Full wwPDB EM Validation Report (i)

Mar 4, 2024 – 10:00 AM EST

PDB ID	:	6E9V
EMDB ID	:	EMD-9018
Title	:	DHF79 filament
Authors	:	Lynch, E.M.; Shen, H.; Fallas, J.A.; Kollman, J.M.; Baker, D.
Deposited on	:	2018-08-01
Resolution	:	6.90 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:

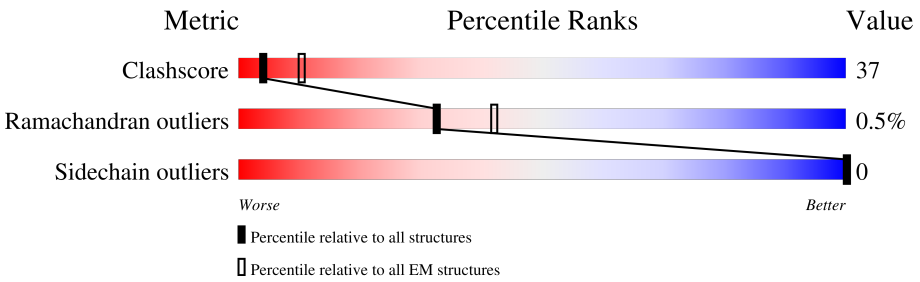
EMDB validation analysis	:	0.0.1.dev70
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 6.90 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	211	18% 53% 45% •
1	B	211	18% 54% 45% •
1	C	211	17% 53% 45% •
1	D	211	18% 53% 45% •
1	E	211	18% 53% 45% •
1	F	211	16% 52% 46% •
1	G	211	17% 52% 46% •
1	H	211	17% 51% 47% •

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Mol	Chain	Length	Quality of chain
1	I	211	16% 52% 46%
1	J	211	16% 52% 46%
1	K	211	17% 53% 45%
1	L	211	16% 52% 46%
1	M	211	15% 51% 47%
1	N	211	17% 52% 46%
1	O	211	17% 52% 46%
1	P	211	16% 51% 47%
1	Q	211	16% 52% 46%
1	R	211	16% 52% 46%
1	S	211	16% 51% 47%
1	T	211	17% 52% 46%
1	U	211	16% 52% 46%
1	V	211	15% 53% 45%
1	W	211	16% 53% 45%
1	X	211	18% 54% 45%
1	Y	211	19% 54% 45%
1	Z	211	20% 55% 44%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 87074 atoms, of which 45058 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 DHF79 filament.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
1	Q	211	3349	1008	1733	290	314	4	0	0
1	A	211	3349	1008	1733	290	314	4	0	0
1	B	211	3349	1008	1733	290	314	4	0	0
1	C	211	3349	1008	1733	290	314	4	0	0
1	D	211	3349	1008	1733	290	314	4	0	0
1	E	211	3349	1008	1733	290	314	4	0	0
1	F	211	3349	1008	1733	290	314	4	0	0
1	G	211	3349	1008	1733	290	314	4	0	0
1	H	211	3349	1008	1733	290	314	4	0	0
1	I	211	3349	1008	1733	290	314	4	0	0
1	J	211	3349	1008	1733	290	314	4	0	0
1	K	211	3349	1008	1733	290	314	4	0	0
1	L	211	3349	1008	1733	290	314	4	0	0
1	M	211	3349	1008	1733	290	314	4	0	0
1	N	211	3349	1008	1733	290	314	4	0	0
1	O	211	3349	1008	1733	290	314	4	0	0
1	P	211	3349	1008	1733	290	314	4	0	0

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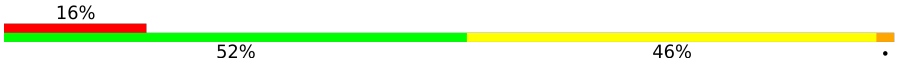
Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
1	R	211	3349	1008	1733	290	314	4	0	0
			Total	C	H	N	O	S		
1	S	211	3349	1008	1733	290	314	4	0	0
			Total	C	H	N	O	S		
1	T	211	3349	1008	1733	290	314	4	0	0
			Total	C	H	N	O	S		
1	U	211	3349	1008	1733	290	314	4	0	0
			Total	C	H	N	O	S		
1	V	211	3349	1008	1733	290	314	4	0	0
			Total	C	H	N	O	S		
1	W	211	3349	1008	1733	290	314	4	0	0
			Total	C	H	N	O	S		
1	X	211	3349	1008	1733	290	314	4	0	0
			Total	C	H	N	O	S		
1	Y	211	3349	1008	1733	290	314	4	0	0
			Total	C	H	N	O	S		
1	Z	211	3349	1008	1733	290	314	4	0	0

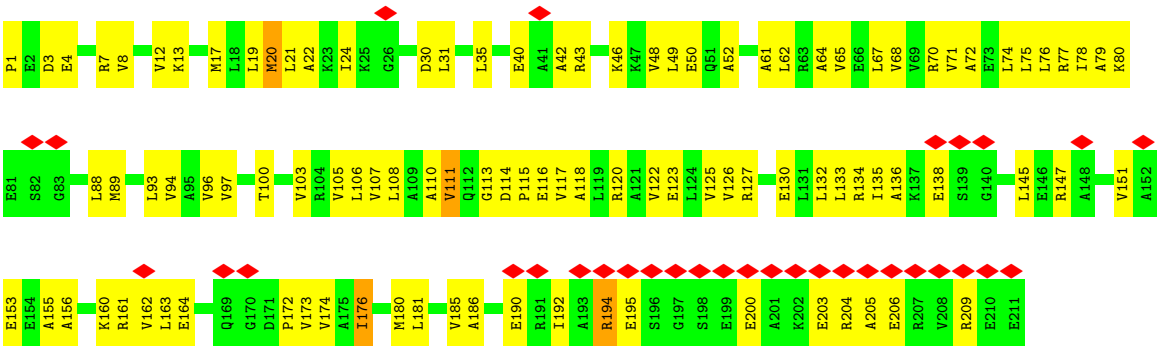
3 Residue-property plots (i)

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: DHF79 filament

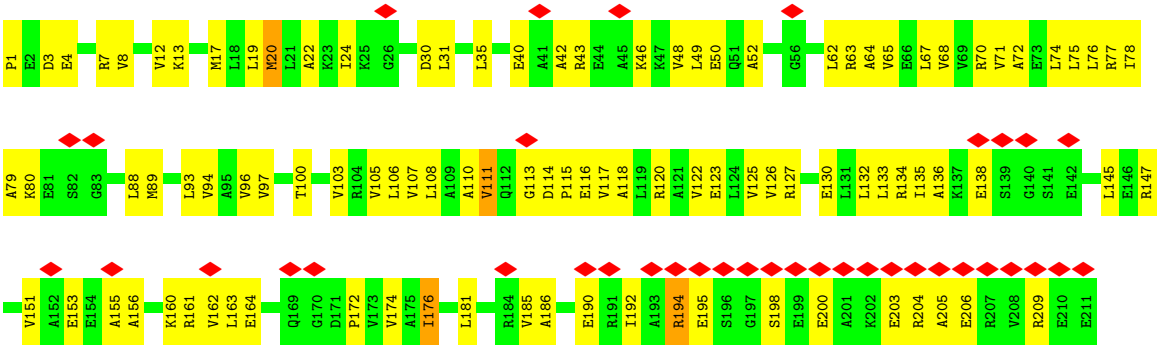
Chain Q:





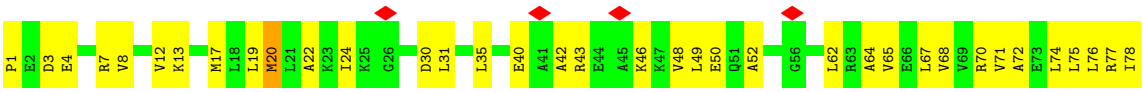
- Molecule 1: DHF79 filament

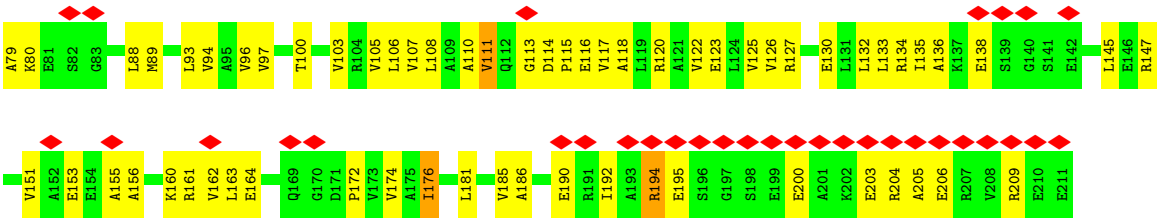
Chain A:



- Molecule 1: DHF79 filament

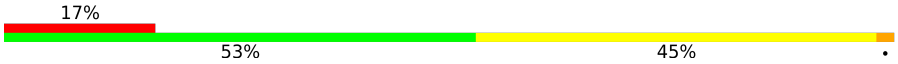
Chain B:

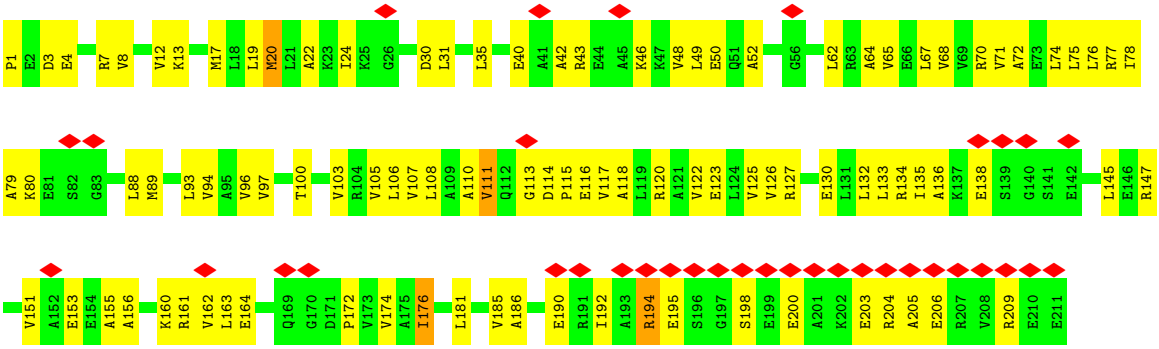




• Molecule 1: DHF79 filament

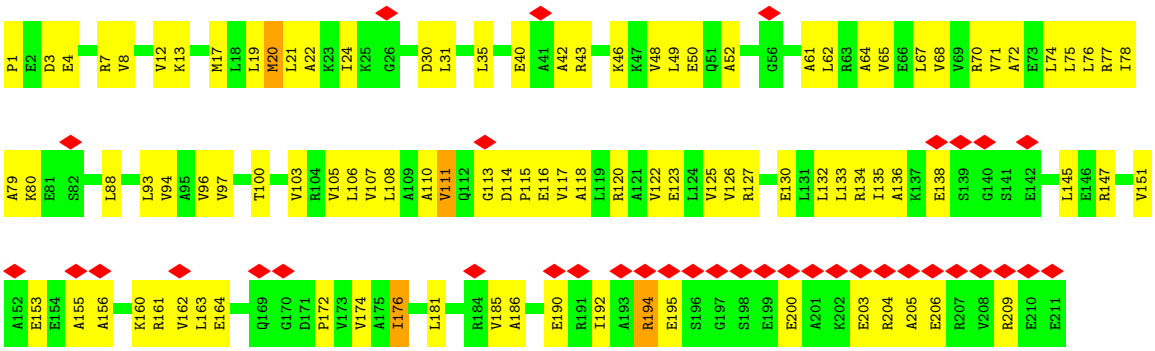
Chain C:





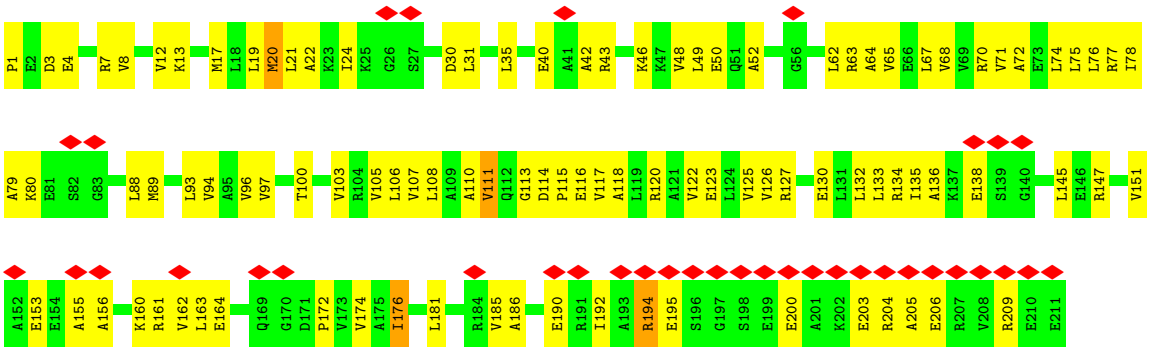
• Molecule 1: DHF79 filament

Chain D:



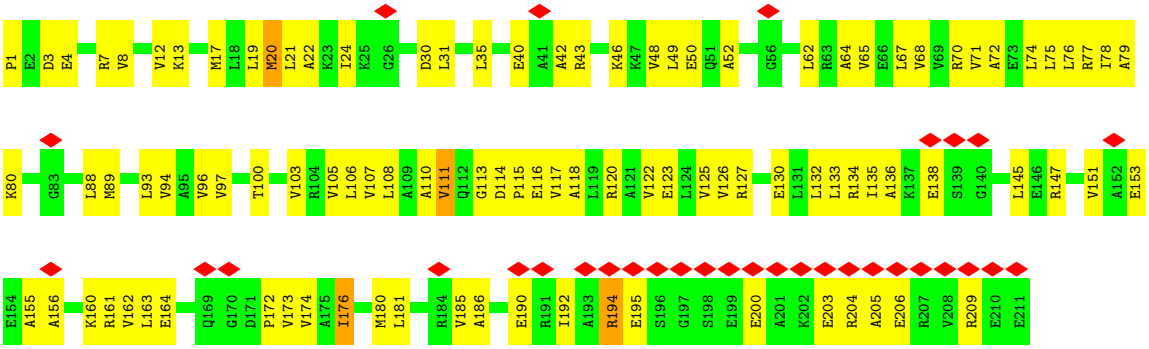
• Molecule 1: DHF79 filament

Chain E:



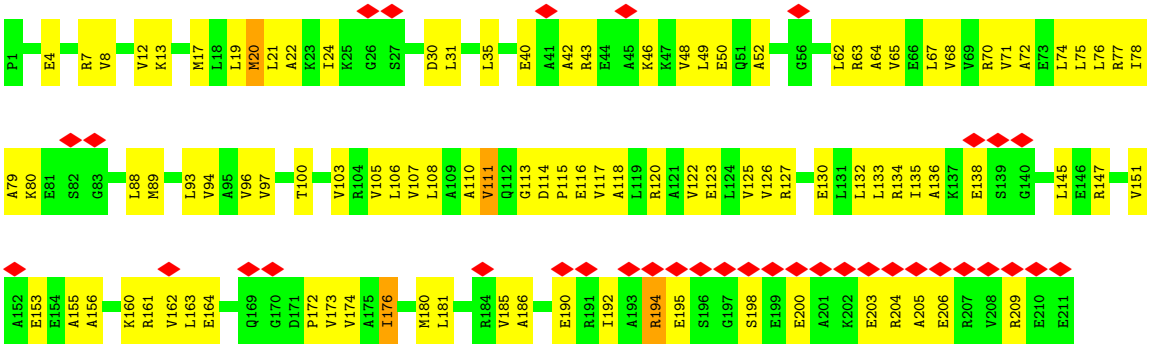
- Molecule 1: DHF79 filament

Chain F:



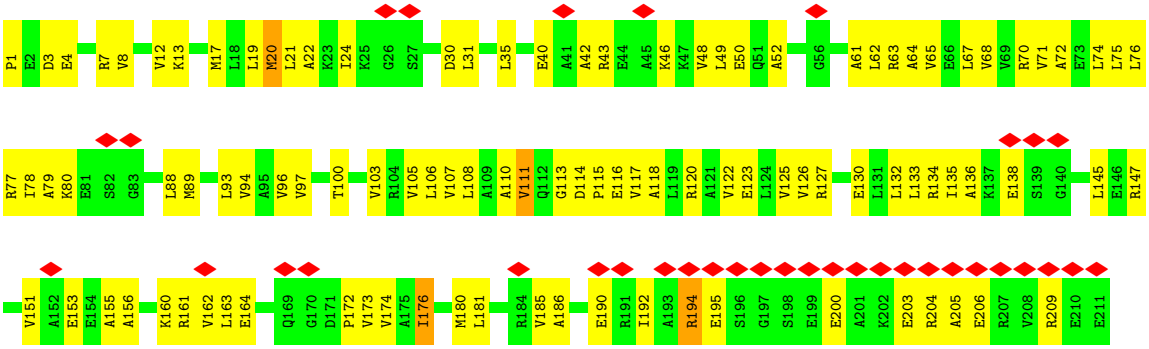
- Molecule 1: DHF79 filament

Chain G:



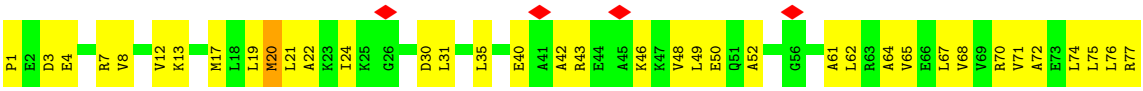
- Molecule 1: DHF79 filament

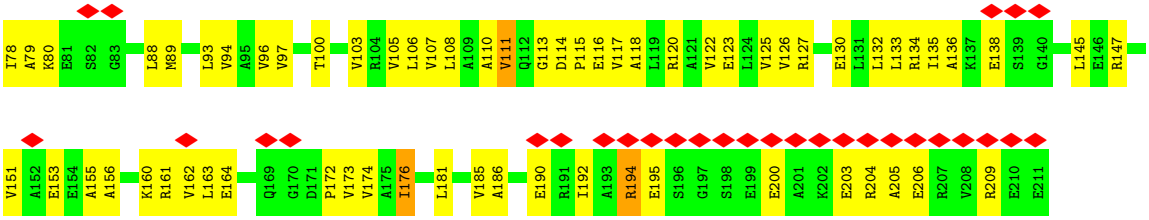
Chain H:



- Molecule 1: DHF79 filament

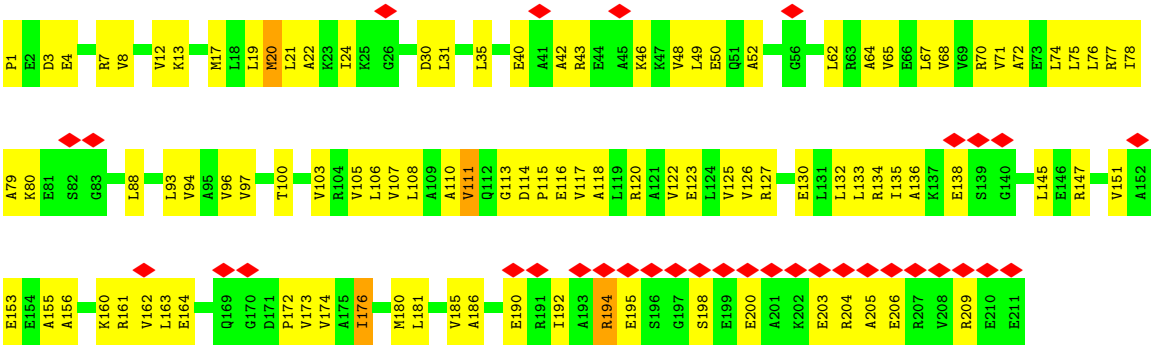
Chain I:





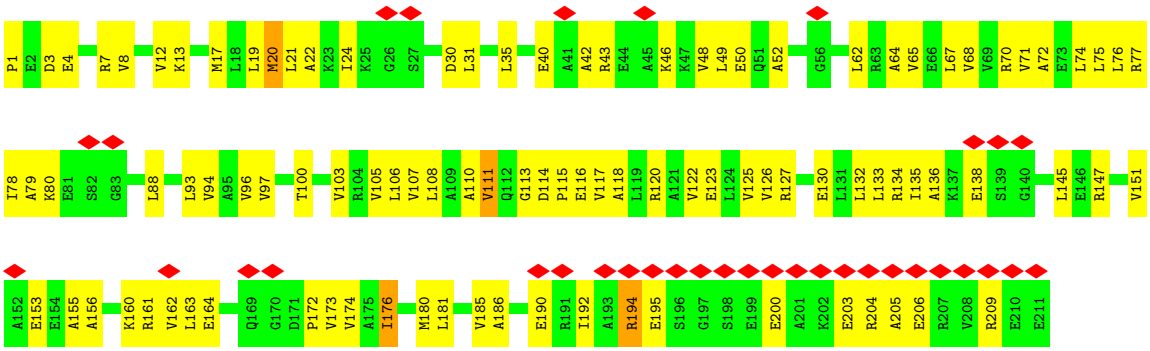
• Molecule 1: DHF79 filament

Chain J:



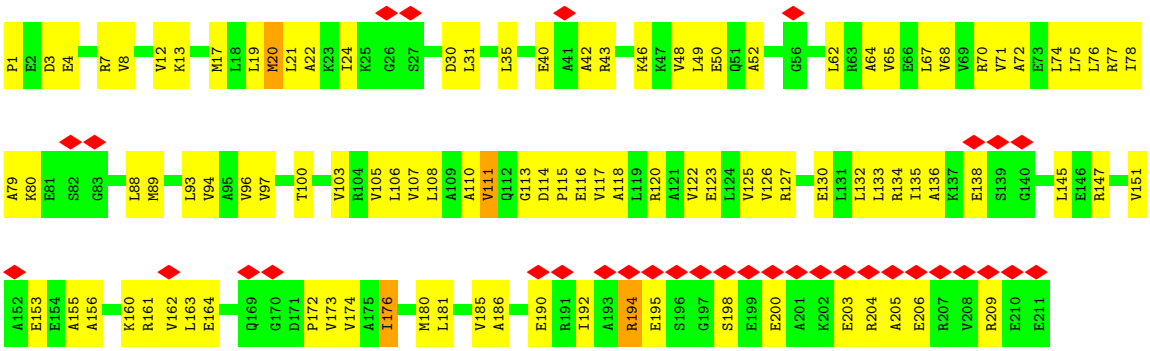
• Molecule 1: DHF79 filament

Chain K:



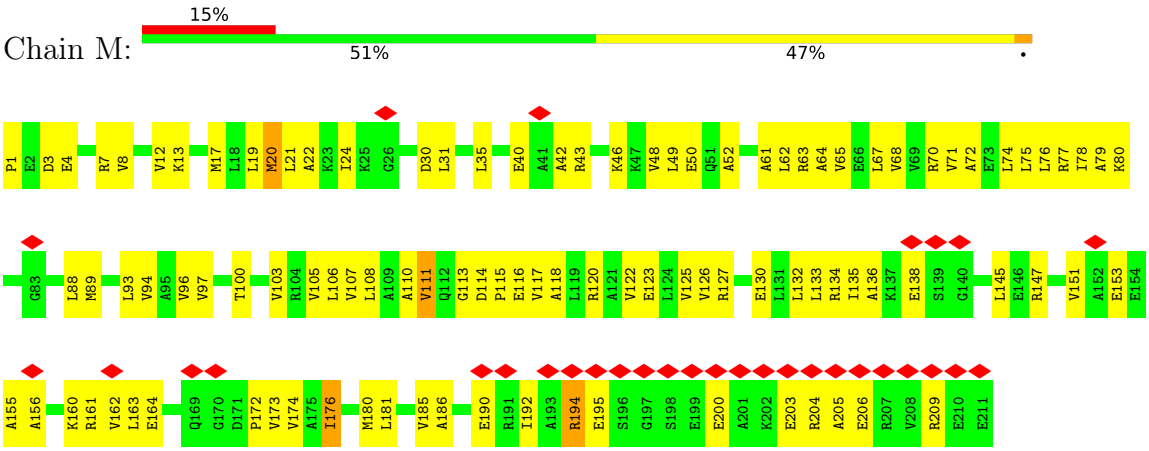
• Molecule 1: DHF79 filament

Chain L:



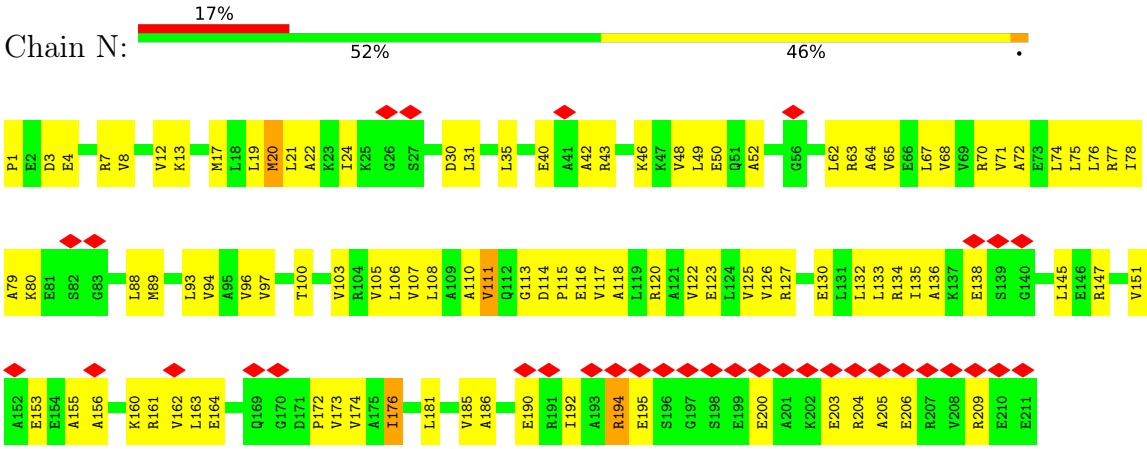
- Molecule 1: DHF79 filament

Chain M:



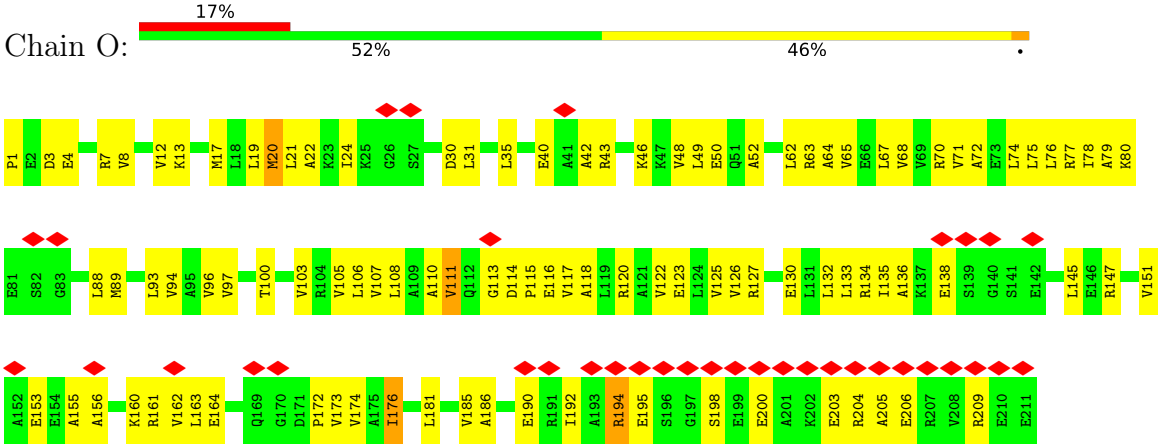
- Molecule 1: DHF79 filament

Chain N:



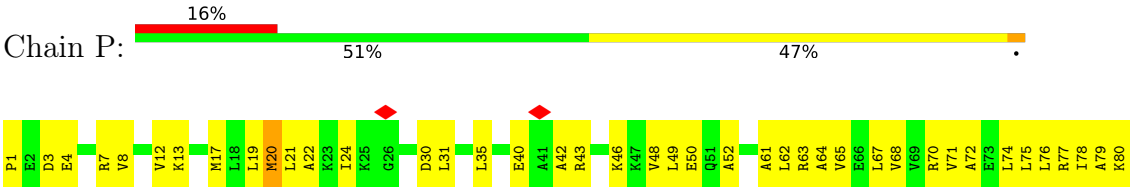
- Molecule 1: DHF79 filament

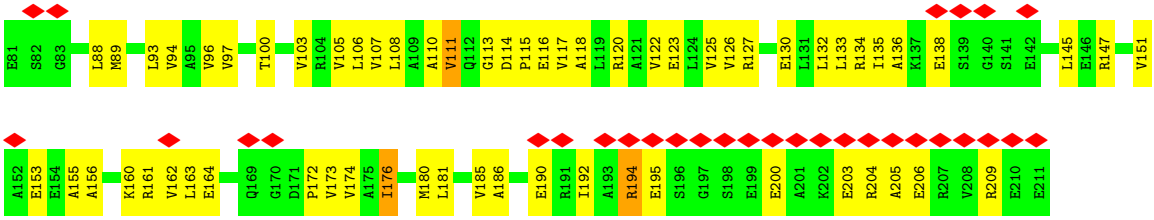
Chain O:



- Molecule 1: DHF79 filament

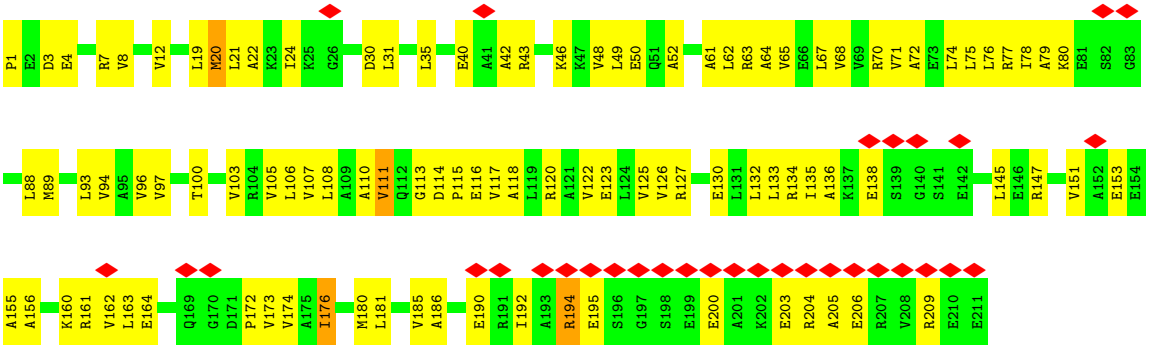
Chain P:





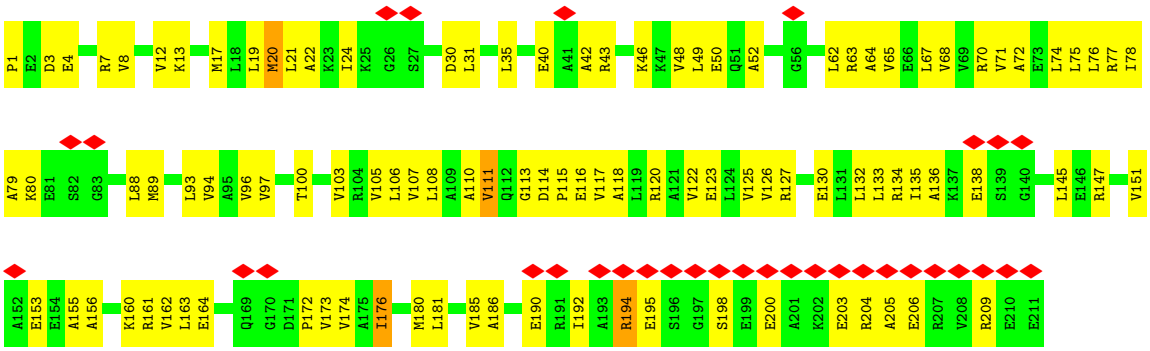
• Molecule 1: DHF79 filament

Chain R:



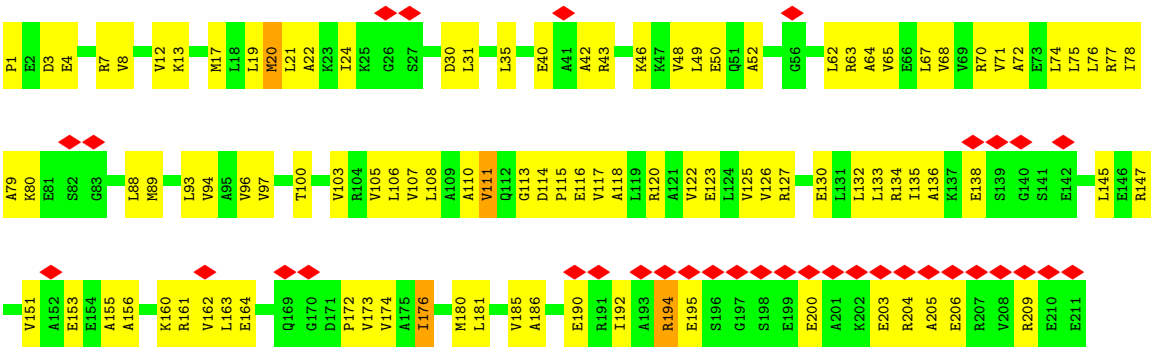
• Molecule 1: DHF79 filament

Chain S:



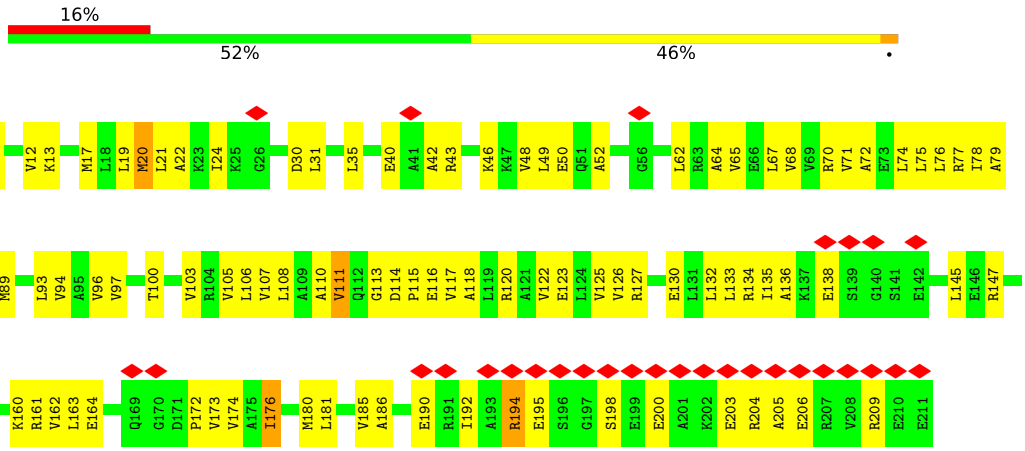
• Molecule 1: DHF79 filament

Chain T:



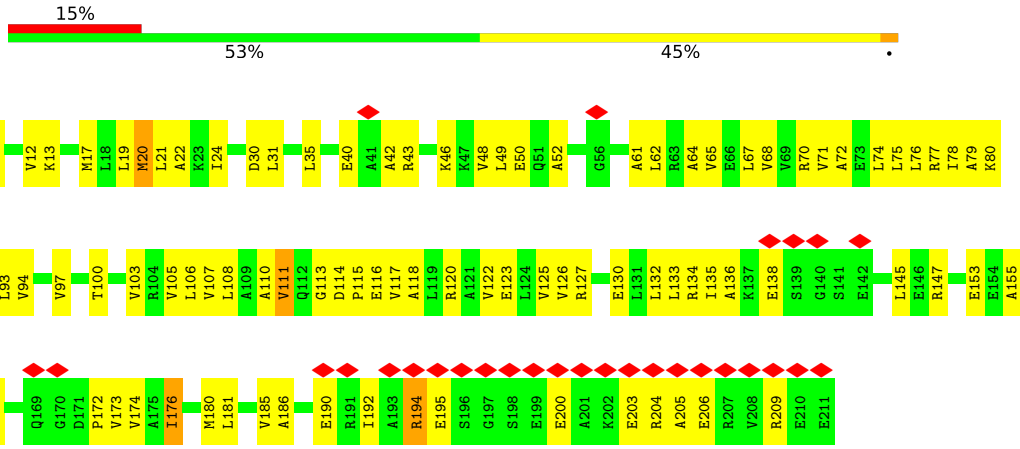
- Molecule 1: DHF79 filament

Chain U:



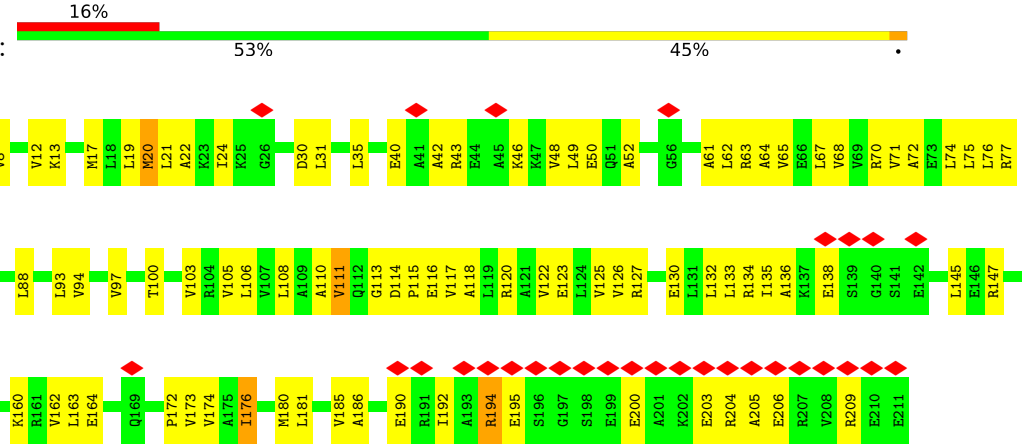
- Molecule 1: DHF79 filament

Chain V:



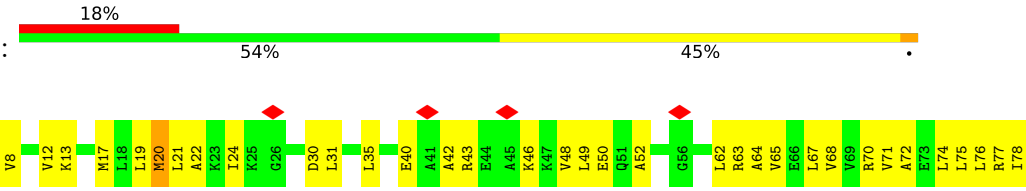
- Molecule 1: DHF79 filament

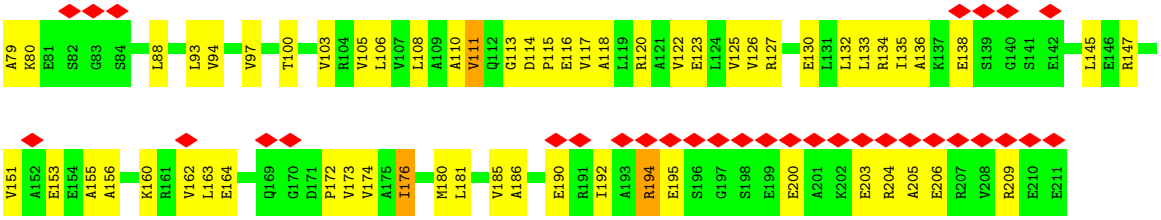
Chain W:



- Molecule 1: DHF79 filament

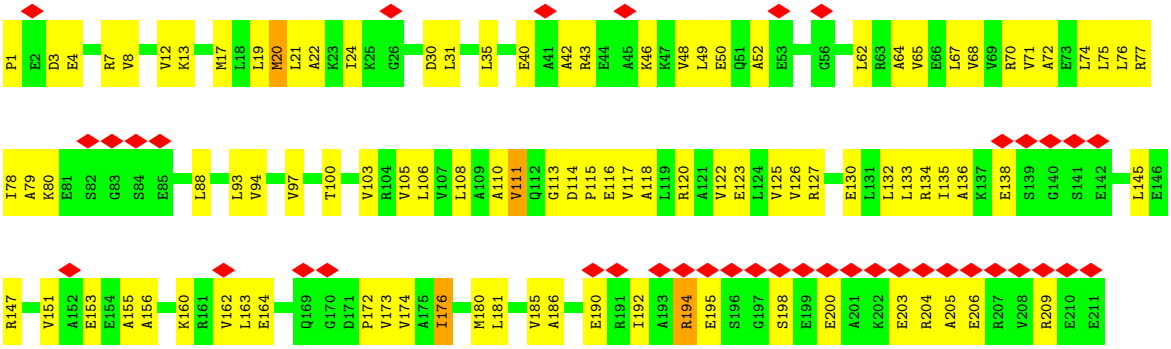
Chain X:





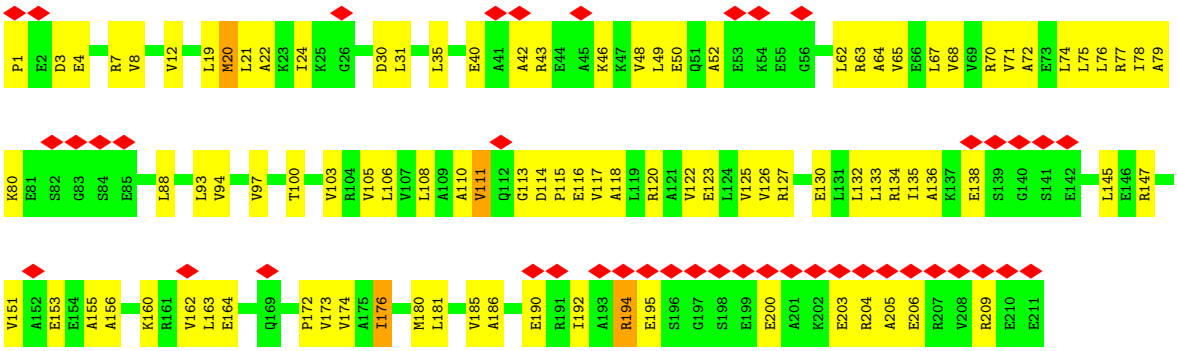
• Molecule 1: DHF79 filament

Chain Y:



• Molecule 1: DHF79 filament

Chain Z:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=77.6764°, rise=5.07952 Å, axial sym=C1	Depositor
Number of segments used	32583	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	45	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.096	Depositor
Minimum map value	-0.019	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.011	Depositor
Recommended contour level	0.04	Depositor
Map size (Å)	241.92, 241.92, 241.92	wwPDB
Map dimensions	192, 192, 192	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.26, 1.26, 1.26	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	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	B	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	C	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	D	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	E	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	F	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	G	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	H	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	I	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	J	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	K	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	L	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	M	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	N	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	O	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	P	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	Q	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	R	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	S	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	T	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	U	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	V	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	W	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	X	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	Y	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
1	Z	1.15	2/1619 (0.1%)	0.68	2/2174 (0.1%)
All	All	1.15	52/42094 (0.1%)	0.68	52/56524 (0.1%)

All (52) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	20	MET	CA-CB	-9.01	1.34	1.53
1	A	20	MET	CA-CB	-9.01	1.34	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	20	MET	CA-CB	-8.99	1.34	1.53
1	M	20	MET	CA-CB	-8.99	1.34	1.53
1	X	20	MET	CA-CB	-8.99	1.34	1.53
1	B	20	MET	CA-CB	-8.99	1.34	1.53
1	D	20	MET	CA-CB	-8.99	1.34	1.53
1	N	20	MET	CA-CB	-8.99	1.34	1.53
1	V	20	MET	CA-CB	-8.99	1.34	1.53
1	O	20	MET	CA-CB	-8.99	1.34	1.53
1	Q	20	MET	CA-CB	-8.98	1.34	1.53
1	F	20	MET	CA-CB	-8.98	1.34	1.53
1	H	20	MET	CA-CB	-8.98	1.34	1.53
1	Y	20	MET	CA-CB	-8.98	1.34	1.53
1	E	20	MET	CA-CB	-8.98	1.34	1.53
1	G	20	MET	CA-CB	-8.98	1.34	1.53
1	P	20	MET	CA-CB	-8.98	1.34	1.53
1	T	20	MET	CA-CB	-8.98	1.34	1.53
1	K	20	MET	CA-CB	-8.98	1.34	1.53
1	I	20	MET	CA-CB	-8.97	1.34	1.53
1	J	20	MET	CA-CB	-8.97	1.34	1.53
1	W	20	MET	CA-CB	-8.97	1.34	1.53
1	C	20	MET	CA-CB	-8.97	1.34	1.53
1	R	20	MET	CA-CB	-8.96	1.34	1.53
1	S	20	MET	CA-CB	-8.96	1.34	1.53
1	Z	20	MET	CA-CB	-8.96	1.34	1.53
1	S	111	VAL	CA-CB	-5.79	1.42	1.54
1	I	111	VAL	CA-CB	-5.78	1.42	1.54
1	R	111	VAL	CA-CB	-5.78	1.42	1.54
1	X	111	VAL	CA-CB	-5.78	1.42	1.54
1	G	111	VAL	CA-CB	-5.78	1.42	1.54
1	Z	111	VAL	CA-CB	-5.78	1.42	1.54
1	L	111	VAL	CA-CB	-5.77	1.42	1.54
1	T	111	VAL	CA-CB	-5.77	1.42	1.54
1	C	111	VAL	CA-CB	-5.77	1.42	1.54
1	Q	111	VAL	CA-CB	-5.77	1.42	1.54
1	D	111	VAL	CA-CB	-5.77	1.42	1.54
1	F	111	VAL	CA-CB	-5.77	1.42	1.54
1	E	111	VAL	CA-CB	-5.76	1.42	1.54
1	M	111	VAL	CA-CB	-5.76	1.42	1.54
1	K	111	VAL	CA-CB	-5.76	1.42	1.54
1	A	111	VAL	CA-CB	-5.76	1.42	1.54
1	B	111	VAL	CA-CB	-5.76	1.42	1.54
1	W	111	VAL	CA-CB	-5.76	1.42	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Y	111	VAL	CA-CB	-5.76	1.42	1.54
1	H	111	VAL	CA-CB	-5.76	1.42	1.54
1	V	111	VAL	CA-CB	-5.76	1.42	1.54
1	P	111	VAL	CA-CB	-5.75	1.42	1.54
1	U	111	VAL	CA-CB	-5.75	1.42	1.54
1	N	111	VAL	CA-CB	-5.75	1.42	1.54
1	J	111	VAL	CA-CB	-5.75	1.42	1.54
1	O	111	VAL	CA-CB	-5.75	1.42	1.54

All (52) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	176	ILE	CB-CA-C	-7.41	96.79	111.60
1	D	176	ILE	CB-CA-C	-7.40	96.80	111.60
1	E	176	ILE	CB-CA-C	-7.40	96.80	111.60
1	P	176	ILE	CB-CA-C	-7.40	96.80	111.60
1	A	176	ILE	CB-CA-C	-7.40	96.80	111.60
1	C	176	ILE	CB-CA-C	-7.40	96.80	111.60
1	O	176	ILE	CB-CA-C	-7.40	96.81	111.60
1	S	176	ILE	CB-CA-C	-7.39	96.81	111.60
1	X	176	ILE	CB-CA-C	-7.39	96.81	111.60
1	Z	176	ILE	CB-CA-C	-7.39	96.81	111.60
1	J	176	ILE	CB-CA-C	-7.39	96.82	111.60
1	U	176	ILE	CB-CA-C	-7.39	96.82	111.60
1	Q	176	ILE	CB-CA-C	-7.39	96.82	111.60
1	G	176	ILE	CB-CA-C	-7.39	96.82	111.60
1	M	176	ILE	CB-CA-C	-7.39	96.82	111.60
1	H	176	ILE	CB-CA-C	-7.39	96.83	111.60
1	V	176	ILE	CB-CA-C	-7.38	96.83	111.60
1	Y	176	ILE	CB-CA-C	-7.38	96.83	111.60
1	N	176	ILE	CB-CA-C	-7.38	96.83	111.60
1	F	176	ILE	CB-CA-C	-7.38	96.83	111.60
1	L	176	ILE	CB-CA-C	-7.38	96.84	111.60
1	W	176	ILE	CB-CA-C	-7.38	96.84	111.60
1	K	176	ILE	CB-CA-C	-7.38	96.84	111.60
1	R	176	ILE	CB-CA-C	-7.38	96.84	111.60
1	T	176	ILE	CB-CA-C	-7.38	96.85	111.60
1	B	176	ILE	CB-CA-C	-7.37	96.85	111.60
1	B	110	ALA	N-CA-CB	-5.19	102.83	110.10
1	U	110	ALA	N-CA-CB	-5.19	102.83	110.10
1	A	110	ALA	N-CA-CB	-5.19	102.83	110.10
1	I	110	ALA	N-CA-CB	-5.19	102.83	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	110	ALA	N-CA-CB	-5.19	102.84	110.10
1	E	110	ALA	N-CA-CB	-5.18	102.84	110.10
1	D	110	ALA	N-CA-CB	-5.18	102.85	110.10
1	H	110	ALA	N-CA-CB	-5.18	102.85	110.10
1	J	110	ALA	N-CA-CB	-5.18	102.85	110.10
1	L	110	ALA	N-CA-CB	-5.18	102.85	110.10
1	N	110	ALA	N-CA-CB	-5.18	102.85	110.10
1	P	110	ALA	N-CA-CB	-5.17	102.86	110.10
1	S	110	ALA	N-CA-CB	-5.17	102.86	110.10
1	G	110	ALA	N-CA-CB	-5.17	102.86	110.10
1	V	110	ALA	N-CA-CB	-5.17	102.86	110.10
1	Q	110	ALA	N-CA-CB	-5.17	102.86	110.10
1	K	110	ALA	N-CA-CB	-5.17	102.86	110.10
1	M	110	ALA	N-CA-CB	-5.17	102.86	110.10
1	O	110	ALA	N-CA-CB	-5.17	102.86	110.10
1	R	110	ALA	N-CA-CB	-5.17	102.87	110.10
1	F	110	ALA	N-CA-CB	-5.16	102.87	110.10
1	C	110	ALA	N-CA-CB	-5.16	102.88	110.10
1	W	110	ALA	N-CA-CB	-5.15	102.89	110.10
1	X	110	ALA	N-CA-CB	-5.15	102.89	110.10
1	Z	110	ALA	N-CA-CB	-5.14	102.90	110.10
1	Y	110	ALA	N-CA-CB	-5.14	102.90	110.10

There are no chirality outliers.

