153:ILE:H	2:2:1153:ILE:HG13	1.56	0.40
3:4:200:SER:HB2	3:4:206:THR:HG21	2.03	0.40
3:4:617:ARG:CZ	3:4:626:ASP:HB3	2.51	0.40
3:4:648:ILE:HG23	3:4:649:GLU:CG	2.38	0.40
1:A:451:LEU:HD22	1:A:666:ALA:HB2	2.04	0.40
1:A:665:SER:OG	1:A:673:ASN:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1140:GLU:O	1:A:1142:ASN:ND2	2.54	0.40
1:B:462:ILE:CD1	1:B:540:LEU:HD11	2.52	0.40
1:B:1193:SER:O	1:B:1193:SER:OG	2.33	0.40
1:D:200:LEU:HA	1:D:200:LEU:HD23	1.88	0.40
1:D:464:SER:OG	1:D:800:ILE:HG23	2.22	0.40
1:C:543:THR:O	1:C:576:THR:OG1	2.24	0.40
1:E:183:LEU:CD1	1:E:849:ALA:CB	3.00	0.40
1:E:197:ASP:HB2	1:E:310:LYS:HD3	2.02	0.40
1:G:451:LEU:HD23	1:G:451:LEU:HA	1.92	0.40
1:G:1107:ILE:HG23	1:G:1112:ILE:HG22	2.04	0.40
1:H:215:LEU:HD22	1:H:215:LEU:N	2.37	0.40
1:H:294:ARG:HH11	1:H:886:ASP:HA	1.86	0.40
1:I:198:THR:O	1:I:252:LEU:HG	2.22	0.40
1:I:344:TYR:HB3	1:I:368:ILE:HD11	2.02	0.40
1:I:394:LEU:HD12	1:I:394:LEU:C	2.26	0.40
1:I:459:LEU:HD21	1:I:540:LEU:HD21	2.04	0.40
1:I:1075:LEU:HD22	1:I:1077:GLU:HB3	2.03	0.40
1:I:1089:ASP:OD1	1:I:1123:GLN:NE2	2.55	0.40
1:J:120:ASN:CG	1:J:136:LEU:HG	2.42	0.40
2:2:80:ARG:CG	2:2:80:ARG:O	2.70	0.40
2:2:128:ARG:HG2	3:4:707:SER:O	2.20	0.40
2:2:133:ARG:HD2	2:2:676:GLY:H	1.87	0.40
2:2:275:LEU:HA	2:2:275:LEU:HD23	1.77	0.40
3:4:657:LEU:CB	3:4:712:LEU:HD23	2.52	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	1056/1214 (87%)	948 (90%)	98 (9%)	10 (1%)	17 54

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	1146/1214 (94%)	1018 (89%)	117 (10%)	11 (1%)	15	52
1	C	1056/1214 (87%)	947 (90%)	102 (10%)	7 (1%)	22	60
1	D	1146/1214 (94%)	1031 (90%)	108 (9%)	7 (1%)	25	62
1	E	1028/1214 (85%)	916 (89%)	100 (10%)	12 (1%)	13	50
1	F	1146/1214 (94%)	1040 (91%)	92 (8%)	14 (1%)	13	50
1	G	1058/1214 (87%)	959 (91%)	91 (9%)	8 (1%)	19	57
1	H	1147/1214 (94%)	1023 (89%)	112 (10%)	12 (1%)	15	52
1	I	1055/1214 (87%)	961 (91%)	87 (8%)	7 (1%)	22	60
1	J	1146/1214 (94%)	1029 (90%)	103 (9%)	14 (1%)	13	50
2	2	1237/1274 (97%)	1116 (90%)	106 (9%)	15 (1%)	13	50
3	4	573/728 (79%)	506 (88%)	62 (11%)	5 (1%)	17	54
All	All	12794/14142 (90%)	11494 (90%)	1178 (9%)	122 (1%)	20	52

All (122) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	150	THR
1	A	520	PRO
1	A	1153	SER
1	B	220	ILE
1	B	324	ILE
1	D	598	PRO
1	F	954	PRO
1	G	171	SER
1	G	438	PRO
1	G	527	ALA
1	H	595	GLN
1	J	1015	GLY
2	2	130	GLU
3	4	575	PRO
1	A	351	PRO
1	A	1110	ALA
1	B	258	GLY
1	B	1211	ARG
1	D	220	ILE
1	D	438	PRO
1	G	1110	ALA
1	H	324	ILE

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Mol	Chain	Res	Type
1	H	1070	GLY
1	J	139	ASP
1	J	922	GLY
1	J	1024	PRO
2	2	577	ILE
2	2	584	PRO
2	2	819	ILE
3	4	695	PRO
3	4	706	VAL
1	A	209	ASN
1	B	277	VAL
1	D	111	ILE
1	C	1024	PRO
1	E	234	PRO
1	E	1022	PRO
1	F	28	PRO
1	F	115	SER
1	F	557	ILE
1	G	912	ALA
1	H	690	ALA
1	I	201	CYS
1	I	793	ARG
1	I	794	GLY
1	J	463	SER
1	J	722	ASN
2	2	306	THR
2	2	471	SER
2	2	814	PRO
2	2	820	TRP
2	2	1223	ARG
3	4	397	PRO
1	A	187	VAL
1	B	234	PRO
1	B	685	PRO
1	B	1116	PRO
1	D	880	LEU
1	C	351	PRO
1	C	438	PRO
1	C	1025	ASN
1	E	353	GLN
1	F	234	PRO
1	G	1022	PRO

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Mol	Chain	Res	Type
1	H	209	ASN
1	I	255	GLU
1	J	277	VAL
1	J	375	ASN
1	J	894	THR
2	2	1060	PHE
1	A	219	LEU
1	A	1159	GLY
1	D	277	VAL
1	C	187	VAL
1	C	554	SER
1	C	1116	PRO
1	E	354	THR
1	E	539	GLY
1	F	37	THR
1	F	685	PRO
1	H	111	ILE
1	H	203	SER
1	I	922	GLY
1	J	156	ALA
1	J	220	ILE
1	J	596	PRO
2	2	1119	GLU
2	2	1122	PHE
3	4	684	LEU
1	A	172	PRO
1	E	438	PRO
1	E	842	ALA
1	F	1184	LEU
1	G	351	PRO
1	H	72	VAL
1	J	1022	PRO
2	2	1121	LEU
1	F	346	GLY
1	F	485	PRO
1	H	277	VAL
1	H	346	GLY
1	I	601	ILE
1	E	253	GLY
1	E	351	PRO
1	E	599	ILE
1	F	277	VAL

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Mol	Chain	Res	Type
2	2	1118	GLY
2	2	1214	GLY
1	B	59	GLY
1	B	825	GLY
1	E	462	ILE
1	F	483	VAL
1	D	1026	GLY
1	E	221	GLY
1	F	1079	GLY
1	H	220	ILE
1	I	1076	VAL
1	J	1035	GLY
1	B	118	VAL
1	F	1022	PRO
1	G	604	PRO
1	H	1022	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	905/1030 (88%)	785 (87%)	120 (13%)	4 22
1	B	978/1030 (95%)	851 (87%)	127 (13%)	4 23
1	C	905/1030 (88%)	792 (88%)	113 (12%)	4 24
1	D	978/1030 (95%)	849 (87%)	129 (13%)	4 22
1	E	880/1030 (85%)	767 (87%)	113 (13%)	4 23
1	F	978/1030 (95%)	850 (87%)	128 (13%)	4 23
1	G	906/1030 (88%)	768 (85%)	138 (15%)	3 18
1	H	979/1030 (95%)	862 (88%)	117 (12%)	5 25
1	I	904/1030 (88%)	777 (86%)	127 (14%)	3 21
1	J	978/1030 (95%)	862 (88%)	116 (12%)	5 26
2	2	1066/1091 (98%)	900 (84%)	166 (16%)	2 17

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	4	502/626 (80%)	409 (82%)	93 (18%)	1 11
All	All	10959/12017 (91%)	9472 (86%)	1487 (14%)	7 22

All (1487) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	160	PHE
1	A	161	LEU
1	A	168	ARG
1	A	177	LYS
1	A	179	LEU
1	A	182	TYR
1	A	184	ASP
1	A	189	ASN
1	A	194	ILE
1	A	198	THR
1	A	200	LEU
1	A	215	LEU
1	A	218	GLU
1	A	219	LEU
1	A	230	GLN
1	A	237	GLU
1	A	252	LEU
1	A	263	LEU
1	A	276	THR
1	A	298	LEU
1	A	299	LEU
1	A	306	LEU
1	A	316	THR
1	A	331	ARG
1	A	339	LEU
1	A	352	THR
1	A	354	THR
1	A	370	ARG
1	A	371	LEU
1	A	385	VAL
1	A	403	ILE
1	A	406	LEU
1	A	412	ASP
1	A	427	LEU
1	A	429	ASN
1	A	437	ARG

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Mol	Chain	Res	Type
1	A	439	THR
1	A	450	ASP
1	A	451	LEU
1	A	461	ASN
1	A	474	GLU
1	A	479	LEU
1	A	480	LEU
1	A	483	VAL
1	A	484	THR
1	A	493	LEU
1	A	502	GLU
1	A	507	THR
1	A	515	LEU
1	A	516	ARG
1	A	519	GLN
1	A	531	CYS
1	A	540	LEU
1	A	541	VAL
1	A	555	GLN
1	A	558	THR
1	A	569	LEU
1	A	591	ASN
1	A	597	GLU
1	A	626	LEU
1	A	632	ASN
1	A	642	PHE
1	A	712	VAL
1	A	720	THR
1	A	725	THR
1	A	726	ARG
1	A	734	THR
1	A	740	LYS
1	A	741	THR
1	A	742	MET
1	A	750	MET
1	A	762	THR
1	A	769	VAL
1	A	772	THR
1	A	776	GLN
1	A	779	VAL
1	A	784	LEU
1	A	798	VAL

