Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 11:16 AM UTC

PDB ID	:	3LUE / pdb_00003lue
EMDB ID	:	EMD-5170
Title	:	Model of alpha-actinin CH1 bound to F-actin
Authors	:	Galkin, V.E.; Orlova, A.; Salmazo, A.; Djinovic-Carugo, K.; Egelman, E.H.
Deposited on	:	2010-02-17
Resolution	:	15.00 Å(reported)

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

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

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

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

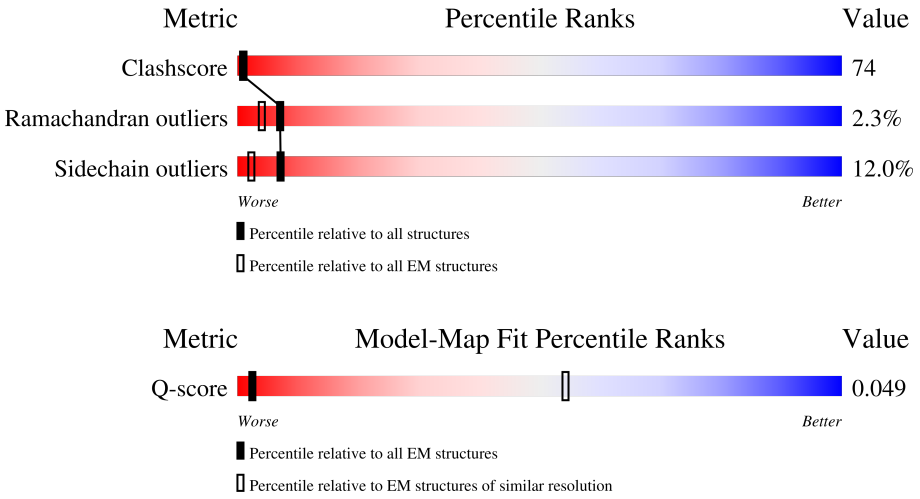
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & 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 15.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	37 (14.50 - 15.50)

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

Mol	Chain	Length	Quality of chain
1	A	374	31% 34% 44% 18% ·
1	B	374	· 34% 44% 18% ·
1	C	374	7% 31% 46% 19% ·
1	D	374	5% 32% 45% 19% ·

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Mol	Chain	Length	Quality of chain
1	E	374	8% 31% 47% 19%
1	F	374	5% 32% 46% 19%
1	G	374	7% 32% 46% 19%
1	H	374	5% 31% 46% 19%
1	I	374	23% 34% 45% 17%
1	J	374	84% 34% 45% 17%
2	K	109	28% 94% 6%
2	L	109	29% 94% 6%
2	M	109	9% 94% 6%
2	N	109	28% 94% 6%
2	O	109	11% 94% 6%
2	P	109	25% 94% 6%
2	Q	109	17% 94% 6%
2	R	109	95% 94% 6%
2	S	109	20% 94% 6%
2	T	109	100% 94% 6%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 37910 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 Actin, cytoplasmic 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		
1	B	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		
1	C	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		
1	D	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		
1	E	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		
1	F	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		
1	G	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		
1	H	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		
1	I	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		
1	J	374	Total	C	N	O	S	0	0
			2917	1845	490	560	22		

- Molecule 2 is a protein called Alpha-actinin-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	K	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	M	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	L	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	O	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	N	109	Total	C	N	O	S	0	0
			874	561	157	151	5		

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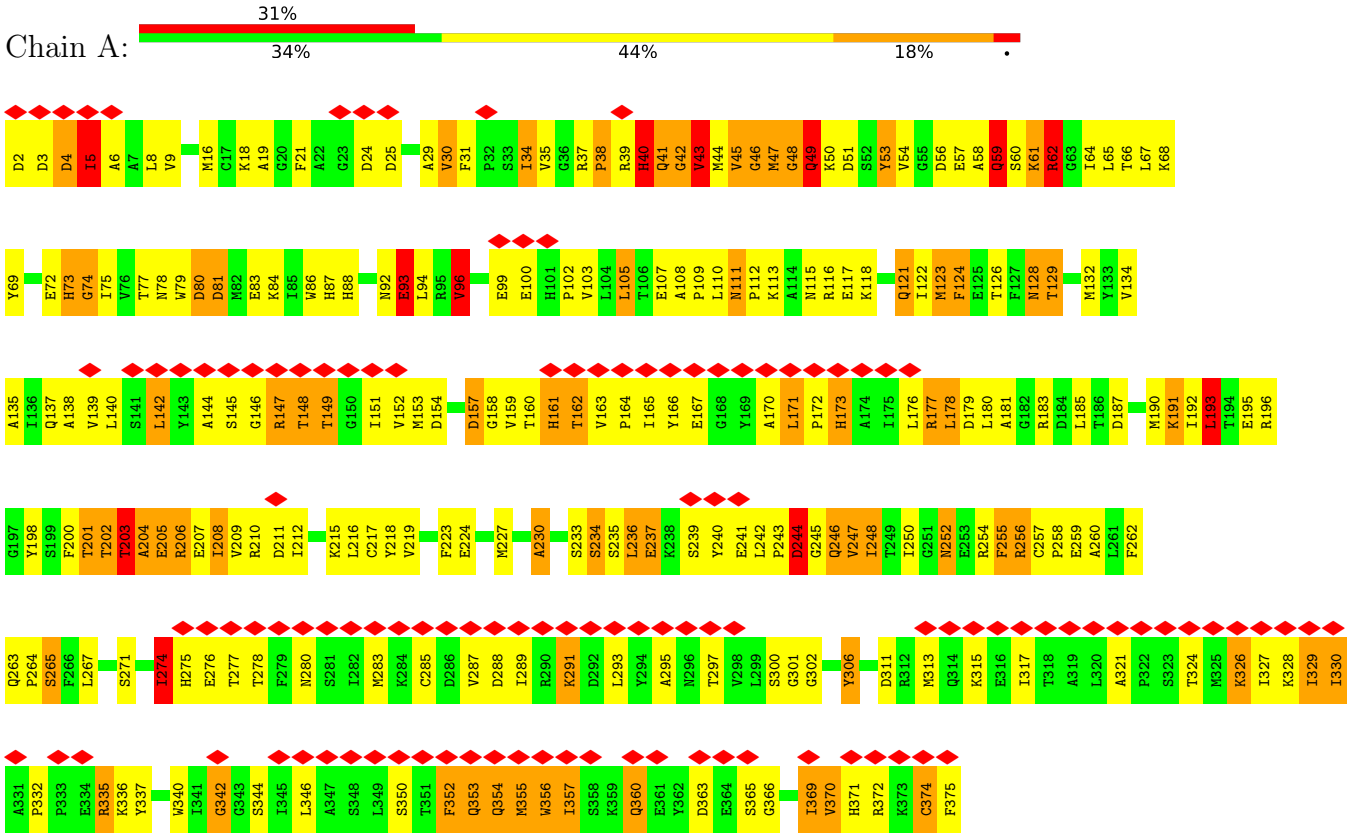
Mol	Chain	Residues	Atoms					AltConf	Trace
2	Q	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	P	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	S	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	R	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	T	109	Total	C	N	O	S	0	0
			874	561	157	151	5		

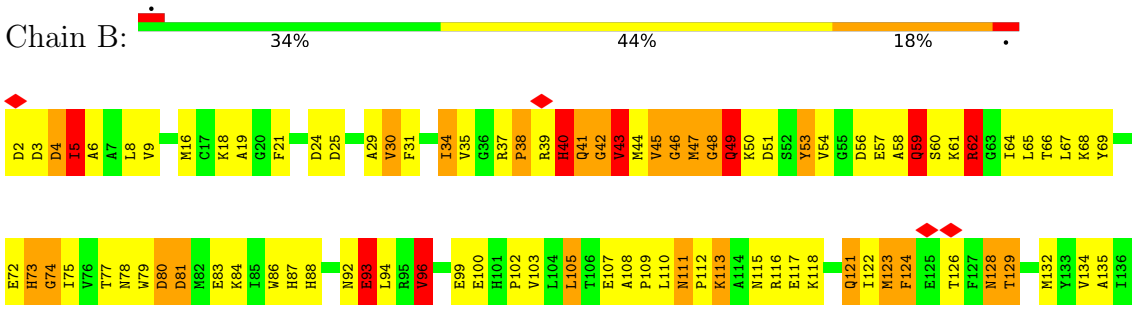
3 Residue-property plots (i)

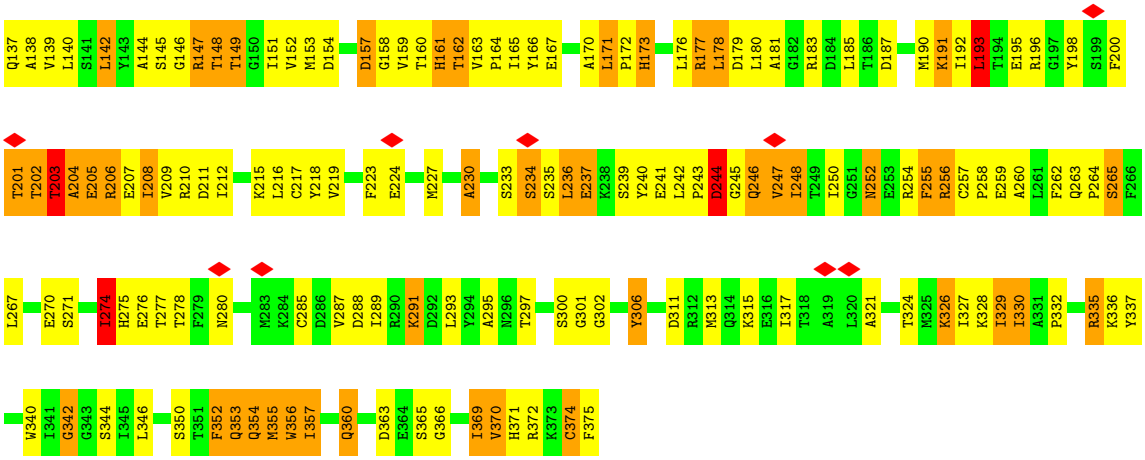
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Actin, cytoplasmic 1

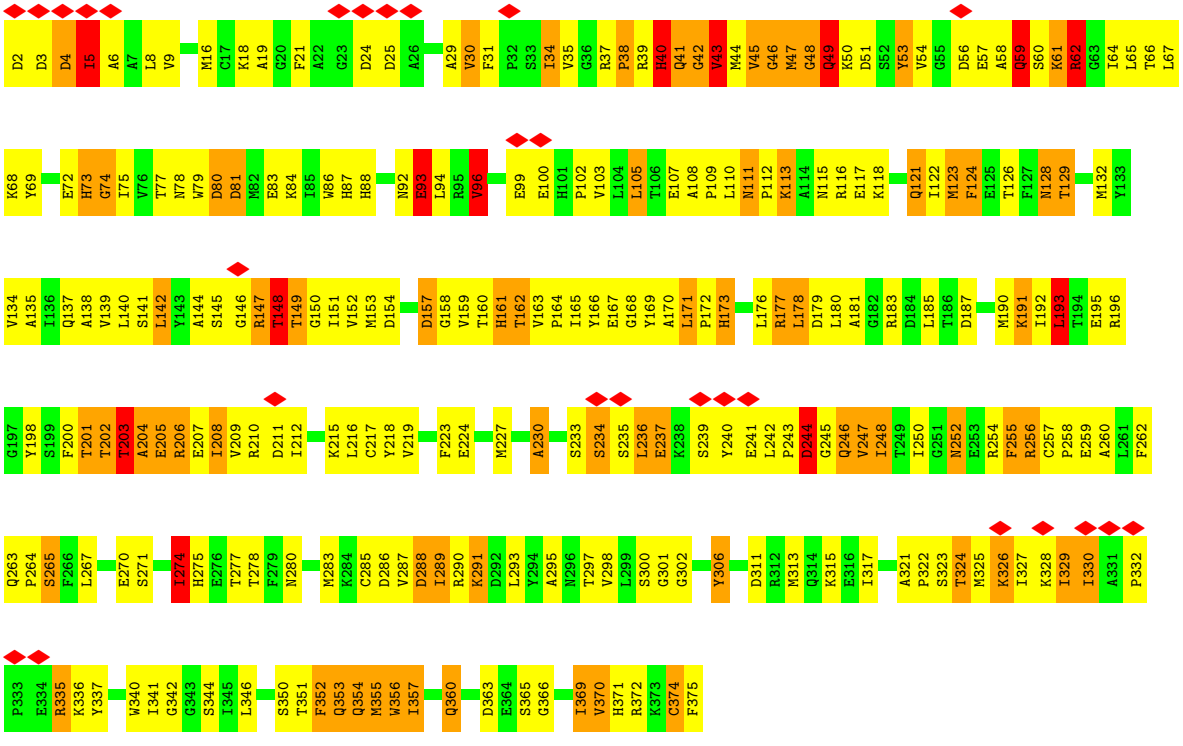


• Molecule 1: Actin, cytoplasmic 1

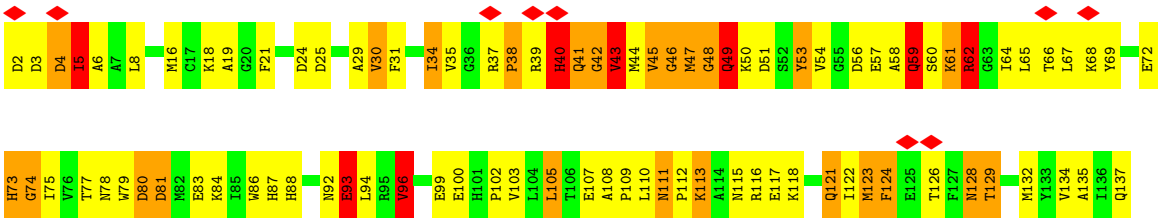


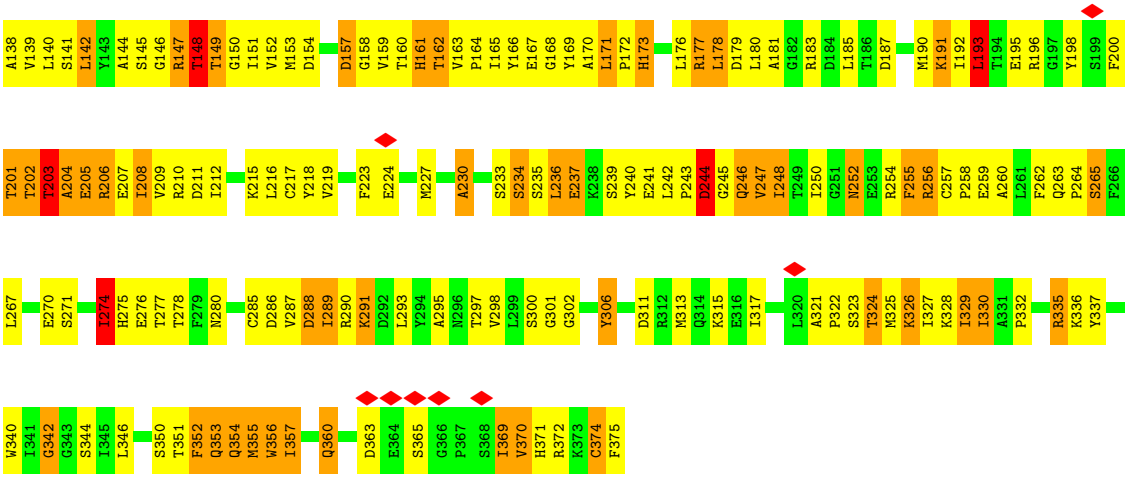


• Molecule 1: Actin, cytoplasmic 1

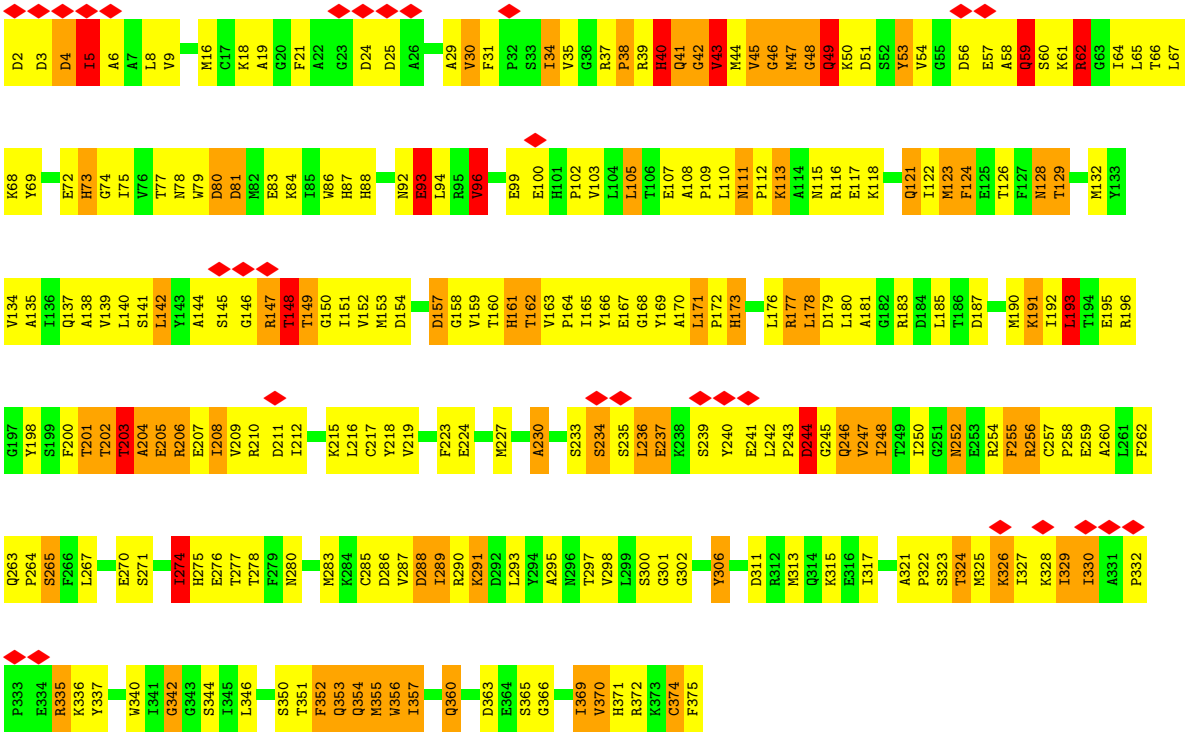


• Molecule 1: Actin, cytoplasmic 1

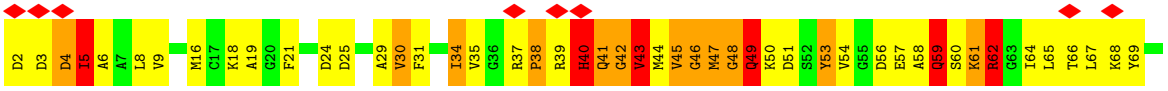


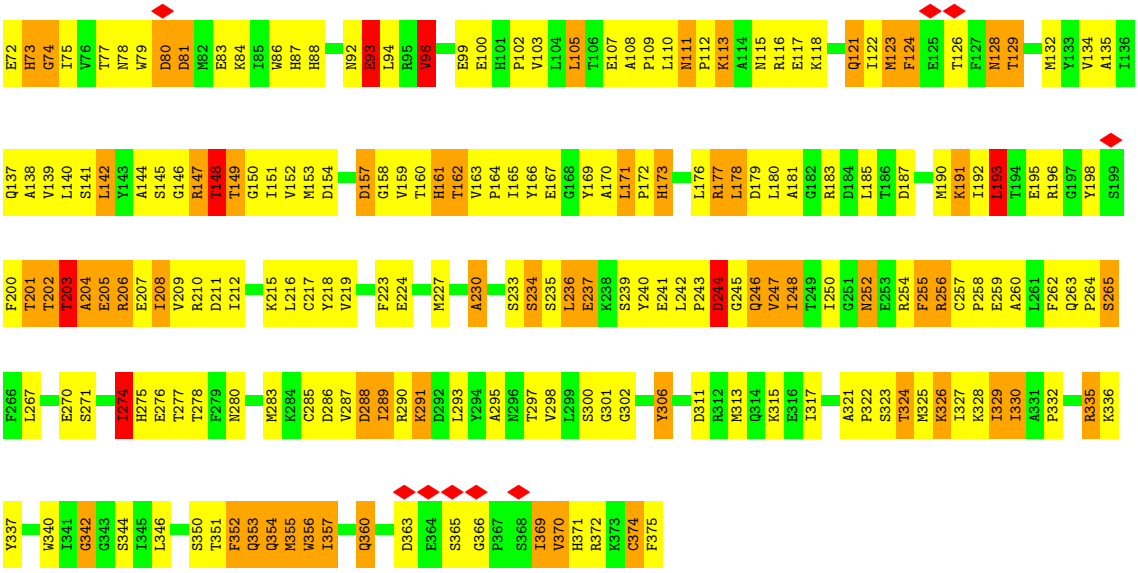


• Molecule 1: Actin, cytoplasmic 1



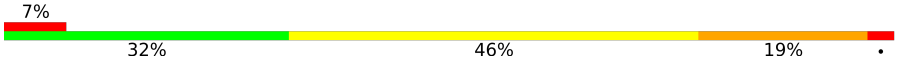
• Molecule 1: Actin, cytoplasmic 1

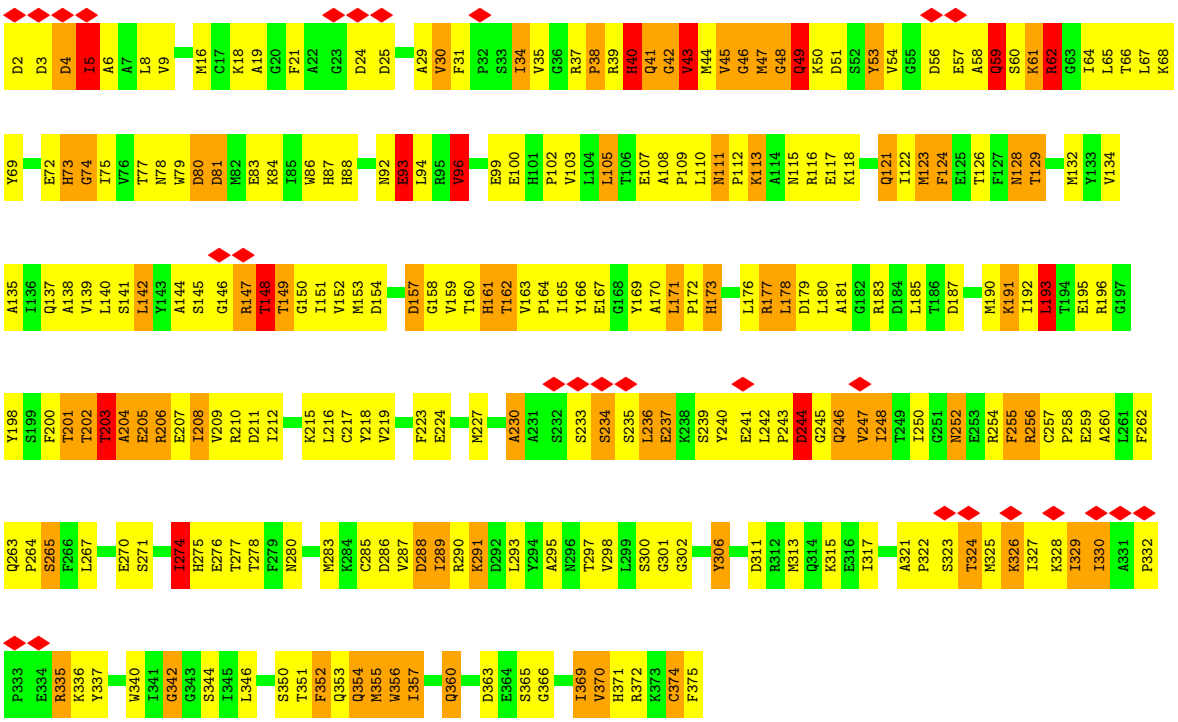




• Molecule 1: Actin, cytoplasmic 1

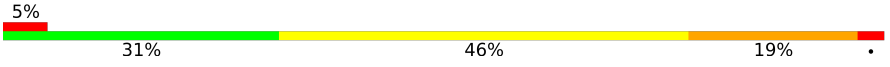
Chain G:

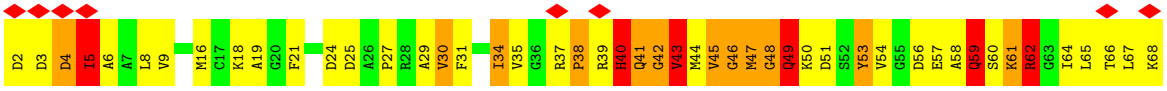


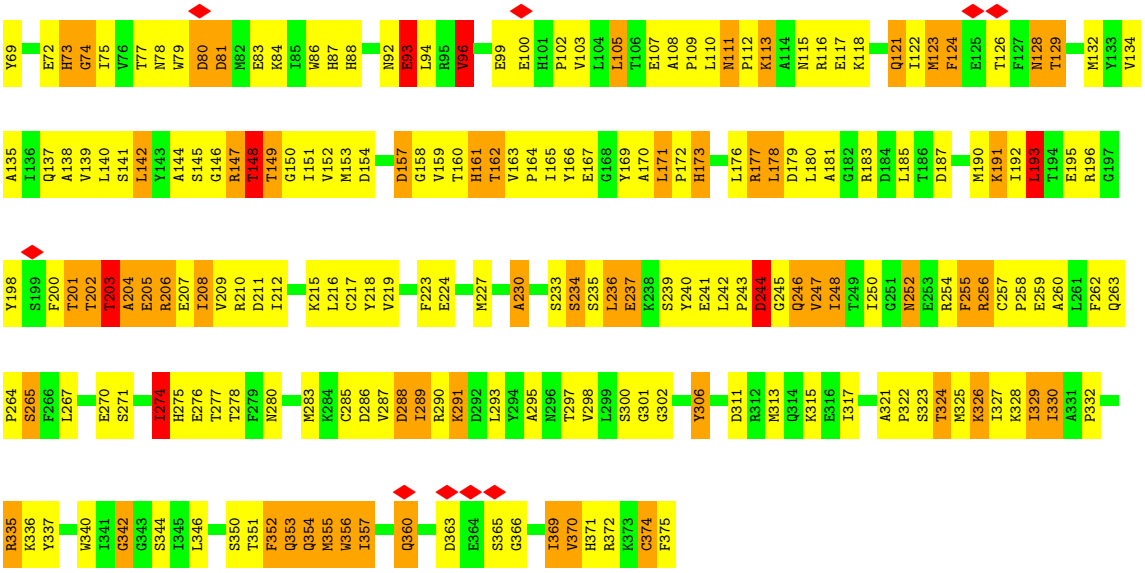


• Molecule 1: Actin, cytoplasmic 1

Chain H:

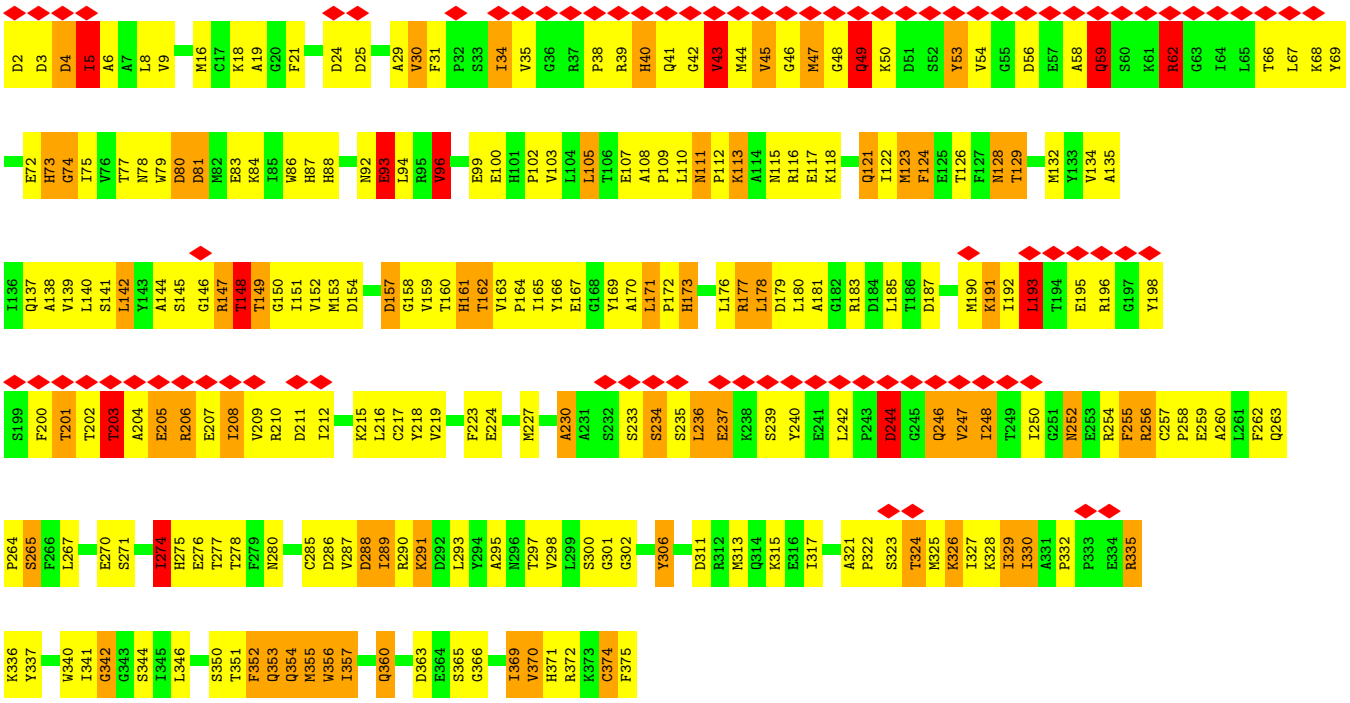






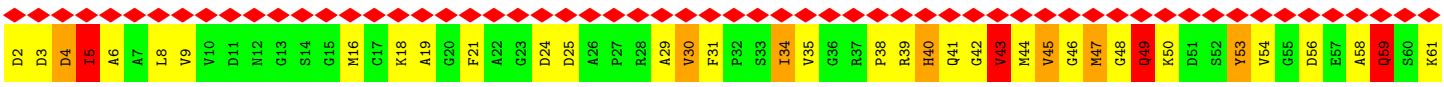
• Molecule 1: Actin, cytoplasmic 1

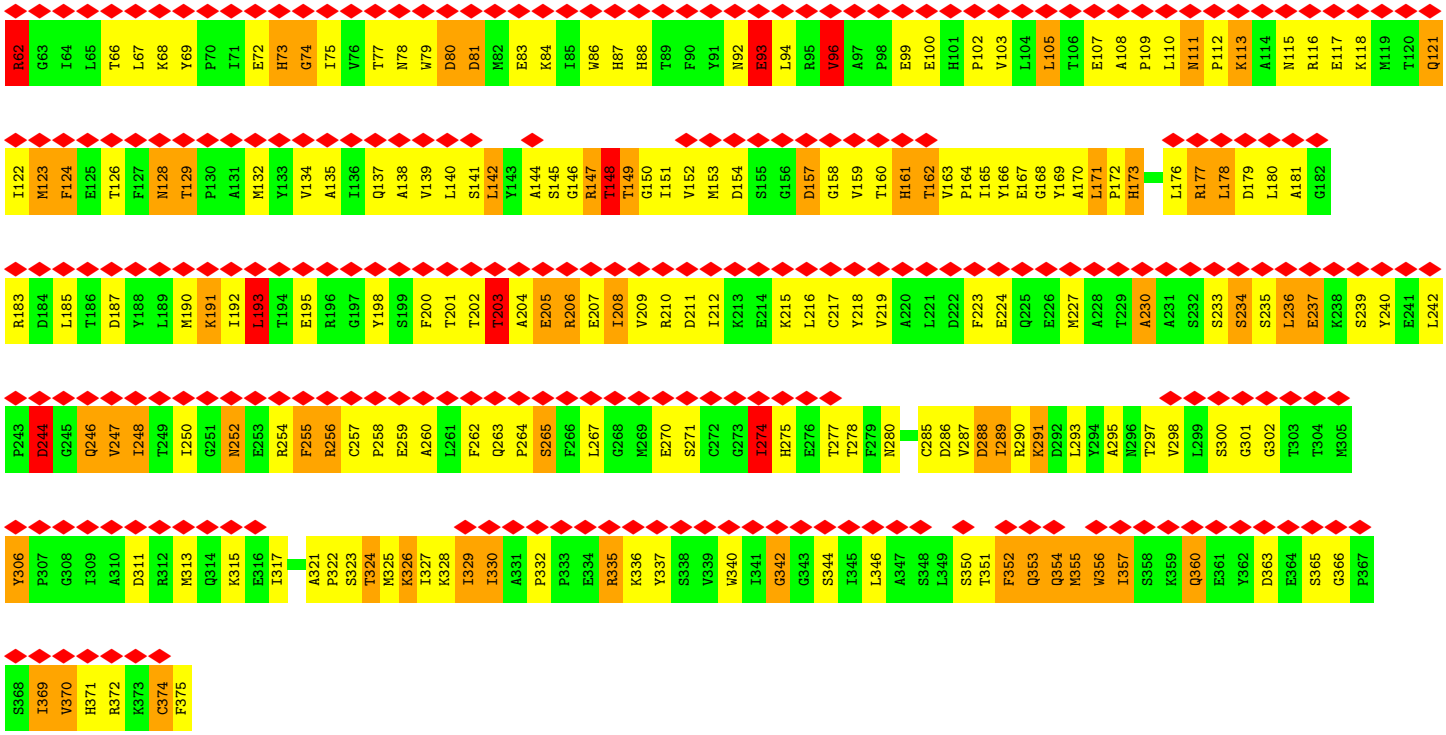
Chain I:



• Molecule 1: Actin, cytoplasmic 1

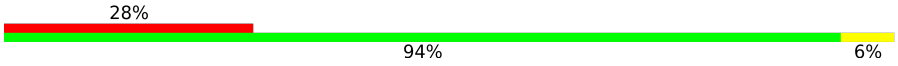
Chain J:

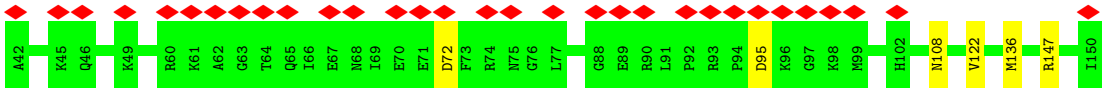




• Molecule 2: Alpha-actinin-3

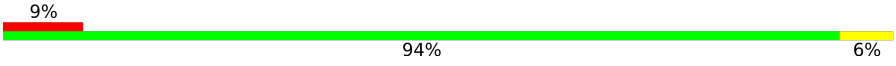
Chain K:

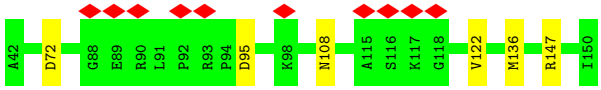




• Molecule 2: Alpha-actinin-3

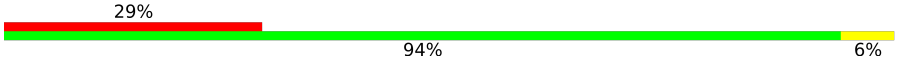
Chain M:

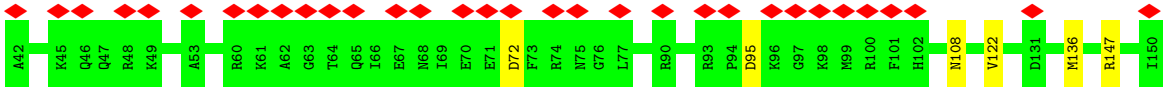




• Molecule 2: Alpha-actinin-3

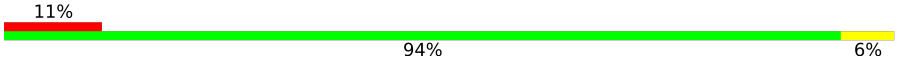
Chain L:

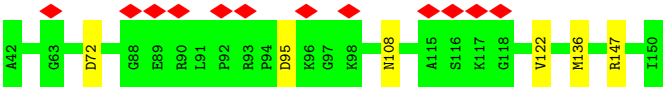




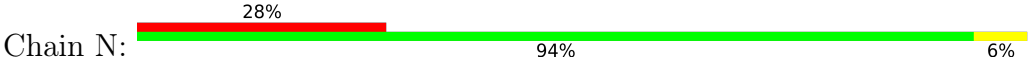
• Molecule 2: Alpha-actinin-3

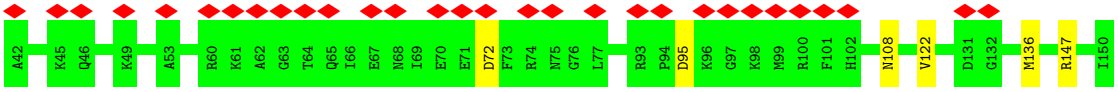
Chain O:



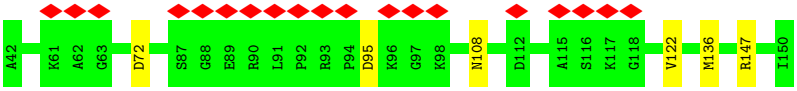


• Molecule 2: Alpha-actinin-3

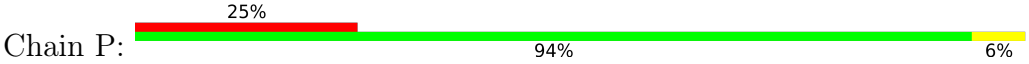


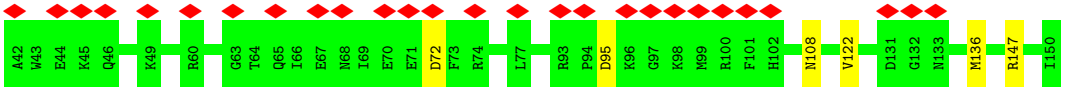


• Molecule 2: Alpha-actinin-3

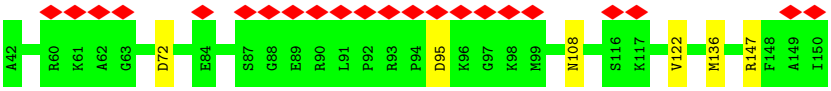


• Molecule 2: Alpha-actinin-3

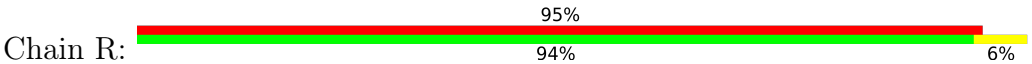


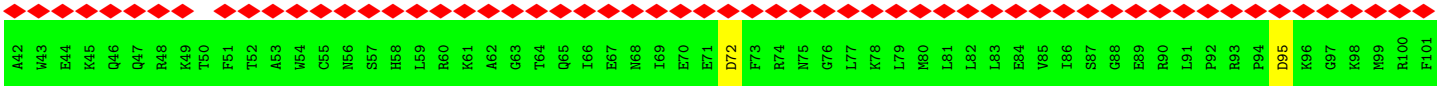


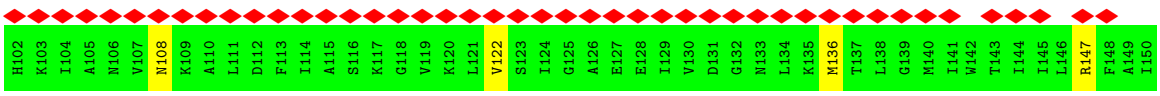
• Molecule 2: Alpha-actinin-3



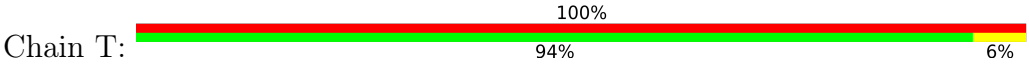
• Molecule 2: Alpha-actinin-3

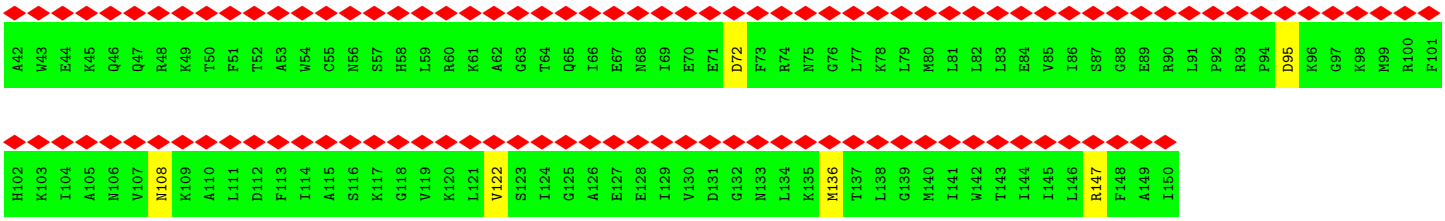






• Molecule 2: Alpha-actinin-3

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H102 K103 I104 A105 N106 V107 N108 K109 A110 L111 D112 F113 I114 A115 S116 K117 G118 V119 K120 L121 V122 S123 I124 G125 A126 E127 E128 I129 V130 D131 G132 N133 L134 K135 M136 T137 L138 G139 M140 I141 W142 T143 I144 I145 L146 R147 F148 A149 I150

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=166.8°, rise=27.7 Å, axial sym=C1	Depositor
Number of segments used	Not provided	
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Weiner filter	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	Not provided	
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	50000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	2.180	Depositor
Minimum map value	-0.684	Depositor
Average map value	0.077	Depositor
Map value standard deviation	0.294	Depositor
Recommended contour level	0.61	Depositor
Map size (Å)	238, 238, 238	wwPDB
Map dimensions	100, 100, 100	wwPDB
Map angles (°)	90, 90, 90	wwPDB
Pixel spacing (Å)	2.38, 2.38, 2.38	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	1.29	15/2974 (0.5%)	2.35	173/4016 (4.3%)
1	B	1.29	15/2974 (0.5%)	2.35	174/4016 (4.3%)
1	C	1.29	14/2974 (0.5%)	2.35	171/4016 (4.3%)
1	D	1.29	15/2974 (0.5%)	2.35	171/4016 (4.3%)
1	E	1.29	15/2974 (0.5%)	2.30	170/4016 (4.2%)
1	F	1.29	15/2974 (0.5%)	2.35	173/4016 (4.3%)
1	G	1.29	15/2974 (0.5%)	2.35	173/4016 (4.3%)
1	H	1.29	15/2974 (0.5%)	2.35	174/4016 (4.3%)
1	I	1.29	15/2974 (0.5%)	2.35	173/4016 (4.3%)
1	J	1.29	14/2974 (0.5%)	2.35	173/4016 (4.3%)
2	K	0.47	0/888	0.89	4/1190 (0.3%)
2	L	0.47	0/888	0.89	4/1190 (0.3%)
2	M	0.47	0/888	0.90	4/1190 (0.3%)
2	N	0.47	0/888	0.89	4/1190 (0.3%)
2	O	0.47	0/888	0.89	4/1190 (0.3%)
2	P	0.47	0/888	0.89	4/1190 (0.3%)
2	Q	0.47	0/888	0.89	4/1190 (0.3%)
2	R	0.47	0/888	0.89	4/1190 (0.3%)
2	S	0.47	0/888	0.89	4/1190 (0.3%)
2	T	0.47	0/888	0.89	4/1190 (0.3%)
All	All	1.16	148/38620 (0.4%)	2.10	1765/52060 (3.4%)

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	1	1
1	B	1	1
1	C	1	1
1	D	1	1
1	E	1	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	F	1	1
1	G	1	1
1	H	1	1
1	I	1	1
1	J	1	1
All	All	10	10

All (148) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	192	ILE	CA-CB	7.05	1.64	1.54
1	E	192	ILE	CA-CB	7.03	1.64	1.54
1	J	192	ILE	CA-CB	7.03	1.64	1.54
1	H	192	ILE	CA-CB	7.02	1.64	1.54
1	I	192	ILE	CA-CB	7.02	1.64	1.54
1	A	192	ILE	CA-CB	7.02	1.64	1.54
1	B	192	ILE	CA-CB	7.01	1.64	1.54
1	D	192	ILE	CA-CB	7.01	1.64	1.54
1	F	192	ILE	CA-CB	7.01	1.64	1.54
1	C	192	ILE	CA-CB	7.01	1.64	1.54
1	A	88	HIS	CD2-NE2	-6.97	1.30	1.37
1	I	88	HIS	CD2-NE2	-6.96	1.30	1.37
1	C	88	HIS	CD2-NE2	-6.95	1.30	1.37
1	H	88	HIS	CD2-NE2	-6.95	1.30	1.37
1	F	88	HIS	CD2-NE2	-6.94	1.30	1.37
1	G	88	HIS	CD2-NE2	-6.94	1.30	1.37
1	J	88	HIS	CD2-NE2	-6.93	1.30	1.37
1	E	88	HIS	CD2-NE2	-6.93	1.30	1.37
1	B	88	HIS	CD2-NE2	-6.92	1.30	1.37
1	D	88	HIS	CD2-NE2	-6.90	1.30	1.37
1	I	40	HIS	CD2-NE2	-6.72	1.30	1.37
1	G	40	HIS	CD2-NE2	-6.70	1.30	1.37
1	H	40	HIS	CD2-NE2	-6.70	1.30	1.37
1	F	40	HIS	CD2-NE2	-6.69	1.30	1.37
1	A	40	HIS	CD2-NE2	-6.65	1.30	1.37
1	E	40	HIS	CD2-NE2	-6.64	1.30	1.37
1	J	40	HIS	CD2-NE2	-6.64	1.30	1.37
1	I	87	HIS	CD2-NE2	-6.60	1.30	1.37
1	B	40	HIS	CD2-NE2	-6.60	1.30	1.37
1	D	87	HIS	CD2-NE2	-6.59	1.30	1.37
1	G	87	HIS	CD2-NE2	-6.59	1.30	1.37
1	C	87	HIS	CD2-NE2	-6.58	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	40	HIS	CD2-NE2	-6.57	1.30	1.37
1	E	87	HIS	CD2-NE2	-6.57	1.30	1.37
1	C	40	HIS	CD2-NE2	-6.56	1.30	1.37
1	F	87	HIS	CD2-NE2	-6.56	1.30	1.37
1	A	87	HIS	CD2-NE2	-6.54	1.30	1.37
1	B	87	HIS	CD2-NE2	-6.54	1.30	1.37
1	J	87	HIS	CD2-NE2	-6.54	1.30	1.37
1	H	87	HIS	CD2-NE2	-6.51	1.30	1.37
1	I	371	HIS	CD2-NE2	-6.21	1.31	1.37
1	C	371	HIS	CD2-NE2	-6.21	1.31	1.37
1	A	371	HIS	CD2-NE2	-6.21	1.31	1.37
1	D	371	HIS	CD2-NE2	-6.21	1.31	1.37
1	E	371	HIS	CD2-NE2	-6.20	1.31	1.37
1	F	371	HIS	CD2-NE2	-6.20	1.31	1.37
1	B	371	HIS	CD2-NE2	-6.20	1.31	1.37
1	G	371	HIS	CD2-NE2	-6.20	1.31	1.37
1	J	371	HIS	CD2-NE2	-6.20	1.31	1.37
1	H	371	HIS	CD2-NE2	-6.19	1.31	1.37
1	D	161	HIS	CD2-NE2	-6.07	1.31	1.37
1	J	161	HIS	CD2-NE2	-6.04	1.31	1.37
1	B	161	HIS	CD2-NE2	-6.04	1.31	1.37
1	F	161	HIS	CD2-NE2	-6.03	1.31	1.37
1	E	161	HIS	CD2-NE2	-6.03	1.31	1.37
1	H	161	HIS	CD2-NE2	-6.01	1.31	1.37
1	I	161	HIS	CD2-NE2	-6.01	1.31	1.37
1	C	161	HIS	CD2-NE2	-6.00	1.31	1.37
1	G	161	HIS	CD2-NE2	-6.00	1.31	1.37
1	A	161	HIS	CD2-NE2	-5.99	1.31	1.37
1	C	201	THR	CA-CB	5.85	1.63	1.53
1	D	201	THR	CA-CB	5.85	1.63	1.53
1	G	201	THR	CA-CB	5.83	1.63	1.53
1	I	201	THR	CA-CB	5.83	1.63	1.53
1	A	201	THR	CA-CB	5.83	1.63	1.53
1	E	201	THR	CA-CB	5.82	1.63	1.53
1	H	201	THR	CA-CB	5.82	1.63	1.53
1	F	201	THR	CA-CB	5.82	1.63	1.53
1	B	201	THR	CA-CB	5.81	1.63	1.53
1	J	201	THR	CA-CB	5.81	1.63	1.53
1	J	275	HIS	CD2-NE2	-5.80	1.31	1.37
1	I	275	HIS	CD2-NE2	-5.79	1.31	1.37
1	B	275	HIS	CD2-NE2	-5.76	1.31	1.37
1	G	275	HIS	CD2-NE2	-5.75	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	275	HIS	CD2-NE2	-5.75	1.31	1.37
1	A	275	HIS	CD2-NE2	-5.74	1.31	1.37
1	F	275	HIS	CD2-NE2	-5.73	1.31	1.37
1	D	275	HIS	CD2-NE2	-5.72	1.31	1.37
1	H	275	HIS	CD2-NE2	-5.72	1.31	1.37
1	C	275	HIS	CD2-NE2	-5.70	1.31	1.37
1	C	122	ILE	CA-CB	5.68	1.60	1.54
1	I	122	ILE	CA-CB	5.66	1.60	1.54
1	F	203	THR	CA-CB	5.66	1.63	1.53
1	F	122	ILE	CA-CB	5.65	1.60	1.54
1	G	122	ILE	CA-CB	5.65	1.60	1.54
1	G	203	THR	CA-CB	5.64	1.63	1.53
1	A	203	THR	CA-CB	5.63	1.62	1.53
1	E	122	ILE	CA-CB	5.63	1.60	1.54
1	C	203	THR	CA-CB	5.62	1.62	1.53
1	A	122	ILE	CA-CB	5.62	1.60	1.54
1	H	203	THR	CA-CB	5.62	1.62	1.53
1	J	203	THR	CA-CB	5.62	1.62	1.53
1	D	203	THR	CA-CB	5.62	1.62	1.53
1	E	203	THR	CA-CB	5.62	1.62	1.53
1	D	122	ILE	CA-CB	5.61	1.60	1.54
1	H	122	ILE	CA-CB	5.61	1.60	1.54
1	B	122	ILE	CA-CB	5.59	1.60	1.54
1	B	203	THR	CA-CB	5.58	1.62	1.53
1	I	203	THR	CA-CB	5.58	1.62	1.53
1	C	173	HIS	CD2-NE2	-5.57	1.31	1.37
1	D	173	HIS	CD2-NE2	-5.57	1.31	1.37
1	J	122	ILE	CA-CB	5.56	1.60	1.54
1	G	173	HIS	CD2-NE2	-5.53	1.31	1.37
1	E	173	HIS	CD2-NE2	-5.49	1.31	1.37
1	I	173	HIS	CD2-NE2	-5.48	1.31	1.37
1	J	173	HIS	CD2-NE2	-5.48	1.31	1.37
1	H	173	HIS	CD2-NE2	-5.48	1.31	1.37
1	B	173	HIS	CD2-NE2	-5.46	1.31	1.37
1	A	173	HIS	CD2-NE2	-5.45	1.31	1.37
1	F	173	HIS	CD2-NE2	-5.44	1.31	1.37
1	D	129	THR	CA-CB	5.42	1.62	1.52
1	F	129	THR	CA-CB	5.41	1.62	1.52
1	C	129	THR	CA-CB	5.41	1.62	1.52
1	E	129	THR	CA-CB	5.40	1.62	1.52
1	I	129	THR	CA-CB	5.39	1.62	1.52
1	J	129	THR	CA-CB	5.39	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	129	THR	CA-CB	5.38	1.62	1.52
1	B	129	THR	CA-CB	5.38	1.62	1.52
1	G	129	THR	CA-CB	5.37	1.62	1.52
1	A	129	THR	CA-CB	5.37	1.62	1.52
1	B	31	PHE	CA-C	-5.12	1.47	1.52
1	J	31	PHE	CA-C	-5.10	1.47	1.52
1	C	31	PHE	CA-C	-5.10	1.47	1.52
1	A	31	PHE	CA-C	-5.08	1.47	1.52
1	E	31	PHE	CA-C	-5.08	1.47	1.52
1	G	31	PHE	CA-C	-5.07	1.47	1.52
1	D	31	PHE	CA-C	-5.06	1.47	1.52
1	H	31	PHE	CA-C	-5.06	1.47	1.52
1	I	31	PHE	CA-C	-5.06	1.47	1.52
1	H	276	GLU	CA-CB	-5.04	1.45	1.53
1	A	276	GLU	CA-CB	-5.03	1.45	1.53
1	D	276	GLU	CA-CB	-5.03	1.45	1.53
1	F	276	GLU	CA-CB	-5.03	1.45	1.53
1	B	276	GLU	CA-CB	-5.03	1.45	1.53
1	E	276	GLU	CA-CB	-5.02	1.45	1.53
1	G	276	GLU	CA-CB	-5.02	1.45	1.53
1	F	31	PHE	CA-C	-5.01	1.47	1.52
1	H	374	CYS	C-N	5.01	1.40	1.33
1	I	276	GLU	CA-CB	-5.01	1.45	1.53
1	I	374	CYS	C-N	5.01	1.40	1.33
1	A	374	CYS	C-N	5.01	1.40	1.33
1	C	374	CYS	C-N	5.01	1.40	1.33
1	D	374	CYS	C-N	5.01	1.40	1.33
1	E	374	CYS	C-N	5.01	1.40	1.33
1	J	374	CYS	C-N	5.01	1.40	1.33
1	B	374	CYS	C-N	5.00	1.40	1.33
1	F	374	CYS	C-N	5.00	1.40	1.33
1	G	374	CYS	C-N	5.00	1.40	1.33

