



Full wwPDB EM Validation Report ⓘ

Mar 6, 2026 – 07:42 PM UTC

PDB ID : 6YEW / pdb_00006yew
EMDB ID : EMD-10796
Title : Morganella morganii TcdA4 in complex with porcine mucosa heparin
Authors : Roderer, D.; Broecker, F.; Sitsel, O.; Kaplonek, P.; Leidreiter, F.; Seeberger, P.H.; Raunser, S.
Deposited on : 2020-03-25
Resolution : 3.20 Å(reported)
Based on initial model : 6RW9

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:

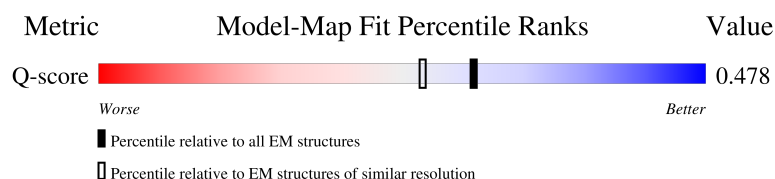
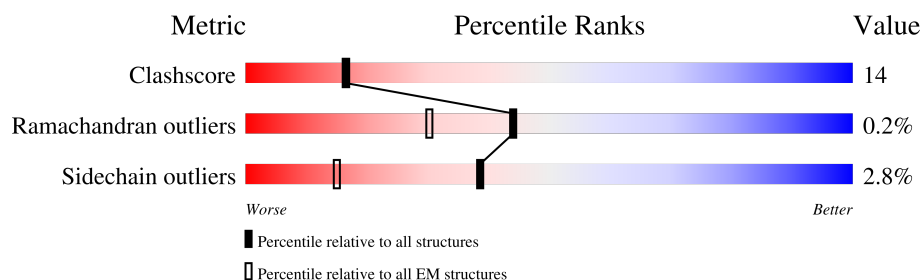
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 3.20 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	15020 (2.70 - 3.70)

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	2469	 6% 63% 29% • 7%
1	B	2469	 6% 63% 28% • 7%
1	C	2469	 6% 63% 28% • 7%
1	D	2469	 6% 63% 29% • 7%

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Mol	Chain	Length	Quality of chain
1	E	2469	6% 63% 29% • 7%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 88700 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.

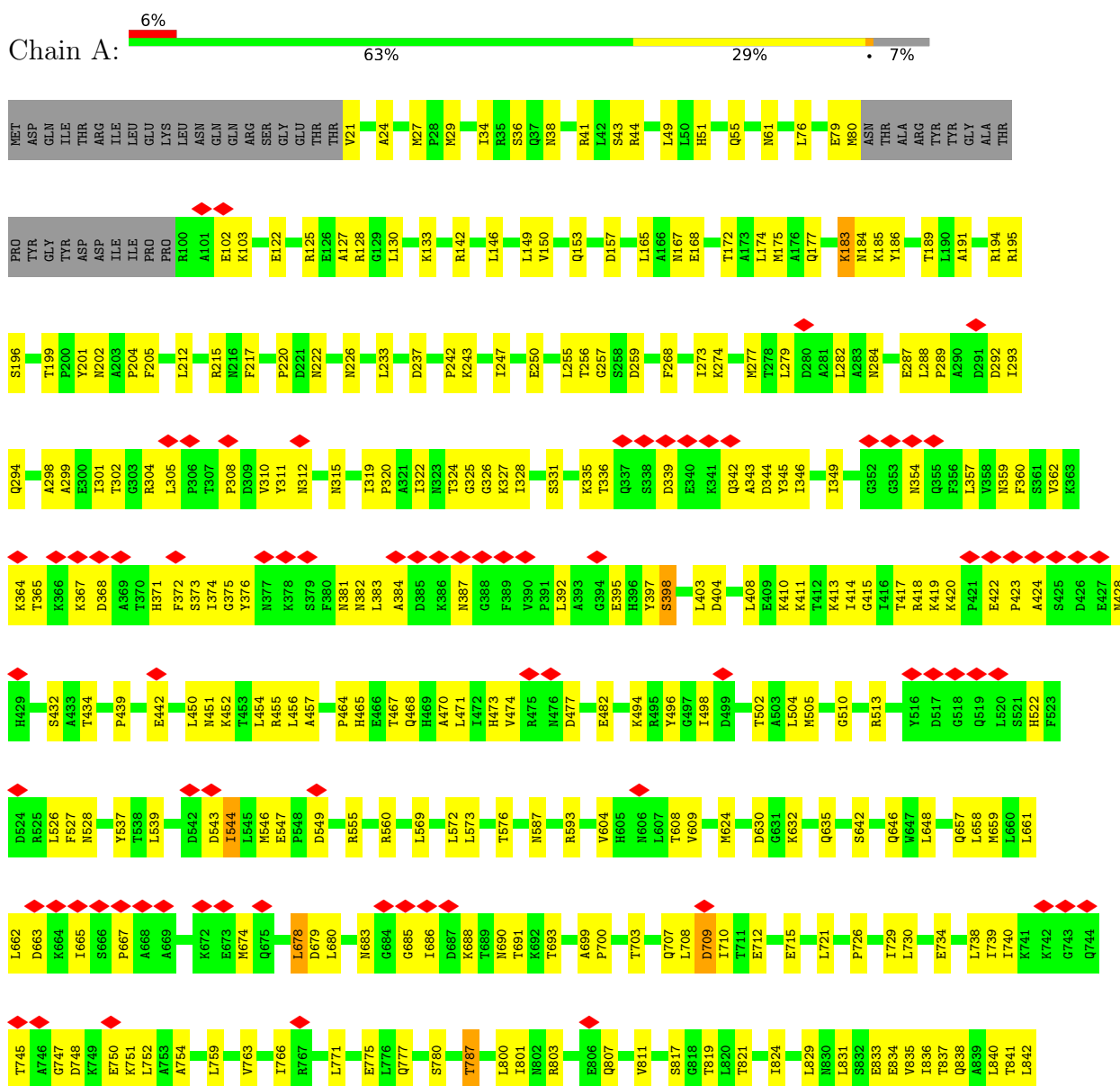
- Molecule 1 is a protein called Insecticidal toxin protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		
1	B	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		
1	C	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		
1	D	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		
1	E	2285	Total	C	N	O	S	0	0
			17740	11194	3070	3415	61		

3 Residue-property plots [i](#)

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

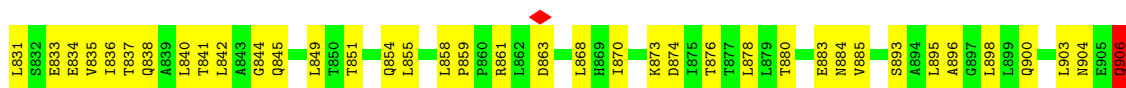
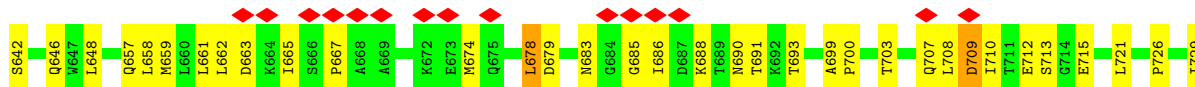
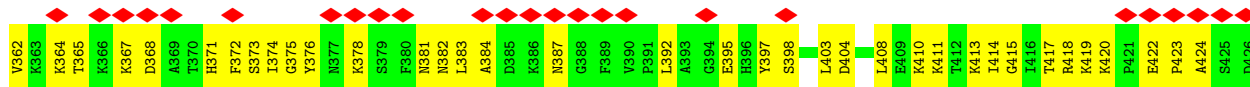
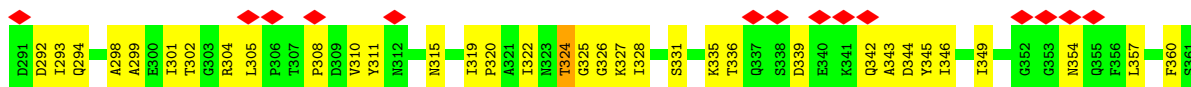
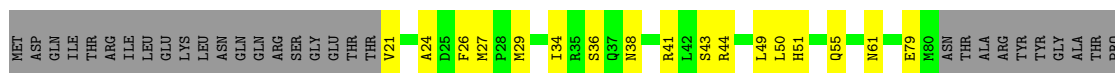
- Molecule 1: Insecticidal toxin protein







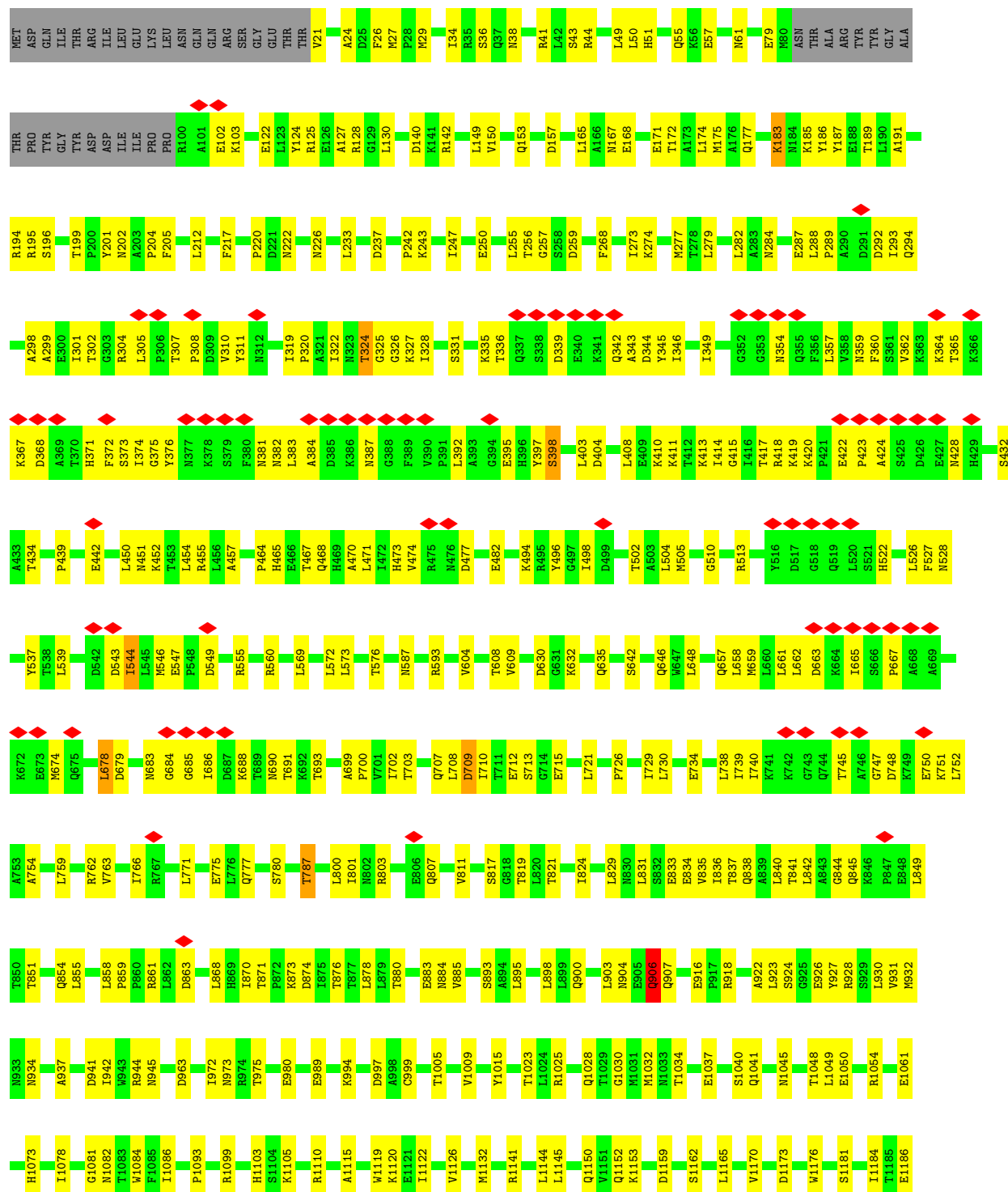
• Molecule 1: Insecticidal toxin protein







● Molecule 1: Insecticidal toxin protein













4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C5	Depositor
Number of particles used	182506	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	100	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	0.161	Depositor
Minimum map value	-0.066	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.023	Depositor
Map size (Å)	426.24, 426.24, 426.24	wwPDB
Map dimensions	384, 384, 384	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.11, 1.11, 1.11	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.49	0/18078	0.53	2/24569 (0.0%)
1	B	0.49	0/18078	0.53	4/24569 (0.0%)
1	C	0.49	0/18078	0.53	2/24569 (0.0%)
1	D	0.49	0/18078	0.53	2/24569 (0.0%)
1	E	0.49	0/18078	0.53	2/24569 (0.0%)
All	All	0.49	0/90390	0.53	12/122845 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
All	All	0	10

There are no bond length outliers.

All (12) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	906	GLN	CA-CB-CG	8.08	130.26	114.10
1	C	906	GLN	CA-CB-CG	8.08	130.25	114.10
1	B	906	GLN	CA-CB-CG	8.07	130.25	114.10
1	A	906	GLN	CA-CB-CG	8.06	130.22	114.10
1	D	906	GLN	CA-CB-CG	8.05	130.21	114.10
1	B	1312	ILE	CA-C-N	6.22	132.76	120.94
1	B	1312	ILE	C-N-CA	6.22	132.76	120.94
1	D	906	GLN	CB-CG-CD	5.80	122.46	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	906	GLN	CB-CG-CD	5.79	122.45	112.60
1	C	906	GLN	CB-CG-CD	5.79	122.45	112.60
1	E	906	GLN	CB-CG-CD	5.78	122.43	112.60
1	B	906	GLN	CB-CG-CD	5.77	122.42	112.60

There are no chirality outliers.

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1560	TRP	Peptide
1	A	1722	VAL	Peptide
1	B	1560	TRP	Peptide
1	B	1722	VAL	Peptide
1	C	1560	TRP	Peptide
1	C	1722	VAL	Peptide
1	D	1560	TRP	Peptide
1	D	1722	VAL	Peptide
1	E	1560	TRP	Peptide
1	E	1722	VAL	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	17740	0	17523	530	0
1	B	17740	0	17523	517	0
1	C	17740	0	17523	525	0
1	D	17740	0	17523	546	0
1	E	17740	0	17523	562	0
All	All	88700	0	87615	2488	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 14.