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Mol	Chain	Res	Type
1	A	813	VAL
1	A	823	LEU
1	A	860	THR
1	A	862	GLU
1	A	874	CYS
1	A	881	VAL
1	A	883	ARG
1	A	894	THR
1	A	914	ASP
1	A	916	ASP
1	A	919	LEU
1	A	920	LEU
1	A	930	ARG
1	A	939	LEU
1	A	945	VAL
1	A	950	VAL
1	A	972	MET
1	A	982	LEU
1	A	985	VAL
1	A	989	THR
1	A	992	ASN
1	A	996	MET
1	A	1012	ARG
1	A	1016	ARG
1	A	1019	THR
1	A	1021	VAL
1	A	1030	GLN
1	A	1037	VAL
1	A	1044	ASP
1	A	1047	TYR
1	A	1052	LEU
1	A	1056	VAL
1	A	1094	LEU
1	A	1102	GLU
1	A	1129	THR
1	A	1131	ARG
1	A	1132	ARG
1	A	1153	SER
1	A	1186	ASN
1	A	1187	ARG
1	A	1189	THR
1	A	1194	LEU

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Mol	Chain	Res	Type
1	B	18	ASP
1	B	20	ASN
1	B	22	VAL
1	B	30	THR
1	B	36	THR
1	B	48	GLN
1	B	50	GLN
1	B	54	VAL
1	B	73	ASN
1	B	75	ASP
1	B	83	THR
1	B	94	THR
1	B	100	VAL
1	B	107	LYS
1	B	121	VAL
1	B	122	CYS
1	B	126	PHE
1	B	137	ARG
1	B	159	SER
1	B	160	PHE
1	B	161	LEU
1	B	162	THR
1	B	206	LEU
1	B	208	ASP
1	B	220	ILE
1	B	226	MET
1	B	227	GLN
1	B	232	THR
1	B	247	THR
1	B	255	GLU
1	B	257	ARG
1	B	270	SER
1	B	271	VAL
1	B	298	LEU
1	B	299	LEU
1	B	324	ILE
1	B	349	VAL
1	B	352	THR
1	B	356	ASN
1	B	373	ARG
1	B	381	VAL
1	B	385	VAL

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Mol	Chain	Res	Type
1	B	392	ASP
1	B	407	ARG
1	B	428	LEU
1	B	434	ILE
1	B	440	ILE
1	B	442	CYS
1	B	449	GLU
1	B	453	LEU
1	B	459	LEU
1	B	466	THR
1	B	473	VAL
1	B	479	LEU
1	B	487	VAL
1	B	493	LEU
1	B	498	THR
1	B	500	ILE
1	B	541	VAL
1	B	543	THR
1	B	555	GLN
1	B	599	ILE
1	B	603	VAL
1	B	606	MET
1	B	620	VAL
1	B	645	HIS
1	B	679	TRP
1	B	686	ARG
1	B	688	THR
1	B	702	SER
1	B	717	MET
1	B	725	THR
1	B	729	MET
1	B	740	LYS
1	B	741	THR
1	B	742	MET
1	B	743	THR
1	B	753	THR
1	B	758	LEU
1	B	764	THR
1	B	773	ARG
1	B	788	VAL
1	B	792	GLN
1	B	803	THR

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Mol	Chain	Res	Type
1	B	813	VAL
1	B	824	CYS
1	B	830	ASN
1	B	835	HIS
1	B	860	THR
1	B	880	LEU
1	B	892	ASP
1	B	906	ASN
1	B	909	PHE
1	B	915	LEU
1	B	934	LEU
1	B	945	VAL
1	B	946	VAL
1	B	950	VAL
1	B	984	LEU
1	B	987	THR
1	B	996	MET
1	B	1006	ARG
1	B	1010	ASN
1	B	1011	VAL
1	B	1021	VAL
1	B	1031	LEU
1	B	1032	ILE
1	B	1037	VAL
1	B	1044	ASP
1	B	1047	TYR
1	B	1058	VAL
1	B	1063	VAL
1	B	1066	MET
1	B	1075	LEU
1	B	1084	THR
1	B	1085	LEU
1	B	1086	HIS
1	B	1089	ASP
1	B	1100	LEU
1	B	1104	LEU
1	B	1156	THR
1	B	1167	LEU
1	B	1184	LEU
1	B	1194	LEU
1	B	1195	TYR
1	B	1207	ILE

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Mol	Chain	Res	Type
1	B	1214	THR
1	D	22	VAL
1	D	26	ASP
1	D	30	THR
1	D	41	GLN
1	D	48	GLN
1	D	72	VAL
1	D	75	ASP
1	D	81	ARG
1	D	83	THR
1	D	112	VAL
1	D	117	TYR
1	D	118	VAL
1	D	123	ASN
1	D	129	MET
1	D	137	ARG
1	D	161	LEU
1	D	171	SER
1	D	197	ASP
1	D	202	THR
1	D	206	LEU
1	D	219	LEU
1	D	220	ILE
1	D	224	TRP
1	D	226	MET
1	D	231	MET
1	D	246	MET
1	D	255	GLU
1	D	257	ARG
1	D	270	SER
1	D	283	ILE
1	D	284	ASP
1	D	291	LEU
1	D	297	VAL
1	D	298	LEU
1	D	299	LEU
1	D	306	LEU
1	D	322	THR
1	D	328	ARG
1	D	333	PHE
1	D	336	ARG
1	D	339	LEU

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Mol	Chain	Res	Type
1	D	353	GLN
1	D	366	ASP
1	D	370	ARG
1	D	371	LEU
1	D	394	LEU
1	D	403	ILE
1	D	407	ARG
1	D	418	GLN
1	D	434	ILE
1	D	442	CYS
1	D	444	TRP
1	D	448	SER
1	D	453	LEU
1	D	462	ILE
1	D	466	THR
1	D	472	LEU
1	D	479	LEU
1	D	487	VAL
1	D	493	LEU
1	D	531	CYS
1	D	541	VAL
1	D	543	THR
1	D	546	SER
1	D	552	ASP
1	D	555	GLN
1	D	563	MET
1	D	603	VAL
1	D	613	SER
1	D	635	GLN
1	D	639	LEU
1	D	673	ASN
1	D	684	LEU
1	D	686	ARG
1	D	687	LEU
1	D	688	THR
1	D	692	THR
1	D	702	SER
1	D	721	VAL
1	D	725	THR
1	D	740	LYS
1	D	741	THR
1	D	743	THR

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Mol	Chain	Res	Type
1	D	753	THR
1	D	755	LEU
1	D	756	SER
1	D	758	LEU
1	D	764	THR
1	D	776	GLN
1	D	784	LEU
1	D	795	ASP
1	D	803	THR
1	D	813	VAL
1	D	834	SER
1	D	853	ARG
1	D	860	THR
1	D	890	GLN
1	D	892	ASP
1	D	945	VAL
1	D	950	VAL
1	D	962	GLN
1	D	985	VAL
1	D	986	GLN
1	D	987	THR
1	D	989	THR
1	D	996	MET
1	D	1005	VAL
1	D	1006	ARG
1	D	1012	ARG
1	D	1037	VAL
1	D	1044	ASP
1	D	1050	ASP
1	D	1056	VAL
1	D	1058	VAL
1	D	1063	VAL
1	D	1078	LEU
1	D	1084	THR
1	D	1085	LEU
1	D	1100	LEU
1	D	1105	SER
1	D	1125	TYR
1	D	1132	ARG
1	D	1133	VAL
1	D	1138	THR
1	D	1156	THR

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Mol	Chain	Res	Type
1	D	1160	GLU
1	D	1190	LEU
1	D	1205	ASP
1	D	1211	ARG
1	C	157	ILE
1	C	161	LEU
1	C	171	SER
1	C	173	ASP
1	C	175	SER
1	C	198	THR
1	C	200	LEU
1	C	214	HIS
1	C	215	LEU
1	C	219	LEU
1	C	220	ILE
1	C	223	THR
1	C	230	GLN
1	C	231	MET
1	C	252	LEU
1	C	259	LEU
1	C	261	VAL
1	C	263	LEU
1	C	278	LEU
1	C	279	SER
1	C	283	ILE
1	C	302	LEU
1	C	315	SER
1	C	316	THR
1	C	321	VAL
1	C	339	LEU
1	C	347	ARG
1	C	358	GLN
1	C	403	ILE
1	C	409	MET
1	C	412	ASP
1	C	426	ASN
1	C	429	ASN
1	C	436	LEU
1	C	439	THR
1	C	442	CYS
1	C	456	VAL
1	C	466	THR

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Mol	Chain	Res	Type
1	C	479	LEU
1	C	480	LEU
1	C	486	LEU
1	C	487	VAL
1	C	488	LEU
1	C	499	THR
1	C	511	ILE
1	C	514	ILE
1	C	521	MET
1	C	534	SER
1	C	541	VAL
1	C	545	LEU
1	C	548	ASP
1	C	591	ASN
1	C	593	LEU
1	C	597	GLU
1	C	610	THR
1	C	652	GLN
1	C	661	THR
1	C	674	ARG
1	C	684	LEU
1	C	699	ASN
1	C	710	ARG
1	C	714	SER
1	C	716	ASN
1	C	734	THR
1	C	737	ARG
1	C	741	THR
1	C	748	GLN
1	C	788	VAL
1	C	799	ASP
1	C	801	ARG
1	C	803	THR
1	C	822	MET
1	C	839	LYS
1	C	860	THR
1	C	879	PHE
1	C	883	ARG
1	C	885	LEU
1	C	894	THR
1	C	902	MET
1	C	915	LEU