All (1765) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	74	GLY	O-C-N	-20.62	90.01	123.00
1	B	74	GLY	O-C-N	-20.61	90.02	123.00
1	I	74	GLY	O-C-N	-20.61	90.03	123.00
1	A	74	GLY	O-C-N	-20.61	90.03	123.00
1	C	74	GLY	O-C-N	-20.60	90.03	123.00
1	F	74	GLY	O-C-N	-20.60	90.03	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	74	GLY	O-C-N	-20.60	90.04	123.00
1	G	74	GLY	O-C-N	-20.60	90.04	123.00
1	J	74	GLY	O-C-N	-20.60	90.04	123.00
1	G	73	HIS	CA-CB-CG	-16.00	97.80	113.80
1	J	73	HIS	CA-CB-CG	-16.00	97.80	113.80
1	H	73	HIS	CA-CB-CG	-15.99	97.81	113.80
1	E	73	HIS	CA-CB-CG	-15.99	97.81	113.80
1	B	73	HIS	CA-CB-CG	-15.97	97.83	113.80
1	F	73	HIS	CA-CB-CG	-15.97	97.83	113.80
1	A	73	HIS	CA-CB-CG	-15.97	97.83	113.80
1	D	73	HIS	CA-CB-CG	-15.96	97.84	113.80
1	C	73	HIS	CA-CB-CG	-15.96	97.84	113.80
1	I	73	HIS	CA-CB-CG	-15.95	97.85	113.80
1	I	74	GLY	CA-C-N	-14.80	95.05	121.70
1	I	74	GLY	C-N-CA	-14.80	95.05	121.70
1	C	74	GLY	CA-C-N	-14.80	95.06	121.70
1	C	74	GLY	C-N-CA	-14.80	95.06	121.70
1	F	74	GLY	CA-C-N	-14.80	95.06	121.70
1	F	74	GLY	C-N-CA	-14.80	95.06	121.70
1	A	74	GLY	CA-C-N	-14.80	95.07	121.70
1	A	74	GLY	C-N-CA	-14.80	95.07	121.70
1	B	74	GLY	CA-C-N	-14.79	95.07	121.70
1	B	74	GLY	C-N-CA	-14.79	95.07	121.70
1	D	74	GLY	CA-C-N	-14.79	95.08	121.70
1	D	74	GLY	C-N-CA	-14.79	95.08	121.70
1	G	74	GLY	CA-C-N	-14.79	95.08	121.70
1	G	74	GLY	C-N-CA	-14.79	95.08	121.70
1	H	74	GLY	CA-C-N	-14.79	95.07	121.70
1	H	74	GLY	C-N-CA	-14.79	95.07	121.70
1	J	74	GLY	CA-C-N	-14.78	95.09	121.70
1	J	74	GLY	C-N-CA	-14.78	95.09	121.70
1	C	375	PHE	CA-CB-CG	-11.91	101.89	113.80
1	D	375	PHE	CA-CB-CG	-11.91	101.89	113.80
1	A	375	PHE	CA-CB-CG	-11.87	101.93	113.80
1	E	375	PHE	CA-CB-CG	-11.87	101.93	113.80
1	B	375	PHE	CA-CB-CG	-11.87	101.94	113.80
1	G	375	PHE	CA-CB-CG	-11.86	101.94	113.80
1	J	375	PHE	CA-CB-CG	-11.86	101.94	113.80
1	F	375	PHE	CA-CB-CG	-11.85	101.95	113.80
1	H	375	PHE	CA-CB-CG	-11.84	101.96	113.80
1	I	375	PHE	CA-CB-CG	-11.84	101.97	113.80
1	D	244	ASP	CA-CB-CG	10.97	123.57	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	244	ASP	CA-CB-CG	10.96	123.56	112.60
1	B	244	ASP	CA-CB-CG	10.96	123.56	112.60
1	H	244	ASP	CA-CB-CG	10.96	123.56	112.60
1	E	244	ASP	CA-CB-CG	10.95	123.55	112.60
1	G	244	ASP	CA-CB-CG	10.95	123.55	112.60
1	J	244	ASP	CA-CB-CG	10.94	123.54	112.60
1	C	244	ASP	CA-CB-CG	10.93	123.53	112.60
1	F	244	ASP	CA-CB-CG	10.93	123.53	112.60
1	I	244	ASP	CA-CB-CG	10.93	123.53	112.60
1	B	288	ASP	CA-CB-CG	9.26	121.86	112.60
1	C	204	ALA	N-CA-C	-9.25	100.89	110.97
1	I	288	ASP	CA-CB-CG	9.25	121.85	112.60
1	A	288	ASP	CA-CB-CG	9.24	121.84	112.60
1	D	204	ALA	N-CA-C	-9.23	100.90	110.97
1	H	288	ASP	CA-CB-CG	9.23	121.83	112.60
1	J	288	ASP	CA-CB-CG	9.22	121.83	112.60
1	E	288	ASP	CA-CB-CG	9.22	121.82	112.60
1	D	288	ASP	CA-CB-CG	9.22	121.82	112.60
1	F	288	ASP	CA-CB-CG	9.22	121.82	112.60
1	B	204	ALA	N-CA-C	-9.22	100.92	110.97
1	C	288	ASP	CA-CB-CG	9.21	121.81	112.60
1	A	204	ALA	N-CA-C	-9.21	100.93	110.97
1	H	204	ALA	N-CA-C	-9.21	100.93	110.97
1	J	204	ALA	N-CA-C	-9.21	100.93	110.97
1	E	204	ALA	N-CA-C	-9.20	100.94	110.97
1	G	288	ASP	CA-CB-CG	9.20	121.80	112.60
1	F	204	ALA	N-CA-C	-9.20	100.95	110.97
1	G	204	ALA	N-CA-C	-9.18	100.97	110.97
1	I	204	ALA	N-CA-C	-9.17	100.97	110.97
1	D	370	VAL	CB-CA-C	-9.14	98.00	112.16
1	A	370	VAL	CB-CA-C	-9.13	98.00	112.16
1	I	370	VAL	CB-CA-C	-9.13	98.01	112.16
1	H	370	VAL	CB-CA-C	-9.12	98.02	112.16
1	C	370	VAL	CB-CA-C	-9.12	98.03	112.16
1	E	370	VAL	CB-CA-C	-9.11	98.04	112.16
1	G	370	VAL	CB-CA-C	-9.11	98.04	112.16
1	J	370	VAL	CB-CA-C	-9.11	98.04	112.16
1	B	370	VAL	CB-CA-C	-9.11	98.05	112.16
1	F	370	VAL	CB-CA-C	-9.10	98.06	112.16
1	D	237	GLU	CB-CG-CD	8.94	127.80	112.60
1	I	237	GLU	CB-CG-CD	8.93	127.78	112.60
1	C	237	GLU	CB-CG-CD	8.93	127.77	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	237	GLU	CB-CG-CD	8.93	127.77	112.60
1	H	237	GLU	CB-CG-CD	8.93	127.78	112.60
1	F	237	GLU	CB-CG-CD	8.92	127.77	112.60
1	G	237	GLU	CB-CG-CD	8.92	127.76	112.60
1	J	237	GLU	CB-CG-CD	8.92	127.76	112.60
1	B	237	GLU	CB-CG-CD	8.91	127.75	112.60
1	A	237	GLU	CB-CG-CD	8.90	127.73	112.60
1	G	356	TRP	CB-CG-CD1	-8.56	114.06	126.90
1	C	356	TRP	CB-CG-CD1	-8.54	114.09	126.90
1	H	356	TRP	CB-CG-CD1	-8.54	114.09	126.90
1	A	356	TRP	CB-CG-CD1	-8.54	114.10	126.90
1	F	356	TRP	CB-CG-CD1	-8.53	114.11	126.90
1	E	356	TRP	CB-CG-CD1	-8.53	114.11	126.90
1	J	356	TRP	CB-CG-CD1	-8.53	114.11	126.90
1	B	356	TRP	CB-CG-CD1	-8.52	114.12	126.90
1	I	356	TRP	CB-CG-CD1	-8.51	114.13	126.90
1	D	356	TRP	CB-CG-CD1	-8.50	114.15	126.90
1	A	4	ASP	N-CA-C	-8.47	92.00	107.75
1	D	4	ASP	N-CA-C	-8.46	92.01	107.75
1	G	4	ASP	N-CA-C	-8.46	92.01	107.75
1	E	4	ASP	N-CA-C	-8.46	92.02	107.75
1	C	4	ASP	N-CA-C	-8.46	92.02	107.75
1	F	4	ASP	N-CA-C	-8.46	92.02	107.75
1	I	4	ASP	N-CA-C	-8.46	92.02	107.75
1	H	4	ASP	N-CA-C	-8.45	92.03	107.75
1	B	4	ASP	N-CA-C	-8.45	92.03	107.75
1	A	5	ILE	O-C-N	8.45	133.13	122.57
1	B	5	ILE	O-C-N	8.45	133.13	122.57
1	D	5	ILE	O-C-N	8.45	133.13	122.57
1	J	4	ASP	N-CA-C	-8.45	92.04	107.75
1	E	5	ILE	O-C-N	8.44	133.12	122.57
1	F	5	ILE	O-C-N	8.43	133.11	122.57
1	C	5	ILE	O-C-N	8.43	133.10	122.57
1	J	5	ILE	CA-C-O	8.43	131.31	120.78
1	J	5	ILE	O-C-N	8.42	133.10	122.57
1	H	5	ILE	CA-C-O	8.42	131.31	120.78
1	I	5	ILE	O-C-N	8.42	133.09	122.57
1	G	5	ILE	O-C-N	8.41	133.09	122.57
1	H	5	ILE	O-C-N	8.41	133.09	122.57
1	F	5	ILE	CA-C-O	8.41	131.29	120.78
1	C	5	ILE	CA-C-O	8.40	131.28	120.78
1	A	5	ILE	CA-C-O	8.39	131.26	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	5	ILE	CA-C-O	8.39	131.26	120.78
1	E	5	ILE	CA-C-O	8.38	131.26	120.78
1	I	5	ILE	CA-C-O	8.38	131.26	120.78
1	B	5	ILE	CA-C-O	8.38	131.26	120.78
1	G	5	ILE	CA-C-O	8.38	131.25	120.78
1	B	230	ALA	N-CA-C	-8.37	92.96	110.80
1	G	230	ALA	N-CA-C	-8.38	92.96	110.80
1	D	230	ALA	N-CA-C	-8.36	93.00	110.80
1	E	230	ALA	N-CA-C	-8.36	93.00	110.80
1	H	230	ALA	N-CA-C	-8.36	93.00	110.80
1	J	230	ALA	N-CA-C	-8.36	93.00	110.80
1	A	230	ALA	N-CA-C	-8.35	93.01	110.80
1	C	230	ALA	N-CA-C	-8.35	93.01	110.80
1	I	230	ALA	N-CA-C	-8.35	93.01	110.80
1	F	230	ALA	N-CA-C	-8.35	93.02	110.80
1	J	81	ASP	CA-CB-CG	-8.32	104.28	112.60
1	C	81	ASP	CA-CB-CG	-8.32	104.28	112.60
1	B	81	ASP	CA-CB-CG	-8.31	104.29	112.60
1	A	81	ASP	CA-CB-CG	-8.30	104.30	112.60
1	E	81	ASP	CA-CB-CG	-8.30	104.30	112.60
1	I	81	ASP	CA-CB-CG	-8.30	104.30	112.60
1	H	81	ASP	CA-CB-CG	-8.29	104.31	112.60
1	G	81	ASP	CA-CB-CG	-8.29	104.31	112.60
1	D	81	ASP	CA-CB-CG	-8.27	104.33	112.60
1	H	59	GLN	N-CA-C	-8.26	101.32	111.40
1	F	81	ASP	CA-CB-CG	-8.25	104.35	112.60
1	C	59	GLN	N-CA-C	-8.25	101.34	111.40
1	D	59	GLN	N-CA-C	-8.25	101.34	111.40
1	E	59	GLN	N-CA-C	-8.25	101.34	111.40
1	G	59	GLN	N-CA-C	-8.25	101.34	111.40
1	F	59	GLN	N-CA-C	-8.25	101.34	111.40
1	I	59	GLN	N-CA-C	-8.25	101.34	111.40
1	J	59	GLN	N-CA-C	-8.24	101.34	111.40
1	A	59	GLN	N-CA-C	-8.24	101.35	111.40
1	B	59	GLN	N-CA-C	-8.23	101.35	111.40
1	F	353	GLN	OE1-CD-NE2	-8.18	114.42	122.60
1	G	353	GLN	OE1-CD-NE2	-8.18	114.42	122.60
1	A	353	GLN	OE1-CD-NE2	-8.18	114.42	122.60
1	B	353	GLN	OE1-CD-NE2	-8.18	114.42	122.60
1	E	353	GLN	OE1-CD-NE2	-8.17	114.43	122.60
1	H	353	GLN	OE1-CD-NE2	-8.17	114.43	122.60
1	D	353	GLN	OE1-CD-NE2	-8.17	114.43	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	353	GLN	OE1-CD-NE2	-8.17	114.43	122.60
1	J	353	GLN	OE1-CD-NE2	-8.16	114.44	122.60
1	C	353	GLN	OE1-CD-NE2	-8.15	114.45	122.60
1	G	277	THR	CA-C-O	-8.15	112.31	120.70
1	C	277	THR	CA-C-O	-8.14	112.31	120.70
1	D	277	THR	CA-C-O	-8.14	112.31	120.70
1	E	277	THR	CA-C-O	-8.13	112.33	120.70
1	F	24	ASP	CA-CB-CG	8.12	120.72	112.60
1	J	277	THR	CA-C-O	-8.12	112.33	120.70
1	D	24	ASP	CA-CB-CG	8.11	120.71	112.60
1	B	24	ASP	CA-CB-CG	8.11	120.71	112.60
1	E	24	ASP	CA-CB-CG	8.11	120.71	112.60
1	I	24	ASP	CA-CB-CG	8.10	120.70	112.60
1	A	277	THR	CA-C-O	-8.10	112.36	120.70
1	I	277	THR	CA-C-O	-8.10	112.35	120.70
1	B	277	THR	CA-C-O	-8.10	112.36	120.70
1	F	277	THR	CA-C-O	-8.10	112.36	120.70
1	G	24	ASP	CA-CB-CG	8.10	120.70	112.60
1	H	277	THR	CA-C-O	-8.10	112.36	120.70
1	J	24	ASP	CA-CB-CG	8.09	120.69	112.60
1	A	24	ASP	CA-CB-CG	8.09	120.69	112.60
1	C	24	ASP	CA-CB-CG	8.09	120.69	112.60
1	H	24	ASP	CA-CB-CG	8.08	120.68	112.60
1	H	115	ASN	OD1-CG-ND2	-8.08	114.52	122.60
1	C	115	ASN	OD1-CG-ND2	-8.05	114.55	122.60
1	D	115	ASN	OD1-CG-ND2	-8.05	114.55	122.60
1	E	115	ASN	OD1-CG-ND2	-8.04	114.56	122.60
1	A	115	ASN	OD1-CG-ND2	-8.04	114.56	122.60
1	I	115	ASN	OD1-CG-ND2	-8.04	114.56	122.60
1	F	115	ASN	OD1-CG-ND2	-8.03	114.57	122.60
1	J	115	ASN	OD1-CG-ND2	-8.02	114.58	122.60
1	B	115	ASN	OD1-CG-ND2	-8.01	114.59	122.60
1	G	115	ASN	OD1-CG-ND2	-8.01	114.59	122.60
1	I	374	CYS	CA-C-N	8.01	136.11	121.70
1	I	374	CYS	C-N-CA	8.01	136.11	121.70
1	A	374	CYS	CA-C-N	8.00	136.10	121.70
1	A	374	CYS	C-N-CA	8.00	136.10	121.70
1	D	374	CYS	CA-C-N	8.00	136.09	121.70
1	D	374	CYS	C-N-CA	8.00	136.09	121.70
1	F	374	CYS	CA-C-N	7.98	136.07	121.70
1	F	374	CYS	C-N-CA	7.98	136.07	121.70
1	E	374	CYS	CA-C-N	7.98	136.06	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	374	CYS	C-N-CA	7.98	136.06	121.70
1	J	374	CYS	CA-C-N	7.98	136.06	121.70
1	J	374	CYS	C-N-CA	7.98	136.06	121.70
1	H	374	CYS	CA-C-N	7.97	136.06	121.70
1	H	374	CYS	C-N-CA	7.97	136.06	121.70
1	G	374	CYS	CA-C-N	7.97	136.05	121.70
1	G	374	CYS	C-N-CA	7.97	136.05	121.70
1	B	374	CYS	CA-C-N	7.96	136.03	121.70
1	B	374	CYS	C-N-CA	7.96	136.03	121.70
1	C	374	CYS	CA-C-N	7.95	136.02	121.70
1	C	374	CYS	C-N-CA	7.95	136.02	121.70
1	H	356	TRP	CG-CD2-CE3	7.94	141.84	133.90
1	I	356	TRP	CG-CD2-CE3	7.93	141.83	133.90
1	J	356	TRP	CG-CD2-CE3	7.93	141.83	133.90
1	E	356	TRP	CG-CD2-CE3	7.92	141.82	133.90
1	A	356	TRP	CG-CD2-CE3	7.92	141.82	133.90
1	F	356	TRP	CG-CD2-CE3	7.92	141.82	133.90
1	G	356	TRP	CG-CD2-CE3	7.92	141.82	133.90
1	B	356	TRP	CG-CD2-CE3	7.88	141.78	133.90
1	C	356	TRP	CG-CD2-CE3	7.88	141.78	133.90
1	B	132	MET	CA-CB-CG	7.88	129.85	114.10
1	F	132	MET	CA-CB-CG	7.87	129.85	114.10
1	I	132	MET	CA-CB-CG	7.87	129.84	114.10
1	D	356	TRP	CG-CD2-CE3	7.87	141.77	133.90
1	H	132	MET	CA-CB-CG	7.87	129.84	114.10
1	A	132	MET	CA-CB-CG	7.87	129.83	114.10
1	G	132	MET	CA-CB-CG	7.87	129.83	114.10
1	J	132	MET	CA-CB-CG	7.87	129.83	114.10
1	C	132	MET	CA-CB-CG	7.86	129.83	114.10
1	E	132	MET	CA-CB-CG	7.86	129.83	114.10
1	D	132	MET	CA-CB-CG	7.86	129.81	114.10
1	A	326	LYS	N-CA-C	-7.82	97.29	109.25
1	H	326	LYS	N-CA-C	-7.82	97.29	109.25
1	D	326	LYS	N-CA-C	-7.81	97.30	109.25
1	G	326	LYS	N-CA-C	-7.81	97.31	109.25
1	I	326	LYS	N-CA-C	-7.81	97.31	109.25
1	E	326	LYS	N-CA-C	-7.80	97.31	109.25
1	F	326	LYS	N-CA-C	-7.80	97.32	109.25
1	J	326	LYS	N-CA-C	-7.80	97.32	109.25
1	B	326	LYS	N-CA-C	-7.80	97.32	109.25
1	C	326	LYS	N-CA-C	-7.79	97.32	109.25
1	F	45	VAL	CA-C-O	7.67	130.37	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	45	VAL	CA-C-O	7.67	130.37	120.78
1	B	45	VAL	CA-C-O	7.67	130.36	120.78
1	E	45	VAL	CA-C-O	7.66	130.35	120.78
1	C	45	VAL	CA-C-O	7.65	130.34	120.78
1	D	45	VAL	CA-C-O	7.65	130.34	120.78
1	G	45	VAL	CA-C-O	7.65	130.34	120.78
1	I	45	VAL	CA-C-O	7.65	130.34	120.78
1	C	353	GLN	CB-CG-CD	7.64	125.59	112.60
1	F	353	GLN	CB-CG-CD	7.64	125.58	112.60
1	J	45	VAL	CA-C-O	7.63	130.32	120.78
1	I	353	GLN	CB-CG-CD	7.63	125.57	112.60
1	B	353	GLN	CB-CG-CD	7.63	125.57	112.60
1	A	45	VAL	CA-C-O	7.63	130.31	120.78
1	G	353	GLN	CB-CG-CD	7.63	125.56	112.60
1	E	353	GLN	CB-CG-CD	7.62	125.56	112.60
1	H	353	GLN	CB-CG-CD	7.62	125.56	112.60
1	J	353	GLN	CB-CG-CD	7.62	125.56	112.60
1	D	353	GLN	CB-CG-CD	7.62	125.55	112.60
1	A	353	GLN	CB-CG-CD	7.61	125.54	112.60
1	B	200	PHE	CA-CB-CG	-7.55	106.25	113.80
1	I	200	PHE	CA-CB-CG	-7.55	106.25	113.80
1	C	202	THR	N-CA-C	7.54	122.86	107.69
1	D	200	PHE	CA-CB-CG	-7.54	106.25	113.80
1	D	202	THR	N-CA-C	7.54	122.86	107.69
1	E	202	THR	N-CA-C	7.54	122.85	107.69
1	A	202	THR	N-CA-C	7.54	122.85	107.69
1	I	202	THR	N-CA-C	7.54	122.84	107.69
1	G	200	PHE	CA-CB-CG	-7.54	106.26	113.80
1	G	202	THR	N-CA-C	7.54	122.84	107.69
1	H	202	THR	N-CA-C	7.54	122.84	107.69
1	C	200	PHE	CA-CB-CG	-7.54	106.26	113.80
1	B	202	THR	N-CA-C	7.54	122.84	107.69
1	J	202	THR	N-CA-C	7.54	122.84	107.69
1	E	200	PHE	CA-CB-CG	-7.53	106.27	113.80
1	F	202	THR	N-CA-C	7.53	122.83	107.69
1	F	200	PHE	CA-CB-CG	-7.53	106.27	113.80
1	H	200	PHE	CA-CB-CG	-7.52	106.28	113.80
1	J	200	PHE	CA-CB-CG	-7.51	106.28	113.80
1	A	80	ASP	CA-CB-CG	7.51	120.11	112.60
1	H	80	ASP	CA-CB-CG	7.51	120.11	112.60
1	D	99	GLU	N-CA-C	7.51	122.08	113.15
1	A	200	PHE	CA-CB-CG	-7.50	106.30	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	80	ASP	CA-CB-CG	7.50	120.09	112.60
1	E	80	ASP	CA-CB-CG	7.49	120.09	112.60
1	H	99	GLU	N-CA-C	7.49	122.07	113.15
1	D	80	ASP	CA-CB-CG	7.49	120.09	112.60
1	B	80	ASP	CA-CB-CG	7.48	120.08	112.60
1	B	99	GLU	N-CA-C	7.48	122.05	113.15
1	E	99	GLU	N-CA-C	7.48	122.05	113.15
1	F	80	ASP	CA-CB-CG	7.48	120.08	112.60
1	J	80	ASP	CA-CB-CG	7.48	120.08	112.60
1	G	80	ASP	CA-CB-CG	7.48	120.08	112.60
1	I	99	GLU	N-CA-C	7.48	122.05	113.15
1	C	80	ASP	CA-CB-CG	7.47	120.07	112.60
1	G	99	GLU	N-CA-C	7.47	122.04	113.15
1	J	99	GLU	N-CA-C	7.47	122.03	113.15
1	F	99	GLU	N-CA-C	7.46	122.02	113.15
1	C	99	GLU	N-CA-C	7.46	122.02	113.15
1	A	99	GLU	N-CA-C	7.45	122.01	113.15
1	F	4	ASP	O-C-N	7.40	131.97	122.87
1	D	4	ASP	O-C-N	7.39	131.97	122.87
1	G	4	ASP	O-C-N	7.39	131.97	122.87
1	H	4	ASP	O-C-N	7.39	131.96	122.87
1	B	4	ASP	O-C-N	7.39	131.96	122.87
1	I	375	PHE	N-CA-C	7.39	131.69	111.00
1	J	4	ASP	O-C-N	7.39	131.96	122.87
1	E	4	ASP	O-C-N	7.38	131.95	122.87
1	J	375	PHE	N-CA-C	7.38	131.68	111.00
1	F	375	PHE	N-CA-C	7.38	131.67	111.00
1	A	4	ASP	O-C-N	7.38	131.95	122.87
1	A	375	PHE	N-CA-C	7.38	131.67	111.00
1	E	375	PHE	N-CA-C	7.38	131.67	111.00
1	D	375	PHE	N-CA-C	7.38	131.66	111.00
1	B	375	PHE	N-CA-C	7.38	131.66	111.00
1	G	375	PHE	N-CA-C	7.38	131.66	111.00
1	I	4	ASP	O-C-N	7.38	131.95	122.87
1	C	4	ASP	O-C-N	7.38	131.94	122.87
1	H	375	PHE	N-CA-C	7.37	131.63	111.00
1	C	375	PHE	N-CA-C	7.36	131.61	111.00
1	D	157	ASP	CA-CB-CG	7.30	119.90	112.60
1	B	157	ASP	CA-CB-CG	7.28	119.88	112.60
1	F	157	ASP	CA-CB-CG	7.27	119.87	112.60
1	J	157	ASP	CA-CB-CG	7.27	119.87	112.60
1	H	157	ASP	CA-CB-CG	7.26	119.86	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	157	ASP	CA-CB-CG	7.26	119.86	112.60
1	G	157	ASP	CA-CB-CG	7.25	119.85	112.60
1	I	157	ASP	CA-CB-CG	7.25	119.85	112.60
1	C	157	ASP	CA-CB-CG	7.24	119.84	112.60
1	A	157	ASP	CA-CB-CG	7.24	119.84	112.60
1	C	161	HIS	CB-CG-CD2	-7.00	122.09	131.20
1	B	161	HIS	CB-CG-CD2	-6.99	122.11	131.20
1	A	161	HIS	CB-CG-CD2	-6.99	122.11	131.20
1	H	161	HIS	CB-CG-CD2	-6.99	122.11	131.20
1	G	161	HIS	CB-CG-CD2	-6.99	122.11	131.20
1	I	161	HIS	CB-CG-CD2	-6.99	122.12	131.20
1	E	161	HIS	CB-CG-CD2	-6.98	122.13	131.20
1	J	161	HIS	CB-CG-CD2	-6.98	122.13	131.20
1	F	161	HIS	CB-CG-CD2	-6.98	122.13	131.20
1	D	161	HIS	CB-CG-CD2	-6.98	122.13	131.20
1	C	56	ASP	N-CA-C	6.97	121.01	112.23
1	F	56	ASP	N-CA-C	6.96	121.00	112.23
1	B	56	ASP	N-CA-C	6.95	120.99	112.23
1	G	56	ASP	N-CA-C	6.95	120.98	112.23
1	E	56	ASP	N-CA-C	6.94	120.97	112.23
1	I	56	ASP	N-CA-C	6.94	120.97	112.23
1	H	115	ASN	CB-CG-ND2	6.94	126.81	116.40
1	D	56	ASP	N-CA-C	6.93	120.97	112.23
1	J	56	ASP	N-CA-C	6.93	120.96	112.23
1	H	56	ASP	N-CA-C	6.93	120.96	112.23
1	C	115	ASN	CB-CG-ND2	6.92	126.78	116.40
1	F	115	ASN	CB-CG-ND2	6.91	126.77	116.40
1	I	115	ASN	CB-CG-ND2	6.91	126.77	116.40
1	A	56	ASP	N-CA-C	6.91	120.94	112.23
1	G	356	TRP	CG-CD1-NE1	-6.91	101.22	110.20
1	E	115	ASN	CB-CG-ND2	6.90	126.75	116.40
1	D	115	ASN	CB-CG-ND2	6.90	126.75	116.40
1	D	255	PHE	CA-CB-CG	6.89	120.69	113.80
1	A	115	ASN	CB-CG-ND2	6.89	126.73	116.40
1	A	173	HIS	CB-CG-CD2	-6.89	122.25	131.20
1	F	356	TRP	CG-CD1-NE1	-6.89	101.25	110.20
1	C	356	TRP	CG-CD1-NE1	-6.89	101.25	110.20
1	I	255	PHE	CA-CB-CG	6.89	120.69	113.80
1	B	255	PHE	CA-CB-CG	6.88	120.68	113.80
1	C	255	PHE	CA-CB-CG	6.88	120.69	113.80
1	F	173	HIS	CB-CG-CD2	-6.88	122.25	131.20
1	J	255	PHE	CA-CB-CG	6.88	120.68	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	255	PHE	CA-CB-CG	6.88	120.68	113.80
1	F	255	PHE	CA-CB-CG	6.88	120.68	113.80
1	G	115	ASN	CB-CG-ND2	6.88	126.72	116.40
1	J	356	TRP	CG-CD1-NE1	-6.88	101.26	110.20
1	B	115	ASN	CB-CG-ND2	6.87	126.71	116.40
1	E	255	PHE	CA-CB-CG	6.87	120.67	113.80
1	H	356	TRP	CG-CD1-NE1	-6.87	101.26	110.20
1	E	356	TRP	CG-CD1-NE1	-6.87	101.28	110.20
1	J	115	ASN	CB-CG-ND2	6.87	126.70	116.40
1	I	356	TRP	CG-CD1-NE1	-6.86	101.28	110.20
1	D	356	TRP	CG-CD1-NE1	-6.85	101.30	110.20
1	A	356	TRP	CG-CD1-NE1	-6.85	101.30	110.20
1	A	255	PHE	CA-CB-CG	6.84	120.64	113.80
1	E	173	HIS	CB-CG-CD2	-6.84	122.30	131.20
1	H	255	PHE	CA-CB-CG	6.84	120.64	113.80
1	B	173	HIS	CB-CG-CD2	-6.84	122.31	131.20
1	F	235	SER	N-CA-C	6.84	121.47	113.20
1	B	235	SER	N-CA-C	6.83	121.46	113.20
1	B	356	TRP	CG-CD1-NE1	-6.83	101.32	110.20
1	H	173	HIS	CB-CG-CD2	-6.83	122.33	131.20
1	C	173	HIS	CB-CG-CD2	-6.82	122.33	131.20
1	C	235	SER	N-CA-C	6.82	121.46	113.20
1	G	235	SER	N-CA-C	6.82	121.46	113.20
1	J	262	PHE	CA-CB-CG	-6.82	106.98	113.80
1	F	262	PHE	CA-CB-CG	-6.82	106.98	113.80
1	I	235	SER	N-CA-C	6.82	121.45	113.20
1	C	262	PHE	CA-CB-CG	-6.82	106.98	113.80
1	I	173	HIS	CB-CG-CD2	-6.82	122.34	131.20
1	A	262	PHE	CA-CB-CG	-6.82	106.98	113.80
1	D	235	SER	N-CA-C	6.82	121.45	113.20
1	G	262	PHE	CA-CB-CG	-6.82	106.98	113.80
1	J	173	HIS	CB-CG-CD2	-6.82	122.34	131.20
1	G	173	HIS	CB-CG-CD2	-6.81	122.34	131.20
1	D	173	HIS	CB-CG-CD2	-6.81	122.34	131.20
1	E	235	SER	N-CA-C	6.80	121.43	113.20
1	B	262	PHE	CA-CB-CG	-6.80	107.00	113.80
1	J	235	SER	N-CA-C	6.80	121.42	113.20
1	I	262	PHE	CA-CB-CG	-6.79	107.01	113.80
1	E	262	PHE	CA-CB-CG	-6.78	107.02	113.80
1	H	262	PHE	CA-CB-CG	-6.78	107.02	113.80
1	D	262	PHE	CA-CB-CG	-6.77	107.03	113.80
1	J	356	TRP	CD1-CG-CD2	6.74	117.09	106.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	356	TRP	CD1-CG-CD2	6.74	117.08	106.30
1	C	356	TRP	CD1-CG-CD2	6.73	117.07	106.30
1	H	356	TRP	CD1-CG-CD2	6.73	117.06	106.30
1	A	356	TRP	CD1-CG-CD2	6.72	117.06	106.30
1	F	263	GLN	O-C-N	-6.72	115.20	121.32
1	I	263	GLN	O-C-N	-6.72	115.20	121.32
1	E	356	TRP	CD1-CG-CD2	6.72	117.05	106.30
1	I	356	TRP	CD1-CG-CD2	6.72	117.05	106.30
1	H	263	GLN	O-C-N	-6.72	115.21	121.32
1	F	356	TRP	CD1-CG-CD2	6.72	117.05	106.30
1	G	277	THR	CA-CB-OG1	-6.72	99.53	109.60
1	B	277	THR	CA-CB-OG1	-6.71	99.53	109.60
1	C	277	THR	CA-CB-OG1	-6.71	99.53	109.60
1	H	277	THR	CA-CB-OG1	-6.71	99.53	109.60
1	E	263	GLN	O-C-N	-6.71	115.21	121.32
1	D	263	GLN	O-C-N	-6.70	115.22	121.32
1	G	263	GLN	O-C-N	-6.70	115.22	121.32
1	D	277	THR	CA-CB-OG1	-6.70	99.55	109.60
1	E	277	THR	CA-CB-OG1	-6.70	99.55	109.60
1	B	263	GLN	O-C-N	-6.70	115.23	121.32
1	B	356	TRP	CD1-CG-CD2	6.70	117.01	106.30
1	F	277	THR	CA-CB-OG1	-6.70	99.56	109.60
1	J	263	GLN	O-C-N	-6.69	115.23	121.32
1	J	277	THR	CA-CB-OG1	-6.69	99.56	109.60
1	A	277	THR	CA-CB-OG1	-6.69	99.56	109.60
1	I	277	THR	CA-CB-OG1	-6.69	99.56	109.60
1	D	356	TRP	CD1-CG-CD2	6.68	116.99	106.30
1	C	263	GLN	O-C-N	-6.67	115.25	121.32
1	A	263	GLN	O-C-N	-6.67	115.25	121.32
1	H	235	SER	N-CA-C	6.67	121.42	113.16
1	A	235	SER	N-CA-C	6.66	121.42	113.16
1	I	117	GLU	CA-C-O	-6.66	113.84	120.70
2	M	72	ASP	N-CA-C	6.65	121.11	113.19
1	F	5	ILE	CA-CB-CG1	-6.65	99.10	110.40
2	R	72	ASP	N-CA-C	6.65	121.10	113.19
1	A	5	ILE	CA-CB-CG1	-6.64	99.10	110.40
1	J	5	ILE	CA-CB-CG1	-6.64	99.11	110.40
1	G	117	GLU	CA-C-O	-6.64	113.86	120.70
1	D	5	ILE	CA-CB-CG1	-6.64	99.12	110.40
1	D	49	GLN	CA-C-N	6.64	132.96	123.14
1	D	49	GLN	C-N-CA	6.64	132.96	123.14
1	E	5	ILE	CA-CB-CG1	-6.64	99.12	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	49	GLN	CA-C-N	6.64	132.96	123.14
1	J	49	GLN	C-N-CA	6.64	132.96	123.14
1	C	5	ILE	CA-CB-CG1	-6.63	99.12	110.40
1	E	117	GLU	CA-C-O	-6.63	113.87	120.70
1	I	5	ILE	CA-CB-CG1	-6.63	99.13	110.40
1	F	49	GLN	CA-C-N	6.63	132.95	123.14
1	F	49	GLN	C-N-CA	6.63	132.95	123.14
1	A	117	GLU	CA-C-O	-6.63	113.87	120.70
1	B	5	ILE	CA-CB-CG1	-6.63	99.13	110.40
1	G	5	ILE	CA-CB-CG1	-6.63	99.13	110.40
1	H	5	ILE	CA-CB-CG1	-6.63	99.14	110.40
1	J	117	GLU	CA-C-O	-6.62	113.88	120.70
1	F	117	GLU	CA-C-O	-6.62	113.88	120.70
1	H	117	GLU	CA-C-O	-6.62	113.88	120.70
1	B	117	GLU	CA-C-O	-6.62	113.89	120.70
1	B	49	GLN	CA-C-N	6.62	132.93	123.14
1	B	49	GLN	C-N-CA	6.62	132.93	123.14
2	P	72	ASP	N-CA-C	6.62	121.06	113.19
2	S	72	ASP	N-CA-C	6.62	121.06	113.19
1	D	117	GLU	CA-C-O	-6.61	113.89	120.70
1	I	49	GLN	CA-C-N	6.61	132.93	123.14
1	I	49	GLN	C-N-CA	6.61	132.93	123.14
1	H	49	GLN	CA-C-N	6.61	132.92	123.14
1	H	49	GLN	C-N-CA	6.61	132.92	123.14
1	E	49	GLN	CA-C-N	6.61	132.92	123.14
1	E	49	GLN	C-N-CA	6.61	132.92	123.14
1	C	117	GLU	CA-C-O	-6.61	113.90	120.70
2	K	72	ASP	N-CA-C	6.61	121.05	113.19
2	N	72	ASP	N-CA-C	6.61	121.05	113.19
2	L	72	ASP	N-CA-C	6.60	121.05	113.19
1	C	49	GLN	CA-C-N	6.60	132.91	123.14
1	C	49	GLN	C-N-CA	6.60	132.91	123.14
2	T	72	ASP	N-CA-C	6.60	121.04	113.19
2	Q	72	ASP	N-CA-C	6.60	121.04	113.19
1	G	49	GLN	CA-C-N	6.59	132.90	123.14
1	G	49	GLN	C-N-CA	6.59	132.90	123.14
1	A	49	GLN	CA-C-N	6.58	132.88	123.14
1	A	49	GLN	C-N-CA	6.58	132.88	123.14
2	O	72	ASP	N-CA-C	6.57	121.01	113.19
1	G	148	THR	N-CA-CB	-6.54	102.31	111.00
1	B	148	THR	N-CA-CB	-6.53	102.31	111.00
1	I	148	THR	N-CA-CB	-6.53	102.32	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	148	THR	N-CA-CB	-6.53	102.32	111.00
1	C	357	ILE	N-CA-C	-6.52	98.34	107.80
1	G	357	ILE	N-CA-C	-6.52	98.34	107.80
1	D	357	ILE	N-CA-C	-6.52	98.35	107.80
1	F	147	ARG	CB-CG-CD	-6.51	96.32	111.30
1	H	147	ARG	CB-CG-CD	-6.51	96.33	111.30
1	E	357	ILE	N-CA-C	-6.51	98.36	107.80
1	C	147	ARG	CB-CG-CD	-6.51	96.33	111.30
1	D	147	ARG	CB-CG-CD	-6.51	96.34	111.30
1	J	357	ILE	N-CA-C	-6.51	98.36	107.80
1	G	147	ARG	CB-CG-CD	-6.50	96.34	111.30
1	I	147	ARG	CB-CG-CD	-6.50	96.34	111.30
1	I	357	ILE	N-CA-C	-6.50	98.37	107.80
1	A	148	THR	N-CA-CB	-6.50	102.35	111.00
1	E	147	ARG	CB-CG-CD	-6.50	96.35	111.30
1	E	148	THR	N-CA-CB	-6.50	102.35	111.00
1	H	357	ILE	N-CA-C	-6.50	98.38	107.80
1	A	147	ARG	CB-CG-CD	-6.50	96.35	111.30
1	B	147	ARG	CB-CG-CD	-6.50	96.36	111.30
1	F	148	THR	N-CA-CB	-6.50	102.36	111.00
1	B	357	ILE	N-CA-C	-6.50	98.38	107.80
1	A	357	ILE	N-CA-C	-6.49	98.39	107.80
1	C	148	THR	N-CA-CB	-6.49	102.37	111.00
1	J	147	ARG	CB-CG-CD	-6.49	96.37	111.30
1	J	148	THR	N-CA-CB	-6.49	102.37	111.00
1	D	148	THR	N-CA-CB	-6.49	102.37	111.00
1	F	357	ILE	N-CA-C	-6.48	98.40	107.80
1	H	62	ARG	CA-CB-CG	6.48	127.05	114.10
2	T	122	VAL	CB-CA-C	-6.47	104.24	111.23
2	S	122	VAL	CB-CA-C	-6.47	104.25	111.23
1	D	62	ARG	CA-CB-CG	6.47	127.03	114.10
1	J	62	ARG	CA-CB-CG	6.47	127.03	114.10
2	L	122	VAL	CB-CA-C	-6.46	104.25	111.23
1	F	62	ARG	CA-CB-CG	6.46	127.02	114.10
1	D	96	VAL	N-CA-CB	-6.46	104.27	112.60
1	G	24	ASP	CA-C-O	6.46	128.90	121.28
1	I	62	ARG	CA-CB-CG	6.46	127.02	114.10
2	Q	122	VAL	CB-CA-C	-6.46	104.25	111.23
1	E	62	ARG	CA-CB-CG	6.46	127.01	114.10
1	I	96	VAL	N-CA-CB	-6.46	104.27	112.60
1	A	62	ARG	CA-CB-CG	6.45	127.00	114.10
1	B	62	ARG	CA-CB-CG	6.45	127.00	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	59	GLN	OE1-CD-NE2	-6.45	116.15	122.60
1	C	62	ARG	CA-CB-CG	6.45	126.99	114.10
2	N	122	VAL	CB-CA-C	-6.44	104.27	111.23
1	B	59	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	G	62	ARG	CA-CB-CG	6.44	126.98	114.10
2	P	122	VAL	CB-CA-C	-6.44	104.28	111.23
1	H	96	VAL	N-CA-CB	-6.43	104.30	112.60
2	O	122	VAL	CB-CA-C	-6.43	104.28	111.23
1	D	59	GLN	OE1-CD-NE2	-6.43	116.17	122.60
1	A	24	ASP	CA-C-O	6.43	128.87	121.28
1	C	24	ASP	CA-C-O	6.43	128.87	121.28
1	C	96	VAL	N-CA-CB	-6.43	104.31	112.60
1	E	96	VAL	N-CA-CB	-6.43	104.31	112.60
1	I	59	GLN	OE1-CD-NE2	-6.43	116.17	122.60
1	F	24	ASP	CA-C-O	6.42	128.86	121.28
1	J	24	ASP	CA-C-O	6.42	128.86	121.28
1	A	96	VAL	N-CA-CB	-6.42	104.32	112.60
1	D	111	ASN	OD1-CG-ND2	-6.42	116.18	122.60
2	M	122	VAL	CB-CA-C	-6.42	104.30	111.23
1	B	96	VAL	N-CA-CB	-6.42	104.32	112.60
1	I	24	ASP	CA-C-O	6.42	128.85	121.28
1	F	96	VAL	N-CA-CB	-6.41	104.33	112.60
2	R	122	VAL	CB-CA-C	-6.41	104.30	111.23
1	F	59	GLN	OE1-CD-NE2	-6.41	116.19	122.60
2	K	122	VAL	CB-CA-C	-6.41	104.31	111.23
1	J	111	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	E	24	ASP	CA-C-O	6.41	128.84	121.28
1	E	59	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	H	24	ASP	CA-C-O	6.41	128.84	121.28
1	H	59	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	D	24	ASP	CA-C-O	6.41	128.84	121.28
1	G	59	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	B	24	ASP	CA-C-O	6.40	128.83	121.28
1	F	111	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	G	96	VAL	N-CA-CB	-6.40	104.34	112.60
1	G	181	ALA	CA-C-O	-6.40	114.33	121.05
1	B	111	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	D	315	LYS	CA-CB-CG	6.40	126.89	114.10
1	J	59	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	H	67	LEU	N-CA-C	6.39	119.15	108.73
1	H	315	LYS	CA-CB-CG	6.39	126.89	114.10
1	B	58	ALA	N-CA-C	-6.39	105.23	114.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	315	LYS	CA-CB-CG	6.39	126.89	114.10
1	J	96	VAL	N-CA-CB	-6.39	104.35	112.60
1	E	111	ASN	OD1-CG-ND2	-6.39	116.21	122.60
1	C	58	ALA	N-CA-C	-6.39	105.24	114.12
1	C	59	GLN	OE1-CD-NE2	-6.39	116.21	122.60
1	G	58	ALA	N-CA-C	-6.39	105.24	114.12
1	E	315	LYS	CA-CB-CG	6.39	126.88	114.10
1	G	315	LYS	CA-CB-CG	6.39	126.87	114.10
1	A	181	ALA	CA-C-O	-6.38	114.35	121.05
1	A	315	LYS	CA-CB-CG	6.38	126.86	114.10
1	B	315	LYS	CA-CB-CG	6.38	126.86	114.10
1	I	111	ASN	OD1-CG-ND2	-6.38	116.22	122.60
1	I	315	LYS	CA-CB-CG	6.38	126.86	114.10
1	F	67	LEU	N-CA-C	6.38	119.13	108.73
1	H	111	ASN	OD1-CG-ND2	-6.38	116.22	122.60
1	J	315	LYS	CA-CB-CG	6.38	126.86	114.10
1	C	315	LYS	CA-CB-CG	6.38	126.85	114.10
1	B	181	ALA	CA-C-O	-6.37	114.36	121.05
1	F	58	ALA	N-CA-C	-6.37	105.26	114.12
1	F	275	HIS	CB-CG-CD2	-6.37	122.92	131.20
1	I	86	TRP	CG-CD2-CE3	6.37	140.27	133.90
1	J	58	ALA	N-CA-C	-6.37	105.26	114.12
1	A	111	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	B	67	LEU	N-CA-C	6.37	119.11	108.73
1	C	111	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	C	181	ALA	CA-C-O	-6.37	114.36	121.05
1	E	58	ALA	N-CA-C	-6.37	105.27	114.12
1	G	111	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	H	58	ALA	N-CA-C	-6.37	105.27	114.12
1	I	58	ALA	N-CA-C	-6.37	105.27	114.12
1	A	58	ALA	N-CA-C	-6.36	105.27	114.12
1	E	181	ALA	CA-C-O	-6.36	114.37	121.05
1	G	275	HIS	CB-CG-CD2	-6.36	122.93	131.20
1	J	181	ALA	CA-C-O	-6.36	114.37	121.05
1	D	181	ALA	CA-C-O	-6.36	114.37	121.05
1	I	181	ALA	CA-C-O	-6.36	114.37	121.05
1	A	275	HIS	CB-CG-CD2	-6.36	122.93	131.20
1	A	67	LEU	N-CA-C	6.36	119.09	108.73
1	D	67	LEU	N-CA-C	6.36	119.09	108.73
1	F	86	TRP	CG-CD2-CE3	6.36	140.26	133.90
1	J	67	LEU	N-CA-C	6.35	119.09	108.73
1	C	275	HIS	CB-CG-CD2	-6.35	122.94	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	275	HIS	CB-CG-CD2	-6.35	122.94	131.20
1	B	86	TRP	CG-CD2-CE3	6.35	140.25	133.90
1	B	275	HIS	CB-CG-CD2	-6.35	122.95	131.20
1	I	67	LEU	N-CA-C	6.35	119.08	108.73
1	C	86	TRP	CG-CD2-CE3	6.35	140.25	133.90
1	E	67	LEU	N-CA-C	6.35	119.08	108.73
1	E	86	TRP	CG-CD2-CE3	6.35	140.25	133.90
1	E	275	HIS	CB-CG-CD2	-6.35	122.95	131.20
1	C	67	LEU	N-CA-C	6.35	119.07	108.73
1	D	275	HIS	CB-CG-CD2	-6.35	122.95	131.20
1	D	58	ALA	N-CA-C	-6.34	105.31	114.12
1	F	181	ALA	CA-C-O	-6.33	114.40	121.05
1	H	181	ALA	CA-C-O	-6.33	114.40	121.05
1	I	275	HIS	CB-CG-CD2	-6.33	122.97	131.20
1	G	67	LEU	N-CA-C	6.33	119.05	108.73
1	J	275	HIS	CB-CG-CD2	-6.33	122.97	131.20
1	J	86	TRP	CG-CD2-CE3	6.33	140.23	133.90
1	D	86	TRP	CG-CD2-CE3	6.33	140.23	133.90
1	H	86	TRP	CG-CD2-CE3	6.32	140.22	133.90
1	G	86	TRP	CG-CD2-CE3	6.32	140.22	133.90
1	A	86	TRP	CG-CD2-CE3	6.31	140.21	133.90
1	G	190	MET	CA-CB-CG	6.28	126.66	114.10
1	J	356	TRP	CE2-CD2-CG	-6.28	99.66	107.20
1	I	190	MET	CA-CB-CG	6.27	126.65	114.10
1	E	190	MET	CA-CB-CG	6.27	126.64	114.10
1	F	190	MET	CA-CB-CG	6.27	126.64	114.10
1	B	190	MET	CA-CB-CG	6.27	126.63	114.10
1	J	190	MET	CA-CB-CG	6.27	126.63	114.10
1	C	190	MET	CA-CB-CG	6.26	126.63	114.10
1	J	252	ASN	CA-CB-CG	6.26	118.86	112.60
1	A	190	MET	CA-CB-CG	6.25	126.61	114.10
1	D	190	MET	CA-CB-CG	6.25	126.60	114.10
1	H	190	MET	CA-CB-CG	6.25	126.60	114.10
1	A	356	TRP	CE2-CD2-CG	-6.25	99.70	107.20
1	B	252	ASN	CA-CB-CG	6.25	118.85	112.60
1	C	356	TRP	CE2-CD2-CG	-6.25	99.70	107.20
1	D	311	ASP	CB-CA-C	-6.25	100.42	110.79
1	E	356	TRP	CE2-CD2-CG	-6.25	99.70	107.20
1	F	356	TRP	CE2-CD2-CG	-6.25	99.71	107.20
1	I	356	TRP	CE2-CD2-CG	-6.24	99.71	107.20
1	C	311	ASP	CB-CA-C	-6.24	100.43	110.79
1	H	252	ASN	CA-CB-CG	6.24	118.84	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	252	ASN	CA-CB-CG	6.23	118.83	112.60
1	I	252	ASN	CA-CB-CG	6.23	118.83	112.60
1	J	311	ASP	CB-CA-C	-6.23	100.44	110.79
1	A	252	ASN	CA-CB-CG	6.23	118.83	112.60
1	B	356	TRP	CE2-CD2-CG	-6.23	99.72	107.20
1	E	252	ASN	CA-CB-CG	6.23	118.83	112.60
1	G	356	TRP	CE2-CD2-CG	-6.23	99.72	107.20
1	A	217	CYS	CA-CB-SG	-6.23	100.08	114.40
1	C	217	CYS	CA-CB-SG	-6.23	100.08	114.40
1	H	311	ASP	CB-CA-C	-6.23	100.45	110.79
1	H	356	TRP	CE2-CD2-CG	-6.23	99.73	107.20
1	I	217	CYS	CA-CB-SG	-6.23	100.08	114.40
1	G	217	CYS	CA-CB-SG	-6.23	100.08	114.40
1	E	311	ASP	CB-CA-C	-6.22	100.46	110.79
1	G	311	ASP	CB-CA-C	-6.22	100.46	110.79
1	H	217	CYS	CA-CB-SG	-6.22	100.09	114.40
1	D	356	TRP	CE2-CD2-CG	-6.22	99.73	107.20
1	I	311	ASP	CB-CA-C	-6.22	100.46	110.79
1	B	217	CYS	CA-CB-SG	-6.22	100.10	114.40
1	E	217	CYS	CA-CB-SG	-6.22	100.09	114.40
1	F	217	CYS	CA-CB-SG	-6.22	100.10	114.40
1	J	217	CYS	CA-CB-SG	-6.21	100.11	114.40
1	C	252	ASN	CA-CB-CG	6.21	118.81	112.60
1	F	252	ASN	CA-CB-CG	6.21	118.81	112.60
1	D	217	CYS	CA-CB-SG	-6.21	100.12	114.40
1	A	311	ASP	CB-CA-C	-6.21	100.49	110.79
1	G	252	ASN	CA-CB-CG	6.21	118.81	112.60
1	B	311	ASP	CB-CA-C	-6.21	100.49	110.79
1	F	311	ASP	CB-CA-C	-6.20	100.51	110.79
1	H	265	SER	N-CA-C	-6.20	104.63	111.82
1	C	265	SER	N-CA-C	-6.19	104.64	111.82
1	F	265	SER	N-CA-C	-6.19	104.64	111.82
1	J	265	SER	N-CA-C	-6.19	104.64	111.82
1	B	265	SER	N-CA-C	-6.19	104.64	111.82
1	B	301	GLY	CA-C-O	-6.19	116.45	121.77
1	H	2	ASP	CA-CB-CG	6.18	118.78	112.60
1	D	301	GLY	CA-C-O	-6.18	116.45	121.77
1	I	265	SER	N-CA-C	-6.18	104.65	111.82
1	B	206	ARG	CA-C-O	6.18	127.08	119.79
1	E	265	SER	N-CA-C	-6.18	104.65	111.82
1	G	265	SER	N-CA-C	-6.18	104.65	111.82
1	G	301	GLY	CA-C-O	-6.18	116.46	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	2	ASP	CA-CB-CG	6.18	118.78	112.60
1	B	87	HIS	CB-CG-CD2	-6.18	123.17	131.20
1	F	301	GLY	CA-C-O	-6.17	116.46	121.77
1	I	301	GLY	CA-C-O	-6.17	116.46	121.77
1	A	265	SER	N-CA-C	-6.17	104.67	111.82
1	E	301	GLY	CA-C-O	-6.17	116.47	121.77
1	J	301	GLY	CA-C-O	-6.17	116.47	121.77
1	E	2	ASP	CA-CB-CG	6.17	118.77	112.60
1	F	206	ARG	CA-C-O	6.17	127.07	119.79
1	F	280	ASN	CA-CB-CG	6.17	118.77	112.60
1	H	301	GLY	CA-C-O	-6.17	116.47	121.77
1	F	87	HIS	CB-CG-CD2	-6.17	123.19	131.20
1	C	301	GLY	CA-C-O	-6.16	116.47	121.77
1	D	2	ASP	CA-CB-CG	6.16	118.76	112.60
1	J	2	ASP	CA-CB-CG	6.16	118.76	112.60
1	D	265	SER	N-CA-C	-6.16	104.68	111.82
1	F	2	ASP	CA-CB-CG	6.16	118.76	112.60
1	H	87	HIS	CB-CG-CD2	-6.16	123.20	131.20
1	J	302	GLY	O-C-N	-6.16	116.28	122.19
1	A	301	GLY	CA-C-O	-6.16	116.48	121.77
1	C	2	ASP	CA-CB-CG	6.16	118.75	112.60
1	G	2	ASP	CA-CB-CG	6.15	118.75	112.60
1	J	87	HIS	CB-CG-CD2	-6.15	123.20	131.20
1	I	2	ASP	CA-CB-CG	6.15	118.75	112.60
1	B	280	ASN	CA-CB-CG	6.14	118.74	112.60
1	G	302	GLY	O-C-N	-6.14	116.29	122.19
1	H	224	GLU	CA-CB-CG	6.14	126.39	114.10
1	A	2	ASP	CA-CB-CG	6.14	118.74	112.60
1	F	224	GLU	CA-CB-CG	6.14	126.39	114.10
1	I	87	HIS	CB-CG-CD2	-6.14	123.21	131.20
1	H	280	ASN	CA-CB-CG	6.14	118.74	112.60
1	I	206	ARG	CA-C-O	6.14	127.03	119.79
1	I	280	ASN	CA-CB-CG	6.14	118.74	112.60
1	C	224	GLU	CA-CB-CG	6.14	126.38	114.10
1	D	206	ARG	CA-C-O	6.14	127.03	119.79
1	A	56	ASP	CA-CB-CG	6.14	118.74	112.60
1	E	206	ARG	CA-C-O	6.14	127.03	119.79
1	E	280	ASN	CA-CB-CG	6.14	118.74	112.60
1	G	87	HIS	CB-CG-CD2	-6.14	123.22	131.20
1	I	56	ASP	CA-CB-CG	6.14	118.74	112.60
1	E	87	HIS	CB-CG-CD2	-6.13	123.23	131.20
1	I	224	GLU	CA-CB-CG	6.13	126.36	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	224	GLU	CA-CB-CG	6.13	126.36	114.10
1	C	87	HIS	CB-CG-CD2	-6.13	123.23	131.20
1	D	224	GLU	CA-CB-CG	6.13	126.36	114.10
1	H	206	ARG	CA-C-O	6.13	127.02	119.79
1	D	280	ASN	CA-CB-CG	6.13	118.73	112.60
1	J	206	ARG	CA-C-O	6.13	127.02	119.79
1	A	87	HIS	CB-CG-CD2	-6.12	123.24	131.20
1	D	56	ASP	CA-CB-CG	6.12	118.72	112.60
1	A	206	ARG	CA-C-O	6.12	127.01	119.79
1	A	224	GLU	CA-CB-CG	6.12	126.34	114.10
1	B	302	GLY	O-C-N	-6.12	116.32	122.19
1	G	206	ARG	CA-C-O	6.12	127.01	119.79
1	G	224	GLU	CA-CB-CG	6.12	126.34	114.10
1	J	280	ASN	CA-CB-CG	6.12	118.72	112.60
1	E	56	ASP	CA-CB-CG	6.12	118.72	112.60
1	B	56	ASP	CA-CB-CG	6.11	118.71	112.60
1	C	302	GLY	O-C-N	-6.11	116.32	122.19
1	J	224	GLU	CA-CB-CG	6.11	126.33	114.10
1	A	280	ASN	CA-CB-CG	6.11	118.71	112.60
1	J	56	ASP	CA-CB-CG	6.11	118.71	112.60
1	B	224	GLU	CA-CB-CG	6.11	126.32	114.10
1	C	280	ASN	CA-CB-CG	6.11	118.71	112.60
1	G	56	ASP	CA-CB-CG	6.11	118.71	112.60
1	G	280	ASN	CA-CB-CG	6.11	118.71	112.60
1	A	142	LEU	N-CA-C	6.10	117.60	111.07
1	D	142	LEU	N-CA-C	6.10	117.60	111.07
1	E	302	GLY	O-C-N	-6.10	116.33	122.19
1	D	302	GLY	O-C-N	-6.10	116.34	122.19
1	C	206	ARG	CA-C-O	6.09	126.98	119.79
1	D	87	HIS	CB-CG-CD2	-6.09	123.28	131.20
1	F	142	LEU	N-CA-C	6.09	117.59	111.07
1	H	142	LEU	N-CA-C	6.09	117.58	111.07
1	F	56	ASP	CA-CB-CG	6.09	118.69	112.60
1	H	56	ASP	CA-CB-CG	6.09	118.69	112.60
1	E	142	LEU	N-CA-C	6.08	117.58	111.07
1	I	142	LEU	N-CA-C	6.08	117.58	111.07
1	I	302	GLY	O-C-N	-6.08	116.35	122.19
1	C	142	LEU	N-CA-C	6.07	117.57	111.07
1	G	142	LEU	N-CA-C	6.07	117.57	111.07
1	J	142	LEU	N-CA-C	6.07	117.57	111.07
1	B	142	LEU	N-CA-C	6.07	117.56	111.07
1	C	56	ASP	CA-CB-CG	6.07	118.67	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	344	SER	CA-C-N	6.06	128.32	120.56
1	A	344	SER	C-N-CA	6.06	128.32	120.56
1	A	302	GLY	O-C-N	-6.05	116.38	122.19
1	H	344	SER	CA-C-N	6.05	128.31	120.56
1	H	344	SER	C-N-CA	6.05	128.31	120.56
1	F	302	GLY	O-C-N	-6.04	116.39	122.19
1	H	302	GLY	O-C-N	-6.04	116.39	122.19
1	D	344	SER	CA-C-N	6.03	128.28	120.56
1	D	344	SER	C-N-CA	6.03	128.28	120.56
1	I	344	SER	CA-C-N	6.03	128.28	120.56
1	I	344	SER	C-N-CA	6.03	128.28	120.56
1	F	344	SER	CA-C-N	6.02	128.27	120.56
1	F	344	SER	C-N-CA	6.02	128.27	120.56
1	E	344	SER	CA-C-N	6.02	128.27	120.56
1	E	344	SER	C-N-CA	6.02	128.27	120.56
1	B	340	TRP	CD2-CE2-CZ2	-6.02	116.38	122.40
1	F	191	LYS	CA-C-O	-6.02	114.50	120.70
1	J	344	SER	CA-C-N	6.02	128.26	120.56
1	J	344	SER	C-N-CA	6.02	128.26	120.56
1	A	202	THR	CA-CB-OG1	-6.01	100.58	109.60
1	F	202	THR	CA-CB-OG1	-6.01	100.59	109.60
1	C	202	THR	CA-CB-OG1	-6.01	100.59	109.60
1	I	191	LYS	CA-C-O	-6.01	114.51	120.70
1	C	344	SER	CA-C-N	6.01	128.25	120.56
1	C	344	SER	C-N-CA	6.01	128.25	120.56
1	H	202	THR	CA-CB-OG1	-6.00	100.59	109.60
1	J	202	THR	CA-CB-OG1	-6.00	100.59	109.60
1	C	191	LYS	CA-C-O	-6.00	114.52	120.70
1	J	340	TRP	CD2-CE2-CZ2	-6.00	116.40	122.40
1	G	202	THR	CA-CB-OG1	-6.00	100.60	109.60
1	F	340	TRP	CD2-CE2-CZ2	-6.00	116.40	122.40
1	G	191	LYS	CA-C-O	-6.00	114.52	120.70
1	H	340	TRP	CD2-CE2-CZ2	-6.00	116.40	122.40
1	E	202	THR	CA-CB-OG1	-6.00	100.61	109.60
1	D	202	THR	CA-CB-OG1	-5.99	100.61	109.60
1	J	337	TYR	N-CA-C	5.99	120.29	112.92
1	F	337	TYR	N-CA-C	5.99	120.29	112.92
1	G	337	TYR	N-CA-C	5.99	120.29	112.92
1	I	202	THR	CA-CB-OG1	-5.99	100.62	109.60
1	B	344	SER	CA-C-N	5.99	128.22	120.56
1	B	344	SER	C-N-CA	5.99	128.22	120.56
1	E	191	LYS	CA-C-O	-5.99	114.53	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	340	TRP	CD2-CE2-CZ2	-5.99	116.41	122.40
1	G	344	SER	CA-C-N	5.99	128.22	120.56
1	G	344	SER	C-N-CA	5.99	128.22	120.56
1	A	191	LYS	CA-C-O	-5.98	114.54	120.70
1	E	337	TYR	N-CA-C	5.98	120.28	112.92
1	D	337	TYR	N-CA-C	5.98	120.27	112.92
1	H	337	TYR	N-CA-C	5.98	120.27	112.92
1	A	337	TYR	N-CA-C	5.97	120.27	112.92
1	B	202	THR	CA-CB-OG1	-5.97	100.64	109.60
1	D	192	ILE	CA-CB-CG1	5.97	120.55	110.40
1	D	340	TRP	CD2-CE2-CZ2	-5.97	116.43	122.40
1	J	191	LYS	CA-C-O	-5.97	114.55	120.70
1	A	192	ILE	CA-CB-CG1	5.97	120.55	110.40
1	I	337	TYR	N-CA-C	5.97	120.26	112.92
1	B	337	TYR	N-CA-C	5.97	120.26	112.92
1	G	187	ASP	N-CA-C	5.97	117.79	111.28
1	C	192	ILE	CA-CB-CG1	5.97	120.55	110.40
1	C	337	TYR	N-CA-C	5.96	120.26	112.92
1	H	277	THR	CA-CB-CG2	5.96	120.64	110.50
1	C	277	THR	CA-CB-CG2	5.96	120.64	110.50
1	G	340	TRP	CD2-CE2-CZ2	-5.96	116.44	122.40
1	J	277	THR	CA-CB-CG2	5.96	120.64	110.50
1	B	191	LYS	CA-C-O	-5.96	114.56	120.70
1	E	192	ILE	CA-CB-CG1	5.96	120.53	110.40
1	F	187	ASP	N-CA-C	5.96	117.78	111.28
1	G	192	ILE	CA-CB-CG1	5.96	120.53	110.40
1	H	191	LYS	CA-C-O	-5.96	114.56	120.70
1	G	277	THR	CA-CB-CG2	5.96	120.63	110.50
1	A	277	THR	CA-CB-CG2	5.96	120.63	110.50
1	D	277	THR	CA-CB-CG2	5.96	120.62	110.50
1	F	192	ILE	CA-CB-CG1	5.96	120.53	110.40
1	F	277	THR	CA-CB-CG2	5.96	120.63	110.50
1	H	192	ILE	CA-CB-CG1	5.96	120.53	110.40
1	I	277	THR	CA-CB-CG2	5.96	120.63	110.50
1	E	277	THR	CA-CB-CG2	5.95	120.62	110.50
1	I	187	ASP	N-CA-C	5.95	117.77	111.28
1	I	192	ILE	CA-CB-CG1	5.95	120.52	110.40
1	I	340	TRP	CD2-CE2-CZ2	-5.95	116.45	122.40
1	J	192	ILE	CA-CB-CG1	5.95	120.52	110.40
1	B	277	THR	CA-CB-CG2	5.95	120.62	110.50
1	C	340	TRP	CD2-CE2-CZ2	-5.95	116.45	122.40
1	A	340	TRP	CD2-CE2-CZ2	-5.95	116.45	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	191	LYS	CA-C-O	-5.95	114.57	120.70
1	B	192	ILE	CA-CB-CG1	5.95	120.51	110.40
1	A	187	ASP	N-CA-C	5.94	117.76	111.28
1	B	363	ASP	O-C-N	5.94	128.19	122.07
1	E	187	ASP	N-CA-C	5.94	117.75	111.28
1	H	363	ASP	O-C-N	5.94	128.19	122.07
1	J	187	ASP	N-CA-C	5.94	117.75	111.28
1	H	371	HIS	CB-CG-CD2	-5.93	123.49	131.20
1	C	187	ASP	N-CA-C	5.93	117.74	111.28
1	G	363	ASP	O-C-N	5.93	128.17	122.07
1	B	274	ILE	N-CA-CB	-5.92	101.45	111.23
1	E	363	ASP	O-C-N	5.92	128.17	122.07
1	F	363	ASP	O-C-N	5.92	128.17	122.07
1	D	274	ILE	N-CA-CB	-5.92	101.46	111.23
1	I	363	ASP	O-C-N	5.92	128.17	122.07
1	J	363	ASP	O-C-N	5.92	128.17	122.07
1	A	274	ILE	N-CA-CB	-5.92	101.47	111.23
1	C	274	ILE	N-CA-CB	-5.92	101.47	111.23
1	G	274	ILE	N-CA-CB	-5.92	101.47	111.23
1	B	371	HIS	CB-CG-CD2	-5.92	123.51	131.20
1	E	274	ILE	N-CA-CB	-5.92	101.47	111.23
1	J	274	ILE	N-CA-CB	-5.92	101.47	111.23
1	I	274	ILE	N-CA-CB	-5.91	101.47	111.23
1	D	363	ASP	O-C-N	5.91	128.16	122.07
1	F	274	ILE	N-CA-CB	-5.91	101.48	111.23
1	G	371	HIS	CB-CG-CD2	-5.91	123.52	131.20
1	B	187	ASP	N-CA-C	5.91	117.72	111.28
1	C	363	ASP	O-C-N	5.91	128.16	122.07
1	H	274	ILE	N-CA-CB	-5.91	101.48	111.23
1	J	371	HIS	CB-CG-CD2	-5.91	123.52	131.20
1	D	187	ASP	N-CA-C	5.91	117.72	111.28
1	A	371	HIS	CB-CG-CD2	-5.90	123.53	131.20
1	C	371	HIS	CB-CG-CD2	-5.90	123.53	131.20
1	I	371	HIS	CB-CG-CD2	-5.90	123.53	131.20
1	E	371	HIS	CB-CG-CD2	-5.90	123.53	131.20
1	F	371	HIS	CB-CG-CD2	-5.90	123.53	131.20
1	H	25	ASP	O-C-N	-5.89	115.72	122.09
1	D	371	HIS	CB-CG-CD2	-5.89	123.54	131.20
1	J	25	ASP	O-C-N	-5.89	115.73	122.09
1	A	363	ASP	O-C-N	5.89	128.13	122.07
1	H	187	ASP	N-CA-C	5.89	117.70	111.28
1	A	25	ASP	O-C-N	-5.89	115.73	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	102	PRO	CB-CA-C	5.88	118.68	110.98
1	I	102	PRO	CB-CA-C	5.87	118.67	110.98
1	D	25	ASP	O-C-N	-5.87	115.75	122.09
1	J	53	TYR	N-CA-C	-5.87	100.72	110.17
1	J	102	PRO	CB-CA-C	5.87	118.67	110.98
1	C	25	ASP	O-C-N	-5.86	115.76	122.09
1	E	102	PRO	CB-CA-C	5.86	118.66	110.98
1	E	25	ASP	O-C-N	-5.86	115.76	122.09
1	F	53	TYR	N-CA-C	-5.86	100.74	110.17
1	D	102	PRO	CB-CA-C	5.85	118.65	110.98
1	B	102	PRO	CB-CA-C	5.85	118.65	110.98
1	F	25	ASP	O-C-N	-5.85	115.77	122.09
1	G	25	ASP	O-C-N	-5.85	115.77	122.09
1	H	102	PRO	CB-CA-C	5.85	118.65	110.98
1	A	102	PRO	CB-CA-C	5.85	118.64	110.98
1	F	102	PRO	CB-CA-C	5.85	118.64	110.98
1	A	53	TYR	N-CA-C	-5.85	100.76	110.17
1	B	25	ASP	O-C-N	-5.84	115.78	122.09
1	C	53	TYR	N-CA-C	-5.84	100.77	110.17
1	C	102	PRO	CB-CA-C	5.84	118.63	110.98
1	D	53	TYR	N-CA-C	-5.84	100.77	110.17
1	E	53	TYR	N-CA-C	-5.84	100.77	110.17
1	A	254	ARG	CB-CG-CD	-5.84	97.87	111.30
1	B	53	TYR	N-CA-C	-5.84	100.77	110.17
1	I	25	ASP	O-C-N	-5.84	115.79	122.09
1	G	53	TYR	N-CA-C	-5.83	100.78	110.17
1	J	254	ARG	CB-CG-CD	-5.83	97.89	111.30
1	F	254	ARG	CB-CG-CD	-5.83	97.89	111.30
1	H	53	TYR	N-CA-C	-5.83	100.78	110.17
1	H	254	ARG	CB-CG-CD	-5.83	97.89	111.30
1	C	254	ARG	CB-CG-CD	-5.83	97.90	111.30
1	D	254	ARG	CB-CG-CD	-5.83	97.89	111.30
1	E	254	ARG	CB-CG-CD	-5.83	97.90	111.30
1	G	254	ARG	CB-CG-CD	-5.83	97.90	111.30
1	J	247	VAL	N-CA-C	5.83	117.83	108.85
1	F	247	VAL	N-CA-C	5.83	117.82	108.85
1	I	53	TYR	N-CA-C	-5.83	100.79	110.17
1	B	254	ARG	CB-CG-CD	-5.83	97.90	111.30
1	I	254	ARG	CB-CG-CD	-5.82	97.91	111.30
1	H	247	VAL	N-CA-C	5.82	117.81	108.85
1	B	256	ARG	CA-CB-CG	5.81	125.73	114.10
1	I	247	VAL	N-CA-C	5.81	117.80	108.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	274	ILE	CA-CB-CG1	-5.81	100.52	110.40
1	E	247	VAL	N-CA-C	5.81	117.80	108.85
1	B	247	VAL	N-CA-C	5.81	117.79	108.85
1	C	274	ILE	CA-CB-CG1	-5.81	100.53	110.40
1	J	274	ILE	CA-CB-CG1	-5.81	100.53	110.40
1	A	247	VAL	N-CA-C	5.80	117.79	108.85
1	G	274	ILE	CA-CB-CG1	-5.80	100.53	110.40
1	E	274	ILE	CA-CB-CG1	-5.80	100.54	110.40
1	F	274	ILE	CA-CB-CG1	-5.80	100.54	110.40
1	I	256	ARG	CA-CB-CG	5.80	125.70	114.10
1	D	274	ILE	CA-CB-CG1	-5.80	100.54	110.40
1	B	274	ILE	CA-CB-CG1	-5.80	100.54	110.40
1	F	256	ARG	CA-CB-CG	5.80	125.70	114.10
1	A	274	ILE	CA-CB-CG1	-5.79	100.55	110.40
1	G	256	ARG	CA-CB-CG	5.79	125.69	114.10
1	G	247	VAL	N-CA-C	5.79	117.77	108.85
1	D	247	VAL	N-CA-C	5.79	117.76	108.85
1	H	274	ILE	CA-CB-CG1	-5.79	100.56	110.40
1	A	256	ARG	CA-CB-CG	5.79	125.67	114.10
1	C	247	VAL	N-CA-C	5.79	117.76	108.85
1	D	256	ARG	CA-CB-CG	5.79	125.67	114.10
1	E	256	ARG	CA-CB-CG	5.79	125.67	114.10
1	C	256	ARG	CA-CB-CG	5.78	125.65	114.10
1	H	256	ARG	CA-CB-CG	5.77	125.65	114.10
1	J	256	ARG	CA-CB-CG	5.77	125.65	114.10
1	G	31	PHE	CA-C-N	5.77	126.11	119.93
1	G	31	PHE	C-N-CA	5.77	126.11	119.93
1	A	248	ILE	N-CA-C	-5.77	99.96	108.85
1	D	248	ILE	N-CA-C	-5.77	99.97	108.85
1	C	248	ILE	N-CA-C	-5.77	99.97	108.85
1	I	121	GLN	CG-CD-NE2	-5.77	107.75	116.40
1	I	248	ILE	N-CA-C	-5.76	99.97	108.85
1	F	248	ILE	N-CA-C	-5.76	99.97	108.85
1	C	31	PHE	CA-C-N	5.76	126.09	119.93
1	C	31	PHE	C-N-CA	5.76	126.09	119.93
1	E	248	ILE	N-CA-C	-5.76	99.98	108.85
1	F	31	PHE	CA-C-N	5.76	126.09	119.93
1	F	31	PHE	C-N-CA	5.76	126.09	119.93
1	F	124	PHE	N-CA-C	5.76	118.42	111.40
1	A	124	PHE	N-CA-C	5.75	118.42	111.40
1	C	121	GLN	CG-CD-NE2	-5.75	107.77	116.40
1	D	121	GLN	CG-CD-NE2	-5.75	107.77	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	31	PHE	CA-C-N	5.75	126.08	119.93
1	A	31	PHE	C-N-CA	5.75	126.08	119.93
1	J	121	GLN	CG-CD-NE2	-5.75	107.77	116.40
1	J	31	PHE	CA-C-N	5.75	126.08	119.93
1	J	31	PHE	C-N-CA	5.75	126.08	119.93
1	B	248	ILE	N-CA-C	-5.75	100.00	108.85
1	C	124	PHE	N-CA-C	5.75	118.41	111.40
1	G	121	GLN	CG-CD-NE2	-5.75	107.78	116.40
1	G	248	ILE	N-CA-C	-5.75	100.00	108.85
1	H	235	SER	N-CA-CB	-5.75	101.64	110.44
1	F	121	GLN	CG-CD-NE2	-5.75	107.78	116.40
1	E	31	PHE	CA-C-N	5.74	126.08	119.93
1	E	31	PHE	C-N-CA	5.74	126.08	119.93
1	E	121	GLN	CG-CD-NE2	-5.74	107.78	116.40
1	I	124	PHE	N-CA-C	5.74	118.41	111.40
1	E	124	PHE	N-CA-C	5.74	118.41	111.40
1	B	31	PHE	CA-C-N	5.74	126.07	119.93
1	B	31	PHE	C-N-CA	5.74	126.07	119.93
1	G	124	PHE	N-CA-C	5.74	118.40	111.40
1	A	121	GLN	CG-CD-NE2	-5.74	107.79	116.40
1	J	124	PHE	N-CA-C	5.74	118.40	111.40
1	J	248	ILE	N-CA-C	-5.74	100.01	108.85
1	B	121	GLN	CG-CD-NE2	-5.73	107.80	116.40
1	D	124	PHE	N-CA-C	5.73	118.39	111.40
1	H	124	PHE	N-CA-C	5.73	118.40	111.40
1	H	248	ILE	N-CA-C	-5.73	100.02	108.85
1	B	124	PHE	N-CA-C	5.73	118.39	111.40
1	I	370	VAL	N-CA-CB	5.73	120.45	110.65
1	C	171	LEU	CA-C-N	5.73	125.85	119.32
1	C	171	LEU	C-N-CA	5.73	125.85	119.32
1	D	31	PHE	CA-C-N	5.73	126.06	119.93
1	D	31	PHE	C-N-CA	5.73	126.06	119.93
1	I	31	PHE	CA-C-N	5.73	126.06	119.93
1	I	31	PHE	C-N-CA	5.73	126.06	119.93
1	J	370	VAL	N-CA-CB	5.73	120.44	110.65
1	A	235	SER	N-CA-CB	-5.73	101.68	110.44
1	C	370	VAL	N-CA-CB	5.72	120.43	110.65
1	G	171	LEU	CA-C-N	5.72	125.84	119.32
1	G	171	LEU	C-N-CA	5.72	125.84	119.32
1	E	370	VAL	N-CA-CB	5.72	120.43	110.65
1	H	370	VAL	N-CA-CB	5.72	120.42	110.65
1	B	370	VAL	N-CA-CB	5.71	120.42	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	370	VAL	N-CA-CB	5.71	120.42	110.65
1	G	370	VAL	N-CA-CB	5.71	120.42	110.65
1	A	171	LEU	CA-C-N	5.71	125.83	119.32
1	A	171	LEU	C-N-CA	5.71	125.83	119.32
1	H	31	PHE	CA-C-N	5.71	126.04	119.93
1	H	31	PHE	C-N-CA	5.71	126.04	119.93
1	H	121	GLN	CG-CD-NE2	-5.71	107.83	116.40
1	A	370	VAL	N-CA-CB	5.71	120.41	110.65
1	D	370	VAL	N-CA-CB	5.71	120.41	110.65
1	I	73	HIS	CB-CG-ND1	-5.71	114.14	122.70
1	B	73	HIS	CB-CG-ND1	-5.71	114.14	122.70
1	I	171	LEU	CA-C-N	5.71	125.83	119.32
1	I	171	LEU	C-N-CA	5.71	125.83	119.32
1	D	73	HIS	CB-CG-CD2	5.70	138.61	131.20
1	D	171	LEU	CA-C-N	5.70	125.82	119.32
1	D	171	LEU	C-N-CA	5.70	125.82	119.32
1	J	129	THR	CA-CB-OG1	5.70	118.15	109.60
1	B	129	THR	CA-CB-OG1	5.70	118.15	109.60
1	D	73	HIS	CB-CG-ND1	-5.70	114.15	122.70
1	C	73	HIS	CB-CG-ND1	-5.70	114.15	122.70
1	F	73	HIS	CB-CG-CD2	5.70	138.60	131.20
1	H	73	HIS	CB-CG-ND1	-5.70	114.16	122.70
1	C	73	HIS	CB-CG-CD2	5.69	138.60	131.20
1	F	73	HIS	CB-CG-ND1	-5.69	114.16	122.70
1	F	129	THR	CA-CB-OG1	5.69	118.14	109.60
1	J	73	HIS	CB-CG-ND1	-5.69	114.16	122.70
1	D	129	THR	CA-CB-OG1	5.69	118.14	109.60
1	E	171	LEU	CA-C-N	5.69	125.81	119.32
1	E	171	LEU	C-N-CA	5.69	125.81	119.32
1	G	129	THR	CA-CB-OG1	5.69	118.14	109.60
1	J	73	HIS	CB-CG-CD2	5.69	138.60	131.20
1	A	73	HIS	CB-CG-ND1	-5.69	114.17	122.70
1	E	73	HIS	CB-CG-ND1	-5.69	114.17	122.70
1	I	129	THR	CA-CB-OG1	5.69	118.13	109.60
1	I	73	HIS	CB-CG-CD2	5.68	138.59	131.20
1	B	171	LEU	CA-C-N	5.68	125.80	119.32
1	B	171	LEU	C-N-CA	5.68	125.80	119.32
1	E	73	HIS	CB-CG-CD2	5.68	138.59	131.20
1	G	30	VAL	O-C-N	-5.68	117.21	123.18
1	H	129	THR	CA-CB-OG1	5.68	118.12	109.60
1	E	129	THR	CA-CB-OG1	5.68	118.12	109.60
1	A	129	THR	CA-CB-OG1	5.68	118.12	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	73	HIS	CB-CG-CD2	5.68	138.58	131.20
1	J	171	LEU	CA-C-N	5.68	125.79	119.32
1	J	171	LEU	C-N-CA	5.68	125.79	119.32
1	G	73	HIS	CB-CG-ND1	-5.68	114.19	122.70
1	C	129	THR	CA-CB-OG1	5.67	118.10	109.60
1	B	30	VAL	O-C-N	-5.67	117.23	123.18
1	F	171	LEU	CA-C-N	5.66	125.78	119.32
1	F	171	LEU	C-N-CA	5.66	125.78	119.32
1	B	73	HIS	CB-CG-CD2	5.66	138.56	131.20
1	G	73	HIS	CB-CG-CD2	5.66	138.56	131.20
1	H	30	VAL	O-C-N	-5.66	117.24	123.18
1	A	73	HIS	CB-CG-CD2	5.66	138.55	131.20
1	E	30	VAL	O-C-N	-5.66	117.24	123.18
1	F	30	VAL	O-C-N	-5.66	117.24	123.18
1	J	30	VAL	O-C-N	-5.65	117.24	123.18
1	H	171	LEU	CA-C-N	5.65	125.76	119.32
1	H	171	LEU	C-N-CA	5.65	125.76	119.32
1	F	42	GLY	CA-C-N	5.65	132.14	121.97
1	F	42	GLY	C-N-CA	5.65	132.14	121.97
1	B	42	GLY	CA-C-N	5.64	132.13	121.97
1	B	42	GLY	C-N-CA	5.64	132.13	121.97
1	C	30	VAL	O-C-N	-5.64	117.25	123.18
1	H	42	GLY	CA-C-N	5.64	132.13	121.97
1	H	42	GLY	C-N-CA	5.64	132.13	121.97
1	D	30	VAL	O-C-N	-5.64	117.25	123.18
1	E	42	GLY	CA-C-N	5.64	132.12	121.97
1	E	42	GLY	C-N-CA	5.64	132.12	121.97
1	A	30	VAL	O-C-N	-5.64	117.26	123.18
1	C	42	GLY	CA-C-N	5.64	132.12	121.97
1	C	42	GLY	C-N-CA	5.64	132.12	121.97
1	I	30	VAL	O-C-N	-5.64	117.26	123.18
1	J	42	GLY	CA-C-N	5.64	132.12	121.97
1	J	42	GLY	C-N-CA	5.64	132.12	121.97
1	H	352	PHE	CA-CB-CG	-5.63	108.17	113.80
1	G	42	GLY	CA-C-N	5.63	132.10	121.97
1	G	42	GLY	C-N-CA	5.63	132.10	121.97
1	A	113	LYS	CB-CA-C	-5.62	101.50	110.84
1	G	352	PHE	CA-CB-CG	-5.62	108.18	113.80
1	J	352	PHE	CA-CB-CG	-5.62	108.18	113.80
1	B	352	PHE	CA-CB-CG	-5.62	108.18	113.80
1	G	192	ILE	CA-CB-CG2	-5.62	100.94	110.50
1	D	42	GLY	CA-C-N	5.62	132.09	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	42	GLY	C-N-CA	5.62	132.09	121.97
1	F	113	LYS	CB-CA-C	-5.62	101.51	110.84
1	G	113	LYS	CB-CA-C	-5.62	101.51	110.84
1	I	42	GLY	CA-C-N	5.62	132.08	121.97
1	I	42	GLY	C-N-CA	5.62	132.08	121.97
1	I	352	PHE	CA-CB-CG	-5.62	108.18	113.80
1	A	42	GLY	CA-C-N	5.62	132.08	121.97
1	A	42	GLY	C-N-CA	5.62	132.08	121.97
1	D	352	PHE	CA-CB-CG	-5.62	108.19	113.80
1	A	192	ILE	CA-CB-CG2	-5.61	100.96	110.50
1	E	113	LYS	CB-CA-C	-5.61	101.53	110.84
1	I	113	LYS	CB-CA-C	-5.61	101.53	110.84
1	J	113	LYS	CB-CA-C	-5.61	101.53	110.84
1	B	113	LYS	CB-CA-C	-5.61	101.53	110.84
1	B	192	ILE	CA-CB-CG2	-5.61	100.97	110.50
1	E	192	ILE	CA-CB-CG2	-5.61	100.97	110.50
1	E	352	PHE	CA-CB-CG	-5.60	108.20	113.80
1	H	192	ILE	CA-CB-CG2	-5.60	100.97	110.50
1	I	192	ILE	CA-CB-CG2	-5.60	100.98	110.50
1	C	113	LYS	CB-CA-C	-5.60	101.55	110.84
1	D	192	ILE	CA-CB-CG2	-5.60	100.98	110.50
1	J	192	ILE	CA-CB-CG2	-5.60	100.99	110.50
1	F	352	PHE	CA-CB-CG	-5.59	108.20	113.80
1	H	113	LYS	CB-CA-C	-5.59	101.55	110.84
1	D	113	LYS	CB-CA-C	-5.59	101.56	110.84
1	F	192	ILE	CA-CB-CG2	-5.59	101.00	110.50
1	C	192	ILE	CA-CB-CG2	-5.59	101.00	110.50
1	A	352	PHE	CA-CB-CG	-5.58	108.22	113.80
1	C	352	PHE	CA-CB-CG	-5.58	108.22	113.80
1	B	105	LEU	CA-C-O	-5.58	114.61	120.80
1	D	105	LEU	CA-C-O	-5.57	114.62	120.80
1	C	126	THR	CA-C-O	-5.56	114.07	120.24
1	I	105	LEU	CA-C-O	-5.56	114.63	120.80
1	F	105	LEU	CA-C-O	-5.55	114.64	120.80
1	G	105	LEU	CA-C-O	-5.55	114.63	120.80
1	H	105	LEU	CA-C-O	-5.55	114.64	120.80
1	E	105	LEU	CA-C-O	-5.55	114.64	120.80
1	I	126	THR	CA-C-O	-5.55	114.08	120.24
1	A	105	LEU	CA-C-O	-5.55	114.64	120.80
1	A	126	THR	CA-C-O	-5.55	114.08	120.24
1	J	126	THR	CA-C-O	-5.55	114.08	120.24
1	B	126	THR	CA-C-O	-5.55	114.08	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	278	THR	O-C-N	-5.54	116.32	122.09
1	C	105	LEU	CA-C-O	-5.54	114.65	120.80
1	G	126	THR	CA-C-O	-5.54	114.09	120.24
1	G	354	GLN	N-CA-C	-5.54	96.22	107.41
1	E	126	THR	CA-C-O	-5.54	114.09	120.24
1	H	354	GLN	N-CA-C	-5.54	96.22	107.41
1	B	354	GLN	N-CA-C	-5.54	96.23	107.41
1	F	126	THR	CA-C-O	-5.54	114.10	120.24
1	G	278	THR	O-C-N	-5.53	116.33	122.09
1	H	278	THR	O-C-N	-5.53	116.33	122.09
1	I	354	GLN	N-CA-C	-5.53	96.23	107.41
1	D	354	GLN	N-CA-C	-5.53	96.23	107.41
1	J	278	THR	O-C-N	-5.53	116.34	122.09
1	F	278	THR	O-C-N	-5.53	116.34	122.09
1	E	354	GLN	N-CA-C	-5.53	96.25	107.41
1	A	354	GLN	N-CA-C	-5.52	96.25	107.41
1	E	278	THR	O-C-N	-5.52	116.35	122.09
1	F	354	GLN	N-CA-C	-5.52	96.26	107.41
1	J	105	LEU	CA-C-O	-5.52	114.67	120.80
1	C	278	THR	O-C-N	-5.52	116.35	122.09
1	C	354	GLN	N-CA-C	-5.52	96.26	107.41
1	D	126	THR	CA-C-O	-5.52	114.11	120.24
1	H	126	THR	CA-C-O	-5.52	114.11	120.24
1	I	278	THR	O-C-N	-5.52	116.35	122.09
1	I	123	MET	CA-C-O	-5.51	115.00	120.90
1	D	278	THR	O-C-N	-5.51	116.36	122.09
1	A	278	THR	O-C-N	-5.51	116.36	122.09
1	D	123	MET	CA-C-O	-5.51	115.01	120.90
1	J	354	GLN	N-CA-C	-5.51	96.29	107.41
1	J	123	MET	CA-C-O	-5.50	115.02	120.90
1	A	123	MET	CA-C-O	-5.49	115.03	120.90
1	E	123	MET	CA-C-O	-5.48	115.04	120.90
1	J	115	ASN	CA-CB-CG	-5.48	107.12	112.60
1	G	42	GLY	O-C-N	5.47	129.81	122.70
1	C	123	MET	CA-C-O	-5.47	115.05	120.90
1	H	123	MET	CA-C-O	-5.47	115.05	120.90
1	J	42	GLY	O-C-N	5.47	129.81	122.70
1	G	123	MET	CA-C-O	-5.46	115.05	120.90
1	A	42	GLY	O-C-N	5.46	129.80	122.70
1	G	115	ASN	CA-CB-CG	-5.46	107.14	112.60
1	C	116	ARG	CG-CD-NE	5.46	124.01	112.00
1	F	42	GLY	O-C-N	5.46	129.80	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	115	ASN	CA-CB-CG	-5.46	107.14	112.60
1	B	123	MET	CA-C-O	-5.46	115.06	120.90
1	F	123	MET	CA-C-O	-5.46	115.06	120.90
1	E	115	ASN	CA-CB-CG	-5.45	107.15	112.60
1	H	116	ARG	CG-CD-NE	5.45	123.99	112.00
1	F	235	SER	N-CA-CB	-5.45	101.59	110.42
1	D	115	ASN	CA-CB-CG	-5.45	107.15	112.60
1	I	42	GLY	O-C-N	5.45	129.78	122.70
1	I	115	ASN	CA-CB-CG	-5.45	107.15	112.60
1	G	116	ARG	CG-CD-NE	5.44	123.98	112.00
1	A	115	ASN	CA-CB-CG	-5.44	107.16	112.60
1	E	116	ARG	CG-CD-NE	5.44	123.97	112.00
1	H	115	ASN	CA-CB-CG	-5.44	107.16	112.60
1	B	116	ARG	CG-CD-NE	5.44	123.97	112.00
1	D	360	GLN	OE1-CD-NE2	-5.44	117.16	122.60
1	J	360	GLN	OE1-CD-NE2	-5.44	117.16	122.60
1	D	116	ARG	CG-CD-NE	5.44	123.97	112.00
1	I	360	GLN	OE1-CD-NE2	-5.44	117.16	122.60
1	A	360	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	C	360	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	D	42	GLY	O-C-N	5.43	129.76	122.70
1	F	116	ARG	CG-CD-NE	5.43	123.95	112.00
1	E	360	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	E	42	GLY	O-C-N	5.43	129.76	122.70
1	F	360	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	J	116	ARG	CG-CD-NE	5.43	123.94	112.00
1	H	360	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	A	116	ARG	CG-CD-NE	5.42	123.93	112.00
1	F	176	LEU	CD1-CG-CD2	-5.42	98.87	110.80
1	G	235	SER	N-CA-CB	-5.42	101.64	110.42
1	I	116	ARG	CG-CD-NE	5.42	123.93	112.00
1	C	42	GLY	O-C-N	5.42	129.75	122.70
1	J	205	GLU	CA-CB-CG	5.42	124.94	114.10
1	J	235	SER	N-CA-CB	-5.42	101.64	110.42
1	F	115	ASN	CA-CB-CG	-5.42	107.18	112.60
1	I	147	ARG	N-CA-CB	-5.42	102.61	111.66
1	B	147	ARG	N-CA-CB	-5.42	102.61	111.66
1	C	147	ARG	N-CA-CB	-5.42	102.61	111.66
1	G	176	LEU	CD1-CG-CD2	-5.42	98.88	110.80
1	H	42	GLY	O-C-N	5.42	129.74	122.70
1	B	176	LEU	CD1-CG-CD2	-5.42	98.89	110.80
1	G	360	GLN	OE1-CD-NE2	-5.41	117.19	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	235	SER	N-CA-CB	-5.41	101.65	110.42
1	E	176	LEU	CD1-CG-CD2	-5.41	98.89	110.80
1	F	147	ARG	N-CA-CB	-5.41	102.62	111.66
1	A	147	ARG	N-CA-CB	-5.41	102.62	111.66
1	B	205	GLU	CA-CB-CG	5.41	124.92	114.10
1	B	360	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	C	235	SER	N-CA-CB	-5.41	101.66	110.42
1	E	235	SER	N-CA-CB	-5.41	101.66	110.42
1	C	115	ASN	CA-CB-CG	-5.41	107.19	112.60
1	E	147	ARG	N-CA-CB	-5.41	102.63	111.66
1	H	147	ARG	N-CA-CB	-5.41	102.63	111.66
1	H	176	LEU	CD1-CG-CD2	-5.41	98.90	110.80
1	J	176	LEU	CD1-CG-CD2	-5.41	98.90	110.80
1	A	205	GLU	CA-CB-CG	5.41	124.92	114.10
1	C	176	LEU	CD1-CG-CD2	-5.41	98.90	110.80
1	G	147	ARG	N-CA-CB	-5.41	102.63	111.66
1	G	205	GLU	CA-CB-CG	5.41	124.91	114.10
1	D	176	LEU	CD1-CG-CD2	-5.41	98.91	110.80
1	I	176	LEU	CD1-CG-CD2	-5.41	98.91	110.80
1	J	147	ARG	N-CA-CB	-5.41	102.63	111.66
1	B	235	SER	N-CA-CB	-5.40	101.67	110.42
1	A	237	GLU	CA-CB-CG	5.40	124.90	114.10
1	B	42	GLY	O-C-N	5.40	129.72	122.70
1	A	176	LEU	CD1-CG-CD2	-5.40	98.92	110.80
1	B	237	GLU	CA-CB-CG	5.40	124.90	114.10
1	C	237	GLU	CA-CB-CG	5.40	124.90	114.10
1	B	147	ARG	CA-CB-CG	5.40	124.90	114.10
1	F	237	GLU	CA-CB-CG	5.40	124.89	114.10
1	J	147	ARG	CA-CB-CG	5.40	124.90	114.10
1	J	237	GLU	CA-CB-CG	5.40	124.89	114.10
1	C	147	ARG	CA-CB-CG	5.40	124.89	114.10
1	D	147	ARG	N-CA-CB	-5.40	102.65	111.66
1	E	205	GLU	CA-CB-CG	5.40	124.89	114.10
1	H	147	ARG	CA-CB-CG	5.40	124.89	114.10
1	E	237	GLU	CA-CB-CG	5.39	124.89	114.10
1	I	237	GLU	CA-CB-CG	5.39	124.89	114.10
1	C	205	GLU	CA-CB-CG	5.39	124.89	114.10
1	G	237	GLU	CA-CB-CG	5.39	124.88	114.10
1	H	205	GLU	CA-CB-CG	5.39	124.89	114.10
1	I	147	ARG	CA-CB-CG	5.39	124.88	114.10
1	A	147	ARG	CA-CB-CG	5.39	124.88	114.10
1	E	147	ARG	CA-CB-CG	5.39	124.88	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	205	GLU	CA-CB-CG	5.39	124.88	114.10
1	D	147	ARG	CA-CB-CG	5.39	124.87	114.10
1	D	235	SER	N-CA-CB	-5.39	101.69	110.42
1	H	237	GLU	CA-CB-CG	5.39	124.88	114.10
1	D	237	GLU	CA-CB-CG	5.38	124.87	114.10
1	F	147	ARG	CA-CB-CG	5.38	124.87	114.10
1	I	205	GLU	CA-CB-CG	5.38	124.87	114.10
1	G	147	ARG	CA-CB-CG	5.38	124.86	114.10
1	G	40	HIS	N-CA-CB	5.38	119.58	110.49
1	I	40	HIS	N-CA-CB	5.38	119.58	110.49
1	D	205	GLU	CA-CB-CG	5.38	124.85	114.10
1	E	40	HIS	N-CA-CB	5.36	119.55	110.49
1	F	40	HIS	N-CA-CB	5.36	119.55	110.49
1	J	40	HIS	N-CA-CB	5.36	119.55	110.49
1	B	40	HIS	N-CA-CB	5.36	119.54	110.49
1	H	40	HIS	N-CA-CB	5.36	119.54	110.49
1	B	47	MET	CA-CB-CG	5.36	124.81	114.10
1	D	47	MET	CA-CB-CG	5.36	124.81	114.10
1	J	129	THR	CA-C-N	5.36	124.99	119.05
1	J	129	THR	C-N-CA	5.36	124.99	119.05
1	A	40	HIS	N-CA-CB	5.35	119.54	110.49
1	C	40	HIS	N-CA-CB	5.35	119.53	110.49
1	E	47	MET	CA-CB-CG	5.35	124.80	114.10
1	B	31	PHE	CA-CB-CG	5.35	119.15	113.80
1	C	47	MET	CA-CB-CG	5.35	124.79	114.10
1	I	47	MET	CA-CB-CG	5.35	124.80	114.10
1	F	129	THR	CA-C-N	5.34	124.98	119.05
1	F	129	THR	C-N-CA	5.34	124.98	119.05
1	J	47	MET	CA-CB-CG	5.34	124.79	114.10
1	G	47	MET	CA-CB-CG	5.34	124.78	114.10
1	D	40	HIS	N-CA-CB	5.34	119.51	110.49
1	A	47	MET	CA-CB-CG	5.34	124.78	114.10
1	F	47	MET	CA-CB-CG	5.34	124.77	114.10
1	H	47	MET	CA-CB-CG	5.34	124.77	114.10
1	D	129	THR	CA-C-N	5.33	124.97	119.05
1	D	129	THR	C-N-CA	5.33	124.97	119.05
1	G	31	PHE	CA-CB-CG	5.33	119.13	113.80
1	J	31	PHE	CA-CB-CG	5.33	119.13	113.80
1	E	129	THR	CA-C-N	5.33	124.96	119.05
1	E	129	THR	C-N-CA	5.33	124.96	119.05
1	E	31	PHE	CA-CB-CG	5.33	119.12	113.80
1	H	31	PHE	CA-CB-CG	5.32	119.12	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	31	PHE	CA-CB-CG	5.32	119.12	113.80
1	H	137	GLN	N-CA-C	5.32	117.16	111.36
1	F	31	PHE	CA-CB-CG	5.32	119.12	113.80
1	I	31	PHE	CA-CB-CG	5.32	119.12	113.80
1	I	86	TRP	CE2-CD2-CG	-5.32	100.82	107.20
1	B	137	GLN	N-CA-C	5.32	117.15	111.36
1	I	129	THR	CA-C-N	5.32	124.95	119.05
1	I	129	THR	C-N-CA	5.32	124.95	119.05
1	C	31	PHE	CA-CB-CG	5.31	119.11	113.80
1	A	137	GLN	N-CA-C	5.31	117.15	111.36
1	F	137	GLN	N-CA-C	5.31	117.15	111.36
1	C	137	GLN	N-CA-C	5.31	117.15	111.36
1	C	86	TRP	CE2-CD2-CG	-5.31	100.83	107.20
1	B	129	THR	CA-C-N	5.31	124.94	119.05
1	B	129	THR	C-N-CA	5.31	124.94	119.05
1	A	129	THR	CA-C-N	5.30	124.94	119.05
1	A	129	THR	C-N-CA	5.30	124.94	119.05
1	C	129	THR	CA-C-N	5.30	124.94	119.05
1	C	129	THR	C-N-CA	5.30	124.94	119.05
1	D	31	PHE	CA-CB-CG	5.30	119.10	113.80
1	G	137	GLN	N-CA-C	5.30	117.14	111.36
1	J	86	TRP	CE2-CD2-CG	-5.30	100.84	107.20
1	E	137	GLN	N-CA-C	5.30	117.14	111.36
1	I	137	GLN	N-CA-C	5.30	117.14	111.36
1	H	129	THR	CA-C-N	5.30	124.93	119.05
1	H	129	THR	C-N-CA	5.30	124.93	119.05
1	A	92	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	D	137	GLN	N-CA-C	5.29	117.13	111.36
1	E	86	TRP	CE2-CD2-CG	-5.29	100.85	107.20
1	A	86	TRP	CE2-CD2-CG	-5.28	100.86	107.20
1	G	129	THR	CA-C-N	5.28	124.91	119.05
1	G	129	THR	C-N-CA	5.28	124.91	119.05
1	B	86	TRP	CE2-CD2-CG	-5.28	100.87	107.20
1	F	86	TRP	CE2-CD2-CG	-5.28	100.87	107.20
1	J	137	GLN	N-CA-C	5.28	117.11	111.36
1	C	48	GLY	CA-C-O	-5.27	116.06	122.75
1	D	86	TRP	CE2-CD2-CG	-5.27	100.87	107.20
1	H	92	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	B	92	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	G	86	TRP	CE2-CD2-CG	-5.27	100.88	107.20
1	H	86	TRP	CE2-CD2-CG	-5.27	100.88	107.20
1	I	195	GLU	N-CA-C	-5.26	105.71	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	372	ARG	N-CA-C	-5.26	104.47	112.04
1	H	195	GLU	N-CA-C	-5.26	105.72	111.82
1	C	92	ASN	OD1-CG-ND2	-5.25	117.34	122.60
1	A	195	GLU	N-CA-C	-5.25	105.73	111.82
1	F	195	GLU	N-CA-C	-5.25	105.73	111.82
1	F	372	ARG	N-CA-C	-5.24	104.49	112.04
1	A	372	ARG	N-CA-C	-5.24	104.49	112.04
1	D	79	TRP	CE2-CD2-CG	-5.24	100.91	107.20
1	G	195	GLU	N-CA-C	-5.24	105.74	111.82
1	C	79	TRP	CE2-CD2-CG	-5.24	100.91	107.20
1	H	372	ARG	N-CA-C	-5.24	104.50	112.04
1	D	195	GLU	N-CA-C	-5.24	105.74	111.82
1	J	79	TRP	CE2-CD2-CG	-5.24	100.91	107.20
1	E	195	GLU	N-CA-C	-5.24	105.75	111.82
1	B	48	GLY	CA-C-O	-5.24	116.10	122.75
1	E	92	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	F	48	GLY	CA-C-O	-5.24	116.10	122.75
1	G	79	TRP	CE2-CD2-CG	-5.24	100.92	107.20
1	J	195	GLU	N-CA-C	-5.24	105.75	111.82
1	E	372	ARG	N-CA-C	-5.23	104.50	112.04
1	C	111	ASN	CA-CB-CG	5.23	117.83	112.60
1	E	48	GLY	CA-C-O	-5.23	116.11	122.75
1	C	195	GLU	N-CA-C	-5.23	105.76	111.82
1	C	372	ARG	N-CA-C	-5.23	104.51	112.04
1	B	195	GLU	N-CA-C	-5.23	105.76	111.82
1	D	48	GLY	CA-C-O	-5.23	116.11	122.75
1	F	79	TRP	CE2-CD2-CG	-5.23	100.93	107.20
1	A	111	ASN	CA-CB-CG	5.22	117.82	112.60
1	J	48	GLY	CA-C-O	-5.22	116.12	122.75
1	J	372	ARG	N-CA-C	-5.22	104.52	112.04
1	H	48	GLY	CA-C-O	-5.22	116.12	122.75
1	A	48	GLY	CA-C-O	-5.22	116.12	122.75
1	E	79	TRP	CE2-CD2-CG	-5.22	100.93	107.20
1	F	111	ASN	CA-CB-CG	5.22	117.82	112.60
1	G	48	GLY	CA-C-O	-5.22	116.12	122.75
1	B	372	ARG	N-CA-C	-5.22	104.53	112.04
1	D	92	ASN	OD1-CG-ND2	-5.22	117.38	122.60
1	I	372	ARG	N-CA-C	-5.22	104.53	112.04
1	J	92	ASN	OD1-CG-ND2	-5.22	117.38	122.60
2	L	147	ARG	N-CA-C	5.22	117.05	111.36
1	A	79	TRP	CE2-CD2-CG	-5.21	100.94	107.20
1	I	48	GLY	CA-C-O	-5.21	116.13	122.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	300	SER	CA-C-O	-5.21	115.51	121.40
1	J	300	SER	CA-C-O	-5.21	115.51	121.40
1	D	300	SER	CA-C-O	-5.21	115.51	121.40
1	B	79	TRP	CE2-CD2-CG	-5.21	100.95	107.20
1	G	111	ASN	CA-CB-CG	5.21	117.81	112.60
1	G	372	ARG	N-CA-C	-5.21	104.54	112.04
1	H	79	TRP	CE2-CD2-CG	-5.21	100.95	107.20
1	H	111	ASN	CA-CB-CG	5.21	117.81	112.60
1	B	300	SER	CA-C-O	-5.21	115.52	121.40
1	F	300	SER	CA-C-O	-5.21	115.52	121.40
1	I	92	ASN	OD1-CG-ND2	-5.21	117.39	122.60
1	J	128	ASN	OD1-CG-ND2	-5.21	117.39	122.60
1	E	111	ASN	CA-CB-CG	5.20	117.80	112.60
1	G	92	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	I	79	TRP	CE2-CD2-CG	-5.20	100.95	107.20
1	I	111	ASN	CA-CB-CG	5.20	117.80	112.60
1	H	300	SER	CA-C-O	-5.20	115.52	121.40
1	A	300	SER	CA-C-O	-5.20	115.53	121.40
1	D	111	ASN	CA-CB-CG	5.20	117.80	112.60
1	E	300	SER	CA-C-O	-5.20	115.53	121.40
1	H	306	TYR	CA-C-O	-5.20	114.86	119.75
1	F	92	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	F	128	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	B	128	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	C	128	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	G	128	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	G	300	SER	CA-C-O	-5.19	115.54	121.40
1	I	306	TYR	CA-C-O	-5.19	114.87	119.75
1	J	111	ASN	CA-CB-CG	5.19	117.79	112.60
1	B	111	ASN	CA-CB-CG	5.18	117.78	112.60
1	C	300	SER	CA-C-O	-5.18	115.54	121.40
1	I	329	ILE	CA-C-O	-5.18	114.44	121.02
1	J	43	VAL	CA-CB-CG2	-5.18	101.59	110.40
1	E	128	ASN	OD1-CG-ND2	-5.18	117.42	122.60
1	B	43	VAL	CA-CB-CG2	-5.18	101.59	110.40
2	M	147	ARG	N-CA-C	5.18	117.00	111.36
1	I	43	VAL	CA-CB-CG2	-5.17	101.61	110.40
1	A	43	VAL	CA-CB-CG2	-5.17	101.61	110.40
2	Q	147	ARG	N-CA-C	5.17	117.00	111.36
1	B	49	GLN	CG-CD-NE2	5.17	124.16	116.40
1	F	43	VAL	CA-CB-CG2	-5.17	101.61	110.40
1	A	128	ASN	OD1-CG-ND2	-5.17	117.43	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	274	ILE	N-CA-C	5.17	120.09	109.34
1	E	43	VAL	CA-CB-CG2	-5.17	101.61	110.40
1	G	329	ILE	CA-C-O	-5.17	114.46	121.02
1	H	43	VAL	CA-CB-CG2	-5.17	101.61	110.40
1	H	49	GLN	CG-CD-NE2	5.17	124.15	116.40
1	I	128	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	J	49	GLN	CG-CD-NE2	5.17	124.15	116.40
2	O	147	ARG	N-CA-C	5.17	116.99	111.36
2	N	147	ARG	N-CA-C	5.17	116.99	111.36
1	C	43	VAL	CA-CB-CG2	-5.17	101.62	110.40
1	D	128	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	F	49	GLN	CG-CD-NE2	5.17	124.15	116.40
2	K	147	ARG	N-CA-C	5.17	116.99	111.36
1	B	329	ILE	CA-C-O	-5.17	114.46	121.02
1	E	49	GLN	CG-CD-NE2	5.17	124.15	116.40
1	C	49	GLN	CG-CD-NE2	5.16	124.15	116.40
1	H	128	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	H	274	ILE	N-CA-C	5.16	120.08	109.34
1	I	49	GLN	CG-CD-NE2	5.16	124.15	116.40
2	P	147	ARG	N-CA-C	5.16	116.99	111.36
1	E	329	ILE	CA-C-O	-5.16	114.47	121.02
1	G	43	VAL	CA-CB-CG2	-5.16	101.63	110.40
2	O	122	VAL	N-CA-C	5.16	115.77	107.98
2	S	147	ARG	N-CA-C	5.16	116.98	111.36
1	D	43	VAL	CA-CB-CG2	-5.16	101.63	110.40
1	A	49	GLN	CG-CD-NE2	5.16	124.13	116.40
1	A	329	ILE	CA-C-O	-5.16	114.47	121.02
1	A	39	ARG	CA-C-N	5.15	131.38	121.54
1	A	39	ARG	C-N-CA	5.15	131.38	121.54
1	D	49	GLN	CG-CD-NE2	5.15	124.13	116.40
1	D	274	ILE	N-CA-C	5.15	120.06	109.34
1	G	49	GLN	CG-CD-NE2	5.15	124.13	116.40
1	H	39	ARG	CA-C-N	5.15	131.38	121.54
1	H	39	ARG	C-N-CA	5.15	131.38	121.54
1	I	274	ILE	N-CA-C	5.15	120.06	109.34
1	C	39	ARG	CA-C-N	5.15	131.38	121.54
1	C	39	ARG	C-N-CA	5.15	131.38	121.54
1	E	274	ILE	N-CA-C	5.15	120.06	109.34
2	R	147	ARG	N-CA-C	5.15	116.98	111.36
1	F	274	ILE	N-CA-C	5.15	120.05	109.34
1	G	274	ILE	N-CA-C	5.15	120.05	109.34
1	H	329	ILE	CA-C-O	-5.15	114.48	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	329	ILE	CA-C-O	-5.15	114.48	121.02
2	Q	122	VAL	N-CA-C	5.15	115.75	107.98
1	B	39	ARG	CA-C-N	5.15	131.37	121.54
1	B	39	ARG	C-N-CA	5.15	131.37	121.54
1	B	274	ILE	N-CA-C	5.14	120.04	109.34
1	D	274	ILE	CA-CB-CG2	5.14	119.24	110.50
1	F	274	ILE	CA-CB-CG2	5.14	119.25	110.50
1	F	329	ILE	CA-C-O	-5.14	114.49	121.02
1	I	274	ILE	CA-CB-CG2	5.14	119.25	110.50
1	J	274	ILE	N-CA-C	5.14	120.04	109.34
2	R	122	VAL	N-CA-C	5.14	115.75	107.98
1	C	329	ILE	CA-C-O	-5.14	114.49	121.02
1	D	329	ILE	CA-C-O	-5.14	114.49	121.02
1	D	39	ARG	CA-C-N	5.14	131.36	121.54
1	D	39	ARG	C-N-CA	5.14	131.36	121.54
2	T	122	VAL	N-CA-C	5.14	115.74	107.98
1	A	274	ILE	CA-CB-CG2	5.14	119.24	110.50
1	A	306	TYR	CA-C-O	-5.14	114.92	119.75
1	F	88	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	J	39	ARG	CA-C-N	5.14	131.35	121.54
1	J	39	ARG	C-N-CA	5.14	131.35	121.54
2	K	122	VAL	N-CA-C	5.14	115.74	107.98
1	D	88	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	E	306	TYR	CA-C-O	-5.14	114.92	119.75
1	J	193	LEU	CA-C-N	5.14	128.12	120.31
1	J	193	LEU	C-N-CA	5.14	128.12	120.31
1	J	274	ILE	CA-CB-CG2	5.14	119.23	110.50
2	N	122	VAL	N-CA-C	5.14	115.74	107.98
1	E	39	ARG	CA-C-N	5.13	131.35	121.54
1	E	39	ARG	C-N-CA	5.13	131.35	121.54
1	E	274	ILE	CA-CB-CG2	5.13	119.23	110.50
1	F	39	ARG	CA-C-N	5.13	131.35	121.54
1	F	39	ARG	C-N-CA	5.13	131.35	121.54
1	G	274	ILE	CA-CB-CG2	5.13	119.23	110.50
2	T	147	ARG	N-CA-C	5.13	116.96	111.36
1	I	193	LEU	CA-C-N	5.13	128.11	120.31
1	I	193	LEU	C-N-CA	5.13	128.11	120.31
2	S	122	VAL	N-CA-C	5.13	115.73	107.98
1	B	306	TYR	CA-C-O	-5.13	114.93	119.75
1	J	88	HIS	CB-CG-CD2	-5.13	124.53	131.20
1	B	274	ILE	CA-CB-CG2	5.13	119.22	110.50
1	F	306	TYR	CA-C-O	-5.13	114.93	119.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	39	ARG	CA-C-N	5.13	131.33	121.54
1	G	39	ARG	C-N-CA	5.13	131.33	121.54
1	G	193	LEU	CA-C-N	5.13	128.10	120.31
1	G	193	LEU	C-N-CA	5.13	128.10	120.31
1	H	274	ILE	CA-CB-CG2	5.13	119.22	110.50
1	C	274	ILE	CA-CB-CG2	5.13	119.21	110.50
1	C	274	ILE	N-CA-C	5.12	120.00	109.34
1	G	88	HIS	CB-CG-CD2	-5.12	124.54	131.20
1	G	132	MET	CG-SD-CE	-5.12	89.62	100.90
1	J	6	ALA	N-CA-C	-5.12	99.89	110.80
1	A	193	LEU	CA-C-N	5.12	128.09	120.31
1	A	193	LEU	C-N-CA	5.12	128.09	120.31
2	M	122	VAL	N-CA-C	5.12	115.71	107.98
1	B	6	ALA	N-CA-C	-5.12	99.89	110.80
1	B	88	HIS	CB-CG-CD2	-5.12	124.55	131.20
1	D	132	MET	CG-SD-CE	-5.12	89.64	100.90
1	E	193	LEU	CA-C-N	5.12	128.09	120.31
1	E	193	LEU	C-N-CA	5.12	128.09	120.31
1	H	132	MET	CG-SD-CE	-5.12	89.64	100.90
1	H	193	LEU	CA-C-N	5.12	128.09	120.31
1	H	193	LEU	C-N-CA	5.12	128.09	120.31
1	A	132	MET	CG-SD-CE	-5.12	89.64	100.90
1	B	132	MET	CG-SD-CE	-5.12	89.65	100.90
1	C	6	ALA	N-CA-C	-5.12	99.90	110.80
1	E	88	HIS	CB-CG-CD2	-5.12	124.55	131.20
1	I	6	ALA	N-CA-C	-5.12	99.90	110.80
1	I	132	MET	CG-SD-CE	-5.12	89.64	100.90
1	A	6	ALA	N-CA-C	-5.11	99.91	110.80
1	B	193	LEU	CA-C-N	5.11	128.08	120.31
1	B	193	LEU	C-N-CA	5.11	128.08	120.31
1	C	132	MET	CG-SD-CE	-5.11	89.65	100.90
1	G	6	ALA	N-CA-C	-5.11	99.91	110.80
1	G	306	TYR	CA-C-O	-5.11	114.94	119.75
1	J	306	TYR	CA-C-O	-5.11	114.94	119.75
1	A	329	ILE	N-CA-C	-5.11	101.10	108.87
1	F	6	ALA	N-CA-C	-5.11	99.91	110.80
1	C	193	LEU	CA-C-N	5.11	128.08	120.31
1	C	193	LEU	C-N-CA	5.11	128.08	120.31
1	D	6	ALA	N-CA-C	-5.11	99.92	110.80
1	D	329	ILE	N-CA-C	-5.11	101.10	108.87
1	E	6	ALA	N-CA-C	-5.11	99.91	110.80
1	E	132	MET	CG-SD-CE	-5.11	89.66	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	122	VAL	N-CA-C	5.11	115.70	107.98
1	D	306	TYR	CA-C-O	-5.11	114.95	119.75
1	F	329	ILE	N-CA-C	-5.11	101.10	108.87
1	D	239	SER	CA-C-O	5.11	126.12	120.71
1	I	88	HIS	CB-CG-CD2	-5.11	124.56	131.20
1	A	88	HIS	CB-CG-CD2	-5.11	124.56	131.20
1	F	132	MET	CG-SD-CE	-5.11	89.67	100.90
1	H	6	ALA	N-CA-C	-5.11	99.92	110.80
1	H	329	ILE	N-CA-C	-5.11	101.11	108.87
2	P	122	VAL	N-CA-C	5.11	115.69	107.98
1	A	86	TRP	CB-CG-CD1	-5.10	119.25	126.90
1	D	193	LEU	CA-C-N	5.10	128.07	120.31
1	D	193	LEU	C-N-CA	5.10	128.07	120.31
1	F	193	LEU	CA-C-N	5.10	128.07	120.31
1	F	193	LEU	C-N-CA	5.10	128.07	120.31
1	H	88	HIS	CB-CG-CD2	-5.10	124.56	131.20
1	J	132	MET	CG-SD-CE	-5.10	89.67	100.90
1	B	86	TRP	CB-CG-CD1	-5.10	119.25	126.90
1	C	88	HIS	CB-CG-CD2	-5.10	124.57	131.20
1	I	39	ARG	CA-C-N	5.10	131.29	121.54
1	I	39	ARG	C-N-CA	5.10	131.29	121.54
1	J	239	SER	CA-C-O	5.10	126.12	120.71
1	B	329	ILE	N-CA-C	-5.10	101.12	108.87
1	D	86	TRP	CB-CG-CD1	-5.10	119.25	126.90
1	A	40	HIS	CB-CG-CD2	-5.10	124.58	131.20
1	I	329	ILE	N-CA-C	-5.09	101.13	108.87
1	F	239	SER	CA-C-O	5.09	126.11	120.71
1	H	86	TRP	CB-CG-CD1	-5.09	119.26	126.90
1	J	329	ILE	N-CA-C	-5.09	101.13	108.87
1	E	239	SER	CA-C-O	5.09	126.10	120.71
1	I	162	THR	CB-CA-C	5.09	118.52	109.72
1	C	329	ILE	N-CA-C	-5.09	101.14	108.87
1	E	329	ILE	N-CA-C	-5.09	101.14	108.87
1	C	239	SER	CA-C-O	5.08	126.10	120.71
1	E	86	TRP	CB-CG-CD1	-5.08	119.27	126.90
1	J	40	HIS	CB-CG-CD2	-5.08	124.59	131.20
1	F	162	THR	CB-CA-C	5.08	118.52	109.72
1	A	162	THR	CB-CA-C	5.08	118.51	109.72
1	B	162	THR	CB-CA-C	5.08	118.51	109.72
1	I	86	TRP	CB-CG-CD1	-5.08	119.28	126.90
1	A	239	SER	CA-C-O	5.08	126.09	120.71
1	C	40	HIS	CB-CG-CD2	-5.08	124.60	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	162	THR	CB-CA-C	5.08	118.51	109.72
1	C	306	TYR	CA-C-O	-5.08	114.98	119.75
1	G	239	SER	CA-C-O	5.08	126.09	120.71
1	B	239	SER	CA-C-O	5.08	126.09	120.71
1	E	40	HIS	CB-CG-CD2	-5.08	124.60	131.20
1	E	162	THR	CB-CA-C	5.08	118.50	109.72
1	F	40	HIS	CB-CG-CD2	-5.08	124.60	131.20
1	G	86	TRP	CB-CG-CD1	-5.08	119.29	126.90
1	G	162	THR	CB-CA-C	5.08	118.50	109.72
1	I	40	HIS	CB-CG-CD2	-5.08	124.60	131.20
1	G	329	ILE	N-CA-C	-5.07	101.16	108.87
1	C	86	TRP	CB-CG-CD1	-5.07	119.29	126.90
1	G	366	GLY	CA-C-N	5.07	124.68	119.56
1	G	366	GLY	C-N-CA	5.07	124.68	119.56
1	H	162	THR	CB-CA-C	5.07	118.49	109.72
1	I	342	GLY	CA-C-N	5.07	125.47	119.94
1	I	342	GLY	C-N-CA	5.07	125.47	119.94
1	J	86	TRP	CB-CG-CD1	-5.07	119.29	126.90
1	J	162	THR	CB-CA-C	5.07	118.49	109.72
1	B	40	HIS	CB-CG-CD2	-5.07	124.61	131.20
1	B	366	GLY	CA-C-N	5.07	124.68	119.56
1	B	366	GLY	C-N-CA	5.07	124.68	119.56
1	F	86	TRP	CB-CG-CD1	-5.07	119.30	126.90
1	J	53	TYR	CB-CA-C	5.07	118.06	109.50
1	D	40	HIS	CB-CG-CD2	-5.06	124.62	131.20
1	F	342	GLY	CA-C-N	5.06	125.46	119.94
1	F	342	GLY	C-N-CA	5.06	125.46	119.94
1	D	162	THR	CB-CA-C	5.06	118.48	109.72
1	F	53	TYR	CB-CA-C	5.06	118.05	109.50
1	F	366	GLY	CA-C-N	5.06	124.67	119.56
1	F	366	GLY	C-N-CA	5.06	124.67	119.56
1	H	3	ASP	CA-CB-CG	5.06	117.66	112.60
1	H	366	GLY	CA-C-N	5.06	124.67	119.56
1	H	366	GLY	C-N-CA	5.06	124.67	119.56
1	F	93	GLU	CB-CG-CD	5.06	121.20	112.60
1	G	342	GLY	CA-C-N	5.06	125.45	119.94
1	G	342	GLY	C-N-CA	5.06	125.45	119.94
1	H	239	SER	CA-C-O	5.06	126.07	120.71
1	A	53	TYR	CB-CA-C	5.05	118.04	109.50
1	G	40	HIS	CB-CG-CD2	-5.05	124.63	131.20
1	B	53	TYR	CB-CA-C	5.05	118.04	109.50
1	I	239	SER	CA-C-O	5.05	126.07	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	366	GLY	CA-C-N	5.05	124.66	119.56
1	A	366	GLY	C-N-CA	5.05	124.66	119.56
1	B	342	GLY	CA-C-N	5.05	125.44	119.94
1	B	342	GLY	C-N-CA	5.05	125.44	119.94
1	C	93	GLU	CB-CG-CD	5.05	121.19	112.60
1	D	3	ASP	CA-CB-CG	5.05	117.65	112.60
1	D	293	LEU	O-C-N	-5.05	116.39	122.15
1	E	53	TYR	CB-CA-C	5.05	118.04	109.50
1	E	366	GLY	CA-C-N	5.05	124.66	119.56
1	E	366	GLY	C-N-CA	5.05	124.66	119.56
1	B	3	ASP	CA-CB-CG	5.05	117.65	112.60
1	H	40	HIS	CB-CG-CD2	-5.05	124.64	131.20
1	C	53	TYR	CB-CA-C	5.05	118.03	109.50
1	D	53	TYR	CB-CA-C	5.05	118.03	109.50
1	E	93	GLU	CB-CG-CD	5.05	121.18	112.60
1	H	53	TYR	CB-CA-C	5.05	118.03	109.50
1	H	93	GLU	CB-CG-CD	5.05	121.18	112.60
1	I	53	TYR	CB-CA-C	5.05	118.03	109.50
1	J	93	GLU	CB-CG-CD	5.04	121.18	112.60
1	J	49	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	B	93	GLU	CB-CG-CD	5.04	121.17	112.60
1	D	49	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	A	93	GLU	CB-CG-CD	5.04	121.17	112.60
1	G	53	TYR	CB-CA-C	5.04	118.02	109.50
1	G	93	GLU	CB-CG-CD	5.04	121.17	112.60
1	A	3	ASP	CA-CB-CG	5.04	117.64	112.60
1	B	9	VAL	O-C-N	-5.04	117.21	122.95
1	F	49	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	I	93	GLU	CB-CG-CD	5.04	121.16	112.60
1	E	342	GLY	CA-C-N	5.04	125.43	119.94
1	E	342	GLY	C-N-CA	5.04	125.43	119.94
1	F	3	ASP	CA-CB-CG	5.04	117.64	112.60
1	G	9	VAL	O-C-N	-5.04	117.21	122.95
1	G	49	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	I	3	ASP	CA-CB-CG	5.04	117.64	112.60
1	D	93	GLU	CB-CG-CD	5.03	121.16	112.60
1	I	366	GLY	CA-C-N	5.03	124.64	119.56
1	I	366	GLY	C-N-CA	5.03	124.64	119.56
1	C	293	LEU	O-C-N	-5.03	116.41	122.15
1	F	9	VAL	O-C-N	-5.03	117.21	122.95
1	J	366	GLY	CA-C-N	5.03	124.64	119.56
1	J	366	GLY	C-N-CA	5.03	124.64	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	9	VAL	O-C-N	-5.03	117.22	122.95
1	C	366	GLY	CA-C-N	5.03	124.64	119.56
1	C	366	GLY	C-N-CA	5.03	124.64	119.56
1	D	342	GLY	CA-C-N	5.03	125.42	119.94
1	D	342	GLY	C-N-CA	5.03	125.42	119.94
1	F	293	LEU	O-C-N	-5.03	116.42	122.15
1	H	49	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	H	342	GLY	CA-C-N	5.03	125.42	119.94
1	H	342	GLY	C-N-CA	5.03	125.42	119.94
1	C	9	VAL	O-C-N	-5.03	117.22	122.95
1	I	9	VAL	O-C-N	-5.03	117.22	122.95
1	J	3	ASP	CA-CB-CG	5.03	117.63	112.60
1	J	9	VAL	O-C-N	-5.03	117.22	122.95
1	A	293	LEU	O-C-N	-5.03	116.42	122.15
1	E	3	ASP	CA-CB-CG	5.03	117.63	112.60
1	G	3	ASP	CA-CB-CG	5.03	117.63	112.60
1	B	293	LEU	O-C-N	-5.02	116.42	122.15
1	E	9	VAL	O-C-N	-5.02	117.22	122.95
1	I	49	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	E	49	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	E	293	LEU	O-C-N	-5.02	116.43	122.15
1	A	49	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	H	293	LEU	O-C-N	-5.02	116.43	122.15
1	I	293	LEU	O-C-N	-5.01	116.44	122.15
1	A	342	GLY	CA-C-N	5.01	125.40	119.94
1	A	342	GLY	C-N-CA	5.01	125.40	119.94
1	C	3	ASP	CA-CB-CG	5.01	117.61	112.60
1	H	9	VAL	O-C-N	-5.01	117.24	122.95
1	G	293	LEU	O-C-N	-5.01	116.44	122.15
1	J	342	GLY	CA-C-N	5.01	125.40	119.94
1	J	342	GLY	C-N-CA	5.01	125.40	119.94
1	C	49	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	D	121	GLN	CB-CG-CD	-5.00	104.09	112.60
1	B	49	GLN	OE1-CD-NE2	-5.00	117.60	122.60
1	H	27	PRO	CA-C-O	-5.00	115.87	121.32
1	J	293	LEU	O-C-N	-5.00	116.45	122.15
1	B	121	GLN	CB-CG-CD	-5.00	104.10	112.60

