Full wwPDB EM Validation Report

Nov 19, 2022 – 09:29 PM EST

PDB ID	:	3LUE
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 (i) 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 (i)) were used in the production of this report:

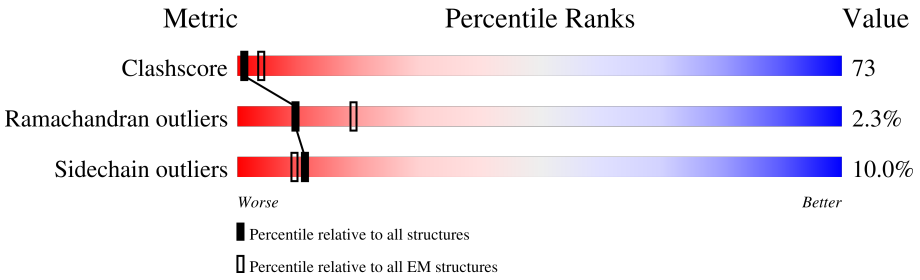
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

1 Overall quality at a glance

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

The reported resolution of this entry is 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)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	374	31% 47% 39% 12% ·
1	B	374	· 47% 40% 12% ·
1	C	374	7% 43% 41% 14% ·
1	D	374	5% 43% 41% 14% ·
1	E	374	8% 43% 41% 14% ·
1	F	374	5% 44% 41% 14% ·
1	G	374	7% 43% 41% 14% ·
1	H	374	5% 44% 41% 14% ·

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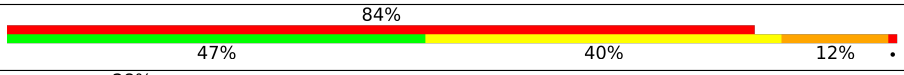
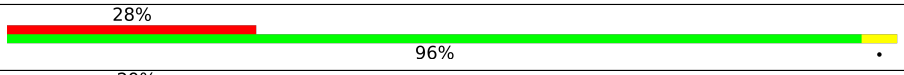
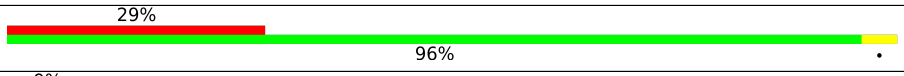
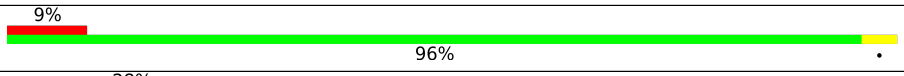
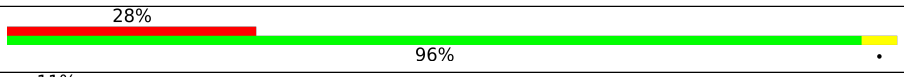
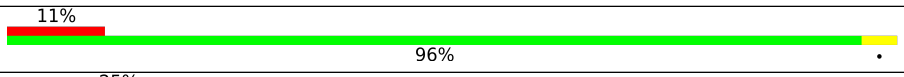
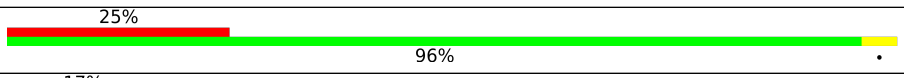
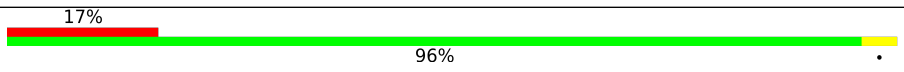
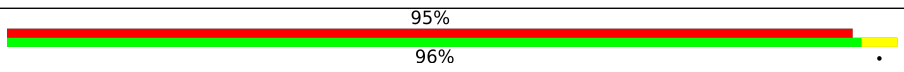
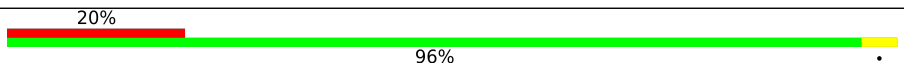
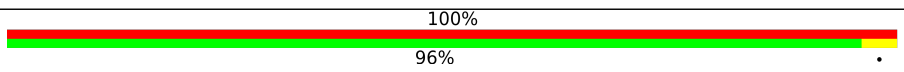
Mol	Chain	Length	Quality of chain
1	I	374	
1	J	374	
2	K	109	
2	L	109	
2	M	109	
2	N	109	
2	O	109	
2	P	109	
2	Q	109	
2	R	109	
2	S	109	
2	T	109	

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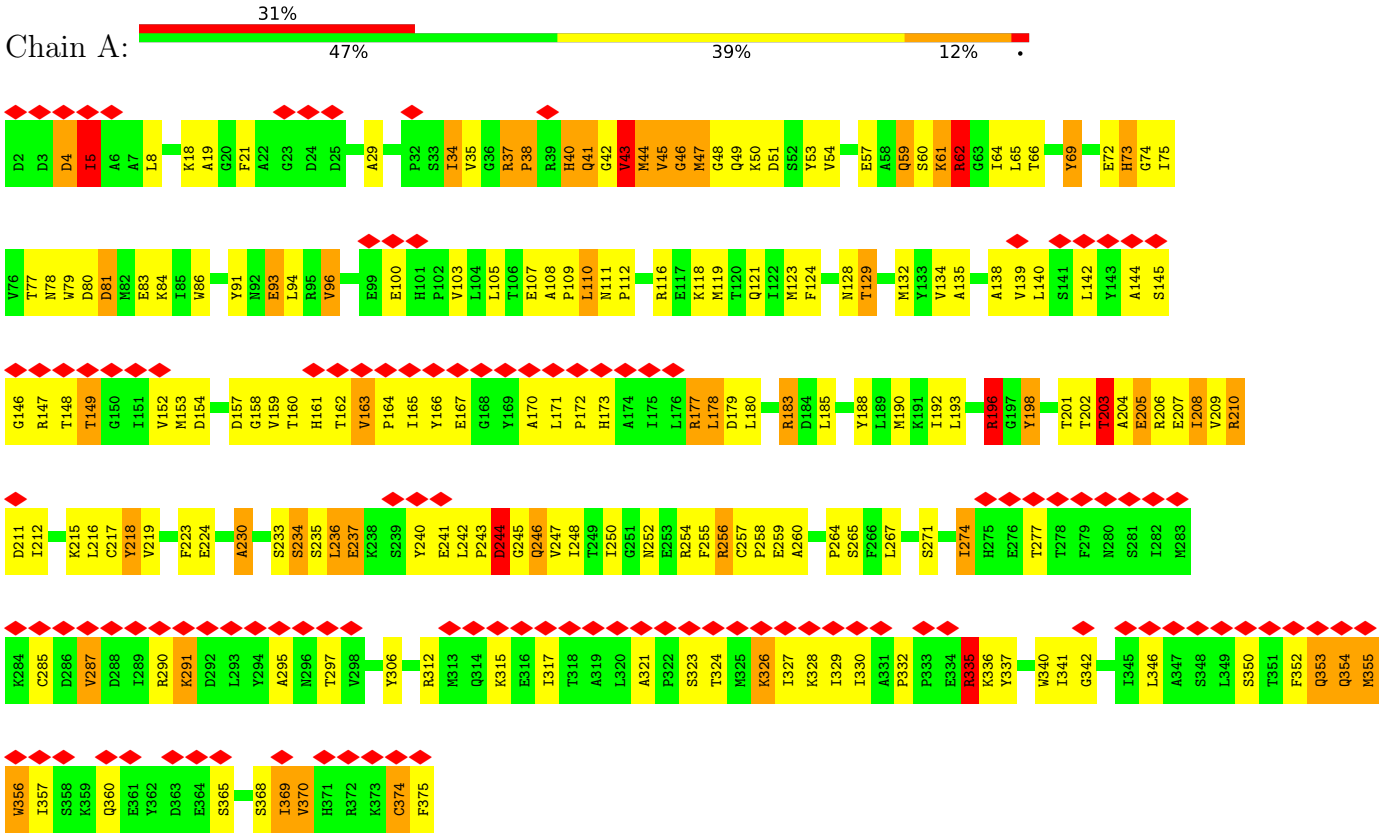
Mol	Chain	Residues	Atoms					AltConf	Trace
2	Q	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	P	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	S	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	R	109	Total	C	N	O	S	0	0
			874	561	157	151	5		
2	T	109	Total	C	N	O	S	0	0
			874	561	157	151	5		

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.

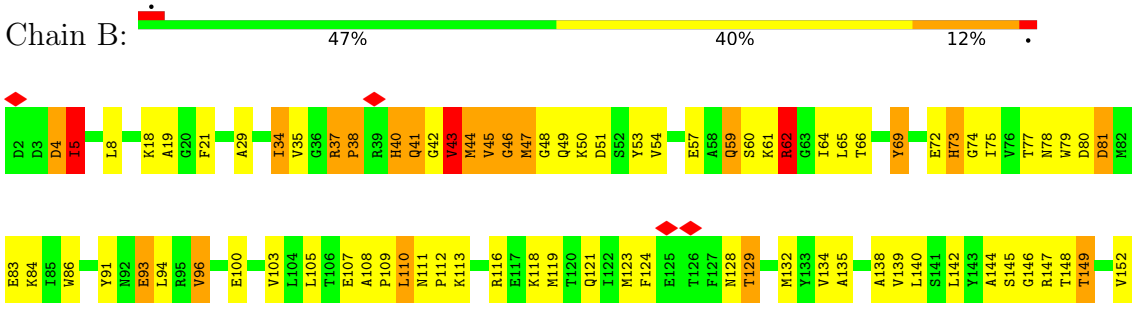
• Molecule 1: Actin, cytoplasmic 1

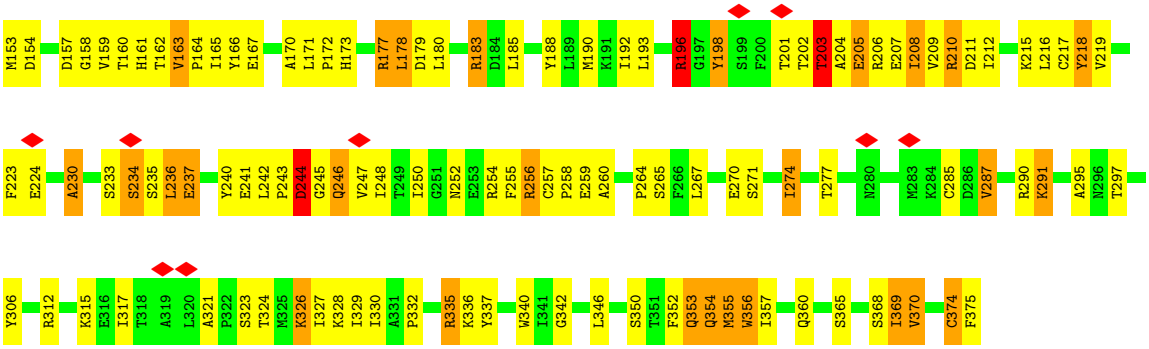
Chain A:



• Molecule 1: Actin, cytoplasmic 1

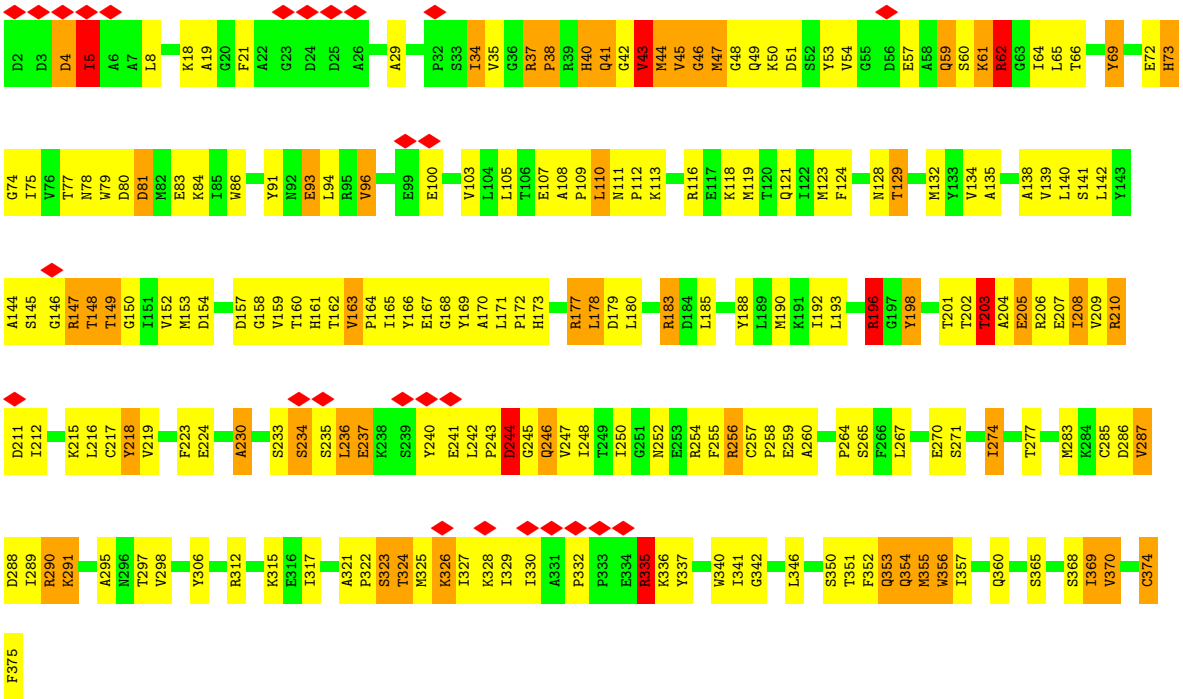
Chain B:





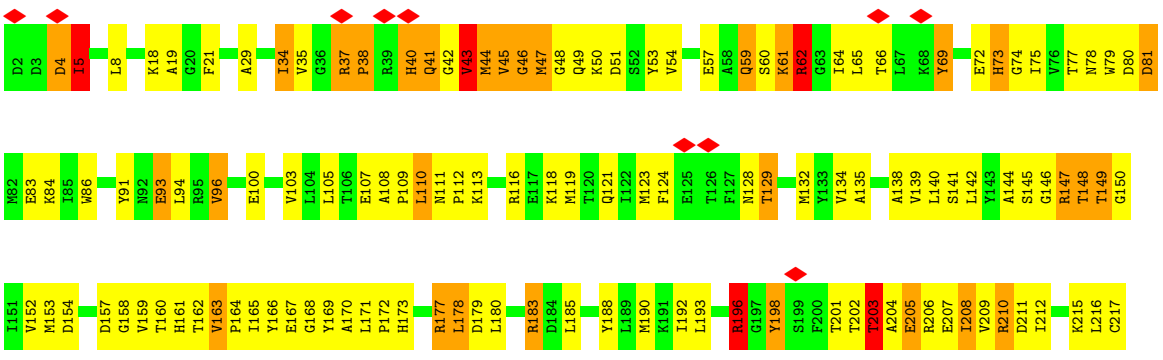
• Molecule 1: Actin, cytoplasmic 1

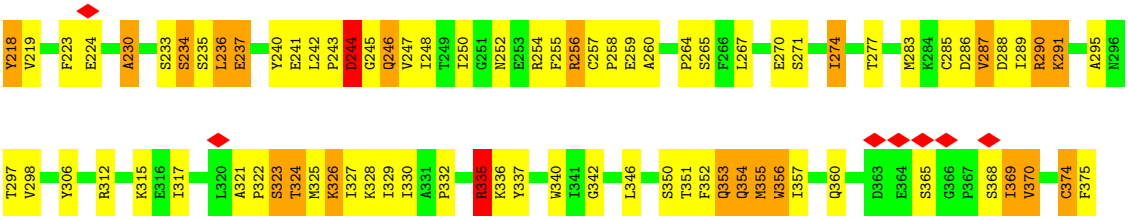
Chain C:



• Molecule 1: Actin, cytoplasmic 1

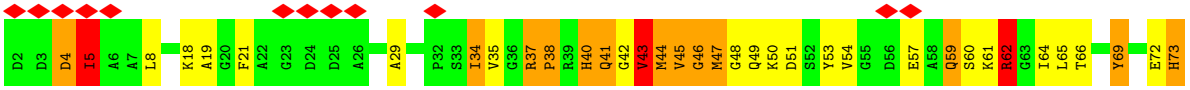
Chain D:

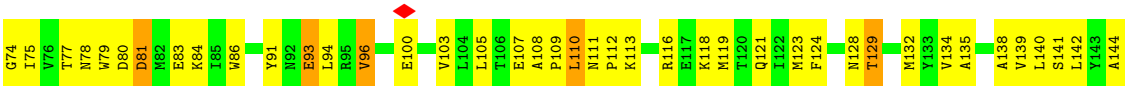


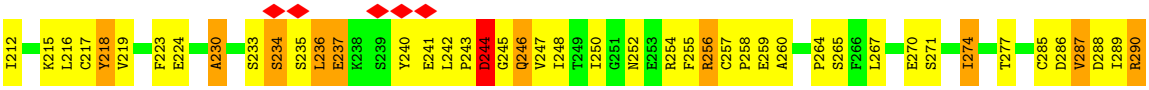


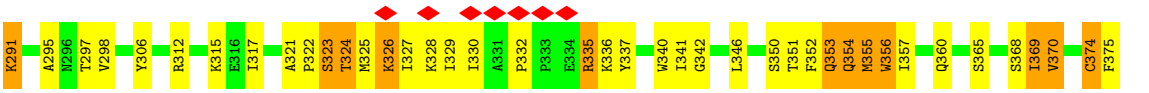
• Molecule 1: Actin, cytoplasmic 1

Chain E:



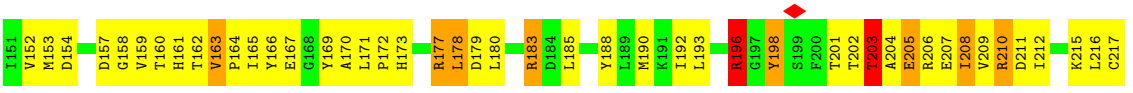


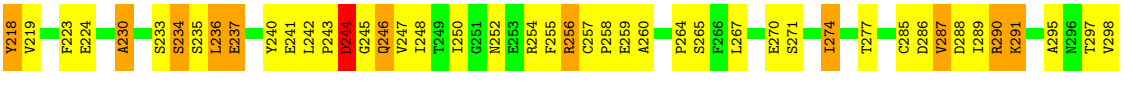




• Molecule 1: Actin, cytoplasmic 1

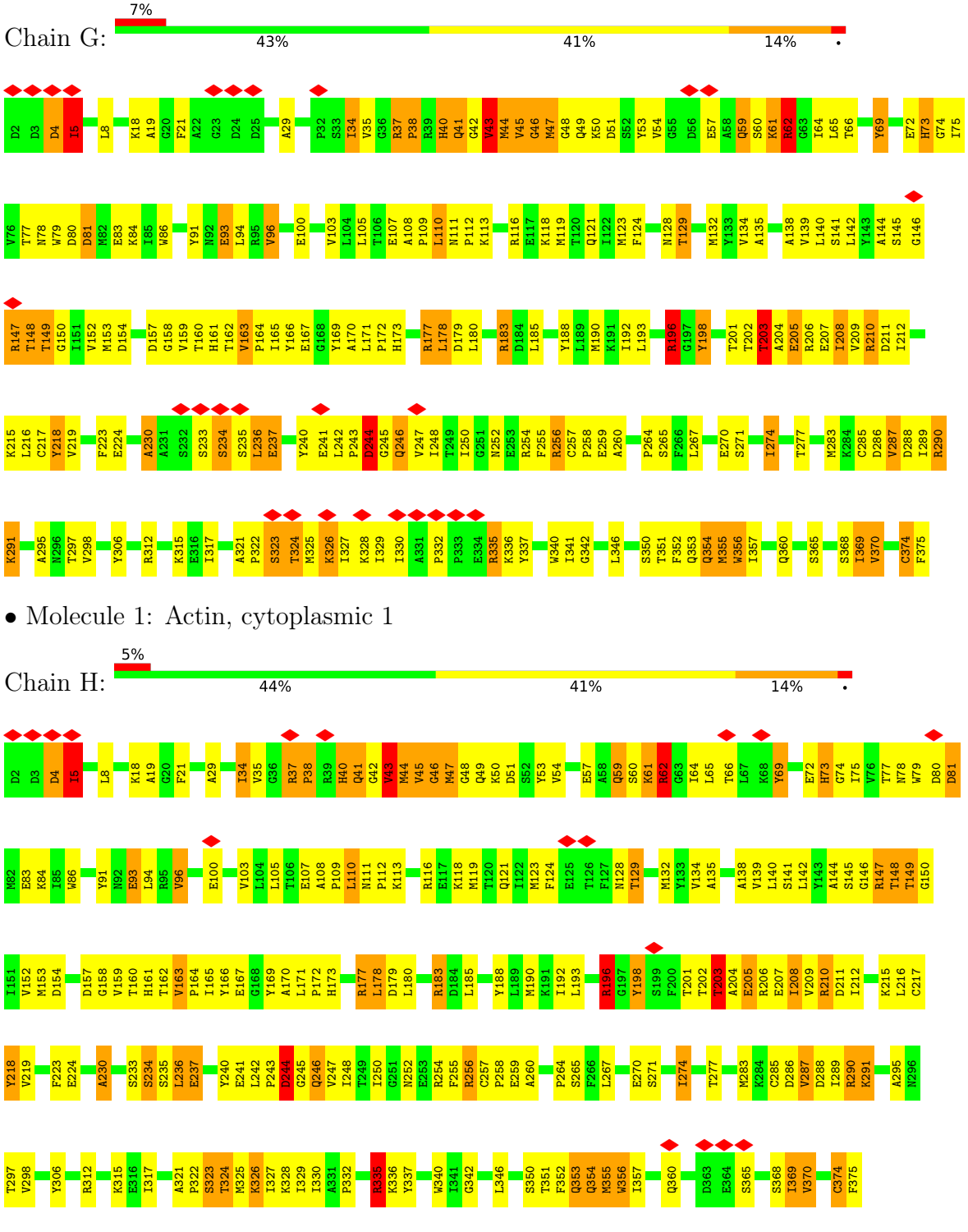
Chain F:





• Molecule 1: Actin, cytoplasmic 1

Chain G:

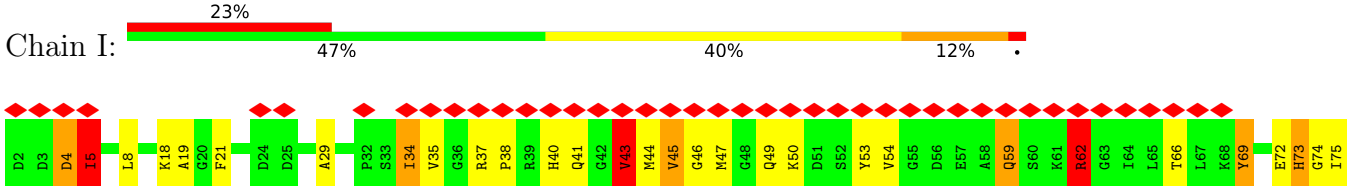


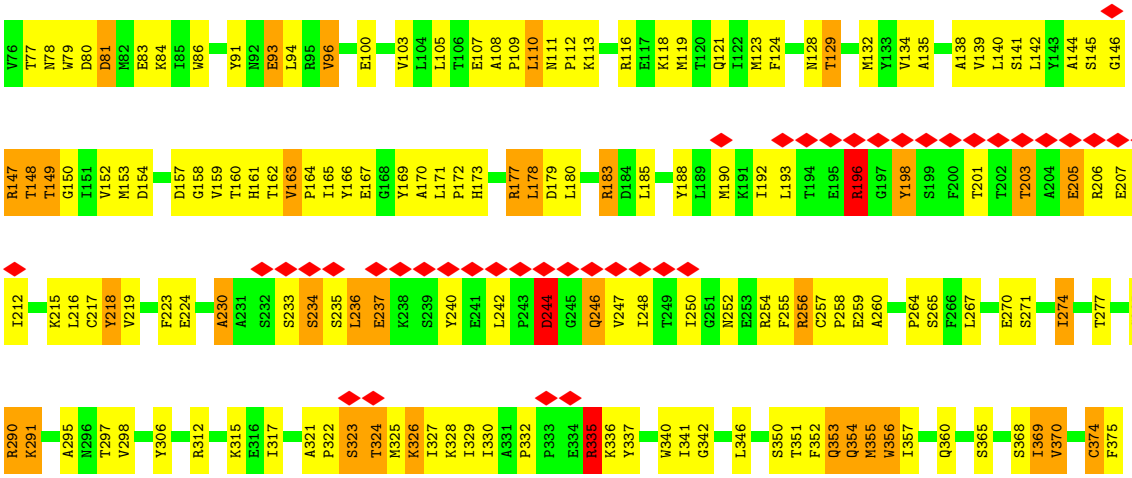
• Molecule 1: Actin, cytoplasmic 1

Chain H:

• Molecule 1: Actin, cytoplasmic 1

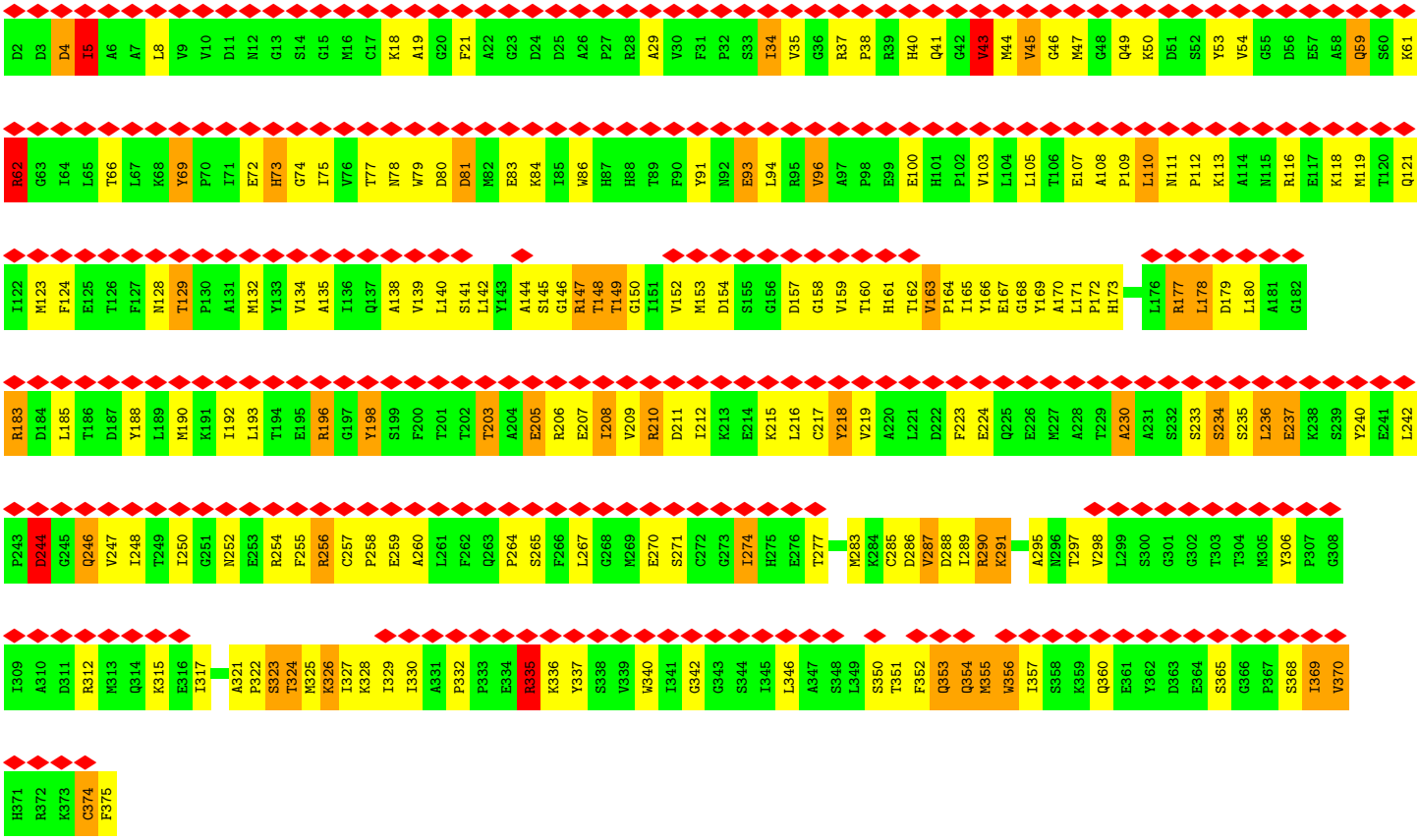
Chain I:





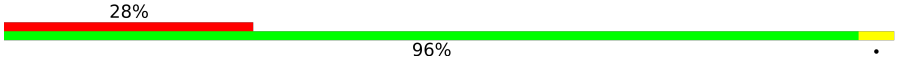
• Molecule 1: Actin, cytoplasmic 1

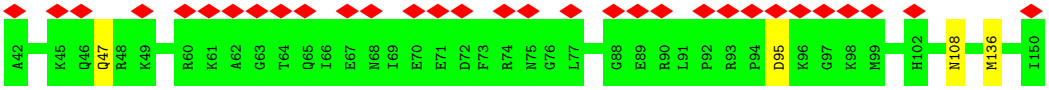
Chain J:



• Molecule 2: Alpha-actinin-3

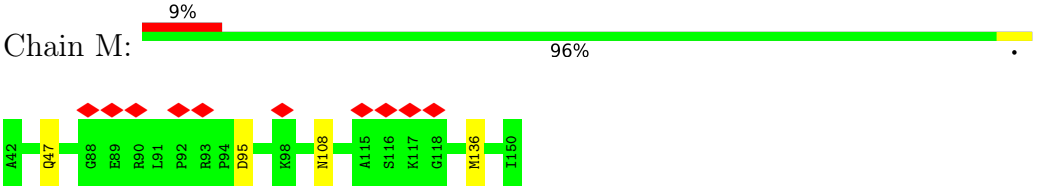
Chain K:





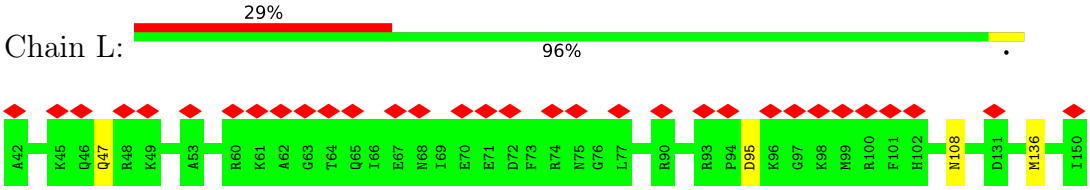
• Molecule 2: Alpha-actinin-3

Chain M:



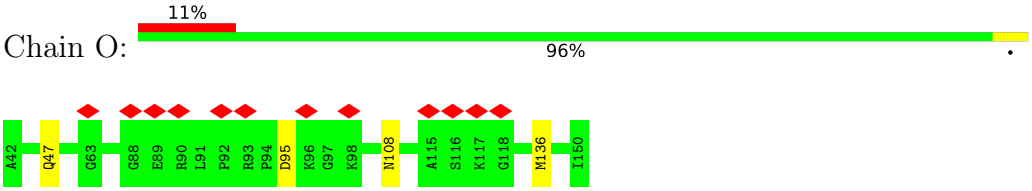
• Molecule 2: Alpha-actinin-3

Chain L:



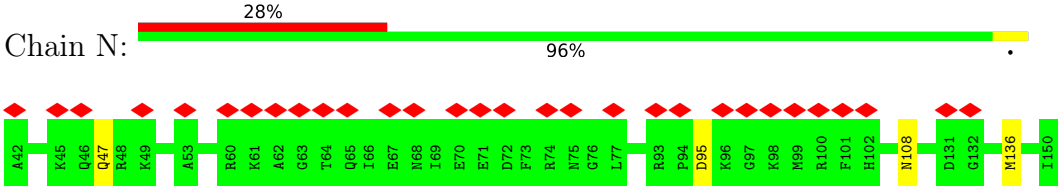
• Molecule 2: Alpha-actinin-3

Chain O:



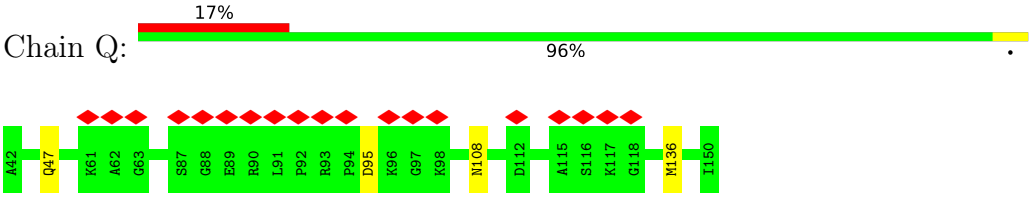
• Molecule 2: Alpha-actinin-3

Chain N:



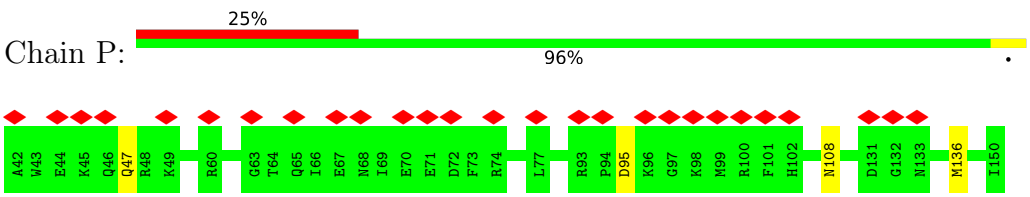
• Molecule 2: Alpha-actinin-3

Chain Q:



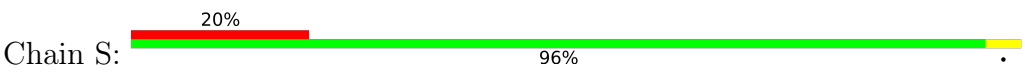
• Molecule 2: Alpha-actinin-3

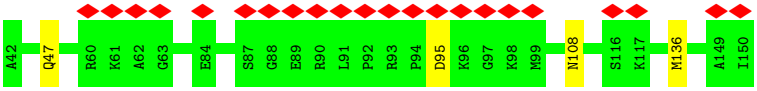
Chain P:



• Molecule 2: Alpha-actinin-3

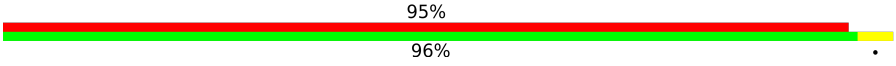
Chain S:

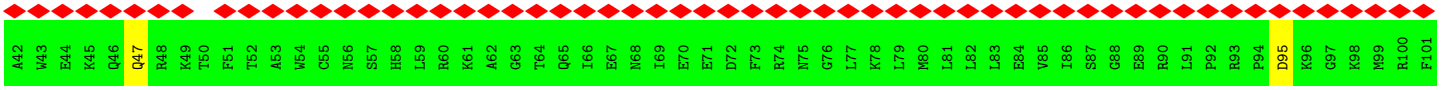


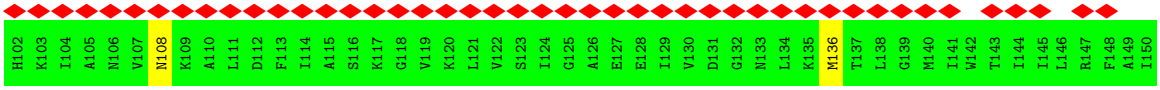


• Molecule 2: Alpha-actinin-3

Chain R:

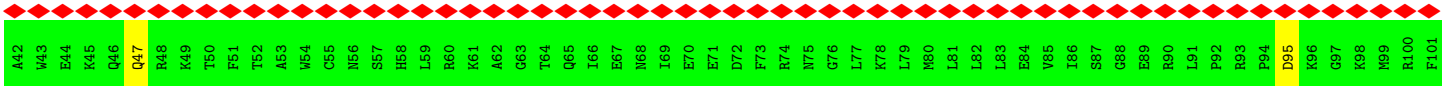


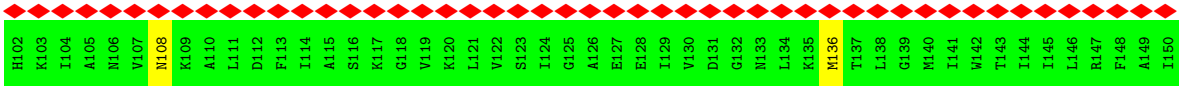




• Molecule 2: Alpha-actinin-3

Chain T:





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	1.01	0/2974	1.95	86/4016 (2.1%)
1	B	1.01	0/2974	1.95	85/4016 (2.1%)
1	C	1.01	0/2974	1.95	88/4016 (2.2%)
1	D	1.01	0/2974	1.95	89/4016 (2.2%)
1	E	1.01	0/2974	1.95	85/4016 (2.1%)
1	F	1.01	0/2974	1.95	86/4016 (2.1%)
1	G	1.01	0/2974	1.95	86/4016 (2.1%)
1	H	1.01	0/2974	1.95	87/4016 (2.2%)
1	I	1.01	0/2974	1.95	86/4016 (2.1%)
1	J	1.01	0/2974	1.95	88/4016 (2.2%)
2	K	0.37	0/888	0.56	0/1190
2	L	0.37	0/888	0.56	0/1190
2	M	0.37	0/888	0.56	0/1190
2	N	0.37	0/888	0.56	0/1190
2	O	0.37	0/888	0.56	0/1190
2	P	0.37	0/888	0.56	0/1190
2	Q	0.37	0/888	0.56	0/1190
2	R	0.37	0/888	0.56	0/1190
2	S	0.37	0/888	0.56	0/1190
2	T	0.37	0/888	0.56	0/1190
All	All	0.90	0/38620	1.73	866/52060 (1.7%)

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

There are no bond length outliers.