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Mol	Chain	Res	Type
1	C	930	ARG
1	C	945	VAL
1	C	950	VAL
1	C	961	LEU
1	C	967	THR
1	C	971	GLU
1	C	982	LEU
1	C	987	THR
1	C	1012	ARG
1	C	1019	THR
1	C	1021	VAL
1	C	1025	ASN
1	C	1031	LEU
1	C	1047	TYR
1	C	1052	LEU
1	C	1056	VAL
1	C	1061	ASP
1	C	1073	ARG
1	C	1077	GLU
1	C	1078	LEU
1	C	1094	LEU
1	C	1128	ILE
1	C	1146	LEU
1	C	1147	PHE
1	C	1153	SER
1	C	1178	ARG
1	C	1179	VAL
1	C	1194	LEU
1	C	1203	THR
1	C	1204	LEU
1	C	1205	ASP
1	C	1210	VAL
1	C	1211	ARG
1	E	177	LYS
1	E	184	ASP
1	E	197	ASP
1	E	200	LEU
1	E	206	LEU
1	E	215	LEU
1	E	220	ILE
1	E	227	GLN
1	E	232	THR

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Mol	Chain	Res	Type
1	E	244	VAL
1	E	252	LEU
1	E	259	LEU
1	E	260	GLU
1	E	261	VAL
1	E	276	THR
1	E	302	LEU
1	E	325	THR
1	E	331	ARG
1	E	339	LEU
1	E	340	LEU
1	E	350	LEU
1	E	354	THR
1	E	361	SER
1	E	362	THR
1	E	370	ARG
1	E	406	LEU
1	E	418	GLN
1	E	426	ASN
1	E	428	LEU
1	E	429	ASN
1	E	441	LEU
1	E	450	ASP
1	E	451	LEU
1	E	452	ARG
1	E	476	LEU
1	E	479	LEU
1	E	480	LEU
1	E	488	LEU
1	E	493	LEU
1	E	514	ILE
1	E	515	LEU
1	E	517	LEU
1	E	525	TYR
1	E	534	SER
1	E	541	VAL
1	E	547	GLU
1	E	552	ASP
1	E	557	ILE
1	E	562	SER
1	E	569	LEU
1	E	576	THR

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Mol	Chain	Res	Type
1	E	593	LEU
1	E	610	THR
1	E	626	LEU
1	E	630	LEU
1	E	632	ASN
1	E	652	GLN
1	E	656	PHE
1	E	661	THR
1	E	684	LEU
1	E	686	ARG
1	E	687	LEU
1	E	693	TYR
1	E	714	SER
1	E	725	THR
1	E	741	THR
1	E	752	PRO
1	E	772	THR
1	E	773	ARG
1	E	774	LEU
1	E	784	LEU
1	E	793	ARG
1	E	811	LEU
1	E	813	VAL
1	E	844	LEU
1	E	866	CYS
1	E	883	ARG
1	E	915	LEU
1	E	919	LEU
1	E	920	LEU
1	E	930	ARG
1	E	939	LEU
1	E	940	GLN
1	E	945	VAL
1	E	949	HIS
1	E	977	VAL
1	E	982	LEU
1	E	985	VAL
1	E	996	MET
1	E	999	VAL
1	E	1019	THR
1	E	1031	LEU
1	E	1037	VAL

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Mol	Chain	Res	Type
1	E	1047	TYR
1	E	1052	LEU
1	E	1058	VAL
1	E	1063	VAL
1	E	1094	LEU
1	E	1100	LEU
1	E	1102	GLU
1	E	1119	ILE
1	E	1132	ARG
1	E	1141	ASN
1	E	1150	ASN
1	E	1153	SER
1	E	1156	THR
1	E	1160	GLU
1	E	1161	ASN
1	E	1178	ARG
1	E	1189	THR
1	E	1203	THR
1	E	1204	LEU
1	E	1208	MET
1	F	20	ASN
1	F	25	LYS
1	F	31	ASN
1	F	41	GLN
1	F	47	ASN
1	F	49	GLN
1	F	50	GLN
1	F	83	THR
1	F	109	THR
1	F	118	VAL
1	F	128	THR
1	F	141	ARG
1	F	160	PHE
1	F	165	ASP
1	F	166	ASP
1	F	193	LEU
1	F	194	ILE
1	F	214	HIS
1	F	215	LEU
1	F	219	LEU
1	F	245	CYS
1	F	246	MET

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Mol	Chain	Res	Type
1	F	252	LEU
1	F	255	GLU
1	F	257	ARG
1	F	298	LEU
1	F	302	LEU
1	F	319	SER
1	F	326	SER
1	F	334	GLU
1	F	342	LEU
1	F	349	VAL
1	F	385	VAL
1	F	399	ARG
1	F	401	THR
1	F	403	ILE
1	F	434	ILE
1	F	436	LEU
1	F	450	ASP
1	F	453	LEU
1	F	454	GLN
1	F	461	ASN
1	F	472	LEU
1	F	476	LEU
1	F	483	VAL
1	F	487	VAL
1	F	493	LEU
1	F	498	THR
1	F	524	ASP
1	F	531	CYS
1	F	538	ASN
1	F	541	VAL
1	F	543	THR
1	F	555	GLN
1	F	560	LEU
1	F	563	MET
1	F	565	LYS
1	F	614	GLN
1	F	620	VAL
1	F	639	LEU
1	F	658	TYR
1	F	668	LEU
1	F	674	ARG
1	F	684	LEU

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Mol	Chain	Res	Type
1	F	702	SER
1	F	715	VAL
1	F	718	THR
1	F	720	THR
1	F	721	VAL
1	F	723	ASP
1	F	725	THR
1	F	727	ARG
1	F	729	MET
1	F	743	THR
1	F	748	GLN
1	F	755	LEU
1	F	758	LEU
1	F	763	VAL
1	F	764	THR
1	F	772	THR
1	F	773	ARG
1	F	779	VAL
1	F	781	THR
1	F	784	LEU
1	F	792	GLN
1	F	801	ARG
1	F	803	THR
1	F	814	ASP
1	F	824	CYS
1	F	848	ASN
1	F	861	ARG
1	F	906	ASN
1	F	907	ASP
1	F	919	LEU
1	F	920	LEU
1	F	928	ASP
1	F	931	ILE
1	F	933	ASP
1	F	939	LEU
1	F	950	VAL
1	F	967	THR
1	F	981	ASN
1	F	985	VAL
1	F	987	THR
1	F	992	ASN
1	F	994	SER

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Mol	Chain	Res	Type
1	F	1011	VAL
1	F	1014	VAL
1	F	1021	VAL
1	F	1028	GLU
1	F	1037	VAL
1	F	1044	ASP
1	F	1047	TYR
1	F	1056	VAL
1	F	1058	VAL
1	F	1063	VAL
1	F	1066	MET
1	F	1084	THR
1	F	1085	LEU
1	F	1091	GLN
1	F	1096	GLU
1	F	1132	ARG
1	F	1133	VAL
1	F	1144	ASP
1	F	1190	LEU
1	F	1195	TYR
1	F	1203	THR
1	F	1207	ILE
1	G	147	LEU
1	G	150	THR
1	G	152	MET
1	G	154	ASN
1	G	157	ILE
1	G	159	SER
1	G	161	LEU
1	G	166	ASP
1	G	200	LEU
1	G	206	LEU
1	G	215	LEU
1	G	216	THR
1	G	240	VAL
1	G	241	ASN
1	G	242	ARG
1	G	244	VAL
1	G	247	THR
1	G	252	LEU
1	G	254	ASP
1	G	257	ARG

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Mol	Chain	Res	Type
1	G	259	LEU
1	G	261	VAL
1	G	272	HIS
1	G	276	THR
1	G	283	ILE
1	G	287	GLN
1	G	306	LEU
1	G	314	SER
1	G	316	THR
1	G	321	VAL
1	G	339	LEU
1	G	347	ARG
1	G	353	GLN
1	G	354	THR
1	G	355	LYS
1	G	370	ARG
1	G	371	LEU
1	G	376	LEU
1	G	391	CYS
1	G	401	THR
1	G	406	LEU
1	G	427	LEU
1	G	428	LEU
1	G	429	ASN
1	G	431	THR
1	G	432	ILE
1	G	439	THR
1	G	442	CYS
1	G	450	ASP
1	G	476	LEU
1	G	480	LEU
1	G	493	LEU
1	G	515	LEU
1	G	517	LEU
1	G	518	LEU
1	G	521	MET
1	G	534	SER
1	G	541	VAL
1	G	557	ILE
1	G	565	LYS
1	G	575	MET
1	G	576	THR

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Mol	Chain	Res	Type
1	G	583	VAL
1	G	593	LEU
1	G	595	GLN
1	G	601	ILE
1	G	609	THR
1	G	610	THR
1	G	626	LEU
1	G	654	SER
1	G	655	GLU
1	G	661	THR
1	G	674	ARG
1	G	686	ARG
1	G	694	ASP
1	G	697	MET
1	G	714	SER
1	G	716	ASN
1	G	721	VAL
1	G	725	THR
1	G	741	THR
1	G	755	LEU
1	G	762	THR
1	G	763	VAL
1	G	769	VAL
1	G	771	PHE
1	G	788	VAL
1	G	792	GLN
1	G	799	ASP
1	G	800	ILE
1	G	803	THR
1	G	813	VAL
1	G	824	CYS
1	G	844	LEU
1	G	853	ARG
1	G	883	ARG
1	G	889	ARG
1	G	902	MET
1	G	913	PHE
1	G	915	LEU
1	G	920	LEU
1	G	931	ILE
1	G	939	LEU
1	G	945	VAL

