



Full wwPDB EM Validation Report ⓘ

Dec 10, 2022 – 01:48 pm GMT

PDB ID : 4UWA
EMDB ID : EMD-2751
Title : Structure of the ryanodine receptor at resolution of 6.1 Å in closed state
Authors : Efremov, R.G.; Leitner, A.; Aebersold, R.; Raunser, S.
Deposited on : 2014-08-11
Resolution : 6.10 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) : 2.31.3

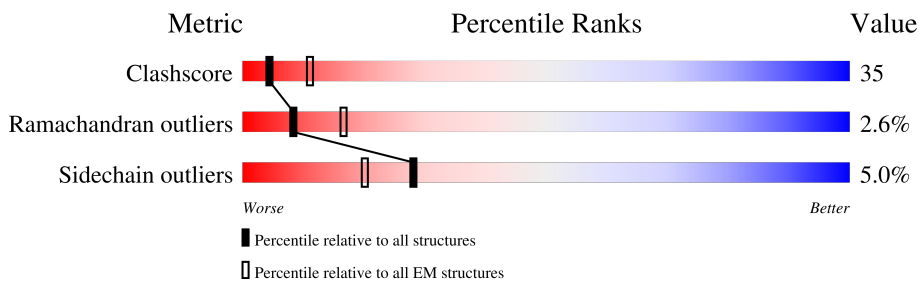
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY



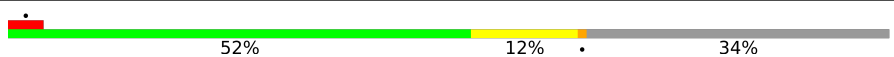
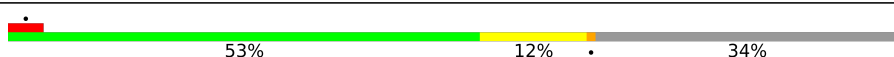
The reported resolution of this entry is 6.10 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	5037	 52% 12% 34%
1	B	5037	 52% 12% 34%
1	C	5037	 52% 12% 34%
1	D	5037	 53% 12% 34%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 81640 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.

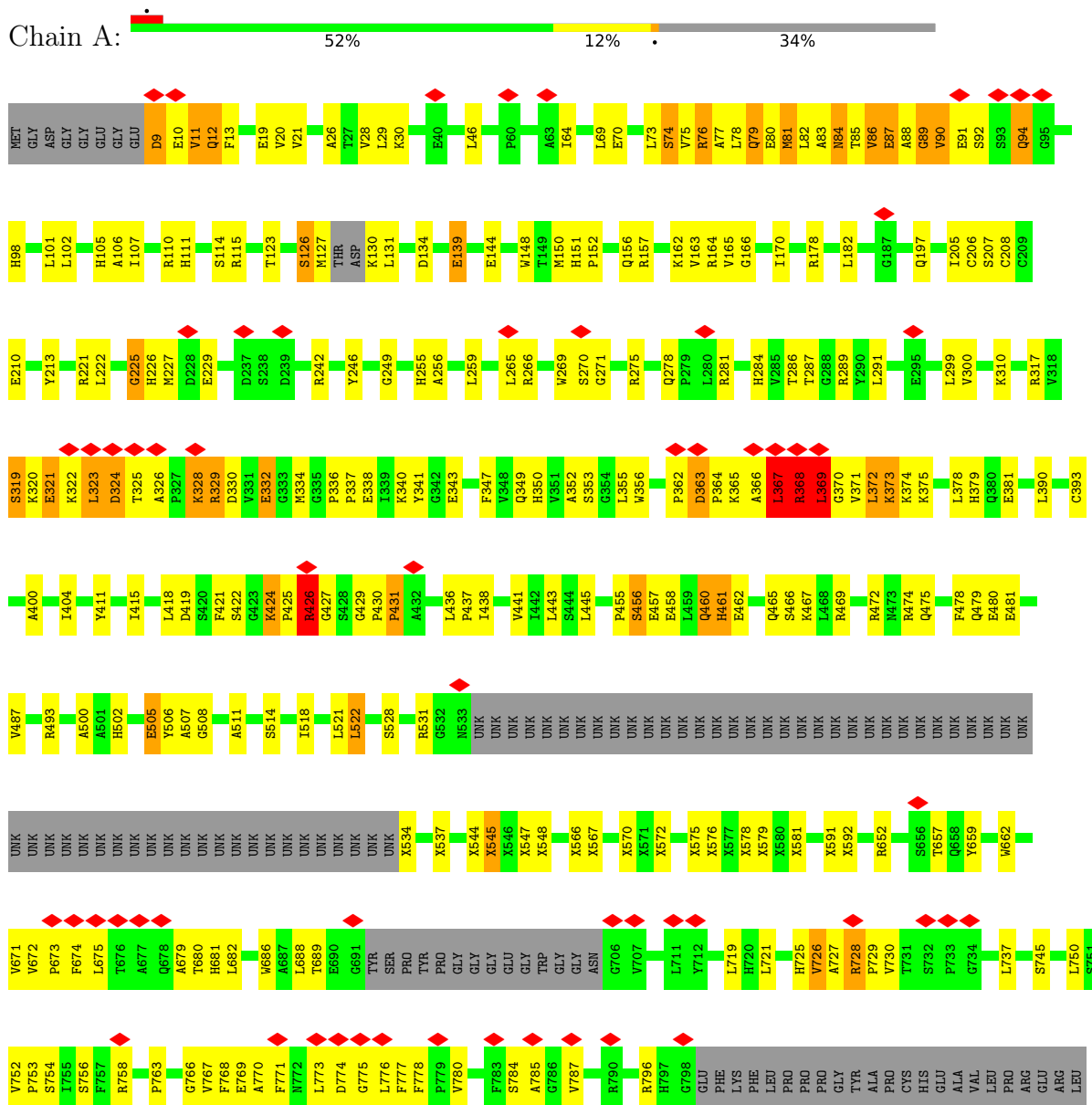
- Molecule 1 is a protein called RYANODINE RECEPTOR 1.

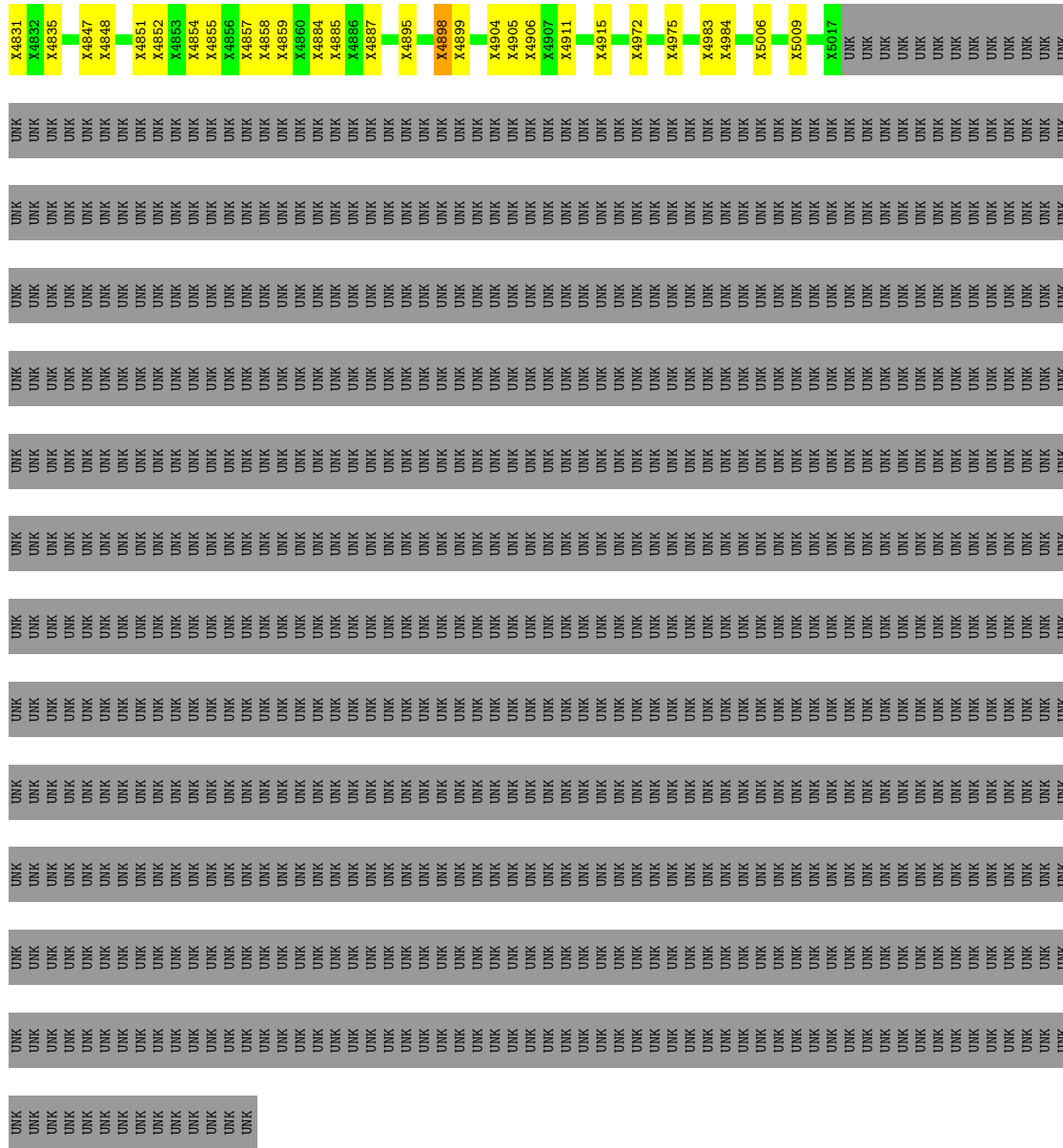
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	3324	Total 20410	C 12590	N 3818	O 3946	S 56	0	0
1	B	3324	Total 20410	C 12590	N 3818	O 3946	S 56	0	0
1	C	3324	Total 20410	C 12590	N 3818	O 3946	S 56	0	0
1	D	3324	Total 20410	C 12590	N 3818	O 3946	S 56	0	0

3 Residue-property plots

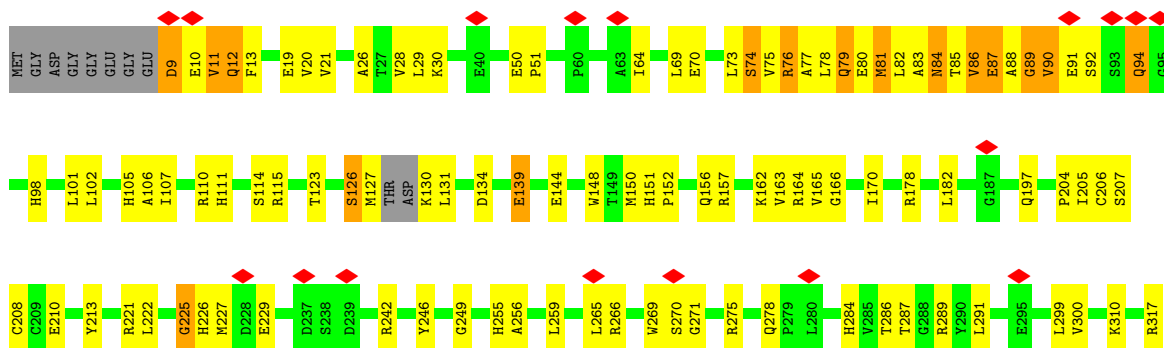
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

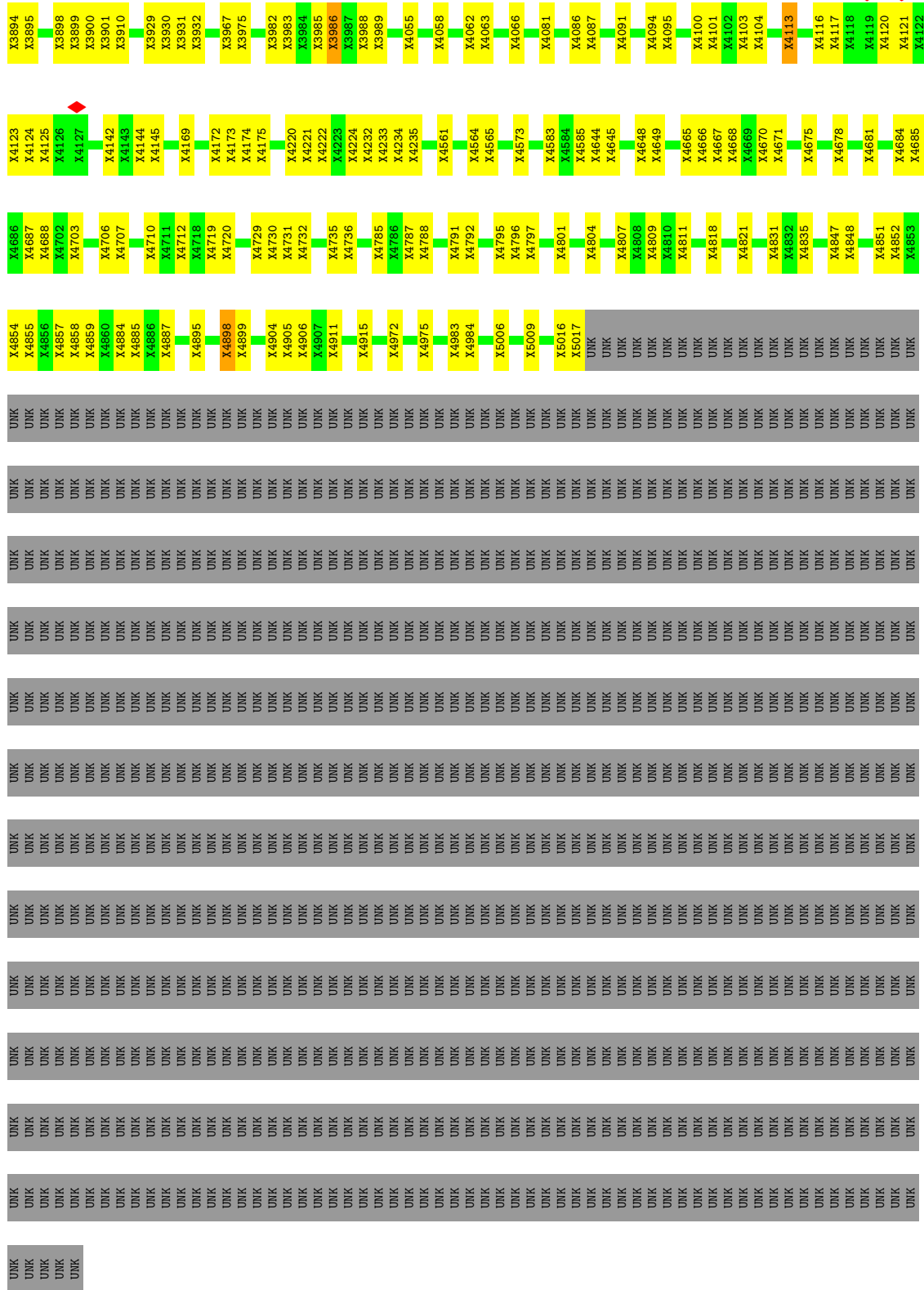
• Molecule 1: RYANODINE RECEPTOR 1





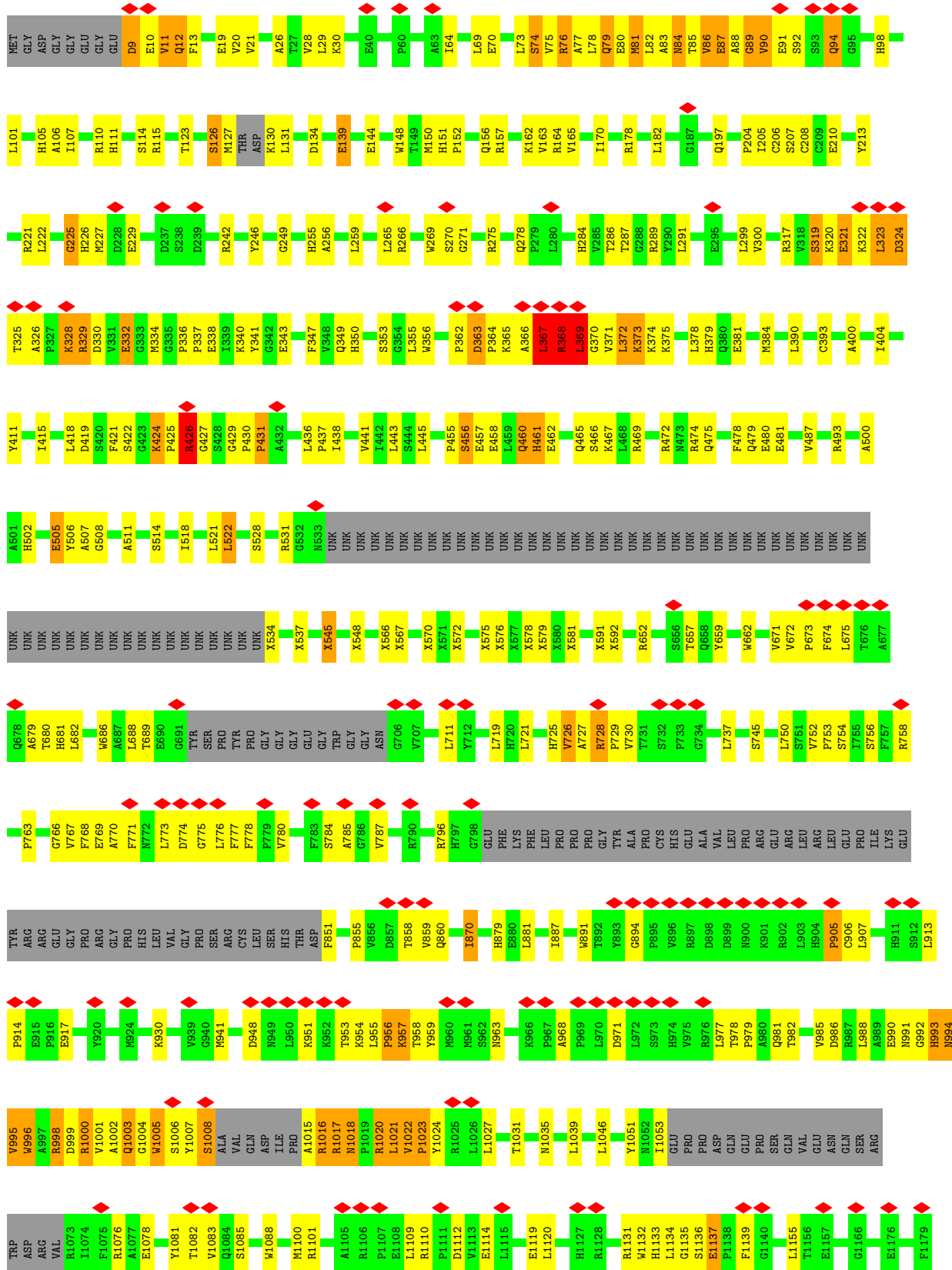
• Molecule 1: RYANODINE RECEPTOR 1





● Molecule 1: RYANODINE RECEPTOR 1





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C4	Depositor
Number of particles used	25000	Depositor
Resolution determination method	Not provided	
CTF correction method	FULL CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	47992	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	3.862	Depositor
Minimum map value	-2.497	Depositor
Average map value	0.010	Depositor
Map value standard deviation	0.118	Depositor
Recommended contour level	0.443	Depositor
Map size (\AA)	545.27997, 545.27997, 545.27997	wwPDB
Map dimensions	384, 384, 384	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.42, 1.42, 1.42	Depositor

5 Model quality i

5.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.36	0/10556	0.58	5/14313 (0.0%)
1	B	0.36	1/10556 (0.0%)	0.58	5/14313 (0.0%)
1	C	0.36	0/10556	0.58	5/14313 (0.0%)
1	D	0.36	1/10556 (0.0%)	0.58	5/14313 (0.0%)
All	All	0.36	2/42224 (0.0%)	0.58	20/57252 (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	10
1	B	0	10
1	C	0	10
1	D	0	10
All	All	0	40

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1005	TRP	CD2-CE2	5.01	1.47	1.41
1	D	1005	TRP	CD2-CE2	5.01	1.47	1.41

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	367	LEU	CA-CB-CG	11.67	142.14	115.30
1	D	367	LEU	CA-CB-CG	11.66	142.11	115.30
1	C	367	LEU	CA-CB-CG	11.65	142.10	115.30
1	B	367	LEU	CA-CB-CG	11.64	142.06	115.30
1	A	1435	TYR	CB-CG-CD2	-7.24	116.65	121.00
1	D	1435	TYR	CB-CG-CD2	-7.16	116.71	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	1435	TYR	CB-CG-CD2	-7.13	116.72	121.00
1	B	1435	TYR	CB-CG-CD2	-7.09	116.75	121.00
1	A	363	ASP	C-N-CD	-6.26	106.84	120.60
1	D	363	ASP	C-N-CD	-6.22	106.92	120.60
1	B	363	ASP	C-N-CD	-6.22	106.93	120.60
1	C	363	ASP	C-N-CD	-6.21	106.94	120.60
1	D	1195	GLY	C-N-CD	-6.00	107.39	120.60
1	A	1195	GLY	C-N-CD	-5.97	107.47	120.60
1	C	1195	GLY	C-N-CD	-5.95	107.51	120.60
1	C	369	LEU	CB-CG-CD2	5.95	121.11	111.00
1	B	369	LEU	CB-CG-CD2	5.94	121.10	111.00
1	B	1195	GLY	C-N-CD	-5.94	107.53	120.60
1	D	369	LEU	CB-CG-CD2	5.94	121.10	111.00
1	A	369	LEU	CB-CG-CD2	5.91	121.05	111.00

There are no chirality outliers.

All (40) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	3055	UNK	Peptide
1	A	3205	UNK	Peptide
1	A	3306	UNK	Peptide
1	A	3986	UNK	Peptide
1	A	4081	UNK	Peptide
1	A	4113	UNK	Peptide
1	A	4729	UNK	Peptide
1	A	4898	UNK	Peptide
1	A	545	UNK	Peptide
1	A	88	ALA	Peptide
1	B	3055	UNK	Peptide
1	B	3205	UNK	Peptide
1	B	3306	UNK	Peptide
1	B	3986	UNK	Peptide
1	B	4081	UNK	Peptide
1	B	4113	UNK	Peptide
1	B	4729	UNK	Peptide
1	B	4898	UNK	Peptide
1	B	545	UNK	Peptide
1	B	88	ALA	Peptide
1	C	3055	UNK	Peptide
1	C	3205	UNK	Peptide
1	C	3306	UNK	Peptide

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Mol	Chain	Res	Type	Group
1	C	3986	UNK	Peptide
1	C	4081	UNK	Peptide
1	C	4113	UNK	Peptide
1	C	4729	UNK	Peptide
1	C	4898	UNK	Peptide
1	C	545	UNK	Peptide
1	C	88	ALA	Peptide
1	D	3055	UNK	Peptide
1	D	3205	UNK	Peptide
1	D	3306	UNK	Peptide
1	D	3986	UNK	Peptide
1	D	4081	UNK	Peptide
1	D	4113	UNK	Peptide
1	D	4729	UNK	Peptide
1	D	4898	UNK	Peptide
1	D	545	UNK	Peptide
1	D	88	ALA	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	20410	0	12266	1168	0
1	B	20410	0	12265	1163	0
1	C	20410	0	12266	1163	0
1	D	20410	0	12266	1156	0
All	All	81640	0	49063	4593	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 35.