All (866) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	356	TRP	CD1-CG-CD2	13.48	117.09	106.30
1	G	356	TRP	CD1-CG-CD2	13.48	117.08	106.30
1	C	356	TRP	CD1-CG-CD2	13.46	117.07	106.30
1	H	356	TRP	CD1-CG-CD2	13.46	117.06	106.30
1	A	356	TRP	CD1-CG-CD2	13.45	117.06	106.30
1	E	356	TRP	CD1-CG-CD2	13.44	117.05	106.30
1	I	356	TRP	CD1-CG-CD2	13.44	117.05	106.30
1	F	356	TRP	CD1-CG-CD2	13.44	117.05	106.30
1	B	356	TRP	CD1-CG-CD2	13.39	117.01	106.30
1	D	356	TRP	CD1-CG-CD2	13.37	116.99	106.30
1	J	5	ILE	CA-C-N	-11.78	91.28	117.20
1	F	5	ILE	CA-C-N	-11.78	91.29	117.20
1	B	5	ILE	CA-C-N	-11.78	91.30	117.20
1	H	5	ILE	CA-C-N	-11.78	91.30	117.20
1	A	5	ILE	CA-C-N	-11.77	91.30	117.20
1	D	5	ILE	CA-C-N	-11.77	91.30	117.20
1	C	5	ILE	CA-C-N	-11.77	91.31	117.20
1	E	5	ILE	CA-C-N	-11.77	91.31	117.20
1	I	5	ILE	CA-C-N	-11.77	91.32	117.20
1	G	5	ILE	CA-C-N	-11.76	91.33	117.20
1	C	210	ARG	NE-CZ-NH1	10.26	125.43	120.30
1	F	210	ARG	NE-CZ-NH1	10.26	125.43	120.30
1	H	210	ARG	NE-CZ-NH1	10.25	125.43	120.30
1	D	210	ARG	NE-CZ-NH1	10.22	125.41	120.30
1	A	210	ARG	NE-CZ-NH1	10.21	125.40	120.30
1	E	210	ARG	NE-CZ-NH1	10.20	125.40	120.30
1	B	210	ARG	NE-CZ-NH1	10.19	125.39	120.30
1	J	210	ARG	NE-CZ-NH1	10.17	125.38	120.30
1	I	210	ARG	NE-CZ-NH1	10.14	125.37	120.30
1	G	210	ARG	NE-CZ-NH1	10.12	125.36	120.30
1	G	356	TRP	CB-CG-CD1	-9.95	114.06	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	356	TRP	CB-CG-CD1	-9.93	114.09	127.00
1	H	356	TRP	CB-CG-CD1	-9.93	114.09	127.00
1	A	356	TRP	CB-CG-CD1	-9.93	114.10	127.00
1	F	356	TRP	CB-CG-CD1	-9.92	114.11	127.00
1	E	356	TRP	CB-CG-CD1	-9.91	114.11	127.00
1	J	356	TRP	CB-CG-CD1	-9.91	114.11	127.00
1	B	356	TRP	CB-CG-CD1	-9.90	114.12	127.00
1	I	356	TRP	CB-CG-CD1	-9.90	114.13	127.00
1	D	356	TRP	CB-CG-CD1	-9.89	114.15	127.00
1	B	132	MET	CA-CB-CG	9.73	129.85	113.30
1	F	132	MET	CA-CB-CG	9.73	129.85	113.30
1	I	132	MET	CA-CB-CG	9.73	129.84	113.30
1	H	132	MET	CA-CB-CG	9.73	129.84	113.30
1	A	132	MET	CA-CB-CG	9.72	129.83	113.30
1	G	132	MET	CA-CB-CG	9.72	129.83	113.30
1	J	132	MET	CA-CB-CG	9.72	129.83	113.30
1	C	132	MET	CA-CB-CG	9.72	129.83	113.30
1	E	132	MET	CA-CB-CG	9.72	129.83	113.30
1	D	132	MET	CA-CB-CG	9.71	129.81	113.30
1	B	290	ARG	NE-CZ-NH1	9.66	125.13	120.30
1	G	290	ARG	NE-CZ-NH1	9.66	125.13	120.30
1	F	290	ARG	NE-CZ-NH1	9.65	125.12	120.30
1	A	290	ARG	NE-CZ-NH1	9.63	125.12	120.30
1	I	290	ARG	NE-CZ-NH1	9.63	125.12	120.30
1	J	290	ARG	NE-CZ-NH1	9.63	125.12	120.30
1	E	290	ARG	NE-CZ-NH1	9.63	125.11	120.30
1	H	290	ARG	NE-CZ-NH1	9.60	125.10	120.30
1	C	290	ARG	NE-CZ-NH1	9.59	125.10	120.30
1	J	356	TRP	CE2-CD2-CG	-9.55	99.66	107.30
1	D	290	ARG	NE-CZ-NH1	9.54	125.07	120.30
1	A	356	TRP	CE2-CD2-CG	-9.50	99.70	107.30
1	C	356	TRP	CE2-CD2-CG	-9.49	99.70	107.30
1	E	356	TRP	CE2-CD2-CG	-9.49	99.70	107.30
1	F	356	TRP	CE2-CD2-CG	-9.49	99.71	107.30
1	I	356	TRP	CE2-CD2-CG	-9.49	99.71	107.30
1	B	356	TRP	CE2-CD2-CG	-9.47	99.72	107.30
1	G	356	TRP	CE2-CD2-CG	-9.47	99.72	107.30
1	H	356	TRP	CE2-CD2-CG	-9.46	99.73	107.30
1	D	356	TRP	CE2-CD2-CG	-9.46	99.73	107.30
1	G	62	ARG	NE-CZ-NH1	9.43	125.02	120.30
1	F	62	ARG	NE-CZ-NH1	9.43	125.01	120.30
1	C	62	ARG	NE-CZ-NH1	9.40	125.00	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	62	ARG	NE-CZ-NH1	9.40	125.00	120.30
1	E	62	ARG	NE-CZ-NH1	9.39	125.00	120.30
1	D	62	ARG	NE-CZ-NH1	9.38	124.99	120.30
1	A	62	ARG	NE-CZ-NH1	9.38	124.99	120.30
1	H	62	ARG	NE-CZ-NH1	9.38	124.99	120.30
1	J	62	ARG	NE-CZ-NH1	9.37	124.99	120.30
1	I	62	ARG	NE-CZ-NH1	9.37	124.98	120.30
1	C	79	TRP	CD1-CG-CD2	9.31	113.75	106.30
1	D	79	TRP	CD1-CG-CD2	9.31	113.75	106.30
1	F	79	TRP	CD1-CG-CD2	9.30	113.74	106.30
1	G	79	TRP	CD1-CG-CD2	9.30	113.74	106.30
1	G	73	HIS	CA-CB-CG	-9.30	97.80	113.60
1	J	73	HIS	CA-CB-CG	-9.29	97.80	113.60
1	H	73	HIS	CA-CB-CG	-9.29	97.81	113.60
1	J	79	TRP	CD1-CG-CD2	9.29	113.73	106.30
1	B	79	TRP	CD1-CG-CD2	9.29	113.73	106.30
1	A	79	TRP	CD1-CG-CD2	9.29	113.73	106.30
1	E	79	TRP	CD1-CG-CD2	9.29	113.73	106.30
1	E	73	HIS	CA-CB-CG	-9.29	97.81	113.60
1	B	73	HIS	CA-CB-CG	-9.28	97.83	113.60
1	F	73	HIS	CA-CB-CG	-9.28	97.83	113.60
1	A	73	HIS	CA-CB-CG	-9.27	97.83	113.60
1	H	79	TRP	CD1-CG-CD2	9.27	113.72	106.30
1	D	73	HIS	CA-CB-CG	-9.27	97.84	113.60
1	C	73	HIS	CA-CB-CG	-9.27	97.84	113.60
1	I	73	HIS	CA-CB-CG	-9.27	97.85	113.60
1	I	79	TRP	CD1-CG-CD2	9.26	113.71	106.30
1	C	62	ARG	NE-CZ-NH2	-9.04	115.78	120.30
1	E	62	ARG	NE-CZ-NH2	-9.04	115.78	120.30
1	D	62	ARG	NE-CZ-NH2	-9.03	115.78	120.30
1	A	62	ARG	NE-CZ-NH2	-9.03	115.79	120.30
1	G	62	ARG	NE-CZ-NH2	-9.02	115.79	120.30
1	F	62	ARG	NE-CZ-NH2	-9.02	115.79	120.30
1	I	62	ARG	NE-CZ-NH2	-9.01	115.80	120.30
1	B	62	ARG	NE-CZ-NH2	-9.00	115.80	120.30
1	J	62	ARG	NE-CZ-NH2	-8.99	115.80	120.30
1	F	116	ARG	NE-CZ-NH1	8.98	124.79	120.30
1	A	116	ARG	NE-CZ-NH1	8.97	124.78	120.30
1	I	116	ARG	NE-CZ-NH1	8.96	124.78	120.30
1	C	116	ARG	NE-CZ-NH1	8.96	124.78	120.30
1	J	116	ARG	NE-CZ-NH1	8.96	124.78	120.30
1	D	116	ARG	NE-CZ-NH1	8.95	124.78	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	116	ARG	NE-CZ-NH1	8.94	124.77	120.30
1	H	62	ARG	NE-CZ-NH2	-8.94	115.83	120.30
1	G	196	ARG	NE-CZ-NH1	8.93	124.76	120.30
1	G	116	ARG	NE-CZ-NH1	8.91	124.75	120.30
1	B	116	ARG	NE-CZ-NH1	8.90	124.75	120.30
1	F	196	ARG	NE-CZ-NH1	8.90	124.75	120.30
1	H	116	ARG	NE-CZ-NH1	8.90	124.75	120.30
1	I	196	ARG	NE-CZ-NH1	8.90	124.75	120.30
1	G	356	TRP	CG-CD1-NE1	-8.88	101.22	110.10
1	H	196	ARG	NE-CZ-NH1	8.88	124.74	120.30
1	D	196	ARG	NE-CZ-NH1	8.87	124.74	120.30
1	F	356	TRP	CG-CD1-NE1	-8.86	101.25	110.10
1	C	356	TRP	CG-CD1-NE1	-8.85	101.25	110.10
1	B	196	ARG	NE-CZ-NH1	8.85	124.72	120.30
1	J	196	ARG	NE-CZ-NH1	8.85	124.72	120.30
1	A	196	ARG	NE-CZ-NH1	8.84	124.72	120.30
1	E	196	ARG	NE-CZ-NH1	8.84	124.72	120.30
1	J	356	TRP	CG-CD1-NE1	-8.84	101.26	110.10
1	H	356	TRP	CG-CD1-NE1	-8.84	101.26	110.10
1	E	356	TRP	CG-CD1-NE1	-8.82	101.28	110.10
1	H	356	TRP	CG-CD2-CE3	8.82	141.84	133.90
1	C	196	ARG	NE-CZ-NH1	8.82	124.71	120.30
1	I	356	TRP	CG-CD1-NE1	-8.82	101.28	110.10
1	I	356	TRP	CG-CD2-CE3	8.81	141.83	133.90
1	J	356	TRP	CG-CD2-CE3	8.81	141.83	133.90
1	A	356	TRP	CG-CD1-NE1	-8.80	101.30	110.10
1	D	356	TRP	CG-CD1-NE1	-8.80	101.30	110.10
1	E	356	TRP	CG-CD2-CE3	8.80	141.82	133.90
1	A	356	TRP	CG-CD2-CE3	8.80	141.82	133.90
1	F	356	TRP	CG-CD2-CE3	8.80	141.82	133.90
1	G	356	TRP	CG-CD2-CE3	8.80	141.82	133.90
1	B	356	TRP	CG-CD1-NE1	-8.78	101.32	110.10
1	B	356	TRP	CG-CD2-CE3	8.76	141.78	133.90
1	C	356	TRP	CG-CD2-CE3	8.76	141.78	133.90
1	D	356	TRP	CG-CD2-CE3	8.74	141.77	133.90
1	B	4	ASP	CA-C-N	-8.68	98.10	117.20
1	J	4	ASP	CA-C-N	-8.68	98.10	117.20
1	G	4	ASP	CA-C-N	-8.68	98.11	117.20
1	A	4	ASP	CA-C-N	-8.68	98.11	117.20
1	C	4	ASP	CA-C-N	-8.68	98.12	117.20
1	I	4	ASP	CA-C-N	-8.68	98.11	117.20
1	E	4	ASP	CA-C-N	-8.67	98.12	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	4	ASP	CA-C-N	-8.67	98.13	117.20
1	D	4	ASP	CA-C-N	-8.66	98.15	117.20
1	H	4	ASP	CA-C-N	-8.66	98.15	117.20
1	I	86	TRP	CE2-CD2-CG	-8.10	100.82	107.30
1	A	256	ARG	NE-CZ-NH1	8.10	124.35	120.30
1	C	86	TRP	CE2-CD2-CG	-8.09	100.83	107.30
1	F	256	ARG	NE-CZ-NH1	8.08	124.34	120.30
1	J	256	ARG	NE-CZ-NH1	8.08	124.34	120.30
1	J	86	TRP	CE2-CD2-CG	-8.08	100.84	107.30
1	B	256	ARG	NE-CZ-NH1	8.07	124.33	120.30
1	E	86	TRP	CE2-CD2-CG	-8.06	100.85	107.30
1	C	256	ARG	NE-CZ-NH1	8.06	124.33	120.30
1	G	256	ARG	NE-CZ-NH1	8.05	124.33	120.30
1	E	256	ARG	NE-CZ-NH1	8.05	124.33	120.30
1	I	256	ARG	NE-CZ-NH1	8.05	124.32	120.30
1	A	86	TRP	CE2-CD2-CG	-8.05	100.86	107.30
1	D	256	ARG	NE-CZ-NH1	8.04	124.32	120.30
1	B	86	TRP	CE2-CD2-CG	-8.04	100.87	107.30
1	F	86	TRP	CE2-CD2-CG	-8.04	100.87	107.30
1	H	256	ARG	NE-CZ-NH1	8.04	124.32	120.30
1	D	86	TRP	CE2-CD2-CG	-8.03	100.87	107.30
1	G	86	TRP	CE2-CD2-CG	-8.03	100.88	107.30
1	H	86	TRP	CE2-CD2-CG	-8.03	100.88	107.30
1	D	79	TRP	CE2-CD2-CG	-7.99	100.91	107.30
1	C	79	TRP	CE2-CD2-CG	-7.99	100.91	107.30
1	J	79	TRP	CE2-CD2-CG	-7.98	100.91	107.30
1	G	79	TRP	CE2-CD2-CG	-7.98	100.92	107.30
1	F	79	TRP	CE2-CD2-CG	-7.96	100.93	107.30
1	E	79	TRP	CE2-CD2-CG	-7.96	100.93	107.30
1	A	79	TRP	CE2-CD2-CG	-7.95	100.94	107.30
1	B	79	TRP	CE2-CD2-CG	-7.94	100.95	107.30
1	H	79	TRP	CE2-CD2-CG	-7.94	100.95	107.30
1	I	79	TRP	CE2-CD2-CG	-7.93	100.95	107.30
1	G	190	MET	CA-CB-CG	7.86	126.66	113.30
1	I	190	MET	CA-CB-CG	7.85	126.65	113.30
1	F	190	MET	CA-CB-CG	7.85	126.64	113.30
1	E	190	MET	CA-CB-CG	7.85	126.64	113.30
1	B	190	MET	CA-CB-CG	7.84	126.63	113.30
1	C	190	MET	CA-CB-CG	7.84	126.63	113.30
1	J	190	MET	CA-CB-CG	7.84	126.63	113.30
1	A	190	MET	CA-CB-CG	7.83	126.61	113.30
1	D	190	MET	CA-CB-CG	7.83	126.60	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	190	MET	CA-CB-CG	7.82	126.60	113.30
1	A	217	CYS	CA-CB-SG	-7.74	100.08	114.00
1	C	217	CYS	CA-CB-SG	-7.74	100.08	114.00
1	I	217	CYS	CA-CB-SG	-7.74	100.08	114.00
1	G	217	CYS	CA-CB-SG	-7.73	100.08	114.00
1	H	217	CYS	CA-CB-SG	-7.73	100.09	114.00
1	B	217	CYS	CA-CB-SG	-7.72	100.10	114.00
1	E	217	CYS	CA-CB-SG	-7.72	100.09	114.00
1	F	217	CYS	CA-CB-SG	-7.72	100.10	114.00
1	J	217	CYS	CA-CB-SG	-7.72	100.11	114.00
1	D	217	CYS	CA-CB-SG	-7.71	100.12	114.00
1	I	375	PHE	N-CA-C	7.66	131.69	111.00
1	J	375	PHE	N-CA-C	7.66	131.68	111.00
1	A	375	PHE	N-CA-C	7.66	131.67	111.00
1	F	375	PHE	N-CA-C	7.66	131.67	111.00
1	E	375	PHE	N-CA-C	7.65	131.67	111.00
1	D	375	PHE	N-CA-C	7.65	131.66	111.00
1	B	375	PHE	N-CA-C	7.65	131.66	111.00
1	G	375	PHE	N-CA-C	7.65	131.66	111.00
1	G	340	TRP	CD1-CG-CD2	7.64	112.42	106.30
1	H	375	PHE	N-CA-C	7.64	131.63	111.00
1	C	340	TRP	CD1-CG-CD2	7.64	112.41	106.30
1	C	375	PHE	N-CA-C	7.63	131.61	111.00
1	D	340	TRP	CD1-CG-CD2	7.60	112.38	106.30
1	J	340	TRP	CD1-CG-CD2	7.60	112.38	106.30
1	E	340	TRP	CD1-CG-CD2	7.59	112.37	106.30
1	H	340	TRP	CD1-CG-CD2	7.58	112.36	106.30
1	I	69	TYR	CB-CG-CD2	-7.58	116.45	121.00
1	D	69	TYR	CB-CG-CD2	-7.57	116.46	121.00
1	C	69	TYR	CB-CG-CD2	-7.57	116.46	121.00
1	I	340	TRP	CD1-CG-CD2	7.55	112.34	106.30
1	H	69	TYR	CB-CG-CD2	-7.54	116.47	121.00
1	G	69	TYR	CB-CG-CD2	-7.54	116.48	121.00
1	B	69	TYR	CB-CG-CD2	-7.54	116.48	121.00
1	B	340	TRP	CD1-CG-CD2	7.53	112.32	106.30
1	A	340	TRP	CD1-CG-CD2	7.53	112.32	106.30
1	E	69	TYR	CB-CG-CD2	-7.53	116.48	121.00
1	F	340	TRP	CD1-CG-CD2	7.51	112.31	106.30
1	J	69	TYR	CB-CG-CD2	-7.51	116.49	121.00
1	D	183	ARG	NE-CZ-NH1	7.50	124.05	120.30
1	I	183	ARG	NE-CZ-NH1	7.50	124.05	120.30
1	H	183	ARG	NE-CZ-NH1	7.49	124.05	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	183	ARG	NE-CZ-NH1	7.49	124.05	120.30
1	F	69	TYR	CB-CG-CD2	-7.48	116.51	121.00
1	E	183	ARG	NE-CZ-NH1	7.46	124.03	120.30
1	F	183	ARG	NE-CZ-NH1	7.46	124.03	120.30
1	I	86	TRP	CD1-CG-CD2	7.46	112.27	106.30
1	D	37	ARG	NE-CZ-NH1	7.46	124.03	120.30
1	H	188	TYR	CB-CG-CD2	-7.46	116.52	121.00
1	A	69	TYR	CB-CG-CD2	-7.46	116.53	121.00
1	B	86	TRP	CD1-CG-CD2	7.42	112.24	106.30
1	E	86	TRP	CD1-CG-CD2	7.42	112.24	106.30
1	I	188	TYR	CB-CG-CD2	-7.42	116.55	121.00
1	J	183	ARG	NE-CZ-NH1	7.42	124.01	120.30
1	A	188	TYR	CB-CG-CD2	-7.41	116.55	121.00
1	B	188	TYR	CB-CG-CD2	-7.41	116.55	121.00
1	C	188	TYR	CB-CG-CD2	-7.41	116.55	121.00
1	H	86	TRP	CD1-CG-CD2	7.41	112.23	106.30
1	G	37	ARG	NE-CZ-NH1	7.41	124.00	120.30
1	A	86	TRP	CD1-CG-CD2	7.41	112.22	106.30
1	D	86	TRP	CD1-CG-CD2	7.40	112.22	106.30
1	C	86	TRP	CD1-CG-CD2	7.40	112.22	106.30
1	F	86	TRP	CD1-CG-CD2	7.40	112.22	106.30
1	F	188	TYR	CB-CG-CD2	-7.40	116.56	121.00
1	J	86	TRP	CD1-CG-CD2	7.40	112.22	106.30
1	G	86	TRP	CD1-CG-CD2	7.39	112.21	106.30
1	A	183	ARG	NE-CZ-NH1	7.39	124.00	120.30
1	B	183	ARG	NE-CZ-NH1	7.39	124.00	120.30
1	H	37	ARG	NE-CZ-NH1	7.39	123.99	120.30
1	E	188	TYR	CB-CG-CD2	-7.38	116.57	121.00
1	B	37	ARG	NE-CZ-NH1	7.38	123.99	120.30
1	C	183	ARG	NE-CZ-NH1	7.38	123.99	120.30
1	D	188	TYR	CB-CG-CD2	-7.37	116.58	121.00
1	J	188	TYR	CB-CG-CD2	-7.36	116.58	121.00
1	C	37	ARG	NE-CZ-NH1	7.36	123.98	120.30
1	F	37	ARG	NE-CZ-NH1	7.35	123.97	120.30
1	G	188	TYR	CB-CG-CD2	-7.34	116.60	121.00
1	E	37	ARG	NE-CZ-NH1	7.34	123.97	120.30
1	J	37	ARG	NE-CZ-NH1	7.33	123.96	120.30
1	I	37	ARG	NE-CZ-NH1	7.32	123.96	120.30
1	A	37	ARG	NE-CZ-NH1	7.28	123.94	120.30
1	I	86	TRP	CG-CD2-CE3	7.08	140.27	133.90
1	F	86	TRP	CG-CD2-CE3	7.06	140.26	133.90
1	B	86	TRP	CG-CD2-CE3	7.05	140.25	133.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	86	TRP	CG-CD2-CE3	7.05	140.25	133.90
1	D	370	VAL	CB-CA-C	-7.05	98.00	111.40
1	C	86	TRP	CG-CD2-CE3	7.05	140.25	133.90
1	A	370	VAL	CB-CA-C	-7.05	98.00	111.40
1	I	370	VAL	CB-CA-C	-7.05	98.01	111.40
1	H	370	VAL	CB-CA-C	-7.04	98.02	111.40
1	C	370	VAL	CB-CA-C	-7.04	98.03	111.40
1	A	4	ASP	N-CA-C	-7.04	92.00	111.00
1	D	4	ASP	N-CA-C	-7.03	92.01	111.00
1	E	370	VAL	CB-CA-C	-7.03	98.04	111.40
1	G	4	ASP	N-CA-C	-7.03	92.01	111.00
1	E	4	ASP	N-CA-C	-7.03	92.02	111.00
1	G	370	VAL	CB-CA-C	-7.03	98.04	111.40
1	J	86	TRP	CG-CD2-CE3	7.03	140.23	133.90
1	J	370	VAL	CB-CA-C	-7.03	98.04	111.40
1	C	4	ASP	N-CA-C	-7.03	92.02	111.00
1	D	86	TRP	CG-CD2-CE3	7.03	140.23	133.90
1	I	4	ASP	N-CA-C	-7.03	92.02	111.00
1	B	370	VAL	CB-CA-C	-7.03	98.05	111.40
1	F	4	ASP	N-CA-C	-7.03	92.02	111.00
1	H	4	ASP	N-CA-C	-7.03	92.03	111.00
1	B	4	ASP	N-CA-C	-7.03	92.03	111.00
1	H	86	TRP	CG-CD2-CE3	7.03	140.22	133.90
1	J	4	ASP	N-CA-C	-7.02	92.04	111.00
1	F	370	VAL	CB-CA-C	-7.02	98.06	111.40
1	G	86	TRP	CG-CD2-CE3	7.02	140.22	133.90
1	A	86	TRP	CG-CD2-CE3	7.01	140.21	133.90
1	C	218	TYR	CB-CG-CD2	-6.93	116.84	121.00
1	J	218	TYR	CB-CG-CD2	-6.89	116.87	121.00
1	E	218	TYR	CB-CG-CD2	-6.88	116.87	121.00
1	H	218	TYR	CB-CG-CD2	-6.88	116.87	121.00
1	F	218	TYR	CB-CG-CD2	-6.87	116.88	121.00
1	I	218	TYR	CB-CG-CD2	-6.87	116.88	121.00
1	A	218	TYR	CB-CG-CD2	-6.86	116.88	121.00
1	D	218	TYR	CB-CG-CD2	-6.86	116.89	121.00
1	G	218	TYR	CB-CG-CD2	-6.84	116.89	121.00
1	B	218	TYR	CB-CG-CD2	-6.83	116.91	121.00
1	D	47	MET	CA-CB-CG	6.77	124.81	113.30
1	B	47	MET	CA-CB-CG	6.77	124.81	113.30
1	E	47	MET	CA-CB-CG	6.76	124.80	113.30
1	C	47	MET	CA-CB-CG	6.76	124.79	113.30
1	I	47	MET	CA-CB-CG	6.76	124.80	113.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	47	MET	CA-CB-CG	6.76	124.79	113.30
1	G	47	MET	CA-CB-CG	6.75	124.78	113.30
1	A	47	MET	CA-CB-CG	6.75	124.78	113.30
1	F	47	MET	CA-CB-CG	6.75	124.77	113.30
1	H	47	MET	CA-CB-CG	6.75	124.77	113.30
1	J	163	VAL	CG1-CB-CG2	-6.71	100.16	110.90
1	C	163	VAL	CG1-CB-CG2	-6.70	100.17	110.90
1	D	163	VAL	CG1-CB-CG2	-6.70	100.18	110.90
1	G	163	VAL	CG1-CB-CG2	-6.70	100.19	110.90
1	E	163	VAL	CG1-CB-CG2	-6.70	100.19	110.90
1	B	163	VAL	CG1-CB-CG2	-6.69	100.20	110.90
1	A	163	VAL	CG1-CB-CG2	-6.68	100.21	110.90
1	I	163	VAL	CG1-CB-CG2	-6.68	100.21	110.90
1	G	230	ALA	N-CA-C	-6.68	92.96	111.00
1	B	230	ALA	N-CA-C	-6.68	92.96	111.00
1	H	163	VAL	CG1-CB-CG2	-6.68	100.21	110.90
1	F	163	VAL	CG1-CB-CG2	-6.68	100.22	110.90
1	D	230	ALA	N-CA-C	-6.67	93.00	111.00
1	E	230	ALA	N-CA-C	-6.67	93.00	111.00
1	H	230	ALA	N-CA-C	-6.67	93.00	111.00
1	J	230	ALA	N-CA-C	-6.67	93.00	111.00
1	A	230	ALA	N-CA-C	-6.66	93.01	111.00
1	C	230	ALA	N-CA-C	-6.66	93.01	111.00
1	I	230	ALA	N-CA-C	-6.66	93.01	111.00
1	F	230	ALA	N-CA-C	-6.66	93.02	111.00
1	G	132	MET	CG-SD-CE	-6.61	89.62	100.20
1	D	132	MET	CG-SD-CE	-6.60	89.64	100.20
1	H	132	MET	CG-SD-CE	-6.60	89.64	100.20
1	A	132	MET	CG-SD-CE	-6.60	89.64	100.20
1	I	132	MET	CG-SD-CE	-6.60	89.64	100.20
1	B	132	MET	CG-SD-CE	-6.60	89.65	100.20
1	C	132	MET	CG-SD-CE	-6.59	89.65	100.20
1	E	132	MET	CG-SD-CE	-6.59	89.66	100.20
1	F	132	MET	CG-SD-CE	-6.58	89.67	100.20
1	J	132	MET	CG-SD-CE	-6.58	89.67	100.20
1	A	5	ILE	O-C-N	6.52	133.13	122.70
1	B	5	ILE	O-C-N	6.52	133.13	122.70
1	D	5	ILE	O-C-N	6.52	133.13	122.70
1	E	5	ILE	O-C-N	6.51	133.12	122.70
1	F	5	ILE	O-C-N	6.51	133.11	122.70
1	C	5	ILE	O-C-N	6.50	133.10	122.70
1	J	5	ILE	O-C-N	6.50	133.10	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	5	ILE	O-C-N	6.50	133.09	122.70
1	G	5	ILE	O-C-N	6.49	133.09	122.70
1	H	5	ILE	O-C-N	6.49	133.09	122.70
1	J	91	TYR	CB-CG-CD2	-6.49	117.11	121.00
1	C	91	TYR	CB-CG-CD2	-6.45	117.13	121.00
1	E	91	TYR	CB-CG-CD2	-6.42	117.15	121.00
1	F	91	TYR	CB-CG-CD2	-6.41	117.16	121.00
1	A	91	TYR	CB-CG-CD2	-6.40	117.16	121.00
1	G	91	TYR	CB-CG-CD2	-6.38	117.17	121.00
1	D	91	TYR	CB-CG-CD2	-6.37	117.18	121.00
1	B	91	TYR	CB-CG-CD2	-6.36	117.18	121.00
1	I	91	TYR	CB-CG-CD2	-6.36	117.18	121.00
1	H	91	TYR	CB-CG-CD2	-6.35	117.19	121.00
1	F	5	ILE	CA-CB-CG1	-6.26	99.10	111.00
1	A	5	ILE	CA-CB-CG1	-6.26	99.10	111.00
1	J	5	ILE	CA-CB-CG1	-6.26	99.11	111.00
1	D	5	ILE	CA-CB-CG1	-6.25	99.12	111.00
1	E	5	ILE	CA-CB-CG1	-6.25	99.12	111.00
1	C	5	ILE	CA-CB-CG1	-6.25	99.12	111.00
1	I	5	ILE	CA-CB-CG1	-6.25	99.13	111.00
1	B	5	ILE	CA-CB-CG1	-6.25	99.13	111.00
1	G	5	ILE	CA-CB-CG1	-6.25	99.13	111.00
1	H	5	ILE	CA-CB-CG1	-6.24	99.14	111.00
1	J	43	VAL	CA-CB-CG2	-6.21	101.59	110.90
1	H	62	ARG	CA-CB-CG	6.21	127.05	113.40
1	B	43	VAL	CA-CB-CG2	-6.20	101.59	110.90
1	D	62	ARG	CA-CB-CG	6.20	127.03	113.40
1	I	43	VAL	CA-CB-CG2	-6.20	101.61	110.90
1	J	62	ARG	CA-CB-CG	6.20	127.03	113.40
1	A	43	VAL	CA-CB-CG2	-6.19	101.61	110.90
1	F	43	VAL	CA-CB-CG2	-6.19	101.61	110.90
1	E	43	VAL	CA-CB-CG2	-6.19	101.61	110.90
1	F	62	ARG	CA-CB-CG	6.19	127.02	113.40
1	H	43	VAL	CA-CB-CG2	-6.19	101.61	110.90
1	C	43	VAL	CA-CB-CG2	-6.19	101.62	110.90
1	I	62	ARG	CA-CB-CG	6.19	127.02	113.40
1	E	62	ARG	CA-CB-CG	6.19	127.01	113.40
1	A	62	ARG	CA-CB-CG	6.18	127.00	113.40
1	B	62	ARG	CA-CB-CG	6.18	127.00	113.40
1	G	43	VAL	CA-CB-CG2	-6.18	101.63	110.90
1	D	43	VAL	CA-CB-CG2	-6.18	101.63	110.90
1	C	62	ARG	CA-CB-CG	6.18	126.99	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	62	ARG	CA-CB-CG	6.17	126.98	113.40
1	D	315	LYS	CA-CB-CG	6.13	126.89	113.40
1	H	315	LYS	CA-CB-CG	6.13	126.89	113.40
1	F	315	LYS	CA-CB-CG	6.13	126.89	113.40
1	E	315	LYS	CA-CB-CG	6.13	126.88	113.40
1	G	315	LYS	CA-CB-CG	6.12	126.87	113.40
1	B	315	LYS	CA-CB-CG	6.12	126.86	113.40
1	A	315	LYS	CA-CB-CG	6.12	126.86	113.40
1	I	315	LYS	CA-CB-CG	6.12	126.86	113.40
1	J	315	LYS	CA-CB-CG	6.12	126.86	113.40
1	C	315	LYS	CA-CB-CG	6.12	126.85	113.40
1	B	147	ARG	NE-CZ-NH2	-6.03	117.29	120.30
1	H	340	TRP	CE2-CD2-CG	-6.03	102.48	107.30
1	B	340	TRP	CE2-CD2-CG	-6.00	102.50	107.30
1	G	340	TRP	CE2-CD2-CG	-6.00	102.50	107.30
1	J	340	TRP	CE2-CD2-CG	-6.00	102.50	107.30
1	E	340	TRP	CE2-CD2-CG	-6.00	102.50	107.30
1	C	340	TRP	CE2-CD2-CG	-5.99	102.51	107.30
1	D	340	TRP	CE2-CD2-CG	-5.99	102.51	107.30
1	I	147	ARG	NE-CZ-NH2	-5.98	117.31	120.30
1	A	86	TRP	CB-CG-CD1	-5.97	119.25	127.00
1	B	86	TRP	CB-CG-CD1	-5.96	119.25	127.00
1	E	147	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	D	86	TRP	CB-CG-CD1	-5.96	119.25	127.00
