



wwPDB EM Map/Model Validation Report ⓘ

Oct 25, 2016 – 04:51 PM EDT

PDB ID : 5LFB
EMDB ID: : EMD-4046
Title : Structure of the bacterial sex F pilus (12.5 Angstrom rise)
Authors : Costa, T.R.D.; Ilangovan, I.; Ukleja, M.; Redzej, A.; Santini, J.M.; Smith, T.K.; Egelman, E.H.; Waksman, G.
Deposited on : 2016-06-30
Resolution : 5.00 Å(reported)

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : 1.7.1 (RC1), CSD as537be (2016)
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027939

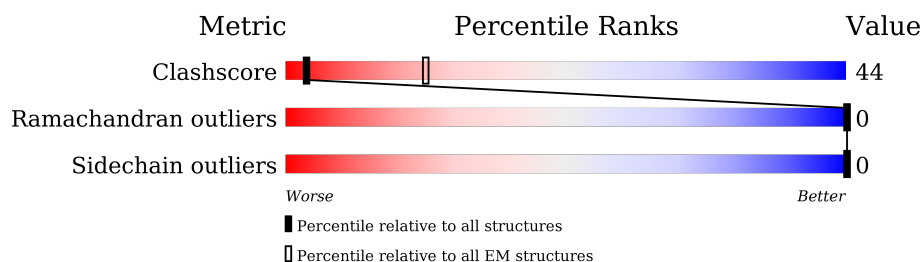
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 5.00 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.






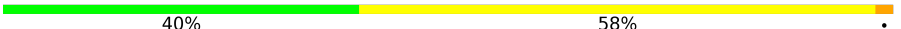
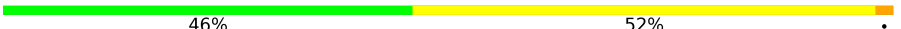

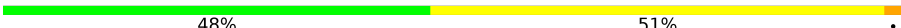


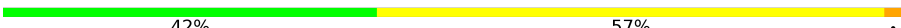
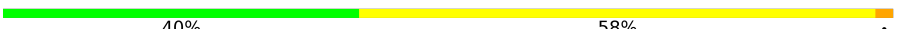
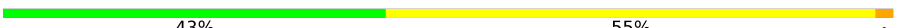




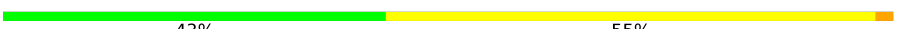
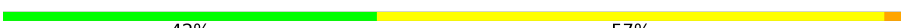

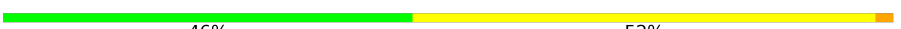


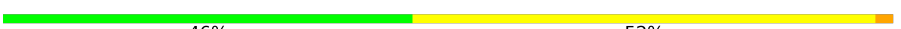


Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	1A	65	48% 51% .
1	1B	65	45% 54% .
1	1C	65	35% 63% .
1	1D	65	42% 57% .
1	1E	65	40% 58% .
1	1F	65	40% 58% .
1	1G	65	38% 60% .
1	1H	65	42% 57% .
1	1I	65	45% 54% .


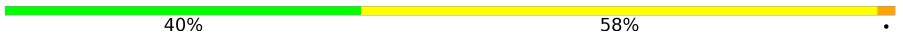
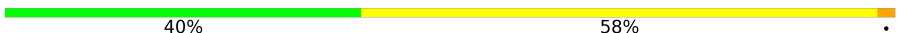


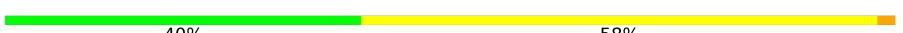
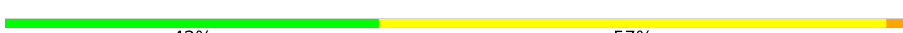




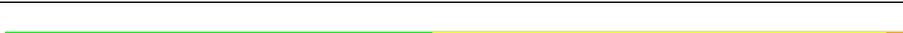













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Mol	Chain	Length	Quality of chain
1	1J	65	 40% 58%
1	1K	65	 45% 54%
1	1L	65	 38% 60%
1	1M	65	 40% 58%
1	1N	65	 46% 52%
1	1O	65	 49% 49%
1	2A	65	 48% 51%
1	2B	65	 45% 54%
1	2C	65	 34% 65%
1	2D	65	 42% 57%
1	2E	65	 40% 58%
1	2F	65	 43% 55%
1	2G	65	 40% 58%
1	2H	65	 42% 57%
1	2I	65	 43% 55%
1	2J	65	 42% 57%
1	2K	65	 43% 55%
1	2L	65	 42% 57%
1	2M	65	 46% 52%
1	2N	65	 46% 52%
1	2O	65	 51% 48%
1	3A	65	 51% 48%
1	3B	65	 46% 52%
1	3C	65	 37% 62%
1	3D	65	 43% 55%




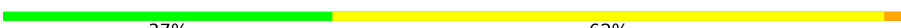
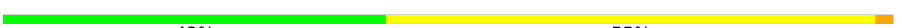
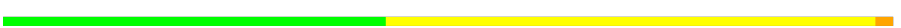






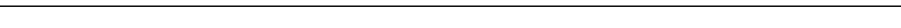



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Mol	Chain	Length	Quality of chain	
1	3E	65		.
1	3F	65		.
1	3G	65		.
1	3H	65		.
1	3I	65		.
1	3J	65		.
1	3K	65		.
1	3L	65		.
1	3M	65		.
1	3N	65		.
1	3O	65		.
1	4A	65		.
1	4B	65		.
1	4C	65		.
1	4D	65		.
1	4E	65		.
1	4F	65		.
1	4G	65		.
1	4H	65		.
1	4I	65		.
1	4J	65		.
1	4K	65		.
1	4L	65		.
1	4M	65		.
1	4N	65		.

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Mol	Chain	Length	Quality of chain
1	4O	65	 51% 48% .
1	5A	65	 48% 51% .
1	5B	65	 42% 57% .
1	5C	65	 37% 62% .
1	5D	65	 43% 55% .
1	5E	65	 43% 55% .
1	5F	65	 43% 55% .
1	5G	65	 42% 57% .
1	5H	65	 43% 55% .
1	5I	65	 43% 55% .
1	5J	65	 42% 57% .
1	5K	65	 46% 52% .
1	5L	65	 43% 55% .
1	5M	65	 48% 51% .
1	5N	65	 48% 51% .
1	5O	65	 46% 52% .

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 36600 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 Pilin.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1A	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1B	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1C	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1D	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1E	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1F	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1G	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1H	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1I	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1J	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1K	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1L	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1M	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1N	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	1O	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	2A	65	Total	C	N	O	S	0	0
			476	314	74	83	5		
1	2B	65	Total	C	N	O	S	0	0
			476	314	74	83	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	2C	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2D	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2E	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2F	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2G	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2H	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2I	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2J	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2K	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2L	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2M	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2N	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	2O	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3A	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3B	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3C	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3D	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3E	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3F	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3G	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3H	65	Total 476	C 314	N 74	O 83	S 5	0	0

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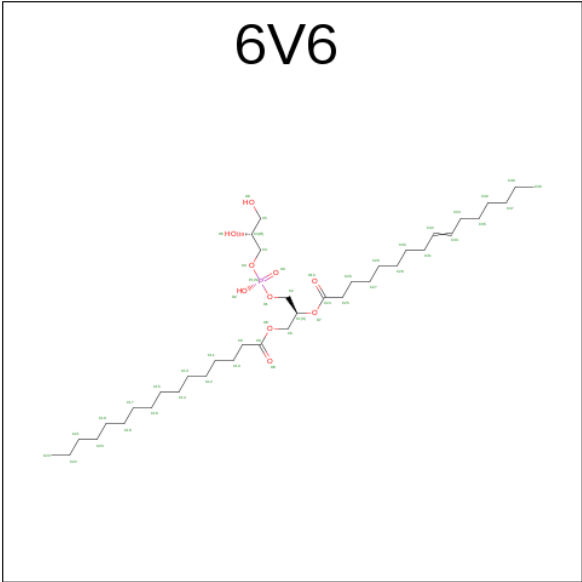
Mol	Chain	Residues	Atoms					AltConf	Trace
1	3I	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3J	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3K	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3L	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3M	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3N	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	3O	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4A	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4B	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4C	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4D	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4E	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4F	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4G	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4H	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4I	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4J	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4K	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4L	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4M	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	4N	65	Total 476	C 314	N 74	O 83	S 5	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	4O	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5A	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5B	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5C	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5D	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5E	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5F	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5G	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5H	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5I	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5J	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5K	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5L	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5M	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5N	65	Total 476	C 314	N 74	O 83	S 5	0	0
1	5O	65	Total 476	C 314	N 74	O 83	S 5	0	0

- Molecule 2 is [(2 {S})-3-[(2 {R})-2,3-bis(oxidanyl)propoxy]-oxidanyl-phosphoryl]oxy-2-hexadec-9-enoyloxy-propyl] hexadecanoate (three-letter code: 6V6) (formula: C₃₈H₇₃O₁₀P).



Mol	Chain	Residues	Atoms				AltConf
2	1A	1	Total	C	O	P	0
			12	5	6	1	
2	1B	1	Total	C	O	P	0
			12	5	6	1	
2	1C	1	Total	C	O	P	0
			12	5	6	1	
2	1D	1	Total	C	O	P	0
			12	5	6	1	
2	1E	1	Total	C	O	P	0
			12	5	6	1	
2	1F	1	Total	C	O	P	0
			12	5	6	1	
2	1G	1	Total	C	O	P	0
			12	5	6	1	
2	1H	1	Total	C	O	P	0
			12	5	6	1	
2	1I	1	Total	C	O	P	0
			12	5	6	1	
2	1J	1	Total	C	O	P	0
			12	5	6	1	
2	1K	1	Total	C	O	P	0
			12	5	6	1	
2	1L	1	Total	C	O	P	0
			12	5	6	1	
2	1M	1	Total	C	O	P	0
			12	5	6	1	
2	1N	1	Total	C	O	P	0
			12	5	6	1	

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Mol	Chain	Residues	Atoms				AltConf
2	1O	1	Total 12	C 5	O 6	P 1	0
2	2A	1	Total 12	C 5	O 6	P 1	0
2	2B	1	Total 12	C 5	O 6	P 1	0
2	2C	1	Total 12	C 5	O 6	P 1	0
2	2D	1	Total 12	C 5	O 6	P 1	0
2	2E	1	Total 12	C 5	O 6	P 1	0
2	2F	1	Total 12	C 5	O 6	P 1	0
2	2G	1	Total 12	C 5	O 6	P 1	0
2	2H	1	Total 12	C 5	O 6	P 1	0
2	2I	1	Total 12	C 5	O 6	P 1	0
2	2J	1	Total 12	C 5	O 6	P 1	0
2	2K	1	Total 12	C 5	O 6	P 1	0
2	2L	1	Total 12	C 5	O 6	P 1	0
2	2M	1	Total 12	C 5	O 6	P 1	0
2	2N	1	Total 12	C 5	O 6	P 1	0
2	2O	1	Total 12	C 5	O 6	P 1	0
2	3A	1	Total 12	C 5	O 6	P 1	0
2	3B	1	Total 12	C 5	O 6	P 1	0
2	3C	1	Total 12	C 5	O 6	P 1	0
2	3D	1	Total 12	C 5	O 6	P 1	0
2	3E	1	Total 12	C 5	O 6	P 1	0

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Mol	Chain	Residues	Atoms				AltConf
2	3F	1	Total	C	O	P	0
			12	5	6	1	
2	3G	1	Total	C	O	P	0
			12	5	6	1	
2	3H	1	Total	C	O	P	0
			12	5	6	1	
2	3I	1	Total	C	O	P	0
			12	5	6	1	
2	3J	1	Total	C	O	P	0
			12	5	6	1	
2	3K	1	Total	C	O	P	0
			12	5	6	1	
2	3L	1	Total	C	O	P	0
			12	5	6	1	
2	3M	1	Total	C	O	P	0
			12	5	6	1	
2	3N	1	Total	C	O	P	0
			12	5	6	1	
2	3O	1	Total	C	O	P	0
			12	5	6	1	
2	4A	1	Total	C	O	P	0
			12	5	6	1	
2	4B	1	Total	C	O	P	0
			12	5	6	1	
2	4C	1	Total	C	O	P	0
			12	5	6	1	
2	4D	1	Total	C	O	P	0
			12	5	6	1	
2	4E	1	Total	C	O	P	0
			12	5	6	1	
2	4F	1	Total	C	O	P	0
			12	5	6	1	
2	4G	1	Total	C	O	P	0
			12	5	6	1	
2	4H	1	Total	C	O	P	0
			12	5	6	1	
2	4I	1	Total	C	O	P	0
			12	5	6	1	
2	4J	1	Total	C	O	P	0
			12	5	6	1	
2	4K	1	Total	C	O	P	0
			12	5	6	1	

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Mol	Chain	Residues	Atoms				AltConf
2	4L	1	Total 12	C 5	O 6	P 1	0
2	4M	1	Total 12	C 5	O 6	P 1	0
2	4N	1	Total 12	C 5	O 6	P 1	0
2	4O	1	Total 12	C 5	O 6	P 1	0
2	5A	1	Total 12	C 5	O 6	P 1	0
2	5B	1	Total 12	C 5	O 6	P 1	0
2	5C	1	Total 12	C 5	O 6	P 1	0
2	5D	1	Total 12	C 5	O 6	P 1	0
2	5E	1	Total 12	C 5	O 6	P 1	0
2	5F	1	Total 12	C 5	O 6	P 1	0
2	5G	1	Total 12	C 5	O 6	P 1	0
2	5H	1	Total 12	C 5	O 6	P 1	0
2	5I	1	Total 12	C 5	O 6	P 1	0
2	5J	1	Total 12	C 5	O 6	P 1	0
2	5K	1	Total 12	C 5	O 6	P 1	0
2	5L	1	Total 12	C 5	O 6	P 1	0
2	5M	1	Total 12	C 5	O 6	P 1	0
2	5N	1	Total 12	C 5	O 6	P 1	0
2	5O	1	Total 12	C 5	O 6	P 1	0

3 Residue-property plots

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: Pilin

Chain 1A: 



- Molecule 1: Pilin

Chain 1B: 



- Molecule 1: Pilin

Chain 1C: 



- Molecule 1: Pilin

Chain 1D: 



- Molecule 1: Pilin

Chain 1E: 

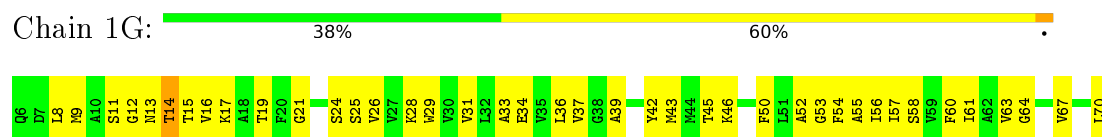


- Molecule 1: Pilin

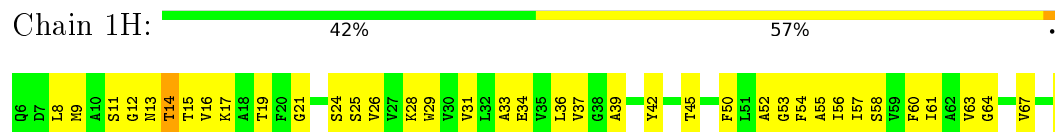
Chain 1F: 



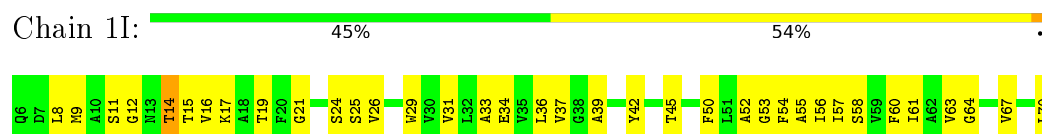
• Molecule 1: Pilin



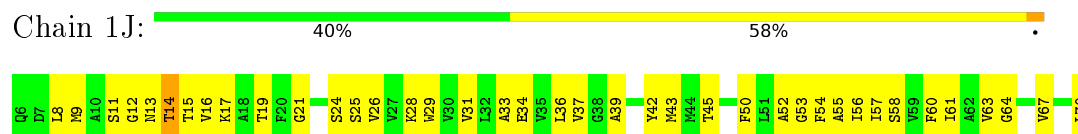
• Molecule 1: Pilin



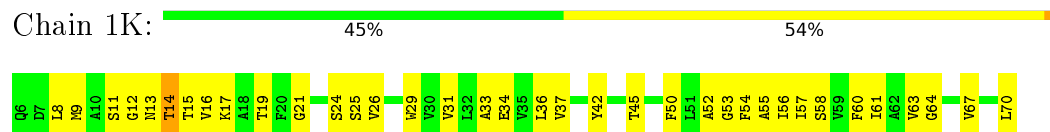
• Molecule 1: Pilin



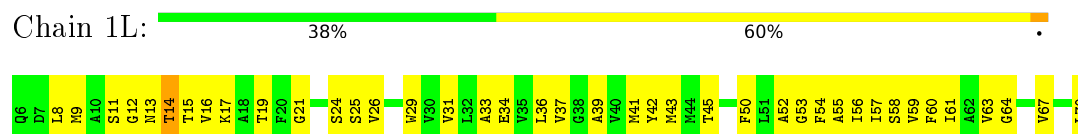
• Molecule 1: Pilin



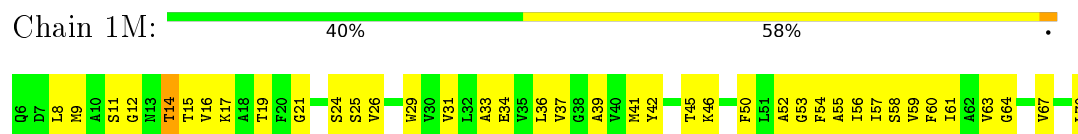
• Molecule 1: Pilin



• Molecule 1: Pilin



• Molecule 1: Pilin



• Molecule 1: Pilin





- Molecule 1: Pilin

Chain 1O:



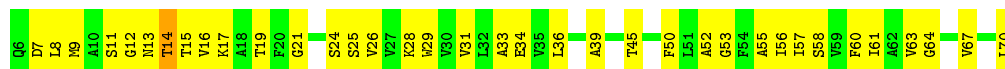
- Molecule 1: Pilin

Chain 2A:



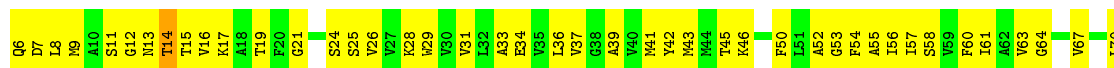
- Molecule 1: Pilin

Chain 2B:



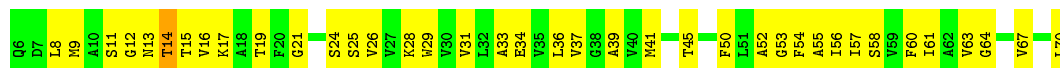
- Molecule 1: Pilin

Chain 2C:



- Molecule 1: Pilin

Chain 2D:



- Molecule 1: Pilin

Chain 2E:

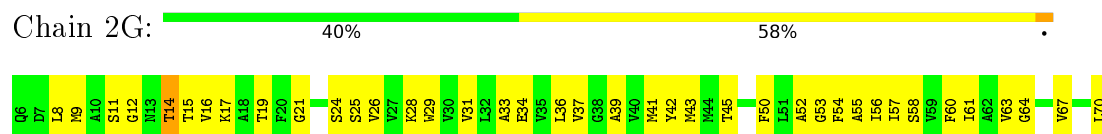


- Molecule 1: Pilin

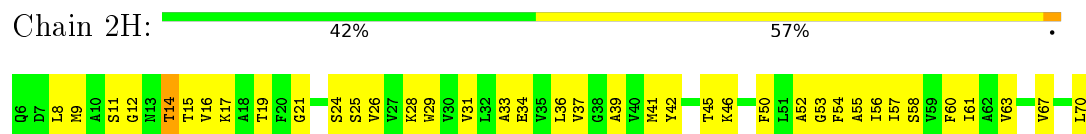
Chain 2F:



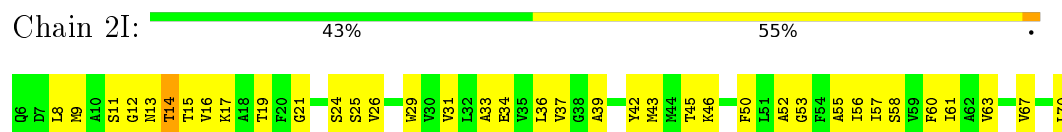
- Molecule 1: Pilin



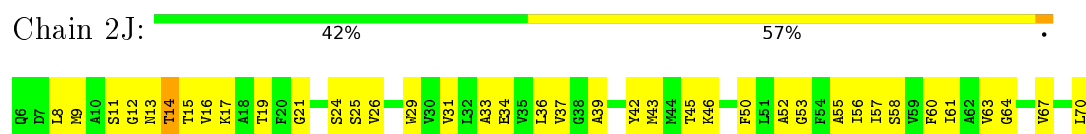
- Molecule 1: Pilin



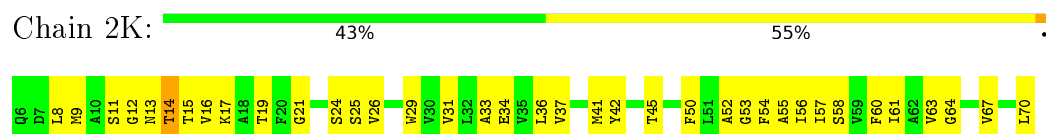
- Molecule 1: Pilin



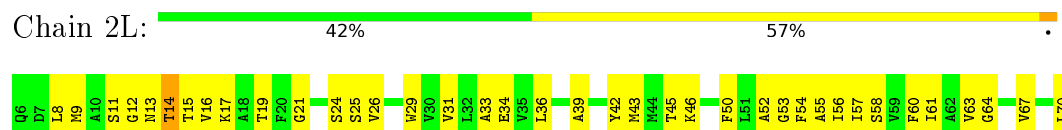
- Molecule 1: Pilin



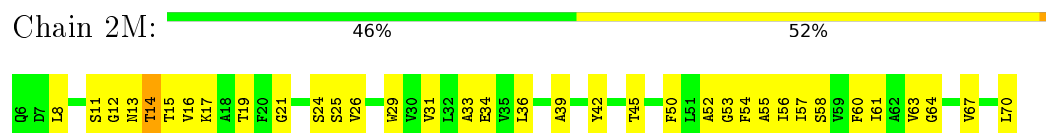
- Molecule 1: Pilin



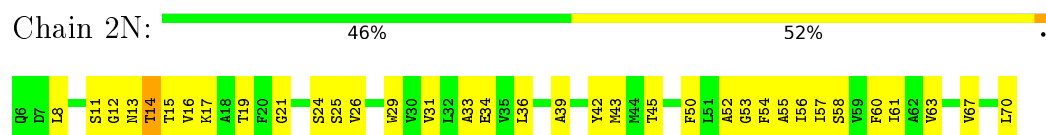
- Molecule 1: Pilin



- Molecule 1: Pilin



- Molecule 1: Pilin



• Molecule 1: Pilin

Chain 2O:  51% 48%

• Molecule 1: Pilin

Chain 3A:  51% 48%

• Molecule 1: Pilin

Chain 3B:  46% 52%

• Molecule 1: Pilin

Chain 3C:  37% 62%

• Molecule 1: Pilin

Chain 3D:  43% 55%

• Molecule 1: Pilin

Chain 3E:  40% 58%

• Molecule 1: Pilin

Chain 3F:  40% 58%

• Molecule 1: Pilin

Chain 3G:  40% 58%



Chain 3O:  .



- Molecule 1: Pilin

Chain 4A:  .



- Molecule 1: Pilin

Chain 4B:  .



- Molecule 1: Pilin

Chain 4C:  .



- Molecule 1: Pilin

Chain 4D:  .



- Molecule 1: Pilin

Chain 4E:  .



- Molecule 1: Pilin

Chain 4F:  .

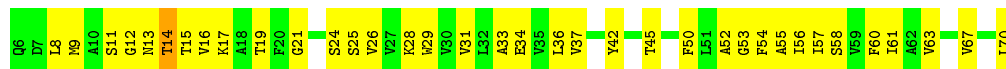


- Molecule 1: Pilin

Chain 4G:  .



• Molecule 1: Pilin

Chain 4H:  45% 54%

• Molecule 1: Pilin

Chain 4I:  43% 55%

• Molecule 1: Pilin

Chain 4J:  38% 60%

• Molecule 1: Pilin

Chain 4K:  42% 57%

• Molecule 1: Pilin

Chain 4L:  42% 57%

• Molecule 1: Pilin

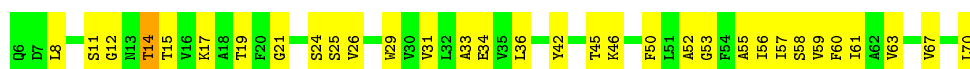
Chain 4M:  46% 52%

• Molecule 1: Pilin

Chain 4N:  45% 54%

• Molecule 1: Pilin

Chain 4O:  51% 48%



- Molecule 1: Pilin

Chain 5A: .



- Molecule 1: Pilin

Chain 5B: .



- Molecule 1: Pilin

Chain 5C: .



- Molecule 1: Pilin

Chain 5D: .



- Molecule 1: Pilin

Chain 5E: .



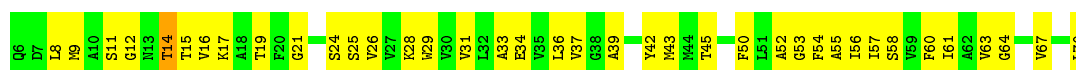
- Molecule 1: Pilin

Chain 5F: .

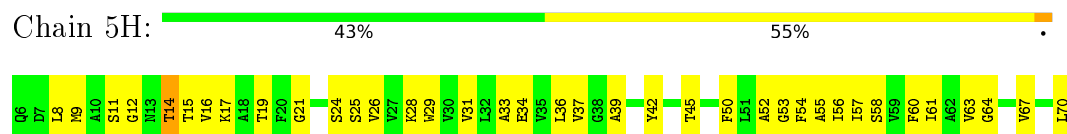


- Molecule 1: Pilin

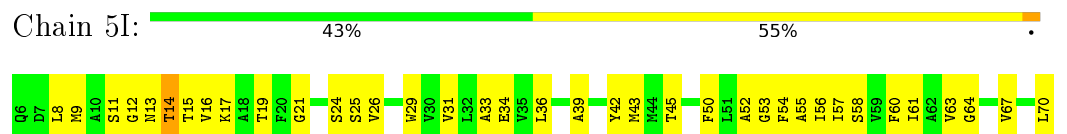
Chain 5G: .