All (4593) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:657:THR:HG21	1:C:662:TRP:CE3	1.15	1.68
1:B:956:PRO:HG3	1:B:959:TYR:CZ	1.25	1.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:956:PRO:HG3	1:A:959:TYR:CE1	1.30	1.65
1:D:956:PRO:HG3	1:D:959:TYR:CE1	1.31	1.65
1:D:956:PRO:CD	1:D:959:TYR:CD2	1.74	1.64
1:B:956:PRO:CD	1:B:959:TYR:CD2	1.74	1.64
1:A:956:PRO:HG3	1:A:959:TYR:CZ	1.25	1.63
1:C:956:PRO:HG3	1:C:959:TYR:CZ	1.25	1.63
1:A:956:PRO:CD	1:A:959:TYR:CD2	1.74	1.63
1:A:657:THR:HG21	1:A:662:TRP:CE3	1.15	1.63
1:B:657:THR:HG21	1:B:662:TRP:CE3	1.15	1.63
1:C:657:THR:HG21	1:C:662:TRP:CD2	1.31	1.61
1:D:657:THR:HG21	1:D:662:TRP:CE3	1.15	1.61
1:C:753:PRO:HG3	1:C:773:LEU:CD1	1.28	1.61
1:D:956:PRO:HG3	1:D:959:TYR:CZ	1.25	1.60
1:D:753:PRO:HG3	1:D:773:LEU:CD1	1.28	1.60
1:C:956:PRO:HG3	1:C:959:TYR:CE1	1.31	1.59
1:B:956:PRO:HG3	1:B:959:TYR:CE1	1.31	1.59
1:D:657:THR:HG21	1:D:662:TRP:CD2	1.31	1.59
1:A:657:THR:HG21	1:A:662:TRP:CD2	1.31	1.58
1:C:956:PRO:CD	1:C:959:TYR:CD2	1.74	1.58
1:A:753:PRO:HG3	1:A:773:LEU:CD1	1.28	1.58
1:C:1007:TYR:CD1	1:C:1016:ARG:NH2	1.70	1.57
1:A:1007:TYR:CD1	1:A:1016:ARG:NH2	1.70	1.56
1:B:657:THR:HG21	1:B:662:TRP:CD2	1.31	1.56
1:D:1007:TYR:CD1	1:D:1016:ARG:NH2	1.70	1.56
1:B:753:PRO:HG3	1:B:773:LEU:CD1	1.28	1.56
1:B:1007:TYR:CD1	1:B:1016:ARG:NH2	1.70	1.55
1:B:956:PRO:CD	1:B:959:TYR:CG	1.92	1.52
1:C:956:PRO:HD3	1:C:959:TYR:CG	1.45	1.52
1:A:956:PRO:CD	1:A:959:TYR:CG	1.92	1.51
1:D:956:PRO:CD	1:D:959:TYR:CG	1.92	1.51
1:D:956:PRO:HD3	1:D:959:TYR:CG	1.45	1.50
1:D:1004:GLY:HA2	1:D:1007:TYR:CE1	1.46	1.50
1:C:996:TRP:CZ2	1:C:1021:LEU:HD13	1.45	1.50
1:B:996:TRP:CZ2	1:B:1021:LEU:HD13	1.45	1.50
1:B:3316:UNK:CB	1:B:3322:UNK:CB	1.91	1.49
1:A:996:TRP:CZ2	1:A:1021:LEU:HD13	1.45	1.49
1:D:996:TRP:CZ2	1:D:1021:LEU:HD13	1.45	1.49
1:C:3316:UNK:CB	1:C:3322:UNK:CB	1.91	1.48
1:B:1004:GLY:HA2	1:B:1007:TYR:CE1	1.46	1.48
1:C:956:PRO:CD	1:C:959:TYR:CG	1.92	1.48
1:C:1004:GLY:HA2	1:C:1007:TYR:CE1	1.47	1.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1004:GLY:HA2	1:A:1007:TYR:CE1	1.46	1.47
1:A:956:PRO:HD3	1:A:959:TYR:CG	1.45	1.46
1:A:3316:UNK:CB	1:A:3322:UNK:CB	1.91	1.46
1:B:956:PRO:HD3	1:B:959:TYR:CG	1.45	1.46
1:C:1018:ASN:HB2	1:C:1021:LEU:CD2	1.46	1.45
1:C:953:THR:O	1:C:959:TYR:CD2	1.69	1.45
1:D:3316:UNK:CB	1:D:3322:UNK:CB	1.91	1.45
1:D:728:ARG:HB2	1:D:1134:LEU:CD2	1.47	1.45
1:D:1018:ASN:HB2	1:D:1021:LEU:CD2	1.46	1.45
1:A:1018:ASN:HB2	1:A:1021:LEU:CD2	1.46	1.44
1:B:1018:ASN:HB2	1:B:1021:LEU:CD2	1.46	1.44
1:A:728:ARG:HB2	1:A:1134:LEU:CD2	1.47	1.44
1:C:1434:TYR:CE1	1:C:1570:LYS:HD2	1.53	1.43
1:B:953:THR:O	1:B:959:TYR:CD2	1.69	1.42
1:D:317:ARG:CZ	1:D:322:LYS:HA	1.46	1.42
1:D:657:THR:CG2	1:D:662:TRP:CE3	2.02	1.42
1:D:953:THR:O	1:D:959:TYR:CD2	1.69	1.42
1:B:317:ARG:CZ	1:B:322:LYS:HA	1.46	1.42
1:C:657:THR:CG2	1:C:662:TRP:CE3	2.02	1.42
1:A:317:ARG:CZ	1:A:322:LYS:HA	1.46	1.42
1:A:953:THR:O	1:A:959:TYR:CD2	1.69	1.42
1:C:1018:ASN:CB	1:C:1021:LEU:HD21	1.49	1.42
1:B:1018:ASN:CB	1:B:1021:LEU:HD21	1.49	1.41
1:C:728:ARG:HB2	1:C:1134:LEU:CD2	1.47	1.41
1:A:1434:TYR:CE1	1:A:1570:LYS:HD2	1.53	1.41
1:C:317:ARG:CZ	1:C:322:LYS:HA	1.46	1.41
1:B:728:ARG:HB2	1:B:1134:LEU:CD2	1.47	1.41
1:B:1020:ARG:NH1	1:B:1024:TYR:HA	1.34	1.40
1:B:1434:TYR:CE1	1:B:1570:LYS:HD2	1.53	1.40
1:D:1018:ASN:CB	1:D:1021:LEU:HD21	1.49	1.40
1:A:657:THR:CG2	1:A:662:TRP:CE3	2.02	1.40
1:D:1434:TYR:CE1	1:D:1570:LYS:HD2	1.53	1.40
1:C:3967:UNK:O	1:C:3975:UNK:CB	1.71	1.39
1:A:2296:UNK:HA	1:A:2352:UNK:CB	1.53	1.39
1:B:657:THR:CG2	1:B:662:TRP:CE3	2.02	1.38
1:B:2296:UNK:HA	1:B:2352:UNK:CB	1.53	1.38
1:D:2296:UNK:HA	1:D:2352:UNK:CB	1.53	1.38
1:C:2296:UNK:HA	1:C:2352:UNK:CB	1.53	1.38
1:C:752:VAL:HG11	1:C:769:GLU:CG	1.53	1.38
1:D:752:VAL:HG11	1:D:769:GLU:CG	1.53	1.38
1:B:3967:UNK:O	1:B:3975:UNK:CB	1.71	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1020:ARG:NH1	1:C:1024:TYR:HA	1.34	1.38
1:A:1020:ARG:NH1	1:A:1024:TYR:HA	1.34	1.37
1:B:3900:UNK:HA	1:B:3910:UNK:CB	1.53	1.37
1:D:3967:UNK:O	1:D:3975:UNK:CB	1.71	1.37
1:A:1018:ASN:CB	1:A:1021:LEU:HD21	1.49	1.37
1:D:1020:ARG:NH1	1:D:1024:TYR:HA	1.34	1.37
1:B:317:ARG:NH1	1:B:322:LYS:HA	1.38	1.36
1:B:752:VAL:HG11	1:B:769:GLU:CG	1.53	1.36
1:B:956:PRO:CG	1:B:959:TYR:CE1	2.08	1.36
1:C:956:PRO:CG	1:C:959:TYR:CE1	2.08	1.36
1:A:3900:UNK:HA	1:A:3910:UNK:CB	1.53	1.35
1:A:3930:UNK:C	1:D:76:ARG:HH12	1.38	1.35
1:C:317:ARG:NH1	1:C:322:LYS:HA	1.38	1.35
1:C:1452:TRP:CZ3	1:C:1527:MET:HB3	1.42	1.35
1:B:76:ARG:HH12	1:C:3930:UNK:C	1.38	1.35
1:D:956:PRO:CG	1:D:959:TYR:CE1	2.08	1.35
1:D:3900:UNK:HA	1:D:3910:UNK:CB	1.53	1.35
1:A:76:ARG:HH12	1:B:3930:UNK:C	1.38	1.35
1:A:956:PRO:HD3	1:A:959:TYR:CD2	0.82	1.35
1:A:3967:UNK:O	1:A:3975:UNK:CB	1.71	1.35
1:C:753:PRO:CG	1:C:773:LEU:CD1	2.05	1.35
1:C:3900:UNK:HA	1:C:3910:UNK:CB	1.53	1.34
1:A:317:ARG:NH1	1:A:322:LYS:HA	1.38	1.34
1:A:2292:UNK:C	1:A:2348:UNK:CB	2.05	1.34
1:B:956:PRO:HD3	1:B:959:TYR:CD2	0.82	1.34
1:C:956:PRO:HD3	1:C:959:TYR:CD2	0.82	1.34
1:A:752:VAL:HG11	1:A:769:GLU:CG	1.53	1.34
1:A:956:PRO:CG	1:A:959:TYR:CE1	2.08	1.34
1:D:2292:UNK:O	1:D:2348:UNK:CB	1.76	1.34
1:D:317:ARG:NH1	1:D:322:LYS:HA	1.38	1.34
1:B:2292:UNK:C	1:B:2348:UNK:CB	2.05	1.33
1:C:2292:UNK:C	1:C:2348:UNK:CB	2.05	1.33
1:C:76:ARG:HH12	1:D:3930:UNK:C	1.40	1.33
1:D:753:PRO:CG	1:D:773:LEU:CD1	2.05	1.33
1:D:956:PRO:HD3	1:D:959:TYR:CD2	0.82	1.33
1:A:207:SER:CA	1:A:269:TRP:HZ3	1.42	1.32
1:D:207:SER:CA	1:D:269:TRP:HZ3	1.42	1.32
1:D:1463:ASN:O	1:D:1468:LYS:NZ	1.62	1.32
1:A:2292:UNK:O	1:A:2348:UNK:CB	1.76	1.32
1:B:207:SER:CA	1:B:269:TRP:HZ3	1.42	1.32
1:B:753:PRO:CG	1:B:773:LEU:CD1	2.05	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2292:UNK:O	1:B:2348:UNK:CB	1.76	1.31
1:A:753:PRO:CG	1:A:773:LEU:CD1	2.05	1.31
1:D:2292:UNK:C	1:D:2348:UNK:CB	2.05	1.31
1:A:1463:ASN:O	1:A:1468:LYS:NZ	1.62	1.31
1:B:1463:ASN:O	1:B:1468:LYS:NZ	1.62	1.30
1:C:2292:UNK:O	1:C:2348:UNK:CB	1.76	1.30
1:B:426:ARG:NH2	1:B:796:ARG:NH1	1.80	1.30
1:B:1452:TRP:CZ3	1:B:1527:MET:HB3	1.42	1.30
1:C:207:SER:CA	1:C:269:TRP:HZ3	1.42	1.30
1:D:1452:TRP:CZ3	1:D:1527:MET:HB3	1.42	1.29
1:C:426:ARG:NH2	1:C:796:ARG:NH1	1.80	1.29
1:C:1463:ASN:O	1:C:1468:LYS:NZ	1.62	1.29
1:B:426:ARG:HH22	1:B:796:ARG:CZ	1.45	1.29
1:C:426:ARG:HH22	1:C:796:ARG:CZ	1.45	1.29
1:D:426:ARG:HH22	1:D:796:ARG:CZ	1.45	1.28
1:A:426:ARG:HH22	1:A:796:ARG:CZ	1.45	1.28
1:A:1002:ALA:HA	1:A:1005:TRP:CD1	1.68	1.28
1:B:1002:ALA:HA	1:B:1005:TRP:CD1	1.68	1.28
1:A:426:ARG:NH2	1:A:796:ARG:NH1	1.80	1.28
1:D:426:ARG:NH2	1:D:796:ARG:NH1	1.80	1.27
1:A:1007:TYR:CE1	1:A:1016:ARG:NH2	1.85	1.27
1:D:1002:ALA:HA	1:D:1005:TRP:CD1	1.68	1.27
1:C:1002:ALA:HA	1:C:1005:TRP:CD1	1.68	1.26
1:A:956:PRO:O	1:A:958:THR:N	1.69	1.26
1:C:657:THR:CG2	1:C:662:TRP:CD2	2.16	1.26
1:D:657:THR:CG2	1:D:662:TRP:CD2	2.16	1.26
1:A:1452:TRP:CZ3	1:A:1527:MET:HB3	1.42	1.26
1:B:956:PRO:O	1:B:958:THR:N	1.68	1.26
1:C:1007:TYR:CE1	1:C:1016:ARG:NH2	1.85	1.25
1:C:657:THR:CG2	1:C:662:TRP:CZ3	2.20	1.25
1:B:956:PRO:CG	1:B:959:TYR:CZ	2.19	1.25
1:D:657:THR:CG2	1:D:662:TRP:CZ3	2.20	1.25
1:A:1452:TRP:CH2	1:A:1527:MET:HB3	1.72	1.24
1:B:1007:TYR:CE1	1:B:1016:ARG:NH2	1.85	1.24
1:A:956:PRO:CG	1:A:959:TYR:CZ	2.19	1.24
1:B:657:THR:CG2	1:B:662:TRP:CD2	2.16	1.24
1:B:657:THR:CG2	1:B:662:TRP:CZ3	2.20	1.24
1:D:426:ARG:NH2	1:D:796:ARG:CZ	2.01	1.24
1:C:956:PRO:O	1:C:958:THR:N	1.69	1.23
1:C:1452:TRP:CH2	1:C:1527:MET:HB3	1.72	1.23
1:A:657:THR:CG2	1:A:662:TRP:CZ3	2.20	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:956:PRO:CG	1:C:959:TYR:CD1	2.22	1.23
1:D:956:PRO:O	1:D:958:THR:N	1.69	1.23
1:A:426:ARG:NH2	1:A:796:ARG:CZ	2.01	1.23
1:B:956:PRO:CG	1:B:959:TYR:CD1	2.22	1.23
1:D:956:PRO:CG	1:D:959:TYR:CZ	2.19	1.23
1:C:998:ARG:HH22	1:C:1002:ALA:CB	1.52	1.22
1:D:1452:TRP:CH2	1:D:1527:MET:HB3	1.72	1.22
1:A:657:THR:CG2	1:A:662:TRP:CD2	2.16	1.22
1:A:956:PRO:CG	1:A:959:TYR:CD1	2.22	1.22
1:B:1452:TRP:CH2	1:B:1527:MET:HB3	1.72	1.22
1:A:752:VAL:CG1	1:A:769:GLU:HB3	1.69	1.22
1:D:998:ARG:HH22	1:D:1002:ALA:CB	1.52	1.22
1:D:956:PRO:CG	1:D:959:TYR:CD1	2.22	1.22
1:A:1016:ARG:NH1	1:A:1016:ARG:HB3	1.55	1.21
1:D:752:VAL:CG1	1:D:769:GLU:HB3	1.69	1.21
1:D:1016:ARG:NH1	1:D:1016:ARG:HB3	1.55	1.21
1:A:4796:UNK:CB	1:A:4804:UNK:CB	2.18	1.21
1:B:752:VAL:CG1	1:B:769:GLU:HB3	1.69	1.21
1:B:998:ARG:HH22	1:B:1002:ALA:CB	1.52	1.21
1:B:1004:GLY:HA3	1:B:1015:ALA:CB	1.71	1.20
1:C:752:VAL:CG1	1:C:769:GLU:HB3	1.69	1.20
1:B:4796:UNK:CB	1:B:4804:UNK:CB	2.18	1.20
1:C:1016:ARG:HB3	1:C:1016:ARG:NH1	1.55	1.20
1:D:4796:UNK:CB	1:D:4804:UNK:CB	2.18	1.20
1:A:998:ARG:HH22	1:A:1002:ALA:CB	1.52	1.20
1:B:426:ARG:NH2	1:B:796:ARG:NH2	1.90	1.20
1:C:4796:UNK:CB	1:C:4804:UNK:CB	2.18	1.20
1:A:1439:VAL:N	1:A:1515:VAL:HA	1.57	1.20
1:D:426:ARG:NH2	1:D:796:ARG:NH2	1.90	1.20
1:A:1465:ASP:HA	1:A:1553:PHE:CG	1.77	1.20
1:B:1439:VAL:N	1:B:1515:VAL:HA	1.57	1.20
1:D:956:PRO:HD3	1:D:959:TYR:CE2	1.77	1.20
1:B:426:ARG:NH2	1:B:796:ARG:CZ	2.01	1.19
1:D:1004:GLY:HA3	1:D:1015:ALA:CB	1.71	1.19
1:B:1016:ARG:NH1	1:B:1016:ARG:HB3	1.55	1.19
1:D:1439:VAL:N	1:D:1515:VAL:HA	1.57	1.19
1:B:426:ARG:HH21	1:B:796:ARG:NH1	1.37	1.19
1:C:426:ARG:NH2	1:C:796:ARG:NH2	1.90	1.19
1:A:1004:GLY:HA3	1:A:1015:ALA:CB	1.71	1.19
1:C:956:PRO:CG	1:C:959:TYR:CZ	2.19	1.19
1:C:993:HIS:CA	1:C:996:TRP:HE3	1.55	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1004:GLY:HA3	1:C:1015:ALA:CB	1.71	1.19
1:A:426:ARG:NH2	1:A:796:ARG:NH2	1.90	1.19
1:B:993:HIS:CA	1:B:996:TRP:HE3	1.55	1.19
1:D:1465:ASP:HA	1:D:1553:PHE:CG	1.77	1.19
1:A:956:PRO:HD3	1:A:959:TYR:CE2	1.77	1.18
1:B:1465:ASP:HA	1:B:1553:PHE:CG	1.77	1.18
1:C:426:ARG:NH2	1:C:796:ARG:CZ	2.01	1.18
1:C:956:PRO:HD3	1:C:959:TYR:CE2	1.77	1.18
1:A:1001:VAL:HG13	1:A:1005:TRP:NE1	1.58	1.18
1:A:4221:UNK:O	1:A:4232:UNK:C	1.91	1.18
1:C:426:ARG:HH22	1:C:796:ARG:NH2	1.41	1.18
1:D:753:PRO:HG3	1:D:773:LEU:HD12	1.19	1.18
1:D:4221:UNK:O	1:D:4232:UNK:C	1.91	1.18
1:A:317:ARG:CZ	1:A:322:LYS:CA	2.22	1.17
1:B:207:SER:N	1:B:269:TRP:CZ3	2.12	1.17
1:C:1465:ASP:HA	1:C:1553:PHE:CG	1.78	1.17
1:B:956:PRO:HD3	1:B:959:TYR:CE2	1.77	1.17
1:D:426:ARG:HH22	1:D:796:ARG:NH2	1.42	1.17
1:D:207:SER:N	1:D:269:TRP:CZ3	2.12	1.17
1:C:1001:VAL:HG13	1:C:1005:TRP:NE1	1.58	1.17
1:C:4221:UNK:O	1:C:4232:UNK:C	1.91	1.17
1:D:317:ARG:CZ	1:D:322:LYS:CA	2.22	1.17
1:C:207:SER:N	1:C:269:TRP:CZ3	2.12	1.17
1:C:317:ARG:CZ	1:C:322:LYS:CA	2.22	1.17
1:A:753:PRO:CG	1:A:773:LEU:HD11	1.68	1.16
1:B:426:ARG:HH22	1:B:796:ARG:NH2	1.41	1.16
1:B:4221:UNK:O	1:B:4232:UNK:C	1.91	1.16
1:B:317:ARG:CZ	1:B:322:LYS:CA	2.22	1.16
1:C:1439:VAL:N	1:C:1515:VAL:HA	1.57	1.16
1:D:993:HIS:CA	1:D:996:TRP:HE3	1.55	1.16
1:D:1007:TYR:CE1	1:D:1016:ARG:NH2	1.85	1.16
1:A:207:SER:N	1:A:269:TRP:CZ3	2.12	1.16
1:A:426:ARG:HH22	1:A:796:ARG:NH2	1.41	1.16
1:B:753:PRO:CG	1:B:773:LEU:HD11	1.68	1.16
1:B:728:ARG:HB2	1:B:1134:LEU:HD22	1.21	1.16
1:B:1001:VAL:HG13	1:B:1005:TRP:NE1	1.58	1.16
1:D:728:ARG:HB2	1:D:1134:LEU:HD22	1.21	1.16
1:A:426:ARG:HH21	1:A:796:ARG:NH1	1.37	1.16
1:B:752:VAL:HG11	1:B:769:GLU:CD	1.67	1.16
1:B:1465:ASP:HA	1:B:1553:PHE:CD2	1.81	1.16
1:D:1452:TRP:CZ3	1:D:1527:MET:CB	2.19	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:752:VAL:HG11	1:A:769:GLU:CD	1.67	1.15
1:A:2428:UNK:CB	1:A:2498:UNK:CB	2.24	1.15
1:C:426:ARG:HH21	1:C:796:ARG:NH1	1.37	1.15
1:C:752:VAL:HG11	1:C:769:GLU:CD	1.67	1.15
1:D:1432:THR:OG1	1:D:1523:ALA:HB2	1.46	1.15
1:A:753:PRO:HG3	1:A:773:LEU:HD12	1.19	1.15
1:D:2073:UNK:CB	1:D:2094:UNK:CB	2.25	1.15
1:B:1452:TRP:CZ3	1:B:1527:MET:CB	2.19	1.15
1:B:2073:UNK:CB	1:B:2094:UNK:CB	2.25	1.15
1:C:1432:THR:OG1	1:C:1523:ALA:HB2	1.46	1.15
1:C:2428:UNK:CB	1:C:2498:UNK:CB	2.24	1.15
1:D:1004:GLY:HA2	1:D:1007:TYR:CZ	1.82	1.15
1:A:1432:THR:OG1	1:A:1523:ALA:HB2	1.46	1.14
1:A:1465:ASP:HA	1:A:1553:PHE:CD2	1.81	1.14
1:B:2428:UNK:CB	1:B:2498:UNK:CB	2.24	1.14
1:D:1001:VAL:HG13	1:D:1005:TRP:NE1	1.58	1.14
1:A:2073:UNK:CB	1:A:2094:UNK:CB	2.25	1.14
1:C:2073:UNK:CB	1:C:2094:UNK:CB	2.25	1.14
1:D:2244:UNK:CB	1:D:2287:UNK:CB	2.26	1.14
1:D:2428:UNK:CB	1:D:2498:UNK:CB	2.24	1.14
1:A:2244:UNK:CB	1:A:2287:UNK:CB	2.25	1.14
1:A:953:THR:O	1:A:959:TYR:CG	2.01	1.14
1:B:1432:THR:OG1	1:B:1523:ALA:HB2	1.45	1.14
1:D:657:THR:HG21	1:D:662:TRP:CZ3	1.82	1.14
1:D:1465:ASP:HA	1:D:1553:PHE:CD2	1.81	1.14
1:A:222:LEU:HD23	1:A:390:LEU:HD21	1.30	1.14
1:D:953:THR:O	1:D:959:TYR:CG	2.01	1.14
1:D:990:GLU:O	1:D:993:HIS:HB2	1.48	1.14
1:A:1016:ARG:HB3	1:A:1016:ARG:CZ	1.70	1.13
1:A:1452:TRP:CZ3	1:A:1527:MET:CB	2.19	1.13
1:B:1016:ARG:HB3	1:B:1016:ARG:CZ	1.70	1.13
1:B:2244:UNK:CB	1:B:2287:UNK:CB	2.26	1.13
1:D:426:ARG:HH21	1:D:796:ARG:NH1	1.37	1.13
1:A:1004:GLY:HA2	1:A:1007:TYR:CZ	1.82	1.13
1:A:1020:ARG:HA	1:A:1020:ARG:NE	1.63	1.13
1:C:1465:ASP:HA	1:C:1553:PHE:CD2	1.81	1.13
1:C:222:LEU:HD23	1:C:390:LEU:HD21	1.30	1.13
1:C:753:PRO:CG	1:C:773:LEU:HD11	1.68	1.13
1:C:1004:GLY:HA2	1:C:1007:TYR:CZ	1.82	1.13
1:B:953:THR:O	1:B:959:TYR:CG	2.01	1.13
1:C:2244:UNK:CB	1:C:2287:UNK:CB	2.25	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:956:PRO:HG3	1:A:959:TYR:CE2	1.84	1.12
1:C:953:THR:O	1:C:959:TYR:CG	2.01	1.13
1:C:1434:TYR:O	1:C:1568:LYS:O	1.67	1.12
1:A:657:THR:HB	1:A:662:TRP:CE2	1.85	1.12
1:B:1004:GLY:HA2	1:B:1007:TYR:CZ	1.82	1.12
1:D:657:THR:HB	1:D:662:TRP:CE2	1.84	1.12
1:D:1434:TYR:O	1:D:1568:LYS:O	1.67	1.12
1:A:956:PRO:CD	1:A:959:TYR:CE2	2.32	1.12
1:A:993:HIS:CA	1:A:996:TRP:HE3	1.55	1.12
1:B:657:THR:HB	1:B:662:TRP:CE2	1.85	1.12
1:C:752:VAL:HG11	1:C:769:GLU:CB	1.79	1.12
1:D:752:VAL:HG11	1:D:769:GLU:CD	1.67	1.12
1:A:657:THR:HG21	1:A:662:TRP:CZ3	1.82	1.12
1:C:990:GLU:O	1:C:993:HIS:HB2	1.48	1.12
1:D:752:VAL:HG11	1:D:769:GLU:CB	1.79	1.12
1:D:956:PRO:HG3	1:D:959:TYR:CE2	1.84	1.12
1:A:1429:ASN:OD1	1:A:1546:THR:O	1.68	1.12
1:A:1439:VAL:H	1:A:1515:VAL:HA	0.99	1.12
1:B:990:GLU:O	1:B:993:HIS:HB2	1.48	1.12
1:C:1452:TRP:CZ3	1:C:1527:MET:CB	2.19	1.12
1:B:222:LEU:HD23	1:B:390:LEU:CD2	1.80	1.11
1:C:753:PRO:HG3	1:C:773:LEU:HD12	1.19	1.11
1:C:1429:ASN:OD1	1:C:1546:THR:O	1.68	1.11
1:A:657:THR:HG22	1:A:662:TRP:CH2	1.86	1.11
1:B:752:VAL:HG11	1:B:769:GLU:CB	1.79	1.11
1:B:956:PRO:HG3	1:B:959:TYR:CE2	1.84	1.11
1:A:752:VAL:HG11	1:A:769:GLU:CB	1.79	1.11
1:A:1472:VAL:HG22	1:A:1496:TRP:CD1	1.86	1.11
1:B:1429:ASN:OD1	1:B:1546:THR:O	1.68	1.11
1:C:657:THR:HG22	1:C:662:TRP:CH2	1.86	1.11
1:D:1472:VAL:HG22	1:D:1496:TRP:CD1	1.86	1.11
1:C:956:PRO:HG3	1:C:959:TYR:CE2	1.84	1.11
1:D:753:PRO:CG	1:D:773:LEU:HD11	1.68	1.11
1:A:990:GLU:O	1:A:993:HIS:HB2	1.48	1.10
1:A:1007:TYR:CG	1:A:1016:ARG:NH2	2.19	1.10
1:C:1439:VAL:H	1:C:1515:VAL:HA	0.99	1.10
1:A:4585:UNK:CB	1:D:4884:UNK:O	1.99	1.10
1:B:207:SER:CA	1:B:269:TRP:CZ3	2.34	1.10
1:B:1434:TYR:O	1:B:1568:LYS:O	1.67	1.10
1:C:657:THR:HB	1:C:662:TRP:CE2	1.84	1.10
1:C:956:PRO:CD	1:C:959:TYR:CE2	2.32	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:LEU:HD23	1:A:390:LEU:CD2	1.80	1.10
1:B:753:PRO:HG3	1:B:773:LEU:HD12	1.19	1.10
1:B:1007:TYR:CG	1:B:1016:ARG:NH2	2.19	1.10
1:C:1007:TYR:CG	1:C:1016:ARG:NH2	2.19	1.10
1:D:207:SER:CA	1:D:269:TRP:CZ3	2.34	1.10
1:D:222:LEU:HD23	1:D:390:LEU:CD2	1.80	1.10
1:D:956:PRO:CD	1:D:959:TYR:CE2	2.32	1.10
1:D:1429:ASN:OD1	1:D:1546:THR:O	1.68	1.10
1:A:728:ARG:HB2	1:A:1134:LEU:HD23	1.32	1.10
1:A:1022:VAL:O	1:A:1023:PRO:O	1.69	1.10
1:B:1439:VAL:H	1:B:1515:VAL:HA	0.99	1.10
1:C:222:LEU:HD23	1:C:390:LEU:CD2	1.80	1.10
1:C:1004:GLY:CA	1:C:1015:ALA:HB1	1.82	1.10
1:C:1022:VAL:O	1:C:1023:PRO:O	1.69	1.10
1:C:1472:VAL:HG22	1:C:1496:TRP:CD1	1.86	1.09
1:A:728:ARG:HB2	1:A:1134:LEU:HD22	1.21	1.09
1:A:1004:GLY:CA	1:A:1015:ALA:HB1	1.82	1.09
1:B:752:VAL:HG12	1:B:769:GLU:HB3	1.34	1.09
1:B:1437:VAL:O	1:B:1516:ILE:O	1.70	1.09
1:B:1472:VAL:HG22	1:B:1496:TRP:CD1	1.86	1.09
1:C:205:ILE:O	1:C:269:TRP:HA	1.51	1.09
1:D:657:THR:HG22	1:D:662:TRP:CH2	1.86	1.09
1:A:207:SER:CA	1:A:269:TRP:CZ3	2.34	1.09
1:A:1434:TYR:O	1:A:1568:LYS:O	1.67	1.09
1:B:657:THR:HG21	1:B:662:TRP:CZ3	1.82	1.09
1:B:657:THR:HG22	1:B:662:TRP:CH2	1.86	1.09
1:C:657:THR:HG21	1:C:662:TRP:CZ3	1.82	1.09
1:C:1016:ARG:HB3	1:C:1016:ARG:CZ	1.70	1.09
1:D:426:ARG:NH2	1:D:796:ARG:HH12	1.42	1.09
1:D:1007:TYR:CG	1:D:1016:ARG:NH2	2.19	1.09
1:D:1016:ARG:HB3	1:D:1016:ARG:CZ	1.70	1.09
1:D:1020:ARG:HA	1:D:1020:ARG:NE	1.63	1.09
1:D:1437:VAL:O	1:D:1516:ILE:O	1.70	1.09
1:C:1004:GLY:HA3	1:C:1015:ALA:HB1	1.09	1.09
1:D:1439:VAL:H	1:D:1515:VAL:HA	0.99	1.09
1:A:426:ARG:NH2	1:A:796:ARG:HH12	1.42	1.09
1:B:329:ARG:HH11	1:B:329:ARG:HG3	1.17	1.09
1:D:1438:ARG:HA	1:D:1515:VAL:HG13	1.10	1.09
1:B:998:ARG:NH2	1:B:1002:ALA:HB2	1.67	1.08
1:B:1450:VAL:O	1:B:1529:PHE:HZ	1.36	1.08
1:B:4884:UNK:O	1:C:4585:UNK:CB	2.01	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:368:ARG:HG2	1:C:368:ARG:HH11	1.16	1.08
1:D:205:ILE:O	1:D:269:TRP:HA	1.51	1.08
1:D:996:TRP:CZ2	1:D:1021:LEU:CD1	2.36	1.08
1:D:1022:VAL:O	1:D:1023:PRO:O	1.69	1.08
1:A:1472:VAL:HG22	1:A:1496:TRP:HD1	1.16	1.08
1:B:1004:GLY:CA	1:B:1015:ALA:HB1	1.82	1.08
1:B:1438:ARG:HA	1:B:1515:VAL:HG13	1.10	1.08
1:C:1438:ARG:HA	1:C:1515:VAL:HG13	1.10	1.08
1:A:1450:VAL:O	1:A:1529:PHE:HZ	1.36	1.08
1:B:728:ARG:HB2	1:B:1134:LEU:HD23	1.32	1.08
1:B:1020:ARG:NE	1:B:1020:ARG:HA	1.63	1.08
1:C:207:SER:CA	1:C:269:TRP:CZ3	2.34	1.08
1:C:329:ARG:HH11	1:C:329:ARG:HG3	1.17	1.08
1:C:996:TRP:CZ2	1:C:1021:LEU:CD1	2.36	1.08
1:D:1004:GLY:CA	1:D:1007:TYR:CE1	2.37	1.08
1:A:21:VAL:HG13	1:A:205:ILE:HD11	1.08	1.08
1:B:21:VAL:HG13	1:B:205:ILE:HD11	1.08	1.08
1:B:657:THR:HG22	1:B:662:TRP:CZ3	1.87	1.08
1:B:1004:GLY:CA	1:B:1007:TYR:CE1	2.37	1.08
1:B:1022:VAL:O	1:B:1023:PRO:O	1.69	1.08
1:C:998:ARG:NH2	1:C:1002:ALA:HB2	1.67	1.08
1:A:993:HIS:HA	1:A:996:TRP:HE3	0.91	1.07
1:A:996:TRP:CZ2	1:A:1021:LEU:CD1	2.36	1.07
1:A:998:ARG:NH2	1:A:1002:ALA:HB2	1.67	1.07
1:A:1437:VAL:O	1:A:1516:ILE:O	1.70	1.07
1:A:4855:UNK:O	1:A:4859:UNK:N	1.87	1.07
1:B:205:ILE:O	1:B:269:TRP:HA	1.51	1.07
1:B:993:HIS:HA	1:B:996:TRP:HE3	0.91	1.07
1:B:4855:UNK:O	1:B:4859:UNK:N	1.87	1.07
1:C:1017:ARG:HD2	1:C:1017:ARG:N	1.69	1.07
1:B:80:GLU:O	1:B:84:ASN:ND2	1.88	1.07
1:B:222:LEU:HD23	1:B:390:LEU:HD21	1.30	1.07
1:B:996:TRP:CZ2	1:B:1021:LEU:CD1	2.36	1.07
1:D:998:ARG:NH2	1:D:1002:ALA:HB2	1.67	1.07
1:A:205:ILE:O	1:A:269:TRP:HA	1.51	1.07
1:B:956:PRO:CD	1:B:959:TYR:CE2	2.32	1.07
1:C:80:GLU:O	1:C:84:ASN:ND2	1.88	1.07
1:D:80:GLU:O	1:D:84:ASN:ND2	1.88	1.07
1:D:1004:GLY:CA	1:D:1015:ALA:HB1	1.82	1.07
1:D:1450:VAL:O	1:D:1529:PHE:HZ	1.36	1.07
1:D:4855:UNK:O	1:D:4859:UNK:N	1.87	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1004:GLY:HA3	1:B:1015:ALA:HB1	1.09	1.07
1:B:1472:VAL:HG22	1:B:1496:TRP:HD1	1.16	1.07
1:C:1004:GLY:CA	1:C:1007:TYR:CE1	2.37	1.07
1:C:1450:VAL:O	1:C:1529:PHE:HZ	1.36	1.07
1:A:1004:GLY:CA	1:A:1007:TYR:CE1	2.37	1.07
1:B:80:GLU:OE1	1:C:3932:UNK:CB	2.04	1.06
1:B:4787:UNK:O	1:B:4791:UNK:N	1.88	1.06
1:C:1020:ARG:NE	1:C:1020:ARG:HA	1.63	1.06
1:C:1437:VAL:O	1:C:1516:ILE:O	1.70	1.06
1:D:222:LEU:HD23	1:D:390:LEU:HD21	1.30	1.06
1:D:993:HIS:HA	1:D:996:TRP:CE3	1.82	1.06
1:A:80:GLU:O	1:A:84:ASN:ND2	1.88	1.06
1:A:752:VAL:HG12	1:A:769:GLU:HB3	1.34	1.06
1:B:752:VAL:CG2	1:B:754:SER:HB2	1.86	1.06
1:C:993:HIS:HA	1:C:996:TRP:CE3	1.82	1.06
1:C:998:ARG:HD3	1:C:999:ASP:N	1.70	1.06
1:D:657:THR:HG22	1:D:662:TRP:CZ3	1.87	1.06
1:D:4787:UNK:O	1:D:4791:UNK:N	1.88	1.06
1:C:21:VAL:HG13	1:C:205:ILE:HD11	1.08	1.06
1:C:657:THR:HG22	1:C:662:TRP:CZ3	1.87	1.06
1:C:4855:UNK:O	1:C:4859:UNK:N	1.87	1.06
1:D:998:ARG:HD3	1:D:999:ASP:N	1.70	1.06
1:D:3317:UNK:CB	1:D:3323:UNK:N	2.19	1.06
1:A:4787:UNK:O	1:A:4791:UNK:N	1.88	1.06
1:C:3317:UNK:CB	1:C:3323:UNK:N	2.19	1.06
1:D:1004:GLY:HA3	1:D:1015:ALA:HB1	1.09	1.06
1:D:728:ARG:HB2	1:D:1134:LEU:HD23	1.32	1.05
1:A:752:VAL:CG2	1:A:754:SER:HB2	1.86	1.05
1:C:728:ARG:HB2	1:C:1134:LEU:HD22	1.21	1.05
1:D:21:VAL:HG13	1:D:205:ILE:HD11	1.08	1.05
1:A:1004:GLY:HA3	1:A:1015:ALA:HB1	1.09	1.05
1:A:3317:UNK:CB	1:A:3323:UNK:N	2.19	1.05
1:C:1466:LEU:HD22	1:C:1551:ALA:O	1.57	1.05
1:C:4787:UNK:O	1:C:4791:UNK:N	1.88	1.05
1:D:993:HIS:HA	1:D:996:TRP:HE3	0.91	1.05
1:A:1438:ARG:HA	1:A:1515:VAL:HG13	1.10	1.05
1:B:368:ARG:HG2	1:B:368:ARG:HH11	1.16	1.05
1:B:998:ARG:HD3	1:B:999:ASP:N	1.70	1.05
1:C:426:ARG:NH2	1:C:796:ARG:HH12	1.42	1.05
1:C:728:ARG:HB2	1:C:1134:LEU:HD23	1.32	1.05
1:C:752:VAL:CG2	1:C:754:SER:HB2	1.86	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:993:HIS:HA	1:C:996:TRP:HE3	0.91	1.05
1:D:368:ARG:HG2	1:D:368:ARG:HH11	1.16	1.05
1:A:3932:UNK:CB	1:D:80:GLU:OE1	2.05	1.04
1:A:657:THR:HG22	1:A:662:TRP:CZ3	1.87	1.04
1:B:1466:LEU:HD22	1:B:1551:ALA:O	1.57	1.04
1:C:80:GLU:OE1	1:D:3932:UNK:CB	2.05	1.04
1:D:752:VAL:CG2	1:D:754:SER:HB2	1.86	1.04
1:D:1001:VAL:HG13	1:D:1005:TRP:HE1	0.91	1.04
1:A:80:GLU:OE1	1:B:3932:UNK:CB	2.04	1.04
1:A:329:ARG:HH11	1:A:329:ARG:HG3	1.17	1.04
1:B:426:ARG:NH2	1:B:796:ARG:HH12	1.42	1.04
1:B:956:PRO:CG	1:B:959:TYR:CE2	2.40	1.04
1:B:3317:UNK:CB	1:B:3323:UNK:N	2.19	1.04
1:B:998:ARG:HH22	1:B:1002:ALA:HB2	1.18	1.04
1:C:752:VAL:HG12	1:C:769:GLU:HB3	1.34	1.04
1:A:1017:ARG:N	1:A:1017:ARG:HD2	1.70	1.04
1:A:4884:UNK:O	1:B:4585:UNK:CB	2.02	1.04
1:C:753:PRO:HG3	1:C:773:LEU:HD13	1.38	1.04
1:C:4884:UNK:O	1:D:4585:UNK:CB	2.01	1.04
1:A:753:PRO:HG3	1:A:773:LEU:HD13	1.38	1.03
1:A:1001:VAL:HG13	1:A:1005:TRP:HE1	0.91	1.03
1:D:956:PRO:CG	1:D:959:TYR:CE2	2.40	1.03
1:A:998:ARG:HD3	1:A:999:ASP:N	1.70	1.03
1:C:956:PRO:CG	1:C:959:TYR:CE2	2.40	1.03
1:C:1001:VAL:HG13	1:C:1005:TRP:HE1	0.91	1.03
1:D:1466:LEU:HD22	1:D:1551:ALA:O	1.57	1.03
1:D:3899:UNK:O	1:D:3910:UNK:N	1.92	1.03
1:A:956:PRO:CG	1:A:959:TYR:CE2	2.40	1.03
1:A:1434:TYR:CE1	1:A:1570:LYS:CD	2.41	1.03
1:A:1466:LEU:HD22	1:A:1551:ALA:O	1.57	1.03
1:B:1001:VAL:HG13	1:B:1005:TRP:HE1	0.91	1.03
1:D:752:VAL:HG12	1:D:769:GLU:HB3	1.34	1.03
1:D:1017:ARG:N	1:D:1017:ARG:HD2	1.69	1.03
1:D:1434:TYR:CE1	1:D:1570:LYS:CD	2.41	1.03
1:A:998:ARG:HH22	1:A:1002:ALA:HB2	1.18	1.03
1:B:1434:TYR:CE1	1:B:1570:LYS:CD	2.41	1.03
1:D:329:ARG:HH11	1:D:329:ARG:HG3	1.17	1.03
1:A:1450:VAL:C	1:A:1529:PHE:HZ	1.63	1.02
1:B:1450:VAL:C	1:B:1529:PHE:HZ	1.63	1.02
1:D:998:ARG:HH22	1:D:1002:ALA:HB2	1.18	1.02
1:A:368:ARG:HG2	1:A:368:ARG:HH11	1.16	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1000:ARG:NE	1:A:1016:ARG:HD2	1.75	1.02
1:B:753:PRO:HG3	1:B:773:LEU:HD13	1.39	1.02
1:C:1000:ARG:NE	1:C:1016:ARG:HD2	1.75	1.02
1:C:1434:TYR:CE1	1:C:1570:LYS:CD	2.41	1.02
1:D:426:ARG:NH2	1:D:796:ARG:HH22	1.55	1.02
1:D:1472:VAL:HG22	1:D:1496:TRP:HD1	1.16	1.02
1:A:76:ARG:NH1	1:B:3930:UNK:C	2.22	1.01
1:A:753:PRO:HG2	1:A:773:LEU:HD11	1.43	1.01
1:B:1000:ARG:NE	1:B:1016:ARG:HD2	1.75	1.01
1:B:3316:UNK:C	1:B:3322:UNK:CB	2.38	1.01
1:C:1472:VAL:HG22	1:C:1496:TRP:HD1	1.16	1.01
1:D:1432:THR:O	1:D:1570:LYS:O	1.78	1.01
1:A:956:PRO:HD3	1:A:959:TYR:HD2	1.19	1.01
1:A:3316:UNK:C	1:A:3322:UNK:CB	2.38	1.01
1:A:3930:UNK:C	1:D:76:ARG:NH1	2.22	1.01
1:B:1017:ARG:N	1:B:1017:ARG:HD2	1.69	1.01
1:B:3899:UNK:O	1:B:3910:UNK:N	1.92	1.01
1:C:1021:LEU:O	1:C:1022:VAL:HG13	1.61	1.01
1:D:1450:VAL:C	1:D:1529:PHE:HZ	1.63	1.01
1:A:1017:ARG:HH11	1:A:1017:ARG:CG	1.74	1.01
1:A:1452:TRP:CH2	1:A:1527:MET:CB	2.42	1.01
1:C:998:ARG:HH22	1:C:1002:ALA:HB2	1.18	1.01
1:C:1021:LEU:O	1:C:1022:VAL:HG22	1.61	1.01
1:C:1450:VAL:C	1:C:1529:PHE:HZ	1.63	1.01
1:D:1000:ARG:NH2	1:D:1016:ARG:CG	2.24	1.01
1:D:1021:LEU:O	1:D:1022:VAL:HG13	1.61	1.01
1:C:752:VAL:HG21	1:C:754:SER:HB2	1.42	1.01
1:C:1432:THR:O	1:C:1570:LYS:O	1.78	1.01
1:D:1017:ARG:HH11	1:D:1017:ARG:CG	1.74	1.01
1:D:1452:TRP:CH2	1:D:1527:MET:CB	2.42	1.01
1:D:3316:UNK:C	1:D:3322:UNK:CB	2.38	1.01
1:A:4091:UNK:O	1:A:4095:UNK:N	1.94	1.00
1:B:657:THR:CB	1:B:662:TRP:CE2	2.45	1.00
1:B:1000:ARG:NH2	1:B:1016:ARG:CG	2.24	1.00
1:C:3899:UNK:O	1:C:3910:UNK:N	1.92	1.00
1:A:1021:LEU:O	1:A:1022:VAL:HG13	1.61	1.00
1:A:1021:LEU:O	1:A:1022:VAL:HG22	1.61	1.00
1:A:1432:THR:O	1:A:1570:LYS:O	1.78	1.00
1:A:3899:UNK:O	1:A:3910:UNK:N	1.92	1.00
1:B:76:ARG:NH1	1:C:3930:UNK:C	2.22	1.00
1:C:657:THR:CB	1:C:662:TRP:CE2	2.45	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1476:MET:HE1	1:C:1516:ILE:HD11	1.40	1.00
1:B:222:LEU:CD2	1:B:390:LEU:HD21	1.92	1.00
1:B:1021:LEU:O	1:B:1022:VAL:HG22	1.61	1.00
1:C:4113:UNK:HA	1:C:4116:UNK:CB	1.92	1.00
1:D:4113:UNK:HA	1:D:4116:UNK:CB	1.92	1.00
1:B:753:PRO:HG2	1:B:773:LEU:HD11	1.43	1.00
1:D:84:ASN:HA	1:D:87:GLU:CB	1.91	1.00
1:D:1000:ARG:NE	1:D:1016:ARG:HD2	1.75	1.00
1:A:1000:ARG:NH2	1:A:1016:ARG:CG	2.24	1.00
1:B:4848:UNK:O	1:B:4852:UNK:N	1.95	1.00
1:C:728:ARG:CB	1:C:1134:LEU:CD2	2.40	1.00
1:D:4091:UNK:O	1:D:4095:UNK:N	1.94	1.00
1:A:4848:UNK:O	1:A:4852:UNK:N	1.95	1.00
1:B:4831:UNK:O	1:B:4835:UNK:N	1.95	1.00
1:C:222:LEU:CD2	1:C:390:LEU:HD21	1.92	1.00
1:B:4091:UNK:O	1:B:4095:UNK:N	1.94	1.00
1:D:84:ASN:HA	1:D:87:GLU:HB2	1.00	1.00
1:D:728:ARG:CB	1:D:1134:LEU:CD2	2.40	1.00
1:D:753:PRO:HG2	1:D:773:LEU:HD11	1.43	1.00
1:D:4848:UNK:O	1:D:4852:UNK:N	1.95	1.00
1:A:84:ASN:HA	1:A:87:GLU:CB	1.91	0.99
1:A:222:LEU:CD2	1:A:390:LEU:HD21	1.92	0.99
1:A:752:VAL:HG21	1:A:754:SER:HB2	1.42	0.99
1:B:956:PRO:HD3	1:B:959:TYR:HD2	1.19	0.99
1:C:3316:UNK:C	1:C:3322:UNK:CB	2.38	0.99
1:C:4091:UNK:O	1:C:4095:UNK:N	1.94	0.99
1:A:1452:TRP:HZ3	1:A:1527:MET:HB3	1.21	0.99
1:B:84:ASN:HA	1:B:87:GLU:CB	1.92	0.99
1:B:993:HIS:HA	1:B:996:TRP:CE3	1.82	0.99
1:D:956:PRO:HD2	1:D:959:TYR:CG	1.97	0.99
1:A:426:ARG:NH2	1:A:796:ARG:HH22	1.55	0.99
1:C:1444:GLU:OE1	1:C:1478:ASP:HB2	1.61	0.99
1:D:222:LEU:CD2	1:D:390:LEU:HD21	1.92	0.99
1:D:479:GLN:NE2	1:D:534:UNK:N	2.09	0.99
1:A:4831:UNK:O	1:A:4835:UNK:N	1.95	0.99
1:C:76:ARG:NH1	1:D:3930:UNK:C	2.24	0.99
1:C:1000:ARG:NH2	1:C:1016:ARG:CG	2.24	0.99
1:B:4113:UNK:HA	1:B:4116:UNK:CB	1.92	0.99
1:D:753:PRO:HG3	1:D:773:LEU:HD13	1.38	0.99
1:C:1438:ARG:CA	1:C:1515:VAL:HG13	1.92	0.99
1:C:4848:UNK:O	1:C:4852:UNK:N	1.95	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1438:ARG:CA	1:D:1515:VAL:HG13	1.92	0.99
1:D:1444:GLU:OE1	1:D:1478:ASP:HB2	1.61	0.99
1:A:1444:GLU:OE1	1:A:1478:ASP:HB2	1.61	0.99
1:B:4884:UNK:CB	1:C:4583:UNK:O	2.07	0.99
1:C:207:SER:HA	1:C:269:TRP:HZ3	1.27	0.99
1:C:657:THR:CG2	1:C:662:TRP:CE2	2.46	0.99
1:C:1474:VAL:HG23	1:C:1540:PHE:HE2	1.28	0.99
1:B:1432:THR:O	1:B:1570:LYS:O	1.78	0.99
1:B:1438:ARG:CA	1:B:1515:VAL:HG13	1.92	0.99
1:C:479:GLN:NE2	1:C:534:UNK:N	2.09	0.99
1:A:728:ARG:CB	1:A:1134:LEU:CD2	2.40	0.99
1:A:993:HIS:HA	1:A:996:TRP:CE3	1.82	0.99
1:A:4113:UNK:HA	1:A:4116:UNK:CB	1.92	0.99
1:B:728:ARG:CB	1:B:1134:LEU:CD2	2.40	0.99
1:B:728:ARG:HD2	1:B:1134:LEU:HB2	1.45	0.99
1:B:1021:LEU:O	1:B:1022:VAL:HG13	1.61	0.99
1:B:1444:GLU:OE1	1:B:1478:ASP:HB2	1.61	0.99
1:D:317:ARG:NH2	1:D:322:LYS:CA	2.20	0.99
1:D:657:THR:CB	1:D:662:TRP:CE2	2.45	0.99
1:B:84:ASN:HA	1:B:87:GLU:HB2	1.00	0.98
1:D:1021:LEU:O	1:D:1022:VAL:HG22	1.61	0.98
1:A:207:SER:OG	1:A:269:TRP:CZ3	2.16	0.98
1:A:479:GLN:NE2	1:A:534:UNK:N	2.09	0.98
1:B:1000:ARG:HE	1:B:1016:ARG:HG2	1.27	0.98
1:B:1000:ARG:CZ	1:B:1007:TYR:OH	2.11	0.98
1:C:1018:ASN:O	1:C:1021:LEU:HD22	1.64	0.98
1:D:657:THR:CG2	1:D:662:TRP:CE2	2.46	0.98
1:A:657:THR:CB	1:A:662:TRP:CE2	2.45	0.98
1:D:956:PRO:CG	1:D:959:TYR:CG	2.44	0.98
1:B:1022:VAL:O	1:B:1022:VAL:HG23	1.63	0.98
1:C:753:PRO:HG2	1:C:773:LEU:HD11	1.42	0.98
1:A:84:ASN:HA	1:A:87:GLU:HB2	1.00	0.98
1:A:728:ARG:HD2	1:A:1134:LEU:HB2	1.45	0.98
1:B:84:ASN:CA	1:B:87:GLU:HB2	1.93	0.98
1:B:1452:TRP:HZ3	1:B:1527:MET:HB3	1.20	0.98
1:C:84:ASN:HA	1:C:87:GLU:HB2	1.00	0.98
1:C:956:PRO:HD2	1:C:959:TYR:CG	1.97	0.98
1:D:1000:ARG:CZ	1:D:1007:TYR:OH	2.12	0.98
1:D:4831:UNK:O	1:D:4835:UNK:N	1.95	0.98
1:A:84:ASN:CA	1:A:87:GLU:HB2	1.93	0.98
1:A:1000:ARG:HE	1:A:1016:ARG:HG2	1.27	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:479:GLN:NE2	1:B:534:UNK:N	2.09	0.98
1:C:84:ASN:HA	1:C:87:GLU:CB	1.92	0.98
1:C:1004:GLY:HA2	1:C:1007:TYR:CD1	1.98	0.98
1:C:1017:ARG:HH11	1:C:1017:ARG:CG	1.74	0.98
1:A:1000:ARG:CZ	1:A:1007:TYR:OH	2.11	0.98
1:A:1438:ARG:CA	1:A:1515:VAL:HG13	1.92	0.98
1:B:752:VAL:HG21	1:B:754:SER:HB2	1.42	0.98
1:C:1022:VAL:O	1:C:1022:VAL:HG23	1.63	0.98
1:D:207:SER:OG	1:D:269:TRP:CZ3	2.16	0.98
1:A:956:PRO:CG	1:A:959:TYR:CG	2.44	0.98
1:B:207:SER:OG	1:B:269:TRP:CZ3	2.16	0.98
1:B:657:THR:CG2	1:B:662:TRP:CE2	2.46	0.98
1:B:1017:ARG:CG	1:B:1017:ARG:HH11	1.74	0.98
1:B:956:PRO:HD2	1:B:959:TYR:CG	1.97	0.97
1:B:3673:UNK:O	1:B:3680:UNK:N	1.97	0.97
1:A:3673:UNK:O	1:A:3680:UNK:N	1.97	0.97
1:A:4561:UNK:CB	1:A:4565:UNK:CB	2.42	0.97
1:D:84:ASN:CA	1:D:87:GLU:HB2	1.93	0.97
1:A:1450:VAL:O	1:A:1529:PHE:CZ	2.18	0.97
1:B:1474:VAL:HG23	1:B:1540:PHE:HE2	1.27	0.97
1:C:21:VAL:HG13	1:C:205:ILE:CD1	1.95	0.97
1:C:1000:ARG:CZ	1:C:1007:TYR:OH	2.11	0.97
1:D:1450:VAL:O	1:D:1529:PHE:CZ	2.17	0.97
1:A:657:THR:CG2	1:A:662:TRP:CE2	2.46	0.97
1:B:1004:GLY:HA2	1:B:1007:TYR:CD1	1.98	0.97
1:C:207:SER:OG	1:C:269:TRP:CZ3	2.17	0.97
1:C:1000:ARG:HE	1:C:1016:ARG:HG2	1.27	0.97
1:D:1474:VAL:HG23	1:D:1540:PHE:HE2	1.28	0.97
1:A:956:PRO:HD2	1:A:959:TYR:CG	1.97	0.97
1:B:954:LYS:HB3	1:B:971:ASP:CG	1.85	0.97
1:C:4831:UNK:O	1:C:4835:UNK:N	1.96	0.97
1:D:1000:ARG:HE	1:D:1016:ARG:HG2	1.27	0.97
1:D:1004:GLY:HA2	1:D:1007:TYR:CD1	1.98	0.97
1:A:1474:VAL:HG23	1:A:1540:PHE:HE2	1.28	0.97
1:B:207:SER:HA	1:B:269:TRP:HZ3	1.27	0.97
1:C:728:ARG:HD2	1:C:1134:LEU:HB2	1.45	0.97
1:D:728:ARG:HD2	1:D:1134:LEU:HB2	1.45	0.97
1:A:1004:GLY:HA2	1:A:1007:TYR:CD1	1.98	0.97
1:A:21:VAL:HG13	1:A:205:ILE:CD1	1.95	0.97
1:B:1018:ASN:O	1:B:1021:LEU:HD22	1.64	0.97
1:D:752:VAL:CG1	1:D:769:GLU:CB	2.40	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4561:UNK:CB	1:B:4565:UNK:CB	2.42	0.96
1:D:2296:UNK:CA	1:D:2352:UNK:CB	2.43	0.96
1:D:4561:UNK:CB	1:D:4565:UNK:CB	2.42	0.96
1:B:752:VAL:CG1	1:B:769:GLU:CB	2.40	0.96
1:C:993:HIS:CA	1:C:996:TRP:CE3	2.42	0.96
1:D:3673:UNK:O	1:D:3680:UNK:N	1.97	0.96
1:A:1000:ARG:NH2	1:A:1016:ARG:HG2	1.81	0.96
1:D:1022:VAL:O	1:D:1022:VAL:HG23	1.63	0.96
1:C:1000:ARG:NH2	1:C:1016:ARG:HG2	1.81	0.96
1:D:207:SER:HA	1:D:269:TRP:HZ3	1.27	0.96
1:D:21:VAL:HG13	1:D:205:ILE:CD1	1.95	0.96
1:D:752:VAL:HG21	1:D:754:SER:HB2	1.42	0.96
1:B:1476:MET:HE1	1:B:1516:ILE:HD11	1.46	0.96
1:D:1018:ASN:O	1:D:1021:LEU:HD22	1.64	0.96
1:D:954:LYS:HB3	1:D:971:ASP:CG	1.85	0.96
1:A:1022:VAL:O	1:A:1022:VAL:HG23	1.63	0.96
1:B:1474:VAL:CG2	1:B:1540:PHE:HE2	1.79	0.96
1:C:3673:UNK:O	1:C:3680:UNK:N	1.97	0.96
1:C:4561:UNK:CB	1:C:4565:UNK:CB	2.42	0.96
1:A:1018:ASN:O	1:A:1021:LEU:HD22	1.64	0.95
1:A:1813:UNK:O	1:A:1817:UNK:O	1.84	0.95
1:A:2296:UNK:CA	1:A:2352:UNK:CB	2.43	0.95
1:C:956:PRO:HG3	1:C:959:TYR:CD1	1.94	0.95
1:A:954:LYS:HB3	1:A:971:ASP:CG	1.85	0.95
1:B:1450:VAL:O	1:B:1529:PHE:CZ	2.18	0.95
1:C:954:LYS:HB3	1:C:971:ASP:CG	1.85	0.95
1:C:1813:UNK:O	1:C:1817:UNK:O	1.84	0.95
1:B:426:ARG:NH2	1:B:796:ARG:HH22	1.55	0.95
1:C:84:ASN:CA	1:C:87:GLU:HB2	1.93	0.95
1:D:1004:GLY:CA	1:D:1007:TYR:CZ	2.50	0.95
1:D:1813:UNK:O	1:D:1817:UNK:O	1.84	0.95
1:A:1434:TYR:CD1	1:A:1570:LYS:HD2	2.02	0.95
1:B:1002:ALA:HA	1:B:1005:TRP:HD1	1.30	0.95
1:C:1450:VAL:O	1:C:1529:PHE:CZ	2.18	0.95
1:A:1474:VAL:CG2	1:A:1540:PHE:HE2	1.80	0.95
1:B:1000:ARG:NH2	1:B:1016:ARG:HG2	1.81	0.95
1:B:1813:UNK:O	1:B:1817:UNK:O	1.84	0.95
1:D:207:SER:N	1:D:269:TRP:CE3	2.34	0.95
1:D:956:PRO:HD3	1:D:959:TYR:HD2	1.19	0.95
1:D:1434:TYR:CD1	1:D:1570:LYS:HD2	2.02	0.95
1:A:1004:GLY:CA	1:A:1007:TYR:CZ	2.49	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:21:VAL:HG13	1:B:205:ILE:CD1	1.95	0.95
1:C:956:PRO:CG	1:C:959:TYR:CG	2.44	0.95
1:A:317:ARG:NH2	1:A:322:LYS:CA	2.20	0.95
1:A:956:PRO:CG	1:A:959:TYR:CD2	2.50	0.95
1:C:956:PRO:HG2	1:C:959:TYR:CD1	2.02	0.95
1:B:1000:ARG:HH21	1:B:1016:ARG:HG2	1.29	0.95
1:B:2296:UNK:CA	1:B:2352:UNK:CB	2.43	0.95
1:D:998:ARG:CD	1:D:999:ASP:N	2.30	0.95
1:B:207:SER:N	1:B:269:TRP:CE3	2.34	0.95
1:C:998:ARG:CD	1:C:999:ASP:N	2.30	0.95
1:C:1017:ARG:N	1:C:1017:ARG:CD	2.30	0.95
1:C:207:SER:N	1:C:269:TRP:CE3	2.34	0.94
1:C:317:ARG:NH2	1:C:322:LYS:CA	2.20	0.94
1:C:1017:ARG:HH11	1:C:1017:ARG:CB	1.80	0.94
1:D:1000:ARG:NE	1:D:1016:ARG:HG2	1.81	0.94
1:D:1016:ARG:NH1	1:D:1016:ARG:CB	2.30	0.94
1:B:956:PRO:CG	1:B:959:TYR:CD2	2.50	0.94
1:C:1000:ARG:NE	1:C:1016:ARG:HG2	1.81	0.94
1:C:1474:VAL:CG2	1:C:1540:PHE:HE2	1.80	0.94
1:D:1000:ARG:NH2	1:D:1016:ARG:HG2	1.81	0.94
1:A:207:SER:N	1:A:269:TRP:CE3	2.34	0.94
1:A:207:SER:HA	1:A:269:TRP:HZ3	1.27	0.94
1:A:1000:ARG:NE	1:A:1016:ARG:HG2	1.81	0.94
1:A:1454:THR:HB	1:A:1455:PRO:HD2	1.49	0.94
1:B:1016:ARG:NH1	1:B:1016:ARG:CB	2.30	0.94
1:B:1017:ARG:HH11	1:B:1017:ARG:CB	1.80	0.94
1:B:1454:THR:HB	1:B:1455:PRO:HD2	1.49	0.94
1:C:956:PRO:CG	1:C:959:TYR:CD2	2.50	0.94
1:C:1002:ALA:HA	1:C:1005:TRP:HD1	1.30	0.94
1:D:1474:VAL:CG2	1:D:1540:PHE:HE2	1.80	0.94
1:A:1016:ARG:NH1	1:A:1016:ARG:CB	2.30	0.94
1:B:1004:GLY:CA	1:B:1007:TYR:CZ	2.49	0.94
1:C:2296:UNK:CA	1:C:2352:UNK:CB	2.43	0.94
1:D:317:ARG:NH1	1:D:322:LYS:CA	2.29	0.94
1:D:1452:TRP:HZ3	1:D:1527:MET:HB3	1.20	0.94
1:A:1000:ARG:HH21	1:A:1016:ARG:HG2	1.29	0.94
1:A:995:VAL:O	1:A:998:ARG:HG3	1.68	0.94
1:B:1000:ARG:NE	1:B:1016:ARG:HG2	1.81	0.94
1:C:1452:TRP:CH2	1:C:1527:MET:CB	2.42	0.94
1:D:995:VAL:O	1:D:998:ARG:HG3	1.68	0.94
1:A:1017:ARG:N	1:A:1017:ARG:CD	2.30	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3899:UNK:C	1:A:3910:UNK:H2	1.81	0.94
1:B:1434:TYR:CD1	1:B:1570:LYS:HD2	2.02	0.94
1:B:1452:TRP:CH2	1:B:1527:MET:CB	2.42	0.94
1:B:3899:UNK:C	1:B:3910:UNK:H2	1.81	0.94
1:C:752:VAL:CG1	1:C:769:GLU:CB	2.40	0.94
1:D:1433:TYR:O	1:D:1520:VAL:O	1.86	0.94
1:A:317:ARG:NH1	1:A:322:LYS:CA	2.29	0.94
1:B:995:VAL:O	1:B:998:ARG:HG3	1.68	0.94
1:B:998:ARG:HH2	1:B:1002:ALA:HB3	1.32	0.94
1:C:995:VAL:O	1:C:998:ARG:HG3	1.68	0.94
1:D:1017:ARG:HH11	1:D:1017:ARG:CB	1.80	0.94
1:C:426:ARG:NH2	1:C:796:ARG:HH2	1.55	0.93
1:C:1434:TYR:CZ	1:C:1570:LYS:HD2	2.03	0.93
1:C:3899:UNK:C	1:C:3910:UNK:H2	1.81	0.93
1:D:1434:TYR:CZ	1:D:1570:LYS:HD2	2.03	0.93
1:D:3899:UNK:C	1:D:3910:UNK:H2	1.81	0.93
1:A:1433:TYR:O	1:A:1520:VAL:O	1.86	0.93
1:A:4583:UNK:O	1:D:4884:UNK:CB	2.06	0.93
1:B:1017:ARG:N	1:B:1017:ARG:CD	2.30	0.93
1:C:1016:ARG:NH1	1:C:1016:ARG:CB	2.30	0.93
1:C:2285:UNK:C	1:C:2286:UNK:N	2.32	0.93
1:A:1000:ARG:HG2	1:A:1018:ASN:ND2	1.84	0.93
1:A:1017:ARG:HH11	1:A:1017:ARG:CB	1.80	0.93
1:B:998:ARG:CD	1:B:999:ASP:N	2.30	0.93
1:D:1000:ARG:HG2	1:D:1018:ASN:ND2	1.83	0.93
1:C:1434:TYR:CD1	1:C:1570:LYS:HD2	2.02	0.93
1:A:752:VAL:CG1	1:A:769:GLU:CB	2.40	0.93
1:C:998:ARG:HH2	1:C:1002:ALA:HB3	1.32	0.93
1:D:4645:UNK:O	1:D:4649:UNK:N	2.02	0.93
1:A:728:ARG:CB	1:A:1134:LEU:HD2	1.99	0.93
1:B:956:PRO:HG2	1:B:959:TYR:CD1	2.02	0.93
1:C:1000:ARG:HG2	1:C:1018:ASN:ND2	1.84	0.93
1:C:4884:UNK:CB	1:D:4583:UNK:O	2.09	0.93
1:A:4645:UNK:O	1:A:4649:UNK:N	2.02	0.93
1:B:1434:TYR:CZ	1:B:1570:LYS:HD2	2.03	0.93
1:D:998:ARG:HH2	1:D:1002:ALA:HB3	1.32	0.93
1:D:1450:VAL:HG13	1:D:1518:CYS:SG	2.09	0.93
1:A:998:ARG:CD	1:A:999:ASP:N	2.30	0.93
1:A:2285:UNK:C	1:A:2286:UNK:N	2.32	0.93
1:C:1000:ARG:HH21	1:C:1016:ARG:HG2	1.29	0.93
1:C:1452:TRP:HZ3	1:C:1527:MET:HB3	1.20	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4645:UNK:O	1:C:4649:UNK:N	2.02	0.93
1:D:956:PRO:CG	1:D:959:TYR:CD2	2.50	0.93
1:A:1434:TYR:CZ	1:A:1570:LYS:HD2	2.03	0.92
1:B:1000:ARG:HG2	1:B:1018:ASN:ND2	1.84	0.92
1:D:1017:ARG:N	1:D:1017:ARG:CD	2.30	0.92
1:A:954:LYS:HB3	1:A:971:ASP:OD2	1.70	0.92
1:A:1020:ARG:HA	1:A:1020:ARG:HE	1.34	0.92
1:B:1433:TYR:O	1:B:1520:VAL:O	1.86	0.92
1:D:728:ARG:CB	1:D:1134:LEU:HD22	1.99	0.92
1:C:1004:GLY:CA	1:C:1007:TYR:CZ	2.50	0.92
1:B:317:ARG:NH2	1:B:322:LYS:CA	2.20	0.92
1:B:1017:ARG:NH1	1:B:1017:ARG:HA	1.85	0.92
1:B:1450:VAL:HG13	1:B:1518:CYS:SG	2.09	0.92
1:B:2611:UNK:CB	1:B:2685:UNK:CB	2.48	0.92
1:C:1433:TYR:O	1:C:1520:VAL:O	1.86	0.92
1:D:956:PRO:HG2	1:D:959:TYR:CD1	2.02	0.92
1:A:1450:VAL:HG13	1:A:1518:CYS:SG	2.09	0.92
1:B:4645:UNK:O	1:B:4649:UNK:N	2.02	0.92
1:D:75:VAL:HG13	1:D:76:ARG:H	1.35	0.92
1:A:956:PRO:HG2	1:A:959:TYR:CD1	2.02	0.92
1:B:728:ARG:CB	1:B:1134:LEU:HD22	1.99	0.92
1:B:728:ARG:NH1	1:B:1133:HIS:CG	2.16	0.92
1:C:1454:THR:HB	1:C:1455:PRO:HD2	1.49	0.92
1:C:2611:UNK:CB	1:C:2685:UNK:CB	2.48	0.92
1:D:954:LYS:HB3	1:D:971:ASP:OD2	1.70	0.92
1:A:75:VAL:O	1:A:79:GLN:NE2	2.03	0.92
1:A:998:ARG:HH22	1:A:1002:ALA:HB3	1.32	0.92
1:B:2285:UNK:C	1:B:2286:UNK:N	2.32	0.92
1:C:1450:VAL:HG13	1:C:1518:CYS:SG	2.09	0.92
1:D:1454:THR:HB	1:D:1455:PRO:HD2	1.48	0.92
1:D:2285:UNK:C	1:D:2286:UNK:N	2.32	0.92
1:A:80:GLU:OE1	1:B:3932:UNK:CA	2.18	0.92
1:A:1476:MET:HE1	1:A:1516:ILE:HD11	1.49	0.92
1:B:75:VAL:HG13	1:B:76:ARG:H	1.35	0.92
1:B:207:SER:N	1:B:269:TRP:HZ3	1.60	0.92
1:C:75:VAL:O	1:C:79:GLN:NE2	2.03	0.92
1:C:954:LYS:HB3	1:C:971:ASP:OD2	1.70	0.92
1:C:998:ARG:NH2	1:C:1002:ALA:CB	2.30	0.92
1:C:1439:VAL:H	1:C:1515:VAL:CA	1.83	0.92
1:B:956:PRO:CG	1:B:959:TYR:CG	2.44	0.92
1:C:999:ASP:O	1:C:1003:GLN:HG2	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:75:VAL:HG13	1:A:76:ARG:H	1.35	0.91
1:A:657:THR:HG21	1:A:662:TRP:CE2	2.05	0.91
1:A:1017:ARG:NH1	1:A:1017:ARG:HA	1.85	0.91
1:D:1000:ARG:HH21	1:D:1016:ARG:HG2	1.29	0.91
1:D:2611:UNK:CB	1:D:2685:UNK:CB	2.48	0.91
1:A:3932:UNK:CA	1:D:80:GLU:OE1	2.18	0.91
1:A:4732:UNK:O	1:A:4736:UNK:N	2.04	0.91
1:B:954:LYS:HB3	1:B:971:ASP:OD2	1.70	0.91
1:B:998:ARG:NH2	1:B:1002:ALA:CB	2.30	0.91
1:C:1437:VAL:HG21	1:C:1518:CYS:HB2	1.52	0.91
1:B:317:ARG:NH1	1:B:322:LYS:CA	2.29	0.91
1:B:1020:ARG:HA	1:B:1020:ARG:HE	1.34	0.91
1:B:4732:UNK:O	1:B:4736:UNK:N	2.04	0.91
1:A:1437:VAL:HG21	1:A:1518:CYS:HB2	1.52	0.91
1:B:80:GLU:OE1	1:C:3932:UNK:CA	2.18	0.91
1:B:1437:VAL:HG21	1:B:1518:CYS:HB2	1.52	0.91
1:C:728:ARG:CB	1:C:1134:LEU:HD22	1.99	0.91
1:D:75:VAL:O	1:D:79:GLN:NE2	2.03	0.91
1:D:999:ASP:O	1:D:1003:GLN:HG2	1.70	0.91
1:A:2611:UNK:CB	1:A:2685:UNK:CB	2.48	0.91
1:A:4854:UNK:O	1:A:4858:UNK:N	2.04	0.91
1:C:75:VAL:HG13	1:C:76:ARG:H	1.34	0.91
1:A:728:ARG:NH1	1:A:1133:HIS:CG	2.16	0.91
1:A:1439:VAL:H	1:A:1515:VAL:CA	1.83	0.91
1:B:1474:VAL:CG2	1:B:1540:PHE:CE2	2.54	0.91
1:C:4732:UNK:O	1:C:4736:UNK:N	2.04	0.91
1:D:4732:UNK:O	1:D:4736:UNK:N	2.04	0.91
1:A:999:ASP:O	1:A:1003:GLN:HG2	1.70	0.90
1:A:1020:ARG:HH11	1:A:1024:TYR:HA	1.08	0.90
1:C:956:PRO:HD3	1:C:959:TYR:HD2	1.19	0.90
1:B:1002:ALA:CA	1:B:1005:TRP:CD1	2.54	0.90
1:D:1002:ALA:CA	1:D:1005:TRP:CD1	2.54	0.90
1:B:3900:UNK:CA	1:B:3910:UNK:CB	2.48	0.90
1:A:1002:ALA:CA	1:A:1005:TRP:CD1	2.54	0.90
1:A:1474:VAL:CG2	1:A:1540:PHE:CE2	2.54	0.90
1:A:4884:UNK:CB	1:B:4583:UNK:O	2.07	0.90
1:C:317:ARG:NH1	1:C:322:LYS:CA	2.29	0.90
1:A:1002:ALA:HA	1:A:1005:TRP:HD1	1.30	0.90
1:B:75:VAL:O	1:B:79:GLN:NE2	2.03	0.90
1:B:999:ASP:O	1:B:1003:GLN:HG2	1.70	0.90
1:D:1017:ARG:NH1	1:D:1017:ARG:HA	1.85	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1437:VAL:HG21	1:D:1518:CYS:HB2	1.52	0.90
1:D:1474:VAL:CG2	1:D:1540:PHE:CE2	2.54	0.90
1:C:1017:ARG:HA	1:C:1017:ARG:NH1	1.85	0.90
1:B:4854:UNK:O	1:B:4858:UNK:N	2.04	0.90
1:C:1002:ALA:CA	1:C:1005:TRP:CD1	2.54	0.90
1:C:4854:UNK:O	1:C:4858:UNK:N	2.04	0.90
1:D:4854:UNK:O	1:D:4858:UNK:N	2.04	0.90
1:D:207:SER:N	1:D:269:TRP:HZ3	1.60	0.90
1:D:1439:VAL:H	1:D:1515:VAL:CA	1.83	0.90
1:B:323:LEU:HD22	1:B:323:LEU:H	1.37	0.90
1:D:1002:ALA:HA	1:D:1005:TRP:HD1	1.30	0.89
1:A:855:PRO:HG3	1:A:994:ASN:C	1.93	0.89
1:C:80:GLU:OE1	1:D:3932:UNK:CA	2.20	0.89
1:D:1020:ARG:HH11	1:D:1024:TYR:HA	1.08	0.89
1:B:3205:UNK:HA	1:B:3208:UNK:CB	2.03	0.89
1:A:3895:UNK:O	1:A:3899:UNK:N	2.06	0.89
1:B:3268:UNK:H	1:B:3271:UNK:CB	1.86	0.89
1:C:728:ARG:NH1	1:C:1133:HIS:CG	2.16	0.89
1:D:1450:VAL:CG1	1:D:1518:CYS:SG	2.61	0.89
1:D:3894:UNK:O	1:D:3898:UNK:CB	2.21	0.89
1:A:993:HIS:CA	1:A:996:TRP:CE3	2.42	0.89
1:B:1439:VAL:H	1:B:1515:VAL:CA	1.83	0.89
1:B:3895:UNK:O	1:B:3899:UNK:N	2.06	0.89
1:C:479:GLN:NE2	1:C:534:UNK:H2	1.70	0.89
1:C:3567:UNK:O	1:C:3570:UNK:O	1.91	0.89
1:B:4645:UNK:HA	1:B:4648:UNK:CB	2.02	0.89
1:D:855:PRO:HG3	1:D:994:ASN:C	1.93	0.89
1:B:3894:UNK:O	1:B:3898:UNK:CB	2.21	0.89
1:D:3205:UNK:HA	1:D:3208:UNK:CB	2.03	0.89
1:C:855:PRO:HG3	1:C:994:ASN:C	1.93	0.89
1:C:1450:VAL:CG1	1:C:1518:CYS:SG	2.61	0.89
1:C:1474:VAL:CG2	1:C:1540:PHE:CE2	2.54	0.89
1:A:3894:UNK:O	1:A:3898:UNK:CB	2.21	0.89
1:C:3268:UNK:H	1:C:3271:UNK:CB	1.86	0.88
1:D:3268:UNK:H	1:D:3271:UNK:CB	1.86	0.88
1:D:4645:UNK:HA	1:D:4648:UNK:CB	2.03	0.88
1:D:4712:UNK:O	1:D:4720:UNK:N	1.94	0.88
1:A:1020:ARG:HH12	1:A:1024:TYR:HA	1.35	0.88
1:A:1450:VAL:CG1	1:A:1518:CYS:SG	2.61	0.88
1:B:3567:UNK:O	1:B:3570:UNK:O	1.91	0.88
1:C:323:LEU:HD22	1:C:323:LEU:H	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:3900:UNK:CA	1:D:3910:UNK:CB	2.48	0.88
1:C:3205:UNK:HA	1:C:3208:UNK:CB	2.03	0.88
1:A:207:SER:N	1:A:269:TRP:HZ3	1.60	0.88
1:A:479:GLN:NE2	1:A:534:UNK:H2	1.70	0.88
1:A:3205:UNK:HA	1:A:3208:UNK:CB	2.03	0.88
1:A:4730:UNK:O	1:A:4731:UNK:O	1.92	0.88
1:A:1444:GLU:OE1	1:A:1478:ASP:CB	2.22	0.88
1:A:4645:UNK:HA	1:A:4648:UNK:CB	2.03	0.88
1:B:1450:VAL:CG1	1:B:1518:CYS:SG	2.61	0.88
1:C:3894:UNK:O	1:C:3898:UNK:CB	2.21	0.88
1:C:4645:UNK:HA	1:C:4648:UNK:CB	2.03	0.88
1:D:1444:GLU:OE1	1:D:1478:ASP:CB	2.22	0.88
1:C:727:ALA:O	1:C:1134:LEU:HD21	1.74	0.88
1:C:4730:UNK:O	1:C:4731:UNK:O	1.92	0.88
1:D:479:GLN:NE2	1:D:534:UNK:H2	1.70	0.88
1:D:1000:ARG:CG	1:D:1018:ASN:ND2	2.37	0.88
1:B:1444:GLU:OE1	1:B:1478:ASP:CB	2.22	0.88
1:D:727:ALA:O	1:D:1134:LEU:HD21	1.74	0.88
1:A:323:LEU:H	1:A:323:LEU:HD22	1.37	0.88
1:B:1000:ARG:NE	1:B:1016:ARG:CD	2.37	0.88
1:B:1020:ARG:NH1	1:B:1024:TYR:CA	2.31	0.88
1:D:1020:ARG:HH12	1:D:1024:TYR:HA	1.35	0.88
1:C:4712:UNK:O	1:C:4720:UNK:N	1.94	0.88
1:D:998:ARG:NH2	1:D:1002:ALA:CB	2.30	0.88
1:A:3900:UNK:CA	1:A:3910:UNK:CB	2.48	0.87
1:C:1000:ARG:NE	1:C:1016:ARG:CD	2.37	0.87
1:D:86:VAL:HG22	1:D:87:GLU:OE1	1.74	0.87
1:D:323:LEU:H	1:D:323:LEU:HD22	1.37	0.87
1:D:1845:UNK:HA	1:D:1848:UNK:CB	2.04	0.87
1:B:1007:TYR:OH	1:B:1015:ALA:O	1.92	0.87
1:C:1020:ARG:HH11	1:C:1024:TYR:HA	1.08	0.87
1:A:1000:ARG:NE	1:A:1016:ARG:CD	2.37	0.87
1:A:1438:ARG:HA	1:A:1515:VAL:CG1	2.02	0.87
1:A:1474:VAL:HG23	1:A:1540:PHE:CE2	2.10	0.87
1:B:657:THR:HG21	1:B:662:TRP:CE2	2.05	0.87
1:C:3400:UNK:O	1:C:3404:UNK:N	2.08	0.87
1:A:3268:UNK:H	1:A:3271:UNK:CB	1.86	0.87
1:B:86:VAL:HG22	1:B:87:GLU:OE1	1.74	0.87
1:C:317:ARG:NH2	1:C:322:LYS:C	2.28	0.87
1:C:954:LYS:N	1:C:971:ASP:OD1	2.07	0.87
1:C:1000:ARG:CG	1:C:1018:ASN:ND2	2.37	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1476:MET:HE1	1:C:1516:ILE:CD1	2.05	0.87
1:D:317:ARG:NH2	1:D:322:LYS:C	2.28	0.87
1:D:657:THR:CG2	1:D:662:TRP:CH2	2.52	0.87
1:D:3400:UNK:O	1:D:3404:UNK:N	2.08	0.87
1:D:4730:UNK:O	1:D:4731:UNK:O	1.92	0.87
1:A:1000:ARG:CZ	1:A:1016:ARG:HG2	2.05	0.87
1:A:1459:GLN:HG2	1:A:1553:PHE:CD1	2.09	0.87
1:B:855:PRO:HG3	1:B:994:ASN:C	1.93	0.87
1:B:1000:ARG:CG	1:B:1018:ASN:ND2	2.37	0.87
1:C:83:ALA:O	1:C:86:VAL:HG13	1.75	0.87
1:D:1465:ASP:CA	1:D:1553:PHE:CD2	2.57	0.87
1:D:3895:UNK:O	1:D:3899:UNK:N	2.06	0.87
1:A:998:ARG:NH2	1:A:1002:ALA:CB	2.30	0.87
1:A:1845:UNK:HA	1:A:1848:UNK:CB	2.04	0.87
1:B:727:ALA:O	1:B:1134:LEU:HD21	1.74	0.87
1:B:1459:GLN:HG2	1:B:1553:PHE:CD1	2.09	0.87
1:B:4730:UNK:O	1:B:4731:UNK:O	1.92	0.87
1:C:1845:UNK:HA	1:C:1848:UNK:CB	2.05	0.87
1:A:727:ALA:O	1:A:1134:LEU:HD21	1.74	0.87
1:B:83:ALA:O	1:B:86:VAL:HG13	1.75	0.87
1:C:1007:TYR:OH	1:C:1015:ALA:O	1.92	0.87
1:C:1017:ARG:HD2	1:C:1017:ARG:H	1.39	0.87
1:C:1444:GLU:OE1	1:C:1478:ASP:CB	2.22	0.87
1:D:1476:MET:HE1	1:D:1516:ILE:HD11	1.53	0.87
1:A:1000:ARG:CG	1:A:1018:ASN:ND2	2.37	0.87
1:B:1017:ARG:HH11	1:B:1017:ARG:HG3	1.38	0.87
1:B:1465:ASP:CA	1:B:1553:PHE:CD2	2.57	0.87
1:B:1474:VAL:HG23	1:B:1540:PHE:CE2	2.10	0.87
1:C:3895:UNK:O	1:C:3899:UNK:N	2.06	0.87
1:D:83:ALA:O	1:D:86:VAL:HG13	1.75	0.87
1:A:86:VAL:HG22	1:A:87:GLU:OE1	1.74	0.87
1:B:956:PRO:HG3	1:B:959:TYR:CD1	1.94	0.87
1:D:1474:VAL:HG23	1:D:1540:PHE:CE2	2.10	0.87
1:B:479:GLN:NE2	1:B:534:UNK:H2	1.70	0.86
1:B:993:HIS:CA	1:B:996:TRP:CE3	2.42	0.86
1:C:86:VAL:HG22	1:C:87:GLU:OE1	1.74	0.86
1:B:4712:UNK:O	1:B:4720:UNK:N	1.94	0.86
1:C:855:PRO:HG3	1:C:994:ASN:O	1.76	0.86
1:C:1459:GLN:HG2	1:C:1553:PHE:CD1	2.09	0.86
1:D:3567:UNK:O	1:D:3570:UNK:O	1.91	0.86
1:A:954:LYS:N	1:A:971:ASP:OD1	2.07	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1434:TYR:CE1	1:A:1570:LYS:HB2	2.11	0.86
1:B:996:TRP:HZ2	1:B:1021:LEU:HD13	1.04	0.86
1:D:1000:ARG:NE	1:D:1016:ARG:CD	2.37	0.86
1:D:1000:ARG:CZ	1:D:1016:ARG:HG2	2.05	0.86
1:D:1020:ARG:HA	1:D:1020:ARG:HE	1.34	0.86
1:B:1434:TYR:CE1	1:B:1570:LYS:HB2	2.11	0.86
1:B:1845:UNK:HA	1:B:1848:UNK:CB	2.04	0.86
1:C:1017:ARG:HH11	1:C:1017:ARG:HG3	1.38	0.86
1:A:317:ARG:NH2	1:A:322:LYS:C	2.28	0.86
1:A:3567:UNK:O	1:A:3570:UNK:O	1.91	0.86
1:D:1017:ARG:HH11	1:D:1017:ARG:HG3	1.38	0.86
1:C:1465:ASP:CA	1:C:1553:PHE:CD2	2.57	0.86
1:C:1474:VAL:HG23	1:C:1540:PHE:CE2	2.10	0.86
1:C:3900:UNK:CA	1:C:3910:UNK:CB	2.48	0.86
1:D:954:LYS:N	1:D:971:ASP:OD1	2.07	0.86
1:D:1017:ARG:HD2	1:D:1017:ARG:H	1.39	0.86
1:A:728:ARG:CZ	1:A:1119:GLU:HA	2.06	0.86
1:A:855:PRO:HG3	1:A:994:ASN:O	1.76	0.86
1:A:1465:ASP:CA	1:A:1553:PHE:CD2	2.57	0.86
1:B:1000:ARG:CZ	1:B:1016:ARG:HG2	2.05	0.86
1:C:111:HIS:HD2	1:C:114:SER:H	1.23	0.86
1:D:82:LEU:O	1:D:85:THR:OG1	1.94	0.86
1:A:545:UNK:HA	1:A:548:UNK:CB	2.06	0.86
1:A:657:THR:CG2	1:A:662:TRP:CH2	2.52	0.86
1:B:317:ARG:NH2	1:B:322:LYS:C	2.28	0.86
1:B:1020:ARG:HH11	1:B:1024:TYR:HA	1.08	0.86
1:D:728:ARG:NH1	1:D:1133:HIS:CG	2.16	0.86
1:B:545:UNK:HA	1:B:548:UNK:CB	2.06	0.86
1:D:1459:GLN:HG2	1:D:1553:PHE:CD1	2.09	0.86
1:B:3400:UNK:O	1:B:3404:UNK:N	2.08	0.86
1:C:1000:ARG:CZ	1:C:1016:ARG:HG2	2.05	0.86
1:A:4712:UNK:O	1:A:4720:UNK:N	1.94	0.85
1:B:752:VAL:CG1	1:B:769:GLU:CD	2.44	0.85
1:C:3804:UNK:H	1:C:3807:UNK:CB	1.89	0.85
1:D:111:HIS:HD2	1:D:114:SER:H	1.23	0.85
1:D:752:VAL:CG1	1:D:769:GLU:CD	2.44	0.85
1:B:728:ARG:CZ	1:B:1119:GLU:HA	2.06	0.85
1:B:855:PRO:HG3	1:B:994:ASN:O	1.76	0.85
1:B:2299:UNK:CB	1:B:2352:UNK:CB	2.54	0.85
1:D:728:ARG:CZ	1:D:1119:GLU:HA	2.06	0.85
1:D:1020:ARG:NH1	1:D:1024:TYR:CA	2.31	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1434:TYR:CE1	1:D:1570:LYS:HB2	2.11	0.85
1:D:1450:VAL:C	1:D:1529:PHE:CZ	2.50	0.85
1:A:998:ARG:C	1:A:998:ARG:NE	2.30	0.85
1:A:1017:ARG:HH11	1:A:1017:ARG:HG3	1.38	0.85
1:A:1450:VAL:C	1:A:1529:PHE:CZ	2.50	0.85
1:C:752:VAL:CG1	1:C:769:GLU:CG	2.49	0.85
1:C:2299:UNK:CB	1:C:2352:UNK:CB	2.54	0.85
1:D:3804:UNK:H	1:D:3807:UNK:CB	1.89	0.85
1:A:83:ALA:O	1:A:86:VAL:HG13	1.75	0.85
1:B:1450:VAL:C	1:B:1529:PHE:CZ	2.50	0.85
1:A:996:TRP:HZ2	1:A:1021:LEU:HD13	1.04	0.85
1:A:3400:UNK:O	1:A:3404:UNK:N	2.08	0.85
1:B:998:ARG:C	1:B:998:ARG:NE	2.30	0.85
1:B:1438:ARG:HA	1:B:1515:VAL:CG1	2.02	0.85
1:D:1000:ARG:HH21	1:D:1016:ARG:CG	1.73	0.85
1:D:1007:TYR:OH	1:D:1015:ALA:O	1.92	0.85
1:D:1016:ARG:C	1:D:1017:ARG:NE	2.30	0.85
1:C:728:ARG:CZ	1:C:1119:GLU:HA	2.06	0.85
1:D:321:GLU:OE1	1:D:321:GLU:N	2.10	0.85
1:B:111:HIS:HD2	1:B:114:SER:H	1.23	0.85
1:B:1003:GLN:O	1:B:1007:TYR:CD2	2.30	0.85
1:D:855:PRO:HG3	1:D:994:ASN:O	1.75	0.85
1:A:1003:GLN:O	1:A:1007:TYR:CD2	2.30	0.85
1:A:3804:UNK:H	1:A:3807:UNK:CB	1.89	0.85
1:B:82:LEU:O	1:B:85:THR:OG1	1.94	0.85
1:B:1007:TYR:CD1	1:B:1007:TYR:O	2.30	0.85
1:B:1016:ARG:C	1:B:1017:ARG:NE	2.30	0.85
1:C:752:VAL:CG1	1:C:769:GLU:CD	2.44	0.85
1:C:1001:VAL:O	1:C:1005:TRP:CE2	2.30	0.85
1:D:1001:VAL:O	1:D:1005:TRP:CE2	2.30	0.85
1:D:1438:ARG:HA	1:D:1515:VAL:CG1	2.02	0.85
1:A:1007:TYR:CD1	1:A:1007:TYR:O	2.30	0.85
1:C:545:UNK:HA	1:C:548:UNK:CB	2.06	0.85
1:C:1434:TYR:CE1	1:C:1570:LYS:HB2	2.11	0.85
1:A:1007:TYR:OH	1:A:1015:ALA:O	1.92	0.85
1:B:321:GLU:OE1	1:B:321:GLU:N	2.10	0.85
1:B:998:ARG:C	1:B:998:ARG:CZ	2.46	0.85
1:B:3986:UNK:HA	1:B:3989:UNK:CB	2.07	0.85
1:C:998:ARG:O	1:C:1001:VAL:HG12	1.77	0.85
1:C:1016:ARG:C	1:C:1017:ARG:NE	2.30	0.85
1:D:1003:GLN:O	1:D:1007:TYR:CD2	2.30	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:3986:UNK:HA	1:A:3989:UNK:CB	2.07	0.84
1:B:207:SER:HA	1:B:269:TRP:CZ3	2.08	0.84
1:B:1001:VAL:O	1:B:1005:TRP:CE2	2.30	0.84
1:B:3804:UNK:H	1:B:3807:UNK:CB	1.89	0.84
1:C:82:LEU:O	1:C:85:THR:OG1	1.94	0.84
1:C:1007:TYR:CD1	1:C:1007:TYR:O	2.30	0.84
1:A:479:GLN:OE1	1:A:537:UNK:CB	2.26	0.84
1:A:1001:VAL:O	1:A:1005:TRP:CE2	2.30	0.84
1:C:998:ARG:C	1:C:998:ARG:NE	2.30	0.84
1:C:1020:ARG:HH12	1:C:1024:TYR:HA	1.35	0.84
1:A:1016:ARG:C	1:A:1017:ARG:NE	2.30	0.84
1:A:1964:UNK:CB	1:A:2011:UNK:CB	2.56	0.84
1:B:1007:TYR:O	1:B:1007:TYR:HD1	1.60	0.84
1:B:1020:ARG:HH12	1:B:1024:TYR:HA	1.35	0.84
1:C:998:ARG:C	1:C:998:ARG:CZ	2.46	0.84
1:D:959:TYR:HB3	1:D:963:ASN:HD22	1.43	0.84
1:D:993:HIS:O	1:D:996:TRP:CE3	2.30	0.84
1:D:996:TRP:HZ2	1:D:1021:LEU:HD13	1.04	0.84
1:D:998:ARG:C	1:D:998:ARG:NE	2.30	0.84
1:B:657:THR:CG2	1:B:662:TRP:CH2	2.52	0.84
1:B:993:HIS:O	1:B:996:TRP:CE3	2.30	0.84
1:C:321:GLU:OE1	1:C:321:GLU:N	2.10	0.84
1:C:959:TYR:HB3	1:C:963:ASN:HD22	1.43	0.84
1:C:1020:ARG:HA	1:C:1020:ARG:HE	1.34	0.84
1:A:993:HIS:O	1:A:996:TRP:CE3	2.30	0.84
1:B:954:LYS:N	1:B:971:ASP:OD1	2.07	0.84
1:A:752:VAL:CG1	1:A:769:GLU:CD	2.44	0.84
1:A:2299:UNK:CB	1:A:2352:UNK:CB	2.54	0.84
1:C:1020:ARG:NH1	1:C:1024:TYR:CA	2.31	0.84
1:D:1001:VAL:O	1:D:1005:TRP:CD2	2.30	0.84
1:D:1007:TYR:CD1	1:D:1007:TYR:O	2.30	0.84
1:D:1964:UNK:CB	1:D:2011:UNK:CB	2.56	0.84
1:D:2299:UNK:CB	1:D:2352:UNK:CB	2.54	0.84
1:A:76:ARG:HA	1:A:79:GLN:OE1	1.78	0.84
1:B:479:GLN:OE1	1:B:537:UNK:CB	2.26	0.84
1:B:1001:VAL:O	1:B:1005:TRP:CD2	2.30	0.84
1:C:479:GLN:OE1	1:C:537:UNK:CB	2.26	0.84
1:C:1001:VAL:O	1:C:1005:TRP:CD2	2.30	0.84
1:A:959:TYR:HB3	1:A:963:ASN:HD22	1.43	0.84
1:A:998:ARG:O	1:A:1001:VAL:HG12	1.77	0.84
1:B:76:ARG:HA	1:B:79:GLN:OE1	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1007:TYR:O	1:C:1007:TYR:HD1	1.60	0.84
1:D:479:GLN:OE1	1:D:537:UNK:CB	2.26	0.84
1:A:321:GLU:OE1	1:A:321:GLU:N	2.10	0.84
1:A:993:HIS:CE1	1:A:1020:ARG:HA	2.12	0.84
1:B:998:ARG:HD3	1:B:999:ASP:CG	1.98	0.84
1:B:998:ARG:O	1:B:1001:VAL:HG12	1.77	0.84
1:C:3986:UNK:HA	1:C:3989:UNK:CB	2.07	0.84
1:D:3986:UNK:HA	1:D:3989:UNK:CB	2.07	0.84
1:A:1001:VAL:O	1:A:1005:TRP:CD2	2.30	0.84
1:C:993:HIS:O	1:C:996:TRP:CE3	2.30	0.84
1:D:545:UNK:HA	1:D:548:UNK:CB	2.06	0.84
1:A:82:LEU:O	1:A:85:THR:OG1	1.94	0.83
1:A:657:THR:CB	1:A:662:TRP:CD2	2.61	0.83
1:C:1964:UNK:CB	1:C:2011:UNK:CB	2.55	0.83
1:B:1017:ARG:HD2	1:B:1017:ARG:H	1.39	0.83
1:D:998:ARG:C	1:D:998:ARG:CZ	2.45	0.83
1:B:1964:UNK:CB	1:B:2011:UNK:CB	2.56	0.83
1:C:1003:GLN:O	1:C:1007:TYR:CD2	2.30	0.83
1:A:998:ARG:HD3	1:A:999:ASP:CG	1.98	0.83
1:A:998:ARG:C	1:A:998:ARG:CZ	2.45	0.83
1:A:1017:ARG:HD2	1:A:1017:ARG:H	1.39	0.83
1:B:993:HIS:CE1	1:B:1020:ARG:HA	2.12	0.83
1:D:76:ARG:HA	1:D:79:GLN:OE1	1.78	0.83
1:A:728:ARG:CB	1:A:1134:LEU:HD23	2.07	0.83
1:B:4116:UNK:O	1:B:4123:UNK:HA	1.78	0.83
1:C:4116:UNK:O	1:C:4123:UNK:HA	1.78	0.83
1:D:993:HIS:CE1	1:D:1020:ARG:HA	2.13	0.83
1:B:1000:ARG:HD2	1:B:1000:ARG:O	1.79	0.83
1:C:998:ARG:HD3	1:C:999:ASP:CG	1.98	0.83
1:C:1450:VAL:C	1:C:1529:PHE:CZ	2.50	0.83
1:D:998:ARG:HD3	1:D:999:ASP:CG	1.98	0.83
1:A:752:VAL:CG1	1:A:769:GLU:CG	2.49	0.83
1:A:1007:TYR:O	1:A:1007:TYR:HD1	1.60	0.83
1:C:1000:ARG:O	1:C:1000:ARG:HD2	1.79	0.83
1:B:657:THR:CB	1:B:662:TRP:CD2	2.61	0.83
1:D:998:ARG:O	1:D:1001:VAL:HG12	1.77	0.83
1:C:207:SER:N	1:C:269:TRP:HZ3	1.60	0.82
1:D:752:VAL:HG11	1:D:769:GLU:HG2	1.61	0.82
1:D:368:ARG:HG2	1:D:368:ARG:NH1	1.94	0.82
1:D:993:HIS:CA	1:D:996:TRP:CE3	2.42	0.82
1:D:4116:UNK:O	1:D:4123:UNK:HA	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4116:UNK:O	1:A:4123:UNK:HA	1.78	0.82
1:B:4788:UNK:O	1:B:4792:UNK:N	2.13	0.82
1:C:752:VAL:HG11	1:C:769:GLU:HG2	1.61	0.82
1:D:4788:UNK:O	1:D:4792:UNK:N	2.13	0.82
1:C:76:ARG:HA	1:C:79:GLN:OE1	1.78	0.82
1:D:1017:ARG:NH1	1:D:1017:ARG:HG3	1.93	0.82
1:A:111:HIS:HD2	1:A:114:SER:H	1.23	0.82
1:C:4788:UNK:O	1:C:4792:UNK:N	2.13	0.82
1:D:1000:ARG:HD2	1:D:1000:ARG:O	1.79	0.82
1:B:322:LYS:HB3	1:B:323:LEU:C	2.00	0.82
1:B:959:TYR:HB3	1:B:963:ASN:HD22	1.43	0.82
1:C:1438:ARG:HA	1:C:1515:VAL:CG1	2.02	0.82
1:D:322:LYS:HB3	1:D:323:LEU:C	2.00	0.82
1:A:990:GLU:O	1:A:993:HIS:CB	2.28	0.81
1:A:1000:ARG:O	1:A:1000:ARG:HD2	1.79	0.81
1:B:728:ARG:CB	1:B:1134:LEU:HD23	2.07	0.81
1:A:322:LYS:HB3	1:A:323:LEU:C	2.01	0.81
1:B:990:GLU:O	1:B:993:HIS:CB	2.28	0.81
1:C:4818:UNK:H	1:C:4821:UNK:CB	1.93	0.81
1:D:1453:VAL:O	1:D:1548:LEU:HA	1.81	0.81
1:A:1453:VAL:O	1:A:1548:LEU:HA	1.81	0.81
1:B:752:VAL:CG1	1:B:769:GLU:CG	2.49	0.81
1:B:3265:UNK:O	1:B:3266:UNK:C	2.28	0.81
1:C:1020:ARG:HH11	1:C:1024:TYR:CA	1.91	0.81
1:D:4818:UNK:H	1:D:4821:UNK:CB	1.93	0.81
1:B:1000:ARG:NE	1:B:1016:ARG:CG	2.44	0.81
1:D:1007:TYR:O	1:D:1007:TYR:HD1	1.60	0.81
1:A:77:ALA:HA	1:A:80:GLU:OE2	1.81	0.81
1:A:4788:UNK:O	1:A:4792:UNK:N	2.12	0.81
1:B:576:UNK:HA	1:B:579:UNK:CB	2.11	0.81
1:B:1016:ARG:C	1:B:1017:ARG:CZ	2.49	0.81
1:B:1558:HIS:CD2	1:B:1559:GLN:H	1.99	0.81
1:C:1558:HIS:CD2	1:C:1559:GLN:H	1.99	0.81
1:D:990:GLU:O	1:D:993:HIS:CB	2.28	0.81
1:D:1000:ARG:NE	1:D:1016:ARG:CG	2.44	0.81
1:C:657:THR:CG2	1:C:662:TRP:CH2	2.52	0.81
1:A:76:ARG:HA	1:A:79:GLN:CD	2.02	0.81
1:A:1000:ARG:CZ	1:A:1016:ARG:CG	2.59	0.81
1:A:4818:UNK:H	1:A:4821:UNK:CB	1.93	0.81
1:B:4818:UNK:H	1:B:4821:UNK:CB	1.93	0.81
1:C:657:THR:CB	1:C:662:TRP:CD2	2.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3306:UNK:HA	1:C:3309:UNK:N	1.96	0.81
1:D:131:LEU:HB3	1:D:178:ARG:HH12	1.46	0.81
1:D:956:PRO:CD	1:D:959:TYR:CD1	2.58	0.81
1:A:1000:ARG:NE	1:A:1016:ARG:CG	2.44	0.81
1:C:953:THR:C	1:C:959:TYR:CD2	2.54	0.81
1:C:1000:ARG:NE	1:C:1016:ARG:CG	2.44	0.81
1:A:3265:UNK:O	1:A:3266:UNK:C	2.28	0.81
1:B:1437:VAL:HG21	1:B:1518:CYS:CB	2.11	0.81
1:B:2292:UNK:CB	1:B:2348:UNK:CB	2.59	0.81
1:B:3306:UNK:HA	1:B:3309:UNK:N	1.96	0.81
1:A:956:PRO:O	1:A:957:LYS:C	2.19	0.80
1:A:1016:ARG:C	1:A:1017:ARG:CZ	2.49	0.80
1:B:3316:UNK:CA	1:B:3322:UNK:CB	2.59	0.80
1:D:728:ARG:CB	1:D:1134:LEU:HD23	2.07	0.80
1:D:1001:VAL:C	1:D:1005:TRP:CE2	2.54	0.80
1:A:1000:ARG:HG2	1:A:1018:ASN:CG	2.01	0.80
1:A:1437:VAL:HG21	1:A:1518:CYS:CB	2.11	0.80
1:B:1020:ARG:HH11	1:B:1024:TYR:CA	1.91	0.80
1:D:953:THR:C	1:D:959:TYR:CD2	2.54	0.80
1:A:576:UNK:HA	1:A:579:UNK:CB	2.11	0.80
1:A:1001:VAL:C	1:A:1005:TRP:CE2	2.54	0.80
1:A:1558:HIS:CD2	1:A:1559:GLN:H	1.99	0.80
1:B:953:THR:C	1:B:959:TYR:CD2	2.54	0.80
1:B:956:PRO:HG2	1:B:959:TYR:CE1	2.15	0.80
1:C:322:LYS:HB3	1:C:323:LEU:C	2.00	0.80
1:D:998:ARG:CD	1:D:999:ASP:OD1	2.30	0.80
1:D:1016:ARG:C	1:D:1017:ARG:CZ	2.49	0.80
1:A:76:ARG:O	1:A:80:GLU:HG2	1.82	0.80
1:B:956:PRO:O	1:B:957:LYS:C	2.19	0.80
1:B:1851:UNK:HA	1:B:1854:UNK:CB	2.11	0.80
1:C:4172:UNK:O	1:C:4175:UNK:N	2.15	0.80
1:D:3265:UNK:O	1:D:3266:UNK:C	2.28	0.80
1:A:953:THR:C	1:A:959:TYR:CD2	2.54	0.80
1:A:1851:UNK:HA	1:A:1854:UNK:CB	2.11	0.80
1:B:76:ARG:HA	1:B:79:GLN:CD	2.02	0.80
1:C:76:ARG:HA	1:C:79:GLN:CD	2.02	0.80
1:C:996:TRP:HZ2	1:C:1021:LEU:HD13	1.05	0.80
1:C:1000:ARG:O	1:C:1000:ARG:CD	2.30	0.80
1:D:1000:ARG:O	1:D:1000:ARG:CD	2.30	0.80
1:D:1020:ARG:HH11	1:D:1024:TYR:CA	1.91	0.80
1:D:1851:UNK:HA	1:D:1854:UNK:CB	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:131:LEU:HB3	1:A:178:ARG:HH12	1.46	0.80
1:A:1444:GLU:HB2	1:A:1445:PRO:C	2.02	0.80
1:B:77:ALA:HA	1:B:80:GLU:OE2	1.81	0.80
1:B:1001:VAL:C	1:B:1005:TRP:CE2	2.54	0.80
1:B:1017:ARG:NH1	1:B:1017:ARG:HG3	1.93	0.80
1:C:368:ARG:NH1	1:C:371:VAL:HB	1.97	0.80
1:C:728:ARG:CB	1:C:1134:LEU:HD23	2.07	0.80
1:C:1000:ARG:HG2	1:C:1018:ASN:CG	2.01	0.80
1:D:1558:HIS:CD2	1:D:1559:GLN:H	1.99	0.80
1:D:3316:UNK:CA	1:D:3322:UNK:CB	2.59	0.80
1:A:998:ARG:O	1:A:998:ARG:CZ	2.30	0.80
1:A:2292:UNK:CB	1:A:2348:UNK:CB	2.59	0.80
1:B:1016:ARG:O	1:B:1017:ARG:CZ	2.30	0.80
1:C:956:PRO:O	1:C:957:LYS:C	2.19	0.80
1:C:1001:VAL:C	1:C:1005:TRP:CE2	2.54	0.80
1:C:1851:UNK:HA	1:C:1854:UNK:CB	2.11	0.80
1:C:3265:UNK:O	1:C:3266:UNK:C	2.28	0.80
1:D:368:ARG:NH1	1:D:371:VAL:HB	1.97	0.80
1:A:321:GLU:HB2	1:A:323:LEU:CD1	2.12	0.80
1:B:752:VAL:HG11	1:B:769:GLU:HG2	1.61	0.80
1:B:1021:LEU:O	1:B:1022:VAL:CG1	2.30	0.80
1:C:77:ALA:HA	1:C:80:GLU:OE2	1.81	0.80
1:C:990:GLU:O	1:C:993:HIS:CB	2.28	0.80
1:C:1016:ARG:C	1:C:1017:ARG:CZ	2.49	0.80
1:C:1453:VAL:O	1:C:1548:LEU:HA	1.81	0.80
1:D:76:ARG:HA	1:D:79:GLN:CD	2.01	0.80
1:D:1000:ARG:CZ	1:D:1016:ARG:CG	2.59	0.80
1:D:1000:ARG:HG2	1:D:1018:ASN:CG	2.01	0.80
1:D:2292:UNK:CB	1:D:2348:UNK:CB	2.59	0.80
1:B:368:ARG:NH1	1:B:371:VAL:HB	1.97	0.80
1:B:1018:ASN:O	1:B:1021:LEU:CD2	2.30	0.80
1:B:4172:UNK:O	1:B:4175:UNK:N	2.15	0.80
1:C:131:LEU:HB3	1:C:178:ARG:HH12	1.46	0.80
1:C:998:ARG:O	1:C:998:ARG:CZ	2.30	0.80
1:C:1437:VAL:HG21	1:C:1518:CYS:SG	2.22	0.80
1:C:1437:VAL:HG21	1:C:1518:CYS:CB	2.11	0.80
1:D:77:ALA:HA	1:D:80:GLU:OE2	1.81	0.80
1:D:576:UNK:HA	1:D:579:UNK:CB	2.11	0.80
1:D:956:PRO:HG3	1:D:959:TYR:CD1	1.94	0.80
1:D:956:PRO:O	1:D:957:LYS:C	2.19	0.80
1:D:4172:UNK:O	1:D:4175:UNK:N	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:SER:HA	1:A:269:TRP:CZ3	2.08	0.80
1:A:368:ARG:NH1	1:A:371:VAL:HB	1.97	0.80
1:B:1015:ALA:O	1:B:1016:ARG:CD	2.30	0.80
1:D:1015:ALA:O	1:D:1016:ARG:CG	2.30	0.80
1:D:1444:GLU:HB2	1:D:1445:PRO:C	2.02	0.80
1:A:1021:LEU:O	1:A:1022:VAL:CG2	2.30	0.79
1:A:3316:UNK:CA	1:A:3322:UNK:CB	2.59	0.79
1:A:4172:UNK:O	1:A:4175:UNK:N	2.15	0.79
1:B:76:ARG:O	1:B:80:GLU:HG2	1.82	0.79
1:B:1000:ARG:O	1:B:1000:ARG:CD	2.30	0.79
1:B:1476:MET:HE1	1:B:1516:ILE:CD1	2.12	0.79
1:C:993:HIS:CE1	1:C:1020:ARG:HA	2.12	0.79
1:C:2292:UNK:CB	1:C:2348:UNK:CB	2.59	0.79
1:C:3316:UNK:CA	1:C:3322:UNK:CB	2.59	0.79
1:D:222:LEU:HD23	1:D:390:LEU:HD22	1.64	0.79
1:D:657:THR:CB	1:D:662:TRP:CD2	2.61	0.79
1:D:1021:LEU:O	1:D:1022:VAL:CG2	2.30	0.79
1:D:1476:MET:CE	1:D:1516:ILE:CD1	2.60	0.79
1:A:1021:LEU:O	1:A:1022:VAL:CG1	2.30	0.79
1:A:1439:VAL:CG2	1:A:1516:ILE:HG22	2.13	0.79
1:A:3306:UNK:HA	1:A:3309:UNK:N	1.96	0.79
1:B:1000:ARG:HG2	1:B:1018:ASN:CG	2.01	0.79
1:C:1020:ARG:NE	1:C:1020:ARG:CA	2.45	0.79
1:C:1474:VAL:HB	1:C:1529:PHE:CE2	2.18	0.79
1:D:207:SER:HA	1:D:269:TRP:CZ3	2.08	0.79
1:D:323:LEU:HB2	1:D:324:ASP:C	2.03	0.79
1:D:998:ARG:HD3	1:D:999:ASP:H	1.47	0.79
1:D:1437:VAL:HG21	1:D:1518:CYS:CB	2.11	0.79
1:D:1452:TRP:HB3	1:D:1548:LEU:HB3	1.64	0.79
1:A:1007:TYR:HE1	1:A:1015:ALA:CA	1.95	0.79
1:B:321:GLU:HB2	1:B:323:LEU:CD1	2.13	0.79
1:C:76:ARG:O	1:C:80:GLU:HG2	1.82	0.79
1:C:1016:ARG:O	1:C:1017:ARG:CZ	2.30	0.79
1:D:321:GLU:HB2	1:D:323:LEU:CD1	2.12	0.79
1:D:1017:ARG:NH1	1:D:1017:ARG:CA	2.46	0.79
1:D:1474:VAL:HG22	1:D:1540:PHE:CE2	2.18	0.79
1:A:323:LEU:HB2	1:A:324:ASP:C	2.03	0.79
1:A:572:UNK:O	1:A:575:UNK:CB	2.31	0.79
1:A:998:ARG:CD	1:A:999:ASP:OD1	2.30	0.79
1:A:1474:VAL:HB	1:A:1529:PHE:CE2	2.18	0.79
1:B:256:ALA:HB3	1:B:481:GLU:OE2	1.83	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:998:ARG:CD	1:B:999:ASP:OD1	2.30	0.79
1:C:576:UNK:HA	1:C:579:UNK:CB	2.11	0.79
1:C:1474:VAL:HG22	1:C:1540:PHE:CE2	2.18	0.79
1:C:1477:GLY:O	1:C:1510:SER:O	2.01	0.79
1:D:1021:LEU:O	1:D:1022:VAL:CG1	2.30	0.79
1:A:222:LEU:HD23	1:A:390:LEU:HD22	1.64	0.79
1:A:1437:VAL:HG21	1:A:1518:CYS:SG	2.22	0.79
1:B:1444:GLU:HB2	1:B:1445:PRO:C	2.02	0.79
1:C:572:UNK:O	1:C:575:UNK:CB	2.31	0.79
1:C:1015:ALA:O	1:C:1016:ARG:CG	2.30	0.79
1:C:1021:LEU:O	1:C:1022:VAL:CG2	2.30	0.79
1:A:1020:ARG:HH11	1:A:1024:TYR:CA	1.91	0.79
1:B:323:LEU:HB2	1:B:324:ASP:C	2.03	0.79
1:C:1000:ARG:CZ	1:C:1016:ARG:CG	2.59	0.79
1:C:1018:ASN:O	1:C:1021:LEU:CD2	2.30	0.79
1:D:3306:UNK:HA	1:D:3309:UNK:N	1.96	0.79
1:A:1015:ALA:O	1:A:1016:ARG:CD	2.30	0.79
1:B:324:ASP:HB2	1:B:325:THR:C	2.03	0.79
1:B:1007:TYR:HE1	1:B:1015:ALA:CA	1.95	0.79
1:B:1015:ALA:O	1:B:1016:ARG:CG	2.30	0.79
1:C:321:GLU:HB2	1:C:323:LEU:CD1	2.12	0.79
1:C:998:ARG:CD	1:C:999:ASP:OD1	2.30	0.79
1:C:1000:ARG:HE	1:C:1016:ARG:CG	1.96	0.79
1:D:572:UNK:O	1:D:575:UNK:CB	2.31	0.79
1:D:1016:ARG:O	1:D:1017:ARG:CZ	2.30	0.79
1:D:1437:VAL:HG21	1:D:1518:CYS:SG	2.23	0.79
1:A:256:ALA:HB3	1:A:481:GLU:OE2	1.83	0.79
1:A:1016:ARG:O	1:A:1017:ARG:CZ	2.30	0.79
1:A:1432:THR:OG1	1:A:1523:ALA:CB	2.30	0.79
1:B:1453:VAL:O	1:B:1548:LEU:HA	1.81	0.79
1:B:1474:VAL:HG22	1:B:1540:PHE:CE2	2.17	0.79
1:C:1015:ALA:O	1:C:1016:ARG:CD	2.30	0.79
1:C:1018:ASN:HB2	1:C:1021:LEU:HD22	1.64	0.79
1:C:1444:GLU:HB2	1:C:1445:PRO:C	2.02	0.79
1:D:1439:VAL:CG2	1:D:1516:ILE:HG22	2.13	0.79
1:A:1474:VAL:HG22	1:A:1540:PHE:CE2	2.17	0.79
1:A:1476:MET:CE	1:A:1516:ILE:CD1	2.60	0.79
1:A:3317:UNK:N	1:A:3322:UNK:CB	2.46	0.79
1:B:1000:ARG:CZ	1:B:1016:ARG:CD	2.61	0.79
1:B:1432:THR:OG1	1:B:1523:ALA:CB	2.30	0.79
1:B:1437:VAL:HG21	1:B:1518:CYS:SG	2.22	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1476:MET:CE	1:B:1516:ILE:CD1	2.60	0.79
1:C:207:SER:HA	1:C:269:TRP:CZ3	2.08	0.79
1:C:256:ALA:HB3	1:C:481:GLU:OE2	1.83	0.79
1:C:953:THR:CG2	1:C:971:ASP:OD1	2.31	0.79
1:C:1017:ARG:NH1	1:C:1017:ARG:HG3	1.93	0.79
1:D:76:ARG:O	1:D:80:GLU:HG2	1.82	0.79
1:D:1007:TYR:HE1	1:D:1015:ALA:CA	1.95	0.79
1:D:1018:ASN:HB2	1:D:1021:LEU:HD22	1.64	0.79
1:D:1474:VAL:HB	1:D:1529:PHE:CE2	2.17	0.79
1:A:953:THR:CG2	1:A:971:ASP:OD1	2.31	0.79
1:A:1000:ARG:O	1:A:1000:ARG:CD	2.30	0.79
1:A:1015:ALA:O	1:A:1016:ARG:CG	2.30	0.79
1:A:1452:TRP:HB3	1:A:1548:LEU:HB3	1.64	0.79
1:B:998:ARG:CZ	1:B:998:ARG:O	2.30	0.79
1:B:1001:VAL:C	1:B:1005:TRP:NE1	2.37	0.79
1:D:324:ASP:HB2	1:D:325:THR:C	2.03	0.79
1:C:1021:LEU:O	1:C:1022:VAL:CG1	2.30	0.78
1:C:1452:TRP:HB3	1:C:1548:LEU:HB3	1.64	0.78
1:C:1476:MET:CE	1:C:1516:ILE:CD1	2.60	0.78
1:D:1000:ARG:CZ	1:D:1016:ARG:CD	2.61	0.78
1:A:1018:ASN:O	1:A:1021:LEU:CD2	2.30	0.78
1:B:362:PRO:HD3	1:B:374:LYS:HG2	1.65	0.78
1:B:368:ARG:HG2	1:B:368:ARG:NH1	1.94	0.78
1:B:1439:VAL:CG2	1:B:1516:ILE:HG22	2.13	0.78
1:B:1452:TRP:HB3	1:B:1548:LEU:HB3	1.64	0.78
1:B:1474:VAL:HB	1:B:1529:PHE:CE2	2.18	0.78
1:B:2292:UNK:CA	1:B:2348:UNK:CB	2.61	0.78
1:C:324:ASP:HB2	1:C:325:THR:C	2.03	0.78
1:C:445:LEU:HD23	1:C:521:LEU:HB2	1.65	0.78
1:D:998:ARG:CZ	1:D:998:ARG:O	2.30	0.78
1:D:1015:ALA:O	1:D:1016:ARG:CD	2.30	0.78
1:D:2292:UNK:CA	1:D:2348:UNK:CB	2.61	0.78
1:A:82:LEU:HD11	1:A:144:GLU:OE2	1.84	0.78
1:A:324:ASP:HB2	1:A:325:THR:C	2.03	0.78
1:A:657:THR:CG2	1:A:662:TRP:CZ2	2.66	0.78
1:B:321:GLU:HB2	1:B:323:LEU:HD13	1.65	0.78
1:C:1000:ARG:CZ	1:C:1016:ARG:CD	2.61	0.78
1:C:1001:VAL:C	1:C:1005:TRP:NE1	2.37	0.78
1:D:82:LEU:HD11	1:D:144:GLU:OE2	1.84	0.78
1:D:256:ALA:HB3	1:D:481:GLU:OE2	1.83	0.78
1:D:4710:UNK:O	1:D:4719:UNK:CB	2.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:362:PRO:HD3	1:A:374:LYS:HG2	1.65	0.78
1:A:1001:VAL:C	1:A:1005:TRP:NE1	2.37	0.78
1:A:1437:VAL:CG2	1:A:1518:CYS:HB2	2.14	0.78
1:A:1477:GLY:O	1:A:1510:SER:O	2.00	0.78
1:B:131:LEU:HB3	1:B:178:ARG:HH12	1.46	0.78
1:B:445:LEU:HD23	1:B:521:LEU:HB2	1.65	0.78
1:B:1000:ARG:HE	1:B:1016:ARG:CG	1.96	0.78
1:B:3317:UNK:N	1:B:3322:UNK:CB	2.46	0.78
1:C:323:LEU:HB2	1:C:324:ASP:C	2.03	0.78
1:C:1017:ARG:NH1	1:C:1017:ARG:CA	2.46	0.78
1:C:3317:UNK:N	1:C:3322:UNK:CB	2.46	0.78
1:A:998:ARG:HD3	1:A:999:ASP:H	1.48	0.78
1:A:2292:UNK:CA	1:A:2348:UNK:CB	2.61	0.78
1:B:572:UNK:O	1:B:575:UNK:CB	2.31	0.78
1:A:445:LEU:HD23	1:A:521:LEU:HB2	1.65	0.78
1:B:1017:ARG:NH1	1:B:1017:ARG:CA	2.46	0.78
1:B:1018:ASN:HB2	1:B:1021:LEU:HD22	1.64	0.78
1:B:1021:LEU:O	1:B:1022:VAL:CG2	2.30	0.78
1:C:1007:TYR:HE1	1:C:1015:ALA:CA	1.95	0.78
1:C:1439:VAL:CG2	1:C:1516:ILE:HG22	2.13	0.78
1:D:1432:THR:OG1	1:D:1523:ALA:CB	2.30	0.78
1:A:1017:ARG:NH1	1:A:1017:ARG:CA	2.46	0.78
1:B:424:LYS:NZ	1:B:505:GLU:HB2	1.99	0.78
1:B:657:THR:CG2	1:B:662:TRP:CZ2	2.66	0.78
1:B:1000:ARG:CZ	1:B:1016:ARG:CG	2.59	0.78
1:D:953:THR:CG2	1:D:971:ASP:OD1	2.31	0.78
1:D:1001:VAL:C	1:D:1005:TRP:NE1	2.37	0.78
1:A:321:GLU:HB2	1:A:323:LEU:HD13	1.65	0.78
1:A:1000:ARG:CZ	1:A:1016:ARG:CD	2.61	0.78
1:C:207:SER:CB	1:C:269:TRP:HZ3	1.97	0.78
1:D:77:ALA:HA	1:D:80:GLU:CG	2.14	0.78
1:D:1000:ARG:HE	1:D:1016:ARG:CG	1.96	0.78
1:D:1018:ASN:O	1:D:1021:LEU:CD2	2.30	0.78
1:B:953:THR:CG2	1:B:971:ASP:OD1	2.31	0.78
1:B:1477:GLY:O	1:B:1510:SER:O	2.00	0.78
1:D:1434:TYR:CD1	1:D:1570:LYS:HB2	2.19	0.78
1:C:77:ALA:HA	1:C:80:GLU:CG	2.14	0.78
1:D:445:LEU:HD23	1:D:521:LEU:HB2	1.65	0.78
1:A:752:VAL:HB	1:A:753:PRO:C	2.04	0.77
1:A:4710:UNK:O	1:A:4719:UNK:CB	2.31	0.77
1:B:1437:VAL:CG2	1:B:1518:CYS:HB2	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:222:LEU:HD23	1:C:390:LEU:HD22	1.64	0.77
1:C:2292:UNK:CA	1:C:2348:UNK:CB	2.61	0.77
1:C:4710:UNK:O	1:C:4719:UNK:CB	2.32	0.77
1:D:207:SER:CB	1:D:269:TRP:HZ3	1.97	0.77
1:D:752:VAL:HB	1:D:753:PRO:C	2.04	0.77
1:D:1437:VAL:CG2	1:D:1518:CYS:HB2	2.14	0.77
1:D:1477:GLY:O	1:D:1510:SER:O	2.00	0.77
1:A:77:ALA:HA	1:A:80:GLU:CG	2.14	0.77
1:A:1000:ARG:HE	1:A:1016:ARG:CG	1.96	0.77
1:A:1434:TYR:CD1	1:A:1570:LYS:HB2	2.18	0.77
1:B:222:LEU:HD23	1:B:390:LEU:HD22	1.64	0.77
1:B:954:LYS:CB	1:B:971:ASP:CG	2.53	0.77
1:B:1001:VAL:CG1	1:B:1005:TRP:HE1	1.87	0.77
1:C:82:LEU:HD11	1:C:144:GLU:OE2	1.84	0.77
1:C:657:THR:CG2	1:C:662:TRP:CZ2	2.66	0.77
1:C:752:VAL:HB	1:C:753:PRO:C	2.04	0.77
1:C:1434:TYR:CD1	1:C:1570:LYS:HB2	2.18	0.77
1:D:424:LYS:NZ	1:D:505:GLU:HB2	1.99	0.77
1:B:855:PRO:HA	1:B:994:ASN:ND2	1.85	0.77
1:B:4710:UNK:O	1:B:4719:UNK:CB	2.32	0.77
1:C:424:LYS:NZ	1:C:505:GLU:HB2	1.99	0.77
1:A:1020:ARG:NH1	1:A:1024:TYR:CA	2.31	0.77
1:C:1018:ASN:CB	1:C:1021:LEU:CD2	2.30	0.77
1:C:1437:VAL:CG2	1:C:1518:CYS:HB2	2.14	0.77
1:D:657:THR:CG2	1:D:662:TRP:CZ2	2.67	0.77
1:D:3317:UNK:N	1:D:3322:UNK:CB	2.46	0.77
1:B:75:VAL:N	1:B:78:LEU:HG	2.00	0.77
1:B:752:VAL:HB	1:B:753:PRO:C	2.04	0.77
1:B:1434:TYR:CD1	1:B:1570:LYS:HB2	2.18	0.77
1:B:1471:ALA:O	1:B:1472:VAL:HG23	1.85	0.77
1:A:424:LYS:NZ	1:A:505:GLU:HB2	1.99	0.77
1:B:77:ALA:HA	1:B:80:GLU:CG	2.14	0.77
1:B:82:LEU:HD11	1:B:144:GLU:OE2	1.84	0.77
1:C:321:GLU:HB2	1:C:323:LEU:HD13	1.65	0.77
1:C:855:PRO:HA	1:C:994:ASN:ND2	1.85	0.77
1:C:954:LYS:CB	1:C:971:ASP:CG	2.53	0.77
1:D:1471:ALA:O	1:D:1472:VAL:HG23	1.84	0.77
1:B:998:ARG:HD3	1:B:999:ASP:H	1.47	0.77
1:D:69:LEU:HD22	1:D:107:ILE:HD11	1.67	0.77
1:D:1022:VAL:O	1:D:1022:VAL:CG2	2.33	0.77
1:A:329:ARG:HG3	1:A:329:ARG:NH1	1.97	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1021:LEU:HD13	1:B:1021:LEU:N	1.98	0.77
1:B:1462:MET:HE1	1:B:1559:GLN:HG2	1.66	0.77
1:B:4644:UNK:O	1:B:4648:UNK:N	2.18	0.77
1:C:999:ASP:O	1:C:1003:GLN:CG	2.33	0.77
1:C:3306:UNK:HA	1:C:3309:UNK:CB	2.15	0.77
1:D:321:GLU:HB2	1:D:323:LEU:HD13	1.65	0.77
1:D:954:LYS:CB	1:D:971:ASP:CG	2.53	0.77
1:D:999:ASP:O	1:D:1003:GLN:CG	2.33	0.77
1:D:1021:LEU:HD13	1:D:1021:LEU:N	1.98	0.77
1:B:207:SER:CB	1:B:269:TRP:HZ3	1.97	0.77
1:B:424:LYS:HZ1	1:B:505:GLU:HB2	1.48	0.77
1:C:4644:UNK:O	1:C:4648:UNK:N	2.18	0.77
1:A:954:LYS:CB	1:A:971:ASP:CG	2.53	0.76
1:A:4644:UNK:O	1:A:4648:UNK:N	2.18	0.76
1:A:4847:UNK:O	1:A:4851:UNK:N	2.19	0.76
1:D:4644:UNK:O	1:D:4648:UNK:N	2.18	0.76
1:C:1022:VAL:O	1:C:1022:VAL:CG2	2.33	0.76
1:D:362:PRO:HD3	1:D:374:LYS:HG2	1.65	0.76
1:D:1001:VAL:CG1	1:D:1005:TRP:HE1	1.87	0.76
1:A:207:SER:CB	1:A:269:TRP:HZ3	1.97	0.76
1:A:1021:LEU:HD13	1:A:1021:LEU:N	1.98	0.76
1:B:752:VAL:HB	1:B:754:SER:N	2.00	0.76
1:C:752:VAL:HB	1:C:754:SER:N	2.00	0.76
1:D:424:LYS:HZ1	1:D:505:GLU:HB2	1.50	0.76
1:B:999:ASP:O	1:B:1003:GLN:CG	2.33	0.76
1:B:4847:UNK:O	1:B:4851:UNK:N	2.19	0.76
1:D:728:ARG:CD	1:D:1134:LEU:HB2	2.16	0.76
1:A:752:VAL:HG11	1:A:769:GLU:HG2	1.61	0.76
1:C:69:LEU:HD22	1:C:107:ILE:HD11	1.67	0.76
1:C:362:PRO:HD3	1:C:374:LYS:HG2	1.65	0.76
1:A:1001:VAL:CG1	1:A:1005:TRP:HE1	1.87	0.76
1:A:1017:ARG:NH1	1:A:1017:ARG:HG3	1.93	0.76
1:A:1471:ALA:O	1:A:1472:VAL:HG23	1.84	0.76
1:C:12:GLN:OE1	1:C:165:VAL:N	2.19	0.76
1:C:727:ALA:O	1:C:1134:LEU:CD2	2.33	0.76
1:C:728:ARG:CD	1:C:1134:LEU:HB2	2.16	0.76
1:C:998:ARG:HD3	1:C:999:ASP:H	1.48	0.76
1:C:1471:ALA:O	1:C:1472:VAL:HG23	1.85	0.76
1:A:1022:VAL:O	1:A:1022:VAL:CG2	2.33	0.76
1:A:1476:MET:HE1	1:A:1516:ILE:CD1	2.15	0.76
1:A:999:ASP:O	1:A:1003:GLN:CG	2.33	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1018:ASN:CB	1:A:1021:LEU:CD2	2.30	0.76
1:B:12:GLN:OE1	1:B:165:VAL:N	2.19	0.76
1:B:3306:UNK:HA	1:B:3309:UNK:CB	2.15	0.76