1	A	147	ARG	NE-CZ-NH2	-5.96	117.32	120.30
1	A	340	TRP	CE2-CD2-CG	-5.96	102.53	107.30
1	I	340	TRP	CE2-CD2-CG	-5.96	102.54	107.30
1	F	129	THR	CA-CB-CG2	-5.95	104.06	112.40
1	G	147	ARG	NE-CZ-NH2	-5.95	117.32	120.30
1	F	340	TRP	CE2-CD2-CG	-5.95	102.54	107.30
1	H	86	TRP	CB-CG-CD1	-5.95	119.26	127.00
1	D	147	ARG	NE-CZ-NH2	-5.95	117.33	120.30
1	J	147	ARG	NE-CZ-NH2	-5.95	117.33	120.30
1	D	129	THR	CA-CB-CG2	-5.95	104.08	112.40
1	E	86	TRP	CB-CG-CD1	-5.95	119.27	127.00
1	H	147	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	F	147	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	J	129	THR	CA-CB-CG2	-5.94	104.08	112.40
1	I	86	TRP	CB-CG-CD1	-5.94	119.28	127.00
1	F	235	SER	N-CA-CB	-5.94	101.59	110.50
1	E	129	THR	CA-CB-CG2	-5.94	104.09	112.40
1	G	86	TRP	CB-CG-CD1	-5.93	119.29	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	147	ARG	NE-CZ-NH2	-5.93	117.33	120.30
1	B	129	THR	CA-CB-CG2	-5.93	104.10	112.40
1	A	129	THR	CA-CB-CG2	-5.93	104.10	112.40
1	C	86	TRP	CB-CG-CD1	-5.93	119.29	127.00
1	G	129	THR	CA-CB-CG2	-5.93	104.10	112.40
1	J	86	TRP	CB-CG-CD1	-5.93	119.29	127.00
1	C	129	THR	CA-CB-CG2	-5.92	104.11	112.40
1	F	86	TRP	CB-CG-CD1	-5.92	119.30	127.00
1	I	129	THR	CA-CB-CG2	-5.92	104.11	112.40
1	G	235	SER	N-CA-CB	-5.91	101.64	110.50
1	H	129	THR	CA-CB-CG2	-5.91	104.13	112.40
1	J	235	SER	N-CA-CB	-5.91	101.64	110.50
1	H	224	GLU	CA-CB-CG	5.90	126.39	113.40
1	F	224	GLU	CA-CB-CG	5.90	126.39	113.40
1	H	235	SER	N-CA-CB	-5.90	101.64	110.50
1	I	235	SER	N-CA-CB	-5.90	101.65	110.50
1	C	224	GLU	CA-CB-CG	5.90	126.38	113.40
1	C	235	SER	N-CA-CB	-5.90	101.66	110.50
1	E	235	SER	N-CA-CB	-5.90	101.66	110.50
1	I	224	GLU	CA-CB-CG	5.89	126.36	113.40
1	E	224	GLU	CA-CB-CG	5.89	126.36	113.40
1	B	235	SER	N-CA-CB	-5.89	101.67	110.50
1	D	224	GLU	CA-CB-CG	5.89	126.36	113.40
1	A	224	GLU	CA-CB-CG	5.88	126.34	113.40
1	C	277	THR	CA-CB-CG2	5.88	120.64	112.40
1	H	277	THR	CA-CB-CG2	5.88	120.64	112.40
1	J	277	THR	CA-CB-CG2	5.88	120.64	112.40
1	A	235	SER	N-CA-CB	-5.88	101.68	110.50
1	G	224	GLU	CA-CB-CG	5.88	126.34	113.40
1	A	277	THR	CA-CB-CG2	5.88	120.63	112.40
1	F	277	THR	CA-CB-CG2	5.88	120.63	112.40
1	G	277	THR	CA-CB-CG2	5.88	120.63	112.40
1	I	277	THR	CA-CB-CG2	5.88	120.63	112.40
1	D	277	THR	CA-CB-CG2	5.88	120.62	112.40
1	F	147	ARG	CB-CG-CD	-5.88	96.32	111.60
1	J	224	GLU	CA-CB-CG	5.88	126.33	113.40
1	H	147	ARG	CB-CG-CD	-5.87	96.33	111.60
1	B	224	GLU	CA-CB-CG	5.87	126.32	113.40
1	C	147	ARG	CB-CG-CD	-5.87	96.33	111.60
1	D	147	ARG	CB-CG-CD	-5.87	96.34	111.60
1	D	235	SER	N-CA-CB	-5.87	101.69	110.50
1	E	277	THR	CA-CB-CG2	5.87	120.62	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	277	THR	CA-CB-CG2	5.87	120.62	112.40
1	G	147	ARG	CB-CG-CD	-5.87	96.34	111.60
1	I	147	ARG	CB-CG-CD	-5.87	96.34	111.60
1	E	147	ARG	CB-CG-CD	-5.87	96.35	111.60
1	A	147	ARG	CB-CG-CD	-5.86	96.35	111.60
1	B	147	ARG	CB-CG-CD	-5.86	96.36	111.60
1	J	147	ARG	CB-CG-CD	-5.86	96.37	111.60
1	C	116	ARG	CG-CD-NE	5.82	124.01	111.80
1	H	147	ARG	NE-CZ-NH1	5.82	123.21	120.30
1	H	116	ARG	CG-CD-NE	5.80	123.99	111.80
1	G	116	ARG	CG-CD-NE	5.80	123.98	111.80
1	B	116	ARG	CG-CD-NE	5.80	123.97	111.80
1	E	116	ARG	CG-CD-NE	5.80	123.97	111.80
1	F	4	ASP	O-C-N	5.79	131.97	122.70
1	I	147	ARG	NE-CZ-NH1	5.79	123.20	120.30
1	D	116	ARG	CG-CD-NE	5.79	123.97	111.80
1	D	4	ASP	O-C-N	5.79	131.97	122.70
1	G	4	ASP	O-C-N	5.79	131.97	122.70
1	B	147	ARG	NE-CZ-NH1	5.79	123.19	120.30
1	B	4	ASP	O-C-N	5.79	131.96	122.70
1	H	4	ASP	O-C-N	5.79	131.96	122.70
1	H	218	TYR	CB-CG-CD1	5.79	124.47	121.00
1	F	116	ARG	CG-CD-NE	5.79	123.95	111.80
1	J	4	ASP	O-C-N	5.79	131.96	122.70
1	E	4	ASP	O-C-N	5.78	131.95	122.70
1	J	116	ARG	CG-CD-NE	5.78	123.94	111.80
1	A	4	ASP	O-C-N	5.78	131.95	122.70
1	I	4	ASP	O-C-N	5.78	131.95	122.70
1	A	116	ARG	CG-CD-NE	5.78	123.93	111.80
1	C	4	ASP	O-C-N	5.78	131.94	122.70
1	I	116	ARG	CG-CD-NE	5.78	123.93	111.80
1	I	374	CYS	C-N-CA	5.76	136.11	121.70
1	A	374	CYS	C-N-CA	5.76	136.10	121.70
1	F	81	ASP	CB-CG-OD2	5.76	123.48	118.30
1	D	374	CYS	C-N-CA	5.76	136.09	121.70
1	F	218	TYR	CB-CG-CD1	5.75	124.45	121.00
1	D	218	TYR	CB-CG-CD1	5.75	124.45	121.00
1	E	374	CYS	C-N-CA	5.75	136.06	121.70
1	F	374	CYS	C-N-CA	5.75	136.07	121.70
1	I	81	ASP	CB-CG-OD2	5.75	123.47	118.30
1	J	81	ASP	CB-CG-OD2	5.75	123.47	118.30
1	J	374	CYS	C-N-CA	5.74	136.06	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	374	CYS	C-N-CA	5.74	136.06	121.70
1	G	374	CYS	C-N-CA	5.74	136.05	121.70
1	A	147	ARG	NE-CZ-NH1	5.74	123.17	120.30
1	C	218	TYR	CB-CG-CD1	5.74	124.44	121.00
1	D	81	ASP	CB-CG-OD2	5.74	123.46	118.30
1	D	147	ARG	NE-CZ-NH1	5.74	123.17	120.30
1	B	374	CYS	C-N-CA	5.73	136.03	121.70
1	F	356	TRP	CD1-NE1-CE2	5.73	114.16	109.00
1	A	81	ASP	CB-CG-OD2	5.73	123.45	118.30
1	C	374	CYS	C-N-CA	5.73	136.02	121.70
1	E	147	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	E	81	ASP	CB-CG-OD2	5.71	123.44	118.30
1	J	147	ARG	NE-CZ-NH1	5.71	123.16	120.30
1	G	81	ASP	CB-CG-OD2	5.71	123.44	118.30
1	B	81	ASP	CB-CG-OD2	5.70	123.43	118.30
1	C	356	TRP	CD1-NE1-CE2	5.70	114.13	109.00
1	G	356	TRP	CD1-NE1-CE2	5.70	114.13	109.00
1	G	147	ARG	NE-CZ-NH1	5.70	123.15	120.30
1	C	81	ASP	CB-CG-OD2	5.70	123.42	118.30
1	I	356	TRP	CD1-NE1-CE2	5.69	114.12	109.00
1	J	356	TRP	CD1-NE1-CE2	5.69	114.12	109.00
1	E	218	TYR	CB-CG-CD1	5.68	124.41	121.00
1	E	356	TRP	CD1-NE1-CE2	5.68	114.11	109.00
1	H	81	ASP	CB-CG-OD2	5.68	123.41	118.30
1	G	218	TYR	CB-CG-CD1	5.68	124.41	121.00
1	H	356	TRP	CD1-NE1-CE2	5.67	114.10	109.00
1	D	356	TRP	CD1-NE1-CE2	5.67	114.10	109.00
1	A	218	TYR	CB-CG-CD1	5.65	124.39	121.00
1	J	218	TYR	CB-CG-CD1	5.65	124.39	121.00
1	C	147	ARG	NE-CZ-NH1	5.65	123.12	120.30
1	F	147	ARG	NE-CZ-NH1	5.64	123.12	120.30
1	B	356	TRP	CD1-NE1-CE2	5.64	114.08	109.00
1	I	218	TYR	CB-CG-CD1	5.64	124.38	121.00
1	A	356	TRP	CD1-NE1-CE2	5.62	114.06	109.00
1	B	218	TYR	CB-CG-CD1	5.62	124.37	121.00
1	B	256	ARG	CA-CB-CG	5.60	125.73	113.40
1	I	256	ARG	CA-CB-CG	5.59	125.70	113.40
1	F	256	ARG	CA-CB-CG	5.59	125.70	113.40
1	G	256	ARG	CA-CB-CG	5.58	125.69	113.40
1	A	256	ARG	CA-CB-CG	5.58	125.67	113.40
1	D	256	ARG	CA-CB-CG	5.58	125.67	113.40
1	E	256	ARG	CA-CB-CG	5.58	125.67	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	256	ARG	CA-CB-CG	5.57	125.65	113.40
1	D	37	ARG	NE-CZ-NH2	-5.57	117.52	120.30
1	H	256	ARG	CA-CB-CG	5.57	125.65	113.40
1	J	256	ARG	CA-CB-CG	5.57	125.65	113.40
1	I	274	ILE	CA-CB-CG1	-5.52	100.52	111.00
1	J	274	ILE	CA-CB-CG1	-5.51	100.53	111.00
1	C	274	ILE	CA-CB-CG1	-5.51	100.53	111.00
1	G	274	ILE	CA-CB-CG1	-5.51	100.53	111.00
1	D	274	ILE	CA-CB-CG1	-5.51	100.54	111.00
1	E	274	ILE	CA-CB-CG1	-5.51	100.54	111.00
1	F	274	ILE	CA-CB-CG1	-5.51	100.54	111.00
1	B	274	ILE	CA-CB-CG1	-5.50	100.54	111.00
1	A	274	ILE	CA-CB-CG1	-5.50	100.55	111.00
1	H	274	ILE	CA-CB-CG1	-5.50	100.56	111.00
1	G	37	ARG	NE-CZ-NH2	-5.49	117.55	120.30
1	F	37	ARG	NE-CZ-NH2	-5.49	117.56	120.30
1	I	37	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	G	354	GLN	N-CA-C	-5.48	96.22	111.00
1	B	37	ARG	NE-CZ-NH2	-5.47	117.56	120.30
1	E	37	ARG	NE-CZ-NH2	-5.47	117.56	120.30
1	H	354	GLN	N-CA-C	-5.47	96.22	111.00
1	B	354	GLN	N-CA-C	-5.47	96.23	111.00
1	D	354	GLN	N-CA-C	-5.47	96.23	111.00
1	I	354	GLN	N-CA-C	-5.47	96.23	111.00
1	E	354	GLN	N-CA-C	-5.46	96.25	111.00
1	C	37	ARG	NE-CZ-NH2	-5.46	117.57	120.30
1	A	354	GLN	N-CA-C	-5.46	96.25	111.00
1	F	354	GLN	N-CA-C	-5.46	96.26	111.00
1	J	37	ARG	NE-CZ-NH2	-5.46	117.57	120.30
1	C	354	GLN	N-CA-C	-5.46	96.26	111.00
1	J	354	GLN	N-CA-C	-5.45	96.29	111.00
1	H	37	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	D	323	SER	N-CA-CB	-5.43	102.35	110.50
1	A	37	ARG	NE-CZ-NH2	-5.42	117.59	120.30
1	C	323	SER	N-CA-CB	-5.42	102.37	110.50
1	E	323	SER	N-CA-CB	-5.41	102.38	110.50
1	G	323	SER	N-CA-CB	-5.41	102.39	110.50
1	I	323	SER	N-CA-CB	-5.40	102.40	110.50
1	H	323	SER	N-CA-CB	-5.40	102.40	110.50
1	A	323	SER	N-CA-CB	-5.39	102.41	110.50
1	F	323	SER	N-CA-CB	-5.39	102.41	110.50
1	B	323	SER	N-CA-CB	-5.39	102.41	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	337	TYR	CB-CG-CD1	-5.39	117.77	121.00
1	J	323	SER	N-CA-CB	-5.38	102.42	110.50
1	H	356	TRP	CB-CA-C	-5.38	99.63	110.40
1	C	353	GLN	CB-CG-CD	5.38	125.59	111.60
1	F	353	GLN	CB-CG-CD	5.38	125.58	111.60
1	G	356	TRP	CB-CA-C	-5.38	99.65	110.40
1	I	356	TRP	CB-CA-C	-5.38	99.65	110.40
1	B	356	TRP	CB-CA-C	-5.38	99.65	110.40
1	D	356	TRP	CB-CA-C	-5.38	99.65	110.40
1	B	353	GLN	CB-CG-CD	5.37	125.57	111.60
1	E	356	TRP	CB-CA-C	-5.37	99.65	110.40
1	I	353	GLN	CB-CG-CD	5.37	125.57	111.60
1	J	356	TRP	CB-CA-C	-5.37	99.65	110.40
1	G	353	GLN	CB-CG-CD	5.37	125.56	111.60
1	C	356	TRP	CB-CA-C	-5.37	99.66	110.40
1	E	353	GLN	CB-CG-CD	5.37	125.56	111.60
1	H	353	GLN	CB-CG-CD	5.37	125.56	111.60
1	J	353	GLN	CB-CG-CD	5.37	125.56	111.60
1	D	353	GLN	CB-CG-CD	5.37	125.55	111.60
1	A	353	GLN	CB-CG-CD	5.36	125.54	111.60
1	A	356	TRP	CB-CA-C	-5.36	99.68	110.40
1	G	198	TYR	CB-CG-CD2	-5.36	117.79	121.00
1	F	356	TRP	CB-CA-C	-5.35	99.69	110.40
1	I	337	TYR	CB-CG-CD1	-5.34	117.80	121.00
1	F	198	TYR	CB-CG-CD2	-5.34	117.80	121.00
1	G	337	TYR	CB-CG-CD1	-5.34	117.80	121.00
1	J	5	ILE	CA-C-O	5.34	131.31	120.10
1	H	5	ILE	CA-C-O	5.34	131.31	120.10
1	H	198	TYR	CB-CG-CD2	-5.34	117.80	121.00
1	J	337	TYR	CB-CG-CD1	-5.33	117.80	121.00
1	F	5	ILE	CA-C-O	5.33	131.29	120.10
1	B	198	TYR	CB-CG-CD2	-5.33	117.81	121.00
1	C	5	ILE	CA-C-O	5.32	131.28	120.10
1	A	5	ILE	CA-C-O	5.32	131.26	120.10
1	D	5	ILE	CA-C-O	5.32	131.26	120.10
1	I	5	ILE	CA-C-O	5.32	131.26	120.10
1	B	5	ILE	CA-C-O	5.31	131.26	120.10
1	E	5	ILE	CA-C-O	5.31	131.26	120.10
1	G	5	ILE	CA-C-O	5.31	131.25	120.10
1	E	337	TYR	CB-CG-CD1	-5.31	117.81	121.00
1	F	45	VAL	CA-C-N	-5.31	105.59	116.20
1	G	45	VAL	CA-C-N	-5.31	105.59	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	45	VAL	CA-C-N	-5.30	105.59	116.20
1	B	45	VAL	CA-C-N	-5.30	105.59	116.20
1	C	45	VAL	CA-C-N	-5.30	105.59	116.20
1	A	45	VAL	CA-C-N	-5.30	105.60	116.20
1	D	45	VAL	CA-C-N	-5.30	105.60	116.20
1	D	198	TYR	CB-CG-CD2	-5.30	117.82	121.00
1	E	45	VAL	CA-C-N	-5.30	105.60	116.20
1	I	45	VAL	CA-C-N	-5.30	105.60	116.20
1	E	198	TYR	CB-CG-CD2	-5.30	117.82	121.00
1	H	45	VAL	CA-C-N	-5.29	105.61	116.20
1	I	198	TYR	CB-CG-CD2	-5.29	117.82	121.00
1	C	198	TYR	CB-CG-CD2	-5.29	117.83	121.00
1	J	312	ARG	NE-CZ-NH1	-5.28	117.66	120.30
1	A	254	ARG	CB-CG-CD	-5.28	97.87	111.60
1	B	337	TYR	CB-CG-CD1	-5.28	117.83	121.00
1	J	198	TYR	CB-CG-CD2	-5.28	117.83	121.00
1	A	198	TYR	CB-CG-CD2	-5.28	117.83	121.00
1	J	254	ARG	CB-CG-CD	-5.28	97.89	111.60
1	F	254	ARG	CB-CG-CD	-5.27	97.89	111.60
1	D	254	ARG	CB-CG-CD	-5.27	97.89	111.60
1	F	44	MET	CG-SD-CE	-5.27	91.77	100.20
1	H	254	ARG	CB-CG-CD	-5.27	97.89	111.60
1	H	337	TYR	CB-CG-CD1	-5.27	117.84	121.00
1	I	44	MET	CG-SD-CE	-5.27	91.77	100.20
1	C	254	ARG	CB-CG-CD	-5.27	97.90	111.60
1	E	254	ARG	CB-CG-CD	-5.27	97.90	111.60
1	G	254	ARG	CB-CG-CD	-5.27	97.90	111.60
1	J	44	MET	CG-SD-CE	-5.27	91.77	100.20
1	B	44	MET	CG-SD-CE	-5.27	91.77	100.20
1	B	254	ARG	CB-CG-CD	-5.27	97.90	111.60
1	C	337	TYR	CB-CG-CD1	-5.27	117.84	121.00
1	C	44	MET	CG-SD-CE	-5.27	91.77	100.20
1	A	44	MET	CG-SD-CE	-5.26	91.78	100.20
1	D	44	MET	CG-SD-CE	-5.26	91.78	100.20
1	I	254	ARG	CB-CG-CD	-5.26	97.91	111.60
1	E	44	MET	CG-SD-CE	-5.26	91.78	100.20
1	G	44	MET	CG-SD-CE	-5.26	91.78	100.20
1	D	337	TYR	CB-CG-CD1	-5.26	117.84	121.00
1	H	44	MET	CG-SD-CE	-5.26	91.79	100.20
1	G	312	ARG	NE-CZ-NH1	-5.25	117.67	120.30
1	J	205	GLU	CA-CB-CG	5.25	124.94	113.40
1	B	205	GLU	CA-CB-CG	5.24	124.92	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	205	GLU	CA-CB-CG	5.23	124.92	113.40
1	G	205	GLU	CA-CB-CG	5.23	124.91	113.40
1	F	337	TYR	CB-CG-CD1	-5.23	117.86	121.00
1	A	312	ARG	NE-CZ-NH1	-5.23	117.68	120.30
1	A	237	GLU	CA-CB-CG	5.23	124.90	113.40
1	B	237	GLU	CA-CB-CG	5.23	124.90	113.40
1	C	237	GLU	CA-CB-CG	5.23	124.90	113.40
1	F	312	ARG	NE-CZ-NH1	-5.23	117.69	120.30
1	B	147	ARG	CA-CB-CG	5.23	124.90	113.40
1	C	147	ARG	CA-CB-CG	5.22	124.89	113.40
1	C	312	ARG	NE-CZ-NH1	-5.22	117.69	120.30
1	F	237	GLU	CA-CB-CG	5.22	124.89	113.40
1	H	147	ARG	CA-CB-CG	5.22	124.89	113.40
1	J	147	ARG	CA-CB-CG	5.22	124.90	113.40
1	J	237	GLU	CA-CB-CG	5.22	124.89	113.40
1	E	205	GLU	CA-CB-CG	5.22	124.89	113.40
1	E	237	GLU	CA-CB-CG	5.22	124.89	113.40
1	G	254	ARG	NE-CZ-NH1	5.22	122.91	120.30
1	I	237	GLU	CA-CB-CG	5.22	124.89	113.40
1	H	205	GLU	CA-CB-CG	5.22	124.89	113.40
1	C	205	GLU	CA-CB-CG	5.22	124.89	113.40
1	G	237	GLU	CA-CB-CG	5.22	124.88	113.40
1	H	312	ARG	NE-CZ-NH1	-5.22	117.69	120.30
1	I	147	ARG	CA-CB-CG	5.22	124.88	113.40
1	E	147	ARG	CA-CB-CG	5.22	124.88	113.40
1	F	205	GLU	CA-CB-CG	5.22	124.88	113.40
1	A	147	ARG	CA-CB-CG	5.22	124.88	113.40
1	H	237	GLU	CA-CB-CG	5.22	124.88	113.40
1	D	147	ARG	CA-CB-CG	5.21	124.87	113.40
1	D	237	GLU	CA-CB-CG	5.21	124.87	113.40
1	D	312	ARG	NE-CZ-NH1	-5.21	117.69	120.30
1	F	147	ARG	CA-CB-CG	5.21	124.87	113.40
1	G	147	ARG	CA-CB-CG	5.21	124.86	113.40
1	I	205	GLU	CA-CB-CG	5.21	124.87	113.40
1	D	205	GLU	CA-CB-CG	5.20	124.85	113.40
1	H	43	VAL	CA-CB-CG1	5.20	118.70	110.90
1	I	312	ARG	NE-CZ-NH1	-5.19	117.70	120.30
1	E	312	ARG	NE-CZ-NH1	-5.19	117.70	120.30
1	J	43	VAL	CA-CB-CG1	5.18	118.67	110.90
1	A	43	VAL	CA-CB-CG1	5.17	118.66	110.90
1	C	43	VAL	CA-CB-CG1	5.17	118.66	110.90
1	I	43	VAL	CA-CB-CG1	5.17	118.66	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	43	VAL	CA-CB-CG1	5.17	118.66	110.90
1	D	43	VAL	CA-CB-CG1	5.17	118.65	110.90
1	J	79	TRP	CG-CD1-NE1	-5.17	104.94	110.10
1	G	79	TRP	CG-CD1-NE1	-5.16	104.94	110.10
1	G	43	VAL	CA-CB-CG1	5.16	118.64	110.90
1	F	43	VAL	CA-CB-CG1	5.15	118.63	110.90
1	B	43	VAL	CA-CB-CG1	5.15	118.62	110.90
1	F	254	ARG	NE-CZ-NH1	5.15	122.88	120.30
1	B	79	TRP	CG-CD1-NE1	-5.14	104.96	110.10
1	G	287	VAL	CG1-CB-CG2	-5.14	102.68	110.90
1	D	79	TRP	CG-CD1-NE1	-5.13	104.97	110.10
1	A	254	ARG	NE-CZ-NH1	5.13	122.86	120.30
1	F	79	TRP	CG-CD1-NE1	-5.13	104.97	110.10
1	B	312	ARG	NE-CZ-NH1	-5.12	117.74	120.30
1	C	79	TRP	CG-CD1-NE1	-5.12	104.98	110.10
1	E	79	TRP	CG-CD1-NE1	-5.12	104.98	110.10
1	A	79	TRP	CG-CD1-NE1	-5.12	104.98	110.10
1	H	287	VAL	CG1-CB-CG2	-5.12	102.71	110.90
1	I	79	TRP	CG-CD1-NE1	-5.12	104.98	110.10
1	E	254	ARG	NE-CZ-NH1	5.12	122.86	120.30
1	E	287	VAL	CG1-CB-CG2	-5.12	102.71	110.90
1	J	287	VAL	CG1-CB-CG2	-5.11	102.72	110.90
1	J	329	ILE	CG1-CB-CG2	-5.11	100.15	111.40
1	E	329	ILE	CG1-CB-CG2	-5.11	100.15	111.40
1	A	329	ILE	CG1-CB-CG2	-5.11	100.16	111.40
1	G	329	ILE	CG1-CB-CG2	-5.11	100.16	111.40
1	I	329	ILE	CG1-CB-CG2	-5.11	100.16	111.40
1	J	254	ARG	NE-CZ-NH1	5.11	122.86	120.30
1	D	329	ILE	CG1-CB-CG2	-5.11	100.16	111.40
1	C	340	TRP	CG-CD1-NE1	-5.11	104.99	110.10
1	D	287	VAL	CG1-CB-CG2	-5.11	102.73	110.90
1	A	287	VAL	CG1-CB-CG2	-5.11	102.73	110.90
1	C	287	VAL	CG1-CB-CG2	-5.11	102.73	110.90
1	C	329	ILE	CG1-CB-CG2	-5.11	100.17	111.40
1	H	79	TRP	CG-CD1-NE1	-5.10	105.00	110.10
1	F	287	VAL	CG1-CB-CG2	-5.10	102.74	110.90
1	F	329	ILE	CG1-CB-CG2	-5.10	100.17	111.40
1	H	329	ILE	CG1-CB-CG2	-5.10	100.17	111.40
1	B	329	ILE	CG1-CB-CG2	-5.10	100.18	111.40
1	B	254	ARG	NE-CZ-NH1	5.09	122.85	120.30
1	H	254	ARG	NE-CZ-NH1	5.09	122.84	120.30
1	I	287	VAL	CG1-CB-CG2	-5.09	102.76	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	340	TRP	CG-CD1-NE1	-5.08	105.02	110.10
1	B	119	MET	CA-CB-CG	5.08	121.94	113.30
1	B	287	VAL	CG1-CB-CG2	-5.08	102.77	110.90
1	D	119	MET	CA-CB-CG	5.08	121.94	113.30
1	G	119	MET	CA-CB-CG	5.08	121.94	113.30
1	A	326	LYS	N-CA-C	-5.08	97.29	111.00
1	H	326	LYS	N-CA-C	-5.08	97.29	111.00
1	D	326	LYS	N-CA-C	-5.08	97.30	111.00
1	C	119	MET	CA-CB-CG	5.07	121.92	113.30
1	F	119	MET	CA-CB-CG	5.07	121.92	113.30
1	J	119	MET	CA-CB-CG	5.07	121.92	113.30
1	H	119	MET	CA-CB-CG	5.07	121.92	113.30
1	E	119	MET	CA-CB-CG	5.07	121.92	113.30
1	E	326	LYS	N-CA-C	-5.07	97.31	111.00
1	G	326	LYS	N-CA-C	-5.07	97.31	111.00
1	I	326	LYS	N-CA-C	-5.07	97.31	111.00
1	F	326	LYS	N-CA-C	-5.07	97.32	111.00
1	I	119	MET	CA-CB-CG	5.07	121.92	113.30
1	J	326	LYS	N-CA-C	-5.07	97.32	111.00
1	B	326	LYS	N-CA-C	-5.07	97.32	111.00
1	C	326	LYS	N-CA-C	-5.07	97.32	111.00
1	E	340	TRP	CG-CD1-NE1	-5.07	105.03	110.10
1	J	116	ARG	NE-CZ-NH2	-5.07	117.77	120.30
1	A	119	MET	CA-CB-CG	5.06	121.90	113.30
1	D	110	LEU	CA-CB-CG	5.05	126.92	115.30
1	C	335	ARG	NE-CZ-NH2	-5.05	117.77	120.30
1	G	110	LEU	CA-CB-CG	5.05	126.92	115.30
1	H	110	LEU	CA-CB-CG	5.05	126.92	115.30
1	B	110	LEU	CA-CB-CG	5.05	126.91	115.30
1	D	340	TRP	CG-CD1-NE1	-5.05	105.05	110.10
1	A	110	LEU	CA-CB-CG	5.05	126.91	115.30
1	E	110	LEU	CA-CB-CG	5.05	126.91	115.30
1	I	110	LEU	CA-CB-CG	5.05	126.91	115.30
1	J	340	TRP	CG-CD1-NE1	-5.05	105.05	110.10
1	F	110	LEU	CA-CB-CG	5.04	126.90	115.30
1	J	110	LEU	CA-CB-CG	5.04	126.90	115.30
1	C	110	LEU	CA-CB-CG	5.04	126.90	115.30
1	D	237	GLU	CB-CG-CD	5.04	127.80	114.20
1	F	340	TRP	CG-CD1-NE1	-5.04	105.06	110.10
1	I	237	GLU	CB-CG-CD	5.03	127.78	114.20
1	A	192	ILE	CA-CB-CG1	5.03	120.55	111.00
1	C	237	GLU	CB-CG-CD	5.03	127.77	114.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	192	ILE	CA-CB-CG1	5.03	120.55	111.00
1	E	237	GLU	CB-CG-CD	5.03	127.77	114.20
1	H	237	GLU	CB-CG-CD	5.03	127.78	114.20
1	H	340	TRP	CG-CD1-NE1	-5.03	105.07	110.10
1	A	340	TRP	CG-CD1-NE1	-5.03	105.07	110.10
1	I	340	TRP	CG-CD1-NE1	-5.03	105.08	110.10
1	B	340	TRP	CG-CD1-NE1	-5.02	105.08	110.10
1	C	192	ILE	CA-CB-CG1	5.02	120.55	111.00
1	F	237	GLU	CB-CG-CD	5.02	127.77	114.20
1	G	237	GLU	CB-CG-CD	5.02	127.76	114.20
1	H	283	MET	CA-CB-CG	-5.02	104.76	113.30
1	J	237	GLU	CB-CG-CD	5.02	127.76	114.20
1	C	254	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	J	335	ARG	NE-CZ-NH2	-5.02	117.79	120.30
1	B	237	GLU	CB-CG-CD	5.02	127.75	114.20
1	C	283	MET	CA-CB-CG	-5.02	104.77	113.30
1	I	254	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	D	116	ARG	NE-CZ-NH2	-5.02	117.79	120.30
1	D	254	ARG	NE-CZ-NH1	5.02	122.81	120.30
1	D	335	ARG	NE-CZ-NH2	-5.02	117.79	120.30
1	E	192	ILE	CA-CB-CG1	5.02	120.53	111.00
1	G	192	ILE	CA-CB-CG1	5.02	120.53	111.00
1	F	192	ILE	CA-CB-CG1	5.01	120.53	111.00
1	H	192	ILE	CA-CB-CG1	5.01	120.53	111.00
1	A	237	GLU	CB-CG-CD	5.01	127.73	114.20
1	J	192	ILE	CA-CB-CG1	5.01	120.52	111.00
1	I	192	ILE	CA-CB-CG1	5.01	120.52	111.00
1	D	283	MET	CA-CB-CG	-5.01	104.79	113.30
1	G	283	MET	CA-CB-CG	-5.01	104.79	113.30
1	I	335	ARG	NE-CZ-NH2	-5.01	117.80	120.30
1	J	283	MET	CA-CB-CG	-5.01	104.79	113.30
1	B	192	ILE	CA-CB-CG1	5.00	120.51	111.00
1	C	375	PHE	CA-CB-CG	-5.00	101.89	113.90
1	F	116	ARG	NE-CZ-NH2	-5.00	117.80	120.30
1	A	335	ARG	NE-CZ-NH2	-5.00	117.80	120.30
1	D	375	PHE	CA-CB-CG	-5.00	101.89	113.90
1	H	335	ARG	NE-CZ-NH2	-5.00	117.80	120.30