All (2488) 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:D:325:GLY:HA2	1:E:1865:ILE:HD11	1.38	1.04
1:B:1713:THR:HG22	1:B:1715:ALA:H	1.38	0.89
1:C:1713:THR:HG22	1:C:1715:ALA:H	1.38	0.87
1:A:1713:THR:HG22	1:A:1715:ALA:H	1.38	0.87
1:E:1713:THR:HG22	1:E:1715:ALA:H	1.37	0.86
1:D:1713:THR:HG22	1:D:1715:ALA:H	1.37	0.85
1:B:325:GLY:HA2	1:C:1865:ILE:HD11	1.56	0.85
1:A:1566:ARG:NH2	1:A:1597:PRO:O	2.10	0.85
1:B:1566:ARG:NH2	1:B:1597:PRO:O	2.10	0.85
1:C:1566:ARG:NH2	1:C:1597:PRO:O	2.10	0.85
1:D:1566:ARG:NH2	1:D:1597:PRO:O	2.10	0.84
1:D:2325:GLY:HA2	1:D:2340:ASP:HA	1.60	0.84
1:E:1566:ARG:NH2	1:E:1597:PRO:O	2.10	0.84
1:A:2325:GLY:HA2	1:A:2340:ASP:HA	1.60	0.84
1:B:2325:GLY:HA2	1:B:2340:ASP:HA	1.60	0.83
1:E:2325:GLY:HA2	1:E:2340:ASP:HA	1.60	0.83
1:C:2325:GLY:HA2	1:C:2340:ASP:HA	1.60	0.83
1:B:1542:VAL:HG22	1:B:1543:GLN:HG2	1.61	0.82
1:D:1279:ASN:HB3	1:D:1528:ALA:HB2	1.61	0.82
1:B:1279:ASN:HB3	1:B:1528:ALA:HB2	1.61	0.82
1:C:1279:ASN:HB3	1:C:1528:ALA:HB2	1.61	0.82
1:E:1279:ASN:HB3	1:E:1528:ALA:HB2	1.61	0.82
1:C:1542:VAL:HG22	1:C:1543:GLN:HG2	1.61	0.82
1:A:1542:VAL:HG22	1:A:1543:GLN:HG2	1.61	0.81
1:D:1542:VAL:HG22	1:D:1543:GLN:HG2	1.61	0.81
1:E:1542:VAL:HG22	1:E:1543:GLN:HG2	1.61	0.81
1:A:196:SER:OG	1:A:199:THR:OG1	1.99	0.81
1:B:196:SER:OG	1:B:199:THR:OG1	1.99	0.81
1:E:196:SER:OG	1:E:199:THR:OG1	1.99	0.81
1:D:196:SER:OG	1:D:199:THR:OG1	1.99	0.80
1:A:1279:ASN:HB3	1:A:1528:ALA:HB2	1.61	0.80
1:C:196:SER:OG	1:C:199:THR:OG1	1.99	0.80
1:A:1826:ASP:OD1	1:A:1924:TYR:OH	2.00	0.79
1:A:2420:ASN:OD1	1:E:2416:ARG:NH1	2.14	0.79
1:E:1826:ASP:OD1	1:E:1924:TYR:OH	2.00	0.79
1:A:2048:LYS:NZ	1:E:2176:GLU:OE1	2.13	0.79
1:E:1613:ASP:H	1:E:1617:HIS:HD2	1.31	0.79
1:D:1826:ASP:OD1	1:D:1924:TYR:OH	2.00	0.78
1:A:1613:ASP:H	1:A:1617:HIS:HD2	1.31	0.78
1:B:1826:ASP:OD1	1:B:1924:TYR:OH	2.00	0.78
1:A:325:GLY:HA2	1:B:1865:ILE:HD11	1.64	0.78
1:C:1510:ASN:HB2	1:C:1538:LYS:HE3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1613:ASP:H	1:D:1617:HIS:HD2	1.31	0.78
1:D:1510:ASN:HB2	1:D:1538:LYS:HE3	1.65	0.78
1:B:1613:ASP:H	1:B:1617:HIS:HD2	1.31	0.78
1:C:1613:ASP:H	1:C:1617:HIS:HD2	1.31	0.78
1:A:710:ILE:HG22	1:A:712:GLU:H	1.49	0.78
1:B:1510:ASN:HB2	1:B:1538:LYS:HE3	1.65	0.78
1:E:510:GLY:HA2	1:E:593:ARG:HG3	1.65	0.78
1:A:1510:ASN:HB2	1:A:1538:LYS:HE3	1.65	0.78
1:B:710:ILE:HG22	1:B:712:GLU:H	1.49	0.77
1:B:803:ARG:NH2	1:B:863:ASP:OD1	2.17	0.77
1:C:510:GLY:HA2	1:C:593:ARG:HG3	1.65	0.77
1:E:1510:ASN:HB2	1:E:1538:LYS:HE3	1.65	0.77
1:C:1826:ASP:OD1	1:C:1924:TYR:OH	2.00	0.77
1:D:510:GLY:HA2	1:D:593:ARG:HG3	1.65	0.77
1:E:710:ILE:HG22	1:E:712:GLU:H	1.49	0.77
1:A:2277:LEU:HD21	1:E:2229:ARG:HD2	1.65	0.77
1:B:721:LEU:HD13	1:B:759:LEU:HD23	1.67	0.77
1:D:710:ILE:HG22	1:D:712:GLU:H	1.49	0.76
1:E:803:ARG:NH2	1:E:863:ASP:OD1	2.17	0.76
1:C:803:ARG:NH2	1:C:863:ASP:OD1	2.17	0.76
1:E:289:PRO:HG2	1:E:292:ASP:HB2	1.68	0.76
1:D:289:PRO:HG2	1:D:292:ASP:HB2	1.68	0.76
1:A:803:ARG:NH2	1:A:863:ASP:OD1	2.17	0.76
1:D:803:ARG:NH2	1:D:863:ASP:OD1	2.17	0.76
1:C:289:PRO:HG2	1:C:292:ASP:HB2	1.68	0.76
1:C:721:LEU:HD13	1:C:759:LEU:HD23	1.67	0.76
1:B:510:GLY:HA2	1:B:593:ARG:HG3	1.65	0.76
1:C:710:ILE:HG22	1:C:712:GLU:H	1.49	0.76
1:A:510:GLY:HA2	1:A:593:ARG:HG3	1.65	0.76
1:B:289:PRO:HG2	1:B:292:ASP:HB2	1.68	0.76
1:A:721:LEU:HD13	1:A:759:LEU:HD23	1.67	0.75
1:B:175:MET:HE1	1:B:183:LYS:HG2	1.69	0.75
1:C:325:GLY:HA2	1:D:1865:ILE:HD11	1.68	0.75
1:A:175:MET:HE1	1:A:183:LYS:HG2	1.68	0.75
1:A:289:PRO:HG2	1:A:292:ASP:HB2	1.68	0.75
1:E:721:LEU:HD13	1:E:759:LEU:HD23	1.67	0.75
1:D:721:LEU:HD13	1:D:759:LEU:HD23	1.67	0.74
1:D:2223:LEU:HB2	1:E:2270:MET:SD	2.27	0.74
1:C:175:MET:HE1	1:C:183:LYS:HG2	1.68	0.74
1:D:175:MET:HE1	1:D:183:LYS:HG2	1.69	0.74
1:E:175:MET:HE1	1:E:183:LYS:HG2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2415:PHE:CE2	1:E:2465:ARG:HB3	2.23	0.74
1:E:376:TYR:HB3	1:E:381:ASN:HB3	1.71	0.73
1:A:2273:GLU:HG3	1:E:2001:PHE:CE1	2.23	0.73
1:C:376:TYR:HB3	1:C:381:ASN:HB3	1.71	0.72
1:A:38:ASN:HB3	1:A:41:ARG:HB2	1.71	0.72
1:D:376:TYR:HB3	1:D:381:ASN:HB3	1.71	0.72
1:B:376:TYR:HB3	1:B:381:ASN:HB3	1.71	0.72
1:D:250:GLU:O	1:D:452:LYS:NZ	2.23	0.72
1:A:376:TYR:HB3	1:A:381:ASN:HB3	1.71	0.72
1:C:878:LEU:HA	1:C:895:LEU:HD11	1.72	0.72
1:E:38:ASN:HB3	1:E:41:ARG:HB2	1.71	0.72
1:A:934:ASN:HD22	1:A:937:ALA:HB2	1.55	0.72
1:B:250:GLU:O	1:B:452:LYS:NZ	2.22	0.72
1:B:934:ASN:HD22	1:B:937:ALA:HB2	1.55	0.72
1:E:250:GLU:O	1:E:452:LYS:NZ	2.23	0.72
1:E:547:GLU:O	1:E:555:ARG:NH2	2.23	0.72
1:C:934:ASN:HD22	1:C:937:ALA:HB2	1.55	0.72
1:D:1833:ASP:OD1	1:D:1851:TYR:OH	2.08	0.72
1:A:250:GLU:O	1:A:452:LYS:NZ	2.23	0.71
1:A:547:GLU:O	1:A:555:ARG:NH2	2.23	0.71
1:C:766:ILE:HG12	1:C:771:LEU:HD11	1.72	0.71
1:D:38:ASN:HB3	1:D:41:ARG:HB2	1.71	0.71
1:A:1613:ASP:H	1:A:1617:HIS:CD2	2.09	0.71
1:A:1756:ARG:NH1	1:E:2075:GLU:OE2	2.22	0.71
1:B:878:LEU:HA	1:B:895:LEU:HD11	1.72	0.71
1:B:1613:ASP:H	1:B:1617:HIS:CD2	2.09	0.71
1:C:1833:ASP:OD1	1:C:1851:TYR:OH	2.08	0.71
1:C:997:ASP:OD1	1:D:1767:ASN:ND2	2.23	0.71
1:E:2309:ASP:HB3	1:E:2311:VAL:HG12	1.73	0.71
1:D:878:LEU:HA	1:D:895:LEU:HD11	1.72	0.71
1:D:2237:ARG:HH22	1:E:2283:GLU:CD	1.99	0.71
1:A:2309:ASP:HB3	1:A:2311:VAL:HG12	1.73	0.71
1:C:250:GLU:O	1:C:452:LYS:NZ	2.23	0.71
1:D:934:ASN:HD22	1:D:937:ALA:HB2	1.55	0.71
1:D:2309:ASP:HB3	1:D:2311:VAL:HG12	1.73	0.71
1:C:202:ASN:HB2	1:C:205:PHE:HB3	1.73	0.71
1:D:202:ASN:HB2	1:D:205:PHE:HB3	1.73	0.71
1:E:766:ILE:HG12	1:E:771:LEU:HD11	1.72	0.71
1:E:934:ASN:HD22	1:E:937:ALA:HB2	1.55	0.71
1:A:1994:LEU:HD12	1:A:2237:ARG:HG3	1.73	0.71
1:B:38:ASN:HB3	1:B:41:ARG:HB2	1.70	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:766:ILE:HG12	1:D:771:LEU:HD11	1.72	0.71
1:D:2137:THR:HG23	1:E:2082:LEU:HD22	1.72	0.71
1:E:2448:GLU:HG3	1:E:2450:GLN:H	1.56	0.71
1:D:1613:ASP:H	1:D:1617:HIS:CD2	2.09	0.71
1:D:2142:ASP:OD2	1:E:2083:TYR:OH	2.09	0.71
1:E:1833:ASP:OD1	1:E:1851:TYR:OH	2.08	0.71
1:A:1767:ASN:ND2	1:E:997:ASP:OD1	2.22	0.70
1:B:2366:ARG:HG2	1:B:2468:ILE:HG12	1.73	0.70
1:C:38:ASN:HB3	1:C:41:ARG:HB2	1.71	0.70
1:A:202:ASN:HB2	1:A:205:PHE:HB3	1.73	0.70
1:A:1015:TYR:OH	1:A:1916:GLN:O	2.09	0.70
1:A:122:GLU:OE1	1:A:125:ARG:NH2	2.25	0.70
1:C:2366:ARG:HG2	1:C:2468:ILE:HG12	1.74	0.70
1:C:547:GLU:O	1:C:555:ARG:NH2	2.23	0.70
1:D:2366:ARG:HG2	1:D:2468:ILE:HG12	1.74	0.70
1:E:1613:ASP:H	1:E:1617:HIS:CD2	2.09	0.70
1:A:973:ASN:HD21	1:B:1849:MET:HE3	1.54	0.70
1:B:202:ASN:HB2	1:B:205:PHE:HB3	1.73	0.70
1:C:2448:GLU:HG3	1:C:2450:GLN:H	1.56	0.70
1:E:1015:TYR:OH	1:E:1916:GLN:O	2.09	0.70
1:B:2309:ASP:HB3	1:B:2311:VAL:HG12	1.73	0.70
1:E:2366:ARG:HG2	1:E:2468:ILE:HG12	1.74	0.70
1:A:2366:ARG:HG2	1:A:2468:ILE:HG12	1.74	0.70
1:D:1994:LEU:HD12	1:D:2237:ARG:HG3	1.73	0.70
1:E:122:GLU:OE1	1:E:125:ARG:NH2	2.25	0.70
1:A:766:ILE:HG12	1:A:771:LEU:HD11	1.72	0.70
1:A:2145:SER:OG	1:B:2146:GLN:NE2	2.25	0.70
1:B:1994:LEU:HD12	1:B:2237:ARG:HG3	1.73	0.70
1:C:2102:ALA:HB2	1:E:1093:PRO:HG3	1.73	0.70
1:C:2309:ASP:HB3	1:C:2311:VAL:HG12	1.73	0.70
1:E:878:LEU:HA	1:E:895:LEU:HD11	1.72	0.70
1:B:1833:ASP:OD1	1:B:1851:TYR:OH	2.08	0.70
1:B:2448:GLU:HG3	1:B:2450:GLN:H	1.56	0.70
1:C:1613:ASP:H	1:C:1617:HIS:CD2	2.09	0.70
1:D:2222:ARG:NH2	1:E:2261:ALA:O	2.25	0.70
1:B:122:GLU:OE1	1:B:125:ARG:NH2	2.25	0.69
1:C:1994:LEU:HD12	1:C:2237:ARG:HG3	1.73	0.69
1:E:703:THR:HG23	1:E:708:LEU:HB2	1.74	0.69
1:A:537:TYR:OH	1:A:587:ASN:OD1	2.11	0.69
1:D:1001:LYS:HG3	1:E:1849:MET:HE1	1.72	0.69
1:D:1015:TYR:OH	1:D:1916:GLN:O	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:547:GLU:O	1:B:555:ARG:NH2	2.23	0.69
1:D:2448:GLU:HG3	1:D:2450:GLN:H	1.56	0.69
1:A:878:LEU:HA	1:A:895:LEU:HD11	1.72	0.69
1:A:2448:GLU:HG3	1:A:2450:GLN:H	1.56	0.69
1:C:1028:GLN:HE21	1:C:1032:MET:HE3	1.58	0.69
1:D:122:GLU:OE1	1:D:125:ARG:NH2	2.25	0.69
1:D:1001:LYS:HG3	1:E:1849:MET:CE	2.22	0.69
1:D:2347:PHE:H	1:D:2438:LEU:H	1.40	0.69
1:E:202:ASN:HB2	1:E:205:PHE:HB3	1.73	0.69
1:E:1994:LEU:HD12	1:E:2237:ARG:HG3	1.73	0.69
1:A:1833:ASP:OD1	1:A:1851:TYR:OH	2.08	0.69
1:C:685:GLY:H	1:D:2229:ARG:CZ	2.06	0.69
1:A:703:THR:HG23	1:A:708:LEU:HB2	1.74	0.69
1:B:766:ILE:HG12	1:B:771:LEU:HD11	1.72	0.69
1:B:1028:GLN:HE21	1:B:1032:MET:HE3	1.58	0.69
1:C:122:GLU:OE1	1:C:125:ARG:NH2	2.25	0.69
1:C:2347:PHE:H	1:C:2438:LEU:H	1.40	0.69
1:D:703:THR:HG23	1:D:708:LEU:HB2	1.74	0.69
1:B:1610:LYS:HD2	1:B:1718:ALA:HB3	1.75	0.69
1:D:547:GLU:O	1:D:555:ARG:NH2	2.23	0.69
1:A:1028:GLN:HE21	1:A:1032:MET:HE3	1.58	0.69
1:B:1015:TYR:OH	1:B:1916:GLN:O	2.09	0.69
1:C:1015:TYR:OH	1:C:1916:GLN:O	2.09	0.69
1:D:1610:LYS:HD2	1:D:1718:ALA:HB3	1.75	0.69
1:A:322:ILE:HG22	1:A:328:ILE:HG12	1.76	0.68
1:B:2145:SER:OG	1:C:2146:GLN:NE2	2.27	0.68
1:D:2415:PHE:CZ	1:E:2465:ARG:HB3	2.28	0.68
1:E:2347:PHE:H	1:E:2438:LEU:H	1.39	0.68
1:A:1610:LYS:HD2	1:A:1718:ALA:HB3	1.75	0.68
1:C:1610:LYS:HD2	1:C:1718:ALA:HB3	1.75	0.68
1:C:2403:ILE:HG12	1:C:2413:GLY:HA3	1.75	0.68
1:D:1028:GLN:HE21	1:D:1032:MET:HE3	1.58	0.68
1:D:1132:MET:HB3	1:D:1197:LEU:HD23	1.75	0.68
1:E:1028:GLN:HE21	1:E:1032:MET:HE3	1.58	0.68
1:D:1997:GLN:HG2	1:E:2276:LEU:HD21	1.72	0.68
1:E:2403:ILE:HG12	1:E:2413:GLY:HA3	1.75	0.68
1:B:322:ILE:HG22	1:B:328:ILE:HG12	1.75	0.68
1:E:1628:SER:HB2	1:E:1636:LYS:HB3	1.76	0.68
1:B:537:TYR:OH	1:B:587:ASN:OD1	2.11	0.68
1:B:1628:SER:HB2	1:B:1636:LYS:HB3	1.76	0.68
1:D:2226:ILE:HG23	1:E:2277:LEU:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:322:ILE:HG22	1:E:328:ILE:HG12	1.75	0.68
1:A:2347:PHE:H	1:A:2438:LEU:H	1.39	0.68
1:C:703:THR:HG23	1:C:708:LEU:HB2	1.74	0.68
1:C:2058:GLN:HA	1:C:2168:ILE:HD11	1.76	0.68
1:B:2347:PHE:H	1:B:2438:LEU:H	1.40	0.68
1:D:1628:SER:HB2	1:D:1636:LYS:HB3	1.76	0.68
1:D:2058:GLN:HA	1:D:2168:ILE:HD11	1.76	0.68
1:E:1132:MET:HB3	1:E:1197:LEU:HD23	1.75	0.68
1:E:1610:LYS:HD2	1:E:1718:ALA:HB3	1.75	0.68
1:A:2242:GLU:OE2	1:A:2256:TYR:N	2.26	0.68
1:A:2403:ILE:HG12	1:A:2413:GLY:HA3	1.75	0.68
1:D:322:ILE:HG22	1:D:328:ILE:HG12	1.75	0.68
1:D:2403:ILE:HG12	1:D:2413:GLY:HA3	1.75	0.68
1:B:703:THR:HG23	1:B:708:LEU:HB2	1.74	0.67
1:B:1132:MET:HB3	1:B:1197:LEU:HD23	1.75	0.67
1:C:2242:GLU:OE2	1:C:2256:TYR:N	2.26	0.67
1:D:2242:GLU:OE2	1:D:2256:TYR:N	2.26	0.67
1:A:1865:ILE:HA	1:E:294:GLN:HE22	1.59	0.67
1:A:1628:SER:HB2	1:A:1636:LYS:HB3	1.76	0.67
1:B:2403:ILE:HG12	1:B:2413:GLY:HA3	1.75	0.67
1:C:1132:MET:HB3	1:C:1197:LEU:HD23	1.75	0.67
1:C:322:ILE:HG22	1:C:328:ILE:HG12	1.75	0.67
1:A:1132:MET:HB3	1:A:1197:LEU:HD23	1.75	0.67
1:C:2389:PHE:HB3	1:C:2403:ILE:HG22	1.77	0.67
1:B:2058:GLN:HA	1:B:2168:ILE:HD11	1.76	0.67
1:E:2389:PHE:HB3	1:E:2403:ILE:HG22	1.77	0.67
1:A:2216:TYR:OH	1:B:2010:GLU:OE1	2.13	0.67
1:C:1628:SER:HB2	1:C:1636:LYS:HB3	1.76	0.67
1:D:2389:PHE:HB3	1:D:2403:ILE:HG22	1.77	0.67
1:E:153:GLN:NE2	1:E:157:ASP:OD2	2.28	0.67
1:A:153:GLN:NE2	1:A:157:ASP:OD2	2.28	0.67
1:D:2001:PHE:CE1	1:E:2273:GLU:HG3	2.30	0.67
1:C:153:GLN:NE2	1:C:157:ASP:OD2	2.28	0.66
1:D:153:GLN:NE2	1:D:157:ASP:OD2	2.28	0.66
1:E:2242:GLU:OE2	1:E:2256:TYR:N	2.26	0.66
1:A:2389:PHE:HB3	1:A:2403:ILE:HG22	1.77	0.66
1:B:2075:GLU:OE2	1:C:1756:ARG:NH1	2.27	0.66
1:E:2058:GLN:HA	1:E:2168:ILE:HD11	1.76	0.66
1:B:153:GLN:NE2	1:B:157:ASP:OD2	2.28	0.66
1:B:2329:ILE:HG21	1:B:2344:HIS:HB3	1.78	0.66
1:B:2389:PHE:HB3	1:B:2403:ILE:HG22	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1950:VAL:HG13	1:E:906:GLN:NE2	2.11	0.66
1:A:1219:THR:HG21	1:A:1251:LEU:HB3	1.78	0.66
1:C:537:TYR:OH	1:C:587:ASN:OD1	2.11	0.66
1:C:1614:LYS:H	1:C:1614:LYS:HD2	1.61	0.66
1:E:726:PRO:HG2	1:E:729:ILE:HD12	1.78	0.66
1:C:344:ASP:HB3	1:C:362:VAL:HA	1.78	0.66
1:D:2388:ILE:HG13	1:E:2362:LEU:HD11	1.77	0.66
1:A:726:PRO:HG2	1:A:729:ILE:HD12	1.78	0.65
1:A:1630:ASP:HB3	1:A:1678:TYR:CD2	2.31	0.65
1:A:2058:GLN:HA	1:A:2168:ILE:HD11	1.76	0.65
1:A:2229:ARG:HD2	1:B:2277:LEU:HD21	1.77	0.65
1:C:1025:ARG:NH2	1:C:1744:GLU:OE2	2.30	0.65
1:B:1630:ASP:HB3	1:B:1678:TYR:CD2	2.31	0.65
1:D:344:ASP:HB3	1:D:362:VAL:HA	1.78	0.65
1:A:2222:ARG:HB3	1:B:2270:MET:HE1	1.78	0.65
1:E:709:ASP:OD1	1:E:709:ASP:N	2.30	0.65
1:A:2329:ILE:HG21	1:A:2344:HIS:HB3	1.78	0.65
1:B:344:ASP:HB3	1:B:362:VAL:HA	1.78	0.65
1:B:1025:ARG:NH2	1:B:1744:GLU:OE2	2.30	0.65
1:D:1630:ASP:HB3	1:D:1678:TYR:CD2	2.32	0.65
1:E:1972:LYS:NZ	1:E:2232:ASP:OD1	2.30	0.65
1:D:1614:LYS:H	1:D:1614:LYS:HD2	1.61	0.65
1:E:1630:ASP:HB3	1:E:1678:TYR:CD2	2.31	0.65
1:E:2329:ILE:HG21	1:E:2344:HIS:HB3	1.78	0.65
1:A:301:ILE:HG23	1:A:302:THR:HG23	1.79	0.65
1:B:2242:GLU:OE2	1:B:2256:TYR:N	2.26	0.65
1:E:301:ILE:HG23	1:E:302:THR:HG23	1.79	0.65
1:A:1614:LYS:H	1:A:1614:LYS:HD2	1.61	0.65
1:B:1614:LYS:H	1:B:1614:LYS:HD2	1.61	0.65
1:E:1614:LYS:H	1:E:1614:LYS:HD2	1.61	0.65
1:C:1219:THR:HG21	1:C:1251:LEU:HB3	1.78	0.65
1:D:1972:LYS:NZ	1:D:2232:ASP:OD1	2.30	0.65
1:C:1972:LYS:NZ	1:C:2232:ASP:OD1	2.30	0.65
1:D:726:PRO:HG2	1:D:729:ILE:HD12	1.78	0.65
1:D:1481:PRO:HB2	1:D:1492:LEU:HD22	1.79	0.65
1:D:2229:ARG:HD2	1:E:2277:LEU:HD21	1.79	0.65
1:E:1219:THR:HG21	1:E:1251:LEU:HB3	1.78	0.65
1:A:349:ILE:HB	1:A:357:LEU:HB2	1.79	0.65
1:A:1040:SER:OG	1:E:2078:ARG:NH1	2.29	0.64
1:A:1972:LYS:NZ	1:A:2232:ASP:OD1	2.30	0.64
1:C:349:ILE:HB	1:C:357:LEU:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2329:ILE:HG21	1:D:2344:HIS:HB3	1.78	0.64
1:C:726:PRO:HG2	1:C:729:ILE:HD12	1.78	0.64
1:D:2414:LEU:HA	1:E:2295:GLU:OE2	1.97	0.64
1:E:537:TYR:OH	1:E:587:ASN:OD1	2.11	0.64
1:E:1481:PRO:HB2	1:E:1492:LEU:HD22	1.79	0.64
1:B:726:PRO:HG2	1:B:729:ILE:HD12	1.78	0.64
1:B:1972:LYS:NZ	1:B:2232:ASP:OD1	2.30	0.64
1:C:1630:ASP:HB3	1:C:1678:TYR:CD2	2.32	0.64
1:C:2075:GLU:OE2	1:D:1756:ARG:NH1	2.31	0.64
1:D:1219:THR:HG21	1:D:1251:LEU:HB3	1.78	0.64
1:E:344:ASP:HB3	1:E:362:VAL:HA	1.78	0.64
1:E:349:ILE:HB	1:E:357:LEU:HB2	1.79	0.64
1:A:344:ASP:HB3	1:A:362:VAL:HA	1.78	0.64
1:A:1481:PRO:HB2	1:A:1492:LEU:HD22	1.79	0.64
1:B:1927:MET:SD	1:B:1931:ARG:NH1	2.71	0.64
1:C:375:GLY:N	1:C:415:GLY:O	2.31	0.64
1:C:2329:ILE:HG21	1:C:2344:HIS:HB3	1.78	0.64
1:D:349:ILE:HB	1:D:357:LEU:HB2	1.79	0.64
1:D:1786:VAL:HG12	1:D:1788:PRO:HD2	1.80	0.64
1:A:167:ASN:ND2	1:A:916:GLU:OE2	2.31	0.64
1:C:1786:VAL:HG12	1:C:1788:PRO:HD2	1.80	0.64
1:D:2343:LEU:HB3	1:D:2442:PHE:HB2	1.80	0.64
1:E:1927:MET:SD	1:E:1931:ARG:NH1	2.71	0.64
1:A:973:ASN:HD21	1:B:1849:MET:CE	2.11	0.64
1:A:1927:MET:SD	1:A:1931:ARG:NH1	2.71	0.64
1:E:375:GLY:N	1:E:415:GLY:O	2.31	0.64
1:C:301:ILE:HG23	1:C:302:THR:HG23	1.79	0.64
1:E:167:ASN:ND2	1:E:916:GLU:OE2	2.31	0.64
1:B:301:ILE:HG23	1:B:302:THR:HG23	1.79	0.64
1:B:349:ILE:HB	1:B:357:LEU:HB2	1.79	0.64
1:C:1481:PRO:HB2	1:C:1492:LEU:HD22	1.79	0.64
1:D:821:THR:HG22	1:D:824:ILE:HG12	1.80	0.64
1:A:821:THR:HG22	1:A:824:ILE:HG12	1.80	0.63
1:B:1481:PRO:HB2	1:B:1492:LEU:HD22	1.79	0.63
1:B:1786:VAL:HG12	1:B:1788:PRO:HD2	1.80	0.63
1:C:1927:MET:SD	1:C:1931:ARG:NH1	2.71	0.63
1:D:2229:ARG:HG3	1:E:2277:LEU:HD11	1.80	0.63
1:E:1025:ARG:NH2	1:E:1744:GLU:OE2	2.30	0.63
1:B:821:THR:HG22	1:B:824:ILE:HG12	1.80	0.63
1:C:167:ASN:ND2	1:C:916:GLU:OE2	2.31	0.63
1:D:301:ILE:HG23	1:D:302:THR:HG23	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1927:MET:SD	1:D:1931:ARG:NH1	2.71	0.63
1:C:2343:LEU:HB3	1:C:2442:PHE:HB2	1.80	0.63
1:D:167:ASN:ND2	1:D:916:GLU:OE2	2.31	0.63
1:B:1219:THR:HG21	1:B:1251:LEU:HB3	1.78	0.63
1:E:1786:VAL:HG12	1:E:1788:PRO:HD2	1.80	0.63
1:E:2343:LEU:HB3	1:E:2442:PHE:HB2	1.80	0.63
1:B:167:ASN:ND2	1:B:916:GLU:OE2	2.31	0.63
1:C:821:THR:HG22	1:C:824:ILE:HG12	1.80	0.63
1:D:322:ILE:HG12	1:E:1867:SER:HB2	1.80	0.63
1:E:821:THR:HG22	1:E:824:ILE:HG12	1.80	0.63
1:B:2343:LEU:HB3	1:B:2442:PHE:HB2	1.80	0.63
1:A:1786:VAL:HG12	1:A:1788:PRO:HD2	1.80	0.63
1:D:537:TYR:OH	1:D:587:ASN:OD1	2.11	0.63
1:C:1049:LEU:HD21	1:C:1757:LEU:HD11	1.81	0.63
1:A:375:GLY:N	1:A:415:GLY:O	2.31	0.62
1:A:1025:ARG:NH2	1:A:1744:GLU:OE2	2.30	0.62
1:D:375:GLY:N	1:D:415:GLY:O	2.31	0.62
1:A:546:MET:HG3	1:A:573:LEU:HD22	1.81	0.62
1:A:2142:ASP:OD2	1:B:2083:TYR:OH	2.12	0.62
1:B:1049:LEU:HD21	1:B:1757:LEU:HD11	1.81	0.62
1:C:142:ARG:NH2	1:C:980:GLU:OE1	2.25	0.62
1:E:2306:TYR:HB3	1:E:2312:THR:HA	1.81	0.62
1:D:546:MET:HG3	1:D:573:LEU:HD22	1.81	0.62
1:A:21:VAL:O	1:A:1885:LYS:NZ	2.33	0.62
1:A:2079:THR:HG21	1:E:2145:SER:OG	1.99	0.62
1:B:142:ARG:NH2	1:B:980:GLU:OE1	2.25	0.62
1:B:375:GLY:N	1:B:415:GLY:O	2.31	0.62
1:D:1025:ARG:NH2	1:D:1744:GLU:OE2	2.30	0.62
1:A:2010:GLU:OE1	1:E:2216:TYR:OH	2.17	0.62
1:D:61:ASN:OD1	1:D:1895:ARG:NH1	2.33	0.62
1:D:1049:LEU:HD21	1:D:1757:LEU:HD11	1.81	0.62
1:E:1612:TYR:HB3	1:E:1646:VAL:HG12	1.82	0.62
1:E:21:VAL:O	1:E:1885:LYS:NZ	2.33	0.62
1:E:61:ASN:OD1	1:E:1895:ARG:NH1	2.33	0.62
1:A:572:LEU:HD12	1:A:609:VAL:HG11	1.81	0.62
1:A:1037:GLU:HG2	1:E:2082:LEU:HD11	1.82	0.62
1:A:1049:LEU:HD21	1:A:1757:LEU:HD11	1.81	0.62
1:A:2306:TYR:HB3	1:A:2312:THR:HA	1.81	0.62
1:D:21:VAL:O	1:D:1885:LYS:NZ	2.33	0.62
1:A:709:ASP:OD1	1:A:709:ASP:N	2.30	0.61
1:B:546:MET:HG3	1:B:573:LEU:HD22	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2123:PRO:HB2	1:E:2100:ALA:HB2	1.82	0.61
1:D:2344:HIS:HE1	1:D:2346:ALA:HB2	1.65	0.61
1:A:2344:HIS:HE1	1:A:2346:ALA:HB2	1.65	0.61
1:B:1695:ARG:NH2	1:B:1699:ASN:O	2.33	0.61
1:B:2001:PHE:CE1	1:C:2273:GLU:HG3	2.36	0.61
1:C:1695:ARG:NH2	1:C:1699:ASN:O	2.33	0.61
1:A:2343:LEU:HB3	1:A:2442:PHE:HB2	1.80	0.61
1:C:572:LEU:HD12	1:C:609:VAL:HG11	1.81	0.61
1:C:2306:TYR:HB3	1:C:2312:THR:HA	1.81	0.61
1:A:422:GLU:HB3	1:A:423:PRO:HD3	1.82	0.61
1:A:2433:ASP:N	1:A:2433:ASP:OD1	2.33	0.61
1:B:61:ASN:OD1	1:B:1895:ARG:NH1	2.33	0.61
1:B:2306:TYR:HB3	1:B:2312:THR:HA	1.81	0.61
1:D:739:ILE:HG12	1:D:752:LEU:HD21	1.82	0.61
1:E:422:GLU:HB3	1:E:423:PRO:HD3	1.82	0.61
1:E:527:PHE:O	1:E:560:ARG:NH2	2.33	0.61
1:A:61:ASN:OD1	1:A:1895:ARG:NH1	2.33	0.61
1:A:527:PHE:O	1:A:560:ARG:NH2	2.33	0.61
1:C:21:VAL:O	1:C:1885:LYS:NZ	2.33	0.61
1:C:61:ASN:OD1	1:C:1895:ARG:NH1	2.33	0.61
1:C:1462:ILE:HD13	1:C:1501:ILE:HG21	1.83	0.61
1:B:21:VAL:O	1:B:1885:LYS:NZ	2.33	0.61
1:B:527:PHE:O	1:B:560:ARG:NH2	2.33	0.61
1:D:2141:ALA:HB1	1:E:2079:THR:HG23	1.82	0.61
1:E:546:MET:HG3	1:E:573:LEU:HD22	1.81	0.61
1:E:999:CYS:O	1:E:1005:THR:OG1	2.18	0.61
1:A:1695:ARG:NH2	1:A:1699:ASN:O	2.33	0.61
1:B:1045:ASN:OD1	1:B:1048:THR:HG22	2.01	0.61
1:D:1462:ILE:HD13	1:D:1501:ILE:HG21	1.83	0.61
1:D:2306:TYR:HB3	1:D:2312:THR:HA	1.81	0.61
1:E:739:ILE:HG12	1:E:752:LEU:HD21	1.82	0.61
1:E:2344:HIS:CD2	1:E:2439:THR:HG23	2.36	0.61
1:A:1744:GLU:HA	1:A:1748:TYR:HB2	1.82	0.61
1:A:2344:HIS:CD2	1:A:2439:THR:HG23	2.36	0.61
1:C:1045:ASN:OD1	1:C:1048:THR:HG22	2.01	0.61
1:D:572:LEU:HD12	1:D:609:VAL:HG11	1.81	0.61
1:E:1049:LEU:HD21	1:E:1757:LEU:HD11	1.81	0.61
1:A:739:ILE:HG12	1:A:752:LEU:HD21	1.82	0.61
1:A:1045:ASN:OD1	1:A:1048:THR:HG22	2.01	0.61
1:B:2344:HIS:CD2	1:B:2439:THR:HG23	2.36	0.61
1:C:739:ILE:HG12	1:C:752:LEU:HD21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:572:LEU:HD12	1:E:609:VAL:HG11	1.82	0.61
1:E:1521:LYS:HG2	1:E:1529:THR:HB	1.82	0.61
1:B:572:LEU:HD12	1:B:609:VAL:HG11	1.82	0.61
1:B:665:ILE:HG13	1:B:729:ILE:HD11	1.83	0.61
1:C:1521:LYS:HG2	1:C:1529:THR:HB	1.82	0.61
1:D:505:MET:HE3	1:D:522:HIS:CD2	2.36	0.61
1:D:665:ILE:HG13	1:D:729:ILE:HD11	1.83	0.61
1:D:1695:ARG:NH2	1:D:1699:ASN:O	2.33	0.61
1:B:739:ILE:HG12	1:B:752:LEU:HD21	1.82	0.60
1:B:1521:LYS:HG2	1:B:1529:THR:HB	1.82	0.60
1:B:1612:TYR:HB3	1:B:1646:VAL:HG12	1.82	0.60
1:C:546:MET:HG3	1:C:573:LEU:HD22	1.81	0.60
1:D:527:PHE:O	1:D:560:ARG:NH2	2.33	0.60
1:D:2344:HIS:CD2	1:D:2439:THR:HG23	2.36	0.60
1:E:1744:GLU:HA	1:E:1748:TYR:HB2	1.82	0.60
1:A:367:LYS:HG3	1:A:368:ASP:H	1.67	0.60
1:C:527:PHE:O	1:C:560:ARG:NH2	2.33	0.60
1:C:999:CYS:O	1:C:1005:THR:OG1	2.18	0.60
1:D:1045:ASN:OD1	1:D:1048:THR:HG22	2.01	0.60
1:B:505:MET:HE3	1:B:522:HIS:CD2	2.36	0.60
1:C:1612:TYR:HB3	1:C:1646:VAL:HG12	1.82	0.60
1:C:2344:HIS:CD2	1:C:2439:THR:HG23	2.36	0.60
1:C:2344:HIS:HE1	1:C:2346:ALA:HB2	1.65	0.60
1:D:1521:LYS:HG2	1:D:1529:THR:HB	1.82	0.60
1:A:1521:LYS:HG2	1:A:1529:THR:HB	1.82	0.60
1:A:2146:GLN:NE2	1:E:2145:SER:OG	2.33	0.60
1:D:319:ILE:HG13	1:D:320:PRO:HD2	1.84	0.60
1:E:142:ARG:NH2	1:E:980:GLU:OE1	2.25	0.60
1:E:367:LYS:HG3	1:E:368:ASP:H	1.67	0.60
1:E:2344:HIS:HE1	1:E:2346:ALA:HB2	1.65	0.60
1:D:422:GLU:HB3	1:D:423:PRO:HD3	1.82	0.60
1:A:1612:TYR:HB3	1:A:1646:VAL:HG12	1.82	0.60
1:D:999:CYS:O	1:D:1005:THR:OG1	2.18	0.60
1:E:1695:ARG:NH2	1:E:1699:ASN:O	2.33	0.60
1:A:1462:ILE:HD13	1:A:1501:ILE:HG21	1.83	0.60
1:C:319:ILE:HG13	1:C:320:PRO:HD2	1.84	0.60
1:D:1744:GLU:HA	1:D:1748:TYR:HB2	1.82	0.60
1:D:2198:GLN:NE2	1:E:2027:GLU:OE2	2.31	0.60
1:B:367:LYS:HG3	1:B:368:ASP:H	1.66	0.60
1:B:2344:HIS:HE1	1:B:2346:ALA:HB2	1.65	0.60
1:D:1283:ASP:H	1:D:1307:THR:HG23	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:319:ILE:HG13	1:E:320:PRO:HD2	1.84	0.60
1:E:674:MET:O	1:E:678:LEU:HD12	2.02	0.60
1:A:505:MET:HE3	1:A:522:HIS:CD2	2.36	0.60
1:A:665:ILE:HG13	1:A:729:ILE:HD11	1.83	0.60
1:C:505:MET:HE3	1:C:522:HIS:CD2	2.36	0.60
1:D:367:LYS:HG3	1:D:368:ASP:H	1.66	0.60
1:E:199:THR:O	1:E:201:TYR:N	2.35	0.60
1:E:505:MET:HE3	1:E:522:HIS:CD2	2.36	0.60
1:E:1283:ASP:H	1:E:1307:THR:HG23	1.67	0.60
1:A:999:CYS:O	1:A:1005:THR:OG1	2.18	0.59
1:A:1283:ASP:H	1:A:1307:THR:HG23	1.67	0.59
1:B:422:GLU:HB3	1:B:423:PRO:HD3	1.82	0.59
1:C:1992:ARG:NH2	1:C:2283:GLU:OE1	2.35	0.59
1:E:1045:ASN:OD1	1:E:1048:THR:HG22	2.01	0.59
1:E:1992:ARG:NH2	1:E:2283:GLU:OE1	2.35	0.59
1:D:674:MET:O	1:D:678:LEU:HD12	2.02	0.59
1:E:2433:ASP:OD1	1:E:2433:ASP:N	2.34	0.59
1:A:199:THR:O	1:A:201:TYR:N	2.35	0.59
1:B:1744:GLU:HA	1:B:1748:TYR:HB2	1.82	0.59
1:C:674:MET:O	1:C:678:LEU:HD12	2.02	0.59
1:E:1462:ILE:HD13	1:E:1501:ILE:HG21	1.83	0.59
1:A:1992:ARG:NH2	1:A:2283:GLU:OE1	2.35	0.59
1:B:319:ILE:HG13	1:B:320:PRO:HD2	1.84	0.59
1:C:422:GLU:HB3	1:C:423:PRO:HD3	1.82	0.59
1:B:2060:ARG:NH2	1:B:2167:GLU:OE1	2.36	0.59
1:C:1744:GLU:HA	1:C:1748:TYR:HB2	1.82	0.59
1:E:220:PRO:HA	1:E:233:LEU:HD23	1.84	0.59
1:E:667:PRO:HB3	1:E:754:ALA:HB2	1.85	0.59
1:A:2344:HIS:CE1	1:A:2346:ALA:HB2	2.38	0.59
1:B:1462:ILE:HD13	1:B:1501:ILE:HG21	1.83	0.59
1:C:1283:ASP:H	1:C:1307:THR:HG23	1.67	0.59
1:D:2209:LYS:HB2	1:E:2013:ASP:OD1	2.03	0.59
1:A:2060:ARG:NH2	1:A:2167:GLU:OE1	2.36	0.59
1:B:199:THR:O	1:B:201:TYR:N	2.35	0.59
1:B:667:PRO:HB3	1:B:754:ALA:HB2	1.85	0.59
1:C:204:PRO:HB3	1:C:893:SER:HA	1.85	0.59
1:C:665:ILE:HG13	1:C:729:ILE:HD11	1.83	0.59
1:C:2204:GLU:OE1	1:D:1962:SER:OG	2.20	0.59
1:E:2406:SER:OG	1:E:2407:HIS:ND1	2.35	0.59
1:A:220:PRO:HA	1:A:233:LEU:HD23	1.84	0.59
1:B:457:ALA:HB2	1:B:467:THR:HG21	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1992:ARG:NH2	1:B:2283:GLU:OE1	2.35	0.59
1:B:2082:LEU:HD11	1:C:1037:GLU:HG2	1.84	0.59
1:C:367:LYS:HG3	1:C:368:ASP:H	1.66	0.59
1:D:1992:ARG:NH2	1:D:2283:GLU:OE1	2.35	0.59
1:D:2344:HIS:CE1	1:D:2346:ALA:HB2	2.38	0.59
1:E:204:PRO:HB3	1:E:893:SER:HA	1.84	0.59
1:E:2344:HIS:CE1	1:E:2346:ALA:HB2	2.38	0.59
1:A:457:ALA:HB2	1:A:467:THR:HG21	1.85	0.59
1:A:667:PRO:HB3	1:A:754:ALA:HB2	1.85	0.59
1:B:256:THR:HG22	1:B:257:GLY:H	1.68	0.59
1:C:457:ALA:HB2	1:C:467:THR:HG21	1.85	0.59
1:D:800:LEU:HD23	1:D:855:LEU:HB3	1.85	0.59
1:D:1612:TYR:HB3	1:D:1646:VAL:HG12	1.82	0.59
1:A:1865:ILE:HA	1:E:294:GLN:NE2	2.18	0.59
1:B:999:CYS:O	1:B:1005:THR:OG1	2.18	0.59
1:C:667:PRO:HB3	1:C:754:ALA:HB2	1.85	0.59
1:C:900:GLN:HA	1:C:903:LEU:HD12	1.85	0.59
1:D:204:PRO:HB3	1:D:893:SER:HA	1.84	0.59
1:E:665:ILE:HG13	1:E:729:ILE:HD11	1.83	0.59
1:E:1310:ILE:HG13	1:E:1311:ASN:H	1.68	0.59
1:B:674:MET:O	1:B:678:LEU:HD12	2.02	0.58
1:C:973:ASN:HD21	1:D:1849:MET:HE3	1.68	0.58
1:A:186:TYR:OH	1:A:926:GLU:OE1	2.19	0.58
1:A:319:ILE:HG13	1:A:320:PRO:HD2	1.84	0.58
1:A:674:MET:O	1:A:678:LEU:HD12	2.02	0.58
1:B:709:ASP:OD1	1:B:709:ASP:N	2.30	0.58
1:C:274:LYS:HA	1:C:277:MET:HG2	1.86	0.58
1:A:256:THR:HG22	1:A:257:GLY:H	1.68	0.58
1:B:1283:ASP:H	1:B:1307:THR:HG23	1.67	0.58
1:B:1630:ASP:OD2	1:B:1632:THR:OG1	2.15	0.58
1:C:220:PRO:HA	1:C:233:LEU:HD23	1.84	0.58
1:C:2344:HIS:CE1	1:C:2346:ALA:HB2	2.38	0.58
1:B:1310:ILE:HG13	1:B:1311:ASN:H	1.68	0.58
1:B:2229:ARG:HD2	1:C:2277:LEU:HD21	1.85	0.58
1:C:800:LEU:HD23	1:C:855:LEU:HB3	1.85	0.58
1:C:2145:SER:OG	1:D:2146:GLN:NE2	2.36	0.58
1:D:199:THR:O	1:D:201:TYR:N	2.35	0.58
1:D:2060:ARG:NH2	1:D:2167:GLU:OE1	2.36	0.58
1:A:800:LEU:HD23	1:A:855:LEU:HB3	1.85	0.58
1:B:2344:HIS:CE1	1:B:2346:ALA:HB2	2.38	0.58
1:C:1310:ILE:HG13	1:C:1311:ASN:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:256:THR:HG22	1:D:257:GLY:H	1.68	0.58
1:E:457:ALA:HB2	1:E:467:THR:HG21	1.85	0.58
1:A:1630:ASP:OD2	1:A:1632:THR:OG1	2.15	0.58
1:B:2078:ARG:NH1	1:C:1040:SER:OG	2.36	0.58
1:C:256:THR:HG22	1:C:257:GLY:H	1.68	0.58
1:C:522:HIS:O	1:C:526:LEU:HB2	2.04	0.58
1:D:1735:SER:O	1:D:1735:SER:OG	2.21	0.58
1:E:522:HIS:O	1:E:526:LEU:HB2	2.04	0.58
1:E:800:LEU:HD23	1:E:855:LEU:HB3	1.85	0.58
1:E:2060:ARG:NH2	1:E:2167:GLU:OE1	2.36	0.58
1:A:678:LEU:HD21	1:A:752:LEU:HD23	1.86	0.58
1:B:800:LEU:HD23	1:B:855:LEU:HB3	1.85	0.58
1:C:199:THR:O	1:C:201:TYR:N	2.35	0.58
1:C:2406:SER:OG	1:C:2407:HIS:ND1	2.35	0.58
1:E:900:GLN:HA	1:E:903:LEU:HD12	1.85	0.58
1:B:2377:ALA:HB2	1:B:2457:LEU:HD13	1.86	0.58
1:C:1982:MET:HE3	1:C:1987:ALA:HA	1.86	0.58
1:D:457:ALA:HB2	1:D:467:THR:HG21	1.85	0.58
1:E:256:THR:HG22	1:E:257:GLY:H	1.68	0.58
1:E:1607:LEU:HD12	1:E:1625:ILE:HD12	1.86	0.58
1:A:204:PRO:HB3	1:A:893:SER:HA	1.84	0.58
1:A:997:ASP:OD1	1:B:1767:ASN:ND2	2.37	0.58
1:B:738:LEU:HD11	1:B:748:ASP:HB3	1.85	0.58
1:B:1751:MET:HE1	1:B:1823:LYS:HG3	1.86	0.58
1:C:364:LYS:O	1:C:418:ARG:NH1	2.37	0.58
1:C:1607:LEU:HD12	1:C:1625:ILE:HD12	1.86	0.58
1:C:1751:MET:HE1	1:C:1823:LYS:HG3	1.86	0.58
1:D:220:PRO:HA	1:D:233:LEU:HD23	1.84	0.58
1:D:1751:MET:HE1	1:D:1823:LYS:HG3	1.86	0.58
1:E:1982:MET:HE3	1:E:1987:ALA:HA	1.86	0.58
1:A:274:LYS:HA	1:A:277:MET:HG2	1.86	0.58
1:A:1310:ILE:HG13	1:A:1311:ASN:H	1.68	0.58
1:B:186:TYR:OH	1:B:926:GLU:OE1	2.19	0.58
1:B:2433:ASP:OD1	1:B:2433:ASP:N	2.33	0.58
1:D:364:LYS:O	1:D:418:ARG:NH1	2.37	0.58
1:D:1310:ILE:HG13	1:D:1311:ASN:H	1.68	0.58
1:A:522:HIS:O	1:A:526:LEU:HB2	2.04	0.57
1:A:528:ASN:HD21	1:A:537:TYR:HB3	1.69	0.57
1:A:1613:ASP:HB3	1:A:1616:THR:HG22	1.86	0.57
1:A:2174:GLN:HA	1:B:2049:ILE:HD11	1.86	0.57
1:B:220:PRO:HA	1:B:233:LEU:HD23	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1607:LEU:HD12	1:D:1625:ILE:HD12	1.86	0.57
1:A:900:GLN:HA	1:A:903:LEU:HD12	1.85	0.57
1:C:678:LEU:HD21	1:C:752:LEU:HD23	1.86	0.57
1:D:738:LEU:HD11	1:D:748:ASP:HB3	1.85	0.57
1:E:174:LEU:HD21	1:E:927:TYR:HA	1.87	0.57
1:E:274:LYS:HA	1:E:277:MET:HG2	1.86	0.57
1:E:528:ASN:HD21	1:E:537:TYR:HB3	1.69	0.57
1:E:678:LEU:HD21	1:E:752:LEU:HD23	1.86	0.57
1:A:142:ARG:NH2	1:A:980:GLU:OE1	2.25	0.57
1:A:738:LEU:HD11	1:A:748:ASP:HB3	1.85	0.57
1:B:1842:ASP:OD2	1:B:1843:THR:N	2.38	0.57
1:B:1982:MET:HE3	1:B:1987:ALA:HA	1.86	0.57
1:D:1613:ASP:HB3	1:D:1616:THR:HG22	1.86	0.57
1:E:186:TYR:OH	1:E:926:GLU:OE1	2.19	0.57
1:B:900:GLN:HA	1:B:903:LEU:HD12	1.85	0.57
1:C:168:GLU:O	1:C:172:THR:HG23	2.05	0.57
1:D:274:LYS:HA	1:D:277:MET:HG2	1.86	0.57
1:A:1982:MET:HE3	1:A:1987:ALA:HA	1.86	0.57
1:B:997:ASP:OD1	1:C:1767:ASN:ND2	2.37	0.57
1:D:709:ASP:OD1	1:D:709:ASP:N	2.30	0.57
1:B:204:PRO:HB3	1:B:893:SER:HA	1.84	0.57
1:C:1630:ASP:OD2	1:C:1632:THR:OG1	2.15	0.57
1:D:667:PRO:HB3	1:D:754:ALA:HB2	1.85	0.57
1:A:1842:ASP:OD2	1:A:1843:THR:N	2.38	0.57
1:B:522:HIS:O	1:B:526:LEU:HB2	2.04	0.57
1:C:528:ASN:HD21	1:C:537:TYR:HB3	1.69	0.57
1:D:678:LEU:HD21	1:D:752:LEU:HD23	1.86	0.57
1:D:900:GLN:HA	1:D:903:LEU:HD12	1.85	0.57
1:E:738:LEU:HD11	1:E:748:ASP:HB3	1.85	0.57
1:E:1751:MET:HE1	1:E:1823:LYS:HG3	1.86	0.57
1:A:174:LEU:HD21	1:A:927:TYR:HA	1.87	0.57
1:A:2204:GLU:O	1:A:2208:ARG:HG2	2.05	0.57
1:B:274:LYS:HA	1:B:277:MET:HG2	1.86	0.57
1:C:374:ILE:HD12	1:C:384:ALA:HB3	1.86	0.57
1:C:2204:GLU:O	1:C:2208:ARG:HG2	2.05	0.57
1:E:1613:ASP:HB3	1:E:1616:THR:HG22	1.86	0.57
1:E:1842:ASP:OD2	1:E:1843:THR:N	2.38	0.57
1:A:1259:VAL:HG22	1:A:1546:ILE:HG23	1.86	0.57
1:A:1735:SER:O	1:A:1735:SER:OG	2.21	0.57
1:A:2218:TRP:CZ3	1:E:680:LEU:HD12	2.40	0.57
1:B:2204:GLU:O	1:B:2208:ARG:HG2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1842:ASP:OD2	1:C:1843:THR:N	2.38	0.57
1:E:1630:ASP:OD2	1:E:1632:THR:OG1	2.15	0.57
1:E:2204:GLU:O	1:E:2208:ARG:HG2	2.05	0.57