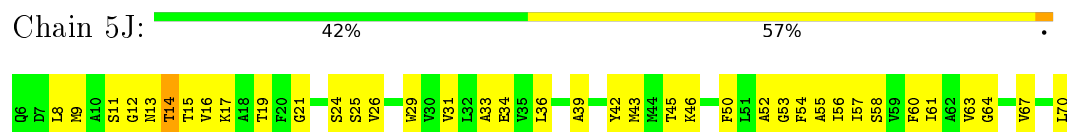
- Molecule 1: Pilin



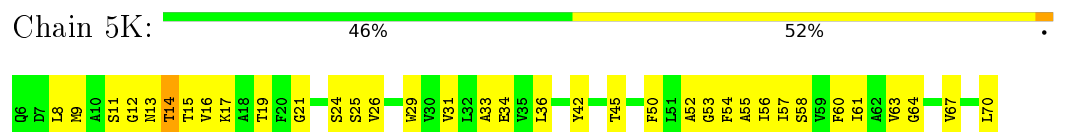
- Molecule 1: Pilin



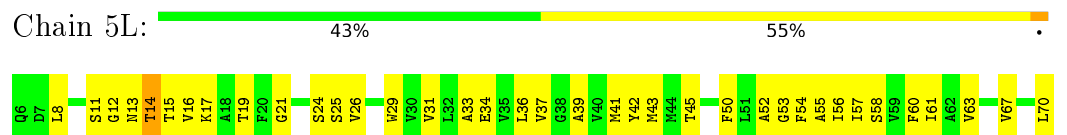
- Molecule 1: Pilin



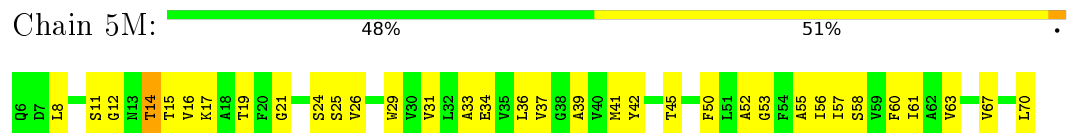
- Molecule 1: Pilin



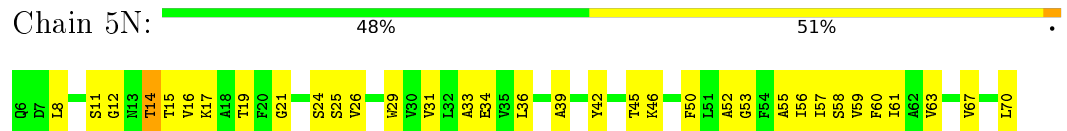
- Molecule 1: Pilin



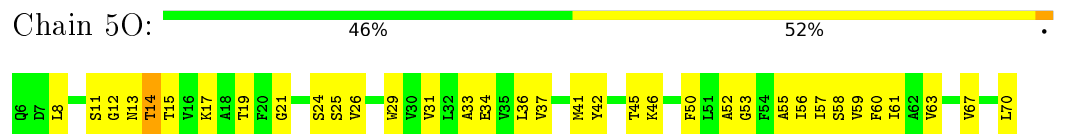
- Molecule 1: Pilin



- Molecule 1: Pilin



- Molecule 1: Pilin



4 Experimental information

Property	Value	Source
Reconstruction method	HELICAL	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of segments used	16426	Depositor
Resolution determination method	OTHER	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	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

Bond lengths and bond angles in the following residue types are not validated in this section: 6V6

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	1A	0.51	0/482	0.63	0/651
1	1B	0.51	0/482	0.63	0/651
1	1C	0.51	0/482	0.63	0/651
1	1D	0.51	0/482	0.63	0/651
1	1E	0.51	0/482	0.63	0/651
1	1F	0.51	0/482	0.63	0/651
1	1G	0.51	0/482	0.63	0/651
1	1H	0.51	0/482	0.63	0/651
1	1I	0.51	0/482	0.63	0/651
1	1J	0.51	0/482	0.63	0/651
1	1K	0.51	0/482	0.63	0/651
1	1L	0.51	0/482	0.63	0/651
1	1M	0.51	0/482	0.63	0/651
1	1N	0.51	0/482	0.63	0/651
1	1O	0.51	0/482	0.63	0/651
1	2A	0.51	0/482	0.63	0/651
1	2B	0.51	0/482	0.63	0/651
1	2C	0.51	0/482	0.63	0/651
1	2D	0.51	0/482	0.63	0/651
1	2E	0.51	0/482	0.63	0/651
1	2F	0.51	0/482	0.63	0/651
1	2G	0.51	0/482	0.63	0/651
1	2H	0.51	0/482	0.63	0/651
1	2I	0.51	0/482	0.63	0/651
1	2J	0.51	0/482	0.63	0/651
1	2K	0.51	0/482	0.63	0/651
1	2L	0.51	0/482	0.63	0/651
1	2M	0.51	0/482	0.63	0/651
1	2N	0.51	0/482	0.63	0/651
1	2O	0.51	0/482	0.63	0/651
1	3A	0.51	0/482	0.63	0/651
1	3B	0.51	0/482	0.63	0/651

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
1	3C	0.51	0/482	0.63	0/651
1	3D	0.51	0/482	0.63	0/651
1	3E	0.51	0/482	0.63	0/651
1	3F	0.51	0/482	0.63	0/651
1	3G	0.51	0/482	0.63	0/651
1	3H	0.51	0/482	0.63	0/651
1	3I	0.51	0/482	0.63	0/651
1	3J	0.51	0/482	0.63	0/651
1	3K	0.51	0/482	0.63	0/651
1	3L	0.51	0/482	0.63	0/651
1	3M	0.51	0/482	0.63	0/651
1	3N	0.51	0/482	0.63	0/651
1	3O	0.51	0/482	0.63	0/651
1	4A	0.51	0/482	0.63	0/651
1	4B	0.51	0/482	0.63	0/651
1	4C	0.51	0/482	0.63	0/651
1	4D	0.51	0/482	0.63	0/651
1	4E	0.51	0/482	0.63	0/651
1	4F	0.51	0/482	0.63	0/651
1	4G	0.51	0/482	0.63	0/651
1	4H	0.51	0/482	0.63	0/651
1	4I	0.51	0/482	0.63	0/651
1	4J	0.51	0/482	0.63	0/651
1	4K	0.51	0/482	0.63	0/651
1	4L	0.51	0/482	0.63	0/651
1	4M	0.51	0/482	0.63	0/651
1	4N	0.51	0/482	0.63	0/651
1	4O	0.51	0/482	0.63	0/651
1	5A	0.51	0/482	0.63	0/651
1	5B	0.51	0/482	0.63	0/651
1	5C	0.51	0/482	0.63	0/651
1	5D	0.51	0/482	0.63	0/651
1	5E	0.51	0/482	0.63	0/651
1	5F	0.51	0/482	0.63	0/651
1	5G	0.51	0/482	0.63	0/651
1	5H	0.51	0/482	0.63	0/651
1	5I	0.51	0/482	0.63	0/651
1	5J	0.51	0/482	0.63	0/651
1	5K	0.51	0/482	0.63	0/651
1	5L	0.51	0/482	0.63	0/651
1	5M	0.51	0/482	0.63	0/651
1	5N	0.51	0/482	0.63	0/651
1	5O	0.51	0/482	0.63	0/651

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
All	All	0.51	0/36150	0.63	0/48825

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1A	0	1
1	1B	0	1
1	1C	0	1
1	1D	0	1
1	1E	0	1
1	1F	0	1
1	1G	0	1
1	1H	0	1
1	1I	0	1
1	1J	0	1
1	1K	0	1
1	1L	0	1
1	1M	0	1
1	1N	0	1
1	1O	0	1
1	2A	0	1
1	2B	0	1
1	2C	0	1
1	2D	0	1
1	2E	0	1
1	2F	0	1
1	2G	0	1
1	2H	0	1
1	2I	0	1
1	2J	0	1
1	2K	0	1
1	2L	0	1
1	2M	0	1
1	2N	0	1
1	2O	0	1
1	3A	0	1
1	3B	0	1
1	3C	0	1
1	3D	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	3E	0	1
1	3F	0	1
1	3G	0	1
1	3H	0	1
1	3I	0	1
1	3J	0	1
1	3K	0	1
1	3L	0	1
1	3M	0	1
1	3N	0	1
1	3O	0	1
1	4A	0	1
1	4B	0	1
1	4C	0	1
1	4D	0	1
1	4E	0	1
1	4F	0	1
1	4G	0	1
1	4H	0	1
1	4I	0	1
1	4J	0	1
1	4K	0	1
1	4L	0	1
1	4M	0	1
1	4N	0	1
1	4O	0	1
1	5A	0	1
1	5B	0	1
1	5C	0	1
1	5D	0	1
1	5E	0	1
1	5F	0	1
1	5G	0	1
1	5H	0	1
1	5I	0	1
1	5J	0	1
1	5K	0	1
1	5L	0	1
1	5M	0	1
1	5N	0	1
1	5O	0	1
All	All	0	75

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (75) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1A	14	THR	Peptide
1	1B	14	THR	Peptide
1	1C	14	THR	Peptide
1	1D	14	THR	Peptide
1	1E	14	THR	Peptide
1	1F	14	THR	Peptide
1	1G	14	THR	Peptide
1	1H	14	THR	Peptide
1	1I	14	THR	Peptide
1	1J	14	THR	Peptide
1	1K	14	THR	Peptide
1	1L	14	THR	Peptide
1	1M	14	THR	Peptide
1	1N	14	THR	Peptide
1	1O	14	THR	Peptide
1	2A	14	THR	Peptide
1	2B	14	THR	Peptide
1	2C	14	THR	Peptide
1	2D	14	THR	Peptide
1	2E	14	THR	Peptide
1	2F	14	THR	Peptide
1	2G	14	THR	Peptide
1	2H	14	THR	Peptide
1	2I	14	THR	Peptide
1	2J	14	THR	Peptide
1	2K	14	THR	Peptide
1	2L	14	THR	Peptide
1	2M	14	THR	Peptide
1	2N	14	THR	Peptide
1	2O	14	THR	Peptide
1	3A	14	THR	Peptide
1	3B	14	THR	Peptide
1	3C	14	THR	Peptide
1	3D	14	THR	Peptide
1	3E	14	THR	Peptide
1	3F	14	THR	Peptide
1	3G	14	THR	Peptide

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Mol	Chain	Res	Type	Group
1	3H	14	THR	Peptide
1	3I	14	THR	Peptide
1	3J	14	THR	Peptide
1	3K	14	THR	Peptide
1	3L	14	THR	Peptide
1	3M	14	THR	Peptide
1	3N	14	THR	Peptide
1	3O	14	THR	Peptide
1	4A	14	THR	Peptide
1	4B	14	THR	Peptide
1	4C	14	THR	Peptide
1	4D	14	THR	Peptide
1	4E	14	THR	Peptide
1	4F	14	THR	Peptide
1	4G	14	THR	Peptide
1	4H	14	THR	Peptide
1	4I	14	THR	Peptide
1	4J	14	THR	Peptide
1	4K	14	THR	Peptide
1	4L	14	THR	Peptide
1	4M	14	THR	Peptide
1	4N	14	THR	Peptide
1	4O	14	THR	Peptide
1	5A	14	THR	Peptide
1	5B	14	THR	Peptide
1	5C	14	THR	Peptide
1	5D	14	THR	Peptide
1	5E	14	THR	Peptide
1	5F	14	THR	Peptide
1	5G	14	THR	Peptide
1	5H	14	THR	Peptide
1	5I	14	THR	Peptide
1	5J	14	THR	Peptide
1	5K	14	THR	Peptide
1	5L	14	THR	Peptide
1	5M	14	THR	Peptide
1	5N	14	THR	Peptide
1	5O	14	THR	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1A	476	0	509	48	0
1	1B	476	0	509	60	0
1	1C	476	0	507	72	0
1	1D	476	0	509	70	0
1	1E	476	0	509	59	0
1	1F	476	0	509	70	0
1	1G	476	0	509	62	0
1	1H	476	0	509	63	0
1	1I	476	0	507	46	0
1	1J	476	0	507	56	0
1	1K	476	0	507	79	0
1	1L	476	0	509	83	0
1	1M	476	0	507	62	0
1	1N	476	0	509	44	0
1	1O	476	0	509	33	0
1	2A	476	0	509	46	0
1	2B	476	0	509	58	0
1	2C	476	0	509	79	0
1	2D	476	0	509	70	0
1	2E	476	0	509	66	0
1	2F	476	0	507	59	0
1	2G	476	0	507	62	0
1	2H	476	0	507	65	0
1	2I	476	0	507	69	0
1	2J	476	0	507	64	0
1	2K	476	0	507	53	0
1	2L	476	0	509	70	0
1	2M	476	0	509	63	0
1	2N	476	0	509	58	0
1	2O	476	0	509	41	0
1	3A	476	0	509	42	0
1	3B	476	0	509	56	0
1	3C	476	0	509	75	0
1	3D	476	0	509	67	0
1	3E	476	0	509	68	0
1	3F	476	0	507	61	0
1	3G	476	0	507	62	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	3H	476	0	507	61	0
1	3I	476	0	507	58	0
1	3J	476	0	507	54	0
1	3K	476	0	507	60	0
1	3L	476	0	509	66	0
1	3M	476	0	509	53	0
1	3N	476	0	509	63	0
1	3O	476	0	509	48	0
1	4A	476	0	509	44	0
1	4B	476	0	509	57	0
1	4C	476	0	509	77	0
1	4D	476	0	509	64	0
1	4E	476	0	509	70	0
1	4F	476	0	507	63	0
1	4G	476	0	507	60	0
1	4H	476	0	507	59	0
1	4I	476	0	507	61	0
1	4J	476	0	507	53	0
1	4K	476	0	507	59	0
1	4L	476	0	509	64	0
1	4M	476	0	509	52	0
1	4N	476	0	509	62	0
1	4O	476	0	509	49	0
1	5A	476	0	509	47	0
1	5B	476	0	509	61	0
1	5C	476	0	508	67	0
1	5D	476	0	509	70	0
1	5E	476	0	507	59	0
1	5F	476	0	507	57	0
1	5G	476	0	507	60	0
1	5H	476	0	507	58	0
1	5I	476	0	509	69	0
1	5J	476	0	509	68	0
1	5K	476	0	509	58	0
1	5L	476	0	509	45	0
1	5M	476	0	509	45	0
1	5N	476	0	509	63	0
1	5O	476	0	509	48	0
2	1A	12	0	0	0	0
2	1B	12	0	0	0	0
2	1C	12	0	0	0	0
2	1D	12	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	1E	12	0	0	1	0
2	1F	12	0	0	1	0
2	1G	12	0	0	1	0
2	1H	12	0	0	1	0
2	1I	12	0	0	2	0
2	1J	12	0	0	0	0
2	1K	12	0	0	0	0
2	1L	12	0	0	0	0
2	1M	12	0	0	0	0
2	1N	12	0	0	0	0
2	1O	12	0	0	0	0
2	2A	12	0	0	0	0
2	2B	12	0	0	0	0
2	2C	12	0	0	0	0
2	2D	12	0	0	0	0
2	2E	12	0	0	0	0
2	2F	12	0	0	1	0
2	2G	12	0	0	1	0
2	2H	12	0	0	1	0
2	2I	12	0	0	2	0
2	2J	12	0	0	2	0
2	2K	12	0	0	2	0
2	2L	12	0	0	2	0
2	2M	12	0	0	2	0
2	2N	12	0	0	1	0
2	2O	12	0	0	1	0
2	3A	12	0	0	0	0
2	3B	12	0	0	0	0
2	3C	12	0	0	0	0
2	3D	12	0	0	0	0
2	3E	12	0	0	0	0
2	3F	12	0	0	1	0
2	3G	12	0	0	1	0
2	3H	12	0	0	2	0
2	3I	12	0	0	2	0
2	3J	12	0	0	4	0
2	3K	12	0	0	2	0
2	3L	12	0	0	2	0
2	3M	12	0	0	0	0
2	3N	12	0	0	0	0
2	3O	12	0	0	0	0
2	4A	12	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	4B	12	0	0	0	0
2	4C	12	0	0	0	0
2	4D	12	0	0	0	0
2	4E	12	0	0	0	0
2	4F	12	0	0	1	0
2	4G	12	0	0	1	0
2	4H	12	0	0	2	0
2	4I	12	0	0	2	0
2	4J	12	0	0	4	0
2	4K	12	0	0	2	0
2	4L	12	0	0	2	0
2	4M	12	0	0	0	0
2	4N	12	0	0	0	0
2	4O	12	0	0	0	0
2	5A	12	0	0	0	0
2	5B	12	0	0	0	0
2	5C	12	0	0	0	0
2	5D	12	0	0	0	0
2	5E	12	0	0	0	0
2	5F	12	0	0	1	0
2	5G	12	0	0	1	0
2	5H	12	0	0	2	0
2	5I	12	0	0	2	0
2	5J	12	0	0	4	0
2	5K	12	0	0	2	0
2	5L	12	0	0	2	0
2	5M	12	0	0	0	0
2	5N	12	0	0	0	0
2	5O	12	0	0	0	0
All	All	36600	0	38120	3319	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 44.