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Mol	Chain	Res	Type
1	G	946	VAL
1	G	948	GLU
1	G	950	VAL
1	G	982	LEU
1	G	987	THR
1	G	992	ASN
1	G	1004	PHE
1	G	1005	VAL
1	G	1010	ASN
1	G	1012	ARG
1	G	1019	THR
1	G	1023	ARG
1	G	1031	LEU
1	G	1037	VAL
1	G	1047	TYR
1	G	1052	LEU
1	G	1056	VAL
1	G	1058	VAL
1	G	1063	VAL
1	G	1075	LEU
1	G	1094	LEU
1	G	1100	LEU
1	G	1108	ASN
1	G	1131	ARG
1	G	1132	ARG
1	G	1149	THR
1	G	1150	ASN
1	G	1153	SER
1	G	1155	ASP
1	G	1156	THR
1	G	1160	GLU
1	G	1179	VAL
1	G	1184	LEU
1	G	1194	LEU
1	H	20	ASN
1	H	30	THR
1	H	41	GLN
1	H	81	ARG
1	H	83	THR
1	H	94	THR
1	H	118	VAL
1	H	126	PHE

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Mol	Chain	Res	Type
1	H	128	THR
1	H	160	PHE
1	H	165	ASP
1	H	196	GLU
1	H	206	LEU
1	H	212	SER
1	H	217	LYS
1	H	220	ILE
1	H	223	THR
1	H	228	MET
1	H	231	MET
1	H	232	THR
1	H	247	THR
1	H	257	ARG
1	H	271	VAL
1	H	280	ARG
1	H	285	ASN
1	H	322	THR
1	H	324	ILE
1	H	325	THR
1	H	352	THR
1	H	381	VAL
1	H	385	VAL
1	H	390	LEU
1	H	401	THR
1	H	403	ILE
1	H	440	ILE
1	H	455	GLN
1	H	463	SER
1	H	480	LEU
1	H	484	THR
1	H	487	VAL
1	H	488	LEU
1	H	493	LEU
1	H	498	THR
1	H	500	ILE
1	H	531	CYS
1	H	534	SER
1	H	541	VAL
1	H	543	THR
1	H	548	ASP
1	H	560	LEU

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Mol	Chain	Res	Type
1	H	562	SER
1	H	593	LEU
1	H	606	MET
1	H	614	GLN
1	H	620	VAL
1	H	635	GLN
1	H	660	SER
1	H	662	LEU
1	H	673	ASN
1	H	674	ARG
1	H	684	LEU
1	H	686	ARG
1	H	687	LEU
1	H	702	SER
1	H	712	VAL
1	H	715	VAL
1	H	721	VAL
1	H	741	THR
1	H	764	THR
1	H	776	GLN
1	H	777	ASN
1	H	779	VAL
1	H	788	VAL
1	H	795	ASP
1	H	824	CYS
1	H	826	GLN
1	H	869	SER
1	H	876	ASP
1	H	906	ASN
1	H	914	ASP
1	H	919	LEU
1	H	930	ARG
1	H	931	ILE
1	H	945	VAL
1	H	947	ARG
1	H	985	VAL
1	H	987	THR
1	H	994	SER
1	H	1011	VAL
1	H	1012	ARG
1	H	1014	VAL
1	H	1016	ARG

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Mol	Chain	Res	Type
1	H	1017	PHE
1	H	1019	THR
1	H	1025	ASN
1	H	1027	LEU
1	H	1033	ASP
1	H	1037	VAL
1	H	1044	ASP
1	H	1055	SER
1	H	1058	VAL
1	H	1060	ARG
1	H	1063	VAL
1	H	1078	LEU
1	H	1084	THR
1	H	1085	LEU
1	H	1104	LEU
1	H	1133	VAL
1	H	1154	ILE
1	H	1156	THR
1	H	1178	ARG
1	H	1190	LEU
1	H	1195	TYR
1	H	1196	ARG
1	H	1200	THR
1	H	1203	THR
1	H	1214	THR
1	I	150	THR
1	I	152	MET
1	I	165	ASP
1	I	168	ARG
1	I	170	LEU
1	I	171	SER
1	I	173	ASP
1	I	179	LEU
1	I	194	ILE
1	I	200	LEU
1	I	206	LEU
1	I	219	LEU
1	I	223	THR
1	I	246	MET
1	I	247	THR
1	I	252	LEU
1	I	257	ARG

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Mol	Chain	Res	Type
1	I	261	VAL
1	I	277	VAL
1	I	294	ARG
1	I	298	LEU
1	I	299	LEU
1	I	316	THR
1	I	321	VAL
1	I	325	THR
1	I	354	THR
1	I	356	ASN
1	I	362	THR
1	I	366	ASP
1	I	370	ARG
1	I	373	ARG
1	I	385	VAL
1	I	391	CYS
1	I	392	ASP
1	I	397	HIS
1	I	401	THR
1	I	406	LEU
1	I	423	CYS
1	I	429	ASN
1	I	431	THR
1	I	442	CYS
1	I	451	LEU
1	I	454	GLN
1	I	462	ILE
1	I	465	ASN
1	I	476	LEU
1	I	480	LEU
1	I	487	VAL
1	I	488	LEU
1	I	489	ASP
1	I	493	LEU
1	I	514	ILE
1	I	517	LEU
1	I	519	GLN
1	I	524	ASP
1	I	525	TYR
1	I	534	SER
1	I	543	THR
1	I	545	LEU

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Mol	Chain	Res	Type
1	I	570	THR
1	I	576	THR
1	I	583	VAL
1	I	591	ASN
1	I	593	LEU
1	I	626	LEU
1	I	639	LEU
1	I	661	THR
1	I	667	ASN
1	I	679	TRP
1	I	686	ARG
1	I	693	TYR
1	I	697	MET
1	I	698	SER
1	I	710	ARG
1	I	712	VAL
1	I	720	THR
1	I	722	ASN
1	I	724	LEU
1	I	725	THR
1	I	734	THR
1	I	741	THR
1	I	762	THR
1	I	769	VAL
1	I	788	VAL
1	I	806	THR
1	I	813	VAL
1	I	814	ASP
1	I	827	THR
1	I	830	ASN
1	I	831	LEU
1	I	858	VAL
1	I	876	ASP
1	I	883	ARG
1	I	895	SER
1	I	902	MET
1	I	915	LEU
1	I	916	ASP
1	I	919	LEU
1	I	925	LEU
1	I	939	LEU
1	I	945	VAL

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Mol	Chain	Res	Type
1	I	950	VAL
1	I	969	MET
1	I	981	ASN
1	I	982	LEU
1	I	985	VAL
1	I	1005	VAL
1	I	1012	ARG
1	I	1019	THR
1	I	1021	VAL
1	I	1028	GLU
1	I	1047	TYR
1	I	1052	LEU
1	I	1058	VAL
1	I	1072	THR
1	I	1078	LEU
1	I	1094	LEU
1	I	1100	LEU
1	I	1138	THR
1	I	1150	ASN
1	I	1153	SER
1	I	1160	GLU
1	I	1161	ASN
1	I	1179	VAL
1	I	1194	LEU
1	I	1196	ARG
1	I	1204	LEU
1	J	18	ASP
1	J	19	THR
1	J	30	THR
1	J	48	GLN
1	J	54	VAL
1	J	58	SER
1	J	63	VAL
1	J	74	ASN
1	J	81	ARG
1	J	113	ASN
1	J	117	TYR
1	J	119	CYS
1	J	121	VAL
1	J	122	CYS
1	J	125	ARG
1	J	136	LEU

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Mol	Chain	Res	Type
1	J	139	ASP
1	J	141	ARG
1	J	160	PHE
1	J	166	ASP
1	J	171	SER
1	J	209	ASN
1	J	218	GLU
1	J	219	LEU
1	J	220	ILE
1	J	232	THR
1	J	257	ARG
1	J	271	VAL
1	J	280	ARG
1	J	298	LEU
1	J	324	ILE
1	J	328	ARG
1	J	347	ARG
1	J	355	LYS
1	J	376	LEU
1	J	390	LEU
1	J	400	GLU
1	J	401	THR
1	J	403	ILE
1	J	425	ASN
1	J	428	LEU
1	J	453	LEU
1	J	465	ASN
1	J	466	THR
1	J	487	VAL
1	J	488	LEU
1	J	497	ILE
1	J	498	THR
1	J	530	LYS
1	J	531	CYS
1	J	538	ASN
1	J	541	VAL
1	J	543	THR
1	J	547	GLU
1	J	548	ASP
1	J	575	MET
1	J	593	LEU
1	J	595	GLN

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Mol	Chain	Res	Type
1	J	603	VAL
1	J	634	GLN
1	J	639	LEU
1	J	668	LEU
1	J	684	LEU
1	J	687	LEU
1	J	699	ASN
1	J	721	VAL
1	J	741	THR
1	J	743	THR
1	J	758	LEU
1	J	764	THR
1	J	773	ARG
1	J	783	VAL
1	J	788	VAL
1	J	800	ILE
1	J	806	THR
1	J	811	LEU
1	J	824	CYS
1	J	880	LEU
1	J	892	ASP
1	J	914	ASP
1	J	916	ASP
1	J	919	LEU
1	J	921	ASP
1	J	945	VAL
1	J	946	VAL
1	J	950	VAL
1	J	979	ARG
1	J	981	ASN
1	J	987	THR
1	J	1012	ARG
1	J	1014	VAL
1	J	1021	VAL
1	J	1023	ARG
1	J	1028	GLU
1	J	1037	VAL
1	J	1050	ASP
1	J	1054	VAL
1	J	1060	ARG
1	J	1063	VAL
1	J	1084	THR