All (10) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	73	HIS	CA

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Mol	Chain	Res	Type	Atom
1	B	73	HIS	CA
1	C	73	HIS	CA
1	D	73	HIS	CA
1	E	73	HIS	CA
1	F	73	HIS	CA
1	G	73	HIS	CA
1	H	73	HIS	CA
1	I	73	HIS	CA
1	J	73	HIS	CA

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	4	ASP	Mainchain
1	B	4	ASP	Mainchain
1	C	4	ASP	Mainchain
1	D	4	ASP	Mainchain
1	E	4	ASP	Mainchain
1	F	4	ASP	Mainchain
1	G	4	ASP	Mainchain
1	H	4	ASP	Mainchain
1	I	4	ASP	Mainchain
1	J	4	ASP	Mainchain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2917	0	2851	479	0
1	B	2917	0	2851	481	0
1	C	2917	0	2847	726	0
1	D	2917	0	2847	725	0
1	E	2917	0	2847	727	0
1	F	2917	0	2847	725	0
1	G	2917	0	2847	724	0
1	H	2917	0	2847	726	0
1	I	2917	0	2857	481	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	J	2917	0	2857	476	0
2	K	874	0	917	0	0
2	L	874	0	917	0	0
2	M	874	0	917	0	0
2	N	874	0	917	0	0
2	O	874	0	917	0	0
2	P	874	0	917	0	0
2	Q	874	0	917	0	0
2	R	874	0	917	0	0
2	S	874	0	917	0	0
2	T	874	0	917	0	0
All	All	37910	0	37668	4256	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 74.