All (3319) 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)
1:1G:9:MET:CE	1:2I:67:VAL:HG13	1.25	1.63
1:1L:13:ASN:HD21	1:2N:63:VAL:CB	1.12	1.62
1:1H:9:MET:HE2	1:2J:67:VAL:CG1	1.26	1.60
1:1J:9:MET:CE	1:2L:67:VAL:CG1	1.76	1.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1H:9:MET:CE	1:2J:67:VAL:HG13	1.13	1.55
1:1C:13:ASN:ND2	1:2E:63:VAL:CG1	1.71	1.53
1:1H:9:MET:CE	1:2J:67:VAL:CG1	1.78	1.53
1:3F:13:ASN:ND2	1:4H:63:VAL:CG1	1.71	1.52
1:2F:13:ASN:ND2	1:3H:63:VAL:CG1	1.71	1.52
1:1F:63:VAL:CG1	1:5D:13:ASN:ND2	1.74	1.50
1:2L:13:ASN:CG	1:3N:63:VAL:HG12	1.30	1.50
1:4F:13:ASN:ND2	1:5H:63:VAL:CG1	1.71	1.50
1:3L:13:ASN:CG	1:4N:63:VAL:HG12	1.30	1.49
1:4L:13:ASN:CG	1:5N:63:VAL:HG12	1.31	1.49
1:1K:63:VAL:HG12	1:5I:13:ASN:CG	1.29	1.49
1:3B:13:ASN:ND2	1:4D:63:VAL:HG12	1.19	1.48
1:1L:13:ASN:CG	1:2N:63:VAL:HG12	1.10	1.48
1:2L:13:ASN:ND2	1:3N:63:VAL:CG1	1.78	1.45
1:4B:13:ASN:ND2	1:5D:63:VAL:HG12	1.19	1.45
1:1K:63:VAL:CG1	1:5I:13:ASN:ND2	1.78	1.44
1:1G:13:ASN:ND2	1:2I:63:VAL:HG12	1.17	1.44
1:1K:63:VAL:CB	1:5I:13:ASN:ND2	1.80	1.42
1:1F:9:MET:CE	1:2H:67:VAL:HG13	1.46	1.42
1:2B:13:ASN:ND2	1:3D:63:VAL:HG12	1.20	1.42
1:1C:63:VAL:HG12	1:5A:13:ASN:ND2	1.23	1.42
1:3L:13:ASN:ND2	1:4N:63:VAL:CG1	1.78	1.42
1:4L:13:ASN:ND2	1:5N:63:VAL:CG1	1.78	1.42
1:1F:13:ASN:ND2	1:2H:63:VAL:HG12	1.16	1.41
1:1E:13:ASN:ND2	1:2G:63:VAL:HG12	1.14	1.40
1:2D:13:ASN:ND2	1:3F:63:VAL:HG12	1.08	1.40
1:1G:9:MET:CE	1:2I:67:VAL:CG1	2.00	1.39
1:1H:13:ASN:ND2	1:2J:63:VAL:HG12	1.08	1.38
1:3D:13:ASN:ND2	1:4F:63:VAL:HG12	1.08	1.38
1:1L:58:SER:OG	1:5I:9:MET:CE	1.69	1.37
1:1H:13:ASN:ND2	1:2J:63:VAL:CG1	1.85	1.37
1:1K:13:ASN:CG	1:2M:63:VAL:HG12	1.41	1.36
1:3A:13:ASN:ND2	1:4C:63:VAL:HG12	1.38	1.36
1:4D:13:ASN:ND2	1:5F:63:VAL:HG12	1.08	1.35
1:4C:13:ASN:ND2	1:5E:63:VAL:CG1	1.89	1.35
1:2A:13:ASN:ND2	1:3C:63:VAL:HG12	1.38	1.35
1:4A:13:ASN:ND2	1:5C:63:VAL:HG12	1.38	1.34
1:1B:13:ASN:ND2	1:2D:63:VAL:CG1	1.88	1.34
1:1D:13:ASN:ND2	1:2F:63:VAL:HG12	1.04	1.34
1:1J:9:MET:HE2	1:2L:67:VAL:CG1	1.42	1.34
1:3C:13:ASN:ND2	1:4E:63:VAL:CG1	1.89	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2C:13:ASN:ND2	1:3E:63:VAL:CG1	1.89	1.33
1:1A:13:ASN:ND2	1:2C:63:VAL:HG12	1.00	1.33
1:1M:58:SER:OG	1:5J:9:MET:CE	1.77	1.32
1:2K:9:MET:HE1	1:3N:58:SER:OG	1.26	1.30
1:1D:63:VAL:CG1	1:5B:13:ASN:ND2	1.94	1.30
1:1D:63:VAL:HG12	1:5B:13:ASN:ND2	0.99	1.30
1:2E:13:ASN:ND2	1:3G:63:VAL:CG1	1.95	1.30
1:1K:9:MET:CE	1:2M:67:VAL:CG1	2.09	1.29
1:2E:13:ASN:ND2	1:3G:63:VAL:HG12	0.98	1.29
1:1K:13:ASN:ND2	1:2M:63:VAL:CB	1.94	1.29
1:1K:63:VAL:HB	1:5I:13:ASN:ND2	1.36	1.28
1:2F:9:MET:CE	1:3H:67:VAL:HG13	1.64	1.28
1:4E:13:ASN:ND2	1:5G:63:VAL:HG12	0.98	1.28
1:3E:13:ASN:ND2	1:4G:63:VAL:CG1	1.95	1.28
1:3K:9:MET:HE3	1:4N:58:SER:OG	1.29	1.28
1:4E:13:ASN:ND2	1:5G:63:VAL:CG1	1.95	1.28
1:1A:13:ASN:ND2	1:2C:63:VAL:CG1	1.95	1.27
1:3E:13:ASN:ND2	1:4G:63:VAL:HG12	0.98	1.27
1:1B:13:ASN:HD22	1:2D:63:VAL:CG1	1.44	1.27
1:3F:9:MET:CE	1:4H:67:VAL:HG13	1.64	1.27
1:1K:9:MET:CE	1:2M:67:VAL:HG11	1.63	1.27
1:2C:13:ASN:ND2	1:3E:63:VAL:HG12	0.94	1.27
1:2L:13:ASN:ND2	1:3N:63:VAL:CB	1.98	1.27
1:4F:9:MET:CE	1:5H:67:VAL:HG13	1.64	1.27
1:1L:13:ASN:ND2	1:2N:63:VAL:CB	1.72	1.26
1:4G:9:MET:HE1	1:5I:67:VAL:CG1	1.66	1.26
1:4K:9:MET:HE3	1:5N:58:SER:OG	1.31	1.26
1:1G:9:MET:HE2	1:2I:67:VAL:CG1	1.56	1.26
1:4L:13:ASN:ND2	1:5N:63:VAL:CB	1.98	1.26
1:3L:13:ASN:ND2	1:4N:63:VAL:CB	1.98	1.25
1:2G:9:MET:CE	1:3I:67:VAL:CG1	2.14	1.25
1:3G:9:MET:CE	1:4I:67:VAL:CG1	2.14	1.25
1:4C:13:ASN:ND2	1:5E:63:VAL:HG12	0.94	1.25
1:1H:13:ASN:HD22	1:2J:63:VAL:CG1	1.40	1.25
1:1B:13:ASN:ND2	1:2D:63:VAL:HG12	0.92	1.24
1:3C:13:ASN:ND2	1:4E:63:VAL:HG12	0.94	1.24
1:4G:9:MET:CE	1:5I:67:VAL:CG1	2.14	1.24
1:1D:13:ASN:ND2	1:2F:63:VAL:CG1	2.00	1.24
1:2H:37:VAL:HG12	2:3I:101:6V6:C1	1.66	1.23
1:4H:37:VAL:HG12	2:5I:101:6V6:C1	1.66	1.23
1:1K:37:VAL:HG12	2:2L:101:6V6:C1	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3H:37:VAL:HG12	2:4I:101:6V6:C1	1.66	1.23
1:1K:58:SER:OG	1:5H:9:MET:HE3	1.35	1.22
1:2C:13:ASN:HD22	1:3E:63:VAL:CG1	1.48	1.22
1:1F:9:MET:HE2	1:2H:67:VAL:CG1	1.67	1.22
1:1K:58:SER:OG	1:5H:9:MET:CE	1.88	1.22
1:1A:13:ASN:HD22	1:2C:63:VAL:CG1	1.50	1.21
1:3C:13:ASN:HD22	1:4E:63:VAL:CG1	1.48	1.21
1:2D:13:ASN:ND2	1:3F:63:VAL:CG1	2.04	1.21
1:1A:9:MET:CE	1:2C:67:VAL:HG13	1.72	1.20
1:1G:13:ASN:ND2	1:2I:63:VAL:CG1	2.02	1.20
1:4C:13:ASN:HD22	1:5E:63:VAL:CG1	1.48	1.20
1:2G:9:MET:CE	1:3I:67:VAL:HG13	1.72	1.20
1:1F:63:VAL:HG12	1:5D:13:ASN:ND2	0.88	1.19
1:1L:13:ASN:HD21	1:2N:63:VAL:CA	1.54	1.19
1:4D:13:ASN:ND2	1:5F:63:VAL:CG1	2.04	1.19
1:1J:9:MET:CE	1:2L:67:VAL:HG13	1.51	1.19
1:3F:9:MET:CE	1:4H:67:VAL:CG1	2.22	1.18
1:4F:9:MET:CE	1:5H:67:VAL:CG1	2.22	1.18
1:4G:9:MET:CE	1:5I:67:VAL:HG13	1.72	1.18
1:1L:58:SER:OG	1:5I:9:MET:HE1	1.01	1.18
1:1J:9:MET:CE	1:2L:67:VAL:HG11	1.48	1.18
1:3D:13:ASN:ND2	1:4F:63:VAL:CG1	2.04	1.18
1:4G:9:MET:HE2	1:5I:67:VAL:HG13	1.25	1.18
1:3G:9:MET:CE	1:4I:67:VAL:HG13	1.72	1.18
1:2F:9:MET:CE	1:3H:67:VAL:CG1	2.22	1.17
1:1D:63:VAL:CG1	1:5B:13:ASN:HD22	1.53	1.17
1:1F:13:ASN:ND2	1:2H:63:VAL:CG1	2.07	1.16
1:3K:9:MET:CE	1:4N:58:SER:OG	1.93	1.16
1:2E:13:ASN:HD22	1:3G:63:VAL:CG1	1.54	1.16
1:3L:13:ASN:ND2	1:4N:63:VAL:HB	1.58	1.16
1:3E:13:ASN:HD22	1:4G:63:VAL:CG1	1.54	1.15
1:2K:9:MET:CE	1:3N:58:SER:OG	1.93	1.15
1:1E:13:ASN:ND2	1:2G:63:VAL:CG1	2.09	1.15
1:1L:63:VAL:HB	1:5J:13:ASN:ND2	1.61	1.15
1:4K:9:MET:CE	1:5N:58:SER:OG	1.93	1.15
1:4L:13:ASN:ND2	1:5N:63:VAL:HB	1.58	1.14
1:1F:9:MET:CE	1:2H:67:VAL:CG1	2.24	1.14
1:2L:13:ASN:ND2	1:3N:63:VAL:HB	1.58	1.14
1:4F:9:MET:HE2	1:5H:67:VAL:CG1	1.76	1.13
1:2G:9:MET:HE2	1:3I:67:VAL:HG11	1.22	1.13
1:1K:9:MET:HE3	1:2M:67:VAL:HG13	1.26	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4E:13:ASN:HD22	1:5G:63:VAL:CG1	1.54	1.12
1:1B:9:MET:HE2	1:2D:67:VAL:HG13	1.29	1.12
1:2L:13:ASN:HD21	1:3N:63:VAL:HB	0.95	1.11
1:1G:13:ASN:HD22	1:2I:63:VAL:CG1	1.59	1.11
1:3F:13:ASN:ND2	1:4H:63:VAL:HG12	0.78	1.11
1:4G:9:MET:HE1	1:5I:67:VAL:HG11	1.14	1.11
1:2H:9:MET:HE1	1:3J:67:VAL:HG11	1.32	1.11
1:2F:13:ASN:ND2	1:3H:63:VAL:HG12	0.78	1.11
1:1J:37:VAL:HG12	2:2K:101:6V6:C1	1.79	1.11
1:4F:13:ASN:ND2	1:5H:63:VAL:HG12	0.78	1.11
1:1B:9:MET:CE	1:2D:67:VAL:HG13	1.80	1.10
1:4I:37:VAL:HG12	2:5J:101:6V6:C1	1.80	1.10
1:3I:37:VAL:HG12	2:4J:101:6V6:C1	1.80	1.10
1:3G:9:MET:HE1	1:4I:67:VAL:HG11	1.34	1.10
1:3L:13:ASN:HD21	1:4N:63:VAL:HB	0.95	1.10
1:1L:63:VAL:HG12	1:5J:13:ASN:CG	1.70	1.10
1:1K:63:VAL:CG1	1:5I:13:ASN:CG	2.12	1.10
1:4L:13:ASN:CG	1:5N:63:VAL:CG1	2.14	1.10
1:4B:13:ASN:ND2	1:5D:63:VAL:CG1	2.16	1.09
1:1A:9:MET:HE2	1:2C:67:VAL:HG13	1.19	1.09
1:2G:9:MET:HE2	1:3I:67:VAL:CG1	1.77	1.09
1:2G:9:MET:HE3	1:3I:67:VAL:HG13	1.12	1.09
1:4H:9:MET:HE2	1:5J:67:VAL:HG13	1.29	1.09
1:1E:9:MET:CE	1:2G:67:VAL:HG13	1.82	1.09
1:3B:13:ASN:ND2	1:4D:63:VAL:CG1	2.16	1.09
1:3H:9:MET:HE3	1:4J:67:VAL:HG13	1.31	1.09
1:2I:37:VAL:HG12	2:3J:101:6V6:C1	1.80	1.08
1:2B:13:ASN:ND2	1:3D:63:VAL:CG1	2.16	1.08
1:1M:58:SER:OG	1:5J:9:MET:HE1	0.91	1.08
1:2H:9:MET:CE	1:3J:67:VAL:CG1	2.31	1.07
1:2E:9:MET:HE2	1:3G:67:VAL:HG13	1.36	1.07
1:2F:9:MET:HE1	1:3H:67:VAL:CG1	1.83	1.07
1:3H:9:MET:CE	1:4J:67:VAL:CG1	2.31	1.07
1:4H:9:MET:CE	1:5J:67:VAL:CG1	2.31	1.07
1:4L:13:ASN:HD21	1:5N:63:VAL:HB	0.95	1.07
1:1F:13:ASN:HD22	1:2H:63:VAL:CG1	1.66	1.06
1:2F:9:MET:HE2	1:3H:67:VAL:HG13	1.12	1.06
1:1F:63:VAL:CG1	1:5D:13:ASN:HD22	1.47	1.06
1:1C:13:ASN:ND2	1:2E:63:VAL:HG12	0.74	1.06
1:1F:9:MET:HE2	1:2H:67:VAL:HG13	1.10	1.06
1:1G:9:MET:HE1	1:2I:67:VAL:CG1	1.83	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4E:9:MET:HE2	1:5G:67:VAL:HG13	1.36	1.06
1:1L:63:VAL:CG1	1:5J:13:ASN:ND2	2.19	1.06
1:3L:13:ASN:CG	1:4N:63:VAL:CG1	2.14	1.05
1:4E:9:MET:CE	1:5G:67:VAL:HG13	1.86	1.05
1:3E:9:MET:HE2	1:4G:67:VAL:HG13	1.38	1.05
1:2L:13:ASN:CG	1:3N:63:VAL:CG1	2.14	1.05
1:2B:13:ASN:HD22	1:3D:63:VAL:CG1	1.70	1.05
1:3E:9:MET:CE	1:4G:67:VAL:HG13	1.86	1.05
1:3H:9:MET:HE2	1:4J:67:VAL:HG11	1.37	1.05
1:2H:9:MET:HE2	1:3J:67:VAL:HG13	1.34	1.05
1:4F:9:MET:HE2	1:5H:67:VAL:HG13	1.08	1.05
1:4L:13:ASN:HD21	1:5N:63:VAL:CB	1.64	1.05
1:1L:63:VAL:CB	1:5J:13:ASN:ND2	2.20	1.04
1:2E:9:MET:CE	1:3G:67:VAL:HG13	1.86	1.04
1:2L:13:ASN:HD21	1:3N:63:VAL:CB	1.64	1.04
1:1C:63:VAL:CG1	1:5A:13:ASN:ND2	2.19	1.04
1:3G:9:MET:HE2	1:4I:67:VAL:HG13	1.07	1.04
1:3B:13:ASN:HD22	1:4D:63:VAL:CG1	1.70	1.04
1:4L:9:MET:HE3	1:5O:58:SER:OG	1.55	1.04
1:2M:13:ASN:ND2	1:3O:63:VAL:HG12	1.72	1.04
1:3F:9:MET:HE2	1:4H:67:VAL:HG13	1.09	1.04
1:4B:13:ASN:HD22	1:5D:63:VAL:CG1	1.70	1.04
1:3M:13:ASN:ND2	1:4O:63:VAL:HG12	1.72	1.04
1:4L:13:ASN:ND2	1:5N:63:VAL:HG12	1.55	1.04
1:1L:9:MET:HE2	1:2N:67:VAL:HG11	1.36	1.03
1:1J:58:SER:OG	1:5G:9:MET:SD	2.14	1.03
1:4M:13:ASN:ND2	1:5O:63:VAL:HG12	1.72	1.03
1:1L:63:VAL:HB	1:5J:13:ASN:HD21	1.16	1.03
1:1F:63:VAL:HG12	1:5D:13:ASN:CG	1.79	1.02
1:2J:9:MET:SD	1:3M:58:SER:OG	2.16	1.02
1:2D:13:ASN:HD22	1:3F:63:VAL:CG1	1.68	1.02
1:4J:9:MET:SD	1:5M:58:SER:OG	2.16	1.02
1:1K:63:VAL:CB	1:5I:13:ASN:HD21	1.55	1.02
1:1K:9:MET:HE3	1:2M:67:VAL:CG1	1.83	1.02
1:1E:9:MET:HE2	1:2G:67:VAL:HG13	1.40	1.02
1:1K:63:VAL:HG12	1:5I:13:ASN:CB	1.90	1.02
1:3J:9:MET:SD	1:4M:58:SER:OG	2.16	1.02
1:1A:9:MET:HE2	1:2C:67:VAL:CG1	1.88	1.01
1:3F:9:MET:HE1	1:4H:67:VAL:CG1	1.91	1.01
1:1K:13:ASN:ND2	1:2M:63:VAL:HG11	1.70	1.01
1:3D:13:ASN:HD22	1:4F:63:VAL:CG1	1.68	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3G:9:MET:HE2	1:4I:67:VAL:CG1	1.82	1.01
1:3J:9:MET:SD	1:4M:58:SER:CB	2.49	1.01
1:1K:9:MET:HE2	1:2M:67:VAL:CG1	1.80	1.01
1:4H:9:MET:HE1	1:5J:67:VAL:HG11	1.42	1.01
1:1K:9:MET:HE2	1:2M:67:VAL:HG11	1.01	1.00
1:4H:9:MET:HE2	1:5J:67:VAL:CG1	1.90	1.00
1:4D:13:ASN:HD21	1:5F:63:VAL:HG12	1.24	1.00
1:2L:13:ASN:ND2	1:3N:63:VAL:HG12	1.55	1.00
1:1K:13:ASN:ND2	1:2M:63:VAL:CG1	0.86	1.00
1:1C:63:VAL:CG1	1:5A:13:ASN:HD22	1.74	1.00
1:4J:9:MET:SD	1:5M:58:SER:CB	2.49	1.00
1:2J:9:MET:SD	1:3M:58:SER:CB	2.49	0.99
1:1L:37:VAL:HG12	2:2M:101:6V6:C1	1.93	0.99
1:1D:13:ASN:HD22	1:2F:63:VAL:CG1	1.68	0.99
1:1N:59:VAL:HG13	1:5K:9:MET:SD	2.03	0.99
1:4D:13:ASN:HD22	1:5F:63:VAL:CG1	1.69	0.99
1:2G:37:VAL:HG12	2:3H:101:6V6:C1	1.93	0.98
1:1K:13:ASN:CG	1:2M:63:VAL:CG1	2.12	0.98
1:1I:37:VAL:HG12	2:2J:101:6V6:C1	1.93	0.98
1:3D:13:ASN:HD21	1:4F:63:VAL:HG12	1.24	0.98
1:1K:58:SER:OG	1:5H:9:MET:SD	2.18	0.98
1:3G:37:VAL:HG12	2:4H:101:6V6:C1	1.93	0.98
1:1G:9:MET:HE2	1:2I:67:VAL:HG13	0.98	0.97
1:4C:13:ASN:HD21	1:5E:63:VAL:HG12	1.29	0.97
1:1K:63:VAL:HB	1:5I:13:ASN:HD21	0.84	0.97
1:1G:9:MET:HE3	1:2I:67:VAL:HG13	1.45	0.97
1:4G:37:VAL:HG12	2:5H:101:6V6:C1	1.93	0.97
1:1N:58:SER:OG	1:5K:9:MET:CE	2.13	0.97
1:3J:9:MET:SD	1:4M:58:SER:HB3	2.05	0.97
1:2J:9:MET:SD	1:3M:58:SER:HB3	2.05	0.97
1:2L:9:MET:CE	1:3O:58:SER:OG	2.13	0.97
1:4L:9:MET:CE	1:5O:58:SER:OG	2.13	0.97
1:4J:9:MET:SD	1:5M:58:SER:HB3	2.05	0.96
1:3L:13:ASN:HD21	1:4N:63:VAL:CB	1.64	0.96
1:3L:9:MET:CE	1:4O:58:SER:OG	2.13	0.96
1:1A:9:MET:CE	1:2C:67:VAL:CG1	2.41	0.96
1:1B:13:ASN:HD21	1:2D:63:VAL:HG12	1.19	0.96
1:1L:9:MET:CE	1:2N:67:VAL:HG11	1.96	0.96
1:2I:9:MET:SD	1:3L:58:SER:OG	2.22	0.96
1:2F:9:MET:HE1	1:3H:67:VAL:HG11	1.48	0.96
1:1L:9:MET:CE	1:2N:67:VAL:CG1	2.44	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3G:9:MET:HE1	1:4I:67:VAL:CG1	1.86	0.95
1:4I:9:MET:SD	1:5L:58:SER:OG	2.22	0.95
1:3I:9:MET:SD	1:4L:58:SER:OG	2.22	0.95
1:1H:13:ASN:HD21	1:2J:63:VAL:HG12	1.17	0.95
1:1D:13:ASN:HD21	1:2F:63:VAL:HG12	1.12	0.95
1:1H:9:MET:HE3	1:2J:67:VAL:HG13	0.97	0.94
1:1L:13:ASN:CG	1:2N:63:VAL:CG1	1.87	0.94
1:1N:58:SER:OG	1:5K:9:MET:HE3	1.66	0.94
1:3E:13:ASN:HD21	1:4G:63:VAL:HG12	1.17	0.94
1:1K:37:VAL:CG1	2:2L:101:6V6:C1	2.45	0.94
1:3C:13:ASN:HD21	1:4E:63:VAL:HG12	1.29	0.94
1:1M:58:SER:HG	1:5J:9:MET:HE1	1.12	0.94
1:3L:13:ASN:ND2	1:4N:63:VAL:HG12	1.55	0.94
1:1L:58:SER:CB	1:5I:9:MET:CE	2.45	0.93
1:1B:9:MET:CE	1:2D:67:VAL:CG1	2.45	0.93
1:1C:9:MET:HE2	1:2E:67:VAL:CG1	1.98	0.93
1:1H:37:VAL:HG12	2:2I:101:6V6:C1	1.98	0.93
1:3H:9:MET:HE3	1:4J:67:VAL:CG1	1.94	0.93
1:3L:9:MET:HE3	1:4O:58:SER:OG	1.68	0.93
1:1M:59:VAL:HG13	1:5J:9:MET:SD	2.08	0.93
1:1F:13:ASN:HD21	1:2H:63:VAL:HG12	1.18	0.93
1:1F:63:VAL:HG12	1:5D:13:ASN:HD21	1.28	0.93
1:1N:37:VAL:HG12	2:2O:101:6V6:C1	1.99	0.93
1:3B:9:MET:HE2	1:4D:67:VAL:HG13	1.51	0.93
1:1J:9:MET:HE3	1:2L:67:VAL:HG13	0.94	0.92
1:2D:13:ASN:HD21	1:3F:63:VAL:HG12	1.24	0.92
1:4L:13:ASN:ND2	1:5N:63:VAL:HG11	1.84	0.92
1:2A:9:MET:HE2	1:3C:67:VAL:HG13	1.51	0.92
1:3F:9:MET:HE2	1:4H:67:VAL:CG1	1.88	0.92
1:4E:13:ASN:HD21	1:5G:63:VAL:HG12	1.17	0.92
1:2M:13:ASN:ND2	1:3O:63:VAL:CG1	2.32	0.92
1:1G:13:ASN:HD21	1:2I:63:VAL:HG12	1.19	0.92
1:2C:13:ASN:HD21	1:3E:63:VAL:HG12	1.29	0.92
1:1E:13:ASN:HD22	1:2G:63:VAL:CG1	1.73	0.92
1:1H:9:MET:HE2	1:2J:67:VAL:HG11	0.92	0.92
1:1A:13:ASN:HD21	1:2C:63:VAL:HG12	1.24	0.92
1:1K:63:VAL:HG12	1:5I:13:ASN:ND2	1.57	0.91
1:4M:13:ASN:ND2	1:5O:63:VAL:CG1	2.32	0.91
1:1H:9:MET:HE1	1:2J:67:VAL:HG13	1.49	0.91
1:2J:9:MET:HE3	1:3M:58:SER:OG	1.70	0.91
1:3H:9:MET:CE	1:4J:67:VAL:HG11	1.98	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:1F:101:6V6:C1	1:5E:37:VAL:HG12	2.01	0.91
1:3M:13:ASN:ND2	1:4O:63:VAL:CG1	2.32	0.91
1:3J:37:VAL:HG12	2:4K:101:6V6:C1	2.01	0.91
1:4H:9:MET:CE	1:5J:67:VAL:HG11	1.98	0.90
1:4J:37:VAL:HG12	2:5K:101:6V6:C1	2.01	0.90
1:1E:13:ASN:HD21	1:2G:63:VAL:HG12	1.14	0.90
1:1C:9:MET:CE	1:2E:67:VAL:HG13	2.01	0.90
1:2A:13:ASN:HD22	1:3C:63:VAL:CG1	1.85	0.90
1:1H:9:MET:HE1	1:2J:67:VAL:CG1	1.99	0.90
1:3A:13:ASN:HD22	1:4C:63:VAL:CG1	1.85	0.90
1:4A:13:ASN:HD22	1:5C:63:VAL:CG1	1.85	0.90
1:1K:63:VAL:CG1	1:5I:13:ASN:HD22	1.80	0.90
1:2E:13:ASN:HD21	1:3G:63:VAL:HG12	1.17	0.90
1:1D:63:VAL:HG12	1:5B:13:ASN:HD21	1.32	0.90
1:3F:37:VAL:HG12	2:4G:101:6V6:C1	2.02	0.90
1:2J:37:VAL:HG12	2:3K:101:6V6:C1	2.01	0.89
1:2K:9:MET:CE	1:3N:58:SER:CB	2.51	0.89
1:2L:13:ASN:ND2	1:3N:63:VAL:HG11	1.84	0.89
1:3L:13:ASN:ND2	1:4N:63:VAL:HG11	1.84	0.89
1:4F:37:VAL:HG12	2:5G:101:6V6:C1	2.02	0.89
1:1C:8:LEU:HB2	1:1D:19:THR:HA	1.55	0.89
1:1D:9:MET:CE	1:2F:67:VAL:HG13	2.02	0.89
1:3J:9:MET:CE	1:4M:58:SER:OG	2.21	0.89
1:2F:37:VAL:HG12	2:3G:101:6V6:C1	2.02	0.89
1:2J:9:MET:CE	1:3M:58:SER:OG	2.21	0.89
1:2L:9:MET:HE3	1:3O:58:SER:OG	1.72	0.89
1:1J:58:SER:OG	1:5G:9:MET:CE	2.21	0.89
1:1J:9:MET:HE1	1:2L:67:VAL:CG1	2.02	0.88
1:5C:8:LEU:HB2	1:5D:19:THR:HA	1.55	0.88
1:2B:9:MET:CE	1:3D:67:VAL:HG13	2.04	0.88
1:4J:9:MET:CE	1:5M:58:SER:OG	2.21	0.88
1:4B:9:MET:HE2	1:5D:67:VAL:HG13	1.54	0.88
1:1L:13:ASN:ND2	1:2N:63:VAL:HG13	1.22	0.88
1:2E:37:VAL:HG12	2:3F:101:6V6:C1	2.04	0.88
1:4B:9:MET:CE	1:5D:67:VAL:HG13	2.04	0.88
1:4K:9:MET:CE	1:5N:58:SER:CB	2.51	0.88
1:3E:37:VAL:HG12	2:4F:101:6V6:C1	2.04	0.88
1:3K:9:MET:CE	1:4N:58:SER:CB	2.51	0.88
1:1M:9:MET:HE2	1:2O:67:VAL:HG11	1.56	0.88
1:2H:9:MET:HE1	1:3J:67:VAL:CG1	2.01	0.88
1:4J:9:MET:HE3	1:5M:58:SER:OG	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3B:9:MET:CE	1:4D:67:VAL:HG13	2.04	0.87
1:2H:9:MET:CE	1:3J:67:VAL:HG11	1.98	0.87
1:4E:37:VAL:HG12	2:5F:101:6V6:C1	2.04	0.87
1:1D:9:MET:HE2	1:2F:67:VAL:HG13	1.56	0.87
1:2C:8:LEU:HB2	1:2D:19:THR:HA	1.54	0.87
1:2A:13:ASN:HD22	1:3C:63:VAL:HG12	0.94	0.87
1:4C:8:LEU:HB2	1:4D:19:THR:HA	1.55	0.87
1:1I:58:SER:OG	1:5F:9:MET:SD	2.32	0.86
1:3C:8:LEU:HB2	1:3D:19:THR:HA	1.55	0.86
1:4D:9:MET:HE2	1:5F:67:VAL:HG13	1.57	0.86
1:2H:37:VAL:CG1	2:3I:101:6V6:C1	2.54	0.86
1:3D:9:MET:HE2	1:4F:67:VAL:HG13	1.57	0.86
1:3A:13:ASN:HD22	1:4C:63:VAL:HG12	0.94	0.85
1:3K:9:MET:SD	1:4N:58:SER:HB3	2.16	0.85
1:1C:9:MET:HE2	1:2E:67:VAL:HG13	1.57	0.85
1:2I:9:MET:SD	1:3L:58:SER:CB	2.65	0.85
1:3F:9:MET:HE1	1:4H:67:VAL:HG11	1.58	0.85
1:4E:9:MET:HE2	1:5G:67:VAL:CG1	2.05	0.85
1:2K:9:MET:SD	1:3N:58:SER:HB3	2.16	0.85
1:4K:9:MET:SD	1:5N:58:SER:HB3	2.16	0.85
1:1K:58:SER:CB	1:5H:9:MET:SD	2.64	0.85
1:3N:25:SER:HG	1:3N:29:TRP:HE1	1.25	0.85
1:3I:9:MET:SD	1:4L:58:SER:CB	2.65	0.85
1:3A:9:MET:CE	1:4C:67:VAL:HG13	2.07	0.85
1:1L:9:MET:HE3	1:2N:67:VAL:HG13	1.59	0.84
1:1K:13:ASN:ND2	1:2M:63:VAL:CA	2.39	0.84
1:4A:9:MET:CE	1:5C:67:VAL:HG13	2.07	0.84
1:4F:9:MET:HE1	1:5H:67:VAL:CG1	2.05	0.84
1:2D:9:MET:HE2	1:3F:67:VAL:HG13	1.57	0.84
1:3I:9:MET:HE2	1:4K:67:VAL:CG1	2.06	0.84
1:1C:9:MET:CE	1:2E:67:VAL:CG1	2.54	0.84
1:1E:9:MET:HE2	1:2G:67:VAL:CG1	2.07	0.84
1:4I:9:MET:SD	1:5L:58:SER:CB	2.65	0.84
1:2E:25:SER:HG	1:2E:29:TRP:HE1	1.25	0.84
1:1B:9:MET:HE2	1:2D:67:VAL:CG1	2.05	0.84
1:3A:13:ASN:ND2	1:4C:63:VAL:CG1	2.33	0.83
1:2A:9:MET:CE	1:3C:67:VAL:HG13	2.07	0.83
1:2E:9:MET:CE	1:3G:67:VAL:CG1	2.56	0.83
1:4A:60:PHE:HE2	1:4B:39:ALA:HB2	1.43	0.83
1:1J:37:VAL:CG1	2:2K:101:6V6:C1	2.56	0.83
1:2A:13:ASN:ND2	1:3C:63:VAL:CG1	2.33	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4A:13:ASN:ND2	1:5C:63:VAL:CG1	2.33	0.83
1:3A:60:PHE:HE2	1:3B:39:ALA:HB2	1.43	0.83
1:4H:37:VAL:CG1	2:5I:101:6V6:C1	2.54	0.83
1:4H:25:SER:HG	1:4H:29:TRP:HE1	1.22	0.83
1:2H:9:MET:HE2	1:3J:67:VAL:CG1	1.97	0.83
1:1M:9:MET:CE	1:2O:67:VAL:CG1	2.57	0.83
1:5A:60:PHE:HE2	1:5B:39:ALA:HB2	1.43	0.83
1:1C:13:ASN:CG	1:2E:63:VAL:HG12	1.95	0.82
1:2K:9:MET:SD	1:3N:58:SER:OG	2.36	0.82
1:2E:9:MET:HE2	1:3G:67:VAL:CG1	2.09	0.82
1:4A:13:ASN:HD22	1:5C:63:VAL:HG12	0.94	0.82
1:4E:9:MET:CE	1:5G:67:VAL:CG1	2.56	0.82
1:2I:9:MET:HE2	1:3K:67:VAL:CG1	2.08	0.82