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	472	0
1	B	2917	0	2851	474	0
1	C	2917	0	2847	725	0
1	D	2917	0	2847	722	0
1	E	2917	0	2847	729	0
1	F	2917	0	2847	721	0
1	G	2917	0	2847	722	0
1	H	2917	0	2847	723	0
1	I	2917	0	2857	478	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	J	2917	0	2857	471	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	4210	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 73.

All (4210) 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: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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:202:THR:CG2	1:E:286:ASP:C	1.80	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:A:138:ALA:HB2	1:A:154:ASP:CB	1.01	1.46
1:I:138:ALA:HB2	1:I:154:ASP:CB	1.01	1.46
1:A:74:GLY:HA3	1:A:158:GLY:N	1.14	1.46
1:C:138:ALA:HB2	1:C:154:ASP:CB	1.01	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:G:138:ALA:HB2	1:G:154:ASP:CB	1.01	1.46
1:E:110:LEU:HD11	1:E:178:LEU:N	1.23	1.46
1:E:138:ALA:HB2	1:E:154:ASP:CB	1.01	1.46
1:G:138:ALA:CB	1:G:154:ASP:CB	1.81	1.46
1:H:202:THR:CG2	1:J:286:ASP:C	1.80	1.46
1:D:202:THR:CG2	1:F:286:ASP:C	1.80	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:C:202:THR:CG2	1:E:286:ASP:O	1.64	1.44
1:D:246:GLN:H	1:F:322:PRO:CB	1.31	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: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: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:J:138:ALA:CB	1:J:154:ASP:HB2	1.40	1.43
1:F:246:GLN:HB2	1:H:322:PRO:CB	1.45	1.43
1:H:74:GLY:N	1:H:157:ASP:C	1.72	1.43
1:J:74:GLY:N	1:J:157:ASP:C	1.72	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: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:B:74:GLY:N	1:B:157:ASP:C	1.72	1.41
1:F:74:GLY:CA	1:F:158:GLY:N	1.84	1.41
1:F:74:GLY:N	1:F:157:ASP:C	1.72	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
1:H:74:GLY:CA	1:H:158:GLY:N	1.84	1.41
1:B:109:PRO:CD	1:B:159:VAL:CG1	1.98	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:109:PRO:CD	1:C:159:VAL:CG1	1.98	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:D:74:GLY:N	1:D:157:ASP:C	1.72	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: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
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:A:74:GLY:N	1:A:157:ASP:C	1.72	1.39
1:A:246:GLN:H	1:C:322:PRO:CB	1.31	1.39
1:G:74:GLY:N	1:G:157:ASP:C	1.72	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:74:GLY:N	1:E:157:ASP:C	1.72	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:N	1:I:157:ASP:C	1.72	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:G:202:THR:CG2	1:I:286:ASP:C	1.80	1.38
1:C:74:GLY:N	1:C:157:ASP:C	1.72	1.38
1:E:38:PRO:CB	1:G:169:TYR:CE1	2.05	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: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: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: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: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:E:138:ALA:CB	1:E:154:ASP:HB2	1.40	1.36
1:G:34:ILE:CG2	1:G:81:ASP:OD1	1.70	1.36
1:F:38:PRO:CB	1:H:169:TYR:CZ	1.93	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:E:202:THR:CG2	1:G:286:ASP:C	1.80	1.35
1:D:42:GLY:CA	1:F:169:TYR:HA	1.51	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:A:245:GLY:C	1:C:324:THR:N	1.82	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:138:ALA:CB	1:B:154:ASP:CB	1.81	1.33
1:C:109:PRO:CD	1:C:159:VAL:HG13	1.57	1.33
1:E:245:GLY:C	1:G:324:THR:N	1.82	1.33
1:H:38:PRO:CB	1:J:169:TYR:CE1	2.05	1.33
1:A:202:THR:HG23	1:C:286:ASP:C	1.11	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:B:202:THR:HG23	1:D:286:ASP:C	1.11	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:G:38:PRO:HB2	1:I:169:TYR:CZ	1.43	1.32
1:H:245:GLY:C	1:J:324:THR:N	1.82	1.32
1:H:42:GLY:HA3	1:J:169:TYR:CG	1.64	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:G:245:GLY:C	1:I:324:THR:N	1.82	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
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:D:245:GLY:C	1:F:324:THR:N	1.82	1.31
1:F:42:GLY:N	1:H:169:TYR:CD1	1.99	1.31
1:F:245:GLY:C	1:H:324:THR:N	1.82	1.31
1:A:69:TYR:C	1:A:84:LYS:HA	1.48	1.30
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:C:69:TYR:C	1:C:84:LYS:HA	1.48	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:H:202:THR:HG23	1:J:286:ASP:C	1.10	1.30
1:C:245:GLY:C	1:E:324:THR:N	1.82	1.30
1:G:69:TYR:C	1:G:84:LYS:HA	1.48	1.30
1:H:42:GLY:N	1:J:169:TYR:CD1	1.99	1.30
1:E:69:TYR:C	1:E:84:LYS:HA	1.48	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:I:69:TYR:C	1:I:84:LYS:HA	1.48	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:202:THR:HG23	1:F:286:ASP:C	1.11	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:F:202:THR:HG23	1:H:286:ASP:C	1.10	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:B:245:GLY:C	1:D:324:THR:N	1.82	1.28
1:D:245:GLY:O	1:F:324:THR:N	1.65	1.28
1:A:50:LYS:CG	1:C:148:THR:HG21	1.61	1.28
1:E:245:GLY:HA2	1:G:324:THR:C	1.54	1.28
1:G:245:GLY:HA2	1:I:324:THR:C	1.54	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:C:245:GLY:HA2	1:E:324:THR:C	1.54	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:F:202:THR:CG2	1:H:286:ASP:C	1.80	1.27
1:J:109:PRO:CD	1:J:159:VAL:HG13	1.57	1.27
1:A:245:GLY:HA2	1:C:324:THR:C	1.54	1.27
1:B:245:GLY:HA2	1:D:324:THR:C	1.54	1.27
1:D:142:LEU:CD1	1:D:152:VAL:CG2	2.12	1.27
1:D:245:GLY:HA2	1:F:324:THR:C	1.54	1.27
1:E:202:THR:HG23	1:G:286:ASP:C	1.11	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:I:69:TYR:HB3	1:I:84:LYS:N	0.96	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:F:245:GLY:HA2	1:H:324:THR:C	1.54	1.27
1:H:245:GLY:HA2	1:J:324:THR:C	1.54	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:110:LEU:HD11	1:G:177:ARG:C	0.98	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: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:HD11	1:A:177:ARG:C	0.98	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:B:202:THR:CG2	1:D:286:ASP:C	1.80	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: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: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: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: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: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:C:110:LEU:N	1:C:161:HIS:HE1	1.32	1.24
1:C:110:LEU:N	1:C:161:HIS:CE1	2.05	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:D:110:LEU:HD11	1:D:177:ARG:C	0.98	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:H:110:LEU:HD11	1:H:177:ARG:C	0.98	1.23
1:I:110:LEU:HD11	1:I:177:ARG:C	0.98	1.23
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:D:69:TYR:C	1:D: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
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: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:H:110:LEU:N	1:H:161:HIS:CE1	2.05	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:110:LEU:HD11	1:F:177:ARG:C	0.98	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:C:202:THR:HG23	1:E:286:ASP:C	1.11	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:HD11	1:C:177:ARG:C	0.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:J:110:LEU:HD11	1:J:177:ARG:C	0.98	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
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:69:TYR:C	1:B:84:LYS:HA	1.48	1.20
1:B:110:LEU:H	1:B:161:HIS:CE1	1.58	1.20
1:F:69:TYR:C	1:F:84:LYS:CA	2.07	1.20
1:F:109:PRO:HD2	1:F:159:VAL:CG1	1.66	1.20
1:I:109:PRO:HD2	1:I:159:VAL:CG1	1.66	1.20
1:B:110:LEU:HD11	1:B:177:ARG:C	0.98	1.20
1:C:246:GLN:N	1:E:322:PRO:CB	2.04	1.20
1:A:108:ALA:C	1:A:159:VAL:HG11	1.62	1.20
1:A:246:GLN:N	1:C:322:PRO:CB	2.05	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:E:69:TYR:C	1:E:84:LYS:CA	2.07	1.20
1:A:42:GLY:CA	1:C:169:TYR:CA	2.18	1.19
1:C:69:TYR:C	1:C:84:LYS:CA	2.07	1.19
1:C:108:ALA:C	1:C:159:VAL:HG11	1.62	1.19
1:D:69:TYR:C	1:D:84:LYS:HA	1.48	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:109:PRO:HD2	1:D:159:VAL:CG1	1.66	1.19
1:G:69:TYR:C	1:G:84:LYS:CA	2.07	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:J:108:ALA:C	1:J:159:VAL:HG11	1.62	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:E:108:ALA:C	1:E:159:VAL:HG11	1.62	1.19
1:G:246:GLN:N	1:I:322:PRO:CB	2.04	1.19
1:A:69:TYR:C	1:A:84:LYS:CA	2.07	1.19
1:B:109:PRO:HD2	1:B:159:VAL:CG1	1.66	1.19
1:H:108:ALA:C	1:H:159:VAL:HG11	1.62	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:G:108:ALA:C	1:G:159:VAL:HG11	1.62	1.18
1:E:57:GLU:O	1:G:166:TYR:HE1	1.25	1.18
1:F:108:ALA:C	1:F:159:VAL:HG11	1.62	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
1:F:69:TYR:C	1:F:84:LYS:HA	1.48	1.18
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:69:TYR:C	1:I:84:LYS:CA	2.07	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: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:I:108:ALA:C	1:I:159:VAL:HG11	1.62	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:205:GLU:CG	1:D:287:VAL:CG1	2.03	1.18
1:D:108:ALA:C	1:D:159:VAL:HG11	1.62	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:G:202:THR:HG23	1:I:286:ASP:C	1.11	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:B:108:ALA:C	1:B:159:VAL:HG11	1.62	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:HD11	1:E:177:ARG:C	0.98	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:A:202:THR:CG2	1:C:286:ASP:C	1.80	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:H:69:TYR:C	1:H:84:LYS:CA	2.07	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
1:H:65:LEU:CD1	1:J:166:TYR:CE2	2.27	1.16
1:B:69:TYR:C	1:B:84:LYS:CA	2.07	1.16
1:D:34:ILE:HG23	1:D:84:LYS:HG3	1.17	1.16
1:H:69:TYR:C	1:H:84:LYS:HA	1.48	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:J:69:TYR:C	1:J:84:LYS:CA	2.07	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: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:D:44:MET:SD	1:F:142:LEU:HD11	1.88	1.14
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:J:69:TYR:C	1:J:84:LYS:HA	1.48	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:I:34:ILE:CG2	1:I:84:LYS:HG3	1.78	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
1:E:34:ILE:HG23	1:E:84:LYS:HG3	1.17	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:F:109:PRO:CA	1:F:159:VAL:HG11	1.67	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
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:138:ALA:HB2	1:F:154:ASP:HB3	1.20	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:142:LEU:HD13	1:I:152:VAL:HG21	1.30	1.09
1:B:245:GLY:O	1:D:323:SER:C	1.91	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:O	1:E:323:SER:C	1.91	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:J:77:THR:HG21	1:J:183:ARG:HH12	1.01	1.09
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
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:D:245:GLY:O	1:F:323:SER:C	1.91	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: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:G:245:GLY:O	1:I:323:SER:C	1.91	1.08
1:I:138:ALA:HB2	1:I:154:ASP:HB3	1.20	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:109:PRO:CA	1:J:159:VAL:HG11	1.67	1.08
1:A:245:GLY:O	1:C:323:SER:C	1.91	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:G:44:MET:HG3	1:I:150:GLY:N	1.33	1.08
1:H:245:GLY:O	1:J:323:SER:C	1.91	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:41:GLN:HE21	1:C:355:MET:HE1	1.18	1.07
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:B:138:ALA:HB1	1:B:154:ASP:HB2	1.13	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: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: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:E:138:ALA:HB1	1:E:154:ASP:HB2	1.13	1.07
1:H:64:ILE:HG21	1:J:171:LEU:HD22	1.30	1.07
1:H:110:LEU:CD1	1:H:177:ARG:C	1.90	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:110:LEU:CD1	1:C:177:ARG:C	1.90	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:F:245:GLY:O	1:H:323:SER:C	1.91	1.07
1:G:38:PRO:HB3	1:I:169:TYR:CD1	1.63	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: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:G:109:PRO:CA	1:G:159:VAL:HG11	1.67	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:138:ALA:HB1	1:D:154:ASP:HB2	1.13	1.07
1:E:245:GLY:O	1:G:323:SER:C	1.91	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: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
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:E:72:GLU:HG3	1:E:183:ARG:CG	1.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
1:G:41:GLN:HE21	1:I:355:MET:CE	1.68	1.05
1:C:50:LYS:HG3	1:E:148:THR:HG21	1.09	1.05
1:D:110:LEU:CD1	1:D:177:ARG:C	1.90	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: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:A:245:GLY:C	1:C:324:THR:OG1	1.96	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:H:245:GLY:C	1:J:324:THR:OG1	1.96	1.05
1:A:44:MET:HG2	1:C:165:ILE:HB	1.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:38:PRO:HB3	1:G:169:TYR:CD1	1.63	1.04
1:E:41:GLN:HE21	1:G:355:MET:HE1	1.21	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
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:A:245:GLY:C	1:C:323:SER:N	2.11	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:C:245:GLY:C	1:E:324:THR:OG1	1.96	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:F:245:GLY:C	1:H:323:SER:N	2.11	1.04
1:G:42:GLY:HA3	1:I:169:TYR:CD1	1.90	1.04
1:H:245:GLY:C	1:J:323:SER:N	2.11	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:C:245:GLY:C	1:E:323:SER:N	2.11	1.04
1:D:245:GLY:HA2	1:F:324:THR:N	1.44	1.04
1:D:245:GLY:C	1:F:323:SER:N	2.11	1.04
1:G:245:GLY:C	1:I:324:THR:OG1	1.96	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:50:LYS:HB2	1:E:148:THR:CG2	1.88	1.03
1:D:245:GLY:C	1:F:324:THR:OG1	1.96	1.03
1:E:204:ALA:N	1:G:288:ASP:N	2.05	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
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: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:F:245:GLY:C	1:H:324:THR:OG1	1.96	1.03
1:G:34:ILE:HG23	1:G:84:LYS:CG	1.88	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:E:245:GLY:C	1:G:323:SER:N	2.11	1.03
1:G:245:GLY:C	1:I:323:SER:N	2.11	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:A:246:GLN:N	1:C:322:PRO:C	2.12	1.03
1:B:245:GLY:C	1:D:323:SER:N	2.11	1.03
1:B:245:GLY:C	1:D:324:THR:OG1	1.96	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:245:GLY:C	1:G:324:THR:OG1	1.96	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:246:GLN:N	1:I:322:PRO:C	2.12	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:C:246:GLN:N	1:E:322:PRO:C	2.12	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
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:F:77:THR:HG21	1:F:183:ARG:NH1	1.74	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: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:G:110:LEU:CD1	1:G:177:ARG:C	1.90	1.02
1:H:38:PRO:HB3	1:J:169:TYR:CD1	1.63	1.02
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:44:MET:CG	1:H:150:GLY:N	2.21	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:246:GLN:N	1:G:322:PRO:C	2.12	1.01
1:E:246:GLN:CA	1:G:322:PRO:HB3	1.91	1.01
1:F:246:GLN:N	1:H:322:PRO:C	2.12	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:B:246:GLN:N	1:D:322:PRO:C	2.12	1.01
1:C:69:TYR:CA	1:C:84:LYS:N	2.23	1.01
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:246:GLN:N	1:F:322:PRO:C	2.12	1.01
1:F:69:TYR:CB	1:F:84:LYS:N	1.76	1.01
1:E:245:GLY:HA2	1:G:324:THR:N	1.44	1.01
1:H:246:GLN:N	1:J:322:PRO:C	2.12	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:109:PRO:CA	1:A:159:VAL:CG1	2.28	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:H:109:PRO:CA	1:H:159:VAL:CG1	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:B:245:GLY:C	1:D:322:PRO:C	2.22	0.98
1:E:109:PRO:CA	1:E:159:VAL:CG1	2.28	0.98
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: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:D:245:GLY:C	1:F:322:PRO:C	2.22	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: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:245:GLY:C	1:H:322:PRO:C	2.22	0.98
1:G:245:GLY:C	1:I:322:PRO:C	2.22	0.98
1:A:110:LEU:CD1	1:A:177:ARG:C	1.90	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:C:245:GLY:C	1:E:322:PRO:C	2.22	0.97
1:E:245:GLY:C	1:G:322:PRO:C	2.22	0.97
1:H:245:GLY:C	1:J:322:PRO:C	2.22	0.97
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:C:246:GLN:HA	1:E:323:SER:H	1.29	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:245:GLY:HA2	1:E:324:THR:CB	1.93	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: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:G:244:ASP:C	1:I:322:PRO:HB2	1.85	0.97
1:I:110:LEU:CD1	1:I:177:ARG:C	1.90	0.97
1:J:110:LEU:CD1	1:J:177:ARG:C	1.90	0.97
1:B:244:ASP:C	1:D:322:PRO:HB2	1.85	0.97
1:C:41:GLN:HE21	1:E:355:MET:HE1	1.26	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: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:E:244:ASP:C	1:G:322:PRO:HB2	1.85	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:245:GLY:C	1:C:322:PRO:C	2.22	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
1:D:72:GLU:HG3	1:D:183:ARG:HG2	1.47	0.96
1:D:244:ASP:C	1:F:322:PRO:HB2	1.85	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:C:244:ASP:C	1:E:322:PRO:HB2	1.85	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:244:ASP:C	1:J:322:PRO:HB2	1.85	0.96
1:I:72:GLU:HB3	1:I:183:ARG:CZ	1.94	0.96
1:A:244:ASP:C	1:C:322:PRO:HB2	1.85	0.95
1:C:45:VAL:HA	1:E:142:LEU:O	1.63	0.95
1:E:108:ALA:HB1	1:E:159:VAL:HG12	1.48	0.95
1:F:244:ASP:C	1:H:322:PRO:HB2	1.85	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: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:G:110:LEU:HB2	1:G:159:VAL:HG21	1.45	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: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: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:B:69:TYR:C	1:B:84:LYS:N	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:69:TYR:C	1:D:84:LYS:N	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:110:LEU:HB2	1:E:159:VAL:HG21	1.45	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:D:110:LEU:HB2	1:D:159:VAL:HG21	1.45	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:I:69:TYR:C	1:I:84:LYS:N	2.20	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:74:GLY:HA3	1:B:158:GLY:CA	1.96	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: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:F:110:LEU:CD1	1:F:177:ARG:C	1.90	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: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:F:69:TYR:C	1:F:84:LYS:N	2.20	0.94
1:G:69:TYR:CB	1:G:84:LYS:N	1.76	0.94
1:G:69:TYR:C	1:G:84:LYS:N	2.20	0.94
1:H:40:HIS:O	1:J:169:TYR:HD1	1.40	0.94
1:H:41:GLN:HE21	1:J:355:MET:HE1	1.30	0.94
1:D:41:GLN:HE21	1:F:355:MET:HE1	1.29	0.93
1:D:74:GLY:HA3	1:D:158:GLY:CA	1.96	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:I:108:ALA:C	1:I:159:VAL:CG1	2.29	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:F:108:ALA:HB1	1:F:159:VAL:HG12	1.48	0.93
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:E:69:TYR:C	1:E:84:LYS:N	2.20	0.93
1:F:110:LEU:HB2	1:F:159:VAL:HG21	1.45	0.93
1:H:60:SER:HB2	1:J:289:ILE:HG22	1.50	0.93
1:H:69:TYR:C	1:H:84:LYS:N	2.20	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:C:110:LEU:HB2	1:C:159:VAL:HG21	1.45	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:C:69:TYR:C	1:C:84:LYS:N	2.20	0.93
1:H:60:SER:CB	1:J:289:ILE:CG2	2.46	0.93
1:A:69:TYR:C	1:A:84:LYS:N	2.20	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:J:69:TYR:C	1:J:84:LYS:N	2.20	0.92
1:E:60:SER:O	1:G:289:ILE:HD13	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:108:ALA:C	1:G:159:VAL:CG1	2.29	0.92
1:B:41:GLN:HE21	1:D:355:MET:HE1	1.30	0.92
1:C:40:HIS:O	1:E:169:TYR:HD1	1.40	0.92
1:E:110:LEU:CD1	1:E:177:ARG:C	1.90	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:H:110:LEU:HB2	1:H:159:VAL:HG21	1.45	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:B:110:LEU:CD1	1:B:177:ARG:C	1.90	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:F:246:GLN:N	1:H:322:PRO:CA	2.33	0.91
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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: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: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:E:108:ALA:C	1:E:159:VAL:CG1	2.29	0.91
1:F:61:LYS:HG2	1:H:289:ILE:CD1	2.00	0.91
1:G:109:PRO:CD	1:G:159:VAL:HG12	1.96	0.91
1:I:69:TYR:HB3	1:I:83:GLU:C	1.91	0.91
1:E:246:GLN:N	1:G:322:PRO:CA	2.33	0.91
1:F:60:SER:HB2	1:H:289:ILE:HG22	1.50	0.91
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:D:69:TYR:HB3	1:D:83:GLU:C	1.91	0.90
1:E:69:TYR:HB3	1:E:83:GLU:C	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:B:108:ALA:C	1:B:159:VAL:CG1	2.29	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:69:TYR:HB3	1:G:83:GLU:C	1.91	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:69:TYR:HB3	1:A:83:GLU:C	1.91	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:G:44:MET:HE3	1:I:149:THR:O	1.70	0.90
1:H:110:LEU:HB2	1:H:159:VAL:HG23	1.50	0.90
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:B:44:MET:HE3	1:D:149:THR:O	1.73	0.89
1:B:69:TYR:HB3	1:B:83:GLU:C	1.91	0.89
1:C:69:TYR:HB3	1:C:83:GLU:C	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:245:GLY:O	1:G:323:SER:CA	2.20	0.89
1:F:44:MET:HE3	1:H:149:THR:O	1.71	0.89
1:F:69:TYR:HB3	1:F:83:GLU:C	1.91	0.89
1:H:74:GLY:N	1:H:158:GLY:N	2.04	0.89
1:J:69:TYR:HB3	1:J:83:GLU:C	1.91	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:G:41:GLN:HE21	1:I:355:MET:HE1	1.35	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:41:GLN:HE21	1:H:355:MET:HE1	1.35	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
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:C:108:ALA:C	1:C:159:VAL:CG1	2.29	0.88
1:B:72:GLU:CB	1:B:183:ARG:NH1	1.96	0.88
1:D:45:VAL:O	1:F:142:LEU:CD1	2.10	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:H:45:VAL:O	1:J:142:LEU:CD1	2.10	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:108:ALA:C	1:D:159:VAL:CG1	2.29	0.88
1:G:246:GLN:N	1:I:323:SER:N	2.22	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:E:246:GLN:N	1:G:323:SER:N	2.22	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:C:45:VAL:O	1:E:142:LEU:CD1	2.10	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: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:D:44:MET:HE3	1:F:149:THR:O	1.74	0.87
1:A:44:MET:CG	1:C:165:ILE:HB	1.79	0.87
1:H:69:TYR:HB3	1:H:83:GLU:C	1.91	0.87
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:204:ALA:CA	1:J:288:ASP:HA	2.00	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:109:PRO:C	1:C:161:HIS:CE1	2.37	0.86
1:E:64:ILE:HD11	1:G:166:TYR:HB3	1.55	0.86
1:F:108:ALA:C	1:F:159:VAL:CG1	2.29	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: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:A:109:PRO:C	1:A:161:HIS:CE1	2.37	0.86
1:C:44:MET:HE3	1:E:149:THR:O	1.76	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: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:108:ALA:C	1:A:159:VAL:CG1	2.29	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
1:G:72:GLU:CG	1:G:183:ARG:CZ	2.51	0.85
1:H:108:ALA:C	1:H:159:VAL:CG1	2.29	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:142:LEU:CD1	1:I:152:VAL:HG23	1.91	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:108:ALA:C	1:J:159:VAL:CG1	2.29	0.85
1:B:243:PRO:O	1:D:325:MET:HA	1.77	0.85
1:E:45:VAL:O	1:G:142:LEU:HD12	1.34	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:H:44:MET:HE3	1:J:149:THR:O	1.76	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:H:245:GLY:HA2	1:J:325:MET:N	1.77	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:F:41:GLN:HE21	1:H:355:MET:HE3	1.40	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: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:G:41:GLN:HE21	1:I:355:MET:HE3	1.40	0.84
1:E:74:GLY:CA	1:E:157:ASP:C	2.35	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
1:D:61:LYS:HG3	1:F:289:ILE:HG21	1.59	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:45:VAL:O	1:C:142:LEU:CD1	2.10	0.83
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: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	1.79	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: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:F:74:GLY:CA	1:F:157:ASP:C	2.35	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: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:I:74:GLY:CA	1:I:157:ASP:C	2.35	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: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:J:74:GLY:CA	1:J:157:ASP:C	2.35	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:H:74:GLY:CA	1:H:157:ASP:C	2.35	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:C:74:GLY:CA	1:C:157:ASP:C	2.35	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:H:44:MET:CE	1:J:149:THR:O	2.14	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: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
1:D:74:GLY:N	1:D:157:ASP:O	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:74:GLY:CA	1:B:157:ASP:C	2.35	0.81
1:C:74:GLY:N	1:C:157:ASP:HB3	1.94	0.81
1:D:45:VAL:O	1:F:142:LEU:HD12	1.34	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:41:GLN:HE21	1:J:355:MET:HE3	1.45	0.81
1:H:48:GLY:H	1:J:148:THR:HG23	1.42	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:44:MET:HE3	1:G:149:THR:O	1.80	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:G:74:GLY:CA	1:G:157:ASP:C	2.35	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: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:B:41:GLN:HE21	1:D:355:MET:HE3	1.45	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:H:45:VAL:O	1:J:142:LEU:HD12	1.34	0.80
1:B:44:MET:CG	1:D:150:GLY:O	2.30	0.80
1:A:45:VAL:O	1:C:142:LEU:HD12	1.34	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:CE	1:E:149:THR:O	2.14	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: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
1:E:44:MET:CG	1:G:150:GLY:O	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:B:202:THR:HG23	1:D:286:ASP:O	1.40	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:74:GLY:CA	1:A:157:ASP:C	2.35	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:D:41:GLN:HE21	1:F:355:MET:HE3	1.46	0.78
1:D:74:GLY:CA	1:D:157:ASP:C	2.35	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:A:61:LYS:HG2	1:C:289:ILE:HD13	1.65	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: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: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:A:72:GLU:HB3	1:A:183:ARG:HH11	0.64	0.77
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:H:44:MET:CG	1:J:150:GLY:C	2.54	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:61:LYS:HG2	1:G:289:ILE:HD13	1.65	0.77
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:50:LYS:CG	1:G:148:THR:CG2	2.55	0.76
1:I:110:LEU:CB	1:I:159:VAL:HG21	2.14	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: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:H:245:GLY:O	1:J:324:THR:OG1	2.01	0.76
1:B:44:MET:CE	1:D:149:THR:O	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: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:I:110:LEU:H	1:I:161:HIS:HE1	0.88	0.76
1:A:41:GLN:NE2	1:C:355:MET:HE1	1.98	0.76
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:C:41:GLN:HE21	1:E:355:MET:HE3	1.49	0.76
1:G:45:VAL:O	1:I:142:LEU:HD12	1.34	0.76
1:A:44:MET:CG	1:C:150:GLY:C	2.54	0.75
1:B:44:MET:CG	1:D:150:GLY:C	2.54	0.75
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:A:245:GLY:O	1:C:324:THR:OG1	2.01	0.75
1:D:241:GLU:HG2	1:F:324:THR:OG1	1.84	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:B:245:GLY:O	1:D:324:THR:OG1	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:109:PRO:C	1:B:161:HIS:CE1	2.37	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:G:44:MET:CG	1:I:150:GLY:C	2.54	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:F:44:MET:CE	1:H:149:THR:O	2.14	0.74
1:H:45:VAL:HG13	1:J:141:SER:O	1.85	0.74
1:E:44:MET:CG	1:G:150:GLY:C	2.54	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:142:LEU:CD1	1:C:152:VAL:HG21	2.01	0.74
1:D:44:MET:CG	1:F:150:GLY:C	2.54	0.74
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:37:ARG:HH11	1:F:169:TYR:HH	1.35	0.74
1:D:109:PRO:C	1:D:161:HIS:CE1	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:44:MET:CG	1:E:150:GLY:C	2.54	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: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: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
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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:245:GLY:O	1:I:324:THR:OG1	2.01	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: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
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:A:245:GLY:HA2	1:C:325:MET:N	1.77	0.72
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:I:109:PRO:C	1:I:161:HIS:CE1	2.37	0.72
1:J:257:CYS:HB3	1:J:258:PRO:HD3	1.72	0.72
1:A:37:ARG:HH11	1:C:169:TYR:HH	1.36	0.72
1:C:111:ASN:C	1:C:177:ARG:HH22	1.93	0.72
1:D:44:MET:CE	1:F:149:THR:O	2.14	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:111:ASN:C	1:D:177:ARG:HH22	1.93	0.72
1:D:246:GLN:HB2	1:F:322:PRO:CG	2.18	0.72
1:E:41:GLN:NE2	1:G:355:MET:HE1	2.00	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:J:111:ASN:C	1:J:177:ARG:HH22	1.93	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
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:I:111:ASN:C	1:I:177:ARG:HH22	1.93	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:111:ASN:C	1:B:177:ARG:HH22	1.93	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:E:111:ASN:C	1:E:177:ARG:HH22	1.93	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:A:111:ASN:C	1:A:177:ARG:HH22	1.93	0.71
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:F:111:ASN:C	1:F:177:ARG:HH22	1.93	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:H:111:ASN:C	1:H:177:ARG:HH22	1.93	0.71
1:G:111:ASN:C	1:G:177:ARG:HH22	1.93	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:44:MET:CG	1:H:150:GLY:C	2.54	0.70
1:G:65:LEU:HG	1:I:166:TYR:CD2	2.26	0.70
1:H:246:GLN:HA	1:J:323:SER:N	2.04	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: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:E:51:ASP:CG	1:G:169:TYR:HH	1.95	0.70
1:B:34:ILE:HG22	1:B:84:LYS:HZ1	1.55	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:A:205:GLU:HA	1:A:208:ILE:HB	1.72	0.70
1:H:37:ARG:HH11	1:J:169:TYR:HH	1.37	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: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: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
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:C:51:ASP:CG	1:E:169:TYR:HH	1.94	0.69
1:E:205:GLU:CG	1:G:287:VAL:HG11	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H:34:ILE:HG22	1:H:84:LYS:HZ1	1.56	0.69
1:A:41:GLN:HE21	1:C:355:MET:HE3	1.58	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:G:34:ILE:HG22	1:G:84:LYS:HZ1	1.58	0.69
1:G:109:PRO:C	1:G:161:HIS:CE1	2.37	0.69
1:G:245:GLY:O	1:I:323:SER:N	2.24	0.69
1:H:245:GLY:C	1:J:324:THR:HG1	1.89	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: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
1:E:245:GLY:CA	1:G:324:THR:CB	2.65	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: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:205:GLU:CB	1:I:287:VAL:CG1	2.71	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:J:142:LEU:CD1	1:J:152:VAL:HG21	2.01	0.68
1:B:51:ASP:CG	1:D:169:TYR:HH	1.95	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: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:E:240:TYR:HB3	1:E:248:ILE:HD12	1.74	0.68
1:A:205:GLU:CB	1:C:287:VAL:CG1	2.71	0.68
1:D:34:ILE:HG22	1:D:84:LYS:HG3	1.76	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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:41:GLN:HE21	1:G:355:MET:HE3	1.55	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:G:51:ASP:CG	1:I:169:TYR:HH	1.96	0.67
1:B:41:GLN:NE2	1:D:355:MET:HE1	2.09	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:G:246:GLN:CA	1:I:323:SER:H	2.05	0.67
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:H:205:GLU:CG	1:J:287:VAL:HG11	2.20	0.67