There are no planarity outliers.

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	1616	1733	1731	133	0
1	B	1616	1733	1731	130	0
1	C	1616	1733	1731	130	0
1	D	1616	1733	1731	134	0
1	E	1616	1733	1731	156	0
1	F	1616	1733	1731	179	0
1	G	1616	1733	1731	179	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	H	1616	1733	1731	181	0
1	I	1616	1733	1731	180	0
1	J	1616	1733	1731	178	0
1	K	1616	1733	1731	176	0
1	L	1616	1733	1731	178	0
1	M	1616	1733	1731	182	0
1	N	1616	1733	1731	178	0
1	O	1616	1733	1731	180	0
1	P	1616	1733	1731	182	0
1	Q	1616	1733	1731	181	0
1	R	1616	1733	1731	180	0
1	S	1616	1733	1731	181	0
1	T	1616	1733	1731	181	0
1	U	1616	1733	1731	179	0
1	V	1616	1733	1731	156	0
1	W	1616	1733	1733	131	0
1	X	1616	1733	1733	131	0
1	Y	1616	1733	1733	131	0
1	Z	1616	1733	1733	129	0
All	All	42016	45058	45014	3196	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 37.

All (3196) 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:U:161:ARG:CZ	1:Y:24:ILE:HG12	1.31	1.45
1:F:161:ARG:CZ	1:J:24:ILE:HG12	1.31	1.42
1:B:161:ARG:CZ	1:F:24:ILE:HG12	1.31	1.42
1:V:161:ARG:CZ	1:Z:24:ILE:HG12	1.31	1.41
1:Q:21:LEU:CD2	1:I:107:VAL:HG21	1.51	1.40
1:M:107:VAL:HG21	1:R:21:LEU:CD2	1.51	1.40
1:E:107:VAL:HG21	1:I:21:LEU:CD2	1.51	1.40
1:R:107:VAL:HG21	1:V:21:LEU:CD2	1.51	1.40
1:S:107:VAL:HG21	1:W:21:LEU:CD2	1.51	1.40
1:D:107:VAL:HG21	1:H:21:LEU:CD2	1.51	1.40
1:J:107:VAL:HG21	1:M:21:LEU:CD2	1.51	1.39
1:K:107:VAL:HG21	1:N:21:LEU:CD2	1.51	1.39
1:Q:107:VAL:HG21	1:P:21:LEU:CD2	1.51	1.39
1:B:107:VAL:HG21	1:F:21:LEU:CD2	1.51	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:107:VAL:HG21	1:O:21:LEU:CD2	1.51	1.39
1:C:107:VAL:HG21	1:G:21:LEU:CD2	1.51	1.39
1:O:107:VAL:HG21	1:T:21:LEU:CD2	1.51	1.38
1:R:161:ARG:CZ	1:V:24:ILE:HG12	1.31	1.38
1:A:107:VAL:HG21	1:E:21:LEU:CD2	1.51	1.38
1:U:107:VAL:HG21	1:Y:21:LEU:CD2	1.51	1.38
1:N:107:VAL:HG21	1:S:21:LEU:CD2	1.51	1.38
1:P:107:VAL:HG21	1:U:21:LEU:CD2	1.51	1.38
1:T:107:VAL:HG21	1:X:21:LEU:CD2	1.51	1.38
1:V:107:VAL:HG21	1:Z:21:LEU:CD2	1.51	1.38
1:D:161:ARG:CZ	1:H:24:ILE:HG12	1.31	1.38
1:G:107:VAL:HG21	1:K:21:LEU:CD2	1.51	1.38
1:H:107:VAL:HG21	1:L:21:LEU:CD2	1.51	1.38
1:F:107:VAL:HG21	1:J:21:LEU:CD2	1.51	1.37
1:M:161:ARG:CZ	1:R:24:ILE:HG12	1.31	1.38
1:C:161:ARG:CZ	1:G:24:ILE:HG12	1.31	1.37
1:S:161:ARG:CZ	1:W:24:ILE:HG12	1.31	1.37
1:Q:24:ILE:HG12	1:I:161:ARG:CZ	1.31	1.37
1:E:161:ARG:CZ	1:I:24:ILE:HG12	1.31	1.37
1:G:161:ARG:CZ	1:K:24:ILE:HG12	1.31	1.35
1:N:161:ARG:CZ	1:S:24:ILE:HG12	1.31	1.35
1:Q:161:ARG:CZ	1:P:24:ILE:HG12	1.31	1.35
1:K:161:ARG:CZ	1:N:24:ILE:HG12	1.31	1.35
1:A:161:ARG:CZ	1:E:24:ILE:HG12	1.31	1.34
1:J:161:ARG:CZ	1:M:24:ILE:HG12	1.31	1.33
1:H:161:ARG:CZ	1:L:24:ILE:HG12	1.31	1.33
1:L:161:ARG:CZ	1:O:24:ILE:CG1	2.02	1.33
1:B:161:ARG:CZ	1:F:24:ILE:CG1	2.02	1.33
1:G:161:ARG:CZ	1:K:24:ILE:CG1	2.02	1.33
1:P:161:ARG:CZ	1:U:24:ILE:CG1	2.02	1.32
1:P:161:ARG:CZ	1:U:24:ILE:HG12	1.31	1.32
1:V:161:ARG:CZ	1:Z:24:ILE:CG1	2.02	1.32
1:E:161:ARG:CZ	1:I:24:ILE:CG1	2.02	1.31
1:T:161:ARG:CZ	1:X:24:ILE:HG12	1.31	1.31
1:S:161:ARG:CZ	1:W:24:ILE:CG1	2.02	1.30
1:U:161:ARG:CZ	1:Y:24:ILE:CG1	2.02	1.30
1:O:161:ARG:CZ	1:T:24:ILE:CG1	2.02	1.29
1:D:161:ARG:CZ	1:H:24:ILE:CG1	2.02	1.29
1:K:161:ARG:CZ	1:N:24:ILE:CG1	2.02	1.29
1:L:161:ARG:CZ	1:O:24:ILE:HG12	1.31	1.29
1:O:93:LEU:HD12	1:U:173:VAL:CG1	1.64	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:93:LEU:HD12	1:Y:173:VAL:CG1	1.64	1.28
1:F:161:ARG:CZ	1:J:24:ILE:CG1	2.02	1.28
1:L:93:LEU:HD12	1:P:173:VAL:CG1	1.64	1.28
1:O:161:ARG:CZ	1:T:24:ILE:HG12	1.31	1.28
1:P:93:LEU:HD12	1:V:173:VAL:CG1	1.64	1.28
1:Q:93:LEU:HD12	1:R:173:VAL:CG1	1.64	1.28
1:M:161:ARG:CZ	1:R:24:ILE:CG1	2.02	1.28
1:Q:24:ILE:CG1	1:I:161:ARG:CZ	2.02	1.28
1:Q:173:VAL:CG1	1:H:93:LEU:HD12	1.64	1.28
1:K:93:LEU:HD12	1:O:173:VAL:CG1	1.64	1.28
1:N:93:LEU:HD12	1:T:173:VAL:CG1	1.64	1.28
1:U:93:LEU:HD12	1:Z:173:VAL:CG1	1.64	1.28
1:A:93:LEU:HD12	1:F:173:VAL:CG1	1.64	1.27
1:D:93:LEU:HD12	1:I:173:VAL:CG1	1.64	1.27
1:I:93:LEU:HD12	1:M:173:VAL:CG1	1.64	1.27
1:E:93:LEU:HD12	1:J:173:VAL:CG1	1.64	1.27
1:G:93:LEU:HD12	1:L:173:VAL:CG1	1.64	1.27
1:S:93:LEU:HD12	1:X:173:VAL:CG1	1.64	1.27
1:Q:161:ARG:CZ	1:P:24:ILE:CG1	2.02	1.26
1:A:161:ARG:CZ	1:E:24:ILE:CG1	2.02	1.26
1:R:93:LEU:HD12	1:W:173:VAL:CG1	1.64	1.26
1:C:93:LEU:HD12	1:H:173:VAL:CG1	1.64	1.26
1:F:93:LEU:HD12	1:K:173:VAL:CG1	1.64	1.26
1:B:93:LEU:HD12	1:G:173:VAL:CG1	1.64	1.26
1:M:93:LEU:HD12	1:S:173:VAL:CG1	1.64	1.25
1:J:93:LEU:HD12	1:N:173:VAL:CG1	1.64	1.25
1:R:161:ARG:CZ	1:V:24:ILE:CG1	2.02	1.25
1:T:161:ARG:CZ	1:X:24:ILE:CG1	2.02	1.25
1:J:161:ARG:CZ	1:M:24:ILE:CG1	2.02	1.25
1:K:161:ARG:NE	1:N:24:ILE:HG12	1.52	1.25
1:E:93:LEU:CD1	1:J:173:VAL:CG1	2.16	1.24
1:N:161:ARG:NE	1:S:24:ILE:HG12	1.52	1.24
1:S:93:LEU:CD1	1:X:173:VAL:CG1	2.16	1.24
1:G:161:ARG:NE	1:K:24:ILE:HG12	1.52	1.24
1:M:93:LEU:CD1	1:S:173:VAL:CG1	2.16	1.24
1:T:161:ARG:NE	1:X:24:ILE:HG12	1.52	1.24
1:B:161:ARG:NE	1:F:24:ILE:HG12	1.52	1.24
1:J:93:LEU:CD1	1:N:173:VAL:CG1	2.16	1.24
1:I:93:LEU:CD1	1:M:173:VAL:CG1	2.16	1.24
1:O:161:ARG:NE	1:T:24:ILE:HG12	1.52	1.23
1:Q:93:LEU:CD1	1:R:173:VAL:CG1	2.16	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:ARG:NE	1:E:24:ILE:HG12	1.52	1.23
1:C:161:ARG:NE	1:G:24:ILE:HG12	1.52	1.23
1:N:161:ARG:CZ	1:S:24:ILE:CG1	2.02	1.23
1:S:161:ARG:NE	1:W:24:ILE:HG12	1.52	1.23
1:U:93:LEU:CD1	1:Z:173:VAL:CG1	2.16	1.23
1:F:161:ARG:NE	1:J:24:ILE:HG12	1.52	1.23
1:Q:173:VAL:CG1	1:H:93:LEU:CD1	2.16	1.23
1:B:93:LEU:CD1	1:G:173:VAL:CG1	2.16	1.23
1:G:93:LEU:CD1	1:L:173:VAL:CG1	2.16	1.23
1:O:93:LEU:CD1	1:U:173:VAL:CG1	2.16	1.23
1:R:93:LEU:CD1	1:W:173:VAL:CG1	2.16	1.23
1:C:93:LEU:CD1	1:H:173:VAL:CG1	2.16	1.23
1:D:93:LEU:CD1	1:I:173:VAL:CG1	2.16	1.23
1:E:161:ARG:NE	1:I:24:ILE:HG12	1.52	1.23
1:L:93:LEU:CD1	1:P:173:VAL:CG1	2.16	1.23
1:N:93:LEU:CD1	1:T:173:VAL:CG1	2.16	1.23
1:U:161:ARG:NE	1:Y:24:ILE:HG12	1.52	1.23
1:F:93:LEU:CD1	1:K:173:VAL:CG1	2.16	1.22
1:A:93:LEU:CD1	1:F:173:VAL:CG1	2.16	1.22
1:L:161:ARG:NE	1:O:24:ILE:HG12	1.52	1.22
1:P:93:LEU:CD1	1:V:173:VAL:CG1	2.16	1.22
1:K:93:LEU:CD1	1:O:173:VAL:CG1	2.16	1.22
1:V:161:ARG:NE	1:Z:24:ILE:HG12	1.52	1.22
1:J:161:ARG:NE	1:M:24:ILE:HG12	1.52	1.22
1:D:161:ARG:NE	1:H:24:ILE:HG12	1.52	1.21
1:H:161:ARG:NE	1:L:24:ILE:HG12	1.52	1.21
1:T:93:LEU:CD1	1:Y:173:VAL:CG1	2.16	1.21
1:P:161:ARG:NE	1:U:24:ILE:HG12	1.52	1.21
1:R:161:ARG:NE	1:V:24:ILE:HG12	1.52	1.21
1:Q:24:ILE:HG12	1:I:161:ARG:NE	1.52	1.21
1:C:161:ARG:CZ	1:G:24:ILE:CG1	2.02	1.21
1:M:161:ARG:NE	1:R:24:ILE:HG12	1.52	1.21
1:E:93:LEU:HD12	1:J:173:VAL:HG11	1.24	1.20
1:H:161:ARG:CZ	1:L:24:ILE:CG1	2.02	1.20
1:S:107:VAL:HG21	1:W:21:LEU:HD23	1.24	1.19
1:Q:161:ARG:NE	1:P:24:ILE:HG12	1.52	1.19
1:J:107:VAL:HG21	1:M:21:LEU:HD23	1.24	1.19
1:F:93:LEU:HD12	1:K:173:VAL:HG11	1.24	1.18
1:C:161:ARG:NH1	1:G:24:ILE:HG12	1.59	1.18
1:G:161:ARG:NH1	1:K:24:ILE:HG12	1.59	1.18
1:K:161:ARG:NH1	1:N:24:ILE:HG12	1.59	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:VAL:HG21	1:H:21:LEU:HD23	1.24	1.18
1:U:107:VAL:HG21	1:Y:21:LEU:HD21	1.26	1.18
1:D:161:ARG:NH1	1:H:24:ILE:HG12	1.59	1.18
1:H:161:ARG:NH1	1:L:24:ILE:HG12	1.59	1.18
1:L:161:ARG:NH1	1:O:24:ILE:HG12	1.59	1.18
1:V:161:ARG:NH1	1:Z:24:ILE:HG12	1.59	1.18
1:N:161:ARG:NH1	1:S:24:ILE:HG12	1.59	1.18
1:O:161:ARG:NH1	1:T:24:ILE:HG12	1.59	1.18
1:R:161:ARG:NH1	1:V:24:ILE:HG12	1.59	1.18
1:J:93:LEU:HD12	1:N:173:VAL:HG11	1.24	1.17
1:A:107:VAL:HG21	1:E:21:LEU:HD23	1.24	1.17
1:T:161:ARG:NH1	1:X:24:ILE:HG12	1.59	1.17
1:B:107:VAL:HG21	1:F:21:LEU:HD21	1.26	1.17
1:S:161:ARG:NH1	1:W:24:ILE:HG12	1.59	1.17
1:Q:107:VAL:HG21	1:P:21:LEU:HD23	1.24	1.17
1:B:161:ARG:NH1	1:F:24:ILE:HG12	1.59	1.17
1:F:107:VAL:HG21	1:J:21:LEU:HD21	1.26	1.17
1:H:107:VAL:HG21	1:L:21:LEU:HD23	1.24	1.17
1:D:93:LEU:HD12	1:I:173:VAL:HG11	1.24	1.16
1:F:161:ARG:NH1	1:J:24:ILE:HG12	1.59	1.16
1:M:161:ARG:NH1	1:R:24:ILE:HG12	1.59	1.16
1:J:161:ARG:NH1	1:M:24:ILE:HG12	1.59	1.16
1:I:93:LEU:HD12	1:M:173:VAL:HG11	1.24	1.16
1:N:107:VAL:HG21	1:S:21:LEU:HD23	1.24	1.16
1:Q:161:ARG:NH1	1:P:24:ILE:HG12	1.59	1.16
1:A:93:LEU:HD12	1:F:173:VAL:HG11	1.24	1.16
1:A:161:ARG:NH1	1:E:24:ILE:HG12	1.59	1.16
1:Q:24:ILE:HG12	1:I:161:ARG:NH1	1.59	1.15
1:P:161:ARG:NH1	1:U:24:ILE:HG12	1.59	1.15
1:U:161:ARG:NH1	1:Y:24:ILE:HG12	1.59	1.15
1:V:107:VAL:HG21	1:Z:21:LEU:HD23	1.24	1.15
1:F:107:VAL:HG21	1:J:21:LEU:HD23	1.24	1.15
1:P:107:VAL:HG21	1:U:21:LEU:HD21	1.26	1.15
1:P:107:VAL:HG21	1:U:21:LEU:HD23	1.24	1.15
1:E:161:ARG:NH1	1:I:24:ILE:HG12	1.59	1.15
1:J:161:ARG:NH1	1:M:24:ILE:CG1	2.10	1.15
1:K:93:LEU:HD12	1:O:173:VAL:HG11	1.24	1.15
1:N:161:ARG:NH1	1:S:24:ILE:CG1	2.10	1.15
1:L:107:VAL:HG21	1:O:21:LEU:HD21	1.26	1.15
1:R:161:ARG:NH1	1:V:24:ILE:CG1	2.10	1.15
1:A:161:ARG:NH1	1:E:24:ILE:CG1	2.10	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:161:ARG:NH1	1:I:24:ILE:CG1	2.10	1.15
1:D:161:ARG:NH1	1:H:24:ILE:CG1	2.10	1.14
1:F:161:ARG:NH1	1:J:24:ILE:CG1	2.10	1.14
1:Q:24:ILE:CG1	1:I:161:ARG:NH1	2.10	1.14
1:S:161:ARG:NH1	1:W:24:ILE:CG1	2.10	1.14
1:G:107:VAL:HG21	1:K:21:LEU:HD23	1.24	1.13
1:O:107:VAL:HG21	1:T:21:LEU:HD23	1.24	1.13
1:O:107:VAL:HG21	1:T:21:LEU:HD21	1.26	1.13
1:H:107:VAL:HG21	1:L:21:LEU:HD21	1.26	1.13
1:J:107:VAL:HG21	1:M:21:LEU:HD21	1.26	1.13
1:M:107:VAL:HG21	1:R:21:LEU:HD23	1.24	1.13
1:M:161:ARG:NH1	1:R:24:ILE:CG1	2.10	1.13
1:N:93:LEU:HD12	1:T:173:VAL:HG11	1.24	1.13
1:U:161:ARG:NH1	1:Y:24:ILE:CG1	2.10	1.13
1:B:93:LEU:HD12	1:G:173:VAL:HG11	1.24	1.12
1:G:93:LEU:HD12	1:L:173:VAL:HG11	1.24	1.12
1:K:161:ARG:NH1	1:N:24:ILE:CG1	2.10	1.13
1:T:161:ARG:NH1	1:X:24:ILE:CG1	2.10	1.12
1:A:107:VAL:HG21	1:E:21:LEU:HD21	1.26	1.12
1:C:161:ARG:NH1	1:G:24:ILE:CG1	2.10	1.12
1:O:161:ARG:NH1	1:T:24:ILE:CG1	2.10	1.12
1:G:161:ARG:NH1	1:K:24:ILE:CG1	2.10	1.12
1:K:107:VAL:HG21	1:N:21:LEU:HD21	1.26	1.12
1:N:107:VAL:HG21	1:S:21:LEU:HD21	1.26	1.12
1:Q:107:VAL:HG21	1:P:21:LEU:HD21	1.26	1.12
1:Q:173:VAL:HG11	1:H:93:LEU:HD12	1.24	1.12
1:B:161:ARG:NH1	1:F:24:ILE:CG1	2.10	1.12
1:H:161:ARG:NH1	1:L:24:ILE:CG1	2.10	1.12
1:M:93:LEU:HD12	1:S:173:VAL:HG11	1.24	1.12
1:C:93:LEU:HD12	1:H:173:VAL:HG11	1.24	1.11
1:L:161:ARG:NH1	1:O:24:ILE:CG1	2.10	1.11
1:E:107:VAL:HG21	1:I:21:LEU:HD23	1.24	1.11
1:Q:21:LEU:HD23	1:I:107:VAL:HG21	1.24	1.11
1:P:161:ARG:NH1	1:U:24:ILE:CG1	2.10	1.10
1:Q:161:ARG:NH1	1:P:24:ILE:CG1	2.10	1.10
1:R:93:LEU:HD12	1:W:173:VAL:HG11	1.24	1.10
1:S:93:LEU:HD12	1:X:173:VAL:HG11	1.24	1.10
1:T:107:VAL:HG21	1:X:21:LEU:HD21	1.26	1.10
1:V:161:ARG:NH1	1:Z:24:ILE:CG1	2.10	1.10
1:Q:93:LEU:HD12	1:R:173:VAL:HG11	1.24	1.10
1:E:107:VAL:HG21	1:I:21:LEU:HD21	1.26	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:93:LEU:HD12	1:P:173:VAL:HG11	1.24	1.10
1:O:93:LEU:HD12	1:U:173:VAL:HG11	1.24	1.09
1:Q:21:LEU:HD21	1:I:107:VAL:HG21	1.26	1.09
1:B:107:VAL:HG21	1:F:21:LEU:HD23	1.24	1.09
1:G:107:VAL:HG21	1:K:21:LEU:HD21	1.26	1.09
1:M:107:VAL:HG21	1:R:21:LEU:HD21	1.26	1.09
1:V:107:VAL:HG21	1:Z:21:LEU:HD21	1.26	1.09
1:R:107:VAL:HG21	1:V:21:LEU:HD23	1.24	1.09
1:T:93:LEU:HD12	1:Y:173:VAL:HG11	1.24	1.09
1:T:107:VAL:HG21	1:X:21:LEU:HD23	1.24	1.09
1:C:107:VAL:HG21	1:G:21:LEU:HD21	1.26	1.09
1:K:107:VAL:HG21	1:N:21:LEU:HD23	1.24	1.09
1:D:107:VAL:HG21	1:H:21:LEU:HD21	1.26	1.09
1:S:107:VAL:HG21	1:W:21:LEU:HD21	1.26	1.08
1:U:107:VAL:HG21	1:Y:21:LEU:HD23	1.24	1.08
1:R:107:VAL:HG21	1:V:21:LEU:HD21	1.26	1.08
1:L:107:VAL:HG21	1:O:21:LEU:HD23	1.24	1.08
1:C:107:VAL:HG21	1:G:21:LEU:HD23	1.24	1.08
1:U:93:LEU:HD12	1:Z:173:VAL:HG11	1.24	1.07
1:P:93:LEU:HD12	1:V:173:VAL:HG11	1.24	1.06
1:A:96:VAL:CG1	1:F:173:VAL:CG2	2.41	0.99
1:Q:96:VAL:CG1	1:R:173:VAL:CG2	2.41	0.99
1:Q:173:VAL:CG2	1:H:96:VAL:CG1	2.41	0.99
1:E:96:VAL:CG1	1:J:173:VAL:CG2	2.41	0.99
1:D:96:VAL:CG1	1:I:173:VAL:CG2	2.41	0.99
1:I:96:VAL:CG1	1:M:173:VAL:CG2	2.41	0.99
1:F:96:VAL:CG1	1:K:173:VAL:CG2	2.41	0.99
1:S:96:VAL:CG1	1:X:173:VAL:CG2	2.41	0.99
1:T:96:VAL:CG1	1:Y:173:VAL:CG2	2.41	0.99
1:C:96:VAL:CG1	1:H:173:VAL:CG2	2.41	0.99
1:L:96:VAL:CG1	1:P:173:VAL:CG2	2.41	0.99
1:P:96:VAL:CG1	1:V:173:VAL:CG2	2.41	0.99
1:B:96:VAL:CG1	1:G:173:VAL:CG2	2.41	0.98
1:G:96:VAL:CG1	1:L:173:VAL:CG2	2.41	0.98
1:J:96:VAL:CG1	1:N:173:VAL:CG2	2.41	0.98
1:R:96:VAL:CG1	1:W:173:VAL:CG2	2.41	0.98
1:M:96:VAL:CG1	1:S:173:VAL:CG2	2.41	0.98
1:N:96:VAL:CG1	1:T:173:VAL:CG2	2.41	0.98
1:K:96:VAL:CG1	1:O:173:VAL:CG2	2.41	0.98
1:U:96:VAL:CG1	1:Z:173:VAL:CG2	2.41	0.97
1:O:96:VAL:CG1	1:U:173:VAL:CG2	2.41	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:107:VAL:CG2	1:O:21:LEU:CD2	2.45	0.95
1:K:107:VAL:CG2	1:N:21:LEU:CD2	2.45	0.94
1:B:107:VAL:CG2	1:F:21:LEU:CD2	2.45	0.94
1:D:107:VAL:CG2	1:H:21:LEU:CD2	2.45	0.94
1:M:93:LEU:CD1	1:S:173:VAL:HG12	1.97	0.94
1:M:107:VAL:CG2	1:R:21:LEU:CD2	2.45	0.94
1:C:107:VAL:CG2	1:G:21:LEU:CD2	2.45	0.94
1:J:93:LEU:CD1	1:N:173:VAL:HG12	1.97	0.94
1:O:107:VAL:CG2	1:T:21:LEU:CD2	2.45	0.94
1:R:107:VAL:CG2	1:V:21:LEU:CD2	2.45	0.94
1:D:93:LEU:CD1	1:I:173:VAL:HG12	1.97	0.94
1:L:93:LEU:CD1	1:P:173:VAL:HG12	1.97	0.94
1:N:107:VAL:CG2	1:S:21:LEU:CD2	2.45	0.94
1:O:93:LEU:CD1	1:U:173:VAL:HG12	1.97	0.94
1:P:107:VAL:CG2	1:U:21:LEU:CD2	2.45	0.94
1:U:93:LEU:CD1	1:Z:173:VAL:HG12	1.97	0.94
1:S:93:LEU:CD1	1:X:173:VAL:HG12	1.97	0.94
1:S:107:VAL:CG2	1:W:21:LEU:CD2	2.45	0.94
1:A:107:VAL:CG2	1:E:21:LEU:CD2	2.45	0.93
1:A:93:LEU:CD1	1:F:173:VAL:HG12	1.97	0.93
1:E:107:VAL:CG2	1:I:21:LEU:CD2	2.45	0.93
1:F:107:VAL:CG2	1:J:21:LEU:CD2	2.45	0.93
1:J:107:VAL:CG2	1:M:21:LEU:CD2	2.45	0.93
1:P:93:LEU:CD1	1:V:173:VAL:HG12	1.97	0.93
1:Q:93:LEU:CD1	1:R:173:VAL:HG12	1.97	0.93
1:E:93:LEU:CD1	1:J:173:VAL:HG12	1.97	0.93
1:N:161:ARG:NH1	1:S:24:ILE:HG13	1.84	0.93
1:T:107:VAL:CG2	1:X:21:LEU:CD2	2.45	0.93
1:Q:161:ARG:NH1	1:P:24:ILE:HG13	1.84	0.93
1:B:93:LEU:CD1	1:G:173:VAL:HG12	1.97	0.93
1:H:161:ARG:NH1	1:L:24:ILE:HG13	1.84	0.93
1:J:161:ARG:NH1	1:M:24:ILE:HG13	1.84	0.93
1:Q:24:ILE:HG13	1:I:161:ARG:NH1	1.84	0.92
1:M:161:ARG:NH1	1:R:24:ILE:HG13	1.84	0.92
1:I:93:LEU:CD1	1:M:173:VAL:HG12	1.97	0.92
1:Q:21:LEU:CD2	1:I:107:VAL:CG2	2.45	0.92
1:G:107:VAL:CG2	1:K:21:LEU:CD2	2.45	0.92
1:R:93:LEU:CD1	1:W:173:VAL:HG12	1.97	0.92
1:T:93:LEU:CD1	1:Y:173:VAL:HG12	1.97	0.92
1:T:161:ARG:NH1	1:X:24:ILE:HG13	1.84	0.92
1:C:161:ARG:NH1	1:G:24:ILE:HG13	1.84	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:161:ARG:NH1	1:V:24:ILE:HG13	1.84	0.92
1:H:107:VAL:CG2	1:L:21:LEU:CD2	2.45	0.92
1:D:161:ARG:NH1	1:H:24:ILE:HG13	1.84	0.92
1:G:93:LEU:CD1	1:L:173:VAL:HG12	1.97	0.92
1:Q:173:VAL:HG12	1:H:93:LEU:CD1	1.97	0.92
1:E:161:ARG:NH1	1:I:24:ILE:HG13	1.84	0.92
1:D:107:VAL:CG2	1:H:21:LEU:HD21	2.01	0.91
1:N:107:VAL:CG2	1:S:21:LEU:HD21	2.01	0.91
1:Q:21:LEU:HD21	1:I:107:VAL:CG2	2.01	0.91
1:E:107:VAL:CG2	1:I:21:LEU:HD21	2.01	0.91
1:J:107:VAL:CG2	1:M:21:LEU:HD21	2.01	0.91
1:K:161:ARG:NH1	1:N:24:ILE:HG13	1.84	0.91
1:M:107:VAL:CG2	1:R:21:LEU:HD21	2.01	0.91
1:S:107:VAL:CG2	1:W:21:LEU:HD21	2.01	0.91
1:S:161:ARG:NH1	1:W:24:ILE:HG13	1.84	0.91
1:F:161:ARG:NH1	1:J:24:ILE:HG13	1.84	0.91
1:U:161:ARG:NH1	1:Y:24:ILE:HG13	1.84	0.91
1:E:96:VAL:CG1	1:J:173:VAL:HG22	2.01	0.91
1:I:96:VAL:CG1	1:M:173:VAL:HG22	2.01	0.91
1:O:161:ARG:NH1	1:T:24:ILE:HG13	1.84	0.91
1:T:107:VAL:CG2	1:X:21:LEU:HD21	2.01	0.91
1:A:96:VAL:CG1	1:F:173:VAL:HG22	2.01	0.91
1:B:96:VAL:CG1	1:G:173:VAL:HG22	2.01	0.91
1:D:96:VAL:CG1	1:I:173:VAL:HG22	2.01	0.91
1:U:107:VAL:CG2	1:Y:21:LEU:CD2	2.45	0.91
1:V:107:VAL:CG2	1:Z:21:LEU:CD2	2.45	0.91
1:B:107:VAL:CG2	1:F:21:LEU:HD21	2.01	0.91
1:G:107:VAL:CG2	1:K:21:LEU:HD21	2.01	0.91
1:J:96:VAL:CG1	1:N:173:VAL:HG22	2.01	0.91
1:K:93:LEU:CD1	1:O:173:VAL:HG12	1.97	0.91
1:L:107:VAL:CG2	1:O:21:LEU:HD21	2.01	0.91
1:F:96:VAL:CG1	1:K:173:VAL:HG22	2.01	0.91
1:P:107:VAL:CG2	1:U:21:LEU:HD21	2.01	0.91
1:C:93:LEU:CD1	1:H:173:VAL:HG12	1.97	0.91
1:L:96:VAL:CG1	1:P:173:VAL:HG22	2.01	0.91
1:R:107:VAL:CG2	1:V:21:LEU:HD21	2.01	0.91
1:Q:96:VAL:CG1	1:R:173:VAL:HG22	2.01	0.91
1:Q:107:VAL:CG2	1:P:21:LEU:HD21	2.01	0.91
1:A:107:VAL:CG2	1:E:21:LEU:HD21	2.01	0.91
1:B:161:ARG:NH1	1:F:24:ILE:HG13	1.84	0.91
1:U:107:VAL:CG2	1:Y:21:LEU:HD21	2.01	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:107:VAL:CG2	1:Z:21:LEU:HD21	2.01	0.91
1:Q:173:VAL:HG22	1:H:96:VAL:CG1	2.01	0.90
1:N:93:LEU:CD1	1:T:173:VAL:HG12	1.97	0.90
1:C:96:VAL:CG1	1:H:173:VAL:HG22	2.01	0.90
1:M:96:VAL:CG1	1:S:173:VAL:HG22	2.01	0.90
1:N:96:VAL:CG1	1:T:173:VAL:HG22	2.01	0.90
1:U:96:VAL:CG1	1:Z:173:VAL:HG22	2.01	0.90
1:K:96:VAL:CG1	1:O:173:VAL:HG22	2.01	0.90
1:F:107:VAL:CG2	1:J:21:LEU:HD21	2.01	0.90
1:F:93:LEU:CD1	1:K:173:VAL:HG12	1.97	0.90
1:H:107:VAL:CG2	1:L:21:LEU:HD21	2.01	0.90
1:O:96:VAL:CG1	1:U:173:VAL:HG22	2.01	0.90
1:O:107:VAL:CG2	1:T:21:LEU:HD21	2.01	0.90
1:P:96:VAL:CG1	1:V:173:VAL:HG22	2.01	0.90
1:A:161:ARG:NH1	1:E:24:ILE:HG13	1.84	0.90
1:V:161:ARG:NH1	1:Z:24:ILE:HG13	1.84	0.90
1:R:96:VAL:CG1	1:W:173:VAL:HG22	2.01	0.90
1:G:161:ARG:NH1	1:K:24:ILE:HG13	1.84	0.90
1:Q:107:VAL:CG2	1:P:21:LEU:CD2	2.45	0.89
1:C:107:VAL:CG2	1:G:21:LEU:HD21	2.01	0.89
1:N:93:LEU:CD1	1:T:173:VAL:HG11	1.94	0.89
1:K:107:VAL:CG2	1:N:21:LEU:HD21	2.01	0.89
1:L:161:ARG:NH1	1:O:24:ILE:HG13	1.84	0.89
1:P:161:ARG:NH1	1:U:24:ILE:HG13	1.84	0.89
1:S:96:VAL:CG1	1:X:173:VAL:HG22	2.01	0.89
1:T:96:VAL:CG1	1:Y:173:VAL:HG22	2.01	0.89
1:S:93:LEU:CD1	1:X:173:VAL:HG11	1.94	0.89
1:G:96:VAL:CG1	1:L:173:VAL:HG22	2.01	0.88
1:S:96:VAL:HG12	1:X:173:VAL:CG2	2.04	0.88
1:N:96:VAL:HG12	1:T:173:VAL:CG2	2.04	0.88
1:U:96:VAL:HG12	1:Z:173:VAL:CG2	2.04	0.88
1:D:96:VAL:HG12	1:I:173:VAL:CG2	2.04	0.88
1:B:96:VAL:HG12	1:G:173:VAL:CG2	2.04	0.87
1:P:96:VAL:HG12	1:V:173:VAL:CG2	2.04	0.87
1:F:96:VAL:HG12	1:K:173:VAL:CG2	2.04	0.87
1:R:93:LEU:CD1	1:W:173:VAL:HG11	1.94	0.87
1:T:96:VAL:HG12	1:Y:173:VAL:CG2	2.04	0.87
1:J:96:VAL:HG12	1:N:173:VAL:CG2	2.04	0.87
1:R:96:VAL:HG12	1:W:173:VAL:CG2	2.04	0.87
1:B:93:LEU:CD1	1:G:173:VAL:HG11	1.94	0.87
1:M:96:VAL:HG12	1:S:173:VAL:CG2	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:96:VAL:HG12	1:R:173:VAL:CG2	2.04	0.87
1:A:96:VAL:HG12	1:F:173:VAL:CG2	2.04	0.87
1:E:96:VAL:HG12	1:J:173:VAL:CG2	2.04	0.86
1:I:96:VAL:HG12	1:M:173:VAL:CG2	2.04	0.86
1:F:93:LEU:CD1	1:K:173:VAL:HG11	1.94	0.86
1:K:96:VAL:HG12	1:O:173:VAL:CG2	2.04	0.86
1:M:93:LEU:CD1	1:S:173:VAL:HG11	1.94	0.85
1:U:93:LEU:CD1	1:Z:173:VAL:HG11	1.94	0.85
1:O:96:VAL:HG12	1:U:173:VAL:CG2	2.04	0.85
1:J:93:LEU:CD1	1:N:173:VAL:HG11	1.94	0.85
1:Q:173:VAL:CG2	1:H:96:VAL:HG12	2.04	0.85
1:L:96:VAL:HG12	1:P:173:VAL:CG2	2.04	0.85
1:A:42:ALA:HB2	1:A:71:VAL:HG11	1.59	0.85
1:C:96:VAL:HG12	1:H:173:VAL:CG2	2.04	0.85
1:G:96:VAL:HG12	1:L:173:VAL:CG2	2.04	0.85
1:F:42:ALA:HB2	1:F:71:VAL:HG11	1.59	0.85
1:P:93:LEU:CD1	1:V:173:VAL:HG11	1.94	0.85
1:X:42:ALA:HB2	1:X:71:VAL:HG11	1.59	0.85
1:E:42:ALA:HB2	1:E:71:VAL:HG11	1.59	0.85
1:P:62:LEU:HD11	1:P:120:ARG:CG	2.07	0.84
1:J:62:LEU:HD11	1:J:120:ARG:CG	2.08	0.84
1:M:62:LEU:HD11	1:M:120:ARG:CG	2.07	0.84
1:B:62:LEU:HD11	1:B:120:ARG:CG	2.07	0.84
1:U:62:LEU:HD11	1:U:120:ARG:CG	2.08	0.84
1:Q:62:LEU:HD11	1:Q:120:ARG:CG	2.07	0.84
1:B:42:ALA:HB2	1:B:71:VAL:HG11	1.59	0.84
1:F:62:LEU:HD11	1:F:120:ARG:CG	2.08	0.84
1:Y:42:ALA:HB2	1:Y:71:VAL:HG11	1.59	0.84
1:Y:62:LEU:HD11	1:Y:120:ARG:CG	2.08	0.84
1:N:62:LEU:HD11	1:N:120:ARG:CG	2.07	0.84
1:R:62:LEU:HD11	1:R:120:ARG:CG	2.08	0.84
1:S:62:LEU:HD11	1:S:120:ARG:CG	2.08	0.84
1:I:62:LEU:HD11	1:I:120:ARG:CG	2.07	0.84
1:J:42:ALA:HB2	1:J:71:VAL:HG11	1.59	0.84
1:K:42:ALA:HB2	1:K:71:VAL:HG11	1.59	0.84
1:K:62:LEU:HD11	1:K:120:ARG:CG	2.08	0.84
1:L:62:LEU:HD11	1:L:120:ARG:CG	2.08	0.84
1:V:62:LEU:HD11	1:V:120:ARG:CG	2.08	0.84
1:E:62:LEU:HD11	1:E:120:ARG:CG	2.07	0.84
1:S:42:ALA:HB2	1:S:71:VAL:HG11	1.59	0.84
1:W:42:ALA:HB2	1:W:71:VAL:HG11	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:62:LEU:HD11	1:Z:120:ARG:CG	2.08	0.84
1:H:62:LEU:HD11	1:H:120:ARG:CG	2.08	0.84
1:A:62:LEU:HD11	1:A:120:ARG:CG	2.08	0.84
1:C:161:ARG:CD	1:G:24:ILE:HG12	2.08	0.84
1:L:161:ARG:CD	1:O:24:ILE:HG12	2.08	0.84
1:P:161:ARG:CD	1:U:24:ILE:HG12	2.08	0.84
1:W:62:LEU:HD11	1:W:120:ARG:CG	2.07	0.84
1:G:42:ALA:HB2	1:G:71:VAL:HG11	1.59	0.84
1:O:62:LEU:HD11	1:O:120:ARG:CG	2.08	0.84
1:T:96:VAL:HG11	1:Y:173:VAL:HG22	1.60	0.84
1:U:161:ARG:CD	1:Y:24:ILE:HG12	2.08	0.84
1:A:161:ARG:CD	1:E:24:ILE:HG12	2.08	0.83
1:D:62:LEU:HD11	1:D:120:ARG:CG	2.07	0.83
1:G:161:ARG:CD	1:K:24:ILE:HG12	2.08	0.83
1:H:161:ARG:CD	1:L:24:ILE:HG12	2.08	0.83
1:M:161:ARG:CD	1:R:24:ILE:HG12	2.08	0.83
1:T:42:ALA:HB2	1:T:71:VAL:HG11	1.59	0.83
1:N:161:ARG:CD	1:S:24:ILE:HG12	2.08	0.83
1:U:96:VAL:HG11	1:Z:173:VAL:HG22	1.60	0.83
1:V:161:ARG:CD	1:Z:24:ILE:HG12	2.08	0.83
1:X:62:LEU:HD11	1:X:120:ARG:CG	2.08	0.83
1:N:96:VAL:HG11	1:T:173:VAL:HG22	1.60	0.83
1:Q:93:LEU:CD1	1:R:173:VAL:HG11	1.94	0.83
1:C:96:VAL:HG11	1:H:173:VAL:HG22	1.60	0.83
1:O:96:VAL:HG11	1:U:173:VAL:HG22	1.60	0.83
1:O:161:ARG:CD	1:T:24:ILE:HG12	2.08	0.83
1:P:96:VAL:HG11	1:V:173:VAL:HG22	1.60	0.83
1:E:161:ARG:CD	1:I:24:ILE:HG12	2.08	0.83
1:T:62:LEU:HD11	1:T:120:ARG:CG	2.08	0.83
1:Q:24:ILE:HG12	1:I:161:ARG:CD	2.08	0.83
1:B:161:ARG:CD	1:F:24:ILE:HG12	2.08	0.83
1:C:62:LEU:HD11	1:C:120:ARG:CG	2.08	0.83
1:D:42:ALA:HB2	1:D:71:VAL:HG11	1.59	0.83
1:G:62:LEU:HD11	1:G:120:ARG:CG	2.08	0.83
1:I:42:ALA:HB2	1:I:71:VAL:HG11	1.59	0.83
1:S:96:VAL:HG11	1:X:173:VAL:HG22	1.60	0.83
1:Q:161:ARG:CD	1:P:24:ILE:HG12	2.08	0.83
1:F:161:ARG:CD	1:J:24:ILE:HG12	2.08	0.83
1:J:161:ARG:CD	1:M:24:ILE:HG12	2.08	0.83
1:B:96:VAL:HG11	1:G:173:VAL:HG22	1.60	0.83
1:R:96:VAL:HG11	1:W:173:VAL:HG22	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:161:ARG:CD	1:W:24:ILE:HG12	2.08	0.83
1:Z:42:ALA:HB2	1:Z:71:VAL:HG11	1.59	0.83
1:A:96:VAL:HG11	1:F:173:VAL:HG22	1.60	0.83
1:K:161:ARG:CD	1:N:24:ILE:HG12	2.08	0.83
1:N:42:ALA:HB2	1:N:71:VAL:HG11	1.59	0.83
1:T:161:ARG:CD	1:X:24:ILE:HG12	2.08	0.83
1:C:42:ALA:HB2	1:C:71:VAL:HG11	1.59	0.82
1:D:161:ARG:CD	1:H:24:ILE:HG12	2.08	0.82
1:K:96:VAL:HG11	1:O:173:VAL:HG22	1.60	0.82
1:U:42:ALA:HB2	1:U:71:VAL:HG11	1.59	0.82
1:O:42:ALA:HB2	1:O:71:VAL:HG11	1.59	0.82
1:R:161:ARG:CD	1:V:24:ILE:HG12	2.08	0.82
1:D:96:VAL:HG11	1:I:173:VAL:HG22	1.60	0.82
1:H:42:ALA:HB2	1:H:71:VAL:HG11	1.59	0.82
1:L:42:ALA:HB2	1:L:71:VAL:HG11	1.59	0.82
1:M:96:VAL:HG11	1:S:173:VAL:HG22	1.60	0.82
1:P:42:ALA:HB2	1:P:71:VAL:HG11	1.59	0.82
1:R:42:ALA:HB2	1:R:71:VAL:HG11	1.59	0.82
1:V:42:ALA:HB2	1:V:71:VAL:HG11	1.59	0.82
1:Q:96:VAL:HG11	1:R:173:VAL:HG22	1.60	0.82
1:L:96:VAL:HG11	1:P:173:VAL:HG22	1.60	0.82
1:M:42:ALA:HB2	1:M:71:VAL:HG11	1.59	0.82
1:Q:42:ALA:HB2	1:Q:71:VAL:HG11	1.59	0.82
1:J:96:VAL:HG11	1:N:173:VAL:HG22	1.60	0.82
1:Q:173:VAL:HG22	1:H:96:VAL:HG11	1.60	0.82
1:G:96:VAL:HG11	1:L:173:VAL:HG22	1.60	0.81
1:I:93:LEU:CD1	1:M:173:VAL:HG11	1.94	0.81
1:F:96:VAL:HG11	1:K:173:VAL:HG22	1.60	0.81
1:Q:107:VAL:CG2	1:P:21:LEU:HD23	2.10	0.81
1:E:96:VAL:HG11	1:J:173:VAL:HG22	1.60	0.81
1:Y:22:ALA:HB1	1:Y:31:LEU:HG	1.62	0.81
1:A:93:LEU:CD1	1:F:173:VAL:HG11	1.94	0.81
1:O:93:LEU:CD1	1:U:173:VAL:HG11	1.94	0.81
1:D:22:ALA:HB1	1:D:31:LEU:HG	1.62	0.81
1:R:22:ALA:HB1	1:R:31:LEU:HG	1.62	0.81
1:T:22:ALA:HB1	1:T:31:LEU:HG	1.62	0.81
1:E:93:LEU:CD1	1:J:173:VAL:HG11	1.94	0.80
1:I:22:ALA:HB1	1:I:31:LEU:HG	1.62	0.80
1:I:96:VAL:HG11	1:M:173:VAL:HG22	1.60	0.80
1:W:22:ALA:HB1	1:W:31:LEU:HG	1.62	0.80
1:Q:22:ALA:HB1	1:Q:31:LEU:HG	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:93:LEU:CD1	1:P:173:VAL:HG11	1.94	0.80
1:M:22:ALA:HB1	1:M:31:LEU:HG	1.62	0.80
1:R:107:VAL:CG2	1:V:21:LEU:HD23	2.10	0.80
1:E:22:ALA:HB1	1:E:31:LEU:HG	1.62	0.80
1:N:22:ALA:HB1	1:N:31:LEU:HG	1.62	0.80
1:G:107:VAL:CG2	1:K:21:LEU:HD23	2.10	0.80
1:K:107:VAL:CG2	1:N:21:LEU:HD23	2.10	0.80
1:B:22:ALA:HB1	1:B:31:LEU:HG	1.62	0.80
1:H:22:ALA:HB1	1:H:31:LEU:HG	1.62	0.80
1:D:93:LEU:CD1	1:I:173:VAL:HG11	1.94	0.80
1:T:93:LEU:CD1	1:Y:173:VAL:HG11	1.94	0.80
1:V:22:ALA:HB1	1:V:31:LEU:HG	1.62	0.80
1:C:22:ALA:HB1	1:C:31:LEU:HG	1.62	0.80
1:S:22:ALA:HB1	1:S:31:LEU:HG	1.62	0.80
1:U:107:VAL:CG2	1:Y:21:LEU:HD23	2.10	0.80
1:X:22:ALA:HB1	1:X:31:LEU:HG	1.62	0.79
1:G:22:ALA:HB1	1:G:31:LEU:HG	1.62	0.79
1:O:22:ALA:HB1	1:O:31:LEU:HG	1.62	0.79
1:J:22:ALA:HB1	1:J:31:LEU:HG	1.62	0.79
1:P:22:ALA:HB1	1:P:31:LEU:HG	1.62	0.79
1:K:22:ALA:HB1	1:K:31:LEU:HG	1.62	0.79
1:Q:173:VAL:HG11	1:H:93:LEU:CD1	1.94	0.79
1:L:22:ALA:HB1	1:L:31:LEU:HG	1.62	0.79
1:U:22:ALA:HB1	1:U:31:LEU:HG	1.62	0.79
1:F:22:ALA:HB1	1:F:31:LEU:HG	1.62	0.79
1:A:107:VAL:CG2	1:E:21:LEU:HD23	2.10	0.78
1:Z:22:ALA:HB1	1:Z:31:LEU:HG	1.62	0.78
1:P:107:VAL:CG2	1:U:21:LEU:HD23	2.10	0.78
1:D:107:VAL:CG2	1:H:21:LEU:HD23	2.10	0.78
1:N:107:VAL:CG2	1:S:21:LEU:HD23	2.10	0.78
1:C:107:VAL:CG2	1:G:21:LEU:HD23	2.10	0.78
1:T:107:VAL:CG2	1:X:21:LEU:HD23	2.10	0.78
1:A:22:ALA:HB1	1:A:31:LEU:HG	1.62	0.78
1:O:107:VAL:CG2	1:T:21:LEU:HD23	2.10	0.78
1:G:93:LEU:CD1	1:L:173:VAL:HG11	1.94	0.78
1:R:93:LEU:HD12	1:W:173:VAL:HG13	1.66	0.78
1:K:93:LEU:CD1	1:O:173:VAL:HG11	1.94	0.77
1:S:93:LEU:HD12	1:X:173:VAL:HG13	1.66	0.77
1:Q:93:LEU:HD12	1:R:173:VAL:HG13	1.66	0.77
1:F:107:VAL:CG2	1:J:21:LEU:HD23	2.10	0.77
1:B:107:VAL:CG2	1:F:21:LEU:HD23	2.10	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:21:LEU:HD23	1:I:107:VAL:CG2	2.10	0.77
1:M:93:LEU:HD12	1:S:173:VAL:HG13	1.66	0.77
1:J:107:VAL:CG2	1:M:21:LEU:HD23	2.10	0.76
1:L:107:VAL:CG2	1:O:21:LEU:HD23	2.10	0.76
1:P:93:LEU:HD12	1:V:173:VAL:HG13	1.66	0.76
1:H:107:VAL:CG2	1:L:21:LEU:HD23	2.10	0.76
1:A:93:LEU:HD12	1:F:173:VAL:HG13	1.66	0.76
1:E:107:VAL:CG2	1:I:21:LEU:HD23	2.10	0.76
1:M:107:VAL:CG2	1:R:21:LEU:HD23	2.10	0.76
1:C:93:LEU:CD1	1:H:173:VAL:HG11	1.94	0.76
1:I:93:LEU:HD12	1:M:173:VAL:HG13	1.66	0.76
1:Q:173:VAL:HG13	1:H:93:LEU:HD12	1.66	0.75
1:S:107:VAL:CG2	1:W:21:LEU:HD23	2.10	0.75
1:V:107:VAL:CG2	1:Z:21:LEU:HD23	2.10	0.75
1:L:93:LEU:HD12	1:P:173:VAL:HG13	1.66	0.75
1:N:93:LEU:HD12	1:T:173:VAL:HG13	1.66	0.75
1:T:93:LEU:HD12	1:Y:173:VAL:HG13	1.66	0.75
1:U:93:LEU:HD12	1:Z:173:VAL:HG13	1.66	0.75
1:T:96:VAL:HG11	1:Y:173:VAL:CG2	2.15	0.75
1:O:93:LEU:HD12	1:U:173:VAL:HG13	1.66	0.74
1:J:93:LEU:HD12	1:N:173:VAL:HG13	1.66	0.74
1:S:96:VAL:HG11	1:X:173:VAL:CG2	2.16	0.74
1:K:96:VAL:HG11	1:O:173:VAL:CG2	2.15	0.74
1:O:96:VAL:HG11	1:U:173:VAL:CG2	2.16	0.74
1:R:96:VAL:HG11	1:W:173:VAL:CG2	2.16	0.74
1:K:93:LEU:HD12	1:O:173:VAL:HG13	1.66	0.74
1:A:79:ALA:HB1	1:A:88:LEU:CD2	2.18	0.74
1:B:93:LEU:HD12	1:G:173:VAL:HG13	1.66	0.74
1:D:93:LEU:HD12	1:I:173:VAL:HG13	1.66	0.74
1:J:79:ALA:HB1	1:J:88:LEU:CD2	2.18	0.74
1:L:79:ALA:HB1	1:L:88:LEU:CD2	2.18	0.74
1:N:96:VAL:HG11	1:T:173:VAL:CG2	2.16	0.74
1:O:79:ALA:HB1	1:O:88:LEU:CD2	2.18	0.74
1:P:79:ALA:HB1	1:P:88:LEU:CD2	2.18	0.74
1:T:79:ALA:HB1	1:T:88:LEU:CD2	2.18	0.74
1:F:96:VAL:HG11	1:K:173:VAL:CG2	2.16	0.74
1:H:79:ALA:HB1	1:H:88:LEU:CD2	2.18	0.74
1:M:96:VAL:HG11	1:S:173:VAL:CG2	2.15	0.74
1:U:79:ALA:HB1	1:U:88:LEU:CD2	2.18	0.74
1:U:96:VAL:HG11	1:Z:173:VAL:CG2	2.16	0.74
1:V:79:ALA:HB1	1:V:88:LEU:CD2	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:79:ALA:HB1	1:X:88:LEU:CD2	2.18	0.74
1:Y:79:ALA:HB1	1:Y:88:LEU:CD2	2.18	0.74
1:Q:79:ALA:HB1	1:Q:88:LEU:CD2	2.18	0.73
1:D:79:ALA:HB1	1:D:88:LEU:CD2	2.18	0.73
1:N:79:ALA:HB1	1:N:88:LEU:CD2	2.18	0.73
1:W:79:ALA:HB1	1:W:88:LEU:CD2	2.18	0.73
1:E:79:ALA:HB1	1:E:88:LEU:CD2	2.18	0.73
1:I:79:ALA:HB1	1:I:88:LEU:CD2	2.18	0.73
1:B:79:ALA:HB1	1:B:88:LEU:CD2	2.18	0.73
1:C:79:ALA:HB1	1:C:88:LEU:CD2	2.18	0.73
1:F:79:ALA:HB1	1:F:88:LEU:CD2	2.18	0.73
1:E:93:LEU:HD12	1:J:173:VAL:HG13	1.66	0.73
1:R:79:ALA:HB1	1:R:88:LEU:CD2	2.18	0.73
1:A:96:VAL:HG11	1:F:173:VAL:CG2	2.16	0.73
1:G:93:LEU:HD12	1:L:173:VAL:HG13	1.66	0.73
1:Q:96:VAL:HG11	1:R:173:VAL:CG2	2.16	0.73
1:C:93:LEU:HD12	1:H:173:VAL:HG13	1.66	0.73
1:J:96:VAL:HG11	1:N:173:VAL:CG2	2.16	0.73
1:K:79:ALA:HB1	1:K:88:LEU:CD2	2.18	0.73
1:S:79:ALA:HB1	1:S:88:LEU:CD2	2.18	0.73
1:G:79:ALA:HB1	1:G:88:LEU:CD2	2.18	0.73
1:B:96:VAL:HG11	1:G:173:VAL:CG2	2.16	0.72
1:I:96:VAL:HG11	1:M:173:VAL:CG2	2.16	0.72
1:M:79:ALA:HB1	1:M:88:LEU:CD2	2.18	0.72
1:Z:79:ALA:HB1	1:Z:88:LEU:CD2	2.18	0.72
