Full wwPDB/EMDataBank EM Map/Model Validation Report (i)

Nov 21, 2016 – 08:44 PM EST

PDB ID	:	5KYH
EMDB ID:	:	EMD-8298
Title	:	Structure of Iho670 Flagellar-like Filament
Authors	:	Braun, T.; Vos, M.; Kalisman, N.; Sherman, N.E.; Rachel, R.; Wirth, R.; Schroeder, G.F.; Egelman, E.H.
Deposited on	:	2016-07-21
Resolution	:	4.00 Å(reported)

This is a Full wwPDB/EMDataBank EM Map/Model Validation Report for a publicly released PDB/EMDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
http://wwpdb.org/validation/2016/EMValidationReportHelp
with specific help available everywhere you see the (i) symbol.

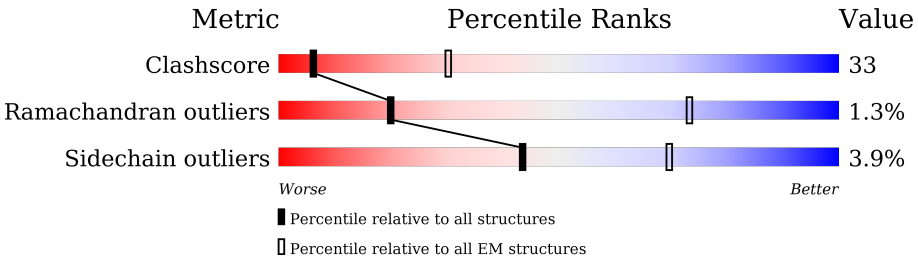
MolProbity	:	4.02b-467
Mogul	:	unknown
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
EM map analysis	:	NOT EXECUTED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP)	:	rb-20028320

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 4.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. 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%

Mol	Chain	Length	Quality of chain
1	A	303	53% 25% • • 20%
1	B	303	53% 25% • • 20%
1	C	303	52% 25% • • 20%
1	D	303	53% 24% • • 20%
1	E	303	52% 25% • • 20%
1	F	303	52% 25% • • 20%
1	G	303	52% 25% • • 20%
1	H	303	50% 27% • • 20%
1	I	303	50% 28% • • 20%

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Mol	Chain	Length	Quality of chain
1	J	303	50% 28% 20%
1	K	303	50% 27% 20%
1	L	303	50% 28% 20%
1	M	303	50% 28% 20%
1	N	303	50% 28% 20%
1	O	303	52% 25% 20%
1	P	303	52% 25% 20%
1	Q	303	52% 25% 20%
1	R	303	53% 24% 20%
1	S	303	53% 25% 20%
1	T	303	53% 25% 20%
1	U	303	53% 24% 20%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 38892 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Iho670.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	B	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	C	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	D	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	E	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	F	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	G	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	H	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	I	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	J	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	K	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	L	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	M	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	N	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	O	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	P	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	Q	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		

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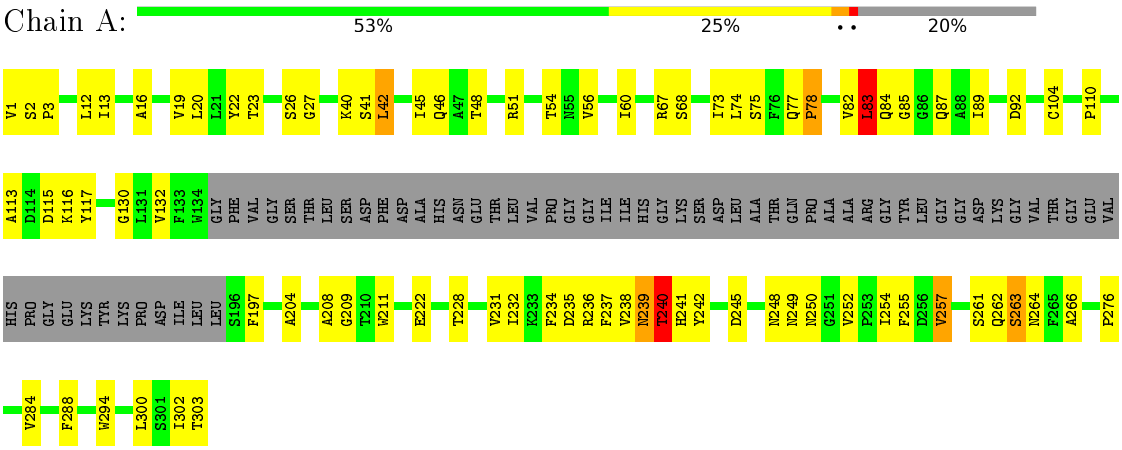
Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	S	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	T	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		
1	U	242	Total	C	N	O	S	0	0
			1852	1193	301	353	5		

3 Residue-property plots (i)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. 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.

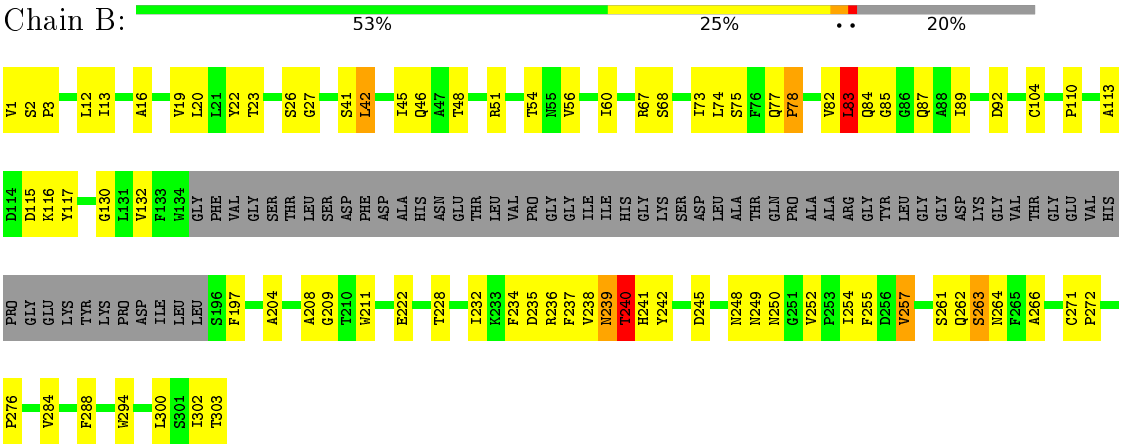
- Molecule 1: Iho670

Chain A:



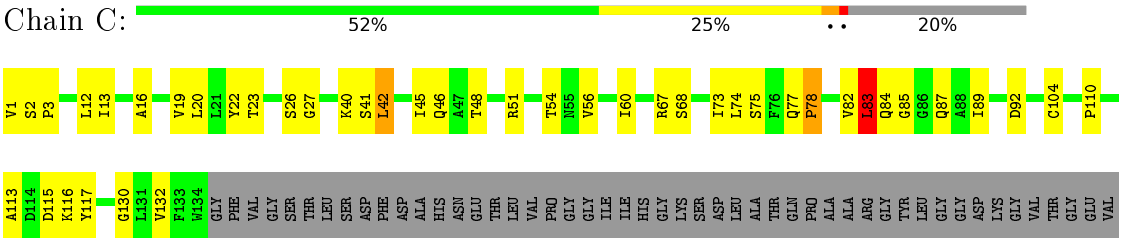
- Molecule 1: Iho670

Chain B:



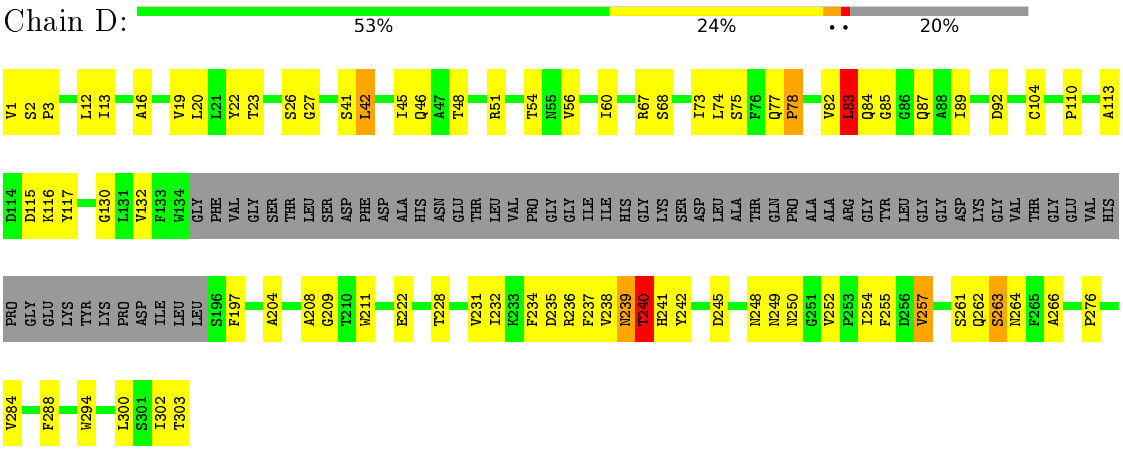
- Molecule 1: Iho670

Chain C:



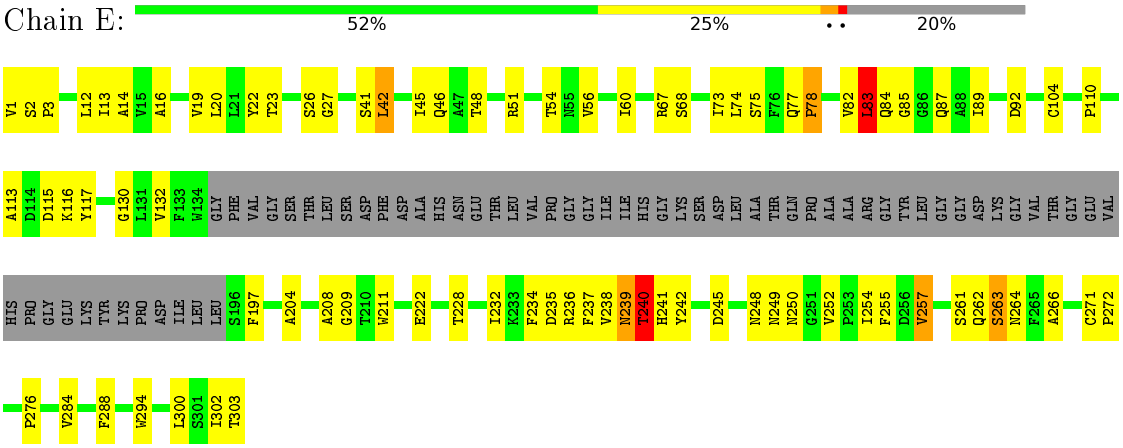
- Molecule 1: Iho670

Chain D:



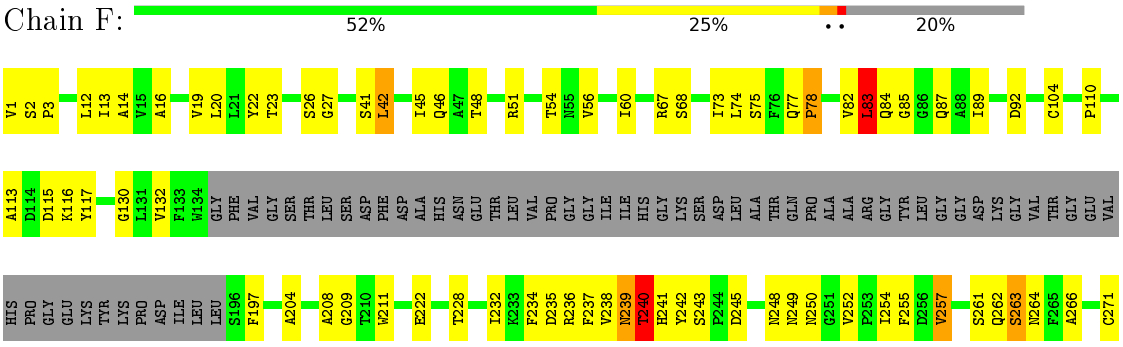
- Molecule 1: Iho670

Chain E:



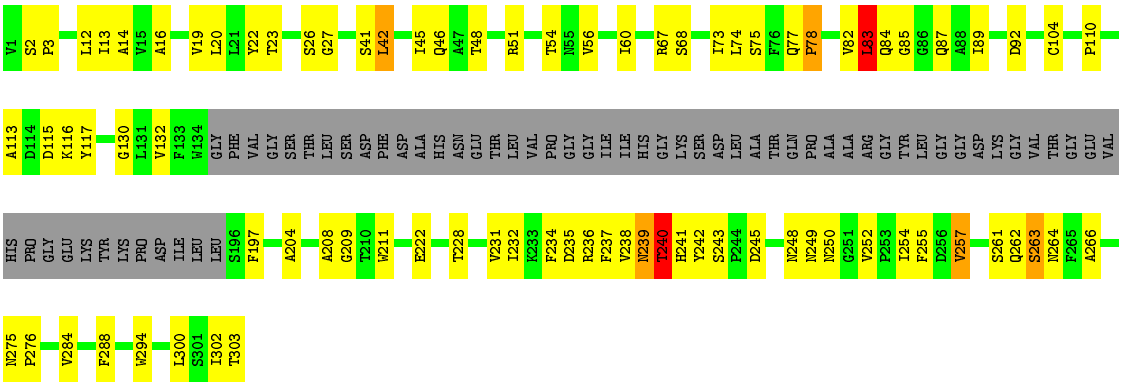
- Molecule 1: Iho670

Chain F:



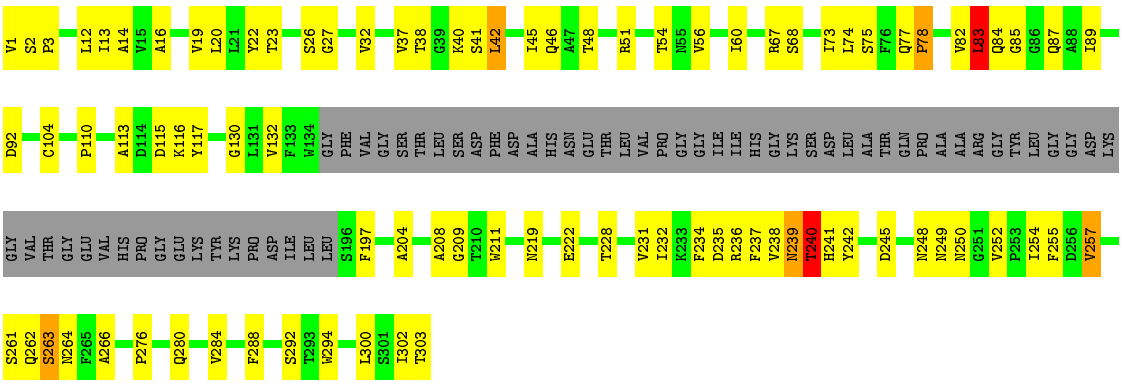
- Molecule 1: Iho670

Chain G:



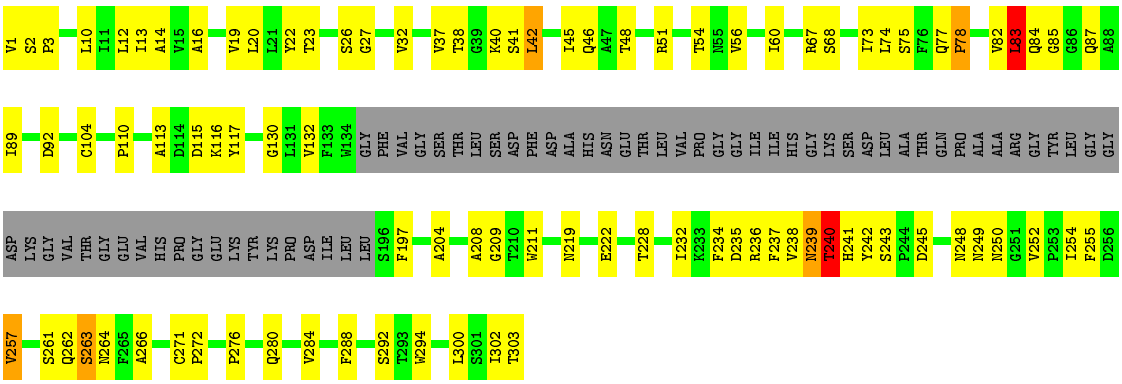
- Molecule 1: Iho670

Chain H:



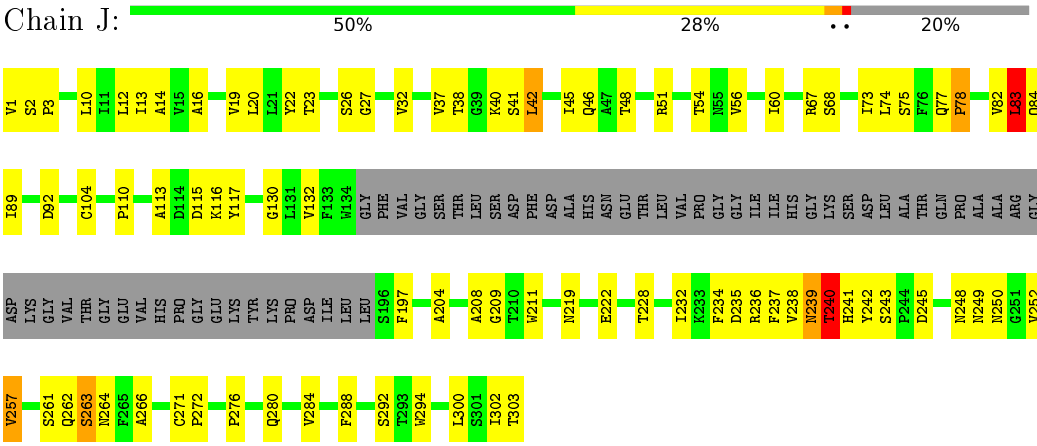
- Molecule 1: Iho670

Chain I:



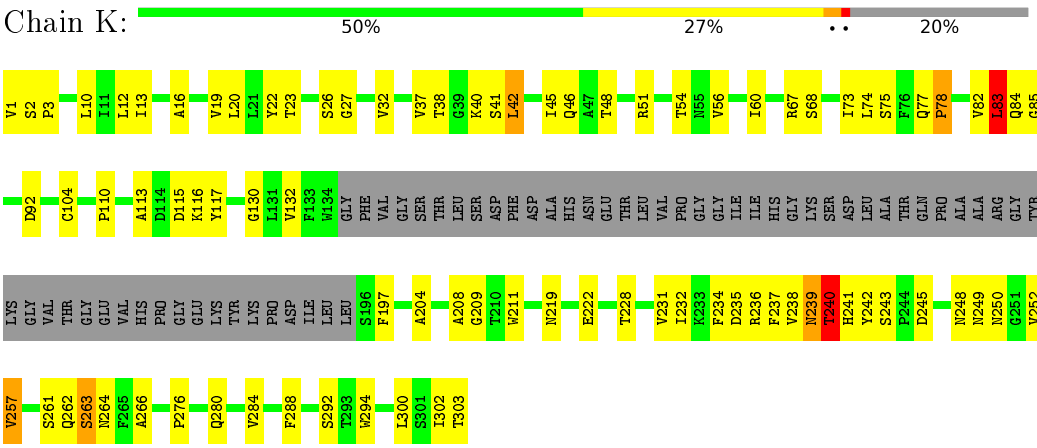
- Molecule 1: Iho670

Chain J:



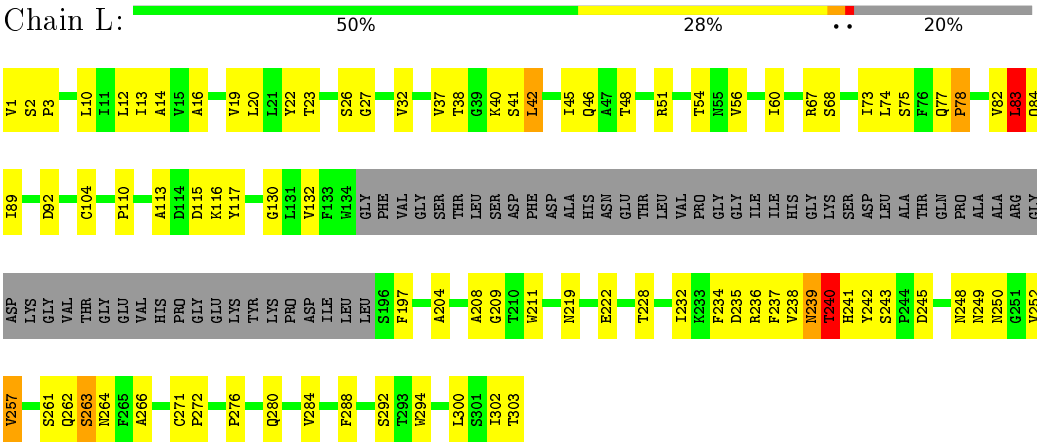
- Molecule 1: Iho670

Chain K:



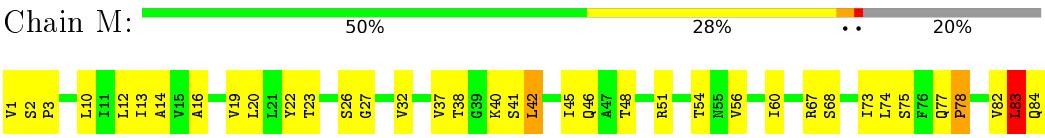
- Molecule 1: Iho670

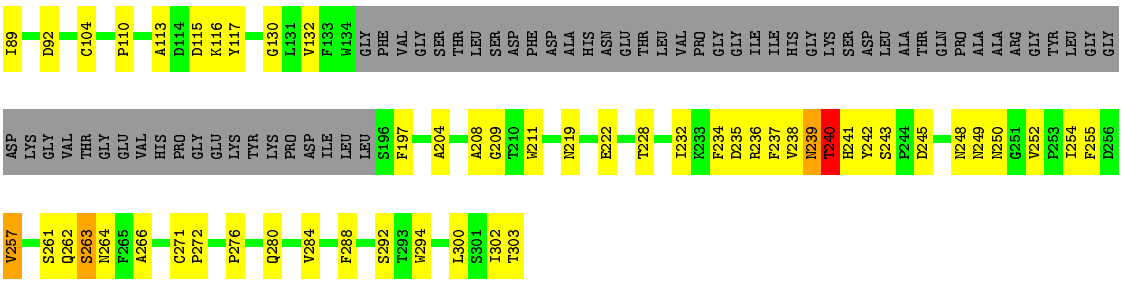
Chain L:



- Molecule 1: Iho670

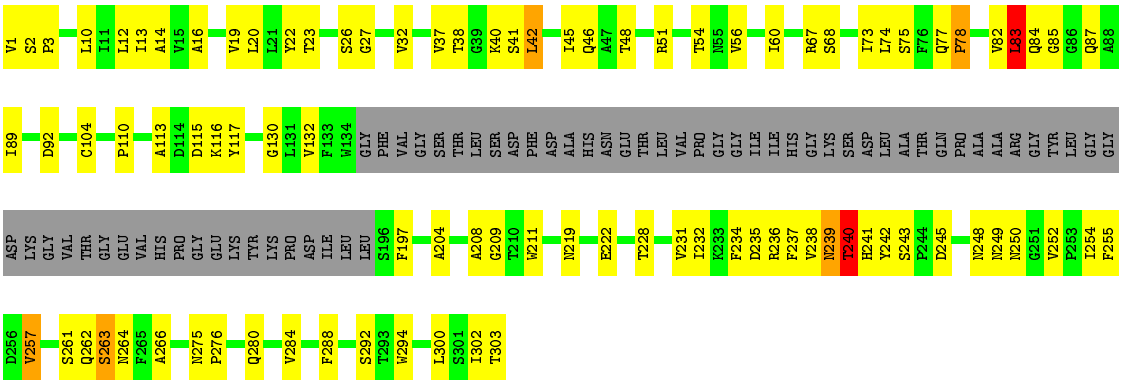
Chain M:





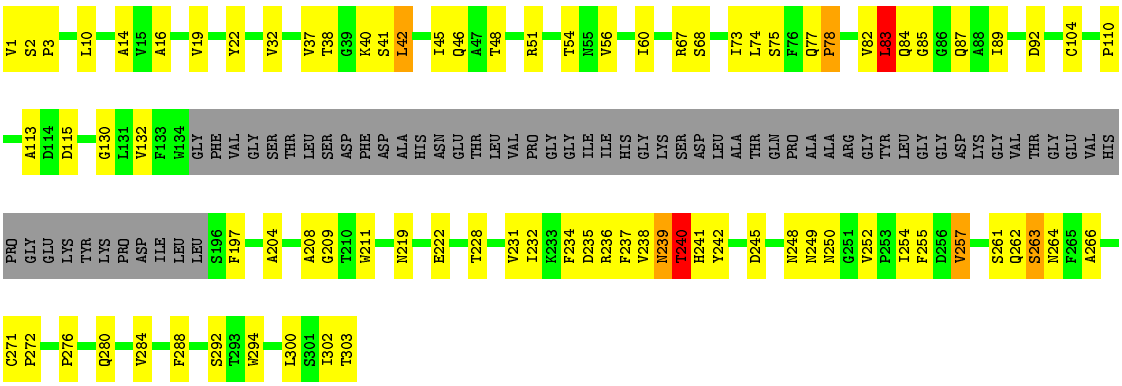
• Molecule 1: Iho670

Chain N:



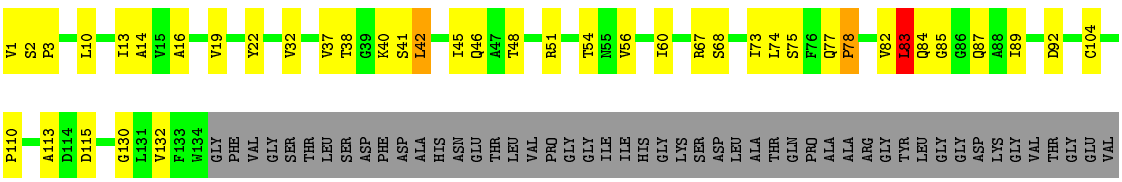
• Molecule 1: Iho670

Chain O:



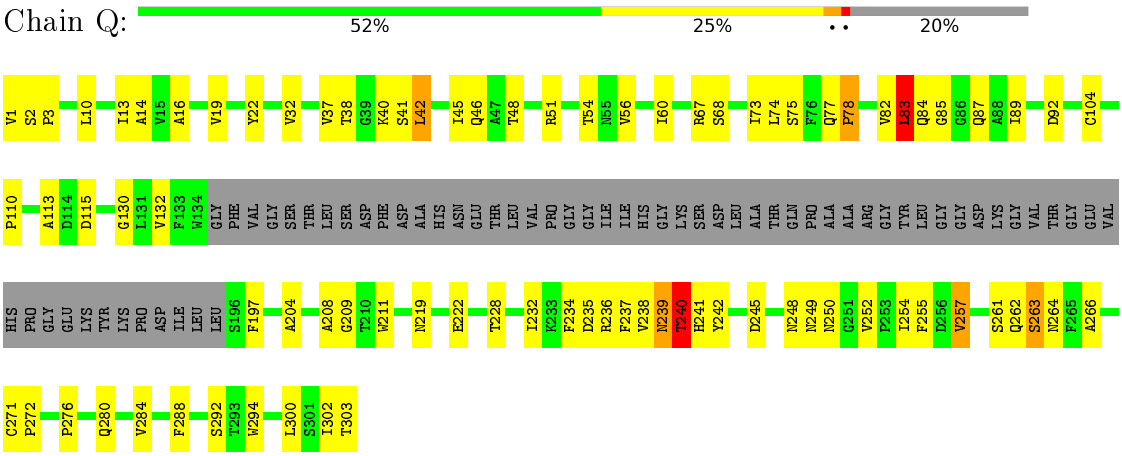
• Molecule 1: Iho670

Chain P:



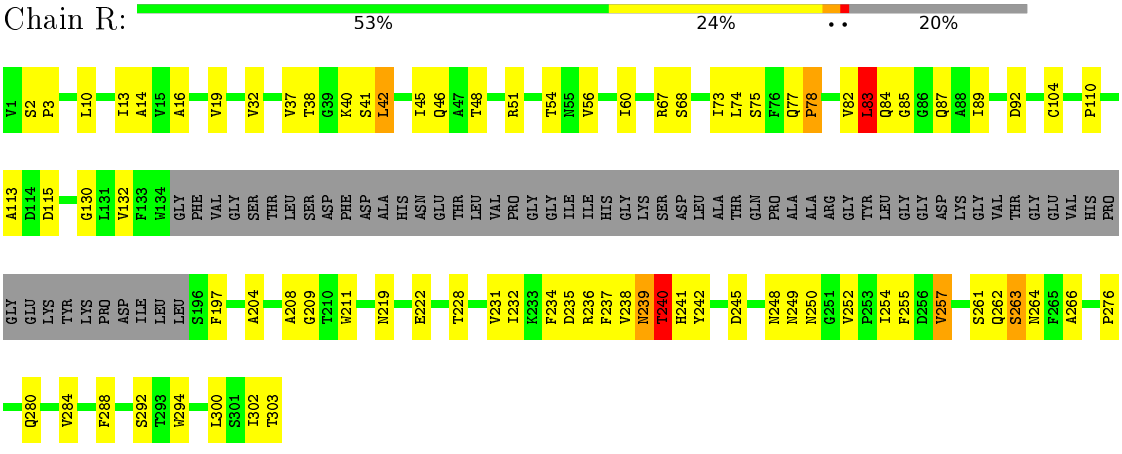
- Molecule 1: Iho670

Chain Q:



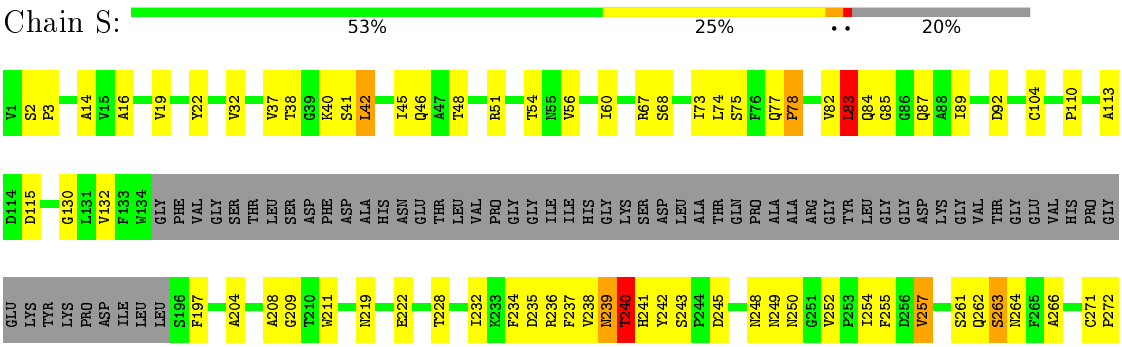
- Molecule 1: Iho670

Chain R:



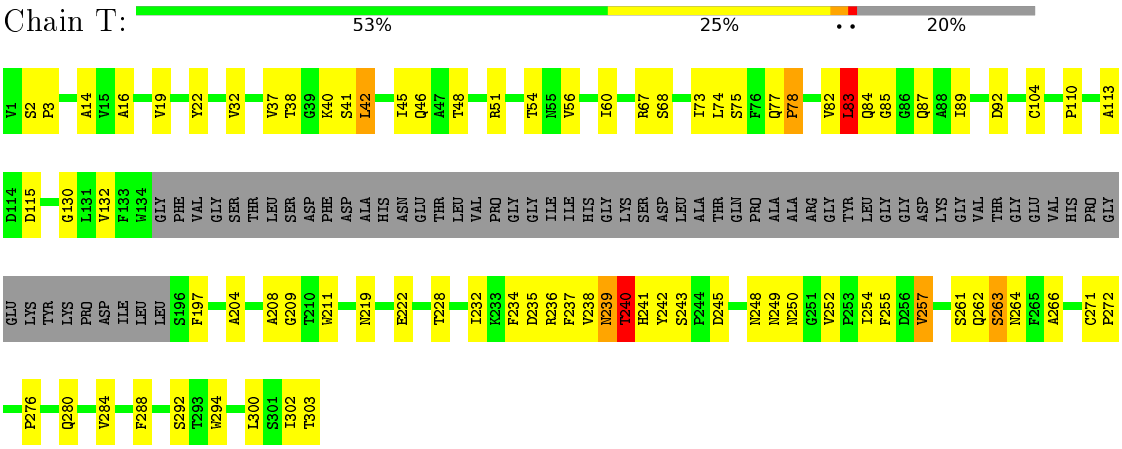
- Molecule 1: Iho670

Chain S:



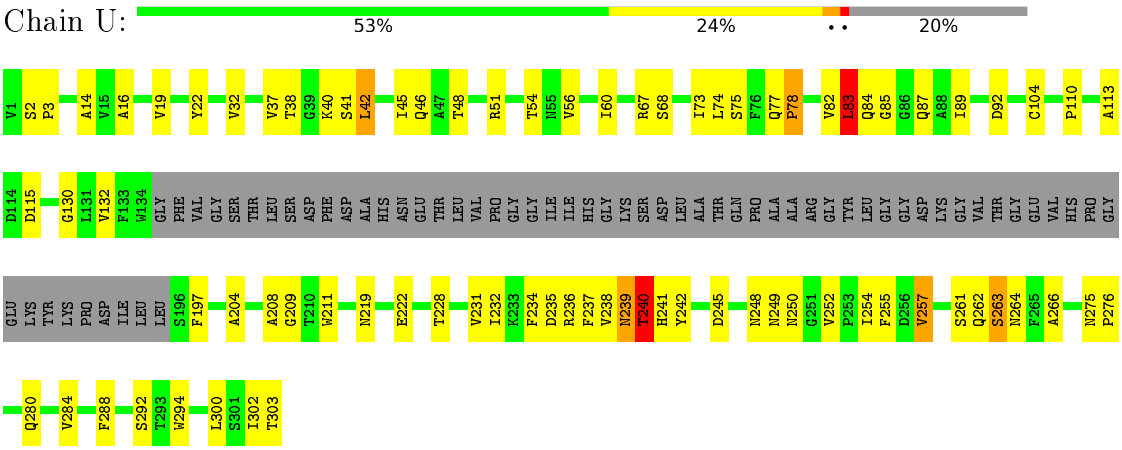
- Molecule 1: Iho670

Chain T:



- Molecule 1: Iho670

Chain U:



4 Experimental information (i)

Property	Value	Source
Reconstruction method	HELICAL	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of segments used	146696	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	Not provided	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	Not provided	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>2$	RMSZ	#$\|Z\|>2$
1	A	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	B	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	C	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	D	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	E	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	F	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	G	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	H	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	I	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	J	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	K	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	L	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	M	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	N	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	O	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	P	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	Q	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	R	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	S	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	T	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
1	U	0.68	1/1897 (0.1%)	0.82	2/2603 (0.1%)
All	All	0.68	21/39837 (0.1%)	0.82	42/54663 (0.1%)

All (21) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	222	GLU	CG-CD	7.70	1.63	1.51
1	S	222	GLU	CG-CD	7.69	1.63	1.51
1	H	222	GLU	CG-CD	7.68	1.63	1.51
1	U	222	GLU	CG-CD	7.68	1.63	1.51
1	L	222	GLU	CG-CD	7.67	1.63	1.51
1	R	222	GLU	CG-CD	7.67	1.63	1.51
1	M	222	GLU	CG-CD	7.66	1.63	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	222	GLU	CG-CD	7.66	1.63	1.51
1	G	222	GLU	CG-CD	7.66	1.63	1.51
1	D	222	GLU	CG-CD	7.65	1.63	1.51
1	O	222	GLU	CG-CD	7.65	1.63	1.51
1	J	222	GLU	CG-CD	7.65	1.63	1.51
1	T	222	GLU	CG-CD	7.64	1.63	1.51
1	A	222	GLU	CG-CD	7.63	1.63	1.51
1	B	222	GLU	CG-CD	7.63	1.63	1.51
1	P	222	GLU	CG-CD	7.63	1.63	1.51
1	Q	222	GLU	CG-CD	7.63	1.63	1.51
1	C	222	GLU	CG-CD	7.62	1.63	1.51
1	E	222	GLU	CG-CD	7.62	1.63	1.51
1	K	222	GLU	CG-CD	7.62	1.63	1.51
1	I	222	GLU	CG-CD	7.61	1.63	1.51

All (42) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	92	ASP	CB-CG-OD1	5.83	123.55	118.30
1	T	92	ASP	CB-CG-OD1	5.81	123.53	118.30
1	D	92	ASP	CB-CG-OD1	5.80	123.52	118.30
1	K	92	ASP	CB-CG-OD1	5.79	123.52	118.30
1	J	92	ASP	CB-CG-OD1	5.77	123.49	118.30
1	M	92	ASP	CB-CG-OD1	5.76	123.49	118.30
1	E	92	ASP	CB-CG-OD1	5.76	123.49	118.30
1	A	92	ASP	CB-CG-OD1	5.76	123.49	118.30
1	P	92	ASP	CB-CG-OD1	5.76	123.48	118.30
1	U	92	ASP	CB-CG-OD1	5.76	123.48	118.30
1	I	92	ASP	CB-CG-OD1	5.76	123.48	118.30
1	H	92	ASP	CB-CG-OD1	5.75	123.48	118.30
1	B	92	ASP	CB-CG-OD1	5.75	123.47	118.30
1	F	92	ASP	CB-CG-OD1	5.75	123.47	118.30
1	L	92	ASP	CB-CG-OD1	5.73	123.46	118.30
1	O	92	ASP	CB-CG-OD1	5.72	123.45	118.30
1	G	92	ASP	CB-CG-OD1	5.72	123.45	118.30
1	R	92	ASP	CB-CG-OD1	5.71	123.44	118.30
1	C	92	ASP	CB-CG-OD1	5.70	123.43	118.30
1	Q	92	ASP	CB-CG-OD1	5.70	123.43	118.30
1	S	92	ASP	CB-CG-OD1	5.70	123.43	118.30
1	F	78	PRO	C-N-CD	5.29	139.50	128.40
1	J	78	PRO	C-N-CD	5.28	139.49	128.40
1	P	78	PRO	C-N-CD	5.28	139.49	128.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	78	PRO	C-N-CD	5.28	139.48	128.40
1	U	78	PRO	C-N-CD	5.27	139.47	128.40
1	D	78	PRO	C-N-CD	5.27	139.47	128.40
1	L	78	PRO	C-N-CD	5.27	139.47	128.40
1	M	78	PRO	C-N-CD	5.27	139.47	128.40
1	Q	78	PRO	C-N-CD	5.27	139.47	128.40
1	R	78	PRO	C-N-CD	5.27	139.46	128.40
1	I	78	PRO	C-N-CD	5.26	139.45	128.40
1	K	78	PRO	C-N-CD	5.26	139.45	128.40
1	A	78	PRO	C-N-CD	5.26	139.45	128.40
1	B	78	PRO	C-N-CD	5.26	139.45	128.40
1	T	78	PRO	C-N-CD	5.26	139.45	128.40
1	E	78	PRO	C-N-CD	5.26	139.44	128.40
1	N	78	PRO	C-N-CD	5.26	139.44	128.40
1	G	78	PRO	C-N-CD	5.25	139.43	128.40
1	S	78	PRO	C-N-CD	5.25	139.42	128.40
1	H	78	PRO	C-N-CD	5.24	139.41	128.40
1	O	78	PRO	C-N-CD	5.23	139.39	128.40

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	1852	0	1820	141	0
1	B	1852	0	1820	137	0
1	C	1852	0	1820	139	0
1	D	1852	0	1820	139	0
1	E	1852	0	1820	140	0
1	F	1852	0	1820	146	0
1	G	1852	0	1820	137	0
1	H	1852	0	1820	194	0
1	I	1852	0	1820	197	0
1	J	1852	0	1820	194	0
1	K	1852	0	1820	191	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	1852	0	1820	195	0
1	M	1852	0	1820	192	0
1	N	1852	0	1820	194	0
1	O	1852	0	1820	143	0
1	P	1852	0	1820	147	0
1	Q	1852	0	1820	139	0
1	R	1852	0	1820	138	0
1	S	1852	0	1820	139	0
1	T	1852	0	1820	135	0
1	U	1852	0	1820	137	0
All	All	38892	0	38220	2572	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 33.