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Mol	Chain	Res	Type
1	J	1085	LEU
1	J	1086	HIS
1	J	1093	SER
1	J	1104	LEU
1	J	1131	ARG
1	J	1132	ARG
1	J	1138	THR
1	J	1141	ASN
1	J	1146	LEU
1	J	1154	ILE
1	J	1183	ASP
1	J	1184	LEU
1	J	1198	ASN
1	J	1201	TYR
1	J	1211	ARG
1	J	1214	THR
2	2	10	GLN
2	2	12	LEU
2	2	19	LEU
2	2	42	ARG
2	2	45	THR
2	2	46	TYR
2	2	49	LEU
2	2	52	ILE
2	2	58	VAL
2	2	66	HIS
2	2	68	LEU
2	2	72	LYS
2	2	74	PHE
2	2	77	ASN
2	2	78	GLN
2	2	84	ILE
2	2	91	ASP
2	2	95	VAL
2	2	98	SER
2	2	100	ILE
2	2	103	LEU
2	2	115	PHE
2	2	119	THR
2	2	125	THR
2	2	126	THR
2	2	127	LEU

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Mol	Chain	Res	Type
2	2	128	ARG
2	2	154	ILE
2	2	173	LEU
2	2	181	ARG
2	2	182	ASP
2	2	214	SER
2	2	219	TRP
2	2	228	VAL
2	2	233	TYR
2	2	248	THR
2	2	253	THR
2	2	263	LEU
2	2	268	SER
2	2	269	HIS
2	2	281	VAL
2	2	287	LEU
2	2	293	ASN
2	2	305	TRP
2	2	310	SER
2	2	329	ARG
2	2	338	LEU
2	2	367	SER
2	2	379	SER
2	2	388	THR
2	2	389	MET
2	2	424	VAL
2	2	433	ASP
2	2	436	ARG
2	2	440	ARG
2	2	442	ILE
2	2	444	GLN
2	2	445	ASP
2	2	452	LEU
2	2	462	VAL
2	2	463	THR
2	2	465	ARG
2	2	472	LEU
2	2	473	LYS
2	2	478	VAL
2	2	486	TYR
2	2	496	LYS
2	2	505	ARG

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Mol	Chain	Res	Type
2	2	510	LEU
2	2	515	ILE
2	2	519	VAL
2	2	521	MET
2	2	538	ASN
2	2	540	ILE
2	2	544	ILE
2	2	550	LEU
2	2	568	VAL
2	2	570	THR
2	2	584	PRO
2	2	589	ASN
2	2	600	THR
2	2	604	PHE
2	2	626	MET
2	2	633	VAL
2	2	640	VAL
2	2	648	SER
2	2	652	THR
2	2	659	ASP
2	2	668	SER
2	2	669	VAL
2	2	671	ASP
2	2	674	SER
2	2	675	SER
2	2	677	ASN
2	2	679	PHE
2	2	683	THR
2	2	686	PHE
2	2	702	SER
2	2	731	ILE
2	2	740	ASP
2	2	741	ASP
2	2	745	LEU
2	2	748	HIS
2	2	776	ASN
2	2	781	TRP
2	2	788	LEU
2	2	789	LYS
2	2	793	LEU
2	2	796	CYS
2	2	801	THR

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Mol	Chain	Res	Type
2	2	804	HIS
2	2	823	LEU
2	2	833	ASN
2	2	835	VAL
2	2	839	LEU
2	2	845	LEU
2	2	853	CYS
2	2	857	ARG
2	2	861	THR
2	2	864	ARG
2	2	866	GLN
2	2	886	LEU
2	2	906	MET
2	2	910	LEU
2	2	913	TRP
2	2	914	ARG
2	2	928	LEU
2	2	934	VAL
2	2	974	ILE
2	2	975	ASN
2	2	976	GLN
2	2	981	LEU
2	2	985	LEU
2	2	986	PHE
2	2	991	LEU
2	2	992	LYS
2	2	1005	LEU
2	2	1012	ASN
2	2	1017	VAL
2	2	1020	LEU
2	2	1033	ASP
2	2	1035	GLU
2	2	1042	VAL
2	2	1049	LEU
2	2	1060	PHE
2	2	1074	LEU
2	2	1078	ILE
2	2	1105	CYS
2	2	1113	THR
2	2	1122	PHE
2	2	1123	VAL
2	2	1125	ARG

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Mol	Chain	Res	Type
2	2	1130	LEU
2	2	1131	ASP
2	2	1153	ILE
2	2	1173	ILE
2	2	1177	ASN
2	2	1183	ILE
2	2	1185	ARG
2	2	1187	VAL
2	2	1197	THR
2	2	1205	HIS
2	2	1227	ILE
2	2	1235	LEU
2	2	1244	VAL
2	2	1249	ARG
3	4	2	ILE
3	4	3	THR
3	4	6	VAL
3	4	9	THR
3	4	26	ARG
3	4	45	LEU
3	4	49	LEU
3	4	52	PHE
3	4	62	LEU
3	4	68	ILE
3	4	77	LEU
3	4	79	LEU
3	4	196	THR
3	4	201	LEU
3	4	202	LEU
3	4	210	ASP
3	4	211	VAL
3	4	215	ARG
3	4	222	SER
3	4	237	LEU
3	4	238	LEU
3	4	262	ASP
3	4	283	ASP
3	4	287	LEU
3	4	290	VAL
3	4	293	ILE
3	4	296	LEU
3	4	297	GLU

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Mol	Chain	Res	Type
3	4	305	ARG
3	4	312	LEU
3	4	313	THR
3	4	329	GLU
3	4	331	VAL
3	4	337	GLN
3	4	342	PHE
3	4	343	VAL
3	4	346	VAL
3	4	352	MET
3	4	362	ARG
3	4	371	HIS
3	4	380	ILE
3	4	381	THR
3	4	393	VAL
3	4	402	ASN
3	4	412	SER
3	4	417	ILE
3	4	419	ASP
3	4	427	ASP
3	4	428	LEU
3	4	432	GLU
3	4	437	ILE
3	4	440	ASP
3	4	442	LEU
3	4	461	LEU
3	4	465	LEU
3	4	479	ASP
3	4	495	LEU
3	4	504	GLN
3	4	508	LEU
3	4	512	THR
3	4	517	VAL
3	4	518	LEU
3	4	524	ASP
3	4	528	LEU
3	4	538	ARG
3	4	547	VAL
3	4	553	ARG
3	4	556	VAL
3	4	561	LEU
3	4	569	TYR

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Mol	Chain	Res	Type
3	4	579	THR
3	4	593	LEU
3	4	597	ARG
3	4	614	LYS
3	4	621	TRP
3	4	631	VAL
3	4	634	LEU
3	4	639	THR
3	4	640	ASP
3	4	650	ARG
3	4	651	ARG
3	4	653	ASP
3	4	655	ARG
3	4	663	ASP
3	4	665	LEU
3	4	674	LEU
3	4	681	ARG
3	4	683	PHE
3	4	685	LEU
3	4	690	VAL
3	4	691	VAL
3	4	712	LEU
3	4	715	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (258) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	189	ASN
1	A	230	GLN
1	A	287	GLN
1	A	308	ASN
1	A	426	ASN
1	A	429	ASN
1	A	519	GLN
1	A	559	HIS
1	A	591	ASN
1	A	595	GLN
1	A	645	HIS
1	A	748	GLN
1	A	749	HIS
1	A	776	GLN
1	A	848	ASN

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Mol	Chain	Res	Type
1	A	873	GLN
1	A	962	GLN
1	A	973	ASN
1	A	1091	GLN
1	A	1123	GLN
1	A	1150	ASN
1	A	1186	ASN
1	A	1198	ASN
1	B	48	GLN
1	B	50	GLN
1	B	73	ASN
1	B	135	HIS
1	B	209	ASN
1	B	241	ASN
1	B	287	GLN
1	B	312	ASN
1	B	356	ASN
1	B	358	GLN
1	B	410	HIS
1	B	538	ASN
1	B	617	HIS
1	B	649	ASN
1	B	663	GLN
1	B	713	ASN
1	B	854	ASN
1	B	875	GLN
1	B	906	ASN
1	B	958	HIS
1	B	973	ASN
1	B	976	ASN
1	B	1010	ASN
1	B	1150	ASN
1	D	41	GLN
1	D	73	ASN
1	D	155	ASN
1	D	287	GLN
1	D	289	ASN
1	D	312	ASN
1	D	454	GLN
1	D	458	HIS
1	D	617	HIS
1	D	649	ASN

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Mol	Chain	Res	Type
1	D	663	GLN
1	D	667	ASN
1	D	673	ASN
1	D	713	ASN
1	D	738	GLN
1	D	776	GLN
1	D	835	HIS
1	D	854	ASN
1	D	958	HIS
1	D	962	GLN
1	D	963	GLN
1	D	1091	GLN
1	C	230	GLN
1	C	308	ASN
1	C	425	ASN
1	C	426	ASN
1	C	429	ASN
1	C	523	ASN
1	C	614	GLN
1	C	649	ASN
1	C	652	GLN
1	C	663	GLN
1	C	748	GLN
1	C	749	HIS
1	C	776	GLN
1	C	804	HIS
1	C	854	ASN
1	C	1030	GLN
1	C	1091	GLN
1	C	1123	GLN
1	E	209	ASN
1	E	308	ASN
1	E	356	ASN
1	E	418	GLN
1	E	455	GLN
1	E	591	ASN
1	E	614	GLN
1	E	649	ASN
1	E	652	GLN
1	E	663	GLN
1	E	673	ASN
1	E	682	GLN

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Mol	Chain	Res	Type
1	E	748	GLN
1	E	749	HIS
1	E	835	HIS
1	E	962	GLN
1	E	973	ASN
1	E	1091	GLN
1	E	1108	ASN
1	F	41	GLN
1	F	47	ASN
1	F	50	GLN
1	F	120	ASN
1	F	135	HIS
1	F	230	GLN
1	F	356	ASN
1	F	410	HIS
1	F	418	GLN
1	F	421	ASN
1	F	538	ASN
1	F	555	GLN
1	F	559	HIS
1	F	608	GLN
1	F	649	ASN
1	F	663	GLN
1	F	673	ASN
1	F	792	GLN
1	F	826	GLN
1	F	830	ASN
1	F	836	HIS
1	F	854	ASN
1	F	956	HIS
1	F	973	ASN
1	F	1025	ASN
1	F	1091	GLN
1	F	1123	GLN
1	G	154	ASN
1	G	248	ASN
1	G	308	ASN
1	G	356	ASN
1	G	415	GLN
1	G	429	ASN
1	G	458	HIS
1	G	555	GLN