1:G:96:VAL:HG11	1:L:173:VAL:CG2	2.16	0.72
1:C:96:VAL:HG11	1:H:173:VAL:CG2	2.15	0.72
1:E:96:VAL:HG11	1:J:173:VAL:CG2	2.16	0.72
1:S:161:ARG:NE	1:W:24:ILE:CG1	2.40	0.72
1:Q:173:VAL:CG2	1:H:96:VAL:HG11	2.16	0.72
1:F:93:LEU:HD12	1:K:173:VAL:HG13	1.66	0.72
1:Y:72:ALA:HB2	1:Y:94:VAL:HG12	1.72	0.71
1:D:96:VAL:HG11	1:I:173:VAL:CG2	2.16	0.71
1:F:72:ALA:HB2	1:F:94:VAL:HG12	1.72	0.71
1:O:72:ALA:HB2	1:O:94:VAL:HG12	1.72	0.71
1:B:72:ALA:HB2	1:B:94:VAL:HG12	1.72	0.71
1:L:96:VAL:HG11	1:P:173:VAL:CG2	2.16	0.71
1:N:72:ALA:HB2	1:N:94:VAL:HG12	1.72	0.71
1:G:72:ALA:HB2	1:G:94:VAL:HG12	1.72	0.71
1:K:72:ALA:HB2	1:K:94:VAL:HG12	1.72	0.71
1:A:72:ALA:HB2	1:A:94:VAL:HG12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:72:ALA:HB2	1:T:94:VAL:HG12	1.72	0.71
1:X:72:ALA:HB2	1:X:94:VAL:HG12	1.72	0.71
1:U:72:ALA:HB2	1:U:94:VAL:HG12	1.72	0.71
1:V:161:ARG:NE	1:Z:24:ILE:CG1	2.40	0.70
1:Z:72:ALA:HB2	1:Z:94:VAL:HG12	1.72	0.70
1:L:72:ALA:HB2	1:L:94:VAL:HG12	1.72	0.70
1:R:161:ARG:NE	1:V:24:ILE:CG1	2.40	0.70
1:J:72:ALA:HB2	1:J:94:VAL:HG12	1.72	0.70
1:O:160:LYS:NZ	1:O:164:GLU:OE2	2.25	0.70
1:R:72:ALA:HB2	1:R:94:VAL:HG12	1.72	0.70
1:Q:72:ALA:HB2	1:Q:94:VAL:HG12	1.72	0.70
1:D:72:ALA:HB2	1:D:94:VAL:HG12	1.72	0.70
1:P:72:ALA:HB2	1:P:94:VAL:HG12	1.72	0.70
1:Y:160:LYS:NZ	1:Y:164:GLU:OE2	2.25	0.70
1:C:72:ALA:HB2	1:C:94:VAL:HG12	1.72	0.70
1:G:160:LYS:NZ	1:G:164:GLU:OE2	2.25	0.70
1:M:93:LEU:HD13	1:S:173:VAL:CG1	2.21	0.70
1:W:72:ALA:HB2	1:W:94:VAL:HG12	1.72	0.70
1:A:160:LYS:NZ	1:A:164:GLU:OE2	2.25	0.70
1:E:72:ALA:HB2	1:E:94:VAL:HG12	1.72	0.70
1:I:72:ALA:HB2	1:I:94:VAL:HG12	1.72	0.70
1:S:72:ALA:HB2	1:S:94:VAL:HG12	1.72	0.70
1:D:160:LYS:NZ	1:D:164:GLU:OE2	2.25	0.70
1:F:160:LYS:NZ	1:F:164:GLU:OE2	2.25	0.70
1:N:160:LYS:NZ	1:N:164:GLU:OE2	2.25	0.70
1:H:72:ALA:HB2	1:H:94:VAL:HG12	1.72	0.69
1:I:93:LEU:HD13	1:M:173:VAL:CG1	2.21	0.69
1:J:160:LYS:NZ	1:J:164:GLU:OE2	2.25	0.69
1:N:93:LEU:HD13	1:T:173:VAL:CG1	2.21	0.69
1:U:160:LYS:NZ	1:U:164:GLU:OE2	2.25	0.69
1:Q:160:LYS:NZ	1:Q:164:GLU:OE2	2.25	0.69
1:A:93:LEU:HD13	1:F:173:VAL:CG1	2.21	0.69
1:M:72:ALA:HB2	1:M:94:VAL:HG12	1.72	0.69
1:P:96:VAL:HG11	1:V:173:VAL:CG2	2.16	0.69
1:V:160:LYS:NZ	1:V:164:GLU:OE2	2.25	0.69
1:X:160:LYS:NZ	1:X:164:GLU:OE2	2.25	0.69
1:B:160:LYS:NZ	1:B:164:GLU:OE2	2.25	0.69
1:L:160:LYS:NZ	1:L:164:GLU:OE2	2.25	0.69
1:V:72:ALA:HB2	1:V:94:VAL:HG12	1.72	0.69
1:K:160:LYS:NZ	1:K:164:GLU:OE2	2.25	0.69
1:C:161:ARG:NE	1:G:24:ILE:CG1	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:100:THR:O	1:M:103:VAL:HB	1.93	0.69
1:S:93:LEU:HD13	1:X:173:VAL:CG1	2.21	0.69
1:S:160:LYS:NZ	1:S:164:GLU:OE2	2.25	0.69
1:T:160:LYS:NZ	1:T:164:GLU:OE2	2.25	0.69
1:E:100:THR:O	1:E:103:VAL:HB	1.93	0.69
1:W:100:THR:O	1:W:103:VAL:HB	1.93	0.69
1:C:160:LYS:NZ	1:C:164:GLU:OE2	2.25	0.69
1:L:93:LEU:HD13	1:P:173:VAL:CG1	2.21	0.69
1:D:100:THR:O	1:D:103:VAL:HB	1.93	0.68
1:S:100:THR:O	1:S:103:VAL:HB	1.93	0.68
1:Q:100:THR:O	1:Q:103:VAL:HB	1.93	0.68
1:L:100:THR:O	1:L:103:VAL:HB	1.93	0.68
1:R:100:THR:O	1:R:103:VAL:HB	1.93	0.68
1:G:100:THR:O	1:G:103:VAL:HB	1.93	0.68
1:O:100:THR:O	1:O:103:VAL:HB	1.93	0.68
1:H:160:LYS:NZ	1:H:164:GLU:OE2	2.25	0.68
1:T:93:LEU:HD13	1:Y:173:VAL:CG1	2.21	0.68
1:W:160:LYS:NZ	1:W:164:GLU:OE2	2.25	0.68
1:Z:160:LYS:NZ	1:Z:164:GLU:OE2	2.25	0.68
1:E:160:LYS:NZ	1:E:164:GLU:OE2	2.25	0.68
1:K:100:THR:O	1:K:103:VAL:HB	1.93	0.68
1:M:160:LYS:NZ	1:M:164:GLU:OE2	2.25	0.68
1:V:100:THR:O	1:V:103:VAL:HB	1.93	0.68
1:C:100:THR:O	1:C:103:VAL:HB	1.93	0.68
1:E:93:LEU:HD13	1:J:173:VAL:CG1	2.21	0.68
1:N:100:THR:O	1:N:103:VAL:HB	1.93	0.68
1:P:160:LYS:NZ	1:P:164:GLU:OE2	2.25	0.68
1:X:100:THR:O	1:X:103:VAL:HB	1.93	0.68
1:F:100:THR:O	1:F:103:VAL:HB	1.93	0.68
1:J:100:THR:O	1:J:103:VAL:HB	1.93	0.68
1:H:100:THR:O	1:H:103:VAL:HB	1.93	0.68
1:T:100:THR:O	1:T:103:VAL:HB	1.93	0.68
1:Z:100:THR:O	1:Z:103:VAL:HB	1.93	0.68
1:F:93:LEU:HD13	1:K:173:VAL:CG1	2.21	0.67
1:I:160:LYS:NZ	1:I:164:GLU:OE2	2.25	0.67
1:A:93:LEU:CD1	1:F:173:VAL:HG13	2.24	0.67
1:I:100:THR:O	1:I:103:VAL:HB	1.93	0.67
1:R:160:LYS:NZ	1:R:164:GLU:OE2	2.25	0.67
1:Q:173:VAL:HG13	1:H:93:LEU:CD1	2.24	0.67
1:A:100:THR:O	1:A:103:VAL:HB	1.93	0.67
1:U:100:THR:O	1:U:103:VAL:HB	1.93	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:100:THR:O	1:Y:103:VAL:HB	1.93	0.67
1:A:107:VAL:HG11	1:E:21:LEU:HG	1.77	0.67
1:B:100:THR:O	1:B:103:VAL:HB	1.93	0.67
1:H:107:VAL:HG11	1:L:21:LEU:HG	1.77	0.67
1:Q:93:LEU:HD13	1:R:173:VAL:CG1	2.21	0.67
1:J:107:VAL:HG11	1:M:21:LEU:HG	1.77	0.67
1:P:100:THR:O	1:P:103:VAL:HB	1.93	0.67
1:P:107:VAL:HG11	1:U:21:LEU:HG	1.77	0.67
1:S:107:VAL:HG11	1:W:21:LEU:HG	1.77	0.67
1:Q:21:LEU:HG	1:I:107:VAL:HG11	1.77	0.67
1:N:107:VAL:HG11	1:S:21:LEU:HG	1.77	0.67
1:R:107:VAL:HG11	1:V:21:LEU:HG	1.77	0.67
1:V:107:VAL:HG11	1:Z:21:LEU:HG	1.77	0.67
1:Q:107:VAL:HG11	1:P:21:LEU:HG	1.77	0.67
1:C:107:VAL:HG11	1:G:21:LEU:HG	1.77	0.67
1:E:161:ARG:NE	1:I:24:ILE:CG1	2.40	0.67
1:F:107:VAL:HG11	1:J:21:LEU:HG	1.77	0.67
1:B:93:LEU:HD13	1:G:173:VAL:CG1	2.21	0.67
1:M:107:VAL:HG11	1:R:21:LEU:HG	1.77	0.67
1:R:93:LEU:HD13	1:W:173:VAL:CG1	2.21	0.66
1:D:107:VAL:HG11	1:H:21:LEU:HG	1.77	0.66
1:D:161:ARG:NE	1:H:24:ILE:CG1	2.40	0.66
1:K:93:LEU:HD13	1:O:173:VAL:CG1	2.21	0.66
1:Q:173:VAL:CG1	1:H:93:LEU:HD13	2.21	0.66
1:E:107:VAL:HG11	1:I:21:LEU:HG	1.77	0.66
1:L:107:VAL:HG11	1:O:21:LEU:HG	1.77	0.66
1:N:93:LEU:CD1	1:T:173:VAL:HG13	2.24	0.66
1:U:107:VAL:HG11	1:Y:21:LEU:HG	1.77	0.66
1:P:93:LEU:HD13	1:V:173:VAL:CG1	2.21	0.66
1:B:107:VAL:HG11	1:F:21:LEU:HG	1.77	0.66
1:G:107:VAL:HG11	1:K:21:LEU:HG	1.77	0.66
1:O:93:LEU:HD13	1:U:173:VAL:CG1	2.21	0.66
1:O:107:VAL:HG11	1:T:21:LEU:HG	1.77	0.66
1:T:107:VAL:HG11	1:X:21:LEU:HG	1.77	0.66
1:H:161:ARG:NE	1:L:24:ILE:CG1	2.40	0.66
1:K:107:VAL:HG11	1:N:21:LEU:HG	1.77	0.66
1:U:79:ALA:CB	1:U:88:LEU:HD23	2.26	0.66
1:I:79:ALA:CB	1:I:88:LEU:HD23	2.26	0.66
1:P:79:ALA:CB	1:P:88:LEU:HD23	2.26	0.66
1:T:62:LEU:HD11	1:T:120:ARG:HG2	1.78	0.66
1:T:79:ALA:CB	1:T:88:LEU:HD23	2.26	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:79:ALA:CB	1:Y:88:LEU:HD23	2.26	0.66
1:J:161:ARG:NE	1:M:24:ILE:CG1	2.41	0.66
1:M:79:ALA:CB	1:M:88:LEU:HD23	2.26	0.66
1:A:62:LEU:HD11	1:A:120:ARG:HG2	1.78	0.66
1:N:62:LEU:HD11	1:N:120:ARG:HG2	1.78	0.66
1:O:79:ALA:CB	1:O:88:LEU:HD23	2.26	0.66
1:V:79:ALA:CB	1:V:88:LEU:HD23	2.26	0.66
1:Y:62:LEU:HD11	1:Y:120:ARG:HG2	1.78	0.66
1:A:79:ALA:CB	1:A:88:LEU:HD23	2.26	0.65
1:B:161:ARG:NE	1:F:24:ILE:CG1	2.40	0.65
1:G:62:LEU:HD11	1:G:120:ARG:HG2	1.78	0.65
1:L:62:LEU:HD11	1:L:120:ARG:HG2	1.78	0.65
1:Z:79:ALA:CB	1:Z:88:LEU:HD23	2.26	0.65
1:B:79:ALA:CB	1:B:88:LEU:HD23	2.26	0.65
1:L:79:ALA:CB	1:L:88:LEU:HD23	2.26	0.65
1:R:79:ALA:CB	1:R:88:LEU:HD23	2.26	0.65
1:X:79:ALA:CB	1:X:88:LEU:HD23	2.26	0.65
1:C:93:LEU:CD1	1:H:173:VAL:HG13	2.24	0.65
1:D:79:ALA:HB1	1:D:88:LEU:HG	1.78	0.65
1:F:62:LEU:HD11	1:F:120:ARG:HG2	1.78	0.65
1:N:79:ALA:CB	1:N:88:LEU:HD23	2.26	0.65
1:N:161:ARG:NE	1:S:24:ILE:CG1	2.40	0.65
1:S:79:ALA:CB	1:S:88:LEU:HD23	2.26	0.65
1:U:93:LEU:HD13	1:Z:173:VAL:CG1	2.21	0.65
1:W:79:ALA:CB	1:W:88:LEU:HD23	2.26	0.65
1:Q:79:ALA:CB	1:Q:88:LEU:HD23	2.26	0.65
1:B:62:LEU:HD11	1:B:120:ARG:HG2	1.78	0.65
1:C:93:LEU:HD13	1:H:173:VAL:CG1	2.21	0.65
1:D:79:ALA:CB	1:D:88:LEU:HD23	2.26	0.65
1:J:62:LEU:HD11	1:J:120:ARG:HG2	1.78	0.65
1:C:79:ALA:CB	1:C:88:LEU:HD23	2.26	0.65
1:F:79:ALA:CB	1:F:88:LEU:HD23	2.26	0.65
1:G:93:LEU:HD13	1:L:173:VAL:CG1	2.21	0.65
1:J:93:LEU:HD13	1:N:173:VAL:CG1	2.21	0.65
1:P:62:LEU:HD11	1:P:120:ARG:HG2	1.78	0.65
1:T:161:ARG:NE	1:X:24:ILE:CG1	2.40	0.65
1:W:62:LEU:HD11	1:W:120:ARG:HG2	1.78	0.65
1:G:79:ALA:CB	1:G:88:LEU:HD23	2.26	0.65
1:H:79:ALA:HB1	1:H:88:LEU:HG	1.78	0.65
1:I:93:LEU:CD1	1:M:173:VAL:HG13	2.24	0.65
1:W:79:ALA:HB1	1:W:88:LEU:HG	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:79:ALA:HB1	1:Q:88:LEU:HG	1.78	0.65
1:C:62:LEU:HD11	1:C:120:ARG:HG2	1.78	0.65
1:F:79:ALA:HB1	1:F:88:LEU:HG	1.78	0.65
1:D:93:LEU:HD13	1:I:173:VAL:CG1	2.21	0.65
1:G:161:ARG:NE	1:K:24:ILE:CG1	2.40	0.65
1:K:79:ALA:HB1	1:K:88:LEU:HG	1.78	0.65
1:K:79:ALA:CB	1:K:88:LEU:HD23	2.26	0.65
1:N:79:ALA:HB1	1:N:88:LEU:HG	1.78	0.65
1:A:79:ALA:HB1	1:A:88:LEU:HG	1.78	0.65
1:B:79:ALA:HB1	1:B:88:LEU:HG	1.78	0.65
1:E:79:ALA:CB	1:E:88:LEU:HD23	2.26	0.65
1:P:79:ALA:HB1	1:P:88:LEU:HG	1.78	0.65
1:T:79:ALA:HB1	1:T:88:LEU:HG	1.78	0.65
1:V:62:LEU:HD11	1:V:120:ARG:HG2	1.78	0.65
1:H:79:ALA:CB	1:H:88:LEU:HD23	2.26	0.65
1:K:62:LEU:HD11	1:K:120:ARG:HG2	1.78	0.65
1:R:62:LEU:HD11	1:R:120:ARG:HG2	1.78	0.65
1:Z:62:LEU:HD11	1:Z:120:ARG:HG2	1.78	0.65
1:E:62:LEU:HD11	1:E:120:ARG:HG2	1.78	0.64
1:H:62:LEU:HD11	1:H:120:ARG:HG2	1.78	0.64
1:M:62:LEU:HD11	1:M:120:ARG:HG2	1.78	0.64
1:Y:79:ALA:HB1	1:Y:88:LEU:HG	1.78	0.64
1:Q:62:LEU:HD11	1:Q:120:ARG:HG2	1.78	0.64
1:S:62:LEU:HD11	1:S:120:ARG:HG2	1.78	0.64
1:U:62:LEU:HD11	1:U:120:ARG:HG2	1.78	0.64
1:I:79:ALA:HB1	1:I:88:LEU:HG	1.78	0.64
1:I:62:LEU:HD11	1:I:120:ARG:HG2	1.78	0.64
1:J:79:ALA:HB1	1:J:88:LEU:HG	1.78	0.64
1:X:79:ALA:HB1	1:X:88:LEU:HG	1.78	0.64
1:H:127:ARG:NH1	1:H:130:GLU:OE1	2.31	0.64
1:J:79:ALA:CB	1:J:88:LEU:HD23	2.26	0.64
1:J:127:ARG:NH1	1:J:130:GLU:OE1	2.31	0.64
1:O:79:ALA:HB1	1:O:88:LEU:HG	1.78	0.64
1:C:106:LEU:CD1	1:C:118:ALA:HB1	2.28	0.64
1:E:106:LEU:CD1	1:E:118:ALA:HB1	2.28	0.64
1:P:127:ARG:NH1	1:P:130:GLU:OE1	2.31	0.64
1:R:127:ARG:NH1	1:R:130:GLU:OE1	2.31	0.64
1:T:106:LEU:CD1	1:T:118:ALA:HB1	2.28	0.64
1:U:79:ALA:HB1	1:U:88:LEU:HG	1.78	0.64
1:W:127:ARG:NH1	1:W:130:GLU:OE1	2.31	0.64
1:A:106:LEU:CD1	1:A:118:ALA:HB1	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:161:ARG:NE	1:I:24:ILE:HG23	2.13	0.64
1:I:127:ARG:NH1	1:I:130:GLU:OE1	2.31	0.64
1:J:93:LEU:CD1	1:N:173:VAL:HG13	2.24	0.64
1:L:79:ALA:HB1	1:L:88:LEU:HG	1.78	0.64
1:M:127:ARG:NH1	1:M:130:GLU:OE1	2.31	0.64
1:N:161:ARG:NE	1:S:24:ILE:HG23	2.13	0.64
1:S:79:ALA:HB1	1:S:88:LEU:HG	1.78	0.64
1:S:127:ARG:NH1	1:S:130:GLU:OE1	2.31	0.64
1:T:161:ARG:NE	1:X:24:ILE:HG23	2.13	0.64
1:Z:127:ARG:NH1	1:Z:130:GLU:OE1	2.31	0.64
1:A:127:ARG:NH1	1:A:130:GLU:OE1	2.31	0.64
1:B:161:ARG:NE	1:F:24:ILE:HG23	2.13	0.64
1:G:79:ALA:HB1	1:G:88:LEU:HG	1.78	0.64
1:J:161:ARG:NE	1:M:24:ILE:HG23	2.13	0.64
1:M:79:ALA:HB1	1:M:88:LEU:HG	1.78	0.64
1:O:106:LEU:CD1	1:O:118:ALA:HB1	2.28	0.64
1:P:93:LEU:CD1	1:V:173:VAL:HG13	2.24	0.64
1:R:79:ALA:HB1	1:R:88:LEU:HG	1.78	0.64
1:V:106:LEU:CD1	1:V:118:ALA:HB1	2.28	0.64
1:X:106:LEU:CD1	1:X:118:ALA:HB1	2.28	0.64
1:D:62:LEU:HD11	1:D:120:ARG:HG2	1.78	0.64
1:E:127:ARG:NH1	1:E:130:GLU:OE1	2.31	0.64
1:L:106:LEU:CD1	1:L:118:ALA:HB1	2.28	0.64
1:O:62:LEU:HD11	1:O:120:ARG:HG2	1.78	0.64
1:R:106:LEU:CD1	1:R:118:ALA:HB1	2.28	0.64
1:R:161:ARG:NE	1:V:24:ILE:HG23	2.13	0.64
1:V:79:ALA:HB1	1:V:88:LEU:HG	1.78	0.64
1:Y:106:LEU:CD1	1:Y:118:ALA:HB1	2.28	0.64
1:Q:161:ARG:NE	1:P:24:ILE:HG23	2.13	0.64
1:S:161:ARG:NE	1:W:24:ILE:HG23	2.13	0.64
1:U:161:ARG:NE	1:Y:24:ILE:CG1	2.40	0.64
1:X:62:LEU:HD11	1:X:120:ARG:HG2	1.78	0.64
1:G:106:LEU:CD1	1:G:118:ALA:HB1	2.28	0.63
1:G:161:ARG:NE	1:K:24:ILE:HG23	2.13	0.63
1:H:106:LEU:CD1	1:H:118:ALA:HB1	2.28	0.63
1:I:106:LEU:CD1	1:I:118:ALA:HB1	2.28	0.63
1:X:127:ARG:NH1	1:X:130:GLU:OE1	2.31	0.63
1:Z:106:LEU:CD1	1:Z:118:ALA:HB1	2.28	0.63
1:B:106:LEU:CD1	1:B:118:ALA:HB1	2.28	0.63
1:C:127:ARG:NH1	1:C:130:GLU:OE1	2.31	0.63
1:H:161:ARG:NE	1:L:24:ILE:HG23	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:127:ARG:NH1	1:O:130:GLU:OE1	2.31	0.63
1:P:160:LYS:O	1:P:164:GLU:HG3	1.99	0.63
1:U:106:LEU:CD1	1:U:118:ALA:HB1	2.28	0.63
1:Y:127:ARG:NH1	1:Y:130:GLU:OE1	2.31	0.63
1:B:127:ARG:NH1	1:B:130:GLU:OE1	2.31	0.63
1:C:161:ARG:NE	1:G:24:ILE:HG23	2.13	0.63
1:G:127:ARG:NH1	1:G:130:GLU:OE1	2.31	0.63
1:G:160:LYS:O	1:G:164:GLU:HG3	1.99	0.63
1:K:127:ARG:NH1	1:K:130:GLU:OE1	2.31	0.63
1:Z:79:ALA:HB1	1:Z:88:LEU:HG	1.78	0.63
1:Q:24:ILE:CG1	1:I:161:ARG:NE	2.40	0.63
1:C:79:ALA:HB1	1:C:88:LEU:HG	1.78	0.63
1:D:106:LEU:CD1	1:D:118:ALA:HB1	2.28	0.63
1:F:161:ARG:NE	1:J:24:ILE:HG23	2.13	0.63
1:H:160:LYS:O	1:H:164:GLU:HG3	1.99	0.63
1:J:106:LEU:CD1	1:J:118:ALA:HB1	2.28	0.63
1:L:161:ARG:NE	1:O:24:ILE:CG1	2.40	0.63
1:V:161:ARG:NE	1:Z:24:ILE:HG23	2.13	0.63
1:W:106:LEU:CD1	1:W:118:ALA:HB1	2.28	0.63
1:D:127:ARG:NH1	1:D:130:GLU:OE1	2.31	0.63
1:F:106:LEU:CD1	1:F:118:ALA:HB1	2.28	0.63
1:M:106:LEU:CD1	1:M:118:ALA:HB1	2.28	0.63
1:T:127:ARG:NH1	1:T:130:GLU:OE1	2.31	0.63
1:Q:106:LEU:CD1	1:Q:118:ALA:HB1	2.28	0.63
1:E:79:ALA:HB1	1:E:88:LEU:HG	1.78	0.63
1:E:160:LYS:O	1:E:164:GLU:HG3	1.99	0.63
1:L:127:ARG:NH1	1:L:130:GLU:OE1	2.31	0.63
1:N:127:ARG:NH1	1:N:130:GLU:OE1	2.31	0.63
1:O:161:ARG:NE	1:T:24:ILE:HG23	2.13	0.63
1:S:106:LEU:CD1	1:S:118:ALA:HB1	2.28	0.63
1:U:161:ARG:NE	1:Y:24:ILE:HG23	2.13	0.63
1:V:127:ARG:NH1	1:V:130:GLU:OE1	2.31	0.63
1:Z:160:LYS:O	1:Z:164:GLU:HG3	1.99	0.63
1:A:160:LYS:O	1:A:164:GLU:HG3	1.99	0.63
1:D:93:LEU:CD1	1:I:173:VAL:HG13	2.24	0.63
1:K:106:LEU:CD1	1:K:118:ALA:HB1	2.28	0.63
1:K:161:ARG:NE	1:N:24:ILE:HG23	2.13	0.63
1:M:161:ARG:NE	1:R:24:ILE:HG23	2.13	0.63
1:N:106:LEU:CD1	1:N:118:ALA:HB1	2.28	0.63
1:X:160:LYS:O	1:X:164:GLU:HG3	1.99	0.63
1:Q:24:ILE:HG23	1:I:161:ARG:NE	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:ARG:NE	1:E:24:ILE:HG23	2.13	0.63
1:L:161:ARG:NE	1:O:24:ILE:HG23	2.13	0.63
1:Q:127:ARG:NH1	1:Q:130:GLU:OE1	2.31	0.63
1:F:160:LYS:O	1:F:164:GLU:HG3	1.99	0.63
1:O:160:LYS:O	1:O:164:GLU:HG3	1.99	0.63
1:U:160:LYS:O	1:U:164:GLU:HG3	1.99	0.63
1:W:160:LYS:O	1:W:164:GLU:HG3	1.99	0.63
1:F:127:ARG:NH1	1:F:130:GLU:OE1	2.31	0.62
1:P:106:LEU:CD1	1:P:118:ALA:HB1	2.28	0.62
1:P:161:ARG:NE	1:U:24:ILE:HG23	2.13	0.62
1:D:160:LYS:O	1:D:164:GLU:HG3	1.99	0.62
1:J:160:LYS:O	1:J:164:GLU:HG3	1.99	0.62
1:S:160:LYS:O	1:S:164:GLU:HG3	1.99	0.62
1:C:160:LYS:O	1:C:164:GLU:HG3	1.99	0.62
1:D:161:ARG:NE	1:H:24:ILE:HG23	2.13	0.62
1:K:160:LYS:O	1:K:164:GLU:HG3	1.99	0.62
1:U:127:ARG:NH1	1:U:130:GLU:OE1	2.31	0.62
1:K:161:ARG:NE	1:N:24:ILE:CG1	2.40	0.62
1:T:160:LYS:O	1:T:164:GLU:HG3	1.99	0.62
1:Q:161:ARG:NE	1:P:24:ILE:CG1	2.40	0.62
1:R:160:LYS:O	1:R:164:GLU:HG3	1.99	0.62
1:Q:160:LYS:O	1:Q:164:GLU:HG3	1.99	0.62
1:K:93:LEU:CD1	1:O:173:VAL:HG13	2.24	0.62
1:I:160:LYS:O	1:I:164:GLU:HG3	1.99	0.62
1:P:153:GLU:OE1	1:P:204:ARG:NH1	2.33	0.62
1:G:153:GLU:OE1	1:G:204:ARG:NH1	2.33	0.62
1:H:153:GLU:OE1	1:H:204:ARG:NH1	2.33	0.62
1:L:160:LYS:O	1:L:164:GLU:HG3	1.99	0.62
1:O:153:GLU:OE1	1:O:204:ARG:NH1	2.33	0.62
1:Y:160:LYS:O	1:Y:164:GLU:HG3	1.99	0.62
1:Z:153:GLU:OE1	1:Z:204:ARG:NH1	2.33	0.62
1:B:160:LYS:O	1:B:164:GLU:HG3	1.99	0.62
1:M:160:LYS:O	1:M:164:GLU:HG3	1.99	0.61
1:Y:153:GLU:OE1	1:Y:204:ARG:NH1	2.33	0.61
1:L:153:GLU:OE1	1:L:204:ARG:NH1	2.33	0.61
1:U:153:GLU:OE1	1:U:204:ARG:NH1	2.33	0.61
1:V:160:LYS:O	1:V:164:GLU:HG3	1.99	0.61
1:R:153:GLU:OE1	1:R:204:ARG:NH1	2.33	0.61
1:C:153:GLU:OE1	1:C:204:ARG:NH1	2.33	0.61
1:D:161:ARG:HE	1:H:24:ILE:HG23	1.66	0.61
1:N:160:LYS:O	1:N:164:GLU:HG3	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:153:GLU:OE1	1:S:204:ARG:NH1	2.33	0.61
1:B:153:GLU:OE1	1:B:204:ARG:NH1	2.33	0.61
1:H:161:ARG:HE	1:L:24:ILE:HG23	1.66	0.61
1:J:153:GLU:OE1	1:J:204:ARG:NH1	2.33	0.61
1:I:153:GLU:OE1	1:I:204:ARG:NH1	2.33	0.61
1:O:161:ARG:HE	1:T:24:ILE:HG23	1.66	0.61
1:Q:133:LEU:CD1	1:Q:192:ILE:HD11	2.31	0.61
1:A:153:GLU:OE1	1:A:204:ARG:NH1	2.33	0.61
1:F:153:GLU:OE1	1:F:204:ARG:NH1	2.33	0.61
1:T:161:ARG:HE	1:X:24:ILE:HG23	1.66	0.61
1:V:153:GLU:OE1	1:V:204:ARG:NH1	2.33	0.61
1:Q:74:LEU:HD13	1:Q:77:ARG:NH2	2.16	0.61
1:Q:153:GLU:OE1	1:Q:204:ARG:NH1	2.33	0.61
1:A:161:ARG:HE	1:E:24:ILE:HG23	1.66	0.61
1:E:93:LEU:CD1	1:J:173:VAL:HG13	2.24	0.61
1:E:133:LEU:CD1	1:E:192:ILE:HD11	2.31	0.61
1:I:133:LEU:CD1	1:I:192:ILE:HD11	2.31	0.61
1:L:161:ARG:HE	1:O:24:ILE:HG23	1.66	0.61
1:N:74:LEU:HD13	1:N:77:ARG:NH2	2.16	0.61
1:R:93:LEU:CD1	1:W:173:VAL:HG13	2.24	0.61
1:S:133:LEU:CD1	1:S:192:ILE:HD11	2.31	0.61
1:T:74:LEU:HD13	1:T:77:ARG:NH2	2.16	0.61
1:V:74:LEU:HD13	1:V:77:ARG:NH2	2.16	0.61
1:Z:74:LEU:HD13	1:Z:77:ARG:NH2	2.16	0.61
1:E:153:GLU:OE1	1:E:204:ARG:NH1	2.33	0.61
1:F:74:LEU:HD13	1:F:77:ARG:NH2	2.16	0.61
1:J:74:LEU:HD13	1:J:77:ARG:NH2	2.16	0.61
1:K:74:LEU:HD13	1:K:77:ARG:NH2	2.16	0.61
1:N:153:GLU:OE1	1:N:204:ARG:NH1	2.33	0.61
1:P:74:LEU:HD13	1:P:77:ARG:NH2	2.16	0.61
1:R:74:LEU:HD13	1:R:77:ARG:NH2	2.16	0.61
1:R:133:LEU:CD1	1:R:192:ILE:HD11	2.31	0.61
1:S:93:LEU:HD13	1:X:173:VAL:HG12	1.82	0.61
1:U:161:ARG:HE	1:Y:24:ILE:HG23	1.66	0.61
1:B:74:LEU:HD13	1:B:77:ARG:NH2	2.16	0.61
1:M:74:LEU:HD13	1:M:77:ARG:NH2	2.16	0.61
1:M:133:LEU:CD1	1:M:192:ILE:HD11	2.31	0.61
1:P:133:LEU:CD1	1:P:192:ILE:HD11	2.31	0.61
1:P:161:ARG:NE	1:U:24:ILE:CG1	2.40	0.61
1:S:74:LEU:HD13	1:S:77:ARG:NH2	2.16	0.61
1:X:153:GLU:OE1	1:X:204:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:93:LEU:HD13	1:F:173:VAL:HG12	1.82	0.60
1:A:133:LEU:CD1	1:A:192:ILE:HD11	2.31	0.60
1:D:153:GLU:OE1	1:D:204:ARG:NH1	2.33	0.60
1:G:74:LEU:HD13	1:G:77:ARG:NH2	2.16	0.60
1:H:74:LEU:HD13	1:H:77:ARG:NH2	2.16	0.60
1:J:133:LEU:CD1	1:J:192:ILE:HD11	2.31	0.60
1:K:153:GLU:OE1	1:K:204:ARG:NH1	2.33	0.60
1:L:133:LEU:CD1	1:L:192:ILE:HD11	2.31	0.60
1:M:153:GLU:OE1	1:M:204:ARG:NH1	2.33	0.60
1:N:161:ARG:HE	1:S:24:ILE:HG23	1.66	0.60
1:W:153:GLU:OE1	1:W:204:ARG:NH1	2.33	0.60
1:X:133:LEU:CD1	1:X:192:ILE:HD11	2.31	0.60
1:Z:133:LEU:CD1	1:Z:192:ILE:HD11	2.31	0.60
1:E:161:ARG:HE	1:I:24:ILE:HG23	1.66	0.60
1:F:133:LEU:CD1	1:F:192:ILE:HD11	2.31	0.60
1:L:93:LEU:CD1	1:P:173:VAL:HG13	2.24	0.60
1:M:161:ARG:NE	1:R:24:ILE:CG1	2.40	0.60
1:V:133:LEU:CD1	1:V:192:ILE:HD11	2.31	0.60
1:C:74:LEU:HD13	1:C:77:ARG:NH2	2.16	0.60
1:I:74:LEU:HD13	1:I:77:ARG:NH2	2.16	0.60
1:M:161:ARG:HE	1:R:24:ILE:HG23	1.66	0.60
1:U:74:LEU:HD13	1:U:77:ARG:NH2	2.16	0.60
1:Y:74:LEU:HD13	1:Y:77:ARG:NH2	2.16	0.60
1:A:107:VAL:CB	1:E:21:LEU:HD21	2.31	0.60
1:B:161:ARG:HE	1:F:24:ILE:HG23	1.66	0.60
1:D:133:LEU:CD1	1:D:192:ILE:HD11	2.31	0.60
1:E:93:LEU:HD13	1:J:173:VAL:HG12	1.82	0.60
1:F:107:VAL:CB	1:J:21:LEU:HD21	2.31	0.60
1:F:161:ARG:HE	1:J:24:ILE:HG23	1.66	0.60
1:H:133:LEU:CD1	1:H:192:ILE:HD11	2.31	0.60
1:P:161:ARG:HE	1:U:24:ILE:HG23	1.66	0.60
1:A:74:LEU:HD13	1:A:77:ARG:NH2	2.16	0.60
1:B:107:VAL:CB	1:F:21:LEU:HD21	2.31	0.60
1:C:161:ARG:HE	1:G:24:ILE:HG23	1.66	0.60
1:H:200:GLU:OE2	1:H:204:ARG:NE	2.32	0.60
1:L:74:LEU:HD13	1:L:77:ARG:NH2	2.16	0.60
1:M:93:LEU:HD13	1:S:173:VAL:HG12	1.82	0.60
1:S:161:ARG:HE	1:W:24:ILE:HG23	1.66	0.60
1:T:133:LEU:CD1	1:T:192:ILE:HD11	2.31	0.60
1:U:133:LEU:CD1	1:U:192:ILE:HD11	2.31	0.60
1:W:74:LEU:HD13	1:W:77:ARG:NH2	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:74:LEU:HD13	1:X:77:ARG:NH2	2.16	0.60
1:Y:133:LEU:CD1	1:Y:192:ILE:HD11	2.31	0.60
1:Q:24:ILE:HG23	1:I:161:ARG:HE	1.66	0.60
1:Q:107:VAL:CB	1:P:21:LEU:HD21	2.31	0.60
1:Q:161:ARG:HE	1:P:24:ILE:HG23	1.66	0.60
1:K:107:VAL:CB	1:N:21:LEU:HD21	2.31	0.60
1:B:133:LEU:CD1	1:B:192:ILE:HD11	2.31	0.60
1:D:107:VAL:CB	1:H:21:LEU:HD21	2.31	0.60
1:K:133:LEU:CD1	1:K:192:ILE:HD11	2.31	0.60
1:V:107:VAL:CB	1:Z:21:LEU:HD21	2.31	0.60
1:E:74:LEU:HD13	1:E:77:ARG:NH2	2.16	0.60
1:G:133:LEU:CD1	1:G:192:ILE:HD11	2.31	0.60
1:H:107:VAL:CB	1:L:21:LEU:HD21	2.31	0.60
1:P:107:VAL:CB	1:U:21:LEU:HD21	2.31	0.60
1:T:153:GLU:OE1	1:T:204:ARG:NH1	2.33	0.60
1:V:161:ARG:HE	1:Z:24:ILE:HG23	1.66	0.60
1:C:133:LEU:CD1	1:C:192:ILE:HD11	2.31	0.60
1:G:161:ARG:HE	1:K:24:ILE:HG23	1.66	0.60
1:O:107:VAL:CB	1:T:21:LEU:HD21	2.31	0.60
1:R:161:ARG:HE	1:V:24:ILE:HG23	1.66	0.60
1:D:74:LEU:HD13	1:D:77:ARG:NH2	2.16	0.60
1:N:133:LEU:CD1	1:N:192:ILE:HD11	2.31	0.60
1:P:200:GLU:OE2	1:P:204:ARG:NE	2.32	0.60
1:W:133:LEU:CD1	1:W:192:ILE:HD11	2.31	0.60
1:F:93:LEU:HD13	1:K:173:VAL:HG12	1.82	0.59
1:G:107:VAL:CB	1:K:21:LEU:HD21	2.31	0.59
1:K:161:ARG:HD3	1:N:24:ILE:HG12	1.84	0.59
1:O:133:LEU:CD1	1:O:192:ILE:HD11	2.31	0.59
1:O:161:ARG:HD3	1:T:24:ILE:HG12	1.84	0.59
1:R:93:LEU:HD13	1:W:173:VAL:HG12	1.82	0.59
1:T:93:LEU:HD13	1:Y:173:VAL:HG12	1.82	0.59
1:T:161:ARG:HD3	1:X:24:ILE:HG12	1.84	0.59
1:D:200:GLU:OE2	1:D:204:ARG:NE	2.32	0.59
1:F:161:ARG:HD3	1:J:24:ILE:HG12	1.84	0.59
1:K:161:ARG:HE	1:N:24:ILE:HG23	1.66	0.59
1:N:93:LEU:HD13	1:T:173:VAL:HG12	1.82	0.59
1:V:200:GLU:OE2	1:V:204:ARG:NE	2.32	0.59
1:O:74:LEU:HD13	1:O:77:ARG:NH2	2.16	0.59
1:R:107:VAL:CB	1:V:21:LEU:HD21	2.31	0.59
1:U:107:VAL:CB	1:Y:21:LEU:HD21	2.31	0.59
1:Q:21:LEU:HD21	1:I:107:VAL:CB	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:161:ARG:HD3	1:E:24:ILE:HG12	1.84	0.59
1:J:93:LEU:HD13	1:N:173:VAL:HG12	1.82	0.59
1:L:200:GLU:OE2	1:L:204:ARG:NE	2.32	0.59
1:N:107:VAL:CB	1:S:21:LEU:HD21	2.31	0.59
1:S:107:VAL:CB	1:W:21:LEU:HD21	2.31	0.59
1:Q:200:GLU:OE2	1:Q:204:ARG:NE	2.32	0.59
1:C:96:VAL:CG1	1:H:173:VAL:HG23	2.33	0.59
1:C:200:GLU:OE2	1:C:204:ARG:NE	2.32	0.59
1:T:107:VAL:CB	1:X:21:LEU:HD21	2.31	0.59
1:J:107:VAL:CB	1:M:21:LEU:HD21	2.31	0.59
1:J:161:ARG:HE	1:M:24:ILE:HG23	1.66	0.59
1:R:200:GLU:OE2	1:R:204:ARG:NE	2.32	0.59
1:C:107:VAL:CB	1:G:21:LEU:HD21	2.31	0.59
1:L:96:VAL:CG1	1:P:173:VAL:HG23	2.33	0.59
1:L:107:VAL:CB	1:O:21:LEU:HD21	2.31	0.59
1:M:107:VAL:CB	1:R:21:LEU:HD21	2.31	0.59
1:F:93:LEU:CD1	1:K:173:VAL:HG13	2.24	0.59
1:O:161:ARG:NE	1:T:24:ILE:CG1	2.40	0.59
1:D:93:LEU:HD13	1:I:173:VAL:HG12	1.82	0.59
1:E:107:VAL:CB	1:I:21:LEU:HD21	2.31	0.59
1:N:96:VAL:CG1	1:T:173:VAL:HG23	2.33	0.59
1:S:93:LEU:CD1	1:X:173:VAL:HG13	2.24	0.59
1:U:200:GLU:OE2	1:U:204:ARG:NE	2.32	0.59
1:B:161:ARG:HD3	1:F:24:ILE:HG12	1.84	0.58
1:G:161:ARG:HD3	1:K:24:ILE:HG12	1.84	0.58
1:U:96:VAL:CG1	1:Z:173:VAL:HG23	2.33	0.58
1:B:93:LEU:HD13	1:G:173:VAL:HG12	1.82	0.58
1:F:96:VAL:CG1	1:K:173:VAL:HG23	2.33	0.58
1:U:107:VAL:HG11	1:Y:21:LEU:CG	2.34	0.58
1:Z:200:GLU:OE2	1:Z:204:ARG:NE	2.32	0.58
1:C:107:VAL:HG11	1:G:21:LEU:CG	2.34	0.58
1:E:107:VAL:HG11	1:I:21:LEU:CG	2.34	0.58
1:I:93:LEU:HD13	1:M:173:VAL:HG12	1.82	0.58
1:L:107:VAL:HG11	1:O:21:LEU:CG	2.34	0.58
1:M:107:VAL:HG11	1:R:21:LEU:CG	2.34	0.58
1:T:107:VAL:HG11	1:X:21:LEU:CG	2.34	0.58
1:U:79:ALA:HB1	1:U:88:LEU:CG	2.34	0.58
1:W:200:GLU:OE2	1:W:204:ARG:NE	2.32	0.58
1:F:107:VAL:HG11	1:J:21:LEU:CG	2.34	0.58
1:N:107:VAL:HG11	1:S:21:LEU:CG	2.34	0.58
1:Y:79:ALA:HB1	1:Y:88:LEU:CG	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:93:LEU:HD13	1:R:173:VAL:HG12	1.82	0.58
1:A:96:VAL:CB	1:F:173:VAL:HG22	2.34	0.58
1:B:79:ALA:HB1	1:B:88:LEU:CG	2.34	0.58
1:K:107:VAL:HG11	1:N:21:LEU:CG	2.34	0.58
1:Q:93:LEU:CD1	1:R:173:VAL:HG13	2.24	0.58
1:B:107:VAL:HG11	1:F:21:LEU:CG	2.34	0.58
1:J:107:VAL:HG11	1:M:21:LEU:CG	2.34	0.58
1:K:93:LEU:HD13	1:O:173:VAL:HG12	1.82	0.58
1:R:107:VAL:HG11	1:V:21:LEU:CG	2.34	0.58
1:T:79:ALA:HB1	1:T:88:LEU:CG	2.34	0.58
1:Q:21:LEU:CG	1:I:107:VAL:HG11	2.34	0.58
1:Q:96:VAL:CB	1:R:173:VAL:HG22	2.34	0.58
1:A:79:ALA:HB1	1:A:88:LEU:CG	2.34	0.58
1:E:96:VAL:CB	1:J:173:VAL:HG22	2.34	0.58
1:G:107:VAL:HG11	1:K:21:LEU:CG	2.34	0.58
1:H:79:ALA:HB1	1:H:88:LEU:CG	2.34	0.58
1:I:79:ALA:CB	1:I:88:LEU:CD2	2.82	0.58
1:J:96:VAL:CG1	1:N:173:VAL:HG23	2.33	0.58
1:K:96:VAL:CB	1:O:173:VAL:HG22	2.34	0.58
1:L:96:VAL:CB	1:P:173:VAL:HG22	2.34	0.58
1:M:161:ARG:HD3	1:R:24:ILE:HG12	1.84	0.58
1:N:96:VAL:CB	1:T:173:VAL:HG22	2.34	0.58
1:O:107:VAL:HG11	1:T:21:LEU:CG	2.34	0.58
1:R:161:ARG:HD3	1:V:24:ILE:HG12	1.84	0.58
1:A:161:ARG:NE	1:E:24:ILE:CG1	2.40	0.57
1:F:79:ALA:HB1	1:F:88:LEU:CG	2.34	0.57
1:H:107:VAL:HG11	1:L:21:LEU:CG	2.34	0.57
1:I:96:VAL:CB	1:M:173:VAL:HG22	2.34	0.57
1:I:200:GLU:OE2	1:I:204:ARG:NE	2.32	0.57
1:J:96:VAL:HG12	1:N:173:VAL:HG23	1.86	0.57
1:M:79:ALA:CB	1:M:88:LEU:CD2	2.82	0.57
1:S:96:VAL:CG1	1:X:173:VAL:HG23	2.33	0.57
1:Z:79:ALA:HB1	1:Z:88:LEU:CG	2.34	0.57
1:A:96:VAL:CG1	1:F:173:VAL:HG23	2.33	0.57
1:A:107:VAL:HG11	1:E:21:LEU:CG	2.34	0.57
1:B:96:VAL:CB	1:G:173:VAL:HG22	2.34	0.57
1:C:96:VAL:CB	1:H:173:VAL:HG22	2.34	0.57
1:D:79:ALA:CB	1:D:88:LEU:CD2	2.82	0.57
1:E:79:ALA:HB1	1:E:88:LEU:CG	2.34	0.57
1:I:96:VAL:CG1	1:M:173:VAL:HG23	2.33	0.57
1:M:96:VAL:HG12	1:S:173:VAL:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:79:ALA:CB	1:P:88:LEU:CD2	2.82	0.57
1:P:107:VAL:HG11	1:U:21:LEU:CG	2.34	0.57
1:S:79:ALA:CB	1:S:88:LEU:CD2	2.82	0.57
1:S:107:VAL:HG11	1:W:21:LEU:CG	2.34	0.57
1:V:79:ALA:CB	1:V:88:LEU:CD2	2.82	0.57
1:D:79:ALA:HB1	1:D:88:LEU:CG	2.34	0.57
1:M:200:GLU:OE2	1:M:204:ARG:NE	2.32	0.57
1:O:79:ALA:HB1	1:O:88:LEU:CG	2.34	0.57
1:Q:24:ILE:HG12	1:I:161:ARG:HD3	1.84	0.57
1:Q:173:VAL:HG22	1:H:96:VAL:CB	2.34	0.57
1:G:79:ALA:HB1	1:G:88:LEU:CG	2.34	0.57
1:G:200:GLU:OE2	1:G:204:ARG:NE	2.32	0.57
1:I:79:ALA:HB1	1:I:88:LEU:CG	2.34	0.57
1:K:79:ALA:HB1	1:K:88:LEU:CG	2.34	0.57
1:O:93:LEU:HD13	1:U:173:VAL:HG12	1.82	0.57
1:O:96:VAL:CB	1:U:173:VAL:HG22	2.34	0.57
1:P:79:ALA:HB1	1:P:88:LEU:CG	2.34	0.57
1:S:96:VAL:HG12	1:X:173:VAL:HG23	1.86	0.57
1:S:96:VAL:CB	1:X:173:VAL:HG22	2.34	0.57
1:U:93:LEU:HD13	1:Z:173:VAL:HG12	1.82	0.57
1:X:79:ALA:HB1	1:X:88:LEU:CG	2.34	0.57
1:B:200:GLU:OE2	1:B:204:ARG:NE	2.32	0.57
1:H:161:ARG:HD3	1:L:24:ILE:HG12	1.84	0.57
1:J:96:VAL:CB	1:N:173:VAL:HG22	2.34	0.57
1:M:96:VAL:CB	1:S:173:VAL:HG22	2.34	0.57
1:R:96:VAL:CB	1:W:173:VAL:HG22	2.34	0.57
1:V:107:VAL:HG11	1:Z:21:LEU:CG	2.34	0.57
1:D:161:ARG:HD3	1:H:24:ILE:HG12	1.84	0.57
1:E:161:ARG:HD3	1:I:24:ILE:HG12	1.84	0.57
1:F:79:ALA:CB	1:F:88:LEU:CD2	2.82	0.57
1:L:79:ALA:CB	1:L:88:LEU:CD2	2.82	0.57
1:P:93:LEU:HD13	1:V:173:VAL:HG12	1.82	0.57
1:C:79:ALA:HB1	1:C:88:LEU:CG	2.34	0.57
1:C:79:ALA:CB	1:C:88:LEU:CD2	2.82	0.57
1:D:96:VAL:HG12	1:I:173:VAL:HG23	1.86	0.57
1:E:79:ALA:CB	1:E:88:LEU:CD2	2.82	0.57
1:F:96:VAL:HG12	1:K:173:VAL:HG23	1.86	0.57
1:F:161:ARG:NE	1:J:24:ILE:CG1	2.40	0.57
1:G:93:LEU:HD13	1:L:173:VAL:HG12	1.82	0.57
1:M:79:ALA:HB1	1:M:88:LEU:CG	2.34	0.57
1:O:200:GLU:OE2	1:O:204:ARG:NE	2.32	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:96:VAL:CB	1:V:173:VAL:HG22	2.34	0.57
1:U:132:LEU:HD13	1:U:147:ARG:HG3	1.87	0.57
1:Y:132:LEU:HD13	1:Y:147:ARG:HG3	1.87	0.57
1:C:93:LEU:HD13	1:H:173:VAL:HG12	1.82	0.57
1:H:79:ALA:CB	1:H:88:LEU:CD2	2.82	0.57
1:U:96:VAL:CB	1:Z:173:VAL:HG22	2.34	0.57
1:V:79:ALA:HB1	1:V:88:LEU:CG	2.34	0.57
1:X:79:ALA:CB	1:X:88:LEU:CD2	2.82	0.57
1:J:79:ALA:HB1	1:J:88:LEU:CG	2.34	0.57
1:N:132:LEU:HD13	1:N:147:ARG:HG3	1.87	0.57
1:P:132:LEU:HD13	1:P:147:ARG:HG3	1.87	0.57
1:S:161:ARG:HD3	1:W:24:ILE:HG12	1.84	0.57
1:T:96:VAL:CB	1:Y:173:VAL:HG22	2.34	0.57
1:Q:107:VAL:HG11	1:P:21:LEU:CG	2.34	0.57
1:B:132:LEU:HD13	1:B:147:ARG:HG3	1.87	0.57
1:C:161:ARG:HD3	1:G:24:ILE:HG12	1.84	0.57
1:G:96:VAL:CG1	1:L:173:VAL:HG23	2.33	0.57
1:G:132:LEU:HD13	1:G:147:ARG:HG3	1.87	0.57
1:K:132:LEU:HD13	1:K:147:ARG:HG3	1.87	0.57
1:L:79:ALA:HB1	1:L:88:LEU:CG	2.34	0.57
1:O:96:VAL:CG1	1:U:173:VAL:HG23	2.33	0.57
1:Y:79:ALA:CB	1:Y:88:LEU:CD2	2.82	0.57
1:D:96:VAL:CB	1:I:173:VAL:HG22	2.34	0.56
1:I:96:VAL:HG12	1:M:173:VAL:HG23	1.86	0.56
1:K:79:ALA:CB	1:K:88:LEU:CD2	2.82	0.56
1:N:79:ALA:HB1	1:N:88:LEU:CG	2.34	0.56
1:N:136:ALA:HB1	1:N:145:LEU:CD2	2.35	0.56
1:T:96:VAL:HG12	1:Y:173:VAL:HG23	1.86	0.56
1:Q:79:ALA:HB1	1:Q:88:LEU:CG	2.34	0.56
1:Q:161:ARG:HD3	1:P:24:ILE:HG12	1.84	0.56
1:A:132:LEU:HD13	1:A:147:ARG:HG3	1.87	0.56
1:D:136:ALA:HB1	1:D:145:LEU:CD2	2.35	0.56
1:E:96:VAL:HG12	1:J:173:VAL:HG23	1.86	0.56
1:F:96:VAL:CB	1:K:173:VAL:HG22	2.34	0.56
1:G:93:LEU:CD1	1:L:173:VAL:HG13	2.24	0.56
1:G:96:VAL:CB	1:L:173:VAL:HG22	2.34	0.56
1:H:132:LEU:HD13	1:H:147:ARG:HG3	1.87	0.56
1:J:136:ALA:HB1	1:J:145:LEU:CD2	2.35	0.56
1:P:161:ARG:HD3	1:U:24:ILE:HG12	1.84	0.56
1:R:96:VAL:CG1	1:W:173:VAL:HG23	2.33	0.56
1:R:96:VAL:HG12	1:W:173:VAL:HG23	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:161:ARG:HD3	1:Z:24:ILE:HG12	1.84	0.56
1:Y:200:GLU:OE2	1:Y:204:ARG:NE	2.32	0.56
1:Q:96:VAL:HG12	1:R:173:VAL:HG23	1.86	0.56
1:A:136:ALA:HB1	1:A:145:LEU:CD2	2.35	0.56
1:C:132:LEU:HD13	1:C:147:ARG:HG3	1.87	0.56
1:D:107:VAL:HG11	1:H:21:LEU:CG	2.34	0.56
1:D:132:LEU:HD13	1:D:147:ARG:HG3	1.87	0.56
1:E:132:LEU:HD13	1:E:147:ARG:HG3	1.87	0.56
1:E:200:GLU:OE2	1:E:204:ARG:NE	2.32	0.56
1:F:132:LEU:HD13	1:F:147:ARG:HG3	1.87	0.56
1:I:136:ALA:HB1	1:I:145:LEU:CD2	2.35	0.56
1:N:96:VAL:HG12	1:T:173:VAL:HG23	1.86	0.56