All (2572) 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:K:117:TYR:CZ	1:R:302:ILE:CD1	2.00	1.45
1:D:27:GLY:CA	1:K:294:TRP:HZ3	1.29	1.44
1:C:117:TYR:CZ	1:J:302:ILE:HD11	1.53	1.44
1:L:117:TYR:CZ	1:S:302:ILE:HD11	1.53	1.44
1:M:117:TYR:CZ	1:T:302:ILE:HD11	1.52	1.44
1:N:117:TYR:CZ	1:U:302:ILE:HD11	1.52	1.44
1:A:27:GLY:CA	1:H:294:TRP:HZ3	1.28	1.44
1:G:27:GLY:CA	1:N:294:TRP:HZ3	1.30	1.43
1:D:27:GLY:HA2	1:K:294:TRP:CZ3	1.51	1.43
1:C:27:GLY:HA2	1:J:294:TRP:CZ3	1.53	1.43
1:F:27:GLY:HA2	1:M:294:TRP:CZ3	1.51	1.43
1:J:117:TYR:CZ	1:Q:302:ILE:HD11	1.53	1.43
1:B:27:GLY:HA2	1:I:294:TRP:CZ3	1.52	1.43
1:A:27:GLY:HA2	1:H:294:TRP:CZ3	1.51	1.43
1:B:117:TYR:CZ	1:I:302:ILE:HD11	1.54	1.42
1:I:117:TYR:CZ	1:P:302:ILE:HD11	1.53	1.42
1:H:27:GLY:CA	1:O:294:TRP:HZ3	1.30	1.42
1:H:117:TYR:CZ	1:O:302:ILE:HD11	1.54	1.42
1:J:27:GLY:HA2	1:Q:294:TRP:CZ3	1.53	1.42
1:L:27:GLY:HA2	1:S:294:TRP:CZ3	1.53	1.42
1:G:117:TYR:CZ	1:N:302:ILE:HD11	1.54	1.42
1:I:27:GLY:CA	1:P:294:TRP:HZ3	1.31	1.42
1:E:27:GLY:HA2	1:L:294:TRP:CZ3	1.53	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:27:GLY:CA	1:M:294:TRP:HZ3	1.29	1.42
1:G:27:GLY:HA2	1:N:294:TRP:CZ3	1.53	1.42
1:M:27:GLY:HA2	1:T:294:TRP:CZ3	1.54	1.42
1:E:117:TYR:CZ	1:L:302:ILE:HD11	1.53	1.41
1:K:117:TYR:CZ	1:R:302:ILE:HD11	1.51	1.41
1:H:117:TYR:CZ	1:O:302:ILE:CD1	2.03	1.41
1:A:117:TYR:CZ	1:H:302:ILE:HD11	1.55	1.41
1:C:27:GLY:CA	1:J:294:TRP:HZ3	1.31	1.41
1:B:27:GLY:CA	1:I:294:TRP:HZ3	1.29	1.41
1:F:117:TYR:CZ	1:M:302:ILE:HD11	1.55	1.41
1:M:117:TYR:CZ	1:T:302:ILE:CD1	2.03	1.41
1:I:27:GLY:HA2	1:P:294:TRP:CZ3	1.53	1.41
1:D:117:TYR:CZ	1:K:302:ILE:HD11	1.55	1.41
1:H:27:GLY:HA2	1:O:294:TRP:CZ3	1.53	1.40
1:K:27:GLY:CA	1:R:294:TRP:HZ3	1.33	1.40
1:L:27:GLY:CA	1:S:294:TRP:HZ3	1.31	1.40
1:N:27:GLY:HA2	1:U:294:TRP:CZ3	1.54	1.40
1:G:117:TYR:CZ	1:N:302:ILE:CD1	2.04	1.40
1:I:117:TYR:CZ	1:P:302:ILE:CD1	2.03	1.40
1:E:117:TYR:CZ	1:L:302:ILE:CD1	2.03	1.39
1:D:117:TYR:CZ	1:K:302:ILE:CD1	2.05	1.39
1:J:27:GLY:CA	1:Q:294:TRP:HZ3	1.31	1.39
1:E:27:GLY:CA	1:L:294:TRP:HZ3	1.30	1.39
1:C:117:TYR:CZ	1:J:302:ILE:CD1	2.03	1.39
1:N:117:TYR:CZ	1:U:302:ILE:CD1	2.03	1.39
1:B:117:TYR:CZ	1:I:302:ILE:CD1	2.04	1.39
1:L:117:TYR:CZ	1:S:302:ILE:CD1	2.04	1.39
1:A:117:TYR:CZ	1:H:302:ILE:CD1	2.05	1.39
1:N:27:GLY:CA	1:U:294:TRP:HZ3	1.32	1.39
1:J:117:TYR:CZ	1:Q:302:ILE:CD1	2.04	1.39
1:F:117:TYR:CZ	1:M:302:ILE:CD1	2.05	1.38
1:K:117:TYR:OH	1:R:302:ILE:CD1	1.69	1.38
1:M:27:GLY:CA	1:T:294:TRP:HZ3	1.32	1.38
1:K:27:GLY:HA2	1:R:294:TRP:CZ3	1.57	1.37
1:I:117:TYR:OH	1:P:302:ILE:CD1	1.73	1.36
1:C:117:TYR:OH	1:J:302:ILE:CD1	1.74	1.36
1:M:117:TYR:OH	1:T:302:ILE:CD1	1.75	1.35
1:H:117:TYR:OH	1:O:302:ILE:CD1	1.71	1.34
1:B:117:TYR:OH	1:I:302:ILE:CD1	1.75	1.34
1:G:117:TYR:OH	1:N:302:ILE:CD1	1.73	1.34
1:F:117:TYR:OH	1:M:302:ILE:CD1	1.75	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:117:TYR:OH	1:L:302:ILE:CD1	1.73	1.33
1:K:22:TYR:CE1	1:R:83:LEU:HD11	1.62	1.33
1:A:117:TYR:OH	1:H:302:ILE:CD1	1.75	1.33
1:I:22:TYR:CE1	1:P:83:LEU:HD11	1.65	1.32
1:M:22:TYR:CE1	1:T:83:LEU:HD11	1.65	1.32
1:J:22:TYR:CE1	1:Q:83:LEU:HD11	1.65	1.32
1:L:117:TYR:OH	1:S:302:ILE:CD1	1.75	1.32
1:E:22:TYR:CE1	1:L:83:LEU:HD11	1.64	1.31
1:N:117:TYR:OH	1:U:302:ILE:CD1	1.75	1.31
1:C:22:TYR:CE1	1:J:83:LEU:HD11	1.65	1.30
1:F:22:TYR:CE1	1:M:83:LEU:HD11	1.66	1.30
1:H:22:TYR:CE1	1:O:83:LEU:HD11	1.65	1.30
1:D:117:TYR:OH	1:K:302:ILE:CD1	1.75	1.30
1:J:117:TYR:OH	1:Q:302:ILE:CD1	1.74	1.30
1:N:22:TYR:CE1	1:U:83:LEU:HD11	1.65	1.30
1:D:22:TYR:CE1	1:K:83:LEU:HD11	1.66	1.30
1:B:22:TYR:CE1	1:I:83:LEU:HD11	1.65	1.30
1:G:22:TYR:CE1	1:N:83:LEU:HD11	1.65	1.29
1:A:22:TYR:CE1	1:H:83:LEU:HD11	1.65	1.29
1:L:22:TYR:CE1	1:S:83:LEU:HD11	1.65	1.28
1:S:236:ARG:O	1:S:255:PHE:CB	1.82	1.28
1:F:19:VAL:HB	1:M:37:VAL:CG2	1.63	1.28
1:D:236:ARG:O	1:D:255:PHE:CB	1.82	1.28
1:G:236:ARG:O	1:G:255:PHE:CB	1.82	1.27
1:B:19:VAL:HB	1:I:37:VAL:CG2	1.64	1.27
1:Q:236:ARG:O	1:Q:255:PHE:CB	1.82	1.27
1:G:235:ASP:OD2	1:G:257:VAL:HG21	1.10	1.27
1:O:236:ARG:O	1:O:255:PHE:CB	1.82	1.27
1:U:236:ARG:O	1:U:255:PHE:CB	1.82	1.27
1:P:236:ARG:O	1:P:255:PHE:CB	1.82	1.27
1:Q:235:ASP:OD2	1:Q:257:VAL:HG21	1.10	1.27
1:T:236:ARG:O	1:T:255:PHE:CB	1.82	1.27
1:H:19:VAL:HB	1:O:37:VAL:CG2	1.64	1.27
1:R:236:ARG:O	1:R:255:PHE:CB	1.82	1.27
1:C:236:ARG:O	1:C:255:PHE:CB	1.82	1.26
1:N:235:ASP:OD2	1:N:257:VAL:HG21	1.10	1.26
1:L:19:VAL:HB	1:S:37:VAL:CG2	1.65	1.26
1:N:236:ARG:O	1:N:255:PHE:CB	1.82	1.26
1:F:235:ASP:OD2	1:F:257:VAL:HG21	1.10	1.26
1:H:236:ARG:O	1:H:255:PHE:CB	1.82	1.26
1:P:235:ASP:OD2	1:P:257:VAL:HG21	1.10	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:236:ARG:O	1:L:255:PHE:CB	1.82	1.26
1:A:236:ARG:O	1:A:255:PHE:CB	1.82	1.26
1:B:236:ARG:O	1:B:255:PHE:CB	1.82	1.26
1:J:236:ARG:O	1:J:255:PHE:CB	1.82	1.25
1:D:235:ASP:OD2	1:D:257:VAL:HG21	1.10	1.25
1:G:19:VAL:HB	1:N:37:VAL:CG2	1.63	1.25
1:K:236:ARG:O	1:K:255:PHE:CB	1.82	1.25
1:C:19:VAL:HB	1:J:37:VAL:CG2	1.65	1.25
1:I:235:ASP:OD2	1:I:257:VAL:HG21	1.10	1.25
1:J:19:VAL:HB	1:Q:37:VAL:CG2	1.65	1.25
1:F:236:ARG:O	1:F:255:PHE:CB	1.82	1.25
1:I:236:ARG:O	1:I:255:PHE:CB	1.82	1.25
1:M:235:ASP:OD2	1:M:257:VAL:HG21	1.10	1.25
1:D:19:VAL:HB	1:K:37:VAL:CG2	1.64	1.25
1:F:27:GLY:CA	1:M:294:TRP:CZ3	2.14	1.25
1:D:27:GLY:CA	1:K:294:TRP:CZ3	2.14	1.25
1:M:236:ARG:O	1:M:255:PHE:CB	1.82	1.25
1:I:19:VAL:HB	1:P:37:VAL:CG2	1.65	1.25
1:J:235:ASP:OD2	1:J:257:VAL:HG21	1.10	1.25
1:A:19:VAL:HB	1:H:37:VAL:CG2	1.63	1.24
1:E:19:VAL:HB	1:L:37:VAL:CG2	1.65	1.24
1:E:236:ARG:O	1:E:255:PHE:CB	1.82	1.24
1:S:235:ASP:OD2	1:S:257:VAL:HG21	1.10	1.24
1:U:235:ASP:OD2	1:U:257:VAL:HG21	1.10	1.24
1:N:19:VAL:HB	1:U:37:VAL:CG2	1.66	1.24
1:C:235:ASP:OD2	1:C:257:VAL:HG21	1.10	1.23
1:M:19:VAL:HB	1:T:37:VAL:CG2	1.66	1.23
1:T:235:ASP:OD2	1:T:257:VAL:HG21	1.10	1.23
1:E:235:ASP:OD2	1:E:257:VAL:HG21	1.10	1.23
1:B:235:ASP:OD2	1:B:257:VAL:HG21	1.10	1.23
1:K:27:GLY:CA	1:R:294:TRP:CZ3	2.19	1.23
1:K:235:ASP:OD2	1:K:257:VAL:HG21	1.10	1.23
1:K:19:VAL:HB	1:R:37:VAL:CG2	1.66	1.23
1:O:235:ASP:OD2	1:O:257:VAL:HG21	1.10	1.23
1:H:27:GLY:CA	1:O:294:TRP:CZ3	2.16	1.22
1:L:235:ASP:OD2	1:L:257:VAL:HG21	1.10	1.22
1:A:235:ASP:OD2	1:A:257:VAL:HG21	1.10	1.22
1:M:27:GLY:CA	1:T:294:TRP:CZ3	2.18	1.21
1:A:27:GLY:CA	1:H:294:TRP:CZ3	2.14	1.21
1:G:27:GLY:CA	1:N:294:TRP:CZ3	2.15	1.21
1:R:235:ASP:OD2	1:R:257:VAL:HG21	1.10	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:235:ASP:OD2	1:H:257:VAL:HG21	1.10	1.19
1:L:27:GLY:CA	1:S:294:TRP:CZ3	2.17	1.19
1:L:235:ASP:HB3	1:L:257:VAL:HG23	1.23	1.19
1:J:27:GLY:CA	1:Q:294:TRP:CZ3	2.17	1.19
1:B:235:ASP:HB3	1:B:257:VAL:HG23	1.23	1.18
1:E:27:GLY:CA	1:L:294:TRP:CZ3	2.16	1.18
1:D:235:ASP:OD2	1:D:257:VAL:CG2	1.92	1.18
1:N:235:ASP:OD2	1:N:257:VAL:CG2	1.92	1.18
1:U:235:ASP:OD2	1:U:257:VAL:CG2	1.92	1.18
1:G:235:ASP:OD2	1:G:257:VAL:CG2	1.92	1.18
1:K:235:ASP:OD2	1:K:257:VAL:CG2	1.92	1.18
1:Q:235:ASP:OD2	1:Q:257:VAL:CG2	1.92	1.18
1:N:27:GLY:CA	1:U:294:TRP:CZ3	2.18	1.18
1:A:235:ASP:OD2	1:A:257:VAL:CG2	1.92	1.18
1:J:235:ASP:OD2	1:J:257:VAL:CG2	1.92	1.18
1:R:235:ASP:OD2	1:R:257:VAL:CG2	1.92	1.18
1:T:235:ASP:OD2	1:T:257:VAL:CG2	1.92	1.18
1:C:235:ASP:OD2	1:C:257:VAL:CG2	1.92	1.17
1:H:235:ASP:OD2	1:H:257:VAL:CG2	1.92	1.17
1:O:235:ASP:OD2	1:O:257:VAL:CG2	1.92	1.17
1:B:235:ASP:OD2	1:B:257:VAL:CG2	1.92	1.17
1:E:235:ASP:OD2	1:E:257:VAL:CG2	1.92	1.17
1:H:235:ASP:HB3	1:H:257:VAL:HG23	1.23	1.17
1:I:235:ASP:OD2	1:I:257:VAL:CG2	1.92	1.17
1:L:235:ASP:OD2	1:L:257:VAL:CG2	1.92	1.17
1:M:235:ASP:OD2	1:M:257:VAL:CG2	1.92	1.17
1:P:235:ASP:OD2	1:P:257:VAL:CG2	1.92	1.17
1:F:235:ASP:OD2	1:F:257:VAL:CG2	1.92	1.17
1:S:235:ASP:OD2	1:S:257:VAL:CG2	1.92	1.17
1:S:235:ASP:HB3	1:S:257:VAL:HG23	1.23	1.16
1:R:235:ASP:HB3	1:R:257:VAL:HG23	1.23	1.16
1:C:27:GLY:CA	1:J:294:TRP:CZ3	2.16	1.16
1:O:235:ASP:HB3	1:O:257:VAL:HG23	1.23	1.16
1:E:236:ARG:NH1	1:L:280:GLN:HG3	1.61	1.15
1:E:235:ASP:HB3	1:E:257:VAL:HG23	1.23	1.15
1:P:235:ASP:HB3	1:P:257:VAL:HG23	1.23	1.15
1:B:236:ARG:NH1	1:I:280:GLN:HG3	1.62	1.15
1:H:236:ARG:NH1	1:O:280:GLN:HG3	1.61	1.15
1:I:235:ASP:HB3	1:I:257:VAL:HG23	1.23	1.15
1:K:236:ARG:NH1	1:R:280:GLN:HG3	1.60	1.14
1:F:236:ARG:NH1	1:M:280:GLN:HG3	1.62	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:236:ARG:NH1	1:Q:280:GLN:HG3	1.62	1.14
1:F:235:ASP:HB3	1:F:257:VAL:HG23	1.23	1.14
1:I:27:GLY:CA	1:P:294:TRP:CZ3	2.17	1.14
1:A:235:ASP:HB3	1:A:257:VAL:HG23	1.23	1.14
1:L:236:ARG:NH1	1:S:280:GLN:HG3	1.63	1.13
1:B:27:GLY:CA	1:I:294:TRP:CZ3	2.15	1.13
1:A:236:ARG:O	1:A:255:PHE:HB3	1.49	1.13
1:B:236:ARG:O	1:B:255:PHE:HB3	1.49	1.13
1:D:236:ARG:O	1:D:255:PHE:HB3	1.49	1.13
1:G:236:ARG:NH1	1:N:280:GLN:HG3	1.62	1.13
1:E:236:ARG:O	1:E:255:PHE:HB3	1.49	1.13
1:A:236:ARG:NH1	1:H:280:GLN:HG3	1.62	1.12
1:I:236:ARG:NH1	1:P:280:GLN:HG3	1.63	1.12
1:K:235:ASP:HB3	1:K:257:VAL:HG23	1.23	1.12
1:D:236:ARG:NH1	1:K:280:GLN:HG3	1.63	1.12
1:U:235:ASP:HB3	1:U:257:VAL:HG23	1.23	1.11
1:N:236:ARG:NH1	1:U:280:GLN:HG3	1.63	1.11
1:D:235:ASP:HB3	1:D:257:VAL:HG23	1.23	1.11
1:G:236:ARG:O	1:G:255:PHE:HB3	1.49	1.11
1:H:236:ARG:O	1:H:255:PHE:HB3	1.49	1.11
1:M:235:ASP:HB3	1:M:257:VAL:HG23	1.23	1.11
1:U:236:ARG:O	1:U:255:PHE:HB3	1.49	1.10
1:N:235:ASP:HB3	1:N:257:VAL:HG23	1.23	1.10
1:M:236:ARG:NH1	1:T:280:GLN:HG3	1.63	1.10
1:C:236:ARG:NH1	1:J:280:GLN:HG3	1.64	1.09
1:C:235:ASP:HB3	1:C:257:VAL:HG23	1.23	1.09
1:J:236:ARG:O	1:J:255:PHE:HB3	1.49	1.09
1:K:236:ARG:O	1:K:255:PHE:HB3	1.49	1.09
1:S:236:ARG:O	1:S:255:PHE:HB3	1.49	1.09
1:J:235:ASP:HB3	1:J:257:VAL:HG23	1.23	1.09
1:G:235:ASP:HB3	1:G:257:VAL:HG23	1.23	1.09
1:L:236:ARG:O	1:L:255:PHE:HB3	1.49	1.09
1:I:236:ARG:O	1:I:255:PHE:HB3	1.49	1.09
1:Q:235:ASP:HB3	1:Q:257:VAL:HG23	1.23	1.09
1:T:235:ASP:HB3	1:T:257:VAL:HG23	1.23	1.08
1:R:236:ARG:O	1:R:255:PHE:HB3	1.49	1.08
1:P:236:ARG:O	1:P:255:PHE:HB3	1.49	1.08
1:M:236:ARG:O	1:M:255:PHE:HB3	1.49	1.08
1:N:236:ARG:O	1:N:255:PHE:HB3	1.49	1.07
1:A:19:VAL:HB	1:H:37:VAL:CB	1.83	1.07
1:T:236:ARG:O	1:T:255:PHE:HB3	1.49	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:236:ARG:O	1:O:255:PHE:HB3	1.49	1.07
1:Q:236:ARG:O	1:Q:255:PHE:HB3	1.49	1.07
1:F:19:VAL:HB	1:M:37:VAL:CB	1.85	1.06
1:F:236:ARG:O	1:F:255:PHE:HB3	1.49	1.06
1:D:19:VAL:HB	1:K:37:VAL:CB	1.85	1.06
1:K:117:TYR:CE1	1:R:302:ILE:HD12	1.90	1.06
1:D:235:ASP:HB3	1:D:257:VAL:CG2	1.86	1.05
1:K:235:ASP:HB3	1:K:257:VAL:CG2	1.86	1.05
1:U:235:ASP:HB3	1:U:257:VAL:CG2	1.86	1.05
1:A:235:ASP:HB3	1:A:257:VAL:CG2	1.86	1.05
1:A:235:ASP:CB	1:A:257:VAL:HG23	1.87	1.05
1:K:235:ASP:CB	1:K:257:VAL:HG23	1.86	1.05
1:P:235:ASP:CB	1:P:257:VAL:HG23	1.86	1.05
1:R:235:ASP:HB3	1:R:257:VAL:CG2	1.86	1.05
1:R:235:ASP:CB	1:R:257:VAL:HG23	1.86	1.05
1:N:235:ASP:HB3	1:N:257:VAL:CG2	1.86	1.05
1:U:235:ASP:CB	1:U:257:VAL:HG23	1.87	1.05
1:D:235:ASP:CB	1:D:257:VAL:HG23	1.86	1.05
1:F:235:ASP:CB	1:F:257:VAL:HG23	1.87	1.05
1:H:235:ASP:CB	1:H:257:VAL:HG23	1.87	1.05
1:H:235:ASP:HB3	1:H:257:VAL:CG2	1.86	1.05
1:I:235:ASP:CB	1:I:257:VAL:HG23	1.87	1.05
1:S:235:ASP:CB	1:S:257:VAL:HG23	1.86	1.05
1:G:235:ASP:HB3	1:G:257:VAL:CG2	1.86	1.05
1:M:235:ASP:CB	1:M:257:VAL:HG23	1.87	1.05
1:O:235:ASP:HB3	1:O:257:VAL:CG2	1.86	1.05
1:H:19:VAL:HB	1:O:37:VAL:CB	1.86	1.05
1:B:235:ASP:CB	1:B:257:VAL:HG23	1.86	1.04
1:C:236:ARG:O	1:C:255:PHE:HB3	1.49	1.04
1:N:117:TYR:CE1	1:U:302:ILE:HD12	1.92	1.04
1:N:235:ASP:CB	1:N:257:VAL:HG23	1.87	1.04
1:O:235:ASP:CB	1:O:257:VAL:HG23	1.86	1.04
1:M:117:TYR:CE1	1:T:302:ILE:HD12	1.92	1.04
1:B:19:VAL:HB	1:I:37:VAL:CB	1.86	1.04
1:C:235:ASP:CB	1:C:257:VAL:HG23	1.86	1.04
1:C:235:ASP:HB3	1:C:257:VAL:CG2	1.86	1.04
1:C:117:TYR:CE1	1:J:302:ILE:HD12	1.92	1.04
1:I:19:VAL:HB	1:P:37:VAL:CB	1.87	1.04
1:E:235:ASP:HB3	1:E:257:VAL:CG2	1.86	1.04
1:F:236:ARG:O	1:F:255:PHE:CA	2.06	1.04
1:J:236:ARG:O	1:J:255:PHE:CA	2.06	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:235:ASP:HB3	1:M:257:VAL:CG2	1.86	1.04
1:Q:235:ASP:HB3	1:Q:257:VAL:CG2	1.86	1.04
1:T:235:ASP:HB3	1:T:257:VAL:CG2	1.86	1.04
1:F:235:ASP:HB3	1:F:257:VAL:CG2	1.86	1.04
1:E:19:VAL:HB	1:L:37:VAL:CB	1.85	1.04
1:G:19:VAL:HB	1:N:37:VAL:CB	1.85	1.04
1:P:235:ASP:HB3	1:P:257:VAL:CG2	1.86	1.04
1:S:240:THR:O	1:S:241:HIS:ND1	1.91	1.04
1:J:235:ASP:HB3	1:J:257:VAL:CG2	1.86	1.04
1:L:235:ASP:HB3	1:L:257:VAL:CG2	1.86	1.04
1:T:235:ASP:CB	1:T:257:VAL:HG23	1.86	1.04
1:B:235:ASP:HB3	1:B:257:VAL:CG2	1.86	1.04
1:L:235:ASP:CB	1:L:257:VAL:HG23	1.86	1.04
1:P:240:THR:O	1:P:241:HIS:ND1	1.91	1.04
1:P:236:ARG:O	1:P:255:PHE:CA	2.06	1.04
1:S:235:ASP:HB3	1:S:257:VAL:CG2	1.86	1.04
1:T:236:ARG:O	1:T:255:PHE:CA	2.06	1.04
1:D:236:ARG:O	1:D:255:PHE:CA	2.06	1.04
1:E:235:ASP:CB	1:E:257:VAL:HG23	1.87	1.04
1:I:235:ASP:HB3	1:I:257:VAL:CG2	1.86	1.04
1:J:117:TYR:CE1	1:Q:302:ILE:HD12	1.93	1.04
1:N:236:ARG:O	1:N:255:PHE:CA	2.06	1.04
1:K:240:THR:O	1:K:241:HIS:ND1	1.91	1.04
1:G:117:TYR:CE1	1:N:302:ILE:HD12	1.93	1.04
1:I:117:TYR:CE1	1:P:302:ILE:HD12	1.92	1.04
1:Q:236:ARG:O	1:Q:255:PHE:CA	2.06	1.04
1:F:240:THR:O	1:F:241:HIS:ND1	1.91	1.04
1:M:240:THR:O	1:M:241:HIS:ND1	1.91	1.04
1:G:235:ASP:CB	1:G:257:VAL:HG23	1.87	1.03
1:L:117:TYR:CE1	1:S:302:ILE:HD12	1.93	1.03
1:E:117:TYR:CE1	1:L:302:ILE:HD12	1.92	1.03
1:U:236:ARG:O	1:U:255:PHE:CA	2.06	1.03
1:I:240:THR:O	1:I:241:HIS:ND1	1.91	1.03
1:J:235:ASP:CB	1:J:257:VAL:HG23	1.87	1.03
1:C:19:VAL:HB	1:J:37:VAL:CB	1.87	1.03
1:K:19:VAL:HB	1:R:37:VAL:CB	1.87	1.03
1:U:240:THR:O	1:U:241:HIS:ND1	1.91	1.03
1:B:240:THR:O	1:B:241:HIS:ND1	1.91	1.03
1:H:117:TYR:CE1	1:O:302:ILE:HD12	1.93	1.03
1:M:236:ARG:O	1:M:255:PHE:CA	2.06	1.03
1:G:240:THR:O	1:G:241:HIS:ND1	1.91	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:22:TYR:CD1	1:R:83:LEU:HD11	1.93	1.03
1:L:236:ARG:O	1:L:255:PHE:CA	2.06	1.03
1:N:240:THR:O	1:N:241:HIS:ND1	1.91	1.03
1:B:236:ARG:O	1:B:255:PHE:CA	2.06	1.03
1:C:236:ARG:O	1:C:255:PHE:CA	2.06	1.03
1:K:236:ARG:O	1:K:255:PHE:CA	2.06	1.03
1:Q:235:ASP:CB	1:Q:257:VAL:HG23	1.86	1.03
1:A:240:THR:O	1:A:241:HIS:ND1	1.91	1.03
1:D:240:THR:O	1:D:241:HIS:ND1	1.91	1.03
1:E:240:THR:O	1:E:241:HIS:ND1	1.91	1.03
1:H:240:THR:O	1:H:241:HIS:ND1	1.91	1.03
1:S:236:ARG:O	1:S:255:PHE:CA	2.06	1.03
1:G:236:ARG:O	1:G:255:PHE:CA	2.06	1.03
1:J:240:THR:O	1:J:241:HIS:ND1	1.91	1.03
1:E:236:ARG:O	1:E:255:PHE:CA	2.06	1.02
1:L:19:VAL:HB	1:S:37:VAL:CB	1.88	1.02
1:L:240:THR:O	1:L:241:HIS:ND1	1.90	1.02
1:J:19:VAL:HB	1:Q:37:VAL:CB	1.87	1.02
1:T:240:THR:O	1:T:241:HIS:ND1	1.91	1.02
1:O:236:ARG:O	1:O:255:PHE:CA	2.06	1.02
1:A:236:ARG:O	1:A:255:PHE:CA	2.06	1.02
1:G:19:VAL:HB	1:N:37:VAL:HG21	1.41	1.02
1:I:236:ARG:O	1:I:255:PHE:CA	2.06	1.02
1:F:117:TYR:CE1	1:M:302:ILE:HD12	1.95	1.02
1:O:240:THR:O	1:O:241:HIS:ND1	1.91	1.02
1:N:19:VAL:HB	1:U:37:VAL:CB	1.88	1.02
1:D:117:TYR:CE1	1:K:302:ILE:HD12	1.94	1.02
1:B:117:TYR:CE1	1:I:302:ILE:HD12	1.94	1.02
1:H:236:ARG:O	1:H:255:PHE:CA	2.06	1.02
1:R:236:ARG:O	1:R:255:PHE:CA	2.06	1.02
1:K:19:VAL:HB	1:R:37:VAL:HG21	1.42	1.01
1:Q:240:THR:O	1:Q:241:HIS:ND1	1.91	1.01
1:R:240:THR:O	1:R:241:HIS:ND1	1.91	1.01
1:C:240:THR:O	1:C:241:HIS:ND1	1.91	1.01
1:H:87:GLN:OE1	1:H:87:GLN:N	1.93	1.01
1:M:19:VAL:HB	1:T:37:VAL:CB	1.89	1.01
1:J:19:VAL:HB	1:Q:37:VAL:HG21	1.43	1.01
1:A:117:TYR:CE1	1:H:302:ILE:HD12	1.95	1.01
1:E:87:GLN:OE1	1:E:87:GLN:N	1.93	1.01
1:H:22:TYR:CD1	1:O:83:LEU:HD11	1.95	1.01
1:F:19:VAL:HB	1:M:37:VAL:HG21	1.42	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:22:TYR:CD1	1:H:83:LEU:HD11	1.96	1.00
1:L:87:GLN:OE1	1:L:87:GLN:N	1.93	1.00
1:I:87:GLN:N	1:I:87:GLN:OE1	1.93	1.00
1:U:87:GLN:N	1:U:87:GLN:OE1	1.93	1.00
1:A:236:ARG:NH1	1:H:280:GLN:CG	2.25	1.00
1:J:87:GLN:N	1:J:87:GLN:OE1	1.93	1.00
1:K:87:GLN:OE1	1:K:87:GLN:N	1.93	1.00
1:M:87:GLN:N	1:M:87:GLN:OE1	1.93	1.00
1:N:19:VAL:HB	1:U:37:VAL:HG21	1.42	1.00
1:Q:87:GLN:OE1	1:Q:87:GLN:N	1.93	1.00
1:T:87:GLN:OE1	1:T:87:GLN:N	1.93	1.00
1:R:87:GLN:N	1:R:87:GLN:OE1	1.93	1.00
1:M:22:TYR:CD1	1:T:83:LEU:HD11	1.97	1.00
1:I:22:TYR:CD1	1:P:83:LEU:HD11	1.96	1.00
1:S:87:GLN:N	1:S:87:GLN:OE1	1.93	1.00
1:G:22:TYR:CD1	1:N:83:LEU:HD11	1.96	1.00
1:B:236:ARG:NH1	1:I:280:GLN:CG	2.24	1.00
1:E:22:TYR:CD1	1:L:83:LEU:HD11	1.96	1.00
1:F:22:TYR:CD1	1:M:83:LEU:HD11	1.97	1.00
1:J:22:TYR:CD1	1:Q:83:LEU:HD11	1.97	1.00
1:N:22:TYR:CD1	1:U:83:LEU:HD11	1.96	1.00
1:F:87:GLN:OE1	1:F:87:GLN:N	1.93	0.99
1:F:236:ARG:NH1	1:M:280:GLN:CG	2.25	0.99
1:D:87:GLN:OE1	1:D:87:GLN:N	1.93	0.99
1:G:87:GLN:OE1	1:G:87:GLN:N	1.93	0.99
1:K:117:TYR:CZ	1:R:302:ILE:HD12	1.97	0.99
1:N:87:GLN:OE1	1:N:87:GLN:N	1.93	0.99
1:C:87:GLN:N	1:C:87:GLN:OE1	1.93	0.99
1:A:26:SER:OG	1:H:40:LYS:HG3	1.62	0.99
1:O:87:GLN:OE1	1:O:87:GLN:N	1.93	0.99
1:P:87:GLN:OE1	1:P:87:GLN:N	1.93	0.99
1:D:22:TYR:CD1	1:K:83:LEU:HD11	1.98	0.99
1:M:19:VAL:HB	1:T:37:VAL:HG21	1.43	0.99
1:A:19:VAL:HB	1:H:37:VAL:HG21	1.43	0.99
1:A:87:GLN:N	1:A:87:GLN:OE1	1.93	0.99
1:K:236:ARG:NH1	1:R:280:GLN:CG	2.25	0.99
1:B:22:TYR:CD1	1:I:83:LEU:HD11	1.97	0.99
1:C:22:TYR:CD1	1:J:83:LEU:HD11	1.98	0.99
1:K:26:SER:OG	1:R:40:LYS:HG3	1.63	0.98
1:B:87:GLN:OE1	1:B:87:GLN:N	1.93	0.98
1:D:236:ARG:NH1	1:K:280:GLN:CG	2.26	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:236:ARG:NH1	1:Q:280:GLN:CG	2.26	0.98
1:D:19:VAL:HB	1:K:37:VAL:HG21	1.43	0.98
1:H:236:ARG:NH1	1:O:280:GLN:CG	2.25	0.98
1:E:236:ARG:NH1	1:L:280:GLN:CG	2.25	0.98
1:B:19:VAL:HB	1:I:37:VAL:HG21	1.42	0.98
1:E:26:SER:OG	1:L:40:LYS:HG3	1.62	0.98
1:G:117:TYR:HH	1:N:302:ILE:HD11	1.25	0.98
1:L:236:ARG:NH1	1:S:280:GLN:CG	2.27	0.98
1:I:19:VAL:HB	1:P:37:VAL:HG21	1.43	0.98
1:N:236:ARG:NH1	1:U:280:GLN:CG	2.27	0.98
1:G:26:SER:OG	1:N:40:LYS:HG3	1.64	0.98
1:L:22:TYR:CD1	1:S:83:LEU:HD11	1.97	0.98
1:H:19:VAL:HB	1:O:37:VAL:HG21	1.41	0.98
1:G:236:ARG:NH1	1:N:280:GLN:CG	2.26	0.97
1:I:26:SER:OG	1:P:40:LYS:HG3	1.64	0.97
1:C:26:SER:OG	1:J:40:LYS:HG3	1.64	0.97
1:M:236:ARG:NH1	1:T:280:GLN:CG	2.28	0.97
1:D:26:SER:OG	1:K:40:LYS:HG3	1.63	0.97
1:E:19:VAL:HB	1:L:37:VAL:HG21	1.43	0.97
1:I:236:ARG:NH1	1:P:280:GLN:CG	2.28	0.97
1:M:26:SER:OG	1:T:40:LYS:HG3	1.65	0.97
1:A:117:TYR:OH	1:H:302:ILE:HD11	0.79	0.97
1:B:117:TYR:OH	1:I:302:ILE:HD11	0.79	0.97
1:L:26:SER:OG	1:S:40:LYS:HG3	1.65	0.97
1:J:27:GLY:HA2	1:Q:294:TRP:HZ3	0.90	0.96
1:D:117:TYR:HH	1:K:302:ILE:HD11	1.23	0.96
1:B:26:SER:OG	1:I:40:LYS:HG3	1.64	0.96
1:F:117:TYR:OH	1:M:302:ILE:HD11	0.79	0.96
1:L:117:TYR:OH	1:S:302:ILE:HD11	0.79	0.96
1:H:26:SER:OG	1:O:40:LYS:HG3	1.64	0.96
1:D:117:TYR:OH	1:K:302:ILE:HD11	0.79	0.96
1:C:236:ARG:NH1	1:J:280:GLN:CG	2.28	0.96
1:F:26:SER:OG	1:M:40:LYS:HG3	1.63	0.96
1:C:19:VAL:HB	1:J:37:VAL:HG21	1.44	0.96
1:M:117:TYR:HH	1:T:302:ILE:HD11	1.15	0.96
1:L:19:VAL:HB	1:S:37:VAL:HG21	1.42	0.96
1:M:117:TYR:OH	1:T:302:ILE:HD11	0.78	0.96
1:J:26:SER:OG	1:Q:40:LYS:HG3	1.64	0.96
1:N:26:SER:OG	1:U:40:LYS:HG3	1.65	0.96
1:J:117:TYR:OH	1:Q:302:ILE:HD11	0.78	0.95
1:N:117:TYR:OH	1:U:302:ILE:HD11	0.79	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:117:TYR:OH	1:J:302:ILE:HD11	0.78	0.95
1:B:117:TYR:CZ	1:I:302:ILE:HD12	2.01	0.95
1:H:117:TYR:CZ	1:O:302:ILE:HD12	1.99	0.95
1:I:117:TYR:HH	1:P:302:ILE:HD11	1.23	0.95
1:I:117:TYR:OH	1:P:302:ILE:HD11	0.77	0.95
1:E:117:TYR:OH	1:L:302:ILE:HD11	0.77	0.95
1:I:117:TYR:CZ	1:P:302:ILE:HD12	2.01	0.94
1:E:26:SER:OG	1:L:40:LYS:CG	2.15	0.94
1:L:117:TYR:HH	1:S:302:ILE:HD11	1.15	0.94
1:A:26:SER:OG	1:H:40:LYS:CG	2.15	0.94
1:N:117:TYR:HH	1:U:302:ILE:HD11	1.24	0.94
1:D:117:TYR:CZ	1:K:302:ILE:HD12	2.03	0.94
1:G:117:TYR:OH	1:N:302:ILE:HD11	0.77	0.94
1:K:26:SER:OG	1:R:40:LYS:CG	2.16	0.94
1:F:117:TYR:HH	1:M:302:ILE:HD11	1.19	0.94
1:E:27:GLY:HA2	1:L:294:TRP:HZ3	0.91	0.93
1:L:27:GLY:HA2	1:S:294:TRP:HZ3	0.90	0.93
1:A:19:VAL:HB	1:H:37:VAL:HB	1.48	0.93
1:E:19:VAL:HB	1:L:37:VAL:HB	1.50	0.93
1:G:19:VAL:HB	1:N:37:VAL:HB	1.51	0.93
1:H:117:TYR:OH	1:O:302:ILE:HD11	0.75	0.93
1:D:19:VAL:HB	1:K:37:VAL:HB	1.50	0.93
1:K:22:TYR:CE1	1:R:83:LEU:CD1	2.52	0.93
1:D:26:SER:OG	1:K:40:LYS:CG	2.16	0.93
1:I:26:SER:OG	1:P:40:LYS:CG	2.17	0.93
1:C:117:TYR:HH	1:J:302:ILE:HD11	1.22	0.93
1:H:26:SER:OG	1:O:40:LYS:CG	2.16	0.93
1:C:117:TYR:CE1	1:J:302:ILE:CD1	2.52	0.93
1:B:26:SER:OG	1:I:40:LYS:CG	2.17	0.92
1:J:26:SER:OG	1:Q:40:LYS:CG	2.17	0.92
1:B:117:TYR:HH	1:I:302:ILE:HD11	1.20	0.92
1:E:22:TYR:CE1	1:L:83:LEU:CD1	2.53	0.92
1:F:117:TYR:CZ	1:M:302:ILE:HD12	2.02	0.92
1:K:116:LYS:HD2	1:R:219:ASN:ND2	1.84	0.92
1:F:19:VAL:HB	1:M:37:VAL:HB	1.50	0.92
1:C:235:ASP:CB	1:C:257:VAL:CG2	2.47	0.92
1:R:276:PRO:HA	1:R:300:LEU:CD2	2.00	0.92
1:H:276:PRO:HA	1:H:300:LEU:CD2	2.00	0.92
1:K:276:PRO:HA	1:K:300:LEU:CD2	2.00	0.92
1:L:117:TYR:CE1	1:S:302:ILE:CD1	2.53	0.92
1:M:276:PRO:HA	1:M:300:LEU:CD2	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:26:SER:OG	1:N:40:LYS:CG	2.16	0.92
1:A:276:PRO:HA	1:A:300:LEU:CD2	2.00	0.92
1:B:276:PRO:HA	1:B:300:LEU:CD2	2.00	0.92
1:F:276:PRO:HA	1:F:300:LEU:CD2	2.00	0.92
1:F:26:SER:OG	1:M:40:LYS:CG	2.16	0.92
1:O:276:PRO:HA	1:O:300:LEU:CD2	2.00	0.92
1:H:19:VAL:HB	1:O:37:VAL:HB	1.51	0.91
1:U:276:PRO:HA	1:U:300:LEU:CD2	2.00	0.91
1:A:22:TYR:CE1	1:H:83:LEU:CD1	2.54	0.91
1:C:276:PRO:HA	1:C:300:LEU:CD2	2.00	0.91
1:R:236:ARG:O	1:R:255:PHE:HA	1.70	0.91
1:A:117:TYR:CZ	1:H:302:ILE:HD12	2.02	0.91
1:B:19:VAL:HB	1:I:37:VAL:HB	1.51	0.91
1:N:26:SER:OG	1:U:40:LYS:CG	2.18	0.91
1:H:117:TYR:HH	1:O:302:ILE:HD11	1.24	0.91
1:P:276:PRO:HA	1:P:300:LEU:CD2	2.00	0.91
1:T:276:PRO:HA	1:T:300:LEU:CD2	2.00	0.91
1:D:276:PRO:HA	1:D:300:LEU:CD2	2.00	0.91
1:J:19:VAL:HB	1:Q:37:VAL:HB	1.52	0.91
1:L:236:ARG:O	1:L:255:PHE:HA	1.70	0.91
1:D:235:ASP:CB	1:D:257:VAL:CG2	2.47	0.91
1:H:236:ARG:O	1:H:255:PHE:HA	1.70	0.91
1:I:276:PRO:HA	1:I:300:LEU:CD2	2.00	0.91
1:A:236:ARG:O	1:A:255:PHE:HA	1.70	0.91
1:E:276:PRO:HA	1:E:300:LEU:CD2	2.00	0.91
1:H:235:ASP:CB	1:H:257:VAL:CG2	2.47	0.91
1:N:235:ASP:CB	1:N:257:VAL:CG2	2.47	0.91
1:P:235:ASP:CB	1:P:257:VAL:CG2	2.47	0.91
1:H:22:TYR:CE1	1:O:83:LEU:CD1	2.54	0.91
1:I:117:TYR:CE1	1:P:302:ILE:CD1	2.52	0.91
1:J:276:PRO:HA	1:J:300:LEU:CD2	2.00	0.91
1:N:276:PRO:HA	1:N:300:LEU:CD2	2.00	0.91
1:U:235:ASP:CB	1:U:257:VAL:CG2	2.47	0.91
1:G:235:ASP:CB	1:G:257:VAL:CG2	2.47	0.91
1:I:19:VAL:HB	1:P:37:VAL:HB	1.52	0.91
1:B:27:GLY:HA2	1:I:294:TRP:HZ3	0.90	0.91
1:J:83:LEU:H	1:J:83:LEU:HD23	1.36	0.91
1:K:117:TYR:CE2	1:R:302:ILE:HG13	2.06	0.91
1:M:117:TYR:CE1	1:T:302:ILE:CD1	2.51	0.91
1:K:117:TYR:OH	1:R:302:ILE:HD11	0.73	0.91
1:T:83:LEU:HD23	1:T:83:LEU:H	1.36	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:117:TYR:CE1	1:U:302:ILE:CD1	2.52	0.91
1:A:235:ASP:CB	1:A:257:VAL:CG2	2.47	0.91
1:B:83:LEU:HD23	1:B:83:LEU:H	1.36	0.91
1:E:117:TYR:HH	1:L:302:ILE:HD11	1.26	0.91
1:M:117:TYR:CZ	1:T:302:ILE:HD12	2.02	0.91
1:G:27:GLY:HA2	1:N:294:TRP:HZ3	0.91	0.91
1:L:26:SER:OG	1:S:40:LYS:CG	2.18	0.91
1:B:236:ARG:O	1:B:255:PHE:HA	1.70	0.91
1:D:83:LEU:HD23	1:D:83:LEU:H	1.36	0.91
1:G:83:LEU:HD23	1:G:83:LEU:H	1.36	0.91
1:L:276:PRO:HA	1:L:300:LEU:CD2	2.00	0.91
1:L:83:LEU:HD23	1:L:83:LEU:H	1.36	0.91
1:N:83:LEU:HD23	1:N:83:LEU:H	1.36	0.91
1:K:19:VAL:HB	1:R:37:VAL:HB	1.52	0.91
1:H:116:LYS:HD2	1:O:219:ASN:ND2	1.85	0.90
1:C:26:SER:OG	1:J:40:LYS:CG	2.18	0.90
1:U:83:LEU:HD23	1:U:83:LEU:H	1.36	0.90
1:C:276:PRO:CB	1:C:300:LEU:HD21	2.02	0.90
1:C:83:LEU:H	1:C:83:LEU:HD23	1.36	0.90
1:F:276:PRO:CB	1:F:300:LEU:HD21	2.02	0.90
1:I:276:PRO:CB	1:I:300:LEU:HD21	2.02	0.90
1:K:235:ASP:CB	1:K:257:VAL:CG2	2.47	0.90
1:P:276:PRO:CB	1:P:300:LEU:HD21	2.02	0.90
1:Q:83:LEU:H	1:Q:83:LEU:HD23	1.36	0.90
1:R:276:PRO:CB	1:R:300:LEU:HD21	2.02	0.90
1:S:276:PRO:HA	1:S:300:LEU:CD2	2.00	0.90
1:M:26:SER:OG	1:T:40:LYS:CG	2.18	0.90
1:B:276:PRO:CB	1:B:300:LEU:HD21	2.02	0.90
1:K:276:PRO:CB	1:K:300:LEU:HD21	2.02	0.90
1:K:83:LEU:HD23	1:K:83:LEU:H	1.36	0.90
1:M:276:PRO:CB	1:M:300:LEU:HD21	2.02	0.90
1:O:235:ASP:CB	1:O:257:VAL:CG2	2.47	0.90
1:Q:276:PRO:HA	1:Q:300:LEU:CD2	2.00	0.90
1:S:276:PRO:CB	1:S:300:LEU:HD21	2.02	0.90
1:L:19:VAL:HB	1:S:37:VAL:HB	1.52	0.90
1:T:276:PRO:CB	1:T:300:LEU:HD21	2.02	0.90
1:C:19:VAL:HB	1:J:37:VAL:HB	1.51	0.90
1:E:236:ARG:O	1:E:255:PHE:HA	1.70	0.90
1:I:235:ASP:CB	1:I:257:VAL:CG2	2.47	0.90
1:J:276:PRO:CB	1:J:300:LEU:HD21	2.02	0.90
1:L:276:PRO:CB	1:L:300:LEU:HD21	2.02	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:276:PRO:CB	1:Q:300:LEU:HD21	2.02	0.90
1:S:83:LEU:H	1:S:83:LEU:HD23	1.36	0.90
1:A:83:LEU:HD23	1:A:83:LEU:H	1.36	0.90
1:E:276:PRO:CB	1:E:300:LEU:HD21	2.02	0.90
1:D:276:PRO:CB	1:D:300:LEU:HD21	2.02	0.90
1:E:117:TYR:CE1	1:L:302:ILE:CD1	2.53	0.90
1:E:83:LEU:H	1:E:83:LEU:HD23	1.36	0.90
1:G:276:PRO:HA	1:G:300:LEU:CD2	2.00	0.90
1:M:83:LEU:HD23	1:M:83:LEU:H	1.36	0.90
1:T:235:ASP:CB	1:T:257:VAL:CG2	2.47	0.90
1:G:276:PRO:CB	1:G:300:LEU:HD21	2.02	0.90
1:R:83:LEU:H	1:R:83:LEU:HD23	1.36	0.90
1:B:235:ASP:CB	1:B:257:VAL:CG2	2.47	0.90
1:K:236:ARG:O	1:K:255:PHE:HA	1.70	0.90
1:N:19:VAL:HB	1:U:37:VAL:HB	1.53	0.90
1:T:236:ARG:O	1:T:255:PHE:HA	1.70	0.90
1:H:117:TYR:CE1	1:O:302:ILE:CD1	2.54	0.90
1:H:83:LEU:H	1:H:83:LEU:HD23	1.36	0.90
1:R:235:ASP:CB	1:R:257:VAL:CG2	2.47	0.90
1:K:117:TYR:HH	1:R:302:ILE:HD11	1.15	0.90
1:D:22:TYR:CE1	1:K:83:LEU:CD1	2.54	0.89
1:D:235:ASP:CG	1:D:257:VAL:CG2	2.41	0.89
1:I:22:TYR:CE1	1:P:83:LEU:CD1	2.54	0.89
1:I:83:LEU:HD23	1:I:83:LEU:H	1.36	0.89
1:J:236:ARG:O	1:J:255:PHE:HA	1.70	0.89
1:N:22:TYR:CE1	1:U:83:LEU:CD1	2.54	0.89
1:O:276:PRO:CB	1:O:300:LEU:HD21	2.02	0.89
1:P:235:ASP:CG	1:P:257:VAL:CG2	2.41	0.89
1:A:235:ASP:CG	1:A:257:VAL:CG2	2.41	0.89
1:M:235:ASP:CB	1:M:257:VAL:CG2	2.47	0.89
1:N:276:PRO:CB	1:N:300:LEU:HD21	2.02	0.89
1:U:235:ASP:CG	1:U:257:VAL:CG2	2.41	0.89
1:M:235:ASP:CG	1:M:257:VAL:CG2	2.41	0.89
1:S:235:ASP:CG	1:S:257:VAL:CG2	2.41	0.89
1:G:235:ASP:CG	1:G:257:VAL:CG2	2.41	0.89
1:J:235:ASP:CG	1:J:257:VAL:CG2	2.41	0.89
1:S:236:ARG:O	1:S:255:PHE:HA	1.70	0.89
1:R:235:ASP:CG	1:R:257:VAL:CG2	2.41	0.89
1:B:235:ASP:CG	1:B:257:VAL:CG2	2.41	0.89
1:N:236:ARG:O	1:N:255:PHE:HA	1.70	0.89
1:O:236:ARG:O	1:O:255:PHE:HA	1.70	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:83:LEU:H	1:O:83:LEU:HD23	1.36	0.89
1:F:236:ARG:O	1:F:255:PHE:HA	1.70	0.89
1:G:22:TYR:CE1	1:N:83:LEU:CD1	2.54	0.89
1:H:276:PRO:CB	1:H:300:LEU:HD21	2.02	0.89
1:J:22:TYR:CE1	1:Q:83:LEU:CD1	2.54	0.89
1:K:117:TYR:CE1	1:R:302:ILE:CD1	2.51	0.89
1:U:276:PRO:CB	1:U:300:LEU:HD21	2.02	0.89
1:N:27:GLY:HA2	1:U:294:TRP:HZ3	0.91	0.89
1:D:236:ARG:O	1:D:255:PHE:HA	1.70	0.89
1:T:235:ASP:CG	1:T:257:VAL:CG2	2.41	0.89
1:C:236:ARG:O	1:C:255:PHE:HA	1.70	0.89
1:F:235:ASP:CB	1:F:257:VAL:CG2	2.47	0.89
1:G:236:ARG:O	1:G:255:PHE:HA	1.70	0.89
1:A:117:TYR:CE1	1:H:302:ILE:CD1	2.55	0.89
1:O:235:ASP:CG	1:O:257:VAL:CG2	2.41	0.88
1:E:116:LYS:HD2	1:L:219:ASN:ND2	1.86	0.88
1:E:235:ASP:CG	1:E:257:VAL:CG2	2.41	0.88
1:E:302:ILE:O	1:E:303:THR:OG1	1.91	0.88
1:I:236:ARG:O	1:I:255:PHE:HA	1.70	0.88
1:O:302:ILE:O	1:O:303:THR:OG1	1.91	0.88
1:P:236:ARG:O	1:P:255:PHE:HA	1.70	0.88
1:Q:235:ASP:CG	1:Q:257:VAL:CG2	2.41	0.88
1:U:236:ARG:O	1:U:255:PHE:HA	1.70	0.88
1:B:22:TYR:CE1	1:I:83:LEU:CD1	2.55	0.88
1:H:302:ILE:O	1:H:303:THR:OG1	1.91	0.88
1:L:22:TYR:CE1	1:S:83:LEU:CD1	2.54	0.88
1:J:117:TYR:HH	1:Q:302:ILE:HD11	1.27	0.88
1:A:276:PRO:CB	1:A:300:LEU:HD21	2.02	0.88
1:H:235:ASP:CG	1:H:257:VAL:CG2	2.41	0.88
1:K:235:ASP:CG	1:K:257:VAL:CG2	2.41	0.88
1:F:116:LYS:HD2	1:M:219:ASN:ND2	1.88	0.88
1:N:235:ASP:CG	1:N:257:VAL:CG2	2.41	0.88
1:J:116:LYS:HD2	1:Q:219:ASN:ND2	1.88	0.88
1:C:235:ASP:CG	1:C:257:VAL:CG2	2.41	0.88
1:E:117:TYR:CE2	1:L:302:ILE:HG13	2.09	0.88
1:I:235:ASP:CG	1:I:257:VAL:CG2	2.41	0.88
1:L:235:ASP:CG	1:L:257:VAL:CG2	2.41	0.88
1:R:302:ILE:O	1:R:303:THR:OG1	1.91	0.88
1:S:235:ASP:CB	1:S:257:VAL:CG2	2.47	0.88
1:A:302:ILE:O	1:A:303:THR:OG1	1.91	0.88
1:C:116:LYS:HD2	1:J:219:ASN:ND2	1.89	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:235:ASP:CG	1:F:257:VAL:CG2	2.41	0.88
1:F:83:LEU:HD23	1:F:83:LEU:H	1.36	0.88
1:L:302:ILE:O	1:L:303:THR:OG1	1.91	0.88
1:I:117:TYR:CE2	1:P:302:ILE:HG13	2.09	0.88
1:F:22:TYR:CE1	1:M:83:LEU:CD1	2.55	0.88
1:L:235:ASP:CB	1:L:257:VAL:CG2	2.47	0.88
1:B:302:ILE:O	1:B:303:THR:OG1	1.91	0.88
1:G:116:LYS:HD2	1:N:219:ASN:ND2	1.87	0.88