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Mol	Chain	Res	Type
1	G	595	GLN
1	G	614	GLN
1	G	617	HIS
1	G	649	ASN
1	G	667	ASN
1	G	716	ASN
1	G	722	ASN
1	G	777	ASN
1	G	792	GLN
1	G	873	GLN
1	G	962	GLN
1	G	992	ASN
1	G	1025	ASN
1	G	1123	GLN
1	G	1161	ASN
1	G	1198	ASN
1	H	41	GLN
1	H	104	GLN
1	H	113	ASN
1	H	135	HIS
1	H	140	HIS
1	H	312	ASN
1	H	410	HIS
1	H	421	ASN
1	H	461	ASN
1	H	614	GLN
1	H	617	HIS
1	H	634	GLN
1	H	663	GLN
1	H	713	ASN
1	H	826	GLN
1	H	854	ASN
1	H	873	GLN
1	H	1030	GLN
1	H	1053	GLN
1	H	1176	ASN
1	I	287	GLN
1	I	308	ASN
1	I	356	ASN
1	I	415	GLN
1	I	429	ASN
1	I	454	GLN

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Mol	Chain	Res	Type
1	I	506	GLN
1	I	519	GLN
1	I	523	ASN
1	I	629	GLN
1	I	632	ASN
1	I	663	GLN
1	I	667	ASN
1	I	673	ASN
1	I	722	ASN
1	I	782	ASN
1	I	826	GLN
1	I	873	GLN
1	I	875	GLN
1	I	962	GLN
1	I	1091	GLN
1	I	1123	GLN
1	J	20	ASN
1	J	31	ASN
1	J	48	GLN
1	J	50	GLN
1	J	61	ASN
1	J	227	GLN
1	J	230	GLN
1	J	287	GLN
1	J	312	ASN
1	J	425	ASN
1	J	454	GLN
1	J	465	ASN
1	J	591	ASN
1	J	629	GLN
1	J	634	GLN
1	J	649	ASN
1	J	663	GLN
1	J	713	ASN
1	J	768	GLN
1	J	782	ASN
1	J	792	GLN
1	J	854	ASN
1	J	973	ASN
1	J	1091	GLN
1	J	1123	GLN
1	J	1176	ASN

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Mol	Chain	Res	Type
2	2	51	HIS
2	2	77	ASN
2	2	78	GLN
2	2	145	GLN
2	2	227	ASN
2	2	246	HIS
2	2	293	ASN
2	2	351	HIS
2	2	362	GLN
2	2	386	GLN
2	2	538	ASN
2	2	541	GLN
2	2	556	ASN
2	2	697	HIS
2	2	732	GLN
2	2	734	ASN
2	2	738	GLN
2	2	815	GLN
2	2	866	GLN
2	2	932	HIS
2	2	976	GLN
2	2	1096	ASN
2	2	1177	ASN
2	2	1182	GLN
3	4	48	GLN
3	4	371	HIS
3	4	493	ASN
3	4	504	GLN
3	4	545	HIS
3	4	548	ASN
3	4	562	GLN
3	4	664	GLN
3	4	692	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

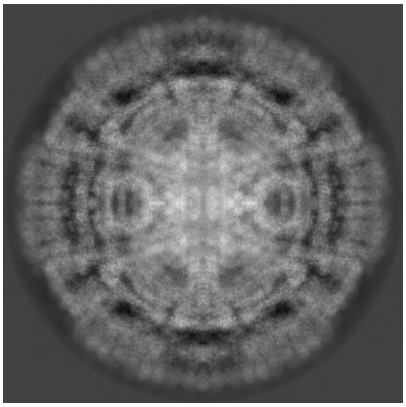
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-6968. These allow visual inspection of the internal detail of the map and identification of artifacts.

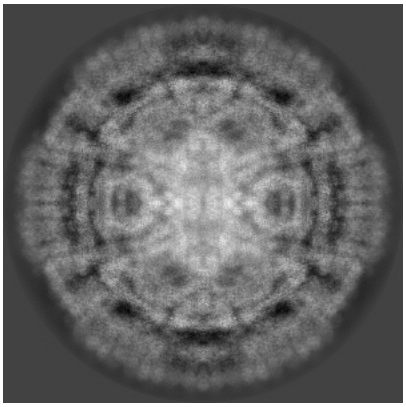
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

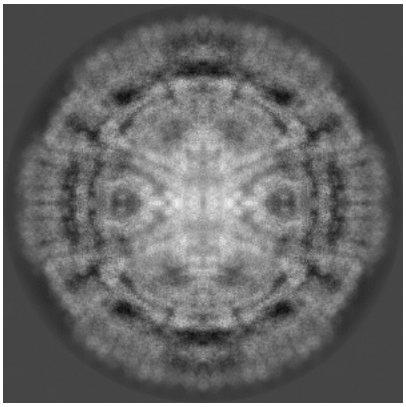
6.1.1 Primary map



X



Y

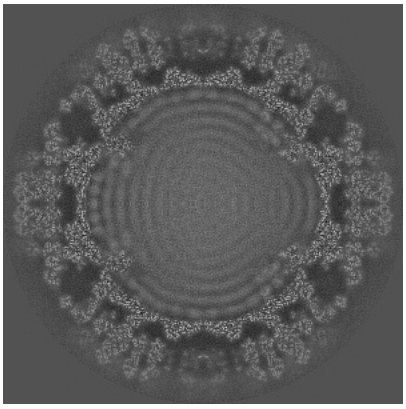


Z

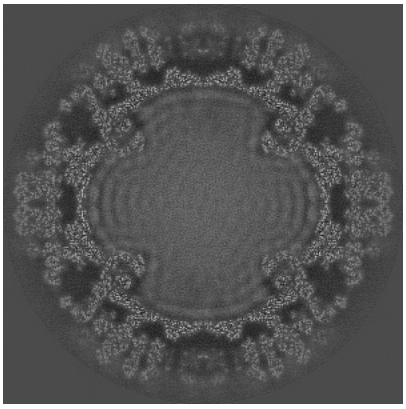
The images above show the map projected in three orthogonal directions.

6.2 Central slices

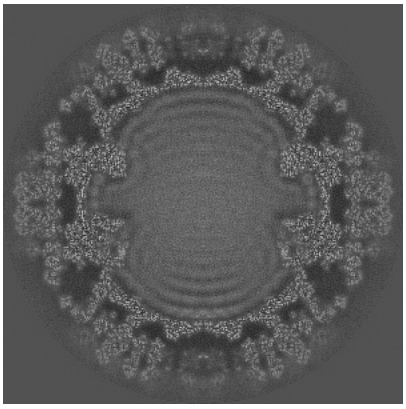
6.2.1 Primary map



X Index: 450



Y Index: 450

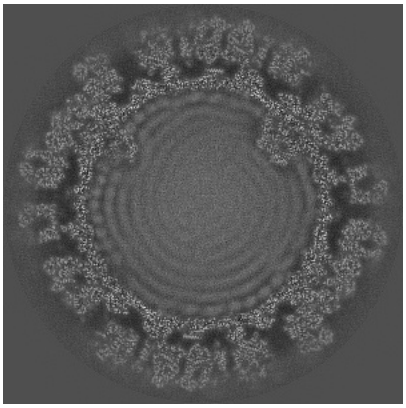


Z Index: 450

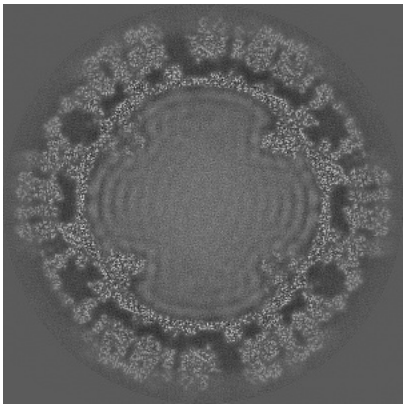
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

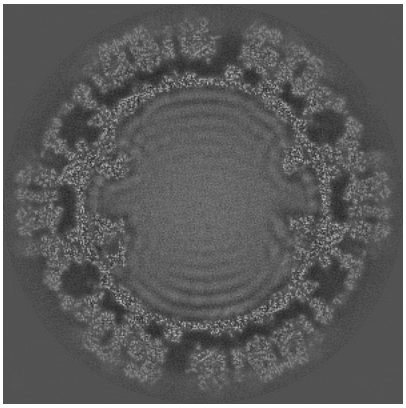
6.3.1 Primary map



X Index: 494



Y Index: 460

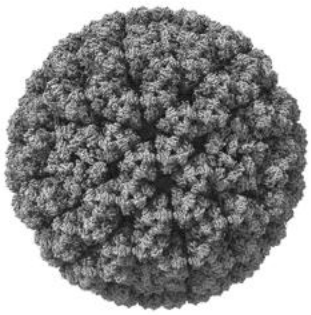


Z Index: 440

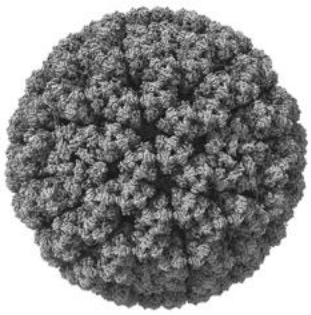
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views (i)