1:D:4847:UNK:O	1:D:4851:UNK:N	2.19	0.76
1:A:368:ARG:HG2	1:A:368:ARG:NH1	1.94	0.76
1:A:727:ALA:O	1:A:1134:LEU:CD2	2.33	0.76
1:D:3306:UNK:HA	1:D:3309:UNK:CB	2.15	0.76
1:B:727:ALA:O	1:B:1134:LEU:CD2	2.33	0.75
1:B:1022:VAL:O	1:B:1022:VAL:CG2	2.33	0.75
1:C:79:GLN:HG2	1:C:80:GLU:N	2.01	0.75
1:D:12:GLN:OE1	1:D:165:VAL:N	2.19	0.75
1:D:1020:ARG:NE	1:D:1020:ARG:CA	2.45	0.75
1:B:69:LEU:HD22	1:B:107:ILE:HD11	1.67	0.75
1:C:1494:MET:HB3	1:C:1540:PHE:CE1	2.22	0.75
1:A:322:LYS:N	1:A:323:LEU:HA	2.02	0.75
1:B:322:LYS:HE2	1:B:324:ASP:OD1	1.87	0.75
1:C:4847:UNK:O	1:C:4851:UNK:N	2.19	0.75
1:A:69:LEU:HD22	1:A:107:ILE:HD11	1.66	0.75
1:D:322:LYS:N	1:D:323:LEU:HA	2.02	0.75
1:D:727:ALA:O	1:D:1134:LEU:CD2	2.33	0.75
1:A:12:GLN:OE1	1:A:165:VAL:N	2.19	0.75
1:A:75:VAL:N	1:A:78:LEU:HG	2.00	0.75
1:B:323:LEU:HD23	1:B:324:ASP:O	1.87	0.75
1:C:206:CYS:C	1:C:269:TRP:CZ3	2.60	0.75
1:C:322:LYS:HE2	1:C:324:ASP:OD1	1.87	0.75
1:D:752:VAL:HB	1:D:754:SER:N	2.00	0.75
1:D:1462:MET:HE1	1:D:1559:GLN:HG2	1.69	0.75
1:B:75:VAL:HG13	1:B:76:ARG:N	2.02	0.75
1:D:1422:ASP:HB3	1:D:1549:PHE:CE1	2.21	0.75
1:A:79:GLN:HG2	1:A:80:GLU:N	2.01	0.75
1:A:206:CYS:C	1:A:269:TRP:CZ3	2.60	0.75
1:A:752:VAL:HB	1:A:754:SER:N	2.00	0.75
1:C:82:LEU:O	1:C:82:LEU:HD23	1.87	0.75
1:D:1018:ASN:CG	1:D:1021:LEU:HD21	2.07	0.75
1:A:728:ARG:CD	1:A:1134:LEU:HB2	2.16	0.75
1:A:1494:MET:HB3	1:A:1540:PHE:CE1	2.22	0.75
1:B:1018:ASN:HB2	1:B:1021:LEU:HD21	0.75	0.75
1:C:75:VAL:HG13	1:C:76:ARG:N	2.02	0.75
1:A:855:PRO:HA	1:A:994:ASN:ND2	1.85	0.74
1:B:728:ARG:CD	1:B:1134:LEU:HB2	2.16	0.74
1:B:1494:MET:HB3	1:B:1540:PHE:CE1	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1018:ASN:CG	1:C:1021:LEU:HD21	2.07	0.74
1:C:1462:MET:HE1	1:C:1559:GLN:HG2	1.69	0.74
1:D:206:CYS:C	1:D:269:TRP:CZ3	2.60	0.74
1:D:1494:MET:HB3	1:D:1540:PHE:CE1	2.22	0.74
1:A:323:LEU:HD23	1:A:324:ASP:O	1.87	0.74
1:A:996:TRP:HZ2	1:A:1021:LEU:CD1	1.90	0.74
1:B:1422:ASP:HB3	1:B:1549:PHE:CE1	2.21	0.74
1:C:1018:ASN:HB2	1:C:1021:LEU:HD21	0.75	0.74
1:A:1018:ASN:CG	1:A:1021:LEU:HD21	2.07	0.74
1:A:1422:ASP:HB3	1:A:1549:PHE:CE1	2.22	0.74
1:A:3306:UNK:HA	1:A:3309:UNK:CB	2.15	0.74
1:B:79:GLN:HG2	1:B:80:GLU:N	2.01	0.74
1:B:1018:ASN:CG	1:B:1021:LEU:HD21	2.07	0.74
1:D:82:LEU:O	1:D:82:LEU:HD23	1.87	0.74
1:D:1444:GLU:HB2	1:D:1445:PRO:O	1.88	0.74
1:A:1020:ARG:NE	1:A:1020:ARG:CA	2.45	0.74
1:B:1555:LEU:HB3	1:B:1556:PRO:HD3	1.70	0.74
1:A:752:VAL:N	1:A:753:PRO:HA	2.03	0.74
1:A:956:PRO:HG3	1:A:959:TYR:CD1	1.94	0.74
1:A:1018:ASN:HB2	1:A:1021:LEU:HD21	0.75	0.74
1:A:1432:THR:HG1	1:A:1523:ALA:HB2	1.50	0.74
1:B:4055:UNK:H	1:B:4058:UNK:CB	2.01	0.74
1:C:1021:LEU:HD13	1:C:1021:LEU:N	1.98	0.74
1:C:4573:UNK:CB	1:C:4809:UNK:CB	2.65	0.74
1:A:322:LYS:HE2	1:A:324:ASP:OD1	1.87	0.74
1:B:322:LYS:N	1:B:323:LEU:HA	2.02	0.74
1:C:323:LEU:HD23	1:C:324:ASP:O	1.87	0.74
1:D:322:LYS:HE2	1:D:324:ASP:OD1	1.87	0.74
1:D:487:VAL:HG13	1:D:522:LEU:HD12	1.69	0.74
1:D:1476:MET:CE	1:D:1516:ILE:HD11	2.17	0.74
1:A:1476:MET:CE	1:A:1516:ILE:HD11	2.17	0.74
1:C:1422:ASP:HB3	1:C:1549:PHE:CE1	2.21	0.74
1:C:1432:THR:OG1	1:C:1523:ALA:CB	2.30	0.74
1:D:75:VAL:HG13	1:D:76:ARG:N	2.02	0.74
1:D:323:LEU:HD23	1:D:324:ASP:O	1.87	0.74
1:D:1555:LEU:HB3	1:D:1556:PRO:HD3	1.70	0.74
1:A:75:VAL:HG13	1:A:76:ARG:N	2.02	0.74
1:C:487:VAL:HG13	1:C:522:LEU:HD12	1.69	0.74
1:B:206:CYS:C	1:B:269:TRP:CZ3	2.60	0.74
1:B:1020:ARG:NE	1:B:1020:ARG:CA	2.45	0.74
1:D:75:VAL:N	1:D:78:LEU:HG	2.00	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1018:ASN:HB2	1:D:1021:LEU:HD21	0.75	0.74
1:A:82:LEU:O	1:A:82:LEU:HD23	1.87	0.74
1:A:1555:LEU:HB3	1:A:1556:PRO:HD3	1.70	0.74
1:A:4573:UNK:CB	1:A:4809:UNK:CB	2.65	0.74
1:A:4703:UNK:HA	1:A:4706:UNK:CB	2.18	0.74
1:C:317:ARG:CZ	1:C:322:LYS:C	2.56	0.74
1:B:1444:GLU:HB2	1:B:1445:PRO:O	1.88	0.73
1:C:1555:LEU:HB3	1:C:1556:PRO:HD3	1.70	0.73
1:C:4055:UNK:H	1:C:4058:UNK:CB	2.01	0.73
1:D:79:GLN:HG2	1:D:80:GLU:N	2.01	0.73
1:B:82:LEU:O	1:B:82:LEU:HD23	1.87	0.73
1:B:752:VAL:N	1:B:753:PRO:HA	2.03	0.73
1:B:1453:VAL:O	1:B:1549:PHE:N	2.21	0.73
1:C:323:LEU:N	1:C:324:ASP:HA	2.03	0.73
1:C:1453:VAL:O	1:C:1549:PHE:N	2.21	0.73
1:D:4573:UNK:CB	1:D:4809:UNK:CB	2.65	0.73
1:A:1437:VAL:C	1:A:1516:ILE:O	2.27	0.73
1:A:4055:UNK:H	1:A:4058:UNK:CB	2.01	0.73
1:B:1007:TYR:HE1	1:B:1015:ALA:HA	1.53	0.73
1:D:752:VAL:N	1:D:753:PRO:HA	2.03	0.73
1:D:4055:UNK:H	1:D:4058:UNK:CB	2.01	0.73
1:D:4703:UNK:HA	1:D:4706:UNK:CB	2.18	0.73
1:B:1437:VAL:C	1:B:1516:ILE:O	2.27	0.73
1:D:752:VAL:CG1	1:D:769:GLU:CG	2.49	0.73
1:A:323:LEU:N	1:A:324:ASP:HA	2.03	0.73
1:B:4573:UNK:CB	1:B:4809:UNK:CB	2.66	0.73
1:C:752:VAL:N	1:C:753:PRO:HA	2.03	0.73
1:C:4797:UNK:O	1:C:4801:UNK:CB	2.37	0.73
1:D:205:ILE:O	1:D:269:TRP:CA	2.34	0.73
1:A:1007:TYR:HE1	1:A:1015:ALA:HA	1.54	0.73
1:A:1444:GLU:OE1	1:A:1478:ASP:CA	2.37	0.73
1:B:317:ARG:CZ	1:B:322:LYS:C	2.56	0.73
1:B:4797:UNK:O	1:B:4801:UNK:CB	2.37	0.73
1:B:323:LEU:N	1:B:324:ASP:HA	2.03	0.73
1:D:323:LEU:HD22	1:D:323:LEU:N	2.03	0.73
1:D:1437:VAL:C	1:D:1516:ILE:O	2.27	0.73
1:A:4797:UNK:O	1:A:4801:UNK:CB	2.37	0.73
1:C:222:LEU:HA	1:C:390:LEU:HD23	1.71	0.73
1:C:1437:VAL:O	1:C:1516:ILE:C	2.27	0.73
1:C:1444:GLU:HB2	1:C:1445:PRO:O	1.88	0.73
1:D:1018:ASN:CB	1:D:1021:LEU:CD2	2.30	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1453:VAL:O	1:D:1549:PHE:N	2.21	0.73
1:A:77:ALA:HA	1:A:80:GLU:CD	2.09	0.73
1:A:487:VAL:HG13	1:A:522:LEU:HD12	1.69	0.73
1:A:1444:GLU:HB2	1:A:1445:PRO:O	1.88	0.73
1:B:77:ALA:HA	1:B:80:GLU:CD	2.10	0.73
1:C:1466:LEU:H	1:C:1553:PHE:CB	2.02	0.73
1:D:323:LEU:N	1:D:324:ASP:HA	2.03	0.73
1:B:323:LEU:HD22	1:B:323:LEU:N	2.03	0.73
1:B:1444:GLU:OE1	1:B:1478:ASP:CA	2.37	0.73
1:B:4703:UNK:HA	1:B:4706:UNK:CB	2.18	0.73
1:C:77:ALA:HA	1:C:80:GLU:CD	2.10	0.73
1:D:317:ARG:CZ	1:D:322:LYS:C	2.56	0.73
1:D:1432:THR:HG1	1:D:1523:ALA:HB2	1.51	0.73
1:D:1437:VAL:O	1:D:1516:ILE:C	2.27	0.73
1:D:1444:GLU:OE1	1:D:1478:ASP:CA	2.37	0.73
1:A:1018:ASN:HB2	1:A:1021:LEU:HD22	1.64	0.72
1:B:1466:LEU:H	1:B:1553:PHE:CB	2.02	0.72
1:C:1022:VAL:O	1:C:1023:PRO:C	2.27	0.72
1:A:21:VAL:CG1	1:A:205:ILE:HD11	2.04	0.72
1:A:222:LEU:HA	1:A:390:LEU:HD23	1.71	0.72
1:A:323:LEU:HD22	1:A:323:LEU:N	2.03	0.72
1:A:1462:MET:HE1	1:A:1559:GLN:HG2	1.70	0.72
1:C:205:ILE:O	1:C:269:TRP:CA	2.34	0.72
1:A:1017:ARG:HH11	1:A:1017:ARG:CA	2.03	0.72
1:B:205:ILE:O	1:B:269:TRP:CA	2.34	0.72
1:C:996:TRP:HZ2	1:C:1021:LEU:CD1	1.90	0.72
1:D:956:PRO:HG2	1:D:959:TYR:CE1	2.15	0.72
1:A:1022:VAL:O	1:A:1023:PRO:C	2.27	0.72
1:B:222:LEU:HA	1:B:390:LEU:HD23	1.71	0.72
1:B:487:VAL:HG13	1:B:522:LEU:HD12	1.69	0.72
1:C:207:SER:CB	1:C:269:TRP:CZ3	2.73	0.72
1:C:322:LYS:N	1:C:323:LEU:HA	2.02	0.72
1:D:996:TRP:CZ2	1:D:1020:ARG:N	2.49	0.72
1:A:317:ARG:CZ	1:A:322:LYS:C	2.56	0.72
1:C:323:LEU:HD22	1:C:323:LEU:N	2.03	0.72
1:C:1437:VAL:C	1:C:1516:ILE:O	2.27	0.72
1:C:4703:UNK:HA	1:C:4706:UNK:CB	2.18	0.72
1:D:4797:UNK:O	1:D:4801:UNK:CB	2.37	0.72
1:B:1471:ALA:O	1:B:1472:VAL:CG2	2.38	0.72
1:C:1471:ALA:O	1:C:1472:VAL:CG2	2.38	0.72
1:D:222:LEU:HA	1:D:390:LEU:HD23	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1017:ARG:HH11	1:D:1017:ARG:CA	2.02	0.72
1:A:3894:UNK:O	1:A:3898:UNK:N	2.23	0.72
1:B:21:VAL:CG1	1:B:205:ILE:HD11	2.04	0.72
1:B:996:TRP:CZ2	1:B:1020:ARG:N	2.49	0.72
1:B:1017:ARG:HH11	1:B:1017:ARG:CA	2.02	0.72
1:C:1007:TYR:HE1	1:C:1015:ALA:HA	1.53	0.72
1:D:752:VAL:CG1	1:D:769:GLU:OE1	2.38	0.72
1:A:2327:UNK:H	1:A:2330:UNK:CB	2.03	0.72
1:B:3894:UNK:O	1:B:3898:UNK:N	2.23	0.72
1:C:1444:GLU:OE1	1:C:1478:ASP:CA	2.37	0.72
1:D:1471:ALA:O	1:D:1472:VAL:CG2	2.38	0.72
1:D:1476:MET:HE1	1:D:1516:ILE:CD1	2.19	0.72
1:A:752:VAL:CG1	1:A:769:GLU:OE1	2.38	0.71
1:D:1022:VAL:O	1:D:1023:PRO:C	2.27	0.71
1:D:1466:LEU:H	1:D:1553:PHE:CB	2.02	0.71
1:A:1435:TYR:HE2	1:A:1520:VAL:HB	1.55	0.71
1:A:1471:ALA:O	1:A:1472:VAL:CG2	2.38	0.71
1:B:1439:VAL:CB	1:B:1514:LEU:O	2.16	0.71
1:D:2327:UNK:H	1:D:2330:UNK:CB	2.03	0.71
1:A:1437:VAL:O	1:A:1516:ILE:C	2.27	0.71
1:A:1466:LEU:H	1:A:1553:PHE:CB	2.02	0.71
1:C:1435:TYR:HE2	1:C:1520:VAL:HB	1.55	0.71
1:D:855:PRO:HA	1:D:994:ASN:ND2	1.85	0.71
1:D:991:ASN:O	1:D:995:VAL:HG23	1.90	0.71
1:B:1437:VAL:O	1:B:1516:ILE:C	2.27	0.71
1:B:1452:TRP:CH2	1:B:1527:MET:CG	2.73	0.71
1:C:3894:UNK:O	1:C:3898:UNK:N	2.23	0.71
1:B:1476:MET:CE	1:B:1516:ILE:HD11	2.17	0.71
1:C:1017:ARG:HH11	1:C:1017:ARG:CA	2.03	0.71
1:D:77:ALA:HA	1:D:80:GLU:CD	2.10	0.71
1:D:1007:TYR:HE1	1:D:1015:ALA:HA	1.54	0.71
1:B:1435:TYR:HE2	1:B:1520:VAL:HB	1.55	0.71
1:B:2327:UNK:H	1:B:2330:UNK:CB	2.03	0.71
1:B:4710:UNK:C	1:B:4719:UNK:CB	2.66	0.71
1:C:1429:ASN:HB2	1:C:1547:LYS:HB2	1.73	0.71
1:B:1022:VAL:O	1:B:1023:PRO:C	2.27	0.71
1:C:991:ASN:O	1:C:995:VAL:HG23	1.90	0.71
1:D:207:SER:CB	1:D:269:TRP:CZ3	2.73	0.71
1:D:1435:TYR:HE2	1:D:1520:VAL:HB	1.55	0.71
1:A:1453:VAL:O	1:A:1549:PHE:N	2.21	0.71
1:B:1016:ARG:CB	1:B:1016:ARG:HH11	2.02	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:368:ARG:HG2	1:C:368:ARG:NH1	1.94	0.71
1:C:1452:TRP:CH2	1:C:1527:MET:CG	2.73	0.71
1:C:1462:MET:CE	1:C:1559:GLN:HG2	2.21	0.71
1:B:1001:VAL:O	1:B:1005:TRP:CG	2.44	0.71
1:C:1007:TYR:CE1	1:C:1015:ALA:HB1	2.26	0.71
1:C:2327:UNK:H	1:C:2330:UNK:CB	2.03	0.71
1:D:4561:UNK:O	1:D:4564:UNK:N	2.24	0.71
1:A:1462:MET:CE	1:A:1559:GLN:HG2	2.21	0.70
1:B:1007:TYR:CE1	1:B:1015:ALA:HB1	2.26	0.70
1:C:1018:ASN:C	1:C:1021:LEU:HD22	2.12	0.70
1:A:1429:ASN:HB2	1:A:1547:LYS:HB2	1.73	0.70
1:B:752:VAL:CG1	1:B:769:GLU:OE1	2.38	0.70
1:B:991:ASN:O	1:B:995:VAL:HG23	1.90	0.70
1:C:752:VAL:CG1	1:C:769:GLU:OE1	2.38	0.70
1:D:1007:TYR:CE1	1:D:1015:ALA:HB1	2.26	0.70
1:D:1018:ASN:C	1:D:1021:LEU:HD22	2.12	0.70
1:A:80:GLU:CD	1:B:3932:UNK:CB	2.59	0.70
1:A:998:ARG:HD2	1:A:999:ASP:OD1	1.92	0.70
1:A:1018:ASN:C	1:A:1021:LEU:HD22	2.12	0.70
1:B:4561:UNK:O	1:B:4564:UNK:N	2.24	0.70
1:C:1439:VAL:CB	1:C:1514:LEU:O	2.16	0.70
1:D:998:ARG:HD2	1:D:999:ASP:OD1	1.91	0.70
1:A:1001:VAL:O	1:A:1005:TRP:CG	2.44	0.70
1:B:1429:ASN:HB2	1:B:1547:LYS:HB2	1.73	0.70
1:C:21:VAL:CG1	1:C:205:ILE:HD11	2.04	0.70
1:C:75:VAL:N	1:C:78:LEU:HG	2.00	0.70
1:C:1003:GLN:C	1:C:1007:TYR:CE2	2.65	0.70
1:D:1462:MET:CE	1:D:1559:GLN:HG2	2.21	0.70
1:A:991:ASN:O	1:A:995:VAL:HG23	1.90	0.70
1:C:424:LYS:HZ1	1:C:506:TYR:H	1.40	0.70
1:D:323:LEU:HB2	1:D:325:THR:N	2.07	0.70
1:D:1439:VAL:CB	1:D:1514:LEU:O	2.16	0.70
1:D:3894:UNK:O	1:D:3898:UNK:N	2.23	0.70
1:A:999:ASP:O	1:A:1003:GLN:CD	2.30	0.70
1:A:1007:TYR:CE1	1:A:1015:ALA:HB1	2.26	0.70
1:B:1462:MET:CE	1:B:1559:GLN:HG2	2.21	0.70
1:C:999:ASP:O	1:C:1003:GLN:CD	2.30	0.70
1:A:1016:ARG:CB	1:A:1016:ARG:HH11	2.02	0.70
1:B:1004:GLY:HA3	1:B:1015:ALA:HB2	1.71	0.70
1:C:323:LEU:H	1:C:323:LEU:CD2	2.04	0.70
1:A:323:LEU:H	1:A:323:LEU:CD2	2.04	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3134:UNK:O	1:C:3138:UNK:N	2.25	0.70
1:D:1429:ASN:HB2	1:D:1547:LYS:HB2	1.73	0.70
1:B:2073:UNK:CB	1:B:2094:UNK:CA	2.69	0.70
1:C:126:SER:HB3	1:C:130:LYS:HD2	1.74	0.70
1:C:323:LEU:HB2	1:C:325:THR:N	2.07	0.70
1:C:1016:ARG:CB	1:C:1016:ARG:HH11	2.03	0.70
1:A:2073:UNK:CB	1:A:2094:UNK:CA	2.69	0.70
1:B:1494:MET:HA	1:B:1540:PHE:CZ	2.27	0.70
1:D:1001:VAL:O	1:D:1005:TRP:CG	2.44	0.70
1:D:1003:GLN:C	1:D:1007:TYR:CE2	2.65	0.70
1:A:323:LEU:HB2	1:A:325:THR:N	2.07	0.69
1:B:323:LEU:H	1:B:323:LEU:CD2	2.04	0.69
1:B:728:ARG:HG3	1:B:1119:GLU:OE2	1.92	0.69
1:C:1001:VAL:O	1:C:1005:TRP:CG	2.44	0.69
1:C:4561:UNK:O	1:C:4564:UNK:N	2.24	0.69
1:D:999:ASP:O	1:D:1003:GLN:CD	2.30	0.69
1:A:728:ARG:HG3	1:A:1119:GLU:OE2	1.92	0.69
1:A:1003:GLN:C	1:A:1007:TYR:CE2	2.65	0.69
1:A:1466:LEU:H	1:A:1553:PHE:HB3	1.57	0.69
1:B:323:LEU:HB2	1:B:325:THR:N	2.07	0.69
1:B:999:ASP:O	1:B:1003:GLN:CD	2.30	0.69
1:C:1434:TYR:CD1	1:C:1570:LYS:CG	2.76	0.69
1:C:2073:UNK:CB	1:C:2094:UNK:CA	2.69	0.69
1:A:1434:TYR:CD1	1:A:1570:LYS:CG	2.75	0.69
1:A:3932:UNK:HA	1:D:80:GLU:OE1	1.92	0.69
1:B:1018:ASN:C	1:B:1021:LEU:HD22	2.12	0.69
1:C:1462:MET:C	1:C:1555:LEU:HD22	2.13	0.69
1:D:332:GLU:OE1	1:D:332:GLU:HA	1.92	0.69
1:D:1016:ARG:CB	1:D:1016:ARG:HH11	2.02	0.69
1:A:207:SER:CB	1:A:269:TRP:CZ3	2.73	0.69
1:B:1003:GLN:C	1:B:1007:TYR:CE2	2.65	0.69
1:C:1439:VAL:CA	1:C:1515:VAL:HA	2.18	0.69
1:C:1494:MET:HA	1:C:1540:PHE:CZ	2.27	0.69
1:D:1462:MET:C	1:D:1555:LEU:HD22	2.13	0.69
1:B:207:SER:CB	1:B:269:TRP:CZ3	2.73	0.69
1:B:1003:GLN:OE1	1:B:1003:GLN:CA	2.41	0.69
1:B:1466:LEU:H	1:B:1553:PHE:HB3	1.57	0.69
1:C:1452:TRP:HB3	1:C:1548:LEU:CB	2.23	0.69
1:D:324:ASP:N	1:D:325:THR:HA	2.07	0.69
1:D:1434:TYR:CD1	1:D:1570:LYS:CG	2.76	0.69
1:D:3134:UNK:O	1:D:3138:UNK:N	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:205:ILE:O	1:A:269:TRP:CA	2.34	0.69
1:A:332:GLU:OE1	1:A:332:GLU:HA	1.92	0.69
1:A:424:LYS:HZ1	1:A:506:TYR:H	1.40	0.69
1:B:1020:ARG:O	1:B:1020:ARG:HD3	1.93	0.69
1:B:1434:TYR:CD1	1:B:1570:LYS:CG	2.75	0.69
1:B:1452:TRP:HB3	1:B:1548:LEU:CB	2.23	0.69
1:B:3134:UNK:O	1:B:3138:UNK:N	2.25	0.69
1:A:275:ARG:HH22	1:A:336:PRO:HD2	1.58	0.69
1:A:324:ASP:N	1:A:325:THR:HA	2.07	0.69
1:A:1000:ARG:CD	1:A:1000:ARG:C	2.60	0.69
1:A:1452:TRP:CH2	1:A:1527:MET:CG	2.73	0.69
1:A:1462:MET:C	1:A:1555:LEU:HD22	2.13	0.69
1:A:3134:UNK:O	1:A:3138:UNK:N	2.25	0.69
1:B:80:GLU:CD	1:C:3932:UNK:CB	2.60	0.69
1:B:998:ARG:HD2	1:B:999:ASP:OD1	1.91	0.69
1:C:1000:ARG:NE	1:C:1007:TYR:OH	2.26	0.69
1:D:953:THR:HG22	1:D:971:ASP:OD1	1.92	0.69
1:D:1494:MET:HA	1:D:1540:PHE:CZ	2.27	0.69
1:A:80:GLU:OE1	1:B:3932:UNK:HA	1.93	0.69
1:A:996:TRP:CZ2	1:A:1020:ARG:N	2.49	0.69
1:A:998:ARG:HD3	1:A:999:ASP:OD1	1.93	0.69
1:A:1020:ARG:O	1:A:1020:ARG:HD3	1.93	0.69
1:A:1439:VAL:CB	1:A:1514:LEU:O	2.16	0.69
1:A:4117:UNK:CB	1:A:4121:UNK:HA	2.23	0.69
1:B:657:THR:HG22	1:B:662:TRP:CZ2	2.28	0.69
1:B:1000:ARG:CD	1:B:1000:ARG:C	2.60	0.69
1:B:1439:VAL:CA	1:B:1515:VAL:HA	2.18	0.69
1:C:324:ASP:N	1:C:325:THR:HA	2.07	0.69
1:C:998:ARG:HD2	1:C:999:ASP:OD1	1.92	0.69
1:D:1476:MET:HE3	1:D:1516:ILE:CD1	2.22	0.69
1:D:2073:UNK:CB	1:D:2094:UNK:CA	2.69	0.69
1:A:126:SER:HB3	1:A:130:LYS:HD2	1.74	0.69
1:A:1472:VAL:HG11	1:A:1527:MET:SD	2.33	0.69
1:A:1494:MET:HA	1:A:1540:PHE:CZ	2.27	0.69
1:B:1434:TYR:CD1	1:B:1570:LYS:CD	2.71	0.69
1:A:953:THR:HG22	1:A:971:ASP:OD1	1.92	0.69
1:B:953:THR:HG22	1:B:971:ASP:OD1	1.92	0.69
1:B:1462:MET:C	1:B:1555:LEU:HD22	2.13	0.69
1:C:998:ARG:HD3	1:C:999:ASP:OD1	1.93	0.69
1:C:1001:VAL:CG1	1:C:1005:TRP:NE1	2.50	0.69
1:C:1466:LEU:H	1:C:1553:PHE:HB3	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:87:GLU:OE1	1:D:87:GLU:N	2.26	0.69
1:D:126:SER:HB3	1:D:130:LYS:HD2	1.74	0.69
1:D:1000:ARG:CD	1:D:1000:ARG:C	2.60	0.69
1:D:1452:TRP:HB3	1:D:1548:LEU:CB	2.23	0.69
1:D:4117:UNK:CB	1:D:4121:UNK:HA	2.23	0.69
1:A:1452:TRP:HB3	1:A:1548:LEU:CB	2.23	0.68
1:A:4561:UNK:O	1:A:4564:UNK:N	2.24	0.68
1:B:953:THR:HG23	1:B:971:ASP:OD1	1.92	0.68
1:B:1018:ASN:CB	1:B:1021:LEU:CD2	2.30	0.68
1:C:1000:ARG:CD	1:C:1000:ARG:C	2.60	0.68
1:C:1472:VAL:HG11	1:C:1527:MET:SD	2.33	0.68
1:D:1452:TRP:CH2	1:D:1527:MET:CG	2.73	0.68
1:B:275:ARG:HH22	1:B:336:PRO:HD2	1.57	0.68
1:B:324:ASP:N	1:B:325:THR:HA	2.07	0.68
1:C:953:THR:HG23	1:C:971:ASP:OD1	1.93	0.68
1:C:87:GLU:OE1	1:C:87:GLU:N	2.26	0.68
1:C:996:TRP:CZ2	1:C:1020:ARG:N	2.49	0.68
1:C:1476:MET:CE	1:C:1516:ILE:HD11	2.17	0.68
1:D:323:LEU:H	1:D:323:LEU:CD2	2.04	0.68
1:B:4117:UNK:CB	1:B:4121:UNK:HA	2.23	0.68
1:C:469:ARG:HA	1:C:472:ARG:NH1	2.09	0.68
1:C:4117:UNK:CB	1:C:4121:UNK:HA	2.23	0.68
1:D:956:PRO:HD2	1:D:959:TYR:CB	2.24	0.68
1:D:988:LEU:HB3	1:D:1039:LEU:HD22	1.76	0.68
1:D:1558:HIS:CD2	1:D:1559:GLN:N	2.62	0.68
1:A:956:PRO:HD2	1:A:959:TYR:CB	2.24	0.68
1:B:1472:VAL:HG11	1:B:1527:MET:SD	2.33	0.68
1:C:332:GLU:OE1	1:C:332:GLU:HA	1.92	0.68
1:D:469:ARG:HA	1:D:472:ARG:NH1	2.09	0.68
1:D:953:THR:HG23	1:D:971:ASP:OD1	1.92	0.68
1:D:1472:VAL:HG11	1:D:1527:MET:SD	2.33	0.68
1:A:362:PRO:HG2	1:A:364:PRO:HB3	1.75	0.68
1:B:80:GLU:OE1	1:C:3932:UNK:HA	1.92	0.68
1:B:82:LEU:CD1	1:B:144:GLU:OE2	2.42	0.68
1:B:126:SER:HB3	1:B:130:LYS:HD2	1.74	0.68
1:C:953:THR:HG22	1:C:971:ASP:OD1	1.92	0.68
1:D:362:PRO:HG2	1:D:364:PRO:HB3	1.75	0.68
1:D:728:ARG:HG3	1:D:1119:GLU:OE2	1.92	0.68
1:D:1459:GLN:HG2	1:D:1553:PHE:HD1	1.58	0.68
1:A:988:LEU:HB3	1:A:1039:LEU:HD22	1.76	0.68
1:B:988:LEU:HB3	1:B:1039:LEU:HD22	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:728:ARG:HG3	1:C:1119:GLU:OE2	1.92	0.68
1:D:4710:UNK:C	1:D:4719:UNK:CB	2.66	0.68
1:A:87:GLU:OE1	1:A:87:GLU:N	2.26	0.68
1:A:131:LEU:HB3	1:A:178:ARG:NH1	2.09	0.68
1:A:657:THR:HB	1:A:662:TRP:NE1	2.09	0.68
1:C:993:HIS:C	1:C:996:TRP:CE3	2.67	0.68
1:D:1466:LEU:H	1:D:1553:PHE:HB3	1.57	0.68
1:A:1003:GLN:CA	1:A:1003:GLN:OE1	2.41	0.68
1:A:3932:UNK:CB	1:D:80:GLU:CD	2.61	0.68
1:B:368:ARG:HH12	1:B:371:VAL:HB	1.57	0.68
1:C:275:ARG:HH22	1:C:336:PRO:HD2	1.58	0.68
1:C:956:PRO:HD2	1:C:959:TYR:CB	2.24	0.68
1:C:1020:ARG:O	1:C:1020:ARG:HD3	1.93	0.68
1:C:1558:HIS:CD2	1:C:1559:GLN:N	2.61	0.68
1:D:275:ARG:HH22	1:D:336:PRO:HD2	1.57	0.68
1:D:1003:GLN:OE1	1:D:1003:GLN:CA	2.41	0.68
1:A:151:HIS:HB2	1:A:170:ILE:HG22	1.76	0.68
1:A:368:ARG:HH12	1:A:371:VAL:HB	1.57	0.68
1:B:364:PRO:C	1:B:369:LEU:HD12	2.14	0.68
1:C:1434:TYR:CD1	1:C:1570:LYS:CD	2.71	0.68
1:A:953:THR:HG23	1:A:971:ASP:OD1	1.93	0.67
1:A:1558:HIS:CD2	1:A:1559:GLN:N	2.62	0.67
1:B:131:LEU:HB3	1:B:178:ARG:NH1	2.09	0.67
1:B:329:ARG:HG3	1:B:329:ARG:NH1	1.97	0.67
1:B:332:GLU:OE1	1:B:332:GLU:HA	1.92	0.67
1:B:362:PRO:HG2	1:B:364:PRO:HB3	1.75	0.67
1:B:953:THR:O	1:B:959:TYR:CE2	2.44	0.67
1:A:1429:ASN:HB2	1:A:1547:LYS:HD2	1.76	0.67
1:B:469:ARG:HA	1:B:472:ARG:NH1	2.09	0.67
1:C:988:LEU:HB3	1:C:1039:LEU:HD22	1.76	0.67
1:A:82:LEU:CD1	1:A:144:GLU:OE2	2.42	0.67
1:A:1004:GLY:HA3	1:A:1015:ALA:HB2	1.71	0.67
1:B:87:GLU:OE1	1:B:87:GLU:N	2.26	0.67
1:B:2299:UNK:CB	1:B:2352:UNK:C	2.73	0.67
1:B:76:ARG:O	1:B:79:GLN:HG2	1.95	0.67
1:B:956:PRO:HD2	1:B:959:TYR:CB	2.24	0.67
1:B:1558:HIS:CD2	1:B:1559:GLN:N	2.62	0.67
1:D:131:LEU:HB3	1:D:178:ARG:NH1	2.09	0.67
1:D:368:ARG:HH12	1:D:371:VAL:HB	1.57	0.67
1:D:1434:TYR:CD1	1:D:1570:LYS:CD	2.71	0.67
1:A:4710:UNK:C	1:A:4719:UNK:CB	2.66	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:76:ARG:O	1:C:79:GLN:HG2	1.95	0.67
1:C:80:GLU:CD	1:D:3932:UNK:CB	2.61	0.67
1:C:1004:GLY:HA3	1:C:1015:ALA:HB2	1.71	0.67
1:D:364:PRO:C	1:D:369:LEU:HD12	2.14	0.67
1:D:998:ARG:HD3	1:D:999:ASP:OD1	1.93	0.67
1:D:1000:ARG:NE	1:D:1007:TYR:OH	2.26	0.67
1:D:1453:VAL:O	1:D:1548:LEU:CA	2.43	0.67
1:D:1477:GLY:C	1:D:1509:ILE:CG2	2.63	0.67
1:A:993:HIS:C	1:A:996:TRP:CE3	2.67	0.67
1:A:1000:ARG:NE	1:A:1007:TYR:OH	2.26	0.67
1:C:80:GLU:OE1	1:D:3932:UNK:HA	1.94	0.67
1:C:368:ARG:HH12	1:C:371:VAL:HB	1.57	0.67
1:C:953:THR:O	1:C:959:TYR:CE2	2.44	0.67
1:D:956:PRO:C	1:D:958:THR:N	2.48	0.67
1:D:1000:ARG:HG3	1:D:1018:ASN:ND2	2.10	0.67
1:D:1020:ARG:O	1:D:1020:ARG:HD3	1.93	0.67
1:B:19:GLU:HG2	1:B:205:ILE:HG13	1.77	0.67
1:B:1021:LEU:C	1:B:1022:VAL:HG13	2.15	0.67
1:C:82:LEU:CD1	1:C:144:GLU:OE2	2.42	0.67
1:C:131:LEU:HB3	1:C:178:ARG:NH1	2.09	0.67
1:C:329:ARG:HG3	1:C:329:ARG:NH1	1.97	0.67
1:C:362:PRO:HG2	1:C:364:PRO:HB3	1.75	0.67
1:D:19:GLU:HG2	1:D:205:ILE:HG13	1.77	0.67
1:D:993:HIS:C	1:D:996:TRP:CE3	2.67	0.67
1:D:1001:VAL:O	1:D:1005:TRP:CD1	2.48	0.67
1:D:1466:LEU:CD2	1:D:1551:ALA:O	2.41	0.67
1:A:469:ARG:HA	1:A:472:ARG:NH1	2.09	0.67
1:B:1001:VAL:HG13	1:B:1005:TRP:CE2	2.30	0.67
1:B:1477:GLY:C	1:B:1509:ILE:CG2	2.63	0.67
1:C:19:GLU:HG2	1:C:205:ILE:HG13	1.77	0.67
1:C:2299:UNK:CB	1:C:2352:UNK:C	2.73	0.67
1:D:210:GLU:HG3	1:D:337:PRO:HG3	1.76	0.67
1:A:19:GLU:HG2	1:A:205:ILE:HG13	1.77	0.67
1:A:364:PRO:C	1:A:369:LEU:HD12	2.14	0.67
1:A:1021:LEU:C	1:A:1022:VAL:HG13	2.15	0.67
1:B:752:VAL:CG2	1:B:754:SER:CB	2.71	0.67
1:B:1001:VAL:O	1:B:1005:TRP:CD1	2.48	0.67
1:C:1000:ARG:HG3	1:C:1018:ASN:ND2	2.10	0.67
1:C:1003:GLN:CA	1:C:1003:GLN:OE1	2.41	0.67
1:A:1001:VAL:HG13	1:A:1005:TRP:CE2	2.30	0.67
1:A:1453:VAL:O	1:A:1548:LEU:CA	2.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1477:GLY:C	1:A:1509:ILE:CG2	2.63	0.67
1:C:364:PRO:C	1:C:369:LEU:HD12	2.14	0.67
1:D:76:ARG:O	1:D:79:GLN:HG2	1.95	0.67
1:D:151:HIS:HB2	1:D:170:ILE:HG22	1.76	0.67
1:D:657:THR:HB	1:D:662:TRP:NE1	2.09	0.67
1:C:657:THR:HB	1:C:662:TRP:NE1	2.09	0.66
1:D:82:LEU:CD1	1:D:144:GLU:OE2	2.42	0.66
1:D:1439:VAL:CA	1:D:1515:VAL:HA	2.18	0.66
1:A:210:GLU:HG3	1:A:337:PRO:HG3	1.76	0.66
1:A:996:TRP:HE1	1:A:1018:ASN:HB3	1.61	0.66
1:A:998:ARG:NE	1:A:999:ASP:N	2.43	0.66
1:A:1001:VAL:O	1:A:1005:TRP:CD1	2.48	0.66
1:A:2299:UNK:CB	1:A:2352:UNK:C	2.73	0.66
1:B:956:PRO:CD	1:B:959:TYR:CB	2.73	0.66
1:C:752:VAL:CG2	1:C:754:SER:CB	2.71	0.66
1:C:851:PHE:CE2	1:C:1021:LEU:HA	2.31	0.66
1:C:956:PRO:HG2	1:C:959:TYR:CE1	2.15	0.66
1:C:1021:LEU:C	1:C:1022:VAL:HG13	2.15	0.66
1:D:959:TYR:HB3	1:D:963:ASN:ND2	2.11	0.66
1:D:2299:UNK:CB	1:D:2352:UNK:C	2.73	0.66
1:A:426:ARG:CZ	1:A:796:ARG:HH22	2.08	0.66
1:A:1459:GLN:HG2	1:A:1553:PHE:HD1	1.58	0.66
1:B:956:PRO:HD2	1:B:959:TYR:H	1.60	0.66
1:C:1477:GLY:C	1:C:1509:ILE:CG2	2.63	0.66
1:D:21:VAL:CG1	1:D:205:ILE:HD11	2.04	0.66
1:A:959:TYR:HB3	1:A:963:ASN:ND2	2.11	0.66
1:B:657:THR:HB	1:B:662:TRP:NE1	2.09	0.66
1:B:996:TRP:CH2	1:B:1021:LEU:HD13	2.25	0.66
1:C:426:ARG:CZ	1:C:796:ARG:HH22	2.08	0.66
1:C:1459:GLN:HG2	1:C:1553:PHE:HD1	1.58	0.66
1:A:76:ARG:O	1:A:79:GLN:HG2	1.95	0.66
1:B:151:HIS:HB2	1:B:170:ILE:HG22	1.76	0.66
1:B:993:HIS:C	1:B:996:TRP:CE3	2.67	0.66
1:B:1000:ARG:HG3	1:B:1018:ASN:ND2	2.10	0.66
1:C:424:LYS:HZ3	1:C:505:GLU:HB2	1.59	0.66
1:D:953:THR:O	1:D:959:TYR:CE2	2.44	0.66
1:D:1439:VAL:CG1	1:D:1514:LEU:O	2.43	0.66
1:A:1439:VAL:CA	1:A:1515:VAL:HA	2.18	0.66
1:A:1658:UNK:O	1:A:1665:UNK:CB	2.44	0.66
1:D:657:THR:HG22	1:D:662:TRP:CZ2	2.29	0.66
1:B:1439:VAL:HG12	1:B:1514:LEU:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:210:GLU:HG3	1:C:337:PRO:HG3	1.76	0.66
1:C:956:PRO:C	1:C:958:THR:N	2.48	0.66
1:C:1001:VAL:O	1:C:1005:TRP:CD1	2.48	0.66
1:C:1429:ASN:HB2	1:C:1547:LYS:HD2	1.76	0.66
1:C:1439:VAL:HG12	1:C:1514:LEU:O	1.96	0.66
1:C:1439:VAL:CG1	1:C:1514:LEU:O	2.43	0.66
1:D:1429:ASN:HB2	1:D:1547:LYS:HD2	1.76	0.66
1:A:1439:VAL:CG1	1:A:1514:LEU:O	2.43	0.66
1:B:1016:ARG:CZ	1:B:1016:ARG:CB	2.61	0.66
1:B:1429:ASN:HB2	1:B:1547:LYS:HD2	1.76	0.66
1:C:1453:VAL:O	1:C:1548:LEU:CA	2.43	0.66
1:C:4710:UNK:C	1:C:4719:UNK:CB	2.66	0.66
1:D:426:ARG:CZ	1:D:796:ARG:HH22	2.08	0.66
1:A:1000:ARG:HG3	1:A:1018:ASN:ND2	2.10	0.66
1:B:996:TRP:HZ2	1:B:1021:LEU:CD1	1.90	0.66
1:B:1439:VAL:CG1	1:B:1514:LEU:O	2.43	0.66
1:D:84:ASN:HD22	1:D:84:ASN:N	1.94	0.66
1:D:1444:GLU:N	1:D:1445:PRO:HA	2.11	0.66
1:A:1434:TYR:CD1	1:A:1570:LYS:CD	2.71	0.66
1:A:1476:MET:HE3	1:A:1516:ILE:CD1	2.26	0.66
1:B:948:ASP:HB3	1:B:959:TYR:HE1	1.61	0.66
1:B:1444:GLU:N	1:B:1445:PRO:HA	2.10	0.66
1:D:1658:UNK:O	1:D:1665:UNK:CB	2.44	0.66
1:A:956:PRO:HD2	1:A:959:TYR:H	1.60	0.65
1:A:956:PRO:HG2	1:A:959:TYR:CE1	2.15	0.65
1:B:1658:UNK:O	1:B:1665:UNK:CB	2.44	0.65
1:C:84:ASN:HD22	1:C:84:ASN:N	1.94	0.65
1:A:851:PHE:CE2	1:A:1021:LEU:HA	2.31	0.65
1:A:948:ASP:HB3	1:A:959:TYR:HE1	1.62	0.65
1:B:84:ASN:HD22	1:B:84:ASN:N	1.94	0.65
1:B:317:ARG:HH12	1:B:322:LYS:HA	1.58	0.65
1:B:996:TRP:HE1	1:B:1018:ASN:HB3	1.60	0.65
1:D:996:TRP:HE1	1:D:1018:ASN:HB3	1.60	0.65
1:A:1003:GLN:OE1	1:A:1003:GLN:N	2.30	0.65
1:B:998:ARG:HD3	1:B:999:ASP:OD1	1.93	0.65
1:B:1000:ARG:NE	1:B:1007:TYR:OH	2.26	0.65
1:B:1453:VAL:O	1:B:1548:LEU:CA	2.43	0.65
1:C:151:HIS:HB2	1:C:170:ILE:HG22	1.76	0.65
1:C:959:TYR:HB3	1:C:963:ASN:ND2	2.11	0.65
1:D:948:ASP:HB3	1:D:959:TYR:HE1	1.62	0.65
1:A:84:ASN:HD22	1:A:84:ASN:N	1.94	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1422:ASP:HB3	1:A:1549:PHE:HE1	1.61	0.65
1:B:426:ARG:CZ	1:B:796:ARG:HH22	2.08	0.65
1:B:999:ASP:O	1:B:1003:GLN:NE2	2.30	0.65
1:B:1003:GLN:OE1	1:B:1003:GLN:N	2.30	0.65
1:C:948:ASP:HB3	1:C:959:TYR:HE1	1.61	0.65
1:B:424:LYS:HB3	1:B:506:TYR:HD1	1.61	0.65
1:B:851:PHE:CE2	1:B:1021:LEU:HA	2.31	0.65
1:C:424:LYS:HB3	1:C:506:TYR:HD1	1.61	0.65
1:C:752:VAL:CB	1:C:754:SER:HB2	2.27	0.65
1:C:994:ASN:OD1	1:C:995:VAL:N	2.30	0.65
1:D:1021:LEU:C	1:D:1022:VAL:HG13	2.15	0.65
1:A:994:ASN:OD1	1:A:995:VAL:N	2.30	0.65
1:B:210:GLU:HG3	1:B:337:PRO:HG3	1.76	0.65
1:B:1000:ARG:NH1	1:B:1007:TYR:OH	2.30	0.65
1:C:657:THR:HG21	1:C:662:TRP:CE2	2.05	0.65
1:C:1444:GLU:N	1:C:1445:PRO:HA	2.10	0.65
1:C:1466:LEU:CD2	1:C:1551:ALA:O	2.41	0.65
1:D:996:TRP:HZ2	1:D:1021:LEU:CD1	1.90	0.65
1:B:728:ARG:HD2	1:B:1134:LEU:HD22	1.79	0.65
1:A:415:ILE:HB	1:A:493:ARG:NH1	2.12	0.65
1:A:953:THR:O	1:A:959:TYR:CE2	2.44	0.65
1:B:1001:VAL:CG1	1:B:1005:TRP:NE1	2.50	0.65
1:B:1018:ASN:N	1:B:1018:ASN:OD1	2.30	0.65
1:C:1018:ASN:OD1	1:C:1018:ASN:N	2.30	0.65
1:C:4086:UNK:O	1:C:4124:UNK:HA	1.97	0.65
1:D:752:VAL:CB	1:D:754:SER:HB2	2.27	0.65
1:B:956:PRO:C	1:B:958:THR:N	2.48	0.65
1:B:994:ASN:OD1	1:B:995:VAL:N	2.30	0.65
1:C:728:ARG:HD2	1:C:1134:LEU:HD22	1.79	0.65
1:C:948:ASP:OD2	1:C:959:TYR:HE1	1.79	0.65
1:C:1015:ALA:O	1:C:1016:ARG:NE	2.30	0.65
1:D:567:UNK:O	1:D:570:UNK:N	2.30	0.65
1:D:851:PHE:CE2	1:D:1021:LEU:HA	2.31	0.65
1:B:948:ASP:HB3	1:B:959:TYR:CE1	2.32	0.65
1:B:1015:ALA:O	1:B:1016:ARG:NE	2.30	0.65
1:C:567:UNK:O	1:C:570:UNK:N	2.30	0.65
1:C:948:ASP:HB3	1:C:959:TYR:CE1	2.32	0.65
1:C:1658:UNK:O	1:C:1665:UNK:CB	2.44	0.65
1:D:948:ASP:OD2	1:D:959:TYR:HE1	1.79	0.65
1:D:1003:GLN:OE1	1:D:1003:GLN:N	2.30	0.65
1:A:424:LYS:HB3	1:A:506:TYR:HD1	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:657:THR:HB	1:A:662:TRP:CZ2	2.31	0.64
1:A:1444:GLU:N	1:A:1445:PRO:HA	2.11	0.64
1:A:4086:UNK:O	1:A:4124:UNK:HA	1.96	0.64
1:C:208:CYS:O	1:C:334:MET:HG3	1.97	0.64
1:C:324:ASP:HB2	1:C:326:ALA:N	2.12	0.64
1:C:956:PRO:HD2	1:C:959:TYR:H	1.61	0.64
1:C:999:ASP:O	1:C:1003:GLN:NE2	2.30	0.64
1:B:415:ILE:HB	1:B:493:ARG:NH1	2.12	0.64
1:B:752:VAL:HG11	1:B:769:GLU:OE1	1.97	0.64
1:B:1459:GLN:HG2	1:B:1553:PHE:HD1	1.57	0.64
1:C:415:ILE:HB	1:C:493:ARG:NH1	2.12	0.64
1:C:1003:GLN:OE1	1:C:1003:GLN:N	2.30	0.64
1:D:415:ILE:HB	1:D:493:ARG:NH1	2.12	0.64
1:D:657:THR:HB	1:D:662:TRP:CZ2	2.32	0.64
1:D:1001:VAL:CG1	1:D:1005:TRP:NE1	2.50	0.64
1:A:752:VAL:CB	1:A:754:SER:HB2	2.27	0.64
1:A:956:PRO:C	1:A:958:THR:N	2.48	0.64
1:B:368:ARG:NH2	1:B:369:LEU:HD13	2.13	0.64
1:B:1466:LEU:CD2	1:B:1551:ALA:O	2.41	0.64
1:D:4086:UNK:O	1:D:4124:UNK:HA	1.96	0.64
1:A:324:ASP:HB2	1:A:326:ALA:N	2.12	0.64
1:A:424:LYS:HZ3	1:A:505:GLU:HB2	1.60	0.64
1:A:1018:ASN:N	1:A:1018:ASN:OD1	2.30	0.64
1:B:170:ILE:HG12	1:B:197:GLN:HE21	1.63	0.64
1:B:4086:UNK:O	1:B:4124:UNK:HA	1.96	0.64
1:C:998:ARG:NE	1:C:999:ASP:N	2.43	0.64
1:D:1422:ASP:HB3	1:D:1549:PHE:HE1	1.61	0.64
1:A:657:THR:HG22	1:A:662:TRP:CZ2	2.28	0.64
1:A:999:ASP:O	1:A:1003:GLN:NE2	2.30	0.64
1:B:324:ASP:HB2	1:B:326:ALA:N	2.12	0.64
1:B:657:THR:HB	1:B:662:TRP:CZ2	2.32	0.64
1:B:948:ASP:OD2	1:B:959:TYR:HE1	1.79	0.64
1:B:959:TYR:HB3	1:B:963:ASN:ND2	2.11	0.64
1:B:1478:ASP:O	1:B:1509:ILE:CG2	2.46	0.64
1:C:995:VAL:O	1:C:998:ARG:CG	2.44	0.64
1:C:1000:ARG:CD	1:C:1016:ARG:HD2	2.28	0.64
1:D:994:ASN:OD1	1:D:995:VAL:N	2.30	0.64
1:D:3398:UNK:O	1:D:3400:UNK:N	2.31	0.64
1:A:1434:TYR:CE1	1:A:1570:LYS:CB	2.80	0.64
1:B:1000:ARG:CD	1:B:1016:ARG:HD2	2.28	0.64
1:B:1474:VAL:HB	1:B:1529:PHE:HE2	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1558:HIS:CG	1:B:1559:GLN:H	2.14	0.64
1:C:206:CYS:C	1:C:269:TRP:CE3	2.70	0.64
1:C:222:LEU:HA	1:C:390:LEU:CD2	2.28	0.64
1:C:368:ARG:NH2	1:C:369:LEU:HD13	2.13	0.64
1:C:1558:HIS:CG	1:C:1559:GLN:H	2.13	0.64
1:D:206:CYS:C	1:D:269:TRP:CE3	2.71	0.64
1:D:208:CYS:O	1:D:334:MET:HG3	1.97	0.64
1:D:324:ASP:HB2	1:D:326:ALA:N	2.12	0.64
1:D:999:ASP:O	1:D:1003:GLN:NE2	2.30	0.64
1:A:948:ASP:OD2	1:A:959:TYR:HE1	1.79	0.64
1:A:1000:ARG:NH1	1:A:1007:TYR:OH	2.30	0.64
1:A:1474:VAL:HB	1:A:1529:PHE:HE2	1.63	0.64
1:A:1478:ASP:O	1:A:1509:ILE:CG2	2.46	0.64
1:B:222:LEU:HA	1:B:390:LEU:CD2	2.28	0.64
1:B:752:VAL:CB	1:B:754:SER:HB2	2.27	0.64
1:C:3398:UNK:O	1:C:3400:UNK:N	2.31	0.64
1:D:222:LEU:HA	1:D:390:LEU:CD2	2.28	0.64
1:D:956:PRO:HD2	1:D:959:TYR:H	1.61	0.64
1:D:1018:ASN:N	1:D:1018:ASN:OD1	2.30	0.64
1:A:1001:VAL:CG1	1:A:1005:TRP:NE1	2.50	0.64
1:A:1015:ALA:O	1:A:1016:ARG:NE	2.30	0.64
1:B:208:CYS:O	1:B:334:MET:HG3	1.97	0.64
1:B:424:LYS:HB3	1:B:506:TYR:CD1	2.33	0.64
1:B:1434:TYR:CE1	1:B:1570:LYS:CB	2.80	0.64
1:C:350:HIS:HD2	1:C:353:SER:H	1.46	0.64
1:C:996:TRP:HE1	1:C:1018:ASN:HB3	1.60	0.64
1:C:1474:VAL:HB	1:C:1529:PHE:HE2	1.63	0.64
1:C:1478:ASP:O	1:C:1509:ILE:CG2	2.46	0.64
1:D:998:ARG:NE	1:D:999:ASP:N	2.43	0.64
1:A:567:UNK:O	1:A:570:UNK:N	2.30	0.64
1:A:948:ASP:HB3	1:A:959:TYR:CE1	2.32	0.64
1:B:76:ARG:HD3	1:C:3929:UNK:O	1.98	0.64
1:B:206:CYS:C	1:B:269:TRP:CE3	2.70	0.64
1:C:1000:ARG:NH1	1:C:1007:TYR:OH	2.30	0.64
1:C:4703:UNK:CA	1:C:4706:UNK:CB	2.72	0.64
1:D:368:ARG:NH2	1:D:369:LEU:HD13	2.13	0.64
1:D:424:LYS:HB3	1:D:506:TYR:HD1	1.61	0.64
1:D:1085:SER:HA	1:D:1155:LEU:HG	1.80	0.64
1:D:1439:VAL:HG12	1:D:1514:LEU:O	1.96	0.64
1:D:1558:HIS:CG	1:D:1559:GLN:H	2.13	0.64
1:A:206:CYS:C	1:A:269:TRP:CE3	2.70	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:956:PRO:CD	1:A:959:TYR:CB	2.73	0.64
1:A:1439:VAL:HG12	1:A:1514:LEU:O	1.96	0.64
1:A:3398:UNK:O	1:A:3400:UNK:N	2.31	0.64
1:B:350:HIS:HD2	1:B:353:SER:H	1.46	0.64
1:C:170:ILE:HG12	1:C:197:GLN:HE21	1.63	0.64
1:C:424:LYS:HB3	1:C:506:TYR:CD1	2.33	0.64
1:C:1001:VAL:HG13	1:C:1005:TRP:CE2	2.30	0.64
1:D:170:ILE:HG12	1:D:197:GLN:HE21	1.63	0.64
1:D:948:ASP:HB3	1:D:959:TYR:CE1	2.32	0.64
1:D:992:GLY:O	1:D:996:TRP:HB3	1.98	0.64
1:D:1478:ASP:O	1:D:1509:ILE:CG2	2.46	0.64
1:D:2285:UNK:C	1:D:2286:UNK:H	2.11	0.64
1:A:368:ARG:NH2	1:A:369:LEU:HD13	2.13	0.63
1:A:2285:UNK:C	1:A:2286:UNK:H	2.11	0.63
1:B:567:UNK:O	1:B:570:UNK:N	2.30	0.63
1:B:992:GLY:O	1:B:996:TRP:HB3	1.98	0.63
1:B:1434:TYR:HE1	1:B:1570:LYS:HB2	1.62	0.63
1:D:255:HIS:CD2	1:D:480:GLU:HG2	2.34	0.63
1:A:424:LYS:HB3	1:A:506:TYR:CD1	2.33	0.63
1:B:3398:UNK:O	1:B:3400:UNK:N	2.31	0.63
1:D:728:ARG:HD2	1:D:1134:LEU:HD22	1.79	0.63
1:A:76:ARG:HD3	1:B:3929:UNK:O	1.98	0.63
1:D:426:ARG:HH21	1:D:796:ARG:HH12	0.68	0.63
1:D:1000:ARG:NH1	1:D:1007:TYR:OH	2.30	0.63
1:D:1015:ALA:O	1:D:1016:ARG:NE	2.30	0.63
1:A:728:ARG:HD2	1:A:1134:LEU:HD22	1.79	0.63
1:A:992:GLY:O	1:A:996:TRP:HB3	1.98	0.63
1:C:255:HIS:CD2	1:C:480:GLU:HG2	2.34	0.63
1:C:992:GLY:O	1:C:996:TRP:HB3	1.98	0.63
1:C:1001:VAL:CG1	1:C:1005:TRP:HE1	1.87	0.63
1:D:1004:GLY:HA3	1:D:1015:ALA:HB2	1.71	0.63
1:D:1474:VAL:HB	1:D:1529:PHE:HE2	1.62	0.63
1:D:1492:CYS:SG	1:D:1539:PHE:CE1	2.92	0.63
1:A:170:ILE:HG12	1:A:197:GLN:HE21	1.63	0.63
1:A:208:CYS:O	1:A:334:MET:HG3	1.97	0.63
1:B:2285:UNK:C	1:B:2286:UNK:H	2.11	0.63
1:C:1434:TYR:CE1	1:C:1570:LYS:CB	2.80	0.63
1:C:2285:UNK:C	1:C:2286:UNK:H	2.11	0.63
1:D:657:THR:HG21	1:D:662:TRP:CE2	2.05	0.63
1:D:1000:ARG:CD	1:D:1016:ARG:HD2	2.28	0.63
1:D:1434:TYR:CE1	1:D:1570:LYS:CB	2.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:222:LEU:HA	1:A:390:LEU:CD2	2.28	0.63
1:A:426:ARG:HH21	1:A:796:ARG:HH12	0.68	0.63
1:B:472:ARG:HA	1:B:475:GLN:HE21	1.64	0.63
1:B:1007:TYR:CD2	1:B:1016:ARG:NH2	2.67	0.63
1:B:1441:ALA:CB	1:B:1513:ASP:CA	2.73	0.63
1:A:255:HIS:CD2	1:A:480:GLU:HG2	2.34	0.63
1:A:1492:CYS:SG	1:A:1539:PHE:CE1	2.92	0.63
1:A:3929:UNK:O	1:D:76:ARG:HD3	1.98	0.63
1:B:1085:SER:HA	1:B:1155:LEU:HG	1.80	0.63
1:C:472:ARG:HA	1:C:475:GLN:HE21	1.64	0.63
1:A:472:ARG:HA	1:A:475:GLN:HE21	1.64	0.63
1:C:1085:SER:HA	1:C:1155:LEU:HG	1.80	0.63
1:D:4703:UNK:CA	1:D:4706:UNK:CB	2.72	0.63
1:D:4792:UNK:O	1:D:4796:UNK:N	2.32	0.63
1:A:954:LYS:HG2	1:A:955:LEU:HG	1.81	0.63
1:A:1000:ARG:CD	1:A:1016:ARG:HD2	2.28	0.63
1:A:1434:TYR:HE1	1:A:1570:LYS:HB2	1.62	0.63
1:B:954:LYS:HG2	1:B:955:LEU:HG	1.81	0.63
1:C:657:THR:HB	1:C:662:TRP:CZ2	2.31	0.63
1:D:855:PRO:CA	1:D:994:ASN:CB	2.73	0.63
1:D:954:LYS:HG2	1:D:955:LEU:HG	1.81	0.63
1:D:956:PRO:CD	1:D:959:TYR:CB	2.73	0.63
1:A:4666:UNK:O	1:A:4670:UNK:N	2.32	0.62
1:B:1422:ASP:HB3	1:B:1549:PHE:HE1	1.61	0.62
1:B:1492:CYS:SG	1:B:1539:PHE:CE1	2.92	0.62
1:B:4703:UNK:CA	1:B:4706:UNK:CB	2.72	0.62
1:C:752:VAL:HG11	1:C:769:GLU:OE1	1.96	0.62
1:C:1492:CYS:SG	1:C:1539:PHE:CE1	2.92	0.62
1:A:350:HIS:HD2	1:A:353:SER:H	1.46	0.62
1:A:2428:UNK:CB	1:A:2498:UNK:N	2.62	0.62
1:B:255:HIS:CD2	1:B:480:GLU:HG2	2.34	0.62
1:B:1021:LEU:O	1:B:1022:VAL:CB	2.47	0.62
1:C:76:ARG:HD3	1:D:3929:UNK:O	2.00	0.62
1:C:1021:LEU:O	1:C:1022:VAL:CB	2.47	0.62
1:C:2428:UNK:CB	1:C:2498:UNK:N	2.62	0.62
1:D:752:VAL:HG11	1:D:769:GLU:OE1	1.96	0.62
1:B:4666:UNK:O	1:B:4670:UNK:N	2.32	0.62
1:C:363:ASP:HB2	1:C:369:LEU:HD11	1.82	0.62
1:C:4792:UNK:O	1:C:4796:UNK:N	2.32	0.62
1:A:1007:TYR:CD2	1:A:1016:ARG:NH2	2.67	0.62
1:A:4792:UNK:O	1:A:4796:UNK:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:363:ASP:HB2	1:B:369:LEU:HD11	1.82	0.62
1:B:1476:MET:HE3	1:B:1516:ILE:CD1	2.29	0.62
1:C:1007:TYR:CD2	1:C:1016:ARG:NH2	2.67	0.62
1:D:752:VAL:CG2	1:D:754:SER:CB	2.71	0.62
1:C:284:HIS:HD2	1:C:287:THR:H	1.47	0.62
1:C:3317:UNK:CB	1:C:3323:UNK:CB	2.78	0.62
1:D:2428:UNK:CB	1:D:2498:UNK:N	2.62	0.62
1:A:3317:UNK:CB	1:A:3323:UNK:CB	2.78	0.62
1:B:284:HIS:HD2	1:B:287:THR:H	1.47	0.62
1:B:855:PRO:CA	1:B:994:ASN:CB	2.73	0.62
1:B:982:THR:HA	1:B:985:VAL:HB	1.82	0.62
1:D:4666:UNK:O	1:D:4670:UNK:N	2.32	0.62
1:A:329:ARG:HH11	1:A:329:ARG:CG	2.04	0.62
1:C:954:LYS:HG2	1:C:955:LEU:HG	1.81	0.62
1:D:472:ARG:HA	1:D:475:GLN:HE21	1.64	0.62
1:D:1132:TRP:HE3	1:D:1135:GLY:HA2	1.65	0.62
1:A:1085:SER:HA	1:A:1155:LEU:HG	1.80	0.62
1:A:4703:UNK:CA	1:A:4706:UNK:CB	2.72	0.62
1:B:995:VAL:O	1:B:998:ARG:CG	2.44	0.62
1:C:317:ARG:HH12	1:C:322:LYS:HA	1.58	0.62
1:C:4666:UNK:O	1:C:4670:UNK:N	2.32	0.62
1:A:467:LYS:NZ	1:A:467:LYS:HB3	2.15	0.62
1:A:1466:LEU:CD2	1:A:1551:ALA:O	2.41	0.62
1:D:982:THR:HA	1:D:985:VAL:HB	1.82	0.62
1:D:1007:TYR:CD2	1:D:1016:ARG:NH2	2.67	0.62
1:D:1434:TYR:HE1	1:D:1570:LYS:HB2	1.62	0.62
1:D:3317:UNK:CB	1:D:3323:UNK:CB	2.78	0.62
1:A:284:HIS:HD2	1:A:287:THR:H	1.47	0.62
1:A:1462:MET:O	1:A:1553:PHE:HZ	1.83	0.62
1:B:956:PRO:C	1:B:958:THR:H	2.02	0.62
1:C:859:VAL:HG13	1:C:860:GLN:HG3	1.80	0.62
1:C:1422:ASP:HB3	1:C:1549:PHE:HE1	1.61	0.62
1:D:317:ARG:NE	1:D:322:LYS:O	2.33	0.62
1:D:328:LYS:HZ2	1:D:329:ARG:N	1.98	0.62
1:D:350:HIS:HD2	1:D:353:SER:H	1.46	0.62
1:D:467:LYS:NZ	1:D:467:LYS:HB3	2.15	0.62
1:A:859:VAL:HG13	1:A:860:GLN:HG3	1.80	0.61
1:A:954:LYS:C	1:A:959:TYR:HD2	2.04	0.61
1:B:729:PRO:O	1:B:730:VAL:HG23	2.00	0.61
1:B:859:VAL:HG13	1:B:860:GLN:HG3	1.80	0.61
1:B:954:LYS:C	1:B:959:TYR:HD2	2.04	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2428:UNK:CB	1:B:2498:UNK:N	2.62	0.61
1:B:3317:UNK:CB	1:B:3323:UNK:CB	2.78	0.61
1:C:92:SER:OG	1:C:94:GLN:NE2	2.25	0.61
1:C:322:LYS:HG2	1:C:324:ASP:OD1	2.00	0.61
1:D:329:ARG:HG3	1:D:329:ARG:NH1	1.97	0.61
1:D:954:LYS:C	1:D:959:TYR:HD2	2.04	0.61
1:A:363:ASP:HB2	1:A:369:LEU:HD11	1.82	0.61
1:A:995:VAL:O	1:A:998:ARG:CG	2.44	0.61
1:A:1132:TRP:HE3	1:A:1135:GLY:HA2	1.65	0.61
1:B:4792:UNK:O	1:B:4796:UNK:N	2.32	0.61
1:C:1132:TRP:HE3	1:C:1135:GLY:HA2	1.65	0.61
1:C:4113:UNK:HA	1:C:4116:UNK:N	2.15	0.61
1:A:77:ALA:HA	1:A:80:GLU:HG2	1.82	0.61
1:C:328:LYS:HZ2	1:C:329:ARG:N	1.98	0.61
1:D:79:GLN:HG2	1:D:80:GLU:H	1.65	0.61
1:A:1437:VAL:H	1:A:1517:GLY:HA2	1.66	0.61
1:B:1132:TRP:HE3	1:B:1135:GLY:HA2	1.65	0.61
1:B:1473:THR:O	1:B:1540:PHE:CZ	2.54	0.61
1:B:4684:UNK:HA	1:B:4687:UNK:CB	2.30	0.61
1:D:4113:UNK:HA	1:D:4116:UNK:N	2.15	0.61
1:A:4113:UNK:HA	1:A:4116:UNK:N	2.15	0.61
1:A:4172:UNK:O	1:A:4173:UNK:C	2.48	0.61
1:B:322:LYS:HG2	1:B:324:ASP:OD1	2.00	0.61
1:C:12:GLN:NE2	1:C:165:VAL:O	2.34	0.61
1:C:954:LYS:C	1:C:959:TYR:HD2	2.04	0.61
1:C:1462:MET:O	1:C:1553:PHE:HZ	1.83	0.61
1:D:284:HIS:HD2	1:D:287:THR:H	1.47	0.61
1:D:424:LYS:HB3	1:D:506:TYR:CD1	2.33	0.61
1:D:859:VAL:HG13	1:D:860:GLN:HG3	1.80	0.61
1:B:77:ALA:HA	1:B:80:GLU:HG2	1.82	0.61
1:B:317:ARG:NE	1:B:322:LYS:O	2.33	0.61
1:B:4113:UNK:HA	1:B:4116:UNK:N	2.15	0.61
1:C:317:ARG:NE	1:C:322:LYS:O	2.33	0.61
1:C:953:THR:HB	1:C:959:TYR:CZ	2.36	0.61
1:C:1473:THR:O	1:C:1540:PHE:CZ	2.54	0.61
1:C:1495:VAL:H	1:C:1540:PHE:HZ	1.48	0.61
1:A:996:TRP:CH2	1:A:1021:LEU:HD13	2.25	0.61
1:A:1474:VAL:HG21	1:A:1539:PHE:CG	2.35	0.61
1:B:92:SER:OG	1:B:94:GLN:NE2	2.25	0.61
1:C:855:PRO:CA	1:C:994:ASN:CB	2.73	0.61
1:D:77:ALA:HA	1:D:80:GLU:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:366:ALA:N	1:D:369:LEU:HG	2.16	0.61
1:D:424:LYS:HZ1	1:D:506:TYR:H	1.49	0.61
1:D:995:VAL:O	1:D:998:ARG:CG	2.44	0.61
1:D:1021:LEU:O	1:D:1022:VAL:CB	2.47	0.61
1:A:1021:LEU:O	1:A:1022:VAL:CB	2.47	0.61
1:B:328:LYS:HZ2	1:B:329:ARG:N	1.98	0.61
1:D:111:HIS:CD2	1:D:114:SER:H	2.13	0.61
1:D:363:ASP:HB2	1:D:369:LEU:HD11	1.82	0.61
1:D:953:THR:HB	1:D:959:TYR:CZ	2.36	0.61
1:A:12:GLN:NE2	1:A:165:VAL:O	2.34	0.61
1:B:4172:UNK:O	1:B:4173:UNK:C	2.48	0.61
1:C:77:ALA:HA	1:C:80:GLU:HG2	1.82	0.61
1:C:729:PRO:O	1:C:730:VAL:HG23	2.01	0.61
1:D:1000:ARG:HG3	1:D:1018:ASN:HD21	1.66	0.61
1:A:111:HIS:CD2	1:A:114:SER:H	2.13	0.61
1:A:317:ARG:CZ	1:A:322:LYS:O	2.49	0.61
1:A:317:ARG:NE	1:A:322:LYS:O	2.33	0.61
1:A:1473:THR:O	1:A:1540:PHE:CZ	2.54	0.61
1:B:467:LYS:NZ	1:B:467:LYS:HB3	2.15	0.61
1:B:1462:MET:O	1:B:1553:PHE:HZ	1.83	0.61
1:C:998:ARG:HD3	1:C:999:ASP:CA	2.31	0.61
1:C:4684:UNK:HA	1:C:4687:UNK:CB	2.30	0.61
1:D:1474:VAL:HG21	1:D:1539:PHE:CG	2.35	0.61
1:A:322:LYS:HG2	1:A:324:ASP:OD1	2.00	0.60
1:A:2428:UNK:CB	1:A:2498:UNK:H2	2.14	0.60
1:A:4684:UNK:HA	1:A:4687:UNK:CB	2.30	0.60
1:B:12:GLN:NE2	1:B:165:VAL:O	2.34	0.60
1:B:317:ARG:CZ	1:B:322:LYS:O	2.49	0.60
1:B:2428:UNK:CB	1:B:2498:UNK:H2	2.14	0.60
1:C:317:ARG:CZ	1:C:322:LYS:O	2.49	0.60
1:C:1434:TYR:HE1	1:C:1570:LYS:HB2	1.62	0.60
1:D:322:LYS:HG2	1:D:324:ASP:OD1	2.00	0.60
1:D:355:LEU:HB2	1:D:378:LEU:HD23	1.84	0.60
1:D:1441:ALA:CB	1:D:1513:ASP:CA	2.73	0.60
1:D:1473:THR:O	1:D:1540:PHE:CZ	2.54	0.60
1:A:729:PRO:O	1:A:730:VAL:HG23	2.01	0.60
1:A:752:VAL:HG11	1:A:769:GLU:OE1	1.96	0.60
1:B:1474:VAL:HG21	1:B:1539:PHE:CG	2.35	0.60
1:C:982:THR:HA	1:C:985:VAL:HB	1.82	0.60
1:D:1462:MET:O	1:D:1553:PHE:HZ	1.83	0.60
1:D:4684:UNK:HA	1:D:4687:UNK:CB	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:956:PRO:C	1:A:958:THR:H	2.03	0.60
1:B:255:HIS:CG	1:B:480:GLU:HG2	2.37	0.60
1:B:855:PRO:HA	1:B:994:ASN:CB	2.20	0.60
1:C:366:ALA:N	1:C:369:LEU:HG	2.16	0.60
1:D:855:PRO:N	1:D:994:ASN:HB2	2.16	0.60
1:A:953:THR:HB	1:A:959:TYR:CZ	2.36	0.60
1:A:4797:UNK:O	1:A:4801:UNK:C	2.50	0.60
1:B:320:LYS:O	1:B:356:TRP:HZ2	1.85	0.60
1:B:998:ARG:HD3	1:B:999:ASP:CA	2.31	0.60
1:C:855:PRO:N	1:C:994:ASN:HB2	2.16	0.60
1:C:1474:VAL:HG21	1:C:1539:PHE:CG	2.35	0.60
1:C:467:LYS:HB3	1:C:467:LYS:NZ	2.15	0.60
1:D:12:GLN:NE2	1:D:165:VAL:O	2.34	0.60
1:D:1465:ASP:CB	1:D:1553:PHE:CD2	2.85	0.60
1:D:3137:UNK:CB	1:D:3191:UNK:CB	2.80	0.60
1:A:982:THR:HA	1:A:985:VAL:HB	1.82	0.60
1:A:3137:UNK:CB	1:A:3191:UNK:CB	2.80	0.60
1:B:366:ALA:N	1:B:369:LEU:HG	2.16	0.60
1:B:1495:VAL:H	1:B:1540:PHE:HZ	1.48	0.60
1:D:317:ARG:CZ	1:D:322:LYS:O	2.49	0.60
1:A:328:LYS:HZ2	1:A:329:ARG:N	1.98	0.60
1:A:1495:VAL:H	1:A:1540:PHE:HZ	1.48	0.60
1:B:1435:TYR:CE2	1:B:1520:VAL:HB	2.37	0.60
1:C:255:HIS:CG	1:C:480:GLU:HG2	2.37	0.60
1:C:4172:UNK:O	1:C:4173:UNK:C	2.48	0.60
1:D:317:ARG:HH12	1:D:322:LYS:HA	1.58	0.60
1:D:956:PRO:C	1:D:958:THR:H	2.03	0.60
1:D:1495:VAL:H	1:D:1540:PHE:HZ	1.48	0.60
1:A:355:LEU:HB2	1:A:378:LEU:HD23	1.84	0.60
1:C:956:PRO:C	1:C:958:THR:H	2.03	0.60
1:C:4797:UNK:O	1:C:4801:UNK:C	2.50	0.60
1:D:729:PRO:O	1:D:730:VAL:HG23	2.00	0.60
1:A:752:VAL:CG2	1:A:754:SER:CB	2.71	0.60
1:A:752:VAL:HG13	1:A:769:GLU:OE1	2.01	0.60
1:B:1000:ARG:HG3	1:B:1018:ASN:HD21	1.66	0.60
1:B:1436:SER:HB3	1:B:1567:GLY:HA3	1.84	0.60
1:B:1465:ASP:HA	1:B:1553:PHE:CB	2.31	0.60
1:C:773:LEU:HA	1:C:777:PHE:CZ	2.37	0.60
1:C:1000:ARG:HG3	1:C:1018:ASN:HD21	1.67	0.60
1:C:1465:ASP:CB	1:C:1553:PHE:CD2	2.85	0.60
1:C:4855:UNK:O	1:C:4859:UNK:CB	2.50	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:728:ARG:HD2	1:D:1134:LEU:CB	2.29	0.60
1:D:2428:UNK:CB	1:D:2498:UNK:H2	2.14	0.60
1:A:255:HIS:CG	1:A:480:GLU:HG2	2.37	0.60
1:A:366:ALA:N	1:A:369:LEU:HG	2.16	0.60
1:A:948:ASP:OD2	1:A:959:TYR:CE1	2.55	0.60
1:A:998:ARG:CD	1:A:998:ARG:C	2.70	0.60
1:A:1435:TYR:CE2	1:A:1520:VAL:HB	2.37	0.60
1:A:3400:UNK:O	1:A:3404:UNK:CB	2.50	0.60
1:A:4855:UNK:O	1:A:4859:UNK:CB	2.50	0.60
1:B:953:THR:HB	1:B:959:TYR:CZ	2.36	0.60
1:B:1465:ASP:CB	1:B:1553:PHE:CD2	2.84	0.60
1:C:355:LEU:HB2	1:C:378:LEU:HD23	1.83	0.60
1:C:752:VAL:HG13	1:C:769:GLU:OE1	2.01	0.60
1:D:320:LYS:O	1:D:356:TRP:HZ2	1.85	0.60
1:D:752:VAL:HG13	1:D:769:GLU:OE1	2.01	0.60
1:A:1465:ASP:CB	1:A:1553:PHE:CD2	2.85	0.59
1:B:752:VAL:HG13	1:B:769:GLU:OE1	2.01	0.59
1:B:1437:VAL:H	1:B:1517:GLY:HA2	1.66	0.59
1:B:1474:VAL:HG21	1:B:1539:PHE:CB	2.32	0.59
1:D:1437:VAL:H	1:D:1517:GLY:HA2	1.65	0.59
1:B:12:GLN:HE22	1:B:164:ARG:HB3	1.67	0.59
1:C:79:GLN:HG2	1:C:80:GLU:H	1.65	0.59
1:C:996:TRP:CH2	1:C:1021:LEU:HD13	2.25	0.59
1:C:2428:UNK:CB	1:C:2498:UNK:H2	2.14	0.59
1:D:948:ASP:OD2	1:D:959:TYR:CE1	2.55	0.59
1:A:1474:VAL:HG21	1:A:1539:PHE:CB	2.33	0.59
1:B:948:ASP:OD2	1:B:959:TYR:CE1	2.55	0.59
1:B:3400:UNK:O	1:B:3404:UNK:CB	2.50	0.59
1:B:4797:UNK:O	1:B:4801:UNK:C	2.50	0.59
1:C:320:LYS:O	1:C:356:TRP:HZ2	1.85	0.59
1:D:4100:UNK:O	1:D:4101:UNK:C	2.51	0.59
1:D:4855:UNK:O	1:D:4859:UNK:CB	2.50	0.59
1:A:12:GLN:HE22	1:A:164:ARG:HB3	1.67	0.59
1:A:855:PRO:N	1:A:994:ASN:HB2	2.16	0.59
1:A:1016:ARG:CZ	1:A:1016:ARG:CB	2.61	0.59
1:B:773:LEU:HA	1:B:777:PHE:CZ	2.37	0.59
1:B:855:PRO:N	1:B:994:ASN:HB2	2.16	0.59
1:B:1434:TYR:CD1	1:B:1570:LYS:CB	2.85	0.59
1:C:1004:GLY:N	1:C:1007:TYR:CZ	2.70	0.59
1:D:773:LEU:HA	1:D:777:PHE:CZ	2.37	0.59
1:A:9:ASP:OD1	1:A:11:VAL:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:4100:UNK:O	1:A:4101:UNK:C	2.51	0.59
1:B:1452:TRP:CG	1:B:1527:MET:CE	2.85	0.59
1:C:1432:THR:HG1	1:C:1523:ALA:HB2	1.64	0.59
1:C:1435:TYR:CE2	1:C:1520:VAL:HB	2.37	0.59
1:D:998:ARG:HD3	1:D:999:ASP:CA	2.31	0.59
1:D:1465:ASP:HA	1:D:1553:PHE:CB	2.31	0.59
1:A:728:ARG:CG	1:A:1134:LEU:HD22	2.33	0.59
1:A:4667:UNK:O	1:A:4671:UNK:N	2.36	0.59
1:B:4855:UNK:O	1:B:4859:UNK:CB	2.50	0.59
1:C:1022:VAL:CG2	1:C:1027:LEU:CD2	2.81	0.59
1:C:4667:UNK:O	1:C:4671:UNK:N	2.36	0.59
1:D:4172:UNK:O	1:D:4173:UNK:C	2.48	0.59
1:D:4797:UNK:O	1:D:4801:UNK:C	2.50	0.59
1:A:1004:GLY:N	1:A:1007:TYR:CZ	2.70	0.59
1:A:1436:SER:HB3	1:A:1567:GLY:HA3	1.84	0.59
1:B:111:HIS:CD2	1:B:114:SER:H	2.13	0.59
1:B:355:LEU:HB2	1:B:378:LEU:HD23	1.84	0.59
1:B:1004:GLY:N	1:B:1007:TYR:CZ	2.70	0.59
1:C:1434:TYR:CD1	1:C:1570:LYS:CB	2.85	0.59
1:C:1436:SER:HB3	1:C:1567:GLY:HA3	1.84	0.59
1:C:1437:VAL:H	1:C:1517:GLY:HA2	1.65	0.59
1:C:3137:UNK:CB	1:C:3191:UNK:CB	2.80	0.59
1:D:1494:MET:HA	1:D:1540:PHE:HZ	1.66	0.59
1:D:3400:UNK:O	1:D:3404:UNK:CB	2.50	0.59
1:A:998:ARG:HD3	1:A:999:ASP:CA	2.31	0.59
1:B:2003:UNK:H	1:B:2006:UNK:CB	2.16	0.59
1:C:3400:UNK:O	1:C:3404:UNK:CB	2.50	0.59
1:D:368:ARG:HH11	1:D:368:ARG:CG	2.04	0.59
1:D:578:UNK:HA	1:D:581:UNK:CB	2.33	0.59
1:D:1004:GLY:O	1:D:1008:SER:C	2.41	0.59
1:D:1016:ARG:CZ	1:D:1016:ARG:CB	2.61	0.59
1:D:1435:TYR:CE2	1:D:1520:VAL:HB	2.37	0.59
1:A:320:LYS:O	1:A:356:TRP:HZ2	1.85	0.59
1:A:3697:UNK:HA	1:A:3701:UNK:CB	2.33	0.59
1:B:753:PRO:CG	1:B:773:LEU:HD12	2.07	0.59
1:B:1471:ALA:C	1:B:1472:VAL:HG23	2.24	0.59
1:C:111:HIS:CD2	1:C:114:SER:H	2.13	0.59
1:C:956:PRO:CD	1:C:959:TYR:CB	2.73	0.59
1:C:1474:VAL:HG21	1:C:1539:PHE:CB	2.33	0.59
1:C:2003:UNK:H	1:C:2006:UNK:CB	2.16	0.59
1:D:1022:VAL:CG2	1:D:1027:LEU:CD2	2.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4667:UNK:O	1:D:4671:UNK:N	2.36	0.59
1:A:79:GLN:HG2	1:A:80:GLU:H	1.66	0.59
1:A:727:ALA:HB1	1:A:1119:GLU:OE2	2.03	0.59
1:A:773:LEU:HA	1:A:777:PHE:CZ	2.37	0.59
1:A:1434:TYR:CD1	1:A:1570:LYS:CB	2.85	0.59
1:A:1471:ALA:HB1	1:A:1548:LEU:HD23	1.85	0.59
1:B:4684:UNK:O	1:B:4687:UNK:N	2.36	0.59
1:C:728:ARG:CG	1:C:1134:LEU:HD22	2.33	0.59
1:C:948:ASP:OD2	1:C:959:TYR:CE1	2.55	0.59
1:D:682:LEU:HD11	1:D:787:VAL:HG11	1.85	0.59
1:D:727:ALA:HB1	1:D:1119:GLU:OE2	2.03	0.59
1:D:1436:SER:HB3	1:D:1567:GLY:HA3	1.84	0.59
1:A:1004:GLY:O	1:A:1008:SER:C	2.41	0.58
1:A:1022:VAL:CG2	1:A:1027:LEU:CD2	2.81	0.58
1:B:79:GLN:HG2	1:B:80:GLU:H	1.65	0.58
1:B:682:LEU:HD11	1:B:787:VAL:HG11	1.85	0.58
1:B:4667:UNK:O	1:B:4671:UNK:N	2.36	0.58
1:C:1471:ALA:HB1	1:C:1548:LEU:HD23	1.85	0.58
1:D:998:ARG:CD	1:D:998:ARG:C	2.70	0.58
1:D:1474:VAL:HG21	1:D:1539:PHE:CB	2.33	0.58
1:A:682:LEU:HD11	1:A:787:VAL:HG11	1.85	0.58
1:A:2003:UNK:H	1:A:2006:UNK:CB	2.16	0.58
1:B:9:ASP:OD1	1:B:11:VAL:N	2.35	0.58
1:C:424:LYS:HZ1	1:C:506:TYR:N	2.01	0.58
1:C:682:LEU:HD11	1:C:787:VAL:HG11	1.85	0.58
1:D:12:GLN:HE22	1:D:164:ARG:HB3	1.67	0.58
1:D:1004:GLY:N	1:D:1007:TYR:CZ	2.70	0.58
1:D:1452:TRP:CG	1:D:1527:MET:CE	2.85	0.58
1:A:1000:ARG:HG3	1:A:1018:ASN:HD21	1.66	0.58
1:A:1452:TRP:CG	1:A:1527:MET:CE	2.86	0.58
1:A:1465:ASP:HA	1:A:1553:PHE:CB	2.31	0.58
1:A:4684:UNK:O	1:A:4687:UNK:N	2.36	0.58
1:B:728:ARG:CG	1:B:1134:LEU:HD22	2.33	0.58
1:B:1022:VAL:CG2	1:B:1027:LEU:CD2	2.81	0.58
1:B:1494:MET:HA	1:B:1540:PHE:HZ	1.67	0.58
1:B:3137:UNK:CB	1:B:3191:UNK:CB	2.80	0.58
1:B:3697:UNK:HA	1:B:3701:UNK:CB	2.33	0.58
1:C:12:GLN:HE22	1:C:164:ARG:HB3	1.67	0.58
1:C:75:VAL:CG1	1:C:76:ARG:H	2.13	0.58
1:C:578:UNK:HA	1:C:581:UNK:CB	2.33	0.58
1:C:879:HIS:CE1	1:C:906:CYS:SG	2.97	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4100:UNK:O	1:C:4101:UNK:C	2.51	0.58
1:B:77:ALA:CA	1:B:80:GLU:HG2	2.34	0.58
1:B:426:ARG:HH21	1:B:796:ARG:HH12	0.68	0.58
1:B:727:ALA:HB1	1:B:1119:GLU:OE2	2.03	0.58
1:B:1004:GLY:O	1:B:1008:SER:C	2.41	0.58
1:B:1471:ALA:HB1	1:B:1548:LEU:HD23	1.85	0.58
1:C:727:ALA:HB1	1:C:1119:GLU:OE2	2.03	0.58
1:C:1004:GLY:O	1:C:1008:SER:C	2.41	0.58
1:A:578:UNK:HA	1:A:581:UNK:CB	2.33	0.58
1:A:1466:LEU:HD13	1:A:1551:ALA:HB3	1.86	0.58
1:A:3133:UNK:CB	1:A:3173:UNK:CB	2.82	0.58
1:A:3986:UNK:HA	1:A:3989:UNK:N	2.18	0.58
1:B:1003:GLN:O	1:B:1007:TYR:CE2	2.57	0.58
1:C:998:ARG:CD	1:C:998:ARG:C	2.70	0.58
1:C:1452:TRP:CG	1:C:1527:MET:CE	2.85	0.58
1:D:255:HIS:CG	1:D:480:GLU:HG2	2.37	0.58
1:D:728:ARG:CG	1:D:1134:LEU:HD22	2.33	0.58
1:D:1471:ALA:HB1	1:D:1548:LEU:HD23	1.85	0.58
1:B:578:UNK:HA	1:B:581:UNK:CB	2.33	0.58
1:B:1466:LEU:HD13	1:B:1551:ALA:HB3	1.86	0.58
1:C:728:ARG:HH11	1:C:1134:LEU:N	2.02	0.58
1:C:1471:ALA:C	1:C:1472:VAL:HG23	2.24	0.58
1:C:1494:MET:HA	1:C:1540:PHE:HZ	1.67	0.58
1:D:1434:TYR:CD1	1:D:1570:LYS:CB	2.85	0.58
1:D:2003:UNK:H	1:D:2006:UNK:CB	2.16	0.58
1:D:3986:UNK:HA	1:D:3989:UNK:N	2.18	0.58
1:A:879:HIS:CE1	1:A:906:CYS:SG	2.97	0.58
1:A:1000:ARG:O	1:A:1000:ARG:HD3	2.03	0.58
1:A:1003:GLN:O	1:A:1007:TYR:CE2	2.57	0.58
1:B:319:SER:C	1:B:321:GLU:OE1	2.42	0.58
1:B:3133:UNK:CB	1:B:3173:UNK:CB	2.82	0.58
1:C:77:ALA:CA	1:C:80:GLU:HG2	2.34	0.58
1:D:728:ARG:HH11	1:D:1134:LEU:N	2.02	0.58
1:B:879:HIS:CE1	1:B:906:CYS:SG	2.97	0.58
1:B:3986:UNK:HA	1:B:3989:UNK:N	2.19	0.58
1:B:4100:UNK:O	1:B:4101:UNK:C	2.51	0.58
1:C:1444:GLU:OE1	1:C:1478:ASP:HA	2.04	0.58
1:A:75:VAL:CG1	1:A:76:ARG:H	2.14	0.58
1:A:1494:MET:HA	1:A:1540:PHE:HZ	1.67	0.58
1:B:955:LEU:N	1:B:959:TYR:HD2	2.02	0.58
1:C:319:SER:C	1:C:321:GLU:OE1	2.42	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:319:SER:C	1:D:321:GLU:OE1	2.42	0.58
1:D:320:LYS:O	1:D:356:TRP:CZ2	2.57	0.58
1:D:322:LYS:HB2	1:D:322:LYS:NZ	2.19	0.58
1:D:879:HIS:CE1	1:D:906:CYS:SG	2.96	0.58
1:A:320:LYS:O	1:A:356:TRP:CZ2	2.57	0.58
1:A:322:LYS:HB2	1:A:322:LYS:NZ	2.19	0.58
1:A:955:LEU:N	1:A:959:TYR:HD2	2.02	0.58
1:A:1471:ALA:C	1:A:1472:VAL:HG23	2.24	0.58
1:A:3821:UNK:O	1:A:3826:UNK:CB	2.52	0.58
1:B:1454:THR:CB	1:B:1455:PRO:HD2	2.30	0.58
1:C:1473:THR:O	1:C:1540:PHE:HZ	1.87	0.58
1:D:996:TRP:CH2	1:D:1021:LEU:HD13	2.25	0.58
1:B:1001:VAL:CG1	1:B:1002:ALA:N	2.67	0.57
1:C:1450:VAL:HG11	1:C:1518:CYS:SG	2.44	0.57
1:C:1466:LEU:HD13	1:C:1551:ALA:HB3	1.86	0.57
1:C:3697:UNK:HA	1:C:3701:UNK:CB	2.33	0.57
1:C:3986:UNK:HA	1:C:3989:UNK:N	2.19	0.57
1:D:1450:VAL:HG11	1:D:1518:CYS:SG	2.44	0.57
1:A:77:ALA:CA	1:A:80:GLU:HG2	2.34	0.57
1:C:9:ASP:OD1	1:C:11:VAL:N	2.35	0.57
1:C:1001:VAL:CG1	1:C:1002:ALA:N	2.67	0.57
1:D:4684:UNK:O	1:D:4687:UNK:N	2.36	0.57
1:A:855:PRO:CA	1:A:994:ASN:HB2	2.34	0.57
1:A:1454:THR:HB	1:A:1455:PRO:CD	2.29	0.57
1:B:424:LYS:HZ1	1:B:506:TYR:H	1.50	0.57
1:B:855:PRO:CA	1:B:994:ASN:HB2	2.34	0.57
1:B:3821:UNK:O	1:B:3826:UNK:CB	2.52	0.57
1:C:75:VAL:HA	1:C:78:LEU:HD12	1.86	0.57
1:C:1004:GLY:CA	1:C:1015:ALA:CB	2.60	0.57
1:C:3133:UNK:CB	1:C:3173:UNK:CB	2.81	0.57
1:C:3821:UNK:O	1:C:3826:UNK:CB	2.52	0.57
1:C:4113:UNK:CA	1:C:4116:UNK:CB	2.76	0.57
1:D:92:SER:OG	1:D:94:GLN:NE2	2.25	0.57
1:D:1466:LEU:HD13	1:D:1551:ALA:HB3	1.86	0.57
1:D:3133:UNK:CB	1:D:3173:UNK:CB	2.82	0.57
1:B:320:LYS:O	1:B:356:TRP:CZ2	2.57	0.57
1:B:322:LYS:HB2	1:B:322:LYS:NZ	2.19	0.57
1:C:322:LYS:NZ	1:C:322:LYS:HB2	2.19	0.57
1:A:152:PRO:HB3	1:A:157:ARG:HB2	1.87	0.57
1:A:728:ARG:HH11	1:A:1134:LEU:N	2.02	0.57
1:A:1001:VAL:CG1	1:A:1002:ALA:N	2.67	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:152:PRO:HB3	1:C:157:ARG:HB2	1.87	0.57
1:C:566:UNK:CB	1:C:570:UNK:CB	2.83	0.57
1:C:1003:GLN:O	1:C:1007:TYR:CE2	2.57	0.57
1:D:4113:UNK:CA	1:D:4116:UNK:CB	2.76	0.57
1:A:566:UNK:CB	1:A:570:UNK:CB	2.83	0.57
1:B:566:UNK:CB	1:B:570:UNK:CB	2.83	0.57
1:D:75:VAL:CG1	1:D:76:ARG:H	2.14	0.57
1:D:566:UNK:CB	1:D:570:UNK:CB	2.83	0.57
1:D:3697:UNK:HA	1:D:3701:UNK:CB	2.33	0.57
1:C:1558:HIS:CG	1:C:1559:GLN:N	2.73	0.57
1:D:321:GLU:HB2	1:D:323:LEU:HD12	1.87	0.57
1:D:1003:GLN:O	1:D:1007:TYR:CE2	2.57	0.57
1:D:3821:UNK:O	1:D:3826:UNK:CB	2.52	0.57
1:A:3931:UNK:N	1:D:76:ARG:NH1	2.46	0.57
1:B:4113:UNK:CA	1:B:4116:UNK:CB	2.76	0.57
1:C:1132:TRP:CE3	1:C:1135:GLY:HA2	2.40	0.57
1:D:77:ALA:CA	1:D:80:GLU:HG2	2.34	0.57
1:A:319:SER:C	1:A:321:GLU:OE1	2.42	0.57
1:A:1558:HIS:CG	1:A:1559:GLN:N	2.73	0.57
1:B:152:PRO:HB3	1:B:157:ARG:HB2	1.87	0.57
1:B:728:ARG:HD2	1:B:1134:LEU:CB	2.29	0.57
1:B:728:ARG:HH11	1:B:1134:LEU:N	2.02	0.57
1:B:753:PRO:CG	1:B:773:LEU:HD13	2.12	0.57
1:B:1003:GLN:OE1	1:B:1003:GLN:HA	2.05	0.57
1:C:426:ARG:HH21	1:C:796:ARG:HH12	0.68	0.57
1:D:1444:GLU:OE1	1:D:1478:ASP:HA	2.04	0.57
1:A:1558:HIS:CG	1:A:1559:GLN:H	2.14	0.57
1:B:725:HIS:O	1:B:726:VAL:O	2.23	0.57
1:B:1444:GLU:OE1	1:B:1478:ASP:HA	2.04	0.57
1:C:955:LEU:N	1:C:959:TYR:HD2	2.02	0.57
1:C:4703:UNK:C	1:C:4707:UNK:CB	2.75	0.57
1:D:75:VAL:HA	1:D:78:LEU:HD12	1.87	0.57
1:D:1000:ARG:CG	1:D:1018:ASN:HD21	2.16	0.57
1:D:1001:VAL:CG1	1:D:1002:ALA:N	2.67	0.57
1:D:1452:TRP:CH2	1:D:1527:MET:HG2	2.40	0.57
1:D:1496:TRP:HB2	1:D:1540:PHE:CD1	2.40	0.57
1:A:424:LYS:HZ1	1:A:506:TYR:N	2.01	0.56
1:B:75:VAL:HA	1:B:78:LEU:HD12	1.86	0.56
1:B:1132:TRP:CE3	1:B:1135:GLY:HA2	2.40	0.56
1:C:320:LYS:O	1:C:356:TRP:CZ2	2.57	0.56
1:C:4684:UNK:O	1:C:4687:UNK:N	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:329:ARG:HH11	1:D:329:ARG:CG	2.04	0.56
1:B:1442:GLY:H	1:B:1514:LEU:HB2	1.70	0.56
1:B:1557:THR:O	1:B:1558:HIS:C	2.43	0.56
1:C:672:VAL:HB	1:C:673:PRO:HD2	1.87	0.56
1:C:913:LEU:HD22	1:C:917:GLU:OE1	2.06	0.56
1:C:1452:TRP:CH2	1:C:1527:MET:HG2	2.40	0.56
1:D:725:HIS:O	1:D:726:VAL:O	2.23	0.56
1:D:1132:TRP:CE3	1:D:1135:GLY:HA2	2.40	0.56
1:A:75:VAL:HA	1:A:78:LEU:HD12	1.86	0.56
1:A:92:SER:OG	1:A:94:GLN:NE2	2.25	0.56
1:A:424:LYS:HZ1	1:A:505:GLU:HB2	1.69	0.56
1:A:913:LEU:HD22	1:A:917:GLU:OE1	2.06	0.56
1:A:1132:TRP:CE3	1:A:1135:GLY:HA2	2.39	0.56
1:A:1450:VAL:HG11	1:A:1518:CYS:SG	2.44	0.56
1:B:913:LEU:HD22	1:B:917:GLU:OE1	2.05	0.56
1:B:1454:THR:HB	1:B:1455:PRO:CD	2.29	0.56
1:B:3133:UNK:O	1:B:3137:UNK:N	2.39	0.56
1:C:1496:TRP:HB2	1:C:1540:PHE:CD1	2.40	0.56
1:D:152:PRO:HB3	1:D:157:ARG:HB2	1.87	0.56
1:D:461:HIS:HA	1:D:462:GLU:C	2.26	0.56
1:D:913:LEU:HD22	1:D:917:GLU:OE1	2.06	0.56
1:D:955:LEU:N	1:D:959:TYR:HD2	2.02	0.56
1:D:1000:ARG:O	1:D:1000:ARG:HD3	2.04	0.56
1:D:1558:HIS:CG	1:D:1559:GLN:N	2.73	0.56
1:A:1017:ARG:N	1:A:1017:ARG:NE	2.53	0.56
1:A:3133:UNK:O	1:A:3137:UNK:N	2.39	0.56
1:A:4818:UNK:O	1:A:4821:UNK:N	2.39	0.56
1:B:1000:ARG:O	1:B:1000:ARG:HD3	2.04	0.56
1:B:1450:VAL:HG11	1:B:1518:CYS:SG	2.45	0.56
1:C:1465:ASP:HA	1:C:1553:PHE:CB	2.31	0.56
1:D:1471:ALA:C	1:D:1472:VAL:HG23	2.24	0.56
1:D:3133:UNK:O	1:D:3137:UNK:N	2.39	0.56
1:D:4818:UNK:O	1:D:4821:UNK:N	2.39	0.56
1:A:725:HIS:O	1:A:726:VAL:O	2.23	0.56
1:A:855:PRO:CA	1:A:994:ASN:CB	2.73	0.56
1:B:1496:TRP:HB2	1:B:1540:PHE:CD1	2.40	0.56
1:B:4818:UNK:O	1:B:4821:UNK:N	2.39	0.56
1:D:1433:TYR:CD1	1:D:1569:GLN:HB2	2.41	0.56
1:D:1442:GLY:H	1:D:1514:LEU:HB2	1.70	0.56
1:D:1465:ASP:HB3	1:D:1468:LYS:HG3	1.88	0.56
1:A:461:HIS:HA	1:A:462:GLU:C	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1442:GLY:H	1:A:1514:LEU:HB2	1.70	0.56
1:A:1473:THR:O	1:A:1540:PHE:HZ	1.87	0.56
1:B:1433:TYR:CD1	1:B:1569:GLN:HB2	2.41	0.56
1:C:721:LEU:HD21	1:C:737:LEU:HA	1.88	0.56
1:C:725:HIS:O	1:C:726:VAL:O	2.23	0.56
1:C:855:PRO:CA	1:C:994:ASN:HB2	2.35	0.56
1:C:4848:UNK:HA	1:C:4851:UNK:CB	2.36	0.56
1:D:9:ASP:OD1	1:D:11:VAL:N	2.35	0.56
1:D:721:LEU:HD21	1:D:737:LEU:HA	1.88	0.56
1:B:721:LEU:HD21	1:B:737:LEU:HA	1.88	0.56
1:C:424:LYS:HZ1	1:C:505:GLU:HB2	1.71	0.56
1:C:429:GLY:N	1:C:505:GLU:HG2	2.21	0.56
1:C:1439:VAL:HG21	1:C:1516:ILE:HG22	1.87	0.56
1:C:3400:UNK:CB	1:C:3403:UNK:CB	2.84	0.56
1:D:672:VAL:HB	1:D:673:PRO:HD2	1.87	0.56
1:D:1439:VAL:HG23	1:D:1516:ILE:HG22	1.88	0.56
1:A:1496:TRP:HB2	1:A:1540:PHE:CD1	2.40	0.56
1:C:4818:UNK:O	1:C:4821:UNK:N	2.39	0.56
1:D:429:GLY:N	1:D:505:GLU:HG2	2.21	0.56
1:D:773:LEU:HD23	1:D:777:PHE:CZ	2.41	0.56
1:D:1003:GLN:OE1	1:D:1003:GLN:HA	2.05	0.56
1:D:1557:THR:O	1:D:1558:HIS:C	2.43	0.56
1:D:4848:UNK:HA	1:D:4851:UNK:CB	2.36	0.56
1:A:1441:ALA:CB	1:A:1513:ASP:CA	2.73	0.56
1:A:4848:UNK:HA	1:A:4851:UNK:CB	2.36	0.56
1:B:1473:THR:O	1:B:1540:PHE:HZ	1.87	0.56
1:B:1558:HIS:CG	1:B:1559:GLN:N	2.73	0.56
1:D:784:SER:O	1:D:785:ALA:HB3	2.06	0.56
1:D:948:ASP:O	1:D:958:THR:OG1	2.20	0.56
1:D:1473:THR:O	1:D:1540:PHE:HZ	1.88	0.56
1:A:321:GLU:CB	1:A:323:LEU:HD13	2.36	0.55
1:A:429:GLY:N	1:A:505:GLU:HG2	2.21	0.55
1:A:773:LEU:HD23	1:A:777:PHE:CZ	2.41	0.55
1:A:1433:TYR:CD1	1:A:1569:GLN:HB2	2.41	0.55
1:A:1444:GLU:OE1	1:A:1478:ASP:HA	2.04	0.55
1:C:1000:ARG:O	1:C:1000:ARG:HD3	2.04	0.55
1:A:948:ASP:O	1:A:958:THR:OG1	2.20	0.55
1:A:3400:UNK:CB	1:A:3403:UNK:CB	2.84	0.55
1:B:461:HIS:HA	1:B:462:GLU:C	2.26	0.55
1:C:321:GLU:HB2	1:C:323:LEU:HD12	1.87	0.55
1:C:1433:TYR:CD1	1:C:1569:GLN:HB2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:3306:UNK:CA	1:C:3309:UNK:CB	2.84	0.55
1:D:1494:MET:HG2	1:D:1539:PHE:HB3	1.88	0.55
1:D:4144:UNK:C	1:D:4145:UNK:CA	2.85	0.55
1:A:1003:GLN:OE1	1:A:1003:GLN:HA	2.05	0.55
1:A:1021:LEU:HD13	1:A:1021:LEU:H	1.72	0.55
1:A:4103:UNK:O	1:A:4104:UNK:O	2.25	0.55
1:C:508:GLY:H	1:C:511:ALA:HB3	1.72	0.55
1:C:784:SER:O	1:C:785:ALA:HB3	2.06	0.55
1:C:1442:GLY:H	1:C:1514:LEU:HB2	1.70	0.55
1:C:3133:UNK:O	1:C:3137:UNK:N	2.38	0.55
1:D:508:GLY:H	1:D:511:ALA:HB3	1.72	0.55
1:D:855:PRO:CA	1:D:994:ASN:HB2	2.35	0.55
1:B:1017:ARG:N	1:B:1017:ARG:NE	2.53	0.55
1:C:773:LEU:HD23	1:C:777:PHE:CZ	2.41	0.55
1:C:1465:ASP:HB3	1:C:1468:LYS:HG3	1.88	0.55
1:A:753:PRO:CG	1:A:773:LEU:HD12	2.07	0.55
1:A:2428:UNK:HA	1:A:2498:UNK:N	2.22	0.55
1:A:4144:UNK:C	1:A:4145:UNK:CA	2.85	0.55
1:B:1021:LEU:HD13	1:B:1021:LEU:H	1.72	0.55
1:B:4103:UNK:O	1:B:4104:UNK:O	2.25	0.55
1:B:4848:UNK:HA	1:B:4851:UNK:CB	2.36	0.55
1:C:76:ARG:NH1	1:D:3931:UNK:N	2.48	0.55
1:C:1557:THR:O	1:C:1558:HIS:C	2.43	0.55
1:D:3400:UNK:CB	1:D:3403:UNK:CB	2.84	0.55
1:D:4103:UNK:O	1:D:4104:UNK:O	2.25	0.55
1:A:1452:TRP:CH2	1:A:1527:MET:HG2	2.40	0.55
1:A:3306:UNK:CA	1:A:3309:UNK:CB	2.84	0.55
1:B:321:GLU:HB2	1:B:323:LEU:HD12	1.87	0.55
1:C:1435:TYR:HB2	1:C:1518:CYS:O	2.07	0.55
1:C:4703:UNK:HA	1:C:4706:UNK:C	2.32	0.55
1:A:993:HIS:C	1:A:996:TRP:HE3	2.06	0.55
1:B:429:GLY:N	1:B:505:GLU:HG2	2.21	0.55
1:B:3306:UNK:CA	1:B:3309:UNK:CB	2.84	0.55
1:C:2428:UNK:HA	1:C:2498:UNK:N	2.22	0.55
1:C:4103:UNK:O	1:C:4104:UNK:O	2.25	0.55
1:D:993:HIS:HD1	1:D:1035:ASN:ND2	2.05	0.55
1:D:996:TRP:C	1:D:996:TRP:CD1	2.80	0.55
1:D:1492:CYS:HG	1:D:1539:PHE:HE1	1.55	0.55
1:A:672:VAL:HB	1:A:673:PRO:HD2	1.87	0.55
1:A:1494:MET:HG2	1:A:1539:PHE:HB3	1.88	0.55
1:A:4675:UNK:O	1:A:4678:UNK:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:948:ASP:O	1:B:958:THR:OG1	2.20	0.55
1:B:1018:ASN:CA	1:B:1021:LEU:CD2	2.85	0.55
1:B:1439:VAL:HG21	1:B:1516:ILE:HG22	1.87	0.55
1:C:996:TRP:CD1	1:C:996:TRP:C	2.80	0.55
1:D:3306:UNK:CA	1:D:3309:UNK:CB	2.84	0.55
1:B:1439:VAL:HG23	1:B:1516:ILE:HG22	1.89	0.55
1:B:1452:TRP:CH2	1:B:1527:MET:HG2	2.40	0.55
1:B:4144:UNK:C	1:B:4145:UNK:CA	2.85	0.55
1:C:1454:THR:HB	1:C:1455:PRO:CD	2.29	0.55
1:C:3398:UNK:C	1:C:3400:UNK:C	2.85	0.55
1:D:1021:LEU:CD1	1:D:1021:LEU:N	2.70	0.55
1:A:321:GLU:CG	1:A:323:LEU:CD1	2.85	0.55
1:A:1465:ASP:HB3	1:A:1468:LYS:HG3	1.88	0.55
1:B:249:GLY:H	1:B:372:LEU:HD11	1.72	0.55
1:B:508:GLY:H	1:B:511:ALA:HB3	1.72	0.55
1:B:773:LEU:HD23	1:B:777:PHE:CZ	2.41	0.55
1:B:3400:UNK:CB	1:B:3403:UNK:CB	2.84	0.55
1:C:1018:ASN:CA	1:C:1021:LEU:CD2	2.85	0.55
1:C:1476:MET:HE3	1:C:1516:ILE:CD1	2.37	0.55
1:C:4144:UNK:C	1:C:4145:UNK:CA	2.85	0.55
1:C:4675:UNK:O	1:C:4678:UNK:N	2.40	0.55
1:D:1435:TYR:HB2	1:D:1518:CYS:O	2.07	0.55
1:A:508:GLY:H	1:A:511:ALA:HB3	1.72	0.54
1:A:1018:ASN:CA	1:A:1021:LEU:CD2	2.85	0.54
1:A:1557:THR:O	1:A:1558:HIS:C	2.43	0.54
1:B:672:VAL:HB	1:B:673:PRO:HD2	1.87	0.54
1:B:2195:UNK:CB	1:B:2198:UNK:CB	2.85	0.54
1:D:321:GLU:CB	1:D:323:LEU:CD1	2.85	0.54
1:D:1439:VAL:HG21	1:D:1516:ILE:HG22	1.87	0.54
1:D:2428:UNK:HA	1:D:2498:UNK:N	2.22	0.54
1:D:4703:UNK:HA	1:D:4706:UNK:C	2.32	0.54
1:A:76:ARG:NH1	1:B:3931:UNK:N	2.47	0.54
1:A:721:LEU:HD21	1:A:737:LEU:HA	1.88	0.54
1:A:953:THR:C	1:A:959:TYR:CE2	2.81	0.54
1:A:1450:VAL:HG13	1:A:1518:CYS:HG	1.72	0.54
1:A:1494:MET:CA	1:A:1540:PHE:CZ	2.90	0.54
1:B:321:GLU:CG	1:B:323:LEU:CD1	2.85	0.54
1:B:441:VAL:O	1:B:445:LEU:HD13	2.07	0.54
1:B:2428:UNK:HA	1:B:2498:UNK:N	2.22	0.54
1:C:441:VAL:O	1:C:445:LEU:HD13	2.07	0.54
1:C:461:HIS:HA	1:C:462:GLU:C	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1021:LEU:HD13	1:C:1021:LEU:H	1.72	0.54
1:C:4224:UNK:C	1:C:4232:UNK:C	2.85	0.54
1:A:317:ARG:HH12	1:A:322:LYS:HA	1.58	0.54
1:A:728:ARG:NH1	1:A:1134:LEU:N	2.56	0.54
1:B:914:PRO:HD2	1:B:917:GLU:OE1	2.07	0.54
1:B:1494:MET:HG2	1:B:1539:PHE:HB3	1.88	0.54
1:C:4144:UNK:C	1:C:4145:UNK:CB	2.85	0.54
1:D:256:ALA:HA	1:D:259:LEU:HD13	1.89	0.54
1:D:1001:VAL:O	1:D:1005:TRP:NE1	2.40	0.54
1:D:1018:ASN:CA	1:D:1021:LEU:CD2	2.85	0.54
1:D:1454:THR:HB	1:D:1455:PRO:CD	2.29	0.54
1:D:4675:UNK:O	1:D:4678:UNK:N	2.40	0.54
1:A:996:TRP:CD1	1:A:996:TRP:C	2.80	0.54
1:A:1435:TYR:HB2	1:A:1518:CYS:O	2.07	0.54
1:A:2195:UNK:CB	1:A:2198:UNK:CB	2.85	0.54
1:A:4144:UNK:C	1:A:4145:UNK:CB	2.85	0.54
1:B:75:VAL:CG1	1:B:76:ARG:H	2.14	0.54
1:B:993:HIS:HD1	1:B:1035:ASN:ND2	2.05	0.54
1:B:996:TRP:CD1	1:B:996:TRP:C	2.80	0.54
1:B:1001:VAL:O	1:B:1005:TRP:NE1	2.40	0.54
1:B:1435:TYR:HB2	1:B:1518:CYS:O	2.07	0.54
1:B:3398:UNK:C	1:B:3400:UNK:C	2.85	0.54
1:C:2195:UNK:CB	1:C:2198:UNK:CB	2.85	0.54
1:D:1022:VAL:CG2	1:D:1027:LEU:HD23	2.38	0.54
1:D:2195:UNK:CB	1:D:2198:UNK:CB	2.85	0.54
1:D:3398:UNK:C	1:D:3400:UNK:C	2.85	0.54
1:D:4117:UNK:CB	1:D:4121:UNK:CA	2.85	0.54
1:B:728:ARG:NH1	1:B:1134:LEU:N	2.56	0.54
1:B:1465:ASP:HB3	1:B:1468:LYS:HG3	1.88	0.54
1:C:657:THR:HG22	1:C:662:TRP:CZ2	2.28	0.54
1:C:1441:ALA:CB	1:C:1513:ASP:CA	2.73	0.54
1:A:225:GLY:O	1:A:227:MET:N	2.40	0.54
1:A:256:ALA:HA	1:A:259:LEU:HD13	1.89	0.54
1:A:1000:ARG:CG	1:A:1018:ASN:HD21	2.16	0.54
1:B:784:SER:O	1:B:785:ALA:HB3	2.06	0.54
1:B:1494:MET:CA	1:B:1540:PHE:CZ	2.90	0.54
1:C:4117:UNK:CB	1:C:4121:UNK:CA	2.85	0.54
1:D:321:GLU:CG	1:D:323:LEU:CD1	2.85	0.54
1:D:2428:UNK:CA	1:D:2498:UNK:H2	2.21	0.54
1:D:4224:UNK:C	1:D:4232:UNK:C	2.85	0.54
1:A:914:PRO:HD2	1:A:917:GLU:OE1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:993:HIS:HD1	1:A:1035:ASN:ND2	2.05	0.54
1:B:321:GLU:CB	1:B:323:LEU:HD13	2.36	0.54
1:B:953:THR:C	1:B:959:TYR:CE2	2.81	0.54
1:B:1492:CYS:HG	1:B:1539:PHE:HE1	1.53	0.54
1:B:4144:UNK:C	1:B:4145:UNK:CB	2.85	0.54
1:D:953:THR:C	1:D:959:TYR:CE2	2.81	0.54
1:D:1021:LEU:HD13	1:D:1021:LEU:H	1.72	0.54
1:A:80:GLU:OE1	1:B:3932:UNK:C	2.55	0.54
1:A:441:VAL:O	1:A:445:LEU:HD13	2.07	0.54
1:A:784:SER:O	1:A:785:ALA:HB3	2.06	0.54
1:A:3398:UNK:C	1:A:3400:UNK:C	2.85	0.54
1:A:4732:UNK:O	1:A:4735:UNK:N	2.41	0.54
1:B:1022:VAL:CG2	1:B:1027:LEU:HD23	2.38	0.54
1:B:2428:UNK:CA	1:B:2498:UNK:H2	2.21	0.54
1:B:4117:UNK:CB	1:B:4121:UNK:CA	2.85	0.54
1:B:4675:UNK:O	1:B:4678:UNK:N	2.40	0.54
1:D:441:VAL:O	1:D:445:LEU:HD13	2.07	0.54
1:D:1433:TYR:HD1	1:D:1569:GLN:HB2	1.73	0.54
1:D:1494:MET:CA	1:D:1540:PHE:CZ	2.90	0.54
1:A:1452:TRP:CG	1:A:1527:MET:HE2	2.42	0.54
1:A:4113:UNK:CA	1:A:4116:UNK:CB	2.76	0.54
1:B:4703:UNK:HA	1:B:4706:UNK:C	2.32	0.54
1:C:728:ARG:NH1	1:C:1134:LEU:N	2.56	0.54
1:C:993:HIS:HD1	1:C:1035:ASN:ND2	2.05	0.54
1:C:1003:GLN:OE1	1:C:1003:GLN:HA	2.05	0.54
1:C:2428:UNK:CA	1:C:2498:UNK:H2	2.21	0.54
1:D:1442:GLY:N	1:D:1514:LEU:HB2	2.18	0.54
1:D:1851:UNK:CA	1:D:1854:UNK:CB	2.85	0.54
1:D:4144:UNK:C	1:D:4145:UNK:CB	2.85	0.54
1:A:9:ASP:OD1	1:A:11:VAL:HB	2.08	0.54
1:A:249:GLY:H	1:A:372:LEU:HD11	1.72	0.54
1:A:995:VAL:C	1:A:998:ARG:HG3	2.29	0.54
1:A:1466:LEU:H	1:A:1553:PHE:HB2	1.73	0.54
1:B:652:ARG:HD2	1:B:778:PHE:HB2	1.90	0.54
1:C:914:PRO:HD2	1:C:917:GLU:OE1	2.08	0.54
1:C:1022:VAL:CG2	1:C:1027:LEU:HD23	2.38	0.54
1:C:4172:UNK:C	1:C:4174:UNK:N	2.71	0.54
1:D:728:ARG:NH1	1:D:1134:LEU:N	2.56	0.54
1:D:728:ARG:CD	1:D:1134:LEU:HD22	2.38	0.54
1:D:1496:TRP:HZ2	1:D:1543:GLU:HG3	1.73	0.54
1:A:229:GLU:OE2	1:A:374:LYS:HE2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1007:TYR:CE1	1:A:1015:ALA:CA	2.86	0.53
1:B:400:ALA:O	1:B:404:ILE:HG12	2.09	0.53
1:B:1478:ASP:C	1:B:1509:ILE:HG22	2.29	0.53
1:B:4224:UNK:C	1:B:4232:UNK:C	2.85	0.53
1:C:1017:ARG:N	1:C:1017:ARG:NE	2.53	0.53
1:C:1478:ASP:C	1:C:1509:ILE:HG22	2.29	0.53
1:D:4220:UNK:O	1:D:4224:UNK:N	2.42	0.53
1:A:998:ARG:NH2	1:A:998:ARG:O	2.41	0.53
1:A:1433:TYR:HD1	1:A:1569:GLN:HB2	1.73	0.53
1:A:1496:TRP:HZ2	1:A:1543:GLU:HG3	1.73	0.53
1:A:4224:UNK:C	1:A:4232:UNK:C	2.85	0.53
1:B:4220:UNK:O	1:B:4224:UNK:N	2.42	0.53
1:C:321:GLU:CG	1:C:323:LEU:CD1	2.85	0.53
1:C:341:TYR:HA	1:C:390:LEU:O	2.08	0.53
1:C:1494:MET:HG2	1:C:1539:PHE:HB3	1.88	0.53
1:C:1494:MET:CA	1:C:1540:PHE:CZ	2.90	0.53
1:C:1496:TRP:HZ2	1:C:1543:GLU:HG3	1.73	0.53
1:C:1851:UNK:CA	1:C:1854:UNK:CB	2.85	0.53
1:D:9:ASP:OD1	1:D:11:VAL:HB	2.09	0.53
1:D:321:GLU:CB	1:D:323:LEU:HD13	2.36	0.53
1:D:340:LYS:HB2	1:D:343:GLU:HB2	1.90	0.53
1:D:400:ALA:O	1:D:404:ILE:HG12	2.09	0.53
1:A:340:LYS:HB2	1:A:343:GLU:HB2	1.91	0.53
1:A:1018:ASN:C	1:A:1021:LEU:CD2	2.76	0.53
1:A:1478:ASP:C	1:A:1509:ILE:HG22	2.29	0.53
1:A:2428:UNK:CA	1:A:2498:UNK:H2	2.21	0.53
1:B:225:GLY:O	1:B:227:MET:N	2.40	0.53
1:B:340:LYS:HB2	1:B:343:GLU:HB2	1.90	0.53
1:B:4732:UNK:O	1:B:4735:UNK:N	2.41	0.53
1:C:131:LEU:O	1:C:178:ARG:NH1	2.42	0.53
1:C:225:GLY:O	1:C:227:MET:N	2.40	0.53
1:C:350:HIS:HB2	1:C:378:LEU:HD21	1.90	0.53
1:C:429:GLY:O	1:C:431:PRO:HD3	2.09	0.53
1:C:728:ARG:CD	1:C:1134:LEU:HD22	2.38	0.53
1:C:4732:UNK:O	1:C:4735:UNK:N	2.41	0.53
1:D:998:ARG:NH2	1:D:998:ARG:O	2.41	0.53
1:D:3205:UNK:CA	1:D:3208:UNK:CB	2.84	0.53
1:D:4732:UNK:O	1:D:4735:UNK:N	2.41	0.53
1:A:728:ARG:CD	1:A:1134:LEU:HD22	2.39	0.53
1:A:3932:UNK:C	1:D:80:GLU:OE1	2.56	0.53
1:B:256:ALA:HA	1:B:259:LEU:HD13	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:429:GLY:O	1:B:431:PRO:HD3	2.09	0.53
1:B:1496:TRP:HZ2	1:B:1543:GLU:HG3	1.73	0.53
1:C:249:GLY:H	1:C:372:LEU:HD11	1.72	0.53
1:C:321:GLU:CB	1:C:323:LEU:HD13	2.36	0.53
1:C:652:ARG:HD2	1:C:778:PHE:HB2	1.90	0.53
1:D:249:GLY:H	1:D:372:LEU:HD11	1.72	0.53
1:D:367:LEU:C	1:D:369:LEU:HD23	2.29	0.53
1:D:914:PRO:HD2	1:D:917:GLU:OE1	2.07	0.53
1:D:1466:LEU:H	1:D:1553:PHE:HB2	1.74	0.53
1:A:321:GLU:CB	1:A:323:LEU:CD1	2.85	0.53
1:A:400:ALA:O	1:A:404:ILE:HG12	2.09	0.53
1:A:429:GLY:O	1:A:431:PRO:HD3	2.09	0.53
1:A:4703:UNK:C	1:A:4707:UNK:CB	2.75	0.53
1:B:73:LEU:O	1:B:106:ALA:N	2.40	0.53
1:B:131:LEU:O	1:B:178:ARG:NH1	2.41	0.53
1:B:1433:TYR:HD1	1:B:1569:GLN:HB2	1.73	0.53
1:C:953:THR:C	1:C:959:TYR:CE2	2.81	0.53
1:D:1478:ASP:C	1:D:1509:ILE:HG22	2.29	0.53
1:A:455:PRO:O	1:A:456:SER:OG	2.27	0.53
1:A:4220:UNK:O	1:A:4224:UNK:N	2.41	0.53
1:B:229:GLU:OE2	1:B:374:LYS:HE2	2.08	0.53
1:B:321:GLU:CB	1:B:323:LEU:CD1	2.85	0.53
1:B:367:LEU:C	1:B:369:LEU:HD23	2.29	0.53
1:B:995:VAL:C	1:B:998:ARG:HG3	2.29	0.53
1:B:1000:ARG:CG	1:B:1018:ASN:HD21	2.16	0.53
1:B:1466:LEU:H	1:B:1553:PHE:HB2	1.73	0.53
1:C:9:ASP:OD1	1:C:11:VAL:HB	2.08	0.53
1:C:256:ALA:HA	1:C:259:LEU:HD13	1.89	0.53
1:C:657:THR:CB	1:C:662:TRP:CZ2	2.91	0.53
1:D:995:VAL:C	1:D:998:ARG:HG3	2.29	0.53
1:A:322:LYS:HB3	1:A:324:ASP:N	2.23	0.53
1:A:1022:VAL:CG2	1:A:1027:LEU:HD23	2.38	0.53
1:A:1439:VAL:HG21	1:A:1516:ILE:HG22	1.87	0.53
1:A:1478:ASP:N	1:A:1509:ILE:CG2	2.72	0.53
1:C:78:LEU:HD13	1:C:106:ALA:H	1.74	0.53
1:C:3673:UNK:C	1:C:3680:UNK:H2	2.22	0.53
1:C:3842:UNK:O	1:C:3845:UNK:N	2.42	0.53
1:C:4220:UNK:O	1:C:4224:UNK:N	2.42	0.53
1:D:78:LEU:HD13	1:D:106:ALA:H	1.74	0.53
1:D:266:ARG:NE	1:D:332:GLU:OE2	2.41	0.53
1:D:341:TYR:HA	1:D:390:LEU:O	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:429:GLY:O	1:D:431:PRO:HD3	2.09	0.53
1:D:1478:ASP:N	1:D:1509:ILE:CG2	2.72	0.53
1:A:131:LEU:O	1:A:178:ARG:NH1	2.42	0.53
1:A:1477:GLY:CA	1:A:1509:ILE:HG23	2.39	0.53
1:C:323:LEU:N	1:C:324:ASP:CA	2.72	0.53
1:C:340:LYS:HB2	1:C:343:GLU:HB2	1.90	0.53
1:C:400:ALA:O	1:C:404:ILE:HG12	2.09	0.53
1:C:728:ARG:HD2	1:C:1134:LEU:CB	2.28	0.53
1:C:1492:CYS:HG	1:C:1539:PHE:HE1	1.56	0.53
1:D:74:SER:HA	1:D:105:HIS:CD2	2.44	0.53
1:D:322:LYS:HB3	1:D:324:ASP:N	2.23	0.53
1:D:652:ARG:HD2	1:D:778:PHE:HB2	1.90	0.53
1:D:3673:UNK:C	1:D:3680:UNK:H2	2.22	0.53
1:B:80:GLU:OE1	1:C:3932:UNK:C	2.57	0.53
1:B:324:ASP:N	1:B:325:THR:CA	2.72	0.53
1:B:1478:ASP:N	1:B:1509:ILE:CG2	2.72	0.53
1:B:1851:UNK:CA	1:B:1854:UNK:CB	2.85	0.53
1:C:1007:TYR:CZ	1:C:1015:ALA:HB1	2.44	0.53
1:C:1442:GLY:N	1:C:1514:LEU:HB2	2.18	0.53
1:A:350:HIS:HB2	1:A:378:LEU:HD21	1.90	0.53
1:A:545:UNK:CA	1:A:548:UNK:CB	2.85	0.53
1:A:728:ARG:HD2	1:A:1134:LEU:CB	2.28	0.53
1:C:324:ASP:N	1:C:325:THR:CA	2.72	0.53
1:C:998:ARG:NH2	1:C:998:ARG:O	2.41	0.53
1:C:1478:ASP:N	1:C:1509:ILE:CG2	2.72	0.53
1:D:229:GLU:OE2	1:D:374:LYS:HE2	2.09	0.53
1:D:455:PRO:O	1:D:456:SER:OG	2.27	0.53
1:D:1003:GLN:CD	1:D:1003:GLN:N	2.62	0.53
1:D:1007:TYR:CE1	1:D:1015:ALA:CB	2.92	0.53
1:A:74:SER:HA	1:A:105:HIS:CD2	2.44	0.52
1:A:321:GLU:HB2	1:A:323:LEU:HD12	1.86	0.52
1:A:341:TYR:HA	1:A:390:LEU:O	2.08	0.52
1:A:1453:VAL:HA	1:A:1471:ALA:CB	2.39	0.52
1:A:1478:ASP:N	1:A:1509:ILE:HG21	2.24	0.52
1:A:4117:UNK:CB	1:A:4121:UNK:CA	2.85	0.52
1:B:998:ARG:NH2	1:B:998:ARG:O	2.41	0.52
1:C:229:GLU:OE2	1:C:374:LYS:HE2	2.08	0.52
1:C:1003:GLN:CD	1:C:1003:GLN:N	2.62	0.52
1:D:131:LEU:O	1:D:178:ARG:NH1	2.41	0.52
1:D:323:LEU:N	1:D:324:ASP:CA	2.72	0.52
1:D:465:GLN:OE1	1:D:465:GLN:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:728:ARG:NH2	1:D:1119:GLU:O	2.42	0.52
1:D:1018:ASN:C	1:D:1021:LEU:CD2	2.76	0.52
1:D:1022:VAL:CG2	1:D:1027:LEU:HD21	2.39	0.52
1:D:1452:TRP:HB2	1:D:1527:MET:HE1	1.90	0.52
1:D:1454:THR:CB	1:D:1455:PRO:HD2	2.30	0.52
1:A:4703:UNK:HA	1:A:4706:UNK:C	2.32	0.52
1:B:322:LYS:HB2	1:B:322:LYS:HZ2	1.74	0.52
1:C:322:LYS:HB3	1:C:324:ASP:N	2.23	0.52
1:C:322:LYS:N	1:C:323:LEU:CA	2.73	0.52
1:C:1007:TYR:CE1	1:C:1015:ALA:CB	2.92	0.52
1:C:1453:VAL:HA	1:C:1471:ALA:CB	2.40	0.52
1:A:1439:VAL:HG23	1:A:1516:ILE:HG22	1.88	0.52
1:A:1450:VAL:HG21	1:A:1516:ILE:HD13	1.91	0.52
1:B:350:HIS:HB2	1:B:378:LEU:HD21	1.90	0.52
1:B:455:PRO:O	1:B:456:SER:OG	2.27	0.52
1:B:1004:GLY:CA	1:B:1015:ALA:CB	2.60	0.52
1:B:3842:UNK:O	1:B:3845:UNK:N	2.42	0.52
1:C:321:GLU:CB	1:C:323:LEU:CD1	2.85	0.52
1:C:1018:ASN:C	1:C:1021:LEU:CD2	2.76	0.52
1:C:1433:TYR:HD1	1:C:1569:GLN:HB2	1.74	0.52
1:D:3842:UNK:O	1:D:3845:UNK:N	2.42	0.52
1:A:367:LEU:C	1:A:369:LEU:HD23	2.29	0.52