1:E:2377:ALA:HB2	1:E:2457:LEU:HD13	1.86	0.57
1:D:168:GLU:O	1:D:172:THR:HG23	2.05	0.57
1:D:1842:ASP:OD2	1:D:1843:THR:N	2.38	0.57
1:A:1751:MET:HE1	1:A:1823:LYS:HG3	1.86	0.56
1:B:168:GLU:O	1:B:172:THR:HG23	2.05	0.56
1:B:322:ILE:HG12	1:C:1867:SER:HB2	1.87	0.56
1:B:973:ASN:HD21	1:C:1849:MET:HE3	1.70	0.56
1:B:1607:LEU:HD12	1:B:1625:ILE:HD12	1.86	0.56
1:C:738:LEU:HD11	1:C:748:ASP:HB3	1.85	0.56
1:D:1982:MET:HE3	1:D:1987:ALA:HA	1.86	0.56
1:D:2204:GLU:O	1:D:2208:ARG:HG2	2.05	0.56
1:E:750:GLU:OE1	1:E:750:GLU:N	2.36	0.56
1:B:374:ILE:HD12	1:B:384:ALA:HB3	1.87	0.56
1:B:1259:VAL:HG22	1:B:1546:ILE:HG23	1.86	0.56
1:C:174:LEU:HD21	1:C:927:TYR:HA	1.87	0.56
1:C:226:ASN:N	1:C:883:GLU:OE1	2.37	0.56
1:D:522:HIS:O	1:D:526:LEU:HB2	2.04	0.56
1:E:648:LEU:HD21	1:E:658:LEU:HD22	1.87	0.56
1:E:1259:VAL:HG22	1:E:1546:ILE:HG23	1.86	0.56
1:A:374:ILE:HD12	1:A:384:ALA:HB3	1.86	0.56
1:A:1607:LEU:HD12	1:A:1625:ILE:HD12	1.86	0.56
1:A:2042:GLU:OE2	1:E:2181:ARG:HD3	2.05	0.56
1:B:364:LYS:O	1:B:418:ARG:NH1	2.37	0.56
1:B:528:ASN:HD21	1:B:537:TYR:HB3	1.69	0.56
1:B:1613:ASP:HB3	1:B:1616:THR:HG22	1.86	0.56
1:C:186:TYR:OH	1:C:926:GLU:OE1	2.19	0.56
1:C:750:GLU:OE1	1:C:750:GLU:N	2.36	0.56
1:C:1259:VAL:HG22	1:C:1546:ILE:HG23	1.86	0.56
1:D:528:ASN:HD21	1:D:537:TYR:HB3	1.69	0.56
1:D:745:THR:OG1	1:D:747:GLY:O	2.23	0.56
1:D:1259:VAL:HG22	1:D:1546:ILE:HG23	1.86	0.56
1:D:1516:ILE:H	1:D:1516:ILE:HD12	1.70	0.56
1:D:2377:ALA:HB2	1:D:2457:LEU:HD13	1.86	0.56
1:A:364:LYS:O	1:A:418:ARG:NH1	2.37	0.56
1:B:678:LEU:HD21	1:B:752:LEU:HD23	1.86	0.56
1:B:2142:ASP:OD2	1:C:2083:TYR:OH	2.21	0.56
1:A:1516:ILE:H	1:A:1516:ILE:HD12	1.71	0.56
1:C:1277:GLU:HA	1:C:1530:THR:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:174:LEU:HD21	1:D:927:TYR:HA	1.87	0.56
1:D:2223:LEU:N	1:E:2270:MET:HE1	2.21	0.56
1:B:174:LEU:HD21	1:B:927:TYR:HA	1.87	0.56
1:C:709:ASP:N	1:C:709:ASP:OD1	2.30	0.56
1:D:226:ASN:N	1:D:883:GLU:OE1	2.37	0.56
1:A:2434:ASP:OD1	1:A:2435:ASP:N	2.34	0.56
1:B:1277:GLU:HA	1:B:1530:THR:HG22	1.88	0.56
1:D:142:ARG:NH2	1:D:980:GLU:OE1	2.25	0.56
1:E:374:ILE:HD12	1:E:384:ALA:HB3	1.87	0.56
1:A:2347:PHE:H	1:A:2438:LEU:N	2.04	0.56
1:B:1073:HIS:HB3	1:B:1261:THR:HG22	1.88	0.56
1:C:1073:HIS:HB3	1:C:1261:THR:HG22	1.88	0.56
1:C:1516:ILE:H	1:C:1516:ILE:HD12	1.70	0.56
1:D:1073:HIS:HB3	1:D:1261:THR:HG22	1.88	0.56
1:D:1277:GLU:HA	1:D:1530:THR:HG22	1.88	0.56
1:A:800:LEU:HD11	1:A:829:LEU:HD11	1.88	0.56
1:B:1516:ILE:H	1:B:1516:ILE:HD12	1.70	0.56
1:C:2377:ALA:HB2	1:C:2457:LEU:HD13	1.86	0.56
1:E:364:LYS:O	1:E:418:ARG:NH1	2.37	0.56
1:E:1516:ILE:HD12	1:E:1516:ILE:H	1.70	0.56
1:B:648:LEU:HD21	1:B:658:LEU:HD22	1.87	0.56
1:D:326:GLY:O	1:D:327:LYS:HE2	2.06	0.56
1:D:374:ILE:HD12	1:D:384:ALA:HB3	1.87	0.56
1:D:2434:ASP:OD1	1:D:2435:ASP:N	2.34	0.56
1:A:191:ALA:HB1	1:A:202:ASN:OD1	2.06	0.55
1:B:1735:SER:O	1:B:1735:SER:OG	2.21	0.55
1:C:648:LEU:HD21	1:C:658:LEU:HD22	1.87	0.55
1:C:1613:ASP:HB3	1:C:1616:THR:HG22	1.86	0.55
1:D:186:TYR:OH	1:D:926:GLU:OE1	2.19	0.55
1:D:1997:GLN:HG2	1:E:2276:LEU:CD2	2.35	0.55
1:E:1073:HIS:HB3	1:E:1261:THR:HG22	1.88	0.55
1:E:1735:SER:O	1:E:1735:SER:OG	2.21	0.55
1:A:1037:GLU:OE2	1:E:2082:LEU:HD21	2.05	0.55
1:A:1277:GLU:HA	1:A:1530:THR:HG22	1.88	0.55
1:A:1566:ARG:NH1	1:A:1730:GLU:OE2	2.39	0.55
1:A:2377:ALA:HB2	1:A:2457:LEU:HD13	1.86	0.55
1:B:800:LEU:HD11	1:B:829:LEU:HD11	1.88	0.55
1:B:1727:GLN:O	1:B:1727:GLN:HG3	2.07	0.55
1:C:191:ALA:HB1	1:C:202:ASN:OD1	2.06	0.55
1:C:1141:ARG:HB2	1:D:1576:ILE:HD11	1.88	0.55
1:C:2001:PHE:CE1	1:D:2273:GLU:HG3	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2060:ARG:NH2	1:C:2167:GLU:OE1	2.36	0.55
1:A:1073:HIS:HB3	1:A:1261:THR:HG22	1.88	0.55
1:C:1727:GLN:HG3	1:C:1727:GLN:O	2.07	0.55
1:D:648:LEU:HD21	1:D:658:LEU:HD22	1.87	0.55
1:D:1566:ARG:NH1	1:D:1730:GLU:OE2	2.40	0.55
1:D:1621:ARG:NH1	1:D:1644:LEU:O	2.40	0.55
1:A:367:LYS:HD2	1:A:420:LYS:HZ2	1.72	0.55
1:C:800:LEU:HD11	1:C:829:LEU:HD11	1.88	0.55
1:C:1621:ARG:NH1	1:C:1644:LEU:O	2.40	0.55
1:C:2347:PHE:H	1:C:2438:LEU:N	2.04	0.55
1:D:800:LEU:HD11	1:D:829:LEU:HD11	1.88	0.55
1:E:2347:PHE:H	1:E:2438:LEU:N	2.04	0.55
1:A:326:GLY:O	1:A:327:LYS:HE2	2.06	0.55
1:B:226:ASN:N	1:B:883:GLU:OE1	2.37	0.55
1:B:1621:ARG:NH1	1:B:1644:LEU:O	2.40	0.55
1:C:202:ASN:HD21	1:C:242:PRO:HD2	1.72	0.55
1:C:324:THR:O	1:C:324:THR:OG1	2.24	0.55
1:C:403:LEU:HD23	1:C:408:LEU:HD11	1.89	0.55
1:E:745:THR:OG1	1:E:747:GLY:O	2.23	0.55
1:E:1277:GLU:HA	1:E:1530:THR:HG22	1.88	0.55
1:A:1621:ARG:NH1	1:A:1644:LEU:O	2.40	0.55
1:A:2078:ARG:NH1	1:B:1040:SER:OG	2.37	0.55
1:A:2451:LYS:O	1:A:2455:LEU:HG	2.07	0.55
1:B:1153:LYS:HD3	1:E:2114:VAL:HG12	1.87	0.55
1:B:2347:PHE:H	1:B:2438:LEU:N	2.04	0.55
1:C:1288:HIS:CD2	1:C:1302:LEU:HD11	2.42	0.55
1:D:202:ASN:HD21	1:D:242:PRO:HD2	1.72	0.55
1:E:324:THR:O	1:E:324:THR:OG1	2.24	0.55
1:E:326:GLY:O	1:E:327:LYS:HE2	2.06	0.55
1:A:168:GLU:O	1:A:172:THR:HG23	2.05	0.55
1:A:1849:MET:HE3	1:E:973:ASN:HD21	1.71	0.55
1:B:202:ASN:HD21	1:B:242:PRO:HD2	1.72	0.55
1:C:326:GLY:O	1:C:327:LYS:HE2	2.06	0.55
1:D:1630:ASP:OD2	1:D:1632:THR:OG1	2.15	0.55
1:D:1999:MET:HE2	1:D:2273:GLU:HA	1.89	0.55
1:B:191:ALA:HB1	1:B:202:ASN:OD1	2.06	0.55
1:D:2127:GLY:O	1:E:2093:ILE:HD12	2.06	0.55
1:A:1288:HIS:CD2	1:A:1302:LEU:HD11	2.42	0.55
1:A:2075:GLU:OE2	1:B:1756:ARG:NH1	2.38	0.55
1:C:2434:ASP:OD1	1:C:2435:ASP:N	2.34	0.55
1:D:1727:GLN:HG3	1:D:1727:GLN:O	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2347:PHE:H	1:D:2438:LEU:N	2.04	0.55
1:D:2406:SER:OG	1:D:2407:HIS:ND1	2.35	0.55
1:E:800:LEU:HD11	1:E:829:LEU:HD11	1.88	0.55
1:E:1727:GLN:O	1:E:1727:GLN:HG3	2.07	0.55
1:E:2434:ASP:OD1	1:E:2435:ASP:N	2.34	0.55
1:E:2451:LYS:O	1:E:2455:LEU:HG	2.07	0.55
1:A:288:LEU:HD13	1:A:464:PRO:HG3	1.89	0.55
1:A:2270:MET:HE1	1:E:2222:ARG:HB3	1.89	0.55
1:B:2451:LYS:O	1:B:2455:LEU:HG	2.07	0.55
1:C:195:ARG:NH1	1:C:926:GLU:OE2	2.39	0.55
1:C:1566:ARG:NH1	1:C:1730:GLU:OE2	2.40	0.55
1:C:2142:ASP:OD2	1:D:2083:TYR:OH	2.20	0.55
1:D:1209:LEU:HD21	1:D:1240:ILE:HD11	1.89	0.55
1:E:168:GLU:O	1:E:172:THR:HG23	2.05	0.55
1:E:1209:LEU:HD21	1:E:1240:ILE:HD11	1.89	0.55
1:A:648:LEU:HD21	1:A:658:LEU:HD22	1.87	0.54
1:B:311:TYR:CE2	1:B:335:LYS:HD2	2.43	0.54
1:B:336:THR:HG21	1:B:413:LYS:HE2	1.89	0.54
1:C:362:VAL:HG13	1:C:365:THR:HG22	1.89	0.54
1:D:1288:HIS:CD2	1:D:1302:LEU:HD11	2.42	0.54
1:E:202:ASN:HD21	1:E:242:PRO:HD2	1.72	0.54
1:E:288:LEU:HD13	1:E:464:PRO:HG3	1.89	0.54
1:E:336:THR:HG21	1:E:413:LYS:HE2	1.89	0.54
1:A:79:GLU:OE2	1:A:1784:TRP:NE1	2.40	0.54
1:A:1099:ARG:HG3	1:A:1119:TRP:CE3	2.43	0.54
1:B:1288:HIS:CD2	1:B:1302:LEU:HD11	2.42	0.54
1:D:2145:SER:OG	1:E:2146:GLN:NE2	2.40	0.54
1:E:403:LEU:HD23	1:E:408:LEU:HD11	1.89	0.54
1:E:1099:ARG:HG3	1:E:1119:TRP:CE3	2.43	0.54
1:A:202:ASN:HD21	1:A:242:PRO:HD2	1.72	0.54
1:A:311:TYR:CE2	1:A:335:LYS:HD2	2.43	0.54
1:B:326:GLY:O	1:B:327:LYS:HE2	2.07	0.54
1:C:311:TYR:CE2	1:C:335:LYS:HD2	2.43	0.54
1:C:838:GLN:O	1:C:841:THR:OG1	2.25	0.54
1:C:1209:LEU:HD21	1:C:1240:ILE:HD11	1.89	0.54
1:E:311:TYR:CE2	1:E:335:LYS:HD2	2.43	0.54
1:E:1288:HIS:CD2	1:E:1302:LEU:HD11	2.42	0.54
1:B:1209:LEU:HD21	1:B:1240:ILE:HD11	1.89	0.54
1:C:288:LEU:HD13	1:C:464:PRO:HG3	1.89	0.54
1:C:336:THR:HG21	1:C:413:LYS:HE2	1.89	0.54
1:C:372:PHE:HB2	1:C:418:ARG:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:171:GLU:OE2	1:D:187:TYR:OH	2.25	0.54
1:D:1099:ARG:HG3	1:D:1119:TRP:CE3	2.43	0.54
1:A:372:PHE:HB2	1:A:418:ARG:HA	1.90	0.54
1:C:2451:LYS:O	1:C:2455:LEU:HG	2.07	0.54
1:D:2451:LYS:O	1:D:2455:LEU:HG	2.07	0.54
1:C:745:THR:OG1	1:C:747:GLY:O	2.23	0.54
1:C:2176:GLU:OE1	1:D:2048:LYS:NZ	2.39	0.54
1:D:362:VAL:HG13	1:D:365:THR:HG22	1.89	0.54
1:E:191:ALA:HB1	1:E:202:ASN:OD1	2.06	0.54
1:E:305:LEU:HD23	1:E:468:GLN:HG2	1.90	0.54
1:E:362:VAL:HG13	1:E:365:THR:HG22	1.89	0.54
1:E:1621:ARG:NH1	1:E:1644:LEU:O	2.40	0.54
1:A:1865:ILE:HD11	1:E:325:GLY:HA2	1.90	0.54
1:B:1099:ARG:HG3	1:B:1119:TRP:CE3	2.43	0.54
1:D:367:LYS:HD2	1:D:420:LYS:HZ2	1.73	0.54
1:D:403:LEU:HD23	1:D:408:LEU:HD11	1.89	0.54
1:A:745:THR:OG1	1:A:747:GLY:O	2.23	0.54
1:C:2433:ASP:OD1	1:C:2433:ASP:N	2.33	0.54
1:D:191:ALA:HB1	1:D:202:ASN:OD1	2.06	0.54
1:E:1566:ARG:NH1	1:E:1730:GLU:OE2	2.39	0.54
1:A:305:LEU:HD23	1:A:468:GLN:HG2	1.90	0.54
1:A:750:GLU:OE1	1:A:750:GLU:N	2.36	0.54
1:B:403:LEU:HD23	1:B:408:LEU:HD11	1.89	0.54
1:B:2123:PRO:HB2	1:C:2100:ALA:HB2	1.90	0.54
1:A:1646:VAL:HG11	1:A:1900:LEU:HD11	1.90	0.54
1:A:1727:GLN:HG3	1:A:1727:GLN:O	2.07	0.54
1:B:288:LEU:HD13	1:B:464:PRO:HG3	1.89	0.54
1:B:838:GLN:O	1:B:841:THR:OG1	2.25	0.54
1:B:868:LEU:O	1:B:870:ILE:N	2.40	0.54
1:C:367:LYS:HD2	1:C:420:LYS:HZ2	1.72	0.54
1:C:884:ASN:OD1	1:C:885:VAL:N	2.41	0.54
1:D:884:ASN:OD1	1:D:885:VAL:N	2.41	0.54
1:E:79:GLU:OE2	1:E:1784:TRP:NE1	2.40	0.54
1:E:884:ASN:OD1	1:E:885:VAL:N	2.41	0.54
1:B:496:TYR:HB3	1:B:604:VAL:HG22	1.91	0.53
1:C:1099:ARG:HG3	1:C:1119:TRP:CE3	2.43	0.53
1:D:311:TYR:CE2	1:D:335:LYS:HD2	2.43	0.53
1:D:838:GLN:O	1:D:841:THR:OG1	2.25	0.53
1:E:868:LEU:O	1:E:870:ILE:N	2.40	0.53
1:A:496:TYR:HB3	1:A:604:VAL:HG22	1.91	0.53
1:A:838:GLN:O	1:A:841:THR:OG1	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1209:LEU:HD21	1:A:1240:ILE:HD11	1.89	0.53
1:A:1213:TYR:HE2	1:A:1215:ILE:HD11	1.74	0.53
1:A:403:LEU:HD23	1:A:408:LEU:HD11	1.89	0.53
1:A:868:LEU:O	1:A:870:ILE:N	2.40	0.53
1:B:367:LYS:HD2	1:B:420:LYS:HZ2	1.73	0.53
1:B:1213:TYR:HE2	1:B:1215:ILE:HD11	1.74	0.53
1:B:1999:MET:HE2	1:B:2273:GLU:HA	1.89	0.53
1:B:2406:SER:OG	1:B:2407:HIS:ND1	2.35	0.53
1:C:79:GLU:OE2	1:C:1784:TRP:NE1	2.40	0.53
1:C:331:SER:HA	1:C:439:PRO:HA	1.91	0.53
1:D:336:THR:HG21	1:D:413:LYS:HE2	1.89	0.53
1:D:1213:TYR:HE2	1:D:1215:ILE:HD11	1.74	0.53
1:E:373:SER:HB2	1:E:417:THR:HB	1.91	0.53
1:A:1999:MET:HE2	1:A:2273:GLU:HA	1.89	0.53
1:B:324:THR:O	1:B:324:THR:OG1	2.24	0.53
1:B:362:VAL:HG13	1:B:365:THR:HG22	1.90	0.53
1:B:745:THR:OG1	1:B:747:GLY:O	2.23	0.53
1:C:2306:TYR:CZ	1:C:2347:PHE:HZ	2.27	0.53
1:A:336:THR:HG21	1:A:413:LYS:HE2	1.89	0.53
1:A:1849:MET:CE	1:E:973:ASN:HD21	2.22	0.53
1:A:1864:SER:O	1:E:294:GLN:NE2	2.41	0.53
1:B:1282:ILE:HG23	1:B:1307:THR:H	1.74	0.53
1:B:1566:ARG:NH1	1:B:1730:GLU:OE2	2.40	0.53
1:C:376:TYR:HB2	1:C:383:LEU:HD11	1.91	0.53
1:C:496:TYR:HB3	1:C:604:VAL:HG22	1.91	0.53
1:D:2374:THR:HG23	1:D:2409:ILE:HA	1.91	0.53
1:E:496:TYR:HB3	1:E:604:VAL:HG22	1.91	0.53
1:E:838:GLN:O	1:E:841:THR:OG1	2.25	0.53
1:A:373:SER:HB2	1:A:417:THR:HB	1.91	0.53
1:B:331:SER:HA	1:B:439:PRO:HA	1.91	0.53
1:C:868:LEU:O	1:C:870:ILE:N	2.40	0.53
1:C:1646:VAL:HG11	1:C:1900:LEU:HD11	1.91	0.53
1:D:305:LEU:HD23	1:D:468:GLN:HG2	1.90	0.53
1:D:376:TYR:HB2	1:D:383:LEU:HD11	1.91	0.53
1:E:372:PHE:HB2	1:E:418:ARG:HA	1.90	0.53
1:E:1999:MET:HE2	1:E:2273:GLU:HA	1.89	0.53
1:A:2374:THR:HG23	1:A:2409:ILE:HA	1.91	0.53
1:C:1282:ILE:HG23	1:C:1307:THR:H	1.74	0.53
1:C:1999:MET:HE2	1:C:2273:GLU:HA	1.89	0.53
1:C:2415:PHE:CZ	1:D:2295:GLU:HG3	2.43	0.53
1:D:868:LEU:O	1:D:870:ILE:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2374:THR:HG23	1:E:2409:ILE:HA	1.91	0.53
1:A:362:VAL:HG13	1:A:365:THR:HG22	1.89	0.53
1:A:376:TYR:HB2	1:A:383:LEU:HD11	1.91	0.53
1:A:1937:ASN:HA	1:E:953:SER:HB3	1.89	0.53
1:C:1213:TYR:HE2	1:C:1215:ILE:HD11	1.74	0.53
1:A:884:ASN:OD1	1:A:885:VAL:N	2.41	0.53
1:A:2306:TYR:CZ	1:A:2347:PHE:HZ	2.27	0.53
1:B:36:SER:HB2	1:B:1489:ARG:NH2	2.23	0.53
1:B:376:TYR:HB2	1:B:383:LEU:HD11	1.91	0.53
1:B:2374:THR:HG23	1:B:2409:ILE:HA	1.91	0.53
1:C:36:SER:HB2	1:C:1489:ARG:NH2	2.23	0.53
1:C:2374:THR:HG23	1:C:2409:ILE:HA	1.91	0.53
1:C:2396:LEU:HD23	1:C:2400:CYS:HB3	1.92	0.53
1:E:376:TYR:HB2	1:E:383:LEU:HD11	1.91	0.53
1:B:305:LEU:HD23	1:B:468:GLN:HG2	1.90	0.52
1:B:372:PHE:HB2	1:B:418:ARG:HA	1.90	0.52
1:C:373:SER:HB2	1:C:417:THR:HB	1.91	0.52
1:D:372:PHE:HB2	1:D:418:ARG:HA	1.90	0.52
1:D:373:SER:HB2	1:D:417:THR:HB	1.91	0.52
1:E:1213:TYR:HE2	1:E:1215:ILE:HD11	1.74	0.52
1:E:1282:ILE:HG23	1:E:1307:THR:H	1.74	0.52
1:E:1283:ASP:OD1	1:E:1307:THR:HG23	2.10	0.52
1:A:36:SER:HB2	1:A:1489:ARG:NH2	2.23	0.52
1:A:2396:LEU:HD23	1:A:2400:CYS:HB3	1.91	0.52
1:D:2407:HIS:HD2	1:D:2409:ILE:HG12	1.75	0.52
1:E:36:SER:HB2	1:E:1489:ARG:NH2	2.23	0.52
1:A:2292:ARG:HH21	1:E:2414:LEU:HD11	1.73	0.52
1:A:2407:HIS:HD2	1:A:2409:ILE:HG12	1.75	0.52
1:B:884:ASN:OD1	1:B:885:VAL:N	2.41	0.52
1:D:288:LEU:HD13	1:D:464:PRO:HG3	1.89	0.52
1:D:496:TYR:HB3	1:D:604:VAL:HG22	1.91	0.52
1:D:1462:ILE:HG13	1:D:1518:VAL:HG22	1.92	0.52
1:E:2407:HIS:HD2	1:E:2409:ILE:HG12	1.75	0.52
1:A:1282:ILE:HG23	1:A:1307:THR:H	1.74	0.52
1:C:973:ASN:HD21	1:D:1849:MET:CE	2.22	0.52
1:C:2082:LEU:HD11	1:D:1037:GLU:HG2	1.90	0.52
1:D:36:SER:HB2	1:D:1489:ARG:NH2	2.23	0.52
1:D:1646:VAL:HG11	1:D:1900:LEU:HD11	1.91	0.52
1:E:906:GLN:C	1:E:906:GLN:OE1	2.53	0.52
1:E:2306:TYR:CZ	1:E:2347:PHE:HZ	2.27	0.52
1:A:906:GLN:C	1:A:906:GLN:OE1	2.53	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1283:ASP:OD1	1:C:1307:THR:HG23	2.09	0.52
1:C:1735:SER:O	1:C:1735:SER:OG	2.21	0.52
1:D:2396:LEU:HD23	1:D:2400:CYS:HB3	1.91	0.52
1:D:2433:ASP:OD1	1:D:2433:ASP:N	2.33	0.52
1:B:2306:TYR:CZ	1:B:2347:PHE:HZ	2.27	0.52
1:C:1159:ASP:OD1	1:C:1159:ASP:N	2.43	0.52
1:D:310:VAL:HG22	1:D:311:TYR:N	2.25	0.52
1:D:750:GLU:OE1	1:D:750:GLU:N	2.36	0.52
1:E:1159:ASP:OD1	1:E:1159:ASP:N	2.43	0.52
1:B:373:SER:HB2	1:B:417:THR:HB	1.91	0.52
1:B:2434:ASP:OD1	1:B:2435:ASP:N	2.34	0.52
1:C:305:LEU:HD23	1:C:468:GLN:HG2	1.90	0.52
1:C:415:GLY:HA2	1:C:432:SER:HA	1.92	0.52
1:D:195:ARG:NH1	1:D:926:GLU:OE2	2.39	0.52
1:D:331:SER:HA	1:D:439:PRO:HA	1.91	0.52
1:D:1462:ILE:HG21	1:D:1501:ILE:HD13	1.92	0.52
1:A:1122:ILE:HD13	1:A:1144:LEU:HD22	1.92	0.52
1:B:685:GLY:H	1:C:2229:ARG:CZ	2.23	0.52
1:B:906:GLN:C	1:B:906:GLN:OE1	2.53	0.52
1:B:1646:VAL:HG11	1:B:1900:LEU:HD11	1.91	0.52
1:E:331:SER:HA	1:E:439:PRO:HA	1.91	0.52
1:E:2396:LEU:HD23	1:E:2400:CYS:HB3	1.91	0.52
1:A:331:SER:HA	1:A:439:PRO:HA	1.91	0.52
1:B:310:VAL:HG22	1:B:311:TYR:N	2.25	0.52
1:B:1283:ASP:OD1	1:B:1307:THR:HG23	2.09	0.52
1:D:1282:ILE:HG23	1:D:1307:THR:H	1.74	0.52
1:D:2306:TYR:CZ	1:D:2347:PHE:HZ	2.27	0.52
1:E:310:VAL:HG22	1:E:311:TYR:N	2.25	0.52
1:E:874:ASP:HB3	1:E:898:LEU:HD21	1.92	0.52
1:E:1462:ILE:HG21	1:E:1501:ILE:HD13	1.92	0.52
1:A:2388:ILE:O	1:A:2441:SER:N	2.43	0.52
1:B:2375:LEU:N	1:B:2408:GLY:O	2.37	0.52
1:C:1910:THR:O	1:C:1910:THR:OG1	2.28	0.52
1:E:415:GLY:HA2	1:E:432:SER:HA	1.91	0.52
1:A:127:ALA:HB2	1:A:972:ILE:HD11	1.92	0.51
1:A:226:ASN:N	1:A:883:GLU:OE1	2.37	0.51
1:B:2388:ILE:O	1:B:2441:SER:N	2.43	0.51
1:C:833:GLU:O	1:C:837:THR:HG23	2.10	0.51
1:D:127:ALA:HB2	1:D:972:ILE:HD11	1.92	0.51
1:D:1283:ASP:OD1	1:D:1307:THR:HG23	2.10	0.51
1:E:127:ALA:HB2	1:E:972:ILE:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:833:GLU:O	1:A:837:THR:HG23	2.10	0.51
1:B:750:GLU:OE1	1:B:750:GLU:N	2.36	0.51
1:B:833:GLU:O	1:B:837:THR:HG23	2.10	0.51
1:B:928:ARG:HA	1:B:932:MET:HB2	1.92	0.51
1:B:1122:ILE:HD13	1:B:1144:LEU:HD22	1.92	0.51
1:C:928:ARG:HA	1:C:932:MET:HB2	1.93	0.51
1:E:833:GLU:O	1:E:837:THR:HG23	2.10	0.51
1:E:1646:VAL:HG11	1:E:1900:LEU:HD11	1.91	0.51
1:E:1910:THR:O	1:E:1910:THR:OG1	2.28	0.51
1:A:759:LEU:O	1:A:763:VAL:HG23	2.11	0.51
1:A:1462:ILE:HG21	1:A:1501:ILE:HD13	1.92	0.51
1:B:759:LEU:O	1:B:763:VAL:HG23	2.11	0.51
1:C:2407:HIS:HD2	1:C:2409:ILE:HG12	1.75	0.51
1:D:79:GLU:OE2	1:D:1784:TRP:NE1	2.40	0.51
1:D:833:GLU:O	1:D:837:THR:HG23	2.10	0.51
1:A:310:VAL:HG22	1:A:311:TYR:N	2.25	0.51
1:A:415:GLY:HA2	1:A:432:SER:HA	1.92	0.51
1:A:1283:ASP:OD1	1:A:1307:THR:HG23	2.10	0.51
1:A:2406:SER:OG	1:A:2407:HIS:ND1	2.35	0.51
1:B:2407:HIS:HD2	1:B:2409:ILE:HG12	1.75	0.51
1:C:127:ALA:HB2	1:C:972:ILE:HD11	1.92	0.51
1:C:906:GLN:OE1	1:C:906:GLN:C	2.53	0.51
1:D:906:GLN:C	1:D:906:GLN:OE1	2.53	0.51
1:E:2388:ILE:O	1:E:2441:SER:N	2.43	0.51
1:A:311:TYR:HE2	1:A:335:LYS:HD2	1.75	0.51
1:B:127:ALA:HB2	1:B:972:ILE:HD11	1.92	0.51
1:D:311:TYR:HE2	1:D:335:LYS:HD2	1.75	0.51
1:E:928:ARG:HA	1:E:932:MET:HB2	1.93	0.51
1:A:874:ASP:HB3	1:A:898:LEU:HD21	1.92	0.51
1:B:1462:ILE:HG21	1:B:1501:ILE:HD13	1.92	0.51
1:B:2082:LEU:HD21	1:C:1037:GLU:OE2	2.11	0.51
1:C:1462:ILE:HG21	1:C:1501:ILE:HD13	1.92	0.51
1:D:533:ASN:HD21	1:E:893:SER:HA	1.75	0.51
1:A:1462:ILE:HG13	1:A:1518:VAL:HG22	1.92	0.51
1:B:311:TYR:HE2	1:B:335:LYS:HD2	1.75	0.51
1:C:513:ARG:NH2	1:C:539:LEU:HD12	2.26	0.51
1:D:513:ARG:NH2	1:D:539:LEU:HD12	2.26	0.51
1:D:2115:GLY:HA3	1:E:2108:ASN:O	2.11	0.51
1:B:255:LEU:HD11	1:B:259:ASP:HB3	1.93	0.51
1:B:1219:THR:HG21	1:B:1251:LEU:CB	2.41	0.51
1:B:1462:ILE:HG13	1:B:1518:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1489:ARG:O	1:B:1489:ARG:NH1	2.34	0.51
1:C:874:ASP:HB3	1:C:898:LEU:HD21	1.92	0.51
1:C:1219:THR:HG21	1:C:1251:LEU:CB	2.41	0.51
1:D:928:ARG:HA	1:D:932:MET:HB2	1.92	0.51
1:E:513:ARG:NH2	1:E:539:LEU:HD12	2.26	0.51
1:B:1034:THR:HA	1:B:1037:GLU:OE1	2.11	0.51
1:C:310:VAL:HG22	1:C:311:TYR:N	2.25	0.51
1:C:759:LEU:O	1:C:763:VAL:HG23	2.11	0.51
1:E:195:ARG:NH1	1:E:926:GLU:OE2	2.39	0.51
1:E:311:TYR:HE2	1:E:335:LYS:HD2	1.75	0.51
1:E:365:THR:HA	1:E:418:ARG:NH1	2.26	0.51
1:E:759:LEU:O	1:E:763:VAL:HG23	2.11	0.51
1:E:1462:ILE:HG13	1:E:1518:VAL:HG22	1.92	0.51
1:A:1159:ASP:OD1	1:A:1159:ASP:N	2.43	0.51
1:B:202:ASN:ND2	1:B:242:PRO:HD2	2.26	0.51
1:D:1002:ARG:HD2	1:E:1846:GLU:CD	2.36	0.51
1:D:1122:ILE:HD13	1:D:1144:LEU:HD22	1.92	0.51
1:E:171:GLU:OE2	1:E:187:TYR:OH	2.25	0.51
1:A:2001:PHE:CE1	1:B:2273:GLU:HG3	2.46	0.50
1:B:415:GLY:HA2	1:B:432:SER:HA	1.92	0.50
1:B:2396:LEU:HD23	1:B:2400:CYS:HB3	1.91	0.50
1:C:255:LEU:HD11	1:C:259:ASP:HB3	1.93	0.50
1:C:1489:ARG:O	1:C:1489:ARG:NH1	2.34	0.50
1:D:365:THR:HA	1:D:418:ARG:NH1	2.26	0.50
1:D:817:SER:OG	1:D:819:THR:HG22	2.11	0.50
1:A:195:ARG:NH1	1:A:926:GLU:OE2	2.39	0.50
1:A:817:SER:OG	1:A:819:THR:HG22	2.11	0.50
1:B:691:THR:C	1:B:693:THR:H	2.19	0.50
1:B:1827:LEU:O	1:B:1831:ARG:HG3	2.12	0.50
1:C:311:TYR:HE2	1:C:335:LYS:HD2	1.75	0.50
1:C:817:SER:OG	1:C:819:THR:HG22	2.11	0.50
1:C:906:GLN:NE2	1:D:1950:VAL:HG13	2.26	0.50
1:D:255:LEU:HD11	1:D:259:ASP:HB3	1.93	0.50
1:E:691:THR:C	1:E:693:THR:H	2.19	0.50
1:E:1122:ILE:HD13	1:E:1144:LEU:HD22	1.92	0.50
1:E:2409:ILE:N	1:E:2411:ASP:OD1	2.44	0.50
1:A:528:ASN:ND2	1:A:537:TYR:H	2.10	0.50
1:A:2017:MET:HB2	1:E:2205:PHE:CE2	2.45	0.50
1:B:304:ARG:O	1:B:305:LEU:HD12	2.12	0.50
1:B:513:ARG:NH2	1:B:539:LEU:HD12	2.26	0.50
1:B:874:ASP:HB3	1:B:898:LEU:HD21	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1910:THR:O	1:B:1910:THR:OG1	2.28	0.50
1:C:365:THR:HG21	1:C:392:LEU:C	2.37	0.50
1:D:874:ASP:HB3	1:D:898:LEU:HD21	1.92	0.50
1:E:226:ASN:N	1:E:883:GLU:OE1	2.37	0.50
1:A:906:GLN:NE2	1:B:1950:VAL:HG13	2.25	0.50
1:B:365:THR:HA	1:B:418:ARG:NH1	2.26	0.50
1:C:691:THR:C	1:C:693:THR:H	2.19	0.50
1:D:202:ASN:ND2	1:D:242:PRO:HD2	2.26	0.50
1:D:415:GLY:HA2	1:D:432:SER:HA	1.92	0.50
1:E:1219:THR:HG21	1:E:1251:LEU:CB	2.41	0.50
1:A:310:VAL:HG22	1:A:311:TYR:H	1.77	0.50
1:A:928:ARG:HA	1:A:932:MET:HB2	1.92	0.50
1:A:1297:ASN:HB3	1:A:1503:ILE:HG13	1.94	0.50
1:B:79:GLU:OE2	1:B:1784:TRP:NE1	2.40	0.50
1:B:1297:ASN:HB3	1:B:1503:ILE:HG13	1.94	0.50
1:D:759:LEU:O	1:D:763:VAL:HG23	2.11	0.50
1:D:1219:THR:HG21	1:D:1251:LEU:CB	2.41	0.50
1:A:255:LEU:HD11	1:A:259:ASP:HB3	1.93	0.50
1:A:279:LEU:HD21	1:A:294:GLN:HB2	1.94	0.50
1:A:685:GLY:H	1:B:2229:ARG:CZ	2.24	0.50
1:A:1034:THR:HA	1:A:1037:GLU:OE1	2.11	0.50
1:A:1219:THR:HG21	1:A:1251:LEU:CB	2.41	0.50
1:A:1827:LEU:O	1:A:1831:ARG:HG3	2.12	0.50
1:C:310:VAL:HG22	1:C:311:TYR:H	1.77	0.50
1:C:365:THR:HA	1:C:418:ARG:NH1	2.26	0.50
1:C:1122:ILE:HD13	1:C:1144:LEU:HD22	1.92	0.50
1:C:1297:ASN:HB3	1:C:1503:ILE:HG13	1.94	0.50
1:C:1462:ILE:HG13	1:C:1518:VAL:HG22	1.92	0.50
1:C:2143:ASN:ND2	1:E:1041:GLN:OE1	2.44	0.50
1:D:528:ASN:ND2	1:D:537:TYR:H	2.10	0.50
1:D:1297:ASN:HB3	1:D:1503:ILE:HG13	1.94	0.50
1:E:304:ARG:O	1:E:305:LEU:HD12	2.12	0.50
1:E:1489:ARG:O	1:E:1489:ARG:NH1	2.34	0.50
1:A:247:ILE:HD13	1:A:455:ARG:NH1	2.27	0.50
1:A:2326:SER:N	1:A:2339:ALA:O	2.45	0.50
1:A:2375:LEU:N	1:A:2408:GLY:O	2.37	0.50
1:B:1286:ILE:HG13	1:B:1304:LEU:HG	1.94	0.50
1:D:973:ASN:HD21	1:E:1849:MET:HE3	1.76	0.50
1:D:1034:THR:HA	1:D:1037:GLU:OE1	2.11	0.50
1:D:2174:GLN:HA	1:E:2049:ILE:HD11	1.92	0.50
1:E:310:VAL:HG22	1:E:311:TYR:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:528:ASN:ND2	1:E:537:TYR:H	2.10	0.50
1:A:543:ASP:O	1:A:544:ILE:HG12	2.12	0.50
1:A:691:THR:C	1:A:693:THR:H	2.19	0.50
1:B:365:THR:HG21	1:B:392:LEU:C	2.37	0.50
1:C:171:GLU:OE2	1:C:187:TYR:OH	2.25	0.50
1:D:304:ARG:O	1:D:305:LEU:HD12	2.12	0.50
1:D:365:THR:HG21	1:D:392:LEU:C	2.37	0.50
1:E:202:ASN:ND2	1:E:242:PRO:HD2	2.26	0.50
1:B:2326:SER:N	1:B:2339:ALA:O	2.45	0.50
1:B:2409:ILE:N	1:B:2411:ASP:OD1	2.44	0.50
1:C:528:ASN:ND2	1:C:537:TYR:H	2.10	0.50
1:C:1827:LEU:O	1:C:1831:ARG:HG3	2.12	0.50
1:D:1827:LEU:O	1:D:1831:ARG:HG3	2.11	0.50
1:E:247:ILE:HD13	1:E:455:ARG:NH1	2.27	0.50
1:E:279:LEU:HD21	1:E:294:GLN:HB2	1.94	0.50
1:E:365:THR:HG21	1:E:392:LEU:C	2.37	0.50
1:E:817:SER:OG	1:E:819:THR:HG22	2.11	0.50
1:A:184:ASN:ND2	1:E:535:VAL:HG22	2.27	0.49
1:A:202:ASN:ND2	1:A:242:PRO:HD2	2.26	0.49
1:A:513:ARG:NH2	1:A:539:LEU:HD12	2.26	0.49
1:B:817:SER:OG	1:B:819:THR:HG22	2.11	0.49
1:B:2343:LEU:HD12	1:B:2344:HIS:H	1.77	0.49
1:C:2379:VAL:HA	1:C:2453:LEU:HD22	1.94	0.49
1:D:324:THR:O	1:D:324:THR:OG1	2.25	0.49
1:D:1286:ILE:HG13	1:D:1304:LEU:HG	1.94	0.49
1:D:1732:MET:O	1:D:1787:ARG:NH2	2.42	0.49
1:D:1836:TYR:CD2	1:D:1941:ILE:HD12	2.47	0.49
1:D:2343:LEU:HD12	1:D:2344:HIS:H	1.77	0.49
1:E:1297:ASN:HB3	1:E:1503:ILE:HG13	1.94	0.49
1:E:2375:LEU:N	1:E:2408:GLY:O	2.37	0.49
1:A:365:THR:HA	1:A:418:ARG:NH1	2.26	0.49
1:B:543:ASP:O	1:B:544:ILE:HG12	2.12	0.49
1:B:1159:ASP:OD1	1:B:1159:ASP:N	2.43	0.49
1:D:279:LEU:HD21	1:D:294:GLN:HB2	1.94	0.49
1:E:255:LEU:HD11	1:E:259:ASP:HB3	1.93	0.49
1:A:365:THR:HG21	1:A:392:LEU:C	2.37	0.49
1:A:1732:MET:O	1:A:1787:ARG:NH2	2.42	0.49
1:B:310:VAL:HG22	1:B:311:TYR:H	1.77	0.49
1:B:528:ASN:ND2	1:B:537:TYR:H	2.10	0.49
1:B:1620:ASN:HD21	1:B:1622:ALA:HB3	1.77	0.49
1:C:202:ASN:ND2	1:C:242:PRO:HD2	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:247:ILE:HD13	1:C:455:ARG:NH1	2.27	0.49
1:C:420:LYS:HB2	1:C:423:PRO:O	2.12	0.49
1:C:1034:THR:HA	1:C:1037:GLU:OE1	2.11	0.49
1:E:420:LYS:HB2	1:E:423:PRO:O	2.12	0.49
1:E:2326:SER:N	1:E:2339:ALA:O	2.45	0.49
1:A:304:ARG:O	1:A:305:LEU:HD12	2.12	0.49
1:A:1286:ILE:HG13	1:A:1304:LEU:HG	1.94	0.49
1:A:2082:LEU:HD11	1:B:1037:GLU:HG2	1.95	0.49
1:A:2273:GLU:HB3	1:E:2226:ILE:HD13	1.94	0.49
1:A:2409:ILE:N	1:A:2411:ASP:OD1	2.44	0.49
1:B:1708:SER:O	1:B:1710:ASN:N	2.46	0.49
1:C:304:ARG:O	1:C:305:LEU:HD12	2.12	0.49
1:D:1061:GLU:HA	1:D:1572:THR:HG21	1.94	0.49
1:D:2326:SER:N	1:D:2339:ALA:O	2.45	0.49
1:D:2379:VAL:HA	1:D:2453:LEU:HD22	1.95	0.49
1:E:1620:ASN:HD21	1:E:1622:ALA:HB3	1.77	0.49
1:E:1836:TYR:CD2	1:E:1941:ILE:HD12	2.47	0.49
1:B:279:LEU:HD21	1:B:294:GLN:HB2	1.94	0.49
1:B:2216:TYR:OH	1:C:2010:GLU:OE1	2.28	0.49
1:C:659:MET:O	1:C:663:ASP:HB2	2.13	0.49
1:C:1836:TYR:CD2	1:C:1941:ILE:HD12	2.47	0.49
1:C:1925:TRP:O	1:C:1929:GLU:HG3	2.13	0.49
1:C:2326:SER:N	1:C:2339:ALA:O	2.45	0.49
1:C:2459:ASP:OD2	1:C:2460:ILE:N	2.46	0.49
1:D:310:VAL:HG22	1:D:311:TYR:H	1.77	0.49
1:D:420:LYS:HB2	1:D:423:PRO:O	2.12	0.49
1:D:1620:ASN:HD21	1:D:1622:ALA:HB3	1.77	0.49
1:D:1925:TRP:O	1:D:1929:GLU:HG3	2.13	0.49
1:D:2459:ASP:OD2	1:D:2460:ILE:N	2.46	0.49
1:E:345:TYR:O	1:E:360:PHE:HA	2.13	0.49
1:E:543:ASP:O	1:E:544:ILE:HG12	2.12	0.49
1:E:1034:THR:HA	1:E:1037:GLU:OE1	2.11	0.49
1:E:2343:LEU:HD12	1:E:2344:HIS:H	1.77	0.49
1:A:345:TYR:O	1:A:360:PHE:HA	2.13	0.49
1:A:1925:TRP:O	1:A:1929:GLU:HG3	2.13	0.49
1:A:2270:MET:SD	1:E:2223:LEU:HB2	2.52	0.49
1:B:420:LYS:HB2	1:B:423:PRO:O	2.12	0.49
1:C:1061:GLU:HA	1:C:1572:THR:HG21	1.94	0.49
1:D:247:ILE:HD13	1:D:455:ARG:NH1	2.27	0.49
1:D:642:SER:O	1:D:646:GLN:HG2	2.13	0.49
1:D:691:THR:C	1:D:693:THR:H	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1299:ILE:HG22	1:D:1500:SER:HA	1.95	0.49
1:D:1708:SER:O	1:D:1710:ASN:N	2.46	0.49
1:D:1910:THR:O	1:D:1910:THR:OG1	2.27	0.49
1:E:659:MET:O	1:E:663:ASP:HB2	2.13	0.49
1:E:1827:LEU:O	1:E:1831:ARG:HG3	2.12	0.49
1:A:845:GLN:HG3	1:A:854:GLN:CD	2.38	0.49
1:A:1105:LYS:HB2	1:A:1115:ALA:HB2	1.95	0.49
1:A:1624:THR:OG1	1:A:1626:TYR:HE1	1.96	0.49
1:A:1708:SER:O	1:A:1710:ASN:N	2.46	0.49
1:A:2343:LEU:HD12	1:A:2344:HIS:H	1.77	0.49
1:B:1624:THR:OG1	1:B:1626:TYR:HE1	1.96	0.49
1:D:1105:LYS:HB2	1:D:1115:ALA:HB2	1.95	0.49
1:E:1061:GLU:HA	1:E:1572:THR:HG21	1.94	0.49
1:E:1299:ILE:HG22	1:E:1500:SER:HA	1.95	0.49
1:E:2459:ASP:OD2	1:E:2460:ILE:N	2.46	0.49
1:A:128:ARG:HD3	1:A:1881:LYS:NZ	2.28	0.49
1:A:659:MET:O	1:A:663:ASP:HB2	2.13	0.49
1:B:686:ILE:H	1:B:686:ILE:HD12	1.78	0.49
1:B:845:GLN:HG3	1:B:854:GLN:CD	2.38	0.49
1:C:279:LEU:HD21	1:C:294:GLN:HB2	1.94	0.49
1:C:543:ASP:O	1:C:544:ILE:HG12	2.12	0.49
1:C:1624:THR:OG1	1:C:1626:TYR:HE1	1.96	0.49
1:C:2409:ILE:N	1:C:2411:ASP:OD1	2.45	0.49
1:D:375:GLY:O	1:D:414:ILE:HG13	2.13	0.49
1:D:840:LEU:O	1:D:844:GLY:HA2	2.13	0.49
1:E:1286:ILE:HG13	1:E:1304:LEU:HG	1.94	0.49
1:E:1925:TRP:O	1:E:1929:GLU:HG3	2.13	0.49
1:A:420:LYS:HB2	1:A:423:PRO:O	2.12	0.49
1:A:897:GLY:HA3	1:E:556:GLU:OE2	2.12	0.49
1:A:1299:ILE:HG22	1:A:1500:SER:HA	1.95	0.49
1:A:1620:ASN:HD21	1:A:1622:ALA:HB3	1.77	0.49
1:B:659:MET:O	1:B:663:ASP:HB2	2.13	0.49
1:B:1836:TYR:CD2	1:B:1941:ILE:HD12	2.47	0.49
1:B:2379:VAL:HA	1:B:2453:LEU:HD22	1.95	0.49
1:C:375:GLY:O	1:C:414:ILE:HG13	2.12	0.49
1:C:1620:ASN:HD21	1:C:1622:ALA:HB3	1.77	0.49
1:D:2409:ILE:N	1:D:2411:ASP:OD1	2.45	0.49
1:E:2379:VAL:HA	1:E:2453:LEU:HD22	1.94	0.49
1:A:322:ILE:HG12	1:B:1867:SER:HB2	1.95	0.49
1:A:642:SER:O	1:A:646:GLN:HG2	2.13	0.49
1:A:840:LEU:O	1:A:844:GLY:HA2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2459:ASP:OD2	1:A:2460:ILE:N	2.46	0.49
1:B:185:LYS:O	1:B:189:THR:HG23	2.13	0.49
1:B:474:VAL:HB	1:B:477:ASP:HB2	1.95	0.49
1:B:2222:ARG:HB3	1:C:2270:MET:HE1	1.95	0.49
1:D:845:GLN:HG3	1:D:854:GLN:CD	2.38	0.49
1:E:686:ILE:H	1:E:686:ILE:HD12	1.78	0.49
1:B:375:GLY:O	1:B:414:ILE:HG13	2.12	0.48
1:C:840:LEU:O	1:C:844:GLY:HA2	2.13	0.48
1:C:2174:GLN:HA	1:D:2049:ILE:HD11	1.95	0.48
1:E:149:LEU:O	1:E:1875:LEU:N	2.46	0.48
1:A:375:GLY:O	1:A:414:ILE:HG13	2.13	0.48
1:A:1836:TYR:CD2	1:A:1941:ILE:HD12	2.47	0.48
1:A:2082:LEU:HB3	1:E:2141:ALA:HB2	1.95	0.48
1:B:1105:LYS:HB2	1:B:1115:ALA:HB2	1.95	0.48
1:B:1925:TRP:O	1:B:1929:GLU:HG3	2.13	0.48
1:C:1286:ILE:HG13	1:C:1304:LEU:HG	1.94	0.48
1:C:1316:LYS:H	1:C:1317:LEU:HD23	1.78	0.48
1:D:345:TYR:O	1:D:360:PHE:HA	2.13	0.48
1:D:1624:THR:OG1	1:D:1626:TYR:HE1	1.96	0.48
1:E:128:ARG:HD3	1:E:1881:LYS:NZ	2.28	0.48
1:E:845:GLN:HG3	1:E:854:GLN:CD	2.38	0.48
1:E:1708:SER:O	1:E:1710:ASN:N	2.46	0.48
1:A:471:LEU:HB3	1:A:473:HIS:NE2	2.29	0.48
1:B:128:ARG:HD3	1:B:1881:LYS:NZ	2.28	0.48
1:C:642:SER:O	1:C:646:GLN:HG2	2.13	0.48
1:C:2259:SER:OG	1:C:2260:GLY:N	2.47	0.48
1:C:2302:LEU:HD22	1:C:2347:PHE:CE2	2.48	0.48
1:C:2343:LEU:HD12	1:C:2344:HIS:H	1.77	0.48
1:D:2236:ALA:HB3	1:E:2284:GLN:OE1	2.13	0.48
1:E:546:MET:SD	1:E:569:LEU:HG	2.53	0.48
1:E:1732:MET:O	1:E:1787:ARG:NH2	2.42	0.48
1:A:1910:THR:O	1:A:1910:THR:OG1	2.27	0.48
1:B:2459:ASP:OD2	1:B:2460:ILE:N	2.45	0.48
1:C:471:LEU:HB3	1:C:473:HIS:NE2	2.29	0.48
1:C:1299:ILE:HG22	1:C:1500:SER:HA	1.95	0.48
1:C:1708:SER:O	1:C:1710:ASN:N	2.46	0.48
1:E:185:LYS:O	1:E:189:THR:HG23	2.13	0.48
1:E:375:GLY:O	1:E:414:ILE:HG13	2.12	0.48
1:E:1316:LYS:H	1:E:1317:LEU:HD23	1.78	0.48
1:E:2259:SER:OG	1:E:2260:GLY:N	2.47	0.48
1:A:803:ARG:HH12	1:A:859:PRO:HA	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1316:LYS:H	1:A:1317:LEU:HD23	1.78	0.48
1:A:2038:GLN:HG3	1:E:2187:MET:SD	2.53	0.48
1:B:195:ARG:NH1	1:B:926:GLU:OE2	2.39	0.48
1:B:247:ILE:HD13	1:B:455:ARG:NH1	2.27	0.48
1:B:345:TYR:O	1:B:360:PHE:HA	2.13	0.48
1:B:546:MET:SD	1:B:569:LEU:HG	2.53	0.48
1:B:642:SER:O	1:B:646:GLN:HG2	2.13	0.48
1:B:873:LYS:O	1:B:876:THR:HG22	2.14	0.48
1:B:1517:LYS:HD3	1:B:1531:THR:OG1	2.14	0.48
1:C:185:LYS:O	1:C:189:THR:HG23	2.13	0.48
1:C:546:MET:SD	1:C:569:LEU:HG	2.53	0.48
1:D:543:ASP:O	1:D:544:ILE:HG12	2.12	0.48
1:D:546:MET:SD	1:D:569:LEU:HG	2.53	0.48
1:D:659:MET:O	1:D:663:ASP:HB2	2.13	0.48
1:D:803:ARG:HH12	1:D:859:PRO:HA	1.79	0.48
1:D:2375:LEU:N	1:D:2408:GLY:O	2.37	0.48