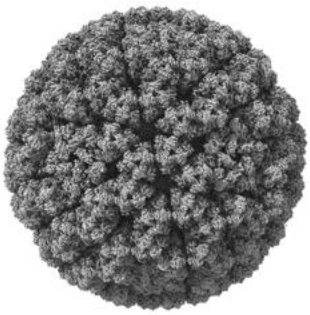
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 8.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

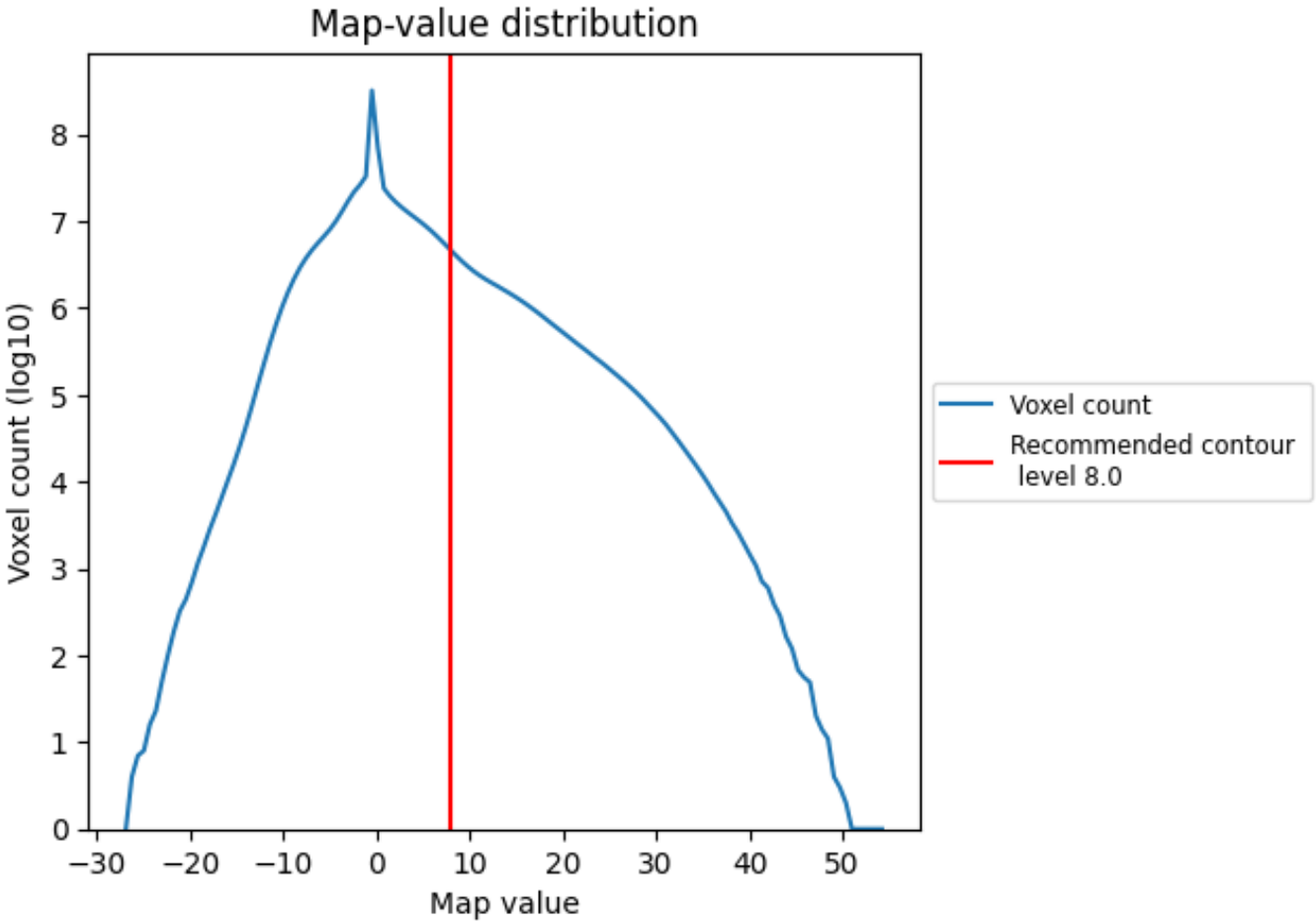
6.5 Mask visualisation (i)

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

7 Map analysis

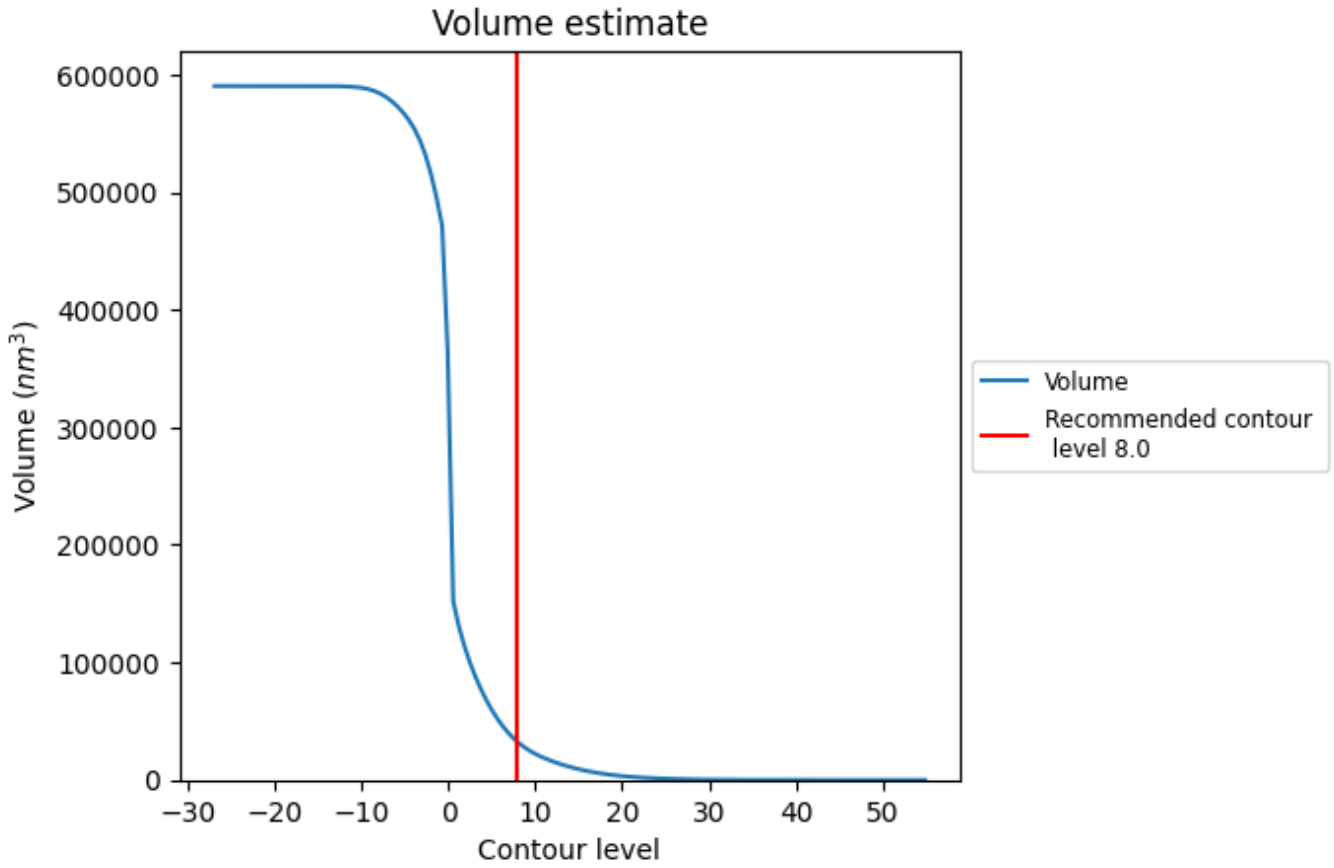
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