1:K:302:ILE:O	1:K:303:THR:OG1	1.91	0.88
1:M:19:VAL:HB	1:T:37:VAL:HB	1.53	0.88
1:M:22:TYR:CE1	1:T:83:LEU:CD1	2.54	0.88
1:G:117:TYR:CE1	1:N:302:ILE:CD1	2.54	0.88
1:P:83:LEU:HD23	1:P:83:LEU:H	1.36	0.88
1:E:235:ASP:CB	1:E:257:VAL:CG2	2.47	0.88
1:H:117:TYR:CE2	1:O:302:ILE:HG13	2.08	0.88
1:C:22:TYR:CE1	1:J:83:LEU:CD1	2.54	0.88
1:Q:236:ARG:O	1:Q:255:PHE:HA	1.70	0.88
1:A:116:LYS:HD2	1:H:219:ASN:ND2	1.89	0.87
1:C:117:TYR:CE2	1:J:302:ILE:HG13	2.09	0.87
1:S:302:ILE:O	1:S:303:THR:OG1	1.91	0.87
1:M:116:LYS:HD2	1:T:219:ASN:ND2	1.89	0.87
1:J:302:ILE:O	1:J:303:THR:OG1	1.91	0.87
1:M:117:TYR:CE2	1:T:302:ILE:HG13	2.10	0.87
1:T:302:ILE:O	1:T:303:THR:OG1	1.91	0.87
1:U:302:ILE:O	1:U:303:THR:OG1	1.91	0.87
1:G:117:TYR:CE2	1:N:302:ILE:HG13	2.09	0.87
1:M:236:ARG:O	1:M:255:PHE:HA	1.70	0.87
1:C:302:ILE:O	1:C:303:THR:OG1	1.91	0.87
1:I:302:ILE:O	1:I:303:THR:OG1	1.91	0.87
1:D:302:ILE:O	1:D:303:THR:OG1	1.91	0.87
1:D:236:ARG:O	1:D:255:PHE:CG	2.28	0.87
1:J:117:TYR:CE2	1:Q:302:ILE:HG13	2.10	0.87
1:N:236:ARG:O	1:N:255:PHE:CG	2.28	0.87
1:Q:236:ARG:O	1:Q:255:PHE:CG	2.28	0.87
1:A:236:ARG:O	1:A:255:PHE:CG	2.28	0.87
1:G:236:ARG:O	1:G:255:PHE:CG	2.28	0.87
1:B:116:LYS:HD2	1:I:219:ASN:ND2	1.88	0.87
1:K:236:ARG:O	1:K:255:PHE:CG	2.28	0.87
1:U:236:ARG:O	1:U:255:PHE:CG	2.28	0.87
1:J:236:ARG:O	1:J:255:PHE:CG	2.28	0.87
1:M:302:ILE:O	1:M:303:THR:OG1	1.91	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:302:ILE:O	1:N:303:THR:OG1	1.91	0.87
1:D:116:LYS:HD2	1:K:219:ASN:ND2	1.89	0.86
1:T:236:ARG:O	1:T:255:PHE:CG	2.28	0.86
1:J:117:TYR:CZ	1:Q:302:ILE:HD12	2.02	0.86
1:N:117:TYR:CE2	1:U:302:ILE:HG13	2.10	0.86
1:R:236:ARG:O	1:R:255:PHE:CG	2.28	0.86
1:C:236:ARG:O	1:C:255:PHE:CG	2.28	0.86
1:H:236:ARG:O	1:H:255:PHE:CG	2.28	0.86
1:L:117:TYR:CE2	1:S:302:ILE:HG13	2.10	0.86
1:U:276:PRO:HB3	1:U:300:LEU:HD21	1.57	0.86
1:K:236:ARG:HH12	1:R:280:GLN:HG3	1.40	0.86
1:I:116:LYS:HD2	1:P:219:ASN:ND2	1.88	0.86
1:P:302:ILE:O	1:P:303:THR:OG1	1.91	0.86
1:Q:302:ILE:O	1:Q:303:THR:OG1	1.91	0.86
1:B:117:TYR:CE1	1:I:302:ILE:CD1	2.55	0.86
1:D:276:PRO:HB3	1:D:300:LEU:HD21	1.57	0.86
1:M:236:ARG:O	1:M:255:PHE:CG	2.28	0.86
1:L:116:LYS:HD2	1:S:219:ASN:ND2	1.89	0.86
1:F:302:ILE:O	1:F:303:THR:OG1	1.91	0.86
1:G:302:ILE:O	1:G:303:THR:OG1	1.91	0.86
1:K:276:PRO:HB3	1:K:300:LEU:HD21	1.57	0.86
1:O:236:ARG:O	1:O:255:PHE:CG	2.28	0.86
1:F:117:TYR:CE2	1:M:302:ILE:HG13	2.11	0.86
1:E:236:ARG:O	1:E:255:PHE:CG	2.28	0.86
1:F:236:ARG:O	1:F:255:PHE:CG	2.28	0.86
1:F:236:ARG:HH12	1:M:280:GLN:HG3	1.41	0.86
1:Q:235:ASP:CB	1:Q:257:VAL:CG2	2.47	0.86
1:B:236:ARG:O	1:B:255:PHE:CG	2.28	0.85
1:S:236:ARG:O	1:S:255:PHE:CG	2.28	0.85
1:G:41:SER:OG	1:G:294:TRP:CE3	2.29	0.85
1:I:236:ARG:O	1:I:255:PHE:CG	2.28	0.85
1:M:41:SER:OG	1:M:294:TRP:CE3	2.29	0.85
1:P:236:ARG:O	1:P:255:PHE:CG	2.28	0.85
1:T:41:SER:OG	1:T:294:TRP:CE3	2.29	0.85
1:L:236:ARG:O	1:L:255:PHE:CG	2.28	0.85
1:N:41:SER:OG	1:N:294:TRP:CE3	2.29	0.85
1:O:276:PRO:HB3	1:O:300:LEU:HD21	1.57	0.85
1:J:117:TYR:CE1	1:Q:302:ILE:CD1	2.53	0.85
1:C:41:SER:OG	1:C:294:TRP:CE3	2.29	0.85
1:J:41:SER:OG	1:J:294:TRP:CE3	2.29	0.85
1:Q:41:SER:OG	1:Q:294:TRP:CE3	2.29	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:41:SER:OG	1:F:294:TRP:CE3	2.29	0.85
1:J:235:ASP:CB	1:J:257:VAL:CG2	2.47	0.85
1:K:117:TYR:CZ	1:R:302:ILE:CG1	2.59	0.85
1:N:276:PRO:HB3	1:N:300:LEU:HD21	1.57	0.85
1:P:41:SER:OG	1:P:294:TRP:CE3	2.29	0.85
1:Q:276:PRO:HB3	1:Q:300:LEU:HD21	1.57	0.85
1:A:236:ARG:HH12	1:H:280:GLN:HG3	1.41	0.85
1:B:117:TYR:CE2	1:I:302:ILE:HG13	2.11	0.85
1:D:236:ARG:HH12	1:K:280:GLN:HG3	1.42	0.85
1:N:116:LYS:HD2	1:U:219:ASN:ND2	1.89	0.85
1:A:117:TYR:CE2	1:H:302:ILE:HG13	2.12	0.85
1:A:276:PRO:HB3	1:A:300:LEU:HD21	1.58	0.85
1:D:117:TYR:CE2	1:K:302:ILE:HG13	2.11	0.85
1:P:276:PRO:CA	1:P:300:LEU:HD21	2.07	0.85
1:U:41:SER:OG	1:U:294:TRP:CE3	2.29	0.85
1:D:41:SER:OG	1:D:294:TRP:CE3	2.29	0.85
1:D:276:PRO:CA	1:D:300:LEU:HD21	2.07	0.85
1:F:276:PRO:HB3	1:F:300:LEU:HD21	1.57	0.85
1:G:276:PRO:CA	1:G:300:LEU:HD21	2.07	0.85
1:I:276:PRO:CA	1:I:300:LEU:HD21	2.07	0.85
1:M:276:PRO:CA	1:M:300:LEU:HD21	2.07	0.85
1:N:276:PRO:CA	1:N:300:LEU:HD21	2.07	0.85
1:P:276:PRO:HB3	1:P:300:LEU:HD21	1.57	0.85
1:T:276:PRO:CA	1:T:300:LEU:HD21	2.07	0.85
1:U:276:PRO:CA	1:U:300:LEU:HD21	2.07	0.85
1:E:276:PRO:HB3	1:E:300:LEU:HD21	1.57	0.85
1:F:276:PRO:CA	1:F:300:LEU:HD21	2.07	0.85
1:C:117:TYR:CZ	1:J:302:ILE:HD12	2.02	0.84
1:H:276:PRO:HB3	1:H:300:LEU:HD21	1.57	0.84
1:I:41:SER:OG	1:I:294:TRP:CE3	2.29	0.84
1:K:276:PRO:CA	1:K:300:LEU:HD21	2.07	0.84
1:S:276:PRO:CA	1:S:300:LEU:HD21	2.07	0.84
1:B:276:PRO:CA	1:B:300:LEU:HD21	2.07	0.84
1:I:276:PRO:HB3	1:I:300:LEU:HD21	1.57	0.84
1:S:276:PRO:HB3	1:S:300:LEU:HD21	1.57	0.84
1:A:41:SER:OG	1:A:294:TRP:CE3	2.29	0.84
1:A:276:PRO:CA	1:A:300:LEU:HD21	2.07	0.84
1:B:276:PRO:HB3	1:B:300:LEU:HD21	1.57	0.84
1:L:276:PRO:CA	1:L:300:LEU:HD21	2.07	0.84
1:H:236:ARG:HH12	1:O:280:GLN:HG3	1.39	0.84
1:Q:276:PRO:CA	1:Q:300:LEU:HD21	2.07	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:276:PRO:HB3	1:G:300:LEU:HD21	1.57	0.84
1:M:276:PRO:HB3	1:M:300:LEU:HD21	1.58	0.84
1:J:276:PRO:HB3	1:J:300:LEU:HD21	1.57	0.84
1:K:41:SER:OG	1:K:294:TRP:CE3	2.29	0.84
1:O:41:SER:OG	1:O:294:TRP:CE3	2.29	0.84
1:R:276:PRO:CA	1:R:300:LEU:HD21	2.07	0.84
1:B:41:SER:OG	1:B:294:TRP:CE3	2.29	0.84
1:E:41:SER:OG	1:E:294:TRP:CE3	2.29	0.84
1:Q:236:ARG:O	1:Q:255:PHE:CD2	2.31	0.84
1:J:236:ARG:O	1:J:255:PHE:CD2	2.31	0.84
1:B:236:ARG:HH12	1:I:280:GLN:HG3	1.41	0.84
1:C:276:PRO:CA	1:C:300:LEU:HD21	2.07	0.84
1:H:41:SER:OG	1:H:294:TRP:CE3	2.29	0.84
1:G:236:ARG:HH12	1:N:280:GLN:HG3	1.41	0.84
1:C:276:PRO:HB3	1:C:300:LEU:HD21	1.57	0.83
1:A:117:TYR:HH	1:H:302:ILE:HD11	1.04	0.83
1:S:41:SER:OG	1:S:294:TRP:CE3	2.29	0.83
1:T:276:PRO:HB3	1:T:300:LEU:HD21	1.57	0.83
1:A:236:ARG:O	1:A:255:PHE:CD2	2.31	0.83
1:G:236:ARG:O	1:G:255:PHE:CD2	2.31	0.83
1:H:276:PRO:CA	1:H:300:LEU:HD21	2.07	0.83
1:K:236:ARG:O	1:K:255:PHE:CD2	2.31	0.83
1:L:276:PRO:HB3	1:L:300:LEU:HD21	1.57	0.83
1:L:41:SER:OG	1:L:294:TRP:CE3	2.29	0.83
1:M:236:ARG:HH12	1:T:280:GLN:HG3	1.43	0.83
1:U:236:ARG:O	1:U:255:PHE:CD2	2.31	0.83
1:D:236:ARG:O	1:D:255:PHE:CD2	2.31	0.83
1:E:276:PRO:CA	1:E:300:LEU:HD21	2.07	0.83
1:J:276:PRO:CA	1:J:300:LEU:HD21	2.07	0.83
1:R:276:PRO:HB3	1:R:300:LEU:HD21	1.57	0.83
1:C:236:ARG:O	1:C:255:PHE:CD2	2.31	0.83
1:N:236:ARG:O	1:N:255:PHE:CD2	2.31	0.83
1:R:41:SER:OG	1:R:294:TRP:CE3	2.29	0.83
1:T:236:ARG:O	1:T:255:PHE:CD2	2.31	0.83
1:M:236:ARG:O	1:M:255:PHE:CD2	2.31	0.83
1:H:236:ARG:O	1:H:255:PHE:CD2	2.31	0.83
1:L:236:ARG:O	1:L:255:PHE:CD2	2.31	0.83
1:O:276:PRO:CA	1:O:300:LEU:HD21	2.07	0.83
1:N:236:ARG:HH12	1:U:280:GLN:HG3	1.43	0.83
1:I:236:ARG:O	1:I:255:PHE:CD2	2.31	0.82
1:G:117:TYR:CZ	1:N:302:ILE:CG1	2.63	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:117:TYR:CZ	1:U:302:ILE:CG1	2.63	0.82
1:F:236:ARG:O	1:F:255:PHE:CD2	2.31	0.82
1:R:236:ARG:O	1:R:255:PHE:CD2	2.31	0.82
1:J:236:ARG:HH12	1:Q:280:GLN:HG3	1.42	0.82
1:C:236:ARG:HH12	1:J:280:GLN:HG3	1.44	0.82
1:I:236:ARG:HH12	1:P:280:GLN:HG3	1.43	0.82
1:S:236:ARG:O	1:S:255:PHE:CD2	2.31	0.82
1:B:236:ARG:O	1:B:255:PHE:CD2	2.31	0.82
1:C:117:TYR:CZ	1:J:302:ILE:CG1	2.62	0.82
1:O:236:ARG:O	1:O:255:PHE:CD2	2.31	0.82
1:M:117:TYR:CZ	1:T:302:ILE:CG1	2.62	0.82
1:I:117:TYR:CZ	1:P:302:ILE:CG1	2.61	0.82
1:L:117:TYR:CZ	1:S:302:ILE:HD12	2.02	0.82
1:E:236:ARG:O	1:E:255:PHE:CD2	2.31	0.81
1:H:117:TYR:CZ	1:O:302:ILE:CG1	2.62	0.81
1:P:236:ARG:O	1:P:255:PHE:CD2	2.31	0.81
1:H:235:ASP:CG	1:H:257:VAL:HG21	2.01	0.81
1:J:276:PRO:HA	1:J:300:LEU:HD21	1.62	0.81
1:L:117:TYR:CZ	1:S:302:ILE:CG1	2.63	0.81
1:O:235:ASP:CG	1:O:257:VAL:HG21	2.01	0.81
1:T:276:PRO:HA	1:T:300:LEU:HD21	1.62	0.81
1:A:235:ASP:CG	1:A:257:VAL:HG21	2.01	0.81
1:E:117:TYR:CZ	1:L:302:ILE:CG1	2.63	0.81
1:E:236:ARG:HH12	1:L:280:GLN:HG3	1.40	0.81
1:R:235:ASP:CG	1:R:257:VAL:HG21	2.01	0.81
1:C:276:PRO:HA	1:C:300:LEU:HD21	1.62	0.81
1:K:235:ASP:CG	1:K:257:VAL:HG21	2.01	0.81
1:U:235:ASP:CG	1:U:257:VAL:HG21	2.01	0.81
1:D:235:ASP:CG	1:D:257:VAL:HG21	2.01	0.81
1:J:117:TYR:CZ	1:Q:302:ILE:CG1	2.63	0.81
1:G:276:PRO:HA	1:G:300:LEU:HD21	1.62	0.81
1:E:276:PRO:HA	1:E:300:LEU:HD21	1.62	0.80
1:M:276:PRO:HA	1:M:300:LEU:HD21	1.62	0.80
1:M:235:ASP:HB3	1:M:257:VAL:CB	2.12	0.80
1:O:276:PRO:HA	1:O:300:LEU:HD21	1.62	0.80
1:C:235:ASP:HB3	1:C:257:VAL:CB	2.12	0.80
1:H:235:ASP:HB3	1:H:257:VAL:CB	2.12	0.80
1:R:235:ASP:HB3	1:R:257:VAL:CB	2.12	0.80
1:K:22:TYR:CD1	1:R:83:LEU:CD1	2.63	0.80
1:L:276:PRO:HA	1:L:300:LEU:HD21	1.62	0.80
1:T:235:ASP:HB3	1:T:257:VAL:CB	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:19:VAL:CB	1:H:37:VAL:HB	2.11	0.80
1:A:235:ASP:HB3	1:A:257:VAL:CB	2.12	0.80
1:F:77:GLN:HB2	1:F:264:ASN:HD21	1.47	0.80
1:A:26:SER:CB	1:H:40:LYS:HG3	2.12	0.80
1:J:235:ASP:HB3	1:J:257:VAL:CB	2.12	0.80
1:L:236:ARG:HH12	1:S:280:GLN:HG3	1.43	0.80
1:M:77:GLN:HB2	1:M:264:ASN:HD21	1.47	0.80
1:Q:276:PRO:HA	1:Q:300:LEU:HD21	1.62	0.80
1:E:235:ASP:HB3	1:E:257:VAL:CB	2.12	0.80
1:F:235:ASP:HB3	1:F:257:VAL:CB	2.12	0.80
1:O:235:ASP:HB3	1:O:257:VAL:CB	2.12	0.80
1:T:77:GLN:HB2	1:T:264:ASN:HD21	1.47	0.80
1:A:117:TYR:CZ	1:H:302:ILE:CG1	2.65	0.80
1:K:235:ASP:HB3	1:K:257:VAL:CB	2.12	0.80
1:D:117:TYR:CZ	1:K:302:ILE:CG1	2.64	0.80
1:P:235:ASP:HB3	1:P:257:VAL:CB	2.12	0.80
1:C:77:GLN:HB2	1:C:264:ASN:HD21	1.47	0.80
1:H:276:PRO:HA	1:H:300:LEU:HD21	1.62	0.79
1:J:77:GLN:HB2	1:J:264:ASN:HD21	1.47	0.79
1:P:77:GLN:HB2	1:P:264:ASN:HD21	1.47	0.79
1:B:276:PRO:HA	1:B:300:LEU:HD21	1.62	0.79
1:F:117:TYR:CZ	1:M:302:ILE:CG1	2.65	0.79
1:G:22:TYR:CD1	1:N:83:LEU:CD1	2.65	0.79
1:U:235:ASP:HB3	1:U:257:VAL:CB	2.12	0.79
1:E:117:TYR:CZ	1:L:302:ILE:HD12	2.00	0.79
1:E:77:GLN:HB2	1:E:264:ASN:HD21	1.47	0.79
1:I:235:ASP:HB3	1:I:257:VAL:CB	2.12	0.79
1:L:235:ASP:HB3	1:L:257:VAL:CB	2.12	0.79
1:O:77:GLN:HB2	1:O:264:ASN:HD21	1.47	0.79
1:O:82:VAL:HG13	1:O:85:GLY:HA3	1.64	0.79
1:E:82:VAL:HG13	1:E:85:GLY:HA3	1.64	0.79
1:Q:235:ASP:HB3	1:Q:257:VAL:CB	2.12	0.79
1:A:82:VAL:HG13	1:A:85:GLY:HA3	1.64	0.79
1:B:235:ASP:HB3	1:B:257:VAL:CB	2.12	0.79
1:D:235:ASP:HB3	1:D:257:VAL:CB	2.12	0.79
1:D:26:SER:CB	1:K:40:LYS:HG3	2.13	0.79
1:H:82:VAL:HG13	1:H:85:GLY:HA3	1.64	0.79
1:D:19:VAL:CB	1:K:37:VAL:CG2	2.57	0.79
1:D:19:VAL:CB	1:K:37:VAL:HB	2.13	0.79
1:K:82:VAL:HG13	1:K:85:GLY:HA3	1.64	0.79
1:H:22:TYR:CD1	1:O:83:LEU:CD1	2.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:276:PRO:HA	1:R:300:LEU:HD21	1.62	0.79
1:S:235:ASP:HB3	1:S:257:VAL:CB	2.12	0.79
1:E:22:TYR:CD1	1:L:83:LEU:CD1	2.65	0.79
1:H:77:GLN:HB2	1:H:264:ASN:HD21	1.47	0.79
1:I:22:TYR:CD1	1:P:83:LEU:CD1	2.66	0.79
1:G:117:TYR:CZ	1:N:302:ILE:HD12	2.00	0.79
1:G:26:SER:CB	1:N:40:LYS:HG3	2.13	0.79
1:L:77:GLN:HB2	1:L:264:ASN:HD21	1.47	0.79
1:R:82:VAL:HG13	1:R:85:GLY:HA3	1.64	0.79
1:F:276:PRO:HA	1:F:300:LEU:HD21	1.62	0.79
1:G:19:VAL:CB	1:N:37:VAL:HB	2.13	0.79
1:J:22:TYR:CD1	1:Q:83:LEU:CD1	2.66	0.79
1:K:26:SER:CB	1:R:40:LYS:HG3	2.13	0.79
1:F:27:GLY:HA3	1:M:294:TRP:CZ3	2.17	0.79
1:N:22:TYR:CD1	1:U:83:LEU:CD1	2.66	0.79
1:B:27:GLY:HA3	1:I:294:TRP:CZ3	2.18	0.78
1:Q:77:GLN:HB2	1:Q:264:ASN:HD21	1.47	0.78
1:U:82:VAL:HG13	1:U:85:GLY:HA3	1.64	0.78
1:G:235:ASP:HB3	1:G:257:VAL:CB	2.12	0.78
1:I:77:GLN:HB2	1:I:264:ASN:HD21	1.47	0.78
1:N:235:ASP:HB3	1:N:257:VAL:CB	2.12	0.78
1:R:77:GLN:HB2	1:R:264:ASN:HD21	1.47	0.78
1:B:82:VAL:HG13	1:B:85:GLY:HA3	1.64	0.78
1:C:82:VAL:HG13	1:C:85:GLY:HA3	1.64	0.78
1:S:276:PRO:HA	1:S:300:LEU:HD21	1.62	0.78
1:A:22:TYR:CD1	1:H:83:LEU:CD1	2.65	0.78
1:A:276:PRO:HA	1:A:300:LEU:HD21	1.62	0.78
1:B:77:GLN:HB2	1:B:264:ASN:HD21	1.47	0.78
1:L:82:VAL:HG13	1:L:85:GLY:HA3	1.64	0.78
1:F:26:SER:CB	1:M:40:LYS:HG3	2.13	0.78
1:B:117:TYR:CZ	1:I:302:ILE:CG1	2.65	0.78
1:D:82:VAL:HG13	1:D:85:GLY:HA3	1.64	0.78
1:F:19:VAL:CB	1:M:37:VAL:CG2	2.56	0.78
1:S:82:VAL:HG13	1:S:85:GLY:HA3	1.64	0.78
1:M:22:TYR:CD1	1:T:83:LEU:CD1	2.66	0.78
1:A:77:GLN:HB2	1:A:264:ASN:HD21	1.47	0.78
1:J:82:VAL:HG13	1:J:85:GLY:HA3	1.64	0.78
1:K:276:PRO:HA	1:K:300:LEU:HD21	1.62	0.78
1:N:117:TYR:CZ	1:U:302:ILE:HD12	2.02	0.78
1:F:19:VAL:CB	1:M:37:VAL:HB	2.13	0.78
1:C:22:TYR:CD1	1:J:83:LEU:CD1	2.67	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:19:VAL:CB	1:L:37:VAL:HB	2.13	0.78
1:G:77:GLN:HB2	1:G:264:ASN:HD21	1.47	0.78
1:K:77:GLN:HB2	1:K:264:ASN:HD21	1.47	0.78
1:H:26:SER:CB	1:O:40:LYS:HG3	2.13	0.78
1:D:117:TYR:CE1	1:K:302:ILE:CD1	2.54	0.78
1:I:27:GLY:HA3	1:P:294:TRP:CZ3	2.19	0.78
1:I:82:VAL:HG13	1:I:85:GLY:HA3	1.64	0.78
1:N:82:VAL:HG13	1:N:85:GLY:HA3	1.64	0.78
1:P:276:PRO:HA	1:P:300:LEU:HD21	1.62	0.78
1:S:77:GLN:HB2	1:S:264:ASN:HD21	1.47	0.78
1:U:276:PRO:HA	1:U:300:LEU:HD21	1.62	0.78
1:E:26:SER:CB	1:L:40:LYS:HG3	2.13	0.77
1:P:82:VAL:HG13	1:P:85:GLY:HA3	1.64	0.77
1:U:77:GLN:HB2	1:U:264:ASN:HD21	1.47	0.77
1:I:26:SER:CB	1:P:40:LYS:HG3	2.14	0.77
1:Q:82:VAL:HG13	1:Q:85:GLY:HA3	1.64	0.77
1:D:276:PRO:HA	1:D:300:LEU:HD21	1.62	0.77
1:B:26:SER:CB	1:I:40:LYS:HG3	2.14	0.77
1:D:22:TYR:CD1	1:K:83:LEU:CD1	2.67	0.77
1:F:22:TYR:CD1	1:M:83:LEU:CD1	2.67	0.77
1:I:27:GLY:HA2	1:P:294:TRP:HZ3	0.90	0.77
1:G:82:VAL:HG13	1:G:85:GLY:HA3	1.64	0.77
1:I:19:VAL:CB	1:P:37:VAL:CG2	2.58	0.77
1:D:77:GLN:HB2	1:D:264:ASN:HD21	1.47	0.77
1:S:235:ASP:CG	1:S:257:VAL:HG23	2.05	0.77
1:T:82:VAL:HG13	1:T:85:GLY:HA3	1.64	0.77
1:B:19:VAL:CB	1:I:37:VAL:HB	2.14	0.77
1:G:235:ASP:CG	1:G:257:VAL:HG23	2.05	0.77
1:D:27:GLY:HA3	1:K:294:TRP:CZ3	2.18	0.77
1:L:22:TYR:CD1	1:S:83:LEU:CD1	2.67	0.77
1:B:235:ASP:CG	1:B:257:VAL:HG23	2.05	0.77
1:N:276:PRO:HA	1:N:300:LEU:HD22	1.67	0.77
1:L:19:VAL:CB	1:S:37:VAL:CG2	2.58	0.77
1:D:276:PRO:HA	1:D:300:LEU:HD22	1.67	0.77
1:C:19:VAL:CB	1:J:37:VAL:HB	2.14	0.77
1:K:19:VAL:CB	1:R:37:VAL:HB	2.15	0.77
1:H:27:GLY:HA3	1:O:294:TRP:CZ3	2.18	0.77
1:N:26:SER:CB	1:U:40:LYS:HG3	2.15	0.77
1:L:235:ASP:CG	1:L:257:VAL:HG23	2.05	0.77
1:M:82:VAL:HG13	1:M:85:GLY:HA3	1.64	0.77
1:Q:235:ASP:CG	1:Q:257:VAL:HG23	2.05	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:276:PRO:HA	1:U:300:LEU:HD22	1.67	0.77
1:K:276:PRO:HA	1:K:300:LEU:HD22	1.67	0.76
1:N:77:GLN:HB2	1:N:264:ASN:HD21	1.47	0.76
1:F:82:VAL:HG13	1:F:85:GLY:HA3	1.64	0.76
1:A:19:VAL:CB	1:H:37:VAL:CG2	2.56	0.76
1:G:27:GLY:HA3	1:N:294:TRP:CZ3	2.18	0.76
1:N:276:PRO:HA	1:N:300:LEU:HD21	1.62	0.76
1:J:26:SER:CB	1:Q:40:LYS:HG3	2.14	0.76
1:G:276:PRO:HA	1:G:300:LEU:HD22	1.67	0.76
1:I:276:PRO:HA	1:I:300:LEU:HD22	1.67	0.76
1:I:19:VAL:CB	1:P:37:VAL:HB	2.15	0.76
1:S:276:PRO:HA	1:S:300:LEU:HD22	1.67	0.76
1:B:276:PRO:HA	1:B:300:LEU:HD22	1.67	0.76
1:J:19:VAL:CB	1:Q:37:VAL:HB	2.15	0.76
1:H:19:VAL:CB	1:O:37:VAL:HB	2.14	0.76
1:B:22:TYR:CD1	1:I:83:LEU:CD1	2.67	0.76
1:L:276:PRO:HA	1:L:300:LEU:HD22	1.67	0.76
1:L:27:GLY:HA3	1:S:294:TRP:CZ3	2.20	0.76
1:A:276:PRO:HA	1:A:300:LEU:HD22	1.67	0.76
1:I:276:PRO:HA	1:I:300:LEU:HD21	1.62	0.76
1:N:19:VAL:CB	1:U:37:VAL:HB	2.16	0.76
1:E:235:ASP:CG	1:E:257:VAL:HG23	2.05	0.76
1:E:19:VAL:CB	1:L:37:VAL:CG2	2.58	0.76
1:R:276:PRO:HA	1:R:300:LEU:HD22	1.67	0.76
1:M:26:SER:CB	1:T:40:LYS:HG3	2.15	0.76
1:P:276:PRO:HA	1:P:300:LEU:HD22	1.67	0.76
1:L:26:SER:CB	1:S:40:LYS:HG3	2.15	0.76
1:J:235:ASP:CG	1:J:257:VAL:HG23	2.05	0.76
1:P:235:ASP:CG	1:P:257:VAL:HG21	2.01	0.76
1:Q:276:PRO:HA	1:Q:300:LEU:HD22	1.67	0.76
1:F:235:ASP:CG	1:F:257:VAL:HG21	2.01	0.75
1:L:19:VAL:CB	1:S:37:VAL:HB	2.16	0.75
1:O:235:ASP:CG	1:O:257:VAL:HG23	2.05	0.75
1:C:26:SER:CB	1:J:40:LYS:HG3	2.15	0.75
1:F:276:PRO:HA	1:F:300:LEU:HD22	1.67	0.75
1:H:276:PRO:HA	1:H:300:LEU:HD22	1.67	0.75
1:M:235:ASP:CG	1:M:257:VAL:HG21	2.01	0.75
1:H:19:VAL:CB	1:O:37:VAL:CG2	2.57	0.75
1:E:276:PRO:HA	1:E:300:LEU:HD22	1.67	0.75
1:T:235:ASP:CG	1:T:257:VAL:HG23	2.05	0.75
1:A:27:GLY:HA3	1:H:294:TRP:CZ3	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:235:ASP:CG	1:H:257:VAL:HG23	2.05	0.74
1:N:27:GLY:HA3	1:U:294:TRP:CZ3	2.20	0.74
1:M:276:PRO:HA	1:M:300:LEU:HD22	1.67	0.74
1:J:19:VAL:CB	1:Q:37:VAL:CG2	2.58	0.74
1:R:235:ASP:CG	1:R:257:VAL:HG23	2.05	0.74
1:O:276:PRO:HA	1:O:300:LEU:HD22	1.67	0.74
1:J:276:PRO:HA	1:J:300:LEU:HD22	1.67	0.74
1:N:19:VAL:CB	1:U:37:VAL:CG2	2.59	0.74
1:C:235:ASP:CG	1:C:257:VAL:HG23	2.05	0.74
1:B:19:VAL:CB	1:I:37:VAL:CG2	2.57	0.74
1:A:235:ASP:CG	1:A:257:VAL:HG23	2.05	0.74
1:C:276:PRO:HA	1:C:300:LEU:HD22	1.67	0.74
1:T:276:PRO:HA	1:T:300:LEU:HD22	1.67	0.73
1:M:19:VAL:CB	1:T:37:VAL:HB	2.17	0.73
1:K:235:ASP:CG	1:K:257:VAL:HG23	2.05	0.73
1:K:26:SER:OG	1:R:40:LYS:CD	2.36	0.73
1:M:235:ASP:CG	1:M:257:VAL:HG23	2.05	0.73
1:G:26:SER:OG	1:N:40:LYS:HD2	1.89	0.73
1:K:27:GLY:HA3	1:R:294:TRP:CZ3	2.20	0.73
1:F:19:VAL:CB	1:M:37:VAL:HG21	2.18	0.73
1:I:235:ASP:CG	1:I:257:VAL:HG23	2.05	0.73
1:C:19:VAL:CB	1:J:37:VAL:CG2	2.58	0.73
1:K:26:SER:OG	1:R:40:LYS:HD2	1.87	0.73
1:B:19:VAL:CB	1:I:37:VAL:HG21	2.19	0.73
1:C:27:GLY:HA3	1:J:294:TRP:CZ3	2.20	0.73
1:H:26:SER:OG	1:O:40:LYS:HD2	1.88	0.73
1:T:110:PRO:HA	1:T:254:ILE:HD13	1.72	0.72
1:U:235:ASP:CG	1:U:257:VAL:HG23	2.05	0.72
1:G:26:SER:OG	1:N:40:LYS:CD	2.38	0.72
1:J:110:PRO:HA	1:J:254:ILE:HD13	1.71	0.72
1:D:27:GLY:C	1:K:294:TRP:HZ3	1.92	0.72
1:C:110:PRO:HA	1:C:254:ILE:HD13	1.72	0.72
1:P:110:PRO:HA	1:P:254:ILE:HD13	1.71	0.72
1:P:236:ARG:C	1:P:255:PHE:HD2	1.93	0.72
1:G:19:VAL:CB	1:N:37:VAL:HG21	2.17	0.72
1:N:110:PRO:HA	1:N:254:ILE:HD13	1.72	0.72
1:G:27:GLY:C	1:N:294:TRP:HZ3	1.93	0.72
1:O:236:ARG:C	1:O:255:PHE:HD2	1.93	0.72
1:E:27:GLY:HA3	1:L:294:TRP:CZ3	2.19	0.72
1:H:236:ARG:C	1:H:255:PHE:HD2	1.93	0.72
1:H:26:SER:OG	1:O:40:LYS:CD	2.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:110:PRO:HA	1:I:254:ILE:HD13	1.72	0.72
1:E:236:ARG:C	1:E:255:PHE:HD2	1.93	0.72
1:F:236:ARG:C	1:F:255:PHE:HD2	1.93	0.72
1:I:236:ARG:C	1:I:255:PHE:HD2	1.93	0.72
1:A:19:VAL:CB	1:H:37:VAL:HG21	2.18	0.72
1:M:110:PRO:HA	1:M:254:ILE:HD13	1.71	0.72
1:D:110:PRO:HA	1:D:254:ILE:HD13	1.71	0.72
1:G:236:ARG:C	1:G:255:PHE:HD2	1.93	0.72
1:E:27:GLY:C	1:L:294:TRP:HZ3	1.92	0.72
1:N:235:ASP:CG	1:N:257:VAL:HG21	2.01	0.72
1:D:235:ASP:CG	1:D:257:VAL:HG23	2.05	0.72
1:H:19:VAL:CB	1:O:37:VAL:HG21	2.18	0.72
1:A:27:GLY:C	1:H:294:TRP:HZ3	1.90	0.72
1:I:19:VAL:CB	1:P:37:VAL:HG21	2.19	0.72
1:I:26:SER:OG	1:P:40:LYS:HD2	1.90	0.72
1:Q:236:ARG:C	1:Q:255:PHE:HD2	1.93	0.72
1:R:236:ARG:C	1:R:255:PHE:HD2	1.93	0.72
1:N:26:SER:OG	1:U:40:LYS:HD2	1.90	0.72
1:B:236:ARG:C	1:B:255:PHE:HD2	1.93	0.71
1:F:27:GLY:C	1:M:294:TRP:HZ3	1.92	0.71
1:S:236:ARG:C	1:S:255:PHE:HD2	1.93	0.71
1:H:116:LYS:HD2	1:O:219:ASN:HD22	1.54	0.71
1:E:26:SER:OG	1:L:40:LYS:CD	2.38	0.71
1:F:110:PRO:HA	1:F:254:ILE:HD13	1.71	0.71
1:F:235:ASP:CG	1:F:257:VAL:HG23	2.05	0.71
1:G:110:PRO:HA	1:G:254:ILE:HD13	1.72	0.71
1:J:236:ARG:C	1:J:255:PHE:HD2	1.93	0.71
1:N:235:ASP:CG	1:N:257:VAL:HG23	2.05	0.71
1:N:236:ARG:C	1:N:255:PHE:HD2	1.93	0.71
1:J:26:SER:OG	1:Q:40:LYS:HD2	1.90	0.71
1:D:236:ARG:C	1:D:255:PHE:HD2	1.93	0.71
1:J:27:GLY:HA3	1:Q:294:TRP:CZ3	2.19	0.71
1:J:27:GLY:C	1:Q:294:TRP:HZ3	1.94	0.71
1:R:110:PRO:HA	1:R:254:ILE:HD13	1.72	0.71
1:M:26:SER:OG	1:T:40:LYS:HD2	1.90	0.71
1:A:26:SER:OG	1:H:40:LYS:CD	2.38	0.71
1:L:236:ARG:C	1:L:255:PHE:HD2	1.93	0.71
1:A:110:PRO:HA	1:A:254:ILE:HD13	1.71	0.71
1:A:236:ARG:C	1:A:255:PHE:HD2	1.93	0.71
1:K:19:VAL:CB	1:R:37:VAL:HG21	2.19	0.71
1:L:110:PRO:HA	1:L:254:ILE:HD13	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:19:VAL:CB	1:R:37:VAL:CG2	2.59	0.71
1:S:110:PRO:HA	1:S:254:ILE:HD13	1.72	0.71
1:T:236:ARG:C	1:T:255:PHE:HD2	1.93	0.71
1:E:110:PRO:HA	1:E:254:ILE:HD13	1.72	0.71
1:E:19:VAL:CB	1:L:37:VAL:HG21	2.20	0.71
1:G:19:VAL:CB	1:N:37:VAL:CG2	2.56	0.71
1:M:19:VAL:CB	1:T:37:VAL:CG2	2.60	0.71
1:C:19:VAL:CB	1:J:37:VAL:HG21	2.20	0.71
1:E:26:SER:OG	1:L:40:LYS:HD2	1.90	0.71
1:F:26:SER:OG	1:M:40:LYS:CD	2.39	0.71
1:B:27:GLY:C	1:I:294:TRP:HZ3	1.92	0.71
1:M:236:ARG:C	1:M:255:PHE:HD2	1.93	0.71
1:U:236:ARG:C	1:U:255:PHE:HD2	1.93	0.71
1:A:26:SER:OG	1:H:40:LYS:HD2	1.90	0.71
1:H:110:PRO:HA	1:H:254:ILE:HD13	1.71	0.71
1:D:27:GLY:HA2	1:K:294:TRP:HZ3	0.89	0.71
1:I:26:SER:OG	1:P:40:LYS:CD	2.39	0.71
1:B:26:SER:OG	1:I:40:LYS:HD2	1.90	0.71
1:E:242:TYR:HB3	1:E:252:VAL:HB	1.73	0.71
1:O:242:TYR:HB3	1:O:252:VAL:HB	1.73	0.71
1:N:19:VAL:CB	1:U:37:VAL:HG21	2.19	0.71
1:D:26:SER:OG	1:K:40:LYS:CD	2.39	0.70
1:P:235:ASP:CG	1:P:257:VAL:HG23	2.05	0.70
1:Q:110:PRO:HA	1:Q:254:ILE:HD13	1.71	0.70
1:C:236:ARG:C	1:C:255:PHE:HD2	1.93	0.70
1:J:26:SER:OG	1:Q:40:LYS:CD	2.39	0.70
1:N:26:SER:OG	1:U:40:LYS:CD	2.39	0.70
1:J:19:VAL:CB	1:Q:37:VAL:HG21	2.20	0.70
1:U:110:PRO:HA	1:U:254:ILE:HD13	1.71	0.70
1:H:242:TYR:HB3	1:H:252:VAL:HB	1.73	0.70
1:K:236:ARG:C	1:K:255:PHE:HD2	1.93	0.70
1:D:19:VAL:CB	1:K:37:VAL:HG21	2.19	0.70
1:L:242:TYR:HB3	1:L:252:VAL:HB	1.73	0.70
1:L:19:VAL:CB	1:S:37:VAL:HG21	2.19	0.70
1:M:19:VAL:CB	1:T:37:VAL:HG21	2.20	0.70
1:M:26:SER:OG	1:T:40:LYS:CD	2.40	0.70
1:B:26:SER:OG	1:I:40:LYS:CD	2.39	0.70
1:K:116:LYS:HD2	1:R:219:ASN:HD22	1.54	0.70
1:K:110:PRO:HA	1:K:254:ILE:HD13	1.72	0.70
1:O:110:PRO:HA	1:O:254:ILE:HD13	1.71	0.70
1:R:242:TYR:HB3	1:R:252:VAL:HB	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:26:SER:OG	1:S:40:LYS:HD2	1.91	0.70
1:B:242:TYR:HB3	1:B:252:VAL:HB	1.73	0.70
1:C:26:SER:OG	1:J:40:LYS:HD2	1.92	0.70
1:I:242:TYR:HB3	1:I:252:VAL:HB	1.73	0.70
1:S:242:TYR:HB3	1:S:252:VAL:HB	1.73	0.70
1:B:110:PRO:HA	1:B:254:ILE:HD13	1.72	0.70
1:J:236:ARG:C	1:J:255:PHE:CD2	2.66	0.70
1:F:26:SER:OG	1:M:40:LYS:HD2	1.91	0.70
1:G:236:ARG:C	1:G:255:PHE:CD2	2.66	0.70
1:I:236:ARG:C	1:I:255:PHE:CD2	2.66	0.70
1:K:236:ARG:C	1:K:255:PHE:CD2	2.66	0.70
1:L:236:ARG:C	1:L:255:PHE:CD2	2.65	0.70
1:N:236:ARG:C	1:N:255:PHE:CD2	2.66	0.70
1:H:27:GLY:C	1:O:294:TRP:HZ3	1.93	0.70
1:R:236:ARG:C	1:R:255:PHE:CD2	2.66	0.70
1:N:27:GLY:C	1:U:294:TRP:HZ3	1.95	0.70
1:A:242:TYR:HB3	1:A:252:VAL:HB	1.73	0.69
1:F:236:ARG:C	1:F:255:PHE:CD2	2.66	0.69
1:T:236:ARG:C	1:T:255:PHE:CD2	2.66	0.69
1:U:236:ARG:HG2	1:U:237:PHE:N	2.07	0.69
1:H:236:ARG:C	1:H:255:PHE:CD2	2.66	0.69
1:K:242:TYR:HB3	1:K:252:VAL:HB	1.73	0.69
1:P:242:TYR:HB3	1:P:252:VAL:HB	1.73	0.69
1:T:41:SER:OG	1:T:294:TRP:CZ3	2.45	0.69
1:U:236:ARG:C	1:U:255:PHE:CD2	2.65	0.69
1:U:242:TYR:HB3	1:U:252:VAL:HB	1.73	0.69
1:A:236:ARG:C	1:A:255:PHE:CD2	2.66	0.69
1:C:236:ARG:C	1:C:255:PHE:CD2	2.66	0.69
1:G:236:ARG:HG2	1:G:237:PHE:N	2.07	0.69
1:J:116:LYS:HD2	1:Q:219:ASN:HD22	1.57	0.69
1:K:236:ARG:HG2	1:K:237:PHE:N	2.07	0.69
1:D:26:SER:OG	1:K:40:LYS:HD2	1.91	0.69
1:F:117:TYR:CE1	1:M:302:ILE:CD1	2.55	0.69
1:Q:236:ARG:C	1:Q:255:PHE:CD2	2.66	0.69
1:E:116:LYS:HD2	1:L:219:ASN:HD22	1.55	0.69
1:J:236:ARG:HG2	1:J:237:PHE:N	2.07	0.69
1:M:236:ARG:C	1:M:255:PHE:CD2	2.66	0.69
1:M:27:GLY:HA3	1:T:294:TRP:CZ3	2.21	0.69
1:N:41:SER:OG	1:N:294:TRP:CZ3	2.45	0.69
1:O:236:ARG:C	1:O:255:PHE:CD2	2.66	0.69
1:D:242:TYR:HB3	1:D:252:VAL:HB	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:236:ARG:HG2	1:H:237:PHE:N	2.07	0.69
1:I:27:GLY:C	1:P:294:TRP:HZ3	1.94	0.69
1:S:236:ARG:C	1:S:255:PHE:CD2	2.66	0.69
1:C:41:SER:OG	1:C:294:TRP:CZ3	2.45	0.69
1:E:236:ARG:C	1:E:255:PHE:CD2	2.66	0.69
1:E:236:ARG:HG2	1:E:237:PHE:N	2.07	0.69
1:G:116:LYS:HD2	1:N:219:ASN:HD22	1.56	0.69
1:G:41:SER:OG	1:G:294:TRP:CZ3	2.45	0.69
1:L:26:SER:OG	1:S:40:LYS:CD	2.40	0.69
1:F:242:TYR:HB3	1:F:252:VAL:HB	1.73	0.69
1:I:84:GLN:HA	1:I:84:GLN:OE1	1.93	0.69
1:O:236:ARG:HG2	1:O:237:PHE:N	2.07	0.69
1:R:236:ARG:HG2	1:R:237:PHE:N	2.07	0.69
1:A:236:ARG:HG2	1:A:237:PHE:N	2.07	0.69
1:D:236:ARG:C	1:D:255:PHE:CD2	2.66	0.69
1:H:84:GLN:HA	1:H:84:GLN:OE1	1.93	0.69
1:Q:242:TYR:HB3	1:Q:252:VAL:HB	1.73	0.69
1:R:84:GLN:HA	1:R:84:GLN:OE1	1.93	0.69
1:B:236:ARG:HG2	1:B:237:PHE:N	2.07	0.69
1:G:242:TYR:HB3	1:G:252:VAL:HB	1.73	0.69
1:J:242:TYR:HB3	1:J:252:VAL:HB	1.73	0.69
1:C:26:SER:OG	1:J:40:LYS:CD	2.41	0.69
1:L:236:ARG:HG2	1:L:237:PHE:N	2.07	0.69
1:S:236:ARG:HG2	1:S:237:PHE:N	2.07	0.69
1:L:27:GLY:C	1:S:294:TRP:HZ3	1.94	0.69
1:B:236:ARG:C	1:B:255:PHE:CD2	2.66	0.69
1:D:236:ARG:HG2	1:D:237:PHE:N	2.07	0.69
1:N:242:TYR:HB3	1:N:252:VAL:HB	1.73	0.69
1:S:84:GLN:HA	1:S:84:GLN:OE1	1.93	0.69
1:A:84:GLN:OE1	1:A:84:GLN:HA	1.93	0.69
1:I:236:ARG:HG2	1:I:237:PHE:N	2.07	0.69
1:N:84:GLN:OE1	1:N:84:GLN:HA	1.93	0.69
1:P:236:ARG:C	1:P:255:PHE:CD2	2.65	0.69
1:T:242:TYR:HB3	1:T:252:VAL:HB	1.73	0.69
1:G:84:GLN:OE1	1:G:84:GLN:HA	1.93	0.68
1:N:236:ARG:HG2	1:N:237:PHE:N	2.07	0.68
1:O:84:GLN:OE1	1:O:84:GLN:HA	1.93	0.68
1:C:242:TYR:HB3	1:C:252:VAL:HB	1.73	0.68
1:T:236:ARG:HG2	1:T:237:PHE:N	2.07	0.68
1:B:84:GLN:OE1	1:B:84:GLN:HA	1.93	0.68
1:C:84:GLN:HA	1:C:84:GLN:OE1	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:41:SER:OG	1:L:294:TRP:CZ3	2.45	0.68
1:M:41:SER:OG	1:M:294:TRP:CZ3	2.45	0.68
1:P:236:ARG:HG2	1:P:237:PHE:N	2.07	0.68
1:P:84:GLN:HA	1:P:84:GLN:OE1	1.93	0.68
1:Q:41:SER:OG	1:Q:294:TRP:CZ3	2.45	0.68
1:F:236:ARG:HG2	1:F:237:PHE:N	2.07	0.68
1:M:242:TYR:HB3	1:M:252:VAL:HB	1.73	0.68
1:U:276:PRO:CA	1:U:300:LEU:CD2	2.70	0.68
1:A:41:SER:OG	1:A:294:TRP:CZ3	2.45	0.68
1:E:84:GLN:OE1	1:E:84:GLN:HA	1.93	0.68
1:K:84:GLN:HA	1:K:84:GLN:OE1	1.93	0.68
1:P:41:SER:OG	1:P:294:TRP:CZ3	2.45	0.68
1:T:84:GLN:HA	1:T:84:GLN:OE1	1.93	0.68
1:A:117:TYR:HH	1:H:302:ILE:CD1	1.78	0.68
1:B:116:LYS:HD2	1:I:219:ASN:HD22	1.56	0.68
1:D:84:GLN:OE1	1:D:84:GLN:HA	1.93	0.68
1:F:41:SER:OG	1:F:294:TRP:CZ3	2.45	0.68
1:K:41:SER:OG	1:K:294:TRP:CZ3	2.45	0.68
1:M:84:GLN:OE1	1:M:84:GLN:HA	1.93	0.68
1:N:276:PRO:CA	1:N:300:LEU:CD2	2.70	0.68
1:M:236:ARG:HG2	1:M:237:PHE:N	2.07	0.68
1:F:116:LYS:HD2	1:M:219:ASN:HD22	1.57	0.68
1:F:276:PRO:CA	1:F:300:LEU:CD2	2.70	0.68
1:G:276:PRO:CA	1:G:300:LEU:CD2	2.70	0.68
1:Q:236:ARG:HG2	1:Q:237:PHE:N	2.07	0.68
1:Q:84:GLN:HA	1:Q:84:GLN:OE1	1.93	0.68
1:R:41:SER:OG	1:R:294:TRP:CZ3	2.45	0.68
1:K:27:GLY:C	1:R:294:TRP:HZ3	1.95	0.68
1:C:27:GLY:C	1:J:294:TRP:HZ3	1.94	0.67
1:C:236:ARG:HG2	1:C:237:PHE:N	2.07	0.67
1:J:84:GLN:HA	1:J:84:GLN:OE1	1.93	0.67
1:L:84:GLN:HA	1:L:84:GLN:OE1	1.93	0.67
1:M:239:ASN:C	1:M:240:THR:HG22	2.15	0.67
1:F:84:GLN:HA	1:F:84:GLN:OE1	1.93	0.67
1:P:239:ASN:C	1:P:240:THR:HG22	2.15	0.67
1:U:41:SER:OG	1:U:294:TRP:CZ3	2.45	0.67
1:M:276:PRO:CA	1:M:300:LEU:CD2	2.70	0.67
1:U:84:GLN:OE1	1:U:84:GLN:HA	1.93	0.67
1:A:116:LYS:HD2	1:H:219:ASN:HD22	1.58	0.67
1:C:239:ASN:C	1:C:240:THR:HG22	2.15	0.67
1:T:276:PRO:CA	1:T:300:LEU:CD2	2.70	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:27:GLY:C	1:T:294:TRP:HZ3	1.95	0.67
1:E:41:SER:OG	1:E:294:TRP:CZ3	2.45	0.67
1:J:239:ASN:C	1:J:240:THR:HG22	2.15	0.67
1:M:116:LYS:HD2	1:T:219:ASN:HD22	1.59	0.67
1:K:239:ASN:C	1:K:240:THR:HG22	2.15	0.67
1:S:239:ASN:C	1:S:240:THR:HG22	2.15	0.67
1:A:42:LEU:HD23	1:A:42:LEU:N	2.11	0.66
1:C:116:LYS:HD2	1:J:219:ASN:HD22	1.59	0.66
1:O:41:SER:OG	1:O:294:TRP:CZ3	2.45	0.66
1:K:117:TYR:CZ	1:R:302:ILE:HG13	2.29	0.66
1:B:239:ASN:C	1:B:240:THR:HG22	2.15	0.66
1:B:41:SER:OG	1:B:294:TRP:CZ3	2.45	0.66
1:D:42:LEU:N	1:D:42:LEU:HD23	2.11	0.66
1:I:239:ASN:C	1:I:240:THR:HG22	2.15	0.66
1:P:42:LEU:N	1:P:42:LEU:HD23	2.10	0.66
1:F:239:ASN:C	1:F:240:THR:HG22	2.15	0.66
1:I:42:LEU:N	1:I:42:LEU:HD23	2.11	0.66
1:S:41:SER:OG	1:S:294:TRP:CZ3	2.45	0.66
1:B:42:LEU:HD23	1:B:42:LEU:N	2.11	0.66
1:C:42:LEU:HD23	1:C:42:LEU:N	2.11	0.66
1:J:238:VAL:O	1:J:240:THR:HG22	1.96	0.66
1:L:238:VAL:O	1:L:240:THR:HG22	1.96	0.66
1:N:116:LYS:HD2	1:U:219:ASN:HD22	1.59	0.66
1:Q:238:VAL:O	1:Q:240:THR:HG22	1.96	0.66
1:U:239:ASN:C	1:U:240:THR:HG22	2.15	0.66
1:B:238:VAL:O	1:B:240:THR:HG22	1.96	0.66
1:C:238:VAL:O	1:C:240:THR:HG22	1.96	0.66
1:D:41:SER:OG	1:D:294:TRP:CZ3	2.45	0.66
1:H:42:LEU:HD23	1:H:42:LEU:N	2.11	0.66
1:L:116:LYS:HD2	1:S:219:ASN:HD22	1.58	0.66
1:M:238:VAL:O	1:M:240:THR:HG22	1.96	0.66
1:S:238:VAL:O	1:S:240:THR:HG22	1.96	0.66
1:E:238:VAL:O	1:E:240:THR:HG22	1.96	0.66
1:G:238:VAL:O	1:G:240:THR:HG22	1.96	0.66
1:G:42:LEU:N	1:G:42:LEU:HD23	2.11	0.66
1:I:238:VAL:O	1:I:240:THR:HG22	1.96	0.66
1:L:42:LEU:HD23	1:L:42:LEU:N	2.11	0.66
1:R:239:ASN:C	1:R:240:THR:HG22	2.15	0.66
1:S:42:LEU:HD23	1:S:42:LEU:N	2.11	0.66
1:T:238:VAL:O	1:T:240:THR:HG22	1.96	0.66
1:T:239:ASN:C	1:T:240:THR:HG22	2.15	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:239:ASN:C	1:H:240:THR:HG22	2.15	0.66