1:E:474:VAL:HB	1:E:477:ASP:HB2	1.95	0.48
1:E:803:ARG:HH12	1:E:859:PRO:HA	1.79	0.48
1:A:419:LYS:HG3	1:A:424:ALA:HB3	1.96	0.48
1:A:1249:HIS:HB3	1:A:1543:GLN:CD	2.39	0.48
1:B:630:ASP:OD1	1:B:630:ASP:N	2.46	0.48
1:B:1316:LYS:H	1:B:1317:LEU:HD23	1.78	0.48
1:C:845:GLN:HG3	1:C:854:GLN:CD	2.38	0.48
1:D:128:ARG:HD3	1:D:1881:LYS:NZ	2.28	0.48
1:D:471:LEU:HB3	1:D:473:HIS:NE2	2.29	0.48
1:D:474:VAL:HB	1:D:477:ASP:HB2	1.95	0.48
1:D:1316:LYS:H	1:D:1317:LEU:HD23	1.78	0.48
1:D:2388:ILE:O	1:D:2441:SER:N	2.43	0.48
1:E:840:LEU:O	1:E:844:GLY:HA2	2.13	0.48
1:E:1249:HIS:HB3	1:E:1543:GLN:CD	2.39	0.48
1:A:1776:PRO:HB2	1:E:977:ALA:HA	1.95	0.48
1:A:2259:SER:OG	1:A:2260:GLY:N	2.47	0.48
1:B:777:GLN:O	1:B:780:SER:OG	2.32	0.48
1:C:710:ILE:O	1:C:713:SER:OG	2.30	0.48
1:D:1613:ASP:N	1:D:1617:HIS:HD2	2.07	0.48
1:D:2259:SER:OG	1:D:2260:GLY:N	2.47	0.48
1:E:1624:THR:OG1	1:E:1626:TYR:HE1	1.96	0.48
1:A:185:LYS:O	1:A:189:THR:HG23	2.13	0.48
1:A:1061:GLU:HA	1:A:1572:THR:HG21	1.94	0.48
1:A:2017:MET:HB2	1:E:2205:PHE:HE2	1.78	0.48
1:B:149:LEU:O	1:B:1875:LEU:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1061:GLU:HA	1:B:1572:THR:HG21	1.94	0.48
1:B:2042:GLU:O	1:B:2046:GLU:HG2	2.14	0.48
1:C:2145:SER:OG	1:D:2079:THR:HG21	2.14	0.48
1:E:630:ASP:OD1	1:E:630:ASP:N	2.46	0.48
1:E:777:GLN:O	1:E:780:SER:OG	2.32	0.48
1:A:474:VAL:HB	1:A:477:ASP:HB2	1.95	0.48
1:A:546:MET:SD	1:A:569:LEU:HG	2.53	0.48
1:A:2379:VAL:HA	1:A:2453:LEU:HD22	1.94	0.48
1:B:1299:ILE:HG22	1:B:1500:SER:HA	1.95	0.48
1:B:1732:MET:O	1:B:1787:ARG:NH2	2.42	0.48
1:B:2302:LEU:HD22	1:B:2347:PHE:CE2	2.48	0.48
1:C:1105:LYS:HB2	1:C:1115:ALA:HB2	1.95	0.48
1:D:2155:GLN:OE1	1:E:2067:LEU:HD21	2.14	0.48
1:D:2223:LEU:HB2	1:E:2270:MET:CE	2.43	0.48
1:E:572:LEU:O	1:E:576:THR:OG1	2.32	0.48
1:E:642:SER:O	1:E:646:GLN:HG2	2.13	0.48
1:A:2302:LEU:HD22	1:A:2347:PHE:CE2	2.48	0.48
1:B:471:LEU:HB3	1:B:473:HIS:NE2	2.29	0.48
1:C:474:VAL:HB	1:C:477:ASP:HB2	1.95	0.48
1:C:1249:HIS:HB3	1:C:1543:GLN:CD	2.39	0.48
1:C:1613:ASP:N	1:C:1617:HIS:HD2	2.07	0.48
1:D:124:TYR:OH	1:D:140:ASP:OD1	2.24	0.48
1:D:185:LYS:O	1:D:189:THR:HG23	2.13	0.48
1:D:419:LYS:HG3	1:D:424:ALA:HB3	1.96	0.48
1:D:1517:LYS:HD3	1:D:1531:THR:OG1	2.14	0.48
1:D:2346:ALA:HB1	1:D:2437:SER:HB3	1.96	0.48
1:A:777:GLN:O	1:A:780:SER:OG	2.32	0.47
1:A:1186:GLU:O	1:A:1188:ASN:N	2.47	0.47
1:A:1489:ARG:O	1:A:1489:ARG:NH1	2.34	0.47
1:B:840:LEU:O	1:B:844:GLY:HA2	2.13	0.47
1:B:2259:SER:OG	1:B:2260:GLY:N	2.47	0.47
1:B:2368:ILE:HG12	1:B:2430:ILE:O	2.14	0.47
1:E:494:LYS:HB2	1:E:494:LYS:HE3	1.69	0.47
1:E:1253:THR:OG1	1:E:1256:THR:HG22	2.14	0.47
1:E:2346:ALA:HB1	1:E:2437:SER:HB3	1.96	0.47
1:A:1517:LYS:HD3	1:A:1531:THR:OG1	2.14	0.47
1:B:339:ASP:OD2	1:B:343:ALA:N	2.47	0.47
1:C:419:LYS:HG3	1:C:424:ALA:HB3	1.96	0.47
1:C:662:LEU:HD11	1:C:787:THR:HA	1.96	0.47
1:C:1517:LYS:HD3	1:C:1531:THR:OG1	2.14	0.47
1:C:2388:ILE:O	1:C:2441:SER:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:873:LYS:O	1:D:876:THR:HG22	2.14	0.47
1:D:2342:GLN:N	1:D:2342:GLN:OE1	2.47	0.47
1:E:359:ASN:OD1	1:E:398:SER:OG	2.19	0.47
1:E:1105:LYS:HB2	1:E:1115:ALA:HB2	1.95	0.47
1:A:301:ILE:HA	1:A:319:ILE:HD11	1.97	0.47
1:A:572:LEU:O	1:A:576:THR:OG1	2.32	0.47
1:A:630:ASP:N	1:A:630:ASP:OD1	2.46	0.47
1:A:686:ILE:HD12	1:A:686:ILE:H	1.78	0.47
1:B:662:LEU:HD11	1:B:787:THR:HA	1.96	0.47
1:C:128:ARG:HD3	1:C:1881:LYS:NZ	2.28	0.47
1:C:777:GLN:O	1:C:780:SER:OG	2.32	0.47
1:C:2137:THR:HG23	1:D:2082:LEU:HD22	1.95	0.47
1:D:2302:LEU:HD22	1:D:2347:PHE:CE2	2.48	0.47
1:E:1186:GLU:O	1:E:1188:ASN:N	2.47	0.47
1:B:395:GLU:HB3	1:B:397:TYR:CE2	2.50	0.47
1:B:803:ARG:HH12	1:B:859:PRO:HA	1.79	0.47
1:B:1123:THR:HB	1:E:2130:MET:HE3	1.97	0.47
1:C:301:ILE:HA	1:C:319:ILE:HD11	1.97	0.47
1:D:730:LEU:HD11	1:D:751:LYS:HG2	1.97	0.47
1:D:777:GLN:O	1:D:780:SER:OG	2.32	0.47
1:A:395:GLU:HB3	1:A:397:TYR:CE2	2.50	0.47
1:A:686:ILE:HG23	1:A:740:ILE:HD13	1.97	0.47
1:A:730:LEU:HD11	1:A:751:LYS:HG2	1.97	0.47
1:B:354:ASN:OD1	1:B:404:ASP:HA	2.15	0.47
1:B:1249:HIS:HB3	1:B:1543:GLN:CD	2.39	0.47
1:C:686:ILE:H	1:C:686:ILE:HD12	1.78	0.47
1:C:873:LYS:O	1:C:876:THR:HG22	2.14	0.47
1:C:1186:GLU:O	1:C:1188:ASN:N	2.47	0.47
1:C:2042:GLU:O	1:C:2046:GLU:HG2	2.14	0.47
1:D:305:LEU:HD11	1:D:465:HIS:HE1	1.79	0.47
1:D:662:LEU:HD11	1:D:787:THR:HA	1.96	0.47
1:D:1249:HIS:HB3	1:D:1543:GLN:CD	2.39	0.47
1:D:1253:THR:OG1	1:D:1256:THR:HG22	2.14	0.47
1:E:36:SER:HB2	1:E:1489:ARG:HH21	1.80	0.47
1:E:1517:LYS:HD3	1:E:1531:THR:OG1	2.14	0.47
1:E:2302:LEU:HD22	1:E:2347:PHE:CE2	2.48	0.47
1:A:1509:ILE:HA	1:A:1510:ASN:HA	1.62	0.47
1:B:686:ILE:HG23	1:B:740:ILE:HD13	1.97	0.47
1:C:354:ASN:OD1	1:C:404:ASP:HA	2.15	0.47
1:C:2305:VAL:O	1:C:2308:THR:OG1	2.31	0.47
1:C:2342:GLN:OE1	1:C:2342:GLN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:339:ASP:OD2	1:D:343:ALA:N	2.47	0.47
1:D:686:ILE:HD12	1:D:686:ILE:H	1.78	0.47
1:D:1186:GLU:O	1:D:1188:ASN:N	2.48	0.47
1:D:2368:ILE:HG12	1:D:2430:ILE:O	2.14	0.47
1:E:395:GLU:HB3	1:E:397:TYR:CE2	2.50	0.47
1:A:273:ILE:HD12	1:A:273:ILE:H	1.80	0.47
1:A:354:ASN:OD1	1:A:404:ASP:HA	2.15	0.47
1:A:1253:THR:OG1	1:A:1256:THR:HG22	2.14	0.47
1:A:2009:ILE:HG21	1:E:2210:PHE:CD2	2.50	0.47
1:A:2042:GLU:O	1:A:2046:GLU:HG2	2.14	0.47
1:A:2102:ALA:HB2	1:C:1093:PRO:HG3	1.96	0.47
1:A:2346:ALA:HB1	1:A:2437:SER:HB3	1.96	0.47
1:B:419:LYS:HG3	1:B:424:ALA:HB3	1.96	0.47
1:B:842:LEU:HD12	1:B:861:ARG:HG2	1.97	0.47
1:B:1253:THR:OG1	1:B:1256:THR:HG22	2.14	0.47
1:C:345:TYR:O	1:C:360:PHE:HA	2.13	0.47
1:C:803:ARG:HH12	1:C:859:PRO:HA	1.79	0.47
1:C:842:LEU:HD12	1:C:861:ARG:HG2	1.97	0.47
1:C:2368:ILE:HG12	1:C:2430:ILE:O	2.14	0.47
1:D:301:ILE:HA	1:D:319:ILE:HD11	1.97	0.47
1:D:630:ASP:OD1	1:D:630:ASP:N	2.46	0.47
1:D:1159:ASP:OD1	1:D:1159:ASP:N	2.43	0.47
1:D:1310:ILE:HG13	1:D:1311:ASN:N	2.30	0.47
1:D:2042:GLU:O	1:D:2046:GLU:HG2	2.14	0.47
1:D:2226:ILE:HA	1:E:2277:LEU:HD22	1.95	0.47
1:E:471:LEU:HB3	1:E:473:HIS:NE2	2.29	0.47
1:E:686:ILE:HG23	1:E:740:ILE:HD13	1.97	0.47
1:E:730:LEU:HD11	1:E:751:LYS:HG2	1.97	0.47
1:E:873:LYS:O	1:E:876:THR:HG22	2.14	0.47
1:E:1613:ASP:N	1:E:1617:HIS:HD2	2.07	0.47
1:E:2042:GLU:O	1:E:2046:GLU:HG2	2.14	0.47
1:E:2342:GLN:OE1	1:E:2342:GLN:N	2.47	0.47
1:A:305:LEU:HD11	1:A:465:HIS:HE1	1.79	0.47
1:A:873:LYS:O	1:A:876:THR:HG22	2.14	0.47
1:A:1310:ILE:HG13	1:A:1311:ASN:N	2.30	0.47
1:B:1186:GLU:O	1:B:1188:ASN:N	2.48	0.47
1:B:1485:PRO:O	1:B:1490:GLU:HG2	2.15	0.47
1:B:1509:ILE:HA	1:B:1510:ASN:HA	1.62	0.47
1:C:305:LEU:HD11	1:C:465:HIS:HE1	1.79	0.47
1:C:450:LEU:HG	1:C:454:LEU:HD23	1.97	0.47
1:C:840:LEU:HD12	1:C:845:GLN:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1253:THR:OG1	1:C:1256:THR:HG22	2.14	0.47
1:D:842:LEU:HD12	1:D:861:ARG:HG2	1.97	0.47
1:D:2402:ALA:HB3	1:E:2294:LEU:HD21	1.97	0.47
1:E:419:LYS:HG3	1:E:424:ALA:HB3	1.96	0.47
1:E:1887:PHE:CE1	1:E:1891:ILE:HD11	2.50	0.47
1:A:679:ASP:O	1:A:683:ASN:ND2	2.48	0.47
1:A:840:LEU:HD12	1:A:845:GLN:HG2	1.97	0.47
1:A:1887:PHE:CE1	1:A:1891:ILE:HD11	2.50	0.47
1:B:29:MET:HE2	1:B:34:ILE:HG12	1.97	0.47
1:B:2346:ALA:HB1	1:B:2437:SER:HB3	1.96	0.47
1:C:686:ILE:HG23	1:C:740:ILE:HD13	1.97	0.47
1:D:354:ASN:OD1	1:D:404:ASP:HA	2.15	0.47
1:E:301:ILE:HA	1:E:319:ILE:HD11	1.97	0.47
1:E:1194:LYS:O	1:E:1215:ILE:HB	2.15	0.47
1:A:212:LEU:HD21	1:A:217:PHE:HD2	1.80	0.47
1:A:2342:GLN:N	1:A:2342:GLN:OE1	2.47	0.47
1:C:630:ASP:N	1:C:630:ASP:OD1	2.46	0.47
1:C:2033:LEU:HD23	1:C:2033:LEU:HA	1.79	0.47
1:C:2216:TYR:OH	1:D:2010:GLU:OE1	2.32	0.47
1:C:2346:ALA:HB1	1:C:2437:SER:HB3	1.96	0.47
1:D:679:ASP:O	1:D:683:ASN:ND2	2.48	0.47
1:D:1150:GLN:HE21	1:D:1152:GLN:HE21	1.63	0.47
1:D:1880:ASP:HB2	1:D:1883:GLN:HB2	1.97	0.47
1:E:273:ILE:H	1:E:273:ILE:HD12	1.80	0.47
1:E:410:LYS:HE3	1:E:411:LYS:H	1.80	0.47
1:A:1150:GLN:HE21	1:A:1152:GLN:HE21	1.63	0.46
1:B:305:LEU:HD11	1:B:465:HIS:HE1	1.79	0.46
1:B:410:LYS:HE3	1:B:411:LYS:H	1.80	0.46
1:C:410:LYS:HE3	1:C:411:LYS:H	1.80	0.46
1:C:730:LEU:HD11	1:C:751:LYS:HG2	1.97	0.46
1:C:1887:PHE:CE1	1:C:1891:ILE:HD11	2.50	0.46
1:D:212:LEU:HD21	1:D:217:PHE:HD2	1.80	0.46
1:D:710:ILE:HD12	1:D:2210:PHE:HD1	1.81	0.46
1:D:1194:LYS:O	1:D:1215:ILE:HB	2.15	0.46
1:D:2093:ILE:HG23	1:D:2132:LEU:HD13	1.98	0.46
1:E:840:LEU:HD12	1:E:845:GLN:HG2	1.97	0.46
1:E:1150:GLN:HE21	1:E:1152:GLN:HE21	1.63	0.46
1:E:1485:PRO:O	1:E:1490:GLU:HG2	2.15	0.46
1:A:662:LEU:HD11	1:A:787:THR:HA	1.96	0.46
1:A:1994:LEU:HD23	1:A:1994:LEU:HA	1.76	0.46
1:B:212:LEU:HD21	1:B:217:PHE:HD2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:36:SER:HB2	1:C:1489:ARG:HH21	1.80	0.46
1:C:43:SER:OG	1:C:44:ARG:N	2.49	0.46
1:C:395:GLU:HB3	1:C:397:TYR:CE2	2.50	0.46
1:C:1469:PHE:CE1	1:C:1471:THR:HG22	2.51	0.46
1:C:2375:LEU:N	1:C:2408:GLY:O	2.37	0.46
1:E:29:MET:HE2	1:E:34:ILE:HG12	1.97	0.46
1:E:1316:LYS:HB2	1:E:1317:LEU:HA	1.98	0.46
1:E:2368:ILE:HG12	1:E:2430:ILE:O	2.14	0.46
1:A:1271:PHE:CE1	1:A:1534:LEU:HD13	2.51	0.46
1:A:2368:ILE:HG12	1:A:2430:ILE:O	2.14	0.46
1:B:989:GLU:O	1:B:989:GLU:HG2	2.16	0.46
1:B:1310:ILE:HG13	1:B:1311:ASN:N	2.30	0.46
1:B:2342:GLN:OE1	1:B:2342:GLN:N	2.47	0.46
1:C:273:ILE:H	1:C:273:ILE:HD12	1.80	0.46
1:C:1150:GLN:HE21	1:C:1152:GLN:HE21	1.64	0.46
1:D:1983:ARG:NH1	1:D:2419:PHE:O	2.48	0.46
1:E:354:ASN:OD1	1:E:404:ASP:HA	2.15	0.46
1:E:1880:ASP:HB2	1:E:1883:GLN:HB2	1.97	0.46
1:E:2093:ILE:HG23	1:E:2132:LEU:HD13	1.98	0.46
1:A:243:LYS:HD2	1:A:243:LYS:HA	1.63	0.46
1:A:450:LEU:HG	1:A:454:LEU:HD23	1.97	0.46
1:A:1145:LEU:HD11	1:A:1165:LEU:HD11	1.97	0.46
1:A:1194:LYS:O	1:A:1215:ILE:HB	2.15	0.46
1:B:2174:GLN:HA	1:C:2049:ILE:HD11	1.97	0.46
1:C:1271:PHE:CE1	1:C:1534:LEU:HD13	2.51	0.46
1:C:2391:TYR:CE1	1:C:2436:ASN:HB2	2.51	0.46
1:D:1271:PHE:CE1	1:D:1534:LEU:HD13	2.51	0.46
1:D:1871:GLU:OE1	1:D:1871:GLU:N	2.41	0.46
1:D:1887:PHE:CE1	1:D:1891:ILE:HD11	2.50	0.46
1:E:1271:PHE:CE1	1:E:1534:LEU:HD13	2.51	0.46
1:A:36:SER:HB2	1:A:1489:ARG:HH21	1.80	0.46
1:A:842:LEU:HD12	1:A:861:ARG:HG2	1.97	0.46
1:A:989:GLU:O	1:A:989:GLU:HG2	2.16	0.46
1:A:1950:VAL:HG13	1:E:906:GLN:HE21	1.78	0.46
1:B:572:LEU:O	1:B:576:THR:OG1	2.32	0.46
1:B:840:LEU:HD12	1:B:845:GLN:HG2	1.97	0.46
1:B:1887:PHE:CE1	1:B:1891:ILE:HD11	2.50	0.46
1:C:1732:MET:O	1:C:1787:ARG:NH2	2.42	0.46
1:C:2409:ILE:O	1:C:2409:ILE:HG13	2.16	0.46
1:D:43:SER:OG	1:D:44:ARG:N	2.48	0.46
1:D:395:GLU:HB3	1:D:397:TYR:CE2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:686:ILE:HG23	1:D:740:ILE:HD13	1.97	0.46
1:D:2223:LEU:HD13	1:E:2273:GLU:HG2	1.97	0.46
1:D:2391:TYR:CE1	1:D:2436:ASN:HB2	2.51	0.46
1:E:305:LEU:HD11	1:E:465:HIS:HE1	1.79	0.46
1:E:842:LEU:HD12	1:E:861:ARG:HG2	1.97	0.46
1:E:1145:LEU:HD11	1:E:1165:LEU:HD11	1.97	0.46
1:B:336:THR:HG23	1:B:434:THR:CG2	2.46	0.46
1:B:1150:GLN:HE21	1:B:1152:GLN:HE21	1.63	0.46
1:C:212:LEU:HD21	1:C:217:PHE:HD2	1.80	0.46
1:C:1714:PHE:CD2	1:C:1717:LEU:HD23	2.50	0.46
1:D:1714:PHE:CD2	1:D:1717:LEU:HD23	2.50	0.46
1:E:336:THR:HG23	1:E:434:THR:CG2	2.46	0.46
1:E:662:LEU:HD11	1:E:787:THR:HA	1.96	0.46
1:E:1310:ILE:HG13	1:E:1311:ASN:N	2.30	0.46
1:A:1315:TYR:HB3	1:A:1317:LEU:HG	1.98	0.46
1:A:1714:PHE:CD2	1:A:1717:LEU:HD23	2.50	0.46
1:A:2093:ILE:HG23	1:A:2132:LEU:HD13	1.98	0.46
1:B:730:LEU:HD11	1:B:751:LYS:HG2	1.97	0.46
1:B:1194:LYS:O	1:B:1215:ILE:HB	2.15	0.46
1:B:2409:ILE:HG13	1:B:2409:ILE:O	2.16	0.46
1:C:1316:LYS:HB2	1:C:1317:LEU:HA	1.98	0.46
1:D:1153:LYS:HA	1:D:1159:ASP:HA	1.98	0.46
1:D:1469:PHE:CE1	1:D:1471:THR:HG22	2.51	0.46
1:A:339:ASP:OD2	1:A:343:ALA:N	2.47	0.46
1:B:301:ILE:HA	1:B:319:ILE:HD11	1.97	0.46
1:B:762:ARG:HD3	1:B:762:ARG:HA	1.73	0.46
1:B:1787:ARG:O	1:B:1791:GLU:HG2	2.16	0.46
1:C:1485:PRO:O	1:C:1490:GLU:HG2	2.15	0.46
1:D:103:LYS:O	1:D:1915:PRO:HD2	2.16	0.46
1:D:410:LYS:HE3	1:D:411:LYS:H	1.80	0.46
1:D:997:ASP:OD1	1:E:1767:ASN:ND2	2.49	0.46
1:D:1145:LEU:HD11	1:D:1165:LEU:HD11	1.97	0.46
1:E:456:LEU:HD12	1:E:456:LEU:HA	1.78	0.46
1:E:679:ASP:O	1:E:683:ASN:ND2	2.48	0.46
1:A:177:GLN:HG3	1:A:931:VAL:HG22	1.98	0.46
1:A:336:THR:HG23	1:A:434:THR:CG2	2.46	0.46
1:A:2391:TYR:CE1	1:A:2436:ASN:HB2	2.51	0.46
1:B:450:LEU:HG	1:B:454:LEU:HD23	1.97	0.46
1:B:1714:PHE:CD2	1:B:1717:LEU:HD23	2.50	0.46
1:C:149:LEU:O	1:C:1875:LEU:N	2.46	0.46
1:C:572:LEU:O	1:C:576:THR:OG1	2.32	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1145:LEU:HD11	1:C:1165:LEU:HD11	1.97	0.46
1:C:1153:LYS:HA	1:C:1159:ASP:HA	1.98	0.46
1:C:1194:LYS:O	1:C:1215:ILE:HB	2.15	0.46
1:C:1838:MET:O	1:C:1843:THR:OG1	2.30	0.46
1:C:2093:ILE:HG23	1:C:2132:LEU:HD13	1.98	0.46
1:D:1141:ARG:HD2	1:E:1576:ILE:HD11	1.98	0.46
1:E:2409:ILE:O	1:E:2409:ILE:HG13	2.16	0.46
1:A:710:ILE:HD12	1:A:2210:PHE:HD1	1.81	0.46
1:B:36:SER:HB2	1:B:1489:ARG:HH21	1.80	0.46
1:B:999:CYS:SG	1:B:1009:VAL:HG21	2.56	0.46
1:B:1469:PHE:CE1	1:B:1471:THR:HG22	2.51	0.46
1:C:1787:ARG:O	1:C:1791:GLU:HG2	2.16	0.46
1:D:29:MET:HE2	1:D:34:ILE:HG12	1.97	0.46
1:D:336:THR:HG23	1:D:434:THR:CG2	2.46	0.46
1:D:1315:TYR:HB3	1:D:1317:LEU:HG	1.98	0.46
1:D:1485:PRO:O	1:D:1490:GLU:HG2	2.15	0.46
1:D:1787:ARG:O	1:D:1791:GLU:HG2	2.16	0.46
1:D:2200:GLN:NE2	1:E:1962:SER:HB2	2.31	0.46
1:E:1798:ASP:HB3	1:E:1801:ASP:OD2	2.17	0.46
1:A:237:ASP:OD1	1:A:494:LYS:NZ	2.49	0.45
1:B:133:LYS:HB3	1:B:133:LYS:HE2	1.72	0.45
1:B:273:ILE:H	1:B:273:ILE:HD12	1.80	0.45
1:B:1145:LEU:HD11	1:B:1165:LEU:HD11	1.97	0.45
1:C:29:MET:HE2	1:C:34:ILE:HG12	1.97	0.45
1:C:999:CYS:SG	1:C:1009:VAL:HG21	2.56	0.45
1:D:273:ILE:HD12	1:D:273:ILE:H	1.80	0.45
1:D:2222:ARG:NH2	1:E:2261:ALA:C	2.74	0.45
1:D:2237:ARG:HH22	1:E:2283:GLU:CG	2.29	0.45
1:E:103:LYS:O	1:E:1915:PRO:HD2	2.16	0.45
1:E:762:ARG:HD3	1:E:762:ARG:HA	1.73	0.45
1:E:1743:TRP:CZ2	1:E:1788:PRO:HB2	2.52	0.45
1:E:1787:ARG:O	1:E:1791:GLU:HG2	2.16	0.45
1:E:1994:LEU:HD23	1:E:1994:LEU:HA	1.76	0.45
1:A:24:ALA:HA	1:A:27:MET:HE3	1.99	0.45
1:A:102:GLU:O	1:A:103:LYS:HD3	2.16	0.45
1:A:410:LYS:HE3	1:A:411:LYS:H	1.80	0.45
1:A:1469:PHE:CE1	1:A:1471:THR:HG22	2.51	0.45
1:A:1880:ASP:HB2	1:A:1883:GLN:HB2	1.97	0.45
1:A:2409:ILE:HG13	1:A:2409:ILE:O	2.16	0.45
1:B:679:ASP:O	1:B:683:ASN:ND2	2.49	0.45
1:B:923:LEU:HD23	1:B:923:LEU:HA	1.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:2093:ILE:HG23	1:B:2132:LEU:HD13	1.98	0.45
1:C:124:TYR:OH	1:C:140:ASP:OD1	2.24	0.45
1:C:237:ASP:OD1	1:C:494:LYS:NZ	2.49	0.45
1:C:679:ASP:O	1:C:683:ASN:ND2	2.49	0.45
1:C:710:ILE:HD12	1:C:2210:PHE:HD1	1.81	0.45
1:C:2447:GLY:HA2	1:C:2451:LYS:HD2	1.98	0.45
1:D:102:GLU:O	1:D:103:LYS:HD3	2.16	0.45
1:D:177:GLN:HG3	1:D:931:VAL:HG22	1.99	0.45
1:D:237:ASP:OD1	1:D:494:LYS:NZ	2.49	0.45
1:D:2030:LEU:HA	1:D:2030:LEU:HD23	1.71	0.45
1:E:999:CYS:SG	1:E:1009:VAL:HG21	2.56	0.45
1:E:1206:ASN:OD1	1:E:1206:ASN:N	2.49	0.45
1:E:1469:PHE:CE1	1:E:1471:THR:HG22	2.51	0.45
1:E:1714:PHE:CD2	1:E:1717:LEU:HD23	2.50	0.45
1:A:29:MET:HE2	1:A:34:ILE:HG12	1.97	0.45
1:A:1485:PRO:O	1:A:1490:GLU:HG2	2.15	0.45
1:A:1607:LEU:HB2	1:A:1652:VAL:HG13	1.99	0.45
1:B:24:ALA:HA	1:B:27:MET:HE3	1.98	0.45
1:B:1206:ASN:OD1	1:B:1206:ASN:N	2.50	0.45
1:B:1880:ASP:HB2	1:B:1883:GLN:HB2	1.97	0.45
1:C:336:THR:HG23	1:C:434:THR:CG2	2.46	0.45
1:C:1880:ASP:HB2	1:C:1883:GLN:HB2	1.97	0.45
1:D:24:ALA:HA	1:D:27:MET:HE3	1.99	0.45
1:D:149:LEU:O	1:D:1875:LEU:N	2.46	0.45
1:D:373:SER:N	1:D:417:THR:O	2.36	0.45
1:D:374:ILE:HG22	1:D:383:LEU:HD13	1.98	0.45
1:D:924:SER:HB2	1:D:942:ILE:HD12	1.98	0.45
1:D:1001:LYS:HG3	1:E:1849:MET:HE2	1.96	0.45
1:D:1743:TRP:CZ2	1:D:1788:PRO:HB2	2.52	0.45
1:D:2161:LYS:HE2	1:D:2161:LYS:HB3	1.75	0.45
1:D:2233:LEU:O	1:E:2284:GLN:OE1	2.34	0.45
1:D:2409:ILE:HG13	1:D:2409:ILE:O	2.16	0.45
1:E:212:LEU:HD21	1:E:217:PHE:HD2	1.80	0.45
1:A:149:LEU:O	1:A:1875:LEU:N	2.46	0.45
1:A:924:SER:HB2	1:A:942:ILE:HD12	1.98	0.45
1:A:1316:LYS:HB2	1:A:1317:LEU:HA	1.98	0.45
1:B:1271:PHE:CE1	1:B:1534:LEU:HD13	2.51	0.45
1:B:1980:PRO:O	1:B:2424:TRP:HZ3	2.00	0.45
1:C:102:GLU:O	1:C:103:LYS:HD3	2.16	0.45
1:C:374:ILE:HG22	1:C:383:LEU:HD13	1.98	0.45
1:C:1206:ASN:OD1	1:C:1206:ASN:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1315:TYR:HB3	1:C:1317:LEU:HG	1.98	0.45
1:D:572:LEU:O	1:D:576:THR:OG1	2.32	0.45
1:D:840:LEU:HD12	1:D:845:GLN:HG2	1.97	0.45
1:D:923:LEU:HA	1:D:923:LEU:HD23	1.79	0.45
1:D:1173:ASP:OD1	1:D:1173:ASP:N	2.49	0.45
1:E:237:ASP:OD1	1:E:494:LYS:NZ	2.49	0.45
1:E:1153:LYS:HA	1:E:1159:ASP:HA	1.98	0.45
1:A:2358:TYR:CZ	1:E:2386:ARG:HB3	2.51	0.45
1:A:2447:GLY:HA2	1:A:2451:LYS:HD2	1.98	0.45
1:B:710:ILE:HD12	1:B:2210:PHE:HD1	1.81	0.45
1:B:1607:LEU:HB2	1:B:1652:VAL:HG13	1.99	0.45
1:B:1798:ASP:HB3	1:B:1801:ASP:OD2	2.17	0.45
1:B:2391:TYR:CE1	1:B:2436:ASN:HB2	2.51	0.45
1:B:2447:GLY:HA2	1:B:2451:LYS:HD2	1.98	0.45
1:C:775:GLU:HG2	1:C:801:ILE:HG21	1.99	0.45
1:C:1310:ILE:HG13	1:C:1311:ASN:N	2.30	0.45
1:D:36:SER:HB2	1:D:1489:ARG:HH21	1.80	0.45
1:D:730:LEU:HD21	1:D:751:LYS:HD3	1.98	0.45
1:E:450:LEU:HG	1:E:454:LEU:HD23	1.97	0.45
1:E:1315:TYR:HB3	1:E:1317:LEU:HG	1.98	0.45
1:E:2391:TYR:CE1	1:E:2436:ASN:HB2	2.51	0.45
1:A:308:PRO:HD2	1:A:473:HIS:O	2.16	0.45
1:A:549:ASP:OD2	1:A:549:ASP:N	2.50	0.45
1:A:1749:THR:HB	1:A:1750:PRO:HD3	1.99	0.45
1:C:243:LYS:HD2	1:C:243:LYS:HA	1.63	0.45
1:D:989:GLU:O	1:D:989:GLU:HG2	2.16	0.45
1:D:999:CYS:SG	1:D:1009:VAL:HG21	2.56	0.45
1:D:1798:ASP:HB3	1:D:1801:ASP:OD2	2.17	0.45
1:E:102:GLU:O	1:E:103:LYS:HD3	2.16	0.45
1:A:43:SER:OG	1:A:44:ARG:N	2.49	0.45
1:A:999:CYS:SG	1:A:1009:VAL:HG21	2.56	0.45
1:A:1743:TRP:CZ2	1:A:1788:PRO:HB2	2.52	0.45
1:B:494:LYS:HB2	1:B:494:LYS:HE3	1.69	0.45
1:B:1749:THR:HB	1:B:1750:PRO:HD3	1.99	0.45
1:C:1258:ARG:HA	1:C:1547:SER:HA	1.99	0.45
1:C:1980:PRO:O	1:C:2424:TRP:HZ3	2.00	0.45
1:D:1206:ASN:N	1:D:1206:ASN:OD1	2.49	0.45
1:E:308:PRO:HD2	1:E:473:HIS:O	2.16	0.45
1:E:710:ILE:HD12	1:E:2210:PHE:HD1	1.81	0.45
1:A:1206:ASN:N	1:A:1206:ASN:OD1	2.49	0.45
1:A:1613:ASP:N	1:A:1617:HIS:HD2	2.07	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1798:ASP:HB3	1:A:1801:ASP:OD2	2.17	0.45
1:B:308:PRO:HD2	1:B:473:HIS:O	2.16	0.45
1:B:924:SER:HB2	1:B:942:ILE:HD12	1.98	0.45
1:B:2105:MET:O	1:B:2117:SER:OG	2.27	0.45
1:C:1509:ILE:HA	1:C:1510:ASN:HA	1.62	0.45
1:D:1316:LYS:HB2	1:D:1317:LEU:HA	1.98	0.45
1:D:1823:LYS:HA	1:D:1823:LYS:HD2	1.76	0.45
1:D:1941:ILE:HG23	1:D:1942:ASP:OD1	2.17	0.45
1:E:243:LYS:HA	1:E:243:LYS:HD2	1.63	0.45
1:E:1258:ARG:HA	1:E:1547:SER:HA	1.99	0.45
1:B:103:LYS:O	1:B:1915:PRO:HD2	2.16	0.45
1:B:237:ASP:OD1	1:B:494:LYS:NZ	2.49	0.45
1:B:1316:LYS:HB2	1:B:1317:LEU:HA	1.98	0.45
1:D:195:ARG:HD3	1:D:930:LEU:HD21	1.99	0.45
1:D:308:PRO:HD2	1:D:473:HIS:O	2.16	0.45
1:D:1607:LEU:HD11	1:D:1679:LEU:HD23	1.99	0.45
1:E:994:LYS:HE2	1:E:994:LYS:HB2	1.87	0.45
1:E:1150:GLN:NE2	1:E:1152:GLN:HE21	2.15	0.45
1:E:1607:LEU:HB2	1:E:1652:VAL:HG13	1.99	0.45
1:A:146:LEU:HD23	1:A:146:LEU:HA	1.83	0.45
1:A:359:ASN:OD1	1:A:398:SER:OG	2.19	0.45
1:A:1610:LYS:HA	1:A:1649:ASN:ND2	2.32	0.45
1:A:1980:PRO:O	1:A:2424:TRP:HZ3	2.00	0.45
1:B:43:SER:OG	1:B:44:ARG:N	2.49	0.45
1:B:1054:ARG:HD2	1:B:1054:ARG:HA	1.69	0.45
1:C:1743:TRP:CZ2	1:C:1788:PRO:HB2	2.52	0.45
1:D:322:ILE:CG1	1:E:1867:SER:HB2	2.47	0.45
1:E:1749:THR:HB	1:E:1750:PRO:HD3	1.99	0.45
1:A:730:LEU:HD21	1:A:751:LYS:HD3	1.99	0.44
1:B:549:ASP:OD2	1:B:549:ASP:N	2.50	0.44
1:B:1153:LYS:HA	1:B:1159:ASP:HA	1.98	0.44
1:B:1236:LYS:HE3	1:B:1236:LYS:HB2	1.70	0.44
1:B:1743:TRP:CZ2	1:B:1788:PRO:HB2	2.52	0.44
1:B:2204:GLU:OE1	1:C:1962:SER:OG	2.25	0.44
1:C:24:ALA:HA	1:C:27:MET:HE3	1.98	0.44
1:C:989:GLU:HG2	1:C:989:GLU:O	2.16	0.44
1:C:1610:LYS:HA	1:C:1649:ASN:ND2	2.32	0.44
1:C:1885:LYS:O	1:C:1889:ASP:HB2	2.18	0.44
1:D:775:GLU:HG2	1:D:801:ILE:HG21	1.99	0.44
1:D:1980:PRO:O	1:D:2424:TRP:HZ3	2.00	0.44
1:E:924:SER:HB2	1:E:942:ILE:HD12	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:177:GLN:HG3	1:B:931:VAL:HG22	1.99	0.44
1:B:1315:TYR:HB3	1:B:1317:LEU:HG	1.98	0.44
1:B:2318:ALA:HA	1:B:2455:LEU:HD22	2.00	0.44
1:C:730:LEU:HD21	1:C:751:LYS:HD3	1.99	0.44
1:C:1607:LEU:HB2	1:C:1652:VAL:HG13	1.99	0.44
1:C:1865:ILE:HD13	1:C:1865:ILE:HA	1.84	0.44
1:C:2078:ARG:NH1	1:D:1040:SER:OG	2.47	0.44
1:D:450:LEU:HG	1:D:454:LEU:HD23	1.97	0.44
1:D:710:ILE:O	1:D:713:SER:OG	2.30	0.44
1:D:1258:ARG:HA	1:D:1547:SER:HA	1.99	0.44
1:D:2033:LEU:HA	1:D:2033:LEU:HD23	1.79	0.44
1:D:2305:VAL:O	1:D:2308:THR:OG1	2.30	0.44
1:E:404:ASP:OD1	1:E:404:ASP:N	2.50	0.44
1:E:989:GLU:O	1:E:989:GLU:HG2	2.16	0.44
1:E:1610:LYS:HA	1:E:1649:ASN:ND2	2.32	0.44
1:E:2396:LEU:HD11	1:E:2430:ILE:HG12	1.99	0.44
1:A:215:ARG:NH2	1:A:902:GLY:O	2.47	0.44
1:A:1680:ASN:HD21	1:A:1690:GLN:HG3	1.82	0.44
1:A:1941:ILE:HG23	1:A:1942:ASP:OD1	2.17	0.44
1:B:102:GLU:O	1:B:103:LYS:HD3	2.16	0.44
1:B:339:ASP:OD2	1:B:342:GLN:HA	2.18	0.44
1:B:1150:GLN:NE2	1:B:1152:GLN:HE21	2.15	0.44
1:B:1258:ARG:HA	1:B:1547:SER:HA	1.99	0.44
1:C:339:ASP:OD2	1:C:342:GLN:HA	2.17	0.44
1:C:924:SER:HB2	1:C:942:ILE:HD12	1.98	0.44
1:D:339:ASP:OD2	1:D:342:GLN:HA	2.18	0.44
1:D:1610:LYS:HA	1:D:1649:ASN:ND2	2.32	0.44
1:D:2011:ARG:HH21	1:E:2010:GLU:HB2	1.83	0.44
1:D:2067:LEU:HA	1:D:2067:LEU:HD23	1.74	0.44
1:D:2075:GLU:OE2	1:E:1756:ARG:NH1	2.46	0.44
1:E:124:TYR:OH	1:E:140:ASP:OD1	2.24	0.44
1:E:374:ILE:HG22	1:E:383:LEU:HD13	1.98	0.44
1:E:1823:LYS:HD2	1:E:1823:LYS:HA	1.76	0.44
1:A:103:LYS:O	1:A:1915:PRO:HD2	2.16	0.44
1:A:2020:LEU:O	1:A:2024:GLN:HG3	2.18	0.44
1:B:1885:LYS:O	1:B:1889:ASP:HB2	2.17	0.44
1:C:177:GLN:HG3	1:C:931:VAL:HG22	1.99	0.44
1:C:404:ASP:OD1	1:C:404:ASP:N	2.50	0.44
1:C:1749:THR:HB	1:C:1750:PRO:HD3	1.99	0.44
1:C:2249:THR:O	1:C:2251:ASP:N	2.48	0.44
1:D:2001:PHE:CE1	1:E:1999:MET:HE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:730:LEU:HD21	1:E:751:LYS:HD3	1.99	0.44
1:E:1509:ILE:HA	1:E:1510:ASN:HA	1.62	0.44
1:E:1680:ASN:HD21	1:E:1690:GLN:HG3	1.82	0.44
1:E:1941:ILE:HG23	1:E:1942:ASP:OD1	2.17	0.44
1:A:1153:LYS:HA	1:A:1159:ASP:HA	1.98	0.44
1:A:1787:ARG:O	1:A:1791:GLU:HG2	2.16	0.44
1:B:775:GLU:HG2	1:B:801:ILE:HG21	1.99	0.44
1:B:1317:LEU:HD23	1:B:1317:LEU:HA	1.87	0.44
1:C:103:LYS:O	1:C:1915:PRO:HD2	2.16	0.44
1:C:284:ASN:O	1:C:928:ARG:NH2	2.51	0.44
1:C:308:PRO:HD2	1:C:473:HIS:O	2.16	0.44
1:D:404:ASP:OD1	1:D:404:ASP:N	2.50	0.44
1:D:1885:LYS:O	1:D:1889:ASP:HB2	2.17	0.44
1:D:2396:LEU:HD11	1:D:2430:ILE:HG12	1.99	0.44
1:E:1081:GLY:O	1:E:1103:HIS:HB2	2.18	0.44
1:E:1249:HIS:HB3	1:E:1543:GLN:NE2	2.33	0.44
1:E:2447:GLY:HA2	1:E:2451:LYS:HD2	1.98	0.44
1:A:165:LEU:HA	1:A:165:LEU:HD12	1.72	0.44
1:A:339:ASP:OD2	1:A:342:GLN:HA	2.18	0.44
1:A:374:ILE:HG22	1:A:383:LEU:HD13	1.98	0.44
1:A:404:ASP:OD1	1:A:404:ASP:N	2.50	0.44
1:B:195:ARG:HD3	1:B:930:LEU:HD21	1.99	0.44
1:B:1610:LYS:HA	1:B:1649:ASN:ND2	2.32	0.44
1:B:1680:ASN:HD21	1:B:1690:GLN:HG3	1.82	0.44
1:C:549:ASP:N	1:C:549:ASP:OD2	2.50	0.44
1:C:1150:GLN:NE2	1:C:1152:GLN:HE21	2.15	0.44
1:C:1301:ALA:C	1:C:1302:LEU:HD22	2.42	0.44
1:C:1317:LEU:HD23	1:C:1317:LEU:HA	1.87	0.44
1:C:1798:ASP:HB3	1:C:1801:ASP:OD2	2.16	0.44
1:D:494:LYS:HB2	1:D:494:LYS:HE3	1.69	0.44
1:D:2447:GLY:HA2	1:D:2451:LYS:HD2	1.98	0.44
1:E:174:LEU:HD23	1:E:174:LEU:HA	1.86	0.44
1:E:284:ASN:O	1:E:928:ARG:NH2	2.51	0.44
1:E:1980:PRO:O	1:E:2424:TRP:HZ3	2.00	0.44
1:A:775:GLU:HG2	1:A:801:ILE:HG21	1.99	0.44
1:A:1249:HIS:HB3	1:A:1543:GLN:NE2	2.33	0.44
1:B:730:LEU:HD21	1:B:751:LYS:HD3	1.99	0.44
1:C:195:ARG:HD3	1:C:930:LEU:HD21	1.99	0.44
1:C:1081:GLY:O	1:C:1103:HIS:HB2	2.18	0.44
1:D:1301:ALA:C	1:D:1302:LEU:HD22	2.42	0.44
1:D:2402:ALA:CB	1:E:2294:LEU:HD21	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:177:GLN:HG3	1:E:931:VAL:HG22	1.99	0.44
1:A:1607:LEU:HD11	1:A:1679:LEU:HD23	1.99	0.44
1:A:2243:LYS:HA	1:A:2243:LYS:HD2	1.80	0.44
1:A:2318:ALA:HA	1:A:2455:LEU:HD22	2.00	0.44
1:B:374:ILE:HG22	1:B:383:LEU:HD13	1.98	0.44
1:B:1646:VAL:HG11	1:B:1900:LEU:HD21	2.00	0.44
1:C:1941:ILE:HG23	1:C:1942:ASP:OD1	2.17	0.44
1:C:2020:LEU:O	1:C:2024:GLN:HG3	2.18	0.44
1:D:1593:TYR:CE1	1:D:1787:ARG:HD2	2.53	0.44
1:E:24:ALA:HA	1:E:27:MET:HE3	1.99	0.44
1:E:775:GLU:HG2	1:E:801:ILE:HG21	1.99	0.44
1:A:195:ARG:HD3	1:A:930:LEU:HD21	1.99	0.44
1:A:1823:LYS:HA	1:A:1823:LYS:HD2	1.76	0.44
1:A:2205:PHE:CE2	1:B:2017:MET:HB2	2.53	0.44
1:B:1301:ALA:C	1:B:1302:LEU:HD22	2.42	0.44
1:B:1865:ILE:HD13	1:B:1865:ILE:HA	1.84	0.44
1:D:2020:LEU:O	1:D:2024:GLN:HG3	2.18	0.44
1:E:195:ARG:HD3	1:E:930:LEU:HD21	1.99	0.44
1:E:339:ASP:OD2	1:E:342:GLN:HA	2.18	0.44
1:E:549:ASP:OD2	1:E:549:ASP:N	2.50	0.44
1:A:690:ASN:OD1	1:A:690:ASN:N	2.51	0.43
1:A:2249:THR:O	1:A:2251:ASP:N	2.48	0.43
1:B:657:GLN:O	1:B:661:LEU:HG	2.18	0.43
1:B:807:GLN:O	1:B:811:VAL:HG23	2.18	0.43
1:B:1081:GLY:O	1:B:1103:HIS:HB2	2.18	0.43
1:B:1239:ASN:OD1	1:B:1239:ASN:N	2.51	0.43
1:B:1249:HIS:HB3	1:B:1543:GLN:NE2	2.33	0.43
1:B:1871:GLU:OE1	1:B:1871:GLU:N	2.41	0.43
1:C:339:ASP:OD2	1:C:343:ALA:N	2.47	0.43
1:C:807:GLN:O	1:C:811:VAL:HG23	2.18	0.43
1:D:142:ARG:HD3	1:D:945:ASN:O	2.18	0.43
1:D:284:ASN:O	1:D:928:ARG:NH2	2.51	0.43
1:D:1081:GLY:O	1:D:1103:HIS:HB2	2.18	0.43
1:D:1249:HIS:HB3	1:D:1543:GLN:NE2	2.33	0.43
1:D:1607:LEU:HB2	1:D:1652:VAL:HG13	1.99	0.43
1:D:1749:THR:HB	1:D:1750:PRO:HD3	1.99	0.43
1:E:573:LEU:HD12	1:E:573:LEU:HA	1.78	0.43
1:E:876:THR:O	1:E:880:THR:HG22	2.18	0.43
1:E:1885:LYS:O	1:E:1889:ASP:HB2	2.17	0.43
1:A:130:LEU:HD13	1:A:975:THR:HG21	2.00	0.43
1:A:133:LYS:HB3	1:A:133:LYS:HE2	1.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1081:GLY:O	1:A:1103:HIS:HB2	2.18	0.43
1:A:1301:ALA:C	1:A:1302:LEU:HD22	2.42	0.43
1:A:2030:LEU:HA	1:A:2030:LEU:HD23	1.71	0.43
1:A:2040:LEU:HD11	1:A:2186:GLU:HG2	2.00	0.43
1:A:2082:LEU:HD21	1:B:1037:GLU:OE2	2.18	0.43
1:A:2396:LEU:HD11	1:A:2430:ILE:HG12	1.99	0.43
1:B:1593:TYR:CE1	1:B:1787:ARG:HD2	2.53	0.43
1:B:1613:ASP:N	1:B:1617:HIS:HD2	2.07	0.43
1:D:1150:GLN:NE2	1:D:1152:GLN:HE21	2.15	0.43
1:D:1646:VAL:HG11	1:D:1900:LEU:HD21	2.00	0.43
1:D:1680:ASN:HD21	1:D:1690:GLN:HG3	1.82	0.43
1:D:2382:TYR:CD1	1:E:2461:ILE:HG21	2.52	0.43
1:E:1236:LYS:HB2	1:E:1236:LYS:HE3	1.70	0.43
1:E:1301:ALA:C	1:E:1302:LEU:HD22	2.42	0.43
1:E:2161:LYS:HE2	1:E:2161:LYS:HB3	1.75	0.43
1:A:876:THR:O	1:A:880:THR:HG22	2.18	0.43
1:A:918:ARG:HH12	1:A:922:ALA:HB2	1.84	0.43
1:A:1646:VAL:HG11	1:A:1900:LEU:HD21	2.00	0.43
1:B:284:ASN:O	1:B:928:ARG:NH2	2.51	0.43
1:B:456:LEU:HD12	1:B:456:LEU:HA	1.78	0.43
1:B:1941:ILE:HG23	1:B:1942:ASP:OD1	2.17	0.43
1:C:494:LYS:HB2	1:C:494:LYS:HE3	1.69	0.43
1:C:657:GLN:O	1:C:661:LEU:HG	2.18	0.43
1:C:1646:VAL:HG11	1:C:1900:LEU:HD21	2.00	0.43
1:C:1680:ASN:HD21	1:C:1690:GLN:HG3	1.82	0.43
1:D:243:LYS:HD2	1:D:243:LYS:HA	1.63	0.43
1:D:288:LEU:HA	1:D:288:LEU:HD23	1.80	0.43
1:D:657:GLN:O	1:D:661:LEU:HG	2.18	0.43
1:D:1489:ARG:O	1:D:1489:ARG:NH1	2.34	0.43
1:A:365:THR:HA	1:A:418:ARG:HH12	1.83	0.43
1:A:1030:GLY:O	1:A:1034:THR:HG23	2.19	0.43
1:A:1120:LYS:HE2	1:A:1120:LYS:HB2	1.78	0.43
1:A:1885:LYS:O	1:A:1889:ASP:HB2	2.18	0.43
1:A:1983:ARG:NH1	1:A:2419:PHE:O	2.48	0.43
1:B:906:GLN:NE2	1:C:1950:VAL:HG13	2.34	0.43
1:B:918:ARG:HH12	1:B:922:ALA:HB2	1.84	0.43
1:B:1607:LEU:HD11	1:B:1679:LEU:HD23	1.99	0.43
1:B:2036:GLN:HG2	1:B:2189:ARG:HA	2.00	0.43
1:B:2396:LEU:HD11	1:B:2430:ILE:HG12	1.99	0.43
1:C:2318:ALA:HA	1:C:2455:LEU:HD22	2.00	0.43
1:C:2396:LEU:HD11	1:C:2430:ILE:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1509:ILE:HA	1:D:1510:ASN:HA	1.62	0.43
1:E:43:SER:OG	1:E:44:ARG:N	2.49	0.43
1:E:367:LYS:HD2	1:E:420:LYS:HZ2	1.83	0.43
1:E:690:ASN:OD1	1:E:690:ASN:N	2.52	0.43
1:E:918:ARG:HH12	1:E:922:ALA:HB2	1.84	0.43
1:E:1120:LYS:HE2	1:E:1120:LYS:HB2	1.78	0.43
1:E:1646:VAL:HG11	1:E:1900:LEU:HD21	2.00	0.43
1:A:298:ALA:HA	1:A:301:ILE:HG22	2.01	0.43
1:A:657:GLN:O	1:A:661:LEU:HG	2.18	0.43
1:A:2137:THR:HG23	1:B:2082:LEU:HD22	1.99	0.43
1:B:243:LYS:HA	1:B:243:LYS:HD2	1.63	0.43
1:C:298:ALA:HA	1:C:301:ILE:HG22	2.01	0.43
1:C:307:THR:HA	1:C:308:PRO:HA	1.83	0.43
1:C:1593:TYR:CE1	1:C:1787:ARG:HD2	2.53	0.43
1:C:1607:LEU:HD11	1:C:1679:LEU:HD23	1.99	0.43
1:D:298:ALA:HA	1:D:301:ILE:HG22	2.01	0.43
1:D:712:GLU:HA	1:D:715:GLU:OE2	2.19	0.43
1:D:2036:GLN:HG2	1:D:2189:ARG:HA	2.00	0.43
1:D:2318:ALA:HA	1:D:2455:LEU:HD22	1.99	0.43
1:E:365:THR:HA	1:E:418:ARG:HH12	1.83	0.43
1:E:710:ILE:O	1:E:713:SER:OG	2.30	0.43
1:E:1030:GLY:O	1:E:1034:THR:HG23	2.19	0.43
1:E:1593:TYR:CE1	1:E:1787:ARG:HD2	2.53	0.43
1:A:1150:GLN:NE2	1:A:1152:GLN:HE21	2.15	0.43
1:A:1749:THR:O	1:A:1753:VAL:HG23	2.19	0.43
1:A:2027:GLU:HG3	1:E:2198:GLN:NE2	2.33	0.43