1:3L:13:ASN:CB	1:4N:63:VAL:HG12	2.10	0.82
1:2L:13:ASN:CB	1:3N:63:VAL:HG12	2.10	0.82
1:1M:58:SER:HG	1:5J:9:MET:CE	1.73	0.82
1:1M:58:SER:CB	1:5J:9:MET:HE1	2.08	0.82
1:3E:9:MET:CE	1:4G:67:VAL:CG1	2.56	0.82
1:2B:9:MET:HE2	1:3D:67:VAL:HG13	1.59	0.82
1:3D:9:MET:CE	1:4F:67:VAL:HG13	2.10	0.82
1:2F:9:MET:HE2	1:3H:67:VAL:CG1	1.96	0.82
1:3H:37:VAL:CG1	2:4I:101:6V6:C1	2.54	0.81
1:4L:13:ASN:CB	1:5N:63:VAL:HG12	2.10	0.81
1:1C:25:SER:HG	1:1C:29:TRP:HE1	1.27	0.81
1:3E:25:SER:HG	1:3E:29:TRP:HE1	1.28	0.81
1:4D:9:MET:CE	1:5F:67:VAL:HG13	2.10	0.81
1:2A:60:PHE:HE2	1:2B:39:ALA:HB2	1.43	0.81
1:1C:67:VAL:HG13	1:5A:9:MET:CE	2.10	0.81
1:1M:9:MET:HE2	1:2O:67:VAL:CG1	2.10	0.81
1:3K:9:MET:SD	1:4N:58:SER:CB	2.68	0.81
1:1A:60:PHE:HE2	1:1B:39:ALA:HB2	1.43	0.81
1:2K:9:MET:SD	1:3N:58:SER:CB	2.68	0.81
1:2L:13:ASN:HD22	1:3N:63:VAL:CG1	1.90	0.81
1:4K:9:MET:SD	1:5N:58:SER:CB	2.68	0.81
1:1K:13:ASN:ND2	1:2M:63:VAL:HG13	1.15	0.81
1:3J:25:SER:HG	1:3J:29:TRP:HE1	1.28	0.81
1:4F:25:SER:HG	1:4F:29:TRP:HE1	1.29	0.81
1:5A:25:SER:HG	1:5A:29:TRP:HE1	1.25	0.81
1:4L:13:ASN:HD22	1:5N:63:VAL:CG1	1.90	0.80
1:2D:25:SER:HG	1:2D:29:TRP:HE1	1.30	0.80
2:1G:101:6V6:C1	1:5F:37:VAL:HG12	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1J:25:SER:HG	1:1J:29:TRP:HE1	1.29	0.80
1:3D:8:LEU:HB2	1:3E:19:THR:HA	1.63	0.80
1:5D:8:LEU:HB2	1:5E:19:THR:HA	1.63	0.80
1:4C:9:MET:HE2	1:5E:67:VAL:HG13	1.63	0.80
1:1J:58:SER:CB	1:5G:9:MET:SD	2.70	0.80
1:4C:9:MET:CE	1:5E:67:VAL:HG13	2.13	0.79
1:1F:63:VAL:CB	1:5D:13:ASN:ND2	2.45	0.79
1:1K:58:SER:HB3	1:5H:9:MET:SD	2.22	0.79
1:2C:9:MET:CE	1:3E:67:VAL:HG13	2.13	0.79
1:4D:8:LEU:HB2	1:4E:19:THR:HA	1.63	0.79
1:1E:9:MET:CE	1:2G:67:VAL:CG1	2.59	0.79
1:4K:9:MET:SD	1:5N:58:SER:OG	2.36	0.79
1:2C:25:SER:HG	1:2C:29:TRP:HE1	1.30	0.79
1:2D:9:MET:CE	1:3F:67:VAL:HG13	2.10	0.79
1:3K:9:MET:SD	1:4N:58:SER:OG	2.36	0.79
1:1D:8:LEU:HB2	1:1E:19:THR:HA	1.63	0.79
1:1K:63:VAL:HG11	1:5I:13:ASN:ND2	1.95	0.79
1:1A:25:SER:HG	1:1A:29:TRP:HE1	1.31	0.79
1:1K:58:SER:CB	1:5H:9:MET:CE	2.61	0.79
1:2D:8:LEU:HB2	1:2E:19:THR:HA	1.63	0.79
1:3L:13:ASN:HD22	1:4N:63:VAL:CG1	1.90	0.79
1:3C:9:MET:CE	1:4E:67:VAL:HG13	2.13	0.79
1:4I:9:MET:HE2	1:5K:67:VAL:CG1	2.13	0.79
1:1N:59:VAL:CG1	1:5K:9:MET:SD	2.71	0.78
1:2C:9:MET:HE2	1:3E:67:VAL:HG13	1.64	0.78
1:1E:53:GLY:HA2	1:1E:56:ILE:HB	1.66	0.78
1:1L:13:ASN:HD22	1:2N:63:VAL:HG11	0.62	0.78
1:1F:53:GLY:HA2	1:1F:56:ILE:HB	1.66	0.78
1:1G:9:MET:HE2	1:2I:67:VAL:HG11	1.63	0.78
1:4M:53:GLY:HA2	1:4M:56:ILE:HB	1.66	0.78
1:4H:9:MET:CE	1:5J:67:VAL:HG13	2.04	0.78
1:1G:53:GLY:HA2	1:1G:56:ILE:HB	1.66	0.78
1:1E:13:ASN:HD22	1:2G:63:VAL:HG12	0.98	0.78
1:3D:25:SER:HG	1:3D:29:TRP:HE1	1.31	0.78
1:4L:53:GLY:HA2	1:4L:56:ILE:HB	1.66	0.78
1:4N:53:GLY:HA2	1:4N:56:ILE:HB	1.66	0.78
1:5N:53:GLY:HA2	1:5N:56:ILE:HB	1.66	0.78
1:5O:53:GLY:HA2	1:5O:56:ILE:HB	1.66	0.78
1:1D:53:GLY:HA2	1:1D:56:ILE:HB	1.66	0.78
1:2H:53:GLY:HA2	1:2H:56:ILE:HB	1.66	0.78
1:2I:53:GLY:HA2	1:2I:56:ILE:HB	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1H:53:GLY:HA2	1:1H:56:ILE:HB	1.66	0.78
1:1M:58:SER:CB	1:5J:9:MET:CE	2.61	0.78
1:5D:53:GLY:HA2	1:5D:56:ILE:HB	1.66	0.78
1:5E:53:GLY:HA2	1:5E:56:ILE:HB	1.66	0.78
1:2G:53:GLY:HA2	1:2G:56:ILE:HB	1.66	0.78
1:3L:53:GLY:HA2	1:3L:56:ILE:HB	1.66	0.78
1:5B:53:GLY:HA2	1:5B:56:ILE:HB	1.66	0.78
1:5C:53:GLY:HA2	1:5C:56:ILE:HB	1.66	0.78
1:1C:53:GLY:HA2	1:1C:56:ILE:HB	1.66	0.77
1:2F:53:GLY:HA2	1:2F:56:ILE:HB	1.66	0.77
1:2J:53:GLY:HA2	1:2J:56:ILE:HB	1.66	0.77
1:3J:53:GLY:HA2	1:3J:56:ILE:HB	1.66	0.77
1:3K:53:GLY:HA2	1:3K:56:ILE:HB	1.66	0.77
1:3M:13:ASN:CG	1:4O:63:VAL:HG12	2.04	0.77
1:3M:53:GLY:HA2	1:3M:56:ILE:HB	1.66	0.77
1:4O:53:GLY:HA2	1:4O:56:ILE:HB	1.66	0.77
1:5A:53:GLY:HA2	1:5A:56:ILE:HB	1.66	0.77
1:5M:53:GLY:HA2	1:5M:56:ILE:HB	1.66	0.77
1:2K:53:GLY:HA2	1:2K:56:ILE:HB	1.66	0.77
1:4A:53:GLY:HA2	1:4A:56:ILE:HB	1.66	0.77
1:4A:8:LEU:HB2	1:4B:19:THR:HA	1.66	0.77
1:4K:53:GLY:HA2	1:4K:56:ILE:HB	1.66	0.77
1:5F:53:GLY:HA2	1:5F:56:ILE:HB	1.66	0.77
1:1I:53:GLY:HA2	1:1I:56:ILE:HB	1.66	0.77
1:3A:53:GLY:HA2	1:3A:56:ILE:HB	1.66	0.77
1:3E:9:MET:HE2	1:4G:67:VAL:CG1	2.13	0.77
1:3I:53:GLY:HA2	1:3I:56:ILE:HB	1.66	0.77
1:2H:9:MET:CE	1:3J:67:VAL:HG13	2.04	0.77
1:4B:53:GLY:HA2	1:4B:56:ILE:HB	1.66	0.77
1:1O:53:GLY:HA2	1:1O:56:ILE:HB	1.66	0.77
1:2E:53:GLY:HA2	1:2E:56:ILE:HB	1.66	0.77
1:3N:53:GLY:HA2	1:3N:56:ILE:HB	1.66	0.77
1:5B:25:SER:HG	1:5B:29:TRP:HE1	1.31	0.77
1:5H:25:SER:HG	1:5H:29:TRP:HE1	1.31	0.77
1:4C:53:GLY:HA2	1:4C:56:ILE:HB	1.66	0.77
1:5A:8:LEU:HB2	1:5B:19:THR:HA	1.66	0.77
1:3H:53:GLY:HA2	1:3H:56:ILE:HB	1.66	0.77
1:5L:53:GLY:HA2	1:5L:56:ILE:HB	1.66	0.77
1:1A:8:LEU:HB2	1:1B:19:THR:HA	1.66	0.77
1:4D:53:GLY:HA2	1:4D:56:ILE:HB	1.66	0.77
1:1L:13:ASN:ND2	1:2N:63:VAL:CG1	0.63	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2L:53:GLY:HA2	1:2L:56:ILE:HB	1.66	0.77
1:2M:13:ASN:CG	1:3O:63:VAL:HG12	2.05	0.77
1:2B:13:ASN:HD21	1:3D:63:VAL:HG12	1.46	0.77
1:4J:53:GLY:HA2	1:4J:56:ILE:HB	1.66	0.77
1:5G:53:GLY:HA2	1:5G:56:ILE:HB	1.66	0.77
1:1B:53:GLY:HA2	1:1B:56:ILE:HB	1.66	0.77
1:1E:25:SER:HG	1:1E:29:TRP:HE1	1.31	0.77
1:2B:25:SER:HG	1:2B:29:TRP:HE1	1.32	0.77
1:3B:25:SER:HG	1:3B:29:TRP:HE1	1.31	0.77
1:4E:53:GLY:HA2	1:4E:56:ILE:HB	1.66	0.76
1:4M:13:ASN:CG	1:5O:63:VAL:HG12	2.05	0.76
1:1J:53:GLY:HA2	1:1J:56:ILE:HB	1.66	0.76
1:1N:53:GLY:HA2	1:1N:56:ILE:HB	1.66	0.76
1:3O:53:GLY:HA2	1:3O:56:ILE:HB	1.66	0.76
1:2D:53:GLY:HA2	1:2D:56:ILE:HB	1.66	0.76
1:1G:25:SER:HG	1:1G:29:TRP:HE1	1.30	0.76
1:2M:53:GLY:HA2	1:2M:56:ILE:HB	1.66	0.76
1:3G:53:GLY:HA2	1:3G:56:ILE:HB	1.66	0.76
1:3C:9:MET:HE1	1:4E:67:VAL:CG1	2.15	0.76
1:5H:53:GLY:HA2	1:5H:56:ILE:HB	1.66	0.76
1:5K:53:GLY:HA2	1:5K:56:ILE:HB	1.66	0.76
1:1M:37:VAL:HG12	2:2N:101:6V6:C1	2.15	0.76
1:1F:9:MET:HE3	1:2H:67:VAL:HG13	1.62	0.76
1:3B:53:GLY:HA2	1:3B:56:ILE:HB	1.66	0.76
1:3D:13:ASN:HD22	1:4F:63:VAL:HG12	0.93	0.76
1:5C:25:SER:HG	1:5C:29:TRP:HE1	1.31	0.76
1:1H:13:ASN:ND2	1:2J:63:VAL:HG13	1.98	0.76
1:3H:9:MET:CE	1:4J:67:VAL:HG13	2.04	0.76
1:2N:53:GLY:HA2	1:2N:56:ILE:HB	1.66	0.76
1:3E:53:GLY:HA2	1:3E:56:ILE:HB	1.66	0.76
1:4I:53:GLY:HA2	1:4I:56:ILE:HB	1.66	0.76
1:4D:13:ASN:HD22	1:5F:63:VAL:HG12	0.93	0.76
1:1A:53:GLY:HA2	1:1A:56:ILE:HB	1.66	0.76
1:1L:13:ASN:HD22	1:2N:63:VAL:CG1	0.47	0.76
1:1L:53:GLY:HA2	1:1L:56:ILE:HB	1.66	0.76
1:1M:53:GLY:HA2	1:1M:56:ILE:HB	1.66	0.76
1:3F:53:GLY:HA2	1:3F:56:ILE:HB	1.66	0.76
1:1D:67:VAL:HG13	1:5B:9:MET:CE	2.15	0.76
1:1K:53:GLY:HA2	1:1K:56:ILE:HB	1.66	0.76
1:1D:13:ASN:HD22	1:2F:63:VAL:HG12	0.94	0.76
1:2D:13:ASN:HD22	1:3F:63:VAL:HG12	0.93	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4F:53:GLY:HA2	1:4F:56:ILE:HB	1.66	0.76
1:4H:53:GLY:HA2	1:4H:56:ILE:HB	1.66	0.76
1:4I:25:SER:HG	1:4I:29:TRP:HE1	1.32	0.76
1:4J:25:SER:HG	1:4J:29:TRP:HE1	1.32	0.76
1:2C:53:GLY:HA2	1:2C:56:ILE:HB	1.66	0.76
1:2O:53:GLY:HA2	1:2O:56:ILE:HB	1.66	0.76
1:3A:8:LEU:HB2	1:3B:19:THR:HA	1.66	0.75
1:3D:53:GLY:HA2	1:3D:56:ILE:HB	1.66	0.75
1:5I:53:GLY:HA2	1:5I:56:ILE:HB	1.66	0.75
1:2B:53:GLY:HA2	1:2B:56:ILE:HB	1.66	0.75
1:3C:25:SER:HG	1:3C:29:TRP:HE1	1.33	0.75
1:3C:53:GLY:HA2	1:3C:56:ILE:HB	1.66	0.75
1:2A:53:GLY:HA2	1:2A:56:ILE:HB	1.66	0.75
1:2A:8:LEU:HB2	1:2B:19:THR:HA	1.66	0.75
1:1G:9:MET:CE	1:2I:67:VAL:HG11	2.10	0.75
1:4G:53:GLY:HA2	1:4G:56:ILE:HB	1.66	0.75
1:5J:53:GLY:HA2	1:5J:56:ILE:HB	1.66	0.75
1:3J:9:MET:HE3	1:4M:58:SER:OG	1.87	0.75
1:5C:60:PHE:HE2	1:5D:39:ALA:HB2	1.52	0.75
1:1N:25:SER:HG	1:1N:29:TRP:HE1	1.30	0.75
1:2L:25:SER:HG	1:2L:29:TRP:HE1	1.32	0.75
1:3A:9:MET:HE2	1:4C:67:VAL:HG13	1.68	0.75
1:1C:63:VAL:HG12	1:5A:13:ASN:HD21	1.50	0.75
1:1C:9:MET:HE2	1:2E:67:VAL:HG11	1.68	0.75
1:4A:25:SER:HG	1:4A:29:TRP:HE1	1.31	0.75
1:4C:60:PHE:HE2	1:4D:39:ALA:HB2	1.52	0.75
1:4A:9:MET:HE2	1:5C:67:VAL:HG13	1.69	0.74
1:5I:25:SER:HG	1:5I:29:TRP:HE1	1.33	0.74
1:1B:25:SER:HG	1:1B:29:TRP:HE1	1.34	0.74
1:1O:25:SER:HG	1:1O:29:TRP:HE1	1.31	0.74
1:2A:25:SER:HG	1:2A:29:TRP:HE1	1.34	0.74
1:4B:25:SER:HG	1:4B:29:TRP:HE1	1.31	0.74
1:1C:60:PHE:HE2	1:1D:39:ALA:HB2	1.52	0.74
1:3G:25:SER:HG	1:3G:29:TRP:HE1	1.34	0.74
1:3H:25:SER:HG	1:3H:29:TRP:HE1	1.33	0.74
1:4G:25:SER:HG	1:4G:29:TRP:HE1	1.34	0.74
1:4O:25:SER:HG	1:4O:29:TRP:HE1	1.34	0.74
1:1F:63:VAL:HG11	1:5D:13:ASN:HD22	1.48	0.74
1:1L:58:SER:HG	1:5I:9:MET:CE	1.74	0.74
1:1L:9:MET:HE3	1:2N:67:VAL:CG1	2.14	0.74
1:2I:9:MET:HE2	1:3K:67:VAL:HG13	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1L:58:SER:CB	1:5I:9:MET:SD	2.75	0.74
1:1C:67:VAL:CG1	1:5A:9:MET:HE1	2.18	0.74
1:3F:25:SER:HG	1:3F:29:TRP:HE1	1.34	0.74
1:3L:25:SER:HG	1:3L:29:TRP:HE1	1.34	0.74
1:3M:25:SER:HG	1:3M:29:TRP:HE1	1.34	0.74
1:4N:25:SER:HG	1:4N:29:TRP:HE1	1.34	0.74
1:1M:25:SER:HG	1:1M:29:TRP:HE1	1.31	0.74
2:1I:101:6V6:C1	1:5H:37:VAL:HG12	2.18	0.74
1:3C:60:PHE:HE2	1:3D:39:ALA:HB2	1.52	0.74
2:1H:101:6V6:C1	1:5G:37:VAL:HG12	2.18	0.73
1:2L:9:MET:CE	1:3O:58:SER:HG	2.00	0.73
1:1L:13:ASN:CB	1:2N:63:VAL:HG12	2.15	0.73
1:3A:25:SER:HG	1:3A:29:TRP:HE1	1.32	0.73
1:1B:9:MET:HE1	1:2D:67:VAL:CG1	2.17	0.73
1:4K:25:SER:HG	1:4K:29:TRP:HE1	1.32	0.73
1:1F:13:ASN:HD22	1:2H:63:VAL:HG12	0.91	0.73
1:1I:25:SER:HG	1:1I:29:TRP:HE1	1.34	0.73
1:1L:63:VAL:HG12	1:5J:13:ASN:ND2	1.94	0.73
1:4C:25:SER:HG	1:4C:29:TRP:HE1	1.33	0.73
1:5J:25:SER:HG	1:5J:29:TRP:HE1	1.34	0.73
1:1D:25:SER:HG	1:1D:29:TRP:HE1	1.34	0.73
1:1F:9:MET:HE2	1:2H:67:VAL:HG11	1.64	0.73
1:2C:60:PHE:HE2	1:2D:39:ALA:HB2	1.52	0.73
1:2F:25:SER:HG	1:2F:29:TRP:HE1	1.34	0.73
1:4L:9:MET:CE	1:5O:58:SER:HG	1.99	0.73
1:5E:63:VAL:O	1:5E:67:VAL:N	2.22	0.73
1:1G:63:VAL:O	1:1G:67:VAL:N	2.22	0.73
1:1H:25:SER:HG	1:1H:29:TRP:HE1	1.33	0.73
1:2J:25:SER:HG	1:2J:29:TRP:HE1	1.34	0.73
1:3I:9:MET:HE2	1:4K:67:VAL:HG13	1.71	0.73
1:4D:25:SER:HG	1:4D:29:TRP:HE1	1.33	0.73
1:4N:63:VAL:O	1:4N:67:VAL:N	2.22	0.73
1:5D:25:SER:HG	1:5D:29:TRP:HE1	1.32	0.73
1:4I:9:MET:HE2	1:5K:67:VAL:HG13	1.69	0.73
1:2H:25:SER:HG	1:2H:29:TRP:HE1	1.33	0.73
1:3L:63:VAL:O	1:3L:67:VAL:N	2.22	0.73
1:4F:9:MET:CE	1:5H:67:VAL:HG11	2.17	0.73
1:2I:63:VAL:O	1:2I:67:VAL:N	2.22	0.73
1:3A:63:VAL:O	1:3A:67:VAL:N	2.22	0.73
1:4C:63:VAL:O	1:4C:67:VAL:N	2.22	0.73
1:2J:63:VAL:O	1:2J:67:VAL:N	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4B:63:VAL:O	1:4B:67:VAL:N	2.22	0.73
1:1J:9:MET:HE2	1:2L:67:VAL:HG11	0.74	0.72
1:3K:63:VAL:O	1:3K:67:VAL:N	2.22	0.72
1:4M:25:SER:HG	1:4M:29:TRP:HE1	1.34	0.72
1:5D:63:VAL:O	1:5D:67:VAL:N	2.22	0.72
1:5G:25:SER:HG	1:5G:29:TRP:HE1	1.34	0.72
1:1H:63:VAL:O	1:1H:67:VAL:N	2.22	0.72
1:3O:63:VAL:O	1:3O:67:VAL:N	2.22	0.72
1:2I:25:SER:HG	1:2I:29:TRP:HE1	1.33	0.72
1:3N:63:VAL:O	1:3N:67:VAL:N	2.22	0.72
1:4M:63:VAL:O	1:4M:67:VAL:N	2.22	0.72
1:4O:19:THR:O	1:4O:24:SER:OG	2.07	0.72
1:4O:63:VAL:O	1:4O:67:VAL:N	2.22	0.72
1:1F:63:VAL:O	1:1F:67:VAL:N	2.22	0.72
1:1L:13:ASN:HD21	1:2N:63:VAL:HA	1.52	0.72
1:1L:25:SER:HG	1:1L:29:TRP:HE1	1.33	0.72
1:2G:25:SER:HG	1:2G:29:TRP:HE1	1.34	0.72
1:4E:8:LEU:HB2	1:4F:19:THR:HA	1.72	0.72
1:1H:8:LEU:HB2	1:1I:19:THR:HA	1.71	0.72
1:2L:63:VAL:O	1:2L:67:VAL:N	2.22	0.72
1:2O:25:SER:HG	1:2O:29:TRP:HE1	1.33	0.72
1:4C:6:GLN:N	1:4D:15:THR:HG1	1.86	0.72
1:5B:63:VAL:O	1:5B:67:VAL:N	2.22	0.72
1:5F:63:VAL:O	1:5F:67:VAL:N	2.22	0.72
1:1J:63:VAL:O	1:1J:67:VAL:N	2.22	0.72
1:1L:58:SER:HB3	1:5I:9:MET:SD	2.29	0.72
1:2M:63:VAL:O	1:2M:67:VAL:N	2.22	0.72
1:2N:25:SER:HG	1:2N:29:TRP:HE1	1.32	0.72
1:4L:13:ASN:HD22	1:5N:63:VAL:HG11	1.50	0.72
1:5F:8:LEU:HB2	1:5G:19:THR:HA	1.71	0.72
1:5L:25:SER:HG	1:5L:29:TRP:HE1	1.34	0.72
1:5O:63:VAL:O	1:5O:67:VAL:N	2.22	0.72
1:1F:25:SER:HG	1:1F:29:TRP:HE1	1.33	0.72
1:3M:63:VAL:O	1:3M:67:VAL:N	2.22	0.72
1:4C:19:THR:O	1:4C:24:SER:OG	2.07	0.72
1:4D:63:VAL:O	1:4D:67:VAL:N	2.22	0.72
1:4E:25:SER:HG	1:4E:29:TRP:HE1	1.34	0.72
1:5O:25:SER:HG	1:5O:29:TRP:HE1	1.34	0.72
1:2K:25:SER:HG	1:2K:29:TRP:HE1	1.37	0.72
1:3N:19:THR:O	1:3N:24:SER:OG	2.07	0.72
1:5C:63:VAL:O	1:5C:67:VAL:N	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1H:19:THR:O	1:1H:24:SER:OG	2.07	0.72
1:2L:19:THR:O	1:2L:24:SER:OG	2.07	0.72
1:3B:63:VAL:O	1:3B:67:VAL:N	2.22	0.72
1:4A:63:VAL:O	1:4A:67:VAL:N	2.22	0.72
1:4G:19:THR:O	1:4G:24:SER:OG	2.07	0.72
1:1I:63:VAL:O	1:1I:67:VAL:N	2.22	0.72
1:2H:63:VAL:O	1:2H:67:VAL:N	2.22	0.72
1:3A:19:THR:O	1:3A:24:SER:OG	2.07	0.72
1:3H:9:MET:SD	1:4K:58:SER:OG	2.47	0.72
1:4F:8:LEU:HB2	1:4G:19:THR:HA	1.71	0.72
1:5E:8:LEU:HB2	1:5F:19:THR:HA	1.72	0.72
1:5M:25:SER:HG	1:5M:29:TRP:HE1	1.34	0.72
1:1I:19:THR:O	1:1I:24:SER:OG	2.07	0.71
1:1K:63:VAL:O	1:1K:67:VAL:N	2.22	0.71
1:2K:63:VAL:O	1:2K:67:VAL:N	2.22	0.71
1:3I:9:MET:SD	1:4L:58:SER:HB3	2.30	0.71
1:5H:8:LEU:HB2	1:5I:19:THR:HA	1.72	0.71
1:1D:63:VAL:O	1:1D:67:VAL:N	2.22	0.71
1:4K:9:MET:CE	1:5N:58:SER:HG	1.98	0.71
1:5H:63:VAL:O	1:5H:67:VAL:N	2.22	0.71
1:1E:63:VAL:O	1:1E:67:VAL:N	2.22	0.71
1:1L:19:THR:O	1:1L:24:SER:OG	2.07	0.71
1:2N:63:VAL:O	1:2N:67:VAL:N	2.22	0.71
1:1M:9:MET:CE	1:2O:67:VAL:HG13	2.20	0.71
1:3K:25:SER:HG	1:3K:29:TRP:HE1	1.37	0.71
1:4E:63:VAL:O	1:4E:67:VAL:N	2.22	0.71
1:5G:63:VAL:O	1:5G:67:VAL:N	2.22	0.71
1:2K:19:THR:O	1:2K:24:SER:OG	2.07	0.71
1:5A:63:VAL:O	1:5A:67:VAL:N	2.22	0.71
1:5F:25:SER:HG	1:5F:29:TRP:HE1	1.34	0.71
1:1G:13:ASN:HD22	1:2I:63:VAL:HG12	0.90	0.71
1:2K:8:LEU:HB2	1:2L:19:THR:HA	1.73	0.71
1:3C:19:THR:O	1:3C:24:SER:OG	2.07	0.71
1:3J:63:VAL:O	1:3J:67:VAL:N	2.22	0.71
1:4B:19:THR:O	1:4B:24:SER:OG	2.07	0.71
1:4F:63:VAL:O	1:4F:67:VAL:N	2.22	0.71
1:1C:63:VAL:HG12	1:5A:13:ASN:HD22	0.88	0.71
1:1I:8:LEU:HB2	1:1J:19:THR:HA	1.73	0.71
1:2A:19:THR:O	1:2A:24:SER:OG	2.07	0.71
1:2F:8:LEU:HB2	1:2G:19:THR:HA	1.71	0.71
1:4E:19:THR:O	1:4E:24:SER:OG	2.07	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4H:19:THR:O	1:4H:24:SER:OG	2.07	0.71
1:4L:63:VAL:O	1:4L:67:VAL:N	2.22	0.71
1:2F:63:VAL:O	1:2F:67:VAL:N	2.22	0.71
1:2G:63:VAL:O	1:2G:67:VAL:N	2.22	0.71
1:2H:9:MET:SD	1:3K:58:SER:OG	2.47	0.71
1:3C:6:GLN:N	1:3D:15:THR:HG1	1.87	0.71
1:3I:25:SER:HG	1:3I:29:TRP:HE1	1.34	0.71
1:3B:13:ASN:HD21	1:4D:63:VAL:HG12	1.46	0.71
1:4I:9:MET:SD	1:5L:58:SER:HB3	2.30	0.71
1:4L:25:SER:HG	1:4L:29:TRP:HE1	1.34	0.71
1:1J:19:THR:O	1:1J:24:SER:OG	2.07	0.71
1:2E:8:LEU:HB2	1:2F:19:THR:HA	1.72	0.71
1:2L:8:LEU:HB2	1:2M:19:THR:HA	1.73	0.71
1:3D:63:VAL:O	1:3D:67:VAL:N	2.22	0.71
1:3I:63:VAL:O	1:3I:67:VAL:N	2.22	0.71
1:4B:13:ASN:HD21	1:5D:63:VAL:HG12	1.46	0.71
1:5I:63:VAL:O	1:5I:67:VAL:N	2.22	0.71
1:1M:63:VAL:HB	1:5K:13:ASN:ND2	2.06	0.71
1:5N:25:SER:HG	1:5N:29:TRP:HE1	1.34	0.71
1:1K:8:LEU:HB2	1:1L:19:THR:HA	1.72	0.71
1:2I:9:MET:CE	1:3K:67:VAL:CG1	2.69	0.71
1:5E:25:SER:HG	1:5E:29:TRP:HE1	1.34	0.71
1:4H:9:MET:HE1	1:5J:67:VAL:CG1	2.10	0.71
1:5N:63:VAL:O	1:5N:67:VAL:N	2.22	0.71
1:2E:63:VAL:O	1:2E:67:VAL:N	2.22	0.71
1:3I:9:MET:CE	1:4K:67:VAL:CG1	2.69	0.71
1:1C:63:VAL:O	1:1C:67:VAL:N	2.22	0.70
1:1L:63:VAL:O	1:1L:67:VAL:N	2.22	0.70
1:1L:8:LEU:HB2	1:1M:19:THR:HA	1.73	0.70
1:1M:63:VAL:HG12	1:5K:13:ASN:CG	2.10	0.70
1:3E:63:VAL:O	1:3E:67:VAL:N	2.22	0.70
1:3H:8:LEU:HB2	1:3I:19:THR:HA	1.72	0.70
1:4H:8:LEU:HB2	1:4I:19:THR:HA	1.71	0.70
1:4K:63:VAL:O	1:4K:67:VAL:N	2.22	0.70
1:5H:19:THR:O	1:5H:24:SER:OG	2.07	0.70
1:1F:63:VAL:HG12	1:5D:13:ASN:HD22	0.97	0.70
1:1J:9:MET:HE3	1:2L:67:VAL:CG1	1.68	0.70
1:2L:13:ASN:HD22	1:3N:63:VAL:HG11	1.50	0.70
1:2M:19:THR:O	1:2M:24:SER:OG	2.07	0.70
1:2O:19:THR:O	1:2O:24:SER:OG	2.07	0.70
1:3C:63:VAL:O	1:3C:67:VAL:N	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3O:19:THR:O	1:3O:24:SER:OG	2.07	0.70
1:4G:8:LEU:HB2	1:4H:19:THR:HA	1.73	0.70
1:2B:63:VAL:O	1:2B:67:VAL:N	2.22	0.70
1:3H:63:VAL:O	1:3H:67:VAL:N	2.22	0.70
1:4G:63:VAL:O	1:4G:67:VAL:N	2.22	0.70
1:4D:9:MET:HE2	1:5F:67:VAL:CG1	2.20	0.70
1:1E:19:THR:O	1:1E:24:SER:OG	2.07	0.70
1:1F:8:LEU:HB2	1:1G:19:THR:HA	1.71	0.70
1:2O:63:VAL:O	1:2O:67:VAL:N	2.22	0.70
1:2C:9:MET:CE	1:3E:67:VAL:CG1	2.70	0.70
1:3E:8:LEU:HB2	1:3F:19:THR:HA	1.72	0.70
1:3G:19:THR:O	1:3G:24:SER:OG	2.07	0.70
1:4D:19:THR:O	1:4D:24:SER:OG	2.07	0.70
1:2D:63:VAL:O	1:2D:67:VAL:N	2.22	0.70
1:2G:8:LEU:HB2	1:2H:19:THR:HA	1.73	0.70
1:2I:19:THR:O	1:2I:24:SER:OG	2.07	0.70
1:1H:13:ASN:HD21	1:2J:63:VAL:CG1	1.82	0.70
1:3F:8:LEU:HB2	1:3G:19:THR:HA	1.71	0.70
1:3M:19:THR:O	1:3M:24:SER:OG	2.07	0.70
1:3C:9:MET:CE	1:4E:67:VAL:CG1	2.70	0.70
1:4J:63:VAL:O	1:4J:67:VAL:N	2.22	0.70
1:5G:8:LEU:HB2	1:5H:19:THR:HA	1.72	0.70
1:5I:8:LEU:HB2	1:5J:19:THR:HA	1.73	0.70
1:1B:63:VAL:O	1:1B:67:VAL:N	2.22	0.70
1:1N:19:THR:O	1:1N:24:SER:OG	2.07	0.70
1:5J:63:VAL:O	1:5J:67:VAL:N	2.22	0.70
1:5M:63:VAL:O	1:5M:67:VAL:N	2.22	0.70
1:1F:63:VAL:CB	1:5D:13:ASN:HD21	2.01	0.70
1:2F:19:THR:O	1:2F:24:SER:OG	2.07	0.70
1:5K:25:SER:HG	1:5K:29:TRP:HE1	1.36	0.70
1:2A:63:VAL:O	1:2A:67:VAL:N	2.22	0.70
1:1D:9:MET:HE2	1:2F:67:VAL:CG1	2.22	0.70
1:3F:63:VAL:O	1:3F:67:VAL:N	2.22	0.70
1:3G:63:VAL:O	1:3G:67:VAL:N	2.22	0.70
1:5K:63:VAL:O	1:5K:67:VAL:N	2.22	0.70
1:5L:63:VAL:O	1:5L:67:VAL:N	2.22	0.70
1:1M:63:VAL:CG1	1:5K:13:ASN:ND2	2.54	0.70
1:4H:63:VAL:O	1:4H:67:VAL:N	2.22	0.70
1:5J:19:THR:O	1:5J:24:SER:OG	2.07	0.70
1:1E:8:LEU:HB2	1:1F:19:THR:HA	1.72	0.70
1:2C:63:VAL:O	1:2C:67:VAL:N	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2H:8:LEU:HB2	1:2I:19:THR:HA	1.72	0.70
1:3I:8:LEU:HB2	1:3J:19:THR:HA	1.73	0.70
1:2I:9:MET:SD	1:3L:58:SER:HB3	2.30	0.70
1:3O:25:SER:HG	1:3O:29:TRP:HE1	1.34	0.70