1:O:79:ALA:CB	1:O:88:LEU:CD2	2.82	0.56
1:P:136:ALA:HB1	1:P:145:LEU:CD2	2.35	0.56
1:S:79:ALA:HB1	1:S:88:LEU:CG	2.34	0.56
1:T:93:LEU:CD1	1:Y:173:VAL:HG13	2.24	0.56
1:W:79:ALA:HB1	1:W:88:LEU:CG	2.34	0.56
1:W:136:ALA:HB1	1:W:145:LEU:CD2	2.35	0.56
1:Q:79:ALA:CB	1:Q:88:LEU:CD2	2.82	0.56
1:Q:173:VAL:HG12	1:H:93:LEU:HD13	1.82	0.56
1:R:79:ALA:HB1	1:R:88:LEU:CG	2.34	0.56
1:R:132:LEU:HD13	1:R:147:ARG:HG3	1.87	0.56
1:R:136:ALA:HB1	1:R:145:LEU:CD2	2.35	0.56
1:S:132:LEU:HD13	1:S:147:ARG:HG3	1.87	0.56
1:Q:173:VAL:HG23	1:H:96:VAL:CG1	2.33	0.56
1:E:136:ALA:HB1	1:E:145:LEU:CD2	2.35	0.56
1:G:136:ALA:HB1	1:G:145:LEU:CD2	2.35	0.56
1:J:79:ALA:CB	1:J:88:LEU:CD2	2.82	0.56
1:K:200:GLU:OE2	1:K:204:ARG:NE	2.32	0.56
1:L:132:LEU:HD13	1:L:147:ARG:HG3	1.87	0.56
1:O:132:LEU:HD13	1:O:147:ARG:HG3	1.87	0.56
1:Z:136:ALA:HB1	1:Z:145:LEU:CD2	2.35	0.56
1:B:136:ALA:HB1	1:B:145:LEU:CD2	2.35	0.56
1:J:161:ARG:HD3	1:M:24:ILE:HG12	1.84	0.56
1:L:136:ALA:HB1	1:L:145:LEU:CD2	2.35	0.56
1:X:136:ALA:HB1	1:X:145:LEU:CD2	2.35	0.56
1:K:136:ALA:HB1	1:K:145:LEU:CD2	2.35	0.56
1:S:108:LEU:O	1:S:111:VAL:HG12	2.06	0.56
1:S:136:ALA:HB1	1:S:145:LEU:CD2	2.35	0.56
1:T:136:ALA:HB1	1:T:145:LEU:CD2	2.35	0.56
1:U:79:ALA:CB	1:U:88:LEU:CD2	2.82	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:132:LEU:HD13	1:V:147:ARG:HG3	1.87	0.56
1:V:136:ALA:HB1	1:V:145:LEU:CD2	2.35	0.56
1:Q:136:ALA:HB1	1:Q:145:LEU:CD2	2.35	0.56
1:B:79:ALA:CB	1:B:88:LEU:CD2	2.82	0.56
1:F:136:ALA:HB1	1:F:145:LEU:CD2	2.35	0.56
1:L:161:ARG:HD3	1:O:24:ILE:HG12	1.84	0.56
1:Y:136:ALA:HB1	1:Y:145:LEU:CD2	2.35	0.56
1:C:96:VAL:HG12	1:H:173:VAL:HG23	1.86	0.56
1:C:136:ALA:HB1	1:C:145:LEU:CD2	2.35	0.56
1:F:108:LEU:O	1:F:111:VAL:HG12	2.06	0.56
1:L:93:LEU:HD13	1:P:173:VAL:HG12	1.82	0.56
1:M:108:LEU:O	1:M:111:VAL:HG12	2.06	0.56
1:O:96:VAL:HG12	1:U:173:VAL:HG23	1.86	0.56
1:T:96:VAL:HB	1:Y:173:VAL:HG22	1.88	0.56
1:T:132:LEU:HD13	1:T:147:ARG:HG3	1.87	0.56
1:A:108:LEU:O	1:A:111:VAL:HG12	2.06	0.56
1:F:96:VAL:HB	1:K:173:VAL:HG22	1.88	0.56
1:M:136:ALA:HB1	1:M:145:LEU:CD2	2.35	0.56
1:P:96:VAL:HG12	1:V:173:VAL:HG23	1.86	0.56
1:T:79:ALA:CB	1:T:88:LEU:CD2	2.82	0.56
1:U:136:ALA:HB1	1:U:145:LEU:CD2	2.35	0.56
1:X:108:LEU:O	1:X:111:VAL:HG12	2.06	0.56
1:B:96:VAL:HG12	1:G:173:VAL:HG23	1.86	0.55
1:I:96:VAL:HB	1:M:173:VAL:HG22	1.88	0.55
1:Q:173:VAL:HG22	1:H:96:VAL:HB	1.88	0.55
1:A:96:VAL:HG12	1:F:173:VAL:HG23	1.86	0.55
1:J:96:VAL:HB	1:N:173:VAL:HG22	1.88	0.55
1:M:132:LEU:HD13	1:M:147:ARG:HG3	1.87	0.55
1:O:96:VAL:HB	1:U:173:VAL:HG22	1.88	0.55
1:R:79:ALA:CB	1:R:88:LEU:CD2	2.82	0.55
1:X:200:GLU:OE2	1:X:204:ARG:NE	2.32	0.55
1:C:122:VAL:HG21	1:C:162:VAL:HG21	1.88	0.55
1:E:108:LEU:O	1:E:111:VAL:HG12	2.06	0.55
1:G:79:ALA:CB	1:G:88:LEU:CD2	2.82	0.55
1:L:96:VAL:HB	1:P:173:VAL:HG22	1.88	0.55
1:P:108:LEU:O	1:P:111:VAL:HG12	2.06	0.55
1:S:200:GLU:OE2	1:S:204:ARG:NE	2.32	0.55
1:U:108:LEU:O	1:U:111:VAL:HG12	2.06	0.55
1:V:122:VAL:HG21	1:V:162:VAL:HG21	1.88	0.55
1:Q:132:LEU:HD13	1:Q:147:ARG:HG3	1.87	0.55
1:C:96:VAL:HB	1:H:173:VAL:HG22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:108:LEU:O	1:I:111:VAL:HG12	2.06	0.55
1:K:108:LEU:O	1:K:111:VAL:HG12	2.06	0.55
1:O:136:ALA:HB1	1:O:145:LEU:CD2	2.35	0.55
1:P:96:VAL:CG1	1:V:173:VAL:HG23	2.33	0.55
1:Z:80:LYS:NZ	1:Z:138:GLU:OE2	2.40	0.55
1:Z:122:VAL:HG21	1:Z:162:VAL:HG21	1.88	0.55
1:Z:132:LEU:HD13	1:Z:147:ARG:HG3	1.87	0.55
1:Q:96:VAL:HB	1:R:173:VAL:HG22	1.88	0.55
1:A:200:GLU:OE2	1:A:204:ARG:NE	2.32	0.55
1:J:200:GLU:OE2	1:J:204:ARG:NE	2.32	0.55
1:N:125:VAL:CG1	1:N:155:ALA:HB2	2.37	0.55
1:N:200:GLU:OE2	1:N:204:ARG:NE	2.32	0.55
1:U:161:ARG:HD3	1:Y:24:ILE:HG12	1.84	0.55
1:X:132:LEU:HD13	1:X:147:ARG:HG3	1.87	0.55
1:Y:125:VAL:CG1	1:Y:155:ALA:HB2	2.37	0.55
1:B:125:VAL:CG1	1:B:155:ALA:HB2	2.37	0.55
1:D:122:VAL:HG21	1:D:162:VAL:HG21	1.88	0.55
1:F:200:GLU:OE2	1:F:204:ARG:NE	2.32	0.55
1:G:96:VAL:HB	1:L:173:VAL:HG22	1.88	0.55
1:H:125:VAL:CG1	1:H:155:ALA:HB2	2.37	0.55
1:H:136:ALA:HB1	1:H:145:LEU:CD2	2.35	0.55
1:R:96:VAL:HB	1:W:173:VAL:HG22	1.88	0.55
1:S:96:VAL:HB	1:X:173:VAL:HG22	1.88	0.55
1:T:108:LEU:O	1:T:111:VAL:HG12	2.06	0.55
1:T:125:VAL:CG1	1:T:155:ALA:HB2	2.37	0.55
1:T:200:GLU:OE2	1:T:204:ARG:NE	2.32	0.55
1:U:122:VAL:HG21	1:U:162:VAL:HG21	1.88	0.55
1:Z:79:ALA:CB	1:Z:88:LEU:CD2	2.82	0.55
1:B:96:VAL:HB	1:G:173:VAL:HG22	1.88	0.55
1:C:108:LEU:O	1:C:111:VAL:HG12	2.06	0.55
1:C:125:VAL:CG1	1:C:155:ALA:HB2	2.37	0.55
1:G:80:LYS:NZ	1:G:138:GLU:OE2	2.40	0.55
1:G:96:VAL:HG12	1:L:173:VAL:HG23	1.86	0.55
1:G:108:LEU:O	1:G:111:VAL:HG12	2.06	0.55
1:I:132:LEU:HD13	1:I:147:ARG:HG3	1.87	0.55
1:K:96:VAL:HB	1:O:173:VAL:HG22	1.88	0.55
1:K:125:VAL:CG1	1:K:155:ALA:HB2	2.37	0.55
1:N:79:ALA:CB	1:N:88:LEU:CD2	2.82	0.55
1:O:79:ALA:HB1	1:O:88:LEU:HD23	1.89	0.55
1:P:80:LYS:NZ	1:P:138:GLU:OE2	2.40	0.55
1:P:122:VAL:HG21	1:P:162:VAL:HG21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:136:ALA:HB1	1:S:145:LEU:HD23	1.89	0.55
1:X:122:VAL:HG21	1:X:162:VAL:HG21	1.88	0.55
1:Q:125:VAL:CG1	1:Q:155:ALA:HB2	2.37	0.55
1:A:79:ALA:CB	1:A:88:LEU:CD2	2.82	0.55
1:B:80:LYS:NZ	1:B:138:GLU:OE2	2.40	0.55
1:C:65:VAL:HG21	1:C:105:VAL:CG2	2.37	0.55
1:F:125:VAL:CG1	1:F:155:ALA:HB2	2.37	0.55
1:G:125:VAL:CG1	1:G:155:ALA:HB2	2.37	0.55
1:H:122:VAL:HG21	1:H:162:VAL:HG21	1.88	0.55
1:J:125:VAL:CG1	1:J:155:ALA:HB2	2.37	0.55
1:L:79:ALA:HB1	1:L:88:LEU:HD23	1.89	0.55
1:L:80:LYS:NZ	1:L:138:GLU:OE2	2.40	0.55
1:V:65:VAL:HG21	1:V:105:VAL:CG2	2.37	0.55
1:X:125:VAL:CG1	1:X:155:ALA:HB2	2.37	0.55
1:Y:108:LEU:O	1:Y:111:VAL:HG12	2.06	0.55
1:A:65:VAL:HG21	1:A:105:VAL:CG2	2.37	0.55
1:A:122:VAL:HG21	1:A:162:VAL:HG21	1.88	0.55
1:F:65:VAL:HG21	1:F:105:VAL:CG2	2.37	0.55
1:H:79:ALA:HB1	1:H:88:LEU:HD23	1.89	0.55
1:L:125:VAL:CG1	1:L:155:ALA:HB2	2.37	0.55
1:N:122:VAL:HG21	1:N:162:VAL:HG21	1.88	0.55
1:R:125:VAL:CG1	1:R:155:ALA:HB2	2.37	0.55
1:V:125:VAL:CG1	1:V:155:ALA:HB2	2.37	0.55
1:Z:65:VAL:HG21	1:Z:105:VAL:CG2	2.37	0.55
1:A:79:ALA:HB1	1:A:88:LEU:HD23	1.89	0.55
1:D:108:LEU:O	1:D:111:VAL:HG12	2.06	0.55
1:E:96:VAL:HB	1:J:173:VAL:HG22	1.88	0.55
1:E:125:VAL:CG1	1:E:155:ALA:HB2	2.37	0.55
1:F:122:VAL:HG21	1:F:162:VAL:HG21	1.88	0.55
1:G:65:VAL:HG21	1:G:105:VAL:CG2	2.37	0.55
1:J:122:VAL:HG21	1:J:162:VAL:HG21	1.88	0.55
1:J:132:LEU:HD13	1:J:147:ARG:HG3	1.87	0.55
1:M:65:VAL:HG21	1:M:105:VAL:CG2	2.37	0.55
1:M:93:LEU:CD1	1:S:173:VAL:HG13	2.24	0.55
1:N:108:LEU:O	1:N:111:VAL:HG12	2.06	0.55
1:N:136:ALA:HB1	1:N:145:LEU:HD23	1.89	0.55
1:O:108:LEU:O	1:O:111:VAL:HG12	2.06	0.55
1:R:136:ALA:HB1	1:R:145:LEU:HD23	1.89	0.55
1:S:65:VAL:HG21	1:S:105:VAL:CG2	2.37	0.55
1:T:79:ALA:HB1	1:T:88:LEU:HD23	1.89	0.55
1:V:108:LEU:O	1:V:111:VAL:HG12	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:136:ALA:HB1	1:W:145:LEU:HD23	1.89	0.55
1:Z:125:VAL:CG1	1:Z:155:ALA:HB2	2.37	0.55
1:Q:173:VAL:HG23	1:H:96:VAL:HG12	1.86	0.54
1:I:79:ALA:HB1	1:I:88:LEU:HD23	1.89	0.54
1:J:108:LEU:O	1:J:111:VAL:HG12	2.06	0.54
1:O:125:VAL:CG1	1:O:155:ALA:HB2	2.37	0.54
1:P:125:VAL:CG1	1:P:155:ALA:HB2	2.37	0.54
1:S:122:VAL:HG21	1:S:162:VAL:HG21	1.88	0.54
1:T:65:VAL:HG21	1:T:105:VAL:CG2	2.37	0.54
1:T:122:VAL:HG21	1:T:162:VAL:HG21	1.88	0.54
1:W:125:VAL:CG1	1:W:155:ALA:HB2	2.37	0.54
1:A:96:VAL:HB	1:F:173:VAL:HG22	1.88	0.54
1:M:136:ALA:HB1	1:M:145:LEU:HD23	1.89	0.54
1:R:108:LEU:O	1:R:111:VAL:HG12	2.06	0.54
1:V:136:ALA:HB1	1:V:145:LEU:HD23	1.89	0.54
1:X:136:ALA:HB1	1:X:145:LEU:HD23	1.89	0.54
1:Q:108:LEU:O	1:Q:111:VAL:HG12	2.06	0.54
1:B:65:VAL:HG21	1:B:105:VAL:CG2	2.37	0.54
1:E:122:VAL:HG21	1:E:162:VAL:HG21	1.88	0.54
1:P:96:VAL:HB	1:V:173:VAL:HG22	1.88	0.54
1:R:65:VAL:HG21	1:R:105:VAL:CG2	2.37	0.54
1:S:125:VAL:CG1	1:S:155:ALA:HB2	2.37	0.54
1:T:136:ALA:HB1	1:T:145:LEU:HD23	1.89	0.54
1:U:65:VAL:HG21	1:U:105:VAL:CG2	2.37	0.54
1:B:108:LEU:O	1:B:111:VAL:HG12	2.06	0.54
1:P:65:VAL:HG21	1:P:105:VAL:CG2	2.37	0.54
1:U:80:LYS:NZ	1:U:138:GLU:OE2	2.40	0.54
1:U:96:VAL:HB	1:Z:173:VAL:HG22	1.88	0.54
1:U:125:VAL:CG1	1:U:155:ALA:HB2	2.37	0.54
1:W:122:VAL:HG21	1:W:162:VAL:HG21	1.88	0.54
1:Y:65:VAL:HG21	1:Y:105:VAL:CG2	2.37	0.54
1:Q:96:VAL:CG1	1:R:173:VAL:HG23	2.33	0.54
1:D:96:VAL:HB	1:I:173:VAL:HG22	1.88	0.54
1:E:79:ALA:HB1	1:E:88:LEU:HD23	1.89	0.54
1:E:96:VAL:CG1	1:J:173:VAL:HG23	2.33	0.54
1:H:108:LEU:O	1:H:111:VAL:HG12	2.06	0.54
1:K:80:LYS:NZ	1:K:138:GLU:OE2	2.40	0.54
1:K:122:VAL:HG21	1:K:162:VAL:HG21	1.88	0.54
1:L:108:LEU:O	1:L:111:VAL:HG12	2.06	0.54
1:M:122:VAL:HG21	1:M:162:VAL:HG21	1.88	0.54
1:N:4:GLU:HG2	1:N:48:VAL:CG2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:65:VAL:HG21	1:N:105:VAL:CG2	2.37	0.54
1:R:122:VAL:HG21	1:R:162:VAL:HG21	1.88	0.54
1:T:96:VAL:CG1	1:Y:173:VAL:HG23	2.33	0.54
1:V:76:LEU:HD13	1:V:135:ILE:HG12	1.90	0.54
1:W:108:LEU:O	1:W:111:VAL:HG12	2.06	0.54
1:W:132:LEU:HD13	1:W:147:ARG:HG3	1.87	0.54
1:X:79:ALA:HB1	1:X:88:LEU:HD23	1.89	0.54
1:Z:76:LEU:HD13	1:Z:135:ILE:HG12	1.90	0.54
1:A:125:VAL:CG1	1:A:155:ALA:HB2	2.37	0.54
1:A:136:ALA:HB1	1:A:145:LEU:HD23	1.89	0.54
1:B:93:LEU:CD1	1:G:173:VAL:HG13	2.24	0.54
1:B:122:VAL:HG21	1:B:162:VAL:HG21	1.88	0.54
1:C:4:GLU:HG2	1:C:48:VAL:CG2	2.38	0.54
1:D:65:VAL:HG21	1:D:105:VAL:CG2	2.37	0.54
1:D:136:ALA:HB1	1:D:145:LEU:HD23	1.89	0.54
1:G:4:GLU:HG2	1:G:48:VAL:CG2	2.38	0.54
1:G:76:LEU:HD13	1:G:135:ILE:HG12	1.90	0.54
1:G:122:VAL:HG21	1:G:162:VAL:HG21	1.88	0.54
1:H:65:VAL:HG21	1:H:105:VAL:CG2	2.37	0.54
1:I:65:VAL:HG21	1:I:105:VAL:CG2	2.37	0.54
1:I:122:VAL:HG21	1:I:162:VAL:HG21	1.88	0.54
1:K:65:VAL:HG21	1:K:105:VAL:CG2	2.37	0.54
1:M:96:VAL:HB	1:S:173:VAL:HG22	1.88	0.54
1:P:76:LEU:HD13	1:P:135:ILE:HG12	1.90	0.54
1:P:136:ALA:HB1	1:P:145:LEU:HD23	1.89	0.54
1:U:93:LEU:CD1	1:Z:173:VAL:HG13	2.24	0.54
1:U:96:VAL:HG12	1:Z:173:VAL:HG23	1.86	0.54
1:W:62:LEU:HD11	1:W:120:ARG:HG3	1.90	0.54
1:W:65:VAL:HG21	1:W:105:VAL:CG2	2.37	0.54
1:W:79:ALA:CB	1:W:88:LEU:CD2	2.82	0.54
1:X:65:VAL:HG21	1:X:105:VAL:CG2	2.37	0.54
1:Z:4:GLU:HG2	1:Z:48:VAL:CG2	2.38	0.54
1:Q:65:VAL:HG21	1:Q:105:VAL:CG2	2.37	0.54
1:Q:136:ALA:HB1	1:Q:145:LEU:HD23	1.89	0.54
1:A:4:GLU:HG2	1:A:48:VAL:CG2	2.38	0.54
1:B:4:GLU:HG2	1:B:48:VAL:CG2	2.38	0.54
1:B:76:LEU:HD13	1:B:135:ILE:HG12	1.90	0.54
1:E:65:VAL:HG21	1:E:105:VAL:CG2	2.37	0.54
1:F:4:GLU:HG2	1:F:48:VAL:CG2	2.38	0.54
1:H:76:LEU:HD13	1:H:135:ILE:HG12	1.90	0.54
1:J:136:ALA:HB1	1:J:145:LEU:HD23	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:4:GLU:HG2	1:K:48:VAL:CG2	2.38	0.54
1:L:65:VAL:HG21	1:L:105:VAL:CG2	2.37	0.54
1:N:161:ARG:HD3	1:S:24:ILE:HG12	1.84	0.54
1:Y:4:GLU:HG2	1:Y:48:VAL:CG2	2.38	0.54
1:Y:122:VAL:HG21	1:Y:162:VAL:HG21	1.88	0.54
1:Z:108:LEU:O	1:Z:111:VAL:HG12	2.06	0.54
1:Q:76:LEU:HD13	1:Q:135:ILE:HG12	1.90	0.54
1:D:125:VAL:CG1	1:D:155:ALA:HB2	2.37	0.54
1:H:4:GLU:HG2	1:H:48:VAL:CG2	2.38	0.54
1:I:125:VAL:CG1	1:I:155:ALA:HB2	2.37	0.54
1:L:76:LEU:HD13	1:L:135:ILE:HG12	1.90	0.54
1:L:96:VAL:HG12	1:P:173:VAL:HG23	1.86	0.54
1:M:125:VAL:CG1	1:M:155:ALA:HB2	2.37	0.54
1:O:76:LEU:HD13	1:O:135:ILE:HG12	1.90	0.54
1:O:136:ALA:HB1	1:O:145:LEU:HD23	1.89	0.54
1:U:4:GLU:HG2	1:U:48:VAL:CG2	2.38	0.54
1:U:76:LEU:HD13	1:U:135:ILE:HG12	1.90	0.54
1:U:136:ALA:HB1	1:U:145:LEU:HD23	1.89	0.54
1:V:4:GLU:HG2	1:V:48:VAL:CG2	2.38	0.54
1:C:76:LEU:HD13	1:C:135:ILE:HG12	1.90	0.54
1:K:76:LEU:HD13	1:K:135:ILE:HG12	1.90	0.54
1:L:122:VAL:HG21	1:L:162:VAL:HG21	1.88	0.54
1:N:96:VAL:HB	1:T:173:VAL:HG22	1.88	0.54
1:O:122:VAL:HG21	1:O:162:VAL:HG21	1.88	0.54
1:P:93:LEU:HD11	1:V:173:VAL:CG1	2.32	0.54
1:T:4:GLU:HG2	1:T:48:VAL:CG2	2.38	0.54
1:Q:122:VAL:HG21	1:Q:162:VAL:HG21	1.88	0.54
1:D:76:LEU:HD13	1:D:135:ILE:HG12	1.90	0.54
1:J:4:GLU:HG2	1:J:48:VAL:CG2	2.38	0.54
1:K:96:VAL:CG1	1:O:173:VAL:HG23	2.33	0.54
1:O:4:GLU:HG2	1:O:48:VAL:CG2	2.38	0.54
1:V:62:LEU:HD11	1:V:120:ARG:HG3	1.90	0.54
1:Y:136:ALA:HB1	1:Y:145:LEU:HD23	1.89	0.54
1:Z:136:ALA:HB1	1:Z:145:LEU:HD23	1.89	0.54
1:R:62:LEU:HD11	1:R:120:ARG:HG3	1.90	0.53
1:R:76:LEU:HD13	1:R:135:ILE:HG12	1.90	0.53
1:Y:76:LEU:HD13	1:Y:135:ILE:HG12	1.90	0.53
1:C:136:ALA:HB1	1:C:145:LEU:HD23	1.89	0.53
1:D:62:LEU:HD11	1:D:120:ARG:HG3	1.90	0.53
1:E:136:ALA:HB1	1:E:145:LEU:HD23	1.89	0.53
1:I:136:ALA:HB1	1:I:145:LEU:HD23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:136:ALA:HB1	1:K:145:LEU:HD23	1.89	0.53
1:P:4:GLU:HG2	1:P:48:VAL:CG2	2.38	0.53
1:B:136:ALA:HB1	1:B:145:LEU:HD23	1.89	0.53
1:D:96:VAL:CG1	1:I:173:VAL:HG23	2.33	0.53
1:H:80:LYS:NZ	1:H:138:GLU:OE2	2.40	0.53
1:J:65:VAL:HG21	1:J:105:VAL:CG2	2.37	0.53
1:K:96:VAL:HG12	1:O:173:VAL:HG23	1.86	0.53
1:M:62:LEU:HD11	1:M:120:ARG:HG3	1.90	0.53
1:O:65:VAL:HG21	1:O:105:VAL:CG2	2.37	0.53
1:T:76:LEU:HD13	1:T:135:ILE:HG12	1.90	0.53
1:B:96:VAL:CG1	1:G:173:VAL:HG23	2.33	0.53
1:M:96:VAL:CG1	1:S:173:VAL:HG23	2.33	0.53
1:R:4:GLU:HG2	1:R:48:VAL:CG2	2.38	0.53
1:F:76:LEU:HD13	1:F:135:ILE:HG12	1.90	0.53
1:I:76:LEU:HD13	1:I:135:ILE:HG12	1.90	0.53
1:M:4:GLU:HG2	1:M:48:VAL:CG2	2.38	0.53
1:P:62:LEU:HD11	1:P:120:ARG:HG3	1.90	0.53
1:S:4:GLU:HG2	1:S:48:VAL:CG2	2.38	0.53
1:E:80:LYS:NZ	1:E:138:GLU:OE2	2.40	0.53
1:G:4:GLU:OE1	1:G:7:ARG:HD2	2.09	0.53
1:M:80:LYS:NZ	1:M:138:GLU:OE2	2.40	0.53
1:O:4:GLU:OE1	1:O:7:ARG:HD2	2.09	0.53
1:Q:4:GLU:HG2	1:Q:48:VAL:CG2	2.38	0.53
1:I:4:GLU:HG2	1:I:48:VAL:CG2	2.38	0.53
1:L:4:GLU:HG2	1:L:48:VAL:CG2	2.38	0.53
1:L:125:VAL:HG12	1:L:155:ALA:HB2	1.91	0.53
1:L:136:ALA:HB1	1:L:145:LEU:HD23	1.89	0.53
1:Y:4:GLU:OE1	1:Y:7:ARG:HD2	2.09	0.53
1:G:125:VAL:HG12	1:G:155:ALA:HB2	1.91	0.53
1:O:93:LEU:HD11	1:U:173:VAL:CG1	2.33	0.53
1:Q:194:ARG:NH1	1:Q:195:GLU:OE2	2.42	0.53
1:F:136:ALA:HB1	1:F:145:LEU:HD23	1.89	0.53
1:H:4:GLU:OE1	1:H:7:ARG:HD2	2.09	0.53
1:P:4:GLU:OE1	1:P:7:ARG:HD2	2.09	0.53
1:V:4:GLU:OE1	1:V:7:ARG:HD2	2.09	0.53
1:W:4:GLU:HG2	1:W:48:VAL:CG2	2.38	0.53
1:W:76:LEU:HD13	1:W:135:ILE:HG12	1.90	0.53
1:W:80:LYS:NZ	1:W:138:GLU:OE2	2.40	0.53
1:X:4:GLU:HG2	1:X:48:VAL:CG2	2.38	0.53
1:Q:4:GLU:OE1	1:Q:7:ARG:HD2	2.09	0.53
1:A:76:LEU:HD13	1:A:135:ILE:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4:GLU:HG2	1:D:48:VAL:CG2	2.38	0.53
1:G:194:ARG:NH1	1:G:195:GLU:OE2	2.42	0.53
1:M:76:LEU:HD13	1:M:135:ILE:HG12	1.90	0.53
1:N:76:LEU:HD13	1:N:135:ILE:HG12	1.90	0.53
1:P:125:VAL:HG12	1:P:155:ALA:HB2	1.91	0.53
1:P:194:ARG:NH1	1:P:195:GLU:OE2	2.42	0.53
1:X:4:GLU:OE1	1:X:7:ARG:HD2	2.09	0.53
1:Z:4:GLU:OE1	1:Z:7:ARG:HD2	2.09	0.53
1:Z:194:ARG:NH1	1:Z:195:GLU:OE2	2.42	0.53
1:D:4:GLU:OE1	1:D:7:ARG:HD2	2.09	0.52
1:E:4:GLU:OE1	1:E:7:ARG:HD2	2.09	0.52
1:E:76:LEU:HD13	1:E:135:ILE:HG12	1.90	0.52
1:F:4:GLU:OE1	1:F:7:ARG:HD2	2.09	0.52
1:H:125:VAL:HG12	1:H:155:ALA:HB2	1.91	0.52
1:J:76:LEU:HD13	1:J:135:ILE:HG12	1.90	0.52
1:K:125:VAL:HG12	1:K:155:ALA:HB2	1.91	0.52
1:K:194:ARG:NH1	1:K:195:GLU:OE2	2.42	0.52
1:O:125:VAL:HG12	1:O:155:ALA:HB2	1.91	0.52
1:S:93:LEU:HD11	1:X:173:VAL:CG1	2.32	0.52
1:Q:125:VAL:HG12	1:Q:155:ALA:HB2	1.91	0.52
1:A:4:GLU:OE1	1:A:7:ARG:HD2	2.09	0.52
1:C:194:ARG:NH1	1:C:195:GLU:OE2	2.42	0.52
1:D:194:ARG:NH1	1:D:195:GLU:OE2	2.42	0.52
1:E:4:GLU:HG2	1:E:48:VAL:CG2	2.38	0.52
1:H:136:ALA:HB1	1:H:145:LEU:HD23	1.89	0.52
1:I:4:GLU:OE1	1:I:7:ARG:HD2	2.09	0.52
1:S:76:LEU:HD13	1:S:135:ILE:HG12	1.90	0.52
1:T:194:ARG:NH1	1:T:195:GLU:OE2	2.42	0.52
1:V:194:ARG:NH1	1:V:195:GLU:OE2	2.42	0.52
1:Q:62:LEU:HD11	1:Q:120:ARG:HG3	1.90	0.52
1:E:194:ARG:NH1	1:E:195:GLU:OE2	2.42	0.52
1:S:4:GLU:OE1	1:S:7:ARG:HD2	2.09	0.52
1:W:4:GLU:OE1	1:W:7:ARG:HD2	2.09	0.52
1:X:80:LYS:NZ	1:X:138:GLU:OE2	2.40	0.52
1:F:125:VAL:HG12	1:F:155:ALA:HB2	1.91	0.52
1:J:4:GLU:OE1	1:J:7:ARG:HD2	2.09	0.52
1:N:4:GLU:OE1	1:N:7:ARG:HD2	2.09	0.52
1:S:80:LYS:NZ	1:S:138:GLU:OE2	2.40	0.52
1:U:194:ARG:NH1	1:U:195:GLU:OE2	2.42	0.52
1:W:194:ARG:NH1	1:W:195:GLU:OE2	2.42	0.52
1:X:76:LEU:HD13	1:X:135:ILE:HG12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:125:VAL:HG12	1:B:155:ALA:HB2	1.91	0.52
1:B:194:ARG:NH1	1:B:195:GLU:OE2	2.42	0.52
1:O:194:ARG:NH1	1:O:195:GLU:OE2	2.42	0.52
1:U:4:GLU:OE1	1:U:7:ARG:HD2	2.09	0.52
1:A:194:ARG:NH1	1:A:195:GLU:OE2	2.42	0.52
1:D:80:LYS:NZ	1:D:138:GLU:OE2	2.40	0.52
1:H:194:ARG:NH1	1:H:195:GLU:OE2	2.42	0.52
1:L:4:GLU:OE1	1:L:7:ARG:HD2	2.09	0.52
1:N:194:ARG:NH1	1:N:195:GLU:OE2	2.42	0.52
1:G:136:ALA:HB1	1:G:145:LEU:HD23	1.89	0.52
1:I:194:ARG:NH1	1:I:195:GLU:OE2	2.42	0.52
1:J:4:GLU:HG2	1:J:48:VAL:HG22	1.92	0.52
1:J:62:LEU:HD11	1:J:120:ARG:HG3	1.90	0.52
1:X:194:ARG:NH1	1:X:195:GLU:OE2	2.42	0.52
1:C:125:VAL:HG12	1:C:155:ALA:HB2	1.91	0.52
1:D:4:GLU:HG2	1:D:48:VAL:HG22	1.92	0.52
1:J:194:ARG:NH1	1:J:195:GLU:OE2	2.42	0.52
1:L:62:LEU:HD11	1:L:120:ARG:HG3	1.90	0.52
1:M:194:ARG:NH1	1:M:195:GLU:OE2	2.42	0.52
1:N:80:LYS:NZ	1:N:138:GLU:OE2	2.40	0.52
1:N:125:VAL:HG12	1:N:155:ALA:HB2	1.91	0.52
1:S:194:ARG:NH1	1:S:195:GLU:OE2	2.42	0.52
1:W:4:GLU:HG2	1:W:48:VAL:HG22	1.92	0.52
1:Y:125:VAL:HG12	1:Y:155:ALA:HB2	1.91	0.52
1:B:40:GLU:HG3	1:B:43:ARG:NH2	2.25	0.52
1:C:4:GLU:OE1	1:C:7:ARG:HD2	2.09	0.52
1:F:4:GLU:HG2	1:F:48:VAL:HG22	1.92	0.52
1:K:40:GLU:HG3	1:K:43:ARG:NH2	2.25	0.52
1:L:194:ARG:NH1	1:L:195:GLU:OE2	2.42	0.52
1:R:125:VAL:HG12	1:R:155:ALA:HB2	1.91	0.52
1:T:4:GLU:OE1	1:T:7:ARG:HD2	2.09	0.52
1:X:4:GLU:HG2	1:X:48:VAL:HG22	1.92	0.52
1:X:40:GLU:HG3	1:X:43:ARG:NH2	2.25	0.52
1:Q:4:GLU:HG2	1:Q:48:VAL:HG22	1.92	0.52
1:A:40:GLU:HG3	1:A:43:ARG:NH2	2.25	0.52
1:B:4:GLU:OE1	1:B:7:ARG:HD2	2.09	0.52
1:F:194:ARG:NH1	1:F:195:GLU:OE2	2.42	0.52
1:H:4:GLU:HG2	1:H:48:VAL:HG22	1.92	0.52
1:I:62:LEU:HD11	1:I:120:ARG:HG3	1.90	0.52
1:I:125:VAL:HG12	1:I:155:ALA:HB2	1.91	0.52
1:J:125:VAL:HG12	1:J:155:ALA:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4:GLU:HG2	1:M:48:VAL:HG22	1.92	0.52
1:N:4:GLU:HG2	1:N:48:VAL:HG22	1.92	0.52
1:N:40:GLU:HG3	1:N:43:ARG:NH2	2.25	0.52
1:O:40:GLU:HG3	1:O:43:ARG:NH2	2.25	0.52
1:R:4:GLU:HG2	1:R:48:VAL:HG22	1.92	0.52
1:T:40:GLU:HG3	1:T:43:ARG:NH2	2.25	0.52
1:U:125:VAL:HG12	1:U:155:ALA:HB2	1.91	0.52
1:V:125:VAL:HG12	1:V:155:ALA:HB2	1.91	0.52
1:Z:40:GLU:HG3	1:Z:43:ARG:NH2	2.25	0.52
1:Z:125:VAL:HG12	1:Z:155:ALA:HB2	1.91	0.52
1:A:4:GLU:HG2	1:A:48:VAL:HG22	1.92	0.51
1:P:40:GLU:HG3	1:P:43:ARG:NH2	2.25	0.51
1:R:80:LYS:NZ	1:R:138:GLU:OE2	2.40	0.51
1:S:4:GLU:HG2	1:S:48:VAL:HG22	1.92	0.51
1:T:4:GLU:HG2	1:T:48:VAL:HG22	1.92	0.51
1:Y:4:GLU:HG2	1:Y:48:VAL:HG22	1.92	0.51
1:E:4:GLU:HG2	1:E:48:VAL:HG22	1.92	0.51
1:F:40:GLU:HG3	1:F:43:ARG:NH2	2.25	0.51
1:I:4:GLU:HG2	1:I:48:VAL:HG22	1.92	0.51
1:I:80:LYS:NZ	1:I:138:GLU:OE2	2.40	0.51
1:K:4:GLU:OE1	1:K:7:ARG:HD2	2.09	0.51
1:K:93:LEU:HD11	1:O:173:VAL:CG1	2.33	0.51
1:M:4:GLU:OE1	1:M:7:ARG:HD2	2.09	0.51
1:U:96:VAL:HG12	1:Z:173:VAL:HG21	1.91	0.51
1:V:4:GLU:HG2	1:V:48:VAL:HG22	1.92	0.51
1:Y:40:GLU:HG3	1:Y:43:ARG:NH2	2.25	0.51
1:Y:194:ARG:NH1	1:Y:195:GLU:OE2	2.42	0.51
1:Q:80:LYS:NZ	1:Q:138:GLU:OE2	2.40	0.51
1:A:80:LYS:NZ	1:A:138:GLU:OE2	2.40	0.51
1:B:4:GLU:HG2	1:B:48:VAL:HG22	1.92	0.51
1:E:40:GLU:HG3	1:E:43:ARG:NH2	2.25	0.51
1:G:40:GLU:HG3	1:G:43:ARG:NH2	2.25	0.51
1:I:40:GLU:HG3	1:I:43:ARG:NH2	2.25	0.51
1:J:80:LYS:NZ	1:J:138:GLU:OE2	2.40	0.51
1:O:93:LEU:CD1	1:U:173:VAL:HG13	2.24	0.51
1:R:194:ARG:NH1	1:R:195:GLU:OE2	2.42	0.51
1:H:40:GLU:HG3	1:H:43:ARG:NH2	2.25	0.51
1:J:65:VAL:HG21	1:J:105:VAL:HG23	1.92	0.51
1:L:4:GLU:HG2	1:L:48:VAL:HG22	1.92	0.51
1:M:125:VAL:HG12	1:M:155:ALA:HB2	1.91	0.51
1:O:4:GLU:HG2	1:O:48:VAL:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:4:GLU:HG2	1:P:48:VAL:HG22	1.92	0.51
1:S:65:VAL:HG21	1:S:105:VAL:HG23	1.92	0.51
1:T:125:VAL:HG12	1:T:155:ALA:HB2	1.91	0.51
1:Q:93:LEU:HD11	1:R:173:VAL:CG1	2.32	0.51
1:F:80:LYS:NZ	1:F:138:GLU:OE2	2.40	0.51
1:M:40:GLU:HG3	1:M:43:ARG:NH2	2.25	0.51
1:R:40:GLU:HG3	1:R:43:ARG:NH2	2.25	0.51
1:U:40:GLU:HG3	1:U:43:ARG:NH2	2.25	0.51
1:A:125:VAL:HG12	1:A:155:ALA:HB2	1.91	0.51
1:C:4:GLU:HG2	1:C:48:VAL:HG22	1.92	0.51
1:C:65:VAL:HG21	1:C:105:VAL:HG23	1.92	0.51
1:D:125:VAL:HG12	1:D:155:ALA:HB2	1.91	0.51
1:K:4:GLU:HG2	1:K:48:VAL:HG22	1.92	0.51
1:N:65:VAL:HG21	1:N:105:VAL:HG23	1.92	0.51
1:O:96:VAL:HG12	1:U:173:VAL:HG21	1.92	0.51
1:U:4:GLU:HG2	1:U:48:VAL:HG22	1.92	0.51
1:W:40:GLU:HG3	1:W:43:ARG:NH2	2.25	0.51
1:X:65:VAL:HG21	1:X:105:VAL:HG23	1.92	0.51
1:Z:65:VAL:HG21	1:Z:105:VAL:HG23	1.92	0.51
1:Q:46:LYS:O	1:Q:50:GLU:HG2	2.11	0.51
1:B:46:LYS:O	1:B:50:GLU:HG2	2.11	0.51
1:E:65:VAL:HG21	1:E:105:VAL:HG23	1.92	0.51
1:K:46:LYS:O	1:K:50:GLU:HG2	2.11	0.51
1:M:46:LYS:O	1:M:50:GLU:HG2	2.11	0.51
1:S:42:ALA:CB	1:S:71:VAL:HG11	2.38	0.51
1:S:125:VAL:HG12	1:S:155:ALA:HB2	1.91	0.51
1:V:46:LYS:O	1:V:50:GLU:HG2	2.11	0.51
1:Z:4:GLU:HG2	1:Z:48:VAL:HG22	1.92	0.51
1:D:46:LYS:O	1:D:50:GLU:HG2	2.11	0.51
1:E:46:LYS:O	1:E:50:GLU:HG2	2.11	0.51
1:E:125:VAL:HG12	1:E:155:ALA:HB2	1.91	0.51
1:F:65:VAL:HG21	1:F:105:VAL:HG23	1.92	0.51
1:G:4:GLU:HG2	1:G:48:VAL:HG22	1.92	0.51
1:J:93:LEU:HD11	1:N:173:VAL:HG12	1.91	0.51
1:L:40:GLU:HG3	1:L:43:ARG:NH2	2.25	0.51
1:M:65:VAL:HG21	1:M:105:VAL:HG23	1.92	0.51
1:N:42:ALA:CB	1:N:71:VAL:HG11	2.38	0.51
1:R:4:GLU:OE1	1:R:7:ARG:HD2	2.09	0.51
1:S:40:GLU:HG3	1:S:43:ARG:NH2	2.25	0.51
1:T:46:LYS:O	1:T:50:GLU:HG2	2.11	0.51
1:V:65:VAL:HG21	1:V:105:VAL:HG23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:46:LYS:O	1:A:50:GLU:HG2	2.11	0.51
1:A:65:VAL:HG21	1:A:105:VAL:HG23	1.92	0.51
1:C:46:LYS:O	1:C:50:GLU:HG2	2.11	0.51
1:D:93:LEU:HD11	1:I:173:VAL:HG12	1.91	0.51
1:J:40:GLU:HG3	1:J:43:ARG:NH2	2.25	0.51
1:L:46:LYS:O	1:L:50:GLU:HG2	2.11	0.51
1:W:125:VAL:HG12	1:W:155:ALA:HB2	1.91	0.51
1:C:40:GLU:HG3	1:C:43:ARG:NH2	2.25	0.51
1:G:65:VAL:HG21	1:G:105:VAL:HG23	1.92	0.51
1:T:65:VAL:HG21	1:T:105:VAL:HG23	1.92	0.51
1:U:46:LYS:O	1:U:50:GLU:HG2	2.11	0.51
1:W:46:LYS:O	1:W:50:GLU:HG2	2.11	0.51
1:W:65:VAL:HG21	1:W:105:VAL:HG23	1.92	0.51
1:X:125:VAL:HG12	1:X:155:ALA:HB2	1.91	0.51
1:Q:40:GLU:HG3	1:Q:43:ARG:NH2	2.25	0.50
1:I:46:LYS:O	1:I:50:GLU:HG2	2.11	0.50
1:J:46:LYS:O	1:J:50:GLU:HG2	2.11	0.50
1:O:80:LYS:NZ	1:O:138:GLU:OE2	2.40	0.50
1:T:96:VAL:HG12	1:Y:173:VAL:HG21	1.92	0.50
1:V:80:LYS:NZ	1:V:138:GLU:OE2	2.40	0.50
1:B:42:ALA:CB	1:B:71:VAL:HG11	2.38	0.50
1:E:62:LEU:HD11	1:E:120:ARG:HG3	1.90	0.50
1:E:93:LEU:HD11	1:J:173:VAL:HG12	1.91	0.50
1:H:65:VAL:HG21	1:H:105:VAL:HG23	1.92	0.50
1:I:65:VAL:HG21	1:I:105:VAL:HG23	1.92	0.50
1:R:46:LYS:O	1:R:50:GLU:HG2	2.11	0.50
1:V:40:GLU:HG3	1:V:43:ARG:NH2	2.25	0.50
1:X:4:GLU:O	1:X:7:ARG:HB2	2.12	0.50
1:H:62:LEU:HD11	1:H:120:ARG:HG3	1.90	0.50
1:I:4:GLU:O	1:I:7:ARG:HB2	2.12	0.50
1:J:62:LEU:HD23	1:J:62:LEU:C	2.32	0.50
1:L:93:LEU:HD11	1:P:173:VAL:CG1	2.32	0.50
1:S:46:LYS:O	1:S:50:GLU:HG2	2.11	0.50
1:S:62:LEU:C	1:S:62:LEU:HD23	2.32	0.50
1:U:65:VAL:HG21	1:U:105:VAL:HG23	1.92	0.50
1:W:4:GLU:O	1:W:7:ARG:HB2	2.12	0.50
1:Y:46:LYS:O	1:Y:50:GLU:HG2	2.11	0.50
1:A:62:LEU:HD23	1:A:62:LEU:C	2.32	0.50
1:B:65:VAL:HG21	1:B:105:VAL:HG23	1.92	0.50
1:D:40:GLU:HG3	1:D:43:ARG:NH2	2.25	0.50
1:E:62:LEU:HD23	1:E:62:LEU:C	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:4:GLU:O	1:M:7:ARG:HB2	2.12	0.50
1:N:4:GLU:O	1:N:7:ARG:HB2	2.12	0.50
1:T:80:LYS:NZ	1:T:138:GLU:OE2	2.40	0.50
1:E:4:GLU:O	1:E:7:ARG:HB2	2.12	0.50
1:J:4:GLU:O	1:J:7:ARG:HB2	2.12	0.50
1:K:65:VAL:HG21	1:K:105:VAL:HG23	1.92	0.50
1:K:96:VAL:HG12	1:O:173:VAL:HG21	1.91	0.50
1:V:62:LEU:C	1:V:62:LEU:HD23	2.32	0.50
1:Y:65:VAL:HG21	1:Y:105:VAL:HG23	1.92	0.50
1:D:62:LEU:HD23	1:D:62:LEU:C	2.32	0.50
1:D:65:VAL:HG21	1:D:105:VAL:HG23	1.92	0.50
1:F:93:LEU:HD11	1:K:173:VAL:CG1	2.32	0.50
1:H:62:LEU:C	1:H:62:LEU:HD23	2.32	0.50
1:P:65:VAL:HG21	1:P:105:VAL:HG23	1.92	0.50
1:P:96:VAL:HG12	1:V:173:VAL:HG21	1.92	0.50
1:R:4:GLU:O	1:R:7:ARG:HB2	2.12	0.50
1:F:4:GLU:O	1:F:7:ARG:HB2	2.12	0.50
1:G:62:LEU:HD11	1:G:120:ARG:HG3	1.90	0.50
1:G:62:LEU:HD23	1:G:62:LEU:C	2.32	0.50
1:H:46:LYS:O	1:H:50:GLU:HG2	2.11	0.50
1:I:62:LEU:HD23	1:I:62:LEU:C	2.32	0.50
1:O:46:LYS:O	1:O:50:GLU:HG2	2.11	0.50
1:P:62:LEU:HD23	1:P:62:LEU:C	2.32	0.50
1:A:4:GLU:O	1:A:7:ARG:HB2	2.12	0.50
1:L:65:VAL:HG21	1:L:105:VAL:HG23	1.92	0.50
1:O:62:LEU:HD23	1:O:62:LEU:C	2.32	0.50
1:R:62:LEU:HD23	1:R:62:LEU:C	2.32	0.50
1:R:65:VAL:HG21	1:R:105:VAL:HG23	1.92	0.50
1:U:42:ALA:CB	1:U:71:VAL:HG11	2.38	0.50
1:Y:62:LEU:HD23	1:Y:62:LEU:C	2.32	0.50
1:Z:62:LEU:HD23	1:Z:62:LEU:C	2.32	0.50
1:Q:62:LEU:HD23	1:Q:62:LEU:C	2.32	0.49
1:L:96:VAL:HG12	1:P:173:VAL:HG21	1.92	0.49
1:M:62:LEU:HD23	1:M:62:LEU:C	2.32	0.49
1:M:93:LEU:HD11	1:S:173:VAL:CG1	2.32	0.49
1:N:62:LEU:C	1:N:62:LEU:HD23	2.32	0.49
1:N:96:VAL:HG12	1:T:173:VAL:HG21	1.91	0.49
1:X:46:LYS:O	1:X:50:GLU:HG2	2.11	0.49
1:Z:46:LYS:O	1:Z:50:GLU:HG2	2.11	0.49
1:K:133:LEU:HD13	1:K:192:ILE:HD11	1.94	0.49
1:L:133:LEU:HD13	1:L:192:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:65:VAL:HG21	1:O:105:VAL:HG23	1.92	0.49
1:T:62:LEU:HD23	1:T:62:LEU:C	2.32	0.49
1:X:62:LEU:HD23	1:X:62:LEU:C	2.32	0.49
1:Q:4:GLU:O	1:Q:7:ARG:HB2	2.12	0.49
1:C:62:LEU:C	1:C:62:LEU:HD23	2.32	0.49
1:D:4:GLU:O	1:D:7:ARG:HB2	2.12	0.49
1:H:4:GLU:O	1:H:7:ARG:HB2	2.12	0.49
1:L:4:GLU:O	1:L:7:ARG:HB2	2.12	0.49
1:L:62:LEU:HD23	1:L:62:LEU:C	2.32	0.49
1:O:133:LEU:HD13	1:O:192:ILE:HD11	1.94	0.49
1:P:46:LYS:O	1:P:50:GLU:HG2	2.11	0.49
1:C:93:LEU:HD11	1:H:173:VAL:HG12	1.91	0.49
1:F:46:LYS:O	1:F:50:GLU:HG2	2.11	0.49
1:F:62:LEU:HD11	1:F:120:ARG:HG3	1.90	0.49
1:K:62:LEU:C	1:K:62:LEU:HD23	2.32	0.49
1:M:42:ALA:CB	1:M:71:VAL:HG11	2.38	0.49
1:N:46:LYS:O	1:N:50:GLU:HG2	2.11	0.49
1:O:4:GLU:O	1:O:7:ARG:HB2	2.12	0.49
1:S:4:GLU:O	1:S:7:ARG:HB2	2.12	0.49
1:Y:80:LYS:NZ	1:Y:138:GLU:OE2	2.40	0.49
1:Q:65:VAL:HG21	1:Q:105:VAL:HG23	1.92	0.49
1:A:96:VAL:HG12	1:F:173:VAL:HG21	1.91	0.49
1:B:62:LEU:HD23	1:B:62:LEU:C	2.32	0.49
1:F:42:ALA:CB	1:F:71:VAL:HG11	2.38	0.49
1:V:4:GLU:O	1:V:7:ARG:HB2	2.12	0.49
1:X:106:LEU:HD12	1:X:118:ALA:HB1	1.95	0.49
1:Y:4:GLU:O	1:Y:7:ARG:HB2	2.12	0.49
1:F:106:LEU:HD12	1:F:118:ALA:HB1	1.95	0.49
1:G:46:LYS:O	1:G:50:GLU:HG2	2.11	0.49
1:G:133:LEU:HD13	1:G:192:ILE:HD11	1.95	0.49
1:K:93:LEU:HD11	1:O:173:VAL:HG12	1.92	0.49
1:N:106:LEU:HD12	1:N:118:ALA:HB1	1.95	0.49
1:U:4:GLU:O	1:U:7:ARG:HB2	2.12	0.49
1:V:205:ALA:O	1:V:209:ARG:HG3	2.13	0.49
1:W:62:LEU:HD23	1:W:62:LEU:C	2.32	0.49
1:C:80:LYS:NZ	1:C:138:GLU:OE2	2.40	0.49
1:C:205:ALA:O	1:C:209:ARG:HG3	2.13	0.49
1:G:4:GLU:O	1:G:7:ARG:HB2	2.12	0.49
1:H:205:ALA:O	1:H:209:ARG:HG3	2.13	0.49
1:P:4:GLU:O	1:P:7:ARG:HB2	2.12	0.49
1:E:106:LEU:HD12	1:E:118:ALA:HB1	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:93:LEU:HD11	1:L:173:VAL:HG12	1.91	0.49
1:H:133:LEU:HD13	1:H:192:ILE:HD11	1.94	0.49
1:I:205:ALA:O	1:I:209:ARG:HG3	2.13	0.49
1:K:4:GLU:O	1:K:7:ARG:HB2	2.12	0.49
1:K:62:LEU:HD11	1:K:120:ARG:HG3	1.90	0.49
1:M:106:LEU:HD12	1:M:118:ALA:HB1	1.95	0.49
1:M:205:ALA:O	1:M:209:ARG:HG3	2.13	0.49
1:U:62:LEU:HD23	1:U:62:LEU:C	2.32	0.49
1:W:106:LEU:HD12	1:W:118:ALA:HB1	1.95	0.49
1:F:93:LEU:HD11	1:K:173:VAL:HG12	1.91	0.49
1:J:42:ALA:CB	1:J:71:VAL:HG11	2.38	0.49
1:N:133:LEU:HD13	1:N:192:ILE:HD11	1.94	0.49
1:P:133:LEU:HD13	1:P:192:ILE:HD11	1.94	0.49
1:P:205:ALA:O	1:P:209:ARG:HG3	2.13	0.49
1:T:133:LEU:HD13	1:T:192:ILE:HD11	1.94	0.49
1:Y:62:LEU:HD11	1:Y:120:ARG:HG3	1.90	0.49
1:B:62:LEU:HD11	1:B:120:ARG:HG3	1.90	0.49
1:F:62:LEU:HD23	1:F:62:LEU:C	2.32	0.49
1:T:4:GLU:O	1:T:7:ARG:HB2	2.12	0.49
1:D:205:ALA:O	1:D:209:ARG:HG3	2.13	0.48
1:G:96:VAL:HG12	1:L:173:VAL:HG21	1.92	0.48
1:I:106:LEU:HD12	1:I:118:ALA:HB1	1.95	0.48
1:U:133:LEU:HD13	1:U:192:ILE:HD11	1.94	0.48
1:Y:42:ALA:CB	1:Y:71:VAL:HG11	2.38	0.48
1:B:4:GLU:O	1:B:7:ARG:HB2	2.12	0.48
1:C:133:LEU:HD13	1:C:192:ILE:HD11	1.94	0.48
1:F:133:LEU:HD13	1:F:192:ILE:HD11	1.94	0.48
1:S:205:ALA:O	1:S:209:ARG:HG3	2.13	0.48
1:Z:4:GLU:O	1:Z:7:ARG:HB2	2.12	0.48
1:Q:133:LEU:HD13	1:Q:192:ILE:HD11	1.94	0.48
1:Q:205:ALA:O	1:Q:209:ARG:HG3	2.13	0.48
1:N:62:LEU:HD11	1:N:120:ARG:HG3	1.90	0.48
1:R:106:LEU:HD12	1:R:118:ALA:HB1	1.95	0.48
1:Y:205:ALA:O	1:Y:209:ARG:HG3	2.13	0.48
1:J:133:LEU:HD13	1:J:192:ILE:HD11	1.94	0.48
1:S:96:VAL:HG12	1:X:173:VAL:HG21	1.91	0.48
1:Z:133:LEU:HD13	1:Z:192:ILE:HD11	1.94	0.48
1:A:62:LEU:HD11	1:A:120:ARG:HG3	1.90	0.48
1:A:106:LEU:HD12	1:A:118:ALA:HB1	1.95	0.48
1:D:96:VAL:HG12	1:I:173:VAL:HG21	1.92	0.48
1:L:205:ALA:O	1:L:209:ARG:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:205:ALA:O	1:W:209:ARG:HG3	2.13	0.48