1:B:876:THR:O	1:B:880:THR:HG22	2.18	0.43
1:B:1749:THR:O	1:B:1753:VAL:HG23	2.19	0.43
1:B:1887:PHE:CZ	1:B:1891:ILE:HD11	2.54	0.43
1:C:142:ARG:HD3	1:C:945:ASN:O	2.18	0.43
1:C:876:THR:O	1:C:880:THR:HG22	2.18	0.43
1:C:918:ARG:HH12	1:C:922:ALA:HB2	1.84	0.43
1:C:2040:LEU:HD11	1:C:2186:GLU:HG2	2.00	0.43
1:C:2412:ASP:OD2	1:C:2414:LEU:HD13	2.19	0.43
1:D:876:THR:O	1:D:880:THR:HG22	2.18	0.43
1:D:918:ARG:HH12	1:D:922:ALA:HB2	1.84	0.43
1:D:1184:ILE:HD13	1:D:1184:ILE:HA	1.75	0.43
1:E:298:ALA:HA	1:E:301:ILE:HG22	2.01	0.43
1:E:1749:THR:O	1:E:1753:VAL:HG23	2.19	0.43
1:E:2036:GLN:HG2	1:E:2189:ARG:HA	2.00	0.43
1:A:194:ARG:HG2	1:A:247:ILE:HD11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:217:PHE:HZ	1:A:222:ASN:ND2	2.17	0.43
1:A:2036:GLN:HG2	1:A:2189:ARG:HA	2.00	0.43
1:A:2156:GLU:OE1	1:A:2156:GLU:HA	2.19	0.43
1:A:2305:VAL:O	1:A:2308:THR:OG1	2.30	0.43
1:A:2355:LYS:HE2	1:A:2355:LYS:HB2	1.81	0.43
1:B:448:LEU:HD23	1:B:448:LEU:HA	1.84	0.43
1:B:690:ASN:OD1	1:B:690:ASN:N	2.52	0.43
1:C:335:LYS:NZ	1:C:346:ILE:O	2.51	0.43
1:D:2140:THR:HG23	1:E:2082:LEU:HD13	2.01	0.43
1:D:2156:GLU:OE1	1:D:2156:GLU:HA	2.19	0.43
1:E:680:LEU:HD23	1:E:680:LEU:HA	1.88	0.43
1:E:2020:LEU:O	1:E:2024:GLN:HG3	2.18	0.43
1:E:2318:ALA:HA	1:E:2455:LEU:HD22	2.00	0.43
1:E:2388:ILE:HD13	1:E:2388:ILE:HA	1.89	0.43
1:A:874:ASP:OD2	1:A:898:LEU:HD11	2.19	0.43
1:A:1258:ARG:HA	1:A:1547:SER:HA	1.99	0.43
1:B:142:ARG:HD3	1:B:945:ASN:O	2.18	0.43
1:B:287:GLU:CD	1:B:928:ARG:HH22	2.27	0.43
1:B:874:ASP:OD2	1:B:898:LEU:HD11	2.19	0.43
1:C:287:GLU:CD	1:C:928:ARG:HH22	2.27	0.43
1:C:1249:HIS:HB3	1:C:1543:GLN:NE2	2.33	0.43
1:C:2036:GLN:HG2	1:C:2189:ARG:HA	2.00	0.43
1:D:1054:ARG:HD2	1:D:1054:ARG:HA	1.69	0.43
1:D:2040:LEU:HD11	1:D:2186:GLU:HG2	2.00	0.43
1:E:657:GLN:O	1:E:661:LEU:HG	2.18	0.43
1:E:712:GLU:HA	1:E:715:GLU:OE2	2.19	0.43
1:E:874:ASP:OD2	1:E:898:LEU:HD11	2.19	0.43
1:A:142:ARG:HD3	1:A:945:ASN:O	2.18	0.43
1:A:287:GLU:CD	1:A:928:ARG:HH22	2.27	0.43
1:A:312:ASN:OD1	1:A:312:ASN:N	2.50	0.43
1:A:712:GLU:HA	1:A:715:GLU:OE2	2.19	0.43
1:A:2388:ILE:HD13	1:A:2388:ILE:HA	1.89	0.43
1:B:130:LEU:HD13	1:B:975:THR:HG21	2.00	0.43
1:B:712:GLU:HA	1:B:715:GLU:OE2	2.18	0.43
1:B:836:ILE:O	1:B:840:LEU:HD23	2.19	0.43
1:B:1078:ILE:HG12	1:B:1544:LYS:HD3	2.01	0.43
1:B:2020:LEU:O	1:B:2024:GLN:HG3	2.18	0.43
1:B:2412:ASP:OD2	1:B:2414:LEU:HD13	2.19	0.43
1:C:762:ARG:HA	1:C:762:ARG:HD3	1.73	0.43
1:C:1821:LEU:HD23	1:C:1821:LEU:HA	1.88	0.43
1:C:1823:LYS:HD2	1:C:1823:LYS:HA	1.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2222:ARG:HB3	1:D:2270:MET:HE1	2.01	0.43
1:C:2321:LEU:HG	1:C:2451:LYS:HZ1	1.83	0.43
1:D:165:LEU:HD12	1:D:165:LEU:HA	1.72	0.43
1:D:807:GLN:O	1:D:811:VAL:HG23	2.18	0.43
1:E:217:PHE:HZ	1:E:222:ASN:ND2	2.17	0.43
1:E:1887:PHE:CZ	1:E:1891:ILE:HD11	2.54	0.43
1:A:284:ASN:O	1:A:928:ARG:NH2	2.51	0.43
1:B:973:ASN:HD21	1:C:1849:MET:CE	2.30	0.43
1:C:1594:LEU:HD23	1:C:1594:LEU:HA	1.84	0.43
1:E:836:ILE:O	1:E:840:LEU:HD23	2.19	0.43
1:E:1607:LEU:HD11	1:E:1679:LEU:HD23	1.99	0.43
1:E:1624:THR:HG22	1:E:1641:SER:OG	2.19	0.43
1:E:2305:VAL:O	1:E:2308:THR:OG1	2.31	0.43
1:A:304:ARG:HH12	1:A:310:VAL:CG1	2.32	0.42
1:A:624:MET:HE3	1:A:624:MET:HB2	1.97	0.42
1:A:807:GLN:O	1:A:811:VAL:HG23	2.18	0.42
1:A:1625:ILE:HD11	1:A:1654:LEU:HD11	2.01	0.42
1:A:2098:MET:HE2	1:A:2098:MET:HB2	1.81	0.42
1:A:2296:VAL:HG11	1:A:2358:TYR:CE2	2.54	0.42
1:B:194:ARG:HG2	1:B:247:ILE:HD11	2.00	0.42
1:B:1170:VAL:HG13	1:B:1176:TRP:CZ2	2.54	0.42
1:B:1311:ASN:HA	1:B:1315:TYR:OH	2.19	0.42
1:B:1625:ILE:HD11	1:B:1654:LEU:HD11	2.01	0.42
1:B:1902:ASP:OD1	1:B:1902:ASP:C	2.62	0.42
1:C:684:GLY:H	1:E:2258:LYS:HD3	1.83	0.42
1:C:712:GLU:HA	1:C:715:GLU:OE2	2.18	0.42
1:C:840:LEU:HD22	1:C:858:LEU:HD11	2.01	0.42
1:C:1078:ILE:HG12	1:C:1544:LYS:HD3	2.01	0.42
1:D:365:THR:HA	1:D:418:ARG:HH12	1.83	0.42
1:E:194:ARG:HG2	1:E:247:ILE:HD11	2.01	0.42
1:E:304:ARG:HH12	1:E:310:VAL:CG1	2.32	0.42
1:E:1610:LYS:O	1:E:1644:LEU:HD21	2.19	0.42
1:E:1710:ASN:OD1	1:E:1711:ASN:N	2.52	0.42
1:E:2040:LEU:HD11	1:E:2186:GLU:HG2	2.00	0.42
1:A:840:LEU:HD22	1:A:858:LEU:HD11	2.01	0.42
1:A:1752:MET:HE2	1:A:1752:MET:HB3	1.94	0.42
1:A:1887:PHE:CZ	1:A:1891:ILE:HD11	2.54	0.42
1:A:1961:LEU:CD2	1:E:805:GLY:HA3	2.49	0.42
1:A:2034:ARG:O	1:E:2187:MET:HE1	2.19	0.42
1:A:2204:GLU:OE1	1:B:1962:SER:OG	2.33	0.42
1:B:165:LEU:HD12	1:B:165:LEU:HA	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:268:PHE:HZ	1:B:451:ASN:HB2	1.85	0.42
1:B:298:ALA:HA	1:B:301:ILE:HG22	2.01	0.42
1:B:335:LYS:NZ	1:B:346:ILE:O	2.51	0.42
1:B:632:LYS:O	1:B:635:GLN:HG3	2.19	0.42
1:B:1030:GLY:O	1:B:1034:THR:HG23	2.19	0.42
1:B:2040:LEU:HD11	1:B:2186:GLU:HG2	2.00	0.42
1:B:2249:THR:O	1:B:2251:ASP:N	2.48	0.42
1:B:2296:VAL:HG11	1:B:2358:TYR:CE2	2.54	0.42
1:C:57:GLU:OE2	1:C:1892:SER:OG	2.29	0.42
1:C:294:GLN:HE22	1:D:1865:ILE:HA	1.84	0.42
1:C:1041:GLN:H	1:C:1041:GLN:HG2	1.63	0.42
1:C:2098:MET:HE2	1:C:2098:MET:HB2	1.81	0.42
1:D:762:ARG:HD3	1:D:762:ARG:HA	1.73	0.42
1:D:1311:ASN:HA	1:D:1315:TYR:OH	2.20	0.42
1:D:1625:ILE:HD11	1:D:1654:LEU:HD11	2.01	0.42
1:D:1710:ASN:OD1	1:D:1711:ASN:N	2.52	0.42
1:D:2296:VAL:HG11	1:D:2358:TYR:CE2	2.54	0.42
1:D:2408:GLY:N	1:D:2411:ASP:OD1	2.50	0.42
1:E:130:LEU:HD13	1:E:975:THR:HG21	2.00	0.42
1:E:142:ARG:HD3	1:E:945:ASN:O	2.18	0.42
1:E:287:GLU:CD	1:E:928:ARG:HH22	2.27	0.42
1:E:339:ASP:OD2	1:E:343:ALA:N	2.47	0.42
1:A:829:LEU:HD23	1:A:829:LEU:HA	1.87	0.42
1:A:1534:LEU:HG	1:A:1536:ILE:HG13	2.02	0.42
1:A:2412:ASP:OD2	1:A:2414:LEU:HD13	2.19	0.42
1:B:2082:LEU:HD23	1:B:2082:LEU:HA	1.65	0.42
1:B:2102:ALA:HB2	1:D:1093:PRO:HG3	2.01	0.42
1:B:2388:ILE:HG13	1:C:2362:LEU:HD11	2.00	0.42
1:C:690:ASN:OD1	1:C:690:ASN:N	2.51	0.42
1:C:836:ILE:O	1:C:840:LEU:HD23	2.19	0.42
1:C:874:ASP:OD2	1:C:898:LEU:HD11	2.19	0.42
1:D:359:ASN:OD1	1:D:398:SER:OG	2.19	0.42
1:D:1317:LEU:HD23	1:D:1317:LEU:HA	1.87	0.42
1:E:840:LEU:HD22	1:E:858:LEU:HD11	2.01	0.42
1:E:2296:VAL:HG11	1:E:2358:TYR:CE2	2.54	0.42
1:A:836:ILE:O	1:A:840:LEU:HD23	2.19	0.42
1:A:923:LEU:HD23	1:A:923:LEU:HA	1.79	0.42
1:A:1593:TYR:CE1	1:A:1787:ARG:HD2	2.53	0.42
1:A:1624:THR:HG22	1:A:1641:SER:OG	2.20	0.42
1:A:1710:ASN:OD1	1:A:1711:ASN:N	2.52	0.42
1:A:2374:THR:O	1:A:2375:LEU:HD23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:PHE:HZ	1:B:222:ASN:ND2	2.17	0.42
1:B:304:ARG:HH12	1:B:310:VAL:CG1	2.32	0.42
1:B:404:ASP:OD1	1:B:404:ASP:N	2.50	0.42
1:B:484:ARG:HE	1:B:484:ARG:HB2	1.64	0.42
1:B:941:ASP:OD1	1:B:944:ARG:NH1	2.53	0.42
1:B:1625:ILE:HG12	1:B:1640:TYR:HB3	2.01	0.42
1:C:130:LEU:HD13	1:C:975:THR:HG21	2.00	0.42
1:C:268:PHE:HZ	1:C:451:ASN:HB2	1.84	0.42
1:C:685:GLY:H	1:D:2229:ARG:NH2	2.16	0.42
1:C:1625:ILE:HD11	1:C:1654:LEU:HD11	2.01	0.42
1:C:1749:THR:O	1:C:1753:VAL:HG23	2.19	0.42
1:C:1887:PHE:CZ	1:C:1891:ILE:HD11	2.54	0.42
1:C:2229:ARG:HD2	1:D:2277:LEU:HD21	2.00	0.42
1:D:217:PHE:HZ	1:D:222:ASN:ND2	2.17	0.42
1:D:367:LYS:HZ3	1:D:428:ASN:HB2	1.85	0.42
1:D:836:ILE:O	1:D:840:LEU:HD23	2.19	0.42
1:D:1516:ILE:HG22	1:D:1517:LYS:NZ	2.35	0.42
1:D:1749:THR:O	1:D:1753:VAL:HG23	2.19	0.42
1:D:2412:ASP:OD2	1:D:2414:LEU:HD13	2.19	0.42
1:E:1263:LEU:HD23	1:E:1263:LEU:HA	1.81	0.42
1:E:1534:LEU:HG	1:E:1536:ILE:HG13	2.02	0.42
1:E:1777:ALA:HB3	1:E:1781:ALA:O	2.20	0.42
1:A:268:PHE:HZ	1:A:451:ASN:HB2	1.85	0.42
1:A:288:LEU:HD23	1:A:288:LEU:HA	1.80	0.42
1:A:1170:VAL:HG13	1:A:1176:TRP:CZ2	2.54	0.42
1:A:1902:ASP:OD1	1:A:1902:ASP:C	2.62	0.42
1:A:1961:LEU:HD21	1:E:805:GLY:HA3	2.01	0.42
1:B:1297:ASN:OD1	1:B:1297:ASN:N	2.53	0.42
1:B:2117:SER:O	1:C:2108:ASN:ND2	2.32	0.42
1:C:194:ARG:HG2	1:C:247:ILE:HD11	2.01	0.42
1:C:217:PHE:HZ	1:C:222:ASN:ND2	2.17	0.42
1:C:632:LYS:O	1:C:635:GLN:HG3	2.19	0.42
1:C:1170:VAL:HG13	1:C:1176:TRP:CZ2	2.54	0.42
1:C:1239:ASN:OD1	1:C:1239:ASN:N	2.51	0.42
1:C:1610:LYS:O	1:C:1644:LEU:HD21	2.19	0.42
1:C:2296:VAL:HG11	1:C:2358:TYR:CE2	2.54	0.42
1:D:304:ARG:HH12	1:D:310:VAL:CG1	2.32	0.42
1:D:555:ARG:HG3	1:D:569:LEU:HD23	2.02	0.42
1:D:1610:LYS:O	1:D:1644:LEU:HD21	2.19	0.42
1:D:1624:THR:HG22	1:D:1641:SER:OG	2.19	0.42
1:D:2243:LYS:HD2	1:D:2243:LYS:HA	1.80	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:2296:VAL:HG11	1:D:2358:TYR:HE2	1.84	0.42
1:E:632:LYS:O	1:E:635:GLN:HG3	2.19	0.42
1:E:1625:ILE:HG12	1:E:1640:TYR:HB3	2.01	0.42
1:E:1625:ILE:HD11	1:E:1654:LEU:HD11	2.01	0.42
1:E:2374:THR:O	1:E:2375:LEU:HD23	2.20	0.42
1:A:632:LYS:O	1:A:635:GLN:HG3	2.19	0.42
1:A:1078:ILE:HG12	1:A:1544:LYS:HD3	2.01	0.42
1:A:2176:GLU:OE1	1:B:2048:LYS:NZ	2.43	0.42
1:B:365:THR:HA	1:B:418:ARG:HH12	1.83	0.42
1:B:1534:LEU:HG	1:B:1536:ILE:HG13	2.02	0.42
1:B:2067:LEU:HA	1:B:2067:LEU:HD23	1.74	0.42
1:C:359:ASN:OD1	1:C:398:SER:OG	2.19	0.42
1:C:1030:GLY:O	1:C:1034:THR:HG23	2.19	0.42
1:C:1534:LEU:HG	1:C:1536:ILE:HG13	2.02	0.42
1:D:413:LYS:HA	1:D:434:THR:HA	2.02	0.42
1:D:2237:ARG:NH2	1:E:2283:GLU:CD	2.74	0.42
1:E:165:LEU:HD23	1:E:963:ASP:OD1	2.20	0.42
1:E:2412:ASP:OD2	1:E:2414:LEU:HD13	2.19	0.42
1:A:456:LEU:HD12	1:A:456:LEU:HA	1.78	0.42
1:A:941:ASP:OD1	1:A:944:ARG:NH1	2.53	0.42
1:A:1502:THR:HA	1:A:1503:ILE:HA	1.71	0.42
1:B:1610:LYS:O	1:B:1644:LEU:HD21	2.19	0.42
1:B:1710:ASN:OD1	1:B:1711:ASN:N	2.52	0.42
1:B:2329:ILE:H	1:B:2329:ILE:HG13	1.71	0.42
1:B:2374:THR:O	1:B:2375:LEU:HD23	2.20	0.42
1:C:972:ILE:HA	1:C:975:THR:HG22	2.02	0.42
1:C:1732:MET:HE2	1:C:1732:MET:HB3	1.88	0.42
1:C:2141:ALA:HB2	1:D:2082:LEU:HB3	2.02	0.42
1:C:2355:LYS:HE2	1:C:2355:LYS:HB2	1.81	0.42
1:D:533:ASN:HD21	1:E:893:SER:CA	2.32	0.42
1:D:874:ASP:OD2	1:D:898:LEU:HD11	2.19	0.42
1:D:1902:ASP:OD1	1:D:1902:ASP:C	2.62	0.42
1:E:215:ARG:NH2	1:E:902:GLY:O	2.47	0.42
1:E:1763:PHE:HE2	1:E:1834:LYS:HD3	1.85	0.42
1:E:2383:GLN:NE2	1:E:2453:LEU:HD11	2.35	0.42
1:A:79:GLU:HG2	1:A:1781:ALA:HB1	2.02	0.42
1:A:299:ALA:HB1	1:A:305:LEU:HD13	2.02	0.42
1:A:686:ILE:O	1:A:688:LYS:HD2	2.20	0.42
1:A:1841:ARG:HD2	1:E:958:THR:HA	2.02	0.42
1:B:699:ALA:N	1:B:700:PRO:HD2	2.35	0.42
1:B:1516:ILE:HG22	1:B:1517:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1983:ARG:NH1	1:B:2419:PHE:O	2.48	0.42
1:B:2238:CYS:HB3	1:B:2257:ILE:HD12	2.01	0.42
1:C:79:GLU:HG2	1:C:1781:ALA:HB1	2.02	0.42
1:C:304:ARG:HH12	1:C:310:VAL:CG1	2.32	0.42
1:C:322:ILE:HG12	1:D:1867:SER:HB2	2.01	0.42
1:C:365:THR:HA	1:C:418:ARG:HH12	1.83	0.42
1:C:1902:ASP:OD1	1:C:1902:ASP:C	2.62	0.42
1:C:2105:MET:HE3	1:C:2105:MET:HB3	1.90	0.42
1:C:2156:GLU:OE1	1:C:2156:GLU:HA	2.19	0.42
1:C:2296:VAL:HG11	1:C:2358:TYR:HE2	1.84	0.42
1:D:268:PHE:HZ	1:D:451:ASN:HB2	1.84	0.42
1:D:287:GLU:CD	1:D:928:ARG:HH22	2.27	0.42
1:D:371:HIS:HA	1:D:387:ASN:O	2.20	0.42
1:D:699:ALA:N	1:D:700:PRO:HD2	2.35	0.42
1:D:1030:GLY:O	1:D:1034:THR:HG23	2.19	0.42
1:D:1297:ASN:N	1:D:1297:ASN:OD1	2.53	0.42
1:D:1921:LEU:HD23	1:D:1921:LEU:HA	1.85	0.42
1:D:2105:MET:O	1:D:2117:SER:OG	2.27	0.42
1:E:413:LYS:HA	1:E:434:THR:HA	2.02	0.42
1:E:807:GLN:O	1:E:811:VAL:HG23	2.18	0.42
1:E:1054:ARG:HA	1:E:1054:ARG:HD2	1.69	0.42
1:E:1311:ASN:HA	1:E:1315:TYR:OH	2.20	0.42
1:E:1502:THR:HA	1:E:1503:ILE:HA	1.71	0.42
1:E:1516:ILE:HG22	1:E:1517:LYS:NZ	2.35	0.42
1:A:1612:TYR:CE1	1:A:1617:HIS:HB2	2.55	0.42
1:B:1502:THR:HA	1:B:1503:ILE:HA	1.71	0.42
1:C:165:LEU:HD23	1:C:963:ASP:OD1	2.20	0.42
1:C:1120:LYS:HE2	1:C:1120:LYS:HB2	1.78	0.42
1:D:299:ALA:HB1	1:D:305:LEU:HD13	2.02	0.42
1:D:1236:LYS:HE3	1:D:1236:LYS:HB2	1.70	0.42
1:D:1534:LEU:HG	1:D:1536:ILE:HG13	2.02	0.42
1:D:1763:PHE:HE2	1:D:1834:LYS:HD3	1.85	0.42
1:D:1865:ILE:HA	1:D:1865:ILE:HD13	1.84	0.42
1:D:2238:CYS:HB3	1:D:2257:ILE:HD12	2.01	0.42
1:D:2374:THR:O	1:D:2375:LEU:HD23	2.20	0.42
1:D:2383:GLN:NE2	1:D:2453:LEU:HD11	2.35	0.42
1:E:21:VAL:N	1:E:1889:ASP:OD2	2.53	0.42
1:E:79:GLU:HG2	1:E:1781:ALA:HB1	2.02	0.42
1:E:371:HIS:HA	1:E:387:ASN:O	2.20	0.42
1:E:686:ILE:O	1:E:688:LYS:HD2	2.20	0.42
1:E:699:ALA:N	1:E:700:PRO:HD2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:367:LYS:HZ3	1:A:428:ASN:HB2	1.85	0.42
1:A:972:ILE:HA	1:A:975:THR:HG22	2.02	0.42
1:A:1050:GLU:O	1:A:1054:ARG:HG2	2.20	0.42
1:A:1317:LEU:HD23	1:A:1317:LEU:HA	1.87	0.42
1:B:367:LYS:HZ3	1:B:428:ASN:HB2	1.85	0.42
1:B:703:THR:O	1:B:707:GLN:N	2.53	0.42
1:B:710:ILE:O	1:B:713:SER:OG	2.30	0.42
1:B:1624:THR:HG22	1:B:1641:SER:OG	2.20	0.42
1:B:1823:LYS:HD2	1:B:1823:LYS:HA	1.76	0.42
1:B:2156:GLU:OE1	1:B:2156:GLU:HA	2.19	0.42
1:C:413:LYS:HA	1:C:434:THR:HA	2.02	0.42
1:C:1078:ILE:HD13	1:C:1544:LYS:HG2	2.02	0.42
1:C:1297:ASN:OD1	1:C:1297:ASN:N	2.53	0.42
1:C:1994:LEU:HD23	1:C:1994:LEU:HA	1.76	0.42
1:C:2238:CYS:HB3	1:C:2257:ILE:HD12	2.01	0.42
1:D:941:ASP:OD1	1:D:944:ARG:NH1	2.53	0.42
1:E:51:HIS:CE1	1:E:55:GLN:HE21	2.38	0.42
1:E:165:LEU:HD12	1:E:165:LEU:HA	1.72	0.42
1:E:299:ALA:HB1	1:E:305:LEU:HD13	2.02	0.42
1:E:1297:ASN:N	1:E:1297:ASN:OD1	2.53	0.42
1:E:1948:LEU:HD13	1:E:1948:LEU:HA	1.90	0.42
1:E:2156:GLU:OE1	1:E:2156:GLU:HA	2.19	0.42
1:A:165:LEU:HD23	1:A:963:ASP:OD1	2.20	0.41
1:A:555:ARG:HG3	1:A:569:LEU:HD23	2.01	0.41
1:A:699:ALA:N	1:A:700:PRO:HD2	2.35	0.41
1:A:2238:CYS:HB3	1:A:2257:ILE:HD12	2.01	0.41
1:A:2389:PHE:HB3	1:A:2403:ILE:CG2	2.49	0.41
1:B:471:LEU:HD22	1:B:482:GLU:HG2	2.02	0.41
1:B:904:ASN:HB3	1:B:907:GLN:HB2	2.02	0.41
1:B:1078:ILE:HD13	1:B:1544:LYS:HG2	2.02	0.41
1:B:1502:THR:HB	1:B:1503:ILE:HB	2.02	0.41
1:B:2119:TRP:NE1	1:C:2108:ASN:HB3	2.35	0.41
1:B:2279:LEU:HD23	1:B:2279:LEU:HA	1.86	0.41
1:C:299:ALA:HB1	1:C:305:LEU:HD13	2.02	0.41
1:C:2374:THR:O	1:C:2375:LEU:HD23	2.20	0.41
1:D:79:GLU:HG2	1:D:1781:ALA:HB1	2.02	0.41
1:D:130:LEU:HD13	1:D:975:THR:HG21	2.00	0.41
1:D:464:PRO:HA	1:D:467:THR:HG22	2.02	0.41
1:D:1887:PHE:CZ	1:D:1891:ILE:HD11	2.54	0.41
1:E:703:THR:O	1:E:707:GLN:N	2.53	0.41
1:E:2375:LEU:HD22	1:E:2460:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:ARG:HD3	1:A:1881:LYS:HZ1	1.85	0.41
1:A:849:LEU:HA	1:A:854:GLN:OE1	2.21	0.41
1:A:1184:ILE:HD12	1:A:1212:TRP:CH2	2.55	0.41
1:A:1625:ILE:HG12	1:A:1640:TYR:HB3	2.01	0.41
1:A:1678:TYR:HA	1:A:1691:ILE:O	2.20	0.41
1:B:150:VAL:O	1:B:155:ASN:ND2	2.50	0.41
1:B:2114:VAL:HG12	1:D:1153:LYS:HD3	2.02	0.41
1:C:471:LEU:HD22	1:C:482:GLU:HG2	2.02	0.41
1:C:699:ALA:N	1:C:700:PRO:HD2	2.35	0.41
1:C:1184:ILE:HD12	1:C:1212:TRP:CH2	2.55	0.41
1:C:1316:LYS:H	1:C:1317:LEU:HA	1.85	0.41
1:C:1624:THR:HG22	1:C:1641:SER:OG	2.19	0.41
1:C:1710:ASN:OD1	1:C:1711:ASN:N	2.52	0.41
1:D:307:THR:HA	1:D:308:PRO:HA	1.83	0.41
1:D:632:LYS:O	1:D:635:GLN:HG3	2.19	0.41
1:D:840:LEU:HD22	1:D:858:LEU:HD11	2.01	0.41
1:D:1625:ILE:HG12	1:D:1640:TYR:HB3	2.01	0.41
1:E:941:ASP:OD1	1:E:944:ARG:NH1	2.53	0.41
1:E:1902:ASP:OD1	1:E:1902:ASP:C	2.62	0.41
1:E:2238:CYS:HB3	1:E:2257:ILE:HD12	2.01	0.41
1:A:498:ILE:HD12	1:A:502:THR:HG22	2.03	0.41
1:A:1082:ASN:HB2	1:A:1084:TRP:CZ3	2.55	0.41
1:A:1502:THR:HB	1:A:1503:ILE:HB	2.02	0.41
1:A:2210:PHE:CD2	1:B:2009:ILE:HG21	2.55	0.41
1:B:299:ALA:HB1	1:B:305:LEU:HD13	2.02	0.41
1:B:413:LYS:HA	1:B:434:THR:HA	2.02	0.41
1:B:840:LEU:HD22	1:B:858:LEU:HD11	2.01	0.41
1:B:1082:ASN:HB2	1:B:1084:TRP:CZ3	2.55	0.41
1:C:555:ARG:HG3	1:C:569:LEU:HD23	2.02	0.41
1:C:1173:ASP:N	1:C:1173:ASP:OD1	2.49	0.41
1:C:1777:ALA:HB3	1:C:1781:ALA:O	2.20	0.41
1:C:2383:GLN:NE2	1:C:2453:LEU:HD11	2.35	0.41
1:D:194:ARG:HG2	1:D:247:ILE:HD11	2.01	0.41
1:D:972:ILE:HA	1:D:975:THR:HG22	2.02	0.41
1:D:1078:ILE:HG12	1:D:1544:LYS:HD3	2.01	0.41
1:E:268:PHE:HZ	1:E:451:ASN:HB2	1.84	0.41
1:E:849:LEU:HA	1:E:854:GLN:OE1	2.21	0.41
1:E:1612:TYR:CE1	1:E:1617:HIS:HB2	2.55	0.41
1:A:21:VAL:N	1:A:1889:ASP:OD2	2.53	0.41
1:A:829:LEU:O	1:A:831:LEU:HD12	2.21	0.41
1:A:1078:ILE:HD13	1:A:1544:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1269:PHE:CE2	1:A:1291:TYR:HB2	2.56	0.41
1:A:2383:GLN:NE2	1:A:2453:LEU:HD11	2.35	0.41
1:B:51:HIS:CE1	1:B:55:GLN:HE21	2.38	0.41
1:B:79:GLU:HG2	1:B:1781:ALA:HB1	2.02	0.41
1:B:829:LEU:O	1:B:831:LEU:HD12	2.21	0.41
1:B:849:LEU:HA	1:B:854:GLN:OE1	2.21	0.41
1:B:1050:GLU:O	1:B:1054:ARG:HG2	2.20	0.41
1:B:1141:ARG:HB2	1:C:1576:ILE:HD11	2.02	0.41
1:B:1184:ILE:HD12	1:B:1212:TRP:CH2	2.55	0.41
1:B:1316:LYS:H	1:B:1317:LEU:HA	1.85	0.41
1:B:1561:ASP:OD2	1:B:1561:ASP:N	2.54	0.41
1:B:2161:LYS:HB3	1:B:2161:LYS:HE2	1.75	0.41
1:B:2180:VAL:O	1:B:2183:THR:HG22	2.21	0.41
1:B:2296:VAL:HG11	1:B:2358:TYR:HE2	1.84	0.41
1:C:1050:GLU:O	1:C:1054:ARG:HG2	2.20	0.41
1:C:1516:ILE:HG22	1:C:1517:LYS:NZ	2.35	0.41
1:C:1561:ASP:OD2	1:C:1561:ASP:N	2.54	0.41
1:D:1041:GLN:H	1:D:1041:GLN:HG2	1.63	0.41
1:D:1502:THR:HB	1:D:1503:ILE:HB	2.02	0.41
1:E:1502:THR:HB	1:E:1503:ILE:HB	2.02	0.41
1:E:2249:THR:O	1:E:2251:ASP:N	2.48	0.41
1:A:1610:LYS:O	1:A:1644:LEU:HD21	2.19	0.41
1:A:1763:PHE:HE2	1:A:1834:LYS:HD3	1.85	0.41
1:A:2229:ARG:CZ	1:E:685:GLY:H	2.34	0.41
1:B:498:ILE:HD12	1:B:502:THR:HG22	2.03	0.41
1:B:994:LYS:HE2	1:B:994:LYS:HB2	1.87	0.41
1:B:1777:ALA:HB3	1:B:1781:ALA:O	2.20	0.41
1:B:2176:GLU:OE1	1:C:2048:LYS:NZ	2.48	0.41
1:B:2383:GLN:NE2	1:B:2453:LEU:HD11	2.35	0.41
1:C:829:LEU:O	1:C:831:LEU:HD12	2.21	0.41
1:C:849:LEU:HA	1:C:854:GLN:OE1	2.21	0.41
1:C:1612:TYR:CE1	1:C:1617:HIS:HB2	2.55	0.41
1:D:1453:ILE:HB	1:D:1480:ARG:NH2	2.36	0.41
1:D:2287:LEU:HD23	1:D:2287:LEU:HA	1.86	0.41
1:E:282:LEU:HB3	1:E:293:ILE:HD13	2.02	0.41
1:E:2037:GLU:O	1:E:2041:THR:HG23	2.21	0.41
1:A:1516:ILE:HG22	1:A:1517:LYS:NZ	2.35	0.41
1:B:21:VAL:N	1:B:1889:ASP:OD2	2.53	0.41
1:B:1713:THR:HG23	1:B:1717:LEU:HG	2.03	0.41
1:B:2389:PHE:HB3	1:B:2403:ILE:CG2	2.49	0.41
1:B:2408:GLY:N	1:B:2411:ASP:OD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:21:VAL:N	1:C:1889:ASP:OD2	2.53	0.41
1:C:367:LYS:HZ3	1:C:428:ASN:HB2	1.85	0.41
1:C:941:ASP:OD1	1:C:944:ARG:NH1	2.53	0.41
1:C:1625:ILE:HG12	1:C:1640:TYR:HB3	2.01	0.41
1:C:1921:LEU:HD23	1:C:1921:LEU:HA	1.85	0.41
1:C:2243:LYS:HA	1:C:2243:LYS:HD2	1.80	0.41
1:D:1078:ILE:HD13	1:D:1544:LYS:HG2	2.02	0.41
1:D:2344:HIS:HD2	1:D:2439:THR:HG23	1.84	0.41
1:D:2375:LEU:HD22	1:D:2460:ILE:HG12	2.02	0.41
1:E:464:PRO:HA	1:E:467:THR:HG22	2.03	0.41
1:E:972:ILE:HA	1:E:975:THR:HG22	2.02	0.41
1:E:1561:ASP:OD2	1:E:1561:ASP:N	2.54	0.41
1:E:2296:VAL:HG11	1:E:2358:TYR:HE2	1.84	0.41
1:A:1093:PRO:HG3	1:D:2102:ALA:HB2	2.03	0.41
1:A:1311:ASN:HA	1:A:1315:TYR:OH	2.20	0.41
1:A:2296:VAL:HG11	1:A:2358:TYR:HE2	1.84	0.41
1:B:26:PHE:CE2	1:B:50:LEU:HD21	2.56	0.41
1:B:2223:LEU:HB2	1:C:2270:MET:SD	2.61	0.41
1:B:2375:LEU:HD22	1:B:2460:ILE:HG12	2.02	0.41
1:C:26:PHE:CE2	1:C:50:LEU:HD21	2.56	0.41
1:C:685:GLY:HA3	1:D:2229:ARG:NE	2.36	0.41
1:C:1082:ASN:HB2	1:C:1084:TRP:CZ3	2.55	0.41
1:C:1086:ILE:HD13	1:C:1086:ILE:HA	1.89	0.41
1:C:1311:ASN:HA	1:C:1315:TYR:OH	2.19	0.41
1:C:1678:TYR:HA	1:C:1691:ILE:O	2.20	0.41
1:C:2037:GLU:O	1:C:2041:THR:HG23	2.20	0.41
1:C:2180:VAL:O	1:C:2183:THR:HG22	2.21	0.41
1:C:2375:LEU:HD22	1:C:2460:ILE:HG12	2.02	0.41
1:D:21:VAL:N	1:D:1889:ASP:OD2	2.53	0.41
1:D:26:PHE:CE2	1:D:50:LEU:HD21	2.56	0.41
1:D:690:ASN:OD1	1:D:690:ASN:N	2.51	0.41
1:D:849:LEU:HA	1:D:854:GLN:OE1	2.21	0.41
1:D:1170:VAL:HG13	1:D:1176:TRP:CZ2	2.54	0.41
1:D:1184:ILE:HD12	1:D:1212:TRP:CH2	2.55	0.41
1:D:1517:LYS:HA	1:D:1533:LYS:HA	2.03	0.41
1:D:1612:TYR:CE1	1:D:1617:HIS:HB2	2.55	0.41
1:D:2008:LEU:HD23	1:D:2008:LEU:HA	1.90	0.41
1:E:411:LYS:HD2	1:E:434:THR:HG21	2.03	0.41
1:E:1078:ILE:HG12	1:E:1544:LYS:HD3	2.01	0.41
1:E:1170:VAL:HG13	1:E:1176:TRP:CZ2	2.54	0.41
1:E:1316:LYS:H	1:E:1317:LEU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2067:LEU:HD23	1:E:2067:LEU:HA	1.74	0.41
1:A:413:LYS:HA	1:A:434:THR:HA	2.02	0.41
1:A:1453:ILE:HB	1:A:1480:ARG:NH2	2.36	0.41
1:A:1777:ALA:HB3	1:A:1781:ALA:O	2.20	0.41
1:A:2175:LEU:HD23	1:A:2175:LEU:HA	1.90	0.41
1:B:371:HIS:HA	1:B:387:ASN:O	2.20	0.41
1:B:373:SER:N	1:B:417:THR:O	2.36	0.41
1:B:1763:PHE:HE2	1:B:1834:LYS:HD3	1.85	0.41
1:B:2037:GLU:O	1:B:2041:THR:HG23	2.21	0.41
1:C:371:HIS:HA	1:C:387:ASN:O	2.20	0.41
1:C:2030:LEU:HA	1:C:2030:LEU:HD23	1.71	0.41
1:D:51:HIS:CE1	1:D:55:GLN:HE21	2.38	0.41
1:D:1502:THR:HA	1:D:1503:ILE:HA	1.71	0.41
1:D:2037:GLU:O	1:D:2041:THR:HG23	2.21	0.41
1:E:471:LEU:HD22	1:E:482:GLU:HG2	2.02	0.41
1:E:1050:GLU:O	1:E:1054:ARG:HG2	2.20	0.41
1:E:1453:ILE:HB	1:E:1480:ARG:NH2	2.36	0.41
1:A:51:HIS:CE1	1:A:55:GLN:HE21	2.38	0.41
1:A:336:THR:HG23	1:A:434:THR:HG22	2.03	0.41
1:A:371:HIS:HA	1:A:387:ASN:O	2.20	0.41
1:A:680:LEU:HD23	1:A:680:LEU:HA	1.88	0.41
1:A:1067:LYS:HE2	1:A:1067:LYS:HB2	1.85	0.41
1:A:1316:LYS:H	1:A:1317:LEU:HA	1.85	0.41
1:A:1576:ILE:HD11	1:E:1141:ARG:HB2	2.03	0.41
1:A:1713:THR:HG23	1:A:1717:LEU:HG	2.03	0.41
1:A:2037:GLU:O	1:A:2041:THR:HG23	2.20	0.41
1:A:2187:MET:HE1	1:B:2034:ARG:O	2.20	0.41
1:A:2209:LYS:HB2	1:B:2013:ASP:OD1	2.21	0.41
1:B:174:LEU:HD23	1:B:174:LEU:HA	1.86	0.41
1:B:555:ARG:HG3	1:B:569:LEU:HD23	2.02	0.41
1:B:686:ILE:O	1:B:688:LYS:HD2	2.20	0.41
1:B:1612:TYR:CE1	1:B:1617:HIS:HB2	2.55	0.41
1:C:165:LEU:HA	1:C:165:LEU:HD12	1.72	0.41
1:C:373:SER:N	1:C:417:THR:O	2.36	0.41
1:C:411:LYS:HD2	1:C:434:THR:HG21	2.03	0.41
1:C:470:ALA:HA	1:C:504:LEU:HD11	2.03	0.41
1:C:1054:ARG:HD2	1:C:1054:ARG:HA	1.69	0.41
1:C:1099:ARG:HH11	1:C:1099:ARG:HD2	1.73	0.41
1:C:1453:ILE:HB	1:C:1480:ARG:NH2	2.36	0.41
1:C:1502:THR:HB	1:C:1503:ILE:HB	2.02	0.41
1:C:2175:LEU:HD23	1:C:2175:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2434:ASP:CG	1:C:2435:ASP:H	2.26	0.41
1:D:165:LEU:HD23	1:D:963:ASP:OD1	2.20	0.41
1:D:217:PHE:HZ	1:D:222:ASN:HD21	1.69	0.41
1:D:686:ILE:O	1:D:688:LYS:HD2	2.20	0.41
1:D:904:ASN:HB3	1:D:907:GLN:HB2	2.02	0.41
1:D:1171:LYS:HB3	1:E:1058:THR:HG23	2.02	0.41
1:D:1239:ASN:OD1	1:D:1239:ASN:N	2.51	0.41
1:D:1269:PHE:CE2	1:D:1291:TYR:HB2	2.56	0.41
1:D:1316:LYS:H	1:D:1317:LEU:HA	1.85	0.41
1:D:1508:ASP:OD1	1:D:1508:ASP:N	2.54	0.41
1:D:1561:ASP:OD2	1:D:1561:ASP:N	2.54	0.41
1:D:1713:THR:HG23	1:D:1717:LEU:HG	2.03	0.41
1:D:2370:GLN:HG2	1:D:2371:ILE:N	2.36	0.41
1:E:217:PHE:HZ	1:E:222:ASN:HD21	1.69	0.41
1:E:367:LYS:HZ3	1:E:428:ASN:HB2	1.85	0.41
1:E:373:SER:HB3	1:E:382:ASN:OD1	2.21	0.41
1:E:498:ILE:HD12	1:E:502:THR:HG22	2.03	0.41
1:E:1078:ILE:HD13	1:E:1544:LYS:HG2	2.02	0.41
1:E:1082:ASN:HB2	1:E:1084:TRP:CZ3	2.55	0.41
1:E:1184:ILE:HD12	1:E:1212:TRP:CH2	2.55	0.41
1:E:1517:LYS:HA	1:E:1533:LYS:HA	2.03	0.41
1:A:174:LEU:HD23	1:A:174:LEU:HA	1.86	0.41
1:A:471:LEU:HD22	1:A:482:GLU:HG2	2.02	0.41
1:A:904:ASN:HB3	1:A:907:GLN:HB2	2.02	0.41
1:A:1956:ASP:OD2	1:A:1957:PRO:HD2	2.21	0.41
1:A:2180:VAL:O	1:A:2183:THR:HG22	2.21	0.41
1:A:2408:GLY:N	1:A:2411:ASP:OD1	2.50	0.41
1:B:624:MET:HE3	1:B:624:MET:HB2	1.97	0.41
1:B:873:LYS:HB3	1:B:873:LYS:HE3	1.88	0.41
1:B:1263:LEU:HD23	1:B:1263:LEU:HA	1.81	0.41
1:B:1678:TYR:HA	1:B:1691:ILE:O	2.21	0.41
1:B:2098:MET:HE2	1:B:2098:MET:HB2	1.81	0.41
1:C:282:LEU:HB3	1:C:293:ILE:HD13	2.02	0.41
1:C:573:LEU:HD12	1:C:573:LEU:HA	1.78	0.41
1:C:1269:PHE:CE2	1:C:1291:TYR:HB2	2.56	0.41
1:C:1502:THR:HA	1:C:1503:ILE:HA	1.71	0.41
1:D:128:ARG:HD3	1:D:1881:LYS:HZ1	1.85	0.41
1:D:282:LEU:HB3	1:D:293:ILE:HD13	2.02	0.41
1:D:1777:ALA:HB3	1:D:1781:ALA:O	2.20	0.41
1:E:829:LEU:O	1:E:831:LEU:HD12	2.21	0.41
1:E:1029:THR:OG1	1:E:1744:GLU:OE1	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2287:LEU:HD23	1:E:2287:LEU:HA	1.86	0.41
1:A:315:ASN:HB3	1:A:335:LYS:HG2	2.03	0.40
1:A:373:SER:HB3	1:A:382:ASN:OD1	2.21	0.40
1:A:864:LEU:HD12	1:A:864:LEU:HA	1.84	0.40
1:A:2161:LYS:HE2	1:A:2161:LYS:HB3	1.75	0.40
1:B:165:LEU:HD23	1:B:963:ASP:OD1	2.20	0.40
1:B:336:THR:HG23	1:B:434:THR:HG22	2.04	0.40
1:C:51:HIS:CE1	1:C:55:GLN:HE21	2.38	0.40
1:C:336:THR:HG23	1:C:434:THR:HG22	2.04	0.40
1:C:464:PRO:HA	1:C:467:THR:HG22	2.03	0.40
1:C:702:ILE:HD13	1:C:702:ILE:HA	1.94	0.40
1:C:904:ASN:HB3	1:C:907:GLN:HB2	2.02	0.40
1:C:1517:LYS:HA	1:C:1533:LYS:HA	2.03	0.40
1:C:1653:LYS:HB3	1:C:1653:LYS:HE3	1.84	0.40
1:C:2275:LEU:HD23	1:C:2275:LEU:HA	1.78	0.40
1:C:2344:HIS:HD2	1:C:2439:THR:HG23	1.84	0.40
1:D:335:LYS:NZ	1:D:346:ILE:O	2.51	0.40
1:D:1269:PHE:N	1:D:1269:PHE:CD1	2.90	0.40
1:D:2300:VAL:HB	1:D:2462:ILE:HG22	2.04	0.40
1:E:555:ARG:HG3	1:E:569:LEU:HD23	2.02	0.40
1:A:335:LYS:NZ	1:A:346:ILE:O	2.51	0.40
1:A:703:THR:O	1:A:707:GLN:N	2.53	0.40
1:A:1041:GLN:H	1:A:1041:GLN:HG2	1.63	0.40
1:A:2123:PRO:HB2	1:B:2100:ALA:HB2	2.03	0.40
1:A:2300:VAL:HB	1:A:2462:ILE:HG22	2.04	0.40
1:A:2449:LYS:O	1:A:2452:PRO:HD2	2.22	0.40
1:B:282:LEU:HB3	1:B:293:ILE:HD13	2.02	0.40
1:B:315:ASN:HB3	1:B:335:LYS:HG2	2.04	0.40
1:B:378:LYS:HZ2	1:B:430:TYR:HE2	1.68	0.40
1:B:470:ALA:HA	1:B:504:LEU:HD11	2.03	0.40
1:B:1269:PHE:CE2	1:B:1291:TYR:HB2	2.56	0.40
1:B:1948:LEU:HD13	1:B:1948:LEU:HA	1.90	0.40
1:B:2370:GLN:HG2	1:B:2371:ILE:N	2.36	0.40
1:C:703:THR:O	1:C:707:GLN:N	2.53	0.40
1:C:1110:ARG:HA	1:C:1110:ARG:HD2	1.93	0.40
1:C:1269:PHE:N	1:C:1269:PHE:CD1	2.90	0.40
1:D:829:LEU:O	1:D:831:LEU:HD12	2.21	0.40
1:D:1050:GLU:O	1:D:1054:ARG:HG2	2.20	0.40
1:D:1977:ALA:HB1	1:D:2243:LYS:CG	2.52	0.40
1:D:2180:VAL:HG13	1:E:2038:GLN:OE1	2.21	0.40
1:E:1269:PHE:CE2	1:E:1291:TYR:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:2275:LEU:HD23	1:E:2275:LEU:HA	1.78	0.40
1:E:2344:HIS:HD2	1:E:2439:THR:HG23	1.84	0.40
1:E:2389:PHE:HB3	1:E:2403:ILE:CG2	2.49	0.40
1:A:282:LEU:HB3	1:A:293:ILE:HD13	2.02	0.40
1:A:470:ALA:HA	1:A:504:LEU:HD11	2.03	0.40
1:A:494:LYS:HB2	1:A:494:LYS:HE3	1.69	0.40
1:A:1263:LEU:HA	1:A:1263:LEU:HD23	1.81	0.40
1:B:146:LEU:HA	1:B:146:LEU:HD23	1.83	0.40
1:B:208:ILE:HG13	1:B:896:ALA:HB2	2.04	0.40
1:B:2148:GLU:O	1:B:2152:ARG:HG2	2.22	0.40
1:C:256:THR:HG22	1:C:257:GLY:N	2.35	0.40
1:C:994:LYS:HE2	1:C:994:LYS:HB2	1.87	0.40
1:D:1025:ARG:NH2	1:D:1028:GLN:HA	2.37	0.40
1:D:1082:ASN:HB2	1:D:1084:TRP:CZ3	2.55	0.40
1:D:2030:LEU:HD11	1:E:1959:ALA:CB	2.52	0.40
1:E:26:PHE:CE2	1:E:50:LEU:HD21	2.56	0.40
1:E:702:ILE:HD13	1:E:702:ILE:HA	1.94	0.40
1:E:1269:PHE:N	1:E:1269:PHE:CD1	2.90	0.40
1:E:2180:VAL:O	1:E:2183:THR:HG22	2.21	0.40
1:E:2300:VAL:HB	1:E:2462:ILE:HG22	2.03	0.40
1:A:288:LEU:HD22	1:A:289:PRO:HD2	2.04	0.40
1:A:464:PRO:HA	1:A:467:THR:HG22	2.02	0.40
1:A:1280:LYS:HA	1:A:1280:LYS:HD2	1.82	0.40
1:A:2386:ARG:H	1:A:2386:ARG:HG3	1.75	0.40
1:B:411:LYS:HD2	1:B:434:THR:HG21	2.03	0.40
1:B:566:ASN:HB3	1:C:871:THR:HG21	2.03	0.40
1:C:923:LEU:HD23	1:C:923:LEU:HA	1.79	0.40
1:C:1752:MET:HE2	1:C:1752:MET:HB3	1.94	0.40
1:C:1763:PHE:HE2	1:C:1834:LYS:HD3	1.85	0.40
1:C:1977:ALA:HB1	1:C:2243:LYS:CG	2.52	0.40
1:C:2068:TYR:CE1	1:C:2158:GLU:HB2	2.56	0.40
1:D:134:ASP:N	1:D:134:ASP:OD1	2.54	0.40
1:D:336:THR:HG23	1:D:434:THR:HG22	2.03	0.40
1:D:471:LEU:HD22	1:D:482:GLU:HG2	2.02	0.40
1:D:2148:GLU:O	1:D:2152:ARG:HG2	2.22	0.40
1:D:2237:ARG:NH2	1:E:2283:GLU:CG	2.84	0.40
1:E:315:ASN:HB3	1:E:335:LYS:HG2	2.04	0.40
1:E:335:LYS:NZ	1:E:346:ILE:O	2.51	0.40
1:E:1678:TYR:HA	1:E:1691:ILE:O	2.21	0.40
1:E:2148:GLU:O	1:E:2152:ARG:HG2	2.22	0.40
1:E:2404:ALA:O	1:E:2405:LEU:HG	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:76:LEU:O	1:A:80:MET:HG2	2.22	0.40
1:A:217:PHE:HZ	1:A:222:ASN:HD21	1.69	0.40
1:A:1297:ASN:OD1	1:A:1297:ASN:N	2.53	0.40
1:A:1679:LEU:O	1:A:1714:PHE:HE1	2.05	0.40
1:A:2404:ALA:O	1:A:2405:LEU:HG	2.22	0.40
1:A:2420:ASN:CG	1:E:2416:ARG:NH1	2.80	0.40
1:B:171:GLU:OE2	1:B:187:TYR:OH	2.25	0.40
1:B:294:GLN:HE22	1:C:1865:ILE:HA	1.86	0.40
1:B:373:SER:HB3	1:B:382:ASN:OD1	2.21	0.40
1:B:972:ILE:HA	1:B:975:THR:HG22	2.02	0.40
1:B:2008:LEU:HD23	1:B:2008:LEU:HA	1.90	0.40
1:B:2403:ILE:HB	1:B:2427:PHE:HE2	1.87	0.40
1:B:2449:LYS:O	1:B:2452:PRO:HD2	2.22	0.40
1:C:373:SER:HB3	1:C:382:ASN:OD1	2.21	0.40
1:C:498:ILE:HD12	1:C:502:THR:HG22	2.03	0.40
1:C:686:ILE:O	1:C:688:LYS:HD2	2.20	0.40
1:D:256:THR:HG22	1:D:257:GLY:N	2.35	0.40
1:D:408:LEU:O	1:D:437:ILE:HG22	2.22	0.40
1:D:411:LYS:HG3	1:D:434:THR:OG1	2.22	0.40
1:D:1271:PHE:CZ	1:D:1534:LEU:HD13	2.57	0.40
1:D:2001:PHE:HE1	1:E:1999:MET:CE	2.35	0.40
1:D:2449:LYS:O	1:D:2452:PRO:HD2	2.22	0.40
1:E:134:ASP:OD1	1:E:134:ASP:N	2.54	0.40
1:E:288:LEU:HD22	1:E:289:PRO:HD2	2.04	0.40
1:E:1271:PHE:CZ	1:E:1534:LEU:HD13	2.57	0.40
1:E:1508:ASP:OD1	1:E:1508:ASP:N	2.54	0.40
1:E:1653:LYS:HB3	1:E:1653:LYS:HE3	1.85	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	2273/2469 (92%)	2101 (92%)	168 (7%)	4 (0%)	43	73
1	B	2273/2469 (92%)	2101 (92%)	168 (7%)	4 (0%)	43	73
1	C	2273/2469 (92%)	2101 (92%)	168 (7%)	4 (0%)	43	73
1	D	2273/2469 (92%)	2100 (92%)	169 (7%)	4 (0%)	43	73
1	E	2273/2469 (92%)	2101 (92%)	168 (7%)	4 (0%)	43	73
All	All	11365/12345 (92%)	10504 (92%)	841 (7%)	20 (0%)	44	73