1:4F:19:THR:O	1:4F:24:SER:OG	2.07	0.70
1:4H:9:MET:SD	1:5K:58:SER:OG	2.47	0.70
1:4I:63:VAL:O	1:4I:67:VAL:N	2.22	0.70
1:4C:9:MET:CE	1:5E:67:VAL:CG1	2.70	0.70
1:1I:37:VAL:CG1	2:2J:101:6V6:C1	2.70	0.69
1:1K:25:SER:HG	1:1K:29:TRP:HE1	1.35	0.69
1:1M:63:VAL:O	1:1M:67:VAL:N	2.22	0.69
1:2M:25:SER:HG	1:2M:29:TRP:HE1	1.34	0.69
1:3G:8:LEU:HB2	1:3H:19:THR:HA	1.72	0.69
1:4I:9:MET:CE	1:5K:67:VAL:CG1	2.69	0.69
1:1M:9:MET:CE	1:2O:67:VAL:HG11	2.22	0.69
1:5F:19:THR:O	1:5F:24:SER:OG	2.07	0.69
1:1O:63:VAL:O	1:1O:67:VAL:N	2.22	0.69
1:2C:19:THR:O	1:2C:24:SER:OG	2.07	0.69
1:4I:8:LEU:HB2	1:4J:19:THR:HA	1.73	0.69
1:1B:19:THR:O	1:1B:24:SER:OG	2.07	0.69
1:2C:6:GLN:N	1:2D:15:THR:HG1	1.89	0.69
1:4K:8:LEU:HB2	1:4L:19:THR:HA	1.73	0.69
1:4L:8:LEU:HB2	1:4M:19:THR:HA	1.73	0.69
1:5M:19:THR:O	1:5M:24:SER:OG	2.07	0.69
1:1A:63:VAL:O	1:1A:67:VAL:N	2.22	0.69
1:1F:9:MET:HE1	1:2H:67:VAL:CG1	2.18	0.69
1:1G:8:LEU:HB2	1:1H:19:THR:HA	1.72	0.69
1:1N:63:VAL:O	1:1N:67:VAL:N	2.22	0.69
1:5D:19:THR:O	1:5D:24:SER:OG	2.07	0.69
1:3C:9:MET:HE2	1:4E:67:VAL:HG13	1.74	0.69
1:4L:19:THR:O	1:4L:24:SER:OG	2.07	0.69
1:2D:9:MET:HE2	1:3F:67:VAL:CG1	2.23	0.69
1:3I:9:MET:HE2	1:4K:67:VAL:HG11	1.75	0.69
1:5C:6:GLN:N	1:5D:15:THR:HG1	1.90	0.69
1:5K:8:LEU:HB2	1:5L:19:THR:HA	1.73	0.69
1:1K:19:THR:O	1:1K:24:SER:OG	2.07	0.69
1:2I:8:LEU:HB2	1:2J:19:THR:HA	1.73	0.69
1:3L:8:LEU:HB2	1:3M:19:THR:HA	1.73	0.69
1:5A:60:PHE:CE2	1:5B:39:ALA:HB2	2.28	0.69
1:2J:8:LEU:HB2	1:2K:19:THR:HA	1.74	0.68
1:5L:8:LEU:HB2	1:5M:19:THR:HA	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1K:63:VAL:CG1	1:5I:13:ASN:CB	2.63	0.68
1:3K:8:LEU:HB2	1:3L:19:THR:HA	1.73	0.68
1:4J:9:MET:CE	1:5M:58:SER:CB	2.71	0.68
1:5J:8:LEU:HB2	1:5K:19:THR:HA	1.74	0.68
1:1C:67:VAL:HG13	1:5A:9:MET:HE1	1.75	0.68
1:3A:60:PHE:CE2	1:3B:39:ALA:HB2	2.28	0.68
1:4A:60:PHE:CE2	1:4B:39:ALA:HB2	2.28	0.68
1:3J:9:MET:CE	1:4M:58:SER:CB	2.72	0.68
1:3E:19:THR:O	1:3E:24:SER:OG	2.07	0.68
1:3K:19:THR:O	1:3K:24:SER:OG	2.07	0.68
1:4I:19:THR:O	1:4I:24:SER:OG	2.07	0.68
1:5A:19:THR:O	1:5A:24:SER:OG	2.07	0.68
1:1J:8:LEU:HB2	1:1K:19:THR:HA	1.75	0.68
1:4J:8:LEU:HB2	1:4K:19:THR:HA	1.74	0.68
1:1L:58:SER:OG	1:5I:9:MET:SD	2.33	0.68
1:2C:9:MET:HE1	1:3E:67:VAL:CG1	2.23	0.68
1:1E:37:VAL:HG12	2:2F:101:6V6:C1	2.23	0.68
1:2A:60:PHE:CE2	1:2B:39:ALA:HB2	2.28	0.68
1:3J:8:LEU:HB2	1:3K:19:THR:HA	1.74	0.68
1:3C:9:MET:HE1	1:4E:67:VAL:HG11	1.75	0.68
1:1L:63:VAL:CG1	1:5J:13:ASN:CG	2.46	0.68
1:4L:9:MET:HE3	1:5O:58:SER:HG	1.53	0.67
1:1D:67:VAL:HG13	1:5B:9:MET:HE2	1.75	0.67
1:2I:9:MET:CE	1:3K:67:VAL:HG11	2.24	0.67
1:1L:37:VAL:CG1	2:2M:101:6V6:C1	2.72	0.67
1:1M:19:THR:O	1:1M:24:SER:OG	2.07	0.67
1:2B:9:MET:HE1	1:3D:67:VAL:CG1	2.24	0.67
1:3B:57:ILE:HD11	1:3C:42:TYR:HD2	1.60	0.67
1:3I:37:VAL:CG1	2:4J:101:6V6:C1	2.68	0.67
1:3D:9:MET:HE2	1:4F:67:VAL:CG1	2.24	0.67
1:3L:13:ASN:HD22	1:4N:63:VAL:HG11	1.50	0.67
1:5B:57:ILE:HD11	1:5C:42:TYR:HD2	1.60	0.67
1:5D:52:ALA:HB1	1:5D:56:ILE:HD12	1.76	0.67
1:1K:63:VAL:HG12	1:5I:13:ASN:HB3	1.77	0.67
1:2J:9:MET:CE	1:3M:58:SER:CB	2.71	0.67
1:4O:52:ALA:HB1	1:4O:56:ILE:HD12	1.76	0.67
1:1F:52:ALA:HB1	1:1F:56:ILE:HD12	1.76	0.67
1:1M:8:LEU:HB2	1:1N:19:THR:HA	1.76	0.67
1:3H:19:THR:O	1:3H:24:SER:OG	2.07	0.67
1:3M:52:ALA:HB1	1:3M:56:ILE:HD12	1.76	0.67
1:4B:52:ALA:HB1	1:4B:56:ILE:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3A:9:MET:HE1	1:4C:67:VAL:CG1	2.25	0.67
1:4C:9:MET:HE1	1:5E:67:VAL:CG1	2.25	0.67
1:4N:52:ALA:HB1	1:4N:56:ILE:HD12	1.76	0.67
1:1K:63:VAL:HG11	1:5I:13:ASN:HD22	1.53	0.67
1:4I:9:MET:CE	1:5K:67:VAL:HG11	2.24	0.67
1:1A:60:PHE:CE2	1:1B:39:ALA:HB2	2.28	0.67
1:1B:57:ILE:HD11	1:1C:42:TYR:HD2	1.60	0.67
1:1G:52:ALA:HB1	1:1G:56:ILE:HD12	1.76	0.67
1:3H:57:ILE:HA	1:3H:60:PHE:HB3	1.77	0.67
1:3L:52:ALA:HB1	1:3L:56:ILE:HD12	1.76	0.67
1:3M:8:LEU:HB2	1:3N:19:THR:HA	1.76	0.67
1:3N:52:ALA:HB1	1:3N:56:ILE:HD12	1.76	0.67
1:4K:57:ILE:HA	1:4K:60:PHE:HB3	1.77	0.67
1:5E:52:ALA:HB1	1:5E:56:ILE:HD12	1.77	0.67
1:1D:67:VAL:CG1	1:5B:9:MET:HE1	2.24	0.67
1:2D:57:ILE:HA	1:2D:60:PHE:HB3	1.77	0.67
1:2M:8:LEU:HB2	1:2N:19:THR:HA	1.76	0.67
1:3B:57:ILE:HA	1:3B:60:PHE:HB3	1.77	0.67
1:3K:52:ALA:HB1	1:3K:56:ILE:HD12	1.76	0.67
1:4B:57:ILE:HD11	1:4C:42:TYR:HD2	1.60	0.67
1:4E:57:ILE:HA	1:4E:60:PHE:HB3	1.77	0.67
1:4J:57:ILE:HA	1:4J:60:PHE:HB3	1.77	0.67
1:4A:9:MET:HE1	1:5C:67:VAL:CG1	2.24	0.67
1:1A:57:ILE:HA	1:1A:60:PHE:HB3	1.77	0.67
1:1B:57:ILE:HA	1:1B:60:PHE:HB3	1.77	0.67
1:1E:52:ALA:HB1	1:1E:56:ILE:HD12	1.77	0.67
1:1F:19:THR:O	1:1F:24:SER:OG	2.07	0.67
1:1L:57:ILE:HA	1:1L:60:PHE:HB3	1.77	0.67
1:1M:52:ALA:HB1	1:1M:56:ILE:HD12	1.76	0.67
1:2D:19:THR:O	1:2D:24:SER:OG	2.07	0.67
1:2E:57:ILE:HA	1:2E:60:PHE:HB3	1.77	0.67
1:2H:52:ALA:HB1	1:2H:56:ILE:HD12	1.76	0.67
1:2K:52:ALA:HB1	1:2K:56:ILE:HD12	1.76	0.67
1:2O:57:ILE:HA	1:2O:60:PHE:HB3	1.77	0.67
1:3F:52:ALA:HB1	1:3F:56:ILE:HD12	1.77	0.67
1:3G:57:ILE:HA	1:3G:60:PHE:HB3	1.77	0.67
1:4F:57:ILE:HA	1:4F:60:PHE:HB3	1.77	0.67
1:4H:52:ALA:HB1	1:4H:56:ILE:HD12	1.76	0.67
1:4I:52:ALA:HB1	1:4I:56:ILE:HD12	1.77	0.67
1:5I:57:ILE:HA	1:5I:60:PHE:HB3	1.77	0.67
1:5M:57:ILE:HA	1:5M:60:PHE:HB3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5N:57:ILE:HA	1:5N:60:PHE:HB3	1.77	0.67
1:1G:57:ILE:HA	1:1G:60:PHE:HB3	1.77	0.67
1:2D:52:ALA:HB1	1:2D:56:ILE:HD12	1.76	0.67
1:2J:57:ILE:HA	1:2J:60:PHE:HB3	1.77	0.67
1:2O:52:ALA:HB1	1:2O:56:ILE:HD12	1.76	0.67
1:3C:57:ILE:HA	1:3C:60:PHE:HB3	1.77	0.67
1:3G:52:ALA:HB1	1:3G:56:ILE:HD12	1.77	0.67
1:4A:52:ALA:HB1	1:4A:56:ILE:HD12	1.76	0.67
1:4C:52:ALA:HB1	1:4C:56:ILE:HD12	1.77	0.67
1:4K:19:THR:O	1:4K:24:SER:OG	2.07	0.67
1:5C:57:ILE:HA	1:5C:60:PHE:HB3	1.77	0.67
1:5H:57:ILE:HA	1:5H:60:PHE:HB3	1.77	0.67
1:5J:52:ALA:HB1	1:5J:56:ILE:HD12	1.76	0.67
1:5K:52:ALA:HB1	1:5K:56:ILE:HD12	1.77	0.67
1:1B:52:ALA:HB1	1:1B:56:ILE:HD12	1.76	0.66
1:2G:19:THR:O	1:2G:24:SER:OG	2.07	0.66
1:2I:52:ALA:HB1	1:2I:56:ILE:HD12	1.77	0.66
1:2I:57:ILE:HA	1:2I:60:PHE:HB3	1.77	0.66
1:2L:52:ALA:HB1	1:2L:56:ILE:HD12	1.76	0.66
1:2N:19:THR:O	1:2N:24:SER:OG	2.07	0.66
1:3A:52:ALA:HB1	1:3A:56:ILE:HD12	1.76	0.66
1:3A:57:ILE:HA	1:3A:60:PHE:HB3	1.77	0.66
1:2B:9:MET:CE	1:3D:67:VAL:CG1	2.73	0.66
1:3M:57:ILE:HA	1:3M:60:PHE:HB3	1.77	0.66
1:4M:52:ALA:HB1	1:4M:56:ILE:HD12	1.76	0.66
1:5B:57:ILE:HA	1:5B:60:PHE:HB3	1.77	0.66
1:5D:57:ILE:HA	1:5D:60:PHE:HB3	1.77	0.66
1:1H:57:ILE:HA	1:1H:60:PHE:HB3	1.77	0.66
1:1L:52:ALA:HB1	1:1L:56:ILE:HD12	1.76	0.66
1:1L:63:VAL:HG12	1:5J:13:ASN:CB	2.25	0.66
1:2C:57:ILE:HA	1:2C:60:PHE:HB3	1.77	0.66
1:2J:52:ALA:HB1	1:2J:56:ILE:HD12	1.76	0.66
1:2K:57:ILE:HA	1:2K:60:PHE:HB3	1.77	0.66
1:2N:57:ILE:HA	1:2N:60:PHE:HB3	1.77	0.66
1:3J:52:ALA:HB1	1:3J:56:ILE:HD12	1.76	0.66
1:3N:57:ILE:HA	1:3N:60:PHE:HB3	1.77	0.66
1:4D:52:ALA:HB1	1:4D:56:ILE:HD12	1.76	0.66
1:3G:9:MET:CE	1:4I:67:VAL:HG11	1.98	0.66
1:5C:52:ALA:HB1	1:5C:56:ILE:HD12	1.76	0.66
1:5F:52:ALA:HB1	1:5F:56:ILE:HD12	1.76	0.66
1:1H:52:ALA:HB1	1:1H:56:ILE:HD12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:52:ALA:HB1	1:1I:56:ILE:HD12	1.76	0.66
1:1M:57:ILE:HA	1:1M:60:PHE:HB3	1.77	0.66
1:2B:13:ASN:HD22	1:3D:63:VAL:HG12	0.83	0.66
1:5O:52:ALA:HB1	1:5O:56:ILE:HD12	1.76	0.66
1:1F:57:ILE:HA	1:1F:60:PHE:HB3	1.77	0.66
1:1K:57:ILE:HA	1:1K:60:PHE:HB3	1.77	0.66
1:3D:57:ILE:HA	1:3D:60:PHE:HB3	1.77	0.66
1:3I:19:THR:O	1:3I:24:SER:OG	2.07	0.66
1:3I:9:MET:CE	1:4K:67:VAL:HG11	2.24	0.66
1:4A:57:ILE:HA	1:4A:60:PHE:HB3	1.77	0.66
1:4L:52:ALA:HB1	1:4L:56:ILE:HD12	1.76	0.66
1:4O:57:ILE:HA	1:4O:60:PHE:HB3	1.77	0.66
1:1L:58:SER:HG	1:5I:9:MET:HE1	1.34	0.66
1:5J:57:ILE:HA	1:5J:60:PHE:HB3	1.77	0.66
1:1O:57:ILE:HA	1:1O:60:PHE:HB3	1.77	0.66
1:2A:52:ALA:HB1	1:2A:56:ILE:HD12	1.77	0.66
1:2G:52:ALA:HB1	1:2G:56:ILE:HD12	1.76	0.66
1:2J:19:THR:O	1:2J:24:SER:OG	2.07	0.66
1:3L:57:ILE:HA	1:3L:60:PHE:HB3	1.77	0.66
1:3O:52:ALA:HB1	1:3O:56:ILE:HD12	1.77	0.66
1:4G:57:ILE:HA	1:4G:60:PHE:HB3	1.77	0.66
1:4L:57:ILE:HA	1:4L:60:PHE:HB3	1.77	0.66
1:5A:57:ILE:HA	1:5A:60:PHE:HB3	1.77	0.66
1:5E:57:ILE:HA	1:5E:60:PHE:HB3	1.77	0.66
1:4I:37:VAL:CG1	2:5J:101:6V6:C1	2.68	0.66
1:5M:8:LEU:HB2	1:5N:19:THR:HA	1.76	0.66
1:1A:52:ALA:HB1	1:1A:56:ILE:HD12	1.76	0.66
1:1C:13:ASN:ND2	1:2E:63:VAL:CB	2.56	0.66
1:1C:52:ALA:HB1	1:1C:56:ILE:HD12	1.77	0.66
1:2E:52:ALA:HB1	1:2E:56:ILE:HD12	1.77	0.66
1:2H:57:ILE:HA	1:2H:60:PHE:HB3	1.77	0.66
1:3B:52:ALA:HB1	1:3B:56:ILE:HD12	1.77	0.66
1:3I:57:ILE:HA	1:3I:60:PHE:HB3	1.77	0.66
1:4D:57:ILE:HA	1:4D:60:PHE:HB3	1.77	0.66
1:4M:8:LEU:HB2	1:4N:19:THR:HA	1.76	0.66
1:5B:52:ALA:HB1	1:5B:56:ILE:HD12	1.76	0.66
1:5K:19:THR:O	1:5K:24:SER:OG	2.07	0.66
1:1D:52:ALA:HB1	1:1D:56:ILE:HD12	1.76	0.66
1:1I:57:ILE:HA	1:1I:60:PHE:HB3	1.77	0.66
1:1N:52:ALA:HB1	1:1N:56:ILE:HD12	1.76	0.66
1:1O:19:THR:O	1:1O:24:SER:OG	2.07	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2L:57:ILE:HA	1:2L:60:PHE:HB3	1.77	0.66
1:3F:57:ILE:HA	1:3F:60:PHE:HB3	1.77	0.66
1:4I:57:ILE:HA	1:4I:60:PHE:HB3	1.77	0.66
1:5G:57:ILE:HA	1:5G:60:PHE:HB3	1.77	0.66
1:1D:19:THR:O	1:1D:24:SER:OG	2.07	0.66
1:2F:57:ILE:HA	1:2F:60:PHE:HB3	1.77	0.66
1:2M:52:ALA:HB1	1:2M:56:ILE:HD12	1.76	0.66
1:3C:52:ALA:HB1	1:3C:56:ILE:HD12	1.77	0.66
1:4B:57:ILE:HA	1:4B:60:PHE:HB3	1.77	0.66
1:5L:57:ILE:HA	1:5L:60:PHE:HB3	1.77	0.66
1:1A:6:GLN:N	1:1B:15:THR:HG1	1.94	0.66
1:1E:57:ILE:HA	1:1E:60:PHE:HB3	1.77	0.66
1:1J:52:ALA:HB1	1:1J:56:ILE:HD12	1.77	0.66
1:2A:57:ILE:HA	1:2A:60:PHE:HB3	1.77	0.66
1:2N:52:ALA:HB1	1:2N:56:ILE:HD12	1.76	0.66
1:3L:19:THR:O	1:3L:24:SER:OG	2.07	0.66
1:5L:52:ALA:HB1	1:5L:56:ILE:HD12	1.76	0.66
1:5O:57:ILE:HA	1:5O:60:PHE:HB3	1.77	0.66
1:3I:52:ALA:HB1	1:3I:56:ILE:HD12	1.77	0.66
1:4E:52:ALA:HB1	1:4E:56:ILE:HD12	1.76	0.66
1:4G:52:ALA:HB1	1:4G:56:ILE:HD12	1.76	0.66
1:4J:52:ALA:HB1	1:4J:56:ILE:HD12	1.76	0.66
1:5A:52:ALA:HB1	1:5A:56:ILE:HD12	1.76	0.66
1:5N:19:THR:O	1:5N:24:SER:OG	2.07	0.66
1:5N:52:ALA:HB1	1:5N:56:ILE:HD12	1.76	0.66
1:2F:52:ALA:HB1	1:2F:56:ILE:HD12	1.76	0.65
1:3E:52:ALA:HB1	1:3E:56:ILE:HD12	1.77	0.65
1:3K:57:ILE:HA	1:3K:60:PHE:HB3	1.77	0.65
1:4K:52:ALA:HB1	1:4K:56:ILE:HD12	1.76	0.65
1:5G:52:ALA:HB1	1:5G:56:ILE:HD12	1.76	0.65
1:1G:19:THR:O	1:1G:24:SER:OG	2.07	0.65
1:1N:57:ILE:HA	1:1N:60:PHE:HB3	1.77	0.65
1:2A:45:THR:HG1	1:2A:50:PHE:HE2	1.45	0.65
1:2B:57:ILE:HD11	1:2C:42:TYR:HD2	1.59	0.65
1:2M:57:ILE:HA	1:2M:60:PHE:HB3	1.77	0.65
1:3O:57:ILE:HA	1:3O:60:PHE:HB3	1.77	0.65
1:1C:57:ILE:HA	1:1C:60:PHE:HB3	1.77	0.65
1:1C:6:GLN:N	1:1D:15:THR:HG1	1.94	0.65
1:2G:57:ILE:HA	1:2G:60:PHE:HB3	1.77	0.65
1:4C:57:ILE:HA	1:4C:60:PHE:HB3	1.77	0.65
1:4M:19:THR:O	1:4M:24:SER:OG	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5F:57:ILE:HA	1:5F:60:PHE:HB3	1.77	0.65
1:1L:59:VAL:HG13	1:5I:9:MET:SD	2.36	0.65
1:1G:37:VAL:HG12	2:2H:101:6V6:C1	2.25	0.65
1:2C:52:ALA:HB1	1:2C:56:ILE:HD12	1.77	0.65
1:4N:57:ILE:HA	1:4N:60:PHE:HB3	1.77	0.65
1:5I:52:ALA:HB1	1:5I:56:ILE:HD12	1.76	0.65
1:1J:57:ILE:HA	1:1J:60:PHE:HB3	1.77	0.65
1:2B:19:THR:O	1:2B:24:SER:OG	2.07	0.65
1:2B:45:THR:HG1	1:2B:50:PHE:HE2	1.45	0.65
1:2B:52:ALA:HB1	1:2B:56:ILE:HD12	1.76	0.65
1:1L:13:ASN:CB	1:2N:63:VAL:CG1	2.73	0.65
1:3H:52:ALA:HB1	1:3H:56:ILE:HD12	1.76	0.65
1:5A:6:GLN:N	1:5B:15:THR:HG1	1.94	0.65
1:4B:9:MET:CE	1:5D:67:VAL:CG1	2.73	0.65
1:1N:58:SER:OG	1:5K:9:MET:HE1	1.96	0.65
1:1K:52:ALA:HB1	1:1K:56:ILE:HD12	1.76	0.65
1:2B:57:ILE:HA	1:2B:60:PHE:HB3	1.77	0.65
1:2B:8:LEU:HB2	1:2C:19:THR:HA	1.78	0.65
1:3D:45:THR:HG1	1:3D:50:PHE:HE2	1.45	0.65
1:3D:52:ALA:HB1	1:3D:56:ILE:HD12	1.76	0.65
1:4F:52:ALA:HB1	1:4F:56:ILE:HD12	1.76	0.65
1:5B:19:THR:O	1:5B:24:SER:OG	2.07	0.65
1:4B:13:ASN:HD22	1:5D:63:VAL:HG12	0.83	0.65
1:4J:9:MET:CE	1:5M:58:SER:HG	2.05	0.65
1:1D:57:ILE:HA	1:1D:60:PHE:HB3	1.77	0.65
1:3C:70:LEU:C	1:3D:28:LYS:HD3	2.17	0.65
1:3L:9:MET:CE	1:4O:58:SER:HG	2.07	0.65
1:4J:19:THR:O	1:4J:24:SER:OG	2.07	0.65
1:5B:8:LEU:HB2	1:5C:19:THR:HA	1.78	0.65
1:5H:52:ALA:HB1	1:5H:56:ILE:HD12	1.76	0.65
1:5K:57:ILE:HA	1:5K:60:PHE:HB3	1.77	0.65
1:3E:57:ILE:HA	1:3E:60:PHE:HB3	1.77	0.65
1:5M:52:ALA:HB1	1:5M:56:ILE:HD12	1.76	0.65
1:3J:57:ILE:HA	1:3J:60:PHE:HB3	1.77	0.65
1:4M:57:ILE:HA	1:4M:60:PHE:HB3	1.77	0.65
1:5O:19:THR:O	1:5O:24:SER:OG	2.07	0.65
1:1J:58:SER:HB3	1:5G:9:MET:SD	2.36	0.65
1:2C:57:ILE:O	1:2C:61:ILE:N	2.21	0.65
1:4C:70:LEU:C	1:4D:28:LYS:HD3	2.17	0.65
1:4H:57:ILE:HA	1:4H:60:PHE:HB3	1.77	0.65
1:5F:57:ILE:O	1:5F:61:ILE:N	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:13:ASN:HD21	1:2D:63:VAL:HA	1.62	0.64
1:1C:19:THR:O	1:1C:24:SER:OG	2.07	0.64
1:1C:70:LEU:C	1:1D:28:LYS:HD3	2.17	0.64
1:2D:45:THR:HG1	1:2D:50:PHE:HE2	1.45	0.64
1:4B:8:LEU:HB2	1:4C:19:THR:HA	1.78	0.64
1:5E:19:THR:O	1:5E:24:SER:OG	2.07	0.64
1:5L:19:THR:O	1:5L:24:SER:OG	2.07	0.64
1:1A:9:MET:HE1	1:2C:67:VAL:CG1	2.27	0.64
1:3C:45:THR:HG1	1:3C:50:PHE:HE2	1.46	0.64
1:2G:9:MET:CE	1:3I:67:VAL:HG11	1.98	0.64
1:2I:37:VAL:CG1	2:3J:101:6V6:C1	2.68	0.64
1:1M:63:VAL:HB	1:5K:13:ASN:HD21	1.62	0.64
1:1A:45:THR:HG1	1:1A:50:PHE:HE2	1.46	0.64
1:1B:8:LEU:HB2	1:1C:19:THR:HA	1.78	0.64
1:1O:52:ALA:HB1	1:1O:56:ILE:HD12	1.76	0.64
1:3B:13:ASN:HD22	1:4D:63:VAL:HG12	0.83	0.64
1:4E:45:THR:HG1	1:4E:50:PHE:HE2	1.46	0.64
1:4N:19:THR:O	1:4N:24:SER:OG	2.07	0.64
1:5C:57:ILE:O	1:5C:61:ILE:N	2.21	0.64
1:5C:70:LEU:C	1:5D:28:LYS:HD3	2.17	0.64
1:5G:19:THR:O	1:5G:24:SER:OG	2.07	0.64
1:5G:45:THR:HG1	1:5G:50:PHE:HE2	1.46	0.64
1:1H:13:ASN:HD22	1:2J:63:VAL:HG12	0.85	0.64
1:3D:15:THR:O	1:3D:19:THR:N	2.27	0.64
1:3J:19:THR:O	1:3J:24:SER:OG	2.07	0.64
1:4M:15:THR:O	1:4M:19:THR:N	2.27	0.64
1:5E:57:ILE:O	1:5E:61:ILE:N	2.21	0.64
1:1J:45:THR:HG1	1:1J:50:PHE:HE2	1.45	0.64
1:2A:6:GLN:N	1:2B:15:THR:HG1	1.96	0.64
1:2E:45:THR:HG1	1:2E:50:PHE:HE2	1.45	0.64
1:2M:57:ILE:O	1:2M:61:ILE:N	2.21	0.64
1:3B:8:LEU:HB2	1:3C:19:THR:HA	1.78	0.64
1:3G:45:THR:HG1	1:3G:50:PHE:HE2	1.44	0.64
1:5I:19:THR:O	1:5I:24:SER:OG	2.07	0.64
1:5J:15:THR:O	1:5J:19:THR:N	2.27	0.64
1:1G:45:THR:HG1	1:1G:50:PHE:HE2	1.46	0.64
1:1H:37:VAL:CG1	2:2I:101:6V6:C1	2.75	0.64
1:1J:57:ILE:O	1:1J:61:ILE:N	2.21	0.64
1:3B:9:MET:CE	1:4D:67:VAL:CG1	2.73	0.64
1:2H:19:THR:O	1:2H:24:SER:OG	2.07	0.63
1:4A:19:THR:O	1:4A:24:SER:OG	2.07	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5I:15:THR:O	1:5I:19:THR:N	2.27	0.63
1:2E:19:THR:O	1:2E:24:SER:OG	2.07	0.63
1:2H:45:THR:HG1	1:2H:50:PHE:HE2	1.46	0.63
1:4C:45:THR:HG1	1:4C:50:PHE:HE2	1.46	0.63
1:4K:37:VAL:HG12	2:5L:101:6V6:C1	2.28	0.63
1:5D:57:ILE:O	1:5D:61:ILE:N	2.21	0.63
1:2I:17:LYS:O	1:2I:21:GLY:N	2.32	0.63
1:2K:37:VAL:HG12	2:3L:101:6V6:C1	2.28	0.63
1:2O:17:LYS:O	1:2O:21:GLY:N	2.32	0.63
1:4A:6:GLN:N	1:4B:15:THR:HG1	1.95	0.63
1:4F:17:LYS:O	1:4F:21:GLY:N	2.32	0.63
1:4I:57:ILE:O	1:4I:61:ILE:N	2.21	0.63
1:5G:15:THR:O	1:5G:19:THR:N	2.28	0.63
1:1E:17:LYS:O	1:1E:21:GLY:N	2.32	0.63
1:1I:17:LYS:O	1:1I:21:GLY:N	2.32	0.63
1:1K:17:LYS:O	1:1K:21:GLY:N	2.32	0.63
1:3B:17:LYS:O	1:3B:21:GLY:N	2.32	0.63
1:3K:17:LYS:O	1:3K:21:GLY:N	2.32	0.63
1:4C:17:LYS:O	1:4C:21:GLY:N	2.32	0.63
1:4L:17:LYS:O	1:4L:21:GLY:N	2.32	0.63
1:4O:17:LYS:O	1:4O:21:GLY:N	2.32	0.63
1:5D:17:LYS:O	1:5D:21:GLY:N	2.32	0.63
1:5H:15:THR:O	1:5H:19:THR:N	2.28	0.63
1:1H:17:LYS:O	1:1H:21:GLY:N	2.32	0.63
1:2G:17:LYS:O	1:2G:21:GLY:N	2.32	0.63
1:2M:17:LYS:O	1:2M:21:GLY:N	2.32	0.63
1:3D:17:LYS:O	1:3D:21:GLY:N	2.32	0.63
1:3F:19:THR:O	1:3F:24:SER:OG	2.07	0.63
1:3I:45:THR:HG1	1:3I:50:PHE:HE2	1.46	0.63
1:3N:17:LYS:O	1:3N:21:GLY:N	2.32	0.63
1:5B:15:THR:O	1:5B:19:THR:N	2.27	0.63
1:5G:17:LYS:O	1:5G:21:GLY:N	2.32	0.63
1:5J:17:LYS:O	1:5J:21:GLY:N	2.32	0.63
1:1F:17:LYS:O	1:1F:21:GLY:N	2.32	0.63
1:2J:17:LYS:O	1:2J:21:GLY:N	2.32	0.63
1:1K:9:MET:CE	1:2M:67:VAL:HG13	1.93	0.63
1:3A:17:LYS:O	1:3A:21:GLY:N	2.32	0.63
1:3I:15:THR:O	1:3I:19:THR:N	2.27	0.63
1:3M:17:LYS:O	1:3M:21:GLY:N	2.32	0.63
1:5C:8:LEU:CB	1:5D:19:THR:HA	2.29	0.63
1:5L:57:ILE:O	1:5L:61:ILE:N	2.21	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1L:17:LYS:O	1:1L:21:GLY:N	2.32	0.63
1:2C:17:LYS:O	1:2C:21:GLY:N	2.32	0.63
1:2G:45:THR:HG1	1:2G:50:PHE:HE2	1.46	0.63
1:2L:17:LYS:O	1:2L:21:GLY:N	2.32	0.63
1:3E:17:LYS:O	1:3E:21:GLY:N	2.32	0.63
1:3F:57:ILE:O	1:3F:61:ILE:N	2.21	0.63
1:3J:17:LYS:O	1:3J:21:GLY:N	2.32	0.63
1:4B:17:LYS:O	1:4B:21:GLY:N	2.32	0.63
1:5E:15:THR:O	1:5E:19:THR:N	2.27	0.63
1:5I:45:THR:HG1	1:5I:50:PHE:HE2	1.46	0.63
1:5N:17:LYS:O	1:5N:21:GLY:N	2.32	0.63
1:1C:53:GLY:HA2	1:1C:57:ILE:H	1.64	0.63
1:2E:17:LYS:O	1:2E:21:GLY:N	2.32	0.63
1:3O:15:THR:O	1:3O:19:THR:N	2.27	0.63
1:4D:17:LYS:O	1:4D:21:GLY:N	2.32	0.63
1:4H:17:LYS:O	1:4H:21:GLY:N	2.32	0.63
1:4O:53:GLY:HA2	1:4O:57:ILE:H	1.64	0.63
1:5A:17:LYS:O	1:5A:21:GLY:N	2.32	0.63
1:1A:17:LYS:O	1:1A:21:GLY:N	2.32	0.63
1:1C:17:LYS:O	1:1C:21:GLY:N	2.32	0.63
1:1F:15:THR:O	1:1F:19:THR:N	2.28	0.63
1:1F:57:ILE:O	1:1F:61:ILE:N	2.21	0.63
1:1H:53:GLY:HA2	1:1H:57:ILE:H	1.64	0.63
1:1I:57:ILE:O	1:1I:61:ILE:N	2.21	0.63
1:1O:53:GLY:HA2	1:1O:57:ILE:H	1.64	0.63
1:1O:57:ILE:O	1:1O:61:ILE:N	2.21	0.63
1:1D:9:MET:CE	1:2F:67:VAL:CG1	2.75	0.63
1:3K:45:THR:HG1	1:3K:50:PHE:HE2	1.46	0.63
1:4D:53:GLY:HA2	1:4D:57:ILE:H	1.64	0.63
1:3K:37:VAL:HG12	2:4L:101:6V6:C1	2.28	0.63
1:4N:17:LYS:O	1:4N:21:GLY:N	2.32	0.63
1:5C:17:LYS:O	1:5C:21:GLY:N	2.32	0.63
1:5E:17:LYS:O	1:5E:21:GLY:N	2.32	0.63
1:5F:53:GLY:HA2	1:5F:57:ILE:H	1.64	0.63