All (4256) 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:H:142:LEU:HD13	1:H:152:VAL:CG2	1.18	1.62
1:A:69:TYR:CB	1:A:84:LYS:H	0.99	1.62
1:G:245:GLY:HA2	1:I:324:THR:CA	1.28	1.61
1:C:69:TYR:CB	1:C:84:LYS:H	0.99	1.60
1:C:142:LEU:HD13	1:C:152:VAL:CG2	1.18	1.60
1:E:142:LEU:HD13	1:E:152:VAL:CG2	1.18	1.60
1:E:245:GLY:HA2	1:G:324:THR:CA	1.28	1.60
1:F:142:LEU:HD13	1:F:152:VAL:CG2	1.18	1.60
1:C:245:GLY:HA2	1:E:324:THR:CA	1.28	1.59
1:J:142:LEU:HD13	1:J:152:VAL:CG2	1.18	1.59
1:B:245:GLY:HA2	1:D:324:THR:CA	1.28	1.59
1:G:246:GLN:CB	1:I:322:PRO:HB3	1.32	1.59
1:J:69:TYR:CB	1:J:84:LYS:H	0.99	1.59
1:A:245:GLY:HA2	1:C:324:THR:CA	1.28	1.58
1:D:38:PRO:HB2	1:F:169:TYR:CE1	1.39	1.58
1:D:245:GLY:HA2	1:F:324:THR:CA	1.28	1.58
1:I:142:LEU:HD13	1:I:152:VAL:CG2	1.18	1.57
1:I:69:TYR:CB	1:I:84:LYS:H	0.99	1.57
1:B:69:TYR:CB	1:B:84:LYS:H	0.99	1.57
1:E:38:PRO:HB2	1:G:169:TYR:CE1	1.39	1.57
1:D:246:GLN:CB	1:F:322:PRO:HB3	1.32	1.57
1:G:142:LEU:HD13	1:G:152:VAL:CG2	1.18	1.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:LEU:HD13	1:A:152:VAL:CG2	1.18	1.56
1:A:246:GLN:CB	1:C:322:PRO:HB3	1.32	1.56
1:G:205:GLU:HG2	1:I:287:VAL:CG1	1.35	1.56
1:A:205:GLU:HG2	1:C:287:VAL:CG1	1.35	1.56
1:F:245:GLY:HA2	1:H:324:THR:CA	1.28	1.56
1:G:69:TYR:CB	1:G:84:LYS:H	0.99	1.56
1:F:246:GLN:CB	1:H:322:PRO:HB3	1.32	1.56
1:A:38:PRO:HB2	1:C:169:TYR:CE1	1.39	1.55
1:E:69:TYR:CB	1:E:84:LYS:H	0.99	1.55
1:E:246:GLN:CB	1:G:322:PRO:HB3	1.32	1.55
1:G:38:PRO:HB2	1:I:169:TYR:CE1	1.39	1.55
1:G:205:GLU:CG	1:I:287:VAL:HG13	1.33	1.55
1:H:245:GLY:HA2	1:J:324:THR:CA	1.28	1.55
1:E:205:GLU:CG	1:G:287:VAL:HG13	1.33	1.55
1:F:69:TYR:CB	1:F:84:LYS:H	0.99	1.55
1:D:69:TYR:CB	1:D:84:LYS:H	0.99	1.55
1:D:142:LEU:HD13	1:D:152:VAL:CG2	1.18	1.55
1:H:38:PRO:HB2	1:J:169:TYR:CE1	1.39	1.55
1:C:205:GLU:CG	1:E:287:VAL:HG13	1.33	1.55
1:B:142:LEU:HD13	1:B:152:VAL:CG2	1.18	1.55
1:B:246:GLN:CB	1:D:322:PRO:HB3	1.32	1.55
1:C:245:GLY:CA	1:E:324:THR:N	1.70	1.54
1:A:205:GLU:CG	1:C:287:VAL:HG13	1.33	1.54
1:B:205:GLU:HG2	1:D:287:VAL:CG1	1.35	1.54
1:H:69:TYR:CB	1:H:84:LYS:H	0.99	1.54
1:B:38:PRO:HB2	1:D:169:TYR:CE1	1.39	1.54
1:C:246:GLN:CB	1:E:322:PRO:HB3	1.32	1.54
1:D:205:GLU:HG2	1:F:287:VAL:CG1	1.35	1.54
1:G:245:GLY:CA	1:I:324:THR:N	1.70	1.54
1:D:204:ALA:CB	1:F:288:ASP:HA	1.38	1.53
1:E:205:GLU:HG2	1:G:287:VAL:CG1	1.35	1.53
1:H:245:GLY:CA	1:J:324:THR:N	1.70	1.53
1:C:205:GLU:HG2	1:E:287:VAL:CG1	1.35	1.53
1:F:38:PRO:HB2	1:H:169:TYR:CE1	1.39	1.53
1:H:204:ALA:CB	1:J:288:ASP:HA	1.38	1.53
1:F:204:ALA:CB	1:H:288:ASP:HA	1.38	1.52
1:F:205:GLU:HG2	1:H:287:VAL:CG1	1.35	1.52
1:H:246:GLN:CB	1:J:322:PRO:HB3	1.32	1.52
1:A:245:GLY:CA	1:C:324:THR:N	1.70	1.52
1:B:205:GLU:CG	1:D:287:VAL:HG13	1.33	1.52
1:B:245:GLY:CA	1:D:324:THR:N	1.70	1.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:204:ALA:CB	1:G:288:ASP:HA	1.38	1.52
1:B:204:ALA:CB	1:D:288:ASP:HA	1.38	1.52
1:G:204:ALA:CB	1:I:288:ASP:HA	1.38	1.52
1:A:204:ALA:CB	1:C:288:ASP:HA	1.38	1.51
1:H:110:LEU:CD1	1:H:178:LEU:N	1.73	1.51
1:C:38:PRO:HB2	1:E:169:TYR:CE1	1.39	1.51
1:D:110:LEU:CD1	1:D:178:LEU:N	1.73	1.51
1:D:205:GLU:CG	1:F:287:VAL:HG13	1.33	1.51
1:D:245:GLY:CA	1:F:324:THR:N	1.70	1.51
1:E:245:GLY:CA	1:G:324:THR:N	1.70	1.51
1:H:205:GLU:CG	1:J:287:VAL:HG13	1.33	1.51
1:A:110:LEU:CD1	1:A:178:LEU:N	1.73	1.50
1:F:72:GLU:CB	1:F:183:ARG:HH11	1.23	1.50
1:F:205:GLU:CG	1:H:287:VAL:HG13	1.33	1.50
1:H:205:GLU:HG2	1:J:287:VAL:CG1	1.35	1.50
1:B:110:LEU:CD1	1:B:178:LEU:N	1.73	1.50
1:C:109:PRO:N	1:C:159:VAL:HG11	1.20	1.50
1:D:72:GLU:CB	1:D:183:ARG:HH11	1.23	1.50
1:I:72:GLU:HB3	1:I:183:ARG:NH1	1.20	1.50
1:B:202:THR:CG2	1:D:286:ASP:C	1.80	1.49
1:A:109:PRO:N	1:A:159:VAL:HG11	1.20	1.49
1:B:72:GLU:HB3	1:B:183:ARG:NH1	1.20	1.49
1:B:109:PRO:N	1:B:159:VAL:CG1	1.74	1.49
1:E:109:PRO:N	1:E:159:VAL:CG1	1.74	1.49
1:F:245:GLY:CA	1:H:324:THR:N	1.70	1.49
1:H:72:GLU:CB	1:H:183:ARG:HH11	1.23	1.49
1:C:109:PRO:N	1:C:159:VAL:CG1	1.74	1.49
1:E:110:LEU:CD1	1:E:178:LEU:N	1.73	1.49
1:A:72:GLU:CB	1:A:183:ARG:HH11	1.23	1.48
1:C:72:GLU:CB	1:C:183:ARG:HH11	1.23	1.48
1:G:110:LEU:CD1	1:G:178:LEU:N	1.73	1.48
1:I:72:GLU:CB	1:I:183:ARG:HH11	1.23	1.48
1:C:204:ALA:CB	1:E:288:ASP:HA	1.38	1.48
1:H:202:THR:CG2	1:J:286:ASP:C	1.80	1.48
1:J:109:PRO:N	1:J:159:VAL:CG1	1.74	1.48
1:B:138:ALA:HB2	1:B:154:ASP:CB	1.01	1.48
1:D:138:ALA:HB2	1:D:154:ASP:CB	1.01	1.48
1:I:109:PRO:N	1:I:159:VAL:CG1	1.74	1.48
1:I:110:LEU:CD1	1:I:178:LEU:N	1.73	1.48
1:J:110:LEU:CD1	1:J:178:LEU:N	1.73	1.48
1:A:110:LEU:HD11	1:A:178:LEU:N	1.23	1.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:74:GLY:N	1:F:157:ASP:C	1.72	1.47
1:F:138:ALA:HB2	1:F:154:ASP:CB	1.01	1.47
1:G:109:PRO:N	1:G:159:VAL:CG1	1.74	1.47
1:H:109:PRO:N	1:H:159:VAL:CG1	1.74	1.47
1:B:72:GLU:CB	1:B:183:ARG:HH11	1.23	1.47
1:D:72:GLU:HB3	1:D:183:ARG:NH1	1.20	1.47
1:F:110:LEU:CD1	1:F:178:LEU:N	1.73	1.47
1:J:74:GLY:HA3	1:J:158:GLY:N	1.14	1.47
1:C:110:LEU:HD11	1:C:178:LEU:N	1.23	1.47
1:H:74:GLY:HA3	1:H:158:GLY:N	1.14	1.47
1:H:138:ALA:HB2	1:H:154:ASP:CB	1.01	1.47
1:J:138:ALA:HB2	1:J:154:ASP:CB	1.01	1.47
1:A:109:PRO:N	1:A:159:VAL:CG1	1.74	1.47
1:B:246:GLN:HB2	1:D:322:PRO:CB	1.45	1.47
1:F:109:PRO:N	1:F:159:VAL:HG11	1.20	1.47
1:G:72:GLU:HB3	1:G:183:ARG:NH1	1.20	1.47
1:C:110:LEU:CD1	1:C:178:LEU:N	1.73	1.47
1:C:246:GLN:HB2	1:E:322:PRO:CB	1.45	1.47
1:E:246:GLN:HB2	1:G:322:PRO:CB	1.45	1.47
1:H:109:PRO:N	1:H:159:VAL:HG11	1.20	1.47
1:F:74:GLY:HA3	1:F:158:GLY:N	1.14	1.46
1:H:74:GLY:N	1:H:157:ASP:C	1.72	1.46
1:A:138:ALA:HB2	1:A:154:ASP:CB	1.01	1.46
1:A:74:GLY:HA3	1:A:158:GLY:N	1.14	1.46
1:D:109:PRO:N	1:D:159:VAL:CG1	1.74	1.46
1:E:72:GLU:CB	1:E:183:ARG:HH11	1.23	1.46
1:F:109:PRO:N	1:F:159:VAL:CG1	1.74	1.46
1:E:110:LEU:HD11	1:E:178:LEU:N	1.23	1.46
1:G:138:ALA:CB	1:G:154:ASP:CB	1.81	1.46
1:E:109:PRO:N	1:E:159:VAL:HG11	1.20	1.46
1:B:202:THR:CG2	1:D:286:ASP:O	1.64	1.45
1:D:74:GLY:HA3	1:D:158:GLY:N	1.14	1.45
1:J:72:GLU:CB	1:J:183:ARG:HH11	1.23	1.45
1:F:202:THR:CG2	1:H:286:ASP:O	1.64	1.45
1:A:246:GLN:HB2	1:C:322:PRO:CB	1.45	1.45
1:D:74:GLY:N	1:D:157:ASP:C	1.72	1.45
1:G:72:GLU:CB	1:G:183:ARG:HH11	1.23	1.45
1:A:202:THR:CG2	1:C:286:ASP:O	1.64	1.45
1:F:72:GLU:HB3	1:F:183:ARG:NH1	1.20	1.45
1:G:246:GLN:HB2	1:I:322:PRO:CB	1.45	1.45
1:D:246:GLN:HB2	1:F:322:PRO:CB	1.45	1.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:110:LEU:HD11	1:J:178:LEU:N	1.23	1.44
1:C:74:GLY:HA3	1:C:158:GLY:N	1.14	1.44
1:D:246:GLN:H	1:F:322:PRO:CB	1.31	1.44
1:J:74:GLY:N	1:J:157:ASP:C	1.72	1.44
1:E:72:GLU:HB3	1:E:183:ARG:NH1	1.20	1.44
1:G:110:LEU:HD11	1:G:178:LEU:N	1.23	1.44
1:H:246:GLN:HB2	1:J:322:PRO:CB	1.45	1.44
1:B:74:GLY:HA3	1:B:158:GLY:N	1.14	1.44
1:G:74:GLY:N	1:G:157:ASP:C	1.72	1.44
1:B:74:GLY:N	1:B:157:ASP:C	1.72	1.43
1:E:74:GLY:N	1:E:157:ASP:C	1.72	1.43
1:G:202:THR:CG2	1:I:286:ASP:O	1.64	1.43
1:H:138:ALA:CB	1:H:154:ASP:HB2	1.40	1.43
1:F:138:ALA:CB	1:F:154:ASP:HB2	1.40	1.43
1:I:74:GLY:N	1:I:157:ASP:C	1.72	1.43
1:I:138:ALA:HB2	1:I:154:ASP:CB	1.01	1.43
1:J:109:PRO:N	1:J:159:VAL:HG11	1.20	1.43
1:D:109:PRO:N	1:D:159:VAL:HG11	1.20	1.43
1:F:246:GLN:H	1:H:322:PRO:CB	1.31	1.43
1:G:138:ALA:HB2	1:G:154:ASP:CB	1.01	1.43
1:J:138:ALA:CB	1:J:154:ASP:HB2	1.40	1.43
1:C:74:GLY:N	1:C:157:ASP:C	1.72	1.43
1:F:246:GLN:HB2	1:H:322:PRO:CB	1.45	1.43
1:D:138:ALA:CB	1:D:154:ASP:HB2	1.40	1.42
1:H:110:LEU:HD11	1:H:178:LEU:N	1.23	1.42
1:B:246:GLN:H	1:D:322:PRO:CB	1.31	1.42
1:E:74:GLY:HA3	1:E:158:GLY:N	1.14	1.42
1:E:138:ALA:HB2	1:E:154:ASP:CB	1.01	1.42
1:H:72:GLU:HB3	1:H:183:ARG:NH1	1.20	1.42
1:E:138:ALA:CB	1:E:154:ASP:CB	1.81	1.42
1:E:246:GLN:H	1:G:322:PRO:CB	1.31	1.42
1:I:110:LEU:HD11	1:I:178:LEU:N	1.23	1.42
1:B:109:PRO:N	1:B:159:VAL:HG11	1.20	1.42
1:C:72:GLU:HB3	1:C:183:ARG:NH1	1.20	1.42
1:E:202:THR:CG2	1:G:286:ASP:O	1.64	1.42
1:F:109:PRO:CD	1:F:159:VAL:CG1	1.98	1.42
1:G:246:GLN:H	1:I:322:PRO:CB	1.31	1.42
1:F:74:GLY:CA	1:F:158:GLY:N	1.84	1.41
1:I:109:PRO:CD	1:I:159:VAL:CG1	1.98	1.41
1:E:109:PRO:CD	1:E:159:VAL:CG1	1.98	1.41
1:G:77:THR:CG2	1:G:183:ARG:HH12	1.33	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:74:GLY:CA	1:H:158:GLY:N	1.84	1.41
1:A:74:GLY:N	1:A:157:ASP:C	1.72	1.41
1:B:109:PRO:CD	1:B:159:VAL:CG1	1.98	1.41
1:D:74:GLY:CA	1:D:158:GLY:N	1.84	1.41
1:H:109:PRO:CD	1:H:159:VAL:CG1	1.98	1.41
1:J:109:PRO:CD	1:J:159:VAL:CG1	1.98	1.41
1:J:138:ALA:CB	1:J:154:ASP:CB	1.81	1.41
1:A:77:THR:CG2	1:A:183:ARG:HH12	1.33	1.41
1:A:202:THR:CG2	1:C:286:ASP:C	1.80	1.41
1:C:109:PRO:CD	1:C:159:VAL:CG1	1.98	1.41
1:C:138:ALA:HB2	1:C:154:ASP:CB	1.01	1.41
1:D:109:PRO:CD	1:D:159:VAL:CG1	1.98	1.41
1:I:77:THR:CG2	1:I:183:ARG:HH12	1.33	1.41
1:B:138:ALA:CB	1:B:154:ASP:HB2	1.40	1.41
1:I:109:PRO:N	1:I:159:VAL:HG11	1.20	1.41
1:C:74:GLY:CA	1:C:158:GLY:N	1.84	1.40
1:C:246:GLN:H	1:E:322:PRO:CB	1.31	1.40
1:F:110:LEU:HD11	1:F:178:LEU:N	1.23	1.40
1:H:138:ALA:CB	1:H:154:ASP:CB	1.81	1.40
1:H:246:GLN:H	1:J:322:PRO:CB	1.31	1.40
1:J:74:GLY:CA	1:J:158:GLY:N	1.84	1.40
1:C:202:THR:CG2	1:E:286:ASP:C	1.80	1.40
1:G:74:GLY:HA3	1:G:158:GLY:N	1.14	1.40
1:A:42:GLY:CA	1:C:169:TYR:HA	1.51	1.40
1:A:72:GLU:HB3	1:A:183:ARG:NH1	1.20	1.40
1:A:74:GLY:CA	1:A:158:GLY:N	1.84	1.40
1:A:109:PRO:CD	1:A:159:VAL:CG1	1.98	1.40
1:C:42:GLY:CA	1:E:169:TYR:HA	1.51	1.40
1:D:202:THR:CG2	1:F:286:ASP:O	1.64	1.40
1:G:109:PRO:CD	1:G:159:VAL:CG1	1.98	1.40
1:C:77:THR:CG2	1:C:183:ARG:HH12	1.33	1.40
1:E:42:GLY:CA	1:G:169:TYR:HA	1.51	1.40
1:G:42:GLY:CA	1:I:169:TYR:HA	1.51	1.40
1:G:109:PRO:N	1:G:159:VAL:HG11	1.20	1.40
1:G:202:THR:CG2	1:I:286:ASP:C	1.80	1.40
1:C:34:ILE:CG2	1:C:81:ASP:OD1	1.70	1.39
1:F:34:ILE:CG2	1:F:81:ASP:OD1	1.70	1.39
1:J:72:GLU:HB3	1:J:183:ARG:NH1	1.20	1.39
1:A:138:ALA:CB	1:A:154:ASP:HB2	1.40	1.39
1:D:110:LEU:HD11	1:D:178:LEU:N	1.23	1.39
1:E:74:GLY:CA	1:E:158:GLY:N	1.84	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:77:THR:CG2	1:E:183:ARG:HH12	1.33	1.39
1:B:74:GLY:CA	1:B:158:GLY:N	1.84	1.39
1:E:34:ILE:CG2	1:E:81:ASP:OD1	1.70	1.39
1:E:202:THR:CG2	1:G:286:ASP:C	1.80	1.39
1:A:246:GLN:H	1:C:322:PRO:CB	1.31	1.39
1:B:77:THR:CG2	1:B:183:ARG:HH12	1.33	1.39
1:B:110:LEU:HD11	1:B:178:LEU:N	1.23	1.39
1:F:138:ALA:CB	1:F:154:ASP:CB	1.81	1.39
1:H:34:ILE:CG2	1:H:81:ASP:OD1	1.70	1.39
1:I:74:GLY:HA3	1:I:158:GLY:N	1.14	1.39
1:J:34:ILE:CG2	1:J:81:ASP:OD1	1.70	1.38
1:J:77:THR:CG2	1:J:183:ARG:HH12	1.33	1.38
1:C:38:PRO:CB	1:E:169:TYR:CE1	2.05	1.38
1:H:77:THR:CG2	1:H:183:ARG:HH12	1.33	1.38
1:D:77:THR:CG2	1:D:183:ARG:HH12	1.33	1.38
1:A:245:GLY:C	1:C:324:THR:N	1.82	1.38
1:E:38:PRO:CB	1:G:169:TYR:CE1	2.05	1.38
1:E:245:GLY:C	1:G:324:THR:N	1.82	1.38
1:H:202:THR:CG2	1:J:286:ASP:O	1.64	1.38
1:I:34:ILE:CG2	1:I:81:ASP:OD1	1.70	1.38
1:I:74:GLY:CA	1:I:158:GLY:N	1.84	1.38
1:A:202:THR:HG23	1:C:286:ASP:C	1.11	1.37
1:C:138:ALA:CB	1:C:154:ASP:HB2	1.40	1.37
1:A:34:ILE:CG2	1:A:81:ASP:OD1	1.70	1.37
1:B:34:ILE:CG2	1:B:81:ASP:OD1	1.70	1.37
1:B:202:THR:HG23	1:D:286:ASP:C	1.11	1.37
1:D:34:ILE:CG2	1:D:81:ASP:OD1	1.70	1.37
1:F:77:THR:CG2	1:F:183:ARG:HH12	1.33	1.37
1:C:138:ALA:CB	1:C:154:ASP:CB	1.81	1.37
1:G:38:PRO:CB	1:I:169:TYR:CE1	2.05	1.37
1:H:42:GLY:CA	1:J:169:TYR:HA	1.51	1.37
1:H:245:GLY:C	1:J:324:THR:N	1.82	1.37
1:A:38:PRO:CB	1:C:169:TYR:CE1	2.05	1.36
1:D:38:PRO:CB	1:F:169:TYR:CE1	2.05	1.36
1:G:74:GLY:CA	1:G:158:GLY:N	1.84	1.36
1:G:245:GLY:C	1:I:324:THR:N	1.82	1.36
1:C:202:THR:CG2	1:E:286:ASP:O	1.64	1.36
1:D:138:ALA:CB	1:D:154:ASP:CB	1.81	1.36
1:F:42:GLY:CA	1:H:169:TYR:HA	1.51	1.36
1:D:245:GLY:C	1:F:324:THR:N	1.82	1.36
1:E:138:ALA:CB	1:E:154:ASP:HB2	1.40	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:34:ILE:CG2	1:G:81:ASP:OD1	1.70	1.36
1:F:245:GLY:C	1:H:324:THR:N	1.82	1.35
1:A:69:TYR:C	1:A:84:LYS:HA	1.48	1.35
1:F:38:PRO:CB	1:H:169:TYR:CZ	1.93	1.35
1:C:69:TYR:C	1:C:84:LYS:HA	1.48	1.35
1:G:138:ALA:CB	1:G:154:ASP:HB2	1.40	1.35
1:I:138:ALA:CB	1:I:154:ASP:HB2	1.40	1.35
1:H:202:THR:HG23	1:J:286:ASP:C	1.10	1.35
1:C:245:GLY:C	1:E:324:THR:N	1.82	1.35
1:E:69:TYR:C	1:E:84:LYS:HA	1.48	1.35
1:G:69:TYR:C	1:G:84:LYS:HA	1.48	1.35
1:I:69:TYR:C	1:I:84:LYS:HA	1.48	1.35
1:D:42:GLY:CA	1:F:169:TYR:HA	1.51	1.34
1:D:202:THR:HG23	1:F:286:ASP:C	1.11	1.34
1:F:202:THR:HG23	1:H:286:ASP:C	1.10	1.34
1:A:109:PRO:CD	1:A:159:VAL:HG13	1.57	1.33
1:B:42:GLY:CA	1:D:169:TYR:HA	1.51	1.33
1:B:138:ALA:CB	1:B:154:ASP:CB	1.81	1.33
1:B:245:GLY:C	1:D:324:THR:N	1.82	1.33
1:C:109:PRO:CD	1:C:159:VAL:HG13	1.57	1.33
1:H:38:PRO:CB	1:J:169:TYR:CE1	2.05	1.33
1:E:245:GLY:HA2	1:G:324:THR:C	1.54	1.33
1:G:245:GLY:HA2	1:I:324:THR:C	1.54	1.33
1:C:245:GLY:HA2	1:E:324:THR:C	1.54	1.32
1:E:109:PRO:CD	1:E:159:VAL:HG13	1.57	1.32
1:F:42:GLY:HA3	1:H:169:TYR:CG	1.64	1.32
1:B:42:GLY:HA3	1:D:169:TYR:CG	1.64	1.32
1:A:245:GLY:HA2	1:C:324:THR:C	1.54	1.32
1:C:42:GLY:HA3	1:E:169:TYR:CG	1.64	1.32
1:D:38:PRO:HB2	1:F:169:TYR:CZ	1.43	1.32
1:D:245:GLY:HA2	1:F:324:THR:C	1.54	1.32
1:G:38:PRO:HB2	1:I:169:TYR:CZ	1.43	1.32
1:B:245:GLY:HA2	1:D:324:THR:C	1.54	1.32
1:E:202:THR:HG23	1:G:286:ASP:C	1.11	1.32
1:F:245:GLY:HA2	1:H:324:THR:C	1.54	1.32
1:H:42:GLY:HA3	1:J:169:TYR:CG	1.64	1.32
1:H:245:GLY:HA2	1:J:324:THR:C	1.54	1.32
1:G:42:GLY:HA3	1:I:169:TYR:CG	1.64	1.31
1:G:109:PRO:CD	1:G:159:VAL:HG13	1.57	1.31
1:A:38:PRO:HB2	1:C:169:TYR:CZ	1.43	1.31
1:D:42:GLY:HA3	1:F:169:TYR:CG	1.64	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:42:GLY:HA3	1:G:169:TYR:CG	1.64	1.31
1:B:38:PRO:CB	1:D:169:TYR:CE1	2.05	1.31
1:A:138:ALA:CB	1:A:154:ASP:CB	1.81	1.31
1:C:38:PRO:HB2	1:E:169:TYR:CZ	1.43	1.31
1:F:42:GLY:N	1:H:169:TYR:CD1	1.99	1.31
1:G:110:LEU:HD11	1:G:177:ARG:C	0.98	1.31
1:E:38:PRO:HB2	1:G:169:TYR:CZ	1.43	1.30
1:F:50:LYS:CG	1:H:148:THR:HG21	1.61	1.30
1:I:109:PRO:CD	1:I:159:VAL:HG13	1.57	1.30
1:D:42:GLY:N	1:F:169:TYR:CD1	1.99	1.30
1:F:38:PRO:CB	1:H:169:TYR:CE1	2.05	1.30
1:A:110:LEU:HD11	1:A:177:ARG:C	0.98	1.30
1:H:42:GLY:N	1:J:169:TYR:CD1	1.99	1.30
1:H:50:LYS:CG	1:J:148:THR:HG21	1.61	1.30
1:H:245:GLY:O	1:J:324:THR:N	1.65	1.30
1:A:42:GLY:HA3	1:C:169:TYR:CG	1.64	1.29
1:E:42:GLY:N	1:G:169:TYR:CD1	1.99	1.29
1:G:50:LYS:CG	1:I:148:THR:HG21	1.61	1.29
1:F:245:GLY:O	1:H:324:THR:N	1.65	1.29
1:I:138:ALA:CB	1:I:154:ASP:CB	1.81	1.29
1:D:50:LYS:CG	1:F:148:THR:HG21	1.61	1.29
1:E:50:LYS:CG	1:G:148:THR:HG21	1.61	1.29
1:A:42:GLY:N	1:C:169:TYR:CD1	1.99	1.29
1:C:42:GLY:N	1:E:169:TYR:CD1	1.99	1.29
1:C:50:LYS:CG	1:E:148:THR:HG21	1.61	1.29
1:D:245:GLY:O	1:F:324:THR:N	1.65	1.28
1:F:202:THR:CG2	1:H:286:ASP:C	1.80	1.28
1:A:50:LYS:CG	1:C:148:THR:HG21	1.61	1.28
1:D:202:THR:CG2	1:F:286:ASP:C	1.80	1.28
1:B:42:GLY:N	1:D:169:TYR:CD1	1.99	1.28
1:B:142:LEU:CD1	1:B:152:VAL:CG2	2.12	1.28
1:I:142:LEU:CD1	1:I:152:VAL:CG2	2.12	1.28
1:F:38:PRO:CB	1:H:169:TYR:CD1	2.14	1.27
1:J:109:PRO:CD	1:J:159:VAL:HG13	1.57	1.27
1:D:110:LEU:HD11	1:D:177:ARG:C	0.98	1.27
1:D:142:LEU:CD1	1:D:152:VAL:CG2	2.12	1.27
1:G:42:GLY:N	1:I:169:TYR:CD1	1.99	1.27
1:G:142:LEU:CD1	1:G:152:VAL:CG2	2.12	1.27
1:G:245:GLY:O	1:I:324:THR:N	1.65	1.27
1:H:110:LEU:HD11	1:H:177:ARG:C	0.98	1.27
1:I:69:TYR:HB3	1:I:84:LYS:N	0.96	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:110:LEU:HD11	1:I:177:ARG:C	0.98	1.27
1:B:245:GLY:O	1:D:324:THR:N	1.65	1.27
1:D:110:LEU:N	1:D:161:HIS:HE1	1.32	1.27
1:B:109:PRO:CD	1:B:159:VAL:HG13	1.57	1.27
1:C:38:PRO:CB	1:E:169:TYR:CD1	2.14	1.27
1:G:69:TYR:HB3	1:G:84:LYS:N	0.96	1.27
1:B:50:LYS:CG	1:D:148:THR:HG21	1.61	1.27
1:B:69:TYR:HB3	1:B:84:LYS:N	0.96	1.26
1:H:109:PRO:CD	1:H:159:VAL:HG13	1.57	1.26
1:F:110:LEU:HD11	1:F:177:ARG:C	0.98	1.26
1:C:202:THR:HG23	1:E:286:ASP:C	1.11	1.26
1:D:109:PRO:CD	1:D:159:VAL:HG13	1.57	1.26
1:E:69:TYR:HB3	1:E:84:LYS:N	0.96	1.26
1:E:245:GLY:O	1:G:324:THR:N	1.65	1.26
1:F:38:PRO:HB2	1:H:169:TYR:CZ	1.43	1.26
1:C:110:LEU:HD11	1:C:177:ARG:C	0.98	1.26
1:D:38:PRO:CB	1:F:169:TYR:CD1	2.14	1.26
1:A:69:TYR:HB3	1:A:84:LYS:N	0.96	1.26
1:F:142:LEU:CD1	1:F:152:VAL:CG2	2.12	1.26
1:G:110:LEU:N	1:G:161:HIS:HE1	1.32	1.26
1:J:69:TYR:HB3	1:J:84:LYS:N	0.96	1.26
1:D:69:TYR:HB3	1:D:84:LYS:N	0.96	1.25
1:H:110:LEU:N	1:H:161:HIS:HE1	1.32	1.25
1:I:110:LEU:N	1:I:161:HIS:HE1	1.32	1.25
1:A:110:LEU:N	1:A:161:HIS:HE1	1.32	1.25
1:A:245:GLY:O	1:C:324:THR:N	1.65	1.25
1:C:69:TYR:HB3	1:C:84:LYS:N	0.96	1.25
1:E:142:LEU:CD1	1:E:152:VAL:CG2	2.12	1.25
1:H:69:TYR:HB3	1:H:84:LYS:N	0.96	1.25
1:J:110:LEU:HD11	1:J:177:ARG:C	0.98	1.25
1:A:142:LEU:CD1	1:A:152:VAL:CG2	2.12	1.25
1:C:142:LEU:CD1	1:C:152:VAL:CG2	2.12	1.25
1:C:245:GLY:O	1:E:324:THR:N	1.65	1.25
1:F:109:PRO:CD	1:F:159:VAL:HG13	1.57	1.25
1:J:142:LEU:CD1	1:J:152:VAL:CG2	2.12	1.25
1:B:69:TYR:C	1:B:84:LYS:HA	1.48	1.25
1:B:110:LEU:N	1:B:161:HIS:HE1	1.32	1.25
1:F:110:LEU:N	1:F:161:HIS:HE1	1.32	1.25
1:H:142:LEU:CD1	1:H:152:VAL:CG2	2.12	1.25
1:J:110:LEU:N	1:J:161:HIS:HE1	1.32	1.25
1:B:110:LEU:HD11	1:B:177:ARG:C	0.98	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:ALA:C	1:A:159:VAL:HG11	1.62	1.25
1:C:40:HIS:O	1:E:169:TYR:CD1	1.91	1.25
1:E:110:LEU:N	1:E:161:HIS:CE1	2.05	1.25
1:F:69:TYR:HB3	1:F:84:LYS:N	0.96	1.25
1:F:69:TYR:C	1:F:84:LYS:CA	2.07	1.24
1:I:110:LEU:N	1:I:161:HIS:CE1	2.05	1.24
1:B:38:PRO:CB	1:D:169:TYR:CD1	2.14	1.24
1:C:69:TYR:C	1:C:84:LYS:CA	2.07	1.24
1:C:108:ALA:C	1:C:159:VAL:HG11	1.62	1.24
1:D:69:TYR:C	1:D:84:LYS:HA	1.48	1.24
1:G:40:HIS:O	1:I:169:TYR:CD1	1.91	1.24
1:B:110:LEU:N	1:B:161:HIS:CE1	2.05	1.24
1:H:40:HIS:O	1:J:169:TYR:CD1	1.91	1.24
1:J:108:ALA:C	1:J:159:VAL:HG11	1.62	1.24
1:C:110:LEU:N	1:C:161:HIS:HE1	1.32	1.24
1:E:108:ALA:C	1:E:159:VAL:HG11	1.62	1.24
1:G:69:TYR:C	1:G:84:LYS:CA	2.07	1.24
1:C:110:LEU:N	1:C:161:HIS:CE1	2.05	1.24
1:E:110:LEU:N	1:E:161:HIS:HE1	1.32	1.24
1:G:110:LEU:N	1:G:161:HIS:CE1	2.05	1.24
1:H:108:ALA:C	1:H:159:VAL:HG11	1.62	1.24
1:D:110:LEU:N	1:D:161:HIS:CE1	2.05	1.23
1:A:40:HIS:O	1:C:169:TYR:CD1	1.91	1.23
1:A:110:LEU:N	1:A:161:HIS:CE1	2.05	1.23
1:D:204:ALA:CB	1:F:288:ASP:CA	2.17	1.23
1:F:108:ALA:C	1:F:159:VAL:HG11	1.62	1.23
1:G:108:ALA:C	1:G:159:VAL:HG11	1.62	1.23
1:H:204:ALA:CB	1:J:288:ASP:CA	2.17	1.23
1:A:38:PRO:CB	1:C:169:TYR:CD1	2.14	1.23
1:B:40:HIS:O	1:D:169:TYR:CD1	1.91	1.23
1:E:40:HIS:O	1:G:169:TYR:CD1	1.91	1.23
1:F:40:HIS:O	1:H:169:TYR:CD1	1.91	1.23
1:F:69:TYR:C	1:F:84:LYS:HA	1.48	1.23
1:I:108:ALA:C	1:I:159:VAL:HG11	1.62	1.23
1:A:69:TYR:C	1:A:84:LYS:CA	2.07	1.22
1:B:204:ALA:HB2	1:D:288:ASP:CA	1.69	1.22
1:D:40:HIS:O	1:F:169:TYR:CD1	1.91	1.22
1:E:69:TYR:C	1:E:84:LYS:CA	2.07	1.22
1:F:110:LEU:N	1:F:161:HIS:CE1	2.05	1.22
1:J:110:LEU:N	1:J:161:HIS:CE1	2.05	1.22
1:A:245:GLY:CA	1:C:325:MET:N	2.02	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:108:ALA:C	1:D:159:VAL:HG11	1.62	1.22
1:D:204:ALA:HB2	1:F:288:ASP:CA	1.69	1.22
1:E:245:GLY:CA	1:G:325:MET:N	2.02	1.22
1:I:69:TYR:C	1:I:84:LYS:CA	2.07	1.22
1:D:44:MET:HG3	1:F:150:GLY:N	1.33	1.22
1:G:38:PRO:CB	1:I:169:TYR:CD1	2.14	1.22
1:G:202:THR:HG23	1:I:286:ASP:C	1.11	1.22
1:H:110:LEU:N	1:H:161:HIS:CE1	2.05	1.22
1:B:108:ALA:C	1:B:159:VAL:HG11	1.62	1.22
1:F:44:MET:HG3	1:H:150:GLY:N	1.33	1.22
1:F:204:ALA:HB2	1:H:288:ASP:CA	1.69	1.22
1:F:245:GLY:CA	1:H:325:MET:N	2.02	1.22
1:G:204:ALA:HB2	1:I:288:ASP:CA	1.69	1.22
1:D:245:GLY:CA	1:F:325:MET:N	2.02	1.22
1:F:204:ALA:CB	1:H:288:ASP:CA	2.17	1.22
1:B:38:PRO:HB2	1:D:169:TYR:CZ	1.43	1.21
1:B:204:ALA:CB	1:D:288:ASP:CA	2.17	1.21
1:E:110:LEU:HD11	1:E:177:ARG:C	0.98	1.21
1:E:204:ALA:CB	1:G:288:ASP:CA	2.17	1.21
1:F:205:GLU:CG	1:H:287:VAL:CG1	2.03	1.21
1:C:109:PRO:HD2	1:C:159:VAL:CG1	1.66	1.21
1:C:110:LEU:H	1:C:161:HIS:CE1	1.58	1.21
1:E:109:PRO:HD2	1:E:159:VAL:CG1	1.66	1.21
1:F:245:GLY:HA3	1:H:322:PRO:O	1.37	1.21
1:G:110:LEU:H	1:G:161:HIS:CE1	1.58	1.21
1:G:204:ALA:CB	1:I:288:ASP:CA	2.17	1.21
1:G:245:GLY:CA	1:I:325:MET:N	2.02	1.21
1:H:245:GLY:CA	1:J:325:MET:N	2.02	1.21
1:B:245:GLY:HA3	1:D:322:PRO:O	1.37	1.21
1:C:245:GLY:HA3	1:E:322:PRO:O	1.37	1.21
1:G:109:PRO:HD2	1:G:159:VAL:CG1	1.66	1.21
1:A:204:ALA:CB	1:C:288:ASP:CA	2.17	1.21
1:B:245:GLY:CA	1:D:325:MET:N	2.02	1.21
1:E:42:GLY:CA	1:G:169:TYR:CA	2.19	1.21
1:H:69:TYR:C	1:H:84:LYS:HA	1.48	1.21
1:H:205:GLU:CG	1:J:287:VAL:CG1	2.03	1.21
1:A:109:PRO:HD2	1:A:159:VAL:CG1	1.66	1.21
1:A:245:GLY:HA3	1:C:322:PRO:O	1.37	1.21
1:C:204:ALA:CB	1:E:288:ASP:CA	2.17	1.21
1:B:44:MET:HG3	1:D:150:GLY:N	1.33	1.20
1:C:38:PRO:CB	1:E:169:TYR:CZ	1.93	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:42:GLY:CA	1:E:169:TYR:CA	2.19	1.20
1:C:245:GLY:CA	1:E:325:MET:N	2.02	1.20
1:D:205:GLU:CG	1:F:287:VAL:CG1	2.03	1.20
1:A:110:LEU:H	1:A:161:HIS:CE1	1.58	1.20
1:B:110:LEU:H	1:B:161:HIS:CE1	1.58	1.20
1:F:109:PRO:HD2	1:F:159:VAL:CG1	1.66	1.20
1:H:69:TYR:C	1:H:84:LYS:CA	2.07	1.20
1:I:109:PRO:HD2	1:I:159:VAL:CG1	1.66	1.20
1:C:246:GLN:N	1:E:322:PRO:CB	2.04	1.20
1:A:246:GLN:N	1:C:322:PRO:CB	2.05	1.20
1:B:69:TYR:C	1:B:84:LYS:CA	2.07	1.20
1:D:245:GLY:HA3	1:F:322:PRO:O	1.37	1.20
1:E:110:LEU:H	1:E:161:HIS:CE1	1.58	1.20
1:E:204:ALA:HB2	1:G:288:ASP:CA	1.69	1.20
1:E:246:GLN:N	1:G:322:PRO:CB	2.04	1.20
1:H:38:PRO:HB2	1:J:169:TYR:CZ	1.43	1.20
1:A:42:GLY:CA	1:C:169:TYR:CA	2.18	1.19
1:D:109:PRO:HD2	1:D:159:VAL:CG1	1.66	1.19
1:G:245:GLY:HA3	1:I:322:PRO:O	1.37	1.19
1:H:110:LEU:H	1:H:161:HIS:CE1	1.58	1.19
1:H:245:GLY:HA3	1:J:322:PRO:O	1.37	1.19
1:C:204:ALA:HB2	1:E:288:ASP:CA	1.69	1.19
1:D:38:PRO:CB	1:F:169:TYR:CZ	1.93	1.19
1:B:246:GLN:N	1:D:322:PRO:CB	2.04	1.19
1:D:246:GLN:N	1:F:322:PRO:CB	2.04	1.19
1:G:246:GLN:N	1:I:322:PRO:CB	2.04	1.19
1:J:69:TYR:C	1:J:84:LYS:CA	2.07	1.19
1:B:109:PRO:HD2	1:B:159:VAL:CG1	1.66	1.19
1:H:246:GLN:N	1:J:322:PRO:CB	2.04	1.19
1:I:110:LEU:H	1:I:161:HIS:CE1	1.58	1.19
1:A:204:ALA:HB2	1:C:288:ASP:CA	1.69	1.19
1:C:57:GLU:O	1:E:166:TYR:HE1	1.25	1.19
1:H:42:GLY:HA3	1:J:169:TYR:CA	1.73	1.19
1:H:204:ALA:HB2	1:J:288:ASP:CA	1.69	1.19
1:D:110:LEU:H	1:D:161:HIS:CE1	1.58	1.18
1:J:69:TYR:C	1:J:84:LYS:HA	1.48	1.18
1:E:57:GLU:O	1:G:166:TYR:HE1	1.25	1.18
1:F:110:LEU:HB2	1:F:159:VAL:CG2	1.73	1.18
1:H:110:LEU:HB2	1:H:159:VAL:CG2	1.73	1.18
1:A:245:GLY:CA	1:C:325:MET:H	1.57	1.18
1:C:205:GLU:CG	1:E:287:VAL:CG1	2.03	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:65:LEU:CD1	1:I:166:TYR:CE2	2.27	1.18
1:H:42:GLY:CA	1:J:169:TYR:CA	2.19	1.18
1:I:110:LEU:HB2	1:I:159:VAL:CG2	1.73	1.18
1:J:110:LEU:H	1:J:161:HIS:CE1	1.58	1.18
1:E:38:PRO:CB	1:G:169:TYR:CD1	2.14	1.18
1:E:44:MET:HG3	1:G:150:GLY:N	1.33	1.18
1:E:65:LEU:CD1	1:G:166:TYR:CE2	2.27	1.18
1:E:110:LEU:CD1	1:E:177:ARG:C	1.90	1.18
1:F:246:GLN:N	1:H:322:PRO:CB	2.04	1.18
1:G:245:GLY:CA	1:I:325:MET:H	1.57	1.18
1:B:205:GLU:CG	1:D:287:VAL:CG1	2.03	1.18
1:E:245:GLY:HA3	1:G:322:PRO:O	1.37	1.18
1:B:65:LEU:CD1	1:D:166:TYR:CE2	2.27	1.17
1:C:65:LEU:CD1	1:E:166:TYR:CE2	2.27	1.17
1:J:110:LEU:HB2	1:J:159:VAL:CG2	1.73	1.17
1:A:205:GLU:CG	1:C:287:VAL:CG1	2.03	1.17
1:B:57:GLU:O	1:D:166:TYR:HE1	1.25	1.17
1:C:110:LEU:HB2	1:C:159:VAL:CG2	1.73	1.17
1:C:245:GLY:CA	1:E:325:MET:H	1.57	1.17
1:F:110:LEU:H	1:F:161:HIS:CE1	1.58	1.17
1:H:44:MET:HG3	1:J:150:GLY:N	1.33	1.17
1:A:110:LEU:HB2	1:A:159:VAL:CG2	1.73	1.17
1:D:110:LEU:HB2	1:D:159:VAL:CG2	1.73	1.17
1:J:109:PRO:HD2	1:J:159:VAL:CG1	1.66	1.17
1:B:110:LEU:HB2	1:B:159:VAL:CG2	1.74	1.17
1:D:65:LEU:CD1	1:F:166:TYR:CE2	2.27	1.17
1:E:74:GLY:HA2	1:E:157:ASP:HB3	1.26	1.17
1:E:110:LEU:HB2	1:E:159:VAL:CG2	1.73	1.17
1:H:57:GLU:O	1:J:166:TYR:HE1	1.25	1.17
1:A:65:LEU:CD1	1:C:166:TYR:CE2	2.27	1.16
1:E:42:GLY:HA3	1:G:169:TYR:CA	1.72	1.16
1:F:34:ILE:HG23	1:F:84:LYS:HG3	1.16	1.16
1:F:42:GLY:CA	1:H:169:TYR:CA	2.19	1.16
1:G:110:LEU:HB2	1:G:159:VAL:CG2	1.73	1.16
1:A:57:GLU:O	1:C:166:TYR:HE1	1.25	1.16
1:B:245:GLY:CA	1:D:325:MET:H	1.57	1.16
1:C:42:GLY:HA3	1:E:169:TYR:CA	1.72	1.16
1:F:57:GLU:O	1:H:166:TYR:HE1	1.25	1.16
1:F:65:LEU:CD1	1:H:166:TYR:CE2	2.27	1.16
1:G:42:GLY:HA3	1:I:169:TYR:CA	1.72	1.16
1:G:205:GLU:CG	1:I:287:VAL:CG1	2.04	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:65:LEU:CD1	1:J:166:TYR:CE2	2.27	1.16
1:D:34:ILE:HG23	1:D:84:LYS:HG3	1.17	1.16
1:H:202:THR:HG22	1:J:286:ASP:O	1.42	1.16
1:A:42:GLY:HA3	1:C:169:TYR:CA	1.72	1.16
1:A:246:GLN:H	1:C:322:PRO:HB2	1.10	1.16
1:D:69:TYR:C	1:D:84:LYS:CA	2.07	1.16
1:H:34:ILE:HG23	1:H:84:LYS:HG3	1.17	1.16
1:B:246:GLN:H	1:D:322:PRO:HB2	1.10	1.16
1:G:57:GLU:O	1:I:166:TYR:HE1	1.25	1.16
1:A:48:GLY:N	1:C:148:THR:HG23	1.61	1.15
1:E:245:GLY:CA	1:G:325:MET:H	1.57	1.15
1:A:74:GLY:HA2	1:A:157:ASP:HB3	1.26	1.15
1:H:48:GLY:N	1:J:148:THR:HG23	1.61	1.15
1:H:109:PRO:HD2	1:H:159:VAL:CG1	1.66	1.15
1:D:57:GLU:O	1:F:166:TYR:HE1	1.25	1.15
1:C:48:GLY:N	1:E:148:THR:HG23	1.61	1.15
1:D:42:GLY:CA	1:F:169:TYR:CA	2.19	1.15
1:G:38:PRO:CB	1:I:169:TYR:CZ	1.93	1.15
1:H:246:GLN:H	1:J:322:PRO:HB2	1.10	1.15
1:I:74:GLY:HA2	1:I:157:ASP:HB3	1.26	1.15
1:C:246:GLN:H	1:E:322:PRO:HB2	1.10	1.15
1:J:34:ILE:HG23	1:J:84:LYS:HG3	1.17	1.15
1:B:34:ILE:HG23	1:B:84:LYS:HG3	1.17	1.14
1:A:34:ILE:HG23	1:A:84:LYS:HG3	1.17	1.14
1:B:202:THR:HG22	1:D:286:ASP:O	1.42	1.14
1:H:38:PRO:CB	1:J:169:TYR:CD1	2.14	1.14
1:B:38:PRO:CB	1:D:169:TYR:CZ	1.93	1.14
1:B:44:MET:SD	1:D:142:LEU:HD11	1.88	1.14
1:B:48:GLY:N	1:D:148:THR:HG23	1.61	1.14
1:D:245:GLY:CA	1:F:325:MET:H	1.57	1.14
1:E:34:ILE:CG2	1:E:84:LYS:HG3	1.78	1.14
1:F:48:GLY:N	1:H:148:THR:HG23	1.61	1.14
1:B:245:GLY:O	1:D:323:SER:C	1.91	1.14
1:C:44:MET:SD	1:E:142:LEU:HD11	1.88	1.14
1:E:44:MET:SD	1:G:142:LEU:HD11	1.88	1.14
1:E:48:GLY:N	1:G:148:THR:HG23	1.61	1.14
1:A:44:MET:SD	1:C:142:LEU:HD11	1.88	1.14
1:C:42:GLY:CA	1:E:169:TYR:CD1	2.31	1.14
1:C:74:GLY:HA2	1:C:157:ASP:HB3	1.26	1.14
1:C:245:GLY:O	1:E:323:SER:C	1.91	1.14
1:D:44:MET:SD	1:F:142:LEU:HD11	1.88	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:44:MET:SD	1:I:142:LEU:HD11	1.88	1.14
1:G:48:GLY:N	1:I:148:THR:HG23	1.61	1.14
1:H:245:GLY:CA	1:J:324:THR:CA	2.18	1.14
1:C:34:ILE:CG2	1:C:84:LYS:HG3	1.78	1.13
1:F:245:GLY:CA	1:H:324:THR:CA	2.18	1.13
1:G:34:ILE:CG2	1:G:84:LYS:HG3	1.78	1.13
1:C:34:ILE:HG23	1:C:84:LYS:HG3	1.17	1.13
1:D:48:GLY:N	1:F:148:THR:HG23	1.61	1.13
1:E:42:GLY:CA	1:G:169:TYR:CD1	2.31	1.13
1:G:42:GLY:CA	1:I:169:TYR:CD1	2.31	1.13
1:G:74:GLY:HA2	1:G:157:ASP:HB3	1.26	1.13
1:A:42:GLY:CA	1:C:169:TYR:CD1	2.31	1.13
1:D:245:GLY:O	1:F:323:SER:C	1.91	1.13
1:D:245:GLY:CA	1:F:324:THR:CA	2.18	1.13
1:G:245:GLY:CA	1:I:324:THR:CA	2.18	1.13
1:A:44:MET:HG3	1:C:150:GLY:N	1.33	1.12
1:A:77:THR:HG21	1:A:183:ARG:HH12	1.01	1.13
1:B:42:GLY:CA	1:D:169:TYR:CA	2.19	1.13
1:B:77:THR:CG2	1:B:183:ARG:NH1	2.12	1.13
1:C:77:THR:HG21	1:C:183:ARG:HH12	1.01	1.12
1:D:42:GLY:CA	1:F:169:TYR:CD1	2.31	1.13
1:G:245:GLY:O	1:I:323:SER:C	1.91	1.13
1:H:44:MET:SD	1:J:142:LEU:HD11	1.88	1.13
1:D:246:GLN:H	1:F:322:PRO:HB2	1.10	1.12
1:G:64:ILE:HG21	1:I:171:LEU:HD22	1.30	1.12
1:H:245:GLY:CA	1:J:325:MET:H	1.57	1.12
1:H:245:GLY:O	1:J:323:SER:C	1.91	1.12
1:I:34:ILE:CG2	1:I:84:LYS:HG3	1.78	1.12
1:A:245:GLY:O	1:C:323:SER:C	1.91	1.12
1:B:42:GLY:CA	1:D:169:TYR:CD1	2.31	1.12
1:B:109:PRO:CA	1:B:159:VAL:HG11	1.67	1.12
1:D:77:THR:CG2	1:D:183:ARG:NH1	2.12	1.12
1:F:44:MET:SD	1:H:142:LEU:HD11	1.88	1.12
1:H:34:ILE:CG2	1:H:84:LYS:HG3	1.78	1.12
1:B:34:ILE:CG2	1:B:84:LYS:HG3	1.78	1.12
1:F:34:ILE:CG2	1:F:84:LYS:HG3	1.78	1.12
1:J:34:ILE:CG2	1:J:84:LYS:HG3	1.78	1.12
1:D:245:GLY:HA3	1:F:325:MET:H	1.14	1.12
1:A:34:ILE:CG2	1:A:84:LYS:HG3	1.78	1.12
1:B:138:ALA:HB2	1:B:154:ASP:HB3	1.20	1.12
1:D:34:ILE:CG2	1:D:84:LYS:HG3	1.78	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:34:ILE:HG23	1:E:84:LYS:HG3	1.17	1.12
1:F:245:GLY:O	1:H:323:SER:C	1.91	1.12
1:G:202:THR:HG22	1:I:286:ASP:O	1.42	1.12
1:G:246:GLN:H	1:I:322:PRO:HB2	1.10	1.12
1:H:38:PRO:CB	1:J:169:TYR:CZ	1.93	1.12
1:H:42:GLY:CA	1:J:169:TYR:CD1	2.31	1.12
1:I:110:LEU:CD1	1:I:177:ARG:C	1.90	1.12
1:J:77:THR:CG2	1:J:183:ARG:NH1	2.12	1.12
1:B:245:GLY:CA	1:D:324:THR:CA	2.18	1.11
1:D:109:PRO:CA	1:D:159:VAL:HG11	1.67	1.11
1:D:202:THR:HG22	1:F:286:ASP:O	1.42	1.11
1:E:245:GLY:O	1:G:323:SER:C	1.91	1.11
1:F:77:THR:CG2	1:F:183:ARG:NH1	2.12	1.11
1:F:77:THR:HG21	1:F:183:ARG:HH12	1.01	1.11
1:F:202:THR:HG22	1:H:286:ASP:O	1.42	1.11
1:F:245:GLY:CA	1:H:325:MET:H	1.57	1.11
1:G:42:GLY:CA	1:I:169:TYR:CA	2.18	1.11
1:G:138:ALA:HB1	1:G:154:ASP:HB2	1.13	1.11
1:B:42:GLY:HA3	1:D:169:TYR:CA	1.73	1.11
1:E:77:THR:HG21	1:E:183:ARG:HH12	1.01	1.11
1:I:77:THR:CG2	1:I:183:ARG:NH1	2.12	1.11
1:B:64:ILE:HG21	1:D:171:LEU:HD22	1.30	1.11
1:D:138:ALA:HB2	1:D:154:ASP:HB3	1.20	1.11
1:E:245:GLY:CA	1:G:324:THR:CA	2.18	1.11
1:H:77:THR:HG21	1:H:183:ARG:HH12	1.01	1.11
1:B:204:ALA:H	1:D:288:ASP:N	1.24	1.11
1:D:64:ILE:HG21	1:F:171:LEU:HD22	1.30	1.11
1:F:42:GLY:CA	1:H:169:TYR:CD1	2.31	1.11
1:G:34:ILE:HG23	1:G:84:LYS:HG3	1.17	1.11
1:E:77:THR:CG2	1:E:183:ARG:NH1	2.12	1.10
1:E:142:LEU:HD13	1:E:152:VAL:HG21	1.30	1.10
1:F:110:LEU:HD12	1:F:178:LEU:N	1.64	1.10
1:F:142:LEU:HD13	1:F:152:VAL:HG21	1.30	1.10
1:G:142:LEU:HD13	1:G:152:VAL:HG21	1.30	1.10
1:H:77:THR:CG2	1:H:183:ARG:NH1	2.12	1.10
1:D:142:LEU:HD13	1:D:152:VAL:HG21	1.30	1.10
1:G:77:THR:CG2	1:G:183:ARG:NH1	2.12	1.10
1:D:77:THR:HG21	1:D:183:ARG:HH12	1.01	1.10
1:E:64:ILE:HG21	1:G:171:LEU:HD22	1.30	1.10
1:F:245:GLY:HA3	1:H:325:MET:H	1.14	1.10
1:J:74:GLY:HA2	1:J:157:ASP:HB3	1.26	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:77:THR:CG2	1:C:183:ARG:NH1	2.12	1.10
1:D:204:ALA:H	1:F:288:ASP:N	1.24	1.10
1:G:45:VAL:HB	1:I:152:VAL:HG21	1.32	1.10
1:H:109:PRO:CA	1:H:159:VAL:HG11	1.67	1.10
1:I:34:ILE:HG23	1:I:84:LYS:HG3	1.17	1.10
1:A:38:PRO:CB	1:C:169:TYR:CZ	1.93	1.10
1:B:245:GLY:HA3	1:D:325:MET:H	1.14	1.10
1:D:74:GLY:HA2	1:D:157:ASP:HB3	1.26	1.10
1:F:109:PRO:CA	1:F:159:VAL:HG11	1.67	1.10
1:F:138:ALA:HB2	1:F:154:ASP:HB3	1.20	1.10
1:G:110:LEU:HD12	1:G:178:LEU:N	1.64	1.10
1:I:110:LEU:HD12	1:I:178:LEU:N	1.64	1.10
1:A:245:GLY:HA3	1:C:325:MET:H	1.14	1.09
1:A:202:THR:HG22	1:C:286:ASP:O	1.42	1.09
1:D:42:GLY:HA3	1:F:169:TYR:CA	1.72	1.09
1:H:245:GLY:C	1:J:324:THR:OG1	1.96	1.09
1:I:142:LEU:HD13	1:I:152:VAL:HG21	1.30	1.09
1:C:64:ILE:HG21	1:E:171:LEU:HD22	1.30	1.09
1:C:142:LEU:HD13	1:C:152:VAL:HG21	1.30	1.09
1:E:246:GLN:H	1:G:322:PRO:HB2	1.10	1.09
1:G:44:MET:CG	1:I:165:ILE:HB	1.80	1.09
1:H:142:LEU:HD13	1:H:152:VAL:HG21	1.30	1.09
1:J:138:ALA:HB2	1:J:154:ASP:HB3	1.20	1.09
1:A:204:ALA:HB3	1:C:288:ASP:HA	1.33	1.09
1:B:44:MET:HG2	1:D:165:ILE:HB	1.34	1.09
1:C:138:ALA:HB1	1:C:154:ASP:HB2	1.13	1.09
1:C:245:GLY:C	1:E:324:THR:OG1	1.96	1.09
1:E:245:GLY:C	1:G:324:THR:OG1	1.96	1.09
1:H:110:LEU:HD12	1:H:178:LEU:N	1.64	1.09
1:A:77:THR:CG2	1:A:183:ARG:NH1	2.12	1.09
1:C:202:THR:HG22	1:E:286:ASP:O	1.42	1.09
1:C:245:GLY:CA	1:E:324:THR:CA	2.18	1.09
1:E:205:GLU:CG	1:G:287:VAL:CG1	2.03	1.09
1:F:204:ALA:H	1:H:288:ASP:N	1.24	1.09
1:G:77:THR:HG21	1:G:183:ARG:HH12	1.01	1.09
1:H:245:GLY:C	1:J:323:SER:N	2.11	1.09
1:J:77:THR:HG21	1:J:183:ARG:HH12	1.01	1.09
1:A:245:GLY:C	1:C:323:SER:N	2.11	1.08
1:C:110:LEU:CD1	1:C:177:ARG:C	1.90	1.08
1:C:204:ALA:HB3	1:E:288:ASP:HA	1.34	1.08
1:E:45:VAL:HB	1:G:152:VAL:HG21	1.32	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:245:GLY:C	1:H:323:SER:N	2.11	1.08
1:F:246:GLN:H	1:H:322:PRO:HB2	1.10	1.08
1:I:109:PRO:CA	1:I:159:VAL:HG11	1.67	1.08
1:B:142:LEU:HD13	1:B:152:VAL:HG21	1.30	1.08
1:B:245:GLY:C	1:D:322:PRO:C	2.22	1.08
1:C:245:GLY:C	1:E:323:SER:N	2.11	1.08
1:D:245:GLY:C	1:F:323:SER:N	2.11	1.08
1:D:245:GLY:C	1:F:324:THR:OG1	1.96	1.08
1:E:204:ALA:HB3	1:G:288:ASP:HA	1.33	1.08
1:G:245:GLY:HA3	1:I:325:MET:H	1.14	1.08
1:H:74:GLY:HA2	1:H:157:ASP:HB3	1.26	1.08
1:H:138:ALA:HB2	1:H:154:ASP:HB3	1.20	1.08
1:B:77:THR:HG21	1:B:183:ARG:HH12	1.01	1.08
1:E:138:ALA:HB2	1:E:154:ASP:HB3	1.20	1.08
1:E:245:GLY:C	1:G:323:SER:N	2.11	1.08
1:G:138:ALA:HB2	1:G:154:ASP:HB3	1.20	1.08
1:G:204:ALA:HB3	1:I:288:ASP:HA	1.34	1.08
1:I:138:ALA:HB2	1:I:154:ASP:HB3	1.20	1.08
1:J:109:PRO:CA	1:J:159:VAL:HG11	1.67	1.08
1:B:245:GLY:C	1:D:323:SER:N	2.11	1.08
1:D:204:ALA:HB2	1:F:288:ASP:HA	1.21	1.08
1:F:64:ILE:HG21	1:H:171:LEU:HD22	1.30	1.08
1:F:245:GLY:C	1:H:324:THR:OG1	1.96	1.08
1:G:44:MET:HG3	1:I:150:GLY:N	1.33	1.08
1:I:138:ALA:HB1	1:I:154:ASP:HB2	1.13	1.08
1:J:138:ALA:HB1	1:J:154:ASP:HB2	1.13	1.08
1:A:64:ILE:HG21	1:C:171:LEU:HD22	1.30	1.07
1:A:138:ALA:HB2	1:A:154:ASP:HB3	1.20	1.07
1:A:245:GLY:C	1:C:324:THR:OG1	1.96	1.07
1:A:246:GLN:N	1:C:322:PRO:C	2.12	1.07
1:B:138:ALA:HB1	1:B:154:ASP:HB2	1.13	1.07
1:B:245:GLY:C	1:D:324:THR:OG1	1.96	1.07
1:E:202:THR:HG22	1:G:286:ASP:O	1.42	1.07
1:F:42:GLY:HA3	1:H:169:TYR:CA	1.73	1.07
1:F:204:ALA:HB2	1:H:288:ASP:HA	1.21	1.07
1:G:204:ALA:H	1:I:288:ASP:N	1.24	1.07
1:G:246:GLN:N	1:I:322:PRO:C	2.12	1.07
1:H:45:VAL:HB	1:J:152:VAL:HG21	1.32	1.07
1:B:72:GLU:HG3	1:B:183:ARG:CG	1.83	1.07
1:B:204:ALA:HB2	1:D:288:ASP:HA	1.21	1.07
1:C:41:GLN:HE21	1:E:355:MET:HE1	0.90	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:44:MET:HG3	1:E:150:GLY:N	1.33	1.07
1:C:138:ALA:HB2	1:C:154:ASP:HB3	1.20	1.07
1:D:245:GLY:C	1:F:322:PRO:C	2.22	1.07
1:E:138:ALA:HB1	1:E:154:ASP:HB2	1.13	1.07
1:G:41:GLN:HE21	1:I:355:MET:HE1	0.90	1.07
1:H:64:ILE:HG21	1:J:171:LEU:HD22	1.30	1.07
1:H:204:ALA:HB3	1:J:288:ASP:HA	1.34	1.07
1:J:110:LEU:HD12	1:J:178:LEU:N	1.64	1.07
1:B:110:LEU:HD12	1:B:178:LEU:N	1.64	1.07
1:C:246:GLN:N	1:E:322:PRO:C	2.12	1.07
1:E:245:GLY:HA3	1:G:325:MET:H	1.14	1.07
1:F:74:GLY:HA2	1:F:157:ASP:HB3	1.26	1.07
1:G:38:PRO:HB3	1:I:169:TYR:CD1	1.63	1.07
1:G:245:GLY:C	1:I:323:SER:N	2.11	1.07
1:C:41:GLN:HE21	1:E:355:MET:CE	1.68	1.07
1:D:41:GLN:HE21	1:F:355:MET:CE	1.68	1.07
1:E:245:GLY:C	1:G:322:PRO:C	2.22	1.07
1:F:42:GLY:HA3	1:H:169:TYR:CD1	1.90	1.07
1:F:45:VAL:HB	1:H:152:VAL:HG21	1.32	1.07
1:F:245:GLY:C	1:H:322:PRO:C	2.22	1.07
1:G:109:PRO:CA	1:G:159:VAL:HG11	1.67	1.07
1:G:245:GLY:C	1:I:322:PRO:C	2.22	1.07
1:H:41:GLN:HE21	1:J:355:MET:HE1	0.90	1.07
1:H:204:ALA:H	1:J:288:ASP:N	1.24	1.07
1:H:245:GLY:HA2	1:J:324:THR:N	1.44	1.07
1:H:245:GLY:C	1:J:322:PRO:C	2.22	1.07
1:A:142:LEU:HD13	1:A:152:VAL:HG21	1.30	1.07
1:B:74:GLY:HA2	1:B:157:ASP:HB3	1.26	1.07
1:C:34:ILE:HG21	1:C:81:ASP:OD1	0.89	1.07
1:C:45:VAL:HB	1:E:152:VAL:HG21	1.32	1.07
1:C:245:GLY:C	1:E:322:PRO:C	2.22	1.07
1:D:41:GLN:HE21	1:F:355:MET:HE1	0.90	1.07
1:D:138:ALA:HB1	1:D:154:ASP:HB2	1.13	1.07
1:F:138:ALA:HB1	1:F:154:ASP:HB2	1.13	1.07
1:G:50:LYS:HG3	1:I:148:THR:HG21	1.09	1.07
1:G:245:GLY:C	1:I:324:THR:OG1	1.96	1.07
1:H:34:ILE:HG21	1:H:81:ASP:OD1	0.89	1.07
1:H:204:ALA:HB2	1:J:288:ASP:HA	1.21	1.07
1:A:41:GLN:HE21	1:C:355:MET:CE	1.68	1.06
1:B:41:GLN:HE21	1:D:355:MET:CE	1.68	1.06
1:B:42:GLY:HA3	1:D:169:TYR:CD1	1.90	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:45:VAL:HB	1:D:152:VAL:HG21	1.32	1.06
1:D:34:ILE:HG21	1:D:81:ASP:OD1	0.89	1.06
1:D:72:GLU:HG3	1:D:183:ARG:CG	1.83	1.06
1:F:41:GLN:HE21	1:H:355:MET:CE	1.68	1.06
1:F:204:ALA:HB3	1:H:288:ASP:HA	1.33	1.06
1:G:34:ILE:HG21	1:G:81:ASP:OD1	0.89	1.06
1:J:69:TYR:CB	1:J:84:LYS:N	1.76	1.06
1:A:50:LYS:HG3	1:C:148:THR:HG21	1.09	1.06
1:A:245:GLY:CA	1:C:324:THR:CA	2.18	1.06
1:B:74:GLY:CA	1:B:157:ASP:HB3	1.86	1.06
1:C:72:GLU:HG3	1:C:183:ARG:CG	1.83	1.06
1:D:74:GLY:CA	1:D:157:ASP:HB3	1.86	1.06
1:A:138:ALA:HB1	1:A:154:ASP:HB2	1.13	1.06
1:B:204:ALA:HB3	1:D:288:ASP:HA	1.34	1.06
1:D:50:LYS:HG3	1:F:148:THR:HG21	1.09	1.06
1:D:204:ALA:HB3	1:F:288:ASP:HA	1.33	1.06
1:E:41:GLN:HE21	1:G:355:MET:CE	1.68	1.06
1:E:204:ALA:H	1:G:288:ASP:N	1.24	1.06
1:J:142:LEU:HD13	1:J:152:VAL:HG21	1.30	1.06
1:B:246:GLN:N	1:D:322:PRO:C	2.12	1.06
1:E:72:GLU:HG3	1:E:183:ARG:CG	1.83	1.06
1:E:246:GLN:N	1:G:322:PRO:C	2.12	1.06
1:F:246:GLN:N	1:H:322:PRO:C	2.12	1.06
1:G:74:GLY:CA	1:G:157:ASP:HB3	1.86	1.06
1:I:109:PRO:CA	1:I:159:VAL:CG1	2.28	1.06
1:E:44:MET:HG2	1:G:165:ILE:HB	1.34	1.06
1:F:74:GLY:CA	1:F:157:ASP:HB3	1.86	1.06
1:H:41:GLN:HE21	1:J:355:MET:CE	1.68	1.06
1:H:42:GLY:HA3	1:J:169:TYR:CD1	1.90	1.06
1:H:44:MET:HG2	1:J:165:ILE:HB	1.33	1.06
1:H:245:GLY:HA3	1:J:325:MET:H	1.14	1.06
1:I:34:ILE:HG21	1:I:81:ASP:OD1	0.89	1.06
1:I:74:GLY:CA	1:I:157:ASP:HB3	1.86	1.06
1:J:34:ILE:HG21	1:J:81:ASP:OD1	0.89	1.06
1:A:45:VAL:HB	1:C:152:VAL:HG21	1.32	1.05
1:D:42:GLY:HA3	1:F:169:TYR:CD1	1.90	1.05
1:D:45:VAL:HB	1:F:152:VAL:HG21	1.32	1.05
1:D:246:GLN:N	1:F:322:PRO:C	2.12	1.05
1:E:38:PRO:CB	1:G:169:TYR:CZ	1.93	1.05
1:F:34:ILE:HG21	1:F:81:ASP:OD1	0.89	1.05
1:F:50:LYS:HG3	1:H:148:THR:HG21	1.09	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:41:GLN:HE21	1:I:355:MET:CE	1.68	1.05
1:A:245:GLY:C	1:C:322:PRO:C	2.22	1.05
1:C:50:LYS:HG3	1:E:148:THR:HG21	1.09	1.05
1:D:202:THR:CG2	1:F:290:ARG:HG3	1.86	1.05
1:E:110:LEU:HD12	1:E:178:LEU:N	1.65	1.05
1:G:44:MET:HG2	1:I:165:ILE:HB	1.34	1.05
1:A:34:ILE:HG21	1:A:81:ASP:OD1	0.89	1.05
1:A:202:THR:CG2	1:C:290:ARG:HG3	1.86	1.05
1:B:34:ILE:HG21	1:B:81:ASP:OD1	0.89	1.05
1:B:50:LYS:HG3	1:D:148:THR:HG21	1.09	1.05
1:B:202:THR:CG2	1:D:290:ARG:HG3	1.86	1.05
1:C:202:THR:CG2	1:E:290:ARG:HG3	1.86	1.05
1:E:34:ILE:HG21	1:E:81:ASP:OD1	0.89	1.05
1:E:74:GLY:CA	1:E:157:ASP:HB3	1.86	1.05
1:E:109:PRO:CA	1:E:159:VAL:HG11	1.67	1.05
1:E:202:THR:CG2	1:G:290:ARG:HG3	1.86	1.05
1:F:245:GLY:HA2	1:H:324:THR:N	1.44	1.05
1:H:246:GLN:N	1:J:322:PRO:C	2.12	1.05
1:I:77:THR:HG21	1:I:183:ARG:HH12	1.01	1.05
1:A:74:GLY:CA	1:A:157:ASP:HB3	1.86	1.05
1:C:44:MET:HG2	1:E:165:ILE:HB	1.34	1.05
1:D:42:GLY:HA3	1:F:169:TYR:CB	1.87	1.05
1:F:72:GLU:HG3	1:F:183:ARG:CG	1.83	1.05
1:F:202:THR:HG21	1:H:290:ARG:CG	1.87	1.05
1:J:74:GLY:CA	1:J:157:ASP:HB3	1.86	1.05
1:C:245:GLY:HA3	1:E:325:MET:H	1.14	1.05
1:F:42:GLY:HA3	1:H:169:TYR:CB	1.87	1.05
1:G:202:THR:CG2	1:I:290:ARG:HG3	1.86	1.05
1:G:204:ALA:HB2	1:I:288:ASP:HA	1.21	1.05
1:H:50:LYS:HG3	1:J:148:THR:HG21	1.09	1.05
1:A:44:MET:HG2	1:C:165:ILE:HB	1.33	1.04
1:B:41:GLN:HE21	1:D:355:MET:HE1	0.90	1.04
1:C:204:ALA:H	1:E:288:ASP:N	1.24	1.04
1:D:202:THR:HG21	1:F:290:ARG:CG	1.87	1.04
1:E:38:PRO:HB3	1:G:169:TYR:CD1	1.63	1.04
1:E:50:LYS:HG3	1:G:148:THR:HG21	1.09	1.04
1:F:44:MET:HG2	1:H:165:ILE:HB	1.34	1.04
1:H:74:GLY:CA	1:H:157:ASP:HB3	1.86	1.04
1:A:42:GLY:HA3	1:C:169:TYR:CD1	1.90	1.04
1:A:110:LEU:HD12	1:A:178:LEU:N	1.64	1.04
1:B:34:ILE:HG23	1:B:84:LYS:CG	1.88	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:69:TYR:CB	1:C:84:LYS:N	1.76	1.04
1:F:202:THR:CG2	1:H:290:ARG:HG3	1.86	1.04
1:G:204:ALA:N	1:I:288:ASP:N	2.05	1.04
1:H:69:TYR:CB	1:H:84:LYS:N	1.76	1.04
1:B:42:GLY:HA3	1:D:169:TYR:CB	1.87	1.04
1:C:110:LEU:HD12	1:C:178:LEU:N	1.64	1.04
1:D:110:LEU:HD12	1:D:178:LEU:N	1.64	1.04
1:E:204:ALA:HB2	1:G:288:ASP:HA	1.21	1.04
1:J:34:ILE:HG23	1:J:84:LYS:CG	1.88	1.04
1:A:204:ALA:N	1:C:288:ASP:N	2.05	1.04
1:B:57:GLU:O	1:D:166:TYR:CE1	2.11	1.04
1:B:202:THR:HG21	1:D:290:ARG:CG	1.87	1.04
1:D:34:ILE:HG23	1:D:84:LYS:CG	1.88	1.04
1:D:44:MET:HG2	1:F:165:ILE:HB	1.34	1.04
1:E:42:GLY:HA3	1:G:169:TYR:CB	1.86	1.04
1:E:42:GLY:HA3	1:G:169:TYR:CD1	1.90	1.04
1:F:38:PRO:HB3	1:H:169:TYR:CD1	1.63	1.04
1:G:42:GLY:HA3	1:I:169:TYR:CD1	1.90	1.04
1:A:42:GLY:HA3	1:C:169:TYR:CB	1.86	1.04
1:C:109:PRO:CA	1:C:159:VAL:HG11	1.67	1.04
1:C:204:ALA:HB2	1:E:288:ASP:HA	1.21	1.04
1:D:245:GLY:HA2	1:F:324:THR:N	1.44	1.04
1:H:42:GLY:HA3	1:J:169:TYR:CB	1.87	1.04
1:A:34:ILE:HG23	1:A:84:LYS:CG	1.88	1.03
1:A:41:GLN:HE21	1:C:355:MET:HE1	0.90	1.03
1:C:42:GLY:HA3	1:E:169:TYR:CB	1.86	1.03
1:C:44:MET:CG	1:E:150:GLY:N	2.21	1.03
1:C:50:LYS:HB2	1:E:148:THR:CG2	1.88	1.03
1:E:204:ALA:N	1:G:288:ASP:N	2.05	1.03
1:G:41:GLN:NE2	1:I:355:MET:HE1	1.73	1.03
1:G:42:GLY:HA3	1:I:169:TYR:CB	1.87	1.03
1:G:42:GLY:HA2	1:I:169:TYR:HA	1.04	1.03
1:G:44:MET:CG	1:I:150:GLY:N	2.21	1.03
1:H:34:ILE:HG23	1:H:84:LYS:CG	1.88	1.03
1:H:109:PRO:HD2	1:H:159:VAL:HG12	1.40	1.03
1:H:138:ALA:HB1	1:H:154:ASP:HB2	1.13	1.03
1:H:202:THR:CG2	1:J:290:ARG:HG3	1.86	1.03
1:A:44:MET:CG	1:C:150:GLY:N	2.21	1.03
1:A:109:PRO:CA	1:A:159:VAL:HG11	1.67	1.03
1:A:202:THR:HG21	1:C:290:ARG:CG	1.87	1.03
1:A:204:ALA:HB2	1:C:288:ASP:HA	1.21	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:42:GLY:HA3	1:E:169:TYR:CD1	1.90	1.03
1:C:74:GLY:CA	1:C:157:ASP:HB3	1.86	1.03
1:E:41:GLN:HE21	1:G:355:MET:HE1	0.90	1.03
1:E:44:MET:CG	1:G:150:GLY:N	2.21	1.03
1:E:50:LYS:HB2	1:G:148:THR:CG2	1.88	1.03
1:G:34:ILE:HG23	1:G:84:LYS:CG	1.88	1.03
1:H:41:GLN:NE2	1:J:355:MET:HE1	1.73	1.03
1:A:50:LYS:HB2	1:C:148:THR:CG2	1.88	1.03
1:A:204:ALA:H	1:C:288:ASP:N	1.24	1.03
1:B:245:GLY:HA2	1:D:324:THR:N	1.44	1.03
1:D:57:GLU:O	1:F:166:TYR:CE1	2.11	1.03
1:E:34:ILE:HG23	1:E:84:LYS:CG	1.87	1.03
1:E:42:GLY:HA2	1:G:169:TYR:HA	1.04	1.03
1:E:109:PRO:HD2	1:E:159:VAL:HG12	1.40	1.03
1:E:202:THR:HG21	1:G:290:ARG:CG	1.87	1.03
1:F:41:GLN:HE21	1:H:355:MET:HE1	0.90	1.03
1:H:57:GLU:O	1:J:166:TYR:CE1	2.11	1.03
1:H:72:GLU:HG3	1:H:183:ARG:CG	1.83	1.03
1:B:41:GLN:NE2	1:D:355:MET:HE1	1.73	1.03
1:C:109:PRO:HD2	1:C:159:VAL:HG12	1.40	1.03
1:C:202:THR:HG21	1:E:290:ARG:CG	1.87	1.03
1:E:41:GLN:NE2	1:G:355:MET:HE1	1.73	1.03
1:F:34:ILE:HG23	1:F:84:LYS:CG	1.87	1.03
1:H:202:THR:HG21	1:J:290:ARG:CG	1.87	1.03
1:I:72:GLU:HG3	1:I:183:ARG:CG	1.83	1.03
1:A:72:GLU:HG3	1:A:183:ARG:CG	1.83	1.03
1:D:204:ALA:N	1:F:288:ASP:N	2.05	1.03
1:F:57:GLU:O	1:H:166:TYR:CE1	2.11	1.03
1:G:110:LEU:CD1	1:G:177:ARG:C	1.90	1.03
1:H:204:ALA:N	1:J:288:ASP:N	2.05	1.03
1:I:34:ILE:HG23	1:I:84:LYS:CG	1.87	1.03
1:D:38:PRO:HB3	1:F:169:TYR:CD1	1.63	1.02
1:E:57:GLU:O	1:G:166:TYR:CE1	2.11	1.02
1:J:109:PRO:CA	1:J:159:VAL:CG1	2.28	1.02
1:A:57:GLU:O	1:C:166:TYR:CE1	2.11	1.02
1:C:57:GLU:O	1:E:166:TYR:CE1	2.11	1.02
1:F:41:GLN:NE2	1:H:355:MET:HE1	1.73	1.02
1:F:109:PRO:HD2	1:F:159:VAL:HG12	1.40	1.02
1:F:204:ALA:N	1:H:288:ASP:N	2.05	1.02
1:G:57:GLU:O	1:I:166:TYR:CE1	2.11	1.02
1:G:109:PRO:CA	1:G:159:VAL:CG1	2.28	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:50:LYS:HB2	1:J:148:THR:CG2	1.89	1.02
1:H:69:TYR:CA	1:H:84:LYS:N	2.23	1.02
1:I:69:TYR:CA	1:I:84:LYS:N	2.23	1.02
1:J:69:TYR:CA	1:J:84:LYS:N	2.23	1.02
1:B:72:GLU:HG2	1:B:183:ARG:NE	1.74	1.02
1:C:41:GLN:NE2	1:E:355:MET:HE1	1.73	1.02
1:F:77:THR:HG21	1:F:183:ARG:NH1	1.74	1.02
1:F:110:LEU:CD1	1:F:177:ARG:C	1.90	1.02
1:A:109:PRO:HD2	1:A:159:VAL:HG12	1.40	1.02
1:B:69:TYR:CA	1:B:84:LYS:N	2.23	1.02
1:C:34:ILE:HG23	1:C:84:LYS:CG	1.88	1.02
1:G:50:LYS:HB2	1:I:148:THR:CG2	1.89	1.02
1:G:69:TYR:CA	1:G:84:LYS:N	2.23	1.02
1:G:109:PRO:HD2	1:G:159:VAL:HG12	1.40	1.02
1:G:202:THR:HG21	1:I:290:ARG:CG	1.87	1.02
1:J:72:GLU:HG3	1:J:183:ARG:CG	1.83	1.02
1:J:109:PRO:HD2	1:J:159:VAL:HG12	1.40	1.02
1:B:44:MET:CG	1:D:150:GLY:N	2.21	1.02
1:D:41:GLN:NE2	1:F:355:MET:HE1	1.73	1.02
1:D:50:LYS:HB2	1:F:148:THR:CG2	1.88	1.02
1:F:50:LYS:HB2	1:H:148:THR:CG2	1.88	1.02
1:G:72:GLU:HG3	1:G:183:ARG:CG	1.83	1.02
1:H:38:PRO:HB3	1:J:169:TYR:CD1	1.63	1.02
1:A:41:GLN:NE2	1:C:355:MET:HE1	1.73	1.01
1:B:244:ASP:C	1:D:322:PRO:HB2	1.85	1.01
1:C:246:GLN:CA	1:E:322:PRO:HB3	1.91	1.01
1:D:77:THR:HG21	1:D:183:ARG:NH1	1.74	1.01
1:E:69:TYR:CA	1:E:84:LYS:N	2.23	1.01
1:E:72:GLU:HG2	1:E:183:ARG:NE	1.74	1.01
1:F:44:MET:CG	1:H:150:GLY:N	2.21	1.01
1:G:244:ASP:C	1:I:322:PRO:HB2	1.85	1.01
1:G:246:GLN:CA	1:I:322:PRO:HB3	1.91	1.01
1:B:42:GLY:HA2	1:D:169:TYR:HA	1.04	1.01
1:B:44:MET:HG3	1:D:150:GLY:H	1.20	1.01
1:C:42:GLY:HA2	1:E:169:TYR:HA	1.04	1.01
1:E:244:ASP:C	1:G:322:PRO:HB2	1.85	1.01
1:E:246:GLN:CA	1:G:322:PRO:HB3	1.91	1.01
1:H:44:MET:CG	1:J:150:GLY:N	2.21	1.01
1:A:69:TYR:CA	1:A:84:LYS:N	2.23	1.01
1:A:246:GLN:CA	1:C:322:PRO:HB3	1.91	1.01
1:C:69:TYR:CA	1:C:84:LYS:N	2.23	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:72:GLU:HG2	1:C:183:ARG:NE	1.74	1.01
1:D:44:MET:CG	1:F:150:GLY:N	2.21	1.01
1:D:69:TYR:CA	1:D:84:LYS:N	2.23	1.01
1:B:38:PRO:HB3	1:D:169:TYR:CD1	1.63	1.01
1:B:109:PRO:HD2	1:B:159:VAL:HG12	1.40	1.01
1:D:72:GLU:HG2	1:D:183:ARG:NE	1.74	1.01
1:D:244:ASP:C	1:F:322:PRO:HB2	1.85	1.01
1:F:69:TYR:CB	1:F:84:LYS:N	1.76	1.01
1:C:244:ASP:C	1:E:322:PRO:HB2	1.85	1.01
1:E:245:GLY:HA2	1:G:324:THR:N	1.44	1.01
1:B:50:LYS:HB2	1:D:148:THR:CG2	1.88	1.00
1:G:42:GLY:N	1:I:169:TYR:CE1	2.29	1.00
1:G:72:GLU:HG2	1:G:183:ARG:CZ	1.91	1.00
1:A:42:GLY:N	1:C:169:TYR:CE1	2.29	1.00
1:A:244:ASP:C	1:C:322:PRO:HB2	1.85	1.00
1:B:72:GLU:HG2	1:B:183:ARG:CZ	1.91	1.00
1:C:38:PRO:HB3	1:E:169:TYR:CD1	1.63	1.00
1:C:44:MET:HG3	1:E:150:GLY:H	1.20	1.00
1:C:72:GLU:HG2	1:C:183:ARG:CZ	1.91	1.00
1:D:42:GLY:HA2	1:F:169:TYR:HA	1.04	1.00
1:D:142:LEU:HD13	1:D:152:VAL:HG23	1.02	1.00
1:F:244:ASP:C	1:H:322:PRO:HB2	1.85	1.00
1:H:109:PRO:CA	1:H:159:VAL:CG1	2.28	1.00
1:H:244:ASP:C	1:J:322:PRO:HB2	1.85	1.00
1:B:142:LEU:HD13	1:B:152:VAL:HG23	1.02	1.00
1:B:204:ALA:N	1:D:288:ASP:N	2.05	1.00
1:C:42:GLY:N	1:E:169:TYR:CE1	2.29	1.00
1:H:246:GLN:CA	1:J:322:PRO:HB3	1.90	1.00
1:A:42:GLY:HA2	1:C:169:TYR:HA	1.04	1.00
1:F:142:LEU:HD13	1:F:152:VAL:HG23	1.02	1.00
1:H:42:GLY:N	1:J:169:TYR:CE1	2.29	1.00
1:H:72:GLU:HG2	1:H:183:ARG:CZ	1.91	1.00
1:I:72:GLU:HG2	1:I:183:ARG:NE	1.74	1.00
1:A:65:LEU:HD11	1:C:166:TYR:CE2	1.97	1.00
1:A:72:GLU:HG2	1:A:183:ARG:CZ	1.91	1.00
1:F:72:GLU:HG2	1:F:183:ARG:CZ	1.91	1.00
1:B:246:GLN:CA	1:D:322:PRO:HB3	1.91	1.00
1:C:65:LEU:HD11	1:E:166:TYR:CE2	1.97	1.00
1:D:42:GLY:N	1:F:169:TYR:CE1	2.29	1.00
1:G:72:GLU:HG2	1:G:183:ARG:NE	1.74	1.00
1:H:42:GLY:HA2	1:J:169:TYR:HA	1.04	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:65:LEU:HD11	1:D:166:TYR:CE2	1.97	1.00
1:D:246:GLN:CA	1:F:322:PRO:HB3	1.91	1.00
1:F:246:GLN:CA	1:H:322:PRO:HB3	1.91	1.00
1:A:72:GLU:HG2	1:A:183:ARG:NE	1.75	0.99
1:E:72:GLU:HG2	1:E:183:ARG:CZ	1.91	0.99
1:F:42:GLY:HA2	1:H:169:TYR:HA	1.04	0.99
1:I:72:GLU:HG2	1:I:183:ARG:CZ	1.91	0.99
1:I:142:LEU:HD13	1:I:152:VAL:HG23	1.02	0.99
1:F:69:TYR:CA	1:F:84:LYS:N	2.23	0.99
1:G:142:LEU:HD13	1:G:152:VAL:HG23	1.02	0.99
1:G:245:GLY:HA2	1:I:324:THR:N	1.44	0.99
1:J:142:LEU:HD13	1:J:152:VAL:HG23	1.02	0.99
1:B:69:TYR:C	1:B:84:LYS:N	2.20	0.99
1:D:65:LEU:HD11	1:F:166:TYR:CE2	1.97	0.99
1:E:142:LEU:HD13	1:E:152:VAL:HG23	1.02	0.99
1:J:72:GLU:HG2	1:J:183:ARG:CZ	1.91	0.99
1:A:142:LEU:HD13	1:A:152:VAL:HG23	1.02	0.99
1:B:77:THR:HG21	1:B:183:ARG:NH1	1.74	0.99
1:H:142:LEU:HD13	1:H:152:VAL:HG23	1.02	0.99
1:I:109:PRO:HD2	1:I:159:VAL:HG12	1.40	0.99
1:A:77:THR:HG21	1:A:183:ARG:NH1	1.74	0.99
1:B:42:GLY:N	1:D:169:TYR:CE1	2.29	0.99
1:D:109:PRO:HD2	1:D:159:VAL:HG12	1.40	0.99
1:E:42:GLY:N	1:G:169:TYR:CE1	2.29	0.99
1:E:65:LEU:HD11	1:G:166:TYR:CE2	1.97	0.99
1:C:142:LEU:HD13	1:C:152:VAL:HG23	1.02	0.99
1:F:72:GLU:HG2	1:F:183:ARG:NE	1.74	0.99
1:I:77:THR:HG21	1:I:183:ARG:NH1	1.74	0.99
1:A:69:TYR:CB	1:A:84:LYS:N	1.76	0.99
1:A:110:LEU:CD1	1:A:177:ARG:C	1.90	0.99
1:C:245:GLY:HA2	1:E:324:THR:N	1.44	0.99
1:D:72:GLU:HG2	1:D:183:ARG:CZ	1.91	0.99
1:E:142:LEU:HD13	1:E:152:VAL:HG22	1.44	0.99
1:F:42:GLY:N	1:H:169:TYR:CE1	2.29	0.99
1:C:204:ALA:N	1:E:288:ASP:N	2.05	0.99
1:D:69:TYR:C	1:D:84:LYS:N	2.20	0.99
1:D:109:PRO:CA	1:D:159:VAL:CG1	2.28	0.99
1:I:69:TYR:CB	1:I:84:LYS:N	1.76	0.99
1:I:142:LEU:HD13	1:I:152:VAL:HG22	1.44	0.99
1:C:77:THR:HG21	1:C:183:ARG:NH1	1.74	0.99
1:E:109:PRO:CA	1:E:159:VAL:CG1	2.28	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:77:THR:HG21	1:J:183:ARG:NH1	1.74	0.98
1:F:65:LEU:HD11	1:H:166:TYR:CE2	1.97	0.98
1:I:69:TYR:C	1:I:84:LYS:N	2.20	0.98
1:E:77:THR:HG21	1:E:183:ARG:NH1	1.74	0.98
1:A:72:GLU:CG	1:A:183:ARG:NH1	2.27	0.98
1:D:245:GLY:HA2	1:F:324:THR:CB	1.93	0.98
1:F:245:GLY:HA2	1:H:324:THR:CB	1.93	0.98
1:G:65:LEU:HD11	1:I:166:TYR:CE2	1.97	0.98
1:G:69:TYR:C	1:G:84:LYS:N	2.20	0.98
1:G:72:GLU:CG	1:G:183:ARG:NH1	2.27	0.98
1:F:109:PRO:CA	1:F:159:VAL:CG1	2.28	0.98
1:F:69:TYR:C	1:F:84:LYS:N	2.20	0.98
1:I:108:ALA:C	1:I:159:VAL:CG1	2.29	0.98
1:A:40:HIS:O	1:C:169:TYR:HD1	1.40	0.98
1:E:74:GLY:N	1:E:158:GLY:N	2.04	0.98
1:E:44:MET:HG3	1:G:150:GLY:H	1.20	0.98
1:H:245:GLY:HA2	1:J:324:THR:CB	1.93	0.98
1:B:245:GLY:HA2	1:D:324:THR:CB	1.93	0.98
1:C:72:GLU:CG	1:C:183:ARG:NH1	2.27	0.98
1:G:142:LEU:HD13	1:G:152:VAL:HG22	1.44	0.98
1:H:65:LEU:HD11	1:J:166:TYR:CE2	1.97	0.98
1:J:72:GLU:CG	1:J:183:ARG:NH1	2.27	0.98
1:J:43:VAL:HG21	1:J:49:GLN:HA	1.47	0.97
1:A:142:LEU:HD13	1:A:152:VAL:HG22	1.44	0.97
1:C:142:LEU:HD13	1:C:152:VAL:HG22	1.44	0.97
1:E:72:GLU:CG	1:E:183:ARG:NH1	2.27	0.97
1:F:43:VAL:HG21	1:F:49:GLN:HA	1.46	0.97
1:B:72:GLU:CG	1:B:183:ARG:NH1	2.27	0.97
1:E:69:TYR:C	1:E:84:LYS:N	2.20	0.97
1:H:69:TYR:C	1:H:84:LYS:N	2.20	0.97
1:C:246:GLN:HA	1:E:323:SER:H	1.29	0.97
1:D:44:MET:HG3	1:F:150:GLY:H	1.20	0.97
1:D:77:THR:HG23	1:D:183:ARG:NH1	1.80	0.97
1:E:50:LYS:O	1:G:167:GLU:O	1.83	0.97
1:F:246:GLN:HA	1:H:323:SER:H	1.29	0.97
1:G:74:GLY:N	1:G:158:GLY:N	2.04	0.97
1:H:72:GLU:HG2	1:H:183:ARG:NE	1.74	0.97
1:A:202:THR:HG21	1:C:290:ARG:HG3	0.97	0.97
1:A:246:GLN:HA	1:C:323:SER:H	1.29	0.97
1:C:77:THR:HG23	1:C:183:ARG:HH12	1.29	0.97
1:D:45:VAL:HA	1:F:142:LEU:O	1.63	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:69:TYR:CB	1:D:84:LYS:N	1.76	0.97
1:E:245:GLY:HA2	1:G:324:THR:CB	1.93	0.97
1:F:45:VAL:HA	1:H:142:LEU:O	1.63	0.97
1:G:245:GLY:HA2	1:I:324:THR:CB	1.93	0.97
1:E:202:THR:HG21	1:G:290:ARG:HG3	0.97	0.97
1:F:72:GLU:CG	1:F:183:ARG:NH1	2.27	0.97
1:A:43:VAL:HG21	1:A:49:GLN:HA	1.47	0.97
1:C:69:TYR:C	1:C:84:LYS:N	2.20	0.97
1:C:245:GLY:HA2	1:E:324:THR:CB	1.93	0.97
1:G:108:ALA:C	1:G:159:VAL:CG1	2.29	0.97
1:G:202:THR:HG23	1:I:286:ASP:O	1.40	0.97
1:I:72:GLU:CG	1:I:183:ARG:NH1	2.27	0.97
1:J:77:THR:HG23	1:J:183:ARG:NH1	1.80	0.97
1:A:69:TYR:C	1:A:84:LYS:N	2.20	0.97
1:G:77:THR:HG21	1:G:183:ARG:NH1	1.74	0.97
1:J:72:GLU:HB3	1:J:183:ARG:CZ	1.94	0.97
1:J:69:TYR:C	1:J:84:LYS:N	2.20	0.97
1:F:142:LEU:HD13	1:F:152:VAL:HG22	1.44	0.97
1:H:77:THR:HG21	1:H:183:ARG:NH1	1.74	0.97
1:B:110:LEU:CD1	1:B:177:ARG:C	1.90	0.96
1:D:72:GLU:HB3	1:D:183:ARG:CZ	1.94	0.96
1:E:77:THR:HG23	1:E:183:ARG:HH12	1.29	0.96
1:G:202:THR:HG21	1:I:290:ARG:HG3	0.97	0.96
1:J:72:GLU:HG3	1:J:183:ARG:HG2	1.46	0.96
1:C:43:VAL:HG21	1:C:49:GLN:HA	1.47	0.96
1:C:202:THR:HG21	1:E:290:ARG:HG3	0.97	0.96
1:D:50:LYS:O	1:F:167:GLU:O	1.83	0.96
1:E:246:GLN:HA	1:G:323:SER:H	1.29	0.96
1:G:40:HIS:O	1:I:169:TYR:HD1	1.40	0.96
1:H:43:VAL:HG21	1:H:49:GLN:HA	1.47	0.96
1:J:72:GLU:HG2	1:J:183:ARG:NE	1.75	0.96
1:A:245:GLY:HA2	1:C:324:THR:N	1.44	0.96
1:D:246:GLN:HA	1:F:323:SER:H	1.29	0.96
1:E:72:GLU:HB3	1:E:183:ARG:CZ	1.94	0.96
1:H:72:GLU:CG	1:H:183:ARG:NH1	2.27	0.96
1:H:202:THR:HG21	1:J:290:ARG:HG3	0.97	0.96
1:I:77:THR:HG23	1:I:183:ARG:HH12	1.29	0.96
1:A:44:MET:HG3	1:C:150:GLY:H	1.20	0.96
1:A:245:GLY:HA2	1:C:324:THR:CB	1.93	0.96
1:B:43:VAL:HG21	1:B:49:GLN:HA	1.47	0.96
1:D:43:VAL:HG21	1:D:49:GLN:HA	1.46	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:72:GLU:HG3	1:D:183:ARG:HG2	1.47	0.96
1:E:40:HIS:O	1:G:169:TYR:HD1	1.40	0.96
1:F:202:THR:HG21	1:H:290:ARG:HG3	0.97	0.96
1:H:77:THR:HG23	1:H:183:ARG:NH1	1.80	0.96
1:G:72:GLU:HB3	1:G:183:ARG:CZ	1.94	0.96
1:G:246:GLN:HA	1:I:323:SER:H	1.29	0.96
1:A:245:GLY:CA	1:C:322:PRO:O	2.14	0.96
1:E:43:VAL:HG21	1:E:49:GLN:HA	1.47	0.96
1:H:245:GLY:CA	1:J:322:PRO:O	2.14	0.96
1:A:109:PRO:HD2	1:A:159:VAL:HG13	1.33	0.96
1:B:202:THR:HG21	1:D:290:ARG:HG3	0.97	0.96
1:E:72:GLU:CG	1:E:183:ARG:CG	2.40	0.96
1:C:72:GLU:HB3	1:C:183:ARG:CZ	1.94	0.96
1:F:72:GLU:CG	1:F:183:ARG:CG	2.40	0.96
1:B:142:LEU:HD13	1:B:152:VAL:HG22	1.44	0.96
1:C:245:GLY:CA	1:E:322:PRO:O	2.14	0.96
1:D:72:GLU:CG	1:D:183:ARG:NH1	2.27	0.96
1:D:202:THR:HG21	1:F:290:ARG:HG3	0.97	0.96
1:A:45:VAL:HA	1:C:142:LEU:O	1.63	0.96
1:A:50:LYS:O	1:C:167:GLU:O	1.83	0.96
1:A:77:THR:HG23	1:A:183:ARG:HH12	1.29	0.96
1:B:72:GLU:HG3	1:B:183:ARG:HG2	1.46	0.96
1:B:72:GLU:CG	1:B:183:ARG:CG	2.40	0.96
1:C:109:PRO:HD2	1:C:159:VAL:HG13	1.33	0.96
1:D:109:PRO:CG	1:D:159:VAL:HG13	1.96	0.96
1:E:44:MET:CG	1:G:165:ILE:HB	1.80	0.96
1:F:245:GLY:CA	1:H:322:PRO:O	2.14	0.96
1:I:72:GLU:HB3	1:I:183:ARG:CZ	1.94	0.96
1:E:108:ALA:HB1	1:E:159:VAL:HG12	1.48	0.95
1:H:246:GLN:HA	1:J:323:SER:H	1.29	0.95
1:B:50:LYS:O	1:D:167:GLU:O	1.82	0.95
1:B:72:GLU:HB3	1:B:183:ARG:CZ	1.94	0.95
1:C:50:LYS:O	1:E:167:GLU:O	1.83	0.95
1:D:142:LEU:HD13	1:D:152:VAL:HG22	1.44	0.95
1:E:202:THR:HG23	1:G:286:ASP:O	1.40	0.95
1:G:50:LYS:O	1:I:167:GLU:O	1.82	0.95
1:H:142:LEU:HD13	1:H:152:VAL:HG22	1.44	0.95
1:A:108:ALA:HB1	1:A:159:VAL:HG12	1.48	0.95
1:B:77:THR:HG23	1:B:183:ARG:NH1	1.80	0.95
1:E:108:ALA:C	1:E:159:VAL:CG1	2.29	0.95
1:I:69:TYR:HB3	1:I:83:GLU:C	1.91	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:50:LYS:O	1:H:167:GLU:O	1.83	0.95
1:H:44:MET:CG	1:J:165:ILE:HB	1.80	0.95
1:C:109:PRO:CA	1:C:159:VAL:CG1	2.28	0.95
1:H:45:VAL:HA	1:J:142:LEU:O	1.63	0.95
1:H:72:GLU:HG3	1:H:183:ARG:HG2	1.46	0.95
1:B:245:GLY:CA	1:D:322:PRO:O	2.14	0.95
1:C:205:GLU:N	1:E:287:VAL:HG12	1.82	0.95
1:D:69:TYR:HB3	1:D:83:GLU:C	1.91	0.95
1:E:69:TYR:HB3	1:E:83:GLU:C	1.91	0.95
1:H:72:GLU:HB3	1:H:183:ARG:CZ	1.94	0.95
1:I:72:GLU:HG3	1:I:183:ARG:HG2	1.46	0.95
1:I:109:PRO:CG	1:I:159:VAL:HG13	1.96	0.95
1:B:108:ALA:C	1:B:159:VAL:CG1	2.29	0.95
1:B:109:PRO:CA	1:B:159:VAL:CG1	2.28	0.95
1:H:109:PRO:CG	1:H:159:VAL:HG13	1.96	0.95
1:I:74:GLY:N	1:I:158:GLY:N	2.04	0.95
1:E:205:GLU:N	1:G:287:VAL:HG12	1.82	0.95
1:E:246:GLN:CB	1:G:322:PRO:CB	2.21	0.95
1:F:72:GLU:HB3	1:F:183:ARG:CZ	1.94	0.95
1:G:69:TYR:HB3	1:G:83:GLU:C	1.91	0.95
1:G:245:GLY:CA	1:I:322:PRO:O	2.14	0.95
1:H:205:GLU:N	1:J:287:VAL:HG12	1.82	0.95
1:I:43:VAL:HG21	1:I:49:GLN:HA	1.47	0.95
1:A:205:GLU:N	1:C:287:VAL:HG12	1.82	0.95
1:C:108:ALA:HB1	1:C:159:VAL:HG12	1.48	0.95
1:E:77:THR:HG23	1:E:183:ARG:NH1	1.80	0.95
1:F:205:GLU:N	1:H:287:VAL:HG12	1.82	0.95
1:G:43:VAL:HG21	1:G:49:GLN:HA	1.47	0.95
1:I:108:ALA:HB1	1:I:159:VAL:HG12	1.48	0.95
1:J:142:LEU:HD13	1:J:152:VAL:HG22	1.44	0.95
1:B:69:TYR:CB	1:B:84:LYS:N	1.76	0.95
1:C:72:GLU:CG	1:C:183:ARG:CG	2.40	0.95
1:E:69:TYR:CB	1:E:84:LYS:N	1.76	0.95
1:F:77:THR:HG23	1:F:183:ARG:HH12	1.29	0.95
1:A:38:PRO:HB3	1:C:169:TYR:CD1	1.63	0.94
1:B:205:GLU:N	1:D:287:VAL:HG12	1.82	0.94
1:E:109:PRO:HD2	1:E:159:VAL:HG13	1.33	0.94
1:E:109:PRO:CG	1:E:159:VAL:HG13	1.96	0.94
1:G:108:ALA:HB1	1:G:159:VAL:HG12	1.48	0.94
1:F:72:GLU:HG3	1:F:183:ARG:HG2	1.46	0.94
1:H:50:LYS:O	1:J:167:GLU:O	1.83	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:69:TYR:HB3	1:A:83:GLU:C	1.91	0.94
1:B:109:PRO:CG	1:B:159:VAL:HG13	1.96	0.94
1:G:72:GLU:HG3	1:G:183:ARG:HG2	1.46	0.94
1:G:109:PRO:CG	1:G:159:VAL:HG13	1.96	0.94
1:J:74:GLY:N	1:J:157:ASP:CB	2.31	0.94
1:C:72:GLU:HG3	1:C:183:ARG:HG2	1.46	0.94
1:E:45:VAL:HA	1:G:142:LEU:O	1.63	0.94
1:E:60:SER:CB	1:G:289:ILE:CG2	2.46	0.94
1:F:40:HIS:O	1:H:169:TYR:HD1	1.39	0.94
1:F:109:PRO:CG	1:F:159:VAL:HG13	1.96	0.94
1:G:74:GLY:N	1:G:157:ASP:CB	2.31	0.94
1:H:74:GLY:HA3	1:H:158:GLY:CA	1.96	0.94
1:H:77:THR:HG23	1:H:183:ARG:HH12	1.29	0.94
1:I:74:GLY:N	1:I:157:ASP:CB	2.31	0.94
1:J:74:GLY:HA3	1:J:158:GLY:CA	1.96	0.94
1:A:72:GLU:HB3	1:A:183:ARG:CZ	1.94	0.94
1:B:40:HIS:O	1:D:169:TYR:HD1	1.40	0.94
1:D:77:THR:HG23	1:D:183:ARG:HH12	1.29	0.94
1:D:245:GLY:CA	1:F:322:PRO:O	2.14	0.94
1:E:74:GLY:N	1:E:157:ASP:CB	2.31	0.94
1:E:245:GLY:CA	1:G:322:PRO:O	2.14	0.94
1:F:74:GLY:N	1:F:157:ASP:CB	2.31	0.94
1:G:77:THR:HG23	1:G:183:ARG:HH12	1.29	0.94
1:H:74:GLY:N	1:H:157:ASP:CB	2.31	0.94
1:J:109:PRO:CG	1:J:159:VAL:HG13	1.96	0.94
1:A:74:GLY:N	1:A:157:ASP:CB	2.31	0.94
1:B:109:PRO:CB	1:B:159:VAL:HG13	1.98	0.94
1:B:246:GLN:HA	1:D:323:SER:H	1.29	0.94
1:C:77:THR:HG23	1:C:183:ARG:NH1	1.80	0.94
1:I:109:PRO:CB	1:I:159:VAL:HG13	1.98	0.94
1:A:60:SER:CB	1:C:289:ILE:CG2	2.46	0.94
1:D:109:PRO:CB	1:D:159:VAL:HG13	1.98	0.94
1:E:109:PRO:CB	1:E:159:VAL:HG13	1.98	0.94
1:G:109:PRO:CB	1:G:159:VAL:HG13	1.98	0.94
1:H:108:ALA:C	1:H:159:VAL:CG1	2.29	0.94
1:A:109:PRO:CG	1:A:159:VAL:HG13	1.96	0.94
1:A:109:PRO:CB	1:A:159:VAL:HG13	1.98	0.94
1:B:60:SER:HB2	1:D:289:ILE:HG22	1.50	0.94
1:B:69:TYR:HB3	1:B:83:GLU:C	1.91	0.94
1:B:74:GLY:HA3	1:B:158:GLY:CA	1.96	0.94
1:C:45:VAL:HA	1:E:142:LEU:O	1.63	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:69:TYR:HB3	1:C:83:GLU:C	1.91	0.94
1:C:109:PRO:CB	1:C:159:VAL:HG13	1.98	0.94
1:E:65:LEU:HD12	1:G:166:TYR:CE2	2.03	0.94
1:F:69:TYR:HB3	1:F:83:GLU:C	1.91	0.94
1:F:74:GLY:HA3	1:F:158:GLY:CA	1.96	0.94
1:F:109:PRO:CB	1:F:159:VAL:HG13	1.98	0.94
1:G:60:SER:HB2	1:I:289:ILE:HG22	1.50	0.94
1:H:109:PRO:CB	1:H:159:VAL:HG13	1.98	0.94
1:I:77:THR:HG23	1:I:183:ARG:NH1	1.80	0.94
1:J:69:TYR:HB3	1:J:83:GLU:C	1.91	0.94
1:J:109:PRO:HD2	1:J:159:VAL:HG13	1.33	0.94
1:J:109:PRO:CB	1:J:159:VAL:HG13	1.98	0.94
1:C:74:GLY:N	1:C:157:ASP:CB	2.31	0.94
1:C:202:THR:HG23	1:E:286:ASP:O	1.40	0.94
1:G:205:GLU:N	1:I:287:VAL:HG12	1.82	0.94
1:J:109:PRO:CD	1:J:159:VAL:HG12	1.96	0.94
1:A:74:GLY:HA3	1:A:158:GLY:CA	1.96	0.94
1:B:45:VAL:HA	1:D:142:LEU:O	1.63	0.94
1:B:60:SER:O	1:D:289:ILE:HD13	1.68	0.94
1:C:60:SER:HB2	1:E:289:ILE:HG22	1.50	0.94
1:D:60:SER:O	1:F:289:ILE:HD13	1.68	0.94
1:D:205:GLU:N	1:F:287:VAL:HG12	1.82	0.94
1:G:69:TYR:CB	1:G:84:LYS:N	1.76	0.94
1:H:40:HIS:O	1:J:169:TYR:HD1	1.40	0.94
1:H:69:TYR:HB3	1:H:83:GLU:C	1.91	0.94
1:D:74:GLY:HA3	1:D:158:GLY:CA	1.96	0.93
1:D:110:LEU:HB2	1:D:159:VAL:HG23	1.51	0.93
1:E:60:SER:HB2	1:G:289:ILE:HG22	1.50	0.93
1:F:44:MET:HG3	1:H:150:GLY:H	1.20	0.93
1:I:74:GLY:HA3	1:I:158:GLY:CA	1.96	0.93
1:A:60:SER:HB2	1:C:289:ILE:HG22	1.50	0.93
1:B:74:GLY:N	1:B:157:ASP:CB	2.31	0.93
1:C:60:SER:CB	1:E:289:ILE:CG2	2.46	0.93
1:C:109:PRO:CG	1:C:159:VAL:HG13	1.96	0.93
1:E:72:GLU:HG3	1:E:183:ARG:HG2	1.46	0.93
1:G:60:SER:CB	1:I:289:ILE:CG2	2.46	0.93
1:J:77:THR:HG23	1:J:183:ARG:HH12	1.29	0.93
1:J:108:ALA:HB1	1:J:159:VAL:HG12	1.48	0.93
1:B:108:ALA:HB1	1:B:159:VAL:HG12	1.48	0.93
1:C:108:ALA:C	1:C:159:VAL:CG1	2.29	0.93
1:F:108:ALA:HB1	1:F:159:VAL:HG12	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:72:GLU:CG	1:I:183:ARG:CG	2.40	0.93
1:C:74:GLY:HA3	1:C:158:GLY:CA	1.96	0.93
1:D:74:GLY:N	1:D:157:ASP:CB	2.31	0.93
1:H:60:SER:HB2	1:J:289:ILE:HG22	1.50	0.93
1:A:65:LEU:HD12	1:C:166:TYR:CE2	2.03	0.93
1:A:77:THR:HG23	1:A:183:ARG:NH1	1.80	0.93
1:G:45:VAL:HA	1:I:142:LEU:O	1.63	0.93
1:G:74:GLY:HA3	1:G:158:GLY:CA	1.97	0.93
1:D:108:ALA:C	1:D:159:VAL:CG1	2.29	0.93
1:F:60:SER:CB	1:H:289:ILE:CG2	2.46	0.93
1:F:77:THR:HG23	1:F:183:ARG:NH1	1.80	0.93
1:G:109:PRO:HD2	1:G:159:VAL:HG13	1.33	0.93
1:B:60:SER:CB	1:D:289:ILE:CG2	2.46	0.93
1:F:60:SER:O	1:H:289:ILE:HD13	1.68	0.93
1:H:60:SER:CB	1:J:289:ILE:CG2	2.46	0.93
1:A:109:PRO:CA	1:A:159:VAL:CG1	2.28	0.92
1:D:60:SER:HB2	1:F:289:ILE:HG22	1.50	0.92
1:E:74:GLY:HA3	1:E:158:GLY:CA	1.96	0.92
1:F:110:LEU:HB2	1:F:159:VAL:HG23	1.50	0.92
1:B:42:GLY:CA	1:D:169:TYR:CG	2.52	0.92
1:H:110:LEU:CD1	1:H:177:ARG:C	1.90	0.92
1:E:60:SER:O	1:G:289:ILE:HD13	1.68	0.92
1:H:44:MET:HE3	1:J:149:THR:O	1.21	0.92
1:C:40:HIS:O	1:E:169:TYR:HD1	1.40	0.92
1:H:108:ALA:HB1	1:H:159:VAL:HG12	1.48	0.92
1:C:65:LEU:HD12	1:E:166:TYR:CE2	2.03	0.92
1:B:110:LEU:HB2	1:B:159:VAL:HG23	1.51	0.92
1:H:109:PRO:HD2	1:H:159:VAL:HG13	1.33	0.92
1:D:60:SER:CB	1:F:289:ILE:CG2	2.46	0.92
1:A:60:SER:O	1:C:289:ILE:HD13	1.68	0.92
1:D:108:ALA:HB1	1:D:159:VAL:HG12	1.48	0.92
1:A:110:LEU:HB2	1:A:159:VAL:HG21	1.45	0.92
1:A:202:THR:HG23	1:C:286:ASP:O	1.40	0.92
1:B:65:LEU:HD12	1:D:166:TYR:CE2	2.03	0.92
1:D:65:LEU:HD12	1:F:166:TYR:CE2	2.03	0.92
1:G:60:SER:O	1:I:289:ILE:HD13	1.68	0.92
1:G:72:GLU:CG	1:G:183:ARG:CG	2.40	0.92
1:G:77:THR:HG23	1:G:183:ARG:NH1	1.80	0.92
1:C:50:LYS:HB2	1:E:148:THR:HG22	1.51	0.91
1:E:44:MET:HE3	1:G:149:THR:O	1.21	0.91
1:F:246:GLN:N	1:H:322:PRO:CA	2.33	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:44:MET:HG3	1:I:150:GLY:H	1.20	0.91
1:I:109:PRO:CD	1:I:159:VAL:HG12	1.96	0.91
1:J:110:LEU:HB2	1:J:159:VAL:HG23	1.51	0.91
1:A:72:GLU:CG	1:A:183:ARG:CG	2.40	0.91
1:C:109:PRO:C	1:C:161:HIS:CE1	2.37	0.91
1:F:42:GLY:CA	1:H:169:TYR:CG	2.52	0.91
1:F:246:GLN:CB	1:H:322:PRO:CB	2.21	0.91
1:H:44:MET:HG3	1:J:150:GLY:H	1.20	0.91
1:J:110:LEU:HB2	1:J:159:VAL:HG21	1.45	0.91
1:A:72:GLU:HG3	1:A:183:ARG:HG2	1.46	0.91
1:B:246:GLN:N	1:D:322:PRO:CA	2.33	0.91
1:C:61:LYS:HG2	1:E:289:ILE:CD1	2.00	0.91
1:D:246:GLN:N	1:F:322:PRO:CA	2.33	0.91
1:H:60:SER:O	1:J:289:ILE:HD13	1.68	0.91
1:A:61:LYS:HG2	1:C:289:ILE:CD1	2.00	0.91
1:A:142:LEU:CD1	1:A:152:VAL:HG23	1.91	0.91
1:B:61:LYS:HG2	1:D:289:ILE:CD1	2.00	0.91
1:B:64:ILE:CG2	1:D:171:LEU:HD22	1.94	0.91
1:E:50:LYS:HB2	1:G:148:THR:HG22	1.51	0.91
1:E:61:LYS:HG2	1:G:289:ILE:CD1	2.00	0.91
1:G:50:LYS:HB2	1:I:148:THR:HG22	1.51	0.91
1:G:50:LYS:CB	1:I:148:THR:HG21	2.01	0.91
1:D:61:LYS:HG2	1:F:289:ILE:CD1	2.00	0.91
1:E:245:GLY:HA2	1:G:325:MET:N	1.77	0.91
1:F:108:ALA:C	1:F:159:VAL:CG1	2.29	0.91
1:A:50:LYS:HB2	1:C:148:THR:HG22	1.51	0.91
1:A:50:LYS:CB	1:C:148:THR:HG21	2.01	0.91
1:A:109:PRO:C	1:A:161:HIS:CE1	2.37	0.91
1:D:40:HIS:O	1:F:169:TYR:HD1	1.40	0.91
1:G:61:LYS:HG2	1:I:289:ILE:CD1	2.00	0.91
1:J:142:LEU:CD1	1:J:152:VAL:HG23	1.91	0.91
1:F:44:MET:HE3	1:H:149:THR:O	1.21	0.91
1:G:65:LEU:HD12	1:I:166:TYR:CE2	2.03	0.91
1:I:109:PRO:HD2	1:I:159:VAL:HG13	1.33	0.91
1:J:110:LEU:CD1	1:J:177:ARG:C	1.90	0.91
1:C:142:LEU:CD1	1:C:152:VAL:HG23	1.91	0.91
1:D:245:GLY:HA2	1:F:325:MET:N	1.77	0.91
1:F:61:LYS:HG2	1:H:289:ILE:CD1	2.00	0.91
1:F:74:GLY:CA	1:F:157:ASP:C	2.35	0.91
1:G:109:PRO:CD	1:G:159:VAL:HG12	1.96	0.91
1:E:246:GLN:N	1:G:322:PRO:CA	2.33	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:60:SER:HB2	1:H:289:ILE:HG22	1.50	0.91
1:A:108:ALA:C	1:A:159:VAL:CG1	2.29	0.90
1:A:109:PRO:CD	1:A:159:VAL:HG12	1.96	0.90
1:E:50:LYS:CB	1:G:148:THR:HG21	2.01	0.90
1:H:50:LYS:HB2	1:J:148:THR:HG22	1.51	0.90
1:H:142:LEU:CD1	1:H:152:VAL:HG23	1.91	0.90
1:E:110:LEU:HB2	1:E:159:VAL:HG23	1.50	0.90
1:G:110:LEU:HB2	1:G:159:VAL:HG23	1.50	0.90
1:H:72:GLU:CG	1:H:183:ARG:CG	2.40	0.90
1:H:61:LYS:HG2	1:J:289:ILE:CD1	2.00	0.90
1:B:50:LYS:CB	1:D:148:THR:HG21	2.01	0.90
1:C:110:LEU:HB2	1:C:159:VAL:HG23	1.51	0.90
1:C:246:GLN:N	1:E:322:PRO:CA	2.33	0.90
1:D:50:LYS:CB	1:F:148:THR:HG21	2.01	0.90