All (20) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1723	THR
1	A	1724	GLY
1	B	1723	THR
1	B	1724	GLY
1	C	1723	THR
1	C	1724	GLY
1	D	1723	THR
1	D	1724	GLY
1	E	1723	THR
1	E	1724	GLY
1	A	1485	PRO
1	B	1485	PRO
1	C	1485	PRO
1	D	1485	PRO
1	E	1485	PRO
1	A	1709	VAL
1	B	1709	VAL
1	C	1709	VAL
1	D	1709	VAL
1	E	1709	VAL

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1886/2101 (90%)	1832 (97%)	54 (3%)	37	67
1	B	1886/2101 (90%)	1832 (97%)	54 (3%)	37	67
1	C	1886/2101 (90%)	1834 (97%)	52 (3%)	38	68
1	D	1886/2101 (90%)	1832 (97%)	54 (3%)	37	67
1	E	1886/2101 (90%)	1833 (97%)	53 (3%)	38	68
All	All	9430/10505 (90%)	9163 (97%)	267 (3%)	38	68

All (267) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	49	LEU
1	A	150	VAL
1	A	183	LYS
1	A	324	THR
1	A	398	SER
1	A	442	GLU
1	A	544	ILE
1	A	608	THR
1	A	678	LEU
1	A	709	ASP
1	A	734	GLU
1	A	787	THR
1	A	834	GLU
1	A	835	VAL
1	A	851	THR
1	A	906	GLN
1	A	960	LEU
1	A	1023	THR
1	A	1126	VAL
1	A	1162	SER
1	A	1181	SER
1	A	1190	SER
1	A	1259	VAL
1	A	1285	VAL
1	A	1471	THR
1	A	1490	GLU
1	A	1523	THR
1	A	1529	THR
1	A	1572	THR
1	A	1591	THR
1	A	1596	GLU