1:5H:17:LYS:O	1:5H:21:GLY:N	2.32	0.63
1:5M:45:THR:HG1	1:5M:50:PHE:HE2	1.47	0.63
1:1F:37:VAL:HG12	2:2G:101:6V6:C1	2.29	0.62
1:1K:53:GLY:HA2	1:1K:57:ILE:H	1.64	0.62
1:2C:70:LEU:C	1:2D:28:LYS:HD3	2.17	0.62
1:2I:45:THR:HG1	1:2I:50:PHE:HE2	1.47	0.62
1:2K:45:THR:HG1	1:2K:50:PHE:HE2	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2L:57:ILE:O	1:2L:61:ILE:N	2.21	0.62
1:3B:53:GLY:HA2	1:3B:57:ILE:H	1.64	0.62
1:4J:17:LYS:O	1:4J:21:GLY:N	2.32	0.62
1:4J:53:GLY:HA2	1:4J:57:ILE:H	1.64	0.62
1:5E:45:THR:HG1	1:5E:50:PHE:HE2	1.47	0.62
1:5K:53:GLY:HA2	1:5K:57:ILE:H	1.64	0.62
1:5L:17:LYS:O	1:5L:21:GLY:N	2.32	0.62
1:1I:45:THR:HG1	1:1I:50:PHE:HE2	1.47	0.62
1:1M:17:LYS:O	1:1M:21:GLY:N	2.32	0.62
1:1N:17:LYS:O	1:1N:21:GLY:N	2.32	0.62
1:2A:17:LYS:O	1:2A:21:GLY:N	2.32	0.62
1:1A:13:ASN:HD21	1:2C:63:VAL:HA	1.64	0.62
1:2G:53:GLY:HA2	1:2G:57:ILE:H	1.64	0.62
1:2J:53:GLY:HA2	1:2J:57:ILE:H	1.64	0.62
1:2K:53:GLY:HA2	1:2K:57:ILE:H	1.64	0.62
1:2O:15:THR:O	1:2O:19:THR:N	2.27	0.62
1:3K:25:SER:OG	1:3K:29:TRP:NE1	2.31	0.62
1:3M:53:GLY:HA2	1:3M:57:ILE:H	1.64	0.62
1:4A:53:GLY:HA2	1:4A:57:ILE:H	1.64	0.62
1:5I:17:LYS:O	1:5I:21:GLY:N	2.32	0.62
1:5N:53:GLY:HA2	1:5N:57:ILE:H	1.64	0.62
1:1F:45:THR:HG1	1:1F:50:PHE:HE2	1.47	0.62
1:1O:17:LYS:O	1:1O:21:GLY:N	2.32	0.62
1:2B:17:LYS:O	1:2B:21:GLY:N	2.32	0.62
1:2D:53:GLY:HA2	1:2D:57:ILE:H	1.64	0.62
1:2L:15:THR:O	1:2L:19:THR:N	2.27	0.62
1:2M:53:GLY:HA2	1:2M:57:ILE:H	1.64	0.62
1:2N:53:GLY:HA2	1:2N:57:ILE:H	1.64	0.62
1:3B:19:THR:O	1:3B:24:SER:OG	2.07	0.62
1:3F:13:ASN:ND2	1:4H:63:VAL:CB	2.61	0.62
1:3G:17:LYS:O	1:3G:21:GLY:N	2.32	0.62
1:3H:17:LYS:O	1:3H:21:GLY:N	2.32	0.62
1:3H:53:GLY:HA2	1:3H:57:ILE:H	1.64	0.62
1:3K:15:THR:O	1:3K:19:THR:N	2.27	0.62
1:4D:15:THR:O	1:4D:19:THR:N	2.27	0.62
1:4E:17:LYS:O	1:4E:21:GLY:N	2.32	0.62
1:4M:45:THR:HG1	1:4M:50:PHE:HE2	1.47	0.62
1:5A:53:GLY:HA2	1:5A:57:ILE:H	1.64	0.62
1:5B:57:ILE:O	1:5B:61:ILE:N	2.21	0.62
1:1E:67:VAL:HG13	1:5C:9:MET:HE2	1.80	0.62
1:5L:45:THR:HG1	1:5L:50:PHE:HE2	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5N:15:THR:O	1:5N:19:THR:N	2.27	0.62
1:5O:17:LYS:O	1:5O:21:GLY:N	2.32	0.62
1:1A:53:GLY:HA2	1:1A:57:ILE:H	1.64	0.62
1:1B:17:LYS:O	1:1B:21:GLY:N	2.32	0.62
1:2E:53:GLY:HA2	1:2E:57:ILE:H	1.64	0.62
1:2J:15:THR:O	1:2J:19:THR:N	2.27	0.62
1:3F:17:LYS:O	1:3F:21:GLY:N	2.32	0.62
1:3F:53:GLY:HA2	1:3F:57:ILE:H	1.65	0.62
1:4D:45:THR:HG1	1:4D:50:PHE:HE2	1.48	0.62
1:4L:53:GLY:HA2	1:4L:57:ILE:H	1.64	0.62
1:5B:53:GLY:HA2	1:5B:57:ILE:H	1.64	0.62
1:5C:53:GLY:HA2	1:5C:57:ILE:H	1.64	0.62
1:1M:53:GLY:HA2	1:1M:57:ILE:H	1.64	0.62
1:2B:53:GLY:HA2	1:2B:57:ILE:H	1.64	0.62
1:2F:13:ASN:ND2	1:3H:63:VAL:CB	2.61	0.62
1:3A:53:GLY:HA2	1:3A:57:ILE:H	1.64	0.62
1:3D:53:GLY:HA2	1:3D:57:ILE:H	1.64	0.62
1:3K:53:GLY:HA2	1:3K:57:ILE:H	1.64	0.62
1:3O:17:LYS:O	1:3O:21:GLY:N	2.32	0.62
1:3O:57:ILE:O	1:3O:61:ILE:N	2.21	0.62
1:4G:53:GLY:HA2	1:4G:57:ILE:H	1.64	0.62
1:5B:17:LYS:O	1:5B:21:GLY:N	2.32	0.62
1:5F:45:THR:HG1	1:5F:50:PHE:HE2	1.48	0.62
1:5M:17:LYS:O	1:5M:21:GLY:N	2.32	0.62
1:1H:57:ILE:O	1:1H:61:ILE:N	2.21	0.62
1:3I:53:GLY:HA2	1:3I:57:ILE:H	1.65	0.62
1:3L:53:GLY:HA2	1:3L:57:ILE:H	1.64	0.62
1:3O:53:GLY:HA2	1:3O:57:ILE:H	1.64	0.62
1:3A:9:MET:HE1	1:4C:67:VAL:HG13	1.80	0.62
1:4C:8:LEU:CB	1:4D:19:THR:HA	2.29	0.62
1:4M:17:LYS:O	1:4M:21:GLY:N	2.32	0.62
1:4N:57:ILE:O	1:4N:61:ILE:N	2.21	0.62
1:5A:57:ILE:O	1:5A:61:ILE:N	2.21	0.62
1:5F:17:LYS:O	1:5F:21:GLY:N	2.32	0.62
1:5I:53:GLY:HA2	1:5I:57:ILE:H	1.65	0.62
1:1F:53:GLY:HA2	1:1F:57:ILE:H	1.64	0.62
1:1G:17:LYS:O	1:1G:21:GLY:N	2.32	0.62
1:2F:17:LYS:O	1:2F:21:GLY:N	2.32	0.62
1:2K:57:ILE:O	1:2K:61:ILE:N	2.21	0.62
1:2M:15:THR:O	1:2M:19:THR:N	2.27	0.62
1:3L:17:LYS:O	1:3L:21:GLY:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4F:53:GLY:HA2	1:4F:57:ILE:H	1.64	0.62
1:5D:45:THR:HG1	1:5D:50:PHE:HE2	1.47	0.62
1:5K:17:LYS:O	1:5K:21:GLY:N	2.32	0.62
1:1E:53:GLY:HA2	1:1E:57:ILE:H	1.64	0.62
1:1J:17:LYS:O	1:1J:21:GLY:N	2.32	0.62
1:2K:17:LYS:O	1:2K:21:GLY:N	2.32	0.62
1:2N:15:THR:O	1:2N:19:THR:N	2.28	0.62
1:3C:17:LYS:O	1:3C:21:GLY:N	2.32	0.62
1:3D:19:THR:O	1:3D:24:SER:OG	2.07	0.62
1:3E:53:GLY:HA2	1:3E:57:ILE:H	1.64	0.62
1:3K:9:MET:CE	1:4N:58:SER:HG	2.03	0.62
1:4A:17:LYS:O	1:4A:21:GLY:N	2.32	0.62
1:4H:53:GLY:HA2	1:4H:57:ILE:H	1.64	0.62
1:4I:17:LYS:O	1:4I:21:GLY:N	2.32	0.62
1:4M:53:GLY:HA2	1:4M:57:ILE:H	1.64	0.62
1:5L:53:GLY:HA2	1:5L:57:ILE:H	1.64	0.62
1:5N:45:THR:HG1	1:5N:50:PHE:HE2	1.48	0.62
1:2H:17:LYS:O	1:2H:21:GLY:N	2.32	0.62
1:1K:13:ASN:ND2	1:2M:63:VAL:HG12	0.57	0.62
1:2N:17:LYS:O	1:2N:21:GLY:N	2.32	0.62
1:2O:45:THR:HG1	1:2O:50:PHE:HE2	1.47	0.62
1:3A:6:GLN:N	1:3B:15:THR:HG1	1.97	0.62
1:3E:57:ILE:O	1:3E:61:ILE:N	2.21	0.62
1:3I:17:LYS:O	1:3I:21:GLY:N	2.32	0.62
1:4B:9:MET:HE1	1:5D:67:VAL:CG1	2.30	0.62
1:4C:53:GLY:HA2	1:4C:57:ILE:H	1.64	0.62
1:5M:53:GLY:HA2	1:5M:57:ILE:H	1.64	0.62
1:1D:17:LYS:O	1:1D:21:GLY:N	2.32	0.62
1:1E:45:THR:HG1	1:1E:50:PHE:HE2	1.47	0.62
1:2A:53:GLY:HA2	1:2A:57:ILE:H	1.64	0.62
1:2D:17:LYS:O	1:2D:21:GLY:N	2.32	0.62
1:2G:15:THR:O	1:2G:19:THR:N	2.27	0.62
1:5A:45:THR:HG1	1:5A:50:PHE:HE2	1.48	0.62
1:5H:53:GLY:HA2	1:5H:57:ILE:H	1.64	0.62
1:1D:53:GLY:HA2	1:1D:57:ILE:H	1.64	0.61
1:1I:53:GLY:HA2	1:1I:57:ILE:H	1.64	0.61
1:1J:53:GLY:HA2	1:1J:57:ILE:H	1.64	0.61
1:1L:53:GLY:HA2	1:1L:57:ILE:H	1.64	0.61
1:2C:53:GLY:HA2	1:2C:57:ILE:H	1.64	0.61
1:3E:9:MET:HE1	1:4G:67:VAL:CG1	2.29	0.61
1:3K:57:ILE:O	1:3K:61:ILE:N	2.21	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3N:45:THR:HG1	1:3N:50:PHE:HE2	1.47	0.61
1:4G:17:LYS:O	1:4G:21:GLY:N	2.32	0.61
1:5E:53:GLY:HA2	1:5E:57:ILE:H	1.64	0.61
1:4I:13:ASN:CB	1:5K:63:VAL:CG1	2.54	0.61
1:1C:45:THR:HG1	1:1C:50:PHE:HE2	1.48	0.61
1:2H:53:GLY:HA2	1:2H:57:ILE:H	1.64	0.61
1:2J:13:ASN:OD1	1:3L:63:VAL:HA	2.00	0.61
1:4G:57:ILE:O	1:4G:61:ILE:N	2.21	0.61
1:4I:53:GLY:HA2	1:4I:57:ILE:H	1.65	0.61
1:4K:17:LYS:O	1:4K:21:GLY:N	2.32	0.61
1:4N:53:GLY:HA2	1:4N:57:ILE:H	1.64	0.61
1:5D:53:GLY:HA2	1:5D:57:ILE:H	1.64	0.61
1:1I:15:THR:O	1:1I:19:THR:N	2.27	0.61
1:3C:53:GLY:HA2	1:3C:57:ILE:H	1.64	0.61
1:3J:53:GLY:HA2	1:3J:57:ILE:H	1.64	0.61
1:1D:67:VAL:CG1	1:5B:9:MET:CE	2.78	0.61
1:1G:57:ILE:O	1:1G:61:ILE:N	2.21	0.61
1:4B:53:GLY:HA2	1:4B:57:ILE:H	1.64	0.61
1:4L:15:THR:O	1:4L:19:THR:N	2.27	0.61
1:5A:15:THR:O	1:5A:19:THR:N	2.27	0.61
1:5G:53:GLY:HA2	1:5G:57:ILE:H	1.64	0.61
1:1G:53:GLY:HA2	1:1G:57:ILE:H	1.64	0.61
1:2B:57:ILE:O	1:2B:61:ILE:N	2.21	0.61
1:2F:53:GLY:HA2	1:2F:57:ILE:H	1.64	0.61
1:2J:57:ILE:O	1:2J:61:ILE:N	2.21	0.61
1:3C:8:LEU:CB	1:3D:19:THR:HA	2.29	0.61
1:5B:45:THR:HG1	1:5B:50:PHE:HE2	1.47	0.61
1:5C:19:THR:O	1:5C:24:SER:OG	2.07	0.61
1:5C:45:THR:HG1	1:5C:50:PHE:HE2	1.46	0.61
1:4A:9:MET:HE1	1:5C:67:VAL:HG13	1.79	0.61
1:5O:15:THR:O	1:5O:19:THR:N	2.27	0.61
1:3G:53:GLY:HA2	1:3G:57:ILE:H	1.64	0.61
1:5L:15:THR:O	1:5L:19:THR:N	2.28	0.61
1:5O:53:GLY:HA2	1:5O:57:ILE:H	1.64	0.61
1:1B:53:GLY:HA2	1:1B:57:ILE:H	1.64	0.61
1:2E:15:THR:O	1:2E:19:THR:N	2.28	0.61
1:3N:53:GLY:HA2	1:3N:57:ILE:H	1.64	0.61
1:4K:53:GLY:HA2	1:4K:57:ILE:H	1.64	0.61
1:4O:15:THR:O	1:4O:19:THR:N	2.28	0.61
1:3G:15:THR:O	1:3G:19:THR:N	2.27	0.61
1:4E:53:GLY:HA2	1:4E:57:ILE:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4L:9:MET:SD	1:5O:59:VAL:HG13	2.40	0.61
1:5I:57:ILE:O	1:5I:61:ILE:N	2.21	0.61
1:5J:53:GLY:HA2	1:5J:57:ILE:H	1.64	0.61
1:2A:15:THR:O	1:2A:19:THR:N	2.27	0.61
1:3N:15:THR:O	1:3N:19:THR:N	2.28	0.61
1:4C:15:THR:O	1:4C:19:THR:N	2.27	0.61
1:1H:45:THR:HG1	1:1H:50:PHE:HE2	1.49	0.61
1:1N:15:THR:O	1:1N:19:THR:N	2.28	0.61
1:2C:15:THR:O	1:2C:19:THR:N	2.27	0.61
1:2O:53:GLY:HA2	1:2O:57:ILE:H	1.64	0.61
1:3I:57:ILE:O	1:3I:61:ILE:N	2.21	0.61
1:4B:15:THR:O	1:4B:19:THR:N	2.27	0.61
1:1L:15:THR:O	1:1L:19:THR:N	2.27	0.60
1:1N:53:GLY:HA2	1:1N:57:ILE:H	1.64	0.60
1:2I:53:GLY:HA2	1:2I:57:ILE:H	1.64	0.60
1:2I:57:ILE:O	1:2I:61:ILE:N	2.21	0.60
1:5J:45:THR:HG1	1:5J:50:PHE:HE2	1.48	0.60
1:1C:15:THR:O	1:1C:19:THR:N	2.28	0.60
1:3L:9:MET:SD	1:4O:59:VAL:HG13	2.40	0.60
1:3N:57:ILE:O	1:3N:61:ILE:N	2.21	0.60
1:4G:45:THR:HG1	1:4G:50:PHE:HE2	1.49	0.60
1:1A:19:THR:O	1:1A:24:SER:OG	2.07	0.60
1:2J:45:THR:HG1	1:2J:50:PHE:HE2	1.49	0.60
1:2L:9:MET:SD	1:3O:59:VAL:HG13	2.40	0.60
1:3E:15:THR:O	1:3E:19:THR:N	2.27	0.60
1:4J:15:THR:O	1:4J:19:THR:N	2.27	0.60
1:5K:57:ILE:O	1:5K:61:ILE:N	2.21	0.60
1:4J:13:ASN:OD1	1:5L:63:VAL:HA	2.00	0.60
1:5O:45:THR:HG1	1:5O:50:PHE:HE2	1.49	0.60
1:2H:57:ILE:O	1:2H:61:ILE:N	2.21	0.60
1:2L:53:GLY:HA2	1:2L:57:ILE:H	1.64	0.60
1:3B:15:THR:O	1:3B:19:THR:N	2.27	0.60
1:4H:57:ILE:O	1:4H:61:ILE:N	2.21	0.60
1:5D:15:THR:O	1:5D:19:THR:N	2.27	0.60
1:1B:57:ILE:O	1:1B:61:ILE:N	2.21	0.60
1:1E:57:ILE:O	1:1E:61:ILE:N	2.21	0.60
1:2C:8:LEU:CB	1:2D:19:THR:HA	2.29	0.60
1:2L:13:ASN:OD1	1:3N:63:VAL:HG12	1.96	0.60
1:1L:63:VAL:CB	1:5J:13:ASN:HD21	1.98	0.60
1:4L:13:ASN:OD1	1:5N:63:VAL:HG12	1.96	0.60
1:1D:63:VAL:HG12	1:5B:13:ASN:HD22	0.78	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2D:15:THR:O	1:2D:19:THR:N	2.27	0.60
1:2D:57:ILE:O	1:2D:61:ILE:N	2.21	0.60
1:3J:13:ASN:OD1	1:4L:63:VAL:HA	2.00	0.60
1:3J:45:THR:HG1	1:3J:50:PHE:HE2	1.49	0.60
1:3L:45:THR:HG1	1:3L:50:PHE:HE2	1.49	0.60
1:4B:57:ILE:O	1:4B:61:ILE:N	2.21	0.60
1:4N:45:THR:HG1	1:4N:50:PHE:HE2	1.49	0.60
1:1E:15:THR:O	1:1E:19:THR:N	2.27	0.60
1:2A:57:ILE:O	1:2A:61:ILE:N	2.21	0.60
1:4O:45:THR:HG1	1:4O:50:PHE:HE2	1.49	0.60
1:1C:60:PHE:CE2	1:1D:39:ALA:HB2	2.36	0.60
1:2C:13:ASN:HD21	1:3E:63:VAL:HA	1.67	0.60
1:3M:45:THR:HG1	1:3M:50:PHE:HE2	1.49	0.60
1:3E:13:ASN:HD22	1:4G:63:VAL:HG12	0.77	0.60
1:1C:8:LEU:CB	1:1D:19:THR:HA	2.29	0.59
1:1D:45:THR:HG1	1:1D:50:PHE:HE2	1.48	0.59
1:3F:9:MET:CE	1:4H:67:VAL:HG11	2.17	0.59
1:4E:13:ASN:HD22	1:5G:63:VAL:HG12	0.77	0.59
1:1M:59:VAL:CG1	1:5J:9:MET:SD	2.89	0.59
1:2B:15:THR:O	1:2B:19:THR:N	2.27	0.59
1:2I:15:THR:O	1:2I:19:THR:N	2.27	0.59
1:4C:13:ASN:HD21	1:5E:63:VAL:HA	1.67	0.59
1:4I:15:THR:O	1:4I:19:THR:N	2.27	0.59
1:5N:57:ILE:O	1:5N:61:ILE:N	2.21	0.59
1:2G:9:MET:HE3	1:3I:67:VAL:CG1	1.91	0.59
1:3M:57:ILE:O	1:3M:61:ILE:N	2.21	0.59
1:3C:13:ASN:HD21	1:4E:63:VAL:HA	1.67	0.59
1:4L:52:ALA:O	1:4L:56:ILE:N	2.27	0.59
1:1G:15:THR:O	1:1G:19:THR:N	2.27	0.59
1:2F:15:THR:O	1:2F:19:THR:N	2.27	0.59
1:2N:52:ALA:O	1:2N:56:ILE:N	2.27	0.59
1:1M:9:MET:HE3	1:2O:67:VAL:HG13	1.83	0.59
1:3H:15:THR:O	1:3H:19:THR:N	2.28	0.59
1:2F:52:ALA:O	1:2F:56:ILE:N	2.27	0.59
1:2F:57:ILE:O	1:2F:61:ILE:N	2.21	0.59
1:3C:60:PHE:CE2	1:3D:39:ALA:HB2	2.36	0.59
1:4J:57:ILE:O	1:4J:61:ILE:N	2.21	0.59
1:3L:13:ASN:OD1	1:4N:63:VAL:HG12	1.96	0.59
1:2E:13:ASN:HD22	1:3G:63:VAL:HG12	0.77	0.59
1:3J:15:THR:O	1:3J:19:THR:N	2.27	0.59
1:2L:9:MET:HE1	1:3O:58:SER:OG	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4B:45:THR:HG1	1:4B:50:PHE:HE2	1.49	0.59
1:5C:60:PHE:CE2	1:5D:39:ALA:HB2	2.36	0.59
1:5O:52:ALA:O	1:5O:56:ILE:N	2.27	0.59
1:1D:57:ILE:O	1:1D:61:ILE:N	2.21	0.59
1:1H:15:THR:O	1:1H:19:THR:N	2.27	0.59
1:1N:57:ILE:O	1:1N:61:ILE:N	2.21	0.59
1:1O:15:THR:O	1:1O:19:THR:N	2.27	0.59
1:3N:8:LEU:HB2	1:3O:19:THR:HA	1.85	0.59
1:4F:15:THR:O	1:4F:19:THR:N	2.28	0.59
1:4H:15:THR:O	1:4H:19:THR:N	2.27	0.59
1:1C:67:VAL:HG13	1:5A:9:MET:HE2	1.83	0.59
1:5J:52:ALA:O	1:5J:56:ILE:N	2.27	0.59
1:5J:57:ILE:O	1:5J:61:ILE:N	2.21	0.59
1:1M:52:ALA:O	1:1M:56:ILE:N	2.27	0.59
1:3I:52:ALA:O	1:3I:56:ILE:N	2.27	0.59
1:5L:52:ALA:O	1:5L:56:ILE:N	2.27	0.59
1:1C:52:ALA:O	1:1C:56:ILE:N	2.27	0.59
1:2B:52:ALA:O	1:2B:56:ILE:N	2.27	0.59
1:3L:57:ILE:O	1:3L:61:ILE:N	2.21	0.59
1:3I:13:ASN:CB	1:4K:63:VAL:CG1	2.54	0.59
1:5D:52:ALA:O	1:5D:56:ILE:N	2.27	0.59
1:1K:63:VAL:CG1	1:5I:13:ASN:HB3	2.31	0.59
1:1A:15:THR:O	1:1A:19:THR:N	2.27	0.58
1:1C:57:ILE:O	1:1C:61:ILE:N	2.21	0.58
1:1G:52:ALA:O	1:1G:56:ILE:N	2.27	0.58
1:1K:57:ILE:O	1:1K:61:ILE:N	2.21	0.58
1:2C:60:PHE:CE2	1:2D:39:ALA:HB2	2.36	0.58
1:3C:57:ILE:O	1:3C:61:ILE:N	2.21	0.58
1:4C:13:ASN:ND2	1:5E:63:VAL:CB	2.65	0.58
1:4C:9:MET:HE1	1:5E:67:VAL:HG11	1.85	0.58
1:2G:57:ILE:O	1:2G:61:ILE:N	2.21	0.58
1:2I:13:ASN:CB	1:3K:63:VAL:CG1	2.54	0.58
1:2K:9:MET:HE1	1:3N:58:SER:CB	2.20	0.58
1:4A:45:THR:HG1	1:4A:50:PHE:HE2	1.49	0.58
1:4I:52:ALA:O	1:4I:56:ILE:N	2.27	0.58
1:3L:15:THR:O	1:3L:19:THR:N	2.27	0.58
1:4K:15:THR:O	1:4K:19:THR:N	2.27	0.58
1:4D:52:ALA:O	1:4D:56:ILE:N	2.27	0.58
1:4M:57:ILE:O	1:4M:61:ILE:N	2.21	0.58
1:5M:15:THR:O	1:5M:19:THR:N	2.27	0.58
1:1L:58:SER:CB	1:5I:9:MET:HE2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1O:52:ALA:O	1:1O:56:ILE:N	2.27	0.58
1:2A:9:MET:CE	1:3C:67:VAL:CG1	2.81	0.58
1:1H:9:MET:CE	1:2J:67:VAL:HG11	1.83	0.58
1:2N:8:LEU:HB2	1:2O:19:THR:HA	1.85	0.58
1:3A:15:THR:O	1:3A:19:THR:N	2.27	0.58
1:3O:52:ALA:O	1:3O:56:ILE:N	2.27	0.58
1:5O:57:ILE:O	1:5O:61:ILE:N	2.21	0.58
1:1K:15:THR:O	1:1K:19:THR:N	2.27	0.58
1:3C:52:ALA:O	1:3C:56:ILE:N	2.27	0.58
1:4I:9:MET:HE1	1:5K:67:VAL:HG11	1.85	0.58
1:4K:57:ILE:O	1:4K:61:ILE:N	2.21	0.58
1:1M:63:VAL:CB	1:5K:13:ASN:ND2	2.66	0.58
1:2D:52:ALA:O	1:2D:56:ILE:N	2.27	0.58
1:4F:52:ALA:O	1:4F:56:ILE:N	2.27	0.58
1:4G:15:THR:O	1:4G:19:THR:N	2.28	0.58
1:1L:57:ILE:O	1:1L:61:ILE:N	2.21	0.58
1:2N:57:ILE:O	1:2N:61:ILE:N	2.21	0.58
1:3E:52:ALA:O	1:3E:56:ILE:N	2.27	0.58
1:3M:15:THR:O	1:3M:19:THR:N	2.27	0.58
1:5C:15:THR:O	1:5C:19:THR:N	2.27	0.58
1:1M:63:VAL:HG12	1:5K:13:ASN:ND2	2.18	0.58
1:1D:52:ALA:O	1:1D:56:ILE:N	2.27	0.58
1:2C:9:MET:HE1	1:3E:67:VAL:HG11	1.83	0.58
1:4F:57:ILE:O	1:4F:61:ILE:N	2.21	0.58
1:4N:15:THR:O	1:4N:19:THR:N	2.28	0.58
1:4O:57:ILE:O	1:4O:61:ILE:N	2.21	0.58
1:3B:57:ILE:O	1:3B:61:ILE:N	2.21	0.58
1:3B:57:ILE:HD11	1:3C:42:TYR:CD2	2.39	0.58
1:3D:57:ILE:O	1:3D:61:ILE:N	2.21	0.57
1:1A:52:ALA:O	1:1A:56:ILE:N	2.27	0.57
1:1I:58:SER:OG	1:5F:9:MET:CE	2.52	0.57
1:1N:8:LEU:HB2	1:1O:19:THR:HA	1.85	0.57
1:2E:9:MET:HE1	1:3G:67:VAL:CG1	2.34	0.57
1:3J:57:ILE:O	1:3J:61:ILE:N	2.21	0.57
1:3A:52:ALA:O	1:3A:56:ILE:N	2.27	0.57
1:4A:52:ALA:O	1:4A:56:ILE:N	2.27	0.57
1:4J:37:VAL:HG12	2:5K:101:6V6:C2	2.34	0.57
1:1C:12:GLY:O	1:1C:14:THR:HG23	2.05	0.57
1:3H:12:GLY:O	1:3H:14:THR:HG23	2.05	0.57
1:3J:12:GLY:O	1:3J:14:THR:HG23	2.05	0.57
1:4A:57:ILE:O	1:4A:61:ILE:N	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4N:8:LEU:HB2	1:4O:19:THR:HA	1.85	0.57
1:5M:12:GLY:O	1:5M:14:THR:HG23	2.05	0.57
1:1E:12:GLY:O	1:1E:14:THR:HG23	2.05	0.57
1:1N:12:GLY:O	1:1N:14:THR:HG23	2.05	0.57
1:3D:9:MET:CE	1:4F:67:VAL:CG1	2.81	0.57
1:3F:15:THR:O	1:3F:19:THR:N	2.27	0.57
1:3G:57:ILE:O	1:3G:61:ILE:N	2.21	0.57
1:4E:57:ILE:O	1:4E:61:ILE:N	2.21	0.57
1:4I:12:GLY:O	1:4I:14:THR:HG23	2.05	0.57
1:3J:37:VAL:HG12	2:4K:101:6V6:C2	2.34	0.57
1:5B:12:GLY:O	1:5B:14:THR:HG23	2.05	0.57
1:5O:12:GLY:O	1:5O:14:THR:HG23	2.05	0.57
1:1A:12:GLY:O	1:1A:14:THR:HG23	2.05	0.57
1:1M:15:THR:O	1:1M:19:THR:N	2.27	0.57
1:2G:12:GLY:O	1:2G:14:THR:HG23	2.05	0.57
1:2I:12:GLY:O	1:2I:14:THR:HG23	2.05	0.57
1:3F:12:GLY:O	1:3F:14:THR:HG23	2.05	0.57
1:3L:12:GLY:O	1:3L:14:THR:HG23	2.05	0.57
1:4K:12:GLY:O	1:4K:14:THR:HG23	2.05	0.57
1:4N:12:GLY:O	1:4N:14:THR:HG23	2.05	0.57
1:4F:9:MET:HE1	1:5H:67:VAL:HG11	1.79	0.57
1:5K:12:GLY:O	1:5K:14:THR:HG23	2.05	0.57
1:5K:15:THR:O	1:5K:19:THR:N	2.27	0.57
1:5N:8:LEU:HB2	1:5O:19:THR:HA	1.85	0.57
1:1G:12:GLY:O	1:1G:14:THR:HG23	2.05	0.57
1:1L:9:MET:HE2	1:2N:67:VAL:CG1	2.13	0.57
1:2J:52:ALA:O	1:2J:56:ILE:N	2.27	0.57
1:3C:13:ASN:ND2	1:4E:63:VAL:CB	2.65	0.57
1:2J:37:VAL:HG12	2:3K:101:6V6:C2	2.34	0.57
1:4E:15:THR:O	1:4E:19:THR:N	2.28	0.57
1:5A:70:LEU:C	1:5B:28:LYS:HD3	2.25	0.57
1:5D:12:GLY:O	1:5D:14:THR:HG23	2.05	0.57
1:2F:12:GLY:O	1:2F:14:THR:HG23	2.05	0.57
1:2D:12:GLY:O	1:2D:14:THR:HG23	2.05	0.57
1:3M:52:ALA:O	1:3M:56:ILE:N	2.27	0.57
1:4B:34:GLU:OE2	1:4C:46:LYS:NZ	2.38	0.57
1:4L:12:GLY:O	1:4L:14:THR:HG23	2.05	0.57
1:5G:52:ALA:O	1:5G:56:ILE:N	2.27	0.57
1:5H:57:ILE:O	1:5H:61:ILE:N	2.21	0.57
1:1J:52:ALA:O	1:1J:56:ILE:N	2.27	0.57
1:2E:12:GLY:O	1:2E:14:THR:HG23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2E:57:ILE:O	1:2E:61:ILE:N	2.21	0.57
1:2G:52:ALA:O	1:2G:56:ILE:N	2.27	0.57
1:3A:70:LEU:C	1:3B:28:LYS:HD3	2.25	0.57
1:3G:52:ALA:O	1:3G:56:ILE:N	2.27	0.57
1:4A:12:GLY:O	1:4A:14:THR:HG23	2.05	0.57
1:4A:70:LEU:C	1:4B:28:LYS:HD3	2.25	0.57
1:4B:12:GLY:O	1:4B:14:THR:HG23	2.05	0.57
1:4B:57:ILE:HD11	1:4C:42:TYR:CD2	2.39	0.57
1:5I:12:GLY:O	1:5I:14:THR:HG23	2.05	0.57
1:1A:70:LEU:C	1:1B:28:LYS:HD3	2.25	0.56
1:1I:12:GLY:O	1:1I:14:THR:HG23	2.05	0.56
1:3N:12:GLY:O	1:3N:14:THR:HG23	2.05	0.56
1:4M:12:GLY:O	1:4M:14:THR:HG23	2.05	0.56
1:5A:12:GLY:O	1:5A:14:THR:HG23	2.05	0.56
1:2H:12:GLY:O	1:2H:14:THR:HG23	2.05	0.56
1:2N:12:GLY:O	1:2N:14:THR:HG23	2.05	0.56
1:3B:34:GLU:OE2	1:3C:46:LYS:NZ	2.37	0.56
1:2D:9:MET:CE	1:3F:67:VAL:CG1	2.81	0.56
1:3L:9:MET:HE3	1:4O:58:SER:HG	1.68	0.56
1:5A:52:ALA:O	1:5A:56:ILE:N	2.27	0.56
1:1L:12:GLY:O	1:1L:14:THR:HG23	2.05	0.56
1:2C:12:GLY:O	1:2C:14:THR:HG23	2.05	0.56
1:2K:12:GLY:O	1:2K:14:THR:HG23	2.05	0.56
1:3A:12:GLY:O	1:3A:14:THR:HG23	2.05	0.56
1:3D:12:GLY:O	1:3D:14:THR:HG23	2.05	0.56
1:4J:12:GLY:O	1:4J:14:THR:HG23	2.05	0.56
1:4M:52:ALA:O	1:4M:56:ILE:N	2.27	0.56
1:1F:12:GLY:O	1:1F:14:THR:HG23	2.05	0.56
1:1L:52:ALA:O	1:1L:56:ILE:N	2.27	0.56
1:2A:12:GLY:O	1:2A:14:THR:HG23	2.05	0.56
1:2B:57:ILE:HD11	1:2C:42:TYR:CD2	2.39	0.56
1:2J:12:GLY:O	1:2J:14:THR:HG23	2.05	0.56
1:2L:12:GLY:O	1:2L:14:THR:HG23	2.05	0.56