1:D:110:LEU:HD11	1:D:177:ARG:O	1.72	0.90
1:E:42:GLY:CA	1:G:169:TYR:CG	2.52	0.90
1:F:109:PRO:HD2	1:F:159:VAL:HG13	1.33	0.90
1:G:110:LEU:HD11	1:G:177:ARG:O	1.72	0.90
1:G:246:GLN:N	1:I:322:PRO:CA	2.33	0.90
1:C:60:SER:O	1:E:289:ILE:HD13	1.68	0.90
1:E:50:LYS:HG3	1:G:148:THR:CG2	2.01	0.90
1:E:109:PRO:CD	1:E:159:VAL:HG12	1.96	0.90
1:H:50:LYS:HG3	1:J:148:THR:CG2	2.01	0.90
1:H:110:LEU:HD11	1:H:177:ARG:O	1.72	0.90
1:C:109:PRO:CD	1:C:159:VAL:HG12	1.96	0.90
1:D:246:GLN:CB	1:F:322:PRO:CB	2.21	0.90
1:F:50:LYS:HB2	1:H:148:THR:HG22	1.51	0.90
1:F:50:LYS:CB	1:H:148:THR:HG21	2.01	0.90
1:F:65:LEU:HD12	1:H:166:TYR:CE2	2.03	0.90
1:J:72:GLU:CG	1:J:183:ARG:CG	2.40	0.90
1:C:110:LEU:HD11	1:C:177:ARG:O	1.72	0.90
1:J:108:ALA:C	1:J:159:VAL:CG1	2.29	0.90
1:A:246:GLN:N	1:C:322:PRO:CA	2.33	0.90
1:G:245:GLY:O	1:I:323:SER:CA	2.20	0.90
1:H:246:GLN:N	1:J:322:PRO:CA	2.33	0.90
1:A:204:ALA:CA	1:C:288:ASP:HA	2.00	0.90
1:C:50:LYS:CB	1:E:148:THR:HG21	2.01	0.90
1:I:110:LEU:HB2	1:I:159:VAL:HG23	1.50	0.90
1:B:245:GLY:HA3	1:D:324:THR:N	1.87	0.90
1:D:42:GLY:CA	1:F:169:TYR:CG	2.52	0.90
1:H:110:LEU:HB2	1:H:159:VAL:HG23	1.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:110:LEU:HD11	1:B:177:ARG:O	1.72	0.89
1:D:72:GLU:CG	1:D:183:ARG:CG	2.40	0.89
1:D:72:GLU:CG	1:D:183:ARG:HH11	1.85	0.89
1:H:50:LYS:CB	1:J:148:THR:HG21	2.01	0.89
1:H:245:GLY:HA3	1:J:324:THR:N	1.87	0.89
1:J:72:GLU:CG	1:J:183:ARG:HH11	1.85	0.89
1:A:110:LEU:HD11	1:A:177:ARG:O	1.72	0.89
1:A:110:LEU:HB2	1:A:159:VAL:HG23	1.51	0.89
1:G:42:GLY:CA	1:I:169:TYR:CG	2.52	0.89
1:B:50:LYS:HB2	1:D:148:THR:HG22	1.51	0.89
1:H:65:LEU:HD12	1:J:166:TYR:CE2	2.03	0.89
1:A:245:GLY:O	1:C:323:SER:CA	2.20	0.89
1:E:142:LEU:CD1	1:E:152:VAL:HG23	1.91	0.89
1:C:110:LEU:HD12	1:C:178:LEU:H	1.37	0.89
1:D:50:LYS:HB2	1:F:148:THR:HG22	1.51	0.89
1:E:110:LEU:HD11	1:E:177:ARG:O	1.72	0.89
1:E:245:GLY:O	1:G:323:SER:CA	2.20	0.89
1:H:74:GLY:N	1:H:158:GLY:N	2.04	0.89
1:A:74:GLY:CA	1:A:158:GLY:CA	2.51	0.89
1:D:72:GLU:CG	1:D:183:ARG:CZ	2.51	0.89
1:H:64:ILE:CG2	1:J:171:LEU:HD22	1.94	0.89
1:F:72:GLU:CG	1:F:183:ARG:HH11	1.85	0.89
1:H:245:GLY:O	1:J:323:SER:CA	2.20	0.89
1:B:72:GLU:CG	1:B:183:ARG:CZ	2.51	0.89
1:C:50:LYS:HG3	1:E:148:THR:CG2	2.01	0.89
1:F:50:LYS:HG3	1:H:148:THR:CG2	2.01	0.89
1:F:74:GLY:N	1:F:158:GLY:N	2.04	0.89
1:F:142:LEU:CD1	1:F:152:VAL:HG23	1.91	0.89
1:F:245:GLY:O	1:H:323:SER:CA	2.20	0.89
1:F:245:GLY:HA3	1:H:324:THR:N	1.87	0.89
1:J:72:GLU:CG	1:J:183:ARG:CZ	2.51	0.89
1:C:245:GLY:O	1:E:323:SER:CA	2.20	0.89
1:D:245:GLY:O	1:F:323:SER:CA	2.20	0.89
1:E:74:GLY:CA	1:E:158:GLY:CA	2.51	0.89
1:F:110:LEU:HD11	1:F:177:ARG:O	1.72	0.89
1:D:204:ALA:CA	1:F:288:ASP:HA	2.00	0.89
1:H:74:GLY:CA	1:H:158:GLY:CA	2.51	0.89
1:J:74:GLY:N	1:J:158:GLY:N	2.04	0.89
1:B:245:GLY:O	1:D:323:SER:CA	2.20	0.88
1:D:74:GLY:CA	1:D:158:GLY:CA	2.51	0.88
1:D:109:PRO:HD2	1:D:159:VAL:HG13	1.33	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:110:LEU:HD12	1:E:178:LEU:H	1.37	0.88
1:F:74:GLY:CA	1:F:158:GLY:CA	2.51	0.88
1:I:110:LEU:HD11	1:I:177:ARG:O	1.72	0.88
1:A:64:ILE:HD11	1:C:166:TYR:HB3	1.55	0.88
1:A:246:GLN:CB	1:C:322:PRO:CB	2.21	0.88
1:B:72:GLU:CB	1:B:183:ARG:NH1	1.96	0.88
1:F:72:GLU:CG	1:F:183:ARG:CZ	2.51	0.88
1:H:64:ILE:HD11	1:J:166:TYR:HB3	1.55	0.88
1:B:77:THR:HG23	1:B:183:ARG:HH12	1.29	0.88
1:C:72:GLU:CG	1:C:183:ARG:HH11	1.85	0.88
1:D:44:MET:HE3	1:F:149:THR:O	1.21	0.88
1:G:74:GLY:CA	1:G:157:ASP:C	2.35	0.88
1:H:72:GLU:CG	1:H:183:ARG:CZ	2.51	0.88
1:C:74:GLY:CA	1:C:158:GLY:CA	2.51	0.88
1:I:72:GLU:CG	1:I:183:ARG:CZ	2.51	0.88
1:D:245:GLY:HA3	1:F:324:THR:N	1.87	0.88
1:G:74:GLY:CA	1:G:158:GLY:CA	2.51	0.88
1:J:110:LEU:HD11	1:J:177:ARG:O	1.72	0.88
1:A:72:GLU:CB	1:A:183:ARG:NH1	1.96	0.88
1:F:246:GLN:N	1:H:323:SER:N	2.22	0.88
1:A:72:GLU:CG	1:A:183:ARG:CZ	2.51	0.88
1:B:109:PRO:HD2	1:B:159:VAL:HG13	1.33	0.88
1:C:64:ILE:HD11	1:E:166:TYR:HB3	1.55	0.88
1:C:246:GLN:CB	1:E:322:PRO:CB	2.21	0.88
1:D:74:GLY:N	1:D:158:GLY:N	2.04	0.88
1:E:72:GLU:CG	1:E:183:ARG:HH11	1.85	0.88
1:E:74:GLY:CA	1:E:157:ASP:C	2.35	0.88
1:I:72:GLU:CG	1:I:183:ARG:HH11	1.85	0.88
1:E:72:GLU:CG	1:E:183:ARG:CZ	2.51	0.87
1:A:110:LEU:HD12	1:A:178:LEU:H	1.37	0.87
1:B:246:GLN:N	1:D:323:SER:N	2.22	0.87
1:C:72:GLU:CG	1:C:183:ARG:CZ	2.51	0.87
1:F:64:ILE:HD11	1:H:166:TYR:HB3	1.55	0.87
1:B:74:GLY:CA	1:B:158:GLY:CA	2.51	0.87
1:C:246:GLN:N	1:E:323:SER:N	2.22	0.87
1:H:246:GLN:N	1:J:323:SER:N	2.22	0.87
1:I:74:GLY:CA	1:I:158:GLY:CA	2.51	0.87
1:B:246:GLN:CB	1:D:322:PRO:CB	2.21	0.87
1:A:44:MET:CG	1:C:165:ILE:HB	1.79	0.87
1:D:110:LEU:CD1	1:D:177:ARG:C	1.90	0.87
1:C:44:MET:HE3	1:E:149:THR:O	1.21	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:142:LEU:CD1	1:G:152:VAL:HG23	1.91	0.87
1:H:72:GLU:CG	1:H:183:ARG:HH11	1.85	0.87
1:D:50:LYS:HG3	1:F:148:THR:CG2	2.01	0.87
1:D:246:GLN:N	1:F:323:SER:N	2.22	0.87
1:H:74:GLY:CA	1:H:157:ASP:C	2.35	0.87
1:H:204:ALA:CA	1:J:288:ASP:HA	2.00	0.87
1:I:74:GLY:CA	1:I:157:ASP:C	2.35	0.87
1:A:50:LYS:HG3	1:C:148:THR:CG2	2.01	0.87
1:D:64:ILE:HD11	1:F:166:TYR:HB3	1.55	0.87
1:D:245:GLY:CA	1:F:324:THR:C	2.35	0.87
1:B:204:ALA:CA	1:D:288:ASP:HA	2.00	0.87
1:B:245:GLY:HA2	1:D:325:MET:N	1.77	0.87
1:D:110:LEU:H	1:D:161:HIS:HE1	0.88	0.87
1:E:60:SER:HB2	1:G:289:ILE:CG2	2.05	0.87
1:J:74:GLY:CA	1:J:157:ASP:C	2.35	0.87
1:E:64:ILE:HD11	1:G:166:TYR:HB3	1.55	0.86
1:G:245:GLY:HA2	1:I:325:MET:N	1.77	0.86
1:A:246:GLN:N	1:C:323:SER:N	2.22	0.86
1:C:64:ILE:CG2	1:E:171:LEU:HD22	1.94	0.86
1:D:142:LEU:CD1	1:D:152:VAL:HG23	1.91	0.86
1:G:245:GLY:CA	1:I:324:THR:C	2.35	0.86
1:G:110:LEU:HD12	1:G:178:LEU:H	1.37	0.86
1:A:72:GLU:CG	1:A:183:ARG:HH11	1.85	0.86
1:G:60:SER:HB2	1:I:289:ILE:CG2	2.05	0.86
1:H:60:SER:HB2	1:J:289:ILE:CG2	2.05	0.86
1:C:60:SER:HB2	1:E:289:ILE:CG2	2.05	0.86
1:C:72:GLU:CB	1:C:183:ARG:NH1	1.96	0.86
1:D:72:GLU:CB	1:D:183:ARG:NH1	1.96	0.86
1:B:64:ILE:HD11	1:D:166:TYR:HB3	1.55	0.86
1:B:74:GLY:CA	1:B:157:ASP:C	2.35	0.86
1:G:72:GLU:CG	1:G:183:ARG:HH11	1.85	0.86
1:J:110:LEU:H	1:J:161:HIS:HE1	0.88	0.86
1:A:60:SER:HB2	1:C:289:ILE:CG2	2.05	0.86
1:C:245:GLY:HA3	1:E:324:THR:N	1.87	0.86
1:B:74:GLY:N	1:B:158:GLY:N	2.04	0.85
1:B:110:LEU:H	1:B:161:HIS:HE1	0.88	0.85
1:F:60:SER:HB2	1:H:289:ILE:CG2	2.05	0.85
1:G:64:ILE:HD11	1:I:166:TYR:HB3	1.55	0.85
1:E:64:ILE:CG2	1:G:171:LEU:HD22	1.94	0.85
1:E:110:LEU:H	1:E:161:HIS:HE1	0.88	0.85
1:J:74:GLY:CA	1:J:158:GLY:CA	2.51	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:74:GLY:CA	1:C:157:ASP:C	2.35	0.85
1:G:72:GLU:CG	1:G:183:ARG:CZ	2.51	0.85
1:B:50:LYS:HG3	1:D:148:THR:CG2	2.01	0.85
1:B:60:SER:HB2	1:D:289:ILE:CG2	2.05	0.85
1:B:142:LEU:CD1	1:B:152:VAL:HG23	1.91	0.85
1:E:245:GLY:HA3	1:G:324:THR:N	1.87	0.85
1:G:60:SER:CB	1:I:289:ILE:HG23	1.90	0.85
1:I:109:PRO:C	1:I:161:HIS:HE1	1.74	0.85
1:I:142:LEU:CD1	1:I:152:VAL:HG23	1.91	0.85
1:B:243:PRO:O	1:D:325:MET:HA	1.77	0.85
1:E:204:ALA:CA	1:G:288:ASP:HA	2.00	0.85
1:G:50:LYS:HG3	1:I:148:THR:CG2	2.01	0.85
1:B:72:GLU:CG	1:B:183:ARG:HH11	1.85	0.85
1:D:60:SER:HB2	1:F:289:ILE:CG2	2.05	0.85
1:G:246:GLN:CB	1:I:322:PRO:CB	2.21	0.85
1:E:60:SER:OG	1:G:288:ASP:HB3	1.77	0.84
1:C:60:SER:OG	1:E:288:ASP:HB3	1.77	0.84
1:E:243:PRO:O	1:G:325:MET:HA	1.77	0.84
1:H:243:PRO:O	1:J:325:MET:HA	1.77	0.84
1:H:246:GLN:CB	1:J:322:PRO:CB	2.21	0.84
1:A:60:SER:OG	1:C:288:ASP:HB3	1.77	0.84
1:G:60:SER:OG	1:I:288:ASP:HB3	1.77	0.84
1:H:61:LYS:HG3	1:J:289:ILE:HG21	1.59	0.84
1:B:44:MET:HE3	1:D:149:THR:O	1.21	0.84
1:C:243:PRO:O	1:E:325:MET:HA	1.77	0.84
1:I:110:LEU:HD12	1:I:178:LEU:H	1.37	0.84
1:A:245:GLY:HA3	1:C:324:THR:N	1.87	0.84
1:C:205:GLU:H	1:E:287:VAL:HG12	1.41	0.84
1:F:61:LYS:HG3	1:H:289:ILE:HG21	1.59	0.84
1:F:204:ALA:CA	1:H:288:ASP:CA	2.41	0.84
1:H:205:GLU:H	1:J:287:VAL:HG12	1.41	0.84
1:A:205:GLU:H	1:C:287:VAL:HG12	1.41	0.84
1:A:243:PRO:O	1:C:325:MET:HA	1.77	0.84
1:D:243:PRO:O	1:F:325:MET:HA	1.77	0.84
1:F:205:GLU:H	1:H:287:VAL:HG12	1.41	0.84
1:G:45:VAL:O	1:I:142:LEU:CD1	2.10	0.84
1:D:110:LEU:HD12	1:D:178:LEU:H	1.37	0.84
1:E:205:GLU:H	1:G:287:VAL:HG12	1.41	0.84
1:F:60:SER:OG	1:H:288:ASP:HB3	1.77	0.84
1:B:110:LEU:HD12	1:B:178:LEU:H	1.37	0.84
1:C:245:GLY:HA2	1:E:325:MET:N	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:61:LYS:HG3	1:F:289:ILE:HG21	1.59	0.84
1:E:246:GLN:N	1:G:323:SER:N	2.22	0.84
1:G:64:ILE:CG2	1:I:171:LEU:HD22	1.94	0.84
1:H:202:THR:HG23	1:J:286:ASP:O	1.40	0.84
1:B:60:SER:OG	1:D:288:ASP:HB3	1.77	0.83
1:D:60:SER:OG	1:F:288:ASP:HB3	1.77	0.83
1:B:204:ALA:CA	1:D:288:ASP:CA	2.41	0.83
1:B:109:PRO:C	1:B:161:HIS:CE1	2.37	0.83
1:F:110:LEU:HD12	1:F:178:LEU:H	1.37	0.83
1:H:110:LEU:HD12	1:H:178:LEU:H	1.37	0.83
1:A:44:MET:HE3	1:C:149:THR:O	1.21	0.83
1:D:64:ILE:CG2	1:F:171:LEU:HD22	1.94	0.83
1:E:64:ILE:HD11	1:G:166:TYR:CB	2.08	0.83
1:E:72:GLU:CB	1:E:183:ARG:NH1	1.97	0.83
1:F:243:PRO:O	1:H:325:MET:HA	1.77	0.83
1:G:64:ILE:HD11	1:I:166:TYR:CB	2.08	0.83
1:G:246:GLN:N	1:I:323:SER:N	2.22	0.83
1:F:64:ILE:HD11	1:H:166:TYR:CB	2.08	0.83
1:H:64:ILE:HD11	1:J:166:TYR:CB	2.08	0.83
1:J:110:LEU:HD12	1:J:178:LEU:H	1.37	0.83
1:C:64:ILE:HD11	1:E:166:TYR:CB	2.08	0.83
1:D:64:ILE:HD11	1:F:166:TYR:CB	2.08	0.83
1:E:60:SER:CB	1:G:289:ILE:HG23	1.90	0.83
1:A:64:ILE:HD11	1:C:166:TYR:CB	2.08	0.83
1:B:61:LYS:HG3	1:D:289:ILE:HG21	1.60	0.83
1:G:44:MET:HE3	1:I:149:THR:O	1.21	0.83
1:D:205:GLU:H	1:F:287:VAL:HG12	1.41	0.83
1:G:205:GLU:H	1:I:287:VAL:HG12	1.41	0.83
1:G:243:PRO:O	1:I:325:MET:HA	1.77	0.83
1:B:64:ILE:HD11	1:D:166:TYR:CB	2.08	0.83
1:C:48:GLY:H	1:E:148:THR:HG23	1.42	0.83
1:D:74:GLY:CA	1:D:157:ASP:C	2.35	0.83
1:G:74:GLY:N	1:G:157:ASP:O	2.12	0.83
1:H:110:LEU:H	1:H:161:HIS:HE1	0.88	0.83
1:C:74:GLY:N	1:C:157:ASP:O	2.12	0.82
1:I:108:ALA:HB1	1:I:159:VAL:CG1	2.10	0.82
1:A:60:SER:HA	1:C:288:ASP:HB2	1.62	0.82
1:A:74:GLY:N	1:A:158:GLY:N	2.04	0.82
1:C:110:LEU:H	1:C:161:HIS:HE1	0.88	0.82
1:E:110:LEU:CD1	1:E:178:LEU:H	1.91	0.82
1:G:108:ALA:HB1	1:G:159:VAL:CG1	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:245:GLY:HA3	1:I:324:THR:N	1.87	0.82
1:H:60:SER:OG	1:J:288:ASP:HB3	1.77	0.82
1:A:61:LYS:HG3	1:C:289:ILE:HG21	1.60	0.82
1:C:40:HIS:O	1:E:169:TYR:CE1	2.33	0.82
1:G:61:LYS:HG3	1:I:289:ILE:HG21	1.59	0.82
1:C:50:LYS:CB	1:E:148:THR:CG2	2.57	0.82
1:C:110:LEU:CD1	1:C:178:LEU:H	1.91	0.82
1:E:108:ALA:HB1	1:E:159:VAL:CG1	2.10	0.82
1:E:61:LYS:HG3	1:G:289:ILE:HG21	1.59	0.82
1:B:205:GLU:H	1:D:287:VAL:HG12	1.41	0.82
1:E:60:SER:HA	1:G:288:ASP:HB2	1.62	0.82
1:G:60:SER:HA	1:I:288:ASP:HB2	1.62	0.82
1:H:40:HIS:O	1:J:169:TYR:CE1	2.32	0.82
1:I:72:GLU:CB	1:I:183:ARG:CZ	2.50	0.82
1:A:48:GLY:H	1:C:148:THR:HG23	1.42	0.82
1:B:74:GLY:N	1:B:157:ASP:O	2.12	0.82
1:C:108:ALA:HB1	1:C:159:VAL:CG1	2.10	0.82
1:F:202:THR:HG23	1:H:286:ASP:O	1.40	0.82
1:A:74:GLY:N	1:A:157:ASP:HB3	1.94	0.82
1:B:108:ALA:HB1	1:B:159:VAL:CG1	2.10	0.82
1:F:40:HIS:O	1:H:169:TYR:CE1	2.33	0.82
1:I:74:GLY:N	1:I:157:ASP:O	2.12	0.82
1:A:50:LYS:CB	1:C:148:THR:CG2	2.57	0.82
1:A:74:GLY:CA	1:A:157:ASP:C	2.35	0.82
1:A:48:GLY:O	1:C:148:THR:HG22	1.80	0.81
1:A:74:GLY:N	1:A:157:ASP:O	2.12	0.81
1:B:48:GLY:H	1:D:148:THR:HG23	1.42	0.81
1:B:60:SER:HA	1:D:288:ASP:HB2	1.62	0.81
1:C:205:GLU:HG3	1:E:287:VAL:CG1	2.10	0.81
1:D:48:GLY:H	1:F:148:THR:HG23	1.42	0.81
1:D:108:ALA:HB1	1:D:159:VAL:CG1	2.10	0.81
1:E:40:HIS:O	1:G:169:TYR:CE1	2.32	0.81
1:F:60:SER:HA	1:H:288:ASP:HB2	1.62	0.81
1:G:48:GLY:O	1:I:148:THR:HG22	1.80	0.81
1:A:40:HIS:O	1:C:169:TYR:CE1	2.32	0.81
1:A:205:GLU:HG3	1:C:287:VAL:CG1	2.10	0.81
1:B:45:VAL:O	1:D:142:LEU:CD1	2.10	0.81
1:C:61:LYS:HG3	1:E:289:ILE:HG21	1.59	0.81
1:H:245:GLY:HA2	1:J:325:MET:N	1.77	0.81
1:A:108:ALA:HB1	1:A:159:VAL:CG1	2.10	0.81
1:C:60:SER:CB	1:E:289:ILE:HG23	1.90	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:74:GLY:N	1:D:157:ASP:O	2.12	0.81
1:E:245:GLY:CA	1:G:324:THR:C	2.35	0.81
1:F:74:GLY:N	1:F:157:ASP:O	2.12	0.81
1:H:109:PRO:CD	1:H:159:VAL:HG12	1.96	0.81
1:J:74:GLY:N	1:J:157:ASP:O	2.12	0.81
1:B:40:HIS:O	1:D:169:TYR:CE1	2.32	0.81
1:C:74:GLY:N	1:C:157:ASP:HB3	1.94	0.81
1:H:48:GLY:O	1:J:148:THR:HG22	1.80	0.81
1:J:110:LEU:CD1	1:J:178:LEU:CA	2.59	0.81
1:H:48:GLY:H	1:J:148:THR:HG23	1.42	0.81
1:A:45:VAL:O	1:C:142:LEU:CD1	2.10	0.81
1:E:48:GLY:H	1:G:148:THR:HG23	1.43	0.81
1:F:109:PRO:CD	1:F:159:VAL:HG12	1.96	0.81
1:G:40:HIS:O	1:I:169:TYR:CE1	2.33	0.81
1:E:74:GLY:N	1:E:157:ASP:O	2.12	0.81
1:F:48:GLY:O	1:H:148:THR:HG22	1.80	0.81
1:F:108:ALA:HB1	1:F:159:VAL:CG1	2.10	0.81
1:J:108:ALA:HB1	1:J:159:VAL:CG1	2.10	0.81
1:H:110:LEU:CD1	1:H:178:LEU:CA	2.59	0.81
1:F:45:VAL:O	1:H:142:LEU:CD1	2.10	0.81
1:C:48:GLY:O	1:E:148:THR:HG22	1.80	0.81
1:C:60:SER:HA	1:E:288:ASP:HB2	1.62	0.81
1:D:72:GLU:HB3	1:D:183:ARG:HH11	0.64	0.81
1:B:72:GLU:CB	1:B:183:ARG:CZ	2.50	0.80
1:B:110:LEU:CD1	1:B:178:LEU:CA	2.59	0.80
1:D:48:GLY:O	1:F:148:THR:HG22	1.80	0.80
1:E:48:GLY:O	1:G:148:THR:HG22	1.80	0.80
1:H:44:MET:CG	1:J:150:GLY:O	2.30	0.80
1:E:45:VAL:O	1:G:142:LEU:CD1	2.10	0.80
1:E:74:GLY:N	1:E:157:ASP:HB3	1.94	0.80
1:F:44:MET:CG	1:H:150:GLY:O	2.30	0.80
1:F:110:LEU:CD1	1:F:178:LEU:CA	2.59	0.80
1:A:60:SER:CB	1:C:289:ILE:HG23	1.90	0.80
1:A:110:LEU:CD1	1:A:178:LEU:CA	2.59	0.80
1:B:44:MET:CG	1:D:150:GLY:C	2.54	0.80
1:C:42:GLY:CA	1:E:169:TYR:CG	2.52	0.80
1:C:44:MET:CG	1:E:150:GLY:O	2.30	0.80
1:D:202:THR:HG23	1:F:286:ASP:O	1.40	0.80
1:H:74:GLY:N	1:H:157:ASP:O	2.12	0.80
1:C:110:LEU:CD1	1:C:178:LEU:CA	2.59	0.80
1:D:40:HIS:O	1:F:169:TYR:CE1	2.33	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:44:MET:CG	1:F:150:GLY:O	2.30	0.80
1:A:44:MET:CG	1:C:150:GLY:C	2.54	0.80
1:B:44:MET:CG	1:D:150:GLY:O	2.30	0.80
1:E:61:LYS:HG2	1:G:289:ILE:HD12	1.64	0.80
1:E:110:LEU:CD1	1:E:178:LEU:CA	2.59	0.80
1:F:74:GLY:N	1:F:157:ASP:HB3	1.94	0.80
1:G:72:GLU:HB3	1:G:183:ARG:HH11	0.64	0.80
1:G:110:LEU:CD1	1:G:178:LEU:CA	2.59	0.80
1:H:72:GLU:HB3	1:H:183:ARG:HH11	0.64	0.80
1:B:110:LEU:HB2	1:B:159:VAL:HG21	1.45	0.80
1:D:110:LEU:CD1	1:D:178:LEU:CA	2.59	0.80
1:G:61:LYS:HG2	1:I:289:ILE:HD12	1.64	0.80
1:I:110:LEU:CD1	1:I:178:LEU:CA	2.59	0.80
1:C:44:MET:CG	1:E:150:GLY:C	2.54	0.80
1:D:44:MET:CG	1:F:150:GLY:C	2.54	0.80
1:H:204:ALA:HB2	1:J:288:ASP:CB	2.11	0.80
1:A:44:MET:CG	1:C:150:GLY:O	2.30	0.80
1:G:44:MET:CG	1:I:150:GLY:O	2.30	0.80
1:G:205:GLU:HG3	1:I:287:VAL:CG1	2.10	0.80
1:H:108:ALA:HB1	1:H:159:VAL:CG1	2.10	0.80
1:B:245:GLY:N	1:D:325:MET:N	2.30	0.80
1:D:109:PRO:CD	1:D:159:VAL:HG12	1.96	0.80
1:F:204:ALA:HB2	1:H:288:ASP:CB	2.11	0.80
1:H:204:ALA:CB	1:J:288:ASP:CB	2.56	0.80
1:C:108:ALA:CB	1:C:159:VAL:HG12	2.13	0.79
1:D:204:ALA:HB2	1:F:288:ASP:CB	2.11	0.79
1:G:74:GLY:N	1:G:157:ASP:HB3	1.94	0.79
1:G:204:ALA:HB2	1:I:288:ASP:CB	2.11	0.79
1:B:48:GLY:O	1:D:148:THR:HG22	1.80	0.79
1:B:204:ALA:HB2	1:D:288:ASP:CB	2.11	0.79
1:E:44:MET:CG	1:G:150:GLY:C	2.54	0.79
1:G:108:ALA:CB	1:G:159:VAL:HG12	2.13	0.79
1:H:142:LEU:HB2	1:H:152:VAL:HG21	1.64	0.79
1:C:72:GLU:HB3	1:C:183:ARG:HH11	0.64	0.79
1:D:245:GLY:N	1:F:325:MET:N	2.30	0.79
1:E:204:ALA:HB2	1:G:288:ASP:CB	2.11	0.79
1:H:245:GLY:N	1:J:325:MET:N	2.30	0.79
1:J:142:LEU:HB2	1:J:152:VAL:HG21	1.64	0.79
1:B:61:LYS:HG2	1:D:289:ILE:HD12	1.64	0.79
1:D:60:SER:HA	1:F:288:ASP:HB2	1.62	0.79
1:D:205:GLU:HG3	1:F:287:VAL:CG1	2.10	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:44:MET:CG	1:G:150:GLY:O	2.30	0.79
1:E:245:GLY:N	1:G:325:MET:N	2.30	0.79
1:H:74:GLY:N	1:H:157:ASP:HB3	1.94	0.79
1:I:108:ALA:CB	1:I:159:VAL:HG12	2.13	0.79
1:F:44:MET:CG	1:H:150:GLY:C	2.54	0.79
1:F:142:LEU:HB2	1:F:152:VAL:HG21	1.64	0.79
1:G:245:GLY:N	1:I:325:MET:N	2.30	0.79
1:H:50:LYS:CB	1:J:148:THR:CG2	2.58	0.79
1:A:204:ALA:HB2	1:C:288:ASP:CB	2.11	0.79
1:A:245:GLY:N	1:C:325:MET:N	2.30	0.79
1:C:204:ALA:HB2	1:E:288:ASP:CB	2.11	0.79
1:D:50:LYS:CB	1:F:148:THR:CG2	2.57	0.79
1:F:205:GLU:HG3	1:H:287:VAL:CG1	2.10	0.79
1:H:60:SER:HA	1:J:288:ASP:HB2	1.62	0.79
1:A:108:ALA:CB	1:A:159:VAL:HG12	2.13	0.79
1:B:205:GLU:HG3	1:D:287:VAL:CG1	2.10	0.79
1:C:74:GLY:N	1:C:158:GLY:N	2.04	0.79
1:D:109:PRO:C	1:D:161:HIS:CE1	2.37	0.79
1:G:44:MET:CG	1:I:150:GLY:C	2.54	0.79
1:H:205:GLU:HG3	1:J:287:VAL:CG1	2.10	0.79
1:C:45:VAL:O	1:E:142:LEU:HD12	1.34	0.79
1:C:74:GLY:N	1:C:157:ASP:CA	2.46	0.79
1:C:245:GLY:N	1:E:325:MET:N	2.30	0.79
1:F:204:ALA:CB	1:H:288:ASP:CB	2.56	0.79
1:I:72:GLU:CG	1:I:183:ARG:HG2	2.08	0.79
1:B:50:LYS:CB	1:D:148:THR:CG2	2.57	0.79
1:B:74:GLY:N	1:B:157:ASP:CA	2.46	0.79
1:B:246:GLN:N	1:D:322:PRO:HB3	1.82	0.79
1:D:142:LEU:HB2	1:D:152:VAL:HG21	1.64	0.79
1:F:110:LEU:H	1:F:161:HIS:HE1	0.88	0.79
1:A:110:LEU:H	1:A:161:HIS:HE1	0.88	0.79
1:C:61:LYS:HG2	1:E:289:ILE:HD12	1.64	0.79
1:D:204:ALA:CB	1:F:288:ASP:CB	2.55	0.79
1:A:44:MET:CE	1:C:149:THR:O	2.14	0.78
1:F:74:GLY:N	1:F:157:ASP:CA	2.46	0.78
1:G:72:GLU:CG	1:G:183:ARG:HG2	2.08	0.78
1:G:74:GLY:N	1:G:157:ASP:CA	2.46	0.78
1:H:108:ALA:CB	1:H:159:VAL:HG12	2.12	0.78
1:A:42:GLY:CA	1:C:169:TYR:CG	2.52	0.78
1:B:72:GLU:CG	1:B:183:ARG:HG2	2.08	0.78
1:C:73:HIS:O	1:C:158:GLY:HA3	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:44:MET:CG	1:F:165:ILE:HB	1.80	0.78
1:D:74:GLY:N	1:D:157:ASP:CA	2.46	0.78
1:D:108:ALA:CB	1:D:159:VAL:HG12	2.13	0.78
1:E:205:GLU:HG3	1:G:287:VAL:CG1	2.10	0.78
1:F:245:GLY:N	1:H:325:MET:N	2.30	0.78
1:H:61:LYS:HG2	1:J:289:ILE:HD12	1.64	0.78
1:I:74:GLY:N	1:I:157:ASP:HB3	1.94	0.78
1:B:44:MET:CG	1:D:165:ILE:HB	1.80	0.78
1:B:50:LYS:CG	1:D:148:THR:CG2	2.55	0.78
1:B:108:ALA:CB	1:B:159:VAL:HG12	2.13	0.78
1:E:72:GLU:CG	1:E:183:ARG:HG2	2.08	0.78
1:F:50:LYS:CB	1:H:148:THR:CG2	2.58	0.78
1:J:74:GLY:N	1:J:157:ASP:HB3	1.94	0.78
1:F:72:GLU:HB3	1:F:183:ARG:HH11	0.64	0.78
1:H:74:GLY:N	1:H:157:ASP:CA	2.46	0.78
1:I:73:HIS:O	1:I:158:GLY:HA3	1.84	0.78
1:A:61:LYS:HG2	1:C:289:ILE:HD12	1.64	0.78
1:B:110:LEU:CB	1:B:159:VAL:HG21	2.14	0.78
1:B:142:LEU:HB2	1:B:152:VAL:HG21	1.64	0.78
1:C:72:GLU:CG	1:C:183:ARG:HG2	2.08	0.78
1:D:50:LYS:CG	1:F:148:THR:CG2	2.55	0.78
1:E:74:GLY:N	1:E:157:ASP:CA	2.46	0.78
1:E:108:ALA:CB	1:E:159:VAL:HG12	2.13	0.78
1:H:44:MET:CG	1:J:150:GLY:C	2.54	0.78
1:D:246:GLN:N	1:F:322:PRO:HB3	1.82	0.78
1:F:44:MET:CG	1:H:165:ILE:HB	1.80	0.78
1:F:109:PRO:C	1:F:161:HIS:CE1	2.37	0.78
1:I:110:LEU:HB2	1:I:159:VAL:HG21	1.45	0.78
1:A:72:GLU:CG	1:A:183:ARG:HG2	2.08	0.78
1:A:241:GLU:HG2	1:C:324:THR:OG1	1.84	0.78
1:C:241:GLU:HG2	1:E:324:THR:OG1	1.84	0.78
1:D:72:GLU:CG	1:D:183:ARG:HG2	2.08	0.78
1:J:108:ALA:CB	1:J:159:VAL:HG12	2.13	0.78
1:A:110:LEU:CB	1:A:159:VAL:HG21	2.14	0.78
1:A:142:LEU:HB2	1:A:152:VAL:HG21	1.64	0.78
1:E:72:GLU:HB3	1:E:183:ARG:HH11	0.64	0.78
1:F:48:GLY:H	1:H:148:THR:HG23	1.43	0.78
1:F:108:ALA:CB	1:F:159:VAL:HG12	2.13	0.78
1:H:42:GLY:CA	1:J:169:TYR:CG	2.52	0.78
1:I:74:GLY:N	1:I:157:ASP:CA	2.46	0.78
1:J:72:GLU:CB	1:J:183:ARG:NH1	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:61:LYS:HG2	1:H:289:ILE:HD12	1.64	0.78
1:G:73:HIS:O	1:G:158:GLY:HA3	1.84	0.78
1:G:110:LEU:HB2	1:G:159:VAL:HG21	1.45	0.78
1:H:44:MET:CE	1:J:149:THR:O	2.14	0.78
1:J:72:GLU:HB3	1:J:183:ARG:HH11	0.64	0.78
1:A:74:GLY:N	1:A:157:ASP:CA	2.46	0.77
1:B:109:PRO:CD	1:B:159:VAL:HG12	1.96	0.77
1:C:110:LEU:CB	1:C:159:VAL:HG21	2.14	0.77
1:E:241:GLU:HG2	1:G:324:THR:OG1	1.84	0.77
1:F:72:GLU:CG	1:F:183:ARG:HG2	2.08	0.77
1:G:48:GLY:H	1:I:148:THR:HG23	1.42	0.77
1:A:45:VAL:HG13	1:C:141:SER:O	1.85	0.77
1:D:110:LEU:CB	1:D:159:VAL:HG21	2.14	0.77
1:E:73:HIS:O	1:E:158:GLY:HA3	1.84	0.77
1:J:74:GLY:N	1:J:157:ASP:CA	2.46	0.77
1:J:110:LEU:CB	1:J:159:VAL:HG21	2.14	0.77
1:B:73:HIS:O	1:B:158:GLY:HA3	1.84	0.77
1:D:61:LYS:HG2	1:F:289:ILE:HD12	1.64	0.77
1:F:246:GLN:N	1:H:322:PRO:HB3	1.82	0.77
1:G:45:VAL:HG13	1:I:141:SER:O	1.84	0.77
1:H:61:LYS:HG2	1:J:289:ILE:HD13	1.65	0.77
1:H:72:GLU:CG	1:H:183:ARG:HG2	2.08	0.77
1:D:110:LEU:HB2	1:D:159:VAL:HG21	1.45	0.77
1:J:72:GLU:CG	1:J:183:ARG:HG2	2.08	0.77
1:A:246:GLN:N	1:C:322:PRO:HB3	1.82	0.77
1:C:246:GLN:N	1:E:322:PRO:HB3	1.82	0.77
1:F:73:HIS:O	1:F:158:GLY:HA3	1.83	0.77
1:H:204:ALA:CA	1:J:288:ASP:CA	2.41	0.77
1:I:109:PRO:C	1:I:161:HIS:CE1	2.37	0.77
1:A:61:LYS:HG2	1:C:289:ILE:HD13	1.65	0.77
1:C:111:ASN:C	1:C:177:ARG:HH22	1.93	0.77
1:D:73:HIS:O	1:D:158:GLY:HA3	1.84	0.77
1:E:110:LEU:CB	1:E:159:VAL:HG21	2.14	0.77
1:F:44:MET:CE	1:H:149:THR:O	2.14	0.77
1:H:246:GLN:N	1:J:322:PRO:HB3	1.82	0.77
1:J:73:HIS:O	1:J:158:GLY:HA3	1.84	0.77
1:D:111:ASN:C	1:D:177:ARG:HH22	1.93	0.77
1:G:110:LEU:CB	1:G:159:VAL:HG21	2.14	0.77
1:H:73:HIS:O	1:H:158:GLY:HA3	1.84	0.77
1:J:111:ASN:C	1:J:177:ARG:HH22	1.93	0.77
1:A:72:GLU:HB3	1:A:183:ARG:HH11	0.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:110:LEU:CB	1:H:159:VAL:HG21	2.14	0.77
1:C:45:VAL:HG13	1:E:141:SER:O	1.85	0.77
1:F:61:LYS:HG2	1:H:289:ILE:HD13	1.65	0.77
1:A:73:HIS:O	1:A:158:GLY:HA3	1.84	0.77
1:C:142:LEU:HB2	1:C:152:VAL:HG21	1.64	0.77
1:E:45:VAL:O	1:G:142:LEU:HD12	1.34	0.77
1:E:61:LYS:HG2	1:G:289:ILE:HD13	1.65	0.77
1:I:111:ASN:C	1:I:177:ARG:HH22	1.93	0.77
1:C:45:VAL:O	1:E:142:LEU:CD1	2.10	0.76
1:F:45:VAL:HG13	1:H:141:SER:O	1.84	0.76
1:G:241:GLU:HG2	1:I:324:THR:OG1	1.84	0.76
1:H:241:GLU:HG2	1:J:324:THR:OG1	1.84	0.76
1:B:111:ASN:C	1:B:177:ARG:HH22	1.93	0.76
1:E:50:LYS:CG	1:G:148:THR:CG2	2.55	0.76
1:E:111:ASN:C	1:E:177:ARG:HH22	1.93	0.76
1:I:110:LEU:CB	1:I:159:VAL:HG21	2.14	0.76
1:A:111:ASN:C	1:A:177:ARG:HH22	1.93	0.76
1:B:45:VAL:HG13	1:D:141:SER:O	1.85	0.76
1:F:34:ILE:HG22	1:F:84:LYS:HZ1	1.50	0.76
1:F:111:ASN:C	1:F:177:ARG:HH22	1.93	0.76
1:G:61:LYS:HG2	1:I:289:ILE:HD13	1.65	0.76
1:B:45:VAL:O	1:D:142:LEU:HD12	1.34	0.76
1:C:61:LYS:HG2	1:E:289:ILE:HD13	1.65	0.76
1:E:246:GLN:N	1:G:322:PRO:HB3	1.82	0.76
1:F:110:LEU:CB	1:F:159:VAL:HG21	2.14	0.76
1:C:44:MET:CG	1:E:165:ILE:HB	1.80	0.76
1:D:45:VAL:HG13	1:F:141:SER:O	1.85	0.76
1:B:61:LYS:HG2	1:D:289:ILE:HD13	1.65	0.76
1:D:61:LYS:HG2	1:F:289:ILE:HD13	1.66	0.76
1:E:45:VAL:HG13	1:G:141:SER:O	1.85	0.76
1:F:241:GLU:HG2	1:H:324:THR:OG1	1.84	0.76
1:H:246:GLN:CA	1:J:322:PRO:CB	2.59	0.76
1:B:241:GLU:HG2	1:D:324:THR:OG1	1.84	0.76
1:C:44:MET:CE	1:E:149:THR:O	2.14	0.76
1:D:44:MET:CE	1:F:149:THR:O	2.14	0.76
1:D:45:VAL:O	1:F:142:LEU:HD12	1.34	0.76
1:E:142:LEU:HB2	1:E:152:VAL:HG21	1.64	0.76
1:I:142:LEU:HB2	1:I:152:VAL:HG21	1.64	0.76
1:G:142:LEU:HB2	1:G:152:VAL:HG21	1.64	0.76
1:H:111:ASN:C	1:H:177:ARG:HH22	1.93	0.76
1:I:110:LEU:H	1:I:161:HIS:HE1	0.88	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:74:GLY:N	1:B:157:ASP:HB3	1.94	0.76
1:D:142:LEU:CD1	1:D:152:VAL:HG21	2.01	0.76
1:E:60:SER:O	1:G:289:ILE:CD1	2.24	0.76
1:G:111:ASN:C	1:G:177:ARG:HH22	1.93	0.76
1:G:45:VAL:O	1:I:142:LEU:HD12	1.34	0.76
1:F:45:VAL:O	1:H:142:LEU:HD12	1.34	0.75
1:H:142:LEU:CD1	1:H:152:VAL:HG21	2.01	0.75
1:D:241:GLU:HG2	1:F:324:THR:OG1	1.84	0.75
1:E:110:LEU:HB2	1:E:159:VAL:HG21	1.45	0.75
1:G:245:GLY:CA	1:I:324:THR:OG1	2.35	0.75
1:H:61:LYS:CG	1:J:289:ILE:HG21	2.17	0.75
1:B:61:LYS:CG	1:D:289:ILE:HG21	2.17	0.75
1:C:245:GLY:CA	1:E:324:THR:OG1	2.35	0.75
1:D:61:LYS:CG	1:F:289:ILE:HG21	2.17	0.75
1:E:60:SER:CA	1:G:288:ASP:HB2	2.17	0.75
1:E:245:GLY:CA	1:G:324:THR:OG1	2.35	0.75
1:F:61:LYS:CG	1:H:289:ILE:HG21	2.17	0.75
1:A:60:SER:CA	1:C:288:ASP:HB2	2.17	0.75
1:D:74:GLY:N	1:D:157:ASP:HB3	1.94	0.75
1:D:245:GLY:O	1:F:324:THR:OG1	2.01	0.75
1:G:246:GLN:N	1:I:322:PRO:HB3	1.82	0.75
1:A:245:GLY:CA	1:C:324:THR:OG1	2.35	0.75
1:C:212:ILE:HG23	1:C:216:LEU:HD12	1.68	0.75
1:E:74:GLY:CA	1:E:157:ASP:CB	2.65	0.75
1:G:60:SER:CA	1:I:288:ASP:HB2	2.17	0.75
1:B:60:SER:CA	1:D:288:ASP:HB2	2.17	0.74
1:B:204:ALA:CB	1:D:288:ASP:CB	2.56	0.74
1:E:50:LYS:CB	1:G:148:THR:CG2	2.58	0.74
1:A:212:ILE:HG23	1:A:216:LEU:HD12	1.68	0.74
1:C:74:GLY:CA	1:C:157:ASP:CB	2.65	0.74
1:D:60:SER:O	1:F:289:ILE:CD1	2.24	0.74
1:E:44:MET:CE	1:G:149:THR:O	2.14	0.74
1:H:45:VAL:HG13	1:J:141:SER:O	1.85	0.74
1:H:45:VAL:O	1:J:142:LEU:CD1	2.10	0.74
1:B:44:MET:CE	1:D:149:THR:O	2.14	0.74
1:G:212:ILE:HG23	1:G:216:LEU:HD12	1.68	0.74
1:H:74:GLY:HA3	1:H:158:GLY:H	0.91	0.74
1:B:212:ILE:HG23	1:B:216:LEU:HD12	1.68	0.74
1:B:246:GLN:CA	1:D:322:PRO:CB	2.59	0.74
1:C:51:ASP:CG	1:E:169:TYR:HH	1.94	0.74
1:C:142:LEU:CD1	1:C:152:VAL:HG21	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:60:SER:CA	1:F:288:ASP:HB2	2.17	0.74
1:D:74:GLY:HA3	1:D:158:GLY:H	0.91	0.74
1:E:212:ILE:HG23	1:E:216:LEU:HD12	1.68	0.74
1:F:317:ILE:HG22	1:F:327:ILE:HD13	1.69	0.74
1:A:61:LYS:CG	1:C:289:ILE:HG21	2.17	0.74
1:A:244:ASP:O	1:C:322:PRO:HB2	1.88	0.74
1:B:245:GLY:CA	1:D:324:THR:OG1	2.35	0.74
1:B:317:ILE:HG22	1:B:327:ILE:HD13	1.69	0.74
1:D:317:ILE:HG22	1:D:327:ILE:HD13	1.69	0.74
1:E:142:LEU:CD1	1:E:152:VAL:HG21	2.01	0.74
1:F:60:SER:CA	1:H:288:ASP:HB2	2.17	0.74
1:G:50:LYS:CB	1:I:148:THR:CG2	2.58	0.74
1:H:45:VAL:O	1:J:142:LEU:HD12	1.34	0.74
1:C:61:LYS:CG	1:E:289:ILE:HG21	2.17	0.74
1:D:212:ILE:HG23	1:D:216:LEU:HD12	1.68	0.74
1:F:246:GLN:HB2	1:H:322:PRO:CG	2.18	0.74
1:G:244:ASP:O	1:I:322:PRO:HB2	1.88	0.74
1:J:73:HIS:CD2	1:J:183:ARG:HH21	2.06	0.74
1:E:34:ILE:HG22	1:E:84:LYS:HZ1	1.53	0.74
1:F:244:ASP:O	1:H:322:PRO:HB2	1.88	0.74
1:G:109:PRO:C	1:G:161:HIS:CE1	2.37	0.74
1:G:160:THR:HG21	1:G:274:ILE:HD11	1.70	0.74
1:H:245:GLY:CA	1:J:324:THR:OG1	2.35	0.74
1:H:245:GLY:C	1:J:324:THR:HG1	1.89	0.74
1:B:246:GLN:HB2	1:D:322:PRO:CG	2.18	0.74
1:E:61:LYS:CG	1:G:289:ILE:HG21	2.17	0.74
1:E:160:THR:HG21	1:E:274:ILE:HD11	1.70	0.74
1:G:61:LYS:CG	1:I:289:ILE:HG21	2.17	0.74
1:G:73:HIS:CD2	1:G:183:ARG:HH21	2.06	0.74
1:H:244:ASP:O	1:J:322:PRO:HB2	1.88	0.74
1:I:160:THR:HG21	1:I:274:ILE:HD11	1.70	0.74
1:C:60:SER:CA	1:E:288:ASP:HB2	2.17	0.73
1:C:244:ASP:O	1:E:322:PRO:HB2	1.88	0.73
1:F:212:ILE:HG23	1:F:216:LEU:HD12	1.68	0.73
1:G:44:MET:CE	1:I:149:THR:O	2.14	0.73
1:I:73:HIS:CD2	1:I:183:ARG:HH21	2.06	0.73
1:A:73:HIS:CD2	1:A:183:ARG:HH21	2.06	0.73
1:C:74:GLY:HA3	1:C:158:GLY:H	0.91	0.73
1:D:244:ASP:O	1:F:322:PRO:HB2	1.88	0.73
1:H:73:HIS:CD2	1:H:183:ARG:HH21	2.06	0.73
1:A:203:THR:CB	1:C:288:ASP:H	2.02	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:245:GLY:O	1:E:324:THR:OG1	2.01	0.73
1:D:245:GLY:CA	1:F:324:THR:OG1	2.35	0.73
1:E:73:HIS:CD2	1:E:183:ARG:HH21	2.06	0.73
1:E:317:ILE:HG22	1:E:327:ILE:HD13	1.69	0.73
1:F:73:HIS:CD2	1:F:183:ARG:HH21	2.06	0.73
1:H:51:ASP:CG	1:J:169:TYR:HH	1.96	0.73
1:I:74:GLY:HA3	1:I:158:GLY:H	0.91	0.73
1:C:160:THR:HG21	1:C:274:ILE:HD11	1.70	0.73
1:F:245:GLY:O	1:H:324:THR:OG1	2.01	0.73
1:H:212:ILE:HG23	1:H:216:LEU:HD12	1.68	0.73
1:H:317:ILE:HG22	1:H:327:ILE:HD13	1.69	0.73
1:B:202:THR:HG23	1:D:286:ASP:O	1.40	0.73
1:C:317:ILE:HG22	1:C:327:ILE:HD13	1.69	0.73
1:E:203:THR:CB	1:G:288:ASP:H	2.02	0.73
1:F:110:LEU:HB2	1:F:159:VAL:HG21	1.45	0.73
1:H:203:THR:CB	1:J:288:ASP:H	2.02	0.73
1:I:74:GLY:CA	1:I:157:ASP:CB	2.65	0.73
1:I:212:ILE:HG23	1:I:216:LEU:HD12	1.68	0.73
1:A:65:LEU:CG	1:C:166:TYR:CE2	2.71	0.73
1:B:160:THR:HG21	1:B:274:ILE:HD11	1.70	0.73
1:B:203:THR:CB	1:D:288:ASP:H	2.02	0.73
1:D:73:HIS:CD2	1:D:183:ARG:HH21	2.06	0.73
1:F:50:LYS:CG	1:H:148:THR:CG2	2.55	0.73
1:F:203:THR:CB	1:H:288:ASP:H	2.02	0.73
1:G:65:LEU:CG	1:I:166:TYR:CE2	2.71	0.73
1:J:317:ILE:HG22	1:J:327:ILE:HD13	1.69	0.73
1:B:73:HIS:CD2	1:B:183:ARG:HH21	2.06	0.73
1:C:65:LEU:CG	1:E:166:TYR:CE2	2.72	0.73
1:C:246:GLN:CA	1:E:322:PRO:CB	2.59	0.73
1:D:160:THR:HG21	1:D:274:ILE:HD11	1.70	0.73
1:G:245:GLY:HA3	1:I:325:MET:N	1.88	0.73
1:H:65:LEU:CG	1:J:166:TYR:CE2	2.71	0.73
1:J:74:GLY:HA3	1:J:158:GLY:H	0.91	0.73
1:J:212:ILE:HG23	1:J:216:LEU:HD12	1.68	0.73
1:A:246:GLN:HB2	1:C:322:PRO:CG	2.18	0.73
1:B:65:LEU:CG	1:D:166:TYR:CE2	2.72	0.73
1:D:45:VAL:O	1:F:142:LEU:CD1	2.10	0.73
1:E:65:LEU:CG	1:G:166:TYR:CE2	2.72	0.73
1:H:60:SER:CA	1:J:288:ASP:HB2	2.17	0.73
1:A:160:THR:HG21	1:A:274:ILE:HD11	1.70	0.73
1:C:73:HIS:CD2	1:C:183:ARG:HH21	2.06	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:65:LEU:CG	1:F:166:TYR:CE2	2.71	0.73
1:D:203:THR:CB	1:F:288:ASP:H	2.02	0.73
1:F:65:LEU:CG	1:H:166:TYR:CE2	2.71	0.73
1:F:74:GLY:HA3	1:F:158:GLY:H	0.91	0.73
1:E:74:GLY:HA3	1:E:158:GLY:H	0.91	0.72
1:F:245:GLY:CA	1:H:324:THR:OG1	2.35	0.72
1:G:257:CYS:HB3	1:G:258:PRO:HD3	1.71	0.72
1:H:51:ASP:HB3	1:J:169:TYR:OH	1.89	0.72
1:I:317:ILE:HG22	1:I:327:ILE:HD13	1.69	0.72
1:B:244:ASP:O	1:D:322:PRO:HB2	1.88	0.72
1:D:246:GLN:CA	1:F:322:PRO:CB	2.59	0.72
1:E:244:ASP:O	1:G:322:PRO:HB2	1.88	0.72
1:F:160:THR:HG21	1:F:274:ILE:HD11	1.70	0.72
1:G:203:THR:CB	1:I:288:ASP:H	2.02	0.72
1:B:74:GLY:HA3	1:B:158:GLY:H	0.91	0.72
1:C:257:CYS:HB3	1:C:258:PRO:HD3	1.71	0.72
1:E:51:ASP:CG	1:G:169:TYR:HH	1.98	0.72
1:G:74:GLY:HA3	1:G:158:GLY:H	0.91	0.72
1:G:246:GLN:HB2	1:I:322:PRO:CG	2.18	0.72
1:J:257:CYS:HB3	1:J:258:PRO:HD3	1.72	0.72
1:H:246:GLN:HB2	1:J:322:PRO:CG	2.18	0.72
1:A:317:ILE:HG22	1:A:327:ILE:HD13	1.69	0.72
1:D:246:GLN:HB2	1:F:322:PRO:CG	2.18	0.72
1:A:257:CYS:HB3	1:A:258:PRO:HD3	1.71	0.72
1:B:246:GLN:HA	1:D:323:SER:N	2.04	0.72
1:E:51:ASP:HB3	1:G:169:TYR:OH	1.89	0.72
1:F:64:ILE:CG2	1:H:171:LEU:HD22	1.94	0.72
1:H:160:THR:HG21	1:H:274:ILE:HD11	1.70	0.72
1:H:257:CYS:HB3	1:H:258:PRO:HD3	1.72	0.72
1:I:257:CYS:HB3	1:I:258:PRO:HD3	1.72	0.72
1:A:74:GLY:HA3	1:A:158:GLY:H	0.91	0.72
1:A:108:ALA:CA	1:A:159:VAL:HG12	2.20	0.72
1:D:257:CYS:HB3	1:D:258:PRO:HD3	1.71	0.72
1:E:246:GLN:HB2	1:G:322:PRO:CG	2.18	0.72
1:F:74:GLY:CA	1:F:157:ASP:CB	2.65	0.72
1:J:160:THR:HG21	1:J:274:ILE:HD11	1.70	0.72
1:A:51:ASP:HB3	1:C:169:TYR:OH	1.89	0.72
1:B:205:GLU:HA	1:B:208:ILE:HB	1.72	0.72
1:C:203:THR:CB	1:E:288:ASP:H	2.02	0.72
1:D:205:GLU:HA	1:D:208:ILE:HB	1.72	0.72
1:E:246:GLN:CA	1:G:322:PRO:CB	2.59	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:257:CYS:HB3	1:E:258:PRO:HD3	1.71	0.72
1:F:205:GLU:HA	1:F:208:ILE:HB	1.72	0.72
1:H:205:GLU:HA	1:H:208:ILE:HB	1.72	0.72
1:J:74:GLY:CA	1:J:157:ASP:CB	2.65	0.72
1:B:51:ASP:HB3	1:D:169:TYR:OH	1.89	0.72
1:B:142:LEU:CD1	1:B:152:VAL:HG21	2.01	0.72
1:B:257:CYS:HB3	1:B:258:PRO:HD3	1.72	0.72
1:C:34:ILE:HG22	1:C:84:LYS:HZ1	1.55	0.72
1:J:108:ALA:CA	1:J:159:VAL:HG12	2.20	0.72
1:C:51:ASP:HB3	1:E:169:TYR:OH	1.89	0.72
1:C:108:ALA:CA	1:C:159:VAL:HG12	2.20	0.72
1:F:257:CYS:HB3	1:F:258:PRO:HD3	1.72	0.72
1:G:246:GLN:CA	1:I:322:PRO:CB	2.59	0.72
1:D:74:GLY:CA	1:D:157:ASP:CB	2.65	0.71
1:E:108:ALA:CA	1:E:159:VAL:HG12	2.20	0.71
1:E:246:GLN:HA	1:G:323:SER:N	2.04	0.71
1:H:108:ALA:CA	1:H:159:VAL:HG12	2.19	0.71
1:B:245:GLY:HA3	1:D:325:MET:N	1.88	0.71
1:E:245:GLY:HA3	1:G:325:MET:N	1.88	0.71
1:J:205:GLU:HA	1:J:208:ILE:HB	1.72	0.71
1:A:246:GLN:HA	1:C:323:SER:N	2.04	0.71
1:B:74:GLY:CA	1:B:157:ASP:CB	2.65	0.71
1:C:246:GLN:HB2	1:E:322:PRO:CG	2.18	0.71
1:D:51:ASP:HB3	1:F:169:TYR:OH	1.89	0.71
1:E:245:GLY:O	1:G:324:THR:OG1	2.01	0.71
1:F:108:ALA:CA	1:F:159:VAL:HG12	2.20	0.71
1:G:317:ILE:HG22	1:G:327:ILE:HD13	1.69	0.71
1:F:60:SER:O	1:H:289:ILE:CD1	2.24	0.71
1:G:110:LEU:H	1:G:161:HIS:HE1	0.88	0.71
1:G:108:ALA:CA	1:G:159:VAL:HG12	2.20	0.71
1:J:34:ILE:HG22	1:J:84:LYS:HZ1	1.54	0.71
1:D:110:LEU:CD1	1:D:178:LEU:H	1.91	0.71
1:A:45:VAL:O	1:C:142:LEU:HD12	1.34	0.71
1:I:108:ALA:CA	1:I:159:VAL:HG12	2.20	0.71
1:B:108:ALA:CA	1:B:159:VAL:HG12	2.20	0.71
1:D:108:ALA:CA	1:D:159:VAL:HG12	2.20	0.71
1:F:51:ASP:HB3	1:H:169:TYR:OH	1.89	0.71
1:B:245:GLY:O	1:D:323:SER:N	2.24	0.71
1:I:72:GLU:CB	1:I:183:ARG:NH1	1.97	0.71
1:E:65:LEU:HG	1:G:166:TYR:CD2	2.26	0.71
1:G:51:ASP:HB3	1:I:169:TYR:OH	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:51:ASP:CG	1:C:169:TYR:HH	1.99	0.70
1:A:65:LEU:HG	1:C:166:TYR:CD2	2.26	0.70
1:C:65:LEU:HG	1:E:166:TYR:CD2	2.26	0.70
1:G:65:LEU:HG	1:I:166:TYR:CD2	2.26	0.70
1:H:109:PRO:C	1:H:161:HIS:CE1	2.37	0.70
1:H:246:GLN:HA	1:J:323:SER:N	2.04	0.70
1:D:51:ASP:CG	1:F:169:TYR:HH	1.99	0.70
1:D:245:GLY:O	1:F:323:SER:N	2.24	0.70
1:D:246:GLN:HG2	1:F:322:PRO:HA	1.74	0.70
1:I:205:GLU:HA	1:I:208:ILE:HB	1.72	0.70
1:A:34:ILE:HG22	1:A:84:LYS:HZ1	1.55	0.70
1:C:47:MET:C	1:E:148:THR:HG23	2.17	0.70
1:C:246:GLN:HA	1:E:323:SER:N	2.04	0.70
1:C:246:GLN:HG2	1:E:322:PRO:HA	1.74	0.70
1:B:34:ILE:HG22	1:B:84:LYS:HZ1	1.55	0.70
1:E:47:MET:C	1:G:148:THR:HG23	2.17	0.70
1:F:246:GLN:HG2	1:H:322:PRO:HA	1.74	0.70
1:G:246:GLN:HG2	1:I:322:PRO:HA	1.74	0.70
1:J:109:PRO:C	1:J:161:HIS:CE1	2.37	0.70
1:A:205:GLU:HA	1:A:208:ILE:HB	1.72	0.70
1:A:47:MET:C	1:C:148:THR:HG23	2.17	0.70
1:A:60:SER:OG	1:C:288:ASP:CB	2.40	0.70
1:A:246:GLN:CA	1:C:322:PRO:CB	2.59	0.70
1:C:50:LYS:CG	1:E:148:THR:CG2	2.55	0.70
1:H:246:GLN:HG2	1:J:322:PRO:HA	1.74	0.70
1:B:47:MET:C	1:D:148:THR:HG23	2.17	0.70
1:B:65:LEU:HG	1:D:166:TYR:CD2	2.26	0.70
1:C:205:GLU:HA	1:C:208:ILE:HB	1.72	0.70
1:C:245:GLY:HA3	1:E:325:MET:N	1.88	0.70
1:D:245:GLY:HA3	1:F:325:MET:N	1.88	0.70
1:E:109:PRO:C	1:E:161:HIS:CE1	2.37	0.70
1:E:205:GLU:HA	1:E:208:ILE:HB	1.72	0.70
1:F:246:GLN:HA	1:H:323:SER:N	2.04	0.70
1:G:205:GLU:HA	1:G:208:ILE:HB	1.72	0.70
1:H:60:SER:OG	1:J:288:ASP:CB	2.40	0.70
1:A:205:GLU:CG	1:C:287:VAL:HG11	2.20	0.70
1:E:246:GLN:HG2	1:G:322:PRO:HA	1.74	0.70
1:H:74:GLY:CA	1:H:157:ASP:CB	2.65	0.70
1:A:246:GLN:HG2	1:C:322:PRO:HA	1.74	0.70
1:B:246:GLN:HG2	1:D:322:PRO:HA	1.74	0.70
1:D:65:LEU:HG	1:F:166:TYR:CD2	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:245:GLY:O	1:H:323:SER:N	2.24	0.70
1:H:72:GLU:CB	1:H:183:ARG:NH1	1.97	0.70
1:I:72:GLU:HB3	1:I:183:ARG:HH11	0.64	0.70
1:E:205:GLU:CG	1:G:287:VAL:HG11	2.20	0.69
1:G:51:ASP:CG	1:I:169:TYR:HH	1.99	0.69
1:G:60:SER:OG	1:I:288:ASP:CB	2.40	0.69
1:G:72:GLU:CB	1:G:183:ARG:NH1	1.96	0.69
1:A:246:GLN:CA	1:C:323:SER:H	2.05	0.69
1:B:60:SER:OG	1:D:288:ASP:CB	2.40	0.69
1:D:34:ILE:HG22	1:D:84:LYS:HZ1	1.55	0.69
1:D:240:TYR:HB3	1:D:248:ILE:HD12	1.74	0.69
1:G:142:LEU:CD1	1:G:152:VAL:HG21	2.01	0.69
1:H:65:LEU:HG	1:J:166:TYR:CD2	2.26	0.69
1:A:245:GLY:CA	1:C:322:PRO:C	2.63	0.69
1:D:245:GLY:CA	1:F:322:PRO:C	2.63	0.69
1:B:240:TYR:HB3	1:B:248:ILE:HD12	1.74	0.69
1:C:240:TYR:HB3	1:C:248:ILE:HD12	1.74	0.69
1:C:245:GLY:CA	1:E:324:THR:CB	2.65	0.69
1:A:142:LEU:CD1	1:A:152:VAL:HG21	2.01	0.69
1:G:47:MET:C	1:I:148:THR:HG23	2.17	0.69
1:H:34:ILE:HG22	1:H:84:LYS:HZ1	1.56	0.69
1:A:245:GLY:CA	1:C:324:THR:CB	2.65	0.69
1:C:245:GLY:O	1:E:323:SER:N	2.24	0.69
1:F:65:LEU:HG	1:H:166:TYR:CD2	2.26	0.69
1:F:245:GLY:C	1:H:324:THR:HG1	1.91	0.69
1:G:245:GLY:O	1:I:323:SER:N	2.24	0.69
1:B:72:GLU:HB3	1:B:183:ARG:HH11	0.64	0.69
1:C:246:GLN:CA	1:E:323:SER:H	2.05	0.69
1:D:60:SER:OG	1:F:288:ASP:CB	2.39	0.69
1:E:245:GLY:O	1:G:323:SER:N	2.24	0.69
1:F:240:TYR:HB3	1:F:248:ILE:HD12	1.74	0.69
1:C:60:SER:OG	1:E:288:ASP:CB	2.40	0.69
1:D:246:GLN:CA	1:F:323:SER:H	2.05	0.69
1:F:245:GLY:CA	1:H:322:PRO:C	2.63	0.69
1:G:246:GLN:HA	1:I:323:SER:N	2.04	0.69
1:H:65:LEU:HG	1:J:166:TYR:CE2	2.28	0.69
1:H:240:TYR:HB3	1:H:248:ILE:HD12	1.74	0.69
1:A:65:LEU:HG	1:C:166:TYR:CE2	2.28	0.69
1:D:65:LEU:HG	1:F:166:TYR:CE2	2.28	0.69
1:E:60:SER:OG	1:G:288:ASP:CB	2.40	0.69
1:E:205:GLU:CB	1:G:287:VAL:CG1	2.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:245:GLY:CA	1:G:324:THR:CB	2.65	0.69
1:E:245:GLY:C	1:G:324:THR:HG1	1.95	0.69
1:F:47:MET:C	1:H:148:THR:HG23	2.17	0.69
1:F:65:LEU:HG	1:H:166:TYR:CE2	2.28	0.69
1:F:72:GLU:CB	1:F:183:ARG:NH1	1.97	0.69
1:H:42:GLY:N	1:J:169:TYR:HD1	1.86	0.69
1:H:245:GLY:CA	1:J:322:PRO:C	2.63	0.69
1:H:246:GLN:CA	1:J:323:SER:H	2.05	0.69
1:C:65:LEU:CD1	1:E:166:TYR:HE2	2.05	0.69
1:D:246:GLN:HA	1:F:323:SER:N	2.04	0.69
1:F:60:SER:OG	1:H:288:ASP:CB	2.40	0.69
1:G:44:MET:HG3	1:I:149:THR:C	2.17	0.69
1:G:205:GLU:CB	1:I:287:VAL:CG1	2.71	0.69
1:A:42:GLY:N	1:C:169:TYR:HD1	1.86	0.68
1:B:246:GLN:CA	1:D:323:SER:H	2.05	0.68
1:C:65:LEU:HG	1:E:166:TYR:CE2	2.28	0.68
1:C:205:GLU:CB	1:E:287:VAL:CG1	2.71	0.68
1:F:37:ARG:HH11	1:H:169:TYR:HH	1.40	0.68
1:G:245:GLY:C	1:I:324:THR:HG1	1.94	0.68
1:H:110:LEU:HB2	1:H:159:VAL:HG21	1.45	0.68
1:J:142:LEU:CD1	1:J:152:VAL:HG21	2.01	0.68
1:B:65:LEU:HG	1:D:166:TYR:CE2	2.28	0.68
1:G:240:TYR:HB3	1:G:248:ILE:HD12	1.74	0.68
1:A:245:GLY:O	1:C:323:SER:N	2.24	0.68
1:C:245:GLY:CA	1:E:322:PRO:C	2.63	0.68
1:G:245:GLY:CA	1:I:322:PRO:C	2.63	0.68
1:A:109:PRO:N	1:A:159:VAL:HG12	2.02	0.68
1:B:109:PRO:N	1:B:159:VAL:HG12	2.02	0.68
1:E:65:LEU:HG	1:G:166:TYR:CE2	2.28	0.68
1:E:246:GLN:CA	1:G:323:SER:H	2.05	0.68
1:F:245:GLY:HA3	1:H:325:MET:N	1.88	0.68
1:I:142:LEU:CD1	1:I:152:VAL:HG21	2.01	0.68
1:I:240:TYR:HB3	1:I:248:ILE:HD12	1.74	0.68
1:J:240:TYR:HB3	1:J:248:ILE:HD12	1.74	0.68
1:A:34:ILE:HG22	1:A:84:LYS:HG3	1.76	0.68
1:A:245:GLY:HA3	1:C:325:MET:N	1.88	0.68
1:C:34:ILE:HG22	1:C:84:LYS:HG3	1.76	0.68
1:C:110:LEU:HB2	1:C:159:VAL:HG21	1.45	0.68
1:E:240:TYR:HB3	1:E:248:ILE:HD12	1.74	0.68
1:A:51:ASP:CG	1:C:169:TYR:OH	2.37	0.68
1:A:205:GLU:CB	1:C:287:VAL:CG1	2.71	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:245:GLY:C	1:C:324:THR:HG1	1.99	0.68
1:B:51:ASP:CG	1:D:169:TYR:OH	2.37	0.68
1:D:34:ILE:HG22	1:D:84:LYS:HG3	1.76	0.68
1:G:51:ASP:CG	1:I:169:TYR:OH	2.37	0.68
1:H:65:LEU:HD12	1:J:166:TYR:HE2	1.59	0.68
1:B:44:MET:HG2	1:D:150:GLY:O	1.94	0.68
1:C:42:GLY:N	1:E:169:TYR:HD1	1.86	0.68
1:F:142:LEU:CD1	1:F:152:VAL:HG21	2.01	0.68
1:B:44:MET:HG3	1:D:149:THR:C	2.17	0.68
1:B:51:ASP:CG	1:D:169:TYR:HH	2.00	0.68
1:F:65:LEU:HD12	1:H:166:TYR:HE2	1.59	0.68
1:G:65:LEU:HG	1:I:166:TYR:CE2	2.28	0.68
1:I:109:PRO:CB	1:I:159:VAL:CG1	2.67	0.68
1:A:240:TYR:HB3	1:A:248:ILE:HD12	1.74	0.68
1:D:51:ASP:CG	1:F:169:TYR:OH	2.37	0.68
1:E:109:PRO:CB	1:E:159:VAL:CG1	2.67	0.68
1:A:44:MET:HG2	1:C:150:GLY:O	1.94	0.68
1:B:205:GLU:CB	1:D:287:VAL:CG1	2.71	0.68
1:C:51:ASP:CG	1:E:169:TYR:OH	2.37	0.68
1:E:34:ILE:HG22	1:E:84:LYS:HG3	1.76	0.68
1:F:42:GLY:N	1:H:169:TYR:HD1	1.86	0.68
1:H:44:MET:HG2	1:J:150:GLY:O	1.94	0.68
1:H:44:MET:HB2	1:J:165:ILE:O	1.94	0.68
1:C:44:MET:HB2	1:E:165:ILE:O	1.94	0.67
1:C:203:THR:HG22	1:E:288:ASP:OD2	1.94	0.67
1:E:51:ASP:CG	1:G:169:TYR:OH	2.37	0.67
1:G:245:GLY:CA	1:I:324:THR:CB	2.65	0.67
1:B:109:PRO:CB	1:B:159:VAL:CG1	2.67	0.67
1:B:205:GLU:CG	1:D:287:VAL:HG11	2.20	0.67
1:H:245:GLY:O	1:J:323:SER:N	2.24	0.67
1:A:44:MET:HB2	1:C:165:ILE:O	1.94	0.67
1:D:44:MET:HB2	1:F:165:ILE:O	1.94	0.67
1:E:44:MET:HB2	1:G:165:ILE:O	1.94	0.67
1:H:60:SER:O	1:J:289:ILE:CD1	2.24	0.67
1:D:44:MET:HG2	1:F:150:GLY:O	1.94	0.67
1:D:205:GLU:CB	1:F:287:VAL:CG1	2.71	0.67
1:E:44:MET:HG2	1:G:150:GLY:O	1.94	0.67
1:F:44:MET:HB2	1:H:165:ILE:O	1.94	0.67
1:G:44:MET:HB2	1:I:165:ILE:O	1.94	0.67
1:F:51:ASP:CG	1:H:169:TYR:OH	2.37	0.67
1:G:246:GLN:CA	1:I:323:SER:H	2.05	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:245:GLY:HA3	1:J:325:MET:N	1.88	0.67
1:B:34:ILE:HG22	1:B:84:LYS:HG3	1.76	0.67
1:E:203:THR:HG22	1:G:288:ASP:OD2	1.94	0.67
1:F:205:GLU:CG	1:H:287:VAL:HG11	2.20	0.67
1:F:245:GLY:C	1:H:323:SER:CA	2.68	0.67
1:H:205:GLU:CG	1:J:287:VAL:HG11	2.20	0.67
1:H:245:GLY:C	1:J:323:SER:CA	2.68	0.67
1:A:245:GLY:O	1:C:324:THR:OG1	2.01	0.67
1:D:109:PRO:CA	1:D:159:VAL:HG13	2.14	0.67
1:G:203:THR:HG22	1:I:288:ASP:OD2	1.94	0.67
1:A:65:LEU:CD1	1:C:166:TYR:HE2	2.05	0.67
1:B:110:LEU:HD11	1:B:178:LEU:CA	2.23	0.67
1:F:44:MET:HG2	1:H:150:GLY:O	1.94	0.67
1:G:110:LEU:HD11	1:G:178:LEU:CA	2.23	0.67
1:H:47:MET:C	1:J:148:THR:HG23	2.17	0.67
1:D:245:GLY:C	1:F:323:SER:CA	2.68	0.67
1:E:245:GLY:CA	1:G:322:PRO:C	2.63	0.67
1:H:44:MET:HG3	1:J:150:GLY:O	1.94	0.67
1:H:51:ASP:CG	1:J:169:TYR:OH	2.37	0.67
1:H:203:THR:HG22	1:J:288:ASP:OD2	1.94	0.67
1:A:109:PRO:CB	1:A:159:VAL:CG1	2.67	0.66
1:G:44:MET:HG2	1:I:150:GLY:O	1.94	0.66
1:H:205:GLU:CB	1:J:287:VAL:CG1	2.71	0.66
1:A:74:GLY:CA	1:A:157:ASP:CB	2.65	0.66
1:F:205:GLU:CB	1:H:287:VAL:CG1	2.71	0.66
1:B:44:MET:HB2	1:D:165:ILE:O	1.94	0.66
1:E:42:GLY:N	1:G:169:TYR:HD1	1.86	0.66
1:G:34:ILE:HG22	1:G:84:LYS:HG3	1.76	0.66
1:G:74:GLY:CA	1:G:157:ASP:CB	2.65	0.66
1:A:108:ALA:C	1:A:159:VAL:HG12	2.21	0.66
1:A:203:THR:HG22	1:C:288:ASP:OD2	1.94	0.66
1:B:245:GLY:CA	1:D:322:PRO:C	2.63	0.66
1:B:245:GLY:C	1:D:323:SER:CA	2.68	0.66
1:D:203:THR:HG22	1:F:288:ASP:OD2	1.94	0.66
1:E:48:GLY:O	1:G:148:THR:CG2	2.44	0.66
1:F:203:THR:HG22	1:H:288:ASP:OD2	1.94	0.66
1:B:203:THR:HG22	1:D:288:ASP:OD2	1.94	0.66
1:C:109:PRO:N	1:C:159:VAL:HG12	2.02	0.66
1:G:48:GLY:O	1:I:148:THR:CG2	2.44	0.66
1:D:44:MET:HG3	1:F:149:THR:C	2.17	0.66
1:E:203:THR:HB	1:G:288:ASP:H	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:203:THR:HB	1:C:288:ASP:H	1.61	0.66
1:A:48:GLY:O	1:C:148:THR:CG2	2.44	0.66
1:A:64:ILE:CG2	1:C:171:LEU:HD22	1.94	0.66
1:B:44:MET:HG3	1:D:150:GLY:O	1.94	0.66
1:C:44:MET:HG2	1:E:150:GLY:O	1.94	0.66
1:E:108:ALA:C	1:E:159:VAL:HG12	2.21	0.66
1:B:245:GLY:CA	1:D:324:THR:C	2.35	0.66
1:I:108:ALA:C	1:I:159:VAL:HG12	2.21	0.66
1:F:245:GLY:CA	1:H:324:THR:CB	2.65	0.65
1:F:246:GLN:CA	1:H:322:PRO:CB	2.59	0.65
1:G:44:MET:HG3	1:I:150:GLY:O	1.94	0.65
1:D:42:GLY:N	1:F:169:TYR:HD1	1.86	0.65
1:D:47:MET:C	1:F:148:THR:HG23	2.17	0.65
1:C:48:GLY:O	1:E:148:THR:CG2	2.44	0.65
1:F:60:SER:CB	1:H:289:ILE:HG23	1.90	0.65
1:F:246:GLN:CA	1:H:323:SER:H	2.05	0.65
1:D:37:ARG:HH11	1:F:169:TYR:HH	1.44	0.65
1:G:50:LYS:CG	1:I:148:THR:CG2	2.55	0.65
1:I:34:ILE:HG23	1:I:81:ASP:OD1	1.91	0.65
1:B:50:LYS:HE3	1:D:167:GLU:OE1	1.97	0.65
1:C:50:LYS:HE3	1:E:167:GLU:OE1	1.97	0.65
1:C:246:GLN:CA	1:E:323:SER:N	2.60	0.65
1:D:50:LYS:HE3	1:F:167:GLU:OE1	1.97	0.65
1:H:48:GLY:O	1:J:148:THR:CG2	2.44	0.65
1:A:245:GLY:C	1:C:323:SER:CA	2.68	0.65
1:B:246:GLN:CA	1:D:323:SER:N	2.60	0.65
1:D:203:THR:HB	1:F:288:ASP:H	1.61	0.65
1:A:44:MET:HG3	1:C:149:THR:C	2.17	0.65
1:B:203:THR:HB	1:D:288:ASP:H	1.61	0.65
1:F:51:ASP:CG	1:H:169:TYR:HH	2.03	0.65
1:G:50:LYS:HE3	1:I:167:GLU:OE1	1.97	0.65
1:A:37:ARG:HH11	1:C:169:TYR:HH	1.44	0.65
1:A:246:GLN:CA	1:C:323:SER:N	2.60	0.65
1:C:41:GLN:C	1:E:169:TYR:CD1	2.75	0.65
1:E:50:LYS:HE3	1:G:167:GLU:OE1	1.97	0.65
1:G:41:GLN:C	1:I:169:TYR:CD1	2.75	0.65
1:G:203:THR:HB	1:I:288:ASP:H	1.61	0.65
1:H:245:GLY:O	1:J:324:THR:OG1	2.01	0.65
1:B:48:GLY:O	1:D:148:THR:CG2	2.44	0.65
1:E:44:MET:HG3	1:G:150:GLY:O	1.94	0.65
1:F:50:LYS:HE3	1:H:167:GLU:OE1	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:65:LEU:CD1	1:J:166:TYR:HE2	2.05	0.65
1:A:41:GLN:C	1:C:169:TYR:CD1	2.75	0.65
1:C:60:SER:O	1:E:289:ILE:CD1	2.24	0.65
1:D:48:GLY:O	1:F:148:THR:CG2	2.44	0.65
1:I:34:ILE:HG22	1:I:84:LYS:HG3	1.76	0.65
1:A:50:LYS:HE3	1:C:167:GLU:OE1	1.97	0.64
1:B:245:GLY:O	1:D:324:THR:OG1	2.01	0.64
1:E:246:GLN:CA	1:G:323:SER:N	2.60	0.64
1:D:205:GLU:CG	1:F:287:VAL:HG11	2.20	0.64
1:D:246:GLN:CA	1:F:323:SER:N	2.60	0.64
1:C:108:ALA:C	1:C:159:VAL:HG12	2.21	0.64
1:C:245:GLY:C	1:E:323:SER:CA	2.68	0.64
1:F:51:ASP:CB	1:H:169:TYR:OH	2.46	0.64
1:H:50:LYS:HE3	1:J:167:GLU:OE1	1.97	0.64
1:H:51:ASP:CB	1:J:169:TYR:OH	2.46	0.64
1:C:51:ASP:CB	1:E:169:TYR:OH	2.46	0.64
1:E:110:LEU:HD11	1:E:178:LEU:CA	2.23	0.64
1:G:51:ASP:CB	1:I:169:TYR:OH	2.46	0.64
1:G:108:ALA:C	1:G:159:VAL:HG12	2.21	0.64
1:G:205:GLU:CG	1:I:287:VAL:HG11	2.20	0.64
1:H:246:GLN:CA	1:J:323:SER:N	2.60	0.64
1:I:242:LEU:HD23	1:I:246:GLN:HB3	1.79	0.64
1:C:44:MET:HG3	1:E:150:GLY:O	1.94	0.64
1:D:51:ASP:CB	1:F:169:TYR:OH	2.46	0.64
1:F:203:THR:HB	1:H:288:ASP:H	1.61	0.64
1:I:34:ILE:HG22	1:I:84:LYS:HZ1	1.62	0.64
1:B:41:GLN:C	1:D:169:TYR:CD1	2.75	0.64
1:C:205:GLU:CG	1:E:287:VAL:HG11	2.20	0.64
1:J:110:LEU:HD11	1:J:178:LEU:CA	2.23	0.64
1:B:51:ASP:CB	1:D:169:TYR:OH	2.46	0.64
1:C:203:THR:HB	1:E:288:ASP:H	1.61	0.64
1:E:37:ARG:HH11	1:G:169:TYR:HH	1.45	0.64
1:F:48:GLY:O	1:H:148:THR:CG2	2.44	0.64
1:H:50:LYS:CG	1:J:148:THR:CG2	2.55	0.64
1:H:203:THR:HB	1:J:288:ASP:H	1.61	0.64
1:A:60:SER:O	1:C:289:ILE:CD1	2.24	0.64
1:E:51:ASP:CB	1:G:169:TYR:OH	2.46	0.64
1:E:245:GLY:C	1:G:323:SER:CA	2.68	0.64
1:F:227:MET:HE1	1:F:252:ASN:HD22	1.63	0.64
1:G:42:GLY:N	1:I:169:TYR:HD1	1.86	0.64
1:H:110:LEU:CA	1:H:159:VAL:HG21	2.20	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:50:LYS:CG	1:C:148:THR:CG2	2.55	0.64
1:E:41:GLN:C	1:G:169:TYR:CD1	2.75	0.64
1:F:72:GLU:CD	1:F:183:ARG:NH1	2.56	0.64
1:G:72:GLU:CD	1:G:183:ARG:NH1	2.56	0.64
1:G:242:LEU:HD23	1:G:246:GLN:HB3	1.79	0.64
1:G:246:GLN:CA	1:I:323:SER:N	2.60	0.64
1:H:245:GLY:CA	1:J:324:THR:CB	2.65	0.64
1:B:242:LEU:HD23	1:B:246:GLN:HB3	1.79	0.63
1:B:245:GLY:CA	1:D:324:THR:CB	2.65	0.63
1:G:245:GLY:C	1:I:323:SER:CA	2.68	0.63
1:G:65:LEU:HD12	1:I:166:TYR:HE2	1.59	0.63
1:B:203:THR:CB	1:D:288:ASP:OD2	2.47	0.63
1:C:72:GLU:CD	1:C:183:ARG:NH1	2.56	0.63
1:C:110:LEU:CD1	1:C:178:LEU:C	2.71	0.63
1:F:44:MET:HG3	1:H:150:GLY:O	1.94	0.63
1:J:242:LEU:HD23	1:J:246:GLN:HB3	1.79	0.63
1:E:65:LEU:HD12	1:G:166:TYR:HE2	1.59	0.63
1:F:44:MET:HG3	1:H:149:THR:C	2.17	0.63
1:H:227:MET:HE1	1:H:252:ASN:HD22	1.64	0.63
1:B:245:GLY:C	1:D:323:SER:C	2.57	0.63
1:C:44:MET:HG3	1:E:149:THR:C	2.17	0.63
1:D:227:MET:HE1	1:D:252:ASN:HD22	1.64	0.63
1:E:110:LEU:CD1	1:E:178:LEU:C	2.71	0.63
1:J:72:GLU:CD	1:J:183:ARG:NH1	2.56	0.63
1:A:51:ASP:CB	1:C:169:TYR:OH	2.46	0.63
1:D:245:GLY:CA	1:F:324:THR:CB	2.65	0.63
1:E:227:MET:HE1	1:E:252:ASN:HD22	1.63	0.63
1:F:203:THR:CB	1:H:288:ASP:OD2	2.47	0.63
1:G:227:MET:HE1	1:G:252:ASN:HD22	1.63	0.63
1:I:110:LEU:CD1	1:I:178:LEU:C	2.71	0.63
1:A:44:MET:HG3	1:C:150:GLY:O	1.94	0.63
1:A:110:LEU:CD1	1:A:178:LEU:C	2.71	0.63
1:B:110:LEU:CD1	1:B:178:LEU:C	2.71	0.63
1:D:44:MET:HG3	1:F:150:GLY:O	1.94	0.63
1:D:72:GLU:CD	1:D:183:ARG:NH1	2.56	0.63
1:D:110:LEU:CD1	1:D:178:LEU:C	2.71	0.63
1:F:110:LEU:CA	1:F:159:VAL:HG21	2.20	0.63
1:A:72:GLU:CD	1:A:183:ARG:NH1	2.56	0.63
1:C:203:THR:CB	1:E:288:ASP:OD2	2.47	0.63
1:D:41:GLN:C	1:F:169:TYR:CD1	2.75	0.63
1:E:72:GLU:CD	1:E:183:ARG:NH1	2.56	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:65:LEU:CD1	1:H:166:TYR:HE2	2.05	0.63
1:F:246:GLN:CA	1:H:323:SER:N	2.60	0.63
1:G:203:THR:CB	1:I:288:ASP:OD2	2.47	0.63
1:H:72:GLU:CD	1:H:183:ARG:NH1	2.56	0.63
1:J:110:LEU:CD1	1:J:178:LEU:C	2.71	0.63
1:B:72:GLU:CD	1:B:183:ARG:NH1	2.56	0.62
1:F:41:GLN:C	1:H:169:TYR:CD1	2.75	0.62
1:F:110:LEU:CD1	1:F:178:LEU:C	2.71	0.62
1:H:203:THR:CB	1:J:288:ASP:OD2	2.47	0.62
1:F:142:LEU:CD1	1:F:152:VAL:HG22	2.14	0.62
1:H:110:LEU:CD1	1:H:178:LEU:C	2.71	0.62
1:I:227:MET:HE1	1:I:252:ASN:HD22	1.63	0.62
1:C:65:LEU:HD12	1:E:166:TYR:HE2	1.59	0.62
1:D:60:SER:CB	1:F:289:ILE:HG23	1.90	0.62
1:G:244:ASP:O	1:I:322:PRO:CB	2.47	0.62
1:B:244:ASP:O	1:D:322:PRO:CB	2.47	0.62
1:D:203:THR:CB	1:F:288:ASP:OD2	2.47	0.62
1:E:242:LEU:HD23	1:E:246:GLN:HB3	1.79	0.62
1:F:245:GLY:C	1:H:323:SER:C	2.57	0.62
1:G:37:ARG:HH11	1:I:169:TYR:HH	1.44	0.62
1:G:110:LEU:CD1	1:G:178:LEU:C	2.71	0.62
1:I:72:GLU:CD	1:I:183:ARG:NH1	2.56	0.62
1:J:34:ILE:HG22	1:J:84:LYS:HG3	1.76	0.62
1:A:203:THR:CB	1:C:288:ASP:OD2	2.47	0.62
1:B:42:GLY:N	1:D:169:TYR:HD1	1.86	0.62
1:C:227:MET:HE1	1:C:252:ASN:HD22	1.64	0.62
1:B:227:MET:HE1	1:B:252:ASN:HD22	1.63	0.62
1:D:110:LEU:CA	1:D:159:VAL:HG21	2.21	0.62
1:D:242:LEU:HD23	1:D:246:GLN:HB3	1.79	0.62
1:E:203:THR:CB	1:G:288:ASP:OD2	2.47	0.62
1:H:245:GLY:CA	1:J:324:THR:C	2.35	0.62
1:J:227:MET:HE1	1:J:252:ASN:HD22	1.64	0.62
1:B:37:ARG:HH11	1:D:169:TYR:HH	1.43	0.62
1:B:110:LEU:CA	1:B:159:VAL:HG21	2.21	0.62
1:C:242:LEU:HD23	1:C:246:GLN:HB3	1.79	0.62
1:E:244:ASP:O	1:G:322:PRO:CB	2.47	0.62
1:F:242:LEU:HD23	1:F:246:GLN:HB3	1.79	0.62
1:A:242:LEU:HD23	1:A:246:GLN:HB3	1.79	0.62
1:A:244:ASP:O	1:C:322:PRO:CB	2.47	0.62
1:H:41:GLN:C	1:J:169:TYR:CD1	2.75	0.62
1:H:110:LEU:HD11	1:H:178:LEU:CA	2.23	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:227:MET:HE1	1:A:252:ASN:HD22	1.63	0.62
1:D:244:ASP:O	1:F:322:PRO:CB	2.47	0.62
1:H:242:LEU:HD23	1:H:246:GLN:HB3	1.79	0.62
1:D:44:MET:HB2	1:F:165:ILE:C	2.25	0.62
1:B:60:SER:CB	1:D:289:ILE:HG23	1.90	0.61
1:B:196:ARG:HA	1:C:113:LYS:NZ	2.15	0.61
1:G:44:MET:HB2	1:I:165:ILE:C	2.26	0.61
1:H:60:SER:CB	1:J:289:ILE:HG23	1.90	0.61
1:B:5:ILE:HD11	1:B:100:GLU:O	2.00	0.61
1:C:5:ILE:HD11	1:C:100:GLU:O	2.00	0.61
1:D:196:ARG:HA	1:E:113:LYS:NZ	2.15	0.61
1:F:244:ASP:O	1:H:322:PRO:CB	2.47	0.61
1:G:64:ILE:CD1	1:I:166:TYR:HB3	2.30	0.61
1:I:5:ILE:HD11	1:I:100:GLU:O	2.00	0.61
1:A:44:MET:HB2	1:C:165:ILE:C	2.26	0.61
1:F:196:ARG:HA	1:G:113:LYS:NZ	2.15	0.61
1:H:44:MET:HB2	1:J:165:ILE:C	2.26	0.61
1:A:65:LEU:HD12	1:C:166:TYR:HE2	1.59	0.61
1:B:107:GLU:HG2	1:B:134:VAL:HG12	1.83	0.61
1:B:243:PRO:HB2	1:D:291:LYS:HB3	1.82	0.61
1:C:244:ASP:O	1:E:322:PRO:CB	2.47	0.61
1:D:107:GLU:HG2	1:D:134:VAL:HG12	1.83	0.61
1:E:44:MET:HB2	1:G:165:ILE:C	2.25	0.61
1:F:44:MET:HB2	1:H:165:ILE:C	2.26	0.61
1:F:107:GLU:HG2	1:F:134:VAL:HG12	1.83	0.61
1:H:34:ILE:HG22	1:H:84:LYS:HG3	1.76	0.61
1:H:107:GLU:HG2	1:H:134:VAL:HG12	1.83	0.61
1:D:5:ILE:HD11	1:D:100:GLU:O	2.01	0.61
1:H:5:ILE:HD11	1:H:100:GLU:O	2.01	0.61
1:H:244:ASP:O	1:J:322:PRO:CB	2.47	0.61
1:J:107:GLU:HG2	1:J:134:VAL:HG12	1.83	0.61
1:B:65:LEU:HD11	1:D:166:TYR:CZ	2.35	0.61
1:C:110:LEU:HD11	1:C:178:LEU:CA	2.23	0.61
1:D:243:PRO:HB2	1:F:291:LYS:HB3	1.82	0.61
1:H:196:ARG:HA	1:I:113:LYS:NZ	2.15	0.61
1:J:74:GLY:C	1:J:158:GLY:HA3	2.26	0.61
1:A:107:GLU:HG2	1:A:134:VAL:HG12	1.83	0.61
1:B:44:MET:HB2	1:D:165:ILE:C	2.26	0.61
1:C:74:GLY:CA	1:C:158:GLY:HA3	2.31	0.61
1:C:107:GLU:HG2	1:C:134:VAL:HG12	1.83	0.61
1:D:357:ILE:HG23	1:D:369:ILE:HD13	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:330:ILE:HG22	1:F:332:PRO:HD3	1.83	0.61
1:G:5:ILE:HD11	1:G:100:GLU:O	2.00	0.61
1:G:34:ILE:HG22	1:G:84:LYS:HZ1	1.66	0.61
1:G:357:ILE:HG23	1:G:369:ILE:HD13	1.83	0.61
1:H:357:ILE:HG23	1:H:369:ILE:HD13	1.83	0.61
1:I:196:ARG:HA	1:J:113:LYS:NZ	2.15	0.61
1:A:243:PRO:HB2	1:C:291:LYS:HB3	1.82	0.61
1:C:243:PRO:HB2	1:E:291:LYS:HB3	1.82	0.61
1:D:65:LEU:CD1	1:F:166:TYR:HE2	2.05	0.61
1:D:65:LEU:HD11	1:F:166:TYR:CZ	2.35	0.61
1:E:5:ILE:HD11	1:E:100:GLU:O	2.00	0.61
1:E:74:GLY:C	1:E:158:GLY:HA3	2.26	0.61
1:G:65:LEU:HD11	1:I:166:TYR:CZ	2.35	0.61
1:G:243:PRO:HB2	1:I:291:LYS:HB3	1.82	0.61
1:H:205:GLU:HG3	1:J:287:VAL:HG11	1.83	0.61
1:H:245:GLY:C	1:J:323:SER:C	2.57	0.61
1:H:330:ILE:HG22	1:H:332:PRO:HD3	1.83	0.61
1:J:357:ILE:HG23	1:J:369:ILE:HD13	1.83	0.61
1:C:37:ARG:HH11	1:E:169:TYR:HH	1.49	0.61
1:C:65:LEU:HD11	1:E:166:TYR:CZ	2.35	0.61
1:D:205:GLU:HG3	1:F:287:VAL:HG11	1.83	0.61
1:E:65:LEU:HD11	1:G:166:TYR:CZ	2.35	0.61
1:E:243:PRO:HB2	1:G:291:LYS:HB3	1.82	0.61
1:F:205:GLU:HG3	1:H:287:VAL:HG11	1.83	0.61
1:F:243:PRO:HB2	1:H:291:LYS:HB3	1.82	0.61
1:G:109:PRO:CB	1:G:159:VAL:CG1	2.67	0.61
1:G:196:ARG:HA	1:H:113:LYS:NZ	2.15	0.61
1:H:243:PRO:HB2	1:J:291:LYS:HB3	1.82	0.61
1:I:74:GLY:C	1:I:158:GLY:HA3	2.26	0.61
1:J:74:GLY:CA	1:J:158:GLY:HA3	2.31	0.61
1:A:65:LEU:HD11	1:C:166:TYR:CZ	2.35	0.61
1:E:196:ARG:HA	1:F:113:LYS:NZ	2.15	0.61
1:F:65:LEU:HD11	1:H:166:TYR:CZ	2.35	0.61
1:F:357:ILE:HG23	1:F:369:ILE:HD13	1.83	0.61
1:G:107:GLU:HG2	1:G:134:VAL:HG12	1.83	0.61
1:I:357:ILE:HG23	1:I:369:ILE:HD13	1.83	0.61
1:A:65:LEU:CD1	1:C:166:TYR:CZ	2.84	0.60
1:A:196:ARG:HA	1:B:113:LYS:NZ	2.15	0.60
1:B:74:GLY:N	1:B:157:ASP:OD2	2.34	0.60
1:B:74:GLY:C	1:B:158:GLY:HA3	2.26	0.60
1:B:204:ALA:HB2	1:D:288:ASP:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:74:GLY:C	1:C:158:GLY:HA3	2.26	0.60
1:C:357:ILE:HG23	1:C:369:ILE:HD13	1.83	0.60
1:D:74:GLY:C	1:D:158:GLY:HA3	2.26	0.60
1:D:330:ILE:HG22	1:D:332:PRO:HD3	1.83	0.60
1:E:107:GLU:HG2	1:E:134:VAL:HG12	1.83	0.60
1:F:5:ILE:HD11	1:F:100:GLU:O	2.01	0.60
1:G:74:GLY:CA	1:G:158:GLY:HA3	2.31	0.60
1:H:65:LEU:HD11	1:J:166:TYR:CZ	2.35	0.60
1:I:107:GLU:HG2	1:I:134:VAL:HG12	1.83	0.60
1:A:246:GLN:N	1:C:322:PRO:HB2	1.95	0.60
1:A:330:ILE:HG22	1:A:332:PRO:HD3	1.83	0.60
1:B:65:LEU:HD12	1:D:166:TYR:HE2	1.59	0.60
1:B:205:GLU:HG3	1:D:287:VAL:HG11	1.82	0.60
1:B:357:ILE:HG23	1:B:369:ILE:HD13	1.83	0.60
1:C:65:LEU:CD1	1:E:166:TYR:CZ	2.83	0.60
1:C:74:GLY:N	1:C:157:ASP:OD2	2.34	0.60
1:C:196:ARG:HA	1:D:113:LYS:NZ	2.15	0.60
1:E:44:MET:HG3	1:G:149:THR:C	2.17	0.60
1:E:357:ILE:HG23	1:E:369:ILE:HD13	1.83	0.60
1:G:69:TYR:HB2	1:G:83:GLU:HB2	1.83	0.60
1:H:74:GLY:C	1:H:158:GLY:HA3	2.26	0.60
1:A:74:GLY:N	1:A:157:ASP:OD2	2.34	0.60
1:C:204:ALA:HB2	1:E:288:ASP:C	2.27	0.60
1:D:245:GLY:C	1:F:324:THR:HG1	1.97	0.60
1:E:69:TYR:HB2	1:E:83:GLU:HB2	1.83	0.60
1:F:74:GLY:CA	1:F:158:GLY:HA3	2.31	0.60
1:J:5:ILE:HD11	1:J:100:GLU:O	2.01	0.60
1:A:5:ILE:HD11	1:A:100:GLU:O	2.00	0.60
1:A:142:LEU:CD1	1:A:152:VAL:HG22	2.14	0.60
1:B:204:ALA:HB2	1:D:288:ASP:C	2.26	0.60
1:D:74:GLY:N	1:D:157:ASP:OD2	2.34	0.60
1:E:59:GLN:O	1:E:62:ARG:HB3	2.02	0.60
1:G:59:GLN:O	1:G:62:ARG:HB3	2.02	0.60
1:I:69:TYR:HB2	1:I:83:GLU:HB2	1.83	0.60
1:I:330:ILE:HG22	1:I:332:PRO:HD3	1.83	0.60
1:A:357:ILE:HG23	1:A:369:ILE:HD13	1.83	0.60
1:C:59:GLN:O	1:C:62:ARG:HB3	2.02	0.60
1:C:69:TYR:HB2	1:C:83:GLU:HB2	1.83	0.60
1:D:204:ALA:HB2	1:F:288:ASP:HB3	1.83	0.60
1:E:237:GLU:HA	1:E:250:ILE:O	2.01	0.60
1:E:246:GLN:CA	1:G:322:PRO:CA	2.80	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:74:GLY:C	1:G:158:GLY:HA3	2.26	0.60
1:A:59:GLN:O	1:A:62:ARG:HB3	2.02	0.60
1:A:69:TYR:HB2	1:A:83:GLU:HB2	1.83	0.60
1:A:201:THR:O	1:B:270:GLU:OE2	2.20	0.60
1:B:60:SER:O	1:D:289:ILE:CD1	2.24	0.60
1:C:246:GLN:CA	1:E:322:PRO:CA	2.80	0.60
1:D:204:ALA:HB2	1:F:288:ASP:C	2.26	0.60
1:E:65:LEU:CD1	1:G:166:TYR:CZ	2.84	0.60
1:G:330:ILE:HG22	1:G:332:PRO:HD3	1.83	0.60
1:H:44:MET:HG3	1:J:149:THR:C	2.17	0.60
1:J:74:GLY:N	1:J:157:ASP:OD2	2.34	0.60
1:B:65:LEU:CD1	1:D:166:TYR:CZ	2.84	0.60
1:C:44:MET:HB2	1:E:165:ILE:C	2.25	0.60
1:E:74:GLY:N	1:E:157:ASP:OD2	2.34	0.60
1:E:201:THR:O	1:F:270:GLU:OE2	2.20	0.60
1:E:204:ALA:HB2	1:G:288:ASP:C	2.27	0.60
1:F:74:GLY:C	1:F:158:GLY:HA3	2.26	0.60
1:H:204:ALA:HB2	1:J:288:ASP:HB3	1.83	0.60
1:I:59:GLN:O	1:I:62:ARG:HB3	2.02	0.60
1:J:330:ILE:HG22	1:J:332:PRO:HD3	1.83	0.60
1:C:142:LEU:CD1	1:C:152:VAL:HG22	2.14	0.60
1:E:330:ILE:HG22	1:E:332:PRO:HD3	1.83	0.60
1:G:201:THR:O	1:H:270:GLU:OE2	2.20	0.60
1:A:74:GLY:C	1:A:158:GLY:HA3	2.26	0.60
1:B:61:LYS:HA	1:D:289:ILE:HD13	1.84	0.60
1:D:65:LEU:CD1	1:F:166:TYR:CZ	2.84	0.60
1:F:110:LEU:HD11	1:F:178:LEU:CA	2.23	0.60
1:H:108:ALA:C	1:H:159:VAL:HG12	2.21	0.60
1:I:196:ARG:HA	1:J:113:LYS:HZ3	1.66	0.60
1:A:237:GLU:HA	1:A:250:ILE:O	2.01	0.60
1:C:330:ILE:HG22	1:C:332:PRO:HD3	1.83	0.60
1:D:65:LEU:HD12	1:F:166:TYR:HE2	1.59	0.60
1:F:34:ILE:HG22	1:F:84:LYS:HG3	1.76	0.60
1:F:74:GLY:N	1:F:157:ASP:OD2	2.34	0.60
1:F:204:ALA:HB2	1:H:288:ASP:C	2.27	0.60
1:F:237:GLU:HA	1:F:250:ILE:O	2.01	0.60
1:G:65:LEU:CD1	1:I:166:TYR:CZ	2.84	0.60
1:G:204:ALA:CB	1:I:288:ASP:CB	2.55	0.60
1:I:237:GLU:HA	1:I:250:ILE:O	2.02	0.60
1:J:59:GLN:O	1:J:62:ARG:HB3	2.02	0.60
1:A:205:GLU:HG3	1:C:287:VAL:HG11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:330:ILE:HG22	1:B:332:PRO:HD3	1.83	0.59
1:C:61:LYS:HA	1:E:289:ILE:HD13	1.84	0.59
1:F:69:TYR:HB2	1:F:83:GLU:HB2	1.83	0.59
1:G:60:SER:O	1:I:289:ILE:CD1	2.24	0.59
1:G:74:GLY:N	1:G:157:ASP:OD2	2.34	0.59
1:H:69:TYR:HB2	1:H:83:GLU:HB2	1.83	0.59
1:H:237:GLU:HA	1:H:250:ILE:O	2.02	0.59
1:I:73:HIS:CD2	1:I:183:ARG:NH2	2.70	0.59
1:C:109:PRO:CB	1:C:159:VAL:CG1	2.67	0.59
1:C:237:GLU:HA	1:C:250:ILE:O	2.02	0.59
1:F:109:PRO:CB	1:F:159:VAL:CG1	2.67	0.59
1:H:61:LYS:HA	1:J:289:ILE:HD13	1.84	0.59
1:H:74:GLY:N	1:H:157:ASP:OD2	2.34	0.59
1:A:74:GLY:CA	1:A:158:GLY:HA3	2.31	0.59
1:A:246:GLN:CA	1:C:322:PRO:CA	2.80	0.59
1:D:59:GLN:O	1:D:62:ARG:HB3	2.02	0.59
1:D:237:GLU:HA	1:D:250:ILE:O	2.02	0.59
1:F:65:LEU:CD1	1:H:166:TYR:CZ	2.84	0.59
1:F:245:GLY:CA	1:H:324:THR:C	2.35	0.59
1:G:246:GLN:CA	1:I:322:PRO:CA	2.80	0.59
1:H:37:ARG:HH11	1:J:169:TYR:HH	1.47	0.59
1:I:74:GLY:N	1:I:157:ASP:OD2	2.34	0.59
1:J:237:GLU:HA	1:J:250:ILE:O	2.01	0.59
1:B:59:GLN:O	1:B:62:ARG:HB3	2.02	0.59
1:C:73:HIS:CD2	1:C:183:ARG:NH2	2.70	0.59
1:D:69:TYR:HB2	1:D:83:GLU:HB2	1.83	0.59
1:E:74:GLY:CA	1:E:158:GLY:HA3	2.31	0.59
1:F:61:LYS:HA	1:H:289:ILE:HD13	1.84	0.59
1:G:61:LYS:HA	1:I:289:ILE:HD13	1.84	0.59
1:H:59:GLN:O	1:H:62:ARG:HB3	2.02	0.59
1:I:201:THR:O	1:J:270:GLU:OE2	2.20	0.59
1:J:73:HIS:CD2	1:J:183:ARG:NH2	2.70	0.59
1:A:61:LYS:HA	1:C:289:ILE:HD13	1.84	0.59
1:A:73:HIS:CD2	1:A:183:ARG:NH2	2.70	0.59
1:B:64:ILE:CD1	1:D:166:TYR:HB3	2.30	0.59
1:B:74:GLY:CA	1:B:158:GLY:HA3	2.31	0.59
1:C:205:GLU:HG3	1:E:287:VAL:HG11	1.82	0.59
1:D:246:GLN:CA	1:F:322:PRO:CA	2.80	0.59
1:G:109:PRO:CA	1:G:159:VAL:HG13	2.14	0.59
1:C:201:THR:O	1:D:270:GLU:OE2	2.20	0.59
1:D:61:LYS:HA	1:F:289:ILE:HD13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:61:LYS:HA	1:G:289:ILE:HD13	1.84	0.59
1:F:59:GLN:O	1:F:62:ARG:HB3	2.02	0.59
1:H:204:ALA:HB2	1:J:288:ASP:C	2.27	0.59
1:B:196:ARG:HA	1:C:113:LYS:HZ3	1.67	0.59
1:B:237:GLU:HA	1:B:250:ILE:O	2.01	0.59
1:E:73:HIS:CD2	1:E:183:ARG:NH2	2.70	0.59
1:G:237:GLU:HA	1:G:250:ILE:O	2.01	0.59
1:H:246:GLN:CA	1:J:322:PRO:CA	2.80	0.59
1:J:69:TYR:HB2	1:J:83:GLU:HB2	1.83	0.59
1:A:64:ILE:CD1	1:C:166:TYR:HB3	2.30	0.59
1:G:46:GLY:O	1:I:148:THR:N	2.36	0.59
1:G:73:HIS:CD2	1:G:183:ARG:NH2	2.70	0.59
1:F:246:GLN:CA	1:H:322:PRO:CA	2.80	0.59
1:G:204:ALA:HB2	1:I:288:ASP:C	2.26	0.59
1:G:204:ALA:HB2	1:I:288:ASP:HB3	1.83	0.59
1:H:65:LEU:CD1	1:J:166:TYR:CZ	2.84	0.59
1:J:34:ILE:HG23	1:J:81:ASP:OD1	1.91	0.59
1:D:64:ILE:CD1	1:F:166:TYR:HB3	2.30	0.59
1:D:73:HIS:CD2	1:D:183:ARG:NH2	2.70	0.59
1:E:204:ALA:HB2	1:G:288:ASP:HB3	1.83	0.59
1:E:205:GLU:HG3	1:G:287:VAL:HG11	1.82	0.59
1:F:204:ALA:HB2	1:H:288:ASP:HB3	1.83	0.59
1:A:74:GLY:N	1:A:158:GLY:CA	2.66	0.58
1:B:201:THR:O	1:C:270:GLU:OE2	2.20	0.58
1:E:196:ARG:HA	1:F:113:LYS:HZ3	1.67	0.58
1:F:73:HIS:CD2	1:F:183:ARG:NH2	2.70	0.58
1:F:201:THR:O	1:G:270:GLU:OE2	2.20	0.58
1:A:204:ALA:HB2	1:C:288:ASP:HB3	1.83	0.58
1:B:65:LEU:CD1	1:D:166:TYR:HE2	2.05	0.58
1:B:69:TYR:HB2	1:B:83:GLU:HB2	1.83	0.58
1:E:16:MET:HE3	1:E:30:VAL:HG12	1.86	0.58
1:E:142:LEU:CD1	1:E:152:VAL:HG22	2.14	0.58
1:B:16:MET:HE3	1:B:30:VAL:HG12	1.86	0.58
1:C:16:MET:HE3	1:C:30:VAL:HG12	1.86	0.58
1:D:201:THR:O	1:E:270:GLU:OE2	2.20	0.58
1:F:16:MET:HE3	1:F:30:VAL:HG12	1.86	0.58
1:C:64:ILE:CD1	1:E:166:TYR:HB3	2.30	0.58
1:D:16:MET:HE3	1:D:30:VAL:HG12	1.86	0.58
1:D:74:GLY:CA	1:D:158:GLY:HA3	2.31	0.58
1:G:205:GLU:HG3	1:I:287:VAL:HG11	1.83	0.58
1:H:16:MET:HE3	1:H:30:VAL:HG12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:73:HIS:CD2	1:H:183:ARG:NH2	2.70	0.58
1:H:142:LEU:CD1	1:H:152:VAL:HG22	2.14	0.58
1:I:16:MET:HE3	1:I:30:VAL:HG12	1.86	0.58
1:A:16:MET:HE3	1:A:30:VAL:HG12	1.86	0.58
1:B:246:GLN:CA	1:D:322:PRO:CA	2.80	0.58
1:E:205:GLU:CA	1:G:287:VAL:HG12	2.33	0.58
1:G:16:MET:HE3	1:G:30:VAL:HG12	1.85	0.58
1:H:74:GLY:CA	1:H:158:GLY:HA3	2.31	0.58
1:C:196:ARG:HA	1:D:113:LYS:HZ3	1.68	0.58
1:C:205:GLU:CA	1:E:287:VAL:HG12	2.33	0.58
1:C:218:TYR:O	1:C:255:PHE:HA	2.04	0.58
1:F:196:ARG:HA	1:G:113:LYS:HZ3	1.68	0.58
1:F:205:GLU:CA	1:H:287:VAL:HG12	2.33	0.58
1:F:218:TYR:O	1:F:255:PHE:HA	2.04	0.58
1:A:196:ARG:HA	1:B:113:LYS:HZ3	1.68	0.58
1:A:218:TYR:O	1:A:255:PHE:HA	2.04	0.58
1:C:74:GLY:N	1:C:158:GLY:CA	2.66	0.58
1:C:204:ALA:HB2	1:E:288:ASP:HB3	1.83	0.58
1:E:218:TYR:O	1:E:255:PHE:HA	2.04	0.58
1:H:218:TYR:O	1:H:255:PHE:HA	2.04	0.58
1:I:108:ALA:CB	1:I:159:VAL:CG1	2.79	0.58
1:I:138:ALA:CB	1:I:154:ASP:HB3	1.98	0.58
1:J:74:GLY:N	1:J:158:GLY:CA	2.66	0.58
1:D:205:GLU:CA	1:F:287:VAL:HG12	2.33	0.58
1:D:218:TYR:O	1:D:255:PHE:HA	2.04	0.58
1:E:204:ALA:CB	1:G:288:ASP:CB	2.56	0.58
1:F:64:ILE:CD1	1:H:166:TYR:HB3	2.30	0.58
1:G:65:LEU:CD1	1:I:166:TYR:HE2	2.05	0.58
1:H:201:THR:O	1:I:270:GLU:OE2	2.20	0.58
1:I:110:LEU:HD11	1:I:178:LEU:CA	2.23	0.58
1:J:218:TYR:O	1:J:255:PHE:HA	2.04	0.58
1:A:110:LEU:HD11	1:A:178:LEU:CA	2.23	0.58
1:E:74:GLY:N	1:E:158:GLY:CA	2.66	0.58
1:J:16:MET:HE3	1:J:30:VAL:HG12	1.86	0.58
1:A:204:ALA:HB2	1:C:288:ASP:C	2.27	0.57
1:B:73:HIS:CD2	1:B:183:ARG:NH2	2.70	0.57
1:B:218:TYR:O	1:B:255:PHE:HA	2.04	0.57
1:E:246:GLN:HB2	1:G:322:PRO:HB3	0.60	0.57
1:G:51:ASP:CG	1:I:169:TYR:CZ	2.82	0.57
1:H:51:ASP:CG	1:J:169:TYR:CZ	2.82	0.57
1:A:34:ILE:HG23	1:A:81:ASP:OD1	1.91	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:51:ASP:CG	1:D:169:TYR:CZ	2.82	0.57
1:D:196:ARG:HA	1:E:113:LYS:HZ3	1.68	0.57
1:G:218:TYR:O	1:G:255:PHE:HA	2.04	0.57
1:H:78:ASN:OD1	1:H:81:ASP:HB2	2.04	0.57
1:H:205:GLU:CA	1:J:287:VAL:HG12	2.33	0.57
1:I:74:GLY:CA	1:I:158:GLY:HA3	2.31	0.57
1:A:51:ASP:CG	1:C:169:TYR:CZ	2.82	0.57
1:C:244:ASP:O	1:E:322:PRO:CD	2.53	0.57
1:C:246:GLN:N	1:E:322:PRO:HB2	1.95	0.57
1:D:110:LEU:HD11	1:D:178:LEU:CA	2.23	0.57
1:E:46:GLY:O	1:G:148:THR:N	2.36	0.57
1:E:64:ILE:CD1	1:G:166:TYR:HB3	2.30	0.57
1:E:244:ASP:O	1:G:322:PRO:CD	2.53	0.57
1:F:78:ASN:OD1	1:F:81:ASP:HB2	2.05	0.57
1:G:108:ALA:CB	1:G:159:VAL:CG1	2.79	0.57
1:G:244:ASP:O	1:I:322:PRO:CD	2.53	0.57
1:H:74:GLY:N	1:H:158:GLY:CA	2.66	0.57
1:D:78:ASN:OD1	1:D:81:ASP:HB2	2.04	0.57
1:F:74:GLY:N	1:F:157:ASP:CG	2.62	0.57
1:G:74:GLY:N	1:G:158:GLY:CA	2.66	0.57
1:H:64:ILE:CD1	1:J:166:TYR:HB3	2.30	0.57
1:I:74:GLY:N	1:I:157:ASP:CG	2.62	0.57
1:A:74:GLY:N	1:A:157:ASP:CG	2.62	0.57
1:A:205:GLU:CA	1:C:287:VAL:HG12	2.33	0.57
1:B:74:GLY:N	1:B:157:ASP:CG	2.62	0.57
1:B:138:ALA:CB	1:B:154:ASP:HB3	1.98	0.57
1:B:246:GLN:HB2	1:D:322:PRO:HB3	0.60	0.57
1:C:74:GLY:N	1:C:157:ASP:CG	2.62	0.57
1:D:74:GLY:N	1:D:157:ASP:CG	2.62	0.57
1:E:138:ALA:CB	1:E:154:ASP:HB3	1.98	0.57
1:H:74:GLY:N	1:H:157:ASP:CG	2.62	0.57
1:H:244:ASP:O	1:J:322:PRO:CD	2.53	0.57
1:J:74:GLY:N	1:J:157:ASP:CG	2.62	0.57
1:J:78:ASN:OD1	1:J:81:ASP:HB2	2.05	0.57
1:B:142:LEU:CB	1:B:152:VAL:HG21	2.33	0.57
1:E:78:ASN:OD1	1:E:81:ASP:HB2	2.05	0.57
1:F:51:ASP:CG	1:H:169:TYR:CZ	2.82	0.57
1:B:205:GLU:CA	1:D:287:VAL:HG12	2.33	0.57
1:C:51:ASP:CG	1:E:169:TYR:CZ	2.82	0.57
1:D:44:MET:HG2	1:F:165:ILE:CB	2.22	0.57
1:D:108:ALA:C	1:D:159:VAL:HG12	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:44:MET:HG2	1:H:165:ILE:CB	2.22	0.57
1:F:74:GLY:N	1:F:158:GLY:CA	2.66	0.57
1:F:244:ASP:O	1:H:322:PRO:CD	2.53	0.57
1:G:244:ASP:O	1:I:322:PRO:HD2	2.05	0.57
1:A:78:ASN:OD1	1:A:81:ASP:HB2	2.05	0.57
1:A:108:ALA:CB	1:A:159:VAL:CG1	2.79	0.57
1:A:244:ASP:O	1:C:322:PRO:CD	2.53	0.57
1:B:78:ASN:OD1	1:B:81:ASP:HB2	2.05	0.57
1:B:244:ASP:O	1:D:322:PRO:HD2	2.05	0.57
1:B:245:GLY:N	1:D:325:MET:H	2.00	0.57
1:C:41:GLN:NE2	1:E:351:THR:HG22	2.20	0.57