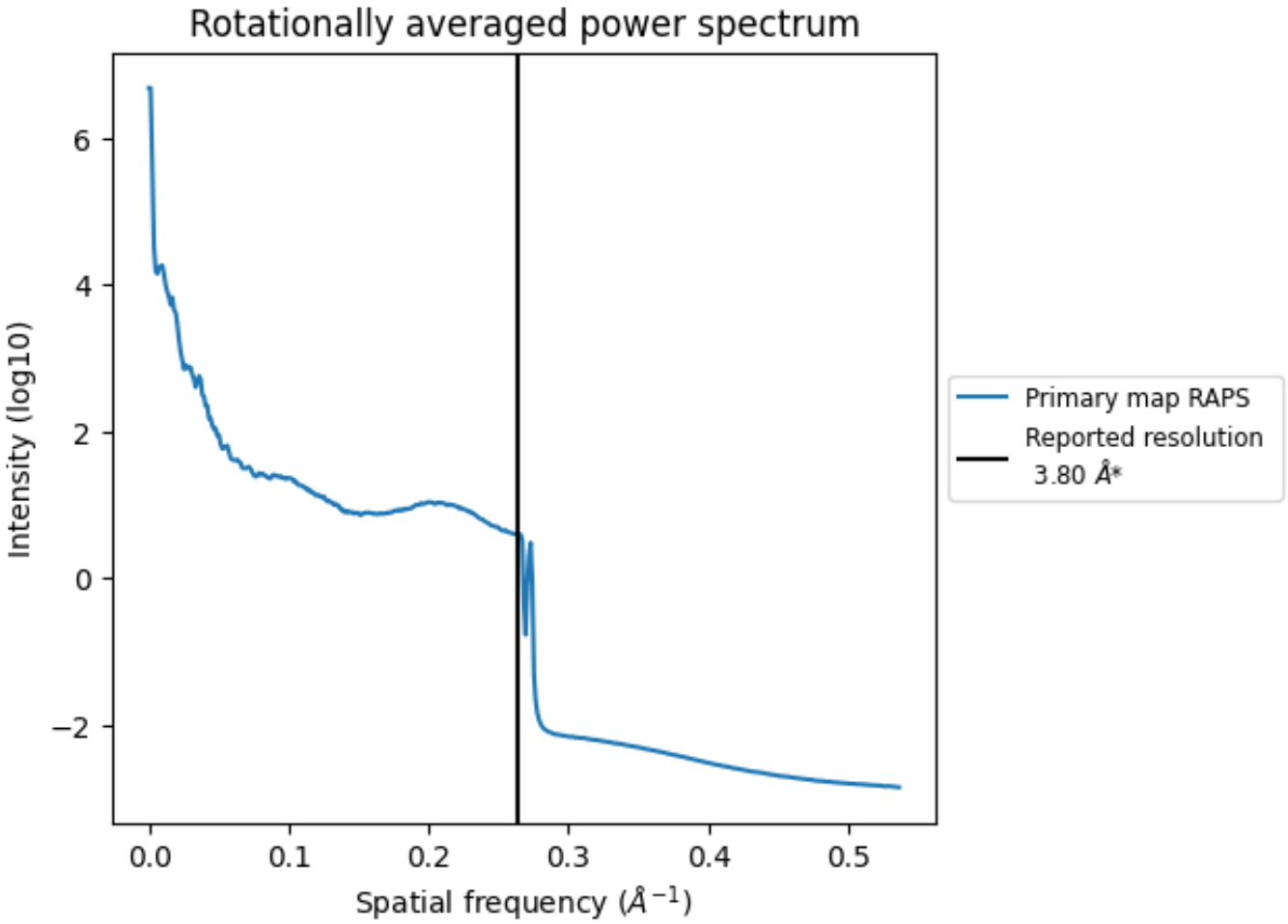
7.2 Volume estimate



The volume at the recommended contour level is 32351 nm^3; this corresponds to an approximate mass of 29223 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 0.263 Å^{-1}

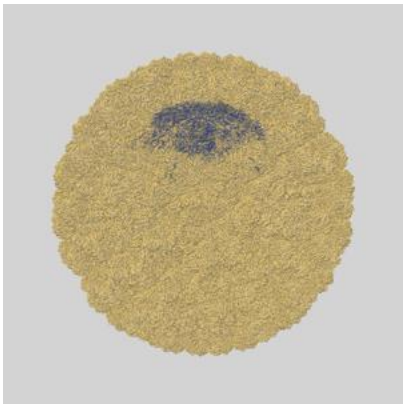
8 Fourier-Shell correlation

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

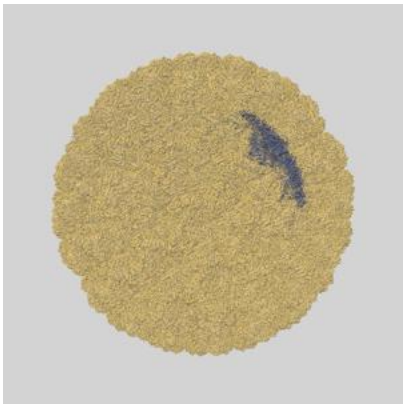
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-6968 and PDB model 5ZVS. Per-residue inclusion information can be found in section 3 on page 5.

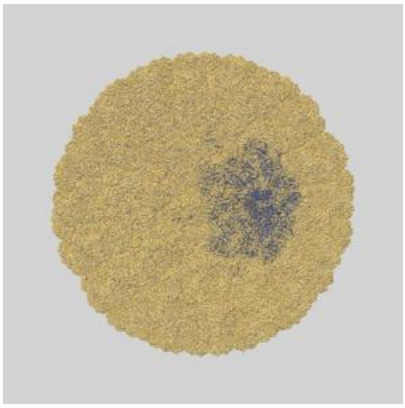
9.1 Map-model overlay



X



Y



Z

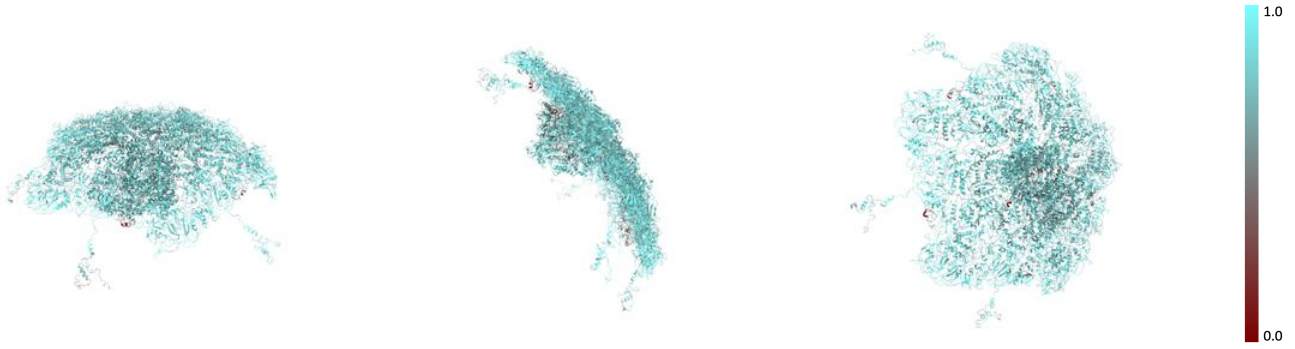
The images above show the 3D surface view of the map at the recommended contour level 8.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model (i)

X Y Z

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

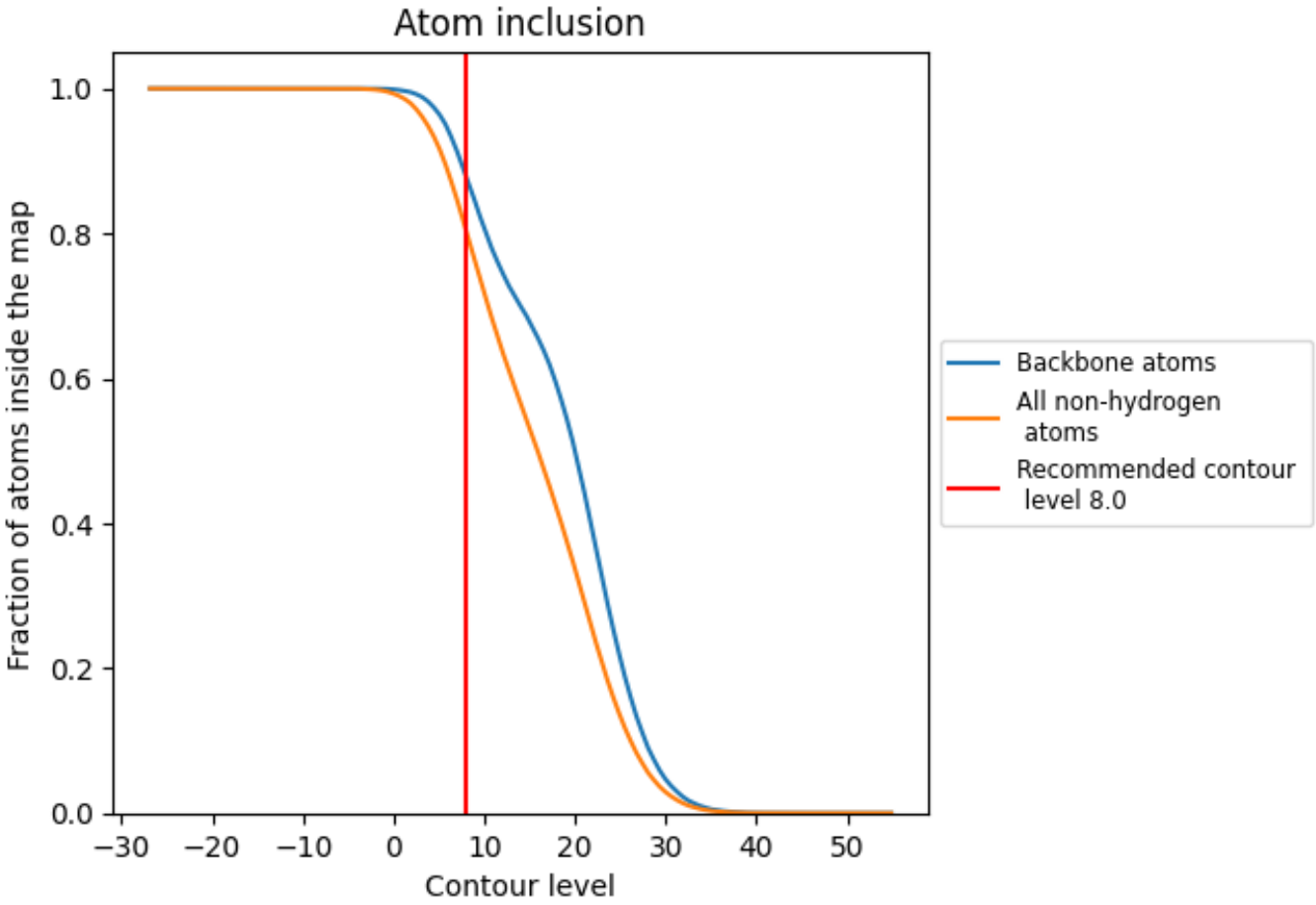
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (8.0).

9.4 Atom inclusion (i)



At the recommended contour level, 88% of all backbone atoms, 80% 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 (8.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8036	0.5110
2	0.7501	0.4900
4	0.7489	0.4910
A	0.8084	0.5170
B	0.7940	0.5120
C	0.8161	0.5180
D	0.8159	0.5140
E	0.8253	0.5160
F	0.8171	0.5130
G	0.8179	0.5140
H	0.8123	0.5150
I	0.8108	0.5150
J	0.8095	0.5150