1:3J:52:ALA:O	1:3J:56:ILE:N	2.27	0.56
1:3K:12:GLY:O	1:3K:14:THR:HG23	2.05	0.56
1:4C:60:PHE:CE2	1:4D:39:ALA:HB2	2.36	0.56
1:5L:12:GLY:O	1:5L:14:THR:HG23	2.05	0.56
1:2B:34:GLU:OE2	1:2C:46:LYS:NZ	2.37	0.56
1:3B:9:MET:HE1	1:4D:67:VAL:CG1	2.36	0.56
1:3G:12:GLY:O	1:3G:14:THR:HG23	2.05	0.56
1:4D:12:GLY:O	1:4D:14:THR:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4G:12:GLY:O	1:4G:14:THR:HG23	2.05	0.56
1:4O:12:GLY:O	1:4O:14:THR:HG23	2.05	0.56
1:5F:12:GLY:O	1:5F:14:THR:HG23	2.05	0.56
1:5G:12:GLY:O	1:5G:14:THR:HG23	2.05	0.56
1:5I:52:ALA:O	1:5I:56:ILE:N	2.27	0.56
1:1H:67:VAL:HG13	1:5F:9:MET:HE2	1.87	0.56
1:1K:12:GLY:O	1:1K:14:THR:HG23	2.05	0.56
1:1O:12:GLY:O	1:1O:14:THR:HG23	2.05	0.56
1:2I:9:MET:HE2	1:3K:67:VAL:HG11	1.80	0.56
1:4F:13:ASN:ND2	1:5H:63:VAL:CB	2.61	0.56
1:4H:12:GLY:O	1:4H:14:THR:HG23	2.05	0.56
1:4H:52:ALA:O	1:4H:56:ILE:N	2.27	0.56
1:5M:52:ALA:O	1:5M:56:ILE:N	2.27	0.56
1:1F:9:MET:HE1	1:2H:67:VAL:HG13	1.67	0.56
1:4E:12:GLY:O	1:4E:14:THR:HG23	2.05	0.56
1:4F:12:GLY:O	1:4F:14:THR:HG23	2.05	0.56
1:4J:52:ALA:O	1:4J:56:ILE:N	2.27	0.56
1:1B:12:GLY:O	1:1B:14:THR:HG23	2.05	0.56
1:1B:57:ILE:HD11	1:1C:42:TYR:CD2	2.39	0.56
1:1D:12:GLY:O	1:1D:14:THR:HG23	2.05	0.56
1:2B:12:GLY:O	1:2B:14:THR:HG23	2.05	0.56
1:1H:13:ASN:HD21	1:2J:63:VAL:HA	1.70	0.56
1:3A:57:ILE:O	1:3A:61:ILE:N	2.21	0.56
1:2C:13:ASN:HD22	1:3E:63:VAL:HG12	0.73	0.56
1:3I:12:GLY:O	1:3I:14:THR:HG23	2.05	0.56
1:2H:15:THR:O	1:2H:19:THR:N	2.27	0.56
1:3H:57:ILE:O	1:3H:61:ILE:N	2.21	0.56
1:4C:57:ILE:O	1:4C:61:ILE:N	2.21	0.56
1:5C:12:GLY:O	1:5C:14:THR:HG23	2.05	0.56
1:5N:12:GLY:O	1:5N:14:THR:HG23	2.05	0.56
1:1M:12:GLY:O	1:1M:14:THR:HG23	2.05	0.56
1:3B:12:GLY:O	1:3B:14:THR:HG23	2.05	0.56
1:3L:13:ASN:CB	1:4N:63:VAL:CG1	2.78	0.56
1:5H:12:GLY:O	1:5H:14:THR:HG23	2.05	0.56
1:4L:13:ASN:CB	1:5N:63:VAL:CG1	2.79	0.56
1:2A:70:LEU:C	1:2B:28:LYS:HD3	2.25	0.56
1:2M:12:GLY:O	1:2M:14:THR:HG23	2.05	0.56
1:3O:12:GLY:O	1:3O:14:THR:HG23	2.05	0.56
1:5E:12:GLY:O	1:5E:14:THR:HG23	2.05	0.56
1:1D:15:THR:O	1:1D:19:THR:N	2.27	0.55
1:1J:12:GLY:O	1:1J:14:THR:HG23	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4D:34:GLU:OE1	1:4E:46:LYS:NZ	2.39	0.55
1:5B:34:GLU:OE2	1:5C:46:LYS:NZ	2.37	0.55
1:5J:12:GLY:O	1:5J:14:THR:HG23	2.05	0.55
1:1B:15:THR:O	1:1B:19:THR:N	2.27	0.55
1:1I:9:MET:HB3	1:2K:67:VAL:HG22	1.87	0.55
1:2O:57:ILE:O	1:2O:61:ILE:N	2.21	0.55
1:4C:12:GLY:O	1:4C:14:THR:HG23	2.05	0.55
1:1H:12:GLY:O	1:1H:14:THR:HG23	2.05	0.55
1:1J:15:THR:O	1:1J:19:THR:N	2.27	0.55
1:1M:57:ILE:O	1:1M:61:ILE:N	2.21	0.55
1:2C:13:ASN:ND2	1:3E:63:VAL:CB	2.65	0.55
1:2O:12:GLY:O	1:2O:14:THR:HG23	2.05	0.55
1:5F:15:THR:O	1:5F:19:THR:N	2.27	0.55
1:3C:12:GLY:O	1:3C:14:THR:HG23	2.05	0.55
1:3E:12:GLY:O	1:3E:14:THR:HG23	2.05	0.55
1:3M:12:GLY:O	1:3M:14:THR:HG23	2.05	0.55
1:3G:37:VAL:CG1	2:4H:101:6V6:C1	2.78	0.55
1:1D:63:VAL:HA	1:5B:13:ASN:HD21	1.72	0.55
1:5K:52:ALA:O	1:5K:56:ILE:N	2.27	0.55
1:1A:57:ILE:O	1:1A:61:ILE:N	2.21	0.55
1:3C:13:ASN:HD22	1:4E:63:VAL:HG12	0.73	0.55
1:4C:13:ASN:HD22	1:5E:63:VAL:HG12	0.73	0.55
1:1B:52:ALA:O	1:1B:56:ILE:N	2.27	0.55
1:1B:34:GLU:OE2	1:1C:46:LYS:NZ	2.38	0.55
1:1H:9:MET:HB3	1:2J:67:VAL:HG22	1.89	0.55
1:2K:15:THR:O	1:2K:19:THR:N	2.27	0.55
1:1N:52:ALA:O	1:1N:56:ILE:N	2.27	0.55
1:4A:15:THR:O	1:4A:19:THR:N	2.28	0.55
1:5B:57:ILE:HD11	1:5C:42:TYR:CD2	2.39	0.55
1:2M:52:ALA:O	1:2M:56:ILE:N	2.27	0.55
1:4D:57:ILE:O	1:4D:61:ILE:N	2.21	0.55
1:4B:52:ALA:O	1:4B:56:ILE:N	2.27	0.54
1:4L:57:ILE:O	1:4L:61:ILE:N	2.21	0.54
1:5B:34:GLU:OE1	1:5C:46:LYS:NZ	2.39	0.54
1:1E:52:ALA:O	1:1E:56:ILE:N	2.27	0.54
1:2E:52:ALA:O	1:2E:56:ILE:N	2.27	0.54
1:5E:52:ALA:O	1:5E:56:ILE:N	2.27	0.54
1:1H:52:ALA:O	1:1H:56:ILE:N	2.27	0.54
1:2B:26:VAL:O	1:2B:29:TRP:HB2	2.08	0.54
1:5G:57:ILE:O	1:5G:61:ILE:N	2.21	0.54
1:4K:9:MET:HE1	1:5N:58:SER:CB	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:26:VAL:O	1:1A:29:TRP:HB2	2.08	0.54
1:2L:9:MET:HE1	1:3O:58:SER:CB	2.38	0.54
1:4F:26:VAL:O	1:4F:29:TRP:HB2	2.08	0.54
1:4I:26:VAL:O	1:4I:29:TRP:HB2	2.08	0.54
1:5I:26:VAL:O	1:5I:29:TRP:HB2	2.08	0.54
1:1M:26:VAL:O	1:1M:29:TRP:HB2	2.08	0.54
1:2D:26:VAL:O	1:2D:29:TRP:HB2	2.08	0.54
1:3C:26:VAL:O	1:3C:29:TRP:HB2	2.08	0.54
1:3D:52:ALA:O	1:3D:56:ILE:N	2.27	0.54
1:3E:26:VAL:O	1:3E:29:TRP:HB2	2.08	0.54
1:3G:26:VAL:O	1:3G:29:TRP:HB2	2.08	0.54
1:4G:26:VAL:O	1:4G:29:TRP:HB2	2.08	0.54
1:4G:37:VAL:CG1	2:5H:101:6V6:C1	2.78	0.54
1:2C:26:VAL:O	1:2C:29:TRP:HB2	2.08	0.54
1:2O:26:VAL:O	1:2O:29:TRP:HB2	2.08	0.54
1:3D:26:VAL:O	1:3D:29:TRP:HB2	2.08	0.54
1:1B:26:VAL:O	1:1B:29:TRP:HB2	2.08	0.54
1:1D:67:VAL:HG11	1:5B:9:MET:HE1	1.90	0.54
1:2E:26:VAL:O	1:2E:29:TRP:HB2	2.08	0.54
1:2N:26:VAL:O	1:2N:29:TRP:HB2	2.08	0.54
1:3C:15:THR:O	1:3C:19:THR:N	2.28	0.54
1:3F:26:VAL:O	1:3F:29:TRP:HB2	2.08	0.54
1:3O:25:SER:OG	1:3O:29:TRP:NE1	2.31	0.54
1:5B:52:ALA:O	1:5B:56:ILE:N	2.27	0.54
1:5J:26:VAL:O	1:5J:29:TRP:HB2	2.08	0.54
1:1L:26:VAL:O	1:1L:29:TRP:HB2	2.08	0.54
1:2A:26:VAL:O	1:2A:29:TRP:HB2	2.08	0.54
1:2A:52:ALA:O	1:2A:56:ILE:N	2.27	0.54
1:3H:26:VAL:O	1:3H:29:TRP:HB2	2.08	0.54
1:5L:26:VAL:O	1:5L:29:TRP:HB2	2.08	0.54
1:1J:26:VAL:O	1:1J:29:TRP:HB2	2.08	0.54
1:4H:26:VAL:O	1:4H:29:TRP:HB2	2.08	0.54
1:4J:26:VAL:O	1:4J:29:TRP:HB2	2.08	0.54
1:5G:26:VAL:O	1:5G:29:TRP:HB2	2.08	0.54
1:5M:26:VAL:O	1:5M:29:TRP:HB2	2.08	0.54
1:1B:16:VAL:HG21	1:1C:29:TRP:CZ2	2.43	0.54
1:2M:26:VAL:O	1:2M:29:TRP:HB2	2.08	0.54
1:3B:26:VAL:O	1:3B:29:TRP:HB2	2.08	0.54
1:5M:57:ILE:O	1:5M:61:ILE:N	2.21	0.54
1:1J:9:MET:CE	1:2L:67:VAL:HG12	2.16	0.53
1:1O:26:VAL:O	1:1O:29:TRP:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3O:26:VAL:O	1:3O:29:TRP:HB2	2.08	0.53
1:4D:64:GLY:HA3	1:4E:54:PHE:HE1	1.73	0.53
1:5E:45:THR:HG21	1:5E:50:PHE:CZ	2.44	0.53
1:1F:45:THR:HG21	1:1F:50:PHE:CZ	2.44	0.53
1:1I:26:VAL:O	1:1I:29:TRP:HB2	2.08	0.53
1:1I:58:SER:CB	1:5F:9:MET:SD	2.96	0.53
1:2L:26:VAL:O	1:2L:29:TRP:HB2	2.08	0.53
1:3B:52:ALA:O	1:3B:56:ILE:N	2.27	0.53
1:3L:45:THR:HG21	1:3L:50:PHE:CZ	2.44	0.53
1:3M:45:THR:HG21	1:3M:50:PHE:CZ	2.44	0.53
1:3N:45:THR:HG21	1:3N:50:PHE:CZ	2.44	0.53
1:4C:45:THR:HG21	1:4C:50:PHE:CZ	2.44	0.53
1:5A:26:VAL:O	1:5A:29:TRP:HB2	2.08	0.53
1:5C:45:THR:HG21	1:5C:50:PHE:CZ	2.44	0.53
1:5F:26:VAL:O	1:5F:29:TRP:HB2	2.08	0.53
1:5F:45:THR:HG21	1:5F:50:PHE:CZ	2.44	0.53
1:5G:25:SER:OG	1:5G:29:TRP:NE1	2.31	0.53
1:1D:26:VAL:O	1:1D:29:TRP:HB2	2.08	0.53
1:1K:13:ASN:ND2	1:2M:63:VAL:HA	2.21	0.53
1:2K:25:SER:OG	1:2K:29:TRP:NE1	2.31	0.53
1:3K:45:THR:HG21	1:3K:50:PHE:CZ	2.44	0.53
1:4B:16:VAL:HG21	1:4C:29:TRP:CZ2	2.43	0.53
1:1E:67:VAL:CG1	1:5C:9:MET:CE	2.86	0.53
1:5D:45:THR:HG21	1:5D:50:PHE:CZ	2.44	0.53
1:1E:45:THR:HG21	1:1E:50:PHE:CZ	2.44	0.53
1:1G:45:THR:HG21	1:1G:50:PHE:CZ	2.44	0.53
1:2O:52:ALA:O	1:2O:56:ILE:N	2.27	0.53
1:3I:26:VAL:O	1:3I:29:TRP:HB2	2.08	0.53
1:4E:26:VAL:O	1:4E:29:TRP:HB2	2.08	0.53
1:4E:45:THR:HG21	1:4E:50:PHE:CZ	2.44	0.53
1:1N:26:VAL:O	1:1N:29:TRP:HB2	2.08	0.53
1:1B:9:MET:HE1	1:2D:67:VAL:HG11	1.91	0.53
1:2K:45:THR:HG21	1:2K:50:PHE:CZ	2.44	0.53
1:2L:45:THR:HG21	1:2L:50:PHE:CZ	2.44	0.53
1:3A:25:SER:C	1:3A:29:TRP:HD1	2.12	0.53
1:3D:64:GLY:HA3	1:3E:54:PHE:HE1	1.73	0.53
1:4D:45:THR:HG21	1:4D:50:PHE:CZ	2.44	0.53
1:4I:45:THR:HG21	1:4I:50:PHE:CZ	2.44	0.53
1:4K:26:VAL:O	1:4K:29:TRP:HB2	2.08	0.53
1:4M:45:THR:HG21	1:4M:50:PHE:CZ	2.44	0.53
1:5B:26:VAL:O	1:5B:29:TRP:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5G:45:THR:HG21	1:5G:50:PHE:CZ	2.44	0.53
1:1H:25:SER:C	1:1H:29:TRP:HD1	2.12	0.53
1:3B:25:SER:C	1:3B:29:TRP:HD1	2.12	0.53
1:3F:45:THR:HG21	1:3F:50:PHE:CZ	2.43	0.53
1:2G:37:VAL:CG1	2:3H:101:6V6:C1	2.78	0.53
1:3M:25:SER:C	1:3M:29:TRP:HD1	2.12	0.53
1:3N:26:VAL:O	1:3N:29:TRP:HB2	2.08	0.53
1:4B:45:THR:HG21	1:4B:50:PHE:CZ	2.44	0.53
1:4D:9:MET:CE	1:5F:67:VAL:CG1	2.81	0.53
1:4N:25:SER:C	1:4N:29:TRP:HD1	2.12	0.53
1:4O:25:SER:C	1:4O:29:TRP:HD1	2.12	0.53
1:5D:64:GLY:HA3	1:5E:54:PHE:HE1	1.73	0.53
1:5H:26:VAL:O	1:5H:29:TRP:HB2	2.08	0.53
1:5J:45:THR:HG21	1:5J:50:PHE:CZ	2.44	0.53
1:5K:45:THR:HG21	1:5K:50:PHE:CZ	2.44	0.53
1:1G:25:SER:C	1:1G:29:TRP:HD1	2.12	0.53
1:1I:25:SER:C	1:1I:29:TRP:HD1	2.12	0.53
1:1J:25:SER:C	1:1J:29:TRP:HD1	2.12	0.53
1:1K:26:VAL:O	1:1K:29:TRP:HB2	2.08	0.53
1:1O:45:THR:HG21	1:1O:50:PHE:CZ	2.44	0.53
1:2G:26:VAL:O	1:2G:29:TRP:HB2	2.08	0.53
1:2H:26:VAL:O	1:2H:29:TRP:HB2	2.08	0.53
1:2K:13:ASN:OD1	1:3M:63:VAL:HA	2.09	0.53
1:2K:26:VAL:O	1:2K:29:TRP:HB2	2.08	0.53
1:2M:45:THR:HG21	1:2M:50:PHE:CZ	2.44	0.53
1:3L:25:SER:C	1:3L:29:TRP:HD1	2.12	0.53
1:3N:25:SER:C	1:3N:29:TRP:HD1	2.12	0.53
1:3O:25:SER:C	1:3O:29:TRP:HD1	2.12	0.53
1:4C:26:VAL:O	1:4C:29:TRP:HB2	2.08	0.53
1:4H:45:THR:HG21	1:4H:50:PHE:CZ	2.44	0.53
1:4J:45:THR:HG21	1:4J:50:PHE:CZ	2.44	0.53
1:4L:45:THR:HG21	1:4L:50:PHE:CZ	2.44	0.53
1:4M:25:SER:C	1:4M:29:TRP:HD1	2.12	0.53
1:4N:26:VAL:O	1:4N:29:TRP:HB2	2.08	0.53
1:4N:45:THR:HG21	1:4N:50:PHE:CZ	2.44	0.53
1:5K:26:VAL:O	1:5K:29:TRP:HB2	2.08	0.53
1:5M:8:LEU:O	1:5M:11:SER:OG	2.22	0.53
1:1E:13:ASN:HD21	1:2G:63:VAL:CG1	2.01	0.53
1:1E:26:VAL:O	1:1E:29:TRP:HB2	2.08	0.53
1:1F:25:SER:C	1:1F:29:TRP:HD1	2.12	0.53
1:1H:45:THR:HG21	1:1H:50:PHE:CZ	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:45:THR:HG21	1:1I:50:PHE:CZ	2.44	0.53
1:1N:45:THR:HG21	1:1N:50:PHE:CZ	2.44	0.53
1:2H:52:ALA:O	1:2H:56:ILE:N	2.27	0.53
1:2K:25:SER:C	1:2K:29:TRP:HD1	2.12	0.53
1:2L:25:SER:C	1:2L:29:TRP:HD1	2.12	0.53
1:3G:45:THR:HG21	1:3G:50:PHE:CZ	2.44	0.53
1:3H:52:ALA:O	1:3H:56:ILE:N	2.27	0.53
1:3J:45:THR:HG21	1:3J:50:PHE:CZ	2.44	0.53
1:3K:26:VAL:O	1:3K:29:TRP:HB2	2.08	0.53
1:4A:45:THR:HG21	1:4A:50:PHE:CZ	2.44	0.53
1:4D:26:VAL:O	1:4D:29:TRP:HB2	2.08	0.53
1:4G:45:THR:HG21	1:4G:50:PHE:CZ	2.44	0.53
1:3M:13:ASN:ND2	1:4O:63:VAL:CB	2.72	0.53
1:5L:45:THR:HG21	1:5L:50:PHE:CZ	2.44	0.53
1:5O:25:SER:C	1:5O:29:TRP:HD1	2.12	0.53
1:2F:26:VAL:O	1:2F:29:TRP:HB2	2.08	0.53
1:2J:45:THR:HG21	1:2J:50:PHE:CZ	2.44	0.53
1:2M:25:SER:C	1:2M:29:TRP:HD1	2.12	0.53
1:3E:45:THR:HG21	1:3E:50:PHE:CZ	2.44	0.53
1:3H:45:THR:HG21	1:3H:50:PHE:CZ	2.44	0.53
1:3K:25:SER:C	1:3K:29:TRP:HD1	2.12	0.53
1:3O:45:THR:HG21	1:3O:50:PHE:CZ	2.44	0.53
1:4L:26:VAL:O	1:4L:29:TRP:HB2	2.08	0.53
1:5B:16:VAL:HG21	1:5C:29:TRP:CZ2	2.43	0.53
1:5D:25:SER:OG	1:5D:29:TRP:NE1	2.31	0.53
1:5I:45:THR:HG21	1:5I:50:PHE:CZ	2.44	0.53
1:4M:13:ASN:ND2	1:5O:63:VAL:CB	2.72	0.53
1:1D:16:VAL:HG21	1:1E:29:TRP:CZ2	2.44	0.53
1:1E:25:SER:C	1:1E:29:TRP:HD1	2.12	0.53
1:1H:26:VAL:O	1:1H:29:TRP:HB2	2.08	0.53
1:1M:45:THR:HG21	1:1M:50:PHE:CZ	2.44	0.53
1:2H:25:SER:C	1:2H:29:TRP:HD1	2.12	0.53
1:2J:25:SER:C	1:2J:29:TRP:HD1	2.12	0.53
1:3B:16:VAL:HG21	1:3C:29:TRP:CZ2	2.43	0.53
1:4E:52:ALA:O	1:4E:56:ILE:N	2.27	0.53
1:4K:45:THR:HG21	1:4K:50:PHE:CZ	2.44	0.53
1:5E:26:VAL:O	1:5E:29:TRP:HB2	2.08	0.53
1:5M:45:THR:HG21	1:5M:50:PHE:CZ	2.44	0.53
1:5N:26:VAL:O	1:5N:29:TRP:HB2	2.08	0.53
1:1B:34:GLU:OE1	1:1C:46:LYS:NZ	2.39	0.52
1:1C:26:VAL:O	1:1C:29:TRP:HB2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1K:25:SER:C	1:1K:29:TRP:HD1	2.12	0.52
1:2C:52:ALA:O	1:2C:56:ILE:N	2.27	0.52
1:2I:25:SER:C	1:2I:29:TRP:HD1	2.12	0.52
1:2O:45:THR:HG21	1:2O:50:PHE:CZ	2.44	0.52
1:3F:52:ALA:O	1:3F:56:ILE:N	2.27	0.52
1:3I:37:VAL:HG12	2:4J:101:6V6:C2	2.38	0.52
1:3J:26:VAL:O	1:3J:29:TRP:HB2	2.08	0.52
1:3L:26:VAL:O	1:3L:29:TRP:HB2	2.08	0.52
1:4A:25:SER:C	1:4A:29:TRP:HD1	2.12	0.52
1:4B:26:VAL:O	1:4B:29:TRP:HB2	2.08	0.52
1:4F:45:THR:HG21	1:4F:50:PHE:CZ	2.44	0.52
1:4O:26:VAL:O	1:4O:29:TRP:HB2	2.08	0.52
1:5B:45:THR:HG21	1:5B:50:PHE:CZ	2.44	0.52
1:5N:25:SER:C	1:5N:29:TRP:HD1	2.12	0.52
1:5O:45:THR:HG21	1:5O:50:PHE:CZ	2.44	0.52
1:1A:45:THR:HG21	1:1A:50:PHE:CZ	2.44	0.52
1:1D:45:THR:HG21	1:1D:50:PHE:CZ	2.44	0.52
1:1F:26:VAL:O	1:1F:29:TRP:HB2	2.08	0.52
1:1G:26:VAL:O	1:1G:29:TRP:HB2	2.08	0.52
1:1L:45:THR:HG21	1:1L:50:PHE:CZ	2.44	0.52
1:2D:64:GLY:HA3	1:2E:54:PHE:HE1	1.73	0.52
1:2E:45:THR:HG21	1:2E:50:PHE:CZ	2.44	0.52
1:2N:25:SER:C	1:2N:29:TRP:HD1	2.12	0.52
1:2N:45:THR:HG21	1:2N:50:PHE:CZ	2.44	0.52
1:3C:45:THR:HG21	1:3C:50:PHE:CZ	2.44	0.52
1:3I:45:THR:HG21	1:3I:50:PHE:CZ	2.44	0.52
1:4B:25:SER:C	1:4B:29:TRP:HD1	2.12	0.52
1:4L:25:SER:C	1:4L:29:TRP:HD1	2.12	0.52
1:5D:16:VAL:HG21	1:5E:29:TRP:CZ2	2.44	0.52
1:1D:57:ILE:HD11	1:1E:42:TYR:HD2	1.74	0.52
1:1G:67:VAL:HG13	1:5E:9:MET:HE2	1.91	0.52
1:1J:45:THR:HG21	1:1J:50:PHE:CZ	2.44	0.52
1:2B:16:VAL:HG21	1:2C:29:TRP:CZ2	2.43	0.52
1:2D:45:THR:HG21	1:2D:50:PHE:CZ	2.44	0.52
1:2G:25:SER:C	1:2G:29:TRP:HD1	2.12	0.52
1:4M:26:VAL:O	1:4M:29:TRP:HB2	2.08	0.52
1:4O:45:THR:HG21	1:4O:50:PHE:CZ	2.44	0.52
1:5C:25:SER:C	1:5C:29:TRP:HD1	2.12	0.52
1:5D:26:VAL:O	1:5D:29:TRP:HB2	2.08	0.52
1:4K:13:ASN:OD1	1:5M:63:VAL:HA	2.09	0.52
1:5O:26:VAL:O	1:5O:29:TRP:HB2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1D:64:GLY:HA3	1:1E:54:PHE:HE1	1.73	0.52
1:2A:25:SER:C	1:2A:29:TRP:HD1	2.12	0.52
1:2F:45:THR:HG21	1:2F:50:PHE:CZ	2.44	0.52
1:2I:45:THR:HG21	1:2I:50:PHE:CZ	2.44	0.52
1:2J:26:VAL:O	1:2J:29:TRP:HB2	2.08	0.52
1:2K:52:ALA:O	1:2K:56:ILE:N	2.27	0.52
1:3C:25:SER:C	1:3C:29:TRP:HD1	2.12	0.52
1:3K:52:ALA:O	1:3K:56:ILE:N	2.27	0.52
1:4A:26:VAL:O	1:4A:29:TRP:HB2	2.08	0.52
1:4D:25:SER:C	1:4D:29:TRP:HD1	2.12	0.52
1:4D:16:VAL:HG21	1:4E:29:TRP:CZ2	2.44	0.52
1:4K:52:ALA:O	1:4K:56:ILE:N	2.27	0.52
1:4O:25:SER:OG	1:4O:29:TRP:NE1	2.31	0.52
1:5H:45:THR:HG21	1:5H:50:PHE:CZ	2.44	0.52
1:5M:25:SER:C	1:5M:29:TRP:HD1	2.12	0.52
1:5N:45:THR:HG21	1:5N:50:PHE:CZ	2.44	0.52
1:1B:45:THR:HG21	1:1B:50:PHE:CZ	2.44	0.52
1:1K:45:THR:HG21	1:1K:50:PHE:CZ	2.44	0.52
1:1L:25:SER:C	1:1L:29:TRP:HD1	2.12	0.52
1:2I:26:VAL:O	1:2I:29:TRP:HB2	2.08	0.52
1:3A:26:VAL:O	1:3A:29:TRP:HB2	2.08	0.52
1:3A:45:THR:HG21	1:3A:50:PHE:CZ	2.44	0.52
1:3D:45:THR:HG21	1:3D:50:PHE:CZ	2.44	0.52
1:2C:13:ASN:HD21	1:3E:63:VAL:CG1	2.01	0.52
1:3J:25:SER:C	1:3J:29:TRP:HD1	2.12	0.52
1:4C:25:SER:C	1:4C:29:TRP:HD1	2.12	0.52
1:4N:52:ALA:O	1:4N:56:ILE:N	2.27	0.52
1:1D:25:SER:C	1:1D:29:TRP:HD1	2.12	0.52
1:2B:45:THR:HG21	1:2B:50:PHE:CZ	2.44	0.52
1:2C:45:THR:HG21	1:2C:50:PHE:CZ	2.44	0.52
1:2F:25:SER:C	1:2F:29:TRP:HD1	2.12	0.52
1:2O:25:SER:C	1:2O:29:TRP:HD1	2.12	0.52
1:3B:45:THR:HG21	1:3B:50:PHE:CZ	2.44	0.52
1:3I:9:MET:CE	1:4L:58:SER:OG	2.57	0.52
1:4G:52:ALA:O	1:4G:56:ILE:N	2.27	0.52
1:5B:25:SER:C	1:5B:29:TRP:HD1	2.12	0.52
1:5F:25:SER:C	1:5F:29:TRP:HD1	2.12	0.52
1:2C:13:ASN:HD21	1:3E:63:VAL:CB	2.23	0.52
1:2G:45:THR:HG21	1:2G:50:PHE:CZ	2.44	0.52
1:3C:25:SER:OG	1:3C:29:TRP:NE1	2.31	0.52
1:3C:6:GLN:HB2	1:3D:15:THR:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3D:16:VAL:HG21	1:3E:29:TRP:CZ2	2.44	0.52
1:3D:25:SER:C	1:3D:29:TRP:HD1	2.12	0.52
1:2M:13:ASN:ND2	1:3O:63:VAL:CB	2.72	0.52
1:4B:13:ASN:HD21	1:5D:63:VAL:HA	1.74	0.52
1:4I:37:VAL:HG12	2:5J:101:6V6:C2	2.37	0.52
1:4K:25:SER:C	1:4K:29:TRP:HD1	2.12	0.52
1:5A:25:SER:C	1:5A:29:TRP:HD1	2.12	0.52
1:5C:6:GLN:HB2	1:5D:15:THR:HG21	1.92	0.52
1:5E:25:SER:C	1:5E:29:TRP:HD1	2.12	0.52
1:5G:25:SER:C	1:5G:29:TRP:HD1	2.12	0.52
1:5H:25:SER:C	1:5H:29:TRP:HD1	2.12	0.52
1:5N:52:ALA:O	1:5N:56:ILE:N	2.27	0.52
1:1C:6:GLN:HB2	1:1D:15:THR:HG21	1.92	0.52
1:1M:25:SER:C	1:1M:29:TRP:HD1	2.12	0.52
1:1O:25:SER:C	1:1O:29:TRP:HD1	2.12	0.52
1:2C:6:GLN:HB2	1:2D:15:THR:HG21	1.92	0.52
1:4E:25:SER:C	1:4E:29:TRP:HD1	2.12	0.52
1:5A:45:THR:HG21	1:5A:50:PHE:CZ	2.44	0.52
1:1A:25:SER:C	1:1A:29:TRP:HD1	2.12	0.52
1:1C:45:THR:HG21	1:1C:50:PHE:CZ	2.44	0.52
1:1D:34:GLU:OE1	1:1E:46:LYS:NZ	2.39	0.52
1:1N:25:SER:C	1:1N:29:TRP:HD1	2.12	0.52
1:2A:45:THR:HG21	1:2A:50:PHE:CZ	2.44	0.52
1:2E:25:SER:C	1:2E:29:TRP:HD1	2.12	0.52
1:2D:16:VAL:HG21	1:2E:29:TRP:CZ2	2.44	0.52
1:3I:25:SER:C	1:3I:29:TRP:HD1	2.12	0.52
1:4C:6:GLN:HB2	1:4D:15:THR:HG21	1.92	0.52
1:3B:13:ASN:HD21	1:4D:63:VAL:HA	1.75	0.52
1:5C:26:VAL:O	1:5C:29:TRP:HB2	2.08	0.52
1:5D:34:GLU:OE1	1:5E:46:LYS:NZ	2.39	0.52
1:5L:25:SER:C	1:5L:29:TRP:HD1	2.12	0.52
1:1G:8:LEU:O	1:1G:11:SER:OG	2.22	0.52
1:2B:25:SER:C	1:2B:29:TRP:HD1	2.12	0.52
1:2H:45:THR:HG21	1:2H:50:PHE:CZ	2.44	0.52
1:3N:52:ALA:O	1:3N:56:ILE:N	2.27	0.52
1:4B:34:GLU:OE1	1:4C:46:LYS:NZ	2.39	0.52
1:4I:9:MET:CE	1:5L:58:SER:OG	2.57	0.52
1:5D:25:SER:C	1:5D:29:TRP:HD1	2.12	0.52
1:5I:25:SER:C	1:5I:29:TRP:HD1	2.12	0.52
1:5K:25:SER:C	1:5K:29:TRP:HD1	2.12	0.52
1:1D:13:ASN:HD21	1:2F:63:VAL:CG1	1.96	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2B:34:GLU:OE1	1:2C:46:LYS:NZ	2.39	0.51
1:2C:25:SER:C	1:2C:29:TRP:HD1	2.12	0.51
1:4J:25:SER:C	1:4J:29:TRP:HD1	2.12	0.51
1:5J:25:SER:C	1:5J:29:TRP:HD1	2.12	0.51
1:1C:25:SER:C	1:1C:29:TRP:HD1	2.12	0.51
1:2A:8:LEU:CB	1:2B:19:THR:HA	2.40	0.51
1:2N:25:SER:OG	1:2N:29:TRP:NE1	2.31	0.51
1:2I:9:MET:CE	1:3L:58:SER:OG	2.57	0.51
1:3M:26:VAL:O	1:3M:29:TRP:HB2	2.08	0.51
1:4C:25:SER:OG	1:4C:29:TRP:NE1	2.31	0.51
1:4F:25:SER:C	1:4F:29:TRP:HD1	2.12	0.51
1:3D:57:ILE:HD11	1:3E:42:TYR:HD2	1.74	0.51
1:3F:25:SER:C	1:3F:29:TRP:HD1	2.12	0.51
1:3G:25:SER:C	1:3G:29:TRP:HD1	2.12	0.51
1:3H:25:SER:C	1:3H:29:TRP:HD1	2.12	0.51
1:1F:58:SER:OG	1:5C:9:MET:SD	2.63	0.51
1:4E:9:MET:HE1	1:5G:67:VAL:CG1	2.39	0.51
1:2D:25:SER:C	1:2D:29:TRP:HD1	2.12	0.51
1:3E:25:SER:C	1:3E:29:TRP:HD1	2.12	0.51
1:4G:25:SER:C	1:4G:29:TRP:HD1	2.12	0.51
1:3K:13:ASN:OD1	1:4M:63:VAL:HA	2.09	0.51
1:1H:58:SER:OG	1:5E:9:MET:SD	2.64	0.51