1:D:244:ASP:O	1:F:322:PRO:HD2	2.05	0.57
1:E:74:GLY:N	1:E:157:ASP:CG	2.62	0.57
1:E:108:ALA:CB	1:E:159:VAL:CG1	2.79	0.57
1:F:41:GLN:NE2	1:H:351:THR:HG22	2.20	0.57
1:F:244:ASP:O	1:H:322:PRO:HD2	2.05	0.57
1:G:78:ASN:OD1	1:G:81:ASP:HB2	2.05	0.57
1:G:205:GLU:CA	1:I:287:VAL:HG12	2.33	0.57
1:C:108:ALA:CB	1:C:159:VAL:CG1	2.79	0.57
1:D:74:GLY:CA	1:D:158:GLY:H	1.83	0.57
1:F:245:GLY:HA2	1:H:325:MET:N	1.77	0.57
1:G:44:MET:HG2	1:I:165:ILE:CB	2.22	0.57
1:H:44:MET:HG2	1:J:165:ILE:CB	2.22	0.57
1:I:78:ASN:OD1	1:I:81:ASP:HB2	2.05	0.57
1:I:218:TYR:O	1:I:255:PHE:HA	2.04	0.57
1:B:44:MET:HG2	1:D:165:ILE:CB	2.22	0.57
1:C:78:ASN:OD1	1:C:81:ASP:HB2	2.04	0.57
1:D:51:ASP:CG	1:F:169:TYR:CZ	2.82	0.57
1:E:244:ASP:O	1:G:322:PRO:HD2	2.05	0.57
1:G:74:GLY:N	1:G:157:ASP:CG	2.62	0.57
1:H:196:ARG:HA	1:I:113:LYS:HZ3	1.70	0.57
1:H:244:ASP:O	1:J:322:PRO:HD2	2.05	0.57
1:G:142:LEU:CD1	1:G:152:VAL:HG22	2.14	0.56
1:G:196:ARG:HA	1:H:113:LYS:HZ3	1.68	0.56
1:A:142:LEU:CB	1:A:152:VAL:HG21	2.33	0.56
1:A:244:ASP:O	1:C:322:PRO:HD2	2.05	0.56
1:B:41:GLN:NE2	1:D:351:THR:HG22	2.20	0.56
1:C:110:LEU:CA	1:C:159:VAL:HG21	2.20	0.56
1:C:244:ASP:O	1:E:322:PRO:HD2	2.05	0.56
1:F:204:ALA:CB	1:H:291:LYS:HE2	2.36	0.56
1:H:34:ILE:HG23	1:H:81:ASP:OD1	1.91	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:109:PRO:CA	1:I:159:VAL:HG13	2.14	0.56
1:I:142:LEU:CD1	1:I:152:VAL:HG22	2.14	0.56
1:J:142:LEU:CD1	1:J:152:VAL:HG22	2.14	0.56
1:A:74:GLY:CA	1:A:158:GLY:H	1.83	0.56
1:B:244:ASP:O	1:D:322:PRO:CD	2.53	0.56
1:C:246:GLN:HB2	1:E:322:PRO:HB3	0.60	0.56
1:D:204:ALA:CB	1:F:291:LYS:HE2	2.36	0.56
1:E:41:GLN:NE2	1:G:351:THR:HG22	2.20	0.56
1:E:51:ASP:CG	1:G:169:TYR:CZ	2.82	0.56
1:E:110:LEU:CA	1:E:159:VAL:HG21	2.20	0.56
1:F:246:GLN:N	1:H:322:PRO:HB2	1.95	0.56
1:G:41:GLN:NE2	1:I:351:THR:HG22	2.20	0.56
1:H:41:GLN:NE2	1:J:351:THR:HG22	2.20	0.56
1:H:46:GLY:O	1:J:148:THR:N	2.36	0.56
1:G:108:ALA:CA	1:G:159:VAL:CG1	2.83	0.56
1:H:41:GLN:NE2	1:J:351:THR:CG2	2.69	0.56
1:A:41:GLN:NE2	1:C:351:THR:HG22	2.20	0.56
1:B:204:ALA:CB	1:D:291:LYS:HE2	2.36	0.56
1:C:37:ARG:NH1	1:E:169:TYR:OH	2.29	0.56
1:C:41:GLN:NE2	1:E:351:THR:CG2	2.69	0.56
1:F:109:PRO:HB2	1:F:159:VAL:HG13	1.86	0.56
1:B:108:ALA:CA	1:B:159:VAL:CG1	2.83	0.56
1:D:244:ASP:O	1:F:322:PRO:CD	2.53	0.56
1:F:41:GLN:NE2	1:H:351:THR:CG2	2.69	0.56
1:A:260:ALA:HB1	1:A:267:LEU:HG	1.88	0.56
1:C:260:ALA:HB1	1:C:267:LEU:HG	1.88	0.56
1:D:41:GLN:NE2	1:F:351:THR:CG2	2.69	0.56
1:D:73:HIS:N	1:D:75:ILE:O	2.31	0.56
1:D:109:PRO:HB2	1:D:159:VAL:HG13	1.86	0.56
1:G:246:GLN:N	1:I:322:PRO:HB2	1.95	0.56
1:H:204:ALA:CB	1:J:291:LYS:HE2	2.36	0.56
1:J:108:ALA:CB	1:J:159:VAL:CG1	2.79	0.56
1:A:110:LEU:CA	1:A:159:VAL:HG21	2.20	0.56
1:D:41:GLN:NE2	1:F:351:THR:HG22	2.20	0.56
1:E:44:MET:HG2	1:G:165:ILE:CB	2.22	0.56
1:E:260:ALA:HB1	1:E:267:LEU:HG	1.88	0.56
1:F:46:GLY:O	1:H:148:THR:N	2.36	0.56
1:H:109:PRO:HB2	1:H:159:VAL:HG13	1.86	0.56
1:A:41:GLN:NE2	1:C:351:THR:CG2	2.69	0.56
1:B:41:GLN:NE2	1:D:351:THR:CG2	2.69	0.56
1:C:34:ILE:HG23	1:C:81:ASP:OD1	1.91	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:41:GLN:NE2	1:G:351:THR:CG2	2.69	0.56
1:F:34:ILE:HG23	1:F:81:ASP:OD1	1.91	0.56
1:I:260:ALA:HB1	1:I:267:LEU:HG	1.88	0.56
1:A:108:ALA:CA	1:A:159:VAL:CG1	2.83	0.56
1:D:74:GLY:N	1:D:158:GLY:CA	2.66	0.56
1:D:109:PRO:CB	1:D:159:VAL:CG1	2.67	0.56
1:G:41:GLN:NE2	1:I:351:THR:CG2	2.69	0.56
1:G:110:LEU:CA	1:G:159:VAL:HG21	2.20	0.56
1:G:204:ALA:CB	1:I:291:LYS:HE2	2.36	0.56
1:G:260:ALA:HB1	1:G:267:LEU:HG	1.88	0.56
1:H:246:GLN:HB2	1:J:322:PRO:HB3	0.60	0.56
1:I:74:GLY:N	1:I:158:GLY:CA	2.66	0.56
1:J:260:ALA:HB1	1:J:267:LEU:HG	1.88	0.56
1:A:109:PRO:HB2	1:A:159:VAL:HG13	1.86	0.55
1:A:204:ALA:CB	1:C:291:LYS:HE2	2.36	0.55
1:D:37:ARG:NH1	1:F:169:TYR:OH	2.29	0.55
1:H:260:ALA:HB1	1:H:267:LEU:HG	1.88	0.55
1:B:246:GLN:N	1:D:322:PRO:HB2	1.95	0.55
1:B:260:ALA:HB1	1:B:267:LEU:HG	1.88	0.55
1:D:260:ALA:HB1	1:D:267:LEU:HG	1.88	0.55
1:E:65:LEU:CD1	1:G:166:TYR:HE2	2.05	0.55
1:F:246:GLN:HB2	1:H:322:PRO:HB3	0.60	0.55
1:F:260:ALA:HB1	1:F:267:LEU:HG	1.88	0.55
1:A:246:GLN:HB2	1:C:322:PRO:HB3	0.60	0.55
1:D:138:ALA:CB	1:D:154:ASP:HB3	1.98	0.55
1:E:246:GLN:CB	1:G:322:PRO:CA	2.84	0.55
1:F:246:GLN:CB	1:H:322:PRO:CA	2.84	0.55
1:J:109:PRO:HB2	1:J:159:VAL:HG13	1.86	0.55
1:C:245:GLY:CA	1:E:324:THR:C	2.35	0.55
1:E:246:GLN:N	1:G:322:PRO:HB2	1.95	0.55
1:J:112:PRO:N	1:J:177:ARG:HH22	2.05	0.55
1:B:74:GLY:N	1:B:158:GLY:CA	2.66	0.55
1:E:34:ILE:HG22	1:E:84:LYS:NZ	2.22	0.55
1:B:46:GLY:O	1:D:148:THR:N	2.36	0.55
1:B:109:PRO:HB2	1:B:159:VAL:HG13	1.86	0.55
1:C:34:ILE:HG22	1:C:84:LYS:NZ	2.22	0.55
1:G:34:ILE:HG22	1:G:84:LYS:NZ	2.22	0.55
1:A:245:GLY:C	1:C:323:SER:C	2.57	0.55
1:D:46:GLY:O	1:F:148:THR:N	2.36	0.55
1:D:108:ALA:CA	1:D:159:VAL:CG1	2.83	0.55
1:I:34:ILE:HG22	1:I:84:LYS:NZ	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:245:GLY:C	1:D:324:THR:HG1	1.96	0.55
1:C:44:MET:HG2	1:E:165:ILE:CB	2.22	0.55
1:C:46:GLY:O	1:E:148:THR:N	2.36	0.55
1:C:204:ALA:CB	1:E:291:LYS:HE2	2.36	0.55
1:G:110:LEU:HB3	1:G:179:ASP:OD1	2.07	0.55
1:G:245:GLY:O	1:I:324:THR:OG1	2.01	0.55
1:H:108:ALA:CB	1:H:159:VAL:CG1	2.79	0.55
1:H:112:PRO:N	1:H:177:ARG:HH22	2.05	0.55
1:I:110:LEU:HB3	1:I:179:ASP:OD1	2.07	0.55
1:J:73:HIS:N	1:J:75:ILE:O	2.31	0.55
1:J:109:PRO:CB	1:J:159:VAL:CG1	2.67	0.55
1:A:112:PRO:N	1:A:177:ARG:HH22	2.05	0.55
1:D:110:LEU:HB3	1:D:179:ASP:OD1	2.07	0.55
1:E:109:PRO:HB2	1:E:159:VAL:HG13	1.86	0.55
1:H:246:GLN:CB	1:J:322:PRO:CA	2.84	0.55
1:A:34:ILE:HG22	1:A:84:LYS:NZ	2.22	0.55
1:A:65:LEU:CG	1:C:166:TYR:CD2	2.90	0.55
1:B:65:LEU:CG	1:D:166:TYR:CD2	2.90	0.55
1:B:108:ALA:CB	1:B:159:VAL:CG1	2.79	0.55
1:C:112:PRO:N	1:C:177:ARG:HH22	2.05	0.55
1:D:246:GLN:N	1:F:322:PRO:HB2	1.95	0.55
1:E:34:ILE:HG23	1:E:81:ASP:OD1	1.91	0.55
1:J:110:LEU:HB3	1:J:179:ASP:OD1	2.07	0.55
1:B:110:LEU:HB3	1:B:179:ASP:OD1	2.07	0.54
1:C:109:PRO:HB2	1:C:159:VAL:HG13	1.86	0.54
1:D:65:LEU:CG	1:F:166:TYR:CD2	2.90	0.54
1:E:110:LEU:HB3	1:E:179:ASP:OD1	2.07	0.54
1:E:204:ALA:CB	1:G:291:LYS:HE2	2.36	0.54
1:F:65:LEU:CG	1:H:166:TYR:CD2	2.90	0.54
1:H:65:LEU:CG	1:J:166:TYR:CD2	2.90	0.54
1:H:110:LEU:HB3	1:H:179:ASP:OD1	2.07	0.54
1:B:109:PRO:CA	1:B:159:VAL:HG13	2.14	0.54
1:B:112:PRO:N	1:B:177:ARG:HH22	2.05	0.54
1:C:245:GLY:C	1:E:323:SER:C	2.57	0.54
1:G:109:PRO:HB2	1:G:159:VAL:HG13	1.86	0.54
1:G:246:GLN:CB	1:I:322:PRO:CA	2.84	0.54
1:G:246:GLN:HB2	1:I:322:PRO:HB3	0.60	0.54
1:H:108:ALA:HB1	1:H:159:VAL:CB	2.37	0.54
1:B:246:GLN:CB	1:D:322:PRO:CA	2.84	0.54
1:G:108:ALA:HB1	1:G:159:VAL:CB	2.37	0.54
1:I:110:LEU:CA	1:I:159:VAL:HG21	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:HIS:N	1:A:75:ILE:O	2.31	0.54
1:A:108:ALA:HB1	1:A:159:VAL:CB	2.37	0.54
1:D:34:ILE:HG23	1:D:81:ASP:OD1	1.91	0.54
1:F:108:ALA:HB1	1:F:159:VAL:CB	2.37	0.54
1:F:112:PRO:N	1:F:177:ARG:HH22	2.05	0.54
1:J:72:GLU:HG2	1:J:183:ARG:CG	2.31	0.54
1:A:246:GLN:CB	1:C:322:PRO:CA	2.84	0.54
1:C:73:HIS:N	1:C:75:ILE:O	2.31	0.54
1:F:110:LEU:HB3	1:F:179:ASP:OD1	2.07	0.54
1:H:139:VAL:HG22	1:H:163:VAL:HG11	1.90	0.54
1:I:112:PRO:N	1:I:177:ARG:HH22	2.05	0.54
1:A:44:MET:HG2	1:C:165:ILE:CB	2.22	0.54
1:A:139:VAL:HG22	1:A:163:VAL:HG11	1.90	0.54
1:C:110:LEU:HB3	1:C:179:ASP:OD1	2.07	0.54
1:D:112:PRO:N	1:D:177:ARG:HH22	2.05	0.54
1:D:139:VAL:HG22	1:D:163:VAL:HG11	1.90	0.54
1:C:65:LEU:CG	1:E:166:TYR:CD2	2.90	0.54
1:D:45:VAL:HG12	1:F:142:LEU:HD12	1.89	0.54
1:E:60:SER:CB	1:G:288:ASP:CB	2.86	0.54
1:F:37:ARG:NH1	1:H:169:TYR:HH	2.05	0.54
1:G:112:PRO:N	1:G:177:ARG:HH22	2.05	0.54
1:G:138:ALA:CB	1:G:154:ASP:HB3	1.98	0.54
1:C:60:SER:CB	1:E:288:ASP:CB	2.86	0.54
1:E:112:PRO:N	1:E:177:ARG:HH22	2.05	0.54
1:G:60:SER:CB	1:I:288:ASP:CB	2.86	0.54
1:J:139:VAL:HG22	1:J:163:VAL:HG11	1.90	0.54
1:C:139:VAL:HG22	1:C:163:VAL:HG11	1.90	0.54
1:D:246:GLN:CB	1:F:322:PRO:CA	2.84	0.54
1:F:139:VAL:HG22	1:F:163:VAL:HG11	1.90	0.54
1:H:246:GLN:N	1:J:322:PRO:HB2	1.95	0.54
1:A:60:SER:CB	1:C:288:ASP:CB	2.86	0.54
1:A:110:LEU:HB3	1:A:179:ASP:OD1	2.07	0.54
1:B:139:VAL:HG22	1:B:163:VAL:HG11	1.90	0.54
1:C:138:ALA:CB	1:C:154:ASP:HB3	1.98	0.54
1:C:203:THR:CG2	1:E:288:ASP:OD2	2.56	0.54
1:D:34:ILE:HG22	1:D:84:LYS:NZ	2.22	0.54
1:D:43:VAL:HG21	1:D:49:GLN:CA	2.32	0.54
1:J:108:ALA:HB1	1:J:159:VAL:CB	2.37	0.54
1:A:44:MET:HA	1:C:165:ILE:CD1	2.02	0.53
1:B:203:THR:CG2	1:D:288:ASP:OD2	2.56	0.53
1:E:139:VAL:HG22	1:E:163:VAL:HG11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:108:ALA:HB1	1:B:159:VAL:CB	2.37	0.53
1:C:108:ALA:HB1	1:C:159:VAL:CB	2.37	0.53
1:E:45:VAL:HG12	1:G:142:LEU:HD12	1.89	0.53
1:F:34:ILE:HG22	1:F:84:LYS:NZ	2.22	0.53
1:F:108:ALA:CB	1:F:159:VAL:CG1	2.79	0.53
1:I:108:ALA:HB1	1:I:159:VAL:CB	2.37	0.53
1:I:109:PRO:HB2	1:I:159:VAL:HG13	1.86	0.53
1:A:46:GLY:O	1:C:148:THR:N	2.36	0.53
1:B:142:LEU:CD1	1:B:152:VAL:HG22	2.14	0.53
1:H:34:ILE:HG22	1:H:84:LYS:NZ	2.22	0.53
1:H:61:LYS:CG	1:J:289:ILE:HD13	2.35	0.53
1:A:37:ARG:NH1	1:C:169:TYR:OH	2.29	0.53
1:A:203:THR:CG2	1:C:288:ASP:OD2	2.56	0.53
1:B:34:ILE:HG22	1:B:84:LYS:NZ	2.22	0.53
1:D:203:THR:CG2	1:F:288:ASP:OD2	2.56	0.53
1:F:37:ARG:NH1	1:H:169:TYR:OH	2.29	0.53
1:G:139:VAL:HG22	1:G:163:VAL:HG11	1.90	0.53
1:H:73:HIS:N	1:H:75:ILE:O	2.31	0.53
1:I:73:HIS:N	1:I:75:ILE:O	2.31	0.53
1:A:45:VAL:HG12	1:C:142:LEU:HD12	1.89	0.53
1:C:8:LEU:HD22	1:C:21:PHE:HE1	1.74	0.53
1:D:108:ALA:HB1	1:D:159:VAL:CB	2.37	0.53
1:D:246:GLN:HB2	1:F:322:PRO:HB3	0.60	0.53
1:E:108:ALA:HB1	1:E:159:VAL:CB	2.37	0.53
1:E:203:THR:CG2	1:G:288:ASP:OD2	2.56	0.53
1:F:61:LYS:CG	1:H:289:ILE:HD13	2.36	0.53
1:G:45:VAL:HG12	1:I:142:LEU:HD12	1.89	0.53
1:F:138:ALA:CB	1:F:154:ASP:HB3	1.98	0.53
1:G:34:ILE:HG23	1:G:81:ASP:OD1	1.91	0.53
1:A:61:LYS:CG	1:C:289:ILE:HD13	2.35	0.53
1:F:108:ALA:CA	1:F:159:VAL:CG1	2.83	0.53
1:J:8:LEU:HD22	1:J:21:PHE:HE1	1.74	0.53
1:J:74:GLY:CA	1:J:158:GLY:H	1.83	0.53
1:C:203:THR:HB	1:E:288:ASP:CB	2.39	0.53
1:H:203:THR:CG2	1:J:288:ASP:OD2	2.56	0.53
1:A:203:THR:HB	1:C:288:ASP:CB	2.39	0.53
1:B:43:VAL:HG21	1:B:49:GLN:CA	2.32	0.53
1:B:60:SER:CB	1:D:288:ASP:CB	2.86	0.53
1:E:73:HIS:N	1:E:75:ILE:O	2.31	0.53
1:F:73:HIS:N	1:F:75:ILE:O	2.31	0.53
1:G:43:VAL:HG21	1:G:49:GLN:CA	2.32	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:139:VAL:HG22	1:I:163:VAL:HG11	1.90	0.53
1:J:34:ILE:HG22	1:J:84:LYS:NZ	2.22	0.53
1:A:43:VAL:HG21	1:A:49:GLN:CA	2.32	0.53
1:B:45:VAL:CB	1:D:152:VAL:HG21	2.23	0.53
1:B:73:HIS:N	1:B:75:ILE:O	2.31	0.53
1:B:203:THR:HB	1:D:288:ASP:CB	2.39	0.53
1:C:110:LEU:CB	1:C:159:VAL:CG2	2.65	0.53
1:C:246:GLN:CB	1:E:322:PRO:CA	2.84	0.53
1:D:60:SER:CB	1:F:288:ASP:CB	2.86	0.53
1:D:61:LYS:CG	1:F:289:ILE:HD13	2.36	0.53
1:F:203:THR:HB	1:H:288:ASP:CB	2.39	0.53
1:H:60:SER:CB	1:J:288:ASP:CB	2.86	0.53
1:A:8:LEU:HD22	1:A:21:PHE:HE1	1.74	0.52
1:C:45:VAL:HG12	1:E:142:LEU:HD12	1.89	0.52
1:D:203:THR:HB	1:F:288:ASP:CB	2.39	0.52
1:F:60:SER:CB	1:H:288:ASP:CB	2.86	0.52
1:I:8:LEU:HD22	1:I:21:PHE:HE1	1.74	0.52
1:B:8:LEU:HD22	1:B:21:PHE:HE1	1.74	0.52
1:B:34:ILE:HG23	1:B:81:ASP:OD1	1.91	0.52
1:C:153:MET:HG2	1:C:162:THR:HG22	1.91	0.52
1:E:65:LEU:CG	1:G:166:TYR:CD2	2.90	0.52
1:E:203:THR:HB	1:G:288:ASP:CB	2.39	0.52
1:G:65:LEU:CG	1:I:166:TYR:CD2	2.90	0.52
1:G:153:MET:HG2	1:G:162:THR:HG22	1.91	0.52
1:A:145:SER:C	1:A:147:ARG:H	2.08	0.52
1:C:61:LYS:CG	1:E:289:ILE:HD13	2.35	0.52
1:E:8:LEU:HD22	1:E:21:PHE:HE1	1.74	0.52
1:H:203:THR:HB	1:J:288:ASP:CB	2.39	0.52
1:H:204:ALA:HB3	1:J:291:LYS:NZ	2.24	0.52
1:D:8:LEU:HD22	1:D:21:PHE:HE1	1.74	0.52
1:D:204:ALA:HB3	1:F:291:LYS:NZ	2.25	0.52
1:E:153:MET:HG2	1:E:162:THR:HG22	1.91	0.52
1:F:203:THR:CG2	1:H:288:ASP:OD2	2.56	0.52
1:G:72:GLU:HG2	1:G:183:ARG:CG	2.31	0.52
1:H:45:VAL:HG12	1:J:142:LEU:HD12	1.89	0.52
1:I:153:MET:HG2	1:I:162:THR:HG22	1.91	0.52
1:A:153:MET:HG2	1:A:162:THR:HG22	1.91	0.52
1:B:35:VAL:HG22	1:B:54:VAL:HG22	1.92	0.52
1:B:45:VAL:HG12	1:D:142:LEU:HD12	1.89	0.52
1:B:61:LYS:CG	1:D:289:ILE:HD13	2.36	0.52
1:H:44:MET:CG	1:J:149:THR:C	2.81	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:43:VAL:HG21	1:I:49:GLN:CA	2.32	0.52
1:J:110:LEU:CA	1:J:159:VAL:HG21	2.20	0.52
1:B:204:ALA:HB3	1:D:291:LYS:NZ	2.25	0.52
1:D:109:PRO:HB2	1:D:159:VAL:HG22	1.92	0.52
1:E:109:PRO:HB2	1:E:159:VAL:HG22	1.92	0.52
1:F:45:VAL:HG12	1:H:142:LEU:HD12	1.89	0.52
1:G:204:ALA:HB3	1:I:291:LYS:NZ	2.25	0.52
1:H:109:PRO:HB2	1:H:159:VAL:HG22	1.92	0.52
1:B:41:GLN:NE2	1:D:355:MET:CE	2.53	0.52
1:B:64:ILE:HD11	1:D:166:TYR:HB2	1.91	0.52
1:B:145:SER:C	1:B:147:ARG:H	2.08	0.52
1:G:109:PRO:HB2	1:G:159:VAL:HG22	1.92	0.52
1:G:203:THR:CG2	1:I:288:ASP:OD2	2.56	0.52
1:J:153:MET:HG2	1:J:162:THR:HG22	1.91	0.52
1:A:109:PRO:HB2	1:A:159:VAL:HG22	1.92	0.52
1:F:74:GLY:CA	1:F:157:ASP:CA	2.88	0.52
1:F:109:PRO:HB2	1:F:159:VAL:HG22	1.92	0.52
1:G:8:LEU:HD22	1:G:21:PHE:HE1	1.74	0.52
1:H:74:GLY:CA	1:H:157:ASP:CA	2.88	0.52
1:J:74:GLY:CA	1:J:157:ASP:CA	2.88	0.52
1:J:109:PRO:HB2	1:J:159:VAL:HG22	1.92	0.52
1:A:44:MET:CG	1:C:149:THR:C	2.81	0.52
1:C:109:PRO:HB2	1:C:159:VAL:HG22	1.92	0.52
1:D:35:VAL:HG22	1:D:54:VAL:HG22	1.92	0.52
1:D:74:GLY:CA	1:D:157:ASP:CA	2.88	0.52
1:H:8:LEU:HD22	1:H:21:PHE:HE1	1.74	0.52
1:I:109:PRO:HB2	1:I:159:VAL:HG22	1.92	0.52
1:D:142:LEU:CD1	1:D:152:VAL:HG22	2.14	0.52
1:E:61:LYS:CG	1:G:289:ILE:HD13	2.36	0.52
1:F:8:LEU:HD22	1:F:21:PHE:HE1	1.74	0.52
1:G:203:THR:HB	1:I:288:ASP:CB	2.39	0.52
1:A:178:LEU:HD13	1:A:274:ILE:HD12	1.91	0.51
1:A:204:ALA:HB3	1:C:291:LYS:NZ	2.24	0.51
1:B:352:PHE:HE2	1:B:356:TRP:CZ3	2.29	0.51
1:D:64:ILE:HD11	1:F:166:TYR:HB2	1.91	0.51
1:F:204:ALA:HB3	1:H:291:LYS:NZ	2.24	0.51
1:B:178:LEU:HD13	1:B:274:ILE:HD12	1.91	0.51
1:D:108:ALA:CB	1:D:159:VAL:CG1	2.79	0.51
1:G:245:GLY:C	1:I:323:SER:C	2.57	0.51
1:J:145:SER:C	1:J:147:ARG:H	2.08	0.51
1:C:43:VAL:HG21	1:C:49:GLN:CA	2.32	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:178:LEU:HD13	1:C:274:ILE:HD12	1.91	0.51
1:D:178:LEU:HD13	1:D:274:ILE:HD12	1.91	0.51
1:E:204:ALA:HB3	1:G:291:LYS:NZ	2.25	0.51
1:F:64:ILE:HD11	1:H:166:TYR:HB2	1.91	0.51
1:H:153:MET:HG2	1:H:162:THR:HG22	1.91	0.51
1:B:109:PRO:HB2	1:B:159:VAL:HG22	1.92	0.51
1:C:35:VAL:HG22	1:C:54:VAL:HG22	1.92	0.51
1:E:35:VAL:HG22	1:E:54:VAL:HG22	1.92	0.51
1:E:178:LEU:HD13	1:E:274:ILE:HD12	1.91	0.51
1:J:35:VAL:HG22	1:J:54:VAL:HG22	1.92	0.51
1:A:45:VAL:CG1	1:C:142:LEU:HD12	2.27	0.51
1:F:352:PHE:HE2	1:F:356:TRP:CZ3	2.29	0.51
1:G:35:VAL:HG22	1:G:54:VAL:HG22	1.92	0.51
1:G:61:LYS:CG	1:I:289:ILE:HD13	2.35	0.51
1:H:352:PHE:HE2	1:H:356:TRP:CZ3	2.29	0.51
1:J:178:LEU:HD13	1:J:274:ILE:HD12	1.91	0.51
1:A:35:VAL:HG22	1:A:54:VAL:HG22	1.92	0.51
1:A:135:ALA:HB1	1:A:140:LEU:HD11	1.92	0.51
1:C:135:ALA:HB1	1:C:140:LEU:HD11	1.92	0.51
1:E:44:MET:CG	1:G:149:THR:C	2.81	0.51
1:F:178:LEU:HD13	1:F:274:ILE:HD12	1.91	0.51
1:G:178:LEU:HD13	1:G:274:ILE:HD12	1.91	0.51
1:A:352:PHE:HE2	1:A:356:TRP:CZ3	2.29	0.51
1:B:153:MET:HG2	1:B:162:THR:HG22	1.91	0.51
1:C:352:PHE:HE2	1:C:356:TRP:CZ3	2.29	0.51
1:D:153:MET:HG2	1:D:162:THR:HG22	1.91	0.51
1:D:185:LEU:HD23	1:D:306:TYR:OH	2.11	0.51
1:F:44:MET:CG	1:H:149:THR:C	2.81	0.51
1:B:8:LEU:HD11	1:B:96:VAL:HG11	1.93	0.51
1:C:204:ALA:HB3	1:E:291:LYS:NZ	2.25	0.51
1:H:64:ILE:HD11	1:J:166:TYR:HB2	1.91	0.51
1:I:8:LEU:HD11	1:I:96:VAL:HG11	1.93	0.51
1:I:185:LEU:HD23	1:I:306:TYR:OH	2.11	0.51
1:A:61:LYS:CA	1:C:289:ILE:HD13	2.41	0.51
1:B:135:ALA:HB1	1:B:140:LEU:HD11	1.92	0.51
1:E:37:ARG:NH1	1:G:169:TYR:OH	2.29	0.51
1:E:61:LYS:CA	1:G:289:ILE:HD13	2.41	0.51
1:F:8:LEU:HD11	1:F:96:VAL:HG11	1.93	0.51
1:F:153:MET:HG2	1:F:162:THR:HG22	1.91	0.51
1:H:138:ALA:CB	1:H:154:ASP:HB3	1.98	0.51
1:I:178:LEU:HD13	1:I:274:ILE:CD1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:VAL:CB	1:C:152:VAL:HG21	2.23	0.51
1:D:45:VAL:CB	1:F:152:VAL:HG21	2.23	0.51
1:E:135:ALA:HB1	1:E:140:LEU:HD11	1.92	0.51
1:F:35:VAL:HG22	1:F:54:VAL:HG22	1.92	0.51
1:F:185:LEU:HD23	1:F:306:TYR:OH	2.11	0.51
1:G:178:LEU:HD13	1:G:274:ILE:CD1	2.41	0.51
1:H:35:VAL:HG22	1:H:54:VAL:HG22	1.92	0.51
1:I:178:LEU:HD13	1:I:274:ILE:HD12	1.91	0.51
1:A:178:LEU:HD13	1:A:274:ILE:CD1	2.41	0.50
1:B:178:LEU:HD13	1:B:274:ILE:CD1	2.41	0.50
1:B:252:ASN:O	1:B:256:ARG:HG3	2.11	0.50
1:D:252:ASN:O	1:D:256:ARG:HG3	2.11	0.50
1:E:8:LEU:HD11	1:E:96:VAL:HG11	1.93	0.50
1:E:352:PHE:HE2	1:E:356:TRP:CZ3	2.29	0.50
1:F:135:ALA:HB1	1:F:140:LEU:HD11	1.92	0.50
1:F:252:ASN:O	1:F:256:ARG:HG3	2.11	0.50
1:G:8:LEU:HD11	1:G:96:VAL:HG11	1.93	0.50
1:H:178:LEU:HD13	1:H:274:ILE:HD12	1.91	0.50
1:A:34:ILE:CG2	1:A:84:LYS:CG	2.65	0.50
1:C:178:LEU:HD13	1:C:274:ILE:CD1	2.41	0.50
1:D:8:LEU:HD11	1:D:96:VAL:HG11	1.93	0.50
1:E:74:GLY:CA	1:E:157:ASP:CA	2.88	0.50
1:G:73:HIS:N	1:G:75:ILE:O	2.31	0.50
1:I:35:VAL:HG22	1:I:54:VAL:HG22	1.92	0.50
1:I:252:ASN:O	1:I:256:ARG:HG3	2.12	0.50
1:J:135:ALA:HB1	1:J:140:LEU:HD11	1.92	0.50
1:B:185:LEU:HD23	1:B:306:TYR:OH	2.11	0.50
1:D:135:ALA:HB1	1:D:140:LEU:HD11	1.92	0.50
1:D:178:LEU:HD13	1:D:274:ILE:CD1	2.41	0.50
1:E:178:LEU:HD13	1:E:274:ILE:CD1	2.41	0.50
1:F:60:SER:HB3	1:H:289:ILE:HG23	1.90	0.50
1:G:74:GLY:CA	1:G:157:ASP:CA	2.88	0.50
1:G:135:ALA:HB1	1:G:140:LEU:HD11	1.92	0.50
1:J:252:ASN:O	1:J:256:ARG:HG3	2.11	0.50
1:A:138:ALA:CB	1:A:154:ASP:HB3	1.98	0.50
1:B:37:ARG:NH1	1:D:169:TYR:OH	2.30	0.50
1:C:69:TYR:HB3	1:C:83:GLU:CA	2.42	0.50
1:C:252:ASN:O	1:C:256:ARG:HG3	2.11	0.50
1:D:352:PHE:HE2	1:D:356:TRP:CZ3	2.29	0.50
1:G:252:ASN:O	1:G:256:ARG:HG3	2.12	0.50
1:G:352:PHE:HE2	1:G:356:TRP:CZ3	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:108:ALA:CA	1:H:159:VAL:CG1	2.83	0.50
1:H:204:ALA:CB	1:J:288:ASP:HB3	2.40	0.50
1:A:69:TYR:HB3	1:A:83:GLU:CA	2.42	0.50
1:A:185:LEU:HD23	1:A:306:TYR:OH	2.11	0.50
1:C:8:LEU:HD11	1:C:96:VAL:HG11	1.93	0.50
1:C:74:GLY:CA	1:C:157:ASP:CA	2.88	0.50
1:F:74:GLY:CA	1:F:158:GLY:H	1.83	0.50
1:H:178:LEU:HD13	1:H:274:ILE:CD1	2.41	0.50
1:H:185:LEU:HD23	1:H:306:TYR:OH	2.11	0.50
1:H:252:ASN:O	1:H:256:ARG:HG3	2.12	0.50
1:C:61:LYS:CA	1:E:289:ILE:HD13	2.41	0.50
1:C:245:GLY:N	1:E:325:MET:H	2.00	0.50
1:D:60:SER:HB3	1:F:289:ILE:HG23	1.90	0.50
1:D:61:LYS:CA	1:F:289:ILE:HD13	2.41	0.50
1:F:178:LEU:HD13	1:F:274:ILE:CD1	2.41	0.50
1:G:61:LYS:CA	1:I:289:ILE:HD13	2.41	0.50
1:G:185:LEU:HD23	1:G:306:TYR:OH	2.11	0.50
1:H:8:LEU:HD11	1:H:96:VAL:HG11	1.93	0.50
1:H:60:SER:HB3	1:J:289:ILE:HG23	1.90	0.50
1:H:135:ALA:HB1	1:H:140:LEU:HD11	1.92	0.50
1:I:69:TYR:HB3	1:I:83:GLU:CA	2.42	0.50
1:I:135:ALA:HB1	1:I:140:LEU:HD11	1.92	0.50
1:J:8:LEU:HD11	1:J:96:VAL:HG11	1.93	0.50
1:J:352:PHE:HE2	1:J:356:TRP:CZ3	2.29	0.50
1:A:109:PRO:CA	1:A:159:VAL:HG13	2.14	0.50
1:I:74:GLY:CA	1:I:157:ASP:CA	2.88	0.50
1:I:352:PHE:HE2	1:I:356:TRP:CZ3	2.29	0.50
1:J:185:LEU:HD23	1:J:306:TYR:OH	2.11	0.50
1:A:144:ALA:HB2	1:A:342:GLY:CA	2.42	0.50
1:A:252:ASN:O	1:A:256:ARG:HG3	2.11	0.50
1:C:34:ILE:HA	1:C:84:LYS:HG3	1.94	0.50
1:C:185:LEU:HD23	1:C:306:TYR:OH	2.11	0.50
1:E:43:VAL:HG21	1:E:49:GLN:CA	2.32	0.50
1:E:144:ALA:HB2	1:E:342:GLY:CA	2.42	0.50
1:I:72:GLU:HG2	1:I:183:ARG:CG	2.31	0.50
1:I:144:ALA:HB2	1:I:342:GLY:CA	2.42	0.50
1:C:144:ALA:HB2	1:C:342:GLY:CA	2.42	0.50
1:E:34:ILE:HA	1:E:84:LYS:HG3	1.94	0.50
1:E:69:TYR:HB3	1:E:83:GLU:CA	2.42	0.50
1:E:252:ASN:O	1:E:256:ARG:HG3	2.12	0.50
1:G:144:ALA:HB2	1:G:342:GLY:CA	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:178:LEU:HD13	1:J:274:ILE:CD1	2.41	0.50
1:A:34:ILE:HA	1:A:84:LYS:HG3	1.94	0.49
1:E:245:GLY:C	1:G:323:SER:C	2.57	0.49
1:F:204:ALA:CB	1:H:288:ASP:HB3	2.40	0.49
1:H:61:LYS:CA	1:J:289:ILE:HD13	2.41	0.49
1:J:144:ALA:HB2	1:J:342:GLY:CA	2.42	0.49
1:A:74:GLY:CA	1:A:157:ASP:CA	2.88	0.49
1:B:60:SER:HB3	1:D:289:ILE:HG23	1.90	0.49
1:D:203:THR:HG21	1:F:286:ASP:OD2	2.13	0.49
1:F:37:ARG:NH1	1:H:169:TYR:CE1	2.81	0.49
1:H:65:LEU:HD11	1:J:166:TYR:CD2	2.45	0.49
1:J:110:LEU:HD13	1:J:178:LEU:C	2.37	0.49
1:A:8:LEU:HD11	1:A:96:VAL:HG11	1.93	0.49
1:B:61:LYS:CA	1:D:289:ILE:HD13	2.41	0.49
1:B:144:ALA:HB2	1:B:342:GLY:CA	2.42	0.49
1:C:45:VAL:CB	1:E:152:VAL:HG21	2.23	0.49
1:C:352:PHE:CD1	1:C:355:MET:SD	3.06	0.49
1:E:352:PHE:CD1	1:E:355:MET:SD	3.06	0.49
1:F:65:LEU:HD11	1:H:166:TYR:CD2	2.45	0.49
1:G:41:GLN:NE2	1:I:355:MET:CE	2.53	0.49
1:H:144:ALA:HB2	1:H:342:GLY:CA	2.42	0.49
1:H:352:PHE:CD1	1:H:355:MET:SD	3.06	0.49
1:A:209:VAL:HA	1:A:212:ILE:HD12	1.95	0.49
1:A:352:PHE:CD1	1:A:355:MET:SD	3.06	0.49
1:F:61:LYS:CA	1:H:289:ILE:HD13	2.41	0.49
1:F:352:PHE:CD1	1:F:355:MET:SD	3.06	0.49
1:G:34:ILE:HA	1:G:84:LYS:HG3	1.94	0.49
1:I:110:LEU:HD13	1:I:178:LEU:C	2.37	0.49
1:J:69:TYR:HB3	1:J:83:GLU:CA	2.42	0.49
1:J:352:PHE:CD1	1:J:355:MET:SD	3.06	0.49
1:A:110:LEU:HD13	1:A:178:LEU:C	2.37	0.49
1:B:37:ARG:NH1	1:D:169:TYR:CE1	2.81	0.49
1:B:203:THR:HG21	1:D:286:ASP:OD2	2.13	0.49
1:C:110:LEU:HD13	1:C:178:LEU:C	2.37	0.49
1:D:144:ALA:HB2	1:D:342:GLY:CA	2.42	0.49
1:D:352:PHE:CD1	1:D:355:MET:SD	3.06	0.49
1:E:110:LEU:HD13	1:E:178:LEU:C	2.37	0.49
1:E:209:VAL:HA	1:E:212:ILE:HD12	1.95	0.49
1:F:144:ALA:HB2	1:F:342:GLY:CA	2.42	0.49
1:F:203:THR:HG21	1:H:286:ASP:OD2	2.13	0.49
1:G:110:LEU:HD13	1:G:178:LEU:C	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:352:PHE:CD1	1:G:355:MET:SD	3.06	0.49
1:I:209:VAL:HA	1:I:212:ILE:HD12	1.95	0.49
1:J:138:ALA:CB	1:J:154:ASP:HB3	1.98	0.49
1:J:209:VAL:HA	1:J:212:ILE:HD12	1.95	0.49
1:A:245:GLY:CA	1:C:324:THR:C	2.35	0.49
1:E:185:LEU:HD23	1:E:306:TYR:OH	2.11	0.49
1:G:204:ALA:CA	1:I:288:ASP:HA	2.00	0.49
1:H:110:LEU:HD13	1:H:178:LEU:C	2.37	0.49
1:J:34:ILE:HA	1:J:84:LYS:HG3	1.94	0.49
1:B:37:ARG:NH1	1:D:169:TYR:HH	2.08	0.49
1:D:44:MET:CG	1:F:149:THR:C	2.81	0.49
1:D:44:MET:HB3	1:D:47:MET:HE3	1.95	0.49
1:D:209:VAL:HA	1:D:212:ILE:HD12	1.95	0.49
1:F:44:MET:HB3	1:F:47:MET:HE3	1.95	0.49
1:G:37:ARG:NH1	1:I:169:TYR:HH	2.10	0.49
1:H:69:TYR:HB3	1:H:83:GLU:CA	2.42	0.49
1:I:34:ILE:HA	1:I:84:LYS:HG3	1.94	0.49
1:A:245:GLY:N	1:C:325:MET:H	2.00	0.49
1:B:44:MET:CG	1:D:149:THR:C	2.81	0.49
1:B:209:VAL:HA	1:B:212:ILE:HD12	1.95	0.49
1:B:352:PHE:CD1	1:B:355:MET:SD	3.06	0.49
1:D:37:ARG:NH1	1:F:169:TYR:HH	2.10	0.49
1:D:69:TYR:HB3	1:D:83:GLU:CA	2.42	0.49
1:F:69:TYR:HB3	1:F:83:GLU:CA	2.42	0.49
1:F:209:VAL:HA	1:F:212:ILE:HD12	1.95	0.49
1:G:37:ARG:NH1	1:I:169:TYR:CE1	2.81	0.49
1:J:44:MET:HB3	1:J:47:MET:HE3	1.95	0.49
1:B:110:LEU:HD13	1:B:178:LEU:C	2.37	0.49
1:C:45:VAL:CG1	1:E:142:LEU:HD12	2.27	0.49
1:C:202:THR:CB	1:E:290:ARG:CD	2.88	0.49
1:D:37:ARG:NH1	1:F:169:TYR:CE1	2.81	0.49
1:E:37:ARG:NH1	1:G:169:TYR:CE1	2.81	0.49
1:G:209:VAL:HA	1:G:212:ILE:HD12	1.95	0.49
1:H:109:PRO:CB	1:H:159:VAL:CG1	2.67	0.49
1:H:209:VAL:HA	1:H:212:ILE:HD12	1.95	0.49
1:I:145:SER:C	1:I:147:ARG:H	2.08	0.49
1:B:44:MET:HB3	1:B:47:MET:HE3	1.95	0.49
1:C:209:VAL:HA	1:C:212:ILE:HD12	1.95	0.49
1:D:65:LEU:HD11	1:F:166:TYR:CD2	2.45	0.49
1:D:204:ALA:CB	1:F:288:ASP:HB3	2.40	0.49
1:E:44:MET:HB3	1:E:47:MET:HE3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:45:VAL:CB	1:H:152:VAL:HG21	2.23	0.49
1:F:110:LEU:HD13	1:F:178:LEU:C	2.37	0.49
1:G:44:MET:HB3	1:G:47:MET:HE3	1.95	0.49
1:H:44:MET:HB3	1:H:47:MET:HE3	1.95	0.49
1:I:352:PHE:CD1	1:I:355:MET:SD	3.06	0.49
1:A:37:ARG:NH1	1:C:169:TYR:CE1	2.81	0.48
1:B:34:ILE:HA	1:B:84:LYS:HG3	1.94	0.48
1:B:74:GLY:CA	1:B:157:ASP:CA	2.88	0.48
1:D:34:ILE:HA	1:D:84:LYS:HG3	1.94	0.48
1:G:69:TYR:HB3	1:G:83:GLU:CA	2.42	0.48
1:G:203:THR:HG21	1:I:286:ASP:OD2	2.13	0.48
1:H:37:ARG:NH1	1:J:169:TYR:CE1	2.81	0.48
1:A:44:MET:HB3	1:A:47:MET:HE3	1.95	0.48
1:A:72:GLU:C	1:A:157:ASP:OD2	2.57	0.48
1:C:37:ARG:NH1	1:E:169:TYR:CE1	2.81	0.48
1:C:72:GLU:C	1:C:157:ASP:OD2	2.57	0.48
1:D:72:GLU:C	1:D:157:ASP:OD2	2.57	0.48
1:H:34:ILE:HA	1:H:84:LYS:HG3	1.94	0.48
1:H:37:ARG:NH1	1:J:169:TYR:OH	2.29	0.48
1:H:72:GLU:C	1:H:157:ASP:OD2	2.56	0.48
1:I:44:MET:HB3	1:I:47:MET:HE3	1.95	0.48
1:A:65:LEU:HD11	1:C:166:TYR:CD2	2.45	0.48
1:C:145:SER:C	1:C:147:ARG:H	2.08	0.48
1:E:145:SER:C	1:E:147:ARG:H	2.08	0.48
1:E:203:THR:HG21	1:G:286:ASP:OD2	2.13	0.48
1:G:37:ARG:NH1	1:I:169:TYR:OH	2.29	0.48
1:G:202:THR:CB	1:I:290:ARG:CD	2.88	0.48
1:I:72:GLU:C	1:I:157:ASP:OD2	2.57	0.48
1:J:72:GLU:C	1:J:157:ASP:OD2	2.57	0.48
1:J:357:ILE:HD11	1:J:374:CYS:SG	2.54	0.48
1:B:38:PRO:CD	1:D:169:TYR:CZ	2.55	0.48
1:E:45:VAL:CB	1:G:152:VAL:HG21	2.23	0.48
1:F:72:GLU:C	1:F:157:ASP:OD2	2.56	0.48
1:I:145:SER:HB2	1:I:146:GLY:N	2.29	0.48
1:B:203:THR:OG1	1:D:286:ASP:C	2.57	0.48
1:C:44:MET:CG	1:E:149:THR:C	2.81	0.48
1:C:110:LEU:CB	1:C:179:ASP:OD1	2.62	0.48
1:D:145:SER:HB2	1:D:146:GLY:N	2.29	0.48
1:E:72:GLU:C	1:E:157:ASP:OD2	2.57	0.48
1:F:34:ILE:HA	1:F:84:LYS:HG3	1.94	0.48
1:G:245:GLY:N	1:I:325:MET:H	2.00	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:110:LEU:CB	1:H:179:ASP:OD1	2.62	0.48
1:A:64:ILE:HD11	1:C:166:TYR:HB2	1.91	0.48
1:B:110:LEU:CB	1:B:179:ASP:OD1	2.62	0.48
1:G:110:LEU:CB	1:G:179:ASP:OD1	2.62	0.48
1:H:203:THR:HG21	1:J:286:ASP:OD2	2.13	0.48
1:A:203:THR:HG21	1:C:286:ASP:OD2	2.13	0.48
1:D:110:LEU:CB	1:D:179:ASP:OD1	2.62	0.48
1:F:41:GLN:NE2	1:H:355:MET:CE	2.53	0.48
1:H:357:ILE:HD11	1:H:374:CYS:SG	2.54	0.48
1:B:145:SER:HB2	1:B:146:GLY:N	2.29	0.48
1:H:65:LEU:HD12	1:J:166:TYR:CZ	2.48	0.48
1:C:65:LEU:HD11	1:E:166:TYR:CD2	2.45	0.48
1:E:110:LEU:CB	1:E:179:ASP:OD1	2.62	0.48
1:F:65:LEU:HD12	1:H:166:TYR:CZ	2.48	0.48
1:F:145:SER:HB2	1:F:146:GLY:N	2.29	0.48
1:G:145:SER:HB2	1:G:146:GLY:N	2.29	0.48
1:J:110:LEU:CB	1:J:179:ASP:OD1	2.62	0.48
1:A:110:LEU:CB	1:A:179:ASP:OD1	2.62	0.48
1:A:145:SER:HB2	1:A:146:GLY:N	2.29	0.48
1:E:145:SER:HB2	1:E:146:GLY:N	2.29	0.48
1:G:72:GLU:C	1:G:157:ASP:OD2	2.56	0.48
1:I:110:LEU:CB	1:I:179:ASP:OD1	2.62	0.48
1:A:357:ILE:HD11	1:A:374:CYS:SG	2.54	0.47
1:C:74:GLY:CA	1:C:158:GLY:H	1.83	0.47
1:D:65:LEU:HD12	1:F:166:TYR:CZ	2.48	0.47
1:F:357:ILE:HD11	1:F:374:CYS:SG	2.54	0.47
1:H:38:PRO:CD	1:J:169:TYR:CZ	2.55	0.47
1:I:244:ASP:OD1	1:I:246:GLN:HB2	2.14	0.47
1:B:34:ILE:CG2	1:B:84:LYS:CG	2.65	0.47
1:B:65:LEU:HD12	1:D:166:TYR:CZ	2.48	0.47
1:B:72:GLU:C	1:B:157:ASP:OD2	2.56	0.47
1:B:357:ILE:HD11	1:B:374:CYS:SG	2.54	0.47
1:C:203:THR:OG1	1:E:286:ASP:C	2.57	0.47
1:C:357:ILE:HD11	1:C:374:CYS:SG	2.54	0.47
1:D:41:GLN:C	1:F:169:TYR:HD1	2.20	0.47
1:D:110:LEU:HD13	1:D:178:LEU:C	2.37	0.47
1:I:111:ASN:C	1:I:177:ARG:NH2	2.70	0.47
1:C:64:ILE:HD11	1:E:166:TYR:HB2	1.91	0.47
1:C:145:SER:HB2	1:C:146:GLY:N	2.29	0.47
1:C:211:ASP:O	1:C:215:LYS:HD3	2.15	0.47
1:H:145:SER:HB2	1:H:146:GLY:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:145:SER:HB2	1:J:146:GLY:N	2.29	0.47
1:A:203:THR:O	1:C:288:ASP:OD1	2.23	0.47
1:B:205:GLU:CA	1:D:287:VAL:CG1	2.92	0.47
1:C:44:MET:HB3	1:C:47:MET:HE3	1.95	0.47
1:D:65:LEU:CD1	1:F:166:TYR:CD2	2.94	0.47
1:D:205:GLU:CA	1:F:287:VAL:CG1	2.92	0.47
1:D:357:ILE:HD11	1:D:374:CYS:SG	2.54	0.47
1:F:211:ASP:O	1:F:215:LYS:HD3	2.14	0.47
1:G:211:ASP:O	1:G:215:LYS:HD3	2.15	0.47
1:H:203:THR:OG1	1:J:286:ASP:C	2.57	0.47
1:I:211:ASP:O	1:I:215:LYS:HD3	2.14	0.47
1:I:357:ILE:HD11	1:I:374:CYS:SG	2.54	0.47
1:A:8:LEU:HD22	1:A:21:PHE:CE1	2.49	0.47
1:A:205:GLU:CA	1:C:287:VAL:CG1	2.92	0.47
1:B:74:GLY:CA	1:B:158:GLY:H	1.83	0.47
1:E:203:THR:O	1:G:288:ASP:OD1	2.23	0.47
1:E:203:THR:OG1	1:G:286:ASP:C	2.57	0.47
1:E:211:ASP:O	1:E:215:LYS:HD3	2.15	0.47
1:E:357:ILE:HD11	1:E:374:CYS:SG	2.54	0.47
1:F:110:LEU:CB	1:F:179:ASP:OD1	2.62	0.47
1:G:357:ILE:HD11	1:G:374:CYS:SG	2.54	0.47
1:H:211:ASP:O	1:H:215:LYS:HD3	2.14	0.47
1:J:8:LEU:HD22	1:J:21:PHE:CE1	2.50	0.47
1:J:227:MET:HE1	1:J:252:ASN:ND2	2.30	0.47
1:A:211:ASP:O	1:A:215:LYS:HD3	2.14	0.47
1:B:43:VAL:HG23	1:D:168:GLY:HA3	1.03	0.47
1:B:65:LEU:HD11	1:D:166:TYR:CD2	2.45	0.47
1:F:205:GLU:CA	1:H:287:VAL:CG1	2.92	0.47
1:J:244:ASP:OD1	1:J:246:GLN:HB2	2.14	0.47
1:A:34:ILE:HG12	1:A:81:ASP:OD1	2.15	0.47
1:A:203:THR:HB	1:C:288:ASP:HB2	1.97	0.47
1:A:204:ALA:CB	1:C:288:ASP:HB3	2.40	0.47
1:B:8:LEU:HD22	1:B:21:PHE:CE1	2.50	0.47
1:B:69:TYR:HB3	1:B:83:GLU:CA	2.42	0.47
1:B:211:ASP:O	1:B:215:LYS:HD3	2.15	0.47
1:C:8:LEU:HD22	1:C:21:PHE:CE1	2.50	0.47
1:C:48:GLY:N	1:E:148:THR:CG2	2.55	0.47
1:C:203:THR:HG21	1:E:286:ASP:OD2	2.13	0.47
1:E:45:VAL:CG1	1:G:142:LEU:HD12	2.27	0.47
1:E:48:GLY:N	1:G:148:THR:CG2	2.55	0.47
1:E:64:ILE:HD11	1:G:166:TYR:HB2	1.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:145:SER:C	1:F:147:ARG:H	2.08	0.47
1:G:45:VAL:CB	1:I:152:VAL:HG21	2.23	0.47
1:G:65:LEU:HD11	1:I:166:TYR:CD2	2.45	0.47
1:G:75:ILE:HG12	1:G:158:GLY:HA3	1.97	0.47
1:H:8:LEU:HD22	1:H:21:PHE:CE1	2.50	0.47
1:H:45:VAL:CB	1:J:152:VAL:HG21	2.23	0.47
1:H:48:GLY:N	1:J:148:THR:CG2	2.55	0.47
1:H:205:GLU:CA	1:J:287:VAL:CG1	2.92	0.47
1:H:227:MET:HE1	1:H:252:ASN:ND2	2.30	0.47
1:I:72:GLU:HG2	1:I:183:ARG:HG2	1.94	0.47
1:J:108:ALA:CA	1:J:159:VAL:CG1	2.83	0.47
1:B:204:ALA:CB	1:D:288:ASP:HB3	2.40	0.47
1:C:75:ILE:HG12	1:C:158:GLY:HA3	1.97	0.47
1:D:8:LEU:HD22	1:D:21:PHE:CE1	2.49	0.47
1:D:211:ASP:O	1:D:215:LYS:HD3	2.15	0.47
1:E:75:ILE:HG12	1:E:158:GLY:HA3	1.97	0.47
1:I:75:ILE:HG12	1:I:158:GLY:HA3	1.97	0.47
1:J:211:ASP:O	1:J:215:LYS:HD3	2.14	0.47
1:J:230:ALA:HA	1:J:236:LEU:HG	1.97	0.47
1:A:75:ILE:HG12	1:A:158:GLY:HA3	1.97	0.47
1:A:227:MET:HE1	1:A:252:ASN:ND2	2.30	0.47
1:A:230:ALA:HA	1:A:236:LEU:HG	1.97	0.47
1:B:171:LEU:HB3	1:B:173:HIS:CE1	2.50	0.47
1:B:202:THR:CB	1:D:290:ARG:CD	2.88	0.47
1:C:203:THR:HB	1:E:288:ASP:HB2	1.97	0.47
1:F:41:GLN:C	1:H:169:TYR:HD1	2.20	0.47
1:G:44:MET:CG	1:I:165:ILE:CB	2.72	0.47
1:J:34:ILE:HG12	1:J:81:ASP:OD1	2.15	0.47
1:J:75:ILE:HG12	1:J:158:GLY:HA3	1.97	0.47
1:A:60:SER:CB	1:C:288:ASP:HB2	2.45	0.47
1:A:65:LEU:CD1	1:C:166:TYR:CD2	2.94	0.47
1:A:203:THR:OG1	1:C:286:ASP:C	2.57	0.47
1:C:230:ALA:HA	1:C:236:LEU:HG	1.97	0.47
1:D:203:THR:O	1:F:288:ASP:OD1	2.23	0.47
1:E:8:LEU:HD22	1:E:21:PHE:CE1	2.49	0.47
1:F:8:LEU:HD22	1:F:21:PHE:CE1	2.49	0.47
1:F:227:MET:HE1	1:F:252:ASN:ND2	2.30	0.47
1:F:332:PRO:O	1:F:335:ARG:HB3	2.15	0.47
1:G:34:ILE:HG12	1:G:81:ASP:OD1	2.15	0.47
1:H:75:ILE:HG12	1:H:158:GLY:HA3	1.97	0.47
1:H:142:LEU:CB	1:H:152:VAL:HG21	2.33	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:203:THR:HB	1:J:288:ASP:HB2	1.97	0.47
1:B:332:PRO:O	1:B:335:ARG:HB3	2.15	0.46
1:D:171:LEU:HB3	1:D:173:HIS:CE1	2.50	0.46
1:E:34:ILE:HG12	1:E:81:ASP:OD1	2.15	0.46
1:E:65:LEU:HD11	1:G:166:TYR:CD2	2.45	0.46
1:E:203:THR:HB	1:G:288:ASP:HB2	1.97	0.46
1:F:34:ILE:HG12	1:F:81:ASP:OD1	2.15	0.46
1:F:75:ILE:HG12	1:F:158:GLY:HA3	1.97	0.46
1:F:202:THR:CB	1:H:290:ARG:CD	2.88	0.46
1:G:205:GLU:CA	1:I:287:VAL:CG1	2.92	0.46
1:H:230:ALA:HA	1:H:236:LEU:HG	1.97	0.46
1:H:245:GLY:N	1:J:325:MET:H	2.00	0.46
1:I:5:ILE:HA	1:I:5:ILE:HD13	1.57	0.46
1:J:59:GLN:HE21	1:J:59:GLN:HA	1.81	0.46
1:A:41:GLN:NE2	1:C:355:MET:CE	2.53	0.46
1:A:59:GLN:HA	1:A:59:GLN:HE21	1.81	0.46
1:A:60:SER:HB3	1:C:289:ILE:HG23	1.89	0.46
1:C:205:GLU:CA	1:E:287:VAL:CG1	2.92	0.46
1:C:227:MET:HE1	1:C:252:ASN:ND2	2.30	0.46
1:F:60:SER:CB	1:H:288:ASP:HB2	2.45	0.46
1:F:203:THR:OG1	1:H:286:ASP:C	2.57	0.46
1:G:203:THR:OG1	1:I:286:ASP:C	2.57	0.46
1:H:332:PRO:O	1:H:335:ARG:HB3	2.15	0.46
1:I:8:LEU:HD22	1:I:21:PHE:CE1	2.49	0.46
1:J:332:PRO:O	1:J:335:ARG:HB3	2.15	0.46
1:E:60:SER:CB	1:G:288:ASP:HB2	2.45	0.46
1:F:203:THR:HB	1:H:288:ASP:HB2	1.97	0.46
1:F:326:LYS:NZ	1:F:328:LYS:HD2	2.31	0.46
1:G:5:ILE:HD13	1:G:5:ILE:HA	1.57	0.46
1:G:203:THR:HB	1:I:288:ASP:HB2	1.97	0.46
1:H:326:LYS:NZ	1:H:328:LYS:HD2	2.31	0.46
1:B:34:ILE:HG12	1:B:81:ASP:OD1	2.15	0.46
1:B:246:GLN:CG	1:D:322:PRO:HA	2.45	0.46
1:C:204:ALA:CB	1:E:288:ASP:HB3	2.40	0.46
1:D:75:ILE:HG12	1:D:158:GLY:HA3	1.97	0.46
1:D:145:SER:C	1:D:147:ARG:H	2.08	0.46
1:D:332:PRO:O	1:D:335:ARG:HB3	2.15	0.46
1:E:202:THR:HB	1:G:290:ARG:CD	2.46	0.46
1:E:230:ALA:HA	1:E:236:LEU:HG	1.97	0.46
1:G:8:LEU:HD22	1:G:21:PHE:CE1	2.49	0.46
1:G:72:GLU:HG2	1:G:183:ARG:HG2	1.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:227:MET:HE1	1:B:252:ASN:ND2	2.30	0.46
1:B:230:ALA:HA	1:B:236:LEU:HG	1.97	0.46
1:C:59:GLN:HA	1:C:59:GLN:HE21	1.81	0.46
1:C:326:LYS:NZ	1:C:328:LYS:HD2	2.31	0.46
1:E:37:ARG:NH1	1:G:169:TYR:HH	2.11	0.46
1:G:326:LYS:NZ	1:G:328:LYS:HD2	2.31	0.46
1:G:352:PHE:HE2	1:G:356:TRP:CH2	2.34	0.46
1:I:34:ILE:HG12	1:I:81:ASP:OD1	2.15	0.46
1:I:171:LEU:HB3	1:I:173:HIS:CE1	2.50	0.46
1:I:230:ALA:HA	1:I:236:LEU:HG	1.97	0.46
1:A:171:LEU:HB3	1:A:173:HIS:CE1	2.50	0.46
1:D:245:GLY:N	1:F:322:PRO:HB2	2.30	0.46
1:E:41:GLN:NE2	1:G:355:MET:CE	2.53	0.46
1:E:283:MET:HE3	1:E:283:MET:HB3	1.75	0.46
1:G:64:ILE:HD11	1:I:166:TYR:HB2	1.91	0.46
1:G:171:LEU:HB3	1:G:173:HIS:CE1	2.50	0.46
1:I:352:PHE:HE2	1:I:356:TRP:CH2	2.34	0.46
1:B:75:ILE:HG12	1:B:158:GLY:HA3	1.97	0.46
1:B:245:GLY:N	1:D:322:PRO:HB2	2.30	0.46
1:C:34:ILE:HG12	1:C:81:ASP:OD1	2.15	0.46
1:C:41:GLN:NE2	1:E:355:MET:CE	2.53	0.46
1:C:171:LEU:HB3	1:C:173:HIS:CE1	2.50	0.46
1:D:230:ALA:HA	1:D:236:LEU:HG	1.97	0.46
1:E:171:LEU:HB3	1:E:173:HIS:CE1	2.50	0.46
1:E:352:PHE:HE2	1:E:356:TRP:CH2	2.34	0.46
1:F:230:ALA:HA	1:F:236:LEU:HG	1.97	0.46
1:G:48:GLY:N	1:I:148:THR:CG2	2.55	0.46
1:G:202:THR:HG22	1:I:286:ASP:C	1.87	0.46
1:G:202:THR:HB	1:I:290:ARG:CD	2.46	0.46
1:H:59:GLN:HE21	1:H:59:GLN:HA	1.81	0.46
1:J:111:ASN:C	1:J:177:ARG:NH2	2.70	0.46
1:A:48:GLY:N	1:C:148:THR:CG2	2.55	0.46
1:A:60:SER:HB3	1:C:289:ILE:CA	2.29	0.46
1:B:142:LEU:HD21	1:B:165:ILE:HB	1.91	0.46
1:D:60:SER:HB3	1:F:289:ILE:CA	2.29	0.46
1:F:245:GLY:N	1:H:322:PRO:HB2	2.30	0.46
1:F:245:GLY:N	1:H:325:MET:H	2.00	0.46
1:G:8:LEU:CD1	1:G:96:VAL:HG11	2.46	0.46
1:G:230:ALA:HA	1:G:236:LEU:HG	1.97	0.46
1:H:60:SER:CB	1:J:288:ASP:HB2	2.45	0.46
1:J:171:LEU:HB3	1:J:173:HIS:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:202:THR:CB	1:C:290:ARG:CD	2.88	0.46
1:A:321:ALA:CB	1:A:327:ILE:HD11	2.46	0.46
1:B:60:SER:CB	1:D:288:ASP:HB2	2.45	0.46
1:B:203:THR:HB	1:D:288:ASP:HB2	1.97	0.46
1:C:321:ALA:CB	1:C:327:ILE:HD11	2.46	0.46
1:D:203:THR:HB	1:F:288:ASP:HB2	1.97	0.46
1:D:227:MET:HE1	1:D:252:ASN:ND2	2.30	0.46
1:E:8:LEU:CD1	1:E:96:VAL:HG11	2.46	0.46
1:E:205:GLU:CA	1:G:287:VAL:CG1	2.92	0.46
1:E:326:LYS:NZ	1:E:328:LYS:HD2	2.31	0.46
1:E:332:PRO:O	1:E:335:ARG:HB3	2.15	0.46
1:G:44:MET:CG	1:I:149:THR:C	2.81	0.46
1:G:45:VAL:CG1	1:I:142:LEU:HD12	2.27	0.46
1:H:44:MET:HA	1:J:165:ILE:CD1	2.02	0.46
1:A:332:PRO:O	1:A:335:ARG:HB3	2.15	0.46
1:B:59:GLN:HE21	1:B:59:GLN:HA	1.81	0.46
1:C:108:ALA:CA	1:C:159:VAL:CG1	2.83	0.46
1:D:326:LYS:NZ	1:D:328:LYS:HD2	2.31	0.46
1:E:41:GLN:C	1:G:169:TYR:HD1	2.20	0.46
1:E:65:LEU:HD12	1:G:166:TYR:CZ	2.48	0.46
1:F:65:LEU:CD1	1:H:166:TYR:CD2	2.94	0.46
1:H:46:GLY:HA2	1:J:147:ARG:HD2	1.51	0.46
1:H:171:LEU:HB3	1:H:173:HIS:CE1	2.50	0.46
1:H:245:GLY:N	1:J:322:PRO:HB2	2.30	0.46
1:H:295:ALA:O	1:H:328:LYS:HB3	2.16	0.46
1:I:8:LEU:CD1	1:I:96:VAL:HG11	2.46	0.46
1:I:227:MET:HE1	1:I:252:ASN:ND2	2.30	0.46
1:I:326:LYS:NZ	1:I:328:LYS:HD2	2.31	0.46
1:J:8:LEU:CD1	1:J:96:VAL:HG11	2.46	0.46
1:B:45:VAL:O	1:D:298:VAL:HG21	2.17	0.45
1:C:8:LEU:CD1	1:C:96:VAL:HG11	2.46	0.45
1:C:154:ASP:O	1:C:160:THR:HA	2.17	0.45
1:D:321:ALA:CB	1:D:327:ILE:HD11	2.46	0.45
1:E:59:GLN:HE21	1:E:59:GLN:HA	1.81	0.45
1:E:227:MET:HE1	1:E:252:ASN:ND2	2.30	0.45
1:E:321:ALA:CB	1:E:327:ILE:HD11	2.46	0.45
1:F:295:ALA:O	1:F:328:LYS:HB3	2.16	0.45
1:F:321:ALA:CB	1:F:327:ILE:HD11	2.46	0.45
1:F:352:PHE:HE2	1:F:356:TRP:CH2	2.34	0.45
1:H:34:ILE:HG12	1:H:81:ASP:OD1	2.15	0.45
1:H:202:THR:CB	1:J:290:ARG:CD	2.88	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:321:ALA:CB	1:J:327:ILE:HD11	2.46	0.45
1:B:46:GLY:HA3	1:D:147:ARG:HD3	1.79	0.45
1:B:326:LYS:NZ	1:B:328:LYS:HD2	2.31	0.45
1:C:47:MET:SD	1:E:149:THR:OG1	2.71	0.45
1:C:60:SER:HB3	1:E:289:ILE:HG23	1.90	0.45
1:C:295:ALA:O	1:C:328:LYS:HB3	2.16	0.45
1:C:352:PHE:HE2	1:C:356:TRP:CH2	2.34	0.45
1:D:202:THR:CB	1:F:290:ARG:CD	2.88	0.45
1:E:295:ALA:O	1:E:328:LYS:HB3	2.16	0.45
1:H:43:VAL:HG21	1:H:50:LYS:H	1.81	0.45
1:J:326:LYS:NZ	1:J:328:LYS:HD2	2.31	0.45
1:A:352:PHE:HE2	1:A:356:TRP:CH2	2.34	0.45
1:B:43:VAL:HG21	1:B:50:LYS:H	1.81	0.45
1:C:43:VAL:HG21	1:C:50:LYS:H	1.81	0.45
1:C:65:LEU:HD12	1:E:166:TYR:CZ	2.48	0.45
1:C:332:PRO:O	1:C:335:ARG:HB3	2.15	0.45
1:D:45:VAL:O	1:F:298:VAL:HG21	2.17	0.45
1:D:352:PHE:HE2	1:D:356:TRP:CH2	2.34	0.45
1:E:72:GLU:HG2	1:E:183:ARG:HG2	1.94	0.45
1:F:8:LEU:CD1	1:F:96:VAL:HG11	2.46	0.45
1:F:19:ALA:HB1	1:F:94:LEU:HD11	1.99	0.45
1:F:45:VAL:O	1:H:298:VAL:HG21	2.17	0.45
1:F:171:LEU:HB3	1:F:173:HIS:CE1	2.50	0.45
1:G:41:GLN:C	1:I:169:TYR:HD1	2.20	0.45
1:G:65:LEU:HD12	1:I:166:TYR:CZ	2.48	0.45
1:G:295:ALA:O	1:G:328:LYS:HB3	2.16	0.45
1:G:321:ALA:CB	1:G:327:ILE:HD11	2.46	0.45
1:H:321:ALA:CB	1:H:327:ILE:HD11	2.46	0.45
1:I:295:ALA:O	1:I:328:LYS:HB3	2.16	0.45
1:I:332:PRO:O	1:I:335:ARG:HB3	2.15	0.45
1:J:19:ALA:HB1	1:J:94:LEU:HD11	1.99	0.45
1:A:8:LEU:CD1	1:A:96:VAL:HG11	2.46	0.45
1:A:38:PRO:CD	1:C:169:TYR:CZ	2.55	0.45
1:A:326:LYS:NZ	1:A:328:LYS:HD2	2.31	0.45
1:B:219:VAL:HG23	1:B:306:TYR:HB3	1.99	0.45
1:D:34:ILE:HG12	1:D:81:ASP:OD1	2.15	0.45
1:D:203:THR:OG1	1:F:286:ASP:C	2.57	0.45
1:E:43:VAL:HG21	1:E:50:LYS:H	1.81	0.45
1:E:111:ASN:C	1:E:177:ARG:NH2	2.70	0.45
1:E:219:VAL:HG23	1:E:306:TYR:HB3	1.99	0.45
1:F:144:ALA:HB2	1:F:342:GLY:HA2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:154:ASP:O	1:F:160:THR:HA	2.17	0.45
1:G:60:SER:HB3	1:I:289:ILE:HG23	1.90	0.45
1:G:332:PRO:O	1:G:335:ARG:HB3	2.15	0.45
1:H:19:ALA:HB1	1:H:94:LEU:HD11	1.99	0.45
1:H:45:VAL:O	1:J:298:VAL:HG21	2.17	0.45
1:H:352:PHE:HE2	1:H:356:TRP:CH2	2.34	0.45
1:I:154:ASP:O	1:I:160:THR:HA	2.17	0.45
1:I:321:ALA:CB	1:I:327:ILE:HD11	2.46	0.45
1:B:202:THR:HB	1:D:290:ARG:CD	2.46	0.45
1:D:19:ALA:HB1	1:D:94:LEU:HD11	1.99	0.45
1:D:59:GLN:HA	1:D:59:GLN:HE21	1.81	0.45
1:D:144:ALA:HB2	1:D:342:GLY:HA2	1.99	0.45
1:E:60:SER:HB3	1:G:289:ILE:HG23	1.90	0.45
1:I:59:GLN:HA	1:I:59:GLN:HE21	1.81	0.45
1:A:19:ALA:HB1	1:A:94:LEU:HD11	1.99	0.45
1:A:219:VAL:HG23	1:A:306:TYR:HB3	1.99	0.45
1:A:295:ALA:O	1:A:328:LYS:HB3	2.16	0.45
1:B:144:ALA:HB2	1:B:342:GLY:HA2	1.99	0.45
1:B:321:ALA:CB	1:B:327:ILE:HD11	2.46	0.45
1:B:352:PHE:HE2	1:B:356:TRP:CH2	2.34	0.45
1:D:219:VAL:HG23	1:D:306:TYR:HB3	1.99	0.45
1:D:246:GLN:CG	1:F:322:PRO:HA	2.44	0.45
1:E:65:LEU:CD1	1:G:166:TYR:CD2	2.94	0.45
1:F:59:GLN:HA	1:F:59:GLN:HE21	1.81	0.45
1:F:219:VAL:HG23	1:F:306:TYR:HB3	1.99	0.45
1:G:227:MET:HE1	1:G:252:ASN:ND2	2.30	0.45
1:H:154:ASP:O	1:H:160:THR:HA	2.17	0.45
1:H:202:THR:HB	1:J:290:ARG:CD	2.46	0.45
1:H:203:THR:O	1:J:288:ASP:OD1	2.23	0.45
1:A:154:ASP:O	1:A:160:THR:HA	2.17	0.45
1:B:19:ALA:HB1	1:B:94:LEU:HD11	1.99	0.45
1:C:19:ALA:HB1	1:C:94:LEU:HD11	1.99	0.45
1:C:219:VAL:HG23	1:C:306:TYR:HB3	1.99	0.45
1:D:60:SER:CB	1:F:288:ASP:HB2	2.45	0.45
1:D:111:ASN:C	1:D:177:ARG:NH2	2.70	0.45
1:E:154:ASP:O	1:E:160:THR:HA	2.17	0.45
1:G:219:VAL:HG23	1:G:306:TYR:HB3	1.99	0.45
1:H:144:ALA:HB2	1:H:342:GLY:HA2	1.99	0.45
1:H:205:GLU:CB	1:J:287:VAL:HG12	2.46	0.45
1:I:43:VAL:HG21	1:I:50:LYS:H	1.81	0.45
1:I:219:VAL:HG23	1:I:306:TYR:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:219:VAL:HG23	1:J:306:TYR:HB3	1.99	0.45
1:A:65:LEU:HD12	1:C:166:TYR:CZ	2.48	0.45
1:C:72:GLU:HG2	1:C:183:ARG:HG2	1.94	0.45
1:D:202:THR:HB	1:F:290:ARG:CD	2.46	0.45
1:F:43:VAL:HG21	1:F:50:LYS:H	1.81	0.45
1:G:60:SER:CB	1:I:288:ASP:HB2	2.45	0.45
1:G:154:ASP:O	1:G:160:THR:HA	2.17	0.45
1:H:8:LEU:CD1	1:H:96:VAL:HG11	2.46	0.45
1:H:219:VAL:HG23	1:H:306:TYR:HB3	1.99	0.45
1:J:144:ALA:HB2	1:J:342:GLY:HA2	1.99	0.45
1:J:295:ALA:O	1:J:328:LYS:HB3	2.16	0.45
1:J:352:PHE:HE2	1:J:356:TRP:CH2	2.34	0.45
1:B:5:ILE:HA	1:B:5:ILE:HD13	1.57	0.45
1:B:8:LEU:CD1	1:B:96:VAL:HG11	2.46	0.45
1:B:149:THR:HG23	1:B:166:TYR:HA	1.99	0.45
1:C:245:GLY:C	1:E:324:THR:HG1	1.97	0.45
1:D:8:LEU:CD1	1:D:96:VAL:HG11	2.46	0.45
1:E:19:ALA:HB1	1:E:94:LEU:HD11	1.99	0.45
1:F:202:THR:HB	1:H:290:ARG:CD	2.46	0.45
1:G:65:LEU:CD1	1:I:166:TYR:CD2	2.94	0.45
1:A:202:THR:HB	1:C:290:ARG:CD	2.46	0.45
1:C:34:ILE:CG2	1:C:84:LYS:CG	2.65	0.45
1:C:60:SER:CB	1:E:288:ASP:HB2	2.45	0.45
1:C:202:THR:HB	1:E:290:ARG:CD	2.46	0.45
1:D:295:ALA:O	1:D:328:LYS:HB3	2.16	0.45
1:G:45:VAL:O	1:I:298:VAL:HG21	2.17	0.45
1:G:59:GLN:HA	1:G:59:GLN:HE21	1.81	0.45
1:H:246:GLN:CG	1:J:322:PRO:HA	2.44	0.45
1:B:110:LEU:CB	1:B:159:VAL:CG2	2.65	0.44
1:D:203:THR:HB	1:F:288:ASP:OD2	2.17	0.44
1:E:204:ALA:CB	1:G:288:ASP:HB3	2.40	0.44
1:E:246:GLN:CG	1:G:322:PRO:HA	2.44	0.44
1:E:354:GLN:O	1:E:355:MET:HB2	2.18	0.44
1:G:74:GLY:CA	1:G:158:GLY:H	1.84	0.44
1:I:108:ALA:CA	1:I:159:VAL:CG1	2.83	0.44
1:J:154:ASP:O	1:J:160:THR:HA	2.17	0.44
1:A:43:VAL:HG21	1:A:50:LYS:H	1.81	0.44
1:A:43:VAL:HG23	1:C:168:GLY:HA3	1.03	0.44
1:B:203:THR:HB	1:D:288:ASP:OD2	2.17	0.44
1:C:46:GLY:HA2	1:E:147:ARG:HD2	1.51	0.44
1:C:65:LEU:CD1	1:E:166:TYR:CD2	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:75:ILE:HG12	1:C:158:GLY:CA	2.48	0.44
1:C:246:GLN:CG	1:E:322:PRO:HA	2.44	0.44
1:D:43:VAL:HG21	1:D:50:LYS:H	1.81	0.44
1:D:245:GLY:N	1:F:325:MET:H	2.00	0.44
1:F:246:GLN:CG	1:H:322:PRO:HA	2.45	0.44
1:G:19:ALA:HB1	1:G:94:LEU:HD11	1.99	0.44
1:I:354:GLN:O	1:I:355:MET:HB2	2.18	0.44
1:A:72:GLU:HG2	1:A:183:ARG:HG2	1.94	0.44
1:A:75:ILE:HG12	1:A:158:GLY:CA	2.48	0.44
1:B:75:ILE:HG12	1:B:158:GLY:CA	2.48	0.44
1:B:154:ASP:O	1:B:160:THR:HA	2.17	0.44
1:B:295:ALA:O	1:B:328:LYS:HB3	2.16	0.44
1:C:45:VAL:O	1:E:298:VAL:HG21	2.17	0.44
1:F:48:GLY:N	1:H:148:THR:CG2	2.55	0.44
1:A:46:GLY:HA2	1:C:147:ARG:HD2	1.51	0.44
1:A:354:GLN:O	1:A:355:MET:HB2	2.18	0.44
1:E:75:ILE:HG12	1:E:158:GLY:CA	2.48	0.44
1:E:202:THR:CB	1:G:290:ARG:CD	2.88	0.44
1:F:59:GLN:HE22	1:F:62:ARG:NH1	2.16	0.44
1:F:205:GLU:CB	1:H:287:VAL:HG12	2.46	0.44
1:G:75:ILE:HG12	1:G:158:GLY:CA	2.48	0.44
1:A:59:GLN:HE22	1:A:62:ARG:NH1	2.16	0.44
1:D:59:GLN:HE22	1:D:62:ARG:NH1	2.16	0.44
1:G:246:GLN:CG	1:I:322:PRO:HA	2.45	0.44
1:I:19:ALA:HB1	1:I:94:LEU:HD11	1.99	0.44
1:I:75:ILE:HG12	1:I:158:GLY:CA	2.48	0.44
1:J:75:ILE:HG12	1:J:158:GLY:CA	2.48	0.44
1:A:45:VAL:O	1:C:298:VAL:HG21	2.17	0.44
1:A:246:GLN:CG	1:C:322:PRO:HA	2.44	0.44
1:A:283:MET:HE3	1:A:283:MET:HB3	1.75	0.44
1:E:59:GLN:HE22	1:E:62:ARG:NH1	2.16	0.44
1:E:60:SER:HB3	1:G:289:ILE:CA	2.29	0.44
1:F:203:THR:O	1:H:288:ASP:OD1	2.23	0.44
1:G:43:VAL:HG21	1:G:50:LYS:H	1.82	0.44
1:J:43:VAL:HG21	1:J:50:LYS:H	1.81	0.44
1:A:37:ARG:NH1	1:C:169:TYR:HH	2.10	0.44
1:A:118:LYS:O	1:A:121:GLN:HB3	2.18	0.44
1:B:354:GLN:O	1:B:355:MET:HB2	2.18	0.44
1:C:41:GLN:C	1:E:169:TYR:HD1	2.20	0.44
1:D:354:GLN:O	1:D:355:MET:HB2	2.18	0.44
1:E:118:LYS:O	1:E:121:GLN:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:144:ALA:HB2	1:E:342:GLY:HA2	1.99	0.44
1:G:118:LYS:O	1:G:121:GLN:HB3	2.18	0.44
1:H:75:ILE:HG12	1:H:158:GLY:CA	2.48	0.44
1:B:124:PHE:O	1:B:128:ASN:HA	2.18	0.44
1:D:75:ILE:HG12	1:D:158:GLY:CA	2.48	0.44
1:D:124:PHE:O	1:D:128:ASN:HA	2.18	0.44
1:I:69:TYR:CD1	1:I:84:LYS:HG2	2.15	0.44
1:A:245:GLY:N	1:C:322:PRO:HB2	2.30	0.44
1:D:46:GLY:HA2	1:F:147:ARG:HD2	1.51	0.44
1:D:154:ASP:O	1:D:160:THR:HA	2.17	0.44
1:F:75:ILE:HG12	1:F:158:GLY:CA	2.47	0.44
1:F:109:PRO:CA	1:F:159:VAL:HG13	2.14	0.44
1:G:124:PHE:O	1:G:128:ASN:HA	2.18	0.44
1:G:144:ALA:HB2	1:G:342:GLY:HA2	1.99	0.44
1:H:34:ILE:CG2	1:H:84:LYS:CG	2.65	0.44
1:H:118:LYS:O	1:H:121:GLN:HB3	2.18	0.44
1:B:118:LYS:O	1:B:121:GLN:HB3	2.18	0.43
1:C:144:ALA:HB2	1:C:342:GLY:HA2	1.99	0.43
1:C:203:THR:HB	1:E:288:ASP:OD2	2.17	0.43
1:D:44:MET:HB3	1:F:148:THR:C	2.43	0.43
1:D:205:GLU:CB	1:F:287:VAL:HG12	2.46	0.43
1:E:45:VAL:O	1:G:298:VAL:HG21	2.17	0.43
1:F:43:VAL:HG21	1:F:49:GLN:CA	2.32	0.43
1:H:44:MET:HB3	1:J:148:THR:C	2.43	0.43
1:A:44:MET:HB3	1:C:148:THR:C	2.43	0.43
1:B:46:GLY:HA2	1:D:147:ARG:HD2	1.51	0.43
1:E:44:MET:HB3	1:G:148:THR:C	2.43	0.43
1:F:124:PHE:O	1:F:128:ASN:HA	2.18	0.43
1:H:59:GLN:HE22	1:H:62:ARG:NH1	2.16	0.43
1:G:47:MET:SD	1:I:167:GLU:HA	2.59	0.43
1:H:41:GLN:C	1:J:169:TYR:HD1	2.20	0.43
1:H:111:ASN:C	1:H:177:ARG:NH2	2.70	0.43
1:I:124:PHE:O	1:I:128:ASN:HA	2.18	0.43
1:B:44:MET:HB3	1:D:148:THR:C	2.43	0.43
1:C:354:GLN:O	1:C:355:MET:HB2	2.18	0.43
1:D:118:LYS:O	1:D:121:GLN:HB3	2.18	0.43
1:G:59:GLN:HE22	1:G:62:ARG:NH1	2.16	0.43
1:H:43:VAL:HG21	1:H:49:GLN:CA	2.32	0.43
1:H:45:VAL:O	1:H:45:VAL:HG12	2.19	0.43
1:I:144:ALA:HB2	1:I:342:GLY:HA2	1.99	0.43
1:J:45:VAL:O	1:J:45:VAL:HG12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:GLN:C	1:C:169:TYR:HD1	2.20	0.43
1:A:47:MET:SD	1:C:167:GLU:HA	2.59	0.43
1:B:41:GLN:C	1:D:169:TYR:HD1	2.20	0.43
1:B:59:GLN:HE22	1:B:62:ARG:NH1	2.16	0.43
1:B:205:GLU:CB	1:D:287:VAL:HG12	2.46	0.43
1:C:118:LYS:O	1:C:121:GLN:HB3	2.18	0.43
1:C:124:PHE:O	1:C:128:ASN:HA	2.18	0.43
1:D:5:ILE:HD13	1:D:5:ILE:HA	1.57	0.43
1:F:47:MET:SD	1:F:53:TYR:OH	2.77	0.43
1:F:60:SER:HB3	1:H:289:ILE:CA	2.29	0.43
1:F:118:LYS:O	1:F:121:GLN:HB3	2.18	0.43
1:F:203:THR:HB	1:H:288:ASP:OD2	2.17	0.43
1:G:354:GLN:O	1:G:355:MET:HB2	2.18	0.43
1:H:47:MET:SD	1:H:53:TYR:OH	2.77	0.43
1:H:354:GLN:O	1:H:355:MET:HB2	2.18	0.43
1:I:118:LYS:O	1:I:121:GLN:HB3	2.18	0.43
1:A:144:ALA:HB2	1:A:342:GLY:HA2	1.99	0.43
1:B:47:MET:SD	1:B:53:TYR:OH	2.77	0.43
1:C:47:MET:SD	1:E:167:GLU:HA	2.59	0.43
1:C:245:GLY:N	1:E:322:PRO:HB2	2.30	0.43
1:E:47:MET:SD	1:G:167:GLU:HA	2.59	0.43
1:F:47:MET:SD	1:H:167:GLU:HA	2.59	0.43
1:F:354:GLN:O	1:F:355:MET:HB2	2.18	0.43
1:I:59:GLN:HE22	1:I:62:ARG:NH1	2.16	0.43
1:I:297:THR:O	1:I:330:ILE:N	2.52	0.43
1:J:59:GLN:HE22	1:J:62:ARG:NH1	2.16	0.43
1:J:118:LYS:O	1:J:121:GLN:HB3	2.18	0.43
1:A:149:THR:HG23	1:A:166:TYR:HA	1.99	0.43
1:A:297:THR:O	1:A:330:ILE:N	2.52	0.43
1:D:47:MET:SD	1:D:53:TYR:OH	2.77	0.43
1:F:29:ALA:HB1	1:F:93:GLU:HG2	2.01	0.43
1:F:46:GLY:HA2	1:H:147:ARG:HD2	1.51	0.43
1:G:283:MET:HE3	1:G:283:MET:HB3	1.76	0.43
1:G:297:THR:O	1:G:330:ILE:N	2.52	0.43
1:H:74:GLY:CA	1:H:158:GLY:H	1.83	0.43
1:H:124:PHE:O	1:H:128:ASN:HA	2.18	0.43
1:I:45:VAL:O	1:I:45:VAL:HG12	2.19	0.43
1:J:43:VAL:HG21	1:J:49:GLN:CA	2.32	0.43
1:A:111:ASN:C	1:A:177:ARG:NH2	2.70	0.43
1:B:29:ALA:HB1	1:B:93:GLU:HG2	2.01	0.43
1:C:44:MET:HB3	1:E:148:THR:C	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:44:MET:HB3	1:I:148:THR:C	2.43	0.43
1:B:37:ARG:HD2	1:D:169:TYR:OH	2.19	0.43
1:B:47:MET:SD	1:D:167:GLU:HA	2.59	0.43
1:B:135:ALA:CB	1:B:140:LEU:HD11	2.49	0.43
1:C:59:GLN:HE22	1:C:62:ARG:NH1	2.16	0.43
1:C:60:SER:HB3	1:E:289:ILE:CA	2.29	0.43
1:D:37:ARG:HD2	1:F:169:TYR:OH	2.19	0.43
1:D:135:ALA:CB	1:D:140:LEU:HD11	2.49	0.43
1:F:37:ARG:HD2	1:H:169:TYR:OH	2.19	0.43
1:F:45:VAL:O	1:F:45:VAL:HG12	2.19	0.43
1:F:135:ALA:CB	1:F:140:LEU:HD11	2.49	0.43
1:H:37:ARG:HD2	1:J:169:TYR:OH	2.19	0.43
1:J:29:ALA:HB1	1:J:93:GLU:HG2	2.01	0.43
1:B:45:VAL:O	1:B:45:VAL:HG12	2.19	0.43
1:E:38:PRO:HD2	1:G:169:TYR:CZ	2.38	0.43
1:J:297:THR:O	1:J:330:ILE:N	2.52	0.43
1:J:354:GLN:O	1:J:355:MET:HB2	2.18	0.43
1:A:37:ARG:HD2	1:C:169:TYR:OH	2.19	0.42
1:D:45:VAL:CG1	1:F:142:LEU:HD12	2.27	0.42
1:G:37:ARG:HD2	1:I:169:TYR:OH	2.19	0.42
1:G:145:SER:C	1:G:147:ARG:H	2.08	0.42
1:H:135:ALA:CB	1:H:140:LEU:HD11	2.49	0.42
1:H:203:THR:HB	1:J:288:ASP:OD2	2.17	0.42
1:C:297:THR:O	1:C:330:ILE:N	2.52	0.42
1:D:29:ALA:HB1	1:D:93:GLU:HG2	2.01	0.42
1:D:45:VAL:O	1:D:45:VAL:HG12	2.19	0.42
1:E:297:THR:O	1:E:330:ILE:N	2.52	0.42
1:G:205:GLU:CB	1:I:287:VAL:HG12	2.46	0.42
1:H:47:MET:SD	1:J:167:GLU:HA	2.59	0.42
1:J:124:PHE:O	1:J:128:ASN:HA	2.18	0.42
1:J:135:ALA:CB	1:J:140:LEU:HD11	2.49	0.42
1:A:203:THR:HB	1:C:288:ASP:OD2	2.17	0.42
1:B:170:ALA:O	1:B:172:PRO:HD3	2.19	0.42
1:C:59:GLN:HE22	1:C:62:ARG:HH11	1.67	0.42
1:D:47:MET:SD	1:F:167:GLU:HA	2.59	0.42
1:D:193:LEU:O	1:D:198:TYR:HD2	2.03	0.42
1:E:45:VAL:O	1:E:45:VAL:HG12	2.19	0.42
1:E:245:GLY:N	1:G:322:PRO:HB2	2.30	0.42
1:F:44:MET:HB3	1:H:148:THR:C	2.43	0.42
1:G:29:ALA:HB1	1:G:93:GLU:HG2	2.01	0.42
1:G:203:THR:HB	1:I:288:ASP:OD2	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:29:ALA:HB1	1:H:93:GLU:HG2	2.01	0.42
1:J:72:GLU:HG2	1:J:183:ARG:HG2	1.94	0.42
1:C:45:VAL:O	1:C:45:VAL:HG12	2.19	0.42
1:D:41:GLN:NE2	1:F:355:MET:CE	2.53	0.42
1:D:166:TYR:CE1	1:D:167:GLU:HG2	2.55	0.42
1:D:244:ASP:O	1:F:322:PRO:O	2.38	0.42
1:E:29:ALA:HB1	1:E:93:GLU:HG2	2.01	0.42
1:E:47:MET:SD	1:E:53:TYR:OH	2.77	0.42
1:E:124:PHE:O	1:E:128:ASN:HA	2.18	0.42
1:F:166:TYR:CE1	1:F:167:GLU:HG2	2.55	0.42
1:A:47:MET:SD	1:A:53:TYR:OH	2.77	0.42
1:A:110:LEU:HD12	1:A:178:LEU:C	2.44	0.42
1:A:170:ALA:O	1:A:172:PRO:HD3	2.19	0.42
1:A:205:GLU:CB	1:C:287:VAL:HG12	2.46	0.42
1:C:29:ALA:HB1	1:C:93:GLU:HG2	2.01	0.42
1:C:110:LEU:HD12	1:C:178:LEU:C	2.44	0.42
1:C:170:ALA:O	1:C:172:PRO:HD3	2.19	0.42
1:D:48:GLY:N	1:F:148:THR:CG2	2.55	0.42
1:E:166:TYR:CE1	1:E:167:GLU:HG2	2.55	0.42
1:F:244:ASP:O	1:H:322:PRO:O	2.38	0.42
1:G:111:ASN:C	1:G:177:ARG:NH2	2.70	0.42
1:G:166:TYR:CE1	1:G:167:GLU:HG2	2.55	0.42
1:A:59:GLN:HE22	1:A:62:ARG:HH11	1.67	0.42
1:E:59:GLN:HE22	1:E:62:ARG:HH11	1.67	0.42
1:F:170:ALA:O	1:F:172:PRO:HD3	2.19	0.42
1:G:59:GLN:HE22	1:G:62:ARG:HH11	1.67	0.42
1:H:37:ARG:NH1	1:J:169:TYR:HH	2.12	0.42
1:H:244:ASP:O	1:J:322:PRO:O	2.38	0.42
1:B:110:LEU:HD12	1:B:178:LEU:C	2.44	0.42
1:D:297:THR:O	1:D:330:ILE:N	2.52	0.42
1:E:103:VAL:HG22	1:E:129:THR:HG21	2.02	0.42
1:E:170:ALA:O	1:E:172:PRO:HD3	2.19	0.42
1:E:205:GLU:CB	1:G:287:VAL:HG12	2.46	0.42
1:F:38:PRO:CD	1:H:169:TYR:CZ	2.55	0.42
1:F:111:ASN:C	1:F:177:ARG:NH2	2.70	0.42
1:G:47:MET:SD	1:G:53:TYR:OH	2.77	0.42
1:G:103:VAL:HG22	1:G:129:THR:HG21	2.02	0.42
1:G:193:LEU:O	1:G:198:TYR:HD2	2.03	0.42
1:I:47:MET:HE2	1:I:47:MET:HB3	1.84	0.42
1:I:103:VAL:HG22	1:I:129:THR:HG21	2.02	0.42
1:A:124:PHE:O	1:A:128:ASN:HA	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:166:TYR:CE1	1:A:167:GLU:HG2	2.55	0.42
1:B:244:ASP:O	1:D:322:PRO:O	2.38	0.42
1:C:47:MET:SD	1:C:53:TYR:OH	2.77	0.42
1:D:69:TYR:CD1	1:D:84:LYS:HG2	2.15	0.42
1:E:203:THR:HB	1:G:288:ASP:OD2	2.17	0.42
1:F:72:GLU:CD	1:F:183:ARG:HH11	2.23	0.42
1:G:135:ALA:CB	1:G:140:LEU:HD11	2.49	0.42
1:G:245:GLY:H	1:I:325:MET:HE2	1.31	0.42
1:I:166:TYR:CE1	1:I:167:GLU:HG2	2.55	0.42
1:I:193:LEU:O	1:I:198:TYR:HD2	2.03	0.42
1:A:29:ALA:HB1	1:A:93:GLU:HG2	2.01	0.42
1:B:297:THR:O	1:B:330:ILE:N	2.52	0.42
1:C:103:VAL:HG22	1:C:129:THR:HG21	2.02	0.42
1:C:105:LEU:HD11	1:C:123:MET:HG3	2.02	0.42
1:E:105:LEU:HD11	1:E:123:MET:HG3	2.02	0.42
1:F:297:THR:O	1:F:330:ILE:N	2.52	0.42
1:G:46:GLY:HA3	1:I:147:ARG:HD3	1.79	0.42
1:I:29:ALA:HB1	1:I:93:GLU:HG2	2.01	0.42
1:I:135:ALA:CB	1:I:140:LEU:HD11	2.49	0.42
1:J:166:TYR:CE1	1:J:167:GLU:HG2	2.55	0.42
1:J:193:LEU:O	1:J:198:TYR:HD2	2.03	0.42
1:J:287:VAL:O	1:J:291:LYS:NZ	2.53	0.42
1:A:5:ILE:HA	1:A:5:ILE:HD13	1.57	0.42
1:A:45:VAL:O	1:A:45:VAL:HG12	2.19	0.42
1:A:103:VAL:HG22	1:A:129:THR:HG21	2.02	0.42
1:A:105:LEU:HD11	1:A:123:MET:HG3	2.02	0.42
1:A:244:ASP:O	1:C:322:PRO:O	2.38	0.42
1:C:166:TYR:CE1	1:C:167:GLU:HG2	2.55	0.42
1:C:264:PRO:HD2	1:C:271:SER:O	2.20	0.42
1:E:37:ARG:HD2	1:G:169:TYR:OH	2.19	0.42
1:E:264:PRO:HD2	1:E:271:SER:O	2.20	0.42
1:G:287:VAL:O	1:G:291:LYS:NZ	2.53	0.42
1:H:72:GLU:CD	1:H:183:ARG:HH11	2.23	0.42
1:H:287:VAL:O	1:H:291:LYS:NZ	2.53	0.42
1:J:170:ALA:O	1:J:172:PRO:HD3	2.19	0.42
1:B:59:GLN:HE22	1:B:62:ARG:HH11	1.67	0.41
1:B:166:TYR:CE1	1:B:167:GLU:HG2	2.55	0.41
1:C:37:ARG:HD2	1:E:169:TYR:OH	2.19	0.41
1:D:72:GLU:CD	1:D:183:ARG:HH11	2.23	0.41
1:E:46:GLY:HA2	1:G:147:ARG:HD2	1.51	0.41
1:E:46:GLY:HA3	1:G:147:ARG:HD3	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:287:VAL:O	1:E:291:LYS:NZ	2.53	0.41
1:F:193:LEU:O	1:F:198:TYR:HD2	2.03	0.41
1:G:45:VAL:O	1:G:45:VAL:HG12	2.19	0.41
1:G:69:TYR:CD1	1:G:84:LYS:HG2	2.15	0.41
1:G:105:LEU:HD11	1:G:123:MET:HG3	2.02	0.41
1:G:170:ALA:O	1:G:172:PRO:HD3	2.19	0.41
1:H:72:GLU:HG2	1:H:183:ARG:HG2	1.94	0.41
1:H:297:THR:O	1:H:330:ILE:N	2.52	0.41
1:I:287:VAL:O	1:I:291:LYS:NZ	2.53	0.41
1:A:287:VAL:O	1:A:291:LYS:NZ	2.53	0.41
1:B:105:LEU:HD11	1:B:123:MET:HG3	2.02	0.41
1:B:203:THR:CG2	1:D:286:ASP:OD2	2.68	0.41
1:C:60:SER:HB3	1:E:289:ILE:CG2	2.46	0.41
1:C:193:LEU:O	1:C:198:TYR:HD2	2.03	0.41
1:C:244:ASP:O	1:E:322:PRO:O	2.38	0.41
1:C:287:VAL:O	1:C:291:LYS:NZ	2.53	0.41
1:D:59:GLN:HE22	1:D:62:ARG:HH11	1.67	0.41
1:D:170:ALA:O	1:D:172:PRO:HD3	2.19	0.41
1:E:135:ALA:CB	1:E:140:LEU:HD11	2.49	0.41
1:E:243:PRO:O	1:G:325:MET:CA	2.60	0.41
1:F:283:MET:HE3	1:F:283:MET:HB3	1.76	0.41
1:G:193:LEU:O	1:G:198:TYR:CD2	2.74	0.41
1:G:245:GLY:N	1:I:322:PRO:HB2	2.30	0.41
1:H:166:TYR:CE1	1:H:167:GLU:HG2	2.55	0.41
1:H:193:LEU:O	1:H:198:TYR:CD2	2.74	0.41
1:I:75:ILE:N	1:I:158:GLY:HA3	2.36	0.41
1:I:170:ALA:O	1:I:172:PRO:HD3	2.19	0.41
1:J:193:LEU:O	1:J:198:TYR:CD2	2.73	0.41
1:A:135:ALA:CB	1:A:140:LEU:HD11	2.49	0.41
1:B:60:SER:HB3	1:D:289:ILE:CA	2.29	0.41
1:C:203:THR:O	1:E:288:ASP:OD1	2.23	0.41
1:D:164:PRO:HG2	1:D:285:CYS:SG	2.61	0.41
1:D:193:LEU:O	1:D:198:TYR:CD2	2.74	0.41
1:E:43:VAL:O	1:G:142:LEU:HD23	2.21	0.41
1:E:193:LEU:O	1:E:198:TYR:CD2	2.74	0.41
1:F:59:GLN:HE22	1:F:62:ARG:HH11	1.67	0.41
1:F:287:VAL:O	1:F:291:LYS:NZ	2.53	0.41
1:G:60:SER:HB3	1:I:289:ILE:CG2	2.46	0.41
1:G:244:ASP:O	1:I:322:PRO:O	2.38	0.41
1:H:283:MET:HB3	1:H:283:MET:HE3	1.76	0.41
1:B:287:VAL:O	1:B:291:LYS:NZ	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:43:VAL:O	1:E:142:LEU:HD23	2.21	0.41
1:C:46:GLY:HA3	1:E:147:ARG:HD3	1.79	0.41
1:C:353:GLN:NE2	1:C:356:TRP:HE1	2.19	0.41
1:D:38:PRO:CD	1:F:169:TYR:CZ	2.55	0.41
1:D:287:VAL:O	1:D:291:LYS:NZ	2.53	0.41
1:D:353:GLN:NE2	1:D:356:TRP:HE1	2.19	0.41
1:E:142:LEU:CB	1:E:152:VAL:HG21	2.33	0.41
1:F:5:ILE:HD13	1:F:5:ILE:HA	1.57	0.41
1:G:203:THR:O	1:I:288:ASP:OD1	2.23	0.41
1:H:41:GLN:NE2	1:J:355:MET:CE	2.53	0.41
1:H:170:ALA:O	1:H:172:PRO:HD3	2.19	0.41
1:H:203:THR:CG2	1:J:286:ASP:OD2	2.68	0.41
1:H:353:GLN:NE2	1:H:356:TRP:HE1	2.19	0.41
1:I:59:GLN:HE22	1:I:62:ARG:HH11	1.67	0.41
1:I:105:LEU:HD11	1:I:123:MET:HG3	2.02	0.41
1:J:108:ALA:HB1	1:J:159:VAL:HB	2.02	0.41
1:J:353:GLN:NE2	1:J:356:TRP:HE1	2.19	0.41
1:A:108:ALA:HB1	1:A:159:VAL:HB	2.02	0.41
1:A:193:LEU:O	1:A:198:TYR:HD2	2.03	0.41
1:A:353:GLN:NE2	1:A:356:TRP:HE1	2.19	0.41
1:B:103:VAL:HG22	1:B:129:THR:HG21	2.02	0.41
1:C:75:ILE:N	1:C:158:GLY:HA3	2.36	0.41
1:D:105:LEU:HD11	1:D:123:MET:HG3	2.02	0.41
1:D:245:GLY:C	1:F:324:THR:CB	2.89	0.41
1:F:38:PRO:HD2	1:H:169:TYR:CZ	2.38	0.41
1:F:110:LEU:HD12	1:F:178:LEU:C	2.44	0.41
1:F:164:PRO:HG2	1:F:285:CYS:SG	2.61	0.41
1:F:353:GLN:NE2	1:F:356:TRP:HE1	2.19	0.41
1:H:193:LEU:O	1:H:198:TYR:HD2	2.03	0.41
1:H:202:THR:CG2	1:J:290:ARG:NE	2.76	0.41
1:J:34:ILE:HG23	1:J:84:LYS:HG2	1.92	0.41
1:A:75:ILE:N	1:A:158:GLY:HA3	2.36	0.41
1:B:72:GLU:CD	1:B:183:ARG:HH11	2.23	0.41
1:B:193:LEU:O	1:B:198:TYR:CD2	2.74	0.41
1:B:193:LEU:O	1:B:198:TYR:HD2	2.03	0.41
1:C:205:GLU:CB	1:E:287:VAL:HG12	2.46	0.41
1:D:43:VAL:CG2	1:D:50:LYS:H	2.34	0.41
1:D:204:ALA:HB1	1:F:291:LYS:HE2	2.03	0.41
1:F:105:LEU:HD11	1:F:123:MET:HG3	2.02	0.41
1:F:193:LEU:O	1:F:198:TYR:CD2	2.74	0.41
1:G:204:ALA:CB	1:I:288:ASP:HB3	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:105:LEU:HD11	1:H:123:MET:HG3	2.02	0.41
1:I:193:LEU:O	1:I:198:TYR:CD2	2.74	0.41
1:J:59:GLN:HE22	1:J:62:ARG:HH11	1.67	0.41
1:J:264:PRO:HD2	1:J:271:SER:O	2.20	0.41
1:B:34:ILE:HG23	1:B:84:LYS:HG2	1.92	0.41
1:B:43:VAL:CG2	1:B:50:LYS:H	2.34	0.41
1:B:48:GLY:N	1:D:148:THR:CG2	2.55	0.41
1:B:164:PRO:HG2	1:B:285:CYS:SG	2.61	0.41
1:B:223:PHE:CD1	1:B:259:GLU:HG3	2.56	0.41
1:C:135:ALA:CB	1:C:140:LEU:HD11	2.49	0.41
1:C:193:LEU:O	1:C:198:TYR:CD2	2.74	0.41
1:D:203:THR:CG2	1:F:286:ASP:OD2	2.68	0.41
1:D:245:GLY:C	1:F:323:SER:C	2.57	0.41
1:E:244:ASP:O	1:G:322:PRO:O	2.38	0.41
1:E:353:GLN:NE2	1:E:356:TRP:HE1	2.19	0.41
1:G:43:VAL:CG2	1:G:50:LYS:H	2.34	0.41
1:G:43:VAL:O	1:I:142:LEU:HD23	2.21	0.41
1:G:75:ILE:N	1:G:158:GLY:HA3	2.35	0.41
1:H:59:GLN:HE22	1:H:62:ARG:HH11	1.67	0.41
1:H:108:ALA:HB1	1:H:159:VAL:HB	2.02	0.41
1:H:243:PRO:O	1:J:325:MET:CA	2.60	0.41
1:A:72:GLU:CD	1:A:183:ARG:HH11	2.23	0.41
1:B:204:ALA:HB1	1:D:291:LYS:HE2	2.03	0.41
1:B:264:PRO:HD2	1:B:271:SER:O	2.20	0.41
1:C:34:ILE:HG23	1:C:84:LYS:HG2	1.92	0.41
1:C:43:VAL:CG2	1:C:50:LYS:H	2.34	0.41
1:C:108:ALA:HB1	1:C:159:VAL:HB	2.02	0.41
1:D:264:PRO:HD2	1:D:271:SER:O	2.20	0.41
1:E:43:VAL:CG2	1:E:50:LYS:H	2.34	0.41
1:E:193:LEU:O	1:E:198:TYR:HD2	2.03	0.41
1:F:140:LEU:O	1:F:342:GLY:HA3	2.21	0.41
1:G:46:GLY:HA2	1:I:147:ARG:HD2	1.51	0.41
1:H:43:VAL:HG23	1:J:168:GLY:HA3	1.03	0.41
1:J:72:GLU:CD	1:J:183:ARG:HH11	2.23	0.41
1:A:46:GLY:HA3	1:C:147:ARG:HD3	1.79	0.41
1:A:140:LEU:O	1:A:342:GLY:HA3	2.21	0.41
1:A:193:LEU:O	1:A:198:TYR:CD2	2.74	0.41
1:A:211:ASP:O	1:A:215:LYS:HB2	2.21	0.41
1:A:264:PRO:HD2	1:A:271:SER:O	2.20	0.41
1:C:223:PHE:CD1	1:C:259:GLU:HG3	2.56	0.41
1:D:103:VAL:HG22	1:D:129:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:223:PHE:CD1	1:D:259:GLU:HG3	2.56	0.41
1:E:110:LEU:HD12	1:E:178:LEU:C	2.44	0.41
1:E:211:ASP:O	1:E:215:LYS:HB2	2.21	0.41
1:E:223:PHE:CD1	1:E:259:GLU:HG3	2.56	0.41
1:F:43:VAL:CG2	1:F:50:LYS:H	2.34	0.41
1:F:264:PRO:HD2	1:F:271:SER:O	2.20	0.41
1:G:211:ASP:O	1:G:215:LYS:HB2	2.21	0.41
1:G:223:PHE:CD1	1:G:259:GLU:HG3	2.56	0.41
1:G:264:PRO:HD2	1:G:271:SER:O	2.20	0.41
1:H:43:VAL:O	1:J:142:LEU:HD23	2.21	0.41
1:H:50:LYS:HE3	1:H:50:LYS:HB3	1.95	0.41
1:H:103:VAL:HG22	1:H:129:THR:HG21	2.02	0.41
1:H:164:PRO:HG2	1:H:285:CYS:SG	2.61	0.41
1:I:43:VAL:CG2	1:I:50:LYS:H	2.34	0.41
1:I:223:PHE:CD1	1:I:259:GLU:HG3	2.56	0.41
1:I:264:PRO:HD2	1:I:271:SER:O	2.20	0.41
1:I:353:GLN:NE2	1:I:356:TRP:HE1	2.19	0.41
1:J:43:VAL:CG2	1:J:50:LYS:H	2.34	0.41
1:J:50:LYS:HE3	1:J:53:TYR:CE1	2.56	0.41
1:J:103:VAL:HG22	1:J:129:THR:HG21	2.02	0.41
1:J:105:LEU:HD11	1:J:123:MET:HG3	2.02	0.41
1:J:110:LEU:HD12	1:J:178:LEU:C	2.44	0.41
1:J:164:PRO:HG2	1:J:285:CYS:SG	2.61	0.41
1:J:274:ILE:HD12	1:J:274:ILE:HA	1.85	0.41
1:A:142:LEU:HD21	1:A:165:ILE:HB	1.91	0.41
1:A:223:PHE:CD1	1:A:259:GLU:HG3	2.56	0.41
1:B:47:MET:HB3	1:B:47:MET:HE2	1.84	0.41
1:C:244:ASP:O	1:E:322:PRO:CA	2.69	0.41
1:E:47:MET:HB3	1:E:47:MET:HE2	1.84	0.41
1:E:204:ALA:HB1	1:G:291:LYS:HE2	2.03	0.41
1:F:72:GLU:HG2	1:F:183:ARG:HG2	1.94	0.41
1:H:245:GLY:H	1:J:325:MET:HE2	1.31	0.41
1:I:50:LYS:HE3	1:I:50:LYS:HB3	1.95	0.41
1:I:164:PRO:HG2	1:I:285:CYS:SG	2.61	0.41
1:A:245:GLY:H	1:C:325:MET:HE2	1.31	0.40
1:B:75:ILE:N	1:B:158:GLY:HA3	2.35	0.40
1:B:108:ALA:HB1	1:B:159:VAL:HB	2.02	0.40
1:B:353:GLN:NE2	1:B:356:TRP:HE1	2.19	0.40
1:C:140:LEU:O	1:C:342:GLY:HA3	2.21	0.40
1:C:211:ASP:O	1:C:215:LYS:HB2	2.21	0.40
1:C:341:ILE:O	1:C:341:ILE:HG22	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:108:ALA:CA	1:E:159:VAL:CG1	2.83	0.40
1:E:369:ILE:O	1:E:369:ILE:HG12	2.22	0.40
1:F:103:VAL:HG22	1:F:129:THR:HG21	2.02	0.40
1:F:108:ALA:HB1	1:F:159:VAL:HB	2.02	0.40
1:F:202:THR:CG2	1:H:290:ARG:NE	2.76	0.40
1:F:223:PHE:CD1	1:F:259:GLU:HG3	2.56	0.40
1:G:244:ASP:O	1:I:322:PRO:CA	2.69	0.40
1:H:43:VAL:CG2	1:H:50:LYS:H	2.34	0.40
1:I:211:ASP:O	1:I:215:LYS:HB2	2.21	0.40
1:J:140:LEU:O	1:J:342:GLY:HA3	2.21	0.40
1:A:43:VAL:O	1:C:142:LEU:HD23	2.21	0.40
1:C:164:PRO:HG2	1:C:285:CYS:SG	2.61	0.40
1:D:38:PRO:HD2	1:F:169:TYR:CZ	2.38	0.40
1:E:274:ILE:HD12	1:E:274:ILE:HA	1.85	0.40
1:F:43:VAL:O	1:H:142:LEU:HD23	2.21	0.40
1:H:140:LEU:O	1:H:342:GLY:HA3	2.21	0.40
1:H:264:PRO:HD2	1:H:271:SER:O	2.20	0.40
1:B:43:VAL:O	1:D:142:LEU:HD23	2.21	0.40
1:C:244:ASP:O	1:E:322:PRO:N	2.55	0.40
1:D:34:ILE:CG2	1:D:84:LYS:CG	2.65	0.40
1:D:244:ASP:O	1:F:322:PRO:CA	2.69	0.40
1:D:244:ASP:O	1:F:322:PRO:N	2.55	0.40
1:E:75:ILE:N	1:E:158:GLY:HA3	2.36	0.40
1:E:108:ALA:HB1	1:E:159:VAL:HB	2.02	0.40
1:E:164:PRO:HG2	1:E:285:CYS:SG	2.61	0.40
1:G:164:PRO:HG2	1:G:285:CYS:SG	2.61	0.40
1:H:38:PRO:HD2	1:J:169:TYR:CZ	2.38	0.40
1:H:244:ASP:O	1:J:322:PRO:N	2.55	0.40
1:I:50:LYS:HE3	1:I:53:TYR:CE1	2.56	0.40
1:I:369:ILE:O	1:I:369:ILE:HG12	2.22	0.40
1:J:75:ILE:N	1:J:158:GLY:HA3	2.36	0.40
1:A:43:VAL:CG2	1:A:50:LYS:H	2.34	0.40
1:A:164:PRO:HG2	1:A:285:CYS:SG	2.61	0.40
1:A:244:ASP:O	1:C:322:PRO:N	2.55	0.40
1:B:244:ASP:O	1:D:322:PRO:CA	2.69	0.40
1:C:283:MET:HE3	1:C:283:MET:HB3	1.75	0.40
1:D:43:VAL:O	1:F:142:LEU:HD23	2.21	0.40
1:E:140:LEU:O	1:E:342:GLY:HA3	2.21	0.40
1:E:203:THR:HB	1:G:288:ASP:N	2.34	0.40
1:E:244:ASP:O	1:G:322:PRO:CA	2.69	0.40
1:F:203:THR:CG2	1:H:286:ASP:OD2	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:75:ILE:N	1:H:158:GLY:HA3	2.35	0.40
1:I:341:ILE:O	1:I:341:ILE:HG22	2.22	0.40
1:B:202:THR:HB	1:D:290:ARG:HD2	2.03	0.40
1:C:43:VAL:HG23	1:E:168:GLY:HA3	1.03	0.40
1:C:203:THR:HB	1:E:288:ASP:N	2.34	0.40
1:D:193:LEU:HA	1:D:193:LEU:HD12	1.91	0.40
1:E:245:GLY:H	1:G:325:MET:HE2	1.31	0.40
1:F:202:THR:HB	1:H:290:ARG:HD2	2.03	0.40
1:F:204:ALA:HB1	1:H:291:LYS:HE2	2.02	0.40
1:H:223:PHE:CD1	1:H:259:GLU:HG3	2.56	0.40
1:J:223:PHE:CD1	1:J:259:GLU:HG3	2.56	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	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	3	23
1	B	361/374 (96%)	318 (88%)	33 (9%)	10 (3%)	4	24
1	C	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	3	23
1	D	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	3	23
1	E	361/374 (96%)	318 (88%)	33 (9%)	10 (3%)	4	24
1	F	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	3	23
1	G	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	3	23
1	H	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	3	23
1	I	361/374 (96%)	318 (88%)	33 (9%)	10 (3%)	4	24
1	J	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	3	23
2	K	107/109 (98%)	102 (95%)	5 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	L	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
2	M	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
2	N	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
2	O	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
2	P	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
2	Q	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
2	R	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
2	S	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
2	T	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
All	All	4680/4830 (97%)	4200 (90%)	373 (8%)	107 (2%)	7	28