1:I:116:LYS:HD2	1:P:219:ASN:HD22	1.58	0.66
1:G:239:ASN:C	1:G:240:THR:HG22	2.15	0.66
1:I:41:SER:OG	1:I:294:TRP:CZ3	2.45	0.66
1:O:239:ASN:C	1:O:240:THR:HG22	2.15	0.66
1:O:238:VAL:O	1:O:240:THR:HG22	1.96	0.66
1:A:239:ASN:C	1:A:240:THR:HG22	2.15	0.66
1:J:209:GLY:HA2	1:J:228:THR:HG23	1.78	0.66
1:J:42:LEU:HD23	1:J:42:LEU:N	2.11	0.66
1:K:42:LEU:HD23	1:K:42:LEU:N	2.11	0.66
1:M:209:GLY:HA2	1:M:228:THR:HG23	1.78	0.66
1:T:209:GLY:HA2	1:T:228:THR:HG23	1.78	0.66
1:C:209:GLY:HA2	1:C:228:THR:HG23	1.78	0.66
1:F:42:LEU:N	1:F:42:LEU:HD23	2.11	0.66
1:H:238:VAL:O	1:H:240:THR:HG22	1.96	0.66
1:T:42:LEU:HD23	1:T:42:LEU:N	2.11	0.66
1:D:239:ASN:C	1:D:240:THR:HG22	2.15	0.65
1:E:42:LEU:HD23	1:E:42:LEU:N	2.11	0.65
1:J:41:SER:OG	1:J:294:TRP:CZ3	2.45	0.65
1:N:239:ASN:C	1:N:240:THR:HG22	2.15	0.65
1:U:42:LEU:HD23	1:U:42:LEU:N	2.11	0.65
1:D:116:LYS:HD2	1:K:219:ASN:HD22	1.58	0.65
1:F:209:GLY:HA2	1:F:228:THR:HG23	1.78	0.65
1:J:77:GLN:NE2	1:J:78:PRO:O	2.30	0.65
1:P:238:VAL:O	1:P:240:THR:HG22	1.96	0.65
1:R:238:VAL:O	1:R:240:THR:HG22	1.96	0.65
1:H:41:SER:OG	1:H:294:TRP:CZ3	2.45	0.65
1:N:238:VAL:O	1:N:240:THR:HG22	1.96	0.65
1:Q:77:GLN:NE2	1:Q:78:PRO:O	2.30	0.65
1:K:117:TYR:CE2	1:R:302:ILE:CG1	2.77	0.65
1:T:77:GLN:NE2	1:T:78:PRO:O	2.30	0.65
1:A:238:VAL:O	1:A:240:THR:HG22	1.96	0.65
1:C:77:GLN:NE2	1:C:78:PRO:O	2.30	0.65
1:G:77:GLN:NE2	1:G:78:PRO:O	2.30	0.65
1:Q:239:ASN:C	1:Q:240:THR:HG22	2.15	0.65
1:D:238:VAL:O	1:D:240:THR:HG22	1.96	0.65
1:I:209:GLY:HA2	1:I:228:THR:HG23	1.78	0.65
1:K:238:VAL:O	1:K:240:THR:HG22	1.96	0.65
1:M:42:LEU:N	1:M:42:LEU:HD23	2.11	0.65
1:Q:209:GLY:HA2	1:Q:228:THR:HG23	1.78	0.65
1:B:77:GLN:NE2	1:B:78:PRO:O	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:77:GLN:NE2	1:L:78:PRO:O	2.30	0.65
1:P:209:GLY:HA2	1:P:228:THR:HG23	1.78	0.65
1:Q:42:LEU:HD23	1:Q:42:LEU:N	2.11	0.65
1:A:262:GLN:O	1:A:263:SER:HB3	1.97	0.65
1:E:239:ASN:C	1:E:240:THR:HG22	2.15	0.65
1:E:77:GLN:NE2	1:E:78:PRO:O	2.30	0.65
1:F:238:VAL:O	1:F:240:THR:HG22	1.96	0.65
1:M:77:GLN:NE2	1:M:78:PRO:O	2.30	0.65
1:N:77:GLN:NE2	1:N:78:PRO:O	2.30	0.65
1:O:77:GLN:NE2	1:O:78:PRO:O	2.30	0.65
1:R:42:LEU:HD23	1:R:42:LEU:N	2.11	0.65
1:S:77:GLN:NE2	1:S:78:PRO:O	2.30	0.65
1:D:77:GLN:NE2	1:D:78:PRO:O	2.30	0.65
1:I:77:GLN:NE2	1:I:78:PRO:O	2.30	0.65
1:N:42:LEU:N	1:N:42:LEU:HD23	2.11	0.65
1:S:209:GLY:HA2	1:S:228:THR:HG23	1.78	0.65
1:G:209:GLY:HA2	1:G:228:THR:HG23	1.78	0.65
1:N:209:GLY:HA2	1:N:228:THR:HG23	1.78	0.65
1:U:238:VAL:O	1:U:240:THR:HG22	1.96	0.65
1:U:77:GLN:NE2	1:U:78:PRO:O	2.30	0.65
1:H:117:TYR:CE2	1:O:302:ILE:CG1	2.80	0.65
1:K:77:GLN:NE2	1:K:78:PRO:O	2.30	0.65
1:L:239:ASN:C	1:L:240:THR:HG22	2.15	0.65
1:G:117:TYR:CZ	1:N:302:ILE:HG13	2.31	0.65
1:D:209:GLY:HA2	1:D:228:THR:HG23	1.78	0.64
1:F:77:GLN:NE2	1:F:78:PRO:O	2.30	0.64
1:H:262:GLN:O	1:H:263:SER:HB3	1.97	0.64
1:L:262:GLN:O	1:L:263:SER:HB3	1.97	0.64
1:P:262:GLN:O	1:P:263:SER:HB3	1.97	0.64
1:B:209:GLY:HA2	1:B:228:THR:HG23	1.78	0.64
1:H:77:GLN:NE2	1:H:78:PRO:O	2.30	0.64
1:O:42:LEU:N	1:O:42:LEU:HD23	2.11	0.64
1:P:77:GLN:NE2	1:P:78:PRO:O	2.30	0.64
1:A:77:GLN:NE2	1:A:78:PRO:O	2.30	0.64
1:I:262:GLN:O	1:I:263:SER:HB3	1.97	0.64
1:N:262:GLN:O	1:N:263:SER:HB3	1.97	0.64
1:S:262:GLN:O	1:S:263:SER:HB3	1.97	0.64
1:U:209:GLY:HA2	1:U:228:THR:HG23	1.78	0.64
1:R:77:GLN:NE2	1:R:78:PRO:O	2.30	0.64
1:U:262:GLN:O	1:U:263:SER:HB3	1.97	0.64
1:E:262:GLN:O	1:E:263:SER:HB3	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:262:GLN:O	1:G:263:SER:HB3	1.97	0.64
1:H:209:GLY:HA2	1:H:228:THR:HG23	1.78	0.64
1:O:262:GLN:O	1:O:263:SER:HB3	1.97	0.64
1:C:262:GLN:O	1:C:263:SER:HB3	1.97	0.64
1:R:209:GLY:HA2	1:R:228:THR:HG23	1.78	0.64
1:A:209:GLY:HA2	1:A:228:THR:HG23	1.78	0.64
1:L:209:GLY:HA2	1:L:228:THR:HG23	1.78	0.64
1:M:262:GLN:O	1:M:263:SER:HB3	1.97	0.64
1:O:209:GLY:HA2	1:O:228:THR:HG23	1.78	0.64
1:H:117:TYR:CZ	1:O:302:ILE:HG13	2.31	0.64
1:E:209:GLY:HA2	1:E:228:THR:HG23	1.78	0.64
1:K:209:GLY:HA2	1:K:228:THR:HG23	1.78	0.64
1:N:117:TYR:CZ	1:U:302:ILE:HG13	2.32	0.64
1:J:262:GLN:O	1:J:263:SER:HB3	1.97	0.63
1:F:262:GLN:O	1:F:263:SER:HB3	1.97	0.63
1:H:276:PRO:CA	1:H:300:LEU:CD2	2.70	0.63
1:C:117:TYR:CZ	1:J:302:ILE:HG13	2.30	0.63
1:G:117:TYR:CE2	1:N:302:ILE:CG1	2.81	0.63
1:O:276:PRO:CA	1:O:300:LEU:CD2	2.70	0.63
1:Q:262:GLN:O	1:Q:263:SER:HB3	1.97	0.63
1:B:262:GLN:O	1:B:263:SER:HB3	1.97	0.63
1:N:117:TYR:CE2	1:U:302:ILE:CG1	2.81	0.63
1:D:262:GLN:O	1:D:263:SER:HB3	1.97	0.63
1:D:117:TYR:CZ	1:K:302:ILE:HG13	2.33	0.63
1:A:276:PRO:CA	1:A:300:LEU:CD2	2.70	0.63
1:E:117:TYR:CE2	1:L:302:ILE:CG1	2.81	0.63
1:R:262:GLN:O	1:R:263:SER:HB3	1.97	0.63
1:T:262:GLN:O	1:T:263:SER:HB3	1.97	0.63
1:J:117:TYR:CZ	1:Q:302:ILE:HG13	2.32	0.62
1:T:45:ILE:CD1	1:T:264:ASN:OD1	2.48	0.62
1:C:302:ILE:C	1:C:303:THR:HG1	1.99	0.62
1:I:45:ILE:CD1	1:I:264:ASN:OD1	2.48	0.62
1:K:262:GLN:O	1:K:263:SER:HB3	1.97	0.62
1:D:45:ILE:CD1	1:D:264:ASN:OD1	2.48	0.62
1:H:45:ILE:CD1	1:H:264:ASN:OD1	2.48	0.62
1:K:45:ILE:CD1	1:K:264:ASN:OD1	2.48	0.62
1:S:45:ILE:CD1	1:S:264:ASN:OD1	2.48	0.62
1:M:45:ILE:CD1	1:M:264:ASN:OD1	2.48	0.62
1:O:45:ILE:CD1	1:O:264:ASN:OD1	2.48	0.62
1:R:45:ILE:CD1	1:R:264:ASN:OD1	2.48	0.62
1:B:45:ILE:CD1	1:B:264:ASN:OD1	2.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:83:LEU:N	1:Q:83:LEU:HD23	2.09	0.62
1:G:45:ILE:CD1	1:G:264:ASN:OD1	2.48	0.62
1:A:117:TYR:CE2	1:H:302:ILE:CG1	2.83	0.62
1:P:45:ILE:CD1	1:P:264:ASN:OD1	2.48	0.62
1:A:45:ILE:CD1	1:A:264:ASN:OD1	2.48	0.62
1:E:45:ILE:CD1	1:E:264:ASN:OD1	2.48	0.62
1:E:117:TYR:CZ	1:L:302:ILE:HG13	2.32	0.62
1:I:117:TYR:CZ	1:P:302:ILE:HG13	2.30	0.62
1:M:117:TYR:CZ	1:T:302:ILE:HG13	2.31	0.62
1:F:45:ILE:CD1	1:F:264:ASN:OD1	2.48	0.62
1:A:117:TYR:CZ	1:H:302:ILE:HG13	2.34	0.62
1:C:45:ILE:CD1	1:C:264:ASN:OD1	2.48	0.61
1:Q:45:ILE:CD1	1:Q:264:ASN:OD1	2.48	0.61
1:U:45:ILE:CD1	1:U:264:ASN:OD1	2.48	0.61
1:N:45:ILE:CD1	1:N:264:ASN:OD1	2.48	0.61
1:B:276:PRO:CA	1:B:300:LEU:CD2	2.70	0.61
1:J:302:ILE:C	1:J:303:THR:HG1	2.00	0.61
1:L:45:ILE:CD1	1:L:264:ASN:OD1	2.48	0.61
1:G:83:LEU:HD23	1:G:83:LEU:N	2.09	0.61
1:A:19:VAL:HB	1:H:37:VAL:HG23	1.77	0.61
1:M:117:TYR:CE2	1:T:302:ILE:CG1	2.81	0.61
1:J:45:ILE:CD1	1:J:264:ASN:OD1	2.48	0.61
1:C:208:ALA:N	1:C:232:ILE:HD11	2.16	0.61
1:L:117:TYR:CE2	1:S:302:ILE:CG1	2.82	0.61
1:U:208:ALA:N	1:U:232:ILE:HD11	2.16	0.61
1:H:208:ALA:N	1:H:232:ILE:HD11	2.16	0.61
1:K:208:ALA:N	1:K:232:ILE:HD11	2.16	0.60
1:S:208:ALA:N	1:S:232:ILE:HD11	2.16	0.60
1:E:276:PRO:CA	1:E:300:LEU:CD2	2.70	0.60
1:F:208:ALA:N	1:F:232:ILE:HD11	2.16	0.60
1:R:276:PRO:CA	1:R:300:LEU:CD2	2.70	0.60
1:L:117:TYR:CZ	1:S:302:ILE:HG13	2.32	0.60
1:G:208:ALA:N	1:G:232:ILE:HD11	2.16	0.60
1:B:208:ALA:N	1:B:232:ILE:HD11	2.16	0.60
1:O:276:PRO:HB3	1:O:300:LEU:CD2	2.32	0.60
1:R:208:ALA:N	1:R:232:ILE:HD11	2.16	0.60
1:R:276:PRO:HB3	1:R:300:LEU:CD2	2.31	0.60
1:T:208:ALA:N	1:T:232:ILE:HD11	2.16	0.60
1:U:276:PRO:HB3	1:U:300:LEU:CD2	2.31	0.60
1:D:276:PRO:HB3	1:D:300:LEU:CD2	2.32	0.60
1:H:276:PRO:HB3	1:H:300:LEU:CD2	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:208:ALA:N	1:J:232:ILE:HD11	2.16	0.60
1:K:276:PRO:HB3	1:K:300:LEU:CD2	2.32	0.60
1:N:276:PRO:HB3	1:N:300:LEU:CD2	2.32	0.60
1:A:276:PRO:HB3	1:A:300:LEU:CD2	2.32	0.60
1:L:208:ALA:N	1:L:232:ILE:HD11	2.16	0.60
1:P:208:ALA:N	1:P:232:ILE:HD11	2.16	0.60
1:D:208:ALA:N	1:D:232:ILE:HD11	2.16	0.60
1:E:208:ALA:N	1:E:232:ILE:HD11	2.16	0.60
1:I:276:PRO:CA	1:I:300:LEU:CD2	2.70	0.60
1:D:19:VAL:HB	1:K:37:VAL:HG23	1.77	0.59
1:L:276:PRO:CA	1:L:300:LEU:CD2	2.70	0.59
1:F:117:TYR:CE2	1:M:302:ILE:CG1	2.83	0.59
1:I:208:ALA:N	1:I:232:ILE:HD11	2.16	0.59
1:Q:208:ALA:N	1:Q:232:ILE:HD11	2.16	0.59
1:A:208:ALA:N	1:A:232:ILE:HD11	2.16	0.59
1:N:208:ALA:N	1:N:232:ILE:HD11	2.16	0.59
1:O:208:ALA:N	1:O:232:ILE:HD11	2.16	0.59
1:A:20:LEU:CD1	1:H:292:SER:HB3	2.32	0.59
1:K:276:PRO:CA	1:K:300:LEU:CD2	2.70	0.59
1:F:117:TYR:CZ	1:M:302:ILE:HG13	2.34	0.59
1:M:208:ALA:N	1:M:232:ILE:HD11	2.16	0.59
1:T:239:ASN:OD1	1:T:239:ASN:N	2.36	0.59
1:F:20:LEU:CD1	1:M:292:SER:HB3	2.32	0.59
1:J:110:PRO:HD2	1:J:204:ALA:O	2.03	0.59
1:N:239:ASN:N	1:N:239:ASN:OD1	2.36	0.59
1:S:110:PRO:HD2	1:S:204:ALA:O	2.03	0.59
1:J:239:ASN:OD1	1:J:239:ASN:N	2.36	0.59
1:Q:110:PRO:HD2	1:Q:204:ALA:O	2.03	0.59
1:R:110:PRO:HD2	1:R:204:ALA:O	2.03	0.59
1:B:239:ASN:N	1:B:239:ASN:OD1	2.36	0.59
1:D:239:ASN:OD1	1:D:239:ASN:N	2.36	0.59
1:E:239:ASN:N	1:E:239:ASN:OD1	2.36	0.59
1:F:110:PRO:HD2	1:F:204:ALA:O	2.03	0.59
1:L:239:ASN:OD1	1:L:239:ASN:N	2.36	0.59
1:M:110:PRO:HD2	1:M:204:ALA:O	2.03	0.59
1:N:110:PRO:HD2	1:N:204:ALA:O	2.03	0.59
1:P:110:PRO:HD2	1:P:204:ALA:O	2.03	0.59
1:T:110:PRO:HD2	1:T:204:ALA:O	2.03	0.58
1:G:110:PRO:HD2	1:G:204:ALA:O	2.03	0.58
1:O:110:PRO:HD2	1:O:204:ALA:O	2.03	0.58
1:J:117:TYR:CE2	1:Q:302:ILE:CG1	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:110:PRO:HD2	1:U:204:ALA:O	2.03	0.58
1:C:110:PRO:HD2	1:C:204:ALA:O	2.03	0.58
1:N:115:ASP:OD2	1:N:234:PHE:HD1	1.87	0.58
1:S:239:ASN:OD1	1:S:239:ASN:N	2.36	0.58
1:S:276:PRO:CA	1:S:300:LEU:CD2	2.70	0.58
1:B:110:PRO:HD2	1:B:204:ALA:O	2.03	0.58
1:I:110:PRO:HD2	1:I:204:ALA:O	2.03	0.58
1:U:239:ASN:OD1	1:U:239:ASN:N	2.36	0.58
1:G:115:ASP:OD2	1:G:234:PHE:HD1	1.87	0.58
1:I:239:ASN:N	1:I:239:ASN:OD1	2.36	0.58
1:K:110:PRO:HD2	1:K:204:ALA:O	2.03	0.58
1:Q:115:ASP:OD2	1:Q:234:PHE:HD1	1.87	0.58
1:Q:276:PRO:CA	1:Q:300:LEU:CD2	2.70	0.58
1:L:110:PRO:HD2	1:L:204:ALA:O	2.03	0.58
1:P:276:PRO:CA	1:P:300:LEU:CD2	2.70	0.58
1:B:20:LEU:CD1	1:I:292:SER:HB3	2.34	0.58
1:D:20:LEU:CD1	1:K:292:SER:HB3	2.33	0.58
1:M:115:ASP:OD2	1:M:234:PHE:HD1	1.87	0.58
1:P:239:ASN:N	1:P:239:ASN:OD1	2.36	0.58
1:Q:276:PRO:HB3	1:Q:300:LEU:CD2	2.31	0.58
1:B:235:ASP:CB	1:B:257:VAL:CB	2.82	0.58
1:D:115:ASP:OD2	1:D:234:PHE:HD1	1.87	0.58
1:E:235:ASP:CB	1:E:257:VAL:CB	2.82	0.58
1:F:239:ASN:OD1	1:F:239:ASN:N	2.36	0.58
1:R:239:ASN:OD1	1:R:239:ASN:N	2.36	0.58
1:C:115:ASP:OD2	1:C:234:PHE:HD1	1.87	0.58
1:D:110:PRO:HD2	1:D:204:ALA:O	2.03	0.58
1:E:110:PRO:HD2	1:E:204:ALA:O	2.03	0.58
1:J:115:ASP:OD2	1:J:234:PHE:HD1	1.87	0.58
1:L:2:SER:HB3	1:L:3:PRO:HD3	1.86	0.58
1:H:20:LEU:CD1	1:O:292:SER:HB3	2.34	0.58
1:Q:239:ASN:N	1:Q:239:ASN:OD1	2.36	0.58
1:S:2:SER:HB3	1:S:3:PRO:HD3	1.86	0.58
1:B:2:SER:HB3	1:B:3:PRO:HD3	1.86	0.58
1:C:2:SER:HB3	1:C:3:PRO:HD3	1.86	0.58
1:D:276:PRO:CA	1:D:300:LEU:CD2	2.70	0.58
1:I:2:SER:HB3	1:I:3:PRO:HD3	1.86	0.58
1:J:2:SER:HB3	1:J:3:PRO:HD3	1.86	0.58
1:C:117:TYR:CE2	1:J:302:ILE:CG1	2.81	0.58
1:T:2:SER:HB3	1:T:3:PRO:HD3	1.86	0.58
1:A:110:PRO:HD2	1:A:204:ALA:O	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:115:ASP:OD2	1:A:234:PHE:HD1	1.87	0.57
1:H:239:ASN:OD1	1:H:239:ASN:N	2.36	0.57
1:H:302:ILE:C	1:H:303:THR:HG1	2.00	0.57
1:K:115:ASP:OD2	1:K:234:PHE:HD1	1.87	0.57
1:K:239:ASN:OD1	1:K:239:ASN:N	2.36	0.57
1:M:2:SER:HB3	1:M:3:PRO:HD3	1.86	0.57
1:G:19:VAL:HB	1:N:37:VAL:HG23	1.78	0.57
1:I:117:TYR:CE2	1:P:302:ILE:CG1	2.81	0.57
1:P:2:SER:HB3	1:P:3:PRO:HD3	1.86	0.57
1:Q:2:SER:HB3	1:Q:3:PRO:HD3	1.86	0.57
1:G:276:PRO:HB3	1:G:300:LEU:CD2	2.32	0.57
1:H:110:PRO:HD2	1:H:204:ALA:O	2.03	0.57
1:N:2:SER:HB3	1:N:3:PRO:HD3	1.86	0.57
1:T:115:ASP:OD2	1:T:234:PHE:HD1	1.87	0.57
1:U:115:ASP:OD2	1:U:234:PHE:HD1	1.87	0.57
1:D:82:VAL:CG1	1:D:85:GLY:HA3	2.35	0.57
1:E:20:LEU:CD1	1:L:292:SER:HB3	2.34	0.57
1:I:235:ASP:CB	1:I:257:VAL:CB	2.82	0.57
1:O:2:SER:HB3	1:O:3:PRO:HD3	1.86	0.57
1:U:2:SER:HB3	1:U:3:PRO:HD3	1.86	0.57
1:D:2:SER:HB3	1:D:3:PRO:HD3	1.86	0.57
1:F:82:VAL:CG1	1:F:85:GLY:HA3	2.35	0.57
1:G:2:SER:HB3	1:G:3:PRO:HD3	1.86	0.57
1:E:2:SER:HB3	1:E:3:PRO:HD3	1.86	0.57
1:F:2:SER:HB3	1:F:3:PRO:HD3	1.86	0.57
1:G:239:ASN:OD1	1:G:239:ASN:N	2.36	0.57
1:H:2:SER:HB3	1:H:3:PRO:HD3	1.86	0.57
1:H:45:ILE:HD11	1:H:264:ASN:HD21	1.70	0.57
1:C:20:LEU:CD1	1:J:292:SER:HB3	2.34	0.57
1:D:45:ILE:HD11	1:D:264:ASN:HD21	1.70	0.57
1:G:20:LEU:CD1	1:N:292:SER:HB3	2.33	0.57
1:G:82:VAL:CG1	1:G:85:GLY:HA3	2.35	0.57
1:H:82:VAL:CG1	1:H:85:GLY:HA3	2.35	0.57
1:J:276:PRO:CA	1:J:300:LEU:CD2	2.70	0.57
1:P:115:ASP:OD2	1:P:234:PHE:HD1	1.87	0.57
1:R:2:SER:HB3	1:R:3:PRO:HD3	1.86	0.57
1:T:82:VAL:CG1	1:T:85:GLY:HA3	2.35	0.57
1:U:82:VAL:CG1	1:U:85:GLY:HA3	2.35	0.57
1:B:82:VAL:CG1	1:B:85:GLY:HA3	2.35	0.57
1:I:45:ILE:HD11	1:I:264:ASN:HD21	1.70	0.57
1:J:45:ILE:HD11	1:J:264:ASN:HD21	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:2:SER:HB3	1:K:3:PRO:HD3	1.86	0.57
1:O:239:ASN:OD1	1:O:239:ASN:N	2.36	0.57
1:B:115:ASP:OD2	1:B:234:PHE:HD1	1.87	0.57
1:D:89:ILE:CG2	1:D:288:PHE:HE2	2.18	0.57
1:F:45:ILE:HD11	1:F:264:ASN:HD21	1.70	0.57
1:G:89:ILE:CG2	1:G:288:PHE:HE2	2.18	0.57
1:I:19:VAL:HB	1:P:37:VAL:HG23	1.78	0.57
1:I:20:LEU:CD1	1:P:292:SER:HB3	2.35	0.57
1:L:82:VAL:CG1	1:L:85:GLY:HA3	2.35	0.57
1:N:89:ILE:CG2	1:N:288:PHE:HE2	2.18	0.57
1:U:45:ILE:HD11	1:U:264:ASN:HD21	1.70	0.57
1:A:239:ASN:OD1	1:A:239:ASN:N	2.36	0.57
1:A:2:SER:HB3	1:A:3:PRO:HD3	1.86	0.57
1:B:89:ILE:CG2	1:B:288:PHE:HE2	2.18	0.57
1:E:115:ASP:OD2	1:E:234:PHE:HD1	1.87	0.57
1:I:115:ASP:OD2	1:I:234:PHE:HD1	1.87	0.57
1:L:115:ASP:OD2	1:L:234:PHE:HD1	1.87	0.57
1:L:235:ASP:CB	1:L:257:VAL:CB	2.82	0.57
1:M:239:ASN:OD1	1:M:239:ASN:N	2.36	0.57
1:Q:89:ILE:CG2	1:Q:288:PHE:HE2	2.18	0.57
1:R:82:VAL:CG1	1:R:85:GLY:HA3	2.35	0.57
1:S:115:ASP:OD2	1:S:234:PHE:HD1	1.87	0.57
1:S:45:ILE:HD11	1:S:264:ASN:HD21	1.70	0.57
1:U:89:ILE:CG2	1:U:288:PHE:HE2	2.18	0.57
1:C:276:PRO:CA	1:C:300:LEU:CD2	2.70	0.56
1:J:89:ILE:CG2	1:J:288:PHE:HE2	2.18	0.56
1:M:45:ILE:HD11	1:M:264:ASN:HD21	1.70	0.56
1:N:45:ILE:HD11	1:N:264:ASN:HD21	1.70	0.56
1:L:20:LEU:CD1	1:S:292:SER:HB3	2.35	0.56
1:B:117:TYR:CE2	1:I:302:ILE:CG1	2.83	0.56
1:F:115:ASP:OD2	1:F:234:PHE:HD1	1.87	0.56
1:K:89:ILE:CG2	1:K:288:PHE:HE2	2.18	0.56
1:R:302:ILE:C	1:R:303:THR:HG1	1.99	0.56
1:R:45:ILE:HD11	1:R:264:ASN:HD21	1.70	0.56
1:B:117:TYR:CZ	1:I:302:ILE:HG13	2.34	0.56
1:C:89:ILE:CG2	1:C:288:PHE:HE2	2.18	0.56
1:E:45:ILE:HD11	1:E:264:ASN:HD21	1.70	0.56
1:F:235:ASP:CB	1:F:257:VAL:HB	2.36	0.56
1:I:89:ILE:CG2	1:I:288:PHE:HE2	2.18	0.56
1:Q:45:ILE:HD11	1:Q:264:ASN:HD21	1.70	0.56
1:R:115:ASP:OD2	1:R:234:PHE:HD1	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:235:ASP:CB	1:R:257:VAL:CB	2.82	0.56
1:R:235:ASP:CB	1:R:257:VAL:HB	2.36	0.56
1:S:82:VAL:CG1	1:S:85:GLY:HA3	2.35	0.56
1:S:89:ILE:CG2	1:S:288:PHE:HE2	2.18	0.56
1:C:239:ASN:N	1:C:239:ASN:OD1	2.36	0.56
1:D:235:ASP:CB	1:D:257:VAL:HB	2.36	0.56
1:J:235:ASP:CB	1:J:257:VAL:HB	2.36	0.56
1:N:235:ASP:CB	1:N:257:VAL:HB	2.36	0.56
1:O:115:ASP:OD2	1:O:234:PHE:HD1	1.87	0.56
1:O:235:ASP:CB	1:O:257:VAL:CB	2.82	0.56
1:O:89:ILE:CG2	1:O:288:PHE:HE2	2.18	0.56
1:A:302:ILE:C	1:A:303:THR:HG1	1.99	0.56
1:A:89:ILE:CG2	1:A:288:PHE:HE2	2.18	0.56
1:H:235:ASP:CB	1:H:257:VAL:HB	2.36	0.56
1:J:82:VAL:CG1	1:J:85:GLY:HA3	2.35	0.56
1:K:82:VAL:CG1	1:K:85:GLY:HA3	2.35	0.56
1:L:45:ILE:HD11	1:L:264:ASN:HD21	1.70	0.56
1:A:235:ASP:CB	1:A:257:VAL:HB	2.36	0.56
1:F:276:PRO:HB3	1:F:300:LEU:CD2	2.32	0.56
1:L:235:ASP:CB	1:L:257:VAL:HB	2.36	0.56
1:N:19:VAL:HB	1:U:37:VAL:HG23	1.80	0.56
1:P:235:ASP:CB	1:P:257:VAL:HB	2.36	0.56
1:A:82:VAL:CG1	1:A:85:GLY:HA3	2.35	0.56
1:E:235:ASP:CB	1:E:257:VAL:HB	2.36	0.56
1:L:89:ILE:CG2	1:L:288:PHE:HE2	2.18	0.56
1:P:235:ASP:CB	1:P:257:VAL:CB	2.81	0.56
1:P:89:ILE:CG2	1:P:288:PHE:HE2	2.18	0.56
1:U:235:ASP:CB	1:U:257:VAL:HB	2.36	0.56
1:B:235:ASP:CB	1:B:257:VAL:HB	2.36	0.56
1:H:115:ASP:OD2	1:H:234:PHE:HD1	1.87	0.56
1:K:45:ILE:HD11	1:K:264:ASN:HD21	1.70	0.56
1:M:276:PRO:HB3	1:M:300:LEU:CD2	2.32	0.56
1:O:82:VAL:CG1	1:O:85:GLY:HA3	2.35	0.56
1:P:276:PRO:HB3	1:P:300:LEU:CD2	2.32	0.56
1:T:235:ASP:CB	1:T:257:VAL:HB	2.36	0.56
1:T:45:ILE:HD11	1:T:264:ASN:HD21	1.70	0.56
1:T:89:ILE:CG2	1:T:288:PHE:HE2	2.18	0.56
1:U:83:LEU:HD23	1:U:83:LEU:N	2.09	0.56
1:C:276:PRO:HB3	1:C:300:LEU:CD2	2.31	0.56
1:F:89:ILE:CG2	1:F:288:PHE:HE2	2.18	0.56
1:M:235:ASP:CB	1:M:257:VAL:HB	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:89:ILE:CG2	1:M:288:PHE:HE2	2.18	0.56
1:R:89:ILE:CG2	1:R:288:PHE:HE2	2.18	0.56
1:G:235:ASP:CB	1:G:257:VAL:CB	2.82	0.56
1:Q:235:ASP:CB	1:Q:257:VAL:HB	2.36	0.56
1:S:235:ASP:CB	1:S:257:VAL:HB	2.36	0.56
1:K:235:ASP:CB	1:K:257:VAL:HB	2.36	0.56
1:P:45:ILE:HD11	1:P:264:ASN:HD21	1.70	0.56
1:J:20:LEU:CD1	1:Q:292:SER:HB3	2.35	0.56
1:U:302:ILE:C	1:U:303:THR:HG1	2.00	0.56
1:A:45:ILE:HD11	1:A:264:ASN:HD21	1.70	0.55
1:C:45:ILE:HD11	1:C:264:ASN:HD21	1.70	0.55
1:E:302:ILE:C	1:E:303:THR:HG1	1.99	0.55
1:B:45:ILE:HD11	1:B:264:ASN:HD21	1.70	0.55
1:E:82:VAL:CG1	1:E:85:GLY:HA3	2.35	0.55
1:E:89:ILE:CG2	1:E:288:PHE:HE2	2.18	0.55
1:F:74:LEU:O	1:F:266:ALA:HA	2.07	0.55
1:G:45:ILE:HD11	1:G:264:ASN:HD21	1.70	0.55
1:G:302:ILE:C	1:G:303:THR:HG1	2.01	0.55
1:H:89:ILE:CG2	1:H:288:PHE:HE2	2.18	0.55
1:I:235:ASP:CB	1:I:257:VAL:HB	2.36	0.55
1:I:82:VAL:CG1	1:I:85:GLY:HA3	2.35	0.55
1:N:235:ASP:CB	1:N:257:VAL:CB	2.81	0.55
1:O:45:ILE:HD11	1:O:264:ASN:HD21	1.70	0.55
1:T:276:PRO:HB3	1:T:300:LEU:CD2	2.32	0.55
1:O:235:ASP:CB	1:O:257:VAL:HB	2.36	0.55
1:R:74:LEU:O	1:R:266:ALA:HA	2.07	0.55
1:S:235:ASP:CB	1:S:257:VAL:CB	2.81	0.55
1:C:235:ASP:CB	1:C:257:VAL:HB	2.36	0.55
1:I:276:PRO:HB3	1:I:300:LEU:CD2	2.32	0.55
1:J:74:LEU:O	1:J:266:ALA:HA	2.07	0.55
1:A:74:LEU:O	1:A:266:ALA:HA	2.07	0.55
1:H:74:LEU:O	1:H:266:ALA:HA	2.07	0.55
1:L:74:LEU:O	1:L:266:ALA:HA	2.07	0.55
1:M:82:VAL:CG1	1:M:85:GLY:HA3	2.35	0.55
1:G:235:ASP:CB	1:G:257:VAL:HB	2.36	0.55
1:J:276:PRO:HB3	1:J:300:LEU:CD2	2.32	0.55
1:K:20:LEU:CD1	1:R:292:SER:HB3	2.36	0.55
1:N:74:LEU:O	1:N:266:ALA:HA	2.07	0.55
1:O:302:ILE:C	1:O:303:THR:HG1	1.99	0.55
1:B:74:LEU:O	1:B:266:ALA:HA	2.07	0.55
1:J:235:ASP:CB	1:J:257:VAL:CB	2.82	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:302:ILE:C	1:L:303:THR:HG1	2.00	0.55
1:P:74:LEU:O	1:P:266:ALA:HA	2.07	0.55
1:D:74:LEU:O	1:D:266:ALA:HA	2.07	0.55
1:I:46:GLN:HE22	1:I:211:TRP:H	1.55	0.55
1:S:46:GLN:HE22	1:S:211:TRP:H	1.55	0.55
1:T:74:LEU:O	1:T:266:ALA:HA	2.07	0.55
1:E:74:LEU:O	1:E:266:ALA:HA	2.07	0.54
1:J:46:GLN:HE22	1:J:211:TRP:H	1.55	0.54
1:Q:235:ASP:CB	1:Q:257:VAL:CB	2.82	0.54
1:Q:46:GLN:HE22	1:Q:211:TRP:H	1.55	0.54
1:S:276:PRO:HB3	1:S:300:LEU:CD2	2.32	0.54
1:B:46:GLN:HE22	1:B:211:TRP:H	1.55	0.54
1:C:235:ASP:CB	1:C:257:VAL:CB	2.82	0.54
1:K:235:ASP:CB	1:K:257:VAL:CB	2.82	0.54
1:M:74:LEU:O	1:M:266:ALA:HA	2.07	0.54
1:P:83:LEU:HD23	1:P:83:LEU:N	2.09	0.54
1:N:20:LEU:CD1	1:U:292:SER:HB3	2.36	0.54
1:P:46:GLN:HE22	1:P:211:TRP:H	1.55	0.54
1:S:74:LEU:O	1:S:266:ALA:HA	2.07	0.54
1:B:276:PRO:HB3	1:B:300:LEU:CD2	2.31	0.54
1:K:74:LEU:O	1:K:266:ALA:HA	2.07	0.54
1:N:82:VAL:CG1	1:N:85:GLY:HA3	2.35	0.54
1:Q:74:LEU:O	1:Q:266:ALA:HA	2.07	0.54
1:C:74:LEU:O	1:C:266:ALA:HA	2.07	0.54
1:G:46:GLN:HE22	1:G:211:TRP:H	1.55	0.54
1:G:74:LEU:O	1:G:266:ALA:HA	2.07	0.54
1:K:83:LEU:N	1:K:83:LEU:HD23	2.09	0.54
1:O:74:LEU:O	1:O:266:ALA:HA	2.07	0.54
1:R:46:GLN:HE22	1:R:211:TRP:H	1.55	0.54
1:T:46:GLN:HE22	1:T:211:TRP:H	1.55	0.54
1:B:19:VAL:HB	1:I:37:VAL:HG23	1.78	0.54
1:F:83:LEU:HD23	1:F:83:LEU:N	2.09	0.54
1:H:46:GLN:HE22	1:H:211:TRP:H	1.55	0.54
1:M:20:LEU:CD1	1:T:292:SER:HB3	2.37	0.54
1:A:235:ASP:CB	1:A:257:VAL:CB	2.82	0.54
1:L:46:GLN:HE22	1:L:211:TRP:H	1.56	0.54
1:L:276:PRO:HB3	1:L:300:LEU:CD2	2.32	0.54
1:U:235:ASP:CB	1:U:257:VAL:CB	2.82	0.54
1:U:74:LEU:O	1:U:266:ALA:HA	2.07	0.54
1:A:46:GLN:HE22	1:A:211:TRP:H	1.56	0.54
1:F:46:GLN:HE22	1:F:211:TRP:H	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:74:LEU:HD11	1:I:284:VAL:HG21	1.89	0.54
1:B:239:ASN:O	1:B:240:THR:HG22	2.08	0.54
1:F:74:LEU:HD11	1:F:284:VAL:HG21	1.89	0.54
1:I:74:LEU:O	1:I:266:ALA:HA	2.07	0.54
1:M:239:ASN:O	1:M:240:THR:HG22	2.08	0.54
1:M:74:LEU:HD11	1:M:284:VAL:HG21	1.89	0.54
1:O:239:ASN:O	1:O:240:THR:HG22	2.08	0.54
1:P:74:LEU:HD11	1:P:284:VAL:HG21	1.89	0.54
1:S:74:LEU:HD11	1:S:284:VAL:HG21	1.89	0.54
1:B:74:LEU:HD11	1:B:284:VAL:HG21	1.89	0.54
1:C:239:ASN:O	1:C:240:THR:HG22	2.08	0.54
1:C:74:LEU:HD11	1:C:284:VAL:HG21	1.89	0.54
1:G:74:LEU:HD11	1:G:284:VAL:HG21	1.89	0.54
1:N:239:ASN:O	1:N:240:THR:HG22	2.08	0.54
1:S:239:ASN:O	1:S:240:THR:HG22	2.08	0.54
1:A:239:ASN:O	1:A:240:THR:HG22	2.08	0.53
1:D:302:ILE:C	1:D:303:THR:HG1	1.99	0.53
1:E:276:PRO:HB3	1:E:300:LEU:CD2	2.31	0.53
1:I:240:THR:C	1:I:241:HIS:HD1	2.12	0.53
1:L:74:LEU:HD11	1:L:284:VAL:HG21	1.89	0.53
1:M:302:ILE:C	1:M:303:THR:HG1	2.00	0.53
1:Q:74:LEU:HD11	1:Q:284:VAL:HG21	1.89	0.53
1:D:235:ASP:CB	1:D:257:VAL:CB	2.81	0.53
1:K:46:GLN:HE22	1:K:211:TRP:H	1.55	0.53
1:K:239:ASN:O	1:K:240:THR:HG22	2.08	0.53
1:T:74:LEU:HD11	1:T:284:VAL:HG21	1.89	0.53
1:B:235:ASP:HB3	1:B:257:VAL:HB	1.90	0.53
1:C:46:GLN:HE22	1:C:211:TRP:H	1.55	0.53
1:D:239:ASN:O	1:D:240:THR:HG22	2.08	0.53
1:D:74:LEU:HD11	1:D:284:VAL:HG21	1.89	0.53
1:E:239:ASN:O	1:E:240:THR:HG22	2.09	0.53
1:K:261:SER:OG	1:K:262:GLN:N	2.42	0.53
1:N:74:LEU:HD11	1:N:284:VAL:HG21	1.89	0.53
1:N:302:ILE:C	1:N:303:THR:HG1	1.99	0.53
1:T:239:ASN:O	1:T:240:THR:HG22	2.08	0.53
1:U:74:LEU:HD11	1:U:284:VAL:HG21	1.89	0.53
1:J:74:LEU:HD11	1:J:284:VAL:HG21	1.89	0.53
1:O:46:GLN:HE22	1:O:211:TRP:H	1.55	0.53
1:C:82:VAL:CG1	1:C:85:GLY:HA3	2.35	0.53
1:F:235:ASP:HB3	1:F:257:VAL:HB	1.91	0.53
1:F:239:ASN:O	1:F:240:THR:HG22	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:261:SER:OG	1:G:262:GLN:N	2.42	0.53
1:K:74:LEU:HD11	1:K:284:VAL:HG21	1.89	0.53
1:M:240:THR:C	1:M:241:HIS:HD1	2.11	0.53
1:K:236:ARG:CZ	1:R:280:GLN:CG	2.85	0.53
1:E:74:LEU:HD11	1:E:284:VAL:HG21	1.89	0.53
1:F:27:GLY:HA3	1:M:294:TRP:CE3	2.44	0.53
1:H:261:SER:OG	1:H:262:GLN:N	2.42	0.53
1:H:74:LEU:HD11	1:H:284:VAL:HG21	1.89	0.53
1:I:239:ASN:O	1:I:240:THR:HG22	2.08	0.53
1:J:261:SER:OG	1:J:262:GLN:N	2.42	0.53
1:L:235:ASP:HB3	1:L:257:VAL:HB	1.90	0.53
1:U:239:ASN:O	1:U:240:THR:HG22	2.08	0.53
1:A:27:GLY:HA3	1:H:294:TRP:CE3	2.43	0.53
1:J:239:ASN:O	1:J:240:THR:HG22	2.08	0.53
1:L:239:ASN:O	1:L:240:THR:HG22	2.08	0.53
1:O:74:LEU:HD11	1:O:284:VAL:HG21	1.89	0.53
1:Q:82:VAL:CG1	1:Q:85:GLY:HA3	2.35	0.53
1:R:239:ASN:O	1:R:240:THR:HG22	2.08	0.53
1:R:74:LEU:HD11	1:R:284:VAL:HG21	1.89	0.53
1:U:240:THR:OG1	1:U:241:HIS:N	2.42	0.53
1:A:74:LEU:HD11	1:A:284:VAL:HG21	1.89	0.53
1:G:240:THR:OG1	1:G:241:HIS:N	2.42	0.53
1:I:302:ILE:C	1:I:303:THR:HG1	2.00	0.53
1:K:240:THR:OG1	1:K:241:HIS:N	2.42	0.53
1:E:236:ARG:CZ	1:L:280:GLN:CG	2.87	0.53
1:H:236:ARG:CZ	1:O:280:GLN:CG	2.87	0.53
1:D:261:SER:OG	1:D:262:GLN:N	2.42	0.53
1:U:46:GLN:HE22	1:U:211:TRP:H	1.56	0.53
1:A:83:LEU:HD23	1:A:83:LEU:N	2.09	0.53
1:B:240:THR:OG1	1:B:241:HIS:N	2.42	0.53
1:E:261:SER:OG	1:E:262:GLN:N	2.42	0.53
1:G:239:ASN:O	1:G:240:THR:HG22	2.08	0.53
1:M:83:LEU:HD23	1:M:83:LEU:N	2.09	0.53
1:N:46:GLN:HE22	1:N:211:TRP:H	1.56	0.53
1:P:235:ASP:HB3	1:P:257:VAL:HB	1.91	0.53
1:J:240:THR:OG1	1:J:241:HIS:N	2.42	0.52
1:M:261:SER:OG	1:M:262:GLN:N	2.42	0.52
1:M:46:GLN:HE22	1:M:211:TRP:H	1.55	0.52
1:R:240:THR:C	1:R:241:HIS:HD1	2.12	0.52
1:S:240:THR:OG1	1:S:241:HIS:N	2.42	0.52
1:E:46:GLN:HE22	1:E:211:TRP:H	1.55	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:239:ASN:O	1:H:240:THR:HG22	2.08	0.52
1:P:239:ASN:O	1:P:240:THR:HG22	2.08	0.52
1:P:240:THR:OG1	1:P:241:HIS:N	2.42	0.52
1:Q:239:ASN:O	1:Q:240:THR:HG22	2.08	0.52
1:H:240:THR:OG1	1:H:241:HIS:N	2.42	0.52
1:A:261:SER:OG	1:A:262:GLN:N	2.42	0.52
1:D:240:THR:OG1	1:D:241:HIS:N	2.42	0.52
1:E:240:THR:OG1	1:E:241:HIS:N	2.42	0.52
1:N:240:THR:OG1	1:N:241:HIS:N	2.42	0.52
1:T:240:THR:OG1	1:T:241:HIS:N	2.42	0.52
1:B:261:SER:OG	1:B:262:GLN:N	2.42	0.52
1:C:240:THR:C	1:C:241:HIS:HD1	2.11	0.52
1:B:236:ARG:CZ	1:I:280:GLN:CG	2.87	0.52
1:P:82:VAL:CG1	1:P:85:GLY:HA3	2.35	0.52
1:U:235:ASP:HB3	1:U:257:VAL:HB	1.91	0.52
1:A:240:THR:OG1	1:A:241:HIS:N	2.42	0.52
1:C:261:SER:OG	1:C:262:GLN:N	2.42	0.52
1:A:236:ARG:CZ	1:H:280:GLN:CG	2.87	0.52
1:J:19:VAL:HB	1:Q:37:VAL:HG23	1.79	0.52
1:G:236:ARG:CZ	1:N:280:GLN:CG	2.87	0.52
1:Q:240:THR:OG1	1:Q:241:HIS:N	2.42	0.52
1:D:46:GLN:HE22	1:D:211:TRP:H	1.55	0.52
1:H:235:ASP:HB3	1:H:257:VAL:HB	1.90	0.52
1:I:261:SER:OG	1:I:262:GLN:N	2.42	0.52
1:J:235:ASP:HB3	1:J:257:VAL:HB	1.90	0.52
1:Q:235:ASP:HB3	1:Q:257:VAL:HB	1.90	0.52
1:R:240:THR:OG1	1:R:241:HIS:N	2.42	0.52
1:B:263:SER:OG	1:B:264:ASN:N	2.43	0.52
1:D:240:THR:C	1:D:241:HIS:HD1	2.11	0.52
1:M:240:THR:OG1	1:M:241:HIS:N	2.42	0.52
1:P:261:SER:OG	1:P:262:GLN:N	2.42	0.52
1:Q:240:THR:C	1:Q:241:HIS:HD1	2.11	0.52
1:S:263:SER:OG	1:S:264:ASN:N	2.43	0.52
1:B:27:GLY:HA3	1:I:294:TRP:CE3	2.45	0.52
1:C:83:LEU:N	1:C:83:LEU:HD23	2.09	0.52
1:O:263:SER:OG	1:O:264:ASN:N	2.43	0.52
1:F:240:THR:OG1	1:F:241:HIS:N	2.42	0.52
1:I:240:THR:OG1	1:I:241:HIS:N	2.42	0.52
1:L:263:SER:OG	1:L:264:ASN:N	2.43	0.52
1:P:263:SER:OG	1:P:264:ASN:N	2.43	0.52
1:I:83:LEU:HD23	1:I:83:LEU:N	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:240:THR:C	1:L:241:HIS:HD1	2.11	0.51
1:E:27:GLY:HA3	1:L:294:TRP:CE3	2.45	0.51
1:H:240:THR:C	1:H:241:HIS:HD1	2.11	0.51
1:P:240:THR:C	1:P:241:HIS:HD1	2.11	0.51
1:F:19:VAL:HB	1:M:37:VAL:HG23	1.77	0.51
1:F:263:SER:OG	1:F:264:ASN:N	2.43	0.51
1:J:245:ASP:HB3	1:J:250:ASN:HB2	1.92	0.51
1:L:19:VAL:HB	1:S:37:VAL:HG23	1.79	0.51
1:L:240:THR:OG1	1:L:241:HIS:N	2.42	0.51
1:S:261:SER:OG	1:S:262:GLN:N	2.42	0.51
1:C:240:THR:OG1	1:C:241:HIS:N	2.42	0.51
1:E:263:SER:OG	1:E:264:ASN:N	2.43	0.51
1:D:27:GLY:HA3	1:K:294:TRP:CE3	2.44	0.51
1:H:27:GLY:HA3	1:O:294:TRP:CE3	2.45	0.51
1:T:245:ASP:HB3	1:T:250:ASN:HB2	1.92	0.51
1:D:235:ASP:HB3	1:D:257:VAL:HB	1.90	0.51
1:E:235:ASP:HB3	1:E:257:VAL:HB	1.90	0.51
1:F:261:SER:OG	1:F:262:GLN:N	2.42	0.51
1:M:235:ASP:CB	1:M:257:VAL:CB	2.82	0.51
1:M:263:SER:OG	1:M:264:ASN:N	2.43	0.51
1:O:240:THR:OG1	1:O:241:HIS:N	2.42	0.51
1:Q:245:ASP:HB3	1:Q:250:ASN:HB2	1.92	0.51
1:R:235:ASP:HB3	1:R:257:VAL:HB	1.91	0.51
1:C:245:ASP:HB3	1:C:250:ASN:HB2	1.93	0.51
1:D:236:ARG:CZ	1:K:280:GLN:CG	2.88	0.51
1:C:27:GLY:HA3	1:J:294:TRP:CE3	2.46	0.51
1:T:235:ASP:HB3	1:T:257:VAL:HB	1.91	0.51
1:A:27:GLY:HA2	1:H:294:TRP:HZ3	0.90	0.51
1:M:245:ASP:HB3	1:M:250:ASN:HB2	1.93	0.51
1:G:27:GLY:HA3	1:N:294:TRP:CE3	2.45	0.51
1:A:263:SER:OG	1:A:264:ASN:N	2.43	0.51
1:G:245:ASP:HB3	1:G:250:ASN:HB2	1.93	0.51
1:H:263:SER:OG	1:H:264:ASN:N	2.43	0.51
1:K:263:SER:OG	1:K:264:ASN:N	2.43	0.51
1:R:83:LEU:HD23	1:R:83:LEU:N	2.09	0.51
1:A:240:THR:C	1:A:241:HIS:HD1	2.12	0.51
1:J:236:ARG:CZ	1:Q:280:GLN:CG	2.88	0.51
1:T:83:LEU:HD23	1:T:83:LEU:N	2.09	0.51
1:C:263:SER:OG	1:C:264:ASN:N	2.43	0.51
1:G:263:SER:OG	1:G:264:ASN:N	2.43	0.51
1:F:236:ARG:CZ	1:M:280:GLN:CG	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:235:ASP:HB3	1:N:257:VAL:HB	1.90	0.51
1:I:236:ARG:CZ	1:P:280:GLN:CG	2.89	0.51
1:U:261:SER:OG	1:U:262:GLN:N	2.42	0.51
1:I:263:SER:OG	1:I:264:ASN:N	2.43	0.50
1:O:261:SER:OG	1:O:262:GLN:N	2.42	0.50
1:R:263:SER:OG	1:R:264:ASN:N	2.43	0.50
1:T:263:SER:OG	1:T:264:ASN:N	2.43	0.50
1:H:245:ASP:HB3	1:H:250:ASN:HB2	1.93	0.50
1:Q:263:SER:OG	1:Q:264:ASN:N	2.43	0.50
1:N:236:ARG:CZ	1:U:280:GLN:CG	2.88	0.50
1:F:245:ASP:HB3	1:F:250:ASN:HB2	1.93	0.50
1:J:27:GLY:HA3	1:Q:294:TRP:CE3	2.46	0.50
1:O:245:ASP:HB3	1:O:250:ASN:HB2	1.93	0.50
1:R:245:ASP:HB3	1:R:250:ASN:HB2	1.93	0.50
1:U:263:SER:OG	1:U:264:ASN:N	2.43	0.50
1:A:245:ASP:HB3	1:A:250:ASN:HB2	1.93	0.50
1:N:245:ASP:HB3	1:N:250:ASN:HB2	1.92	0.50
1:Q:115:ASP:OD2	1:Q:234:PHE:CD1	2.65	0.50
1:L:27:GLY:HA3	1:S:294:TRP:CE3	2.46	0.50
1:U:240:THR:C	1:U:241:HIS:HD1	2.12	0.50
1:E:115:ASP:OD2	1:E:234:PHE:CD1	2.65	0.50
1:K:245:ASP:HB3	1:K:250:ASN:HB2	1.92	0.50
1:M:16:ALA:O	1:M:19:VAL:HG22	2.12	0.50
1:N:263:SER:OG	1:N:264:ASN:N	2.43	0.50
1:E:245:ASP:HB3	1:E:250:ASN:HB2	1.93	0.50
1:G:240:THR:C	1:G:241:HIS:HD1	2.11	0.50
1:J:16:ALA:O	1:J:19:VAL:HG22	2.12	0.50
1:C:236:ARG:CZ	1:J:280:GLN:CG	2.89	0.50
1:P:245:ASP:HB3	1:P:250:ASN:HB2	1.93	0.50
1:T:240:THR:C	1:T:241:HIS:HD1	2.11	0.50
1:G:115:ASP:OD2	1:G:234:PHE:CD1	2.65	0.50
1:I:115:ASP:OD2	1:I:234:PHE:CD1	2.65	0.50
1:J:263:SER:OG	1:J:264:ASN:N	2.43	0.50
1:N:16:ALA:O	1:N:19:VAL:HG22	2.12	0.50
1:S:115:ASP:OD2	1:S:234:PHE:CD1	2.65	0.50
1:D:242:TYR:CD2	1:D:242:TYR:C	2.86	0.50
1:D:245:ASP:HB3	1:D:250:ASN:HB2	1.92	0.50