1:A:1007:TYR:CZ	1:A:1015:ALA:HB1	2.44	0.52
1:B:78:LEU:HD13	1:B:106:ALA:H	1.74	0.52
1:B:266:ARG:NE	1:B:332:GLU:OE2	2.41	0.52
1:B:323:LEU:N	1:B:324:ASP:CA	2.72	0.52
1:B:3673:UNK:C	1:B:3680:UNK:H2	2.22	0.52
1:C:1478:ASP:N	1:C:1509:ILE:HG21	2.25	0.52
1:D:1452:TRP:CZ2	1:D:1519:LEU:O	2.63	0.52
1:A:445:LEU:HD21	1:A:522:LEU:HD22	1.92	0.52
1:A:941:MET:HG2	1:A:1051:TYR:CZ	2.45	0.52
1:B:728:ARG:CD	1:B:1134:LEU:HD22	2.38	0.52
1:B:1018:ASN:C	1:B:1021:LEU:CD2	2.76	0.52
1:B:1477:GLY:CA	1:B:1509:ILE:HG23	2.39	0.52
1:C:74:SER:HA	1:C:105:HIS:CD2	2.44	0.52
1:C:80:GLU:OE1	1:D:3932:UNK:C	2.58	0.52
1:C:367:LEU:C	1:C:369:LEU:HD23	2.29	0.52
1:C:728:ARG:NH2	1:C:1119:GLU:O	2.42	0.52
1:D:429:GLY:H	1:D:505:GLU:HG2	1.75	0.52
1:A:78:LEU:HD13	1:A:106:ALA:H	1.74	0.52
1:A:652:ARG:HD2	1:A:778:PHE:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:728:ARG:NH2	1:A:1119:GLU:O	2.42	0.52
1:A:752:VAL:N	1:A:753:PRO:CA	2.73	0.52
1:A:1851:UNK:CA	1:A:1854:UNK:CB	2.85	0.52
1:A:3986:UNK:CA	1:A:3989:UNK:CB	2.85	0.52
1:B:9:ASP:OD1	1:B:11:VAL:HB	2.09	0.52
1:B:545:UNK:CA	1:B:548:UNK:CB	2.85	0.52
1:B:1478:ASP:N	1:B:1509:ILE:HG21	2.25	0.52
1:B:4796:UNK:O	1:B:4801:UNK:O	2.28	0.52
1:C:948:ASP:O	1:C:958:THR:OG1	2.20	0.52
1:C:1434:TYR:CE1	1:C:1570:LYS:CG	2.93	0.52
1:D:350:HIS:HB2	1:D:378:LEU:HD21	1.90	0.52
1:D:445:LEU:HD21	1:D:522:LEU:HD22	1.92	0.52
1:D:1453:VAL:HA	1:D:1471:ALA:CB	2.39	0.52
1:D:1471:ALA:HB1	1:D:1548:LEU:CD2	2.40	0.52
1:D:4796:UNK:O	1:D:4801:UNK:O	2.27	0.52
1:A:1001:VAL:O	1:A:1005:TRP:NE1	2.40	0.52
1:B:341:TYR:HA	1:B:390:LEU:O	2.09	0.52
1:B:1007:TYR:CE1	1:B:1015:ALA:CB	2.92	0.52
1:C:266:ARG:NE	1:C:332:GLU:OE2	2.41	0.52
1:C:368:ARG:NH2	1:C:371:VAL:O	2.43	0.52
1:C:995:VAL:C	1:C:998:ARG:HG3	2.29	0.52
1:D:753:PRO:CG	1:D:773:LEU:HD13	2.12	0.52
1:D:4232:UNK:CB	1:D:4234:UNK:N	2.73	0.52
1:A:1452:TRP:CZ2	1:A:1519:LEU:O	2.63	0.52
1:A:1477:GLY:HA3	1:A:1509:ILE:HG23	1.91	0.52
1:B:657:THR:CB	1:B:662:TRP:CZ2	2.91	0.52
1:B:1453:VAL:HA	1:B:1471:ALA:CB	2.39	0.52
1:B:2073:UNK:CB	1:B:2094:UNK:N	2.73	0.52
1:B:4232:UNK:CB	1:B:4234:UNK:N	2.73	0.52
1:C:429:GLY:H	1:C:505:GLU:HG2	1.75	0.52
1:C:455:PRO:O	1:C:456:SER:OG	2.27	0.52
1:C:2073:UNK:CB	1:C:2094:UNK:N	2.73	0.52
1:D:82:LEU:HD23	1:D:82:LEU:C	2.30	0.52
1:D:322:LYS:NZ	1:D:322:LYS:CB	2.73	0.52
1:D:752:VAL:HB	1:D:754:SER:HB2	1.91	0.52
1:D:1007:TYR:CZ	1:D:1015:ALA:HB1	2.44	0.52
1:D:2073:UNK:CB	1:D:2094:UNK:N	2.73	0.52
1:D:2428:UNK:CB	1:D:2498:UNK:CA	2.87	0.52
1:A:465:GLN:OE1	1:A:465:GLN:N	2.42	0.52
1:A:1022:VAL:CG2	1:A:1027:LEU:HD21	2.39	0.52
1:B:728:ARG:NH2	1:B:1119:GLU:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1007:TYR:CZ	1:B:1015:ALA:HB1	2.44	0.52
1:B:1471:ALA:HB1	1:B:1548:LEU:CD2	2.40	0.52
1:B:1477:GLY:HA3	1:B:1509:ILE:HG23	1.91	0.52
1:C:322:LYS:NZ	1:C:322:LYS:CB	2.73	0.52
1:C:3673:UNK:C	1:C:3680:UNK:N	2.72	0.52
1:C:4232:UNK:CB	1:C:4234:UNK:N	2.73	0.52
1:A:3842:UNK:O	1:A:3845:UNK:N	2.42	0.52
1:B:1022:VAL:CG2	1:B:1027:LEU:HD21	2.39	0.52
1:C:1450:VAL:HG21	1:C:1516:ILE:HD13	1.91	0.52
1:C:2428:UNK:CB	1:C:2498:UNK:CA	2.87	0.52
1:C:4796:UNK:O	1:C:4801:UNK:O	2.27	0.52
1:D:752:VAL:N	1:D:753:PRO:CA	2.73	0.52
1:D:941:MET:HG2	1:D:1051:TYR:CZ	2.45	0.52
1:A:275:ARG:CG	1:A:278:GLN:HB2	2.40	0.51
1:A:429:GLY:H	1:A:505:GLU:HG2	1.75	0.51
1:A:2822:THR:OG1	1:A:2938:THR:OG1	2.28	0.51
1:A:3673:UNK:C	1:A:3680:UNK:N	2.72	0.51
1:A:4232:UNK:CB	1:A:4234:UNK:N	2.73	0.51
1:A:4796:UNK:O	1:A:4801:UNK:O	2.28	0.51
1:B:322:LYS:NZ	1:B:322:LYS:CB	2.73	0.51
1:B:1452:TRP:CG	1:B:1527:MET:HE2	2.45	0.51
1:B:1452:TRP:CZ2	1:B:1519:LEU:O	2.63	0.51
1:C:1439:VAL:HG23	1:C:1516:ILE:HG22	1.88	0.51
1:C:1452:TRP:CZ2	1:C:1519:LEU:O	2.63	0.51
1:C:1471:ALA:HB1	1:C:1548:LEU:CD2	2.40	0.51
1:D:225:GLY:O	1:D:227:MET:N	2.40	0.51
1:D:275:ARG:CG	1:D:278:GLN:HB2	2.40	0.51
1:D:1452:TRP:C	1:D:1548:LEU:HD23	2.30	0.51
1:D:1477:GLY:CA	1:D:1509:ILE:HG23	2.39	0.51
1:A:69:LEU:HD13	1:A:101:LEU:HD11	1.92	0.51
1:A:1452:TRP:HZ2	1:A:1519:LEU:C	2.14	0.51
1:B:82:LEU:HD23	1:B:82:LEU:C	2.30	0.51
1:B:322:LYS:HB3	1:B:324:ASP:N	2.23	0.51
1:B:729:PRO:O	1:B:730:VAL:CG2	2.58	0.51
1:B:941:MET:HG2	1:B:1051:TYR:CZ	2.45	0.51
1:B:1452:TRP:C	1:B:1548:LEU:HD23	2.30	0.51
1:B:4172:UNK:C	1:B:4174:UNK:N	2.71	0.51
1:C:1452:TRP:HZ2	1:C:1519:LEU:C	2.14	0.51
1:D:1452:TRP:HZ2	1:D:1519:LEU:C	2.14	0.51
1:A:324:ASP:N	1:A:325:THR:CA	2.72	0.51
1:A:1471:ALA:HB1	1:A:1548:LEU:CD2	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:299:LEU:HB2	1:B:378:LEU:HD12	1.93	0.51
1:B:1452:TRP:HZ2	1:B:1519:LEU:C	2.14	0.51
1:A:323:LEU:N	1:A:324:ASP:CA	2.72	0.51
1:A:1003:GLN:CD	1:A:1003:GLN:N	2.62	0.51
1:A:2073:UNK:CB	1:A:2094:UNK:N	2.73	0.51
1:B:275:ARG:CG	1:B:278:GLN:HB2	2.41	0.51
1:B:445:LEU:HD21	1:B:522:LEU:HD22	1.92	0.51
1:B:752:VAL:HB	1:B:754:SER:HB2	1.91	0.51
1:B:752:VAL:N	1:B:753:PRO:CA	2.73	0.51
1:B:1478:ASP:O	1:B:1509:ILE:HG21	2.11	0.51
1:C:941:MET:HG2	1:C:1051:TYR:CZ	2.45	0.51
1:C:4124:UNK:O	1:C:4125:UNK:C	2.57	0.51
1:D:1478:ASP:O	1:D:1509:ILE:HG21	2.11	0.51
1:D:4124:UNK:O	1:D:4125:UNK:C	2.57	0.51
1:A:266:ARG:NE	1:A:332:GLU:OE2	2.42	0.51
1:A:1492:CYS:HG	1:A:1539:PHE:HE1	1.59	0.51
1:B:322:LYS:N	1:B:323:LEU:CA	2.73	0.51
1:B:429:GLY:H	1:B:505:GLU:HG2	1.75	0.51
1:C:591:UNK:O	1:C:592:UNK:C	2.59	0.51
1:D:368:ARG:NH2	1:D:371:VAL:O	2.43	0.51
1:D:1477:GLY:HA3	1:D:1509:ILE:HG23	1.91	0.51
1:C:321:GLU:HG2	1:C:323:LEU:CD1	2.41	0.51
1:A:266:ARG:O	1:A:270:SER:OG	2.26	0.51
1:A:368:ARG:NH2	1:A:371:VAL:O	2.43	0.51
1:A:436:LEU:O	1:A:438:ILE:N	2.44	0.51
1:A:729:PRO:O	1:A:730:VAL:CG2	2.58	0.51
1:A:4172:UNK:C	1:A:4174:UNK:N	2.71	0.51
1:B:1434:TYR:CE1	1:B:1570:LYS:CG	2.93	0.51
1:C:69:LEU:HD13	1:C:101:LEU:HD11	1.92	0.51
1:C:82:LEU:HD23	1:C:82:LEU:C	2.30	0.51
1:C:299:LEU:HB2	1:C:378:LEU:HD12	1.93	0.51
1:C:729:PRO:O	1:C:730:VAL:CG2	2.58	0.51
1:C:1022:VAL:CG2	1:C:1027:LEU:HD21	2.39	0.51
1:C:1477:GLY:CA	1:C:1509:ILE:HG23	2.39	0.51
1:C:1478:ASP:O	1:C:1509:ILE:HG21	2.11	0.51
1:C:2822:THR:OG1	1:C:2938:THR:OG1	2.28	0.51
1:D:321:GLU:HG2	1:D:323:LEU:CD1	2.41	0.51
1:D:1450:VAL:HG21	1:D:1516:ILE:HD13	1.91	0.51
1:D:1478:ASP:N	1:D:1509:ILE:HG21	2.25	0.51
1:D:4063:UNK:O	1:D:4066:UNK:CB	2.59	0.51
1:A:322:LYS:NZ	1:A:322:LYS:CB	2.73	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1452:TRP:C	1:A:1548:LEU:HD23	2.30	0.51
1:B:321:GLU:HG2	1:B:323:LEU:CD1	2.41	0.51
1:B:3673:UNK:C	1:B:3680:UNK:N	2.72	0.51
1:B:4062:UNK:O	1:B:4066:UNK:N	2.44	0.51
1:C:445:LEU:HD21	1:C:522:LEU:HD22	1.92	0.51
1:C:752:VAL:HB	1:C:754:SER:HB2	1.91	0.51
1:C:752:VAL:N	1:C:753:PRO:CA	2.73	0.51
1:C:4063:UNK:O	1:C:4066:UNK:CB	2.59	0.51
1:A:1021:LEU:CD1	1:A:1021:LEU:N	2.70	0.51
1:B:4703:UNK:C	1:B:4707:UNK:CB	2.75	0.51
1:C:73:LEU:O	1:C:106:ALA:N	2.40	0.51
1:C:436:LEU:O	1:C:438:ILE:N	2.44	0.51
1:C:465:GLN:OE1	1:C:465:GLN:N	2.41	0.51
1:D:299:LEU:HB2	1:D:378:LEU:HD12	1.93	0.51
1:D:324:ASP:N	1:D:325:THR:CA	2.72	0.51
1:A:82:LEU:HD23	1:A:82:LEU:C	2.30	0.51
1:A:752:VAL:HB	1:A:754:SER:HB2	1.92	0.51
1:A:1007:TYR:CE1	1:A:1015:ALA:CB	2.92	0.51
1:A:1101:ARG:NH1	1:A:1114:GLU:HB3	2.26	0.51
1:A:3673:UNK:C	1:A:3680:UNK:H2	2.22	0.51
1:B:74:SER:HA	1:B:105:HIS:CD2	2.44	0.51
1:B:591:UNK:O	1:B:592:UNK:C	2.59	0.51
1:B:1450:VAL:HG21	1:B:1516:ILE:HD13	1.91	0.51
1:B:4063:UNK:O	1:B:4066:UNK:CB	2.59	0.51
1:C:1444:GLU:CD	1:C:1478:ASP:HA	2.31	0.51
1:D:729:PRO:O	1:D:730:VAL:CG2	2.58	0.51
1:D:2822:THR:OG1	1:D:2938:THR:OG1	2.29	0.51
1:A:1434:TYR:CE1	1:A:1570:LYS:CG	2.93	0.50
1:A:1442:GLY:N	1:A:1514:LEU:HB2	2.18	0.50
1:A:4063:UNK:O	1:A:4066:UNK:CB	2.59	0.50
1:B:69:LEU:HD13	1:B:101:LEU:HD11	1.92	0.50
1:B:1007:TYR:CE1	1:B:1015:ALA:CA	2.86	0.50
1:C:993:HIS:CD2	1:C:1024:TYR:HB2	2.46	0.50
1:C:1101:ARG:NH1	1:C:1114:GLU:HB3	2.26	0.50
1:C:1477:GLY:HA3	1:C:1509:ILE:HG23	1.91	0.50
1:D:76:ARG:HA	1:D:79:GLN:NE2	2.27	0.50
1:A:321:GLU:HG2	1:A:323:LEU:CD1	2.41	0.50
1:A:686:TRP:HD1	1:A:777:PHE:CD2	2.30	0.50
1:A:995:VAL:O	1:A:998:ARG:HD3	2.12	0.50
1:B:953:THR:HB	1:B:959:TYR:CE2	2.47	0.50
1:B:1003:GLN:CD	1:B:1003:GLN:N	2.62	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:3268:UNK:N	1:B:3271:UNK:CB	2.67	0.50
1:C:1422:ASP:HB3	1:C:1549:PHE:CZ	2.46	0.50
1:C:1452:TRP:C	1:C:1548:LEU:HD23	2.30	0.50
1:C:4062:UNK:O	1:C:4066:UNK:N	2.44	0.50
1:D:1000:ARG:HD2	1:D:1000:ARG:C	2.29	0.50
1:D:1101:ARG:NH1	1:D:1114:GLU:HB3	2.27	0.50
1:A:73:LEU:O	1:A:106:ALA:N	2.40	0.50
1:A:4062:UNK:O	1:A:4066:UNK:N	2.44	0.50
1:B:686:TRP:HD1	1:B:777:PHE:CD2	2.30	0.50
1:B:4124:UNK:O	1:B:4125:UNK:C	2.57	0.50
1:C:275:ARG:CG	1:C:278:GLN:HB2	2.41	0.50
1:C:1437:VAL:CG2	1:C:1518:CYS:CB	2.84	0.50
1:D:953:THR:HB	1:D:959:TYR:CE2	2.47	0.50
1:D:1422:ASP:HB3	1:D:1549:PHE:CZ	2.46	0.50
1:D:3983:UNK:HA	1:D:3986:UNK:CB	2.42	0.50
1:D:4062:UNK:O	1:D:4066:UNK:N	2.44	0.50
1:B:76:ARG:NH1	1:C:3931:UNK:N	2.46	0.50
1:B:4972:UNK:O	1:B:4975:UNK:N	2.45	0.50
1:C:1007:TYR:CE1	1:C:1015:ALA:CA	2.86	0.50
1:C:4117:UNK:CB	1:C:4121:UNK:N	2.75	0.50
1:D:69:LEU:HD13	1:D:101:LEU:HD11	1.92	0.50
1:A:322:LYS:N	1:A:323:LEU:CA	2.73	0.50
1:A:4117:UNK:CB	1:A:4121:UNK:N	2.75	0.50
1:B:1101:ARG:NH1	1:B:1114:GLU:HB3	2.27	0.50
1:B:1136:SER:O	1:B:1137:GLU:HB2	2.12	0.50
1:C:329:ARG:HH11	1:C:329:ARG:CG	2.04	0.50
1:C:753:PRO:CG	1:C:773:LEU:HD13	2.12	0.50
1:D:436:LEU:O	1:D:438:ILE:N	2.44	0.50
1:D:1437:VAL:HB	1:D:1516:ILE:O	2.12	0.50
1:A:1422:ASP:HB3	1:A:1549:PHE:CZ	2.46	0.50
1:A:3268:UNK:N	1:A:3271:UNK:CB	2.67	0.50
1:B:368:ARG:NH2	1:B:371:VAL:O	2.43	0.50
1:B:1444:GLU:CD	1:B:1478:ASP:HA	2.32	0.50
1:B:3986:UNK:CA	1:B:3989:UNK:CB	2.86	0.50
1:C:4911:UNK:O	1:C:4915:UNK:CB	2.60	0.50
1:D:322:LYS:HB2	1:D:322:LYS:HZ2	1.75	0.50
1:D:995:VAL:O	1:D:998:ARG:HD3	2.11	0.50
1:A:2778:GLY:HA3	1:A:2787:THR:HB	1.93	0.50
1:B:995:VAL:O	1:B:999:ASP:OD2	2.30	0.50
1:B:1004:GLY:O	1:B:1008:SER:O	2.30	0.50
1:B:2822:THR:OG1	1:B:2938:THR:OG1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:855:PRO:HA	1:C:994:ASN:CB	2.20	0.50
1:C:1452:TRP:CG	1:C:1527:MET:HE2	2.47	0.50
1:C:3983:UNK:HA	1:C:3986:UNK:CB	2.42	0.50
1:D:1444:GLU:CD	1:D:1478:ASP:HA	2.32	0.50
1:D:4703:UNK:C	1:D:4707:UNK:CB	2.75	0.50
1:A:76:ARG:HA	1:A:79:GLN:NE2	2.27	0.50
1:A:953:THR:HB	1:A:959:TYR:CE2	2.47	0.50
1:A:1437:VAL:CG2	1:A:1518:CYS:CB	2.84	0.50
1:B:1422:ASP:HB3	1:B:1549:PHE:CZ	2.46	0.50
1:B:4887:UNK:N	1:C:4585:UNK:CB	2.75	0.50
1:C:727:ALA:O	1:C:728:ARG:HB2	2.12	0.50
1:C:953:THR:HB	1:C:959:TYR:CE2	2.47	0.50
1:C:1437:VAL:HB	1:C:1516:ILE:O	2.12	0.50
1:D:4117:UNK:CB	1:D:4121:UNK:N	2.75	0.50
1:D:4972:UNK:O	1:D:4975:UNK:N	2.45	0.50
1:A:299:LEU:HB2	1:A:378:LEU:HD12	1.93	0.50
1:A:4684:UNK:O	1:A:4688:UNK:N	2.45	0.50
1:B:28:VAL:HG22	1:B:29:LEU:HD22	1.94	0.50
1:B:4117:UNK:CB	1:B:4121:UNK:N	2.75	0.50
1:C:222:LEU:HD22	1:C:390:LEU:HD21	1.89	0.50
1:C:995:VAL:O	1:C:999:ASP:OD2	2.30	0.50
1:C:1021:LEU:CD1	1:C:1021:LEU:N	2.70	0.50
1:C:1452:TRP:O	1:C:1548:LEU:HD23	2.12	0.50
1:C:1494:MET:CB	1:C:1540:PHE:CE1	2.94	0.50
1:C:1495:VAL:N	1:C:1540:PHE:CZ	2.80	0.50
1:D:686:TRP:HD1	1:D:777:PHE:CD2	2.30	0.50
1:D:956:PRO:HD2	1:D:959:TYR:N	2.27	0.50
1:D:1016:ARG:O	1:D:1017:ARG:NH2	2.45	0.50
1:D:3986:UNK:CA	1:D:3989:UNK:CB	2.86	0.50
1:D:4172:UNK:C	1:D:4174:UNK:N	2.71	0.50
1:A:1437:VAL:HB	1:A:1516:ILE:O	2.12	0.49
1:A:4972:UNK:O	1:A:4975:UNK:N	2.45	0.49
1:B:1437:VAL:HB	1:B:1516:ILE:O	2.12	0.49
1:B:2778:GLY:HA3	1:B:2787:THR:HB	1.93	0.49
1:C:956:PRO:HD2	1:C:959:TYR:N	2.27	0.49
1:C:1000:ARG:CG	1:C:1018:ASN:HD21	2.16	0.49
1:C:1466:LEU:H	1:C:1553:PHE:HB2	1.74	0.49
1:C:2778:GLY:HA3	1:C:2787:THR:HB	1.94	0.49
1:D:4684:UNK:O	1:D:4688:UNK:N	2.45	0.49
1:A:591:UNK:O	1:A:592:UNK:C	2.59	0.49
1:A:993:HIS:CD2	1:A:1024:TYR:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1136:SER:O	1:A:1137:GLU:HB2	2.12	0.49
1:A:1444:GLU:CD	1:A:1478:ASP:HA	2.32	0.49
1:A:2428:UNK:CB	1:A:2498:UNK:CA	2.87	0.49
1:B:465:GLN:OE1	1:B:465:GLN:N	2.41	0.49
1:B:993:HIS:CD2	1:B:1024:TYR:HB2	2.47	0.49
1:B:1436:SER:O	1:B:1565:GLU:O	2.31	0.49
1:C:76:ARG:HA	1:C:79:GLN:NE2	2.27	0.49
1:C:4684:UNK:O	1:C:4688:UNK:N	2.45	0.49
1:D:322:LYS:N	1:D:323:LEU:CA	2.73	0.49
1:D:545:UNK:HA	1:D:548:UNK:N	2.28	0.49
1:D:753:PRO:HD2	1:D:770:ALA:HA	1.95	0.49
1:D:1007:TYR:CE1	1:D:1015:ALA:CA	2.86	0.49
1:D:1136:SER:O	1:D:1137:GLU:HB2	2.12	0.49
1:D:4911:UNK:O	1:D:4915:UNK:CB	2.60	0.49
1:A:689:THR:HG22	1:A:778:PHE:CE2	2.47	0.49
1:A:1046:LEU:HD13	1:A:1053:ILE:HG13	1.94	0.49
1:B:73:LEU:O	1:B:78:LEU:CD1	2.61	0.49
1:B:206:CYS:HB3	1:B:271:GLY:CA	2.43	0.49
1:B:1495:VAL:N	1:B:1540:PHE:CZ	2.80	0.49
1:B:4684:UNK:O	1:B:4688:UNK:N	2.45	0.49
1:B:4911:UNK:O	1:B:4915:UNK:CB	2.60	0.49
1:C:84:ASN:ND2	1:C:84:ASN:N	2.60	0.49
1:C:4972:UNK:O	1:C:4975:UNK:N	2.45	0.49
1:D:206:CYS:HB3	1:D:271:GLY:CA	2.43	0.49
1:D:319:SER:HA	1:D:347:PHE:CD1	2.48	0.49
1:D:1027:LEU:HD22	1:D:1031:THR:HG21	1.95	0.49
1:D:1046:LEU:HD13	1:D:1053:ILE:HG13	1.94	0.49
1:A:73:LEU:O	1:A:78:LEU:CD1	2.61	0.49
1:A:1027:LEU:HD22	1:A:1031:THR:HG21	1.95	0.49
1:A:1478:ASP:O	1:A:1509:ILE:HG21	2.11	0.49
1:A:4911:UNK:O	1:A:4915:UNK:CB	2.60	0.49
1:B:319:SER:HA	1:B:347:PHE:CD1	2.48	0.49
1:B:436:LEU:O	1:B:438:ILE:N	2.44	0.49
1:B:727:ALA:O	1:B:728:ARG:HB2	2.12	0.49
1:B:1016:ARG:O	1:B:1017:ARG:NH2	2.45	0.49
1:C:1436:SER:O	1:C:1565:GLU:O	2.31	0.49
1:D:1452:TRP:O	1:D:1548:LEU:HD23	2.12	0.49
1:D:3673:UNK:C	1:D:3680:UNK:N	2.72	0.49
1:A:319:SER:HA	1:A:347:PHE:CD1	2.48	0.49
1:A:995:VAL:O	1:A:999:ASP:OD2	2.30	0.49
1:B:2428:UNK:CB	1:B:2498:UNK:CA	2.87	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1016:ARG:O	1:C:1017:ARG:NH2	2.45	0.49
1:D:79:GLN:CG	1:D:80:GLU:N	2.75	0.49
1:D:1436:SER:O	1:D:1565:GLU:O	2.31	0.49
1:A:753:PRO:HD2	1:A:770:ALA:HA	1.95	0.49
1:A:1436:SER:O	1:A:1565:GLU:O	2.31	0.49
1:A:1452:TRP:O	1:A:1548:LEU:HD23	2.12	0.49
1:B:995:VAL:O	1:B:998:ARG:HD3	2.12	0.49
1:B:1007:TYR:O	1:B:1008:SER:OG	2.30	0.49
1:C:206:CYS:HB3	1:C:271:GLY:CA	2.43	0.49
1:C:319:SER:HA	1:C:347:PHE:CD1	2.48	0.49
1:C:686:TRP:HD1	1:C:777:PHE:CD2	2.30	0.49
1:C:1136:SER:O	1:C:1137:GLU:HB2	2.12	0.49
1:A:659:TYR:C	1:A:750:LEU:HD21	2.33	0.49
1:A:1016:ARG:O	1:A:1017:ARG:NH2	2.45	0.49
1:A:1444:GLU:OE2	1:A:1478:ASP:HA	2.13	0.49
1:A:4124:UNK:O	1:A:4125:UNK:C	2.57	0.49
1:B:545:UNK:HA	1:B:548:UNK:N	2.27	0.49
1:B:1437:VAL:CG2	1:B:1518:CYS:CB	2.84	0.49
1:B:1452:TRP:O	1:B:1548:LEU:HD23	2.12	0.49
1:C:659:TYR:C	1:C:750:LEU:HD21	2.33	0.49
1:C:4887:UNK:N	1:D:4585:UNK:CB	2.74	0.49
1:D:1452:TRP:CB	1:D:1527:MET:HE1	2.43	0.49
1:B:689:THR:HG22	1:B:778:PHE:CE2	2.47	0.49
1:C:995:VAL:O	1:C:998:ARG:HD3	2.12	0.49
1:C:1462:MET:O	1:C:1553:PHE:CZ	2.66	0.49
1:D:73:LEU:O	1:D:78:LEU:CD1	2.61	0.49
1:D:993:HIS:CD2	1:D:1024:TYR:HB2	2.47	0.49
1:A:84:ASN:ND2	1:A:84:ASN:N	2.60	0.49
1:A:1004:GLY:O	1:A:1008:SER:O	2.30	0.49
1:A:1431:THR:HG23	1:A:1571:ASN:HA	1.95	0.49
1:A:1495:VAL:N	1:A:1540:PHE:CZ	2.80	0.49
1:A:3983:UNK:HA	1:A:3986:UNK:CB	2.42	0.49
1:A:4887:UNK:N	1:B:4585:UNK:CB	2.74	0.49
1:B:76:ARG:HA	1:B:79:GLN:NE2	2.27	0.49
1:B:955:LEU:N	1:B:959:TYR:CD2	2.81	0.49
1:C:329:ARG:NE	1:C:329:ARG:HA	2.28	0.49
1:D:689:THR:HG22	1:D:778:PHE:CE2	2.48	0.49
1:D:995:VAL:O	1:D:999:ASP:OD2	2.30	0.49
1:D:1431:THR:HG23	1:D:1571:ASN:HA	1.95	0.49
1:A:249:GLY:N	1:A:372:LEU:HD11	2.28	0.49
1:A:4585:UNK:CB	1:D:4887:UNK:N	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:249:GLY:N	1:B:372:LEU:HD11	2.28	0.49
1:B:659:TYR:C	1:B:750:LEU:HD21	2.33	0.49
1:B:1442:GLY:N	1:B:1514:LEU:HB2	2.18	0.49
1:D:753:PRO:CB	1:D:773:LEU:CD1	2.88	0.49
1:D:1434:TYR:CE1	1:D:1570:LYS:CG	2.93	0.49
1:A:753:PRO:CG	1:A:773:LEU:HD13	2.12	0.48
1:A:858:THR:HB	1:A:930:LYS:HB3	1.95	0.48
1:A:1021:LEU:C	1:A:1022:VAL:HG22	2.32	0.48
1:A:3317:UNK:CB	1:A:3323:UNK:CA	2.91	0.48
1:A:4645:UNK:CA	1:A:4648:UNK:CB	2.86	0.48
1:B:1027:LEU:HD22	1:B:1031:THR:HG21	1.95	0.48
1:B:1431:THR:HG23	1:B:1571:ASN:HA	1.95	0.48
1:B:3983:UNK:HA	1:B:3986:UNK:CB	2.42	0.48
1:C:28:VAL:HG22	1:C:29:LEU:HD22	1.94	0.48
1:C:266:ARG:O	1:C:270:SER:OG	2.26	0.48
1:C:753:PRO:HD2	1:C:770:ALA:HA	1.95	0.48
1:C:1444:GLU:OE2	1:C:1478:ASP:HA	2.13	0.48
1:D:127:MET:HB3	1:D:130:LYS:HG3	1.95	0.48
1:D:659:TYR:C	1:D:750:LEU:HD21	2.33	0.48
1:A:127:MET:HB3	1:A:130:LYS:HG3	1.95	0.48
1:A:545:UNK:HA	1:A:548:UNK:N	2.27	0.48
1:B:349:GLN:HB2	1:B:356:TRP:CZ3	2.48	0.48
1:C:73:LEU:O	1:C:78:LEU:CD1	2.60	0.48
1:C:328:LYS:NZ	1:C:329:ARG:O	2.46	0.48
1:C:545:UNK:HA	1:C:548:UNK:N	2.27	0.48
1:C:858:THR:HB	1:C:930:LYS:HB3	1.95	0.48
1:C:1027:LEU:HD22	1:C:1031:THR:HG21	1.95	0.48
1:C:1431:THR:HG23	1:C:1571:ASN:HA	1.95	0.48
1:D:328:LYS:NZ	1:D:329:ARG:O	2.46	0.48
1:D:727:ALA:O	1:D:728:ARG:HB2	2.12	0.48
1:D:1004:GLY:O	1:D:1008:SER:O	2.30	0.48
1:D:1429:ASN:HB2	1:D:1547:LYS:CB	2.43	0.48
1:B:329:ARG:NE	1:B:329:ARG:HA	2.28	0.48
1:C:881:LEU:HD13	1:C:968:ALA:HB2	1.96	0.48
1:C:955:LEU:N	1:C:959:TYR:CD2	2.81	0.48
1:C:1000:ARG:HD2	1:C:1000:ARG:C	2.29	0.48
1:D:73:LEU:O	1:D:106:ALA:N	2.40	0.48
1:D:1429:ASN:CB	1:D:1547:LYS:HB2	2.42	0.48
1:D:4645:UNK:CA	1:D:4648:UNK:CB	2.86	0.48
1:A:206:CYS:HB3	1:A:271:GLY:CA	2.43	0.48
1:A:955:LEU:N	1:A:959:TYR:CD2	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:424:LYS:HZ1	1:B:506:TYR:N	2.11	0.48
1:B:752:VAL:HB	1:B:754:SER:CA	2.43	0.48
1:B:1431:THR:CG2	1:B:1571:ASN:HA	2.43	0.48
1:B:1434:TYR:CD1	1:B:1570:LYS:HG3	2.48	0.48
1:C:349:GLN:HB2	1:C:356:TRP:CZ3	2.48	0.48
1:C:689:THR:HG22	1:C:778:PHE:CE2	2.47	0.48
1:C:1016:ARG:CA	1:C:1017:ARG:NE	2.77	0.48
1:C:1046:LEU:HD13	1:C:1053:ILE:HG13	1.94	0.48
1:D:1494:MET:CB	1:D:1540:PHE:CE1	2.94	0.48
1:D:2778:GLY:HA3	1:D:2787:THR:HB	1.93	0.48
1:A:978:THR:HB	1:A:979:PRO:HD2	1.95	0.48
1:A:1558:HIS:CD2	1:A:1559:GLN:HB2	2.49	0.48
1:B:1558:HIS:CD2	1:B:1559:GLN:HB2	2.49	0.48
1:D:421:PHE:HE2	1:D:436:LEU:HD21	1.79	0.48
1:D:1016:ARG:CA	1:D:1017:ARG:NE	2.77	0.48
1:A:349:GLN:HB2	1:A:356:TRP:CZ3	2.48	0.48
1:A:977:LEU:HB3	1:A:981:GLN:HB2	1.96	0.48
1:A:993:HIS:CE1	1:A:1020:ARG:CA	2.91	0.48
1:A:4561:UNK:C	1:A:4564:UNK:N	2.77	0.48
1:A:4855:UNK:O	1:A:4859:UNK:CA	2.61	0.48
1:B:328:LYS:HB2	1:B:328:LYS:NZ	2.29	0.48
1:B:462:GLU:O	1:B:465:GLN:HB3	2.14	0.48
1:B:977:LEU:HB3	1:B:981:GLN:HB2	1.96	0.48
1:B:978:THR:HB	1:B:979:PRO:HD2	1.96	0.48
1:B:1046:LEU:HD13	1:B:1053:ILE:HG13	1.94	0.48
1:C:249:GLY:N	1:C:372:LEU:HD11	2.28	0.48
1:C:978:THR:HB	1:C:979:PRO:HD2	1.95	0.48
1:C:1004:GLY:O	1:C:1008:SER:O	2.30	0.48
1:C:1558:HIS:CD2	1:C:1559:GLN:HB2	2.49	0.48
1:D:1444:GLU:OE2	1:D:1478:ASP:HA	2.13	0.48
1:A:462:GLU:O	1:A:465:GLN:HB3	2.14	0.48
1:A:752:VAL:HB	1:A:754:SER:CA	2.43	0.48
1:A:1429:ASN:HB2	1:A:1547:LYS:CB	2.43	0.48
1:B:753:PRO:HD2	1:B:770:ALA:HA	1.95	0.48
1:B:1438:ARG:CB	1:B:1515:VAL:HG13	2.44	0.48
1:C:127:MET:HB3	1:C:130:LYS:HG3	1.96	0.48
1:C:1431:THR:CG2	1:C:1571:ASN:HA	2.43	0.48
1:D:28:VAL:HG22	1:D:29:LEU:HD22	1.94	0.48
1:D:75:VAL:CG1	1:D:76:ARG:N	2.73	0.48
1:D:977:LEU:HB3	1:D:981:GLN:HB2	1.96	0.48
1:D:1431:THR:CG2	1:D:1571:ASN:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:28:VAL:HG22	1:A:29:LEU:HD22	1.94	0.48
1:B:127:MET:HB3	1:B:130:LYS:HG3	1.95	0.48
1:B:1444:GLU:OE2	1:B:1478:ASP:HA	2.13	0.48
1:D:249:GLY:N	1:D:372:LEU:HD11	2.28	0.48
1:D:329:ARG:HA	1:D:329:ARG:NE	2.28	0.48
1:D:1434:TYR:CD1	1:D:1570:LYS:HG3	2.48	0.48
1:A:994:ASN:C	1:A:994:ASN:OD1	2.51	0.48
1:A:1016:ARG:CA	1:A:1017:ARG:NE	2.77	0.48
1:B:328:LYS:NZ	1:B:329:ARG:O	2.46	0.48
1:C:328:LYS:NZ	1:C:328:LYS:HB2	2.29	0.48
1:C:753:PRO:CG	1:C:773:LEU:HD12	2.07	0.48
1:D:328:LYS:NZ	1:D:328:LYS:HB2	2.29	0.48
1:D:1558:HIS:CD2	1:D:1559:GLN:HB2	2.49	0.48
1:D:2768:PHE:O	1:D:2772:GLN:HG2	2.14	0.48
1:A:995:VAL:O	1:A:998:ARG:CD	2.62	0.48
1:A:1454:THR:CB	1:A:1455:PRO:HD2	2.30	0.48
1:B:995:VAL:O	1:B:998:ARG:CD	2.62	0.48
1:B:4561:UNK:C	1:B:4564:UNK:N	2.77	0.48
1:C:462:GLU:O	1:C:465:GLN:HB3	2.14	0.48
1:C:1001:VAL:O	1:C:1005:TRP:NE1	2.40	0.48
1:D:1495:VAL:N	1:D:1540:PHE:CZ	2.80	0.48
1:A:79:GLN:CG	1:A:80:GLU:N	2.75	0.47
1:B:881:LEU:HD13	1:B:968:ALA:HB2	1.95	0.47
1:B:994:ASN:C	1:B:994:ASN:OD1	2.51	0.47
1:B:2768:PHE:O	1:B:2772:GLN:HG2	2.14	0.47
1:C:752:VAL:HB	1:C:754:SER:CA	2.43	0.47
1:C:977:LEU:HB3	1:C:981:GLN:HB2	1.96	0.47
1:C:994:ASN:C	1:C:994:ASN:OD1	2.51	0.47
1:C:1438:ARG:CB	1:C:1515:VAL:HG13	2.44	0.47
1:C:1452:TRP:HB2	1:C:1527:MET:HE1	1.95	0.47
1:D:545:UNK:CA	1:D:548:UNK:CB	2.85	0.47
1:D:855:PRO:HA	1:D:994:ASN:CB	2.20	0.47
1:D:870:ILE:HG12	1:D:1051:TYR:CZ	2.49	0.47
1:D:994:ASN:C	1:D:994:ASN:OD1	2.51	0.47
1:D:1438:ARG:CB	1:D:1515:VAL:HG13	2.44	0.47
1:D:1462:MET:O	1:D:1553:PHE:CZ	2.66	0.47
1:D:1496:TRP:CZ2	1:D:1543:GLU:HG3	2.49	0.47
1:D:4561:UNK:C	1:D:4564:UNK:N	2.77	0.47
1:A:328:LYS:NZ	1:A:329:ARG:O	2.46	0.47
1:A:982:THR:O	1:A:986:ASP:N	2.47	0.47
1:A:1474:VAL:CG2	1:A:1539:PHE:CB	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2768:PHE:O	1:A:2772:GLN:HG2	2.14	0.47
1:B:79:GLN:CG	1:B:80:GLU:N	2.75	0.47
1:B:266:ARG:O	1:B:270:SER:OG	2.26	0.47
1:B:652:ARG:HG2	1:B:780:VAL:HB	1.96	0.47
1:C:1429:ASN:HB2	1:C:1547:LYS:CB	2.43	0.47
1:C:3317:UNK:CB	1:C:3323:UNK:CA	2.91	0.47
1:C:4792:UNK:O	1:C:4795:UNK:N	2.47	0.47
1:D:424:LYS:HZ1	1:D:506:TYR:N	2.10	0.47
1:D:752:VAL:HB	1:D:754:SER:CA	2.43	0.47
1:D:1474:VAL:CG2	1:D:1539:PHE:CB	2.92	0.47
1:A:1431:THR:CG2	1:A:1571:ASN:HA	2.43	0.47
1:A:4222:UNK:O	1:A:4232:UNK:O	2.33	0.47
1:B:680:THR:HG21	1:B:785:ALA:HB2	1.96	0.47
1:B:1081:TYR:O	1:B:1082:THR:C	2.53	0.47
1:B:1496:TRP:CZ2	1:B:1543:GLU:HG3	2.49	0.47
1:C:107:ILE:HG22	1:C:148:TRP:O	2.15	0.47
1:C:982:THR:O	1:C:986:ASP:N	2.47	0.47
1:D:349:GLN:HB2	1:D:356:TRP:CZ3	2.48	0.47
1:D:2296:UNK:C	1:D:2352:UNK:CB	2.93	0.47
1:D:3317:UNK:CB	1:D:3323:UNK:CA	2.91	0.47
1:A:328:LYS:NZ	1:A:328:LYS:HB2	2.29	0.47
1:A:329:ARG:HA	1:A:329:ARG:NE	2.28	0.47
1:A:1812:UNK:O	1:A:1816:UNK:N	2.48	0.47
1:A:2296:UNK:C	1:A:2352:UNK:CB	2.93	0.47
1:A:4792:UNK:O	1:A:4795:UNK:N	2.47	0.47
1:B:1812:UNK:O	1:B:1816:UNK:N	2.48	0.47
1:B:2428:UNK:CA	1:B:2498:UNK:N	2.78	0.47
1:C:474:ARG:O	1:C:478:PHE:HD1	1.97	0.47
1:C:1189:LEU:HD12	1:C:1190:PRO:HD2	1.96	0.47
1:C:1429:ASN:CB	1:C:1547:LYS:HB2	2.42	0.47
1:C:4561:UNK:C	1:C:4564:UNK:N	2.77	0.47
1:D:107:ILE:HG22	1:D:148:TRP:O	2.15	0.47
1:D:462:GLU:O	1:D:465:GLN:HB3	2.14	0.47
1:D:1812:UNK:O	1:D:1816:UNK:N	2.47	0.47
1:A:1462:MET:O	1:A:1553:PHE:CZ	2.66	0.47
1:B:858:THR:HB	1:B:930:LYS:HB3	1.95	0.47
1:B:1001:VAL:C	1:B:1005:TRP:CD1	2.88	0.47
1:B:1016:ARG:CA	1:B:1017:ARG:NE	2.77	0.47
1:B:4792:UNK:O	1:B:4795:UNK:N	2.47	0.47
1:C:1001:VAL:C	1:C:1005:TRP:CD1	2.88	0.47
1:C:2768:PHE:O	1:C:2772:GLN:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:206:CYS:HB3	1:D:271:GLY:C	2.35	0.47
1:D:474:ARG:O	1:D:478:PHE:HD1	1.98	0.47
1:A:222:LEU:HD22	1:A:390:LEU:HD21	1.89	0.47
1:A:419:ASP:OD2	1:A:493:ARG:NH1	2.48	0.47
1:A:727:ALA:O	1:A:728:ARG:HB2	2.12	0.47
1:A:870:ILE:HG12	1:A:1051:TYR:CZ	2.49	0.47
1:A:881:LEU:HD13	1:A:968:ALA:HB2	1.95	0.47
1:A:1813:UNK:O	1:A:1817:UNK:N	2.42	0.47
1:A:2428:UNK:CA	1:A:2498:UNK:N	2.78	0.47
1:B:1189:LEU:HD12	1:B:1190:PRO:HD2	1.96	0.47
1:C:206:CYS:HA	1:C:269:TRP:CE3	2.50	0.47
1:C:1812:UNK:O	1:C:1816:UNK:N	2.47	0.47
1:C:2428:UNK:CA	1:C:2498:UNK:N	2.78	0.47
1:D:995:VAL:O	1:D:998:ARG:CD	2.62	0.47
1:D:1017:ARG:N	1:D:1017:ARG:NE	2.53	0.47
1:D:1081:TYR:O	1:D:1082:THR:C	2.53	0.47
1:A:81:MET:SD	1:A:81:MET:C	2.93	0.47
1:A:170:ILE:HD11	1:A:197:GLN:HB3	1.97	0.47
1:A:368:ARG:NH1	1:A:368:ARG:CG	2.71	0.47
1:A:418:LEU:HA	1:A:421:PHE:CZ	2.50	0.47
1:A:421:PHE:HE2	1:A:436:LEU:HD21	1.79	0.47
1:A:1429:ASN:CB	1:A:1547:LYS:HB2	2.42	0.47
1:A:1496:TRP:CZ2	1:A:1543:GLU:HG3	2.49	0.47
1:A:3205:UNK:CA	1:A:3208:UNK:CB	2.84	0.47
1:A:4905:UNK:N	1:A:4906:UNK:CA	2.78	0.47
1:B:89:GLY:N	1:B:90:VAL:HA	2.30	0.47
1:B:107:ILE:HG22	1:B:148:TRP:O	2.14	0.47
1:B:170:ILE:HD11	1:B:197:GLN:HB3	1.97	0.47
1:B:1462:MET:O	1:B:1553:PHE:CZ	2.66	0.47
1:B:1474:VAL:CG2	1:B:1539:PHE:CB	2.92	0.47
1:B:1494:MET:CB	1:B:1540:PHE:CE1	2.94	0.47
1:C:421:PHE:HE2	1:C:436:LEU:HD21	1.79	0.47
1:C:870:ILE:HG12	1:C:1051:TYR:CZ	2.49	0.47
1:C:995:VAL:O	1:C:998:ARG:CD	2.62	0.47
1:C:1022:VAL:C	1:C:1023:PRO:O	2.50	0.47
1:C:1465:ASP:H	1:C:1468:LYS:HD2	1.80	0.47
1:C:3986:UNK:CA	1:C:3989:UNK:CB	2.86	0.47
1:C:4222:UNK:O	1:C:4232:UNK:O	2.33	0.47
1:D:207:SER:N	1:D:269:TRP:HE3	2.07	0.47
1:D:419:ASP:OD2	1:D:493:ARG:NH1	2.48	0.47
1:D:652:ARG:HG2	1:D:780:VAL:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:881:LEU:HD13	1:D:968:ALA:HB2	1.96	0.47
1:D:982:THR:O	1:D:986:ASP:N	2.47	0.47
1:D:1007:TYR:O	1:D:1008:SER:OG	2.30	0.47
1:D:1465:ASP:H	1:D:1468:LYS:HD2	1.80	0.47
1:D:4222:UNK:O	1:D:4232:UNK:O	2.33	0.47
1:D:4792:UNK:O	1:D:4795:UNK:N	2.47	0.47
1:A:1478:ASP:C	1:A:1509:ILE:CG2	2.83	0.47
1:B:424:LYS:HG2	1:B:506:TYR:CE1	2.50	0.47
1:B:1021:LEU:CD1	1:B:1021:LEU:N	2.70	0.47
1:C:206:CYS:HB3	1:C:271:GLY:C	2.35	0.47
1:C:419:ASP:OD2	1:C:493:ARG:NH1	2.48	0.47
1:C:727:ALA:HB1	1:C:1119:GLU:CD	2.35	0.47
1:D:266:ARG:O	1:D:270:SER:OG	2.26	0.47
1:D:418:LEU:HA	1:D:421:PHE:CZ	2.50	0.47
1:D:948:ASP:CB	1:D:959:TYR:HE1	2.26	0.47
1:D:1478:ASP:C	1:D:1509:ILE:CG2	2.83	0.47
1:D:4855:UNK:O	1:D:4859:UNK:CA	2.61	0.47
1:A:474:ARG:O	1:A:478:PHE:HD1	1.98	0.47
1:A:652:ARG:HG2	1:A:780:VAL:HB	1.96	0.47
1:A:948:ASP:CB	1:A:959:TYR:HE1	2.26	0.47
1:A:1109:LEU:HD13	1:A:1120:LEU:HB2	1.97	0.47
1:B:421:PHE:HE2	1:B:436:LEU:HD21	1.79	0.47
1:B:1001:VAL:HG13	1:B:1002:ALA:N	2.30	0.47
1:B:1452:TRP:HB2	1:B:1527:MET:HE1	1.96	0.47
1:D:591:UNK:O	1:D:592:UNK:C	2.59	0.47
1:D:858:THR:HB	1:D:930:LYS:HB3	1.95	0.47
1:A:206:CYS:HB3	1:A:271:GLY:C	2.35	0.47
1:A:1441:ALA:HB1	1:A:1513:ASP:HA	1.97	0.47
1:B:206:CYS:HA	1:B:269:TRP:CE3	2.50	0.47
1:B:727:ALA:HB1	1:B:1119:GLU:CD	2.35	0.47
1:B:870:ILE:HG12	1:B:1051:TYR:CZ	2.49	0.47
1:B:1465:ASP:H	1:B:1468:LYS:HD2	1.80	0.47
1:C:81:MET:C	1:C:81:MET:SD	2.93	0.47
1:C:424:LYS:HG2	1:C:506:TYR:CE1	2.50	0.47
1:C:545:UNK:CA	1:C:548:UNK:CB	2.85	0.47
1:C:652:ARG:HG2	1:C:780:VAL:HB	1.96	0.47
1:C:1001:VAL:HG13	1:C:1002:ALA:N	2.30	0.47
1:C:1437:VAL:CB	1:C:1516:ILE:O	2.63	0.47
1:C:1454:THR:CB	1:C:1455:PRO:HD2	2.31	0.47
1:C:1474:VAL:CG2	1:C:1539:PHE:CB	2.92	0.47
1:C:1496:TRP:CZ2	1:C:1543:GLU:HG3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4905:UNK:N	1:C:4906:UNK:CA	2.78	0.47
1:D:1001:VAL:C	1:D:1005:TRP:CD1	2.88	0.47
1:A:1001:VAL:C	1:A:1005:TRP:CD1	2.88	0.46
1:A:1016:ARG:C	1:A:1017:ARG:CD	2.80	0.46
1:A:1081:TYR:O	1:A:1082:THR:C	2.53	0.46
1:A:1434:TYR:CD1	1:A:1570:LYS:HG3	2.48	0.46
1:B:81:MET:SD	1:B:81:MET:C	2.93	0.46
1:B:275:ARG:HG2	1:B:278:GLN:HB2	1.98	0.46
1:B:418:LEU:HA	1:B:421:PHE:CZ	2.50	0.46
1:B:456:SER:OG	1:B:460:GLN:OE1	2.31	0.46
1:B:728:ARG:CD	1:B:1133:HIS:CD2	2.96	0.46
1:B:1441:ALA:HB1	1:B:1513:ASP:HA	1.97	0.46
1:B:4905:UNK:N	1:B:4906:UNK:CA	2.78	0.46
1:C:1081:TYR:O	1:C:1082:THR:C	2.53	0.46
1:C:1452:TRP:HZ2	1:C:1519:LEU:O	1.98	0.46
1:C:4788:UNK:HA	1:C:4791:UNK:CB	2.45	0.46
1:D:81:MET:SD	1:D:81:MET:C	2.93	0.46
1:D:978:THR:HB	1:D:979:PRO:HD2	1.96	0.46
1:D:1555:LEU:HB3	1:D:1556:PRO:CD	2.44	0.46
1:A:206:CYS:HA	1:A:269:TRP:CE3	2.50	0.46
1:A:424:LYS:HG2	1:A:506:TYR:CE1	2.50	0.46
1:A:988:LEU:HD23	1:A:1039:LEU:HB2	1.97	0.46
1:A:1438:ARG:CB	1:A:1515:VAL:HG13	2.44	0.46
1:A:1494:MET:CB	1:A:1540:PHE:CE1	2.94	0.46
1:B:728:ARG:HA	1:B:729:PRO:HA	1.63	0.46
1:B:1453:VAL:HG22	1:B:1549:PHE:O	2.16	0.46
1:B:4645:UNK:CA	1:B:4648:UNK:CB	2.86	0.46
1:B:4788:UNK:HA	1:B:4791:UNK:CB	2.45	0.46
1:B:4855:UNK:O	1:B:4859:UNK:CA	2.62	0.46
1:C:275:ARG:HG2	1:C:278:GLN:HB2	1.97	0.46
1:C:291:LEU:HD11	1:C:299:LEU:HD11	1.97	0.46
1:C:688:LEU:HA	1:C:776:LEU:O	2.15	0.46
1:C:1453:VAL:HG22	1:C:1549:PHE:O	2.16	0.46
1:D:170:ILE:HD11	1:D:197:GLN:HB3	1.97	0.46
1:D:426:ARG:HG2	1:D:502:HIS:HB2	1.97	0.46
1:D:855:PRO:CG	1:D:994:ASN:O	2.57	0.46
1:D:1189:LEU:HD12	1:D:1190:PRO:HD2	1.96	0.46
1:D:4788:UNK:HA	1:D:4791:UNK:CB	2.45	0.46
1:A:89:GLY:N	1:A:90:VAL:HA	2.30	0.46
1:A:275:ARG:HG2	1:A:278:GLN:HB2	1.98	0.46
1:A:680:THR:HG21	1:A:785:ALA:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1465:ASP:H	1:A:1468:LYS:HD2	1.80	0.46
1:B:688:LEU:HA	1:B:776:LEU:O	2.15	0.46
1:B:948:ASP:CB	1:B:959:TYR:HE1	2.26	0.46
1:B:2821:TRP:CD1	1:B:2939:ARG:HB3	2.51	0.46
1:C:988:LEU:HD23	1:C:1039:LEU:HB2	1.97	0.46
1:C:4895:UNK:O	1:C:4898:UNK:CB	2.64	0.46
1:D:424:LYS:HG2	1:D:506:TYR:CE1	2.50	0.46
1:D:680:THR:HG21	1:D:785:ALA:HB2	1.96	0.46
1:A:2073:UNK:C	1:A:2094:UNK:CB	2.94	0.46
1:A:2821:TRP:CD1	1:A:2939:ARG:HB3	2.51	0.46
1:B:887:ILE:HA	1:B:891:TRP:O	2.16	0.46
1:B:956:PRO:HD2	1:B:959:TYR:N	2.27	0.46
1:B:1109:LEU:HD13	1:B:1120:LEU:HB2	1.97	0.46
1:B:2073:UNK:C	1:B:2094:UNK:CB	2.94	0.46
1:C:89:GLY:N	1:C:90:VAL:HA	2.30	0.46
1:D:222:LEU:HD22	1:D:390:LEU:HD21	1.89	0.46
1:D:275:ARG:HG2	1:D:278:GLN:HB2	1.97	0.46
1:D:291:LEU:HD11	1:D:299:LEU:HD11	1.97	0.46
1:D:955:LEU:N	1:D:959:TYR:CD2	2.81	0.46
1:D:1452:TRP:HZ2	1:D:1519:LEU:O	1.99	0.46
1:D:1453:VAL:HG22	1:D:1549:PHE:O	2.16	0.46
1:D:1495:VAL:O	1:D:1495:VAL:HG12	2.16	0.46
1:D:3306:UNK:HA	1:D:3309:UNK:CA	2.46	0.46
1:A:107:ILE:HG22	1:A:148:TRP:O	2.15	0.46
1:A:427:GLY:O	1:A:505:GLU:HG3	2.16	0.46
1:A:728:ARG:HA	1:A:729:PRO:HA	1.63	0.46
1:A:1189:LEU:HD12	1:A:1190:PRO:HD2	1.96	0.46
1:B:222:LEU:HD22	1:B:390:LEU:HD21	1.89	0.46
1:B:329:ARG:NH1	1:B:329:ARG:CG	2.71	0.46
1:B:982:THR:O	1:B:986:ASP:N	2.47	0.46
1:B:4222:UNK:O	1:B:4232:UNK:O	2.33	0.46
1:B:4895:UNK:O	1:B:4898:UNK:CB	2.64	0.46
1:C:887:ILE:HA	1:C:891:TRP:O	2.16	0.46
1:C:1555:LEU:HB3	1:C:1556:PRO:CD	2.44	0.46
1:D:89:GLY:N	1:D:90:VAL:HA	2.30	0.46
1:A:456:SER:OG	1:A:460:GLN:OE1	2.31	0.46
1:A:1452:TRP:HB2	1:A:1527:MET:HE1	1.98	0.46
1:A:4561:UNK:C	1:A:4565:UNK:CB	2.94	0.46
1:B:74:SER:HB2	1:B:75:VAL:H	1.42	0.46
1:B:419:ASP:OD2	1:B:493:ARG:NH1	2.48	0.46
1:B:469:ARG:HA	1:B:472:ARG:HH11	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:753:PRO:CB	1:B:773:LEU:CD1	2.88	0.46
1:B:855:PRO:HG3	1:B:994:ASN:CB	2.46	0.46
1:B:855:PRO:CG	1:B:994:ASN:O	2.57	0.46
1:B:1437:VAL:CB	1:B:1516:ILE:O	2.63	0.46
1:B:1478:ASP:C	1:B:1509:ILE:CG2	2.83	0.46
1:B:2296:UNK:C	1:B:2352:UNK:CB	2.93	0.46
1:C:170:ILE:HD11	1:C:197:GLN:HB3	1.97	0.46
1:C:1813:UNK:O	1:C:1817:UNK:N	2.42	0.46
1:C:3304:UNK:C	1:C:3306:UNK:N	2.77	0.46
1:C:3306:UNK:HA	1:C:3309:UNK:CA	2.46	0.46
1:D:879:HIS:HE1	1:D:906:CYS:SG	2.39	0.46
1:D:1437:VAL:CB	1:D:1516:ILE:O	2.63	0.46
1:D:1558:HIS:HD2	1:D:1559:GLN:HB2	1.81	0.46
1:D:2428:UNK:CA	1:D:2498:UNK:N	2.78	0.46
1:A:688:LEU:HA	1:A:776:LEU:O	2.15	0.46
1:A:879:HIS:HE1	1:A:906:CYS:SG	2.39	0.46
1:A:906:CYS:SG	1:A:907:LEU:N	2.89	0.46
1:A:1429:ASN:HB2	1:A:1547:LYS:CD	2.45	0.46
1:A:1453:VAL:HG22	1:A:1549:PHE:O	2.16	0.46
1:A:4788:UNK:HA	1:A:4791:UNK:CB	2.45	0.46
1:A:4895:UNK:O	1:A:4898:UNK:CB	2.64	0.46
1:B:319:SER:HA	1:B:347:PHE:CE1	2.51	0.46
1:B:474:ARG:O	1:B:478:PHE:HD1	1.97	0.46
1:B:1429:ASN:HB2	1:B:1547:LYS:CB	2.43	0.46
1:C:426:ARG:HG2	1:C:502:HIS:HB2	1.97	0.46
1:C:680:THR:HG21	1:C:785:ALA:HB2	1.96	0.46
1:C:1007:TYR:O	1:C:1008:SER:OG	2.30	0.46
1:C:1109:LEU:HD13	1:C:1120:LEU:HB2	1.97	0.46
1:C:2296:UNK:C	1:C:2352:UNK:CB	2.93	0.46
1:D:206:CYS:HA	1:D:269:TRP:CE3	2.50	0.46
1:D:951:LYS:HG2	1:D:958:THR:O	2.16	0.46
1:D:1453:VAL:HA	1:D:1471:ALA:HB1	1.98	0.46
1:A:657:THR:CB	1:A:662:TRP:CZ2	2.91	0.46
1:A:728:ARG:CD	1:A:1133:HIS:CD2	2.96	0.46
1:A:855:PRO:HG3	1:A:994:ASN:CB	2.46	0.46
1:A:887:ILE:HA	1:A:891:TRP:O	2.16	0.46
1:A:1452:TRP:HZ2	1:A:1519:LEU:O	1.99	0.46
1:A:1835:UNK:O	1:A:1838:UNK:N	2.49	0.46
1:C:319:SER:HA	1:C:347:PHE:CE1	2.51	0.46
1:C:728:ARG:CD	1:C:1133:HIS:CD2	2.96	0.46
1:C:753:PRO:CB	1:C:773:LEU:CD1	2.88	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1434:TYR:CD1	1:C:1570:LYS:HG3	2.48	0.46
1:C:1441:ALA:HB1	1:C:1513:ASP:HA	1.97	0.46
1:D:855:PRO:HG3	1:D:994:ASN:CB	2.46	0.46
1:D:906:CYS:SG	1:D:907:LEU:N	2.89	0.46
1:D:1434:TYR:HD1	1:D:1570:LYS:HB2	1.77	0.46
1:D:1441:ALA:HB1	1:D:1513:ASP:HA	1.97	0.46
1:D:1452:TRP:HB2	1:D:1548:LEU:HD22	1.98	0.46
1:A:727:ALA:HB1	1:A:1119:GLU:CD	2.35	0.46
1:A:1002:ALA:N	1:A:1005:TRP:NE1	2.64	0.46
1:B:206:CYS:HB3	1:B:271:GLY:C	2.35	0.46
1:B:1000:ARG:HD3	1:B:1016:ARG:HD2	1.98	0.46
1:B:1021:LEU:C	1:B:1022:VAL:HG22	2.32	0.46
1:B:5006:UNK:O	1:B:5009:UNK:N	2.49	0.46
1:C:418:LEU:HA	1:C:421:PHE:CZ	2.50	0.46
1:C:948:ASP:CB	1:C:959:TYR:HE1	2.26	0.46
1:D:2073:UNK:C	1:D:2094:UNK:CB	2.94	0.46
1:D:3306:UNK:CB	1:D:3309:UNK:CB	2.94	0.46
1:D:4905:UNK:N	1:D:4906:UNK:CA	2.78	0.46
1:A:291:LEU:HD11	1:A:299:LEU:HD11	1.97	0.46
1:A:1000:ARG:HD2	1:A:1000:ARG:C	2.29	0.46
1:A:1001:VAL:CG1	1:A:1005:TRP:CE2	2.92	0.46
1:A:3306:UNK:CB	1:A:3309:UNK:CB	2.94	0.46
1:B:291:LEU:HD11	1:B:299:LEU:HD11	1.97	0.46
1:B:894:GLY:O	1:B:905:PRO:HA	2.16	0.46
1:B:1452:TRP:HB2	1:B:1548:LEU:HD22	1.98	0.46
1:C:855:PRO:HG3	1:C:994:ASN:CB	2.46	0.46
1:C:1002:ALA:N	1:C:1005:TRP:NE1	2.64	0.46
1:C:1016:ARG:HA	1:C:1017:ARG:NE	2.31	0.46
1:C:1453:VAL:HA	1:C:1471:ALA:HB1	1.98	0.46
1:C:2821:TRP:CD1	1:C:2939:ARG:HB3	2.51	0.46
1:C:4855:UNK:O	1:C:4859:UNK:CA	2.62	0.46
1:D:427:GLY:O	1:D:505:GLU:HG3	2.16	0.46
1:D:887:ILE:HA	1:D:891:TRP:O	2.16	0.46
1:D:991:ASN:O	1:D:994:ASN:N	2.49	0.46
1:D:1437:VAL:HG23	1:D:1518:CYS:H	1.81	0.46
1:A:426:ARG:HG2	1:A:502:HIS:HB2	1.97	0.45
1:A:1452:TRP:HB2	1:A:1548:LEU:HD22	1.98	0.45
1:B:988:LEU:HD23	1:B:1039:LEU:HB2	1.97	0.45
1:B:3306:UNK:HA	1:B:3309:UNK:CA	2.46	0.45
1:B:4818:UNK:N	1:B:4821:UNK:CB	2.73	0.45
1:C:5006:UNK:O	1:C:5009:UNK:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:74:SER:HB2	1:D:75:VAL:H	1.43	0.45
1:D:1000:ARG:HD3	1:D:1016:ARG:HD2	1.99	0.45
1:D:4561:UNK:C	1:D:4565:UNK:CB	2.94	0.45
1:D:4895:UNK:O	1:D:4898:UNK:CB	2.64	0.45
1:A:951:LYS:HG2	1:A:958:THR:O	2.16	0.45
1:A:1016:ARG:HA	1:A:1017:ARG:NE	2.31	0.45
1:A:1437:VAL:CB	1:A:1516:ILE:O	2.63	0.45
1:A:1558:HIS:HD2	1:A:1559:GLN:H	1.60	0.45
1:B:1555:LEU:HB3	1:B:1556:PRO:CD	2.44	0.45
1:B:3445:UNK:C	1:B:3447:UNK:H	2.30	0.45
1:C:894:GLY:O	1:C:905:PRO:HA	2.17	0.45
1:C:1437:VAL:HG23	1:C:1518:CYS:H	1.81	0.45
1:C:1452:TRP:HB2	1:C:1548:LEU:HD22	1.98	0.45
1:C:2073:UNK:C	1:C:2094:UNK:CB	2.94	0.45
1:D:988:LEU:HD23	1:D:1039:LEU:HB2	1.97	0.45
1:D:1016:ARG:HA	1:D:1017:ARG:NE	2.31	0.45
1:A:1000:ARG:HD3	1:A:1016:ARG:HD2	1.99	0.45
1:A:3304:UNK:C	1:A:3306:UNK:N	2.77	0.45
1:B:427:GLY:O	1:B:505:GLU:HG3	2.16	0.45
1:B:1429:ASN:CB	1:B:1547:LYS:HB2	2.43	0.45
1:C:1021:LEU:C	1:C:1022:VAL:HG22	2.32	0.45
1:C:3205:UNK:CA	1:C:3208:UNK:CB	2.84	0.45
1:C:4561:UNK:C	1:C:4565:UNK:CB	2.94	0.45
1:D:319:SER:HA	1:D:347:PHE:CE1	2.51	0.45
1:D:426:ARG:CZ	1:D:796:ARG:NH2	2.71	0.45
1:D:688:LEU:HA	1:D:776:LEU:O	2.15	0.45
1:D:1001:VAL:HG13	1:D:1005:TRP:CE2	2.30	0.45
1:D:1437:VAL:CG2	1:D:1518:CYS:CB	2.84	0.45
1:A:469:ARG:HA	1:A:472:ARG:HH11	1.80	0.45
1:A:1558:HIS:HD2	1:A:1559:GLN:HB2	1.81	0.45
1:B:426:ARG:HG2	1:B:502:HIS:HB2	1.97	0.45
1:B:1002:ALA:N	1:B:1005:TRP:NE1	2.64	0.45
1:B:1016:ARG:HA	1:B:1017:ARG:NE	2.31	0.45
1:B:4561:UNK:C	1:B:4565:UNK:CB	2.94	0.45
1:B:4885:UNK:O	1:C:4585:UNK:O	2.14	0.45
1:C:469:ARG:HA	1:C:472:ARG:HH11	1.79	0.45
1:C:1429:ASN:HB2	1:C:1547:LYS:CD	2.45	0.45
1:C:3445:UNK:C	1:C:3447:UNK:H	2.30	0.45
1:C:4645:UNK:CA	1:C:4648:UNK:CB	2.86	0.45
1:D:151:HIS:HB2	1:D:170:ILE:CG2	2.46	0.45
1:D:727:ALA:HB1	1:D:1119:GLU:CD	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1835:UNK:O	1:D:1838:UNK:N	2.49	0.45
1:A:993:HIS:O	1:A:996:TRP:CD2	2.69	0.45
1:A:5006:UNK:O	1:A:5009:UNK:N	2.49	0.45
1:C:870:ILE:HD13	1:C:870:ILE:HA	1.78	0.45
1:C:951:LYS:HG2	1:C:958:THR:O	2.16	0.45
1:C:1000:ARG:HD3	1:C:1016:ARG:HD2	1.99	0.45
1:C:1007:TYR:HE1	1:C:1015:ALA:CB	2.29	0.45
1:C:1558:HIS:HD2	1:C:1559:GLN:HB2	1.81	0.45
1:C:1835:UNK:O	1:C:1838:UNK:N	2.49	0.45
1:D:469:ARG:HA	1:D:472:ARG:HH11	1.79	0.45
1:D:728:ARG:CD	1:D:1133:HIS:CD2	2.96	0.45
1:A:1001:VAL:HG13	1:A:1002:ALA:N	2.30	0.45
1:A:3306:UNK:HA	1:A:3309:UNK:CA	2.46	0.45
1:B:906:CYS:SG	1:B:907:LEU:N	2.89	0.45
1:B:1429:ASN:HB2	1:B:1547:LYS:CD	2.45	0.45
1:B:1453:VAL:HA	1:B:1471:ALA:HB1	1.98	0.45
1:B:1462:MET:O	1:B:1555:LEU:HD22	2.17	0.45
1:C:1478:ASP:C	1:C:1509:ILE:CG2	2.83	0.45
1:C:3268:UNK:N	1:C:3271:UNK:CB	2.67	0.45
1:C:3306:UNK:CB	1:C:3309:UNK:CB	2.94	0.45
1:D:1109:LEU:HD13	1:D:1120:LEU:HB2	1.97	0.45
1:D:2821:TRP:CD1	1:D:2939:ARG:HB3	2.51	0.45
1:A:82:LEU:C	1:A:82:LEU:CD2	2.85	0.45
1:A:324:ASP:OD1	1:A:324:ASP:N	2.50	0.45
1:A:458:GLU:N	1:A:460:GLN:HB2	2.32	0.45
1:A:675:LEU:HD12	1:A:679:ALA:HB3	1.99	0.45
1:A:4169:UNK:O	1:A:4172:UNK:CB	2.65	0.45
1:A:4818:UNK:N	1:A:4821:UNK:CB	2.73	0.45
1:B:1007:TYR:HE1	1:B:1015:ALA:CB	2.29	0.45
1:B:3317:UNK:CB	1:B:3323:UNK:CA	2.91	0.45
1:C:991:ASN:O	1:C:994:ASN:N	2.49	0.45
1:D:729:PRO:C	1:D:730:VAL:HG23	2.37	0.45
1:D:745:SER:HB3	1:D:758:ARG:HB2	1.99	0.45
1:D:5006:UNK:O	1:D:5009:UNK:N	2.49	0.45
1:A:150:MET:HE3	1:A:163:VAL:HG21	1.99	0.45
1:A:319:SER:HA	1:A:347:PHE:CE1	2.51	0.45
1:A:1453:VAL:HA	1:A:1471:ALA:HB1	1.98	0.45
1:B:332:GLU:OE1	1:B:332:GLU:CA	2.63	0.45
1:B:951:LYS:HG2	1:B:958:THR:O	2.16	0.45
1:B:1452:TRP:HZ2	1:B:1519:LEU:O	1.99	0.45
1:B:1495:VAL:O	1:B:1495:VAL:HG12	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1558:HIS:HD2	1:B:1559:GLN:HB2	1.81	0.45
1:C:353:SER:HB3	1:C:355:LEU:HG	1.99	0.45
1:C:4169:UNK:O	1:C:4172:UNK:CB	2.65	0.45
1:D:675:LEU:HD12	1:D:679:ALA:HB3	1.99	0.45
1:D:993:HIS:CE1	1:D:1020:ARG:CA	2.91	0.45
1:D:1462:MET:O	1:D:1555:LEU:HD22	2.17	0.45
1:D:1935:UNK:H	1:D:1938:UNK:CB	2.30	0.45
1:A:745:SER:HB3	1:A:758:ARG:HB2	1.99	0.45
1:A:1555:LEU:HB3	1:A:1556:PRO:CD	2.44	0.45
1:A:3445:UNK:C	1:A:3447:UNK:H	2.30	0.45
1:B:657:THR:OG1	1:B:662:TRP:CG	2.68	0.45
1:B:3306:UNK:CB	1:B:3309:UNK:CB	2.94	0.45
1:B:4169:UNK:O	1:B:4172:UNK:CB	2.65	0.45
1:C:906:CYS:SG	1:C:907:LEU:N	2.89	0.45
1:D:150:MET:HE3	1:D:163:VAL:HG21	1.99	0.45
1:A:991:ASN:O	1:A:994:ASN:N	2.50	0.45
1:A:2763:HIS:HE1	1:A:2790:MET:O	2.00	0.45
1:B:350:HIS:HB2	1:B:378:LEU:CD2	2.47	0.45
1:B:458:GLU:N	1:B:460:GLN:HB2	2.32	0.45
1:B:1835:UNK:O	1:B:1838:UNK:N	2.49	0.45
1:B:3895:UNK:HA	1:B:3898:UNK:CB	2.47	0.45
1:C:324:ASP:OD1	1:C:324:ASP:N	2.50	0.45
1:C:675:LEU:HD12	1:C:679:ALA:HB3	1.99	0.45
1:C:729:PRO:C	1:C:730:VAL:HG23	2.37	0.45
1:A:64:ILE:O	1:A:111:HIS:HE1	2.00	0.44
1:B:768:PHE:HB2	1:B:771:PHE:CZ	2.53	0.44
1:B:879:HIS:HE1	1:B:906:CYS:SG	2.39	0.44
1:B:1437:VAL:HG23	1:B:1518:CYS:H	1.81	0.44
1:C:1935:UNK:H	1:C:1938:UNK:CB	2.30	0.44
1:D:64:ILE:O	1:D:111:HIS:HE1	2.00	0.44
1:D:3268:UNK:N	1:D:3271:UNK:CB	2.67	0.44
1:A:246:TYR:CD1	1:A:375:LYS:HA	2.53	0.44
1:A:353:SER:HB3	1:A:355:LEU:HG	1.98	0.44
1:A:4585:UNK:O	1:D:4885:UNK:O	2.12	0.44
1:B:528:SER:HA	1:B:531:ARG:HD3	1.99	0.44
1:B:1022:VAL:C	1:B:1023:PRO:O	2.50	0.44
1:C:768:PHE:HB2	1:C:771:PHE:CZ	2.53	0.44
1:D:458:GLU:N	1:D:460:GLN:HB2	2.32	0.44
1:D:3205:UNK:HA	1:D:3208:UNK:N	2.32	0.44
1:D:3445:UNK:C	1:D:3447:UNK:H	2.30	0.44
1:A:332:GLU:OE1	1:A:332:GLU:CA	2.63	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1437:VAL:HG23	1:A:1518:CYS:H	1.81	0.44
1:B:991:ASN:O	1:B:994:ASN:N	2.49	0.44
1:C:265:LEU:HD12	1:C:265:LEU:HA	1.73	0.44
1:C:427:GLY:O	1:C:505:GLU:HG3	2.16	0.44
1:C:456:SER:OG	1:C:460:GLN:OE1	2.31	0.44
1:D:353:SER:HB3	1:D:355:LEU:HG	1.98	0.44
1:D:4169:UNK:O	1:D:4172:UNK:CB	2.65	0.44
1:A:1007:TYR:O	1:A:1008:SER:OG	2.30	0.44
1:A:1495:VAL:O	1:A:1495:VAL:HG12	2.16	0.44
1:A:4091:UNK:O	1:A:4094:UNK:N	2.51	0.44
1:B:2763:HIS:HE1	1:B:2790:MET:O	2.00	0.44
1:C:745:SER:HB3	1:C:758:ARG:HB2	1.99	0.44
1:C:1462:MET:O	1:C:1555:LEU:HD22	2.17	0.44
1:C:1476:MET:CE	1:C:1516:ILE:HD13	2.47	0.44
1:D:894:GLY:O	1:D:905:PRO:HA	2.17	0.44
1:D:1001:VAL:HG13	1:D:1002:ALA:N	2.30	0.44
1:D:1004:GLY:CA	1:D:1015:ALA:CB	2.60	0.44
1:D:2763:HIS:HE1	1:D:2790:MET:O	2.00	0.44
1:D:3304:UNK:C	1:D:3306:UNK:N	2.77	0.44
1:A:151:HIS:HB2	1:A:170:ILE:CG2	2.46	0.44
1:A:350:HIS:HB2	1:A:378:LEU:CD2	2.48	0.44
1:A:855:PRO:CG	1:A:994:ASN:O	2.58	0.44
1:A:1020:ARG:HH12	1:A:1027:LEU:HG	1.15	0.44
1:A:4898:UNK:CB	1:A:4899:UNK:C	2.96	0.44
1:B:26:ALA:HB2	1:B:182:LEU:HD21	1.99	0.44
1:B:74:SER:HA	1:B:105:HIS:HA	2.00	0.44
1:B:745:SER:HB3	1:B:758:ARG:HB2	1.99	0.44
1:B:993:HIS:O	1:B:996:TRP:CD2	2.69	0.44
1:C:82:LEU:C	1:C:82:LEU:CD2	2.85	0.44
1:C:458:GLU:N	1:C:460:GLN:HB2	2.32	0.44
1:C:981:GLN:O	1:C:985:VAL:HG23	2.18	0.44
1:D:82:LEU:C	1:D:82:LEU:CD2	2.85	0.44
1:D:324:ASP:OD1	1:D:324:ASP:N	2.50	0.44
1:D:424:LYS:HZ3	1:D:505:GLU:HB2	1.79	0.44
1:D:466:SER:O	1:D:469:ARG:HB2	2.17	0.44
1:D:1002:ALA:N	1:D:1005:TRP:NE1	2.65	0.44
1:D:1020:ARG:HH12	1:D:1027:LEU:HG	1.15	0.44
1:A:768:PHE:HB2	1:A:771:PHE:CZ	2.53	0.44
1:A:956:PRO:HD2	1:A:959:TYR:N	2.27	0.44
1:A:1022:VAL:C	1:A:1023:PRO:O	2.50	0.44
1:A:1437:VAL:HB	1:A:1517:GLY:HA2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1462:MET:O	1:A:1555:LEU:HD22	2.17	0.44
1:A:1935:UNK:H	1:A:1938:UNK:CB	2.30	0.44
1:A:3205:UNK:HA	1:A:3208:UNK:N	2.33	0.44
1:B:324:ASP:OD1	1:B:324:ASP:N	2.50	0.44
1:B:689:THR:HG22	1:B:778:PHE:HE2	1.83	0.44
1:B:719:LEU:HD22	1:B:737:LEU:HD11	1.99	0.44
1:B:1110:ARG:HG2	1:B:1112:ASP:H	1.83	0.44
1:B:4898:UNK:CB	1:B:4899:UNK:C	2.96	0.44
1:C:64:ILE:O	1:C:111:HIS:HE1	2.00	0.44
1:C:157:ARG:NH2	1:C:164:ARG:HD2	2.33	0.44
1:C:672:VAL:HG11	1:C:785:ALA:HB1	2.00	0.44
1:C:1495:VAL:HG12	1:C:1495:VAL:O	2.16	0.44
1:D:90:VAL:HB	1:D:91:GLU:OE1	2.18	0.44
1:D:689:THR:HG22	1:D:778:PHE:HE2	1.83	0.44
1:D:719:LEU:HD22	1:D:737:LEU:HD11	1.99	0.44
1:A:370:GLY:O	1:A:371:VAL:HG23	2.18	0.44
1:A:719:LEU:HD22	1:A:737:LEU:HD11	1.99	0.44
1:A:758:ARG:HG2	1:A:763:PRO:HA	2.00	0.44
1:B:64:ILE:O	1:B:111:HIS:HE1	2.00	0.44
1:B:728:ARG:HH11	1:B:1134:LEU:HB2	1.83	0.44
1:B:1004:GLY:N	1:B:1007:TYR:CE2	2.86	0.44
1:B:1813:UNK:O	1:B:1817:UNK:N	2.42	0.44
1:B:4113:UNK:HA	1:B:4116:UNK:CA	2.48	0.44
1:C:13:PHE:CE1	1:C:162:LYS:HB2	2.53	0.44
1:C:689:THR:HG22	1:C:778:PHE:HE2	1.83	0.44
1:C:3205:UNK:HA	1:C:3208:UNK:N	2.32	0.44
1:D:993:HIS:O	1:D:996:TRP:CD2	2.69	0.44
1:D:1004:GLY:N	1:D:1007:TYR:CE2	2.86	0.44
1:A:70:GLU:CG	1:A:110:ARG:HB2	2.48	0.44
1:A:265:LEU:HA	1:A:265:LEU:HD12	1.73	0.44
1:A:689:THR:HG22	1:A:778:PHE:HE2	1.83	0.44
1:A:1004:GLY:N	1:A:1007:TYR:CE2	2.86	0.44
1:A:1110:ARG:HG2	1:A:1112:ASP:H	1.83	0.44
1:A:3895:UNK:HA	1:A:3898:UNK:CB	2.47	0.44
1:B:70:GLU:CG	1:B:110:ARG:HB2	2.47	0.44
1:B:246:TYR:CD1	1:B:375:LYS:HA	2.53	0.44
1:B:370:GLY:O	1:B:371:VAL:HG23	2.18	0.44
1:B:675:LEU:HD12	1:B:679:ALA:HB3	1.99	0.44
1:C:466:SER:O	1:C:469:ARG:HB2	2.17	0.44
1:C:993:HIS:O	1:C:996:TRP:CD2	2.69	0.44
1:C:1110:ARG:HG2	1:C:1112:ASP:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:758:ARG:HG2	1:D:763:PRO:HA	2.00	0.44
1:D:1110:ARG:HG2	1:D:1112:ASP:H	1.83	0.44
1:D:3895:UNK:HA	1:D:3898:UNK:CB	2.47	0.44
1:D:4898:UNK:CB	1:D:4899:UNK:C	2.96	0.44
1:A:729:PRO:C	1:A:730:VAL:HG23	2.37	0.44
1:B:139:GLU:CD	1:B:139:GLU:H	2.21	0.44
1:B:424:LYS:NZ	1:B:506:TYR:CD1	2.83	0.44
1:B:729:PRO:C	1:B:730:VAL:HG23	2.37	0.44
1:B:753:PRO:CB	1:B:773:LEU:HD13	2.48	0.44
1:B:3036:UNK:O	1:B:3039:UNK:N	2.51	0.44
1:B:3304:UNK:C	1:B:3306:UNK:N	2.77	0.44
1:C:90:VAL:HB	1:C:91:GLU:OE1	2.18	0.44
1:C:350:HIS:HB2	1:C:378:LEU:CD2	2.47	0.44
1:C:1004:GLY:N	1:C:1007:TYR:CE2	2.86	0.44
1:C:1007:TYR:CD2	1:C:1016:ARG:CZ	2.95	0.44
1:D:672:VAL:HG11	1:D:785:ALA:HB1	2.00	0.44
1:A:466:SER:O	1:A:469:ARG:HB2	2.17	0.43
1:B:82:LEU:C	1:B:82:LEU:CD2	2.85	0.43
1:C:719:LEU:HD22	1:C:737:LEU:HD11	1.99	0.43
1:C:879:HIS:HE1	1:C:906:CYS:SG	2.39	0.43
1:C:993:HIS:CE1	1:C:1020:ARG:CA	2.91	0.43
1:C:3895:UNK:HA	1:C:3898:UNK:CB	2.47	0.43
1:C:4898:UNK:CB	1:C:4899:UNK:C	2.96	0.43
1:D:13:PHE:CE1	1:D:162:LYS:HB2	2.52	0.43
1:D:350:HIS:HB2	1:D:378:LEU:CD2	2.47	0.43
1:D:768:PHE:HB2	1:D:771:PHE:CZ	2.53	0.43
1:A:74:SER:HA	1:A:105:HIS:HA	2.00	0.43
1:A:445:LEU:HD23	1:A:521:LEU:CB	2.44	0.43
1:A:728:ARG:HH11	1:A:1134:LEU:HB2	1.83	0.43
1:A:753:PRO:CB	1:A:773:LEU:HD13	2.48	0.43
1:A:953:THR:HG22	1:A:954:LYS:N	2.34	0.43
1:A:981:GLN:O	1:A:985:VAL:HG23	2.18	0.43
1:B:89:GLY:HA2	1:B:90:VAL:HG13	2.00	0.43
1:B:466:SER:O	1:B:469:ARG:HB2	2.17	0.43
1:B:1000:ARG:NH2	1:B:1016:ARG:O	2.47	0.43
1:B:1935:UNK:H	1:B:1938:UNK:CB	2.30	0.43
1:B:4091:UNK:O	1:B:4094:UNK:N	2.51	0.43
1:C:70:GLU:CG	1:C:110:ARG:HB2	2.48	0.43
1:C:528:SER:HA	1:C:531:ARG:HD3	2.00	0.43
1:C:3036:UNK:O	1:C:3039:UNK:N	2.51	0.43
1:D:19:GLU:HG2	1:D:205:ILE:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:26:ALA:HB2	1:D:182:LEU:HD21	2.00	0.43
1:D:170:ILE:HD12	1:D:170:ILE:HA	1.93	0.43
1:D:370:GLY:O	1:D:371:VAL:HG23	2.18	0.43
1:D:756:SER:HB2	1:D:766:GLY:HA2	2.01	0.43
1:D:4904:UNK:O	1:D:4905:UNK:C	2.66	0.43
1:A:89:GLY:HA2	1:A:90:VAL:HG13	2.00	0.43
1:A:157:ARG:NH2	1:A:164:ARG:HD2	2.32	0.43
1:A:528:SER:HA	1:A:531:ARG:HD3	1.99	0.43
1:A:894:GLY:O	1:A:905:PRO:HA	2.17	0.43
1:A:1000:ARG:CD	1:A:1007:TYR:OH	2.66	0.43
1:A:3036:UNK:O	1:A:3039:UNK:N	2.51	0.43
1:A:4904:UNK:O	1:A:4905:UNK:C	2.66	0.43
1:B:84:ASN:ND2	1:B:84:ASN:N	2.60	0.43
1:B:157:ARG:NH2	1:B:164:ARG:HD2	2.33	0.43
1:B:672:VAL:HG11	1:B:785:ALA:HB1	2.00	0.43
1:B:981:GLN:O	1:B:985:VAL:HG23	2.18	0.43
1:B:1000:ARG:HD2	1:B:1000:ARG:C	2.29	0.43
1:C:246:TYR:CD1	1:C:375:LYS:HA	2.53	0.43
1:C:728:ARG:HD3	1:C:1133:HIS:CD2	2.54	0.43
1:D:157:ARG:NH2	1:D:164:ARG:HD2	2.33	0.43
1:D:246:TYR:CD1	1:D:375:LYS:HA	2.52	0.43
1:D:275:ARG:HG3	1:D:278:GLN:HB2	2.00	0.43
1:D:424:LYS:NZ	1:D:506:TYR:CD1	2.83	0.43
1:D:728:ARG:NH1	1:D:1119:GLU:HA	2.31	0.43
1:D:753:PRO:CB	1:D:773:LEU:HD13	2.48	0.43
1:D:953:THR:HG22	1:D:954:LYS:N	2.34	0.43
1:D:981:GLN:O	1:D:985:VAL:HG23	2.18	0.43
1:A:13:PHE:CE1	1:A:162:LYS:HB2	2.53	0.43
1:A:275:ARG:HG3	1:A:278:GLN:HB2	2.00	0.43
1:A:317:ARG:HH12	1:A:322:LYS:CA	2.24	0.43
1:A:988:LEU:CB	1:A:1039:LEU:HD22	2.47	0.43
1:A:1007:TYR:CD2	1:A:1016:ARG:CZ	2.95	0.43
1:B:20:VAL:HA	1:B:205:ILE:HG12	2.00	0.43
1:B:3205:UNK:CA	1:B:3208:UNK:CB	2.84	0.43
1:C:170:ILE:HD12	1:C:170:ILE:HA	1.93	0.43
1:D:20:VAL:CA	1:D:205:ILE:HG12	2.49	0.43
1:D:70:GLU:CG	1:D:110:ARG:HB2	2.48	0.43
1:D:89:GLY:HA2	1:D:90:VAL:HG13	2.00	0.43
1:D:1477:GLY:C	1:D:1509:ILE:HG22	2.39	0.43
1:A:1007:TYR:C	1:A:1008:SER:OG	2.56	0.43
1:A:4103:UNK:C	1:A:4104:UNK:O	2.64	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:20:VAL:CA	1:B:205:ILE:HG12	2.49	0.43
1:B:46:LEU:HD23	1:B:46:LEU:HA	1.84	0.43
1:B:50:GLU:HA	1:B:51:PRO:HD2	1.92	0.43
1:B:353:SER:HB3	1:B:355:LEU:HG	1.98	0.43
1:B:1007:TYR:C	1:B:1008:SER:OG	2.56	0.43
1:B:4904:UNK:O	1:B:4905:UNK:C	2.66	0.43
1:C:2763:HIS:HE1	1:C:2790:MET:O	2.00	0.43
1:C:4091:UNK:O	1:C:4094:UNK:N	2.51	0.43
1:C:4904:UNK:O	1:C:4905:UNK:C	2.66	0.43
1:D:728:ARG:HH11	1:D:1134:LEU:HB2	1.83	0.43
1:D:752:VAL:HB	1:D:754:SER:CB	2.49	0.43
1:D:1000:ARG:CD	1:D:1007:TYR:OH	2.67	0.43
1:D:1016:ARG:C	1:D:1017:ARG:CD	2.80	0.43
1:A:20:VAL:HA	1:A:205:ILE:HG12	2.00	0.43
1:A:20:VAL:CA	1:A:205:ILE:HG12	2.49	0.43
1:A:672:VAL:HG11	1:A:785:ALA:HB1	2.00	0.43
1:A:728:ARG:HD3	1:A:1133:HIS:CD2	2.53	0.43
1:A:756:SER:HB2	1:A:766:GLY:HA2	2.01	0.43
1:A:855:PRO:HA	1:A:994:ASN:CB	2.20	0.43
1:A:1007:TYR:HE1	1:A:1015:ALA:CB	2.29	0.43
1:B:728:ARG:HD3	1:B:1133:HIS:CD2	2.54	0.43
1:B:756:SER:HB2	1:B:766:GLY:HA2	2.01	0.43
1:B:1007:TYR:CD2	1:B:1016:ARG:CZ	2.95	0.43
1:C:20:VAL:CA	1:C:205:ILE:HG12	2.49	0.43
1:C:150:MET:HE3	1:C:163:VAL:HG21	2.00	0.43
1:C:329:ARG:NH1	1:C:329:ARG:CG	2.71	0.43
1:D:576:UNK:CA	1:D:579:UNK:CB	2.92	0.43
1:D:4091:UNK:O	1:D:4094:UNK:N	2.51	0.43
1:A:221:ARG:NH2	1:A:259:LEU:HD11	2.34	0.43
1:A:426:ARG:CZ	1:A:796:ARG:NH2	2.71	0.43
1:B:150:MET:HE3	1:B:163:VAL:HG21	2.00	0.43
1:B:1000:ARG:CD	1:B:1007:TYR:OH	2.67	0.43
1:B:1020:ARG:HH12	1:B:1027:LEU:HG	1.15	0.43
1:B:1477:GLY:C	1:B:1509:ILE:HG22	2.39	0.43
1:B:4232:UNK:H2	1:B:4235:UNK:CB	2.31	0.43
1:C:73:LEU:HB2	1:C:78:LEU:HD22	1.60	0.43
1:C:139:GLU:CD	1:C:139:GLU:H	2.22	0.43
1:C:332:GLU:OE1	1:C:332:GLU:CA	2.63	0.43
1:C:753:PRO:CB	1:C:773:LEU:HD13	2.48	0.43
1:C:758:ARG:HG2	1:C:763:PRO:HA	2.00	0.43
1:C:953:THR:HG22	1:C:954:LYS:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1076:ARG:HG2	1:C:1191:VAL:HG12	2.00	0.43
1:D:528:SER:HA	1:D:531:ARG:HD3	1.99	0.43
1:D:728:ARG:HD3	1:D:1133:HIS:CD2	2.54	0.43
1:D:728:ARG:HA	1:D:729:PRO:HA	1.63	0.43
1:D:1437:VAL:HB	1:D:1517:GLY:HA2	2.00	0.43
1:D:3036:UNK:O	1:D:3039:UNK:N	2.51	0.43
1:D:4232:UNK:H2	1:D:4235:UNK:CB	2.31	0.43
1:A:424:LYS:NZ	1:A:506:TYR:CD1	2.83	0.43
1:A:728:ARG:NH1	1:A:1119:GLU:HA	2.31	0.43
1:B:13:PHE:CE1	1:B:162:LYS:HB2	2.53	0.43
1:C:89:GLY:HA2	1:C:90:VAL:HG13	2.01	0.43
1:C:322:LYS:CB	1:C:322:LYS:HZ3	2.32	0.43
1:C:445:LEU:HD23	1:C:521:LEU:CB	2.44	0.43
1:C:956:PRO:CD	1:C:959:TYR:CD1	2.58	0.43
1:C:3398:UNK:C	1:C:3401:UNK:N	2.82	0.43
1:C:4103:UNK:C	1:C:4104:UNK:O	2.64	0.43
1:D:368:ARG:HB3	1:D:369:LEU:HD22	2.01	0.43
1:D:1022:VAL:HG22	1:D:1027:LEU:HD21	2.01	0.43
1:A:870:ILE:HD13	1:A:870:ILE:HA	1.78	0.43
1:B:90:VAL:HB	1:B:91:GLU:OE1	2.18	0.43
1:B:368:ARG:HB3	1:B:369:LEU:HD22	2.00	0.43
1:B:1076:ARG:HG2	1:B:1191:VAL:HG12	2.00	0.43
1:C:370:GLY:O	1:C:371:VAL:HG23	2.18	0.43
1:C:756:SER:HB2	1:C:766:GLY:HA2	2.01	0.43
1:C:4113:UNK:HA	1:C:4116:UNK:CA	2.48	0.43
1:C:4232:UNK:H2	1:C:4235:UNK:CB	2.31	0.43
1:C:4730:UNK:O	1:C:4731:UNK:C	2.66	0.43
1:D:456:SER:OG	1:D:460:GLN:OE1	2.31	0.43
1:D:1000:ARG:C	1:D:1000:ARG:HD3	2.39	0.43
1:D:1022:VAL:HG21	1:D:1027:LEU:HD23	2.01	0.43
1:D:1076:ARG:HG2	1:D:1191:VAL:HG12	2.00	0.43
1:A:26:ALA:HB2	1:A:182:LEU:HD21	2.00	0.43
1:B:207:SER:OG	1:B:269:TRP:CE3	2.70	0.43
1:B:758:ARG:HG2	1:B:763:PRO:HA	2.00	0.43
1:B:773:LEU:HA	1:B:777:PHE:HZ	1.83	0.43
1:B:1018:ASN:HA	1:B:1019:PRO:HD3	1.84	0.43
1:C:1437:VAL:HB	1:C:1517:GLY:HA2	2.00	0.43
1:D:369:LEU:HB3	1:D:370:GLY:HA2	2.01	0.43
1:A:90:VAL:HB	1:A:91:GLU:OE1	2.18	0.42
1:B:953:THR:HG22	1:B:954:LYS:N	2.34	0.42
1:C:151:HIS:HB2	1:C:170:ILE:CG2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:728:ARG:HA	1:C:729:PRO:HA	1.63	0.42
1:C:1022:VAL:HG22	1:C:1027:LEU:HD21	2.01	0.42
1:C:1437:VAL:CG2	1:C:1518:CYS:H	2.32	0.42
1:D:332:GLU:OE1	1:D:332:GLU:CA	2.63	0.42
1:D:657:THR:OG1	1:D:662:TRP:CG	2.68	0.42
1:D:1429:ASN:HB2	1:D:1547:LYS:CG	2.49	0.42
1:D:2908:TYR:O	1:D:2916:LYS:HE2	2.19	0.42
1:A:79:GLN:HE21	1:A:79:GLN:HB3	1.59	0.42
1:A:1076:ARG:HG2	1:A:1191:VAL:HG12	2.00	0.42
1:A:1477:GLY:C	1:A:1509:ILE:HG22	2.39	0.42
1:A:1492:CYS:SG	1:A:1539:PHE:HE1	2.39	0.42
1:A:2908:TYR:O	1:A:2916:LYS:HE2	2.19	0.42
1:B:728:ARG:NH1	1:B:1119:GLU:HA	2.31	0.42
1:B:1429:ASN:O	1:B:1522:LEU:HD13	2.19	0.42
1:B:1437:VAL:CG2	1:B:1518:CYS:H	2.32	0.42
1:B:4797:UNK:O	1:B:4801:UNK:O	2.38	0.42
1:C:26:ALA:HB2	1:C:182:LEU:HD21	2.00	0.42
1:C:728:ARG:NH1	1:C:1119:GLU:HA	2.31	0.42
1:C:1004:GLY:O	1:C:1007:TYR:C	2.57	0.42
1:D:77:ALA:CA	1:D:80:GLU:CG	2.90	0.42
1:D:81:MET:O	1:D:85:THR:HG23	2.19	0.42
1:D:445:LEU:HD23	1:D:521:LEU:CB	2.44	0.42
1:D:1437:VAL:CG2	1:D:1518:CYS:H	2.32	0.42
1:A:12:GLN:NE2	1:A:164:ARG:HB3	2.34	0.42
1:A:369:LEU:HB3	1:A:370:GLY:HA2	2.01	0.42
1:A:681:HIS:CE1	1:A:719:LEU:HB2	2.55	0.42
1:A:1004:GLY:O	1:A:1007:TYR:C	2.58	0.42
1:A:1022:VAL:HG21	1:A:1027:LEU:HD23	2.01	0.42
1:A:4113:UNK:HA	1:A:4116:UNK:CA	2.48	0.42
1:A:4232:UNK:H2	1:A:4235:UNK:CB	2.31	0.42
1:B:110:ARG:HH21	1:B:115:ARG:HB3	1.84	0.42
1:B:1004:GLY:O	1:B:1007:TYR:C	2.57	0.42
1:B:1437:VAL:HB	1:B:1517:GLY:HA2	2.00	0.42
1:B:3205:UNK:HA	1:B:3208:UNK:N	2.33	0.42
1:C:110:ARG:HH21	1:C:115:ARG:HB3	1.85	0.42
1:C:275:ARG:HG3	1:C:278:GLN:HB2	2.00	0.42
1:C:681:HIS:CE1	1:C:719:LEU:HB2	2.55	0.42
1:C:728:ARG:HH11	1:C:1134:LEU:HB2	1.83	0.42
1:C:1000:ARG:CD	1:C:1007:TYR:OH	2.66	0.42
1:C:1022:VAL:HG21	1:C:1027:LEU:HD23	2.01	0.42
1:D:1007:TYR:C	1:D:1008:SER:OG	2.56	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:GLN:NE2	1:B:164:ARG:HB3	2.34	0.42
1:B:336:PRO:HA	1:B:337:PRO:HD2	1.93	0.42
1:C:85:THR:O	1:C:89:GLY:N	2.51	0.42
1:C:1007:TYR:C	1:C:1008:SER:OG	2.56	0.42
1:C:1018:ASN:HA	1:C:1019:PRO:HD3	1.84	0.42
1:C:4087:UNK:HA	1:C:4123:UNK:O	2.19	0.42
1:D:1004:GLY:O	1:D:1007:TYR:C	2.57	0.42
1:D:3398:UNK:C	1:D:3401:UNK:N	2.82	0.42
1:A:368:ARG:HB3	1:A:369:LEU:HD22	2.01	0.42
1:A:752:VAL:HB	1:A:754:SER:CB	2.49	0.42
1:A:773:LEU:O	1:A:775:GLY:N	2.53	0.42
1:A:1020:ARG:NH2	1:A:1027:LEU:CD2	2.55	0.42
1:A:4730:UNK:O	1:A:4731:UNK:C	2.66	0.42
1:B:265:LEU:HD12	1:B:265:LEU:HA	1.73	0.42
1:B:369:LEU:HB3	1:B:370:GLY:HA2	2.01	0.42
1:C:20:VAL:HA	1:C:205:ILE:HG12	2.00	0.42
1:D:20:VAL:HA	1:D:205:ILE:HG12	2.00	0.42
1:D:81:MET:CE	1:D:85:THR:CG2	2.97	0.42
1:D:139:GLU:CD	1:D:139:GLU:H	2.22	0.42
1:D:998:ARG:NH2	1:D:1002:ALA:HB3	2.16	0.42
1:D:1100:MET:SD	1:D:1194:LEU:HD13	2.60	0.42
1:A:1100:MET:SD	1:A:1194:LEU:HD13	2.60	0.42
1:A:1429:ASN:HB2	1:A:1547:LYS:CG	2.49	0.42
1:A:1465:ASP:CA	1:A:1553:PHE:CG	2.73	0.42
1:A:3398:UNK:C	1:A:3401:UNK:N	2.82	0.42
1:B:221:ARG:NH2	1:B:259:LEU:HD11	2.34	0.42
1:B:728:ARG:HH11	1:B:1133:HIS:C	2.23	0.42
1:B:752:VAL:HB	1:B:754:SER:CB	2.49	0.42
1:B:1429:ASN:HB2	1:B:1547:LYS:CG	2.49	0.42
1:B:1452:TRP:CZ2	1:B:1527:MET:HG2	2.54	0.42
1:C:81:MET:CE	1:C:85:THR:CG2	2.97	0.42
1:D:74:SER:HA	1:D:105:HIS:HA	2.00	0.42
1:D:123:THR:HG23	1:D:134:ASP:OD2	2.20	0.42
1:D:1021:LEU:C	1:D:1022:VAL:HG22	2.32	0.42
1:D:1444:GLU:N	1:D:1445:PRO:CA	2.82	0.42
1:A:81:MET:CE	1:A:85:THR:CG2	2.97	0.42
1:A:242:ARG:HB2	1:A:289:ARG:HH12	1.85	0.42
1:A:1022:VAL:HG22	1:A:1027:LEU:HD21	2.01	0.42
1:A:1437:VAL:CG2	1:A:1518:CYS:H	2.33	0.42
1:B:123:THR:HG23	1:B:134:ASP:OD2	2.20	0.42
1:B:1100:MET:SD	1:B:1194:LEU:HD13	2.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:19:GLU:HG2	1:C:205:ILE:CG1	2.48	0.42
1:C:76:ARG:NH1	1:D:3930:UNK:O	2.44	0.42
1:C:207:SER:OG	1:C:269:TRP:CE3	2.70	0.42
1:C:728:ARG:HH11	1:C:1133:HIS:C	2.23	0.42
1:C:1020:ARG:HH12	1:C:1027:LEU:HG	1.15	0.42
1:C:1429:ASN:HB2	1:C:1547:LYS:CG	2.49	0.42
1:C:1549:PHE:CG	1:C:1550:PRO:CD	3.03	0.42
1:C:4797:UNK:O	1:C:4801:UNK:O	2.38	0.42
1:D:681:HIS:CE1	1:D:719:LEU:HB2	2.55	0.42
1:A:991:ASN:C	1:A:993:HIS:N	2.73	0.42
1:A:1429:ASN:O	1:A:1522:LEU:HD13	2.19	0.42
1:A:1452:TRP:CZ2	1:A:1527:MET:HG2	2.55	0.42
1:A:1549:PHE:CG	1:A:1550:PRO:CD	3.03	0.42
1:A:4797:UNK:O	1:A:4801:UNK:O	2.38	0.42
1:D:753:PRO:CG	1:D:773:LEU:HD12	2.07	0.42
1:D:773:LEU:O	1:D:775:GLY:N	2.53	0.42
1:D:1813:UNK:O	1:D:1817:UNK:N	2.42	0.42
1:D:4665:UNK:O	1:D:4668:UNK:N	2.53	0.42
1:A:81:MET:O	1:A:85:THR:HG23	2.19	0.42
1:A:139:GLU:CD	1:A:139:GLU:H	2.22	0.42
1:A:286:THR:HG21	1:A:481:GLU:OE2	2.20	0.42
1:A:4087:UNK:HA	1:A:4123:UNK:O	2.19	0.42
1:B:275:ARG:HG3	1:B:278:GLN:HB2	2.00	0.42
1:B:681:HIS:CE1	1:B:719:LEU:HB2	2.55	0.42
1:B:1470:ARG:HG3	1:B:1497:GLY:HA2	2.02	0.42
1:C:81:MET:O	1:C:85:THR:HG23	2.19	0.42
1:C:369:LEU:HB3	1:C:370:GLY:HA2	2.01	0.42
1:C:2908:TYR:O	1:C:2916:LYS:HE2	2.19	0.42
1:C:3894:UNK:O	1:C:3898:UNK:CA	2.68	0.42
1:C:4898:UNK:CA	1:C:4899:UNK:C	2.98	0.42
1:D:110:ARG:HH21	1:D:115:ARG:HB3	1.85	0.42
1:D:4898:UNK:CA	1:D:4899:UNK:C	2.98	0.42
1:A:379:HIS:CD2	1:A:381:GLU:H	2.38	0.42
1:A:4665:UNK:O	1:A:4668:UNK:N	2.53	0.42
1:B:379:HIS:CD2	1:B:381:GLU:H	2.38	0.42
1:B:1549:PHE:CD1	1:B:1550:PRO:O	2.73	0.42
1:B:3305:UNK:O	1:B:3308:UNK:CB	2.68	0.42
1:C:213:TYR:CD1	1:C:337:PRO:HB2	2.55	0.42
1:C:1470:ARG:HG3	1:C:1497:GLY:HA2	2.02	0.42
1:D:379:HIS:CD2	1:D:381:GLU:H	2.38	0.42
1:D:728:ARG:HH11	1:D:1133:HIS:C	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1549:PHE:CD1	1:D:1550:PRO:O	2.73	0.42
1:D:4807:UNK:O	1:D:4811:UNK:N	2.53	0.42
1:A:213:TYR:CD1	1:A:337:PRO:HB2	2.55	0.41
1:B:242:ARG:HB2	1:B:289:ARG:HH12	1.85	0.41
1:B:3398:UNK:C	1:B:3401:UNK:N	2.82	0.41
1:B:4898:UNK:CA	1:B:4899:UNK:C	2.98	0.41
1:C:77:ALA:O	1:C:80:GLU:HG3	2.20	0.41
1:C:221:ARG:NH2	1:C:259:LEU:HD11	2.34	0.41
1:C:1083:VAL:HG13	1:C:1088:TRP:HB3	2.03	0.41
1:C:1452:TRP:CZ2	1:C:1527:MET:HG2	2.55	0.41
1:C:1471:ALA:C	1:C:1472:VAL:CG2	2.87	0.41
1:C:1477:GLY:C	1:C:1509:ILE:HG22	2.39	0.41
1:D:514:SER:O	1:D:518:ILE:HG13	2.20	0.41
1:D:711:LEU:HD23	1:D:726:VAL:HG11	2.02	0.41
1:D:855:PRO:HG3	1:D:994:ASN:CA	2.50	0.41
1:D:4797:UNK:O	1:D:4801:UNK:O	2.38	0.41
1:A:1434:TYR:HD1	1:A:1570:LYS:HB2	1.77	0.41
1:A:4232:UNK:O	1:A:4233:UNK:N	2.54	0.41
1:B:993:HIS:CE1	1:B:1020:ARG:CA	2.91	0.41
1:B:4797:UNK:C	1:B:4801:UNK:O	2.68	0.41
1:C:50:GLU:HA	1:C:51:PRO:HD2	1.92	0.41
1:C:467:LYS:HB3	1:C:467:LYS:HZ1	1.83	0.41
1:C:752:VAL:HB	1:C:754:SER:CB	2.49	0.41
1:C:773:LEU:O	1:C:775:GLY:N	2.53	0.41
1:C:1100:MET:SD	1:C:1194:LEU:HD13	2.60	0.41
1:C:1429:ASN:O	1:C:1522:LEU:HD13	2.19	0.41
1:C:1452:TRP:CB	1:C:1527:MET:HE1	2.50	0.41
1:D:1492:CYS:SG	1:D:1539:PHE:HE1	2.39	0.41
1:D:1549:PHE:CG	1:D:1550:PRO:CD	3.03	0.41
1:A:76:ARG:NH1	1:B:3930:UNK:O	2.43	0.41
1:A:206:CYS:HB3	1:A:271:GLY:HA3	2.02	0.41
1:A:514:SER:O	1:A:518:ILE:HG13	2.20	0.41
1:A:4797:UNK:C	1:A:4801:UNK:O	2.68	0.41
1:B:19:GLU:HG2	1:B:205:ILE:CG1	2.48	0.41
1:B:77:ALA:O	1:B:80:GLU:HG3	2.20	0.41
1:B:213:TYR:CD1	1:B:337:PRO:HB2	2.55	0.41
1:B:1441:ALA:CB	1:B:1513:ASP:HA	2.50	0.41
1:B:1549:PHE:CG	1:B:1550:PRO:CD	3.03	0.41
1:B:2908:TYR:O	1:B:2916:LYS:HE2	2.19	0.41
1:B:4232:UNK:O	1:B:4233:UNK:N	2.54	0.41
1:B:4665:UNK:O	1:B:4668:UNK:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:4807:UNK:O	1:B:4811:UNK:N	2.53	0.41
1:C:74:SER:HA	1:C:105:HIS:HA	2.00	0.41
1:C:728:ARG:NH1	1:C:1133:HIS:C	2.74	0.41
1:C:3985:UNK:O	1:C:3988:UNK:CB	2.69	0.41
1:D:221:ARG:NH2	1:D:259:LEU:HD11	2.34	0.41
1:D:265:LEU:HD12	1:D:265:LEU:HA	1.73	0.41
1:D:1429:ASN:HB2	1:D:1547:LYS:CD	2.45	0.41
1:D:2285:UNK:C	1:D:2286:UNK:H2	2.29	0.41
1:D:4087:UNK:HA	1:D:4123:UNK:O	2.19	0.41
1:A:457:GLU:C	1:A:460:GLN:HB2	2.41	0.41
1:A:1441:ALA:CB	1:A:1513:ASP:HA	2.50	0.41
1:A:1476:MET:CE	1:A:1516:ILE:HD13	2.47	0.41
1:A:3305:UNK:O	1:A:3308:UNK:CB	2.68	0.41
1:A:3930:UNK:O	1:D:76:ARG:NH1	2.42	0.41
1:A:3984:UNK:C	1:A:3986:UNK:N	2.82	0.41
1:A:4807:UNK:O	1:A:4811:UNK:N	2.53	0.41
1:B:81:MET:O	1:B:85:THR:HG23	2.19	0.41
1:B:81:MET:CE	1:B:85:THR:CG2	2.97	0.41
1:B:514:SER:O	1:B:518:ILE:HG13	2.20	0.41
1:B:855:PRO:HG3	1:B:994:ASN:CA	2.50	0.41
1:B:998:ARG:NH2	1:B:1002:ALA:HB3	2.16	0.41
1:B:1007:TYR:CE1	1:B:1015:ALA:C	2.94	0.41
1:B:3894:UNK:O	1:B:3898:UNK:CA	2.68	0.41
1:B:4087:UNK:HA	1:B:4123:UNK:O	2.19	0.41
1:B:4854:UNK:O	1:B:4857:UNK:N	2.54	0.41
1:C:79:GLN:CG	1:C:80:GLU:N	2.75	0.41
1:C:379:HIS:CD2	1:C:381:GLU:H	2.38	0.41
1:C:1007:TYR:CE1	1:C:1015:ALA:C	2.94	0.41
1:C:1492:CYS:SG	1:C:1539:PHE:HE1	2.39	0.41
1:C:1549:PHE:CD1	1:C:1550:PRO:O	2.73	0.41
1:C:4665:UNK:O	1:C:4668:UNK:N	2.53	0.41
1:C:4854:UNK:O	1:C:4857:UNK:N	2.54	0.41
1:D:728:ARG:NH1	1:D:1133:HIS:C	2.74	0.41
1:D:1429:ASN:O	1:D:1522:LEU:HD13	2.19	0.41
1:D:1470:ARG:HG3	1:D:1497:GLY:HA2	2.02	0.41
1:D:3984:UNK:C	1:D:3986:UNK:N	2.82	0.41
1:A:166:GLY:O	1:B:384:MET:SD	2.79	0.41
1:A:329:ARG:NH1	1:A:329:ARG:CG	2.71	0.41
1:A:3985:UNK:O	1:A:3988:UNK:CB	2.69	0.41
1:A:4730:UNK:C	1:A:4731:UNK:O	2.68	0.41
1:B:90:VAL:HB	1:B:91:GLU:CD	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:299:LEU:HD13	1:B:378:LEU:HD11	2.03	0.41
1:C:711:LEU:HD23	1:C:726:VAL:HG11	2.02	0.41
1:C:767:VAL:HG12	1:C:768:PHE:CD2	2.56	0.41
1:C:773:LEU:HA	1:C:777:PHE:HZ	1.83	0.41
1:C:4797:UNK:C	1:C:4801:UNK:O	2.68	0.41
1:D:79:GLN:HE21	1:D:79:GLN:HB3	1.59	0.41
1:D:80:GLU:O	1:D:83:ALA:HB3	2.21	0.41
1:D:84:ASN:ND2	1:D:84:ASN:N	2.60	0.41
1:D:206:CYS:CB	1:D:271:GLY:C	2.89	0.41
1:D:457:GLU:C	1:D:460:GLN:HB2	2.41	0.41
1:D:1007:TYR:CE1	1:D:1015:ALA:C	2.94	0.41
1:D:1452:TRP:CG	1:D:1527:MET:HE1	2.56	0.41
1:D:1452:TRP:CZ2	1:D:1527:MET:HG2	2.55	0.41
1:A:80:GLU:O	1:A:83:ALA:HB3	2.21	0.41
1:A:123:THR:HG23	1:A:134:ASP:OD2	2.20	0.41
1:A:206:CYS:CB	1:A:271:GLY:C	2.89	0.41
1:A:728:ARG:NH1	1:A:1133:HIS:C	2.74	0.41
1:A:728:ARG:HH11	1:A:1133:HIS:C	2.23	0.41
1:A:1007:TYR:CE1	1:A:1015:ALA:C	2.94	0.41
1:A:1549:PHE:CD1	1:A:1550:PRO:O	2.73	0.41
1:B:206:CYS:HB3	1:B:271:GLY:HA3	2.02	0.41
1:B:206:CYS:CB	1:B:271:GLY:C	2.89	0.41
1:B:428:SER:O	1:B:428:SER:OG	2.39	0.41
1:B:728:ARG:NH1	1:B:1133:HIS:C	2.74	0.41
1:B:988:LEU:CB	1:B:1039:LEU:HD22	2.47	0.41
1:B:1083:VAL:HG13	1:B:1088:TRP:HB3	2.03	0.41
1:B:1471:ALA:C	1:B:1472:VAL:CG2	2.87	0.41
1:C:165:VAL:HG21	1:C:204:PRO:HG3	2.03	0.41
1:C:206:CYS:HB3	1:C:271:GLY:HA3	2.02	0.41
1:C:1020:ARG:NH2	1:C:1027:LEU:CD2	2.55	0.41
1:D:242:ARG:HB2	1:D:289:ARG:HH12	1.85	0.41
1:D:767:VAL:HG12	1:D:768:PHE:CD2	2.56	0.41
1:A:90:VAL:HB	1:A:91:GLU:CD	2.41	0.41
1:A:1083:VAL:HG13	1:A:1088:TRP:HB3	2.03	0.41
1:A:3900:UNK:O	1:A:3901:UNK:C	2.69	0.41
1:A:4681:UNK:O	1:A:4685:UNK:N	2.54	0.41
1:B:445:LEU:HD23	1:B:521:LEU:CB	2.44	0.41
1:B:767:VAL:HG12	1:B:768:PHE:CD2	2.56	0.41
1:B:1020:ARG:O	1:B:1020:ARG:CD	2.67	0.41
1:B:3985:UNK:O	1:B:3988:UNK:CB	2.69	0.41
1:C:368:ARG:HB3	1:C:369:LEU:HD22	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:457:GLU:C	1:C:460:GLN:HB2	2.41	0.41
1:C:3305:UNK:O	1:C:3308:UNK:CB	2.68	0.41
1:D:286:THR:HG21	1:D:481:GLU:OE2	2.20	0.41
1:D:1083:VAL:HG13	1:D:1088:TRP:HB3	2.02	0.41
1:D:4232:UNK:O	1:D:4233:UNK:N	2.54	0.41
1:D:4645:UNK:O	1:D:4648:UNK:N	2.54	0.41
1:D:4681:UNK:O	1:D:4685:UNK:N	2.54	0.41
1:A:671:VAL:HA	1:A:787:VAL:HG12	2.03	0.41
1:A:767:VAL:HG12	1:A:768:PHE:CD2	2.56	0.41
1:A:4898:UNK:CA	1:A:4899:UNK:C	2.98	0.41
1:B:286:THR:HG21	1:B:481:GLU:OE2	2.20	0.41
1:B:457:GLU:C	1:B:460:GLN:HB2	2.41	0.41
1:B:575:UNK:O	1:B:579:UNK:CB	2.69	0.41
1:B:864:PRO:HA	1:B:865:PRO:HD3	1.90	0.41
1:B:954:LYS:HB2	1:B:971:ASP:HB2	2.03	0.41
1:B:1452:TRP:CB	1:B:1527:MET:HE1	2.51	0.41
1:B:4681:UNK:O	1:B:4685:UNK:N	2.54	0.41
1:C:123:THR:HG23	1:C:134:ASP:OD2	2.20	0.41
1:C:4681:UNK:O	1:C:4685:UNK:N	2.54	0.41
1:C:4807:UNK:O	1:C:4811:UNK:N	2.53	0.41
1:D:77:ALA:C	1:D:80:GLU:HG2	2.41	0.41
1:D:77:ALA:O	1:D:80:GLU:HG3	2.20	0.41
1:D:1465:ASP:CA	1:D:1553:PHE:CG	2.73	0.41
1:A:46:LEU:HA	1:A:46:LEU:HD23	1.84	0.41
1:A:77:ALA:O	1:A:80:GLU:HG3	2.20	0.41
1:A:77:ALA:C	1:A:80:GLU:HG2	2.41	0.41
1:A:102:LEU:HB2	1:A:105:HIS:CD2	2.56	0.41
1:A:110:ARG:HH21	1:A:115:ARG:HB3	1.85	0.41
1:A:310:LYS:HD3	1:A:352:ALA:HB2	2.03	0.41
1:A:322:LYS:HB2	1:A:322:LYS:HZ2	1.85	0.41
1:A:411:TYR:OH	1:A:445:LEU:HD12	2.21	0.41
1:A:544:UNK:O	1:A:547:UNK:CB	2.69	0.41
1:A:954:LYS:HB2	1:A:971:ASP:HB2	2.03	0.41
1:A:1495:VAL:N	1:A:1540:PHE:CE1	2.89	0.41
1:A:4854:UNK:O	1:A:4857:UNK:N	2.54	0.41
1:A:5016:UNK:O	1:A:5017:UNK:C	2.69	0.41
1:B:77:ALA:C	1:B:80:GLU:HG2	2.41	0.41
1:B:78:LEU:HG	1:B:78:LEU:H	1.67	0.41
1:B:78:LEU:HD13	1:B:106:ALA:N	2.36	0.41
1:B:85:THR:O	1:B:89:GLY:N	2.51	0.41
1:B:102:LEU:HB2	1:B:105:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:151:HIS:HB2	1:B:170:ILE:CG2	2.46	0.41
1:B:341:TYR:HD1	1:B:390:LEU:O	2.04	0.41
1:B:773:LEU:O	1:B:775:GLY:N	2.53	0.41
1:B:1022:VAL:HG22	1:B:1027:LEU:HD21	2.01	0.41
1:B:1476:MET:CE	1:B:1516:ILE:HD13	2.47	0.41
1:B:3900:UNK:O	1:B:3901:UNK:C	2.69	0.41
1:C:80:GLU:O	1:C:83:ALA:HB3	2.21	0.41
1:C:102:LEU:HB2	1:C:105:HIS:CD2	2.56	0.41
1:C:206:CYS:CB	1:C:271:GLY:C	2.89	0.41
1:C:299:LEU:HD13	1:C:378:LEU:HD11	2.03	0.41
1:C:310:LYS:HD3	1:C:352:ALA:HB2	2.03	0.41
1:C:684:VAL:HG12	1:C:781:VAL:HG13	2.03	0.41
1:C:954:LYS:HB2	1:C:971:ASP:HB2	2.03	0.41
1:C:3900:UNK:O	1:C:3901:UNK:C	2.69	0.41
1:C:4645:UNK:O	1:C:4648:UNK:N	2.54	0.41
1:C:4818:UNK:N	1:C:4821:UNK:CB	2.73	0.41
1:C:5016:UNK:O	1:C:5017:UNK:C	2.69	0.41
1:D:90:VAL:HB	1:D:91:GLU:CD	2.41	0.41
1:D:213:TYR:CD1	1:D:337:PRO:HB2	2.55	0.41
1:D:424:LYS:NZ	1:D:506:TYR:CE1	2.89	0.41
1:D:671:VAL:HA	1:D:787:VAL:HG12	2.03	0.41
1:D:954:LYS:HB2	1:D:971:ASP:HB2	2.03	0.41
1:D:1817:UNK:O	1:D:1818:UNK:CB	2.69	0.41
1:D:3985:UNK:O	1:D:3988:UNK:CB	2.69	0.41
1:D:4797:UNK:C	1:D:4801:UNK:O	2.68	0.41
1:D:4818:UNK:N	1:D:4821:UNK:CB	2.73	0.41
1:B:728:ARG:NH2	1:B:1119:GLU:HA	2.35	0.41
1:B:3204:UNK:O	1:B:3207:UNK:CB	2.69	0.41
1:C:242:ARG:HB2	1:C:289:ARG:HH12	1.85	0.41
1:C:341:TYR:HD1	1:C:390:LEU:O	2.04	0.41
1:C:514:SER:O	1:C:518:ILE:HG13	2.20	0.41
1:C:567:UNK:O	1:C:568:UNK:C	2.69	0.41
1:C:1000:ARG:NH2	1:C:1016:ARG:O	2.47	0.41
1:D:1495:VAL:N	1:D:1540:PHE:CE1	2.89	0.41
1:A:575:UNK:O	1:A:579:UNK:CB	2.69	0.40
1:A:728:ARG:NH2	1:A:1119:GLU:HA	2.35	0.40
1:A:773:LEU:HA	1:A:777:PHE:HZ	1.83	0.40
1:A:1817:UNK:O	1:A:1818:UNK:CB	2.69	0.40
1:A:3802:UNK:O	1:A:3803:UNK:C	2.70	0.40
1:B:411:TYR:OH	1:B:445:LEU:HD12	2.21	0.40
1:B:544:UNK:O	1:B:547:UNK:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1495:VAL:N	1:B:1540:PHE:CE1	2.89	0.40
1:C:575:UNK:O	1:C:579:UNK:CB	2.69	0.40
1:C:998:ARG:CD	1:C:999:ASP:CG	2.76	0.40
1:C:4232:UNK:O	1:C:4233:UNK:N	2.54	0.40
1:C:4885:UNK:O	1:D:4585:UNK:O	2.14	0.40
1:D:954:LYS:HZ2	1:D:955:LEU:HD11	1.86	0.40
1:D:1131:ARG:HD3	1:D:1139:PHE:HB2	2.04	0.40
1:D:4983:UNK:O	1:D:4984:UNK:C	2.69	0.40
1:A:1444:GLU:N	1:A:1445:PRO:CA	2.82	0.40
1:A:3204:UNK:O	1:A:3207:UNK:CB	2.69	0.40
1:A:3982:UNK:O	1:A:3986:UNK:CB	2.70	0.40
1:B:166:GLY:O	1:C:384:MET:SD	2.79	0.40
1:B:424:LYS:NZ	1:B:506:TYR:CE1	2.90	0.40
1:B:424:LYS:HZ3	1:B:505:GLU:HB2	1.81	0.40
1:B:671:VAL:HA	1:B:787:VAL:HG12	2.03	0.40
1:B:1022:VAL:HG21	1:B:1027:LEU:HD23	2.02	0.40
1:B:3802:UNK:O	1:B:3803:UNK:C	2.70	0.40
1:C:286:THR:HG21	1:C:481:GLU:OE2	2.20	0.40
1:C:411:TYR:OH	1:C:445:LEU:HD12	2.21	0.40
1:C:4983:UNK:O	1:C:4984:UNK:C	2.69	0.40
1:D:77:ALA:O	1:D:80:GLU:CG	2.70	0.40
1:D:165:VAL:HG21	1:D:204:PRO:HG3	2.03	0.40
1:D:411:TYR:OH	1:D:445:LEU:HD12	2.21	0.40
1:D:1476:MET:HE3	1:D:1516:ILE:HD13	1.98	0.40
1:D:3305:UNK:O	1:D:3308:UNK:CB	2.68	0.40
1:A:75:VAL:CG1	1:A:76:ARG:N	2.73	0.40
1:A:78:LEU:HD13	1:A:106:ALA:N	2.36	0.40
1:A:299:LEU:HD13	1:A:378:LEU:HD11	2.03	0.40
1:A:1001:VAL:CA	1:A:1005:TRP:CE2	3.01	0.40
1:A:1470:ARG:HG3	1:A:1497:GLY:HA2	2.02	0.40
1:B:310:LYS:HD3	1:B:352:ALA:HB2	2.03	0.40
1:B:576:UNK:CA	1:B:579:UNK:CB	2.92	0.40
1:B:3643:UNK:O	1:B:3644:UNK:C	2.70	0.40
1:B:4120:UNK:O	1:B:4121:UNK:CB	2.70	0.40
1:B:4142:UNK:O	1:B:4145:UNK:CB	2.70	0.40
1:C:77:ALA:O	1:C:80:GLU:CG	2.70	0.40
1:C:166:GLY:O	1:D:384:MET:SD	2.79	0.40
1:C:321:GLU:HG2	1:C:323:LEU:HD12	2.03	0.40
1:C:855:PRO:HG3	1:C:994:ASN:CA	2.50	0.40
1:C:1131:ARG:HD3	1:C:1139:PHE:HB2	2.04	0.40
1:C:4142:UNK:O	1:C:4145:UNK:CB	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:4785:UNK:O	1:C:4788:UNK:N	2.54	0.40
1:D:206:CYS:HB3	1:D:271:GLY:HA3	2.02	0.40
1:D:1007:TYR:HE1	1:D:1015:ALA:C	2.25	0.40
1:A:265:LEU:HD11	1:A:281:ARG:HH21	1.87	0.40
1:A:773:LEU:HA	1:A:777:PHE:CE1	2.57	0.40
1:A:1141:ARG:HA	1:A:1142:PRO:HD3	1.89	0.40
1:A:3397:UNK:O	1:A:3398:UNK:CB	2.70	0.40
1:A:4120:UNK:O	1:A:4121:UNK:CB	2.70	0.40
1:B:165:VAL:HG21	1:B:204:PRO:HG3	2.03	0.40
1:B:317:ARG:HH12	1:B:322:LYS:CA	2.24	0.40
1:B:870:ILE:HA	1:B:870:ILE:HD13	1.78	0.40
1:B:4983:UNK:O	1:B:4984:UNK:C	2.69	0.40
1:C:74:SER:HB2	1:C:75:VAL:H	1.43	0.40
1:C:424:LYS:NZ	1:C:506:TYR:CD1	2.83	0.40
1:C:1495:VAL:N	1:C:1540:PHE:CE1	2.89	0.40
1:D:728:ARG:NH2	1:D:1119:GLU:HA	2.35	0.40
1:D:1000:ARG:NH2	1:D:1016:ARG:O	2.47	0.40
1:A:328:LYS:H	1:A:328:LYS:HG3	1.73	0.40
1:A:1454:THR:CB	1:A:1455:PRO:CD	2.96	0.40
1:A:3421:UNK:O	1:A:3422:UNK:CB	2.70	0.40
1:A:4112:UNK:O	1:A:4115:UNK:CB	2.70	0.40
1:A:4972:UNK:O	1:A:4975:UNK:CB	2.70	0.40
1:B:265:LEU:HD11	1:B:281:ARG:HH21	1.87	0.40
1:B:1437:VAL:N	1:B:1517:GLY:HA2	2.35	0.40
1:B:1454:THR:CB	1:B:1455:PRO:CD	2.96	0.40
1:B:2650:UNK:O	1:B:2651:UNK:CB	2.70	0.40
1:B:4645:UNK:O	1:B:4648:UNK:N	2.54	0.40
1:C:317:ARG:HH12	1:C:322:LYS:CA	2.24	0.40
1:C:956:PRO:CD	1:C:956:PRO:O	2.70	0.40
1:C:988:LEU:O	1:C:988:LEU:HG	2.21	0.40
1:C:1007:TYR:HE1	1:C:1015:ALA:C	2.25	0.40
1:C:3982:UNK:O	1:C:3986:UNK:CB	2.70	0.40
1:C:4120:UNK:O	1:C:4121:UNK:CB	2.70	0.40
1:C:4972:UNK:O	1:C:4975:UNK:CB	2.70	0.40
1:D:988:LEU:O	1:D:988:LEU:HG	2.21	0.40
1:D:2441:UNK:O	1:D:2442:UNK:CB	2.70	0.40
1:D:3888:UNK:O	1:D:3889:UNK:C	2.70	0.40
1:D:4113:UNK:HA	1:D:4116:UNK:CA	2.48	0.40
1:D:4142:UNK:O	1:D:4145:UNK:CB	2.70	0.40
1:D:4859:UNK:O	1:D:4860:UNK:CB	2.70	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	1280/5037 (25%)	1177 (92%)	70 (6%)	33 (3%)	5	31
1	B	1280/5037 (25%)	1177 (92%)	70 (6%)	33 (3%)	5	31
1	C	1280/5037 (25%)	1177 (92%)	70 (6%)	33 (3%)	5	31
1	D	1280/5037 (25%)	1177 (92%)	70 (6%)	33 (3%)	5	31
All	All	5120/20148 (25%)	4708 (92%)	280 (6%)	132 (3%)	8	31