1:B:133:LEU:HD13	1:B:192:ILE:HD11	1.94	0.48
1:B:205:ALA:O	1:B:209:ARG:HG3	2.13	0.48
1:E:205:ALA:O	1:E:209:ARG:HG3	2.13	0.48
1:F:96:VAL:HG12	1:K:173:VAL:HG21	1.92	0.48
1:I:130:GLU:HG2	1:I:134:ARG:NH1	2.29	0.48
1:K:205:ALA:O	1:K:209:ARG:HG3	2.13	0.48
1:N:205:ALA:O	1:N:209:ARG:HG3	2.13	0.48
1:R:96:VAL:HG12	1:W:173:VAL:HG21	1.91	0.48
1:T:62:LEU:HD11	1:T:120:ARG:HG3	1.90	0.48
1:U:106:LEU:HD12	1:U:118:ALA:HB1	1.95	0.48
1:A:93:LEU:HD11	1:F:173:VAL:CG1	2.32	0.48
1:C:4:GLU:O	1:C:7:ARG:HB2	2.12	0.48
1:E:130:GLU:HG2	1:E:134:ARG:NH1	2.29	0.48
1:E:133:LEU:HD13	1:E:192:ILE:HD11	1.94	0.48
1:F:205:ALA:O	1:F:209:ARG:HG3	2.13	0.48
1:H:106:LEU:HD12	1:H:118:ALA:HB1	1.95	0.48
1:I:133:LEU:HD13	1:I:192:ILE:HD11	1.95	0.48
1:M:130:GLU:HG2	1:M:134:ARG:NH1	2.29	0.48
1:W:133:LEU:HD13	1:W:192:ILE:HD11	1.94	0.48
1:X:205:ALA:O	1:X:209:ARG:HG3	2.13	0.48
1:Y:106:LEU:HD12	1:Y:118:ALA:HB1	1.95	0.48
1:Q:123:GLU:O	1:Q:126:VAL:HB	2.14	0.48
1:D:123:GLU:O	1:D:126:VAL:HB	2.14	0.48
1:G:130:GLU:HG2	1:G:134:ARG:NH1	2.29	0.48
1:J:106:LEU:HD12	1:J:118:ALA:HB1	1.95	0.48
1:L:106:LEU:HD12	1:L:118:ALA:HB1	1.95	0.48
1:M:42:ALA:HB2	1:M:71:VAL:CG1	2.40	0.48
1:M:133:LEU:HD13	1:M:192:ILE:HD11	1.94	0.48
1:Q:96:VAL:HG12	1:R:173:VAL:HG21	1.92	0.48
1:A:93:LEU:HD11	1:F:173:VAL:HG12	1.91	0.48
1:C:62:LEU:HD11	1:C:120:ARG:HG3	1.90	0.48
1:C:106:LEU:HD12	1:C:118:ALA:HB1	1.95	0.48
1:D:130:GLU:HG2	1:D:134:ARG:NH1	2.29	0.48
1:J:96:VAL:HG12	1:N:173:VAL:HG21	1.91	0.48
1:P:106:LEU:HD12	1:P:118:ALA:HB1	1.95	0.48
1:R:130:GLU:HG2	1:R:134:ARG:NH1	2.29	0.48
1:R:133:LEU:HD13	1:R:192:ILE:HD11	1.94	0.48
1:S:130:GLU:HG2	1:S:134:ARG:NH1	2.29	0.48
1:U:79:ALA:HB1	1:U:88:LEU:HD23	1.89	0.48
1:Y:133:LEU:HD13	1:Y:192:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:130:GLU:HG2	1:J:134:ARG:NH1	2.29	0.48
1:L:130:GLU:HG2	1:L:134:ARG:NH1	2.29	0.48
1:O:106:LEU:HD12	1:O:118:ALA:HB1	1.95	0.48
1:O:130:GLU:HG2	1:O:134:ARG:NH1	2.29	0.48
1:S:106:LEU:HD12	1:S:118:ALA:HB1	1.95	0.48
1:S:133:LEU:HD13	1:S:192:ILE:HD11	1.94	0.48
1:T:93:LEU:HD11	1:Y:173:VAL:CG1	2.32	0.48
1:U:130:GLU:HG2	1:U:134:ARG:NH1	2.29	0.48
1:W:130:GLU:HG2	1:W:134:ARG:NH1	2.29	0.48
1:Y:123:GLU:O	1:Y:126:VAL:HB	2.14	0.48
1:B:123:GLU:O	1:B:126:VAL:HB	2.14	0.47
1:B:130:GLU:HG2	1:B:134:ARG:NH1	2.29	0.47
1:G:205:ALA:O	1:G:209:ARG:HG3	2.13	0.47
1:M:123:GLU:O	1:M:126:VAL:HB	2.14	0.47
1:P:79:ALA:HB1	1:P:88:LEU:HD23	1.89	0.47
1:V:123:GLU:O	1:V:126:VAL:HB	2.14	0.47
1:Z:106:LEU:HD12	1:Z:118:ALA:HB1	1.95	0.47
1:D:133:LEU:HD13	1:D:192:ILE:HD11	1.94	0.47
1:K:130:GLU:HG2	1:K:134:ARG:NH1	2.29	0.47
1:R:205:ALA:O	1:R:209:ARG:HG3	2.13	0.47
1:T:205:ALA:O	1:T:209:ARG:HG3	2.13	0.47
1:U:123:GLU:O	1:U:126:VAL:HB	2.14	0.47
1:W:123:GLU:O	1:W:126:VAL:HB	2.14	0.47
1:X:62:LEU:HD11	1:X:120:ARG:HG3	1.90	0.47
1:X:130:GLU:HG2	1:X:134:ARG:NH1	2.29	0.47
1:Y:130:GLU:HG2	1:Y:134:ARG:NH1	2.29	0.47
1:Z:205:ALA:O	1:Z:209:ARG:HG3	2.13	0.47
1:Q:130:GLU:HG2	1:Q:134:ARG:NH1	2.29	0.47
1:A:205:ALA:O	1:A:209:ARG:HG3	2.13	0.47
1:C:130:GLU:HG2	1:C:134:ARG:NH1	2.29	0.47
1:E:123:GLU:O	1:E:126:VAL:HB	2.14	0.47
1:F:190:GLU:OE2	1:F:209:ARG:HD3	2.15	0.47
1:I:123:GLU:O	1:I:126:VAL:HB	2.14	0.47
1:J:190:GLU:OE2	1:J:209:ARG:HD3	2.15	0.47
1:N:190:GLU:OE2	1:N:209:ARG:HD3	2.15	0.47
1:O:205:ALA:O	1:O:209:ARG:HG3	2.13	0.47
1:P:130:GLU:HG2	1:P:134:ARG:NH1	2.29	0.47
1:S:190:GLU:OE2	1:S:209:ARG:HD3	2.15	0.47
1:A:130:GLU:HG2	1:A:134:ARG:NH1	2.29	0.47
1:A:190:GLU:OE2	1:A:209:ARG:HD3	2.15	0.47
1:B:93:LEU:HD11	1:G:173:VAL:HG12	1.91	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:186:ALA:HB1	1:C:209:ARG:HG2	1.97	0.47
1:F:123:GLU:O	1:F:126:VAL:HB	2.14	0.47
1:J:205:ALA:O	1:J:209:ARG:HG3	2.13	0.47
1:K:186:ALA:HB1	1:K:209:ARG:HG2	1.97	0.47
1:N:186:ALA:HB1	1:N:209:ARG:HG2	1.97	0.47
1:U:205:ALA:O	1:U:209:ARG:HG3	2.13	0.47
1:V:133:LEU:HD13	1:V:192:ILE:HD11	1.94	0.47
1:X:190:GLU:OE2	1:X:209:ARG:HD3	2.15	0.47
1:Y:190:GLU:OE2	1:Y:209:ARG:HD3	2.15	0.47
1:Q:133:LEU:HD11	1:Q:192:ILE:HD11	1.96	0.47
1:Q:173:VAL:HG21	1:H:96:VAL:HG12	1.91	0.47
1:A:123:GLU:O	1:A:126:VAL:HB	2.14	0.47
1:A:186:ALA:HB1	1:A:209:ARG:HG2	1.97	0.47
1:E:96:VAL:HG12	1:J:173:VAL:HG21	1.92	0.47
1:G:186:ALA:HB1	1:G:209:ARG:HG2	1.97	0.47
1:I:133:LEU:HD11	1:I:192:ILE:HD11	1.96	0.47
1:M:96:VAL:HG12	1:S:173:VAL:HG21	1.92	0.47
1:O:123:GLU:O	1:O:126:VAL:HB	2.14	0.47
1:P:186:ALA:HB1	1:P:209:ARG:HG2	1.97	0.47
1:T:123:GLU:O	1:T:126:VAL:HB	2.14	0.47
1:Z:62:LEU:HD11	1:Z:120:ARG:HG3	1.90	0.47
1:Z:186:ALA:HB1	1:Z:209:ARG:HG2	1.97	0.47
1:B:96:VAL:HG12	1:G:173:VAL:HG21	1.91	0.47
1:F:42:ALA:HB2	1:F:71:VAL:CG1	2.40	0.47
1:I:42:ALA:CB	1:I:71:VAL:HG11	2.38	0.47
1:I:190:GLU:OE2	1:I:209:ARG:HD3	2.15	0.47
1:M:136:ALA:CB	1:M:145:LEU:HD23	2.45	0.47
1:O:190:GLU:OE2	1:O:209:ARG:HD3	2.14	0.47
1:R:123:GLU:O	1:R:126:VAL:HB	2.14	0.47
1:S:123:GLU:O	1:S:126:VAL:HB	2.14	0.47
1:U:62:LEU:HD11	1:U:120:ARG:HG3	1.90	0.47
1:U:186:ALA:HB1	1:U:209:ARG:HG2	1.97	0.47
1:V:136:ALA:CB	1:V:145:LEU:HD23	2.45	0.47
1:X:186:ALA:HB1	1:X:209:ARG:HG2	1.97	0.47
1:Z:130:GLU:HG2	1:Z:134:ARG:NH1	2.29	0.47
1:Q:173:VAL:CG1	1:H:93:LEU:HD11	2.32	0.47
1:Q:186:ALA:HB1	1:Q:209:ARG:HG2	1.97	0.47
1:A:133:LEU:HD13	1:A:192:ILE:HD11	1.94	0.47
1:A:136:ALA:CB	1:A:145:LEU:HD23	2.45	0.47
1:B:133:LEU:HD11	1:B:192:ILE:HD11	1.96	0.47
1:E:186:ALA:HB1	1:E:209:ARG:HG2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:106:LEU:HD12	1:G:118:ALA:HB1	1.95	0.47
1:G:190:GLU:OE2	1:G:209:ARG:HD3	2.15	0.47
1:H:123:GLU:O	1:H:126:VAL:HB	2.14	0.47
1:H:133:LEU:HD11	1:H:192:ILE:HD11	1.96	0.47
1:H:186:ALA:HB1	1:H:209:ARG:HG2	1.97	0.47
1:J:42:ALA:HB2	1:J:71:VAL:CG1	2.40	0.47
1:J:136:ALA:CB	1:J:145:LEU:HD23	2.45	0.47
1:L:42:ALA:CB	1:L:71:VAL:HG11	2.38	0.47
1:L:186:ALA:HB1	1:L:209:ARG:HG2	1.97	0.47
1:N:130:GLU:HG2	1:N:134:ARG:NH1	2.29	0.47
1:O:62:LEU:HD11	1:O:120:ARG:HG3	1.90	0.47
1:O:186:ALA:HB1	1:O:209:ARG:HG2	1.97	0.47
1:R:93:LEU:HD11	1:W:173:VAL:HG12	1.91	0.47
1:R:136:ALA:CB	1:R:145:LEU:HD23	2.45	0.47
1:S:186:ALA:HB1	1:S:209:ARG:HG2	1.97	0.47
1:T:130:GLU:HG2	1:T:134:ARG:NH1	2.29	0.47
1:T:136:ALA:CB	1:T:145:LEU:HD23	2.45	0.47
1:T:186:ALA:HB1	1:T:209:ARG:HG2	1.97	0.47
1:V:186:ALA:HB1	1:V:209:ARG:HG2	1.97	0.47
1:X:123:GLU:O	1:X:126:VAL:HB	2.14	0.47
1:X:133:LEU:HD13	1:X:192:ILE:HD11	1.95	0.47
1:Y:133:LEU:HD11	1:Y:192:ILE:HD11	1.96	0.47
1:Y:186:ALA:HB1	1:Y:209:ARG:HG2	1.97	0.47
1:Z:190:GLU:OE2	1:Z:209:ARG:HD3	2.15	0.47
1:Q:136:ALA:CB	1:Q:145:LEU:HD23	2.45	0.47
1:A:114:ASP:OD2	1:A:117:VAL:HG21	2.15	0.47
1:B:186:ALA:HB1	1:B:209:ARG:HG2	1.97	0.47
1:D:133:LEU:HD11	1:D:192:ILE:HD11	1.96	0.47
1:F:8:VAL:CG1	1:F:67:LEU:HD13	2.45	0.47
1:F:130:GLU:HG2	1:F:134:ARG:NH1	2.29	0.47
1:F:133:LEU:HD11	1:F:192:ILE:HD11	1.96	0.47
1:F:136:ALA:CB	1:F:145:LEU:HD23	2.45	0.47
1:F:186:ALA:HB1	1:F:209:ARG:HG2	1.97	0.47
1:H:130:GLU:HG2	1:H:134:ARG:NH1	2.29	0.47
1:I:186:ALA:HB1	1:I:209:ARG:HG2	1.97	0.47
1:L:67:LEU:O	1:L:71:VAL:HG23	2.15	0.47
1:M:67:LEU:O	1:M:71:VAL:HG23	2.15	0.47
1:P:67:LEU:O	1:P:71:VAL:HG23	2.15	0.47
1:R:190:GLU:OE2	1:R:209:ARG:HD3	2.15	0.47
1:Z:136:ALA:CB	1:Z:145:LEU:HD23	2.45	0.47
1:Q:8:VAL:CG1	1:Q:67:LEU:HD13	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:67:LEU:O	1:A:71:VAL:HG23	2.15	0.47
1:B:12:VAL:HG11	1:B:70:ARG:NE	2.30	0.47
1:C:123:GLU:O	1:C:126:VAL:HB	2.14	0.47
1:C:136:ALA:CB	1:C:145:LEU:HD23	2.45	0.47
1:D:190:GLU:OE2	1:D:209:ARG:HD3	2.15	0.47
1:E:114:ASP:OD2	1:E:117:VAL:HG21	2.15	0.47
1:G:93:LEU:HD11	1:L:173:VAL:CG1	2.32	0.47
1:G:123:GLU:O	1:G:126:VAL:HB	2.14	0.47
1:I:8:VAL:CG1	1:I:67:LEU:HD13	2.45	0.47
1:I:136:ALA:CB	1:I:145:LEU:HD23	2.45	0.47
1:J:186:ALA:HB1	1:J:209:ARG:HG2	1.97	0.47
1:R:133:LEU:HD11	1:R:192:ILE:HD11	1.96	0.47
1:S:136:ALA:CB	1:S:145:LEU:HD23	2.45	0.47
1:U:8:VAL:CG1	1:U:67:LEU:HD13	2.45	0.47
1:U:136:ALA:CB	1:U:145:LEU:HD23	2.45	0.47
1:U:190:GLU:OE2	1:U:209:ARG:HD3	2.15	0.47
1:W:186:ALA:HB1	1:W:209:ARG:HG2	1.97	0.47
1:X:67:LEU:O	1:X:71:VAL:HG23	2.15	0.47
1:X:114:ASP:OD2	1:X:117:VAL:HG21	2.15	0.47
1:Y:42:ALA:HB2	1:Y:71:VAL:CG1	2.40	0.47
1:B:8:VAL:CG1	1:B:67:LEU:HD13	2.45	0.47
1:B:136:ALA:CB	1:B:145:LEU:HD23	2.45	0.47
1:C:12:VAL:HG11	1:C:70:ARG:NE	2.30	0.47
1:E:136:ALA:CB	1:E:145:LEU:HD23	2.45	0.47
1:K:163:LEU:HD23	1:K:163:LEU:C	2.36	0.47
1:L:12:VAL:HG11	1:L:70:ARG:NE	2.30	0.47
1:M:133:LEU:HD11	1:M:192:ILE:HD11	1.96	0.47
1:N:136:ALA:CB	1:N:145:LEU:HD23	2.45	0.47
1:O:67:LEU:O	1:O:71:VAL:HG23	2.15	0.47
1:P:123:GLU:O	1:P:126:VAL:HB	2.14	0.47
1:R:186:ALA:HB1	1:R:209:ARG:HG2	1.97	0.47
1:T:114:ASP:OD2	1:T:117:VAL:HG21	2.15	0.47
1:U:12:VAL:HG11	1:U:70:ARG:NE	2.30	0.47
1:U:163:LEU:HD23	1:U:163:LEU:C	2.36	0.47
1:V:130:GLU:HG2	1:V:134:ARG:NH1	2.29	0.47
1:W:67:LEU:O	1:W:71:VAL:HG23	2.15	0.47
1:W:136:ALA:CB	1:W:145:LEU:HD23	2.45	0.47
1:Y:12:VAL:HG11	1:Y:70:ARG:NE	2.30	0.47
1:B:163:LEU:HD23	1:B:163:LEU:C	2.36	0.46
1:D:186:ALA:HB1	1:D:209:ARG:HG2	1.97	0.46
1:E:8:VAL:CG1	1:E:67:LEU:HD13	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:12:VAL:HG11	1:F:70:ARG:NE	2.30	0.46
1:F:114:ASP:OD2	1:F:117:VAL:HG21	2.15	0.46
1:G:136:ALA:CB	1:G:145:LEU:HD23	2.45	0.46
1:G:163:LEU:C	1:G:163:LEU:HD23	2.36	0.46
1:H:8:VAL:CG1	1:H:67:LEU:HD13	2.45	0.46
1:H:12:VAL:HG11	1:H:70:ARG:NE	2.30	0.46
1:J:8:VAL:CG1	1:J:67:LEU:HD13	2.45	0.46
1:J:123:GLU:O	1:J:126:VAL:HB	2.14	0.46
1:K:67:LEU:O	1:K:71:VAL:HG23	2.15	0.46
1:L:8:VAL:CG1	1:L:67:LEU:HD13	2.45	0.46
1:L:123:GLU:O	1:L:126:VAL:HB	2.14	0.46
1:N:12:VAL:HG11	1:N:70:ARG:NE	2.30	0.46
1:N:114:ASP:OD2	1:N:117:VAL:HG21	2.15	0.46
1:N:123:GLU:O	1:N:126:VAL:HB	2.14	0.46
1:O:42:ALA:CB	1:O:71:VAL:HG11	2.38	0.46
1:O:163:LEU:C	1:O:163:LEU:HD23	2.36	0.46
1:P:136:ALA:CB	1:P:145:LEU:HD23	2.45	0.46
1:Y:8:VAL:CG1	1:Y:67:LEU:HD13	2.45	0.46
1:Z:123:GLU:O	1:Z:126:VAL:HB	2.14	0.46
1:Z:163:LEU:C	1:Z:163:LEU:HD23	2.36	0.46
1:A:12:VAL:HG11	1:A:70:ARG:NE	2.30	0.46
1:D:8:VAL:CG1	1:D:67:LEU:HD13	2.45	0.46
1:D:79:ALA:HB1	1:D:88:LEU:HD23	1.89	0.46
1:E:67:LEU:O	1:E:71:VAL:HG23	2.15	0.46
1:E:190:GLU:OE2	1:E:209:ARG:HD3	2.15	0.46
1:I:42:ALA:HB2	1:I:71:VAL:CG1	2.40	0.46
1:J:67:LEU:O	1:J:71:VAL:HG23	2.15	0.46
1:M:186:ALA:HB1	1:M:209:ARG:HG2	1.97	0.46
1:P:8:VAL:CG1	1:P:67:LEU:HD13	2.45	0.46
1:P:12:VAL:HG11	1:P:70:ARG:NE	2.30	0.46
1:R:12:VAL:HG11	1:R:70:ARG:NE	2.30	0.46
1:S:62:LEU:HD11	1:S:120:ARG:HG3	1.90	0.46
1:U:67:LEU:O	1:U:71:VAL:HG23	2.15	0.46
1:X:12:VAL:HG11	1:X:70:ARG:NE	2.30	0.46
1:Y:136:ALA:CB	1:Y:145:LEU:HD23	2.45	0.46
1:Z:12:VAL:HG11	1:Z:70:ARG:NE	2.30	0.46
1:Q:21:LEU:CD2	1:I:107:VAL:HG11	2.46	0.46
1:Q:67:LEU:O	1:Q:71:VAL:HG23	2.15	0.46
1:A:8:VAL:CG1	1:A:67:LEU:HD13	2.45	0.46
1:B:107:VAL:HG11	1:F:21:LEU:CD2	2.46	0.46
1:C:190:GLU:OE2	1:C:209:ARG:HD3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:133:LEU:HD11	1:E:192:ILE:HD11	1.96	0.46
1:G:67:LEU:O	1:G:71:VAL:HG23	2.15	0.46
1:G:107:VAL:HG11	1:K:21:LEU:CD2	2.46	0.46
1:H:107:VAL:HG11	1:L:21:LEU:CD2	2.46	0.46
1:I:114:ASP:OD2	1:I:117:VAL:HG21	2.15	0.46
1:J:12:VAL:HG11	1:J:70:ARG:NE	2.30	0.46
1:K:8:VAL:CG1	1:K:67:LEU:HD13	2.45	0.46
1:K:123:GLU:O	1:K:126:VAL:HB	2.14	0.46
1:K:136:ALA:CB	1:K:145:LEU:HD23	2.45	0.46
1:L:107:VAL:HG11	1:O:21:LEU:CD2	2.46	0.46
1:L:163:LEU:HD23	1:L:163:LEU:C	2.36	0.46
1:M:8:VAL:CG1	1:M:67:LEU:HD13	2.45	0.46
1:M:107:VAL:HG11	1:R:21:LEU:CD2	2.46	0.46
1:S:156:ALA:HB2	1:S:185:VAL:HG11	1.97	0.46
1:U:133:LEU:HD11	1:U:192:ILE:HD11	1.96	0.46
1:V:190:GLU:OE2	1:V:209:ARG:HD3	2.15	0.46
1:Y:114:ASP:OD2	1:Y:117:VAL:HG21	2.15	0.46
1:Q:107:VAL:HG11	1:P:21:LEU:CD2	2.46	0.46
1:A:42:ALA:CB	1:A:71:VAL:HG11	2.38	0.46
1:D:136:ALA:CB	1:D:145:LEU:HD23	2.45	0.46
1:E:156:ALA:HB2	1:E:185:VAL:HG11	1.97	0.46
1:F:163:LEU:HD23	1:F:163:LEU:C	2.36	0.46
1:H:190:GLU:OE2	1:H:209:ARG:HD3	2.15	0.46
1:I:12:VAL:HG11	1:I:70:ARG:NE	2.30	0.46
1:J:107:VAL:HG11	1:M:21:LEU:CD2	2.46	0.46
1:L:42:ALA:HB2	1:L:71:VAL:CG1	2.40	0.46
1:L:136:ALA:CB	1:L:145:LEU:HD23	2.45	0.46
1:M:163:LEU:HD23	1:M:163:LEU:C	2.36	0.46
1:M:190:GLU:OE2	1:M:209:ARG:HD3	2.15	0.46
1:N:8:VAL:CG1	1:N:67:LEU:HD13	2.45	0.46
1:N:67:LEU:O	1:N:71:VAL:HG23	2.15	0.46
1:N:107:VAL:HG11	1:S:21:LEU:CD2	2.46	0.46
1:O:12:VAL:HG11	1:O:70:ARG:NE	2.30	0.46
1:P:133:LEU:HD11	1:P:192:ILE:HD11	1.96	0.46
1:P:190:GLU:OE2	1:P:209:ARG:HD3	2.15	0.46
1:R:8:VAL:CG1	1:R:67:LEU:HD13	2.45	0.46
1:S:93:LEU:HD11	1:X:173:VAL:HG12	1.91	0.46
1:U:93:LEU:HD11	1:Z:173:VAL:HG12	1.91	0.46
1:V:8:VAL:CG1	1:V:67:LEU:HD13	2.45	0.46
1:V:67:LEU:O	1:V:71:VAL:HG23	2.15	0.46
1:X:136:ALA:CB	1:X:145:LEU:HD23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:8:VAL:CG1	1:Z:67:LEU:HD13	2.45	0.46
1:A:133:LEU:HD11	1:A:192:ILE:HD11	1.96	0.46
1:A:156:ALA:HB2	1:A:185:VAL:HG11	1.97	0.46
1:D:67:LEU:O	1:D:71:VAL:HG23	2.15	0.46
1:E:42:ALA:CB	1:E:71:VAL:HG11	2.38	0.46
1:G:133:LEU:HD11	1:G:192:ILE:HD11	1.96	0.46
1:J:114:ASP:OD2	1:J:117:VAL:HG21	2.15	0.46
1:K:107:VAL:HG11	1:N:21:LEU:CD2	2.46	0.46
1:N:156:ALA:HB2	1:N:185:VAL:HG11	1.97	0.46
1:O:114:ASP:OD2	1:O:117:VAL:HG21	2.15	0.46
1:R:163:LEU:C	1:R:163:LEU:HD23	2.36	0.46
1:T:106:LEU:HD12	1:T:118:ALA:HB1	1.95	0.46
1:V:12:VAL:HG11	1:V:70:ARG:NE	2.30	0.46
1:V:106:LEU:HD12	1:V:118:ALA:HB1	1.95	0.46
1:X:133:LEU:HD11	1:X:192:ILE:HD11	1.96	0.46
1:X:156:ALA:HB2	1:X:185:VAL:HG11	1.97	0.46
1:Q:190:GLU:OE2	1:Q:209:ARG:HD3	2.14	0.46
1:B:114:ASP:OD2	1:B:117:VAL:HG21	2.15	0.46
1:C:67:LEU:O	1:C:71:VAL:HG23	2.15	0.46
1:C:96:VAL:HG12	1:H:173:VAL:HG21	1.91	0.46
1:C:107:VAL:HG11	1:G:21:LEU:CD2	2.46	0.46
1:G:12:VAL:HG11	1:G:70:ARG:NE	2.30	0.46
1:H:42:ALA:CB	1:H:71:VAL:HG11	2.38	0.46
1:H:67:LEU:O	1:H:71:VAL:HG23	2.15	0.46
1:J:156:ALA:HB2	1:J:185:VAL:HG11	1.97	0.46
1:K:190:GLU:OE2	1:K:209:ARG:HD3	2.15	0.46
1:L:133:LEU:HD11	1:L:192:ILE:HD11	1.96	0.46
1:P:93:LEU:HD11	1:V:173:VAL:HG12	1.91	0.46
1:R:49:LEU:O	1:R:52:ALA:N	2.48	0.46
1:R:67:LEU:O	1:R:71:VAL:HG23	2.15	0.46
1:R:107:VAL:HG11	1:V:21:LEU:CD2	2.46	0.46
1:S:8:VAL:CG1	1:S:67:LEU:HD13	2.45	0.46
1:S:12:VAL:HG11	1:S:70:ARG:NE	2.30	0.46
1:T:133:LEU:HD11	1:T:192:ILE:HD11	1.96	0.46
1:T:190:GLU:OE2	1:T:209:ARG:HD3	2.15	0.46
1:Q:106:LEU:HD12	1:Q:118:ALA:HB1	1.95	0.46
1:D:106:LEU:HD12	1:D:118:ALA:HB1	1.95	0.46
1:E:107:VAL:HG11	1:I:21:LEU:CD2	2.46	0.46
1:F:107:VAL:HG11	1:J:21:LEU:CD2	2.46	0.46
1:F:156:ALA:HB2	1:F:185:VAL:HG11	1.97	0.46
1:G:8:VAL:CG1	1:G:67:LEU:HD13	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:136:ALA:CB	1:H:145:LEU:HD23	2.45	0.46
1:I:89:MET:HG2	1:M:180:MET:HE3	1.71	0.46
1:I:96:VAL:HG12	1:M:173:VAL:HG21	1.91	0.46
1:J:133:LEU:HD11	1:J:192:ILE:HD11	1.96	0.46
1:L:190:GLU:OE2	1:L:209:ARG:HD3	2.15	0.46
1:M:114:ASP:OD2	1:M:117:VAL:HG21	2.15	0.46
1:P:163:LEU:HD23	1:P:163:LEU:C	2.36	0.46
1:S:107:VAL:HG11	1:W:21:LEU:CD2	2.46	0.46
1:S:114:ASP:OD2	1:S:117:VAL:HG21	2.15	0.46
1:S:163:LEU:HD23	1:S:163:LEU:C	2.36	0.46
1:T:67:LEU:O	1:T:71:VAL:HG23	2.15	0.46
1:V:42:ALA:CB	1:V:71:VAL:HG11	2.38	0.46
1:W:190:GLU:OE2	1:W:209:ARG:HD3	2.14	0.46
1:Y:163:LEU:HD23	1:Y:163:LEU:C	2.36	0.46
1:Z:67:LEU:O	1:Z:71:VAL:HG23	2.15	0.46
1:Q:42:ALA:CB	1:Q:71:VAL:HG11	2.38	0.46
1:B:190:GLU:OE2	1:B:209:ARG:HD3	2.15	0.46
1:C:8:VAL:CG1	1:C:67:LEU:HD13	2.45	0.46
1:G:89:MET:HG2	1:L:180:MET:HE3	1.66	0.46
1:H:156:ALA:HB2	1:H:185:VAL:HG11	1.97	0.46
1:I:49:LEU:O	1:I:52:ALA:N	2.48	0.46
1:I:93:LEU:HD11	1:M:173:VAL:CG1	2.32	0.46
1:K:12:VAL:HG11	1:K:70:ARG:NE	2.30	0.46
1:L:156:ALA:HB2	1:L:185:VAL:HG11	1.97	0.46
1:M:89:MET:HG2	1:S:180:MET:HE3	1.65	0.46
1:O:107:VAL:HG11	1:T:21:LEU:CD2	2.46	0.46
1:P:107:VAL:HG11	1:U:21:LEU:CD2	2.46	0.46
1:S:67:LEU:O	1:S:71:VAL:HG23	2.15	0.46
1:T:107:VAL:HG11	1:X:21:LEU:CD2	2.46	0.46
1:V:114:ASP:OD2	1:V:117:VAL:HG21	2.15	0.46
1:W:12:VAL:HG11	1:W:70:ARG:NE	2.30	0.46
1:X:8:VAL:CG1	1:X:67:LEU:HD13	2.45	0.46
1:Q:114:ASP:OD2	1:Q:117:VAL:HG21	2.15	0.46
1:C:114:ASP:OD2	1:C:117:VAL:HG21	2.15	0.46
1:C:163:LEU:HD23	1:C:163:LEU:C	2.36	0.46
1:D:62:LEU:HD11	1:D:120:ARG:CB	2.46	0.46
1:D:107:VAL:HG11	1:H:21:LEU:CD2	2.46	0.46
1:H:42:ALA:HB2	1:H:71:VAL:CG1	2.40	0.46
1:I:62:LEU:HD11	1:I:120:ARG:CB	2.46	0.46
1:I:163:LEU:HD23	1:I:163:LEU:C	2.36	0.46
1:J:163:LEU:C	1:J:163:LEU:HD23	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:62:LEU:HD11	1:M:120:ARG:CB	2.46	0.46
1:O:49:LEU:O	1:O:52:ALA:N	2.48	0.46
1:S:89:MET:HG2	1:X:180:MET:HE3	1.65	0.46
1:T:156:ALA:HB2	1:T:185:VAL:HG11	1.97	0.46
1:V:79:ALA:HB1	1:V:88:LEU:HD23	1.89	0.46
1:V:133:LEU:HD11	1:V:192:ILE:HD11	1.96	0.46
1:W:114:ASP:OD2	1:W:117:VAL:HG21	2.15	0.46
1:W:133:LEU:HD11	1:W:192:ILE:HD11	1.96	0.46
1:W:156:ALA:HB2	1:W:185:VAL:HG11	1.97	0.46
1:W:163:LEU:C	1:W:163:LEU:HD23	2.36	0.46
1:Y:79:ALA:HB1	1:Y:88:LEU:HD23	1.89	0.46
1:Z:133:LEU:HD11	1:Z:192:ILE:HD11	1.96	0.46
1:Q:12:VAL:HG11	1:Q:70:ARG:NE	2.30	0.46
1:Q:163:LEU:HD23	1:Q:163:LEU:C	2.36	0.46
1:C:49:LEU:O	1:C:52:ALA:N	2.48	0.46
1:C:133:LEU:HD11	1:C:192:ILE:HD11	1.96	0.46
1:D:114:ASP:OD2	1:D:117:VAL:HG21	2.15	0.46
1:K:106:LEU:HD12	1:K:118:ALA:HB1	1.95	0.46
1:K:114:ASP:OD2	1:K:117:VAL:HG21	2.15	0.46
1:L:114:ASP:OD2	1:L:117:VAL:HG21	2.15	0.46
1:O:133:LEU:HD11	1:O:192:ILE:HD11	1.96	0.46
1:P:156:ALA:HB2	1:P:185:VAL:HG11	1.97	0.46
1:S:62:LEU:HD11	1:S:120:ARG:CB	2.46	0.46
1:T:8:VAL:CG1	1:T:67:LEU:HD13	2.45	0.46
1:U:107:VAL:HG11	1:Y:21:LEU:CD2	2.46	0.46
1:U:114:ASP:OD2	1:U:117:VAL:HG21	2.15	0.46
1:W:8:VAL:CG1	1:W:67:LEU:HD13	2.45	0.46
1:Q:79:ALA:HB1	1:Q:88:LEU:HD23	1.89	0.45
1:A:107:VAL:HG11	1:E:21:LEU:CD2	2.46	0.45
1:A:163:LEU:HD23	1:A:163:LEU:C	2.36	0.45
1:C:42:ALA:CB	1:C:71:VAL:HG11	2.38	0.45
1:E:163:LEU:HD23	1:E:163:LEU:C	2.36	0.45
1:F:67:LEU:O	1:F:71:VAL:HG23	2.15	0.45
1:I:156:ALA:HB2	1:I:185:VAL:HG11	1.97	0.45
1:M:12:VAL:HG11	1:M:70:ARG:NE	2.30	0.45
1:M:156:ALA:HB2	1:M:185:VAL:HG11	1.97	0.45
1:O:8:VAL:CG1	1:O:67:LEU:HD13	2.45	0.45
1:T:12:VAL:HG11	1:T:70:ARG:NE	2.30	0.45
1:T:163:LEU:HD23	1:T:163:LEU:C	2.36	0.45
1:Q:156:ALA:HB2	1:Q:185:VAL:HG11	1.97	0.45
1:B:67:LEU:O	1:B:71:VAL:HG23	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:12:VAL:HG11	1:E:70:ARG:NE	2.30	0.45
1:F:89:MET:HG2	1:K:180:MET:HE3	1.66	0.45
1:H:114:ASP:OD2	1:H:117:VAL:HG21	2.15	0.45
1:K:156:ALA:HB2	1:K:185:VAL:HG11	1.98	0.45
1:L:49:LEU:O	1:L:52:ALA:N	2.48	0.45
1:V:107:VAL:HG11	1:Z:21:LEU:CD2	2.46	0.45
1:X:49:LEU:O	1:X:52:ALA:N	2.48	0.45
1:Y:156:ALA:HB2	1:Y:185:VAL:HG11	1.97	0.45
1:A:62:LEU:HD11	1:A:120:ARG:CB	2.46	0.45
1:D:42:ALA:CB	1:D:71:VAL:HG11	2.38	0.45
1:N:93:LEU:HD11	1:T:173:VAL:CG1	2.32	0.45
1:N:163:LEU:HD23	1:N:163:LEU:C	2.36	0.45
1:S:133:LEU:HD11	1:S:192:ILE:HD11	1.96	0.45
1:W:62:LEU:HD11	1:W:120:ARG:CB	2.46	0.45
1:X:62:LEU:HD11	1:X:120:ARG:CB	2.46	0.45
1:E:161:ARG:NE	1:I:24:ILE:CG2	2.80	0.45
1:G:49:LEU:O	1:G:52:ALA:N	2.48	0.45
1:H:163:LEU:HD23	1:H:163:LEU:C	2.36	0.45
1:J:161:ARG:NE	1:M:24:ILE:CG2	2.80	0.45
1:R:62:LEU:HD11	1:R:120:ARG:CB	2.46	0.45
1:V:163:LEU:HD23	1:V:163:LEU:C	2.36	0.45
1:Y:19:LEU:HD13	1:Y:78:ILE:HG12	1.99	0.45
1:Q:24:ILE:CG2	1:I:161:ARG:NE	2.80	0.45
1:Q:89:MET:HG2	1:R:180:MET:HE3	1.70	0.45
1:B:156:ALA:HB2	1:B:185:VAL:HG11	1.97	0.45
1:D:12:VAL:HG11	1:D:70:ARG:NE	2.30	0.45
1:E:42:ALA:HB2	1:E:71:VAL:CG1	2.40	0.45
1:F:161:ARG:NE	1:J:24:ILE:CG2	2.80	0.45
1:G:156:ALA:HB2	1:G:185:VAL:HG11	1.97	0.45
1:I:67:LEU:O	1:I:71:VAL:HG23	2.15	0.45
1:N:49:LEU:O	1:N:52:ALA:N	2.48	0.45
1:O:19:LEU:HD13	1:O:78:ILE:HG12	1.99	0.45
1:O:42:ALA:HB2	1:O:71:VAL:CG1	2.40	0.45
1:O:136:ALA:CB	1:O:145:LEU:HD23	2.45	0.45
1:P:114:ASP:OD2	1:P:117:VAL:HG21	2.15	0.45
1:S:49:LEU:O	1:S:52:ALA:N	2.48	0.45
1:V:62:LEU:HD11	1:V:120:ARG:CB	2.46	0.45
1:W:19:LEU:HD13	1:W:78:ILE:HG12	1.99	0.45
1:Q:19:LEU:HD13	1:Q:78:ILE:HG12	1.99	0.45
1:B:106:LEU:HD12	1:B:118:ALA:HB1	1.95	0.45
1:C:156:ALA:HB2	1:C:185:VAL:HG11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:161:ARG:HD3	1:G:24:ILE:CD1	2.47	0.45
1:D:19:LEU:HD13	1:D:78:ILE:HG12	1.99	0.45
1:D:163:LEU:C	1:D:163:LEU:HD23	2.36	0.45
1:F:19:LEU:HD13	1:F:78:ILE:HG12	1.99	0.45
1:F:49:LEU:O	1:F:52:ALA:N	2.48	0.45
1:F:62:LEU:HD11	1:F:120:ARG:CB	2.46	0.45
1:G:19:LEU:HD13	1:G:78:ILE:HG12	1.99	0.45
1:I:19:LEU:HD13	1:I:78:ILE:HG12	1.99	0.45
1:N:19:LEU:HD13	1:N:78:ILE:HG12	1.99	0.45
1:N:133:LEU:HD11	1:N:192:ILE:HD11	1.96	0.45
1:R:114:ASP:OD2	1:R:117:VAL:HG21	2.15	0.45
1:T:93:LEU:HD11	1:Y:173:VAL:HG12	1.91	0.45
1:U:19:LEU:HD13	1:U:78:ILE:HG12	1.99	0.45
1:A:19:LEU:HD13	1:A:78:ILE:HG12	1.99	0.45
1:B:19:LEU:HD13	1:B:78:ILE:HG12	1.99	0.45
1:C:19:LEU:HD13	1:C:78:ILE:HG12	1.99	0.45
1:G:161:ARG:HD3	1:K:24:ILE:CD1	2.47	0.45
1:H:19:LEU:HD13	1:H:78:ILE:HG12	1.99	0.45
1:J:206:GLU:HA	1:J:209:ARG:HH21	1.82	0.45
1:K:19:LEU:HD13	1:K:78:ILE:HG12	1.99	0.45
1:K:161:ARG:NE	1:N:24:ILE:CG2	2.80	0.45
1:K:161:ARG:HD3	1:N:24:ILE:CD1	2.47	0.45
1:L:19:LEU:HD13	1:L:78:ILE:HG12	1.99	0.45
1:M:19:LEU:HD13	1:M:78:ILE:HG12	1.99	0.45
1:M:206:GLU:HA	1:M:209:ARG:HH21	1.82	0.45
1:N:206:GLU:HA	1:N:209:ARG:HH21	1.82	0.45
1:O:156:ALA:HB2	1:O:185:VAL:HG11	1.97	0.45
1:O:161:ARG:HD3	1:T:24:ILE:CD1	2.47	0.45
1:R:19:LEU:HD13	1:R:78:ILE:HG12	1.99	0.45
1:T:42:ALA:CB	1:T:71:VAL:HG11	2.38	0.45
1:T:206:GLU:HA	1:T:209:ARG:HH21	1.82	0.45
1:U:49:LEU:O	1:U:52:ALA:N	2.48	0.45
1:V:19:LEU:HD13	1:V:78:ILE:HG12	1.99	0.45
1:X:19:LEU:HD13	1:X:78:ILE:HG12	1.99	0.45
1:X:163:LEU:HD23	1:X:163:LEU:C	2.36	0.45
1:Y:67:LEU:O	1:Y:71:VAL:HG23	2.15	0.45
1:A:161:ARG:NE	1:E:24:ILE:CG2	2.80	0.45
1:B:161:ARG:HD3	1:F:24:ILE:CD1	2.47	0.45
1:D:161:ARG:NE	1:H:24:ILE:CG2	2.80	0.45
1:E:19:LEU:HD13	1:E:78:ILE:HG12	1.99	0.45
1:G:114:ASP:OD2	1:G:117:VAL:HG21	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:62:LEU:HD11	1:O:120:ARG:CB	2.46	0.45
1:P:19:LEU:HD13	1:P:78:ILE:HG12	1.99	0.45
1:T:19:LEU:HD13	1:T:78:ILE:HG12	1.99	0.45
1:U:93:LEU:HD11	1:Z:173:VAL:CG1	2.32	0.45
1:U:206:GLU:HA	1:U:209:ARG:HH21	1.82	0.45
1:A:42:ALA:HB2	1:A:71:VAL:CG1	2.40	0.45
1:E:200:GLU:O	1:E:203:GLU:N	2.50	0.45
1:I:206:GLU:HA	1:I:209:ARG:HH21	1.82	0.45
1:J:19:LEU:HD13	1:J:78:ILE:HG12	1.99	0.45
1:J:49:LEU:O	1:J:52:ALA:N	2.48	0.45
1:K:62:LEU:HD11	1:K:120:ARG:CB	2.46	0.45
1:K:133:LEU:HD11	1:K:192:ILE:HD11	1.96	0.45
1:O:206:GLU:HA	1:O:209:ARG:HH21	1.82	0.45
1:R:156:ALA:HB2	1:R:185:VAL:HG11	1.97	0.45
1:S:19:LEU:HD13	1:S:78:ILE:HG12	1.99	0.45
1:S:20:MET:O	1:S:24:ILE:HG13	2.17	0.45
1:S:206:GLU:HA	1:S:209:ARG:HH21	1.82	0.45
1:U:156:ALA:HB2	1:U:185:VAL:HG11	1.97	0.45
1:W:200:GLU:O	1:W:203:GLU:N	2.50	0.45
1:Z:19:LEU:HD13	1:Z:78:ILE:HG12	1.99	0.45
1:Z:156:ALA:HB2	1:Z:185:VAL:HG11	1.97	0.45
1:Q:93:LEU:HD11	1:R:173:VAL:HG12	1.91	0.45
1:D:156:ALA:HB2	1:D:185:VAL:HG11	1.97	0.45
1:H:161:ARG:HD3	1:L:24:ILE:CD1	2.47	0.45
1:L:62:LEU:HD11	1:L:120:ARG:CB	2.46	0.45
1:L:161:ARG:HD3	1:O:24:ILE:CD1	2.47	0.45
1:M:200:GLU:O	1:M:203:GLU:N	2.50	0.45
1:N:20:MET:O	1:N:24:ILE:HG13	2.17	0.45
1:P:62:LEU:HD11	1:P:120:ARG:CB	2.46	0.45
1:T:161:ARG:HD3	1:X:24:ILE:CD1	2.47	0.45
1:Y:206:GLU:HA	1:Y:209:ARG:HH21	1.82	0.45
1:Z:114:ASP:OD2	1:Z:117:VAL:HG21	2.15	0.45
1:D:206:GLU:HA	1:D:209:ARG:HH21	1.82	0.44
1:G:62:LEU:HD11	1:G:120:ARG:CB	2.46	0.44
1:H:20:MET:O	1:H:24:ILE:HG13	2.17	0.44
1:H:49:LEU:O	1:H:52:ALA:N	2.48	0.44
1:K:206:GLU:HA	1:K:209:ARG:HH21	1.82	0.44
1:P:20:MET:O	1:P:24:ILE:HG13	2.17	0.44
1:P:49:LEU:O	1:P:52:ALA:N	2.48	0.44
1:R:89:MET:HG2	1:W:180:MET:HE3	1.70	0.44
1:V:161:ARG:HD3	1:Z:24:ILE:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:20:MET:O	1:W:24:ILE:HG13	2.17	0.44
1:X:200:GLU:O	1:X:203:GLU:N	2.50	0.44
1:Z:206:GLU:HA	1:Z:209:ARG:HH21	1.82	0.44
1:Q:116:GLU:HG2	1:Q:174:VAL:HG11	2.00	0.44
1:A:116:GLU:HG2	1:A:174:VAL:HG11	2.00	0.44
1:E:206:GLU:HA	1:E:209:ARG:HH21	1.82	0.44
1:K:20:MET:O	1:K:24:ILE:HG13	2.17	0.44
1:N:200:GLU:O	1:N:203:GLU:N	2.50	0.44
1:O:161:ARG:NE	1:T:24:ILE:CG2	2.80	0.44
1:R:42:ALA:CB	1:R:71:VAL:HG11	2.38	0.44
1:V:156:ALA:HB2	1:V:185:VAL:HG11	1.97	0.44
1:Z:49:LEU:O	1:Z:52:ALA:N	2.48	0.44
1:D:200:GLU:O	1:D:203:GLU:N	2.50	0.44
1:E:116:GLU:HG2	1:E:174:VAL:HG11	2.00	0.44
1:N:116:GLU:HG2	1:N:174:VAL:HG11	2.00	0.44
1:N:161:ARG:HD3	1:S:24:ILE:CD1	2.47	0.44
1:O:93:LEU:O	1:O:97:VAL:HG23	2.18	0.44
1:R:200:GLU:O	1:R:203:GLU:N	2.50	0.44
1:S:116:GLU:HG2	1:S:174:VAL:HG11	2.00	0.44
1:T:20:MET:O	1:T:24:ILE:HG13	2.17	0.44
1:U:62:LEU:HD11	1:U:120:ARG:CB	2.46	0.44
1:U:93:LEU:O	1:U:97:VAL:HG23	2.18	0.44
1:W:93:LEU:O	1:W:97:VAL:HG23	2.18	0.44
1:X:20:MET:O	1:X:24:ILE:HG13	2.17	0.44
1:Z:20:MET:O	1:Z:24:ILE:HG13	2.18	0.44
1:Q:161:ARG:HD3	1:P:24:ILE:CD1	2.47	0.44
1:Q:180:MET:HE3	1:H:89:MET:HG2	1.71	0.44
1:A:49:LEU:O	1:A:52:ALA:N	2.48	0.44
1:C:206:GLU:HA	1:C:209:ARG:HH21	1.82	0.44
1:D:42:ALA:HB2	1:D:71:VAL:CG1	2.40	0.44
1:D:116:GLU:HG2	1:D:174:VAL:HG11	2.00	0.44
1:I:116:GLU:HG2	1:I:174:VAL:HG11	2.00	0.44
1:M:93:LEU:HD11	1:S:173:VAL:HG12	1.91	0.44
1:P:93:LEU:O	1:P:97:VAL:HG23	2.18	0.44
1:P:161:ARG:HD3	1:U:24:ILE:CD1	2.47	0.44
1:R:93:LEU:O	1:R:97:VAL:HG23	2.18	0.44
1:V:93:LEU:O	1:V:97:VAL:HG23	2.18	0.44
1:W:49:LEU:O	1:W:52:ALA:N	2.48	0.44
1:W:116:GLU:HG2	1:W:174:VAL:HG11	2.00	0.44
1:B:62:LEU:HD11	1:B:120:ARG:CB	2.46	0.44
1:B:206:GLU:HA	1:B:209:ARG:HH21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:116:GLU:HG2	1:C:174:VAL:HG11	2.00	0.44
1:E:122:VAL:HG21	1:E:162:VAL:CG2	2.48	0.44
1:F:122:VAL:HG21	1:F:162:VAL:CG2	2.48	0.44
1:G:20:MET:O	1:G:24:ILE:HG13	2.17	0.44
1:J:116:GLU:HG2	1:J:174:VAL:HG11	2.00	0.44
1:J:122:VAL:HG21	1:J:162:VAL:CG2	2.48	0.44
1:M:122:VAL:HG21	1:M:162:VAL:CG2	2.48	0.44
1:P:42:ALA:CB	1:P:71:VAL:HG11	2.38	0.44
1:V:161:ARG:NE	1:Z:24:ILE:CG2	2.80	0.44
1:Y:122:VAL:HG21	1:Y:162:VAL:CG2	2.48	0.44
1:Z:200:GLU:O	1:Z:203:GLU:N	2.50	0.44
1:A:122:VAL:HG21	1:A:162:VAL:CG2	2.48	0.44
1:A:200:GLU:O	1:A:203:GLU:N	2.50	0.44
1:B:122:VAL:HG21	1:B:162:VAL:CG2	2.48	0.44
1:E:93:LEU:O	1:E:97:VAL:HG23	2.18	0.44
1:H:116:GLU:HG2	1:H:174:VAL:HG11	2.00	0.44
1:I:122:VAL:HG21	1:I:162:VAL:CG2	2.48	0.44
1:I:200:GLU:O	1:I:203:GLU:N	2.50	0.44
1:J:20:MET:O	1:J:24:ILE:HG13	2.17	0.44
1:K:93:LEU:O	1:K:97:VAL:HG23	2.18	0.44
1:M:20:MET:O	1:M:24:ILE:HG13	2.18	0.44
1:M:161:ARG:HD3	1:R:24:ILE:CD1	2.47	0.44
1:N:79:ALA:HB1	1:N:88:LEU:HD23	1.89	0.44
1:O:20:MET:O	1:O:24:ILE:HG13	2.17	0.44
1:P:116:GLU:HG2	1:P:174:VAL:HG11	2.00	0.44
1:R:20:MET:O	1:R:24:ILE:HG13	2.17	0.44
1:S:200:GLU:O	1:S:203:GLU:N	2.50	0.44
1:V:116:GLU:HG2	1:V:174:VAL:HG11	2.00	0.44
1:X:116:GLU:HG2	1:X:174:VAL:HG11	2.00	0.44
1:X:206:GLU:HA	1:X:209:ARG:HH21	1.82	0.44
1:Q:24:ILE:CD1	1:I:161:ARG:HD3	2.47	0.44
1:B:107:VAL:HG11	1:F:21:LEU:HD21	2.00	0.44
1:D:93:LEU:O	1:D:97:VAL:HG23	2.18	0.44
1:D:161:ARG:HD3	1:H:24:ILE:CD1	2.47	0.44
1:F:20:MET:O	1:F:24:ILE:HG13	2.18	0.44
1:F:116:GLU:HG2	1:F:174:VAL:HG11	2.00	0.44
1:F:161:ARG:HD3	1:J:24:ILE:CD1	2.47	0.44
1:F:206:GLU:HA	1:F:209:ARG:HH21	1.82	0.44
1:H:206:GLU:HA	1:H:209:ARG:HH21	1.82	0.44
1:M:116:GLU:HG2	1:M:174:VAL:HG11	2.00	0.44
1:O:200:GLU:O	1:O:203:GLU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:116:GLU:HG2	1:R:174:VAL:HG11	2.00	0.44
1:U:122:VAL:HG21	1:U:162:VAL:CG2	2.48	0.44
1:U:161:ARG:NE	1:Y:24:ILE:CG2	2.80	0.44
1:Y:116:GLU:HG2	1:Y:174:VAL:HG11	2.00	0.44
1:Z:93:LEU:O	1:Z:97:VAL:HG23	2.18	0.44
1:Q:161:ARG:NE	1:P:24:ILE:CG2	2.80	0.44
1:B:200:GLU:O	1:B:203:GLU:N	2.50	0.44
1:D:96:VAL:CB	1:I:173:VAL:CG2	2.96	0.44
1:K:116:GLU:HG2	1:K:174:VAL:HG11	2.00	0.44
1:O:107:VAL:HG11	1:T:21:LEU:HD21	2.00	0.44
1:R:122:VAL:HG21	1:R:162:VAL:CG2	2.48	0.44
1:S:161:ARG:HD3	1:W:24:ILE:CD1	2.47	0.44
1:T:116:GLU:HG2	1:T:174:VAL:HG11	2.00	0.44
1:T:122:VAL:HG21	1:T:162:VAL:CG2	2.48	0.44
1:X:42:ALA:CB	1:X:71:VAL:HG11	2.38	0.44
1:X:122:VAL:HG21	1:X:162:VAL:CG2	2.48	0.44
1:Y:49:LEU:O	1:Y:52:ALA:N	2.48	0.44
1:Z:116:GLU:HG2	1:Z:174:VAL:HG11	2.00	0.44
1:Q:206:GLU:HA	1:Q:209:ARG:HH21	1.82	0.44
1:B:20:MET:O	1:B:24:ILE:HG13	2.18	0.44
1:B:161:ARG:NE	1:F:24:ILE:CG2	2.80	0.44
1:C:93:LEU:O	1:C:97:VAL:HG23	2.18	0.44
1:C:200:GLU:O	1:C:203:GLU:N	2.50	0.44
1:D:20:MET:O	1:D:24:ILE:HG13	2.17	0.44
1:F:107:VAL:HG11	1:J:21:LEU:HD21	2.00	0.44
1:G:116:GLU:HG2	1:G:174:VAL:HG11	2.00	0.44
1:J:107:VAL:HG11	1:M:21:LEU:HD21	2.00	0.44