1:F:235:ASP:CB	1:F:257:VAL:CB	2.82	0.50
1:L:245:ASP:HB3	1:L:250:ASN:HB2	1.93	0.50
1:L:261:SER:OG	1:L:262:GLN:N	2.42	0.50
1:L:236:ARG:CZ	1:S:280:GLN:CG	2.88	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:235:ASP:HB3	1:A:257:VAL:HB	1.91	0.50
1:B:240:THR:C	1:B:241:HIS:HD1	2.11	0.50
1:B:245:ASP:HB3	1:B:250:ASN:HB2	1.92	0.50
1:E:242:TYR:C	1:E:242:TYR:CD2	2.86	0.50
1:H:16:ALA:O	1:H:19:VAL:HG22	2.12	0.50
1:H:235:ASP:CB	1:H:257:VAL:CB	2.82	0.50
1:H:242:TYR:C	1:H:242:TYR:CD2	2.86	0.50
1:Q:16:ALA:O	1:Q:19:VAL:HG22	2.12	0.50
1:T:115:ASP:OD2	1:T:234:PHE:CD1	2.65	0.50
1:A:16:ALA:O	1:A:19:VAL:HG22	2.12	0.49
1:A:242:TYR:CD2	1:A:242:TYR:C	2.86	0.49
1:G:242:TYR:C	1:G:242:TYR:CD2	2.86	0.49
1:J:83:LEU:N	1:J:83:LEU:HD23	2.09	0.49
1:L:115:ASP:OD2	1:L:234:PHE:CD1	2.65	0.49
1:R:16:ALA:O	1:R:19:VAL:HG22	2.12	0.49
1:A:12:LEU:HD11	1:H:32:VAL:HG21	1.94	0.49
1:B:242:TYR:CD2	1:B:242:TYR:C	2.86	0.49
1:E:12:LEU:HD11	1:L:32:VAL:HG21	1.94	0.49
1:H:115:ASP:OD2	1:H:234:PHE:CD1	2.65	0.49
1:I:27:GLY:HA3	1:P:294:TRP:CE3	2.46	0.49
1:L:242:TYR:C	1:L:242:TYR:CD2	2.86	0.49
1:O:16:ALA:O	1:O:19:VAL:HG22	2.12	0.49
1:R:115:ASP:OD2	1:R:234:PHE:CD1	2.65	0.49
1:C:16:ALA:O	1:C:19:VAL:HG22	2.12	0.49
1:D:16:ALA:O	1:D:19:VAL:HG22	2.12	0.49
1:F:240:THR:C	1:F:241:HIS:HD1	2.11	0.49
1:K:242:TYR:C	1:K:242:TYR:CD2	2.86	0.49
1:O:115:ASP:OD2	1:O:234:PHE:CD1	2.65	0.49
1:S:245:ASP:HB3	1:S:250:ASN:HB2	1.92	0.49
1:U:245:ASP:HB3	1:U:250:ASN:HB2	1.93	0.49
1:C:12:LEU:HD11	1:J:32:VAL:HG21	1.95	0.49
1:C:19:VAL:HB	1:J:37:VAL:HG23	1.78	0.49
1:D:263:SER:OG	1:D:264:ASN:N	2.43	0.49
1:E:19:VAL:HB	1:L:37:VAL:HG23	1.78	0.49
1:F:16:ALA:O	1:F:19:VAL:HG22	2.12	0.49
1:O:242:TYR:C	1:O:242:TYR:CD2	2.86	0.49
1:R:51:ARG:HE	1:R:67:ARG:HA	1.78	0.49
1:M:27:GLY:HA3	1:T:294:TRP:CE3	2.48	0.49
1:B:115:ASP:OD2	1:B:234:PHE:CD1	2.65	0.49
1:E:16:ALA:O	1:E:19:VAL:HG22	2.12	0.49
1:H:83:LEU:N	1:H:83:LEU:HD23	2.09	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:16:ALA:O	1:I:19:VAL:HG22	2.12	0.49
1:K:16:ALA:O	1:K:19:VAL:HG22	2.12	0.49
1:T:16:ALA:O	1:T:19:VAL:HG22	2.12	0.49
1:T:51:ARG:HE	1:T:67:ARG:HA	1.78	0.49
1:H:51:ARG:HE	1:H:67:ARG:HA	1.78	0.49
1:I:242:TYR:C	1:I:242:TYR:CD2	2.86	0.49
1:I:245:ASP:HB3	1:I:250:ASN:HB2	1.93	0.49
1:J:242:TYR:CD2	1:J:242:TYR:C	2.86	0.49
1:D:12:LEU:HD11	1:K:32:VAL:HG21	1.94	0.49
1:N:242:TYR:C	1:N:242:TYR:CD2	2.86	0.49
1:P:51:ARG:HE	1:P:67:ARG:HA	1.78	0.49
1:F:12:LEU:HD11	1:M:32:VAL:HG21	1.95	0.49
1:F:115:ASP:OD2	1:F:234:PHE:CD1	2.65	0.49
1:F:51:ARG:HE	1:F:67:ARG:HA	1.78	0.49
1:J:51:ARG:HE	1:J:67:ARG:HA	1.78	0.49
1:P:16:ALA:O	1:P:19:VAL:HG22	2.12	0.49
1:R:261:SER:OG	1:R:262:GLN:N	2.42	0.49
1:A:115:ASP:OD2	1:A:234:PHE:CD1	2.65	0.49
1:A:51:ARG:HE	1:A:67:ARG:HA	1.78	0.49
1:B:51:ARG:HE	1:B:67:ARG:HA	1.78	0.49
1:D:115:ASP:OD2	1:D:234:PHE:CD1	2.65	0.49
1:J:115:ASP:OD2	1:J:234:PHE:CD1	2.65	0.49
1:S:83:LEU:HD23	1:S:83:LEU:N	2.09	0.49
1:U:16:ALA:O	1:U:19:VAL:HG22	2.12	0.49
1:U:242:TYR:CD2	1:U:242:TYR:C	2.86	0.49
1:G:16:ALA:O	1:G:19:VAL:HG22	2.12	0.49
1:M:115:ASP:OD2	1:M:234:PHE:CD1	2.65	0.49
1:M:242:TYR:C	1:M:242:TYR:CD2	2.86	0.49
1:F:242:TYR:CD2	1:F:242:TYR:C	2.86	0.49
1:G:51:ARG:HE	1:G:67:ARG:HA	1.78	0.49
1:K:51:ARG:HE	1:K:67:ARG:HA	1.78	0.49
1:N:51:ARG:HE	1:N:67:ARG:HA	1.78	0.49
1:Q:242:TYR:C	1:Q:242:TYR:CD2	2.86	0.49
1:T:242:TYR:C	1:T:242:TYR:CD2	2.86	0.49
1:H:19:VAL:HB	1:O:37:VAL:HG23	1.78	0.48
1:A:23:THR:OG1	1:H:38:THR:HG23	2.12	0.48
1:L:16:ALA:O	1:L:19:VAL:HG22	2.12	0.48
1:R:242:TYR:C	1:R:242:TYR:CD2	2.86	0.48
1:S:16:ALA:O	1:S:19:VAL:HG22	2.12	0.48
1:S:240:THR:C	1:S:241:HIS:HD1	2.11	0.48
1:S:51:ARG:HE	1:S:67:ARG:HA	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:51:ARG:HE	1:C:67:ARG:HA	1.78	0.48
1:K:240:THR:C	1:K:241:HIS:HD1	2.11	0.48
1:L:51:ARG:HE	1:L:67:ARG:HA	1.78	0.48
1:F:23:THR:OG1	1:M:38:THR:HG23	2.13	0.48
1:O:51:ARG:HE	1:O:67:ARG:HA	1.78	0.48
1:P:115:ASP:OD2	1:P:234:PHE:CD1	2.65	0.48
1:K:115:ASP:OD2	1:K:234:PHE:CD1	2.65	0.48
1:S:242:TYR:C	1:S:242:TYR:CD2	2.86	0.48
1:U:51:ARG:HE	1:U:67:ARG:HA	1.78	0.48
1:A:46:GLN:HG2	1:A:75:SER:HB3	1.96	0.48
1:H:46:GLN:HG2	1:H:75:SER:HB3	1.96	0.48
1:P:242:TYR:CD2	1:P:242:TYR:C	2.86	0.48
1:A:27:GLY:O	1:H:294:TRP:CZ3	2.67	0.48
1:B:16:ALA:O	1:B:19:VAL:HG22	2.12	0.48
1:C:115:ASP:OD2	1:C:234:PHE:CD1	2.65	0.48
1:I:51:ARG:HE	1:I:67:ARG:HA	1.78	0.48
1:O:46:GLN:HG2	1:O:75:SER:HB3	1.96	0.48
1:U:115:ASP:OD2	1:U:234:PHE:CD1	2.65	0.48
1:U:46:GLN:HG2	1:U:75:SER:HB3	1.96	0.48
1:M:19:VAL:HB	1:T:37:VAL:HG23	1.80	0.48
1:C:242:TYR:C	1:C:242:TYR:CD2	2.86	0.48
1:E:51:ARG:HE	1:E:67:ARG:HA	1.78	0.48
1:N:115:ASP:OD2	1:N:234:PHE:CD1	2.65	0.48
1:N:46:GLN:HG2	1:N:75:SER:HB3	1.96	0.48
1:M:236:ARG:CZ	1:T:280:GLN:CG	2.89	0.48
1:I:12:LEU:HD11	1:P:32:VAL:HG21	1.96	0.48
1:J:113:ALA:HA	1:J:130:GLY:HA3	1.96	0.48
1:M:113:ALA:HA	1:M:130:GLY:HA3	1.96	0.48
1:N:240:THR:C	1:N:241:HIS:HD1	2.12	0.48
1:C:113:ALA:HA	1:C:130:GLY:HA3	1.96	0.47
1:D:51:ARG:HE	1:D:67:ARG:HA	1.78	0.47
1:J:240:THR:C	1:J:241:HIS:HD1	2.11	0.47
1:M:51:ARG:HE	1:M:67:ARG:HA	1.78	0.47
1:N:261:SER:OG	1:N:262:GLN:N	2.42	0.47
1:O:240:THR:C	1:O:241:HIS:HD1	2.11	0.47
1:Q:113:ALA:HA	1:Q:130:GLY:HA3	1.96	0.47
1:S:46:GLN:HG2	1:S:75:SER:HB3	1.96	0.47
1:T:113:ALA:HA	1:T:130:GLY:HA3	1.96	0.47
1:N:27:GLY:HA3	1:U:294:TRP:CE3	2.47	0.47
1:C:236:ARG:HH12	1:J:280:GLN:CG	2.15	0.47
1:G:113:ALA:HA	1:G:130:GLY:HA3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:46:GLN:HG2	1:L:75:SER:HB3	1.96	0.47
1:Q:51:ARG:HE	1:Q:67:ARG:HA	1.78	0.47
1:Q:1:VAL:HG12	1:U:14:ALA:HB2	1.95	0.47
1:B:46:GLN:HG2	1:B:75:SER:HB3	1.96	0.47
1:E:46:GLN:HG2	1:E:75:SER:HB3	1.96	0.47
1:F:113:ALA:HA	1:F:130:GLY:HA3	1.96	0.47
1:K:27:GLY:HA3	1:R:294:TRP:CE3	2.48	0.47
1:A:237:PHE:HA	1:A:255:PHE:HA	1.97	0.47
1:G:237:PHE:HA	1:G:255:PHE:HA	1.97	0.47
1:K:237:PHE:HA	1:K:255:PHE:HA	1.97	0.47
1:O:73:ILE:O	1:O:74:LEU:HD23	2.15	0.47
1:R:73:ILE:O	1:R:74:LEU:HD23	2.15	0.47
1:R:46:GLN:HG2	1:R:75:SER:HB3	1.96	0.47
1:T:302:ILE:C	1:T:303:THR:HG1	2.01	0.47
1:B:12:LEU:HD11	1:I:32:VAL:HG21	1.97	0.47
1:E:23:THR:OG1	1:L:38:THR:HG23	2.14	0.47
1:E:73:ILE:O	1:E:74:LEU:HD23	2.15	0.47
1:F:73:ILE:O	1:F:74:LEU:HD23	2.15	0.47
1:G:46:GLN:HG2	1:G:75:SER:HB3	1.96	0.47
1:H:73:ILE:O	1:H:74:LEU:HD23	2.15	0.47
1:A:73:ILE:O	1:A:74:LEU:HD23	2.15	0.47
1:B:236:ARG:NH1	1:I:280:GLN:HG2	2.26	0.47
1:B:73:ILE:O	1:B:74:LEU:HD23	2.15	0.47
1:H:237:PHE:HA	1:H:255:PHE:HA	1.97	0.47
1:N:237:PHE:HA	1:N:255:PHE:HA	1.97	0.47
1:O:237:PHE:HA	1:O:255:PHE:HA	1.97	0.47
1:P:113:ALA:HA	1:P:130:GLY:HA3	1.96	0.47
1:R:237:PHE:HA	1:R:255:PHE:HA	1.97	0.47
1:S:73:ILE:O	1:S:74:LEU:HD23	2.15	0.47
1:D:237:PHE:HA	1:D:255:PHE:HA	1.97	0.47
1:E:237:PHE:HA	1:E:255:PHE:HA	1.97	0.47
1:F:46:GLN:HG2	1:F:75:SER:HB3	1.96	0.47
1:J:237:PHE:HA	1:J:255:PHE:HA	1.97	0.47
1:J:73:ILE:O	1:J:74:LEU:HD23	2.15	0.47
1:K:73:ILE:O	1:K:74:LEU:HD23	2.15	0.47
1:U:237:PHE:HA	1:U:255:PHE:HA	1.97	0.47
1:K:46:GLN:HG2	1:K:75:SER:HB3	1.96	0.47
1:L:73:ILE:O	1:L:74:LEU:HD23	2.15	0.47
1:N:113:ALA:HA	1:N:130:GLY:HA3	1.96	0.47
1:Q:237:PHE:HA	1:Q:255:PHE:HA	1.97	0.47
1:Q:261:SER:OG	1:Q:262:GLN:N	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:237:PHE:HA	1:T:255:PHE:HA	1.97	0.47
1:D:235:ASP:N	1:D:257:VAL:O	2.40	0.47
1:F:27:GLY:O	1:M:294:TRP:CZ3	2.68	0.47
1:J:46:GLN:HG2	1:J:75:SER:HB3	1.96	0.47
1:P:73:ILE:O	1:P:74:LEU:HD23	2.15	0.47
1:Q:46:GLN:HG2	1:Q:75:SER:HB3	1.96	0.47
1:T:73:ILE:O	1:T:74:LEU:HD23	2.15	0.47
1:U:73:ILE:O	1:U:74:LEU:HD23	2.15	0.47
1:D:113:ALA:HA	1:D:130:GLY:HA3	1.96	0.47
1:C:237:PHE:HA	1:C:255:PHE:HA	1.97	0.47
1:C:46:GLN:HG2	1:C:75:SER:HB3	1.96	0.47
1:D:73:ILE:O	1:D:74:LEU:HD23	2.15	0.47
1:I:73:ILE:O	1:I:74:LEU:HD23	2.15	0.47
1:D:23:THR:OG1	1:K:38:THR:HG23	2.13	0.47
1:P:1:VAL:HG12	1:T:14:ALA:HB2	1.97	0.47
1:B:237:PHE:HA	1:B:255:PHE:HA	1.97	0.46
1:C:23:THR:OG1	1:J:38:THR:HG23	2.15	0.46
1:G:56:VAL:HG13	1:G:60:ILE:HD11	1.97	0.46
1:I:113:ALA:HA	1:I:130:GLY:HA3	1.96	0.46
1:L:237:PHE:HA	1:L:255:PHE:HA	1.97	0.46
1:U:56:VAL:HG13	1:U:60:ILE:HD11	1.97	0.46
1:D:27:GLY:O	1:K:294:TRP:CZ3	2.68	0.46
1:I:23:THR:OG1	1:P:38:THR:HG23	2.16	0.46
1:M:237:PHE:HA	1:M:255:PHE:HA	1.97	0.46
1:M:73:ILE:O	1:M:74:LEU:HD23	2.15	0.46
1:N:73:ILE:O	1:N:74:LEU:HD23	2.15	0.46
1:H:12:LEU:HD11	1:O:32:VAL:HG21	1.97	0.46
1:T:46:GLN:HG2	1:T:75:SER:HB3	1.96	0.46
1:U:113:ALA:HA	1:U:130:GLY:HA3	1.96	0.46
1:C:73:ILE:O	1:C:74:LEU:HD23	2.15	0.46
1:D:46:GLN:HG2	1:D:75:SER:HB3	1.96	0.46
1:E:27:GLY:O	1:L:294:TRP:CZ3	2.68	0.46
1:G:12:LEU:HD11	1:N:32:VAL:HG21	1.97	0.46
1:B:23:THR:OG1	1:I:38:THR:HG23	2.15	0.46
1:M:46:GLN:HG2	1:M:75:SER:HB3	1.96	0.46
1:H:23:THR:OG1	1:O:38:THR:HG23	2.15	0.46
1:P:248:ASN:O	1:P:249:ASN:HB2	2.16	0.46
1:S:237:PHE:HA	1:S:255:PHE:HA	1.97	0.46
1:I:41:SER:HB3	1:I:294:TRP:CZ2	2.51	0.46
1:I:46:GLN:HG2	1:I:75:SER:HB3	1.96	0.46
1:K:248:ASN:O	1:K:249:ASN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:117:TYR:CE2	1:K:302:ILE:CG1	2.83	0.46
1:O:1:VAL:HG12	1:S:14:ALA:HB2	1.97	0.46
1:U:41:SER:HB3	1:U:294:TRP:CZ2	2.51	0.46
1:D:248:ASN:O	1:D:249:ASN:HB2	2.16	0.46
1:F:237:PHE:HA	1:F:255:PHE:HA	1.97	0.46
1:I:237:PHE:HA	1:I:255:PHE:HA	1.97	0.46
1:J:41:SER:HB3	1:J:294:TRP:CZ2	2.51	0.46
1:L:12:LEU:HD11	1:S:32:VAL:HG21	1.98	0.46
1:J:12:LEU:HD11	1:Q:32:VAL:HG21	1.97	0.46
1:T:248:ASN:O	1:T:249:ASN:HB2	2.16	0.46
1:T:41:SER:HB3	1:T:294:TRP:CZ2	2.51	0.46
1:E:41:SER:HB3	1:E:294:TRP:CZ2	2.51	0.46
1:E:13:ILE:HG12	1:H:22:TYR:HD1	1.80	0.46
1:M:248:ASN:O	1:M:249:ASN:HB2	2.16	0.46
1:O:41:SER:HB3	1:O:294:TRP:CZ2	2.51	0.46
1:P:237:PHE:HA	1:P:255:PHE:HA	1.97	0.46
1:S:113:ALA:HA	1:S:130:GLY:HA3	1.96	0.46
1:S:248:ASN:O	1:S:249:ASN:HB2	2.16	0.46
1:G:73:ILE:O	1:G:74:LEU:HD23	2.15	0.46
1:I:248:ASN:O	1:I:249:ASN:HB2	2.16	0.46
1:I:56:VAL:HG13	1:I:60:ILE:HD11	1.97	0.46
1:K:113:ALA:HA	1:K:130:GLY:HA3	1.96	0.46
1:K:41:SER:HB3	1:K:294:TRP:CZ2	2.51	0.46
1:K:56:VAL:HG13	1:K:60:ILE:HD11	1.97	0.46
1:N:41:SER:HB3	1:N:294:TRP:CZ2	2.51	0.46
1:P:41:SER:HB3	1:P:294:TRP:CZ2	2.51	0.46
1:P:46:GLN:HG2	1:P:75:SER:HB3	1.96	0.46
1:R:248:ASN:O	1:R:249:ASN:HB2	2.16	0.46
1:C:41:SER:HB3	1:C:294:TRP:CZ2	2.51	0.46
1:D:41:SER:HB3	1:D:294:TRP:CZ2	2.51	0.46
1:D:56:VAL:HG13	1:D:60:ILE:HD11	1.97	0.46
1:E:113:ALA:HA	1:E:130:GLY:HA3	1.96	0.46
1:F:77:GLN:HB2	1:F:264:ASN:ND2	2.25	0.46
1:L:56:VAL:HG13	1:L:60:ILE:HD11	1.97	0.46
1:M:41:SER:HB3	1:M:294:TRP:CZ2	2.51	0.46
1:O:248:ASN:O	1:O:249:ASN:HB2	2.16	0.46
1:P:56:VAL:HG13	1:P:60:ILE:HD11	1.97	0.46
1:P:77:GLN:HB2	1:P:264:ASN:ND2	2.25	0.46
1:Q:41:SER:HB3	1:Q:294:TRP:CZ2	2.51	0.46
1:Q:73:ILE:O	1:Q:74:LEU:HD23	2.15	0.46
1:S:41:SER:HB3	1:S:294:TRP:CZ2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:27:GLY:O	1:I:294:TRP:CZ3	2.69	0.46
1:F:41:SER:HB3	1:F:294:TRP:CZ2	2.51	0.46
1:G:41:SER:HB3	1:G:294:TRP:CZ2	2.51	0.46
1:H:235:ASP:N	1:H:257:VAL:O	2.40	0.46
1:H:56:VAL:HG13	1:H:60:ILE:HD11	1.97	0.46
1:I:235:ASP:N	1:I:257:VAL:O	2.40	0.46
1:K:117:TYR:HH	1:R:302:ILE:CD1	1.91	0.46
1:J:1:VAL:HG12	1:N:14:ALA:HB2	1.97	0.46
1:G:23:THR:OG1	1:N:38:THR:HG23	2.15	0.46
1:O:83:LEU:N	1:O:83:LEU:HD23	2.09	0.46
1:Q:248:ASN:O	1:Q:249:ASN:HB2	2.16	0.46
1:S:56:VAL:HG13	1:S:60:ILE:HD11	1.97	0.46
1:A:113:ALA:HA	1:A:130:GLY:HA3	1.96	0.46
1:A:248:ASN:O	1:A:249:ASN:HB2	2.16	0.46
1:B:113:ALA:HA	1:B:130:GLY:HA3	1.96	0.46
1:E:42:LEU:CD2	1:E:42:LEU:N	2.72	0.46
1:G:27:GLY:O	1:N:294:TRP:CZ3	2.69	0.46
1:H:113:ALA:HA	1:H:130:GLY:HA3	1.96	0.46
1:H:248:ASN:O	1:H:249:ASN:HB2	2.16	0.46
1:H:41:SER:HB3	1:H:294:TRP:CZ2	2.51	0.46
1:I:77:GLN:HB2	1:I:264:ASN:ND2	2.25	0.46
1:J:56:VAL:HG13	1:J:60:ILE:HD11	1.97	0.46
1:L:113:ALA:HA	1:L:130:GLY:HA3	1.96	0.46
1:L:248:ASN:O	1:L:249:ASN:HB2	2.16	0.46
1:O:113:ALA:HA	1:O:130:GLY:HA3	1.96	0.46
1:P:83:LEU:H	1:P:83:LEU:CD2	2.15	0.46
1:L:23:THR:OG1	1:S:38:THR:HG23	2.16	0.46
1:T:56:VAL:HG13	1:T:60:ILE:HD11	1.97	0.46
1:A:41:SER:HB3	1:A:294:TRP:CZ2	2.51	0.45
1:J:235:ASP:N	1:J:257:VAL:O	2.40	0.45
1:L:83:LEU:HD23	1:L:83:LEU:N	2.09	0.45
1:M:12:LEU:HD11	1:T:32:VAL:HG21	1.99	0.45
1:O:42:LEU:N	1:O:42:LEU:CD2	2.73	0.45
1:Q:56:VAL:HG13	1:Q:60:ILE:HD11	1.97	0.45
1:E:56:VAL:HG13	1:E:60:ILE:HD11	1.97	0.45
1:G:13:ILE:HG12	1:J:22:TYR:HD1	1.82	0.45
1:J:248:ASN:O	1:J:249:ASN:HB2	2.16	0.45
1:R:113:ALA:HA	1:R:130:GLY:HA3	1.96	0.45
1:T:261:SER:OG	1:T:262:GLN:N	2.42	0.45
1:B:248:ASN:O	1:B:249:ASN:HB2	2.16	0.45
1:B:41:SER:HB3	1:B:294:TRP:CZ2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:56:VAL:HG13	1:B:60:ILE:HD11	1.97	0.45
1:F:248:ASN:O	1:F:249:ASN:HB2	2.16	0.45
1:M:1:VAL:HG12	1:Q:14:ALA:HB2	1.98	0.45
1:S:77:GLN:HB2	1:S:264:ASN:ND2	2.25	0.45
1:E:248:ASN:O	1:E:249:ASN:HB2	2.16	0.45
1:F:56:VAL:HG13	1:F:60:ILE:HD11	1.97	0.45
1:A:19:VAL:CA	1:H:37:VAL:HG21	2.47	0.45
1:J:42:LEU:N	1:J:42:LEU:CD2	2.72	0.45
1:M:56:VAL:HG13	1:M:60:ILE:HD11	1.97	0.45
1:L:41:SER:HB3	1:L:294:TRP:CZ2	2.51	0.45
1:N:248:ASN:O	1:N:249:ASN:HB2	2.16	0.45
1:J:23:THR:OG1	1:Q:38:THR:HG23	2.16	0.45
1:R:56:VAL:HG13	1:R:60:ILE:HD11	1.97	0.45
1:C:56:VAL:HG13	1:C:60:ILE:HD11	1.97	0.45
1:O:56:VAL:HG13	1:O:60:ILE:HD11	1.97	0.45
1:B:83:LEU:HD23	1:B:83:LEU:N	2.09	0.45
1:E:240:THR:C	1:E:241:HIS:HD1	2.12	0.45
1:M:77:GLN:HB2	1:M:264:ASN:ND2	2.25	0.45
1:R:41:SER:HB3	1:R:294:TRP:CZ2	2.51	0.45
1:C:248:ASN:O	1:C:249:ASN:HB2	2.16	0.45
1:H:27:GLY:O	1:O:294:TRP:CZ3	2.70	0.45
1:N:56:VAL:HG13	1:N:60:ILE:HD11	1.97	0.45
1:C:27:GLY:O	1:J:294:TRP:CZ3	2.70	0.45
1:J:27:GLY:O	1:Q:294:TRP:CZ3	2.70	0.45
1:B:77:GLN:HB2	1:B:264:ASN:ND2	2.25	0.45
1:G:248:ASN:O	1:G:249:ASN:HB2	2.16	0.45
1:N:1:VAL:HG12	1:R:14:ALA:HB2	1.97	0.45
1:H:1:VAL:HG12	1:L:14:ALA:HB2	1.99	0.44
1:T:54:THR:HG22	1:T:197:PHE:HB2	1.99	0.44
1:T:42:LEU:CD2	1:T:42:LEU:N	2.72	0.44
1:U:248:ASN:O	1:U:249:ASN:HB2	2.16	0.44
1:C:54:THR:HG22	1:C:197:PHE:HB2	1.99	0.44
1:B:1:VAL:HG12	1:F:14:ALA:HB2	2.00	0.44
1:I:27:GLY:O	1:P:294:TRP:CZ3	2.70	0.44
1:J:54:THR:HG22	1:J:197:PHE:HB2	1.99	0.44
1:Q:54:THR:HG22	1:Q:197:PHE:HB2	1.99	0.44
1:A:56:VAL:HG13	1:A:60:ILE:HD11	1.97	0.44
1:B:54:THR:HG22	1:B:197:PHE:HB2	1.99	0.44
1:E:54:THR:HG22	1:E:197:PHE:HB2	1.99	0.44
1:E:83:LEU:HD23	1:E:83:LEU:N	2.09	0.44
1:G:54:THR:HG22	1:G:197:PHE:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:54:THR:HG22	1:L:197:PHE:HB2	1.99	0.44
1:N:235:ASP:N	1:N:257:VAL:O	2.40	0.44
1:P:264:ASN:HD22	1:P:264:ASN:HA	1.63	0.44
1:K:12:LEU:HD11	1:R:32:VAL:HG21	1.98	0.44
1:F:27:GLY:CA	1:M:294:TRP:CE3	2.89	0.44
1:I:13:ILE:HG12	1:L:22:TYR:HD1	1.82	0.44
1:I:1:VAL:HG12	1:M:14:ALA:HB2	2.00	0.44
1:M:23:THR:OG1	1:T:38:THR:HG23	2.18	0.44
1:O:54:THR:HG22	1:O:197:PHE:HB2	1.99	0.44
1:S:235:ASP:N	1:S:257:VAL:O	2.40	0.44
1:A:23:THR:HG21	1:H:38:THR:CG2	2.47	0.44
1:C:271:CYS:HA	1:C:272:PRO:HD3	1.87	0.44
1:H:54:THR:HG22	1:H:197:PHE:HB2	1.99	0.44
1:L:1:VAL:HG12	1:P:14:ALA:HB2	2.00	0.44
1:M:54:THR:HG22	1:M:197:PHE:HB2	1.99	0.44
1:P:83:LEU:HB2	1:P:84:GLN:H	1.69	0.44
1:R:54:THR:HG22	1:R:197:PHE:HB2	1.99	0.44
1:A:54:THR:HG22	1:A:197:PHE:HB2	1.99	0.44
1:C:77:GLN:HB2	1:C:264:ASN:ND2	2.25	0.44
1:F:236:ARG:NH1	1:M:280:GLN:HG2	2.27	0.44
1:L:77:GLN:HB2	1:L:264:ASN:ND2	2.25	0.44
1:S:54:THR:HG22	1:S:197:PHE:HB2	1.99	0.44
1:F:83:LEU:CD2	1:F:83:LEU:H	2.15	0.44
1:O:3:PRO:HB3	1:P:10:LEU:HD12	2.00	0.44
1:L:13:ILE:HG12	1:O:22:TYR:HD1	1.82	0.44
1:N:54:THR:HG22	1:N:197:PHE:HB2	1.99	0.44
1:N:27:GLY:O	1:U:294:TRP:CZ3	2.71	0.44
1:H:19:VAL:CA	1:O:37:VAL:HG21	2.48	0.44
1:L:27:GLY:O	1:S:294:TRP:CZ3	2.70	0.44
1:N:12:LEU:HD11	1:U:32:VAL:HG21	1.99	0.44
1:H:13:ILE:HG12	1:K:22:TYR:HD1	1.83	0.44
1:A:20:LEU:HD11	1:H:292:SER:HB3	2.00	0.44
1:K:23:THR:HG21	1:R:38:THR:CG2	2.48	0.44
1:K:54:THR:HG22	1:K:197:PHE:HB2	1.99	0.44
1:R:235:ASP:N	1:R:257:VAL:O	2.40	0.44
1:T:235:ASP:N	1:T:257:VAL:O	2.40	0.44
1:C:42:LEU:N	1:C:42:LEU:CD2	2.73	0.43
1:D:54:THR:HG22	1:D:197:PHE:HB2	1.99	0.43
1:E:23:THR:HG21	1:L:38:THR:CG2	2.48	0.43
1:I:54:THR:HG22	1:I:197:PHE:HB2	1.99	0.43
1:L:83:LEU:HB2	1:L:84:GLN:H	1.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:271:CYS:HA	1:M:272:PRO:HD3	1.86	0.43
1:F:19:VAL:CA	1:M:37:VAL:HG21	2.48	0.43
1:M:27:GLY:O	1:T:294:TRP:CZ3	2.71	0.43
1:U:236:ARG:CG	1:U:237:PHE:N	2.81	0.43
1:B:23:THR:HG21	1:I:38:THR:CG2	2.49	0.43
1:F:13:ILE:HG12	1:I:22:TYR:HD1	1.83	0.43
1:F:54:THR:HG22	1:F:197:PHE:HB2	1.99	0.43
1:C:1:VAL:HG12	1:G:14:ALA:HB2	2.00	0.43
1:J:13:ILE:HG12	1:M:22:TYR:HD1	1.83	0.43
1:F:20:LEU:HD11	1:M:292:SER:HB3	2.00	0.43
1:E:235:ASP:N	1:E:257:VAL:O	2.40	0.43
1:K:27:GLY:O	1:R:294:TRP:CZ3	2.71	0.43
1:M:13:ILE:HG12	1:P:22:TYR:HD1	1.83	0.43
1:N:13:ILE:HG12	1:Q:22:TYR:HD1	1.83	0.43
1:T:77:GLN:HB2	1:T:264:ASN:ND2	2.25	0.43
1:U:54:THR:HG22	1:U:197:PHE:HB2	1.99	0.43
1:E:264:ASN:HA	1:E:264:ASN:HD22	1.63	0.43
1:E:19:VAL:CA	1:L:37:VAL:HG21	2.49	0.43
1:P:54:THR:HG22	1:P:197:PHE:HB2	1.99	0.43
1:K:23:THR:OG1	1:R:38:THR:HG23	2.18	0.43
1:F:23:THR:HG21	1:M:38:THR:CG2	2.48	0.43
1:D:19:VAL:CA	1:K:37:VAL:HG21	2.48	0.43
1:G:19:VAL:CA	1:N:37:VAL:HG21	2.48	0.43
1:P:271:CYS:HA	1:P:272:PRO:HD3	1.86	0.43
1:R:13:ILE:HG12	1:U:22:TYR:HD1	1.84	0.43
1:B:235:ASP:N	1:B:257:VAL:O	2.40	0.43
1:H:236:ARG:CG	1:H:237:PHE:N	2.81	0.43
1:B:19:VAL:CA	1:I:37:VAL:HG21	2.49	0.43
1:N:23:THR:OG1	1:U:38:THR:HG23	2.17	0.43
1:J:236:ARG:CG	1:J:237:PHE:N	2.81	0.43
1:B:236:ARG:HH12	1:I:280:GLN:CG	2.11	0.43
1:A:13:ILE:HG12	1:D:22:TYR:HD1	1.84	0.43
1:F:276:PRO:CB	1:F:300:LEU:CD2	2.88	0.43
1:G:23:THR:HG21	1:N:38:THR:CG2	2.49	0.43
1:E:1:VAL:HG12	1:I:14:ALA:HB2	2.01	0.43
1:I:264:ASN:HD22	1:I:264:ASN:HA	1.63	0.43
1:J:51:ARG:NH2	1:J:68:SER:H	2.17	0.43
1:H:20:LEU:HD11	1:O:292:SER:HB3	2.01	0.43
1:A:1:VAL:HG12	1:E:14:ALA:HB2	2.00	0.42
1:G:51:ARG:NH2	1:G:68:SER:H	2.17	0.42
1:I:51:ARG:NH2	1:I:68:SER:H	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:3:PRO:HB3	1:M:10:LEU:HD12	2.01	0.42
1:M:276:PRO:CB	1:M:300:LEU:CD2	2.88	0.42
1:A:45:ILE:HD11	1:A:77:GLN:HB2	2.01	0.42
1:C:51:ARG:NH2	1:C:68:SER:H	2.17	0.42
1:D:51:ARG:NH2	1:D:68:SER:H	2.17	0.42
1:F:271:CYS:HA	1:F:272:PRO:HD3	1.86	0.42
1:B:20:LEU:HD11	1:I:292:SER:HB3	2.01	0.42
1:K:83:LEU:HB2	1:K:84:GLN:H	1.69	0.42
1:L:51:ARG:NH2	1:L:68:SER:H	2.17	0.42
1:M:42:LEU:N	1:M:42:LEU:CD2	2.72	0.42
1:M:51:ARG:NH2	1:M:68:SER:H	2.17	0.42
1:N:45:ILE:HD11	1:N:77:GLN:HB2	2.01	0.42
1:H:23:THR:HG21	1:O:38:THR:CG2	2.49	0.42
1:P:51:ARG:NH2	1:P:68:SER:H	2.17	0.42
1:D:45:ILE:HD11	1:D:77:GLN:HB2	2.02	0.42
1:F:51:ARG:NH2	1:F:68:SER:H	2.18	0.42
1:F:1:VAL:HG12	1:J:14:ALA:HB2	2.01	0.42
1:J:77:GLN:HB2	1:J:264:ASN:ND2	2.25	0.42
1:K:45:ILE:HD11	1:K:77:GLN:HB2	2.02	0.42
1:L:27:GLY:CA	1:S:294:TRP:CE3	2.92	0.42
1:A:264:ASN:HA	1:A:264:ASN:HD22	1.63	0.42
1:E:77:GLN:HB2	1:E:264:ASN:ND2	2.25	0.42
1:H:45:ILE:HD11	1:H:77:GLN:HB2	2.02	0.42
1:I:19:VAL:CA	1:P:37:VAL:HG21	2.49	0.42
1:S:264:ASN:HA	1:S:264:ASN:HD22	1.63	0.42
1:T:235:ASP:CB	1:T:257:VAL:CB	2.82	0.42
1:D:13:ILE:HG12	1:G:22:TYR:HD1	1.84	0.42
1:H:3:PRO:HB3	1:I:10:LEU:HD12	2.02	0.42
1:H:51:ARG:NH2	1:H:68:SER:H	2.17	0.42
1:I:110:PRO:HA	1:I:254:ILE:CD1	2.47	0.42
1:K:236:ARG:CG	1:K:237:PHE:N	2.81	0.42
1:K:51:ARG:NH2	1:K:68:SER:H	2.17	0.42
1:O:51:ARG:NH2	1:O:68:SER:H	2.17	0.42
1:K:19:VAL:CA	1:R:37:VAL:HG21	2.49	0.42
1:L:23:THR:HG21	1:S:38:THR:CG2	2.50	0.42
1:S:51:ARG:NH2	1:S:68:SER:H	2.17	0.42
1:E:51:ARG:NH2	1:E:68:SER:H	2.17	0.42
1:O:3:PRO:HB3	1:P:10:LEU:CD1	2.49	0.42
1:R:45:ILE:HD11	1:R:77:GLN:HB2	2.02	0.42
1:R:51:ARG:NH2	1:R:68:SER:H	2.17	0.42
1:U:45:ILE:HD11	1:U:77:GLN:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:THR:OG1	1:H:38:THR:CG2	2.68	0.42
1:C:13:ILE:HG12	1:F:22:TYR:HD1	1.84	0.42
1:E:45:ILE:HD11	1:E:77:GLN:HB2	2.02	0.42
1:G:45:ILE:HD11	1:G:77:GLN:HB2	2.02	0.42
1:D:23:THR:HG21	1:K:38:THR:CG2	2.49	0.42
1:N:275:ASN:HA	1:N:276:PRO:HD3	1.90	0.42
1:O:45:ILE:HD11	1:O:77:GLN:HB2	2.02	0.42
1:T:51:ARG:NH2	1:T:68:SER:H	2.17	0.42
1:A:51:ARG:NH2	1:A:68:SER:H	2.17	0.42
1:B:117:TYR:HH	1:I:302:ILE:CD1	1.98	0.42
1:J:240:THR:O	1:J:241:HIS:CG	2.70	0.42
1:K:1:VAL:HG12	1:O:14:ALA:HB2	2.01	0.42
1:E:20:LEU:HD11	1:L:292:SER:HB3	2.02	0.42
1:K:13:ILE:HG12	1:N:22:TYR:HD1	1.84	0.42
1:N:51:ARG:NH2	1:N:68:SER:H	2.17	0.42
1:O:83:LEU:H	1:O:83:LEU:CD2	2.15	0.42
1:R:89:ILE:HG22	1:R:288:PHE:HE2	1.85	0.42
1:T:276:PRO:CB	1:T:300:LEU:CD2	2.88	0.42
1:A:22:TYR:CD1	1:H:83:LEU:HD12	2.54	0.42
1:A:89:ILE:HG22	1:A:288:PHE:HE2	1.85	0.42
1:J:83:LEU:HB2	1:J:84:GLN:H	1.69	0.42
1:P:236:ARG:CG	1:P:237:PHE:N	2.81	0.42
1:P:235:ASP:N	1:P:257:VAL:O	2.40	0.42
1:Q:45:ILE:HD11	1:Q:77:GLN:HB2	2.02	0.42
1:L:19:VAL:CA	1:S:37:VAL:HG21	2.50	0.42
1:B:51:ARG:NH2	1:B:68:SER:H	2.17	0.42
1:C:235:ASP:N	1:C:257:VAL:O	2.40	0.42
1:D:83:LEU:N	1:D:83:LEU:HD23	2.09	0.42
1:I:236:ARG:CG	1:I:237:PHE:N	2.81	0.42
1:I:271:CYS:HA	1:I:272:PRO:HD3	1.86	0.42
1:J:3:PRO:HB3	1:K:10:LEU:HD12	2.02	0.42
1:K:89:ILE:HG22	1:K:288:PHE:HE2	1.85	0.42
1:L:45:ILE:HD11	1:L:77:GLN:HB2	2.02	0.42
1:M:236:ARG:CG	1:M:237:PHE:N	2.81	0.42
1:Q:3:PRO:HB3	1:R:10:LEU:HD12	2.02	0.42
1:S:271:CYS:HA	1:S:272:PRO:HD3	1.86	0.42
1:C:89:ILE:HG22	1:C:288:PHE:HE2	1.85	0.41
1:F:83:LEU:HB2	1:F:84:GLN:H	1.69	0.41
1:H:89:ILE:HG22	1:H:288:PHE:HE2	1.85	0.41
1:I:235:ASP:HB3	1:I:257:VAL:HB	1.90	0.41
1:J:23:THR:HG21	1:Q:38:THR:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:3:PRO:HB3	1:L:10:LEU:HD12	2.02	0.41
1:N:83:LEU:HD23	1:N:83:LEU:N	2.09	0.41
1:O:240:THR:O	1:O:241:HIS:CG	2.70	0.41
1:Q:51:ARG:NH2	1:Q:68:SER:H	2.17	0.41
1:P:13:ILE:HG12	1:S:22:TYR:HD1	1.85	0.41
1:S:236:ARG:CG	1:S:237:PHE:N	2.81	0.41
1:T:89:ILE:HG22	1:T:288:PHE:HE2	1.85	0.41
1:G:235:ASP:N	1:G:257:VAL:O	2.40	0.41
1:M:3:PRO:HB3	1:N:10:LEU:HD12	2.02	0.41
1:Q:13:ILE:HG12	1:T:22:TYR:HD1	1.85	0.41
1:B:271:CYS:HA	1:B:272:PRO:HD3	1.86	0.41
1:F:42:LEU:H	1:F:42:LEU:CD2	2.31	0.41
1:H:240:THR:O	1:H:241:HIS:CG	2.70	0.41
1:D:20:LEU:HD11	1:K:292:SER:HB3	2.01	0.41
1:M:89:ILE:HG22	1:M:288:PHE:HE2	1.85	0.41
1:P:110:PRO:HA	1:P:254:ILE:CD1	2.47	0.41
1:P:3:PRO:HB3	1:Q:10:LEU:CD1	2.50	0.41
1:P:3:PRO:HB3	1:Q:10:LEU:HD12	2.02	0.41
1:U:89:ILE:HG22	1:U:288:PHE:HE2	1.85	0.41
1:U:51:ARG:NH2	1:U:68:SER:H	2.17	0.41
1:C:23:THR:HG21	1:J:38:THR:CG2	2.50	0.41
1:E:240:THR:O	1:E:241:HIS:CG	2.70	0.41
1:L:271:CYS:HA	1:L:272:PRO:HD3	1.86	0.41
1:L:3:PRO:HB3	1:M:10:LEU:CD1	2.50	0.41
1:N:23:THR:HG21	1:U:38:THR:CG2	2.50	0.41
1:H:26:SER:HG	1:O:40:LYS:HD2	1.85	0.41
1:I:23:THR:HG21	1:P:38:THR:CG2	2.50	0.41
1:Q:77:GLN:HB2	1:Q:264:ASN:ND2	2.25	0.41
1:R:239:ASN:C	1:R:240:THR:CG2	2.86	0.41
1:S:45:ILE:HD11	1:S:77:GLN:HB2	2.01	0.41
1:F:235:ASP:N	1:F:257:VAL:O	2.40	0.41
1:J:45:ILE:HD11	1:J:77:GLN:HB2	2.01	0.41
1:O:77:GLN:HB2	1:O:264:ASN:ND2	2.25	0.41
1:B:13:ILE:HG12	1:E:22:TYR:HD1	1.85	0.41
1:B:45:ILE:HD11	1:B:77:GLN:HB2	2.01	0.41
1:C:45:ILE:HD11	1:C:77:GLN:HB2	2.02	0.41
1:G:77:GLN:HB2	1:G:264:ASN:ND2	2.25	0.41
1:I:45:ILE:HD11	1:I:77:GLN:HB2	2.02	0.41
1:J:3:PRO:HB3	1:K:10:LEU:CD1	2.51	0.41
1:Q:235:ASP:N	1:Q:257:VAL:O	2.40	0.41
1:Q:271:CYS:HA	1:Q:272:PRO:HD3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:45:ILE:HD11	1:T:77:GLN:HB2	2.02	0.41
1:A:235:ASP:N	1:A:257:VAL:O	2.40	0.41
1:D:89:ILE:HG22	1:D:288:PHE:HE2	1.85	0.41
1:C:20:LEU:HD11	1:J:292:SER:HB3	2.03	0.41
1:M:45:ILE:HD11	1:M:77:GLN:HB2	2.01	0.41
1:N:236:ARG:CG	1:N:237:PHE:N	2.81	0.41
1:T:240:THR:O	1:T:241:HIS:CG	2.70	0.41
1:B:83:LEU:HB2	1:B:84:GLN:H	1.69	0.41
1:E:271:CYS:HA	1:E:272:PRO:HD3	1.86	0.41
1:F:110:PRO:HA	1:F:254:ILE:CD1	2.47	0.41
1:D:1:VAL:HG12	1:H:14:ALA:HB2	2.02	0.41
1:H:77:GLN:HB2	1:H:264:ASN:ND2	2.25	0.41
1:L:235:ASP:N	1:L:257:VAL:O	2.40	0.41
1:N:264:ASN:HA	1:N:264:ASN:HD22	1.63	0.41
1:O:235:ASP:N	1:O:257:VAL:O	2.40	0.41
1:N:19:VAL:CA	1:U:37:VAL:HG21	2.50	0.41
1:D:83:LEU:CD2	1:D:83:LEU:N	2.78	0.41
1:F:89:ILE:HG22	1:F:288:PHE:HE2	1.85	0.41
1:I:3:PRO:HB3	1:J:10:LEU:HD12	2.03	0.41
1:C:19:VAL:CA	1:J:37:VAL:HG21	2.50	0.41
1:K:19:VAL:HB	1:R:37:VAL:HG23	1.81	0.41
1:D:23:THR:OG1	1:K:38:THR:CG2	2.69	0.41
1:N:3:PRO:HB3	1:O:10:LEU:HD12	2.03	0.41
1:I:20:LEU:HD11	1:P:292:SER:HB3	2.03	0.41
1:Q:3:PRO:HB3	1:R:10:LEU:CD1	2.51	0.41
1:L:242:TYR:O	1:L:243:SER:C	2.59	0.41
1:G:20:LEU:HD11	1:N:292:SER:HB3	2.01	0.41
1:N:77:GLN:HB2	1:N:264:ASN:ND2	2.25	0.41
1:N:3:PRO:HB3	1:O:10:LEU:CD1	2.51	0.41
1:P:45:ILE:HD11	1:P:77:GLN:HB2	2.02	0.41
1:S:276:PRO:CB	1:S:300:LEU:CD2	2.88	0.41
1:T:271:CYS:HA	1:T:272:PRO:HD3	1.86	0.41
1:U:264:ASN:HA	1:U:264:ASN:HD22	1.63	0.41
1:A:231:VAL:HB	1:A:261:SER:HB3	2.04	0.40
1:C:235:ASP:HB3	1:C:257:VAL:HB	1.90	0.40
1:C:242:TYR:O	1:C:243:SER:C	2.60	0.40
1:D:77:GLN:HB2	1:D:264:ASN:ND2	2.25	0.40
1:E:83:LEU:H	1:E:83:LEU:CD2	2.15	0.40
1:F:242:TYR:O	1:F:243:SER:C	2.60	0.40
1:H:3:PRO:HB3	1:I:10:LEU:CD1	2.51	0.40
1:R:231:VAL:HB	1:R:261:SER:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:77:GLN:HB2	1:R:264:ASN:ND2	2.25	0.40
1:A:77:GLN:HB2	1:A:264:ASN:ND2	2.25	0.40
1:I:242:TYR:O	1:I:243:SER:C	2.60	0.40
1:J:242:TYR:O	1:J:243:SER:C	2.60	0.40
1:K:3:PRO:HB3	1:L:10:LEU:CD1	2.51	0.40
1:K:77:GLN:HB2	1:K:264:ASN:ND2	2.25	0.40
1:L:236:ARG:CG	1:L:237:PHE:N	2.81	0.40
1:N:231:VAL:HB	1:N:261:SER:HB3	2.04	0.40
1:N:242:TYR:O	1:N:243:SER:C	2.60	0.40
1:N:89:ILE:HG22	1:N:288:PHE:HE2	1.85	0.40
1:L:20:LEU:HD11	1:S:292:SER:HB3	2.03	0.40
1:T:242:TYR:O	1:T:243:SER:C	2.60	0.40
1:U:275:ASN:HA	1:U:276:PRO:HD3	1.90	0.40
1:U:77:GLN:HB2	1:U:264:ASN:ND2	2.25	0.40
1:D:231:VAL:HB	1:D:261:SER:HB3	2.04	0.40
1:F:45:ILE:HD11	1:F:77:GLN:HB2	2.02	0.40
1:G:231:VAL:HB	1:G:261:SER:HB3	2.03	0.40
1:H:231:VAL:HB	1:H:261:SER:HB3	2.04	0.40
1:J:271:CYS:HA	1:J:272:PRO:HD3	1.86	0.40
1:M:240:THR:O	1:M:241:HIS:CG	2.70	0.40
1:P:239:ASN:O	1:P:240:THR:CB	2.70	0.40
1:P:89:ILE:HG22	1:P:288:PHE:HE2	1.85	0.40
1:J:19:VAL:CA	1:Q:37:VAL:HG21	2.50	0.40
1:C:240:THR:O	1:C:241:HIS:CG	2.70	0.40
1:F:240:THR:O	1:F:241:HIS:CG	2.70	0.40
1:G:275:ASN:HA	1:G:276:PRO:HD3	1.90	0.40
1:I:239:ASN:O	1:I:240:THR:CB	2.70	0.40
1:I:40:LYS:HG2	1:I:41:SER:N	2.37	0.40
1:J:89:ILE:HG22	1:J:288:PHE:HE2	1.85	0.40
1:K:242:TYR:O	1:K:243:SER:C	2.59	0.40
1:K:231:VAL:HB	1:K:261:SER:HB3	2.04	0.40
1:L:240:THR:O	1:L:241:HIS:CG	2.70	0.40
1:G:27:GLY:C	1:N:294:TRP:CZ3	2.81	0.40
1:O:231:VAL:HB	1:O:261:SER:HB3	2.03	0.40
1:J:20:LEU:HD11	1:Q:292:SER:HB3	2.03	0.40
1:S:242:TYR:O	1:S:243:SER:C	2.60	0.40
1:A:40:LYS:HG2	1:A:41:SER:N	2.37	0.40
1:C:40:LYS:HG2	1:C:41:SER:N	2.37	0.40
1:G:242:TYR:O	1:G:243:SER:C	2.60	0.40
1:K:40:LYS:HG2	1:K:41:SER:N	2.37	0.40
1:L:239:ASN:O	1:L:240:THR:CB	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:239:ASN:O	1:M:240:THR:CB	2.70	0.40
1:M:242:TYR:O	1:M:243:SER:C	2.59	0.40
1:F:27:GLY:C	1:M:294:TRP:CZ3	2.80	0.40
1:O:271:CYS:HA	1:O:272:PRO:HD3	1.86	0.40
1:S:239:ASN:O	1:S:240:THR:CB	2.69	0.40
1:S:40:LYS:HG2	1:S:41:SER:N	2.37	0.40
1:U:231:VAL:HB	1:U:261:SER:HB3	2.03	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	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	B	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	C	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	D	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	E	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	F	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	G	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	H	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	I	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	J	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	K	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	L	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	M	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	N	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	O	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	P	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	Q	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	R	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	S	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	T	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
1	U	238/303 (78%)	229 (96%)	6 (2%)	3 (1%)	15	60
All	All	4998/6363 (78%)	4809 (96%)	126 (2%)	63 (1%)	20	60