All (132) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	98	HIS
1	A	368	ARG
1	A	393	CYS
1	A	425	PRO
1	A	426	ARG
1	A	456	SER
1	A	507	ALA
1	A	774	ASP
1	A	957	LYS
1	A	1022	VAL
1	A	1023	PRO
1	A	1196	PRO
1	B	98	HIS
1	B	368	ARG
1	B	393	CYS
1	B	425	PRO
1	B	426	ARG
1	B	456	SER
1	B	507	ALA
1	B	774	ASP
1	B	957	LYS
1	B	1022	VAL

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Mol	Chain	Res	Type
1	B	1023	PRO
1	B	1196	PRO
1	C	98	HIS
1	C	368	ARG
1	C	393	CYS
1	C	425	PRO
1	C	426	ARG
1	C	456	SER
1	C	507	ALA
1	C	774	ASP
1	C	957	LYS
1	C	1022	VAL
1	C	1023	PRO
1	C	1196	PRO
1	D	98	HIS
1	D	368	ARG
1	D	393	CYS
1	D	425	PRO
1	D	426	ARG
1	D	456	SER
1	D	507	ALA
1	D	774	ASP
1	D	957	LYS
1	D	1022	VAL
1	D	1023	PRO
1	D	1196	PRO
1	A	1137	GLU
1	B	1137	GLU
1	C	1137	GLU
1	D	1137	GLU
1	A	226	HIS
1	A	431	PRO
1	A	500	ALA
1	A	956	PRO
1	A	1537	ASN
1	B	226	HIS
1	B	431	PRO
1	B	500	ALA
1	B	956	PRO
1	B	1537	ASN
1	C	226	HIS
1	C	431	PRO