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Mol	Chain	Res	Type
1	A	1652	VAL
1	A	1723	THR
1	A	1735	SER
1	A	1760	GLU
1	A	1902	ASP
1	A	1944	GLN
1	A	1948	LEU
1	A	1968	SER
1	A	1976	SER
1	A	1982	MET
1	A	2085	SER
1	A	2093	ILE
1	A	2131	SER
1	A	2145	SER
1	A	2156	GLU
1	A	2166	SER
1	A	2249	THR
1	A	2274	SER
1	A	2305	VAL
1	A	2317	ILE
1	A	2374	THR
1	A	2417	LEU
1	A	2433	ASP
1	B	49	LEU
1	B	150	VAL
1	B	183	LYS
1	B	324	THR
1	B	398	SER
1	B	442	GLU
1	B	544	ILE
1	B	608	THR
1	B	678	LEU
1	B	709	ASP
1	B	734	GLU
1	B	787	THR
1	B	834	GLU
1	B	835	VAL
1	B	851	THR
1	B	906	GLN
1	B	960	LEU
1	B	1023	THR
1	B	1126	VAL

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Mol	Chain	Res	Type
1	B	1162	SER
1	B	1181	SER
1	B	1190	SER
1	B	1259	VAL
1	B	1285	VAL
1	B	1471	THR
1	B	1490	GLU
1	B	1523	THR
1	B	1529	THR
1	B	1572	THR
1	B	1591	THR
1	B	1596	GLU
1	B	1652	VAL
1	B	1723	THR
1	B	1735	SER
1	B	1760	GLU
1	B	1902	ASP
1	B	1944	GLN
1	B	1948	LEU
1	B	1968	SER
1	B	1976	SER
1	B	1982	MET
1	B	2085	SER
1	B	2093	ILE
1	B	2131	SER
1	B	2145	SER
1	B	2156	GLU
1	B	2166	SER
1	B	2249	THR
1	B	2274	SER
1	B	2305	VAL
1	B	2317	ILE
1	B	2374	THR
1	B	2417	LEU
1	B	2433	ASP
1	C	49	LEU
1	C	150	VAL
1	C	183	LYS
1	C	324	THR
1	C	398	SER
1	C	442	GLU
1	C	544	ILE

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Mol	Chain	Res	Type
1	C	608	THR
1	C	678	LEU
1	C	709	ASP
1	C	734	GLU
1	C	787	THR
1	C	834	GLU
1	C	835	VAL
1	C	851	THR
1	C	906	GLN
1	C	1023	THR
1	C	1126	VAL
1	C	1162	SER
1	C	1181	SER
1	C	1190	SER
1	C	1259	VAL
1	C	1285	VAL
1	C	1471	THR
1	C	1490	GLU
1	C	1523	THR
1	C	1529	THR
1	C	1572	THR
1	C	1591	THR
1	C	1596	GLU
1	C	1652	VAL
1	C	1723	THR
1	C	1735	SER
1	C	1760	GLU
1	C	1902	ASP
1	C	1948	LEU
1	C	1968	SER
1	C	1976	SER
1	C	1982	MET
1	C	2085	SER
1	C	2093	ILE
1	C	2131	SER
1	C	2145	SER
1	C	2156	GLU
1	C	2166	SER
1	C	2249	THR
1	C	2274	SER
1	C	2305	VAL
1	C	2317	ILE

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Mol	Chain	Res	Type
1	C	2374	THR
1	C	2417	LEU
1	C	2433	ASP
1	D	49	LEU
1	D	150	VAL
1	D	183	LYS
1	D	324	THR
1	D	398	SER
1	D	442	GLU
1	D	544	ILE
1	D	608	THR
1	D	678	LEU
1	D	709	ASP
1	D	734	GLU
1	D	787	THR
1	D	834	GLU
1	D	835	VAL
1	D	851	THR
1	D	906	GLN
1	D	960	LEU
1	D	1023	THR
1	D	1126	VAL
1	D	1162	SER
1	D	1181	SER
1	D	1190	SER
1	D	1259	VAL
1	D	1285	VAL
1	D	1471	THR
1	D	1490	GLU
1	D	1523	THR
1	D	1529	THR
1	D	1572	THR
1	D	1591	THR
1	D	1596	GLU
1	D	1652	VAL
1	D	1723	THR
1	D	1735	SER
1	D	1760	GLU
1	D	1902	ASP
1	D	1944	GLN
1	D	1948	LEU
1	D	1968	SER

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Mol	Chain	Res	Type
1	D	1976	SER
1	D	1982	MET
1	D	2085	SER
1	D	2093	ILE
1	D	2131	SER
1	D	2145	SER
1	D	2156	GLU
1	D	2166	SER
1	D	2249	THR
1	D	2274	SER
1	D	2305	VAL
1	D	2317	ILE
1	D	2374	THR
1	D	2417	LEU
1	D	2433	ASP
1	E	49	LEU
1	E	150	VAL
1	E	183	LYS
1	E	324	THR
1	E	398	SER
1	E	442	GLU
1	E	544	ILE
1	E	608	THR
1	E	678	LEU
1	E	709	ASP
1	E	734	GLU
1	E	787	THR
1	E	834	GLU
1	E	835	VAL
1	E	851	THR
1	E	906	GLN
1	E	1023	THR
1	E	1126	VAL
1	E	1162	SER
1	E	1181	SER
1	E	1190	SER
1	E	1259	VAL
1	E	1285	VAL
1	E	1471	THR
1	E	1490	GLU
1	E	1523	THR
1	E	1529	THR

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Mol	Chain	Res	Type
1	E	1572	THR
1	E	1591	THR
1	E	1596	GLU
1	E	1652	VAL
1	E	1723	THR
1	E	1735	SER
1	E	1760	GLU
1	E	1902	ASP
1	E	1944	GLN
1	E	1948	LEU
1	E	1968	SER
1	E	1976	SER
1	E	1982	MET
1	E	2085	SER
1	E	2093	ILE
1	E	2131	SER
1	E	2145	SER
1	E	2156	GLU
1	E	2166	SER
1	E	2249	THR
1	E	2274	SER
1	E	2305	VAL
1	E	2317	ILE
1	E	2374	THR
1	E	2417	LEU
1	E	2433	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (197) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	38	ASN
1	A	51	HIS
1	A	73	ASN
1	A	158	ASN
1	A	184	ASN
1	A	209	HIS
1	A	216	ASN
1	A	315	ASN
1	A	371	HIS
1	A	451	ASN
1	A	468	GLN
1	A	528	ASN