All (63) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	83	LEU
1	A	240	THR
1	B	83	LEU
1	B	240	THR
1	C	83	LEU
1	C	240	THR
1	D	83	LEU
1	D	240	THR
1	E	83	LEU
1	E	240	THR
1	F	83	LEU
1	F	240	THR
1	G	83	LEU
1	G	240	THR
1	H	83	LEU
1	H	240	THR
1	I	83	LEU
1	I	240	THR
1	J	83	LEU
1	J	240	THR
1	K	83	LEU
1	K	240	THR
1	L	83	LEU
1	L	240	THR
1	M	83	LEU
1	M	240	THR
1	N	83	LEU
1	N	240	THR

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Mol	Chain	Res	Type
1	O	83	LEU
1	O	240	THR
1	P	83	LEU
1	P	240	THR
1	Q	83	LEU
1	Q	240	THR
1	R	83	LEU
1	R	240	THR
1	S	83	LEU
1	S	240	THR
1	T	83	LEU
1	T	240	THR
1	U	83	LEU
1	U	240	THR
1	A	263	SER
1	B	263	SER
1	C	263	SER
1	D	263	SER
1	E	263	SER
1	F	263	SER
1	G	263	SER
1	H	263	SER
1	I	263	SER
1	J	263	SER
1	K	263	SER
1	L	263	SER
1	M	263	SER
1	N	263	SER
1	O	263	SER
1	P	263	SER
1	Q	263	SER
1	R	263	SER
1	S	263	SER
1	T	263	SER
1	U	263	SER