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Mol	Chain	Res	Type
1	C	500	ALA
1	C	956	PRO
1	C	1537	ASN
1	D	226	HIS
1	D	431	PRO
1	D	500	ALA
1	D	956	PRO
1	D	1537	ASN
1	A	126	SER
1	A	674	PHE
1	A	726	VAL
1	A	728	ARG
1	A	905	PRO
1	A	1183	GLU
1	A	1555	LEU
1	B	126	SER
1	B	674	PHE
1	B	726	VAL
1	B	728	ARG
1	B	905	PRO
1	B	1183	GLU
1	B	1555	LEU
1	C	126	SER
1	C	674	PHE
1	C	726	VAL
1	C	728	ARG
1	C	905	PRO
1	C	1183	GLU
1	C	1555	LEU
1	D	126	SER
1	D	674	PHE
1	D	726	VAL
1	D	728	ARG
1	D	905	PRO
1	D	1183	GLU
1	D	1555	LEU
1	A	30	LYS
1	A	367	LEU
1	A	461	HIS
1	B	30	LYS
1	B	367	LEU
1	B	461	HIS

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Mol	Chain	Res	Type
1	C	30	LYS
1	C	367	LEU
1	C	461	HIS
1	D	30	LYS
1	D	367	LEU
1	D	461	HIS
1	A	373	LYS
1	A	437	PRO
1	B	373	LYS
1	B	437	PRO
1	C	373	LYS
1	C	437	PRO
1	D	373	LYS
1	D	437	PRO
1	A	430	PRO
1	B	430	PRO
1	C	430	PRO
1	D	225	GLY
1	D	430	PRO
1	A	225	GLY
1	B	225	GLY
1	C	225	GLY
1	A	89	GLY
1	B	89	GLY
1	C	89	GLY
1	D	89	GLY