All (107) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	43	VAL
1	A	203	THR
1	A	233	SER
1	A	355	MET
1	B	43	VAL
1	B	203	THR
1	B	233	SER
1	B	355	MET
1	C	43	VAL
1	C	203	THR
1	C	233	SER
1	C	355	MET
1	D	43	VAL
1	D	203	THR
1	D	233	SER
1	D	355	MET
1	E	43	VAL
1	E	203	THR
1	E	233	SER
1	E	355	MET
1	F	43	VAL
1	F	203	THR
1	F	233	SER
1	F	355	MET
1	G	43	VAL

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Mol	Chain	Res	Type
1	G	203	THR
1	G	233	SER
1	G	355	MET
1	H	43	VAL
1	H	203	THR
1	H	233	SER
1	H	355	MET
1	I	43	VAL
1	I	203	THR
1	I	233	SER
1	I	355	MET
1	J	43	VAL
1	J	203	THR
1	J	233	SER
1	J	355	MET
1	A	5	ILE
1	A	40	HIS
1	A	234	SER
1	A	244	ASP
1	B	5	ILE
1	B	40	HIS
1	B	234	SER
1	B	244	ASP
1	C	5	ILE
1	C	40	HIS
1	C	234	SER
1	C	244	ASP
1	D	5	ILE
1	D	40	HIS
1	D	234	SER
1	D	244	ASP
1	E	5	ILE
1	E	40	HIS
1	E	234	SER
1	E	244	ASP
1	F	5	ILE
1	F	40	HIS
1	F	234	SER
1	F	244	ASP
1	G	5	ILE
1	G	40	HIS
1	G	234	SER