1:J:200:GLU:O	1:J:203:GLU:N	2.50	0.44
1:L:93:LEU:O	1:L:97:VAL:HG23	2.18	0.44
1:L:200:GLU:O	1:L:203:GLU:N	2.50	0.44
1:M:49:LEU:O	1:M:52:ALA:N	2.48	0.44
1:P:35:LEU:HD12	1:P:75:LEU:CD2	2.48	0.44
1:P:161:ARG:NE	1:U:24:ILE:CG2	2.80	0.44
1:P:200:GLU:O	1:P:203:GLU:N	2.50	0.44
1:R:79:ALA:HB1	1:R:88:LEU:HD23	1.89	0.44
1:S:161:ARG:NE	1:W:24:ILE:CG2	2.80	0.44
1:T:107:VAL:HG11	1:X:21:LEU:HD21	2.00	0.44
1:U:116:GLU:HG2	1:U:174:VAL:HG11	2.00	0.44
1:U:161:ARG:HD3	1:Y:24:ILE:CD1	2.47	0.44
1:V:206:GLU:HA	1:V:209:ARG:HH21	1.82	0.44
1:Y:62:LEU:HD11	1:Y:120:ARG:CB	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:200:GLU:O	1:Y:203:GLU:N	2.50	0.44
1:Q:93:LEU:O	1:Q:97:VAL:HG23	2.18	0.43
1:Q:122:VAL:HG21	1:Q:162:VAL:CG2	2.48	0.43
1:A:107:VAL:HG11	1:E:21:LEU:HD21	2.00	0.43
1:A:161:ARG:HD3	1:E:24:ILE:CD1	2.47	0.43
1:B:116:GLU:HG2	1:B:174:VAL:HG11	2.00	0.43
1:C:35:LEU:HD12	1:C:75:LEU:CD2	2.48	0.43
1:C:161:ARG:NE	1:G:24:ILE:CG2	2.80	0.43
1:E:161:ARG:HD3	1:I:24:ILE:CD1	2.47	0.43
1:G:161:ARG:NE	1:K:24:ILE:CG2	2.80	0.43
1:H:161:ARG:NE	1:L:24:ILE:CG2	2.80	0.43
1:H:200:GLU:O	1:H:203:GLU:N	2.50	0.43
1:I:96:VAL:CB	1:M:173:VAL:CG2	2.96	0.43
1:J:93:LEU:O	1:J:97:VAL:HG23	2.18	0.43
1:L:116:GLU:HG2	1:L:174:VAL:HG11	2.00	0.43
1:M:107:VAL:HG11	1:R:21:LEU:HD21	2.00	0.43
1:N:62:LEU:HD11	1:N:120:ARG:CB	2.46	0.43
1:N:93:LEU:O	1:N:97:VAL:HG23	2.18	0.43
1:O:122:VAL:HG21	1:O:162:VAL:CG2	2.48	0.43
1:P:122:VAL:HG21	1:P:162:VAL:CG2	2.48	0.43
1:S:35:LEU:HD12	1:S:75:LEU:CD2	2.48	0.43
1:S:107:VAL:HG11	1:W:21:LEU:HD21	2.00	0.43
1:T:62:LEU:HD11	1:T:120:ARG:CB	2.46	0.43
1:T:93:LEU:O	1:T:97:VAL:HG23	2.18	0.43
1:W:35:LEU:HD12	1:W:75:LEU:CD2	2.48	0.43
1:X:93:LEU:O	1:X:97:VAL:HG23	2.18	0.43
1:A:20:MET:O	1:A:24:ILE:HG13	2.17	0.43
1:A:35:LEU:HD12	1:A:75:LEU:CD2	2.48	0.43
1:C:20:MET:O	1:C:24:ILE:HG13	2.17	0.43
1:E:107:VAL:HG11	1:I:21:LEU:HD21	2.00	0.43
1:F:93:LEU:O	1:F:97:VAL:HG23	2.18	0.43
1:F:200:GLU:O	1:F:203:GLU:N	2.50	0.43
1:L:35:LEU:HD12	1:L:75:LEU:CD2	2.49	0.43
1:L:107:VAL:HG11	1:O:21:LEU:HD21	2.00	0.43
1:N:107:VAL:HG11	1:S:21:LEU:HD21	2.00	0.43
1:R:161:ARG:NE	1:V:24:ILE:CG2	2.80	0.43
1:R:206:GLU:HA	1:R:209:ARG:HH21	1.82	0.43
1:S:93:LEU:O	1:S:97:VAL:HG23	2.18	0.43
1:T:161:ARG:NE	1:X:24:ILE:CG2	2.80	0.43
1:U:107:VAL:HG11	1:Y:21:LEU:HD21	2.00	0.43
1:V:20:MET:O	1:V:24:ILE:HG13	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:35:LEU:HD12	1:X:75:LEU:CD2	2.48	0.43
1:Y:20:MET:O	1:Y:24:ILE:HG13	2.18	0.43
1:Z:42:ALA:CB	1:Z:71:VAL:HG11	2.38	0.43
1:Q:200:GLU:O	1:Q:203:GLU:N	2.50	0.43
1:A:206:GLU:HA	1:A:209:ARG:HH21	1.82	0.43
1:E:20:MET:O	1:E:24:ILE:HG13	2.17	0.43
1:E:62:LEU:HD11	1:E:120:ARG:CB	2.46	0.43
1:H:62:LEU:HD11	1:H:120:ARG:CB	2.46	0.43
1:H:93:LEU:O	1:H:97:VAL:HG23	2.18	0.43
1:J:161:ARG:HD3	1:M:24:ILE:CD1	2.47	0.43
1:K:107:VAL:HG11	1:N:21:LEU:HD21	2.00	0.43
1:K:200:GLU:O	1:K:203:GLU:N	2.50	0.43
1:L:161:ARG:NE	1:O:24:ILE:CG2	2.80	0.43
1:M:96:VAL:CB	1:S:173:VAL:CG2	2.96	0.43
1:O:116:GLU:HG2	1:O:174:VAL:HG11	2.00	0.43
1:P:206:GLU:HA	1:P:209:ARG:HH21	1.82	0.43
1:R:107:VAL:HG11	1:V:21:LEU:HD21	2.00	0.43
1:T:35:LEU:HD12	1:T:75:LEU:CD2	2.48	0.43
1:T:42:ALA:HB2	1:T:71:VAL:CG1	2.40	0.43
1:Y:35:LEU:HD12	1:Y:75:LEU:CD2	2.48	0.43
1:Z:62:LEU:HD11	1:Z:120:ARG:CB	2.46	0.43
1:Q:21:LEU:HD21	1:I:107:VAL:HG11	2.00	0.43
1:B:181:LEU:HD23	1:B:181:LEU:C	2.39	0.43
1:C:89:MET:HG2	1:H:180:MET:HE3	1.65	0.43
1:C:122:VAL:HG21	1:C:162:VAL:CG2	2.48	0.43
1:D:107:VAL:HG11	1:H:21:LEU:HD21	2.00	0.43
1:G:42:ALA:CB	1:G:71:VAL:HG11	2.38	0.43
1:G:107:VAL:HG11	1:K:21:LEU:HD21	2.00	0.43
1:I:20:MET:O	1:I:24:ILE:HG13	2.17	0.43
1:K:181:LEU:HD23	1:K:181:LEU:C	2.39	0.43
1:N:35:LEU:HD12	1:N:75:LEU:CD2	2.48	0.43
1:R:35:LEU:HD12	1:R:75:LEU:CD2	2.48	0.43
1:R:161:ARG:HD3	1:V:24:ILE:CD1	2.47	0.43
1:U:20:MET:O	1:U:24:ILE:HG13	2.17	0.43
1:U:200:GLU:O	1:U:203:GLU:N	2.50	0.43
1:V:35:LEU:HD12	1:V:75:LEU:CD2	2.48	0.43
1:Y:93:LEU:O	1:Y:97:VAL:HG23	2.18	0.43
1:B:93:LEU:HD11	1:G:173:VAL:CG1	2.32	0.43
1:B:93:LEU:O	1:B:97:VAL:HG23	2.18	0.43
1:D:35:LEU:HD12	1:D:75:LEU:CD2	2.49	0.43
1:G:35:LEU:HD12	1:G:75:LEU:CD2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:107:VAL:HG11	1:L:21:LEU:HD21	2.00	0.43
1:L:20:MET:O	1:L:24:ILE:HG13	2.18	0.43
1:L:206:GLU:HA	1:L:209:ARG:HH21	1.82	0.43
1:T:89:MET:HG2	1:Y:180:MET:HE3	1.66	0.43
1:T:181:LEU:HD23	1:T:181:LEU:C	2.39	0.43
1:T:200:GLU:O	1:T:203:GLU:N	2.50	0.43
1:V:107:VAL:HG11	1:Z:21:LEU:HD21	2.00	0.43
1:Y:181:LEU:C	1:Y:181:LEU:HD23	2.39	0.43
1:Z:181:LEU:HD23	1:Z:181:LEU:C	2.39	0.43
1:Q:20:MET:O	1:Q:24:ILE:HG13	2.17	0.43
1:Q:62:LEU:HD11	1:Q:120:ARG:CB	2.46	0.43
1:Q:107:VAL:HG11	1:P:21:LEU:HD21	2.00	0.43
1:Q:206:GLU:CA	1:Q:209:ARG:HH21	2.32	0.43
1:A:93:LEU:O	1:A:97:VAL:HG23	2.18	0.43
1:C:62:LEU:HD11	1:C:120:ARG:CB	2.46	0.43
1:D:206:GLU:CA	1:D:209:ARG:HH21	2.32	0.43
1:E:35:LEU:HD12	1:E:75:LEU:CD2	2.48	0.43
1:E:96:VAL:CB	1:J:173:VAL:CG2	2.96	0.43
1:G:93:LEU:O	1:G:97:VAL:HG23	2.18	0.43
1:G:122:VAL:HG21	1:G:162:VAL:CG2	2.48	0.43
1:G:206:GLU:HA	1:G:209:ARG:HH21	1.82	0.43
1:H:206:GLU:CA	1:H:209:ARG:HH21	2.32	0.43
1:K:80:LYS:NZ	1:K:138:GLU:CD	2.72	0.43
1:K:122:VAL:HG21	1:K:162:VAL:CG2	2.48	0.43
1:L:181:LEU:HD23	1:L:181:LEU:C	2.39	0.43
1:M:35:LEU:HD12	1:M:75:LEU:CD2	2.48	0.43
1:M:93:LEU:O	1:M:97:VAL:HG23	2.18	0.43
1:N:122:VAL:HG21	1:N:162:VAL:CG2	2.48	0.43
1:O:93:LEU:HD11	1:U:173:VAL:HG12	1.91	0.43
1:O:181:LEU:HD23	1:O:181:LEU:C	2.39	0.43
1:P:107:VAL:HG11	1:U:21:LEU:HD21	2.00	0.43
1:P:181:LEU:HD23	1:P:181:LEU:C	2.39	0.43
1:P:206:GLU:CA	1:P:209:ARG:HH21	2.32	0.43
1:U:181:LEU:HD23	1:U:181:LEU:C	2.39	0.43
1:V:80:LYS:NZ	1:V:138:GLU:CD	2.72	0.43
1:V:181:LEU:C	1:V:181:LEU:HD23	2.39	0.43
1:W:206:GLU:HA	1:W:209:ARG:HH21	1.82	0.43
1:A:96:VAL:HB	1:F:173:VAL:CG2	2.49	0.43
1:A:181:LEU:HD23	1:A:181:LEU:C	2.39	0.43
1:C:80:LYS:NZ	1:C:138:GLU:CD	2.72	0.43
1:E:49:LEU:O	1:E:52:ALA:N	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:89:MET:HG2	1:J:180:MET:HE3	1.71	0.43
1:F:80:LYS:NZ	1:F:138:GLU:CD	2.72	0.43
1:G:181:LEU:HD23	1:G:181:LEU:C	2.39	0.43
1:H:35:LEU:HD12	1:H:75:LEU:CD2	2.48	0.43
1:I:93:LEU:O	1:I:97:VAL:HG23	2.18	0.43
1:J:62:LEU:HD11	1:J:120:ARG:CB	2.46	0.43
1:L:89:MET:HG2	1:P:180:MET:HE3	1.66	0.43
1:L:122:VAL:HG21	1:L:162:VAL:CG2	2.48	0.43
1:N:161:ARG:NE	1:S:24:ILE:CG2	2.80	0.43
1:P:80:LYS:NZ	1:P:138:GLU:CD	2.72	0.43
1:R:206:GLU:CA	1:R:209:ARG:HH21	2.32	0.43
1:S:122:VAL:HG21	1:S:162:VAL:CG2	2.48	0.43
1:T:96:VAL:HB	1:Y:173:VAL:CG2	2.49	0.43
1:Y:80:LYS:NZ	1:Y:138:GLU:CD	2.72	0.43
1:Z:35:LEU:HD12	1:Z:75:LEU:CD2	2.48	0.43
1:Z:80:LYS:NZ	1:Z:138:GLU:CD	2.72	0.43
1:Z:206:GLU:CA	1:Z:209:ARG:HH21	2.32	0.43
1:Q:181:LEU:C	1:Q:181:LEU:HD23	2.39	0.43
1:B:80:LYS:NZ	1:B:138:GLU:CD	2.72	0.43
1:C:107:VAL:HG11	1:G:21:LEU:HD21	2.00	0.43
1:D:122:VAL:HG21	1:D:162:VAL:CG2	2.48	0.43
1:F:181:LEU:C	1:F:181:LEU:HD23	2.39	0.43
1:G:200:GLU:O	1:G:203:GLU:N	2.50	0.43
1:H:80:LYS:NZ	1:H:138:GLU:CD	2.72	0.43
1:H:181:LEU:HD23	1:H:181:LEU:C	2.39	0.43
1:I:206:GLU:CA	1:I:209:ARG:HH21	2.32	0.43
1:L:80:LYS:NZ	1:L:138:GLU:CD	2.72	0.43
1:L:206:GLU:CA	1:L:209:ARG:HH21	2.32	0.43
1:N:181:LEU:C	1:N:181:LEU:HD23	2.39	0.43
1:O:80:LYS:NZ	1:O:138:GLU:CD	2.72	0.43
1:U:80:LYS:NZ	1:U:138:GLU:CD	2.72	0.43
1:U:89:MET:HG2	1:Z:180:MET:HE3	1.66	0.43
1:V:122:VAL:HG21	1:V:162:VAL:CG2	2.48	0.43
1:B:35:LEU:HD12	1:B:75:LEU:CD2	2.48	0.43
1:C:42:ALA:HB2	1:C:71:VAL:CG1	2.40	0.43
1:C:96:VAL:CB	1:H:173:VAL:CG2	2.96	0.43
1:F:96:VAL:HB	1:K:173:VAL:CG2	2.49	0.43
1:G:80:LYS:NZ	1:G:138:GLU:CD	2.72	0.43
1:I:96:VAL:HB	1:M:173:VAL:CG2	2.49	0.43
1:K:35:LEU:HD12	1:K:75:LEU:CD2	2.48	0.43
1:M:96:VAL:HB	1:S:173:VAL:CG2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:96:VAL:HB	1:T:173:VAL:CG2	2.49	0.43
1:R:80:LYS:NZ	1:R:138:GLU:CD	2.72	0.43
1:S:96:VAL:CB	1:X:173:VAL:CG2	2.96	0.43
1:T:49:LEU:O	1:T:52:ALA:N	2.48	0.43
1:U:35:LEU:HD12	1:U:75:LEU:CD2	2.48	0.43
1:V:200:GLU:O	1:V:203:GLU:N	2.50	0.43
1:W:42:ALA:CB	1:W:71:VAL:HG11	2.38	0.43
1:W:122:VAL:HG21	1:W:162:VAL:CG2	2.48	0.43
1:X:181:LEU:HD23	1:X:181:LEU:C	2.39	0.43
1:Q:80:LYS:NZ	1:Q:138:GLU:CD	2.72	0.43
1:B:89:MET:HG2	1:G:180:MET:HE3	1.66	0.43
1:D:181:LEU:HD23	1:D:181:LEU:C	2.39	0.43
1:E:181:LEU:HD23	1:E:181:LEU:C	2.39	0.43
1:F:35:LEU:HD12	1:F:75:LEU:CD2	2.48	0.43
1:H:122:VAL:HG21	1:H:162:VAL:CG2	2.48	0.43
1:N:80:LYS:NZ	1:N:138:GLU:CD	2.72	0.43
1:N:93:LEU:HD11	1:T:173:VAL:HG12	1.91	0.43
1:O:35:LEU:HD12	1:O:75:LEU:CD2	2.49	0.43
1:P:89:MET:HG2	1:V:180:MET:HE3	1.66	0.43
1:R:96:VAL:HB	1:W:173:VAL:CG2	2.49	0.43
1:W:62:LEU:HD11	1:W:120:ARG:HB3	2.01	0.43
1:W:130:GLU:HA	1:W:133:LEU:HD12	2.01	0.43
1:X:42:ALA:HB2	1:X:71:VAL:CG1	2.40	0.43
1:G:62:LEU:HD11	1:G:120:ARG:HB3	2.01	0.42
1:I:35:LEU:HD12	1:I:75:LEU:CD2	2.48	0.42
1:I:130:GLU:HA	1:I:133:LEU:HD12	2.01	0.42
1:J:35:LEU:HD12	1:J:75:LEU:CD2	2.48	0.42
1:J:80:LYS:NZ	1:J:138:GLU:CD	2.72	0.42
1:S:62:LEU:HD11	1:S:120:ARG:HB3	2.01	0.42
1:T:80:LYS:NZ	1:T:138:GLU:CD	2.72	0.42
1:U:62:LEU:HD11	1:U:120:ARG:HB3	2.01	0.42
1:W:206:GLU:CA	1:W:209:ARG:HH21	2.32	0.42
1:Q:35:LEU:HD12	1:Q:75:LEU:CD2	2.48	0.42
1:Q:130:GLU:HA	1:Q:133:LEU:HD12	2.01	0.42
1:B:49:LEU:O	1:B:52:ALA:N	2.48	0.42
1:C:62:LEU:HD11	1:C:120:ARG:HB3	2.01	0.42
1:C:96:VAL:HB	1:H:173:VAL:CG2	2.49	0.42
1:C:206:GLU:CA	1:C:209:ARG:HH21	2.32	0.42
1:D:96:VAL:HB	1:I:173:VAL:CG2	2.49	0.42
1:E:62:LEU:HD11	1:E:120:ARG:HB3	2.01	0.42
1:L:93:LEU:HD11	1:P:173:VAL:HG12	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:80:LYS:NZ	1:M:138:GLU:CD	2.72	0.42
1:M:181:LEU:HD23	1:M:181:LEU:C	2.39	0.42
1:O:62:LEU:HD11	1:O:120:ARG:HB3	2.01	0.42
1:W:181:LEU:HD23	1:W:181:LEU:C	2.39	0.42
1:Z:62:LEU:HD11	1:Z:120:ARG:HB3	2.01	0.42
1:A:64:ALA:O	1:A:68:VAL:HG23	2.20	0.42
1:B:206:GLU:CA	1:B:209:ARG:HH21	2.32	0.42
1:D:130:GLU:HA	1:D:133:LEU:HD12	2.01	0.42
1:F:64:ALA:O	1:F:68:VAL:HG23	2.20	0.42
1:G:42:ALA:HB2	1:G:71:VAL:CG1	2.40	0.42
1:G:96:VAL:HB	1:L:173:VAL:CG2	2.49	0.42
1:K:96:VAL:HB	1:O:173:VAL:CG2	2.49	0.42
1:L:22:ALA:HB2	1:L:30:ASP:CB	2.50	0.42
1:M:130:GLU:HA	1:M:133:LEU:HD12	2.01	0.42
1:M:206:GLU:CA	1:M:209:ARG:HH21	2.32	0.42
1:P:62:LEU:HD11	1:P:120:ARG:HB3	2.01	0.42
1:R:130:GLU:HA	1:R:133:LEU:HD12	2.01	0.42
1:S:96:VAL:HB	1:X:173:VAL:CG2	2.49	0.42
1:X:62:LEU:HD11	1:X:120:ARG:HB3	2.01	0.42
1:Q:96:VAL:HB	1:R:173:VAL:CG2	2.49	0.42
1:Q:173:VAL:CG2	1:H:96:VAL:HB	2.49	0.42
1:B:62:LEU:HD11	1:B:120:ARG:HB3	2.01	0.42
1:C:181:LEU:HD23	1:C:181:LEU:C	2.39	0.42
1:E:206:GLU:CA	1:E:209:ARG:HH21	2.32	0.42
1:J:93:LEU:HD11	1:N:173:VAL:CG1	2.32	0.42
1:J:96:VAL:CB	1:N:173:VAL:CG2	2.96	0.42
1:K:64:ALA:O	1:K:68:VAL:HG23	2.20	0.42
1:L:62:LEU:HD11	1:L:120:ARG:HB3	2.01	0.42
1:M:161:ARG:NE	1:R:24:ILE:CG2	2.80	0.42
1:U:96:VAL:CB	1:Z:173:VAL:CG2	2.96	0.42
1:V:49:LEU:O	1:V:52:ALA:N	2.48	0.42
1:W:80:LYS:NZ	1:W:138:GLU:CD	2.72	0.42
1:A:62:LEU:HD11	1:A:120:ARG:HB3	2.01	0.42
1:A:80:LYS:NZ	1:A:138:GLU:CD	2.72	0.42
1:A:161:ARG:CD	1:E:24:ILE:CG1	2.91	0.42
1:B:22:ALA:HB2	1:B:30:ASP:CB	2.50	0.42
1:B:96:VAL:HB	1:G:173:VAL:CG2	2.49	0.42
1:C:64:ALA:O	1:C:68:VAL:HG23	2.20	0.42
1:D:62:LEU:HD11	1:D:120:ARG:HB3	2.01	0.42
1:D:80:LYS:NZ	1:D:138:GLU:CD	2.72	0.42
1:E:64:ALA:O	1:E:68:VAL:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:4:GLU:CG	1:G:48:VAL:CG2	2.98	0.42
1:G:22:ALA:HB2	1:G:30:ASP:CB	2.50	0.42
1:G:64:ALA:O	1:G:68:VAL:HG23	2.20	0.42
1:J:96:VAL:HB	1:N:173:VAL:CG2	2.49	0.42
1:K:49:LEU:O	1:K:52:ALA:N	2.48	0.42
1:K:62:LEU:HD11	1:K:120:ARG:HB3	2.01	0.42
1:K:206:GLU:CA	1:K:209:ARG:HH21	2.32	0.42
1:L:4:GLU:CG	1:L:48:VAL:CG2	2.98	0.42
1:P:22:ALA:HB2	1:P:30:ASP:CB	2.50	0.42
1:R:64:ALA:O	1:R:68:VAL:HG23	2.20	0.42
1:S:80:LYS:NZ	1:S:138:GLU:CD	2.72	0.42
1:S:130:GLU:HA	1:S:133:LEU:HD12	2.01	0.42
1:U:206:GLU:CA	1:U:209:ARG:HH21	2.32	0.42
1:V:64:ALA:O	1:V:68:VAL:HG23	2.20	0.42
1:X:64:ALA:O	1:X:68:VAL:HG23	2.20	0.42
1:C:22:ALA:HB2	1:C:30:ASP:CB	2.50	0.42
1:C:93:LEU:HD11	1:H:173:VAL:CG1	2.32	0.42
1:E:130:GLU:HA	1:E:133:LEU:HD12	2.01	0.42
1:G:206:GLU:CA	1:G:209:ARG:HH21	2.32	0.42
1:H:130:GLU:HA	1:H:133:LEU:HD12	2.01	0.42
1:I:80:LYS:NZ	1:I:138:GLU:CD	2.72	0.42
1:J:1:PRO:HB2	1:J:3:ASP:HB2	2.01	0.42
1:L:96:VAL:HB	1:P:173:VAL:CG2	2.49	0.42
1:O:96:VAL:HB	1:U:173:VAL:CG2	2.49	0.42
1:S:181:LEU:HD23	1:S:181:LEU:C	2.39	0.42
1:W:1:PRO:HB2	1:W:3:ASP:HB2	2.01	0.42
1:Y:4:GLU:CG	1:Y:48:VAL:CG2	2.98	0.42
1:Y:62:LEU:HD11	1:Y:120:ARG:HB3	2.01	0.42
1:Q:49:LEU:O	1:Q:52:ALA:N	2.48	0.42
1:A:1:PRO:HB2	1:A:3:ASP:HB2	2.01	0.42
1:E:80:LYS:NZ	1:E:138:GLU:CD	2.72	0.42
1:F:206:GLU:CA	1:F:209:ARG:HH21	2.32	0.42
1:I:113:GLY:O	1:I:115:PRO:HD3	2.20	0.42
1:J:181:LEU:HD23	1:J:181:LEU:C	2.39	0.42
1:L:64:ALA:O	1:L:68:VAL:HG23	2.20	0.42
1:M:1:PRO:HB2	1:M:3:ASP:HB2	2.01	0.42
1:M:79:ALA:HB1	1:M:88:LEU:HD23	1.89	0.42
1:O:64:ALA:O	1:O:68:VAL:HG23	2.20	0.42
1:P:4:GLU:CG	1:P:48:VAL:CG2	2.98	0.42
1:P:130:GLU:HA	1:P:133:LEU:HD12	2.01	0.42
1:R:62:LEU:HD11	1:R:120:ARG:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:181:LEU:HD23	1:R:181:LEU:C	2.39	0.42
1:T:4:GLU:CG	1:T:48:VAL:CG2	2.98	0.42
1:T:206:GLU:CA	1:T:209:ARG:HH21	2.32	0.42
1:V:130:GLU:HA	1:V:133:LEU:HD12	2.01	0.42
1:V:206:GLU:CA	1:V:209:ARG:HH21	2.32	0.42
1:Y:22:ALA:HB2	1:Y:30:ASP:CB	2.50	0.42
1:B:4:GLU:CG	1:B:48:VAL:CG2	2.98	0.42
1:B:64:ALA:O	1:B:68:VAL:HG23	2.20	0.42
1:C:4:GLU:CG	1:C:48:VAL:CG2	2.98	0.42
1:E:1:PRO:HB2	1:E:3:ASP:HB2	2.01	0.42
1:E:96:VAL:HB	1:J:173:VAL:CG2	2.49	0.42
1:H:62:LEU:HD11	1:H:120:ARG:HB3	2.01	0.42
1:H:64:ALA:O	1:H:68:VAL:HG23	2.20	0.42
1:J:64:ALA:O	1:J:68:VAL:HG23	2.20	0.42
1:J:114:ASP:OD2	1:J:117:VAL:CG2	2.68	0.42
1:N:1:PRO:HB2	1:N:3:ASP:HB2	2.01	0.42
1:O:206:GLU:CA	1:O:209:ARG:HH21	2.32	0.42
1:S:1:PRO:HB2	1:S:3:ASP:HB2	2.01	0.42
1:S:161:ARG:CD	1:W:24:ILE:CG1	2.91	0.42
1:V:113:GLY:O	1:V:115:PRO:HD3	2.20	0.42
1:X:1:PRO:HB2	1:X:3:ASP:HB2	2.01	0.42
1:X:206:GLU:CA	1:X:209:ARG:HH21	2.32	0.42
1:Z:4:GLU:CG	1:Z:48:VAL:CG2	2.98	0.42
1:Z:22:ALA:HB2	1:Z:30:ASP:CB	2.50	0.42
1:Q:161:ARG:CD	1:P:24:ILE:CG1	2.91	0.42
1:A:114:ASP:OD2	1:A:117:VAL:CG2	2.68	0.42
1:C:130:GLU:HA	1:C:133:LEU:HD12	2.01	0.42
1:H:113:GLY:O	1:H:115:PRO:HD3	2.20	0.42
1:I:1:PRO:HB2	1:I:3:ASP:HB2	2.01	0.42
1:J:130:GLU:HA	1:J:133:LEU:HD12	2.01	0.42
1:K:42:ALA:CB	1:K:71:VAL:HG11	2.38	0.42
1:K:114:ASP:OD2	1:K:117:VAL:CG2	2.68	0.42
1:M:64:ALA:O	1:M:68:VAL:HG23	2.20	0.42
1:N:206:GLU:CA	1:N:209:ARG:HH21	2.32	0.42
1:O:96:VAL:CB	1:U:173:VAL:CG2	2.96	0.42
1:P:96:VAL:HB	1:V:173:VAL:CG2	2.49	0.42
1:R:113:GLY:O	1:R:115:PRO:HD3	2.20	0.42
1:S:79:ALA:HB1	1:S:88:LEU:HD23	1.89	0.42
1:T:62:LEU:HD11	1:T:120:ARG:HB3	2.01	0.42
1:U:4:GLU:CG	1:U:48:VAL:CG2	2.98	0.42
1:V:22:ALA:HB2	1:V:30:ASP:CB	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:62:LEU:HD11	1:V:120:ARG:HB3	2.01	0.42
1:V:106:LEU:HD11	1:V:118:ALA:HB1	2.02	0.42
1:W:4:GLU:CG	1:W:48:VAL:CG2	2.98	0.42
1:W:64:ALA:O	1:W:68:VAL:HG23	2.20	0.42
1:X:22:ALA:HB2	1:X:30:ASP:CB	2.50	0.42
1:Z:64:ALA:O	1:Z:68:VAL:HG23	2.20	0.42
1:B:114:ASP:OD2	1:B:117:VAL:CG2	2.68	0.42
1:F:1:PRO:HB2	1:F:3:ASP:HB2	2.01	0.42
1:G:96:VAL:CB	1:L:173:VAL:CG2	2.96	0.42
1:H:22:ALA:HB2	1:H:30:ASP:CB	2.50	0.42
1:I:62:LEU:HD11	1:I:120:ARG:HB3	2.01	0.42
1:L:113:GLY:O	1:L:115:PRO:HD3	2.20	0.42
1:M:62:LEU:HD11	1:M:120:ARG:HB3	2.01	0.42
1:N:4:GLU:CG	1:N:48:VAL:CG2	2.98	0.42
1:O:22:ALA:HB2	1:O:30:ASP:CB	2.50	0.42
1:P:1:PRO:HB2	1:P:3:ASP:HB2	2.01	0.42
1:R:4:GLU:CG	1:R:48:VAL:CG2	2.98	0.42
1:S:64:ALA:O	1:S:68:VAL:HG23	2.20	0.42
1:S:113:GLY:O	1:S:115:PRO:HD3	2.20	0.42
1:U:1:PRO:HB2	1:U:3:ASP:HB2	2.01	0.42
1:U:22:ALA:HB2	1:U:30:ASP:CB	2.50	0.42
1:Q:114:ASP:OD2	1:Q:117:VAL:CG2	2.68	0.41
1:D:22:ALA:HB2	1:D:30:ASP:CB	2.50	0.41
1:D:49:LEU:O	1:D:52:ALA:N	2.48	0.41
1:D:114:ASP:OD2	1:D:117:VAL:CG2	2.68	0.41
1:D:161:ARG:HD3	1:H:24:ILE:CG1	2.50	0.41
1:F:4:GLU:CG	1:F:48:VAL:CG2	2.98	0.41
1:I:22:ALA:HB2	1:I:30:ASP:CB	2.50	0.41
1:I:181:LEU:C	1:I:181:LEU:HD23	2.39	0.41
1:K:22:ALA:HB2	1:K:30:ASP:CB	2.50	0.41
1:M:22:ALA:HB2	1:M:30:ASP:CB	2.50	0.41
1:P:161:ARG:HD3	1:U:24:ILE:CG1	2.50	0.41
1:R:114:ASP:OD2	1:R:117:VAL:CG2	2.68	0.41
1:R:161:ARG:HD3	1:V:24:ILE:CG1	2.50	0.41
1:S:114:ASP:OD2	1:S:117:VAL:CG2	2.68	0.41
1:T:1:PRO:HB2	1:T:3:ASP:HB2	2.01	0.41
1:T:114:ASP:OD2	1:T:117:VAL:CG2	2.68	0.41
1:U:96:VAL:HB	1:Z:173:VAL:CG2	2.49	0.41
1:W:79:ALA:HB1	1:W:88:LEU:HD23	1.89	0.41
1:Y:64:ALA:O	1:Y:68:VAL:HG23	2.20	0.41
1:Z:114:ASP:OD2	1:Z:117:VAL:CG2	2.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:113:GLY:O	1:Q:115:PRO:HD3	2.20	0.41
1:C:161:ARG:HD3	1:G:24:ILE:CG1	2.50	0.41
1:D:4:GLU:CG	1:D:48:VAL:CG2	2.98	0.41
1:D:64:ALA:O	1:D:68:VAL:HG23	2.20	0.41
1:E:4:GLU:CG	1:E:48:VAL:CG2	2.98	0.41
1:F:22:ALA:HB2	1:F:30:ASP:CB	2.50	0.41
1:F:62:LEU:HD11	1:F:120:ARG:HB3	2.01	0.41
1:I:64:ALA:O	1:I:68:VAL:HG23	2.20	0.41
1:I:106:LEU:HD11	1:I:118:ALA:HB1	2.02	0.41
1:J:172:PRO:O	1:J:176:ILE:HG13	2.21	0.41
1:K:4:GLU:CG	1:K:48:VAL:CG2	2.98	0.41
1:R:1:PRO:HB2	1:R:3:ASP:HB2	2.01	0.41
1:T:22:ALA:HB2	1:T:30:ASP:CB	2.50	0.41
1:V:4:GLU:CG	1:V:48:VAL:CG2	2.98	0.41
1:X:130:GLU:HA	1:X:133:LEU:HD12	2.01	0.41
1:Y:114:ASP:OD2	1:Y:117:VAL:CG2	2.68	0.41
1:Y:206:GLU:CA	1:Y:209:ARG:HH21	2.32	0.41
1:Z:1:PRO:HB2	1:Z:3:ASP:HB2	2.01	0.41
1:Q:22:ALA:HB2	1:Q:30:ASP:HB3	2.02	0.41
1:Q:62:LEU:HD11	1:Q:120:ARG:HB3	2.01	0.41
1:Q:64:ALA:O	1:Q:68:VAL:HG23	2.20	0.41
1:Q:173:VAL:HG12	1:H:93:LEU:HD11	1.91	0.41
1:B:96:VAL:CB	1:G:173:VAL:CG2	2.96	0.41
1:B:130:GLU:HA	1:B:133:LEU:HD12	2.01	0.41
1:D:1:PRO:HB2	1:D:3:ASP:HB2	2.01	0.41
1:E:113:GLY:O	1:E:115:PRO:HD3	2.20	0.41
1:F:130:GLU:HA	1:F:133:LEU:HD12	2.01	0.41
1:I:114:ASP:OD2	1:I:117:VAL:CG2	2.68	0.41
1:J:206:GLU:CA	1:J:209:ARG:HH21	2.32	0.41
1:K:113:GLY:O	1:K:115:PRO:HD3	2.20	0.41
1:L:13:LYS:O	1:L:17:MET:HG3	2.21	0.41
1:M:161:ARG:HD3	1:R:24:ILE:CG1	2.50	0.41
1:N:22:ALA:HB2	1:N:30:ASP:CB	2.50	0.41
1:N:62:LEU:HD11	1:N:120:ARG:HB3	2.01	0.41
1:N:172:PRO:O	1:N:176:ILE:HG13	2.21	0.41
1:O:13:LYS:O	1:O:17:MET:HG3	2.21	0.41
1:O:113:GLY:O	1:O:115:PRO:HD3	2.20	0.41
1:R:172:PRO:O	1:R:176:ILE:HG13	2.21	0.41
1:U:113:GLY:O	1:U:115:PRO:HD3	2.20	0.41
1:U:114:ASP:OD2	1:U:117:VAL:CG2	2.68	0.41
1:V:42:ALA:HB2	1:V:71:VAL:CG1	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:172:PRO:O	1:V:176:ILE:HG13	2.21	0.41
1:W:113:GLY:O	1:W:115:PRO:HD3	2.20	0.41
1:X:80:LYS:NZ	1:X:138:GLU:CD	2.72	0.41
1:X:114:ASP:OD2	1:X:117:VAL:CG2	2.68	0.41
1:Y:147:ARG:O	1:Y:151:VAL:HG23	2.21	0.41
1:Z:106:LEU:HD11	1:Z:118:ALA:HB1	2.02	0.41
1:Z:130:GLU:HA	1:Z:133:LEU:HD12	2.01	0.41
1:Z:172:PRO:O	1:Z:176:ILE:HG13	2.21	0.41
1:Q:4:GLU:CG	1:Q:48:VAL:CG2	2.98	0.41
1:A:4:GLU:CG	1:A:48:VAL:CG2	2.98	0.41
1:A:22:ALA:HB2	1:A:30:ASP:CB	2.50	0.41
1:A:147:ARG:O	1:A:151:VAL:HG23	2.21	0.41
1:A:206:GLU:CA	1:A:209:ARG:HH21	2.32	0.41
1:C:113:GLY:O	1:C:115:PRO:HD3	2.20	0.41
1:D:93:LEU:HD11	1:I:173:VAL:CG1	2.32	0.41
1:E:147:ARG:O	1:E:151:VAL:HG23	2.21	0.41
1:H:4:GLU:CG	1:H:48:VAL:CG2	2.98	0.41
1:H:114:ASP:OD2	1:H:117:VAL:CG2	2.68	0.41
1:I:4:GLU:CG	1:I:48:VAL:CG2	2.98	0.41
1:I:13:LYS:O	1:I:17:MET:HG3	2.21	0.41
1:I:22:ALA:HB2	1:I:30:ASP:HB3	2.03	0.41
1:J:4:GLU:CG	1:J:48:VAL:CG2	2.98	0.41
1:J:22:ALA:HB2	1:J:30:ASP:CB	2.50	0.41
1:K:130:GLU:HA	1:K:133:LEU:HD12	2.01	0.41
1:L:1:PRO:HB2	1:L:3:ASP:HB2	2.02	0.41
1:M:13:LYS:O	1:M:17:MET:HG3	2.21	0.41
1:M:22:ALA:HB2	1:M:30:ASP:HB3	2.02	0.41
1:N:42:ALA:HB2	1:N:71:VAL:CG1	2.40	0.41
1:N:64:ALA:O	1:N:68:VAL:HG23	2.20	0.41
1:N:96:VAL:CB	1:T:173:VAL:CG2	2.96	0.41
1:N:130:GLU:HA	1:N:133:LEU:HD12	2.01	0.41
1:O:1:PRO:HB2	1:O:3:ASP:HB2	2.01	0.41
1:O:4:GLU:CG	1:O:48:VAL:CG2	2.98	0.41
1:P:13:LYS:O	1:P:17:MET:HG3	2.21	0.41
1:S:13:LYS:O	1:S:17:MET:HG3	2.21	0.41
1:S:22:ALA:HB2	1:S:30:ASP:CB	2.50	0.41
1:T:161:ARG:HD3	1:X:24:ILE:CG1	2.50	0.41
1:T:172:PRO:O	1:T:176:ILE:HG13	2.21	0.41
1:U:147:ARG:O	1:U:151:VAL:HG23	2.21	0.41
1:U:172:PRO:O	1:U:176:ILE:HG13	2.21	0.41
1:V:1:PRO:HB2	1:V:3:ASP:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:114:ASP:OD2	1:W:117:VAL:CG2	2.68	0.41
1:W:172:PRO:O	1:W:176:ILE:HG13	2.21	0.41
1:X:147:ARG:O	1:X:151:VAL:HG23	2.21	0.41
1:Z:122:VAL:HG21	1:Z:162:VAL:CG2	2.48	0.41
1:Q:42:ALA:HB2	1:Q:71:VAL:CG1	2.40	0.41
1:Q:106:LEU:HD11	1:Q:118:ALA:HB1	2.02	0.41
1:B:172:PRO:O	1:B:176:ILE:HG13	2.21	0.41
1:C:172:PRO:O	1:C:176:ILE:HG13	2.21	0.41
1:D:13:LYS:O	1:D:17:MET:HG3	2.21	0.41
1:E:172:PRO:O	1:E:176:ILE:HG13	2.21	0.41
1:F:147:ARG:O	1:F:151:VAL:HG23	2.21	0.41
1:G:130:GLU:HA	1:G:133:LEU:HD12	2.01	0.41
1:H:13:LYS:O	1:H:17:MET:HG3	2.21	0.41
1:K:13:LYS:O	1:K:17:MET:HG3	2.21	0.41
1:L:114:ASP:OD2	1:L:117:VAL:CG2	2.68	0.41
1:L:130:GLU:HA	1:L:133:LEU:HD12	2.01	0.41
1:N:113:GLY:O	1:N:115:PRO:HD3	2.20	0.41
1:N:147:ARG:O	1:N:151:VAL:HG23	2.21	0.41
1:N:161:ARG:CD	1:S:24:ILE:CG1	2.91	0.41
1:O:161:ARG:HD3	1:T:24:ILE:CG1	2.50	0.41
1:P:113:GLY:O	1:P:115:PRO:HD3	2.20	0.41
1:X:4:GLU:CG	1:X:48:VAL:CG2	2.98	0.41
1:Y:172:PRO:O	1:Y:176:ILE:HG13	2.21	0.41
1:Q:13:LYS:O	1:Q:17:MET:HG3	2.21	0.41
1:A:13:LYS:O	1:A:17:MET:HG3	2.21	0.41
1:A:130:GLU:HA	1:A:133:LEU:HD12	2.01	0.41
1:B:147:ARG:O	1:B:151:VAL:HG23	2.21	0.41
1:F:113:GLY:O	1:F:115:PRO:HD3	2.20	0.41
1:G:13:LYS:O	1:G:17:MET:HG3	2.21	0.41
1:G:114:ASP:OD2	1:G:117:VAL:CG2	2.68	0.41
1:G:172:PRO:O	1:G:176:ILE:HG13	2.21	0.41
1:J:62:LEU:HD11	1:J:120:ARG:HB3	2.01	0.41
1:K:1:PRO:HB2	1:K:3:ASP:HB2	2.01	0.41
1:K:96:VAL:CB	1:O:173:VAL:CG2	2.96	0.41
1:M:172:PRO:O	1:M:176:ILE:HG13	2.21	0.41
1:N:89:MET:HG2	1:T:180:MET:HE3	1.66	0.41
1:N:114:ASP:OD2	1:N:117:VAL:CG2	2.68	0.41
1:O:114:ASP:OD2	1:O:117:VAL:CG2	2.68	0.41
1:R:22:ALA:HB2	1:R:30:ASP:HB3	2.02	0.41
1:S:206:GLU:CA	1:S:209:ARG:HH21	2.32	0.41
1:T:13:LYS:O	1:T:17:MET:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:147:ARG:O	1:T:151:VAL:HG23	2.21	0.41
1:U:130:GLU:HA	1:U:133:LEU:HD12	2.01	0.41
1:Q:1:PRO:HB2	1:Q:3:ASP:HB2	2.01	0.41
1:Q:22:ALA:HB2	1:Q:30:ASP:CB	2.50	0.41
1:B:113:GLY:O	1:B:115:PRO:HD3	2.20	0.41
1:D:161:ARG:CD	1:H:24:ILE:CG1	2.91	0.41
1:E:22:ALA:HB2	1:E:30:ASP:CB	2.50	0.41
1:E:106:LEU:HD11	1:E:118:ALA:HB1	2.02	0.41
1:F:114:ASP:OD2	1:F:117:VAL:CG2	2.68	0.41
1:I:147:ARG:O	1:I:151:VAL:HG23	2.21	0.41
1:O:147:ARG:O	1:O:151:VAL:HG23	2.21	0.41
1:O:172:PRO:O	1:O:176:ILE:HG13	2.21	0.41
1:P:42:ALA:HB2	1:P:71:VAL:CG1	2.40	0.41
1:P:147:ARG:O	1:P:151:VAL:HG23	2.21	0.41
1:S:4:GLU:CG	1:S:48:VAL:CG2	2.98	0.41
1:S:172:PRO:O	1:S:176:ILE:HG13	2.21	0.41
1:X:13:LYS:O	1:X:17:MET:HG3	2.21	0.41
1:Y:1:PRO:HB2	1:Y:3:ASP:HB2	2.01	0.41
1:Y:130:GLU:HA	1:Y:133:LEU:HD12	2.01	0.41
1:Q:172:PRO:O	1:Q:176:ILE:HG13	2.21	0.41
1:B:1:PRO:HB2	1:B:3:ASP:HB2	2.01	0.41
1:G:147:ARG:O	1:G:151:VAL:HG23	2.21	0.41
1:J:113:GLY:O	1:J:115:PRO:HD3	2.20	0.41
1:J:147:ARG:O	1:J:151:VAL:HG23	2.21	0.41
1:M:4:GLU:CG	1:M:48:VAL:CG2	2.98	0.41
1:M:161:ARG:CD	1:R:24:ILE:CG1	2.91	0.41
1:P:64:ALA:O	1:P:68:VAL:HG23	2.20	0.41
1:P:172:PRO:O	1:P:176:ILE:HG13	2.21	0.41
1:T:113:GLY:O	1:T:115:PRO:HD3	2.20	0.41
1:W:22:ALA:HB2	1:W:30:ASP:CB	2.50	0.41
1:Y:113:GLY:O	1:Y:115:PRO:HD3	2.20	0.41
1:Q:147:ARG:O	1:Q:151:VAL:HG23	2.21	0.41
1:A:89:MET:HG2	1:F:180:MET:HE3	1.66	0.41
1:B:161:ARG:HD3	1:F:24:ILE:CG1	2.50	0.41
1:C:1:PRO:HB2	1:C:3:ASP:HB2	2.01	0.41
1:C:114:ASP:OD2	1:C:117:VAL:CG2	2.68	0.41
1:D:61:ALA:HB1	1:D:105:VAL:HG22	2.03	0.41
1:D:113:GLY:O	1:D:115:PRO:HD3	2.20	0.41
1:E:22:ALA:HB2	1:E:30:ASP:HB3	2.02	0.41
1:E:114:ASP:OD2	1:E:117:VAL:CG2	2.68	0.41
1:F:96:VAL:CB	1:K:173:VAL:CG2	2.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:161:ARG:HD3	1:J:24:ILE:CG1	2.50	0.41
1:H:1:PRO:HB2	1:H:3:ASP:HB2	2.01	0.41
1:H:22:ALA:HB2	1:H:30:ASP:HB3	2.02	0.41
1:H:172:PRO:O	1:H:176:ILE:HG13	2.21	0.41
1:I:172:PRO:O	1:I:176:ILE:HG13	2.21	0.41
1:J:22:ALA:HB2	1:J:30:ASP:HB3	2.02	0.41
1:J:161:ARG:HD3	1:M:24:ILE:CG1	2.50	0.41
1:K:42:ALA:HB2	1:K:71:VAL:CG1	2.40	0.41
1:K:172:PRO:O	1:K:176:ILE:HG13	2.21	0.41
1:L:147:ARG:O	1:L:151:VAL:HG23	2.21	0.41
1:M:113:GLY:O	1:M:115:PRO:HD3	2.20	0.41
1:M:114:ASP:OD2	1:M:117:VAL:CG2	2.68	0.41
1:N:13:LYS:O	1:N:17:MET:HG3	2.21	0.41
1:P:106:LEU:HD11	1:P:118:ALA:HB1	2.02	0.41
1:R:22:ALA:HB2	1:R:30:ASP:CB	2.50	0.41
1:S:63:ARG:O	1:S:67:LEU:HG	2.21	0.41
1:S:147:ARG:O	1:S:151:VAL:HG23	2.21	0.41
1:T:64:ALA:O	1:T:68:VAL:HG23	2.20	0.41
1:U:13:LYS:O	1:U:17:MET:HG3	2.21	0.41
1:U:64:ALA:O	1:U:68:VAL:HG23	2.20	0.41
1:X:113:GLY:O	1:X:115:PRO:HD3	2.20	0.41
1:Z:113:GLY:O	1:Z:115:PRO:HD3	2.20	0.41
1:Q:61:ALA:HB1	1:Q:105:VAL:HG22	2.03	0.41
1:D:22:ALA:HB2	1:D:30:ASP:HB3	2.02	0.41
1:D:172:PRO:O	1:D:176:ILE:HG13	2.21	0.41
1:F:13:LYS:O	1:F:17:MET:HG3	2.21	0.41
1:G:63:ARG:O	1:G:67:LEU:HG	2.21	0.41
1:H:61:ALA:HB1	1:H:105:VAL:HG22	2.03	0.41
1:J:13:LYS:O	1:J:17:MET:HG3	2.21	0.41
1:M:63:ARG:O	1:M:67:LEU:HG	2.21	0.41
1:P:22:ALA:HB2	1:P:30:ASP:HB3	2.03	0.41
1:P:114:ASP:OD2	1:P:117:VAL:CG2	2.68	0.41
1:R:61:ALA:HB1	1:R:105:VAL:HG22	2.03	0.41
1:R:161:ARG:CD	1:V:24:ILE:CG1	2.91	0.41
1:T:130:GLU:HA	1:T:133:LEU:HD12	2.01	0.41
1:W:42:ALA:HB2	1:W:71:VAL:CG1	2.40	0.41
1:Q:24:ILE:CG1	1:I:161:ARG:CD	2.91	0.40
1:Q:161:ARG:HD3	1:P:24:ILE:CG1	2.50	0.40
1:A:63:ARG:O	1:A:67:LEU:HG	2.21	0.40
1:A:96:VAL:CB	1:F:173:VAL:CG2	2.96	0.40
1:C:13:LYS:O	1:C:17:MET:HG3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:147:ARG:O	1:C:151:VAL:HG23	2.21	0.40
1:E:13:LYS:O	1:E:17:MET:HG3	2.21	0.40
1:F:172:PRO:O	1:F:176:ILE:HG13	2.21	0.40
1:H:147:ARG:O	1:H:151:VAL:HG23	2.21	0.40
1:L:172:PRO:O	1:L:176:ILE:HG13	2.21	0.40
1:M:147:ARG:O	1:M:151:VAL:HG23	2.21	0.40
1:N:63:ARG:O	1:N:67:LEU:HG	2.21	0.40
1:O:22:ALA:HB2	1:O:30:ASP:HB3	2.02	0.40
1:O:89:MET:HG2	1:U:180:MET:HE3	1.66	0.40
1:O:130:GLU:HA	1:O:133:LEU:HD12	2.01	0.40
1:P:63:ARG:O	1:P:67:LEU:HG	2.21	0.40
1:R:63:ARG:O	1:R:67:LEU:HG	2.21	0.40
1:U:198:SER:C	1:U:200:GLU:H	2.25	0.40
1:X:63:ARG:O	1:X:67:LEU:HG	2.21	0.40
1:Y:13:LYS:O	1:Y:17:MET:HG3	2.21	0.40
1:Z:63:ARG:O	1:Z:67:LEU:HG	2.21	0.40
1:B:106:LEU:HD11	1:B:118:ALA:HB1	2.02	0.40
1:I:61:ALA:HB1	1:I:105:VAL:HG22	2.03	0.40
1:L:198:SER:C	1:L:200:GLU:H	2.25	0.40
1:S:198:SER:C	1:S:200:GLU:H	2.25	0.40
1:T:63:ARG:O	1:T:67:LEU:HG	2.21	0.40
1:T:96:VAL:CB	1:Y:173:VAL:CG2	2.96	0.40
1:V:13:LYS:O	1:V:17:MET:HG3	2.21	0.40
1:V:61:ALA:HB1	1:V:105:VAL:HG22	2.03	0.40
1:V:114:ASP:OD2	1:V:117:VAL:CG2	2.68	0.40
1:W:61:ALA:HB1	1:W:105:VAL:HG22	2.03	0.40
1:Z:42:ALA:HB2	1:Z:71:VAL:CG1	2.40	0.40
1:B:13:LYS:O	1:B:17:MET:HG3	2.21	0.40
1:G:113:GLY:O	1:G:115:PRO:HD3	2.20	0.40
1:G:198:SER:C	1:G:200:GLU:H	2.25	0.40
1:O:198:SER:C	1:O:200:GLU:H	2.25	0.40
1:P:61:ALA:HB1	1:P:105:VAL:HG22	2.03	0.40
1:R:147:ARG:O	1:R:151:VAL:HG23	2.21	0.40
1:S:22:ALA:HB2	1:S:30:ASP:HB3	2.03	0.40
1:V:22:ALA:HB2	1:V:30:ASP:HB3	2.03	0.40
1:W:63:ARG:O	1:W:67:LEU:HG	2.21	0.40
1:Z:147:ARG:O	1:Z:151:VAL:HG23	2.21	0.40
1:A:106:LEU:HD11	1:A:118:ALA:HB1	2.02	0.40
1:A:113:GLY:O	1:A:115:PRO:HD3	2.20	0.40
1:B:22:ALA:HB2	1:B:30:ASP:HB3	2.03	0.40
1:C:198:SER:C	1:C:200:GLU:H	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:21:LEU:HA	1:D:24:ILE:HD12	2.04	0.40
1:D:106:LEU:HD11	1:D:118:ALA:HB1	2.02	0.40
1:D:147:ARG:O	1:D:151:VAL:HG23	2.21	0.40
1:F:106:LEU:HD11	1:F:118:ALA:HB1	2.02	0.40
1:J:198:SER:C	1:J:200:GLU:H	2.25	0.40
1:K:22:ALA:HB2	1:K:30:ASP:HB3	2.02	0.40
1:K:147:ARG:O	1:K:151:VAL:HG23	2.21	0.40
1:L:22:ALA:HB2	1:L:30:ASP:HB3	2.02	0.40
1:M:61:ALA:HB1	1:M:105:VAL:HG22	2.03	0.40
1:O:63:ARG:O	1:O:67:LEU:HG	2.21	0.40
1:R:21:LEU:HA	1:R:24:ILE:HD12	2.04	0.40
1:T:22:ALA:HB2	1:T:30:ASP:HB3	2.03	0.40
1:U:106:LEU:HD11	1:U:118:ALA:HB1	2.02	0.40
1:X:172:PRO:O	1:X:176:ILE:HG13	2.21	0.40
1:Y:22:ALA:HB2	1:Y:30:ASP:HB3	2.02	0.40
1:Y:198:SER:C	1:Y:200:GLU:H	2.25	0.40
1:A:172:PRO:O	1:A:176:ILE:HG13	2.21	0.40
1:A:198:SER:C	1:A:200:GLU:H	2.25	0.40
1:E:63:ARG:O	1:E:67:LEU:HG	2.21	0.40
1:G:22:ALA:HB2	1:G:30:ASP:HB3	2.03	0.40
1:H:63:ARG:O	1:H:67:LEU:HG	2.21	0.40
1:I:21:LEU:HA	1:I:24:ILE:HD12	2.04	0.40
1:W:13:LYS:O	1:W:17:MET:HG3	2.21	0.40
1:W:21:LEU:HA	1:W:24:ILE:HD12	2.04	0.40
1:W:147:ARG:O	1:W:151:VAL:HG23	2.21	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	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29 69