1:B:245:GLY:CA	1:D:324:THR:C	2.35	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:E:245:GLY:CA	1:G:322:PRO:C	2.63	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:44:MET:HG3	1:J:150:GLY:O	1.94	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:B:245:GLY:CA	1:D:322:PRO:C	2.63	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:74:GLY:CA	1:G:157:ASP:CB	2.65	0.66
1:H:41:GLN:NE2	1:J:355:MET:CE	2.53	0.66
1:F:109:PRO:C	1:F:161:HIS:CE1	2.37	0.66
1:A:203:THR:HG22	1:C:288:ASP:OD2	1.94	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:41:GLN:NE2	1:D:355:MET:CE	2.53	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:G:245:GLY:CA	1:I:322:PRO:C	2.63	0.66
1:E:203:THR:HB	1:G:288:ASP:H	1.61	0.66
1:A:203:THR:HB	1:C:288:ASP:H	1.61	0.66
1:H:109:PRO:C	1:H:161:HIS:CE1	2.37	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:C:47:MET:C	1:E:148:THR:HG23	2.17	0.66
1:D:41:GLN:NE2	1:F:355:MET:HE1	2.08	0.65
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:E:47:MET:C	1:G:148:THR:HG23	2.17	0.65
1:A:47:MET:C	1:C: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:B:47:MET:C	1:D:148:THR:HG23	2.17	0.65
1:C:41:GLN:NE2	1:E:355:MET:HE1	2.05	0.65
1:E:109:PRO:C	1:E:161:HIS:CE1	2.37	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:B:246:GLN:CA	1:D:323:SER:N	2.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:245:GLY:CA	1:E:322:PRO:C	2.63	0.65
1:D:203:THR:HB	1:F:288:ASP:H	1.61	0.65
1:B:203:THR:HB	1:D:288:ASP:H	1.61	0.65
1:E:245:GLY:C	1:G:324:THR:HG1	1.95	0.65
1:G:50:LYS:HE3	1:I:167:GLU:OE1	1.97	0.65
1:A:246:GLN:CA	1:C:323:SER:N	2.60	0.65
1:E:50:LYS:HE3	1:G:167:GLU:OE1	1.97	0.65
1:G:203:THR:HB	1:I:288:ASP:H	1.61	0.65
1:B:48:GLY:O	1:D:148:THR:CG2	2.44	0.65
1:D:245:GLY:CA	1:F:322:PRO:C	2.63	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
1:H:65:LEU:CD1	1:J:166:TYR:HE2	2.05	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:H:245:GLY:CA	1:J:322:PRO:C	2.63	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:E:246:GLN:CA	1:G:323:SER:N	2.60	0.64
1:G:47:MET:C	1:I:148:THR:HG23	2.17	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:F:245:GLY:CA	1:H:322:PRO:C	2.63	0.64
1:F:245:GLY:C	1:H:324:THR:HG1	1.91	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: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:J:109:PRO:C	1:J:161:HIS:CE1	2.37	0.64
1:C:41:GLN:NE2	1:E:355:MET:CE	2.53	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:245:GLY:CA	1:C:322:PRO:C	2.63	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: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
1:A:50:LYS:CG	1:C:148:THR:CG2	2.55	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:I:109:PRO:N	1:I:159:VAL:HG12	2.02	0.63
1:G:65:LEU:HD12	1:I:166:TYR:HE2	1.59	0.63
1:H:41:GLN:NE2	1:J:355:MET:HE1	2.09	0.63
1:A:41:GLN:NE2	1:C:355:MET:CE	2.53	0.63
1:A:51:ASP:CG	1:C:169:TYR:OH	2.37	0.63
1:B:203:THR:CB	1:D:288:ASP:OD2	2.47	0.63
1:F:44:MET:HG3	1:H:150:GLY:O	1.94	0.63
1:G:51:ASP:CG	1:I:169:TYR:OH	2.37	0.63
1:J:242:LEU:HD23	1:J:246:GLN:HB3	1.79	0.63
1:B:51:ASP:CG	1:D:169:TYR:OH	2.37	0.63
1:E:65:LEU:HD12	1:G:166:TYR:HE2	1.59	0.63
1:A:51:ASP:CB	1:C:169:TYR:OH	2.46	0.63
1:D:51:ASP:CG	1:F:169:TYR:OH	2.37	0.63
1:C:51:ASP:CG	1:E:169:TYR:OH	2.37	0.63
1:D:245:GLY:CA	1:F:324:THR:CB	2.65	0.63
1:E:51:ASP:CG	1:G:169:TYR:OH	2.37	0.63
1:F:203:THR:CB	1:H:288:ASP:OD2	2.47	0.63
1:A:44:MET:HG3	1:C:150:GLY:O	1.94	0.63
1:D:44:MET:HG3	1:F:150:GLY:O	1.94	0.63
1:F:110:LEU:CA	1:F:159:VAL:HG21	2.20	0.63
1:C:203:THR:CB	1:E:288:ASP:OD2	2.47	0.63
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:G:41:GLN:NE2	1:I:355:MET:HE3	2.13	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:F:245:GLY:CA	1:H:324:THR:C	2.35	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:F:51:ASP:CG	1:H:169:TYR:OH	2.37	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: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: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:F:51:ASP:CG	1:H:169:TYR:HH	2.03	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:H:47:MET:C	1:J:148:THR:HG23	2.17	0.62
1:H:51:ASP:CG	1:J:169:TYR:OH	2.37	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:D:41:GLN:NE2	1:F:355:MET:CE	2.53	0.62
1:H:110:LEU:HD11	1:H:178:LEU:CA	2.23	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:G:41:GLN:NE2	1:I:355:MET:CE	2.53	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: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:F:196:ARG:HA	1:G:113:LYS:NZ	2.15	0.61
1:A:65:LEU:HD12	1:C:166:TYR:HE2	1.59	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:I:73:HIS:N	1:I:75:ILE:O	2.31	0.61
1:D:5:ILE:HD11	1:D:100:GLU:O	2.01	0.61
1:D:44:MET:HG3	1:F:149:THR:C	2.17	0.61
1:E:37:ARG:HH11	1:G:169:TYR:HH	1.48	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:B:73:HIS:N	1:B:75:ILE:O	2.31	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:A:107:GLU:HG2	1:A:134:VAL:HG12	1.83	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
1:E:108:ALA:C	1:E:159:VAL:HG12	2.21	0.61
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: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:41:GLN:NE2	1:G:355:MET:CE	2.53	0.61
1:G:65:LEU:HD11	1:I:166:TYR:CZ	2.35	0.61
1:G:73:HIS:N	1:G:75:ILE:O	2.31	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:108:ALA:C	1:I:159:VAL:HG12	2.21	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:204:ALA:HB2	1:D:288:ASP:HB3	1.83	0.60
1:C:357:ILE:HG23	1:C:369:ILE:HD13	1.83	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:H:73:HIS:N	1:H:75:ILE:O	2.31	0.60
1:I:107:GLU:HG2	1:I:134:VAL:HG12	1.83	0.60
1:A:245:GLY:C	1:C:323:SER:CA	2.68	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:GLY:N	1:A:157:ASP:OD2	2.34	0.60
1:E:69:TYR:HB2	1:E:83:GLU:HB2	1.83	0.60
1:F:47:MET:C	1:H:148:THR:HG23	2.17	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: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:44:MET:HG3	1:C:149:THR:C	2.17	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
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:E:65:LEU:CD1	1:G:166:TYR:CZ	2.84	0.60
1:E:245:GLY:CA	1:G:324:THR:C	2.35	0.60
1:G:41:GLN:C	1:I:169:TYR:CD1	2.75	0.60
1:G:330:ILE:HG22	1:G:332:PRO:HD3	1.83	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: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: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:A:41:GLN:C	1:C:169:TYR:CD1	2.75	0.60
1:C:142:LEU:CD1	1:C:152:VAL:HG22	2.14	0.60
1:D:47:MET:C	1:F:148:THR:HG23	2.17	0.60
1:E:73:HIS:N	1:E:75:ILE:O	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:61:LYS:HA	1:D:289:ILE:HD13	1.84	0.60
1:C:245:GLY:C	1:E:323:SER:CA	2.68	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: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:41:GLN:NE2	1:H:355:MET:HE3	2.13	0.60
1:F:74:GLY:N	1:F:157:ASP:OD2	2.34	0.60
1:F:237:GLU:HA	1:F:250:ILE:O	2.01	0.60
1:G:37:ARG:HH11	1:I:169:TYR:HH	1.47	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
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:B:245:GLY:C	1:D:323:SER:CA	2.68	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:D:245:GLY:C	1:F:323:SER:CA	2.68	0.59
1:F:65:LEU:CD1	1:H:166:TYR:CZ	2.84	0.59
1:G:246:GLN:CA	1:I:322:PRO:CA	2.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:59:GLN:O	1:B:62:ARG:HB3	2.02	0.59
1:C:46:GLY:O	1:E:148:THR:N	2.36	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:E:245:GLY:C	1:G:323:SER:CA	2.68	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:245:GLY:CA	1:F:324:THR:C	2.35	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:G:196:ARG:HA	1:H:113:LYS:HZ3	1.66	0.59
1:A:46:GLY:O	1:C:148:THR:N	2.36	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
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:G:245:GLY:C	1:I:323:SER:CA	2.68	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:E:41:GLN:C	1:G:169:TYR:CD1	2.75	0.59
1:E:196:ARG:HA	1:F:113:LYS:HZ3	1.67	0.59
1:F:72:GLU:CD	1:F:183:ARG:NH1	2.56	0.59
1:G:46:GLY:O	1:I:148:THR:N	2.36	0.59
1:G:72:GLU:CD	1:G:183:ARG:NH1	2.56	0.59
1:G:73:HIS:CD2	1:G:183:ARG:NH2	2.70	0.59
1:D:245:GLY:C	1:F:324:THR:HG1	1.95	0.59
1:F:246:GLN:CA	1:H:322:PRO:CA	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:A:37:ARG:NH1	1:C:169:TYR:HH	2.01	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:73:HIS:N	1:F:75:ILE:O	2.31	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:C:72:GLU:CD	1:C:183:ARG:NH1	2.56	0.58
1:C:110:LEU:CD1	1:C:178:LEU:C	2.71	0.58
1:D:37:ARG:NH1	1:F:169:TYR:HH	2.00	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:C:73:HIS:N	1:C:75:ILE:O	2.31	0.58
1:E:142:LEU:CD1	1:E:152:VAL:HG22	2.14	0.58
1:F:44:MET:HG3	1:H:149:THR:C	2.17	0.58
1:C:44:MET:HG3	1:E:149:THR:C	2.17	0.58
1:D:201:THR:O	1:E:270:GLU:OE2	2.20	0.58
1:E:110:LEU:CD1	1:E:178:LEU:C	2.71	0.58
1:J:72:GLU:CD	1:J:183:ARG:NH1	2.56	0.58
1:C:64:ILE:CD1	1:E:166:TYR:HB3	2.30	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: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: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:H:74:GLY:CA	1:H:158:GLY:HA3	2.31	0.58
1:I:110:LEU:CD1	1:I:178:LEU:C	2.71	0.58
1:A:110:LEU:CD1	1:A:178:LEU:C	2.71	0.58
1:B:110:LEU:CD1	1:B:178:LEU:C	2.71	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:110:LEU:CD1	1:D:178:LEU:C	2.71	0.58
1:E:46:GLY:O	1:G:148:THR:N	2.36	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:H:51:ASP:CG	1:J:169:TYR:HH	2.06	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:D:41:GLN:C	1:F:169:TYR:CD1	2.75	0.58
1:D:72:GLU:CD	1:D:183:ARG:NH1	2.56	0.58
1:E:72:GLU:CD	1:E:183:ARG:NH1	2.56	0.58
1:E:218:TYR:O	1:E:255:PHE:HA	2.04	0.58
1:H:72:GLU:CD	1:H:183:ARG:NH1	2.56	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:A:72:GLU:CD	1:A:183:ARG:NH1	2.56	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:41:GLN:C	1:H:169:TYR:CD1	2.75	0.58
1:F:64:ILE:CD1	1:H:166:TYR:HB3	2.30	0.58
1:F:110:LEU:CD1	1:F:178:LEU:C	2.71	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:110:LEU:CD1	1:J:178:LEU:C	2.71	0.58
1:J:218:TYR:O	1:J:255:PHE:HA	2.04	0.58
1:A:51:ASP:CG	1:C:169:TYR:HH	2.07	0.58
1:B:72:GLU:CD	1:B:183:ARG:NH1	2.56	0.58
1:H:110:LEU:CD1	1:H:178:LEU:C	2.71	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: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:110:LEU:CD1	1:G:178:LEU:C	2.71	0.57
1:I:72:GLU:CD	1:I:183:ARG:NH1	2.56	0.57
1:A:34:ILE:HG23	1:A:81:ASP:OD1	1.91	0.57
1:D:196:ARG:HA	1:E:113:LYS:HZ3	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:41:GLN:NE2	1:H:355:MET:CE	2.53	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: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: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: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:A:205:GLU:CA	1:C:287:VAL:HG12	2.33	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:E:138:ALA:CB	1:E:154:ASP:HB3	1.98	0.57
1:H:244:ASP:O	1:J:322:PRO:CD	2.53	0.57
1:J:78:ASN:OD1	1:J:81:ASP:HB2	2.05	0.57
1:B:41:GLN:C	1:D:169:TYR:CD1	2.75	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:A:73:HIS:N	1:A:75:ILE:O	2.31	0.57
1:B:205:GLU:CA	1:D:287:VAL:HG12	2.33	0.57
1:D:44:MET:HG2	1:F:165:ILE:CB	2.22	0.57
1:D:44:MET:HB2	1:F:165:ILE:C	2.25	0.57
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:H:37:ARG:NH1	1:J:169:TYR:HH	2.03	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:196:ARG:HA	1:B:113:LYS:HZ3	1.69	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:44:MET:HB2	1:E:165:ILE:C	2.25	0.57
1:D:244:ASP:O	1:F:322:PRO:HD2	2.05	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:44:MET:HB2	1:I:165:ILE:C	2.26	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:H:41:GLN:C	1:J:169:TYR:CD1	2.75	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:E:244:ASP:O	1:G:322:PRO:HD2	2.05	0.57
1:H:44:MET:HB2	1:J:165:ILE:C	2.26	0.57
1:H:244:ASP:O	1:J:322:PRO:HD2	2.05	0.57
1:B:37:ARG:HH11	1:D:169:TYR:HH	1.48	0.56
1:B:46:GLY:O	1:D:148:THR:N	2.36	0.56
1:F:44:MET:HB2	1:H:165:ILE:C	2.26	0.56
1:G:142:LEU:CD1	1:G:152:VAL:HG22	2.14	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:E:44:MET:HB2	1:G:165:ILE:C	2.25	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
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:44:MET:HB2	1:D:165:ILE:C	2.26	0.56
1:B:244:ASP:O	1:D:322:PRO:CD	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:355:MET:HE3	2.18	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:J:74:GLY:C	1:J:158:GLY:HA3	2.26	0.56
1:C:41:GLN:C	1:E:169:TYR:CD1	2.75	0.56
1:E:74:GLY:C	1:E:158:GLY:HA3	2.26	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:A:44:MET:HB2	1:C:165:ILE:C	2.26	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:D:51:ASP:CG	1:F:169:TYR:HH	2.08	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:G:74:GLY:C	1:G:158:GLY:HA3	2.26	0.56
1:G:245:GLY:CA	1:I:324:THR:C	2.35	0.56
1:A:260:ALA:HB1	1:A:267:LEU:HG	1.88	0.56
1:B:74:GLY:C	1:B:158:GLY:HA3	2.26	0.56
1:C:74:GLY:C	1:C:158:GLY:HA3	2.26	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:74:GLY:C	1:D:158:GLY:HA3	2.26	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:HG3	1:G:149:THR:C	2.17	0.56
1:E:44:MET:HG2	1:G:165:ILE:CB	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:74:GLY:C	1:H:158:GLY:HA3	2.26	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
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:F:108:ALA:CB	1:F:159:VAL:CG1	2.79	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:B:204:ALA:HB2	1:D:288:ASP:C	2.26	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:I:108:ALA:CA	1:I:159:VAL:CG1	2.83	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: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:204:ALA:HB2	1:F:288:ASP:C	2.26	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:H:44:MET:HG3	1:J:149:THR:C	2.17	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:204:ALA:HB2	1:G:288:ASP:C	2.27	0.55
1:E:246:GLN:CB	1:G:322:PRO:CA	2.84	0.55
1:F:74:GLY:C	1:F:158:GLY:HA3	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:246:GLN:N	1:G:322:PRO:HB2	1.95	0.55
1:I:74:GLY:C	1:I:158:GLY:HA3	2.26	0.55
1:J:112:PRO:N	1:J:177:ARG:HH22	2.05	0.55
1:A:74:GLY:C	1:A:158:GLY:HA3	2.26	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: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:F:204:ALA:HB2	1:H:288:ASP:C	2.27	0.55
1:G:34:ILE:HG22	1:G:84:LYS:NZ	2.22	0.55
1:B:44:MET:HG3	1:D:149:THR:C	2.17	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
1:C:44:MET:HG2	1:E:165:ILE:CB	2.22	0.55
1:C:204:ALA:CB	1:E:291:LYS:HE2	2.36	0.55
1:F:245:GLY:C	1:H:323:SER:CA	2.68	0.55
1:G:110:LEU:HB3	1:G:179:ASP:OD1	2.07	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:H:245:GLY:CA	1:J:324:THR:C	2.35	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:F:196:ARG:HA	1:G:113:LYS:HZ3	1.70	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:G:44:MET:HG3	1:I:149:THR:C	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H:204:ALA:HB2	1:J:288:ASP:C	2.27	0.54
1:H:245:GLY:C	1:J:323:SER:CA	2.68	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:G:112:PRO:N	1:G:177:ARG:HH22	2.05	0.54
1:H:45:VAL:CG1	1:J:141:SER:O	2.50	0.54
1:I:110:LEU:CA	1:I:159:VAL:HG21	2.21	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:41:GLN:NE2	1:H:355:MET:HE1	2.13	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:F:110:LEU:HB3	1:F:179:ASP:OD1	2.07	0.54
1:G:204:ALA:HB2	1:I:288:ASP:C	2.26	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:108:ALA:CB	1:D:159:VAL:CG1	2.79	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:108:ALA:CA	1:C:159:VAL:CG1	2.83	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:196:ARG:HA	1:I:113:LYS:HZ3	1.72	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:41:GLN:NE2	1:D:355:MET:HE3	2.18	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
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: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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:41:GLN:NE2	1:I:355:MET:HE1	2.13	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:A:204:ALA:HB2	1:C:288:ASP:C	2.27	0.53
1:D:41:GLN:NE2	1:F:355:MET:HE3	2.19	0.53
1:F:108:ALA:CA	1:F:159:VAL:CG1	2.83	0.53
1:G:51:ASP:CG	1:I:169:TYR:CZ	2.82	0.53
1:H:51:ASP:CG	1:J:169:TYR:CZ	2.82	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:D:51:ASP:CG	1:F:169:TYR:CZ	2.82	0.53
1:H:203:THR:CG2	1:J:288:ASP:OD2	2.56	0.53
1:A:51:ASP:CG	1:C:169:TYR:CZ	2.82	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:G:43:VAL:HG21	1:G:49:GLN:CA	2.32	0.53
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: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:A:74:GLY:N	1:A:157:ASP:CG	2.62	0.52
1:B:74:GLY:N	1:B:157:ASP:CG	2.62	0.52
1:C:45:VAL:HG12	1:E:142:LEU:HD12	1.89	0.52
1:C:74:GLY:N	1:C:157:ASP:CG	2.62	0.52
1:D:74:GLY:N	1:D:157:ASP:CG	2.62	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:74:GLY:N	1:F:157:ASP:CG	2.62	0.52
1:H:74:GLY:N	1:H:157:ASP:CG	2.62	0.52
1:I:8:LEU:HD22	1:I:21:PHE:HE1	1.74	0.52
1:J:74:GLY:N	1:J:157:ASP:CG	2.62	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:51:ASP:CG	1:E:169:TYR:CZ	2.82	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:F:51:ASP:CG	1:H:169:TYR:CZ	2.82	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: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:74:GLY:N	1:E:157:ASP:CG	2.62	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:51:ASP:CG	1:D:169:TYR:CZ	2.82	0.52
1:B:61:LYS:CG	1:D:289:ILE:HD13	2.36	0.52
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:74:GLY:N	1:G:157:ASP:CG	2.62	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:I:74:GLY:N	1:I:157:ASP:CG	2.62	0.52
1:B:64:ILE:HD11	1:D:166:TYR:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:E:51:ASP:CG	1:G:169:TYR:CZ	2.82	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: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:C:245:GLY:CA	1:E:324:THR:C	2.35	0.51
1:C:43:VAL:HG21	1:C:49:GLN:CA	2.32	0.51
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:45:VAL:CG1	1:E:141:SER:O	2.50	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: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:C:204:ALA:HB2	1:E:288:ASP:C	2.27	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: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
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:203:THR:O	1:J:288:ASP:OD1	2.23	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:B:242:LEU:C	1:D:325:MET:HE2	2.33	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:203:THR:O	1:C:288:ASP:OD1	2.23	0.49
1:B:37:ARG:NH1	1:D:169:TYR:CE1	2.81	0.49
1:B:69:TYR:HB3	1:B:83:GLU:CA	2.42	0.49
1:B:203:THR:HG21	1:D:286:ASP:OD2	2.13	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: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:203:THR:O	1:I:288:ASP:OD1	2.23	0.49
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: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:J:34:ILE:HA	1:J:84:LYS:HG3	1.94	0.49
1:D:209:VAL:HA	1:D:212:ILE:HD12	1.95	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: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:202:THR:HG23	1:I:286:ASP:CA	2.26	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:C:209:VAL:HA	1:C:212:ILE:HD12	1.95	0.49
1:C:242:LEU:C	1:E:325:MET:HE1	2.33	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:F:45:VAL:CB	1:H:152:VAL:HG21	2.23	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:B:203:THR:O	1:D:288:ASP:OD1	2.23	0.48
1:D:34:ILE:HA	1:D:84:LYS:HG3	1.94	0.48
1:E:202:THR:HG23	1:G:286:ASP:CA	2.26	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:C:37:ARG:NH1	1:E:169:TYR:CE1	2.81	0.48
1:H:34:ILE:HA	1:H:84:LYS:HG3	1.94	0.48
1:A:65:LEU:HD11	1:C:166:TYR:CD2	2.45	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: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:C:41:GLN:NE2	1:E:355:MET:HE3	2.21	0.48
1:C:203:THR:O	1:E:288:ASP:OD1	2.23	0.48
1:E:45:VAL:CB	1:G:152:VAL:HG21	2.23	0.48
1:G:322:PRO:HB2	1:G:325:MET:HE3	1.95	0.48
1:I:145:SER:HB2	1:I:146:GLY:N	2.29	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: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
1:H:110:LEU:CB	1:H:179:ASP:OD1	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:322:PRO:HB2	1:I:325:MET:HE3	1.95	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:E:203:THR:O	1:G:288:ASP:OD2	2.17	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:C:202:THR:HG23	1:E:286:ASP:CA	2.26	0.48
1:C:322:PRO:HB2	1:C:325:MET:HE3	1.95	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:242:LEU:C	1:I:325:MET:HE2	2.33	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:357:ILE:HD11	1:B:374:CYS:SG	2.54	0.47
1:C:357:ILE:HD11	1:C:374:CYS:SG	2.54	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:44:MET:CG	1:J:149:THR:C	2.81	0.47
1:H:145:SER:HB2	1:H:146:GLY:N	2.29	0.47
1:H:242:LEU:C	1:J:325:MET:HE2	2.33	0.47
1:J:145:SER:HB2	1:J:146:GLY:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:205:GLU:CA	1:D:287:VAL:CG1	2.92	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: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: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: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:44:MET:CG	1:C:149:THR:C	2.81	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: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
1:E:242:LEU:C	1:G:325:MET:HE2	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:F:202:THR:HG23	1:H:286:ASP:CA	2.25	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: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: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: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: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
1:H:203:THR:HB	1:J:288:ASP:HB2	1.97	0.47
1:A:202:THR:HG23	1:C:286:ASP:CA	2.25	0.46
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:322:PRO:HB2	1:F:325:MET:HE3	1.95	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: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:A:242:LEU:C	1:C:325:MET:HE2	2.35	0.46
1:C:205:GLU:CA	1:E:287:VAL:CG1	2.92	0.46
1:F:60:SER:CB	1:H:288:ASP:HB2	2.45	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:44:MET:CG	1:G:149:THR:C	2.81	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:37:ARG:NH1	1:I:169:TYR:HH	2.12	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:202:THR:HG23	1:D:286:ASP:CA	2.26	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:202:THR:HG23	1:F:286:ASP:CA	2.25	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
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:D:60:SER:HB3	1:F:289:ILE:CA	2.29	0.46
1:F:44:MET:CG	1:H:149:THR:C	2.81	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:322:PRO:HB2	1:E:325:MET:HE2	1.95	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:H:37:ARG:NH1	1:J:169:TYR:OH	2.29	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: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: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: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:E:41:GLN:NE2	1:G:355:MET:HE3	2.27	0.46
1:F:60:SER:HB3	1:H: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
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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:242:LEU:C	1:H:325:MET:HE2	2.33	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:D:326:LYS:NZ	1:D:328:LYS:HD2	2.31	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: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:145:SER:C	1:D:147:ARG:H	2.08	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: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
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:I:145:SER:C	1:I:147:ARG:H	2.08	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:E:43:VAL:HG21	1:E:50:LYS:H	1.81	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
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:60:SER:HB3	1:J:289:ILE:CA	2.29	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:C:145:SER:C	1:C:147:ARG:H	2.08	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:A:110:LEU:HD13	1:A:178:LEU:C	2.37	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:E:110:LEU:HD13	1:E:178:LEU:C	2.37	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
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:I:110:LEU:HD13	1:I:178:LEU:C	2.37	0.45
1:J:110:LEU:HD13	1:J:178:LEU:C	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:H:322:PRO:HB2	1:H:325:MET:HE3	1.95	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:145:SER:C	1:H:147:ARG:H	2.08	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: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:A:245:GLY:CA	1:C:324:THR:C	2.35	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
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:H:110:LEU:HD13	1:H:178:LEU:C	2.37	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:44:MET:CG	1:F:149:THR:C	2.81	0.44
1:D:242:LEU:C	1:F:325:MET:HE2	2.35	0.44
1:F:48:GLY:N	1:H:148:THR:CG2	2.55	0.44
1:G:110:LEU:HD13	1:G:178:LEU:C	2.37	0.44
1:J:354:GLN:O	1:J:355:MET:HB2	2.18	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:B:44:MET:CG	1:D:149:THR:C	2.81	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: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: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: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
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:A:44:MET:HB3	1:A:47:MET:HE3	2.00	0.44
1:B:124:PHE:O	1:B:128:ASN:HA	2.18	0.44
1:C:110:LEU:HD13	1:C:178:LEU:C	2.37	0.44
1:D:72:GLU:C	1:D:157:ASP:OD2	2.57	0.44
1:D:75:ILE:HG12	1:D:158:GLY:CA	2.48	0.44
1:D:110:LEU:HD13	1:D:178:LEU:C	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:124:PHE:O	1:D:128:ASN:HA	2.18	0.44
1:F:110:LEU:HD13	1:F:178:LEU:C	2.37	0.44
1:G:72:GLU:C	1:G:157:ASP:OD2	2.56	0.44
1:H:72:GLU:C	1:H:157:ASP:OD2	2.56	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:B:110:LEU:HD13	1:B:178:LEU:C	2.37	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:H:354:GLN:O	1:H:355:MET:HB2	2.18	0.44
1:I:72:GLU:C	1:I:157:ASP:OD2	2.57	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: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:J:322:PRO:HB2	1:J:325:MET:HE3	1.96	0.43
1:B:37:ARG:NH1	1:D:169:TYR:HH	2.14	0.43
1:B:46:GLY:HA2	1:D:147:ARG:HD2	1.51	0.43
1:C:44:MET:CG	1:E:149:THR:C	2.81	0.43
1:F:72:GLU:C	1:F:157:ASP:OD2	2.56	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:A:72:GLU:C	1:A:157:ASP:OD2	2.57	0.43
1:G:47:MET:SD	1:I:167:GLU:HA	2.59	0.43
1:G:245:GLY:C	1:I:323:SER:C	2.57	0.43
1:I:124:PHE:O	1:I:128:ASN:HA	2.18	0.43
1:J:72:GLU:C	1:J:157:ASP:OD2	2.57	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:E:37:ARG:NH1	1:G:169:TYR:HH	2.14	0.43
1:E:72:GLU:C	1:E:157:ASP:OD2	2.57	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:A:47:MET:SD	1:C:167:GLU:HA	2.59	0.43
1:A:203:THR:OG1	1:C:286:ASP:C	2.57	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: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:203:THR:OG1	1:J:286:ASP:C	2.57	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:D:322:PRO:HB2	1:D:325:MET:HE3	1.96	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:G:245:GLY:C	1:I:324:THR:HG1	1.94	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:44:MET:HB3	1:F:47:MET:HE3	2.00	0.43
1:F:46:GLY:HA2	1:H:147:ARG:HD2	1.51	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:29:ALA:HB1	1:B:93:GLU:HG2	2.01	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:72:GLU:C	1:B:157:ASP:OD2	2.56	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:C:72:GLU:C	1:C:157:ASP:OD2	2.57	0.43
1:D:41:GLN:C	1:F:169:TYR:HD1	2.20	0.43
1:E:38:PRO:HD2	1:G:169:TYR:CZ	2.38	0.43
1:E:203:THR:OG1	1:G:286:ASP:C	2.57	0.43
1:F:203:THR:OG1	1:H:286:ASP:C	2.57	0.43
1:J:297:THR:O	1:J:330:ILE:N	2.52	0.43
1:A:37:ARG:HD2	1:C:169:TYR:OH	2.19	0.42
1:C:245:GLY:C	1:E:324:THR:HG1	1.97	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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:245:GLY:N	1:G:322:PRO:HB2	2.30	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
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: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: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: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:166:TYR:CE1	1:G:167:GLU:HG2	2.55	0.42
1:G:203:THR:O	1:I:288:ASP:OD2	2.17	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:244:ASP:O	1:J:322:PRO:O	2.38	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: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:G:203:THR:OG1	1:I:286:ASP:C	2.57	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:G:135:ALA:CB	1:G:140:LEU:HD11	2.49	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:C:203:THR:OG1	1:E:286:ASP:C	2.57	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:245:GLY:C	1:G:323:SER:C	2.57	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: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:45:VAL:CG1	1:F:141:SER:O	2.50	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
1:E:75:ILE:N	1:E:158:GLY:HA3	2.36	0.41
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:D:203:THR:OG1	1:F:286:ASP:C	2.57	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: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:111:ASN:C	1:J:177:ARG:NH2	2.70	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: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:41:GLN:C	1:G:169:TYR:HD1	2.20	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:B:287:VAL:O	1:B:291:LYS:NZ	2.53	0.41
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:F:38:PRO:HD2	1:H:169:TYR:CZ	2.38	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:A:245:GLY:C	1:C:324:THR:HG1	1.99	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
1:H:105:LEU:HD11	1:H:123:MET:HG3	2.02	0.41
1:I:111:ASN:C	1:I:177:ARG:NH2	2.70	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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: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:41:GLN:C	1:H:169:TYR:HD1	2.20	0.41
1:F:140:LEU:O	1:F:342:GLY:HA3	2.21	0.41
1:G:44:MET:CG	1:I:149:THR:C	2.81	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: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:245:GLY:C	1:C:323:SER:C	2.57	0.41
1:A:264:PRO:HD2	1:A:271:SER:O	2.20	0.41
1:A:341:ILE:HG22	1:A:341:ILE:O	2.21	0.41
1:C:223:PHE:CD1	1:C:259:GLU:HG3	2.56	0.41
1:C:245:GLY:C	1:E:323:SER:C	2.57	0.41
1:D:103:VAL:HG22	1:D:129:THR:HG21	2.02	0.41
1:D:223:PHE:CD1	1:D:259:GLU:HG3	2.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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:C:244:ASP:O	1:E:322:PRO:CA	2.69	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: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: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:HG22	1:C:341:ILE:O	2.22	0.40
1:D:111:ASN:C	1:D:177:ARG:NH2	2.70	0.40
1:E:108:ALA:CA	1:E:159:VAL:CG1	2.83	0.40
1:E:341:ILE:HG22	1:E:341:ILE:O	2.22	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:44:MET:HB3	1:B:47:MET:HE3	2.03	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:D:75:ILE:N	1:D:158:GLY:HA3	2.36	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: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:G:341:ILE:HG22	1:G:341:ILE:O	2.22	0.40
1:H:38:PRO:HD2	1:J:169:TYR:CZ	2.38	0.40
1:H:75:ILE:N	1:H:158:GLY:HA3	2.35	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: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
1:I:341:ILE:HG22	1:I:341:ILE:O	2.22	0.40
1:B:202:THR:HB	1:D:290:ARG:HD2	2.03	0.40
1:C:41:GLN:C	1:E:169:TYR:HD1	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:111:ASN:C	1:E:177:ARG:NH2	2.70	0.40
1:E:145:SER:C	1:E:147:ARG:H	2.08	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%)	4	28
1	B	361/374 (96%)	318 (88%)	33 (9%)	10 (3%)	5	30
1	C	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	4	28
1	D	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	4	28
1	E	361/374 (96%)	318 (88%)	33 (9%)	10 (3%)	5	30
1	F	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	4	28
1	G	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	4	28
1	H	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	4	28
1	I	361/374 (96%)	318 (88%)	33 (9%)	10 (3%)	5	30
1	J	361/374 (96%)	318 (88%)	32 (9%)	11 (3%)	4	28
2	K	107/109 (98%)	102 (95%)	5 (5%)	0	100	100
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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%)	9	34