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Mol	Chain	Res	Type
1	A	816	GLN
1	A	920	ASN
1	A	934	ASN
1	A	973	ASN
1	A	1028	GLN
1	A	1073	HIS
1	A	1108	ASN
1	A	1150	GLN
1	A	1227	HIS
1	A	1264	ASN
1	A	1288	HIS
1	A	1580	ASN
1	A	1617	HIS
1	A	1649	ASN
1	A	1680	ASN
1	A	1811	ASN
1	A	1815	HIS
1	A	1883	GLN
1	A	1997	GLN
1	A	2058	GLN
1	A	2146	GLN
1	A	2278	ASN
1	A	2310	ASN
1	A	2328	ASN
1	A	2394	ASN
1	B	38	ASN
1	B	51	HIS
1	B	73	ASN
1	B	209	HIS
1	B	216	ASN
1	B	294	GLN
1	B	315	ASN
1	B	371	HIS
1	B	451	ASN
1	B	468	GLN
1	B	528	ASN
1	B	533	ASN
1	B	816	GLN
1	B	920	ASN
1	B	934	ASN
1	B	973	ASN
1	B	1028	GLN

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Mol	Chain	Res	Type
1	B	1073	HIS
1	B	1103	HIS
1	B	1108	ASN
1	B	1150	GLN
1	B	1227	HIS
1	B	1264	ASN
1	B	1288	HIS
1	B	1580	ASN
1	B	1617	HIS
1	B	1649	ASN
1	B	1680	ASN
1	B	1811	ASN
1	B	1815	HIS
1	B	1883	GLN
1	B	1997	GLN
1	B	2058	GLN
1	B	2146	GLN
1	B	2266	ASN
1	B	2278	ASN
1	B	2310	ASN
1	B	2328	ASN
1	B	2394	ASN
1	C	38	ASN
1	C	51	HIS
1	C	73	ASN
1	C	209	HIS
1	C	216	ASN
1	C	294	GLN
1	C	315	ASN
1	C	371	HIS
1	C	451	ASN
1	C	468	GLN
1	C	528	ASN
1	C	816	GLN
1	C	920	ASN
1	C	934	ASN
1	C	973	ASN
1	C	1028	GLN
1	C	1073	HIS
1	C	1103	HIS
1	C	1108	ASN
1	C	1150	GLN

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Mol	Chain	Res	Type
1	C	1227	HIS
1	C	1264	ASN
1	C	1288	HIS
1	C	1580	ASN
1	C	1617	HIS
1	C	1649	ASN
1	C	1680	ASN
1	C	1811	ASN
1	C	1815	HIS
1	C	1883	GLN
1	C	1997	GLN
1	C	2038	GLN
1	C	2058	GLN
1	C	2146	GLN
1	C	2265	ASN
1	C	2266	ASN
1	C	2278	ASN
1	C	2284	GLN
1	C	2310	ASN
1	C	2328	ASN
1	C	2394	ASN
1	D	38	ASN
1	D	51	HIS
1	D	73	ASN
1	D	209	HIS
1	D	216	ASN
1	D	315	ASN
1	D	371	HIS
1	D	451	ASN
1	D	468	GLN
1	D	528	ASN
1	D	533	ASN
1	D	816	GLN
1	D	920	ASN
1	D	934	ASN
1	D	973	ASN
1	D	1028	GLN
1	D	1073	HIS
1	D	1108	ASN
1	D	1150	GLN
1	D	1222	ASN
1	D	1227	HIS

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Mol	Chain	Res	Type
1	D	1264	ASN
1	D	1288	HIS
1	D	1580	ASN
1	D	1615	ASN
1	D	1617	HIS
1	D	1649	ASN
1	D	1680	ASN
1	D	1811	ASN
1	D	1815	HIS
1	D	1883	GLN
1	D	1937	ASN
1	D	1997	GLN
1	D	2000	GLN
1	D	2038	GLN
1	D	2058	GLN
1	D	2146	GLN
1	D	2266	ASN
1	D	2278	ASN
1	D	2284	GLN
1	D	2310	ASN
1	D	2328	ASN
1	D	2394	ASN
1	E	38	ASN
1	E	51	HIS
1	E	73	ASN
1	E	177	GLN
1	E	209	HIS
1	E	216	ASN
1	E	294	GLN
1	E	315	ASN
1	E	371	HIS
1	E	451	ASN
1	E	468	GLN
1	E	528	ASN
1	E	816	GLN
1	E	920	ASN
1	E	934	ASN
1	E	973	ASN
1	E	1028	GLN
1	E	1073	HIS
1	E	1108	ASN
1	E	1150	GLN

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Mol	Chain	Res	Type
1	E	1227	HIS
1	E	1264	ASN
1	E	1288	HIS
1	E	1617	HIS
1	E	1649	ASN
1	E	1680	ASN
1	E	1811	ASN
1	E	1815	HIS
1	E	1883	GLN
1	E	1937	ASN
1	E	1997	GLN
1	E	2146	GLN
1	E	2198	GLN
1	E	2278	ASN
1	E	2310	ASN
1	E	2328	ASN
1	E	2394	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

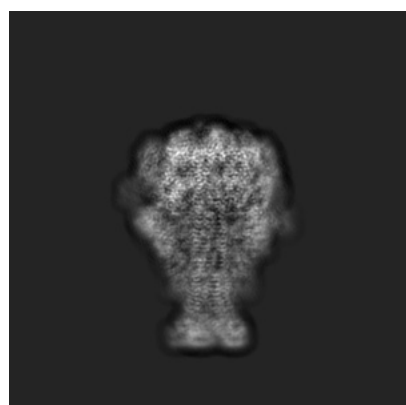
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-10796. These allow visual inspection of the internal detail of the map and identification of artifacts.

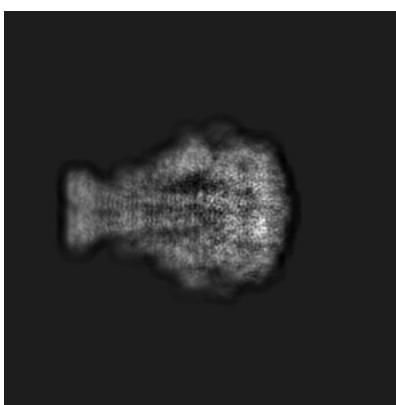
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

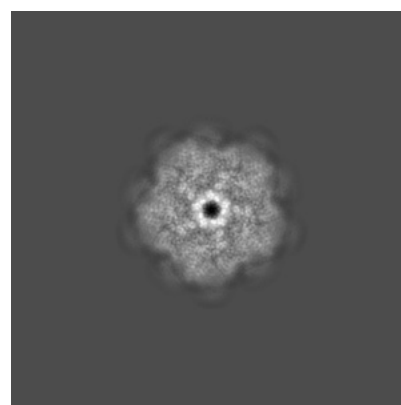
6.1.1 Primary map



X



Y

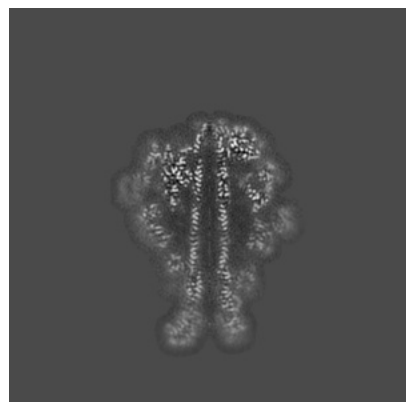


Z

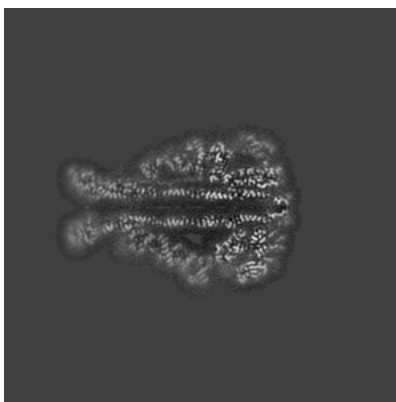
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

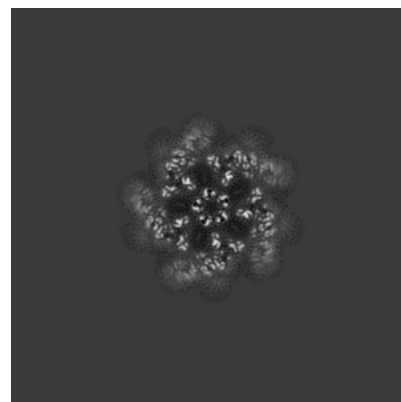
6.2.1 Primary map



X Index: 192



Y Index: 192

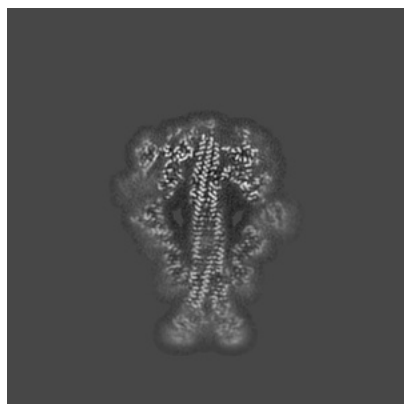


Z Index: 192

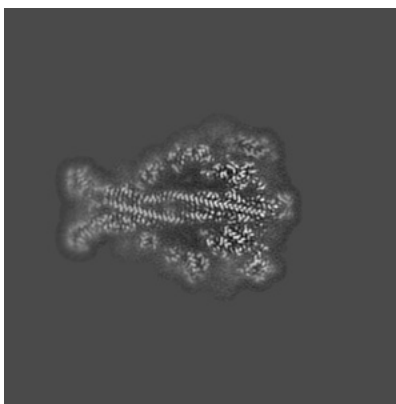
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

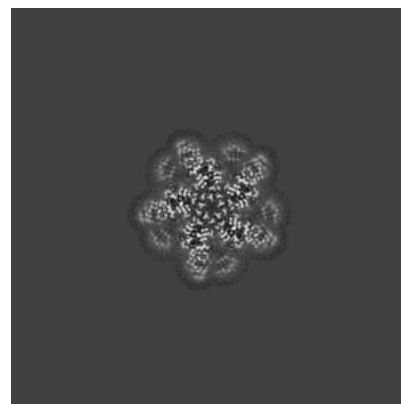
6.3.1 Primary map



X Index: 182



Y Index: 182

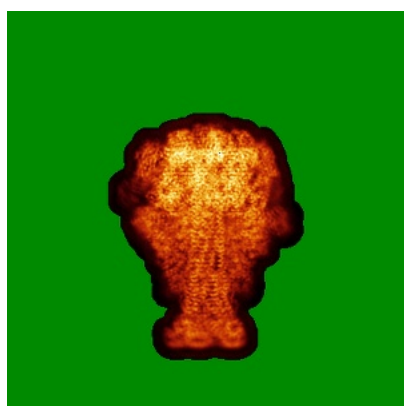


Z Index: 246

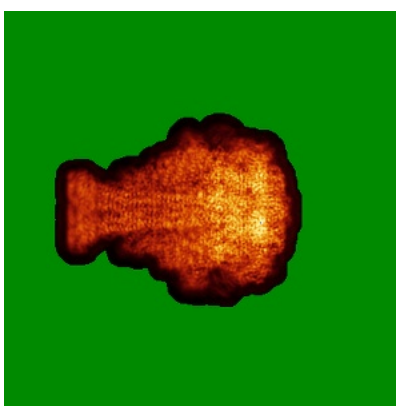
The images above show the largest variance slices of the map in three orthogonal directions.

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

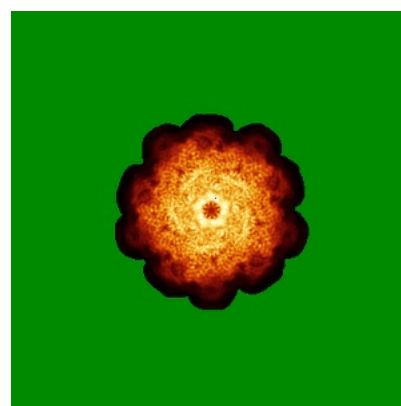
6.4.1 Primary map



X



Y

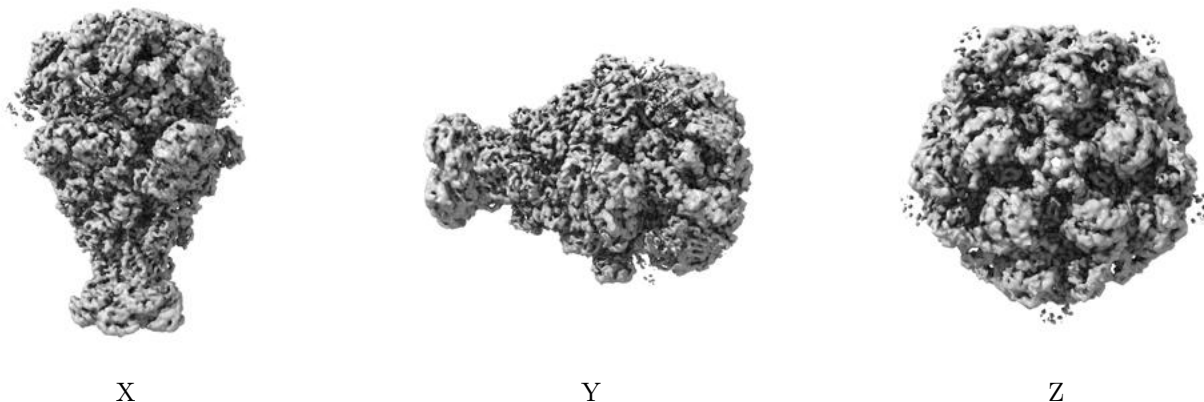


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.023. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

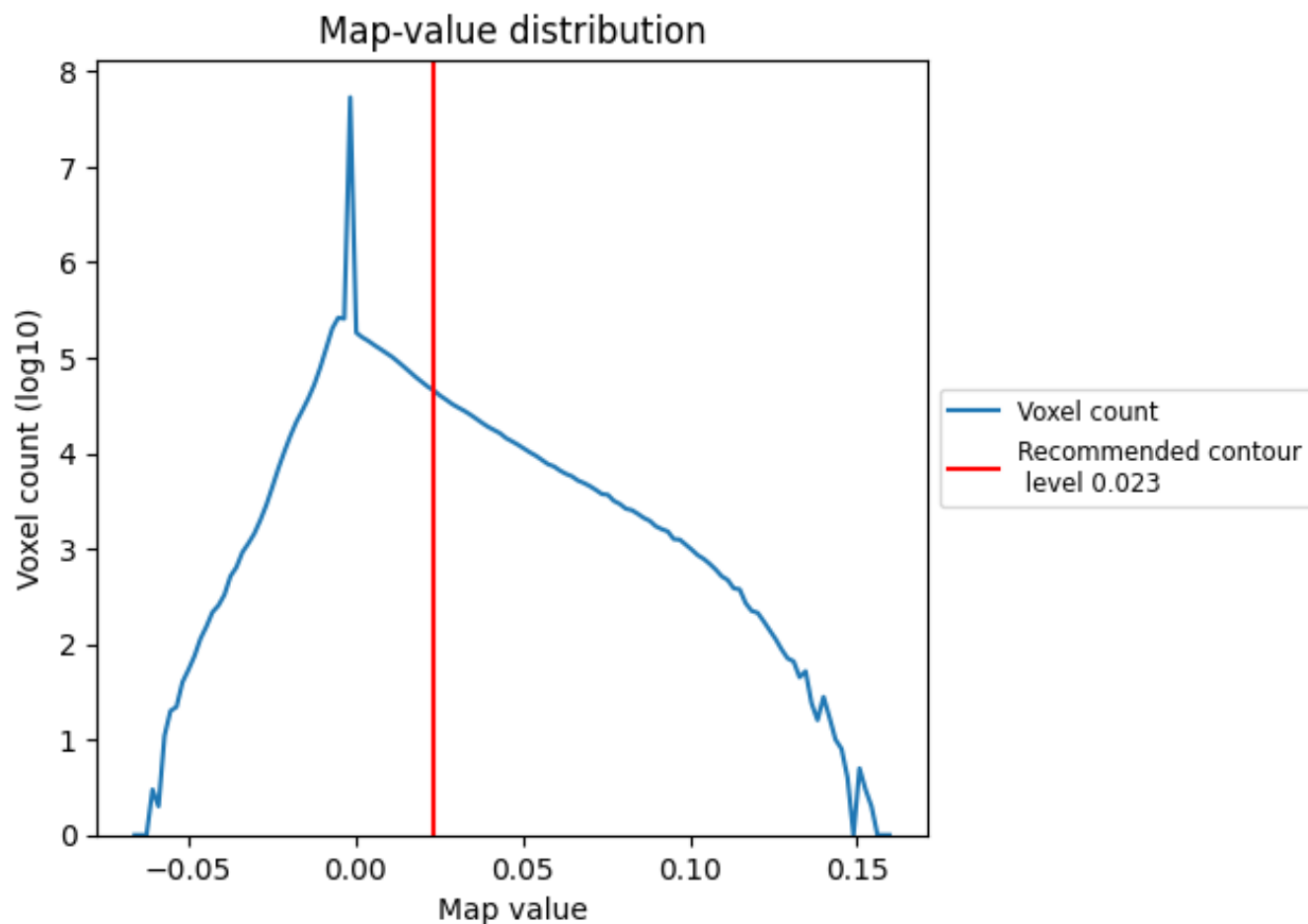
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

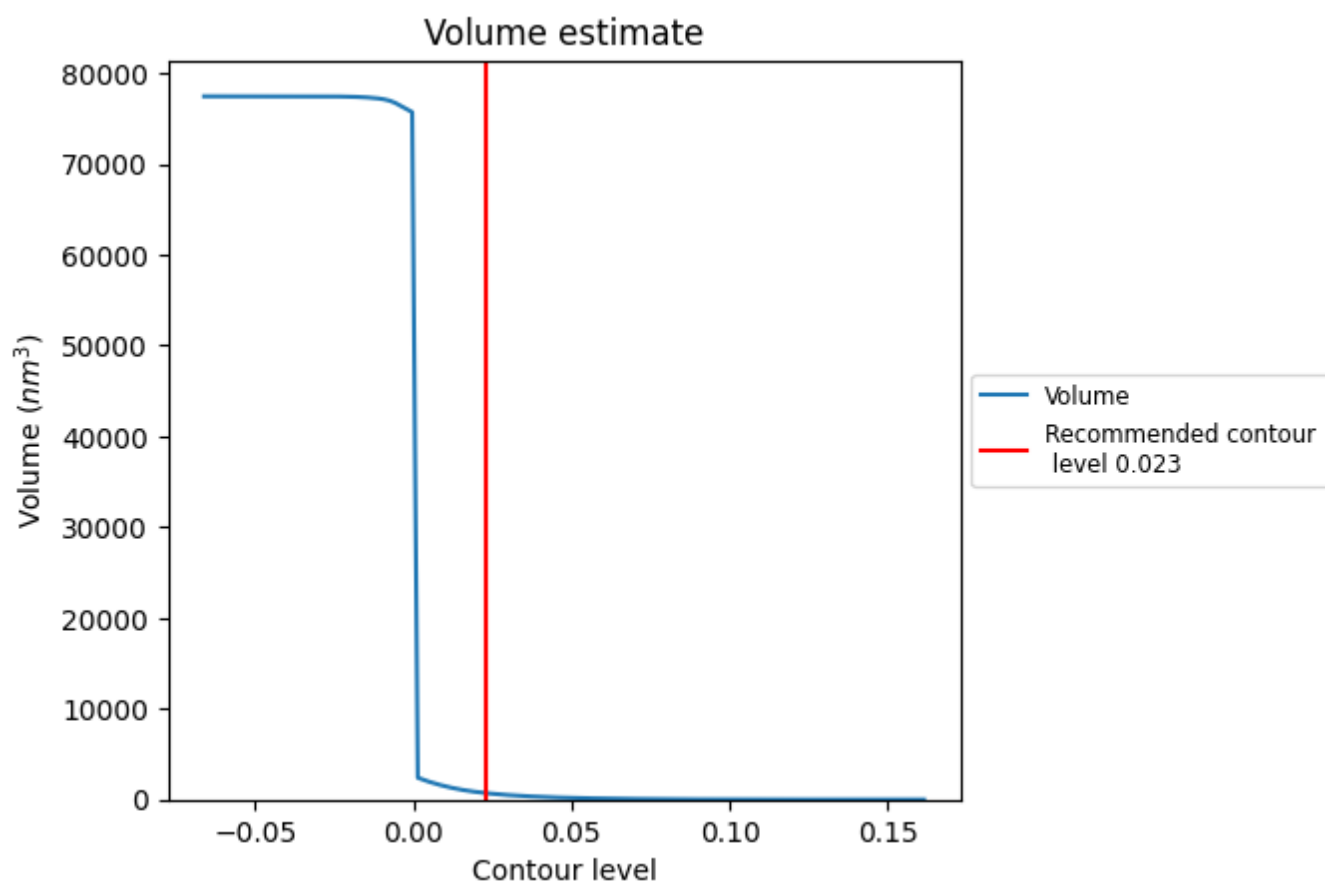
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

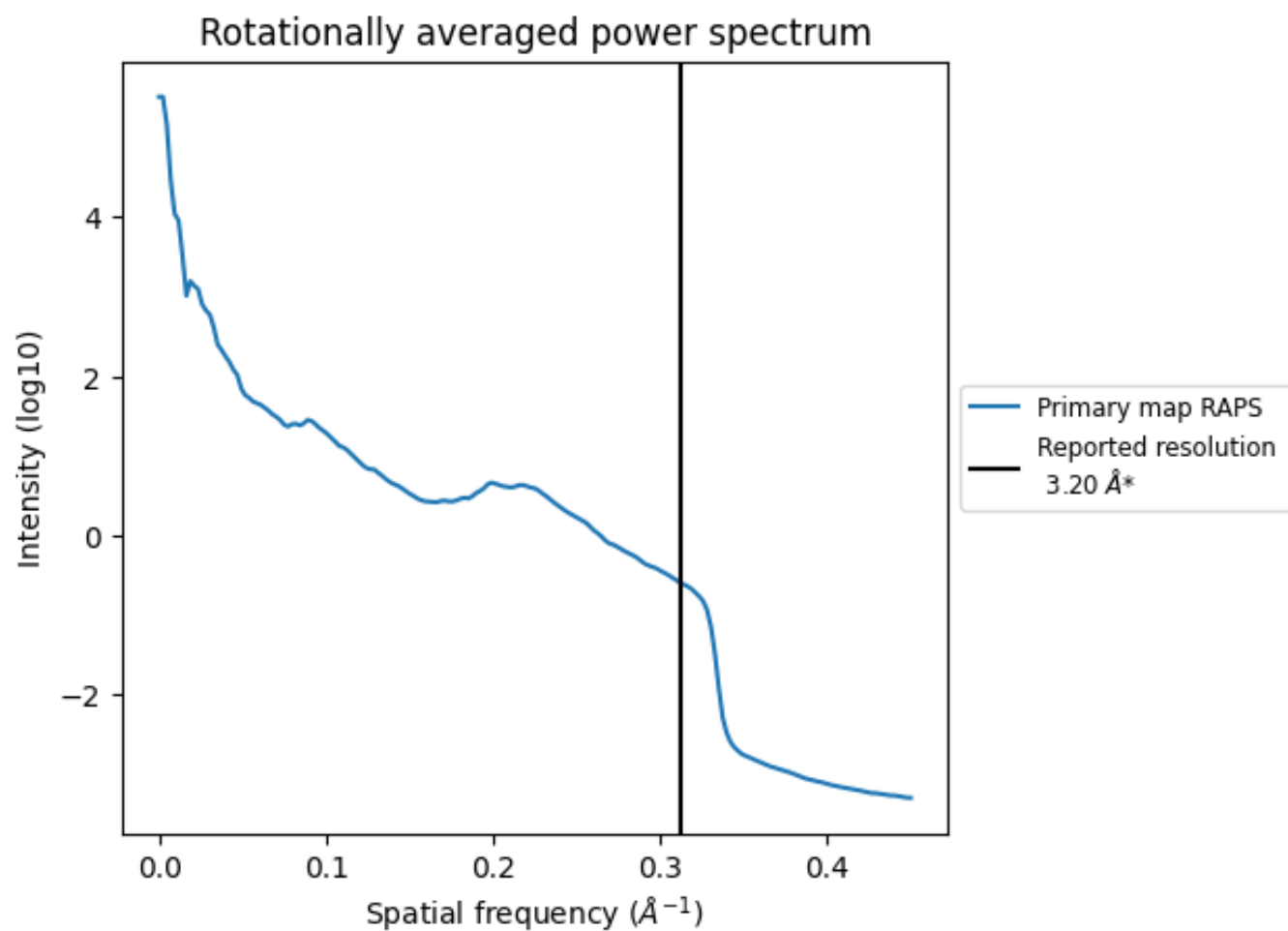
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 712 nm^3 ; this corresponds to an approximate mass of 643 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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.312 Å⁻¹

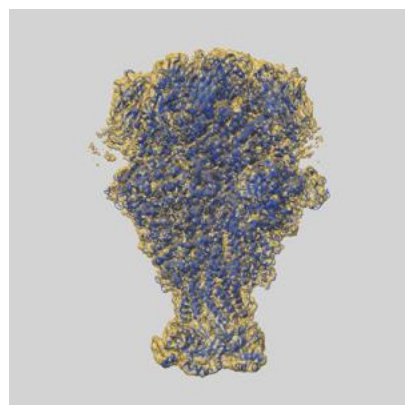
8 Fourier-Shell correlation

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

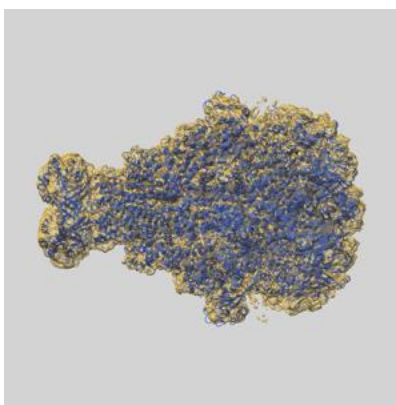
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-10796 and PDB model 6YEW. Per-residue inclusion information can be found in section [3](#) on page [5](#).

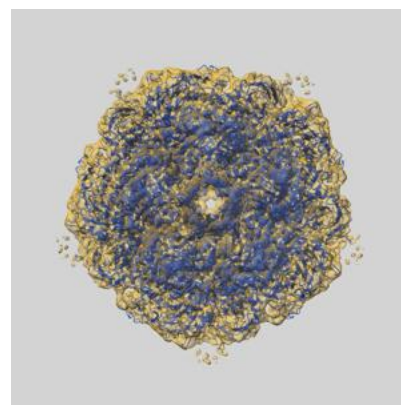
9.1 Map-model overlay [i](#)



X



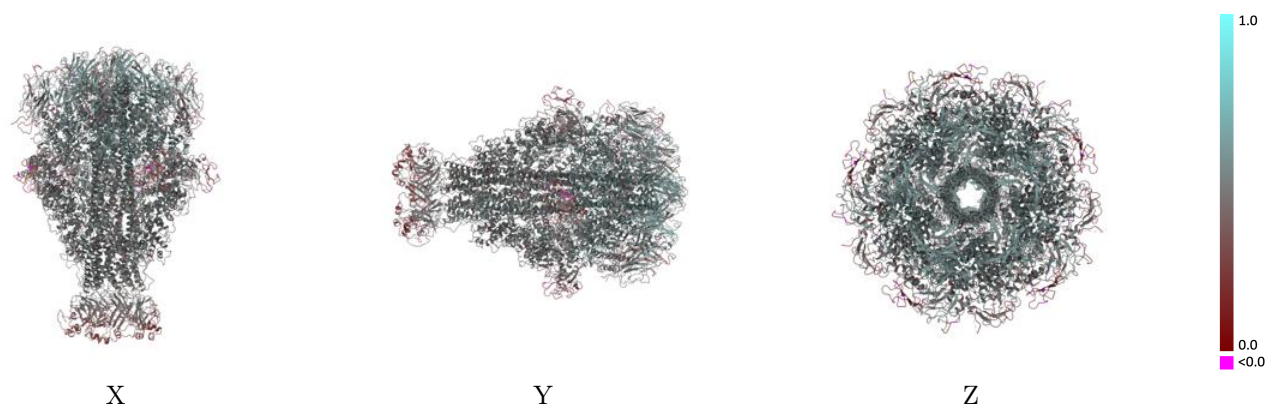
Y



Z

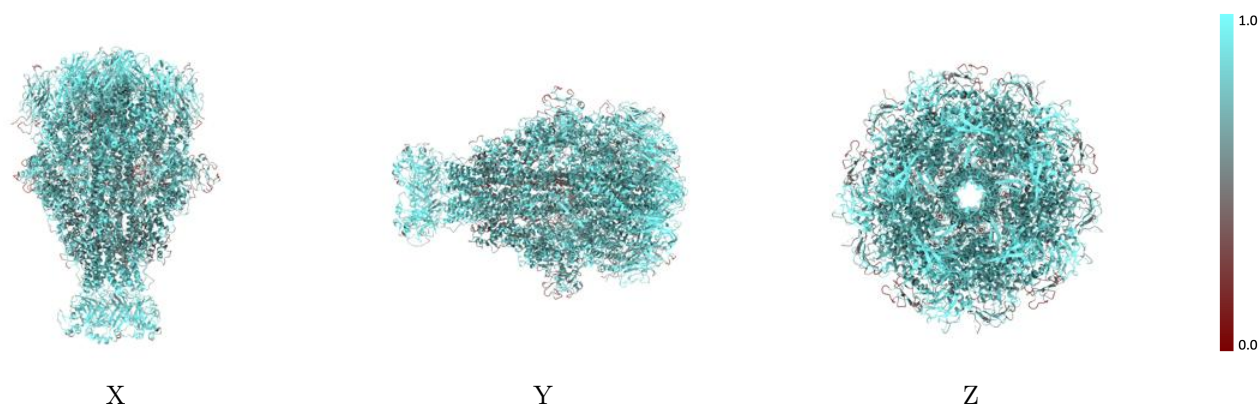
The images above show the 3D surface view of the map at the recommended contour level 0.023 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



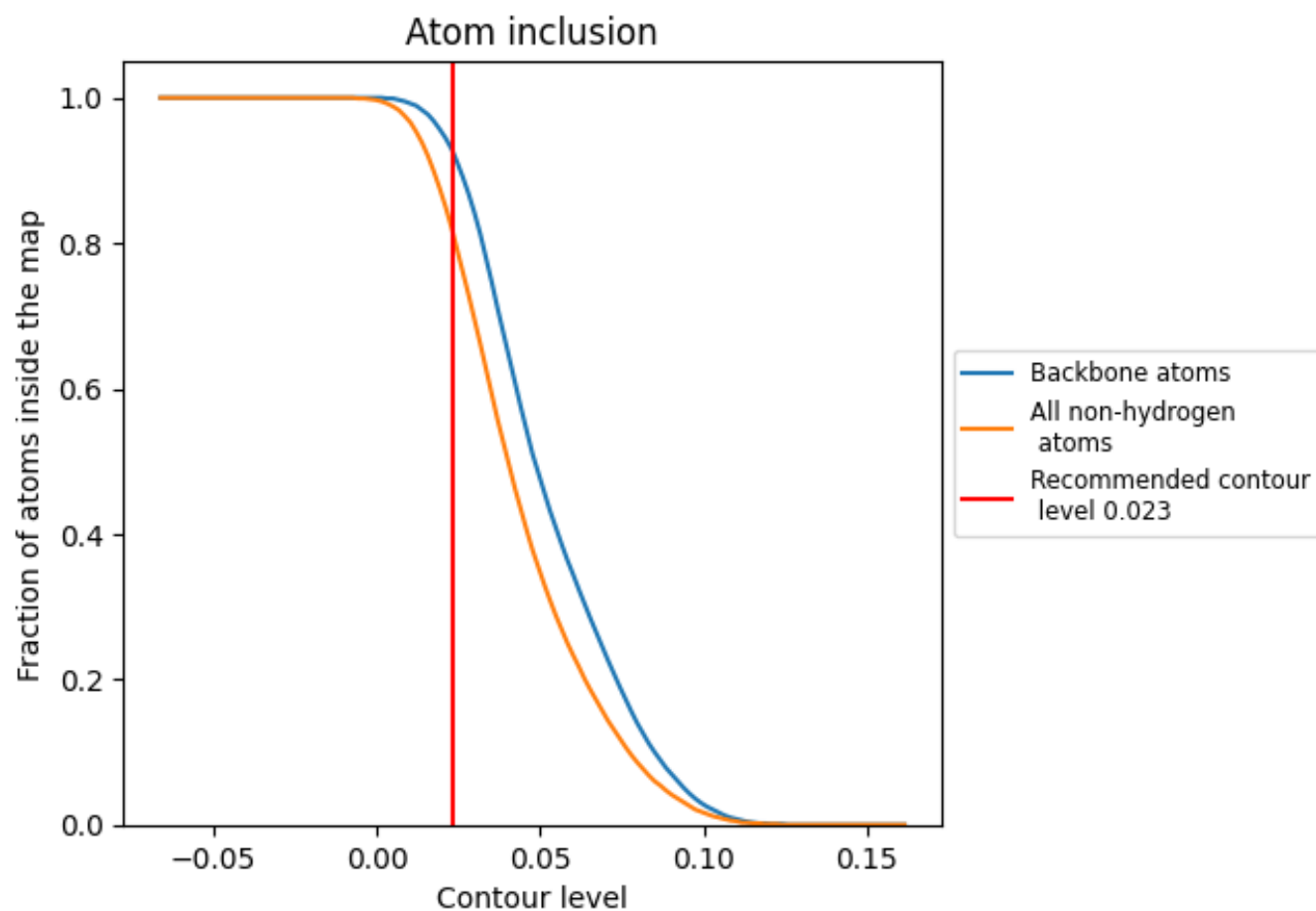
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.023).

9.4 Atom inclusion [i](#)



At the recommended contour level, 93% of all backbone atoms, 82% 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 (0.023) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8200	0.4780
A	0.8230	0.4800
B	0.8240	0.4810
C	0.8240	0.4810
D	0.8210	0.4790
E	0.8110	0.4710