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	C	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	D	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	E	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	F	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	G	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	H	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	I	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	J	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	K	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	L	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	M	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	N	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	O	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	P	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	Q	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	R	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	S	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	T	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	U	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	V	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	W	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	X	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	Y	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
1	Z	209/211 (99%)	201 (96%)	7 (3%)	1 (0%)	29	69
All	All	5434/5486 (99%)	5226 (96%)	182 (3%)	26 (0%)	32	69

All (26) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	Q	194	ARG
1	A	194	ARG
1	B	194	ARG

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Mol	Chain	Res	Type
1	C	194	ARG
1	D	194	ARG
1	E	194	ARG
1	F	194	ARG
1	G	194	ARG
1	H	194	ARG
1	I	194	ARG
1	J	194	ARG
1	K	194	ARG
1	L	194	ARG
1	M	194	ARG
1	N	194	ARG
1	O	194	ARG
1	P	194	ARG
1	R	194	ARG
1	S	194	ARG
1	T	194	ARG
1	U	194	ARG
1	V	194	ARG
1	W	194	ARG
1	X	194	ARG
1	Y	194	ARG
1	Z	194	ARG

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	166/166 (100%)	166 (100%)	0	100	100
1	B	166/166 (100%)	166 (100%)	0	100	100
1	C	166/166 (100%)	166 (100%)	0	100	100
1	D	166/166 (100%)	166 (100%)	0	100	100
1	E	166/166 (100%)	166 (100%)	0	100	100
1	F	166/166 (100%)	166 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	G	166/166 (100%)	166 (100%)	0	100	100
1	H	166/166 (100%)	166 (100%)	0	100	100
1	I	166/166 (100%)	166 (100%)	0	100	100
1	J	166/166 (100%)	166 (100%)	0	100	100
1	K	166/166 (100%)	166 (100%)	0	100	100
1	L	166/166 (100%)	166 (100%)	0	100	100
1	M	166/166 (100%)	166 (100%)	0	100	100
1	N	166/166 (100%)	166 (100%)	0	100	100
1	O	166/166 (100%)	166 (100%)	0	100	100
1	P	166/166 (100%)	166 (100%)	0	100	100
1	Q	166/166 (100%)	166 (100%)	0	100	100
1	R	166/166 (100%)	166 (100%)	0	100	100
1	S	166/166 (100%)	166 (100%)	0	100	100
1	T	166/166 (100%)	166 (100%)	0	100	100
1	U	166/166 (100%)	166 (100%)	0	100	100
1	V	166/166 (100%)	166 (100%)	0	100	100
1	W	166/166 (100%)	166 (100%)	0	100	100
1	X	166/166 (100%)	166 (100%)	0	100	100
1	Y	166/166 (100%)	166 (100%)	0	100	100
1	Z	166/166 (100%)	166 (100%)	0	100	100
All	All	4316/4316 (100%)	4316 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