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
1	G	203	THR
1	G	233	SER
1	G	355	MET
1	H	43	VAL
1	H	203	THR

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Mol	Chain	Res	Type
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
1	G	244	ASP
1	H	5	ILE
1	H	40	HIS
1	H	234	SER
1	H	244	ASP

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Mol	Chain	Res	Type
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%)	280 (88%)	37 (12%)	5	21
1	B	317/317 (100%)	280 (88%)	37 (12%)	5	21
1	C	317/317 (100%)	280 (88%)	37 (12%)	5	21
1	D	317/317 (100%)	280 (88%)	37 (12%)	5	21
1	E	317/317 (100%)	280 (88%)	37 (12%)	5	21
1	F	317/317 (100%)	280 (88%)	37 (12%)	5	21
1	G	317/317 (100%)	280 (88%)	37 (12%)	5	21
1	H	317/317 (100%)	280 (88%)	37 (12%)	5	21
1	I	317/317 (100%)	280 (88%)	37 (12%)	5	21
1	J	317/317 (100%)	280 (88%)	37 (12%)	5	21
2	K	93/93 (100%)	89 (96%)	4 (4%)	29	53
2	L	93/93 (100%)	89 (96%)	4 (4%)	29	53
2	M	93/93 (100%)	89 (96%)	4 (4%)	29	53
2	N	93/93 (100%)	89 (96%)	4 (4%)	29	53
2	O	93/93 (100%)	89 (96%)	4 (4%)	29	53
2	P	93/93 (100%)	89 (96%)	4 (4%)	29	53
2	Q	93/93 (100%)	89 (96%)	4 (4%)	29	53
2	R	93/93 (100%)	89 (96%)	4 (4%)	29	53
2	S	93/93 (100%)	89 (96%)	4 (4%)	29	53
2	T	93/93 (100%)	89 (96%)	4 (4%)	29	53
All	All	4100/4100 (100%)	3690 (90%)	410 (10%)	11	26

All (410) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	18	LYS
1	A	34	ILE
1	A	38	PRO
1	A	41	GLN
1	A	59	GLN
1	A	62	ARG
1	A	66	THR
1	A	80	ASP
1	A	93	GLU

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Mol	Chain	Res	Type
1	A	96	VAL
1	A	148	THR
1	A	149	THR
1	A	177	ARG
1	A	178	LEU
1	A	180	LEU
1	A	196	ARG
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	291	LYS
1	A	324	THR
1	A	335	ARG
1	A	336	LYS
1	A	346	LEU
1	A	350	SER
1	A	360	GLN
1	A	365	SER
1	A	368	SER
1	A	370	VAL
1	B	18	LYS
1	B	34	ILE
1	B	38	PRO
1	B	41	GLN
1	B	59	GLN
1	B	62	ARG
1	B	66	THR
1	B	80	ASP
1	B	93	GLU
1	B	96	VAL
1	B	148	THR
1	B	149	THR
1	B	177	ARG
1	B	178	LEU

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Mol	Chain	Res	Type
1	B	180	LEU
1	B	196	ARG
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	291	LYS
1	B	324	THR
1	B	335	ARG
1	B	336	LYS
1	B	346	LEU
1	B	350	SER
1	B	360	GLN
1	B	365	SER
1	B	368	SER
1	B	370	VAL
1	C	18	LYS
1	C	34	ILE
1	C	38	PRO
1	C	41	GLN
1	C	59	GLN
1	C	62	ARG
1	C	66	THR
1	C	80	ASP
1	C	93	GLU
1	C	96	VAL
1	C	148	THR
1	C	149	THR
1	C	177	ARG
1	C	178	LEU
1	C	180	LEU
1	C	196	ARG
1	C	203	THR
1	C	206	ARG
1	C	207	GLU

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Mol	Chain	Res	Type
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	291	LYS
1	C	324	THR
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	368	SER
1	C	370	VAL
1	D	18	LYS
1	D	34	ILE
1	D	38	PRO
1	D	41	GLN
1	D	59	GLN
1	D	62	ARG
1	D	66	THR
1	D	80	ASP
1	D	93	GLU
1	D	96	VAL
1	D	148	THR
1	D	149	THR
1	D	177	ARG
1	D	178	LEU
1	D	180	LEU
1	D	196	ARG
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

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Mol	Chain	Res	Type
1	D	246	GLN
1	D	247	VAL
1	D	265	SER
1	D	291	LYS
1	D	324	THR
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	368	SER
1	D	370	VAL
1	E	18	LYS
1	E	34	ILE
1	E	38	PRO
1	E	41	GLN
1	E	59	GLN
1	E	62	ARG
1	E	66	THR
1	E	80	ASP
1	E	93	GLU
1	E	96	VAL
1	E	148	THR
1	E	149	THR
1	E	177	ARG
1	E	178	LEU
1	E	180	LEU
1	E	196	ARG
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
1	E	246	GLN
1	E	247	VAL
1	E	265	SER
1	E	291	LYS
1	E	324	THR

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Mol	Chain	Res	Type
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	368	SER
1	E	370	VAL
1	F	18	LYS
1	F	34	ILE
1	F	38	PRO
1	F	41	GLN
1	F	59	GLN
1	F	62	ARG
1	F	66	THR
1	F	80	ASP
1	F	93	GLU
1	F	96	VAL
1	F	148	THR
1	F	149	THR
1	F	177	ARG
1	F	178	LEU
1	F	180	LEU
1	F	196	ARG
1	F	203	THR
1	F	206	ARG
1	F	207	GLU
1	F	208	ILE
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	291	LYS
1	F	324	THR
1	F	335	ARG
1	F	336	LYS
1	F	346	LEU
1	F	350	SER
1	F	360	GLN

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Mol	Chain	Res	Type
1	F	365	SER
1	F	368	SER
1	F	370	VAL
1	G	18	LYS
1	G	34	ILE
1	G	38	PRO
1	G	41	GLN
1	G	59	GLN
1	G	62	ARG
1	G	66	THR
1	G	80	ASP
1	G	93	GLU
1	G	96	VAL
1	G	148	THR
1	G	149	THR
1	G	177	ARG
1	G	178	LEU
1	G	180	LEU
1	G	196	ARG
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	291	LYS
1	G	324	THR
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	368	SER
1	G	370	VAL
1	H	18	LYS
1	H	34	ILE

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Mol	Chain	Res	Type
1	H	38	PRO
1	H	41	GLN
1	H	59	GLN
1	H	62	ARG
1	H	66	THR
1	H	80	ASP
1	H	93	GLU
1	H	96	VAL
1	H	148	THR
1	H	149	THR
1	H	177	ARG
1	H	178	LEU
1	H	180	LEU
1	H	196	ARG
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	291	LYS
1	H	324	THR
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	368	SER
1	H	370	VAL
1	I	18	LYS
1	I	34	ILE
1	I	38	PRO
1	I	41	GLN
1	I	59	GLN
1	I	62	ARG
1	I	66	THR

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Mol	Chain	Res	Type
1	I	80	ASP
1	I	93	GLU
1	I	96	VAL
1	I	148	THR
1	I	149	THR
1	I	177	ARG
1	I	178	LEU
1	I	180	LEU
1	I	196	ARG
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	291	LYS
1	I	324	THR
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	368	SER
1	I	370	VAL
1	J	18	LYS
1	J	34	ILE
1	J	38	PRO
1	J	41	GLN
1	J	59	GLN
1	J	62	ARG
1	J	66	THR
1	J	80	ASP
1	J	93	GLU
1	J	96	VAL
1	J	148	THR
1	J	149	THR

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Mol	Chain	Res	Type
1	J	177	ARG
1	J	178	LEU
1	J	180	LEU
1	J	196	ARG
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	291	LYS
1	J	324	THR
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	368	SER
1	J	370	VAL
2	K	47	GLN
2	K	95	ASP
2	K	108	ASN
2	K	136	MET
2	M	47	GLN
2	M	95	ASP
2	M	108	ASN
2	M	136	MET
2	L	47	GLN
2	L	95	ASP
2	L	108	ASN
2	L	136	MET
2	O	47	GLN
2	O	95	ASP
2	O	108	ASN
2	O	136	MET
2	N	47	GLN

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Mol	Chain	Res	Type
2	N	95	ASP
2	N	108	ASN
2	N	136	MET
2	Q	47	GLN
2	Q	95	ASP
2	Q	108	ASN
2	Q	136	MET
2	P	47	GLN
2	P	95	ASP
2	P	108	ASN
2	P	136	MET
2	S	47	GLN
2	S	95	ASP
2	S	108	ASN
2	S	136	MET
2	R	47	GLN
2	R	95	ASP
2	R	108	ASN
2	R	136	MET
2	T	47	GLN
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 (36) such sidechains are listed below:

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

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Mol	Chain	Res	Type
1	E	41	GLN
1	E	59	GLN
1	E	87	HIS
1	E	353	GLN
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	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 monosaccharides in this entry.

5.6 Ligand geometry

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
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

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

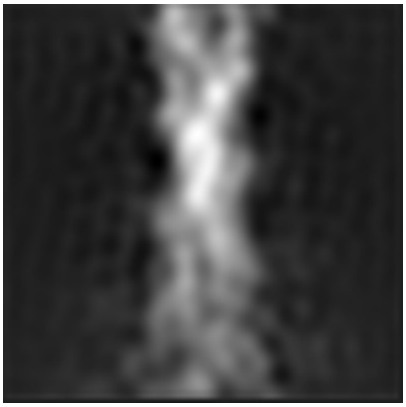
6 Map visualisation

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.