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	1112/1410 (79%)	1056 (95%)	56 (5%)	24 49
1	B	1112/1410 (79%)	1056 (95%)	56 (5%)	24 49
1	C	1112/1410 (79%)	1056 (95%)	56 (5%)	24 49
1	D	1112/1410 (79%)	1056 (95%)	56 (5%)	24 49

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	4448/5640 (79%)	4224 (95%)	224 (5%)	28 49

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

Mol	Chain	Res	Type
1	A	9	ASP
1	A	10	GLU
1	A	11	VAL
1	A	12	GLN
1	A	74	SER
1	A	76	ARG
1	A	79	GLN
1	A	81	MET
1	A	84	ASN
1	A	86	VAL
1	A	87	GLU
1	A	90	VAL
1	A	94	GLN
1	A	139	GLU
1	A	156	GLN
1	A	300	VAL
1	A	319	SER
1	A	321	GLU
1	A	323	LEU
1	A	324	ASP
1	A	328	LYS
1	A	329	ARG
1	A	330	ASP
1	A	332	GLU
1	A	338	GLU
1	A	365	LYS
1	A	367	LEU
1	A	368	ARG
1	A	369	LEU
1	A	372	LEU
1	A	373	LYS
1	A	422	SER
1	A	424	LYS
1	A	426	ARG
1	A	443	LEU
1	A	460	GLN
1	A	505	GLU

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Mol	Chain	Res	Type
1	A	522	LEU
1	A	870	ILE
1	A	993	HIS
1	A	994	ASN
1	A	995	VAL
1	A	996	TRP
1	A	998	ARG
1	A	1000	ARG
1	A	1003	GLN
1	A	1006	SER
1	A	1008	SER
1	A	1016	ARG
1	A	1017	ARG
1	A	1018	ASN
1	A	1020	ARG
1	A	1021	LEU
1	A	1078	GLU
1	A	2738	ARG
1	A	2743	LEU
1	B	9	ASP
1	B	10	GLU
1	B	11	VAL
1	B	12	GLN
1	B	74	SER
1	B	76	ARG
1	B	79	GLN
1	B	81	MET
1	B	84	ASN
1	B	86	VAL
1	B	87	GLU
1	B	90	VAL
1	B	94	GLN
1	B	139	GLU
1	B	156	GLN
1	B	300	VAL
1	B	319	SER
1	B	321	GLU
1	B	323	LEU
1	B	324	ASP
1	B	328	LYS
1	B	329	ARG
1	B	330	ASP

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Mol	Chain	Res	Type
1	B	332	GLU
1	B	338	GLU
1	B	365	LYS
1	B	367	LEU
1	B	368	ARG
1	B	369	LEU
1	B	372	LEU
1	B	373	LYS
1	B	422	SER
1	B	424	LYS
1	B	426	ARG
1	B	443	LEU
1	B	460	GLN
1	B	505	GLU
1	B	522	LEU
1	B	870	ILE
1	B	993	HIS
1	B	994	ASN
1	B	995	VAL
1	B	996	TRP
1	B	998	ARG
1	B	1000	ARG
1	B	1003	GLN
1	B	1006	SER
1	B	1008	SER
1	B	1016	ARG
1	B	1017	ARG
1	B	1018	ASN
1	B	1020	ARG
1	B	1021	LEU
1	B	1078	GLU
1	B	2738	ARG
1	B	2743	LEU
1	C	9	ASP
1	C	10	GLU
1	C	11	VAL
1	C	12	GLN
1	C	74	SER
1	C	76	ARG
1	C	79	GLN
1	C	81	MET
1	C	84	ASN