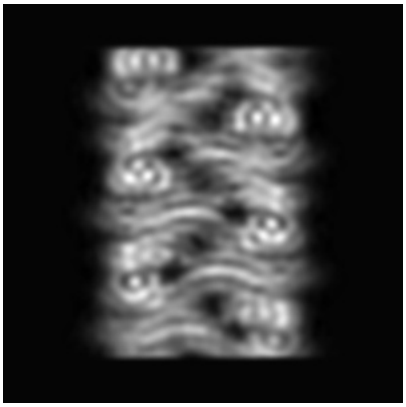
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-9018. These allow visual inspection of the internal detail of the map and identification of artifacts.

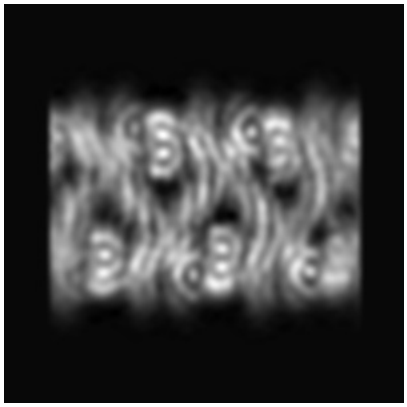
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections (i)

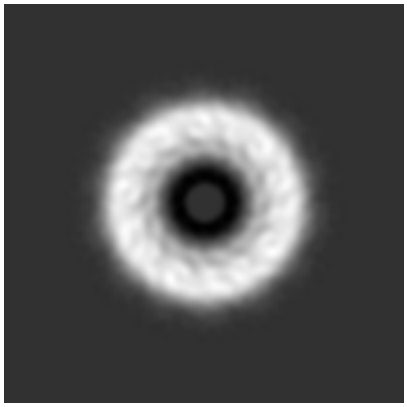
6.1.1 Primary map



X



Y

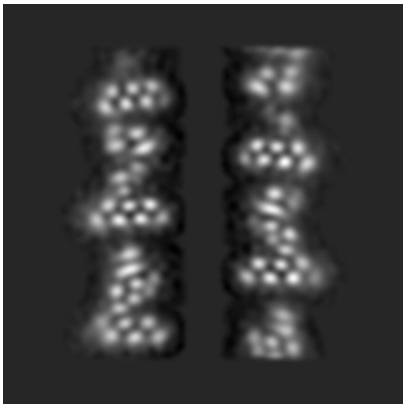


Z

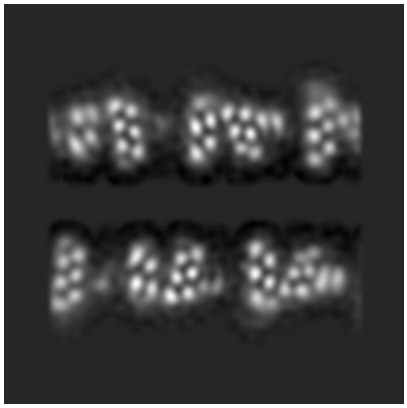
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

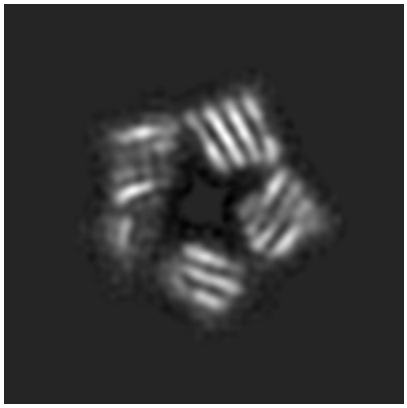
6.2.1 Primary map



X Index: 96



Y Index: 96

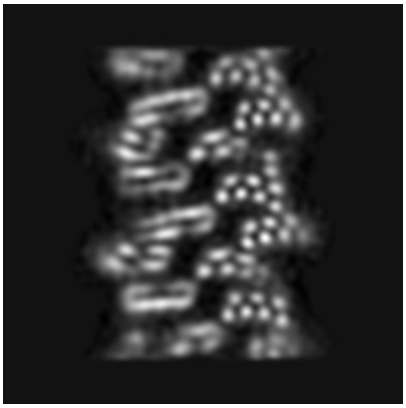


Z Index: 96

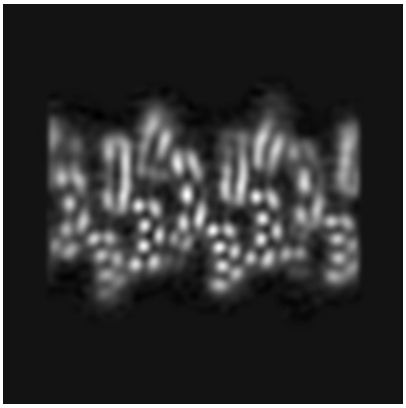
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

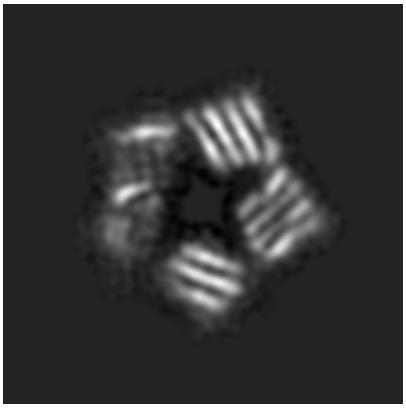
6.3.1 Primary map



X Index: 71



Y Index: 63



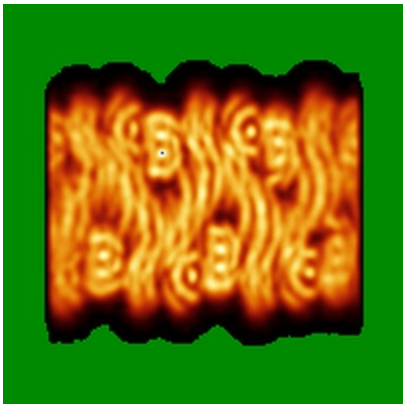
Z Index: 95

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

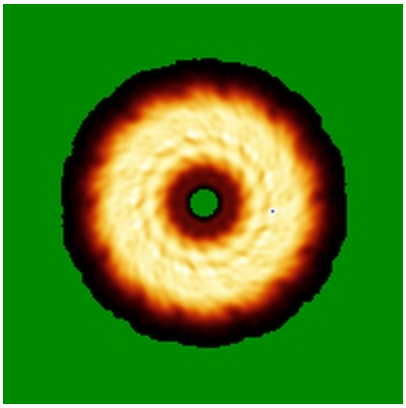
6.4 Orthogonal standard-deviation projections (False-color) (i)

6.4.1 Primary map

X



Y

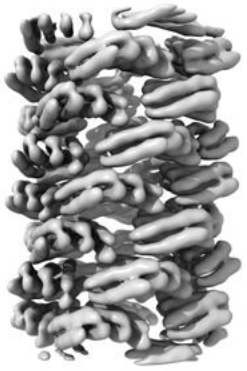


Z

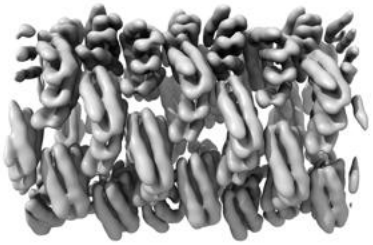
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X



Y

Z

The images above show the 3D surface view of the map at the recommended contour level 0.04. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

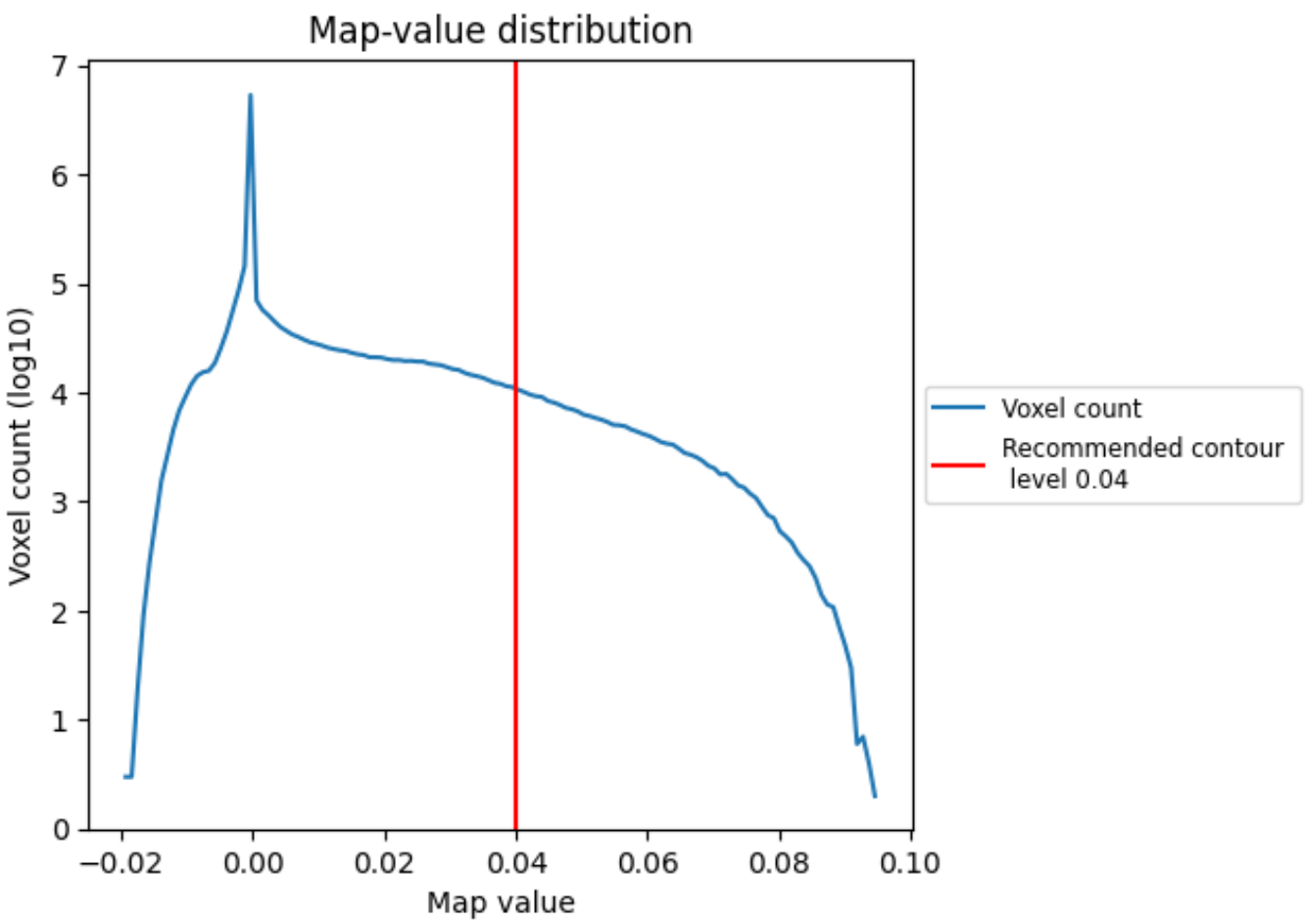
6.6 Mask visualisation (i)

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

7 Map analysis (i)

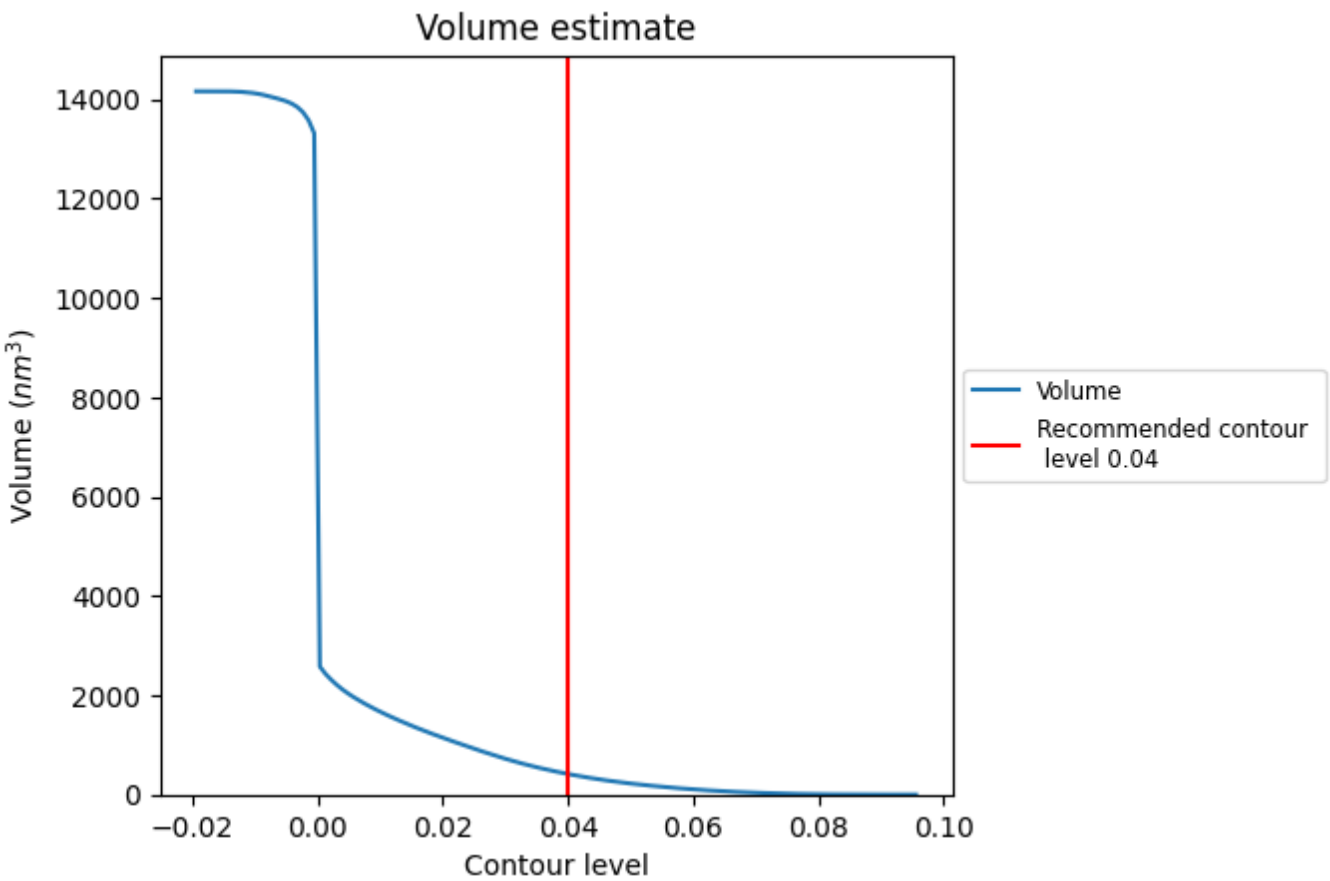
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution (i)



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

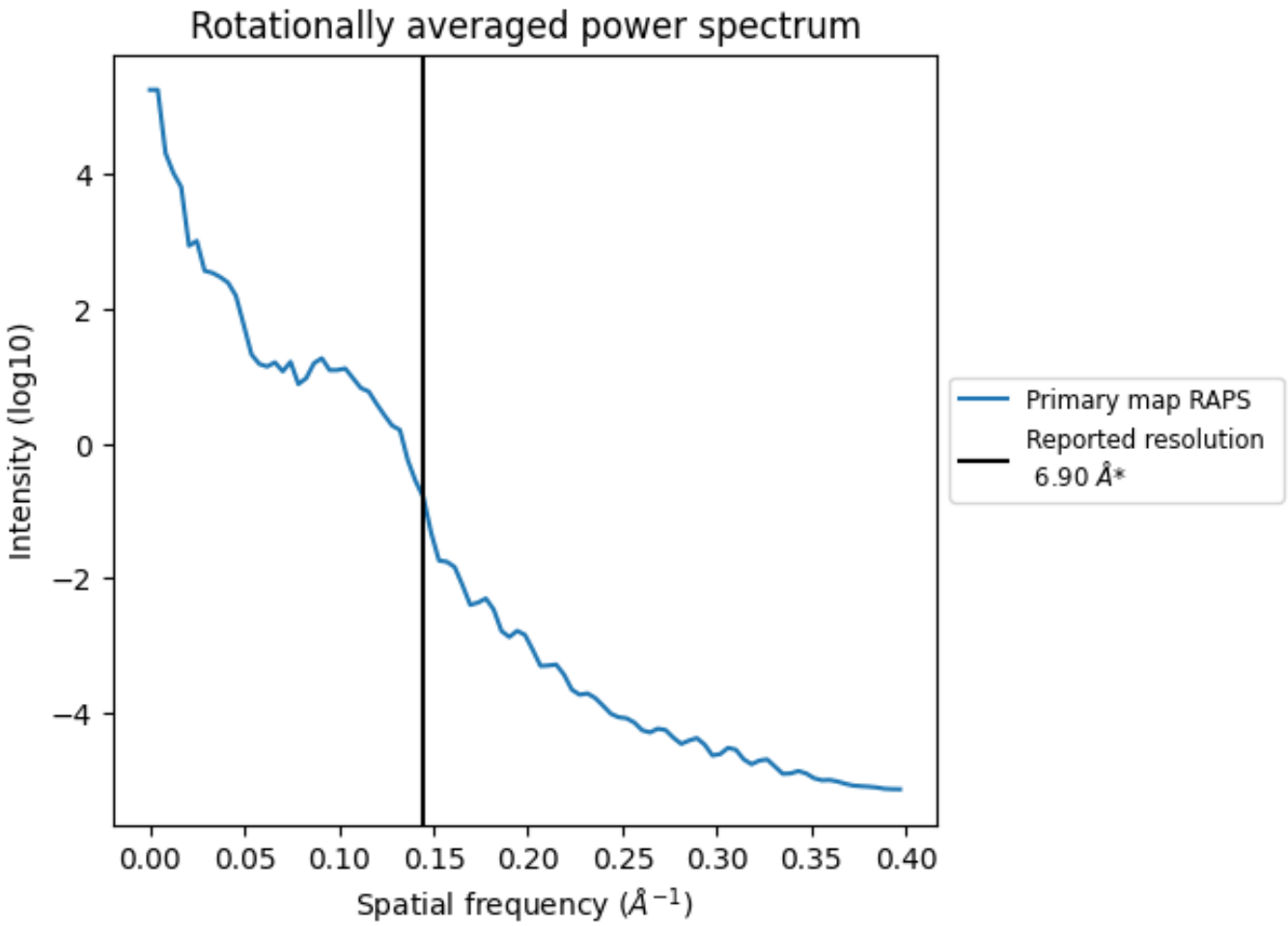
7.2 Volume estimate (i)



The volume at the recommended contour level is 415 nm^3; this corresponds to an approximate mass of 375 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 0.145 Å^{-1}

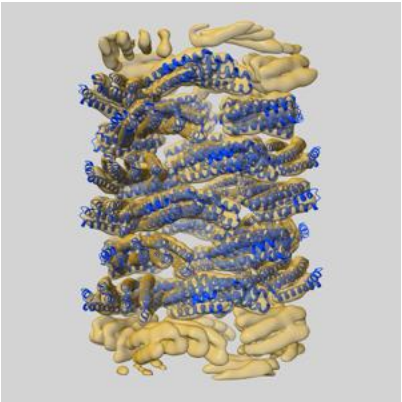
8 Fourier-Shell correlation (i)

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

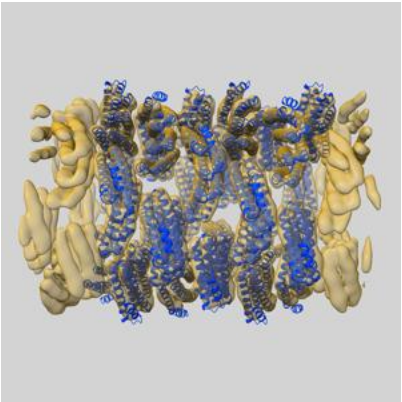
9 Map-model fit (i)

This section contains information regarding the fit between EMDB map EMD-9018 and PDB model 6E9V. Per-residue inclusion information can be found in section 3 on page 6.

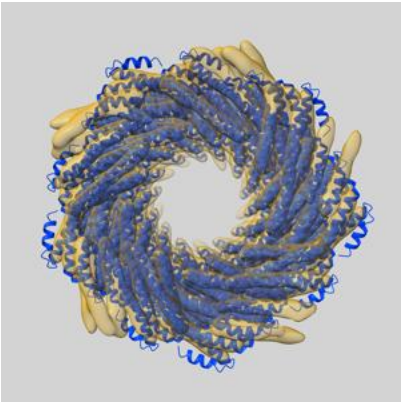
9.1 Map-model overlay (i)



X



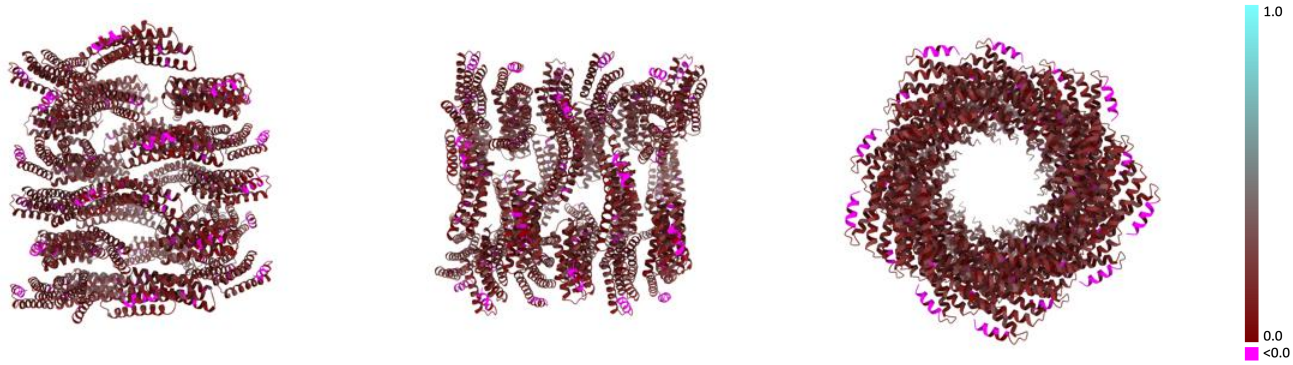
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.04 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

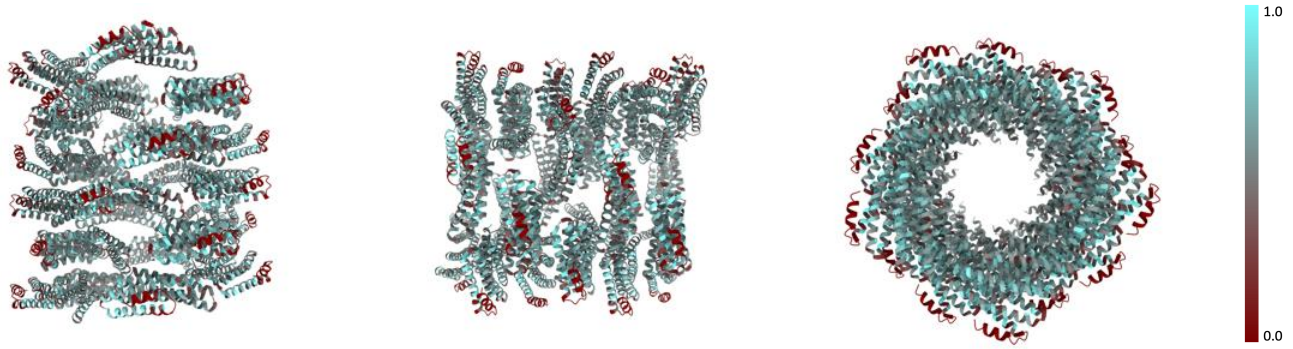
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

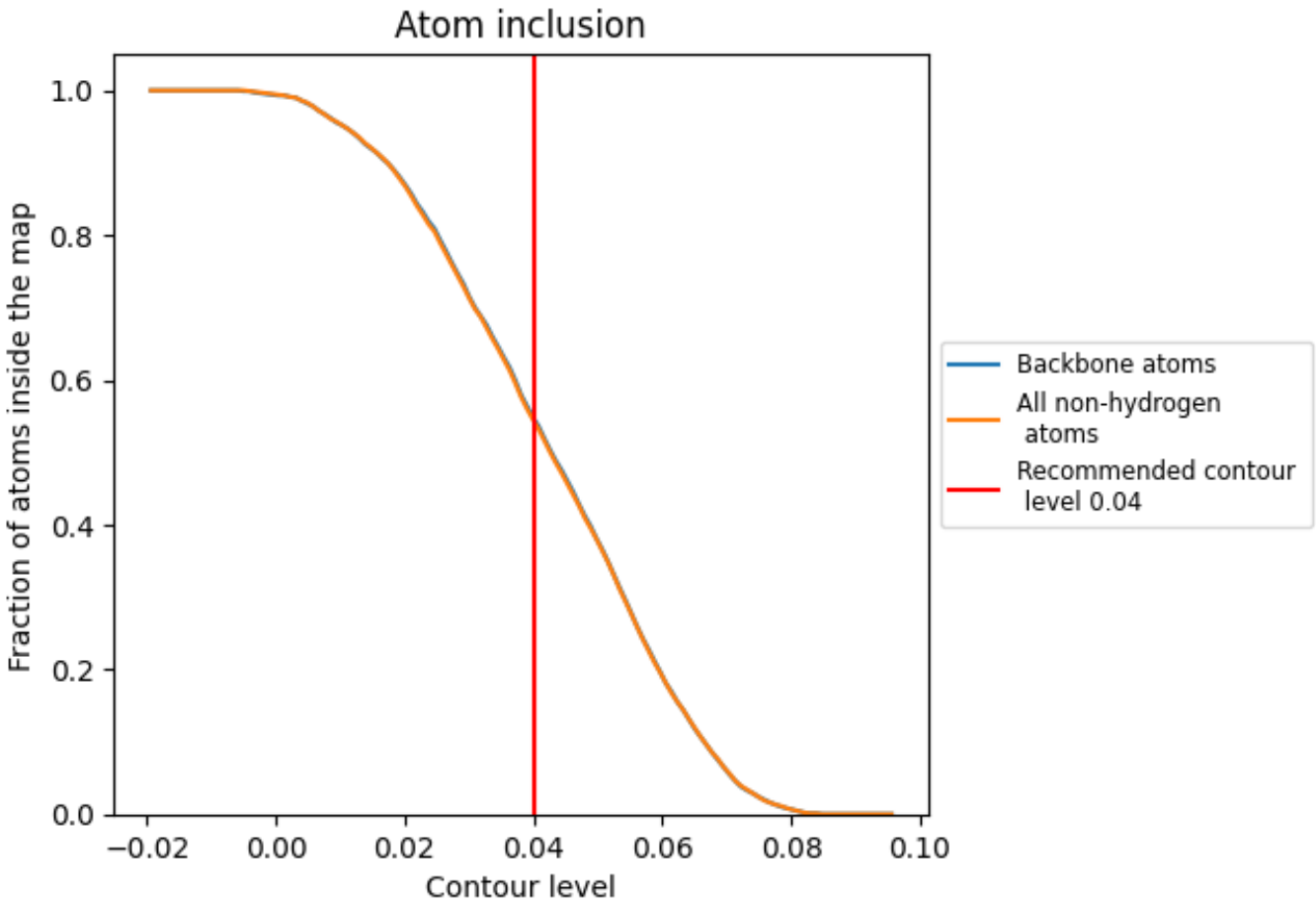
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.04).

9.4 Atom inclusion (i)



At the recommended contour level, 55% of all backbone atoms, 54% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (0.04) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5440	0.1510
A	0.5500	0.1530
B	0.5510	0.1540
C	0.5550	0.1520
D	0.5580	0.1510
E	0.5580	0.1510
F	0.5580	0.1530
G	0.5590	0.1500
H	0.5610	0.1500
I	0.5610	0.1490
J	0.5570	0.1500
K	0.5610	0.1530
L	0.5580	0.1480
M	0.5630	0.1500
N	0.5620	0.1520
O	0.5620	0.1510
P	0.5600	0.1480
Q	0.5580	0.1490
R	0.5640	0.1500
S	0.5580	0.1510
T	0.5550	0.1520
U	0.5530	0.1500
V	0.5530	0.1490
W	0.5510	0.1500
X	0.5390	0.1520
Y	0.5330	0.1540
Z	0.5210	0.1510