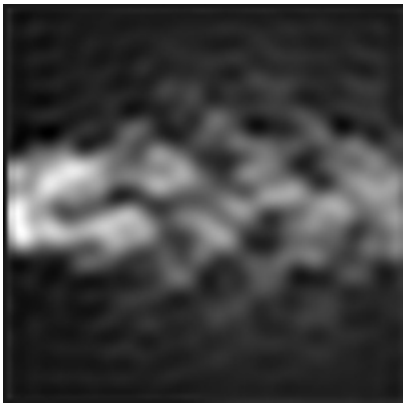
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

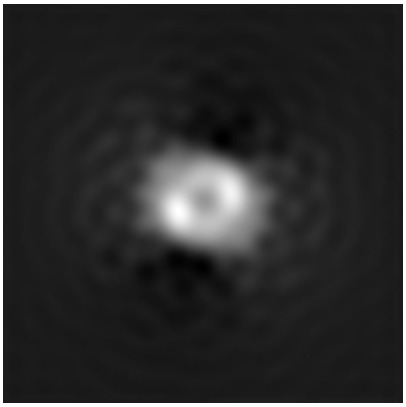
6.1.1 Primary map



X



Y

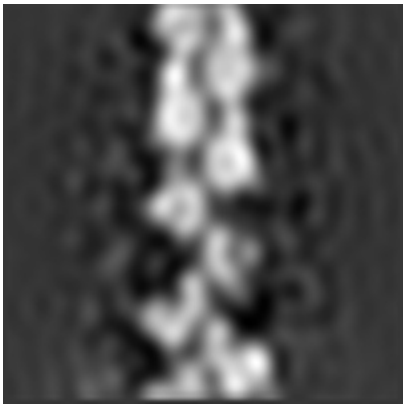


Z

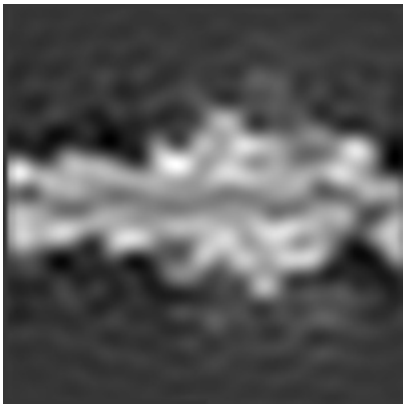
The images above show the map projected in three orthogonal directions.

6.2 Central slices

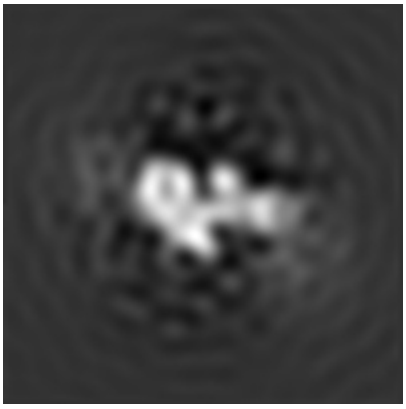
6.2.1 Primary map



X Index: 50



Y Index: 50

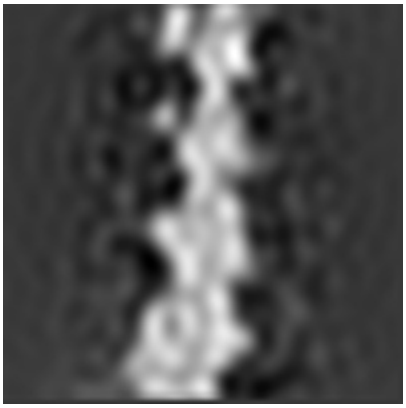


Z Index: 50

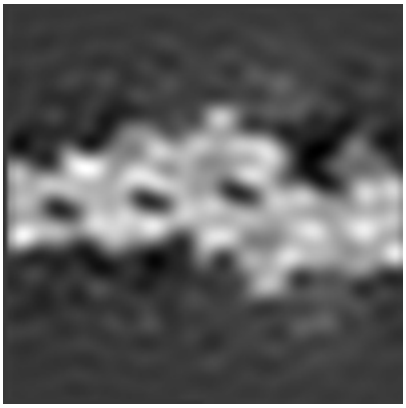
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

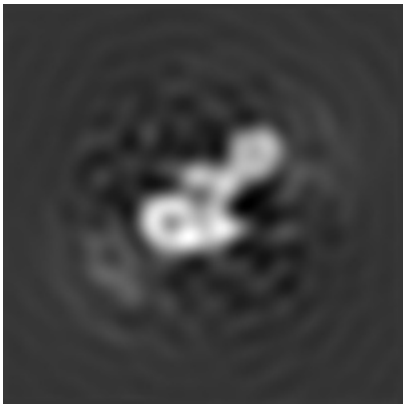
6.3.1 Primary map



X Index: 56



Y Index: 46



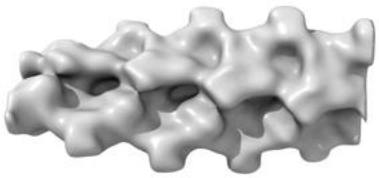
Z Index: 97

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

6.4 Orthogonal surface views (i)

6.4.1 Primary map

X



Y

Z

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

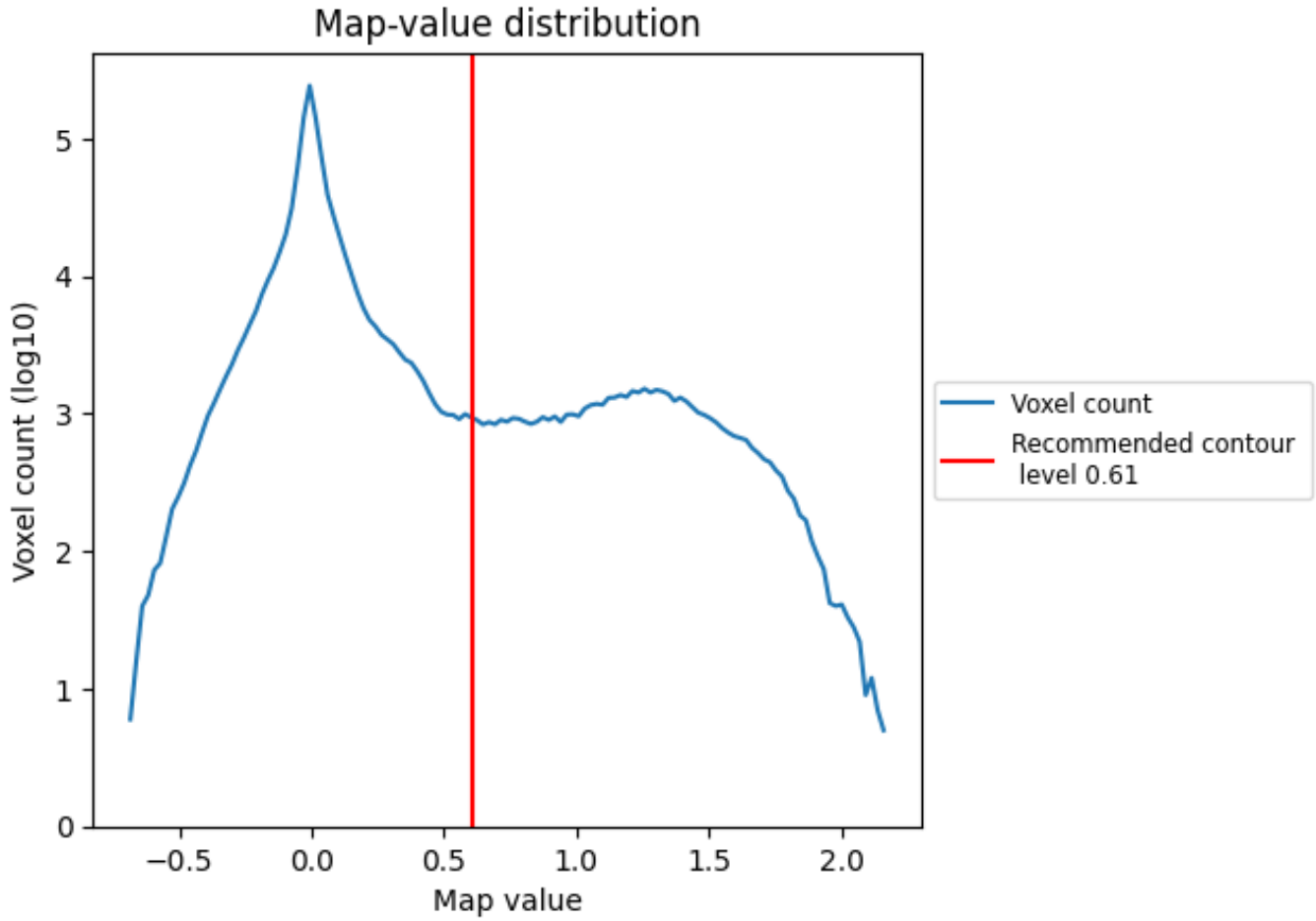
6.5 Mask visualisation (i)

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

7 Map analysis

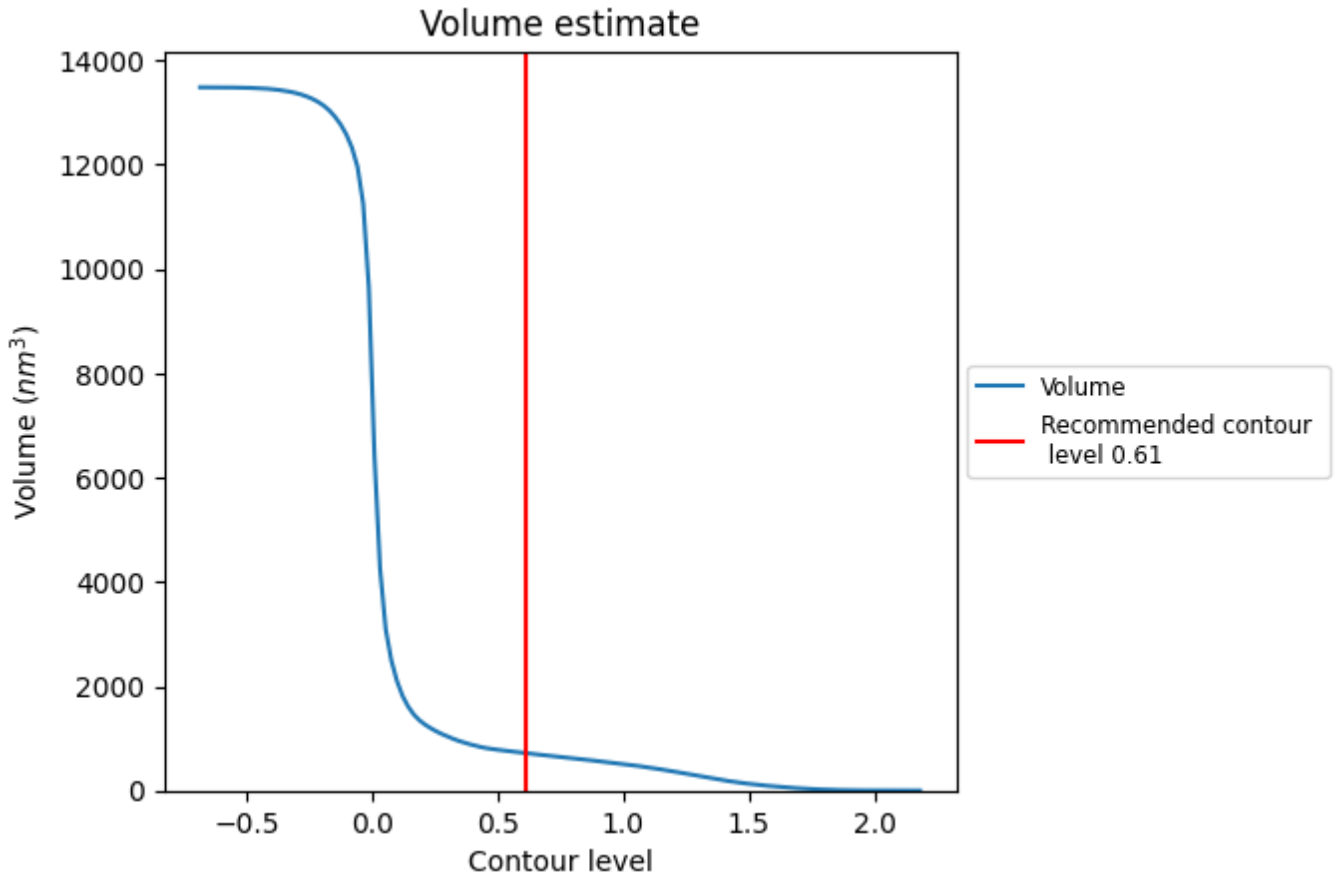
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

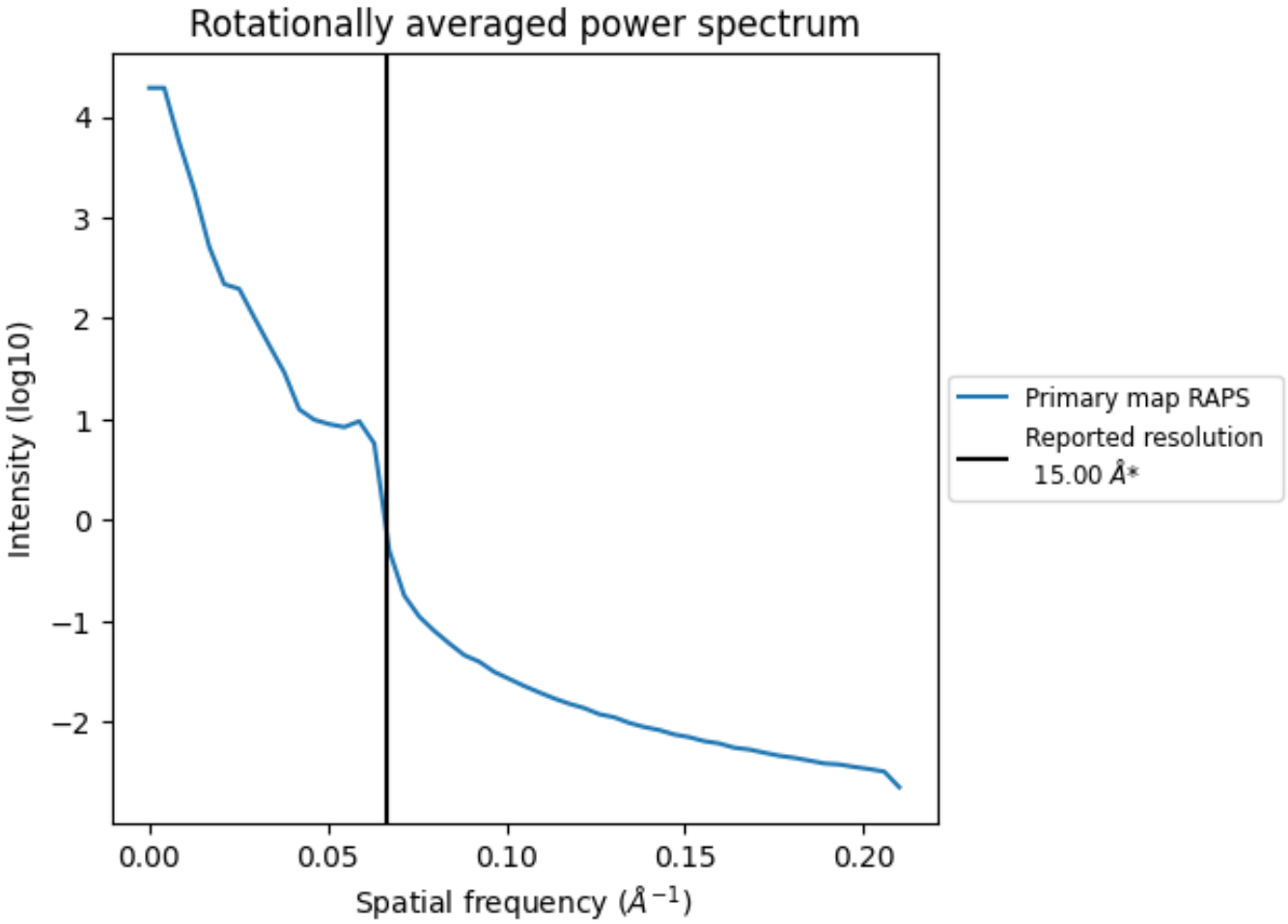
7.2 Volume estimate



The volume at the recommended contour level is 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 $Å^{-1}$

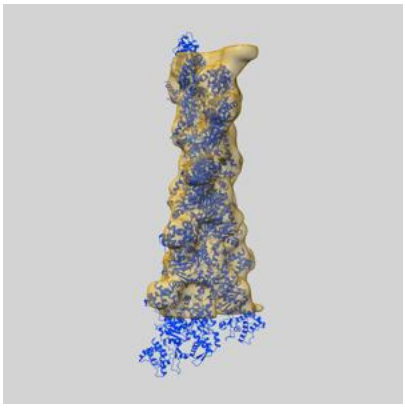
8 Fourier-Shell correlation

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

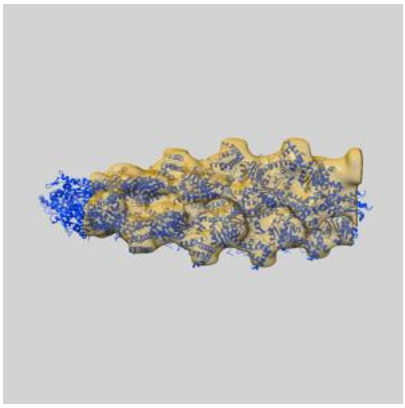
9 Map-model fit

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.

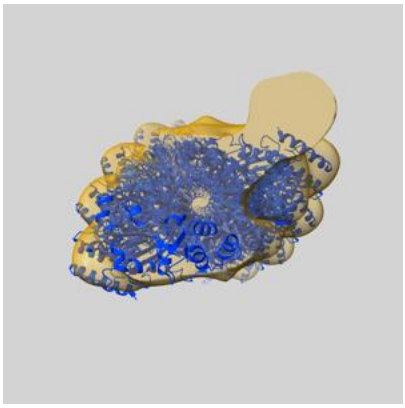
9.1 Map-model overlay



X



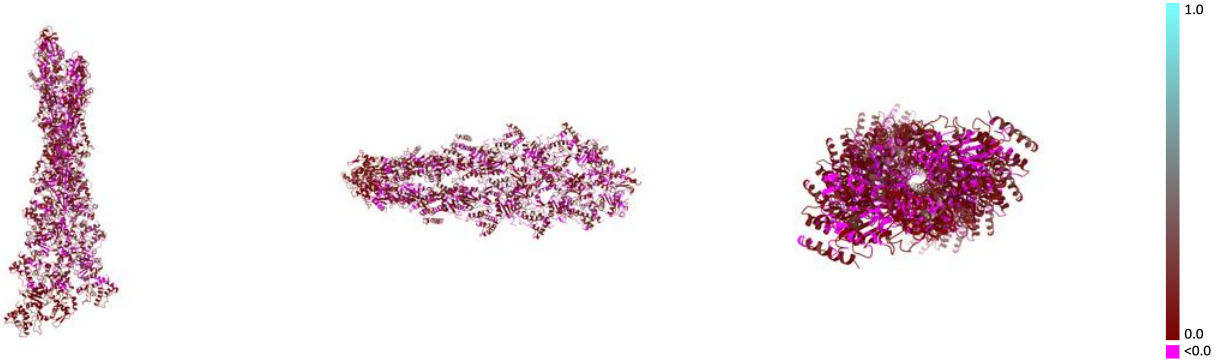
Y



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.

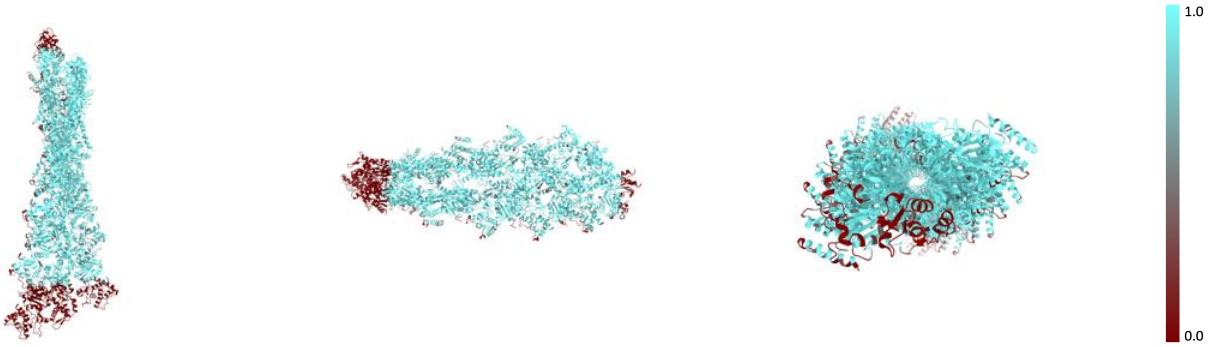
9.2 Q-score mapped to coordinate model



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.

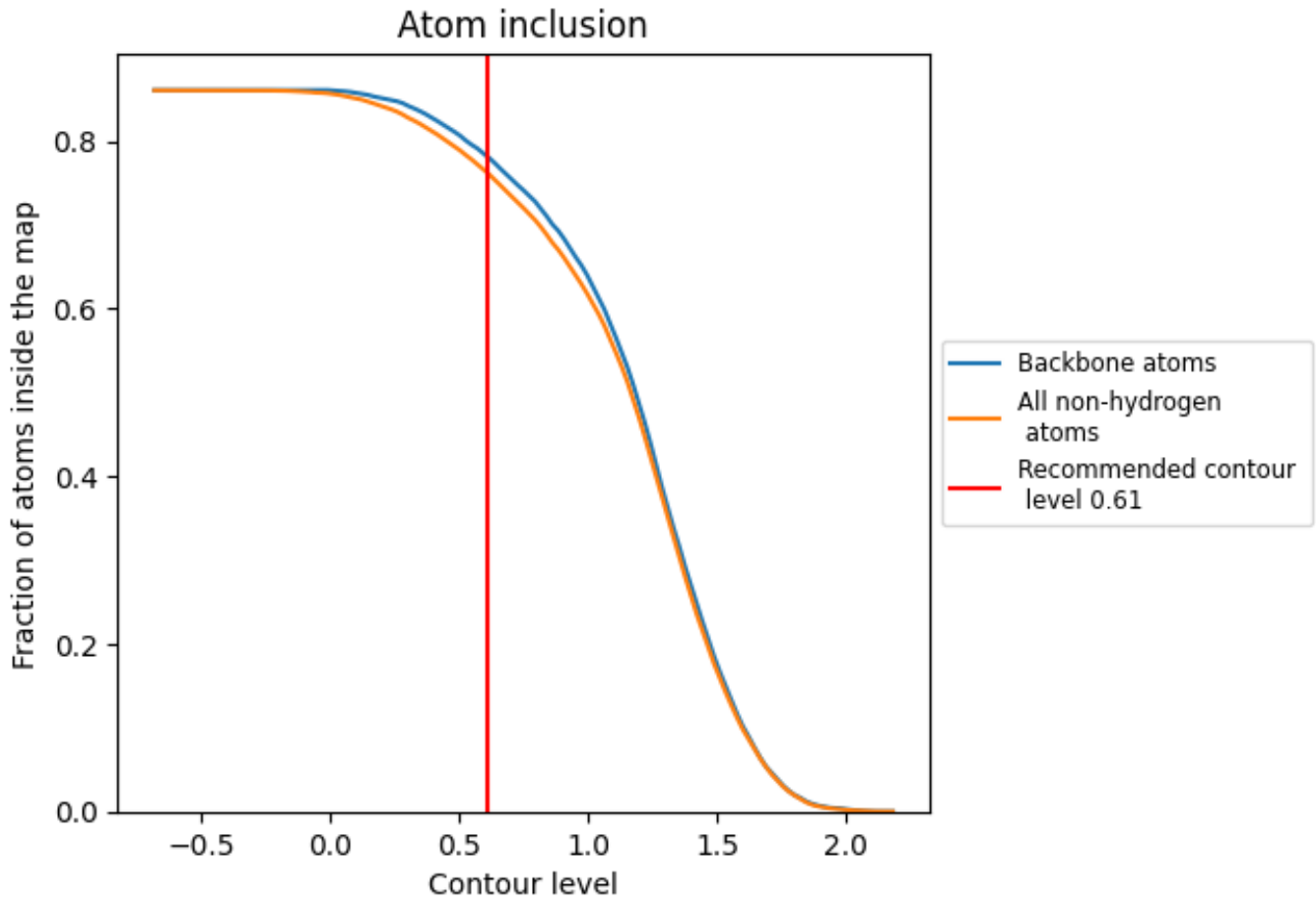
9.3 Atom inclusion mapped to coordinate model



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	0.7612	0.0490
A	0.6726	0.0430
B	0.9437	0.0540
C	0.9126	0.0600
D	0.9403	0.0550
E	0.9106	0.0620
F	0.9308	0.0540
G	0.9140	0.0630
H	0.9305	0.0580
I	0.7477	0.0460
J	0.1495	0.0060
K	0.6908	0.0540
L	0.6849	0.0550
M	0.8728	0.0630
N	0.6919	0.0540
O	0.8681	0.0640
P	0.7246	0.0570
Q	0.8098	0.0620
R	0.0502	-0.0190
S	0.7491	0.0560
T	0.0000	0.0000