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Mol	Chain	Res	Type
1	C	86	VAL
1	C	87	GLU
1	C	90	VAL
1	C	94	GLN
1	C	139	GLU
1	C	156	GLN
1	C	300	VAL
1	C	319	SER
1	C	321	GLU
1	C	323	LEU
1	C	324	ASP
1	C	328	LYS
1	C	329	ARG
1	C	330	ASP
1	C	332	GLU
1	C	338	GLU
1	C	365	LYS
1	C	367	LEU
1	C	368	ARG
1	C	369	LEU
1	C	372	LEU
1	C	373	LYS
1	C	422	SER
1	C	424	LYS
1	C	426	ARG
1	C	443	LEU
1	C	460	GLN
1	C	505	GLU
1	C	522	LEU
1	C	870	ILE
1	C	993	HIS
1	C	994	ASN
1	C	995	VAL
1	C	996	TRP
1	C	998	ARG
1	C	1000	ARG
1	C	1003	GLN
1	C	1006	SER
1	C	1008	SER
1	C	1016	ARG
1	C	1017	ARG
1	C	1018	ASN

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Mol	Chain	Res	Type
1	C	1020	ARG
1	C	1021	LEU
1	C	1078	GLU
1	C	2738	ARG
1	C	2743	LEU
1	D	9	ASP
1	D	10	GLU
1	D	11	VAL
1	D	12	GLN
1	D	74	SER
1	D	76	ARG
1	D	79	GLN
1	D	81	MET
1	D	84	ASN
1	D	86	VAL
1	D	87	GLU
1	D	90	VAL
1	D	94	GLN
1	D	139	GLU
1	D	156	GLN
1	D	300	VAL
1	D	319	SER
1	D	321	GLU
1	D	323	LEU
1	D	324	ASP
1	D	328	LYS
1	D	329	ARG
1	D	330	ASP
1	D	332	GLU
1	D	338	GLU
1	D	365	LYS
1	D	367	LEU
1	D	368	ARG
1	D	369	LEU
1	D	372	LEU
1	D	373	LYS
1	D	422	SER
1	D	424	LYS
1	D	426	ARG
1	D	443	LEU
1	D	460	GLN
1	D	505	GLU

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Mol	Chain	Res	Type
1	D	522	LEU
1	D	870	ILE
1	D	993	HIS
1	D	994	ASN
1	D	995	VAL
1	D	996	TRP
1	D	998	ARG
1	D	1000	ARG
1	D	1003	GLN
1	D	1006	SER
1	D	1008	SER
1	D	1016	ARG
1	D	1017	ARG
1	D	1018	ASN
1	D	1020	ARG
1	D	1021	LEU
1	D	1078	GLU
1	D	2738	ARG
1	D	2743	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (98) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	79	GLN
1	A	84	ASN
1	A	94	GLN
1	A	111	HIS
1	A	151	HIS
1	A	197	GLN
1	A	273	HIS
1	A	284	HIS
1	A	350	HIS
1	A	380	GLN
1	A	395	GLN
1	A	412	ASN
1	A	413	GLN
1	A	475	GLN
1	A	479	GLN
1	A	879	HIS
1	A	911	HIS
1	A	963	ASN
1	A	1035	ASN

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Mol	Chain	Res	Type
1	A	1420	ASN
1	A	1429	ASN
1	A	1558	HIS
1	A	2780	ASN
1	A	2877	GLN
1	B	79	GLN
1	B	84	ASN
1	B	94	GLN
1	B	111	HIS
1	B	151	HIS
1	B	197	GLN
1	B	226	HIS
1	B	273	HIS
1	B	284	HIS
1	B	350	HIS
1	B	380	GLN
1	B	395	GLN
1	B	412	ASN
1	B	413	GLN
1	B	475	GLN
1	B	479	GLN
1	B	879	HIS
1	B	911	HIS
1	B	963	ASN
1	B	1035	ASN
1	B	1420	ASN
1	B	1558	HIS
1	B	2780	ASN
1	B	2877	GLN
1	C	79	GLN
1	C	84	ASN
1	C	94	GLN
1	C	111	HIS
1	C	151	HIS
1	C	197	GLN
1	C	226	HIS
1	C	273	HIS
1	C	284	HIS
1	C	350	HIS
1	C	380	GLN
1	C	395	GLN
1	C	412	ASN

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Mol	Chain	Res	Type
1	C	413	GLN
1	C	475	GLN
1	C	479	GLN
1	C	879	HIS
1	C	911	HIS
1	C	963	ASN
1	C	1035	ASN
1	C	1201	HIS
1	C	1420	ASN
1	C	1558	HIS
1	C	2780	ASN
1	C	2877	GLN
1	D	79	GLN
1	D	84	ASN
1	D	94	GLN
1	D	111	HIS
1	D	151	HIS
1	D	197	GLN
1	D	226	HIS
1	D	273	HIS
1	D	284	HIS
1	D	350	HIS
1	D	380	GLN
1	D	395	GLN
1	D	412	ASN
1	D	413	GLN
1	D	475	GLN
1	D	479	GLN
1	D	879	HIS
1	D	911	HIS
1	D	963	ASN
1	D	1035	ASN
1	D	1420	ASN
1	D	1429	ASN
1	D	1558	HIS
1	D	2780	ASN
1	D	2877	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	95
1	B	95
1	C	95
1	D	95

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	1863:UNK	C	1935:UNK	N	107.77
1	B	1863:UNK	C	1935:UNK	N	107.77
1	C	1863:UNK	C	1935:UNK	N	107.77
1	D	1863:UNK	C	1935:UNK	N	107.77
1	A	2939:ARG	C	2953:UNK	N	48.57
1	B	2939:ARG	C	2953:UNK	N	48.57
1	C	2939:ARG	C	2953:UNK	N	48.57
1	D	2939:ARG	C	2953:UNK	N	48.57
1	B	3872:UNK	C	3874:UNK	N	28.32
1	D	3872:UNK	C	3874:UNK	N	28.32
1	A	3872:UNK	C	3874:UNK	N	28.31
1	C	3872:UNK	C	3874:UNK	N	28.31
1	A	3444:UNK	C	3445:UNK	N	27.42

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	3444:UNK	C	3445:UNK	N	27.42
1	C	3444:UNK	C	3445:UNK	N	27.42
1	D	3444:UNK	C	3445:UNK	N	27.42
1	C	2715:UNK	C	2734:ASN	N	26.32
1	A	2715:UNK	C	2734:ASN	N	26.31
1	B	2715:UNK	C	2734:ASN	N	26.31
1	D	2715:UNK	C	2734:ASN	N	26.31
1	A	3217:UNK	C	3220:UNK	N	24.93
1	C	3217:UNK	C	3220:UNK	N	24.93
1	D	3217:UNK	C	3220:UNK	N	24.93
1	B	3217:UNK	C	3220:UNK	N	24.92
1	A	1948:UNK	C	1953:UNK	N	23.37
1	B	1948:UNK	C	1953:UNK	N	23.37
1	C	1948:UNK	C	1953:UNK	N	23.37
1	D	1948:UNK	C	1953:UNK	N	23.37
1	B	1676:UNK	C	1705:UNK	N	23.12
1	A	1676:UNK	C	1705:UNK	N	23.11
1	C	1676:UNK	C	1705:UNK	N	23.11
1	D	1676:UNK	C	1705:UNK	N	23.11
1	A	592:UNK	C	649:PHE	N	22.95
1	B	592:UNK	C	649:PHE	N	22.95
1	C	592:UNK	C	649:PHE	N	22.95
1	D	592:UNK	C	649:PHE	N	22.95
1	A	1977:UNK	C	2003:UNK	N	21.22
1	B	1977:UNK	C	2003:UNK	N	21.22
1	C	1977:UNK	C	2003:UNK	N	21.22
1	D	1977:UNK	C	2003:UNK	N	21.22
1	A	4272:UNK	C	4545:UNK	N	21.18
1	B	4272:UNK	C	4545:UNK	N	21.18
1	C	4272:UNK	C	4545:UNK	N	21.18
1	D	4272:UNK	C	4545:UNK	N	21.18
1	A	4741:UNK	C	4770:UNK	N	20.48
1	B	4741:UNK	C	4770:UNK	N	20.48
1	C	4741:UNK	C	4770:UNK	N	20.48
1	D	4741:UNK	C	4770:UNK	N	20.48
1	A	3653:UNK	C	3656:UNK	N	19.53
1	B	3653:UNK	C	3656:UNK	N	19.53
1	C	3653:UNK	C	3656:UNK	N	19.53
1	D	3653:UNK	C	3656:UNK	N	19.53
1	A	2442:UNK	C	2450:UNK	N	19.47
1	B	2442:UNK	C	2450:UNK	N	19.47
1	C	2442:UNK	C	2450:UNK	N	19.47

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	2442:UNK	C	2450:UNK	N	19.47
1	A	2569:UNK	C	2571:UNK	N	18.85
1	B	2569:UNK	C	2571:UNK	N	18.85
1	C	2569:UNK	C	2571:UNK	N	18.85
1	D	2569:UNK	C	2571:UNK	N	18.85
1	A	4585:UNK	C	4644:UNK	N	18.37
1	B	4585:UNK	C	4644:UNK	N	18.37
1	C	4585:UNK	C	4644:UNK	N	18.37
1	D	4585:UNK	C	4644:UNK	N	18.37
1	A	2397:UNK	C	2420:UNK	N	17.23
1	B	2397:UNK	C	2420:UNK	N	17.23
1	C	2397:UNK	C	2420:UNK	N	17.23
1	D	2397:UNK	C	2420:UNK	N	17.23
1	A	2474:UNK	C	2498:UNK	N	16.81
1	B	2474:UNK	C	2498:UNK	N	16.81
1	C	2474:UNK	C	2498:UNK	N	16.81
1	D	2474:UNK	C	2498:UNK	N	16.81
1	A	3589:UNK	C	3592:UNK	N	16.51
1	B	3589:UNK	C	3592:UNK	N	16.51
1	C	3589:UNK	C	3592:UNK	N	16.51
1	D	3589:UNK	C	3592:UNK	N	16.51
1	A	2109:UNK	C	2114:UNK	N	16.23
1	B	2109:UNK	C	2114:UNK	N	16.23
1	C	2109:UNK	C	2114:UNK	N	16.23
1	D	2109:UNK	C	2114:UNK	N	16.23
1	A	3734:UNK	C	3766:UNK	N	15.99
1	B	3734:UNK	C	3766:UNK	N	15.99
1	C	3734:UNK	C	3766:UNK	N	15.99
1	D	3734:UNK	C	3766:UNK	N	15.99
1	A	3625:UNK	C	3628:UNK	N	15.59
1	B	3625:UNK	C	3628:UNK	N	15.59
1	C	3625:UNK	C	3628:UNK	N	15.59
1	D	3625:UNK	C	3628:UNK	N	15.59
1	A	2510:UNK	C	2515:UNK	N	15.37
1	B	2510:UNK	C	2515:UNK	N	15.37
1	C	2510:UNK	C	2515:UNK	N	15.37
1	D	2510:UNK	C	2515:UNK	N	15.37
1	A	3014:UNK	C	3036:UNK	N	15.36
1	B	3014:UNK	C	3036:UNK	N	15.36
1	C	3014:UNK	C	3036:UNK	N	15.36
1	D	3014:UNK	C	3036:UNK	N	15.36
1	A	4688:UNK	C	4702:UNK	N	15.17

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	4688:UNK	C	4702:UNK	N	15.17
1	C	4688:UNK	C	4702:UNK	N	15.17
1	D	4688:UNK	C	4702:UNK	N	15.17
1	A	2344:UNK	C	2347:UNK	N	15.07
1	B	2344:UNK	C	2347:UNK	N	15.07
1	C	2344:UNK	C	2347:UNK	N	15.07
1	D	2344:UNK	C	2347:UNK	N	15.07
1	D	4154:UNK	C	4160:UNK	N	14.95
1	A	4154:UNK	C	4160:UNK	N	14.94
1	B	4154:UNK	C	4160:UNK	N	14.94
1	C	4154:UNK	C	4160:UNK	N	14.94
1	A	3714:UNK	C	3715:UNK	N	14.51
1	B	3714:UNK	C	3715:UNK	N	14.51
1	C	3714:UNK	C	3715:UNK	N	14.51
1	D	3714:UNK	C	3715:UNK	N	14.51
1	A	2215:UNK	C	2221:UNK	N	14.24
1	B	2215:UNK	C	2221:UNK	N	14.24
1	C	2215:UNK	C	2221:UNK	N	14.24
1	D	2215:UNK	C	2221:UNK	N	14.24
1	A	2618:UNK	C	2633:UNK	N	13.98
1	B	2618:UNK	C	2633:UNK	N	13.98
1	D	2618:UNK	C	2633:UNK	N	13.98
1	C	2618:UNK	C	2633:UNK	N	13.97
1	A	3230:UNK	C	3233:UNK	N	13.83
1	C	3230:UNK	C	3233:UNK	N	13.83
1	D	3230:UNK	C	3233:UNK	N	13.83
1	B	3230:UNK	C	3233:UNK	N	13.82
1	A	2145:UNK	C	2149:UNK	N	13.72
1	A	3854:UNK	C	3857:UNK	N	13.72
1	B	2145:UNK	C	2149:UNK	N	13.72
1	B	3854:UNK	C	3857:UNK	N	13.72
1	C	2145:UNK	C	2149:UNK	N	13.72
1	C	3854:UNK	C	3857:UNK	N	13.72
1	D	2145:UNK	C	2149:UNK	N	13.72
1	D	3854:UNK	C	3857:UNK	N	13.72
1	A	3283:UNK	C	3288:UNK	N	13.70
1	B	3283:UNK	C	3288:UNK	N	13.70
1	C	3283:UNK	C	3288:UNK	N	13.70
1	D	3283:UNK	C	3288:UNK	N	13.70
1	A	3102:UNK	C	3133:UNK	N	13.38
1	B	3102:UNK	C	3133:UNK	N	13.38
1	C	3102:UNK	C	3133:UNK	N	13.38

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	3102:UNK	C	3133:UNK	N	13.38
1	A	4993:UNK	C	5006:UNK	N	13.05
1	B	4993:UNK	C	5006:UNK	N	13.05
1	C	4993:UNK	C	5006:UNK	N	13.05
1	D	4993:UNK	C	5006:UNK	N	13.05
1	A	3935:UNK	C	3941:UNK	N	12.96
1	B	3935:UNK	C	3941:UNK	N	12.96
1	C	3935:UNK	C	3941:UNK	N	12.96
1	D	3935:UNK	C	3941:UNK	N	12.96
1	A	2173:UNK	C	2195:UNK	N	12.90
1	B	2173:UNK	C	2195:UNK	N	12.90
1	C	2173:UNK	C	2195:UNK	N	12.90
1	D	2173:UNK	C	2195:UNK	N	12.90
1	B	1827:UNK	C	1835:UNK	N	12.82
1	A	1827:UNK	C	1835:UNK	N	12.81
1	C	1827:UNK	C	1835:UNK	N	12.81
1	D	1827:UNK	C	1835:UNK	N	12.81
1	A	3151:UNK	C	3154:UNK	N	12.62
1	A	3483:UNK	C	3485:UNK	N	12.62
1	B	3151:UNK	C	3154:UNK	N	12.62
1	B	3483:UNK	C	3485:UNK	N	12.62
1	C	3151:UNK	C	3154:UNK	N	12.62
1	C	3483:UNK	C	3485:UNK	N	12.62
1	D	3151:UNK	C	3154:UNK	N	12.62
1	D	3483:UNK	C	3485:UNK	N	12.62
1	A	2046:UNK	C	2061:UNK	N	12.56
1	A	3057:UNK	C	3085:UNK	N	12.56
1	B	2046:UNK	C	2061:UNK	N	12.56
1	B	3057:UNK	C	3085:UNK	N	12.56
1	C	2046:UNK	C	2061:UNK	N	12.56
1	C	3057:UNK	C	3085:UNK	N	12.56
1	D	2046:UNK	C	2061:UNK	N	12.56
1	D	3057:UNK	C	3085:UNK	N	12.56
1	A	4031:UNK	C	4040:UNK	N	12.20
1	B	4031:UNK	C	4040:UNK	N	12.20
1	C	4031:UNK	C	4040:UNK	N	12.20
1	D	4031:UNK	C	4040:UNK	N	12.20
1	A	2971:UNK	C	2995:UNK	N	12.12
1	B	2971:UNK	C	2995:UNK	N	12.12
1	C	2971:UNK	C	2995:UNK	N	12.12
1	D	2971:UNK	C	2995:UNK	N	12.12
1	A	3463:UNK	C	3465:UNK	N	12.05

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	3463:UNK	C	3465:UNK	N	12.05
1	C	3463:UNK	C	3465:UNK	N	12.05
1	D	3463:UNK	C	3465:UNK	N	12.05
1	A	2651:UNK	C	2669:UNK	N	11.67
1	B	2651:UNK	C	2669:UNK	N	11.67
1	C	2651:UNK	C	2669:UNK	N	11.67
1	D	2651:UNK	C	2669:UNK	N	11.67
1	A	2245:UNK	C	2285:UNK	N	11.17
1	B	2245:UNK	C	2285:UNK	N	11.17
1	C	2245:UNK	C	2285:UNK	N	11.17
1	D	2245:UNK	C	2285:UNK	N	11.17
1	A	4246:UNK	C	4252:UNK	N	11.01
1	B	4246:UNK	C	4252:UNK	N	11.01
1	C	4246:UNK	C	4252:UNK	N	11.01
1	D	4246:UNK	C	4252:UNK	N	11.01
1	A	3610:UNK	C	3612:UNK	N	10.99
1	B	3610:UNK	C	3612:UNK	N	10.99
1	C	3610:UNK	C	3612:UNK	N	10.99
1	D	3610:UNK	C	3612:UNK	N	10.99
1	A	3370:UNK	C	3376:UNK	N	10.83
1	B	3370:UNK	C	3376:UNK	N	10.83
1	C	3370:UNK	C	3376:UNK	N	10.83
1	D	3370:UNK	C	3376:UNK	N	10.83
1	A	3559:UNK	C	3561:UNK	N	10.75
1	B	3559:UNK	C	3561:UNK	N	10.75
1	C	3559:UNK	C	3561:UNK	N	10.75
1	D	3559:UNK	C	3561:UNK	N	10.75
1	A	4860:UNK	C	4884:UNK	N	10.38
1	B	4860:UNK	C	4884:UNK	N	10.38
1	C	4860:UNK	C	4884:UNK	N	10.38
1	D	4860:UNK	C	4884:UNK	N	10.38
1	A	2364:UNK	C	2376:UNK	N	10.04
1	B	2364:UNK	C	2376:UNK	N	10.04
1	C	2364:UNK	C	2376:UNK	N	10.04
1	D	2364:UNK	C	2376:UNK	N	10.04
1	A	2594:UNK	C	2597:UNK	N	9.21
1	B	2594:UNK	C	2597:UNK	N	9.21
1	C	2594:UNK	C	2597:UNK	N	9.21
1	D	2594:UNK	C	2597:UNK	N	9.21
1	A	3803:UNK	C	3804:UNK	N	9.15
1	B	3803:UNK	C	3804:UNK	N	9.15
1	C	3803:UNK	C	3804:UNK	N	9.15

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	3803:UNK	C	3804:UNK	N	9.15
1	A	2534:UNK	C	2546:UNK	N	9.05
1	B	2534:UNK	C	2546:UNK	N	9.05
1	C	2534:UNK	C	2546:UNK	N	9.05
1	D	2534:UNK	C	2546:UNK	N	9.05
1	A	3180:UNK	C	3182:UNK	N	9.04
1	B	3180:UNK	C	3182:UNK	N	9.04
1	C	3180:UNK	C	3182:UNK	N	9.04
1	D	3180:UNK	C	3182:UNK	N	9.04
1	A	4957:UNK	C	4972:UNK	N	8.87
1	B	4957:UNK	C	4972:UNK	N	8.87
1	C	4957:UNK	C	4972:UNK	N	8.87
1	D	4957:UNK	C	4972:UNK	N	8.87
1	A	3840:UNK	C	3842:UNK	N	8.76
1	B	3840:UNK	C	3842:UNK	N	8.76
1	C	3840:UNK	C	3842:UNK	N	8.76
1	D	3840:UNK	C	3842:UNK	N	8.76
1	A	3245:UNK	C	3247:UNK	N	8.58
1	B	3245:UNK	C	3247:UNK	N	8.58
1	C	3245:UNK	C	3247:UNK	N	8.58
1	D	3245:UNK	C	3247:UNK	N	8.58
1	A	2308:UNK	C	2327:UNK	N	8.41
1	B	2308:UNK	C	2327:UNK	N	8.41
1	C	2308:UNK	C	2327:UNK	N	8.41
1	D	2308:UNK	C	2327:UNK	N	8.41
1	A	3422:UNK	C	3425:UNK	N	7.83
1	B	3422:UNK	C	3425:UNK	N	7.83
1	C	3422:UNK	C	3425:UNK	N	7.83
1	D	3422:UNK	C	3425:UNK	N	7.83
1	A	2690:UNK	C	2694:UNK	N	7.71
1	B	2690:UNK	C	2694:UNK	N	7.71
1	C	2690:UNK	C	2694:UNK	N	7.71
1	D	2690:UNK	C	2694:UNK	N	7.71
1	A	4907:UNK	C	4911:UNK	N	7.54
1	B	4907:UNK	C	4911:UNK	N	7.54
1	C	4907:UNK	C	4911:UNK	N	7.54
1	D	4907:UNK	C	4911:UNK	N	7.54
1	A	3698:UNK	C	3700:UNK	N	7.48
1	B	3698:UNK	C	3700:UNK	N	7.48
1	C	3698:UNK	C	3700:UNK	N	7.48
1	D	3698:UNK	C	3700:UNK	N	7.48
1	A	4006:UNK	C	4008:UNK	N	7.43

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	4006:UNK	C	4008:UNK	N	7.43
1	C	4006:UNK	C	4008:UNK	N	7.43
1	D	4006:UNK	C	4008:UNK	N	7.43
1	A	552:UNK	C	553:UNK	N	7.41
1	B	552:UNK	C	553:UNK	N	7.41
1	C	552:UNK	C	553:UNK	N	7.41
1	D	552:UNK	C	553:UNK	N	7.41
1	A	3500:UNK	C	3508:UNK	N	7.40
1	B	3500:UNK	C	3508:UNK	N	7.40
1	C	3500:UNK	C	3508:UNK	N	7.40
1	D	3500:UNK	C	3508:UNK	N	7.40
1	A	2020:UNK	C	2026:UNK	N	7.30
1	B	2020:UNK	C	2026:UNK	N	7.30
1	C	2020:UNK	C	2026:UNK	N	7.30
1	D	2020:UNK	C	2026:UNK	N	7.30
1	A	3821:UNK	C	3825:UNK	N	6.85
1	B	3821:UNK	C	3825:UNK	N	6.85
1	C	3821:UNK	C	3825:UNK	N	6.85
1	D	3821:UNK	C	3825:UNK	N	6.85
1	A	3333:UNK	C	3336:UNK	N	6.72
1	B	3333:UNK	C	3336:UNK	N	6.72
1	C	3333:UNK	C	3336:UNK	N	6.72
1	D	3333:UNK	C	3336:UNK	N	6.72
1	A	4798:UNK	C	4800:UNK	N	6.71
1	B	4798:UNK	C	4800:UNK	N	6.71
1	C	4798:UNK	C	4800:UNK	N	6.71
1	D	4798:UNK	C	4800:UNK	N	6.71
1	B	3889:UNK	C	3891:UNK	N	6.66
1	A	3889:UNK	C	3891:UNK	N	6.65
1	C	3889:UNK	C	3891:UNK	N	6.65
1	D	3889:UNK	C	3891:UNK	N	6.65
1	A	3901:UNK	C	3910:UNK	N	6.54
1	B	3901:UNK	C	3910:UNK	N	6.54
1	C	3901:UNK	C	3910:UNK	N	6.54
1	D	3901:UNK	C	3910:UNK	N	6.54
1	A	2074:UNK	C	2093:UNK	N	6.50
1	B	2074:UNK	C	2093:UNK	N	6.50
1	C	2074:UNK	C	2093:UNK	N	6.50
1	D	2074:UNK	C	2093:UNK	N	6.50
1	A	3785:UNK	C	3793:UNK	N	6.41
1	B	3785:UNK	C	3793:UNK	N	6.41
1	C	3785:UNK	C	3793:UNK	N	6.41

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	D	3785:UNK	C	3793:UNK	N	6.41
1	A	3317:UNK	C	3321:UNK	N	5.85
1	B	3317:UNK	C	3321:UNK	N	5.85
1	C	3317:UNK	C	3321:UNK	N	5.85
1	D	3317:UNK	C	3321:UNK	N	5.85
1	A	1660:UNK	C	1662:UNK	N	5.79
1	C	1660:UNK	C	1662:UNK	N	5.79
1	D	1660:UNK	C	1662:UNK	N	5.79
1	B	1660:UNK	C	1662:UNK	N	5.78
1	A	4815:UNK	C	4818:UNK	N	5.71
1	B	4815:UNK	C	4818:UNK	N	5.71
1	C	4815:UNK	C	4818:UNK	N	5.71
1	D	4815:UNK	C	4818:UNK	N	5.71
1	A	4181:UNK	C	4212:UNK	N	5.70
1	B	4181:UNK	C	4212:UNK	N	5.70
1	C	4181:UNK	C	4212:UNK	N	5.70
1	D	4181:UNK	C	4212:UNK	N	5.70
1	A	4832:UNK	C	4835:UNK	N	5.56
1	B	4832:UNK	C	4835:UNK	N	5.56
1	C	4832:UNK	C	4835:UNK	N	5.56
1	D	4832:UNK	C	4835:UNK	N	5.56
1	A	3266:UNK	C	3268:UNK	N	5.23
1	B	3266:UNK	C	3268:UNK	N	5.23
1	C	3266:UNK	C	3268:UNK	N	5.23
1	D	3266:UNK	C	3268:UNK	N	5.23
1	A	1725:UNK	C	1806:UNK	N	5.21
1	C	1725:UNK	C	1806:UNK	N	5.21
1	D	1725:UNK	C	1806:UNK	N	5.21
1	B	1725:UNK	C	1806:UNK	N	5.20
1	A	4224:UNK	C	4232:UNK	N	5.07
1	B	4224:UNK	C	4232:UNK	N	5.07
1	C	4224:UNK	C	4232:UNK	N	5.07
1	D	4224:UNK	C	4232:UNK	N	5.07
1	A	3350:UNK	C	3352:UNK	N	5.04
1	B	3350:UNK	C	3352:UNK	N	5.04
1	C	3350:UNK	C	3352:UNK	N	5.04
1	D	3350:UNK	C	3352:UNK	N	5.04
1	A	3967:UNK	C	3975:UNK	N	4.68
1	B	3967:UNK	C	3975:UNK	N	4.68
1	C	3967:UNK	C	3975:UNK	N	4.68
1	D	3967:UNK	C	3975:UNK	N	4.68
1	A	4051:UNK	C	4055:UNK	N	4.60

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	4051:UNK	C	4055:UNK	N	4.60
1	C	4051:UNK	C	4055:UNK	N	4.59
1	D	4051:UNK	C	4055:UNK	N	4.59
1	A	3570:UNK	C	3574:UNK	N	3.91
1	B	3570:UNK	C	3574:UNK	N	3.91
1	C	3570:UNK	C	3574:UNK	N	3.91
1	D	3570:UNK	C	3574:UNK	N	3.91
1	A	3398:UNK	C	3400:UNK	N	3.20
1	B	3398:UNK	C	3400:UNK	N	3.20
1	C	3398:UNK	C	3400:UNK	N	3.20
1	D	3398:UNK	C	3400:UNK	N	3.20
1	A	4232:UNK	C	4233:UNK	N	3.13
1	B	4232:UNK	C	4233:UNK	N	3.13
1	C	4232:UNK	C	4233:UNK	N	3.13
1	D	4232:UNK	C	4233:UNK	N	3.13
1	A	4712:UNK	C	4718:UNK	N	3.07
1	B	4712:UNK	C	4718:UNK	N	3.07
1	C	4712:UNK	C	4718:UNK	N	3.07
1	D	4712:UNK	C	4718:UNK	N	3.07
1	A	3445:UNK	C	3447:UNK	N	3.00
1	B	3445:UNK	C	3447:UNK	N	3.00
1	C	3445:UNK	C	3447:UNK	N	3.00
1	D	3445:UNK	C	3447:UNK	N	3.00
1	A	3673:UNK	C	3680:UNK	N	2.72
1	B	3673:UNK	C	3680:UNK	N	2.72
1	C	3673:UNK	C	3680:UNK	N	2.72
1	D	3673:UNK	C	3680:UNK	N	2.72
1	A	2285:UNK	C	2286:UNK	N	2.32
1	B	2285:UNK	C	2286:UNK	N	2.32
1	C	2285:UNK	C	2286:UNK	N	2.32
1	D	2285:UNK	C	2286:UNK	N	2.32

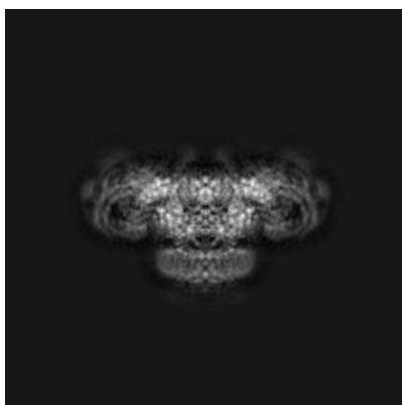
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2751. These allow visual inspection of the internal detail of the map and identification of artifacts.

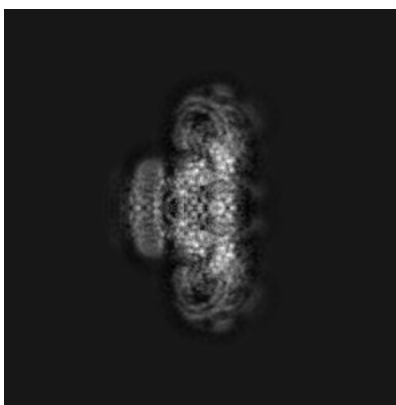
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

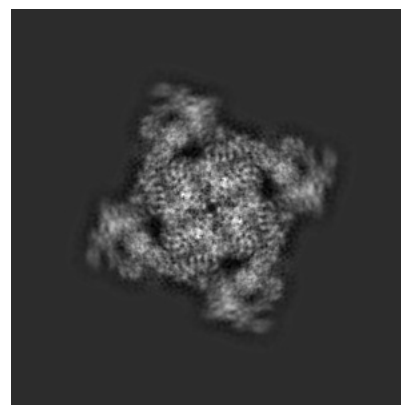
6.1.1 Primary map



X



Y



Z

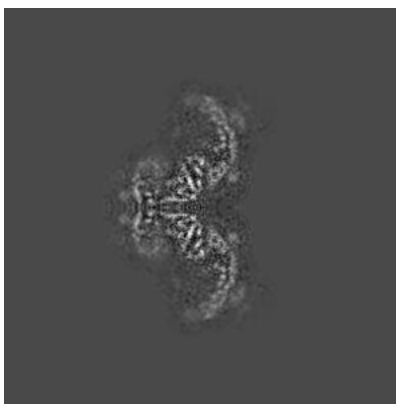
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

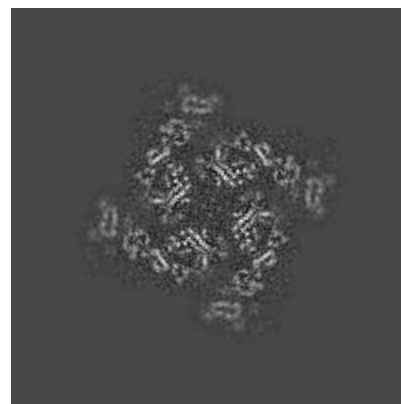
6.2.1 Primary map



X Index: 192



Y Index: 192

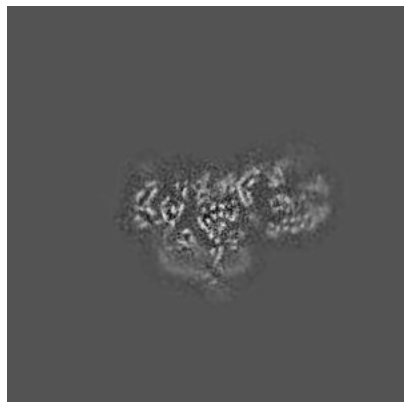


Z Index: 192

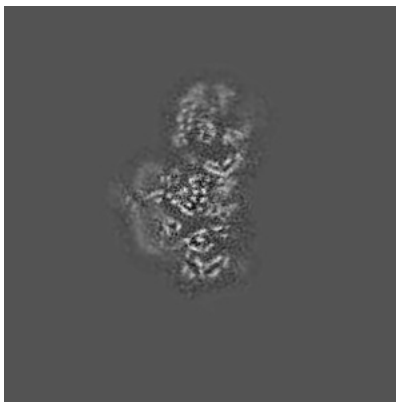
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

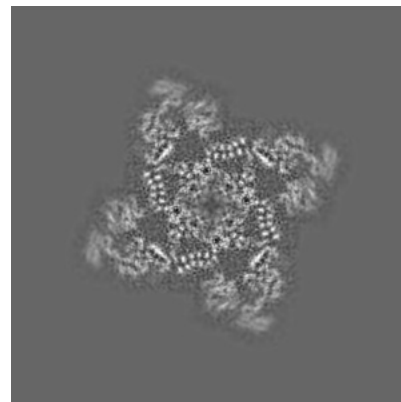
6.3.1 Primary map



X Index: 164



Y Index: 220

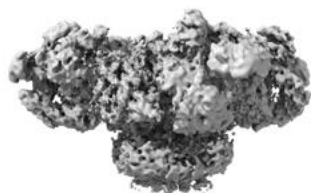


Z Index: 205

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

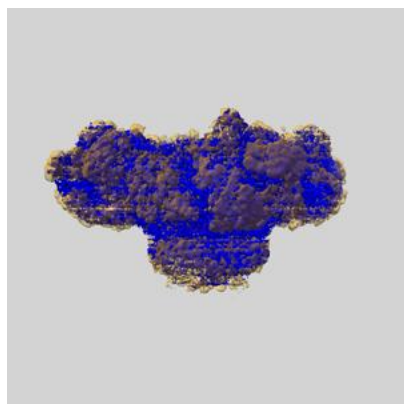
6.5 Mask visualisation [i](#)

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

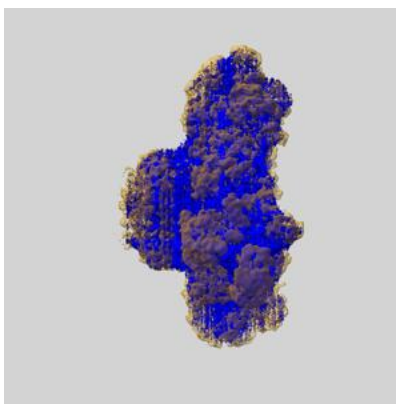
A mask typically either:

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

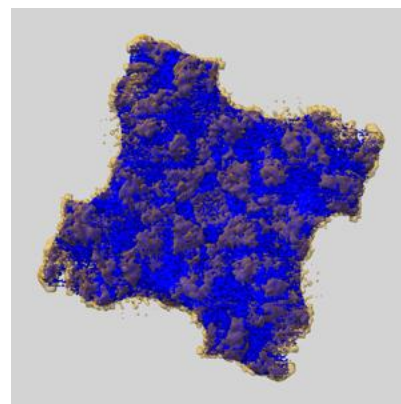
6.5.1 emd_2751_msk.map [i](#)



X



Y

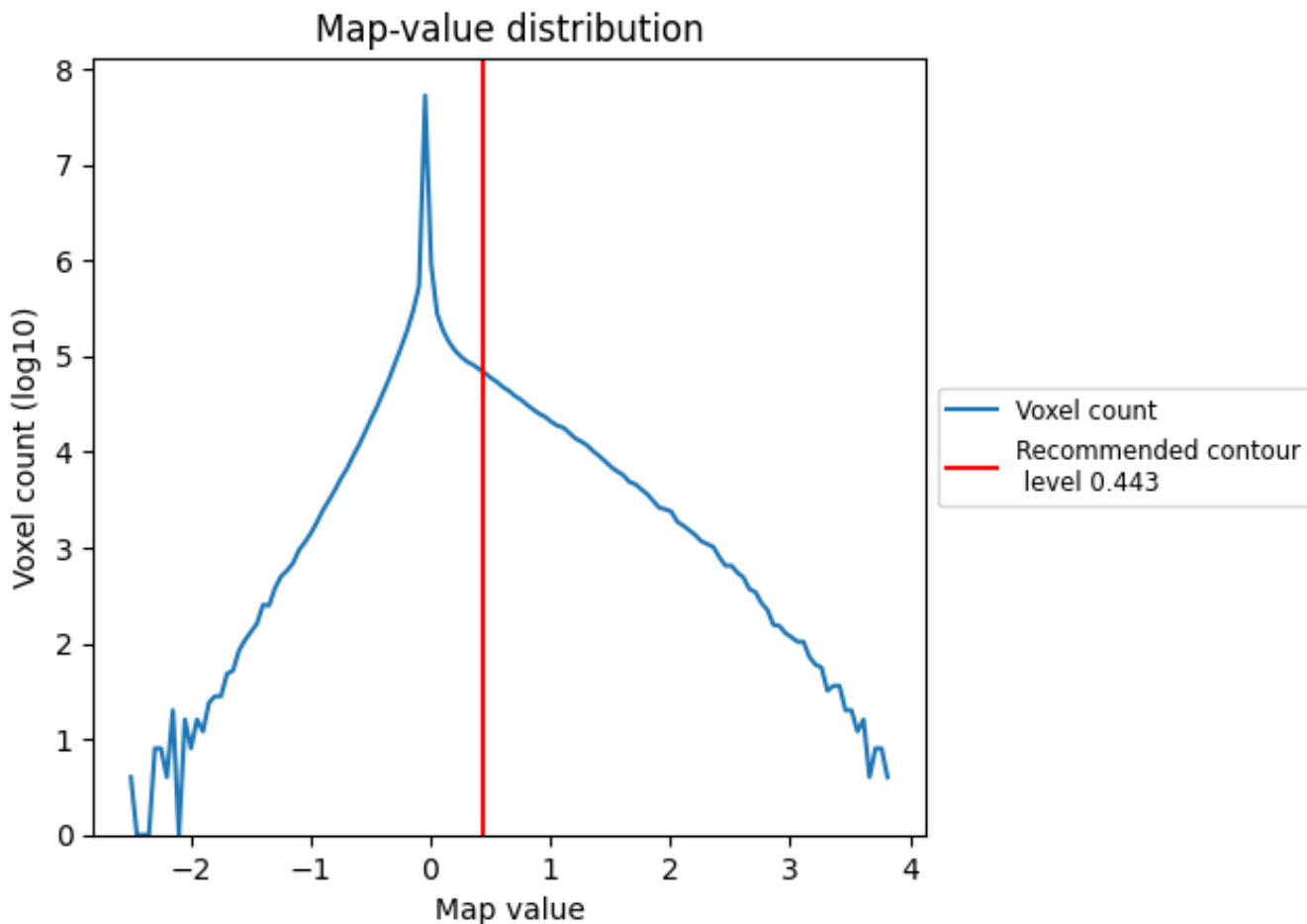


Z

7 Map analysis [i](#)

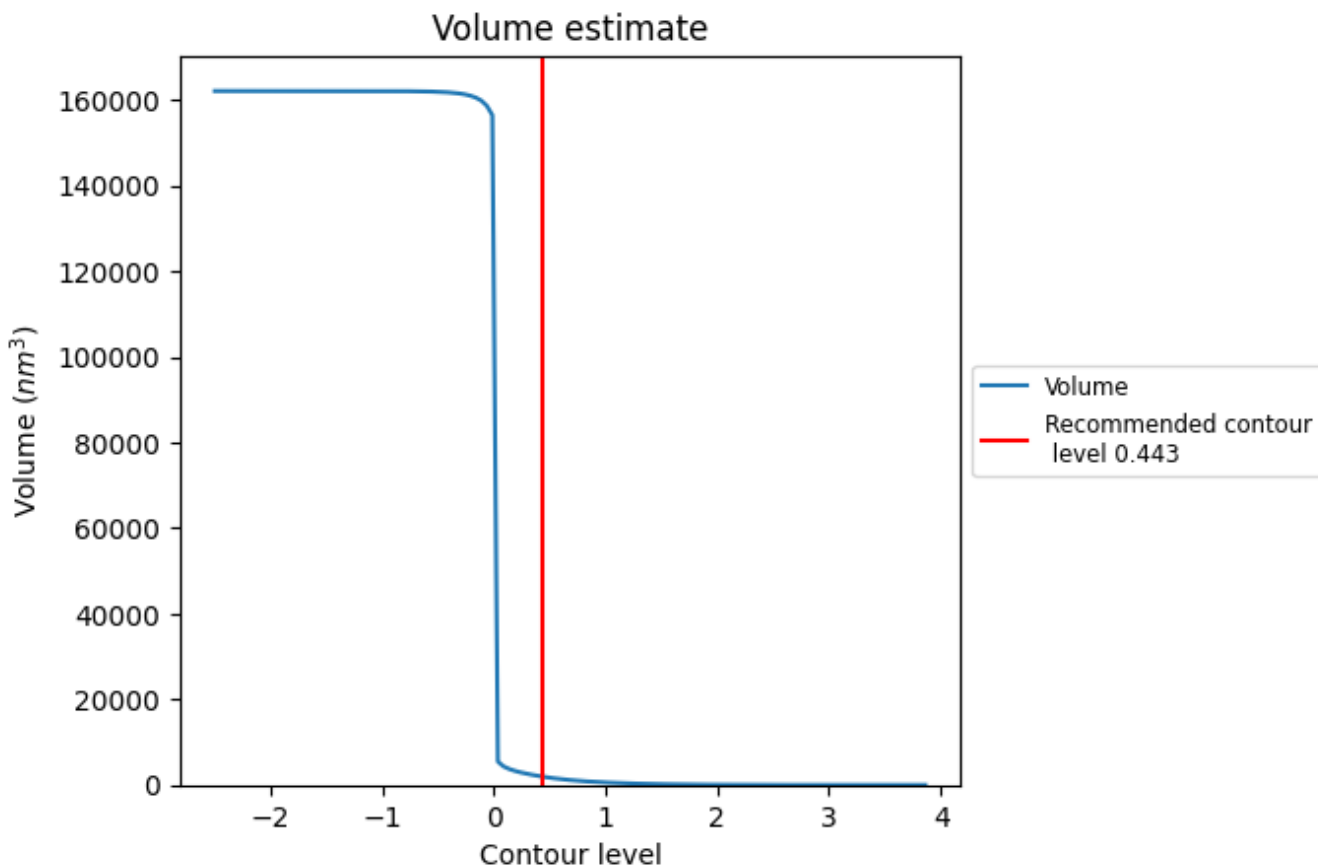
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

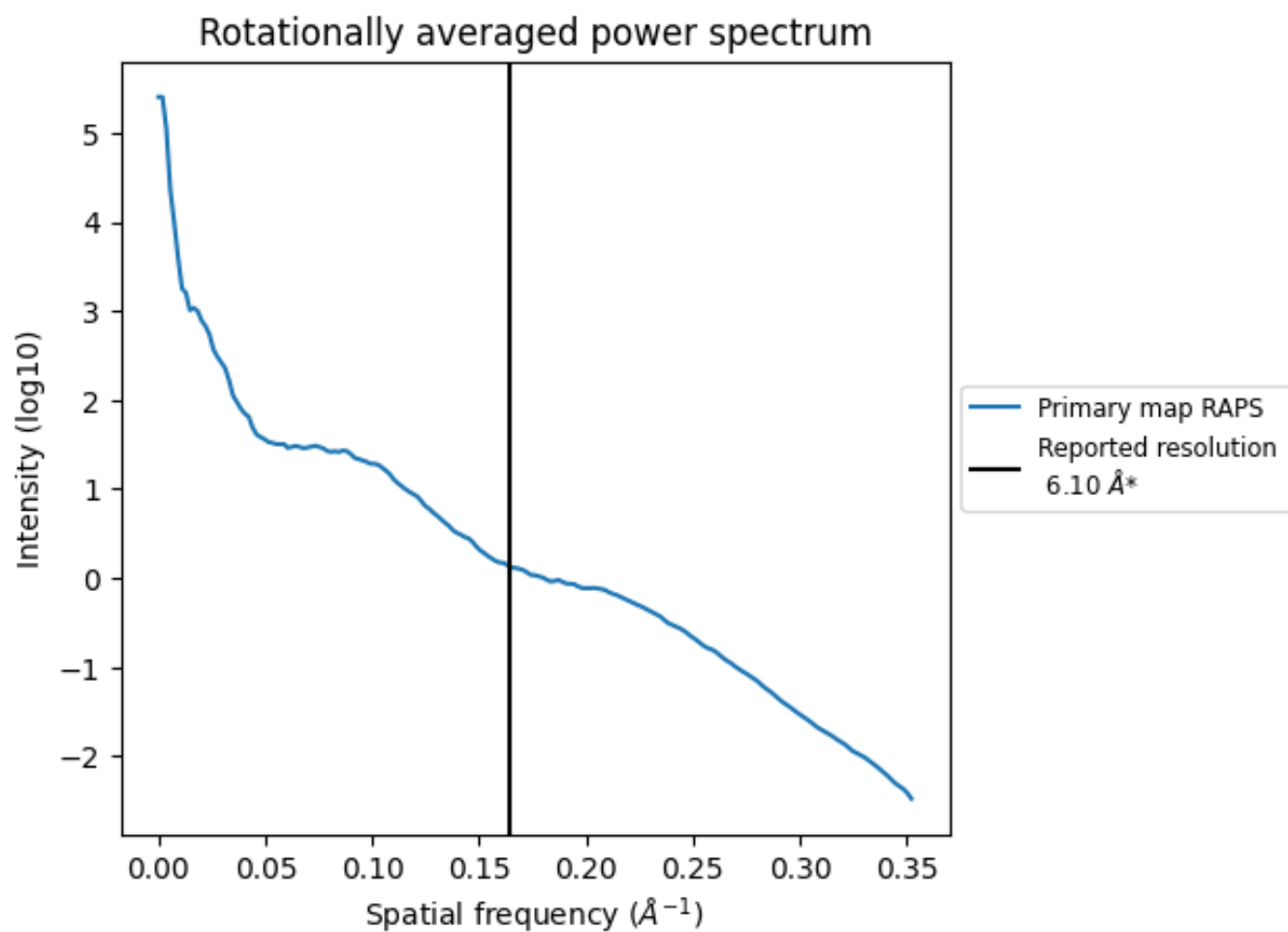
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1916 nm^3 ; this corresponds to an approximate mass of 1731 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](#)

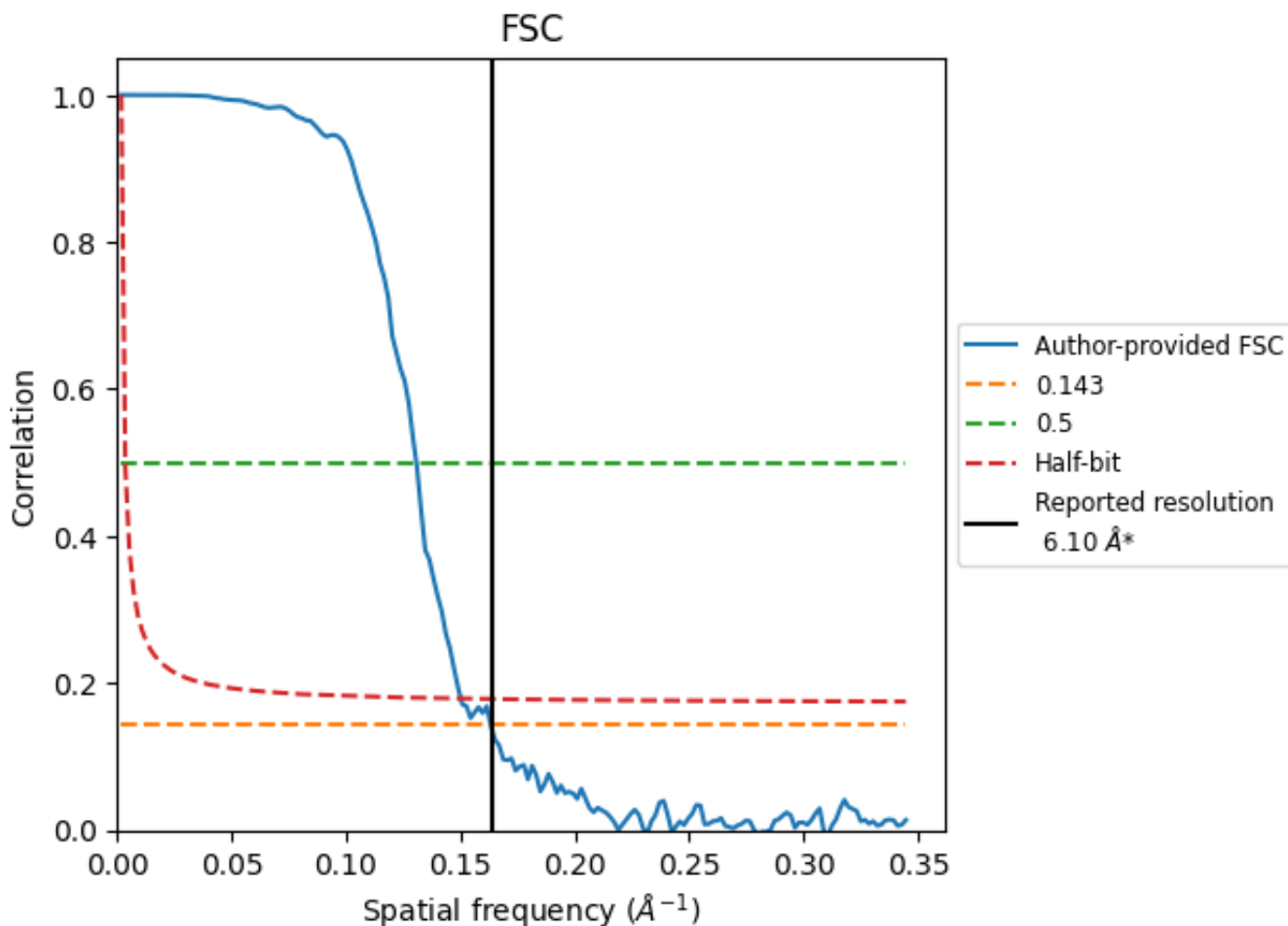


*Reported resolution corresponds to spatial frequency of 0.164 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.164 Å⁻¹

8.2 Resolution estimates [i](#)

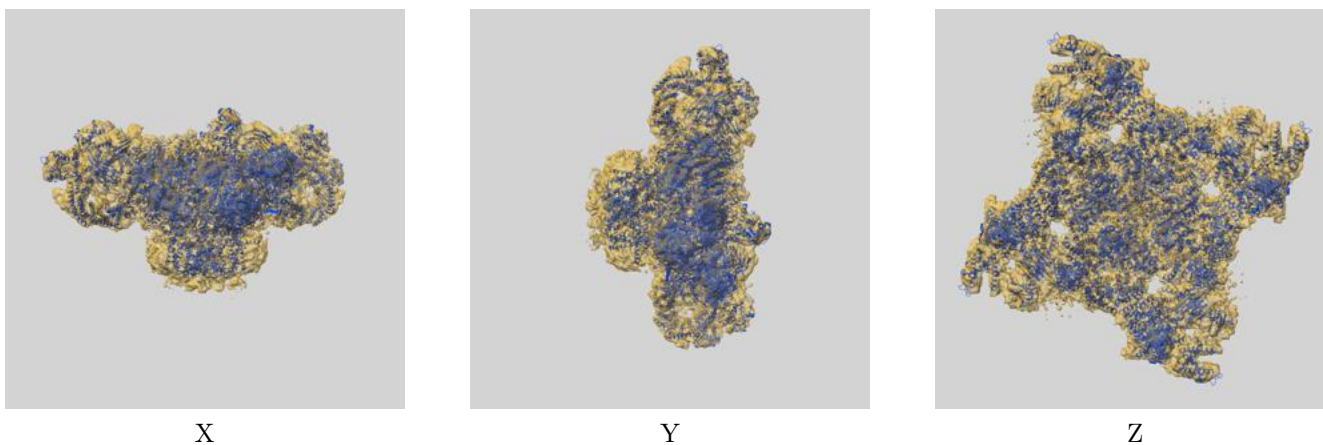
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	-	-	-
Author-provided FSC curve	6.12	7.65	6.66
Unmasked-calculated*	-	-	-

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

9 Map-model fit [i](#)

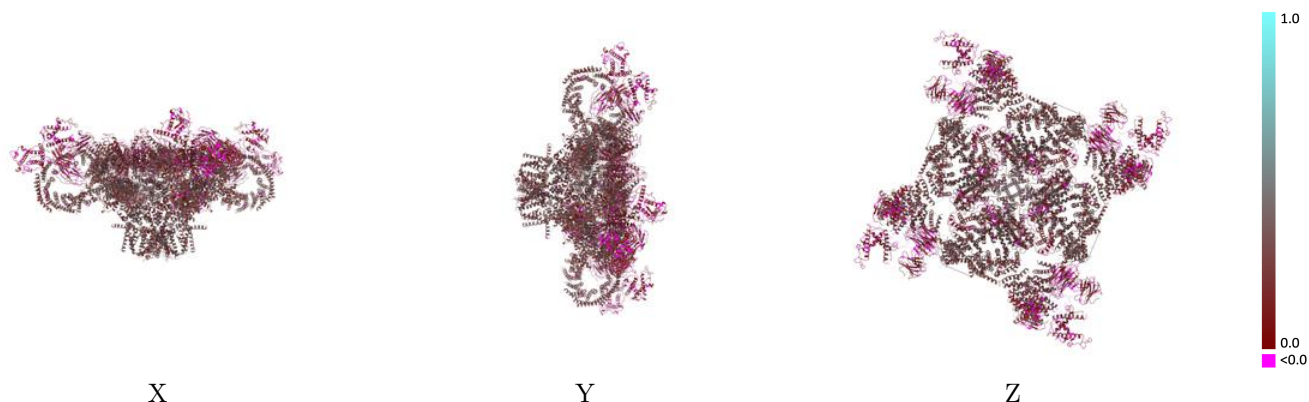
This section contains information regarding the fit between EMDB map EMD-2751 and PDB model 4UWA. Per-residue inclusion information can be found in section [3](#) on page [4](#).

9.1 Map-model overlay [i](#)



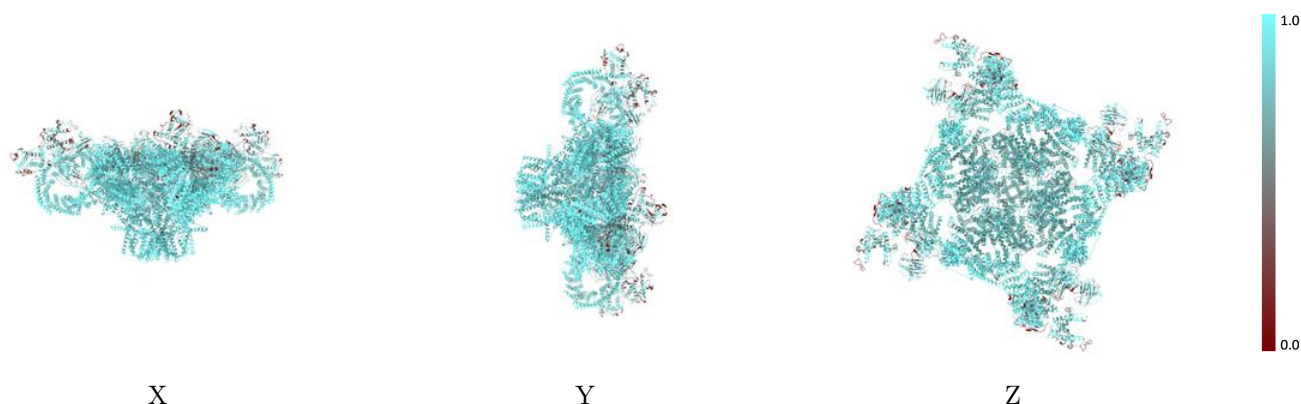
The images above show the 3D surface view of the map at the recommended contour level 0.443 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



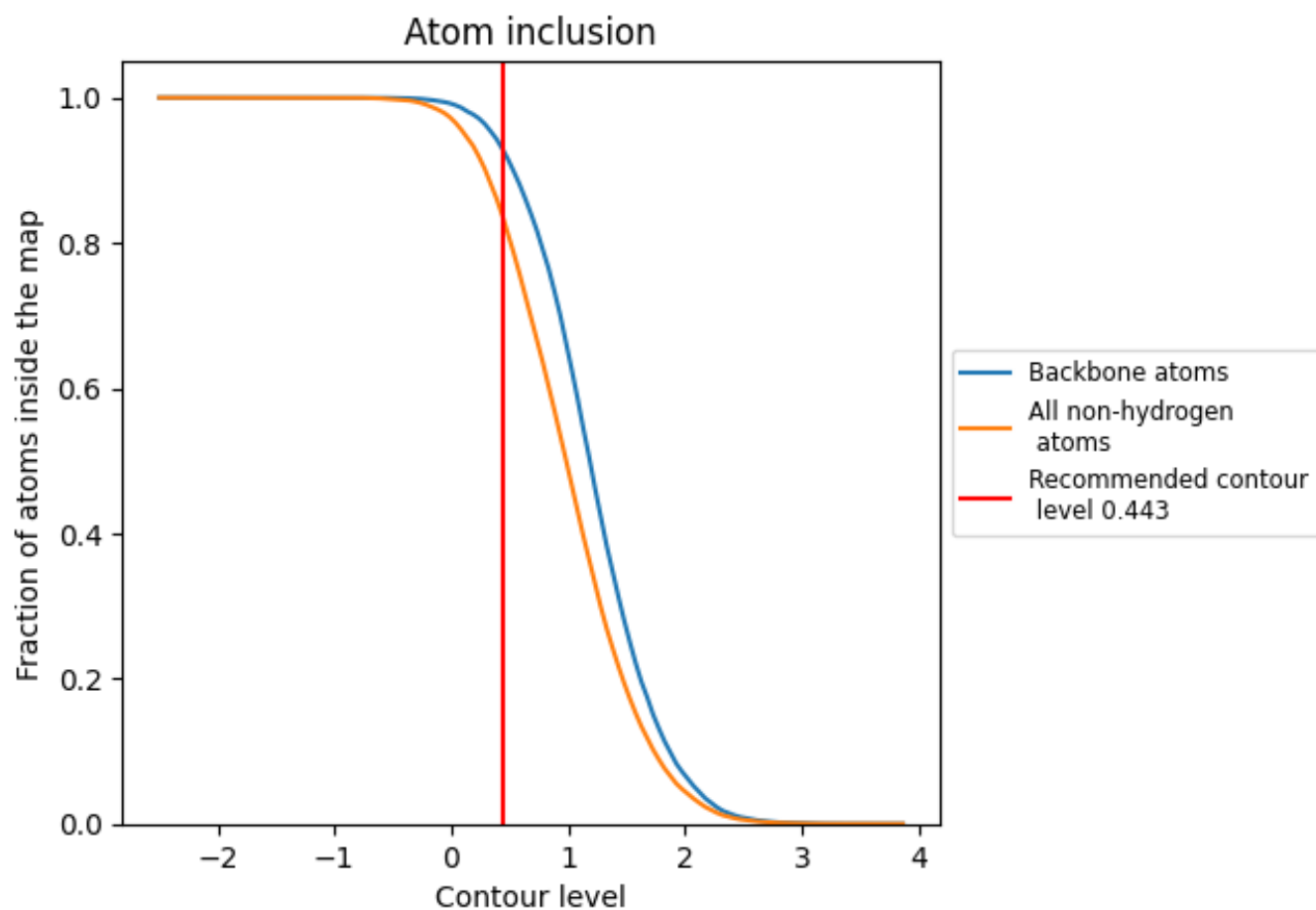
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.443).











9.4 Atom inclusion [i](#)



At the recommended contour level, 93% of all backbone atoms, 83% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.443) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8344	 0.2080
A	 0.8346	 0.2090
B	 0.8343	 0.2080
C	 0.8345	 0.2080
D	 0.8344	 0.2080