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	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	B	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	C	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	D	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	E	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	F	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	G	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	H	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	I	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	J	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	K	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	L	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	M	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	N	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	O	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	P	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	Q	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	R	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	S	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	T	205/251 (82%)	197 (96%)	8 (4%)	39	74
1	U	205/251 (82%)	197 (96%)	8 (4%)	39	74
All	All	4305/5271 (82%)	4137 (96%)	168 (4%)	43	74

All (168) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	42	LEU
1	A	48	THR
1	A	83	LEU
1	A	104	CYS
1	A	132	VAL
1	A	239	ASN
1	A	240	THR
1	A	257	VAL

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Mol	Chain	Res	Type
1	B	42	LEU
1	B	48	THR
1	B	83	LEU
1	B	104	CYS
1	B	132	VAL
1	B	239	ASN
1	B	240	THR
1	B	257	VAL
1	C	42	LEU
1	C	48	THR
1	C	83	LEU
1	C	104	CYS
1	C	132	VAL
1	C	239	ASN
1	C	240	THR
1	C	257	VAL
1	D	42	LEU
1	D	48	THR
1	D	83	LEU
1	D	104	CYS
1	D	132	VAL
1	D	239	ASN
1	D	240	THR
1	D	257	VAL
1	E	42	LEU
1	E	48	THR
1	E	83	LEU
1	E	104	CYS
1	E	132	VAL
1	E	239	ASN
1	E	240	THR
1	E	257	VAL
1	F	42	LEU
1	F	48	THR
1	F	83	LEU
1	F	104	CYS
1	F	132	VAL
1	F	239	ASN
1	F	240	THR
1	F	257	VAL
1	G	42	LEU
1	G	48	THR

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Mol	Chain	Res	Type
1	G	83	LEU
1	G	104	CYS
1	G	132	VAL
1	G	239	ASN
1	G	240	THR
1	G	257	VAL
1	H	42	LEU
1	H	48	THR
1	H	83	LEU
1	H	104	CYS
1	H	132	VAL
1	H	239	ASN
1	H	240	THR
1	H	257	VAL
1	I	42	LEU
1	I	48	THR
1	I	83	LEU
1	I	104	CYS
1	I	132	VAL
1	I	239	ASN
1	I	240	THR
1	I	257	VAL
1	J	42	LEU
1	J	48	THR
1	J	83	LEU
1	J	104	CYS
1	J	132	VAL
1	J	239	ASN
1	J	240	THR
1	J	257	VAL
1	K	42	LEU
1	K	48	THR
1	K	83	LEU
1	K	104	CYS
1	K	132	VAL
1	K	239	ASN
1	K	240	THR
1	K	257	VAL
1	L	42	LEU
1	L	48	THR
1	L	83	LEU
1	L	104	CYS

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Mol	Chain	Res	Type
1	L	132	VAL
1	L	239	ASN
1	L	240	THR
1	L	257	VAL
1	M	42	LEU
1	M	48	THR
1	M	83	LEU
1	M	104	CYS
1	M	132	VAL
1	M	239	ASN
1	M	240	THR
1	M	257	VAL
1	N	42	LEU
1	N	48	THR
1	N	83	LEU
1	N	104	CYS
1	N	132	VAL
1	N	239	ASN
1	N	240	THR
1	N	257	VAL
1	O	42	LEU
1	O	48	THR
1	O	83	LEU
1	O	104	CYS
1	O	132	VAL
1	O	239	ASN
1	O	240	THR
1	O	257	VAL
1	P	42	LEU
1	P	48	THR
1	P	83	LEU
1	P	104	CYS
1	P	132	VAL
1	P	239	ASN
1	P	240	THR
1	P	257	VAL
1	Q	42	LEU
1	Q	48	THR
1	Q	83	LEU
1	Q	104	CYS
1	Q	132	VAL
1	Q	239	ASN

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Mol	Chain	Res	Type
1	Q	240	THR
1	Q	257	VAL
1	R	42	LEU
1	R	48	THR
1	R	83	LEU
1	R	104	CYS
1	R	132	VAL
1	R	239	ASN
1	R	240	THR
1	R	257	VAL
1	S	42	LEU
1	S	48	THR
1	S	83	LEU
1	S	104	CYS
1	S	132	VAL
1	S	239	ASN
1	S	240	THR
1	S	257	VAL
1	T	42	LEU
1	T	48	THR
1	T	83	LEU
1	T	104	CYS
1	T	132	VAL
1	T	239	ASN
1	T	240	THR
1	T	257	VAL
1	U	42	LEU
1	U	48	THR
1	U	83	LEU
1	U	104	CYS
1	U	132	VAL
1	U	239	ASN
1	U	240	THR
1	U	257	VAL

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (77) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	46	GLN
1	A	77	GLN
1	A	264	ASN
1	B	46	GLN

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Mol	Chain	Res	Type
1	B	77	GLN
1	B	264	ASN
1	C	46	GLN
1	C	77	GLN
1	C	264	ASN
1	D	46	GLN
1	D	77	GLN
1	D	264	ASN
1	E	46	GLN
1	E	77	GLN
1	E	264	ASN
1	F	46	GLN
1	F	77	GLN
1	F	264	ASN
1	G	46	GLN
1	G	77	GLN
1	G	264	ASN
1	H	46	GLN
1	H	77	GLN
1	H	219	ASN
1	H	264	ASN
1	I	46	GLN
1	I	77	GLN
1	I	219	ASN
1	I	264	ASN
1	J	46	GLN
1	J	77	GLN
1	J	219	ASN
1	J	264	ASN
1	K	46	GLN
1	K	77	GLN
1	K	219	ASN
1	K	264	ASN
1	L	46	GLN
1	L	77	GLN
1	L	219	ASN
1	L	264	ASN
1	M	46	GLN
1	M	77	GLN
1	M	219	ASN
1	M	264	ASN
1	N	46	GLN

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Mol	Chain	Res	Type
1	N	77	GLN
1	N	219	ASN
1	N	264	ASN
1	O	46	GLN
1	O	77	GLN
1	O	219	ASN
1	O	264	ASN
1	P	46	GLN
1	P	77	GLN
1	P	219	ASN
1	P	264	ASN
1	Q	46	GLN
1	Q	77	GLN
1	Q	219	ASN
1	Q	264	ASN
1	R	46	GLN
1	R	77	GLN
1	R	219	ASN
1	R	264	ASN
1	S	46	GLN
1	S	77	GLN
1	S	219	ASN
1	S	264	ASN
1	T	46	GLN
1	T	77	GLN
1	T	219	ASN
1	T	264	ASN
1	U	46	GLN
1	U	77	GLN
1	U	219	ASN
1	U	264	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.