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Mol	Chain	Res	Type
1	G	244	ASP
1	H	5	ILE
1	H	40	HIS
1	H	234	SER
1	H	244	ASP
1	I	5	ILE
1	I	40	HIS
1	I	234	SER
1	I	244	ASP
1	J	5	ILE
1	J	40	HIS
1	J	234	SER
1	J	244	ASP
1	A	369	ILE
1	B	369	ILE
1	C	369	ILE
1	D	369	ILE
1	E	369	ILE
1	F	369	ILE
1	G	369	ILE
1	H	369	ILE
1	I	369	ILE
1	J	369	ILE
1	A	46	GLY
1	A	61	LYS
1	B	46	GLY
1	C	46	GLY
1	C	61	LYS
1	D	46	GLY
1	D	61	LYS
1	E	46	GLY
1	F	46	GLY
1	F	61	LYS
1	G	46	GLY
1	G	61	LYS
1	H	46	GLY
1	H	61	LYS
1	I	46	GLY
1	J	46	GLY
1	J	61	LYS

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	317/317 (100%)	271 (86%)	46 (14%)	3	13
1	B	317/317 (100%)	271 (86%)	46 (14%)	3	13
1	C	317/317 (100%)	271 (86%)	46 (14%)	3	13
1	D	317/317 (100%)	271 (86%)	46 (14%)	3	13
1	E	317/317 (100%)	271 (86%)	46 (14%)	3	13
1	F	317/317 (100%)	271 (86%)	46 (14%)	3	13
1	G	317/317 (100%)	271 (86%)	46 (14%)	3	13
1	H	317/317 (100%)	271 (86%)	46 (14%)	3	13
1	I	317/317 (100%)	271 (86%)	46 (14%)	3	13
1	J	317/317 (100%)	271 (86%)	46 (14%)	3	13
2	K	93/93 (100%)	90 (97%)	3 (3%)	34	56
2	L	93/93 (100%)	90 (97%)	3 (3%)	34	56
2	M	93/93 (100%)	90 (97%)	3 (3%)	34	56
2	N	93/93 (100%)	90 (97%)	3 (3%)	34	56
2	O	93/93 (100%)	90 (97%)	3 (3%)	34	56
2	P	93/93 (100%)	90 (97%)	3 (3%)	34	56
2	Q	93/93 (100%)	90 (97%)	3 (3%)	34	56
2	R	93/93 (100%)	90 (97%)	3 (3%)	34	56
2	S	93/93 (100%)	90 (97%)	3 (3%)	34	56
2	T	93/93 (100%)	90 (97%)	3 (3%)	34	56
All	All	4100/4100 (100%)	3610 (88%)	490 (12%)	7	17

All (490) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	ILE
1	A	18	LYS
1	A	34	ILE

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Mol	Chain	Res	Type
1	A	38	PRO
1	A	41	GLN
1	A	49	GLN
1	A	59	GLN
1	A	62	ARG
1	A	66	THR
1	A	68	LYS
1	A	80	ASP
1	A	93	GLU
1	A	96	VAL
1	A	148	THR
1	A	149	THR
1	A	151	ILE
1	A	177	ARG
1	A	178	LEU
1	A	180	LEU
1	A	191	LYS
1	A	193	LEU
1	A	203	THR
1	A	206	ARG
1	A	207	GLU
1	A	208	ILE
1	A	210	ARG
1	A	234	SER
1	A	236	LEU
1	A	244	ASP
1	A	246	GLN
1	A	247	VAL
1	A	265	SER
1	A	274	ILE
1	A	289	ILE
1	A	291	LYS
1	A	313	MET
1	A	324	THR
1	A	329	ILE
1	A	330	ILE
1	A	335	ARG
1	A	336	LYS
1	A	346	LEU
1	A	350	SER
1	A	360	GLN
1	A	365	SER

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Mol	Chain	Res	Type
1	A	370	VAL
1	B	5	ILE
1	B	18	LYS
1	B	34	ILE
1	B	38	PRO
1	B	41	GLN
1	B	49	GLN
1	B	59	GLN
1	B	62	ARG
1	B	66	THR
1	B	68	LYS
1	B	80	ASP
1	B	93	GLU
1	B	96	VAL
1	B	148	THR
1	B	149	THR
1	B	151	ILE
1	B	177	ARG
1	B	178	LEU
1	B	180	LEU
1	B	191	LYS
1	B	193	LEU
1	B	203	THR
1	B	206	ARG
1	B	207	GLU
1	B	208	ILE
1	B	210	ARG
1	B	234	SER
1	B	236	LEU
1	B	244	ASP
1	B	246	GLN
1	B	247	VAL
1	B	265	SER
1	B	274	ILE
1	B	289	ILE
1	B	291	LYS
1	B	313	MET
1	B	324	THR
1	B	329	ILE
1	B	330	ILE
1	B	335	ARG
1	B	336	LYS

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Mol	Chain	Res	Type
1	B	346	LEU
1	B	350	SER
1	B	360	GLN
1	B	365	SER
1	B	370	VAL
1	C	5	ILE
1	C	18	LYS
1	C	34	ILE
1	C	38	PRO
1	C	41	GLN
1	C	49	GLN
1	C	59	GLN
1	C	62	ARG
1	C	66	THR
1	C	68	LYS
1	C	80	ASP
1	C	93	GLU
1	C	96	VAL
1	C	148	THR
1	C	149	THR
1	C	151	ILE
1	C	177	ARG
1	C	178	LEU
1	C	180	LEU
1	C	191	LYS
1	C	193	LEU
1	C	203	THR
1	C	206	ARG
1	C	207	GLU
1	C	208	ILE
1	C	210	ARG
1	C	234	SER
1	C	236	LEU
1	C	244	ASP
1	C	246	GLN
1	C	247	VAL
1	C	265	SER
1	C	274	ILE
1	C	289	ILE
1	C	291	LYS
1	C	313	MET
1	C	324	THR

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Mol	Chain	Res	Type
1	C	329	ILE
1	C	330	ILE
1	C	335	ARG
1	C	336	LYS
1	C	346	LEU
1	C	350	SER
1	C	360	GLN
1	C	365	SER
1	C	370	VAL
1	D	5	ILE
1	D	18	LYS
1	D	34	ILE
1	D	38	PRO
1	D	41	GLN
1	D	49	GLN
1	D	59	GLN
1	D	62	ARG
1	D	66	THR
1	D	68	LYS
1	D	80	ASP
1	D	93	GLU
1	D	96	VAL
1	D	148	THR
1	D	149	THR
1	D	151	ILE
1	D	177	ARG
1	D	178	LEU
1	D	180	LEU
1	D	191	LYS
1	D	193	LEU
1	D	203	THR
1	D	206	ARG
1	D	207	GLU
1	D	208	ILE
1	D	210	ARG
1	D	234	SER
1	D	236	LEU
1	D	244	ASP
1	D	246	GLN
1	D	247	VAL
1	D	265	SER
1	D	274	ILE

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Mol	Chain	Res	Type
1	D	289	ILE
1	D	291	LYS
1	D	313	MET
1	D	324	THR
1	D	329	ILE
1	D	330	ILE
1	D	335	ARG
1	D	336	LYS
1	D	346	LEU
1	D	350	SER
1	D	360	GLN
1	D	365	SER
1	D	370	VAL
1	E	5	ILE
1	E	18	LYS
1	E	34	ILE
1	E	38	PRO
1	E	41	GLN
1	E	49	GLN
1	E	59	GLN
1	E	62	ARG
1	E	66	THR
1	E	68	LYS
1	E	80	ASP
1	E	93	GLU
1	E	96	VAL
1	E	148	THR
1	E	149	THR
1	E	151	ILE
1	E	177	ARG
1	E	178	LEU
1	E	180	LEU
1	E	191	LYS
1	E	193	LEU
1	E	203	THR
1	E	206	ARG
1	E	207	GLU
1	E	208	ILE
1	E	210	ARG
1	E	234	SER
1	E	236	LEU
1	E	244	ASP

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Mol	Chain	Res	Type
1	E	246	GLN
1	E	247	VAL
1	E	265	SER
1	E	274	ILE
1	E	289	ILE
1	E	291	LYS
1	E	313	MET
1	E	324	THR
1	E	329	ILE
1	E	330	ILE
1	E	335	ARG
1	E	336	LYS
1	E	346	LEU
1	E	350	SER
1	E	360	GLN
1	E	365	SER
1	E	370	VAL
1	F	5	ILE
1	F	18	LYS
1	F	34	ILE
1	F	38	PRO
1	F	41	GLN
1	F	49	GLN
1	F	59	GLN
1	F	62	ARG
1	F	66	THR
1	F	68	LYS
1	F	80	ASP
1	F	93	GLU
1	F	96	VAL
1	F	148	THR
1	F	149	THR
1	F	151	ILE
1	F	177	ARG
1	F	178	LEU
1	F	180	LEU
1	F	191	LYS
1	F	193	LEU
1	F	203	THR
1	F	206	ARG
1	F	207	GLU
1	F	208	ILE

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Mol	Chain	Res	Type
1	F	210	ARG
1	F	234	SER
1	F	236	LEU
1	F	244	ASP
1	F	246	GLN
1	F	247	VAL
1	F	265	SER
1	F	274	ILE
1	F	289	ILE
1	F	291	LYS
1	F	313	MET
1	F	324	THR
1	F	329	ILE
1	F	330	ILE
1	F	335	ARG
1	F	336	LYS
1	F	346	LEU
1	F	350	SER
1	F	360	GLN
1	F	365	SER
1	F	370	VAL
1	G	5	ILE
1	G	18	LYS
1	G	34	ILE
1	G	38	PRO
1	G	41	GLN
1	G	49	GLN
1	G	59	GLN
1	G	62	ARG
1	G	66	THR
1	G	68	LYS
1	G	80	ASP
1	G	93	GLU
1	G	96	VAL
1	G	148	THR
1	G	149	THR
1	G	151	ILE
1	G	177	ARG
1	G	178	LEU
1	G	180	LEU
1	G	191	LYS
1	G	193	LEU

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Mol	Chain	Res	Type
1	G	203	THR
1	G	206	ARG
1	G	207	GLU
1	G	208	ILE
1	G	210	ARG
1	G	234	SER
1	G	236	LEU
1	G	244	ASP
1	G	246	GLN
1	G	247	VAL
1	G	265	SER
1	G	274	ILE
1	G	289	ILE
1	G	291	LYS
1	G	313	MET
1	G	324	THR
1	G	329	ILE
1	G	330	ILE
1	G	335	ARG
1	G	336	LYS
1	G	346	LEU
1	G	350	SER
1	G	360	GLN
1	G	365	SER
1	G	370	VAL
1	H	5	ILE
1	H	18	LYS
1	H	34	ILE
1	H	38	PRO
1	H	41	GLN
1	H	49	GLN
1	H	59	GLN
1	H	62	ARG
1	H	66	THR
1	H	68	LYS
1	H	80	ASP
1	H	93	GLU
1	H	96	VAL
1	H	148	THR
1	H	149	THR
1	H	151	ILE
1	H	177	ARG

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Mol	Chain	Res	Type
1	H	178	LEU
1	H	180	LEU
1	H	191	LYS
1	H	193	LEU
1	H	203	THR
1	H	206	ARG
1	H	207	GLU
1	H	208	ILE
1	H	210	ARG
1	H	234	SER
1	H	236	LEU
1	H	244	ASP
1	H	246	GLN
1	H	247	VAL
1	H	265	SER
1	H	274	ILE
1	H	289	ILE
1	H	291	LYS
1	H	313	MET
1	H	324	THR
1	H	329	ILE
1	H	330	ILE
1	H	335	ARG
1	H	336	LYS
1	H	346	LEU
1	H	350	SER
1	H	360	GLN
1	H	365	SER
1	H	370	VAL
1	I	5	ILE
1	I	18	LYS
1	I	34	ILE
1	I	38	PRO
1	I	41	GLN
1	I	49	GLN
1	I	59	GLN
1	I	62	ARG
1	I	66	THR
1	I	68	LYS
1	I	80	ASP
1	I	93	GLU
1	I	96	VAL

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Mol	Chain	Res	Type
1	I	148	THR
1	I	149	THR
1	I	151	ILE
1	I	177	ARG
1	I	178	LEU
1	I	180	LEU
1	I	191	LYS
1	I	193	LEU
1	I	203	THR
1	I	206	ARG
1	I	207	GLU
1	I	208	ILE
1	I	210	ARG
1	I	234	SER
1	I	236	LEU
1	I	244	ASP
1	I	246	GLN
1	I	247	VAL
1	I	265	SER
1	I	274	ILE
1	I	289	ILE
1	I	291	LYS
1	I	313	MET
1	I	324	THR
1	I	329	ILE
1	I	330	ILE
1	I	335	ARG
1	I	336	LYS
1	I	346	LEU
1	I	350	SER
1	I	360	GLN
1	I	365	SER
1	I	370	VAL
1	J	5	ILE
1	J	18	LYS
1	J	34	ILE
1	J	38	PRO
1	J	41	GLN
1	J	49	GLN
1	J	59	GLN
1	J	62	ARG
1	J	66	THR

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Mol	Chain	Res	Type
1	J	68	LYS
1	J	80	ASP
1	J	93	GLU
1	J	96	VAL
1	J	148	THR
1	J	149	THR
1	J	151	ILE
1	J	177	ARG
1	J	178	LEU
1	J	180	LEU
1	J	191	LYS
1	J	193	LEU
1	J	203	THR
1	J	206	ARG
1	J	207	GLU
1	J	208	ILE
1	J	210	ARG
1	J	234	SER
1	J	236	LEU
1	J	244	ASP
1	J	246	GLN
1	J	247	VAL
1	J	265	SER
1	J	274	ILE
1	J	289	ILE
1	J	291	LYS
1	J	313	MET
1	J	324	THR
1	J	329	ILE
1	J	330	ILE
1	J	335	ARG
1	J	336	LYS
1	J	346	LEU
1	J	350	SER
1	J	360	GLN
1	J	365	SER
1	J	370	VAL
2	K	95	ASP
2	K	108	ASN
2	K	136	MET
2	M	95	ASP
2	M	108	ASN

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Mol	Chain	Res	Type
2	M	136	MET
2	L	95	ASP
2	L	108	ASN
2	L	136	MET
2	O	95	ASP
2	O	108	ASN
2	O	136	MET
2	N	95	ASP
2	N	108	ASN
2	N	136	MET
2	Q	95	ASP
2	Q	108	ASN
2	Q	136	MET
2	P	95	ASP
2	P	108	ASN
2	P	136	MET
2	S	95	ASP
2	S	108	ASN
2	S	136	MET
2	R	95	ASP
2	R	108	ASN
2	R	136	MET
2	T	95	ASP
2	T	108	ASN
2	T	136	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (39) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	GLN
1	A	59	GLN
1	A	87	HIS
1	A	353	GLN
1	B	41	GLN
1	B	59	GLN
1	B	87	HIS
1	B	353	GLN
1	C	41	GLN
1	C	59	GLN
1	C	87	HIS
1	C	353	GLN
1	D	41	GLN

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Mol	Chain	Res	Type
1	D	59	GLN
1	D	87	HIS
1	D	353	GLN
1	E	41	GLN
1	E	59	GLN
1	E	87	HIS
1	E	353	GLN
1	F	40	HIS
1	F	41	GLN
1	F	59	GLN
1	F	87	HIS
1	F	353	GLN
1	G	41	GLN
1	G	59	GLN
1	G	87	HIS
1	G	353	GLN
1	H	41	GLN
1	H	59	GLN
1	H	87	HIS
1	H	353	GLN
1	I	59	GLN
1	I	87	HIS
1	I	353	GLN
1	J	59	GLN
1	J	87	HIS
1	J	353	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	6
1	B	6
1	C	6
1	G	6
1	I	6
1	D	6
1	E	6
1	F	6
1	H	6
1	J	6

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	69:TYR	C	70:PRO	N	11.23
1	B	69:TYR	C	70:PRO	N	11.23
1	C	69:TYR	C	70:PRO	N	11.23
1	G	69:TYR	C	70:PRO	N	11.23
1	I	69:TYR	C	70:PRO	N	11.23
1	D	69:TYR	C	70:PRO	N	11.22
1	E	69:TYR	C	70:PRO	N	11.22
1	F	69:TYR	C	70:PRO	N	11.22
1	H	69:TYR	C	70:PRO	N	11.22
1	J	69:TYR	C	70:PRO	N	11.22
1	H	33:SER	C	34:ILE	N	7.83
1	I	33:SER	C	34:ILE	N	7.83
1	A	33:SER	C	34:ILE	N	7.82
1	B	33:SER	C	34:ILE	N	7.82
1	C	33:SER	C	34:ILE	N	7.82
1	D	33:SER	C	34:ILE	N	7.82

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	33:SER	C	34:ILE	N	7.82
1	F	33:SER	C	34:ILE	N	7.82
1	G	33:SER	C	34:ILE	N	7.82
1	J	33:SER	C	34:ILE	N	7.82
1	A	72:GLU	C	73:HIS	N	4.24
1	B	72:GLU	C	73:HIS	N	4.24
1	C	72:GLU	C	73:HIS	N	4.24
1	D	72:GLU	C	73:HIS	N	4.24
1	E	72:GLU	C	73:HIS	N	4.24
1	F	72:GLU	C	73:HIS	N	4.24
1	G	72:GLU	C	73:HIS	N	4.24
1	H	72:GLU	C	73:HIS	N	4.24
1	I	72:GLU	C	73:HIS	N	4.24
1	J	72:GLU	C	73:HIS	N	4.24
1	A	73:HIS	C	74:GLY	N	4.21
1	B	73:HIS	C	74:GLY	N	4.21
1	C	73:HIS	C	74:GLY	N	4.21
1	D	73:HIS	C	74:GLY	N	4.21
1	E	73:HIS	C	74:GLY	N	4.21
1	F	73:HIS	C	74:GLY	N	4.21
1	G	73:HIS	C	74:GLY	N	4.21
1	H	73:HIS	C	74:GLY	N	4.21
1	I	73:HIS	C	74:GLY	N	4.21
1	J	73:HIS	C	74:GLY	N	4.21
1	A	335:ARG	C	336:LYS	N	3.45
1	B	335:ARG	C	336:LYS	N	3.45
1	C	335:ARG	C	336:LYS	N	3.45
1	D	335:ARG	C	336:LYS	N	3.45
1	E	335:ARG	C	336:LYS	N	3.45
1	F	335:ARG	C	336:LYS	N	3.45
1	G	335:ARG	C	336:LYS	N	3.45
1	H	335:ARG	C	336:LYS	N	3.45
1	I	335:ARG	C	336:LYS	N	3.45
1	J	335:ARG	C	336:LYS	N	3.45
1	A	145:SER	C	146:GLY	N	2.16
1	B	145:SER	C	146:GLY	N	2.16
1	C	145:SER	C	146:GLY	N	2.16
1	D	145:SER	C	146:GLY	N	2.16
1	E	145:SER	C	146:GLY	N	2.16
1	F	145:SER	C	146:GLY	N	2.16
1	G	145:SER	C	146:GLY	N	2.16
1	H	145:SER	C	146:GLY	N	2.16

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	I	145:SER	C	146:GLY	N	2.16
1	J	145:SER	C	146:GLY	N	2.16

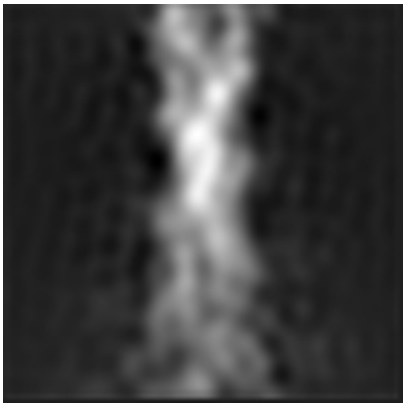
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-5170. These allow visual inspection of the internal detail of the map and identification of artifacts.

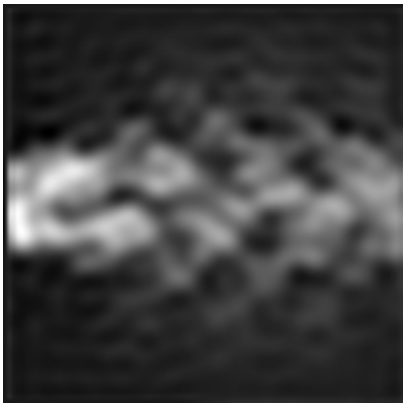
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

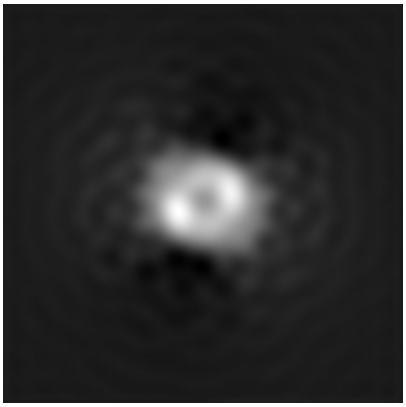
6.1.1 Primary map



X



Y

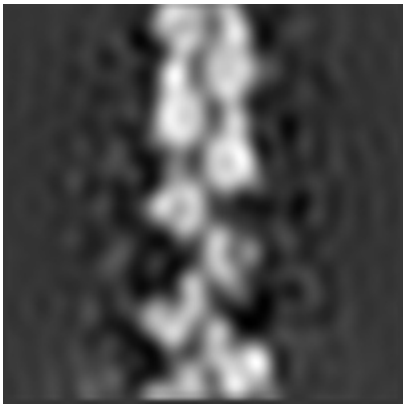


Z

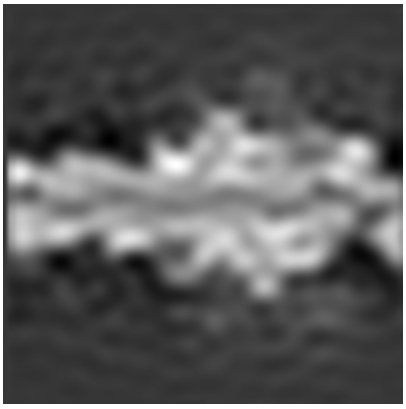
The images above show the map projected in three orthogonal directions.

6.2 Central slices

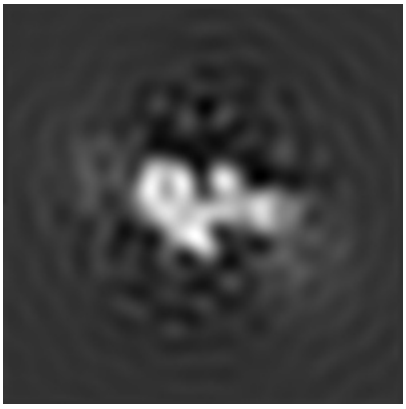
6.2.1 Primary map



X Index: 50



Y Index: 50

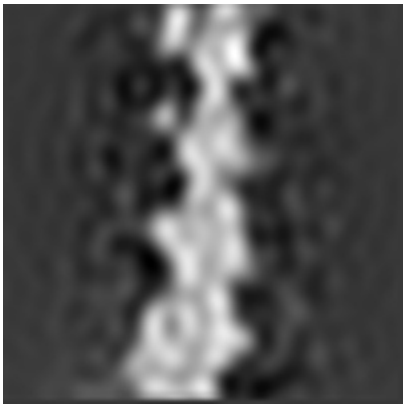


Z Index: 50

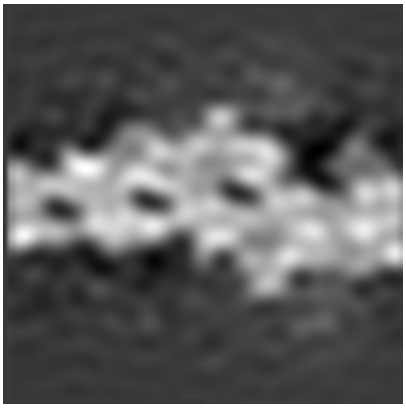
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

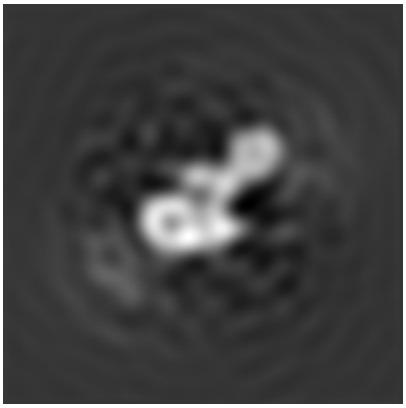
6.3.1 Primary map



X Index: 56



Y Index: 46

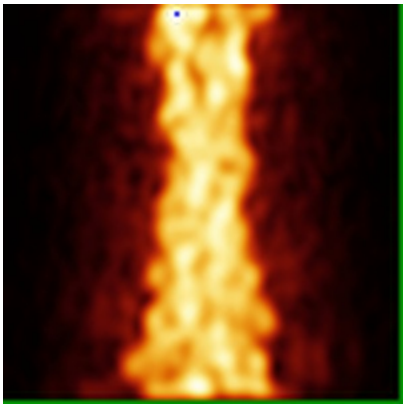


Z Index: 97

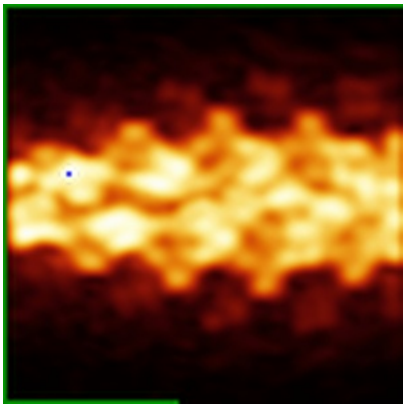
The images above show the largest variance slices of the map in three orthogonal directions.

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

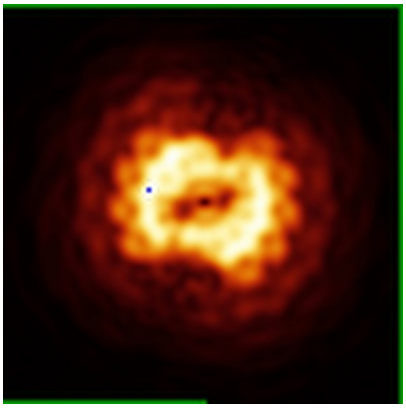
6.4.1 Primary map



X



Y

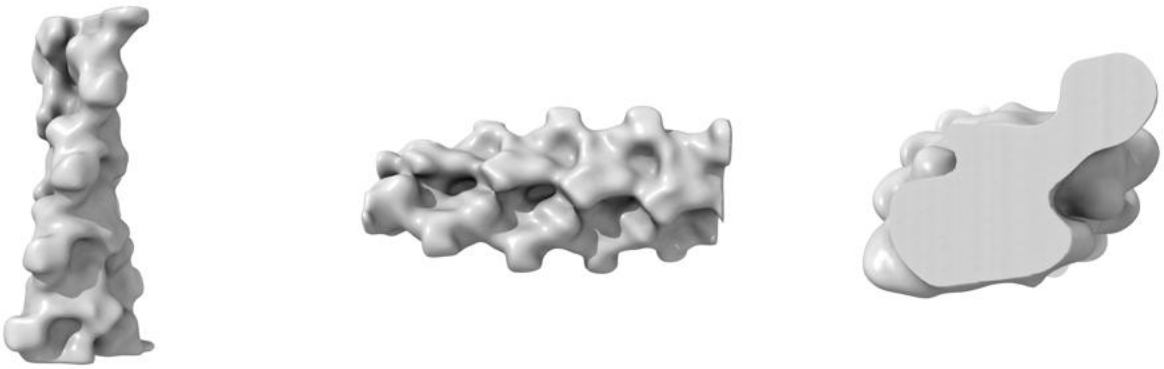


Z

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



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.61. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

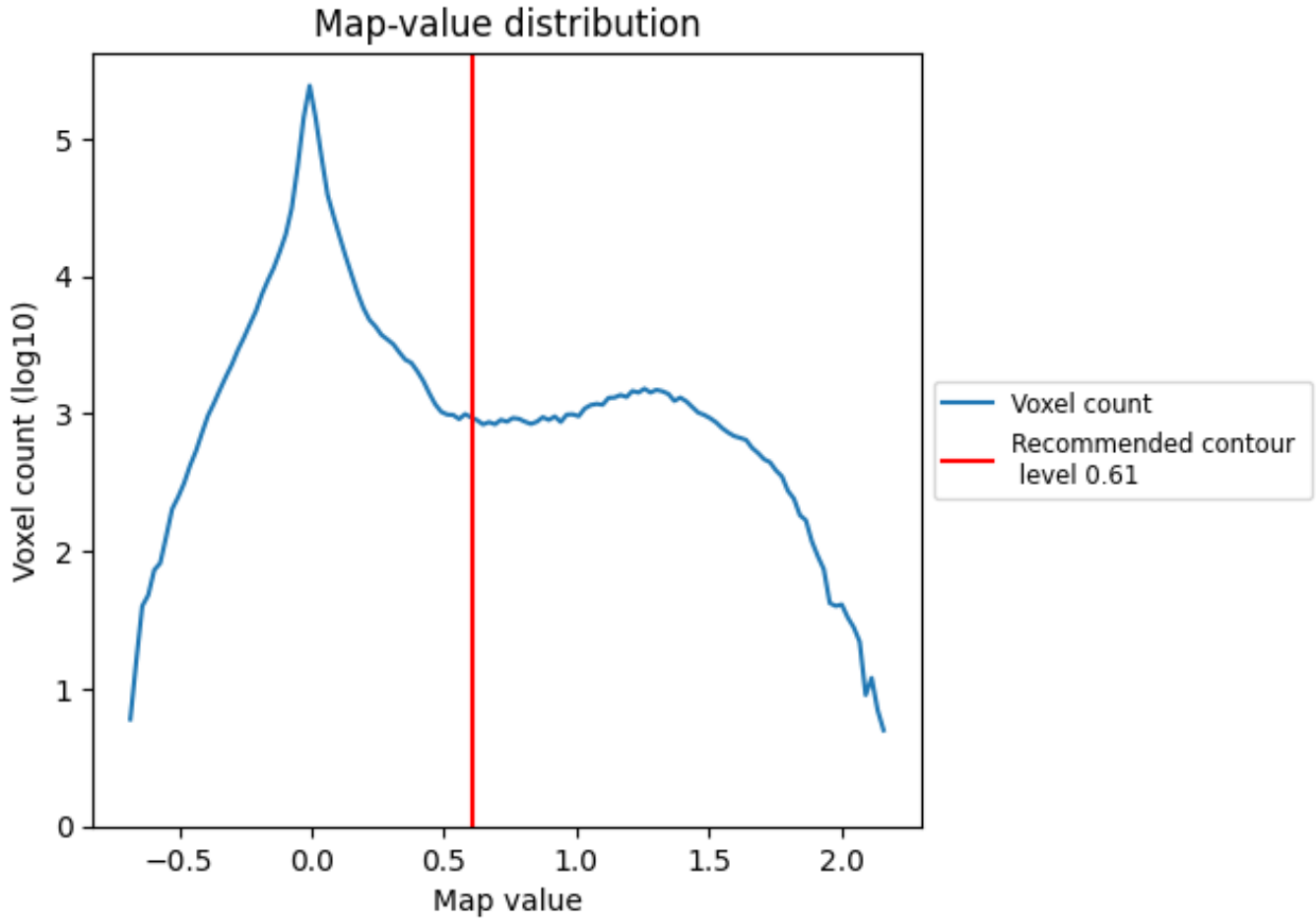
6.6 Mask visualisation (i)

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

7 Map analysis

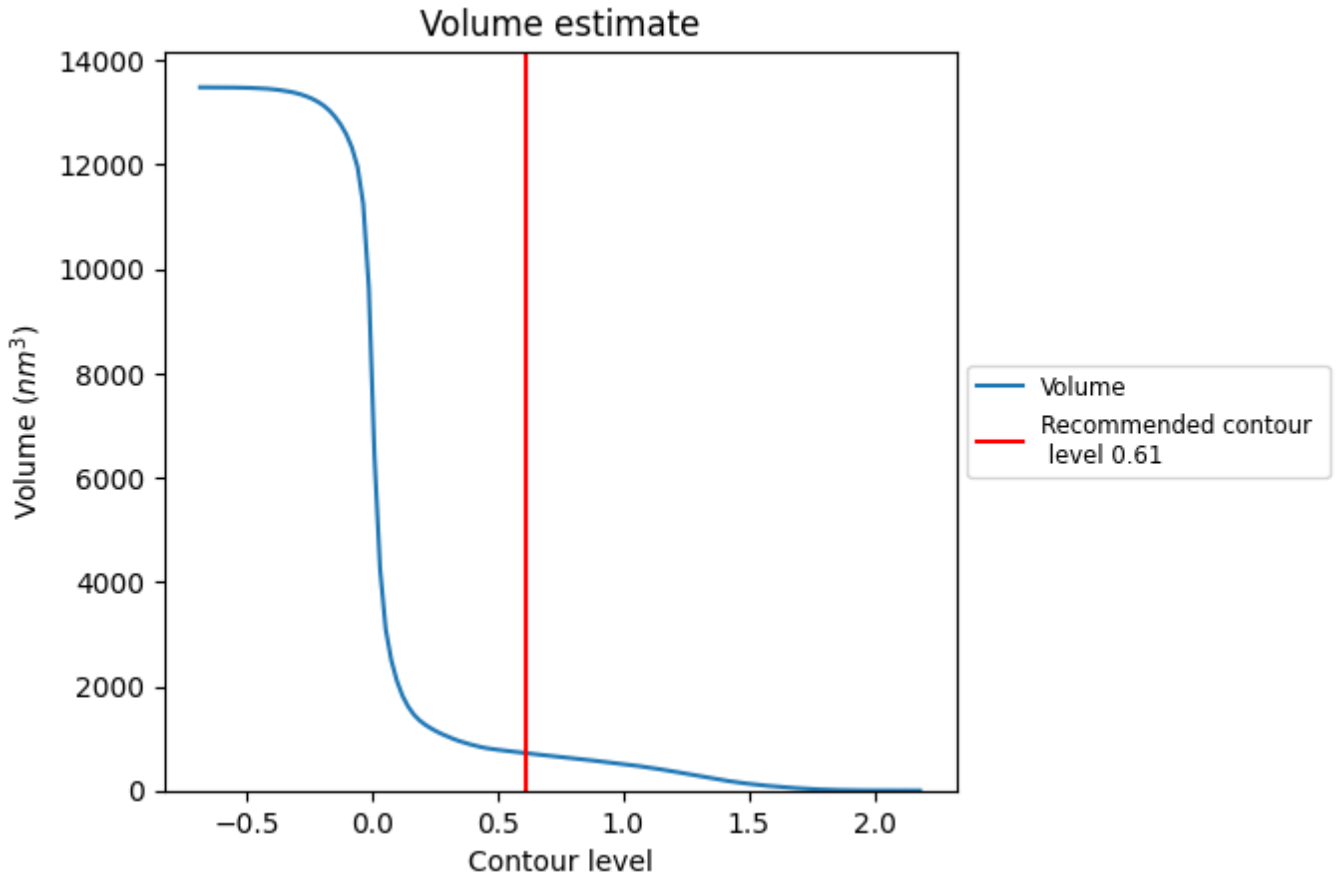
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

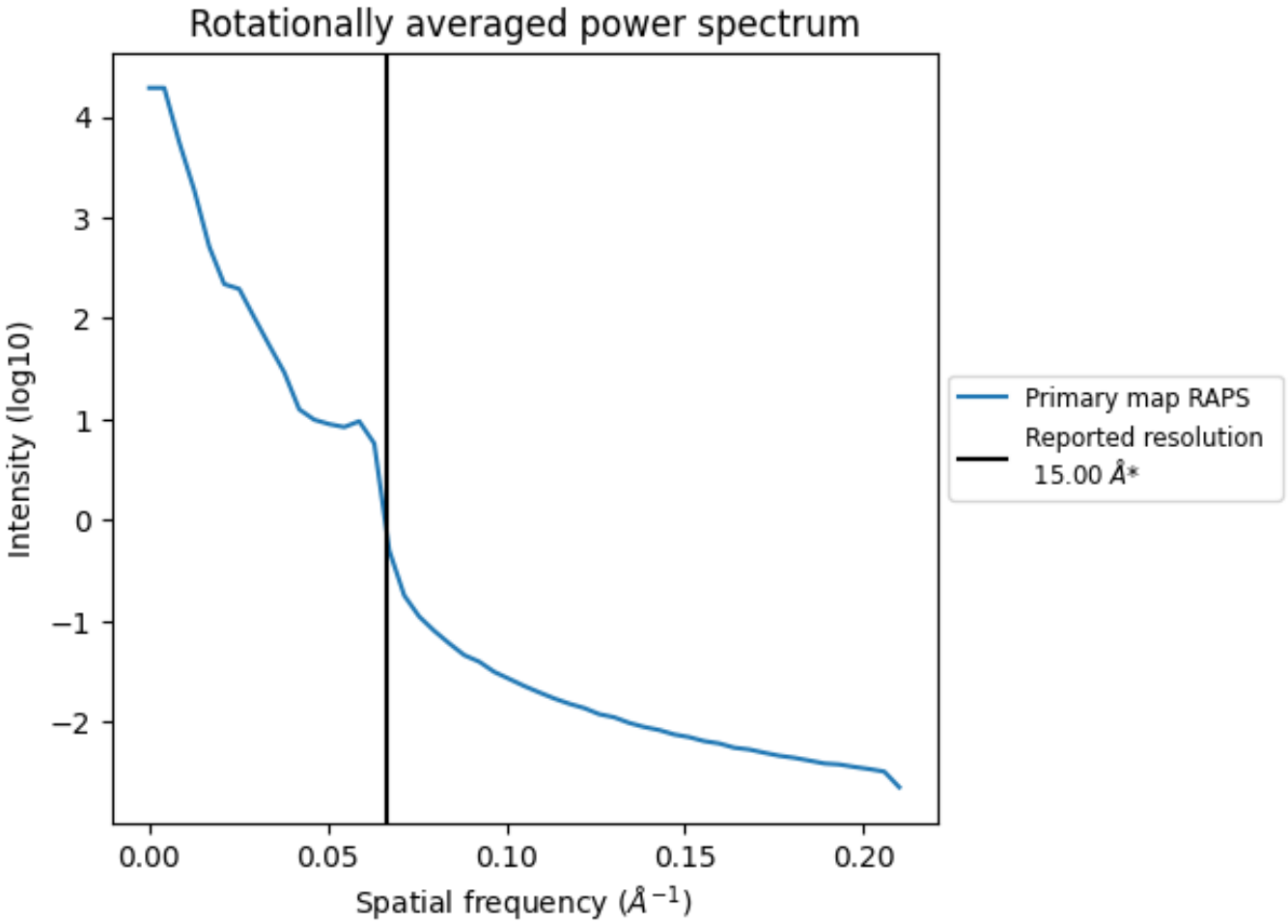
7.2 Volume estimate



The volume at the recommended contour level is 718 nm^3; this corresponds to an approximate mass of 649 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.067 $Å^{-1}$

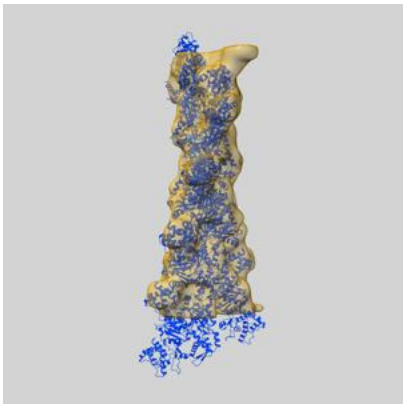
8 Fourier-Shell correlation

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

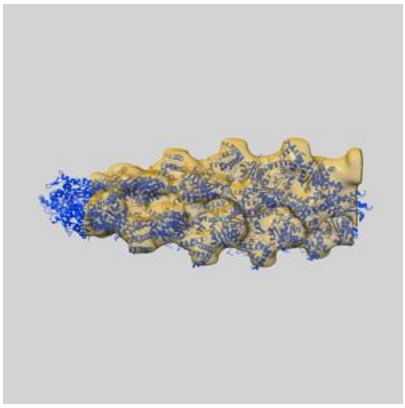
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-5170 and PDB model 3LUE. Per-residue inclusion information can be found in section 3 on page 6.

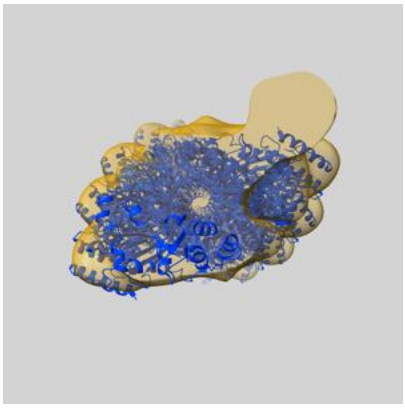
9.1 Map-model overlay



X



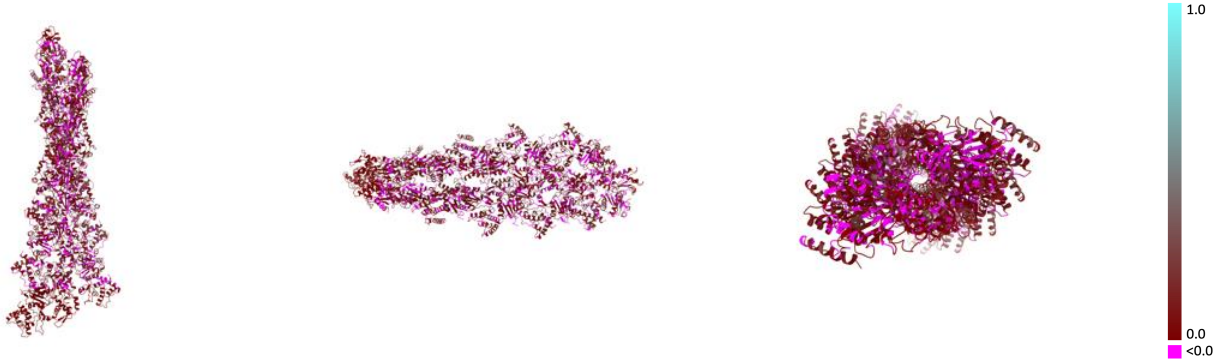
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.61 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

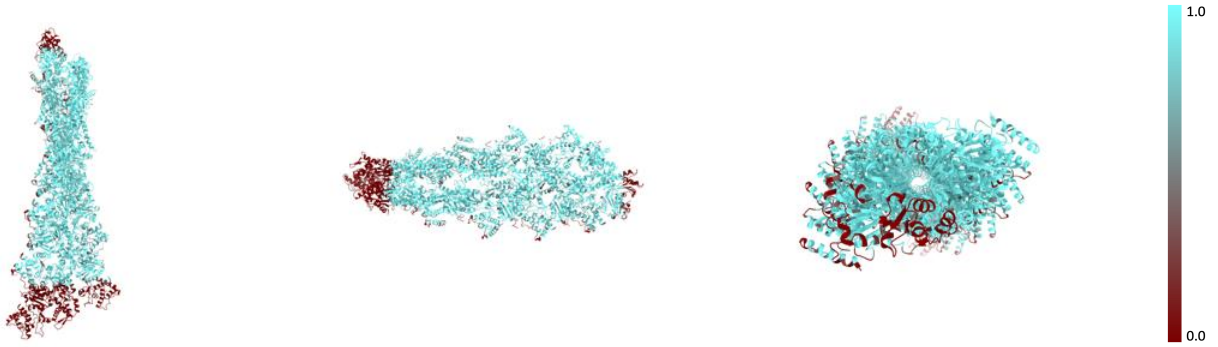
9.2 Q-score mapped to coordinate model



X Y Z

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

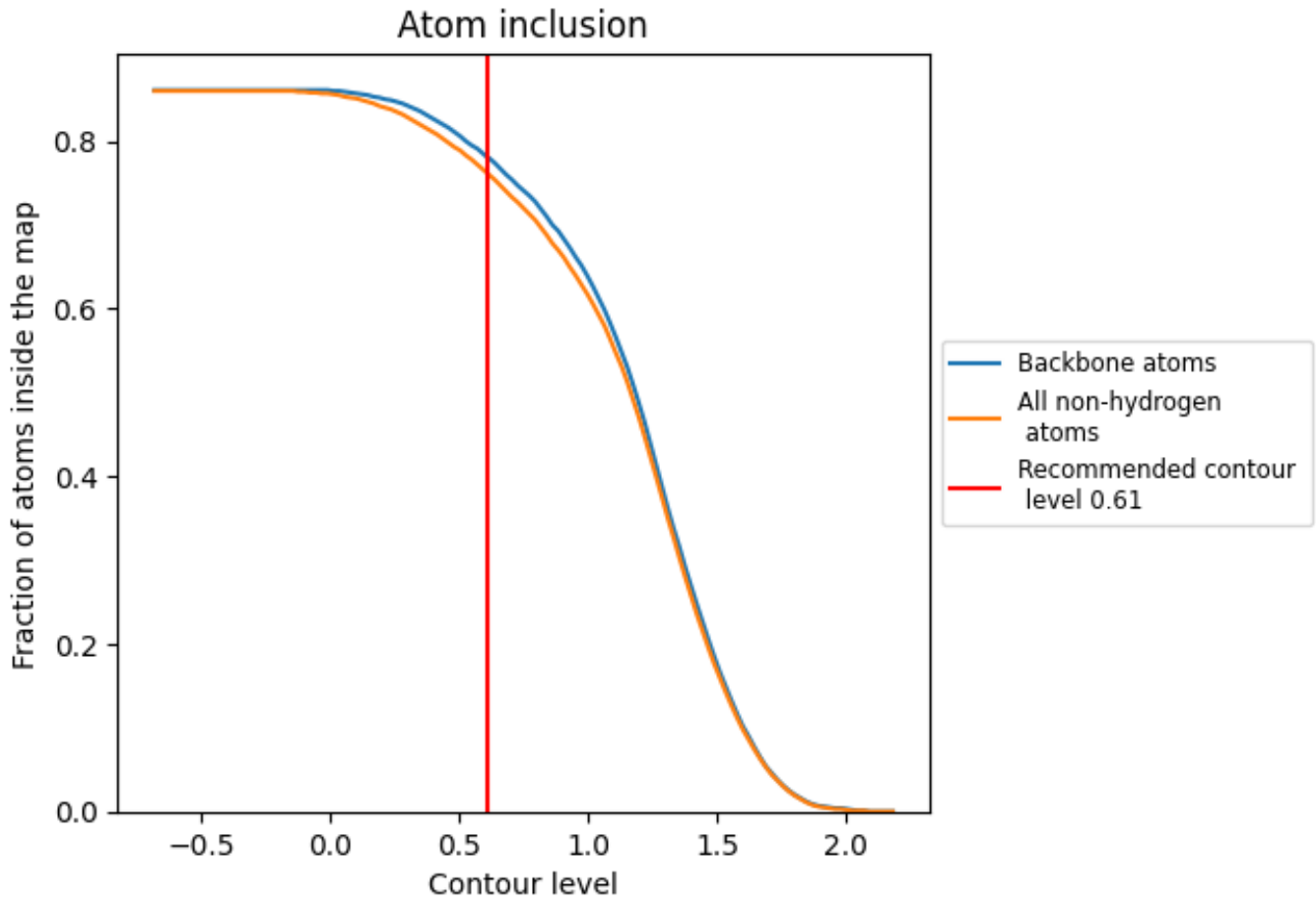
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.61).

9.4 Atom inclusion (i)



At the recommended contour level, 78% of all backbone atoms, 76% 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 (0.61) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7610	0.0490
A	0.6730	0.0440
B	0.9440	0.0540
C	0.9130	0.0600
D	0.9400	0.0550
E	0.9110	0.0620
F	0.9310	0.0540
G	0.9140	0.0630
H	0.9300	0.0580
I	0.7480	0.0460
J	0.1490	0.0060
K	0.6910	0.0540
L	0.6850	0.0550
M	0.8730	0.0630
N	0.6920	0.0540
O	0.8680	0.0640
P	0.7250	0.0570
Q	0.8100	0.0620
R	0.0500	-0.0190
S	0.7490	0.0560
T	0.0000	0.0000