1:5M:57:ILE:HD11	1:5N:42:TYR:HD2	1.76	0.51
1:1B:25:SER:C	1:1B:29:TRP:HD1	2.12	0.51
1:1M:57:ILE:HD11	1:1N:42:TYR:HD2	1.76	0.51
1:2D:34:GLU:OE1	1:2E:46:LYS:NZ	2.39	0.51
1:4H:25:SER:C	1:4H:29:TRP:HD1	2.12	0.51
1:3L:52:ALA:O	1:3L:56:ILE:N	2.27	0.51
1:4I:25:SER:C	1:4I:29:TRP:HD1	2.12	0.51
1:4O:52:ALA:O	1:4O:56:ILE:N	2.27	0.51
1:5F:25:SER:OG	1:5F:29:TRP:NE1	2.31	0.51
1:1E:67:VAL:HG13	1:5C:9:MET:CE	2.41	0.51
1:1J:58:SER:OG	1:5G:9:MET:HE3	2.06	0.51
1:1N:57:ILE:HD11	1:1O:42:TYR:HD2	1.75	0.51
1:2D:57:ILE:HD11	1:2E:42:TYR:HD2	1.75	0.51
1:4D:57:ILE:HD11	1:4E:42:TYR:HD2	1.74	0.51
1:1B:8:LEU:O	1:1B:11:SER:OG	2.22	0.51
1:1D:63:VAL:CB	1:5B:13:ASN:ND2	2.69	0.51
1:5N:57:ILE:HD11	1:5O:42:TYR:HD2	1.75	0.51
1:3B:34:GLU:OE1	1:3C:46:LYS:NZ	2.39	0.51
1:3N:57:ILE:HD11	1:3O:42:TYR:HD2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5H:52:ALA:O	1:5H:56:ILE:N	2.27	0.51
1:1K:52:ALA:O	1:1K:56:ILE:N	2.27	0.51
1:2L:8:LEU:O	1:2L:11:SER:OG	2.22	0.51
1:4A:53:GLY:CA	1:4A:57:ILE:H	2.25	0.50
1:4O:53:GLY:CA	1:4O:57:ILE:H	2.25	0.50
1:1H:53:GLY:CA	1:1H:57:ILE:H	2.25	0.50
1:2B:13:ASN:HD21	1:3D:63:VAL:HA	1.75	0.50
1:2J:53:GLY:CA	1:2J:57:ILE:H	2.25	0.50
1:3A:53:GLY:CA	1:3A:57:ILE:H	2.25	0.50
1:3J:53:GLY:CA	1:3J:57:ILE:H	2.25	0.50
1:3O:53:GLY:CA	1:3O:57:ILE:H	2.25	0.50
1:5D:57:ILE:HD11	1:5E:42:TYR:HD2	1.74	0.50
1:5F:53:GLY:CA	1:5F:57:ILE:H	2.25	0.50
1:1J:53:GLY:CA	1:1J:57:ILE:H	2.25	0.50
1:2H:53:GLY:CA	1:2H:57:ILE:H	2.25	0.50
1:2L:13:ASN:CB	1:3N:63:VAL:CG1	2.78	0.50
1:2M:53:GLY:CA	1:2M:57:ILE:H	2.25	0.50
1:2N:57:ILE:HD11	1:2O:42:TYR:HD2	1.75	0.50
1:4C:52:ALA:O	1:4C:56:ILE:N	2.27	0.50
1:4F:53:GLY:CA	1:4F:57:ILE:H	2.25	0.50
1:5C:53:GLY:CA	1:5C:57:ILE:H	2.25	0.50
1:5O:53:GLY:CA	1:5O:57:ILE:H	2.25	0.50
1:1E:53:GLY:CA	1:1E:57:ILE:H	2.25	0.50
1:1F:13:ASN:HD21	1:2H:63:VAL:CG1	2.00	0.50
1:1F:52:ALA:O	1:1F:56:ILE:N	2.27	0.50
1:1F:53:GLY:CA	1:1F:57:ILE:H	2.25	0.50
1:1K:53:GLY:CA	1:1K:57:ILE:H	2.25	0.50
1:2I:37:VAL:HG12	2:3J:101:6V6:C2	2.38	0.50
1:2K:53:GLY:CA	1:2K:57:ILE:H	2.25	0.50
1:3D:53:GLY:CA	1:3D:57:ILE:H	2.25	0.50
1:4C:53:GLY:CA	1:4C:57:ILE:H	2.25	0.50
1:4H:8:LEU:O	1:4H:11:SER:OG	2.22	0.50
1:4L:53:GLY:CA	1:4L:57:ILE:H	2.25	0.50
1:5H:53:GLY:CA	1:5H:57:ILE:H	2.25	0.50
1:2B:53:GLY:CA	1:2B:57:ILE:H	2.25	0.50
1:3L:53:GLY:CA	1:3L:57:ILE:H	2.25	0.50
1:3M:53:GLY:CA	1:3M:57:ILE:H	2.25	0.50
1:4D:53:GLY:CA	1:4D:57:ILE:H	2.25	0.50
1:3K:9:MET:HE1	1:4N:58:SER:CB	2.41	0.50
1:4N:57:ILE:HD11	1:4O:42:TYR:HD2	1.75	0.50
1:5A:53:GLY:CA	1:5A:57:ILE:H	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:25:SER:OG	1:1I:29:TRP:NE1	2.31	0.50
1:2E:53:GLY:CA	1:2E:57:ILE:H	2.25	0.50
1:3L:9:MET:HE1	1:4O:58:SER:CB	2.42	0.50
1:4M:53:GLY:CA	1:4M:57:ILE:H	2.25	0.50
1:1A:8:LEU:CB	1:1B:19:THR:HA	2.40	0.50
1:1C:53:GLY:CA	1:1C:57:ILE:H	2.25	0.50
1:2I:52:ALA:O	1:2I:56:ILE:N	2.27	0.50
1:2L:52:ALA:O	1:2L:56:ILE:N	2.27	0.50
1:2M:25:SER:OG	1:2M:29:TRP:NE1	2.31	0.50
1:5E:53:GLY:CA	1:5E:57:ILE:H	2.25	0.50
1:5N:53:GLY:CA	1:5N:57:ILE:H	2.25	0.50
1:1D:57:ILE:HD11	1:1E:42:TYR:CD2	2.47	0.50
1:2A:53:GLY:CA	1:2A:57:ILE:H	2.25	0.50
1:2D:57:ILE:HD11	1:2E:42:TYR:CD2	2.47	0.50
1:2L:53:GLY:CA	1:2L:57:ILE:H	2.25	0.50
1:3B:53:GLY:CA	1:3B:57:ILE:H	2.25	0.50
1:3G:53:GLY:CA	1:3G:57:ILE:H	2.25	0.50
1:3K:53:GLY:CA	1:3K:57:ILE:H	2.25	0.50
1:4D:57:ILE:HD11	1:4E:42:TYR:CD2	2.47	0.50
2:1D:101:6V6:C1	1:5C:37:VAL:HG12	2.41	0.50
1:5D:53:GLY:CA	1:5D:57:ILE:H	2.25	0.50
1:5F:52:ALA:O	1:5F:56:ILE:N	2.27	0.50
1:5K:53:GLY:CA	1:5K:57:ILE:H	2.25	0.50
1:1B:53:GLY:CA	1:1B:57:ILE:H	2.25	0.50
1:1I:52:ALA:O	1:1I:56:ILE:N	2.27	0.50
1:1M:53:GLY:CA	1:1M:57:ILE:H	2.25	0.50
1:1N:53:GLY:CA	1:1N:57:ILE:H	2.25	0.50
1:2D:53:GLY:CA	1:2D:57:ILE:H	2.25	0.50
1:2G:53:GLY:CA	1:2G:57:ILE:H	2.25	0.50
1:3M:57:ILE:HD11	1:3N:42:TYR:HD2	1.76	0.50
1:5I:53:GLY:CA	1:5I:57:ILE:H	2.25	0.50
1:1H:8:LEU:HG	1:1H:11:SER:HB3	1.94	0.49
1:1A:13:ASN:HD22	1:2C:63:VAL:HG12	0.67	0.49
1:2H:25:SER:OG	1:2H:29:TRP:NE1	2.31	0.49
1:2K:8:LEU:HG	1:2K:11:SER:HB3	1.94	0.49
1:2O:53:GLY:CA	1:2O:57:ILE:H	2.25	0.49
1:3C:53:GLY:CA	1:3C:57:ILE:H	2.25	0.49
1:4E:53:GLY:CA	1:4E:57:ILE:H	2.25	0.49
1:4N:53:GLY:CA	1:4N:57:ILE:H	2.25	0.49
1:5L:53:GLY:CA	1:5L:57:ILE:H	2.25	0.49
1:1A:8:LEU:HG	1:1A:11:SER:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1B:8:LEU:HG	1:1B:11:SER:HB3	1.95	0.49
1:2O:8:LEU:HG	1:2O:11:SER:HB3	1.94	0.49
1:3N:8:LEU:HG	1:3N:11:SER:HB3	1.95	0.49
1:4B:53:GLY:CA	1:4B:57:ILE:H	2.25	0.49
1:4B:8:LEU:HG	1:4B:11:SER:HB3	1.95	0.49
1:4E:25:SER:OG	1:4E:29:TRP:NE1	2.31	0.49
1:4I:53:GLY:CA	1:4I:57:ILE:H	2.25	0.49
1:4J:53:GLY:CA	1:4J:57:ILE:H	2.25	0.49
1:5B:60:PHE:HE2	1:5C:39:ALA:HB2	1.77	0.49
1:5C:52:ALA:O	1:5C:56:ILE:N	2.27	0.49
1:5E:8:LEU:HG	1:5E:11:SER:HB3	1.95	0.49
1:1I:8:LEU:HG	1:1I:11:SER:HB3	1.95	0.49
1:1M:8:LEU:HG	1:1M:11:SER:HB3	1.95	0.49
1:2B:25:SER:OG	1:2B:29:TRP:NE1	2.31	0.49
1:2E:8:LEU:HG	1:2E:11:SER:HB3	1.95	0.49
1:2F:53:GLY:CA	1:2F:57:ILE:H	2.25	0.49
1:2J:25:SER:OG	1:2J:29:TRP:NE1	2.31	0.49
1:2L:8:LEU:HG	1:2L:11:SER:HB3	1.95	0.49
1:2N:53:GLY:CA	1:2N:57:ILE:H	2.25	0.49
1:3H:53:GLY:CA	1:3H:57:ILE:H	2.25	0.49
1:4B:60:PHE:HE2	1:4C:39:ALA:HB2	1.77	0.49
1:4G:53:GLY:CA	1:4G:57:ILE:H	2.25	0.49
1:5D:8:LEU:HG	1:5D:11:SER:HB3	1.94	0.49
1:4E:13:ASN:HD21	1:5G:63:VAL:HA	1.77	0.49
1:5J:8:LEU:HG	1:5J:11:SER:HB3	1.95	0.49
1:2M:57:ILE:HD11	1:2N:42:TYR:HD2	1.76	0.49
1:3H:8:LEU:HG	1:3H:11:SER:HB3	1.95	0.49
1:3M:63:VAL:O	1:3M:67:VAL:HG23	2.13	0.49
1:4A:8:LEU:HG	1:4A:11:SER:HB3	1.95	0.49
1:3L:9:MET:HE1	1:4O:58:SER:OG	2.08	0.49
1:5A:6:GLN:HB2	1:5B:15:THR:HG21	1.95	0.49
1:5O:8:LEU:HG	1:5O:11:SER:HB3	1.94	0.49
1:1I:53:GLY:CA	1:1I:57:ILE:H	2.25	0.49
1:1N:8:LEU:HG	1:1N:11:SER:HB3	1.95	0.49
1:2A:8:LEU:HG	1:2A:11:SER:HB3	1.94	0.49
1:2A:6:GLN:HB2	1:2B:15:THR:HG21	1.95	0.49
1:2C:53:GLY:CA	1:2C:57:ILE:H	2.25	0.49
1:2F:8:LEU:HG	1:2F:11:SER:HB3	1.95	0.49
1:2J:8:LEU:HG	1:2J:11:SER:HB3	1.95	0.49
1:3D:8:LEU:HG	1:3D:11:SER:HB3	1.94	0.49
1:3D:57:ILE:HD11	1:3E:42:TYR:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3F:53:GLY:CA	1:3F:57:ILE:H	2.25	0.49
1:3I:8:LEU:HG	1:3I:11:SER:HB3	1.95	0.49
1:3I:53:GLY:CA	1:3I:57:ILE:H	2.25	0.49
1:3O:8:LEU:HG	1:3O:11:SER:HB3	1.94	0.49
1:4G:8:LEU:HG	1:4G:11:SER:HB3	1.95	0.49
1:5C:63:VAL:O	1:5C:67:VAL:HG23	2.13	0.49
1:5I:8:LEU:HG	1:5I:11:SER:HB3	1.95	0.49
1:1C:63:VAL:O	1:1C:67:VAL:HG23	2.13	0.49
1:1L:53:GLY:CA	1:1L:57:ILE:H	2.25	0.49
1:1O:63:VAL:O	1:1O:67:VAL:HG23	2.13	0.49
1:2D:8:LEU:HG	1:2D:11:SER:HB3	1.95	0.49
1:2F:57:ILE:HD11	1:2G:42:TYR:HD2	1.78	0.49
1:2I:53:GLY:CA	1:2I:57:ILE:H	2.25	0.49
1:2J:63:VAL:O	1:2J:67:VAL:HG23	2.13	0.49
1:3C:13:ASN:HD21	1:4E:63:VAL:CB	2.23	0.49
1:3C:8:LEU:HG	1:3C:11:SER:HB3	1.95	0.49
1:3D:34:GLU:OE1	1:3E:46:LYS:NZ	2.39	0.49
1:3E:53:GLY:CA	1:3E:57:ILE:H	2.25	0.49
1:3M:8:LEU:HG	1:3M:11:SER:HB3	1.95	0.49
1:4A:6:GLN:HB2	1:4B:15:THR:HG21	1.95	0.49
1:4B:63:VAL:O	1:4B:67:VAL:HG23	2.13	0.49
1:4C:13:ASN:HD21	1:5E:63:VAL:CB	2.23	0.49
1:4H:53:GLY:CA	1:4H:57:ILE:H	2.25	0.49
1:4J:8:LEU:HG	1:4J:11:SER:HB3	1.94	0.49
1:5A:45:THR:HG21	1:5A:50:PHE:HZ	1.78	0.49
1:5F:8:LEU:HG	1:5F:11:SER:HB3	1.95	0.49
1:5K:63:VAL:O	1:5K:67:VAL:HG23	2.13	0.49
1:5N:8:LEU:HG	1:5N:11:SER:HB3	1.94	0.49
1:1A:6:GLN:HB2	1:1B:15:THR:HG21	1.95	0.49
1:1C:8:LEU:HG	1:1C:11:SER:HB3	1.95	0.49
1:1F:63:VAL:O	1:1F:67:VAL:HG23	2.13	0.49
1:1G:8:LEU:HG	1:1G:11:SER:HB3	1.95	0.49
1:1G:63:VAL:O	1:1G:67:VAL:HG23	2.13	0.49
1:2F:63:VAL:O	1:2F:67:VAL:HG23	2.13	0.49
1:2I:63:VAL:O	1:2I:67:VAL:HG23	2.13	0.49
1:3G:8:LEU:HG	1:3G:11:SER:HB3	1.95	0.49
1:3J:63:VAL:O	1:3J:67:VAL:HG23	2.13	0.49
1:3J:8:LEU:HG	1:3J:11:SER:HB3	1.94	0.49
1:4A:63:VAL:O	1:4A:67:VAL:HG23	2.13	0.49
1:4H:63:VAL:O	1:4H:67:VAL:HG23	2.13	0.49
1:4K:8:LEU:HG	1:4K:11:SER:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4K:63:VAL:O	1:4K:67:VAL:HG23	2.13	0.49
1:4L:8:LEU:HG	1:4L:11:SER:HB3	1.95	0.49
1:4L:57:ILE:HD11	1:4M:42:TYR:HD2	1.78	0.49
1:4M:57:ILE:HD11	1:4N:42:TYR:HD2	1.76	0.49
1:4N:63:VAL:O	1:4N:67:VAL:HG23	2.13	0.49
1:4O:63:VAL:O	1:4O:67:VAL:HG23	2.13	0.49
1:5D:63:VAL:O	1:5D:67:VAL:HG23	2.13	0.49
1:5L:63:VAL:O	1:5L:67:VAL:HG23	2.13	0.49
1:5O:63:VAL:O	1:5O:67:VAL:HG23	2.13	0.49
1:1D:8:LEU:HG	1:1D:11:SER:HB3	1.94	0.49
1:1H:63:VAL:O	1:1H:67:VAL:HG23	2.13	0.49
1:1K:63:VAL:O	1:1K:67:VAL:HG23	2.13	0.49
1:1L:8:LEU:HG	1:1L:11:SER:HB3	1.95	0.49
1:1N:63:VAL:O	1:1N:67:VAL:HG23	2.13	0.49
1:1O:53:GLY:CA	1:1O:57:ILE:H	2.25	0.49
1:2B:63:VAL:O	1:2B:67:VAL:HG23	2.13	0.49
1:2D:63:VAL:O	1:2D:67:VAL:HG23	2.13	0.49
1:1C:9:MET:HE3	1:2E:67:VAL:HG13	1.89	0.49
1:2G:63:VAL:O	1:2G:67:VAL:HG23	2.13	0.49
1:3F:57:ILE:HD11	1:3G:42:TYR:HD2	1.78	0.49
1:3G:63:VAL:O	1:3G:67:VAL:HG23	2.13	0.49
1:3H:63:VAL:O	1:3H:67:VAL:HG23	2.13	0.49
1:3I:63:VAL:O	1:3I:67:VAL:HG23	2.13	0.49
1:3N:45:THR:HG21	1:3N:50:PHE:HZ	1.78	0.49
1:3O:45:THR:HG21	1:3O:50:PHE:HZ	1.78	0.49
1:4F:8:LEU:HG	1:4F:11:SER:HB3	1.95	0.49
1:4H:8:LEU:HG	1:4H:11:SER:HB3	1.94	0.49
1:4I:63:VAL:O	1:4I:67:VAL:HG23	2.13	0.49
1:4K:53:GLY:CA	1:4K:57:ILE:H	2.25	0.49
1:4M:8:LEU:HG	1:4M:11:SER:HB3	1.95	0.49
1:5C:8:LEU:HG	1:5C:11:SER:HB3	1.95	0.49
1:5E:63:VAL:O	1:5E:67:VAL:HG23	2.13	0.49
1:5G:53:GLY:CA	1:5G:57:ILE:H	2.25	0.49
1:5K:8:LEU:HG	1:5K:11:SER:HB3	1.95	0.49
1:1A:45:THR:HG21	1:1A:50:PHE:HZ	1.78	0.49
1:1D:53:GLY:CA	1:1D:57:ILE:H	2.25	0.49
1:1D:63:VAL:O	1:1D:67:VAL:HG23	2.13	0.49
1:1J:8:LEU:HG	1:1J:11:SER:HB3	1.94	0.49
1:2K:63:VAL:O	1:2K:67:VAL:HG23	2.13	0.49
1:2L:9:MET:CE	1:3O:58:SER:CB	2.91	0.49
1:3A:63:VAL:O	1:3A:67:VAL:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3B:63:VAL:O	1:3B:67:VAL:HG23	2.13	0.49
1:3E:63:VAL:O	1:3E:67:VAL:HG23	2.13	0.49
1:3F:63:VAL:O	1:3F:67:VAL:HG23	2.13	0.49
1:2E:13:ASN:HD21	1:3G:63:VAL:HA	1.77	0.49
1:4H:45:THR:HG21	1:4H:50:PHE:HZ	1.78	0.49
1:4L:63:VAL:O	1:4L:67:VAL:HG23	2.13	0.49
1:5B:53:GLY:CA	1:5B:57:ILE:H	2.25	0.49
1:5B:63:VAL:O	1:5B:67:VAL:HG23	2.13	0.49
1:5C:45:THR:HG21	1:5C:50:PHE:HZ	1.78	0.49
1:5J:45:THR:HG21	1:5J:50:PHE:HZ	1.78	0.49
1:5J:53:GLY:CA	1:5J:57:ILE:H	2.25	0.49
1:5N:63:VAL:O	1:5N:67:VAL:HG23	2.13	0.49
1:1C:45:THR:HG21	1:1C:50:PHE:HZ	1.78	0.49
1:1I:63:VAL:O	1:1I:67:VAL:HG23	2.13	0.49
1:2L:63:VAL:O	1:2L:67:VAL:HG23	2.13	0.49
1:2M:45:THR:HG21	1:2M:50:PHE:HZ	1.78	0.49
1:2N:45:THR:HG21	1:2N:50:PHE:HZ	1.78	0.49
1:3N:53:GLY:CA	1:3N:57:ILE:H	2.25	0.49
1:4C:8:LEU:HG	1:4C:11:SER:HB3	1.95	0.49
1:4E:63:VAL:O	1:4E:67:VAL:HG23	2.13	0.49
1:4F:57:ILE:HD11	1:4G:42:TYR:HD2	1.78	0.49
1:4M:63:VAL:O	1:4M:67:VAL:HG23	2.13	0.49
1:5H:63:VAL:O	1:5H:67:VAL:HG23	2.13	0.49
1:1J:45:THR:HG21	1:1J:50:PHE:HZ	1.78	0.48
1:1K:45:THR:HG21	1:1K:50:PHE:HZ	1.78	0.48
1:1L:25:SER:O	1:1L:29:TRP:HD1	1.96	0.48
1:1L:45:THR:HG21	1:1L:50:PHE:HZ	1.78	0.48
1:2C:8:LEU:HG	1:2C:11:SER:HB3	1.95	0.48
1:2G:8:LEU:HG	1:2G:11:SER:HB3	1.95	0.48
1:2L:45:THR:HG21	1:2L:50:PHE:HZ	1.78	0.48
1:2M:63:VAL:O	1:2M:67:VAL:HG23	2.13	0.48
1:2N:25:SER:O	1:2N:29:TRP:HD1	1.96	0.48
1:3A:6:GLN:HB2	1:3B:15:THR:HG21	1.95	0.48
1:3B:8:LEU:HG	1:3B:11:SER:HB3	1.95	0.48
1:3E:8:LEU:HG	1:3E:11:SER:HB3	1.95	0.48
1:3G:25:SER:O	1:3G:29:TRP:HD1	1.97	0.48
1:4A:45:THR:HG21	1:4A:50:PHE:HZ	1.78	0.48
1:4B:25:SER:O	1:4B:29:TRP:HD1	1.96	0.48
1:4C:63:VAL:O	1:4C:67:VAL:HG23	2.13	0.48
1:4H:25:SER:O	1:4H:29:TRP:HD1	1.96	0.48
1:4J:63:VAL:O	1:4J:67:VAL:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4N:25:SER:O	1:4N:29:TRP:HD1	1.96	0.48
1:4O:8:LEU:HG	1:4O:11:SER:HB3	1.94	0.48
1:5B:45:THR:HG21	1:5B:50:PHE:HZ	1.78	0.48
1:5H:8:LEU:HG	1:5H:11:SER:HB3	1.94	0.48
1:5K:25:SER:O	1:5K:29:TRP:HD1	1.96	0.48
1:5M:53:GLY:CA	1:5M:57:ILE:H	2.25	0.48
1:1C:25:SER:O	1:1C:29:TRP:HD1	1.97	0.48
1:1E:63:VAL:O	1:1E:67:VAL:HG23	2.13	0.48
1:1F:57:ILE:HD11	1:1G:42:TYR:HD2	1.78	0.48
1:1O:45:THR:HG21	1:1O:50:PHE:HZ	1.78	0.48
1:2E:25:SER:O	1:2E:29:TRP:HD1	1.97	0.48
1:2F:25:SER:O	1:2F:29:TRP:HD1	1.96	0.48
1:2N:8:LEU:HG	1:2N:11:SER:HB3	1.94	0.48
1:2N:63:VAL:O	1:2N:67:VAL:HG23	2.13	0.48
1:2O:25:SER:O	1:2O:29:TRP:HD1	1.97	0.48
1:3H:25:SER:O	1:3H:29:TRP:HD1	1.96	0.48
1:3L:63:VAL:O	1:3L:67:VAL:HG23	2.13	0.48
1:3M:25:SER:O	1:3M:29:TRP:HD1	1.97	0.48
1:4D:25:SER:O	1:4D:29:TRP:HD1	1.96	0.48
1:4D:63:VAL:O	1:4D:67:VAL:HG23	2.13	0.48
1:4I:25:SER:O	1:4I:29:TRP:HD1	1.97	0.48
1:4N:8:LEU:HG	1:4N:11:SER:HB3	1.95	0.48
1:5D:57:ILE:HD11	1:5E:42:TYR:CD2	2.47	0.48
1:5G:63:VAL:O	1:5G:67:VAL:HG23	2.13	0.48
1:5J:25:SER:O	1:5J:29:TRP:HD1	1.97	0.48
1:1A:63:VAL:O	1:1A:67:VAL:HG23	2.13	0.48
1:1B:25:SER:O	1:1B:29:TRP:HD1	1.96	0.48
1:1B:63:VAL:O	1:1B:67:VAL:HG23	2.13	0.48
1:1D:25:SER:O	1:1D:29:TRP:HD1	1.96	0.48
1:1J:63:VAL:O	1:1J:67:VAL:HG23	2.13	0.48
1:1L:63:VAL:O	1:1L:67:VAL:HG23	2.13	0.48
1:1M:25:SER:O	1:1M:29:TRP:HD1	1.97	0.48
1:1N:45:THR:HG21	1:1N:50:PHE:HZ	1.78	0.48
1:2C:45:THR:HG21	1:2C:50:PHE:HZ	1.78	0.48
1:2C:63:VAL:O	1:2C:67:VAL:HG23	2.13	0.48
1:2D:25:SER:O	1:2D:29:TRP:HD1	1.96	0.48
1:2E:63:VAL:O	1:2E:67:VAL:HG23	2.13	0.48
1:2H:25:SER:O	1:2H:29:TRP:HD1	1.96	0.48
1:2J:25:SER:O	1:2J:29:TRP:HD1	1.96	0.48
1:2K:9:MET:CE	1:3N:58:SER:HG	2.12	0.48
1:2M:8:LEU:HG	1:2M:11:SER:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2O:45:THR:HG21	1:2O:50:PHE:HZ	1.78	0.48
1:3A:45:THR:HG21	1:3A:50:PHE:HZ	1.78	0.48
1:3B:60:PHE:HE2	1:3C:39:ALA:HB2	1.77	0.48
1:3F:25:SER:O	1:3F:29:TRP:HD1	1.96	0.48
1:3G:57:ILE:HD11	1:3H:42:TYR:HD2	1.79	0.48
1:3K:25:SER:O	1:3K:29:TRP:HD1	1.97	0.48
1:3K:63:VAL:O	1:3K:67:VAL:HG23	2.13	0.48
1:3M:45:THR:HG21	1:3M:50:PHE:HZ	1.78	0.48
1:3N:63:VAL:O	1:3N:67:VAL:HG23	2.13	0.48
1:4E:8:LEU:HG	1:4E:11:SER:HB3	1.95	0.48
1:4J:25:SER:O	1:4J:29:TRP:HD1	1.96	0.48
1:5F:63:VAL:O	1:5F:67:VAL:HG23	2.13	0.48
1:5M:8:LEU:HG	1:5M:11:SER:HB3	1.95	0.48
1:1A:53:GLY:CA	1:1A:57:ILE:H	2.25	0.48
1:1B:60:PHE:HE2	1:1C:39:ALA:HB2	1.77	0.48
1:1H:25:SER:O	1:1H:29:TRP:HD1	1.96	0.48
1:1I:45:THR:HG21	1:1I:50:PHE:HZ	1.78	0.48
1:1K:25:SER:O	1:1K:29:TRP:HD1	1.97	0.48
1:1M:45:THR:HG21	1:1M:50:PHE:HZ	1.78	0.48
1:2A:45:THR:HG21	1:2A:50:PHE:HZ	1.78	0.48
1:2B:8:LEU:HG	1:2B:11:SER:HB3	1.95	0.48
1:3A:25:SER:O	1:3A:29:TRP:HD1	1.97	0.48
1:3E:45:THR:HG21	1:3E:50:PHE:HZ	1.78	0.48
1:4C:45:THR:HG21	1:4C:50:PHE:HZ	1.78	0.48
1:4D:8:LEU:HG	1:4D:11:SER:HB3	1.94	0.48
1:4O:45:THR:HG21	1:4O:50:PHE:HZ	1.78	0.48
1:5A:63:VAL:O	1:5A:67:VAL:HG23	2.13	0.48
1:5B:25:SER:O	1:5B:29:TRP:HD1	1.96	0.48
1:5E:25:SER:O	1:5E:29:TRP:HD1	1.97	0.48
1:5G:45:THR:HG21	1:5G:50:PHE:HZ	1.78	0.48
1:5I:25:SER:OG	1:5I:29:TRP:NE1	2.31	0.48
1:5M:45:THR:HG21	1:5M:50:PHE:HZ	1.78	0.48
1:5N:45:THR:HG21	1:5N:50:PHE:HZ	1.78	0.48
1:1B:45:THR:HG21	1:1B:50:PHE:HZ	1.78	0.48
1:1M:25:SER:OG	1:1M:29:TRP:NE1	2.31	0.48
1:1L:57:ILE:HD11	1:1M:42:TYR:HD2	1.78	0.48
1:1O:8:LEU:HG	1:1O:11:SER:HB3	1.94	0.48
1:2A:63:VAL:O	1:2A:67:VAL:HG23	2.13	0.48
1:1B:13:ASN:HD21	1:2D:63:VAL:CG1	1.94	0.48
1:2F:45:THR:HG21	1:2F:50:PHE:HZ	1.78	0.48
1:2I:8:LEU:HG	1:2I:11:SER:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2K:45:THR:HG21	1:2K:50:PHE:HZ	1.78	0.48
1:2M:25:SER:O	1:2M:29:TRP:HD1	1.97	0.48
1:3K:8:LEU:HG	1:3K:11:SER:HB3	1.94	0.48
1:4K:45:THR:HG21	1:4K:50:PHE:HZ	1.78	0.48
1:5A:8:LEU:HG	1:5A:11:SER:HB3	1.94	0.48
1:5A:25:SER:O	1:5A:29:TRP:HD1	1.97	0.48
1:5A:8:LEU:CB	1:5B:19:THR:HA	2.40	0.48
1:5L:25:SER:O	1:5L:29:TRP:HD1	1.96	0.48
1:5L:57:ILE:HD11	1:5M:42:TYR:HD2	1.78	0.48
1:5O:45:THR:HG21	1:5O:50:PHE:HZ	1.78	0.48
1:1D:45:THR:HG21	1:1D:50:PHE:HZ	1.78	0.48
1:1G:53:GLY:CA	1:1G:57:ILE:H	2.25	0.48
1:1N:25:SER:O	1:1N:29:TRP:HD1	1.96	0.48
1:2B:60:PHE:HE2	1:2C:39:ALA:HB2	1.77	0.48
1:2E:45:THR:HG21	1:2E:50:PHE:HZ	1.78	0.48
1:1E:9:MET:HE1	1:2G:67:VAL:CG1	2.42	0.48
1:3A:8:LEU:HG	1:3A:11:SER:HB3	1.95	0.48
1:3M:25:SER:OG	1:3M:29:TRP:NE1	2.31	0.48
1:3O:25:SER:O	1:3O:29:TRP:HD1	1.97	0.48
1:4B:45:THR:HG21	1:4B:50:PHE:HZ	1.78	0.48
1:4G:25:SER:O	1:4G:29:TRP:HD1	1.96	0.48
1:4G:45:THR:HG21	1:4G:50:PHE:HZ	1.78	0.48
1:3E:13:ASN:HD21	1:4G:63:VAL:HA	1.78	0.48
1:4J:57:ILE:HD11	1:4K:42:TYR:HD2	1.79	0.48
1:4L:9:MET:CE	1:5O:58:SER:CB	2.91	0.48
1:4N:45:THR:HG21	1:4N:50:PHE:HZ	1.78	0.48
1:5I:25:SER:O	1:5I:29:TRP:HD1	1.97	0.48
1:5I:63:VAL:O	1:5I:67:VAL:HG23	2.13	0.48
1:5J:63:VAL:O	1:5J:67:VAL:HG23	2.13	0.48
1:5L:8:LEU:HG	1:5L:11:SER:HB3	1.95	0.48
1:1F:25:SER:O	1:1F:29:TRP:HD1	1.97	0.48
1:1F:8:LEU:HG	1:1F:11:SER:HB3	1.95	0.48
1:1J:25:SER:O	1:1J:29:TRP:HD1	1.97	0.48
1:2B:45:THR:HG21	1:2B:50:PHE:HZ	1.78	0.48
1:2G:25:SER:O	1:2G:29:TRP:HD1	1.97	0.48
1:2O:63:VAL:O	1:2O:67:VAL:HG23	2.13	0.48
1:3B:45:THR:HG21	1:3B:50:PHE:HZ	1.78	0.48
1:3C:45:THR:HG21	1:3C:50:PHE:HZ	1.78	0.48
1:3D:63:VAL:O	1:3D:67:VAL:HG23	2.13	0.48
1:3F:8:LEU:HG	1:3F:11:SER:HB3	1.95	0.48
1:4A:25:SER:O	1:4A:29:TRP:HD1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4I:8:LEU:HG	1:4I:11:SER:HB3	1.94	0.48
1:3H:9:MET:SD	1:4K:58:SER:CB	3.02	0.48
1:4N:25:SER:OG	1:4N:29:TRP:NE1	2.31	0.48
1:5C:25:SER:O	1:5C:29:TRP:HD1	1.97	0.48
1:5G:8:LEU:HG	1:5G:11:SER:HB3	1.95	0.48
1:5M:63:VAL:O	1:5M:67:VAL:HG23	2.13	0.48
1:1C:63:VAL:HA	1:5A:13:ASN:HD21	1.79	0.48
1:1E:25:SER:O	1:1E:29:TRP:HD1	1.97	0.48
1:1E:8:LEU:HG	1:1E:11:SER:HB3	1.95	0.48
1:1G:25:SER:O	1:1G:29:TRP:HD1	1.96	0.48
1:2A:25:SER:O	1:2A:29:TRP:HD1	1.97	0.48
1:2G:57:ILE:HD11	1:2H:42:TYR:HD2	1.78	0.48
1:2H:8:LEU:HG	1:2H:11:SER:HB3	1.94	0.48
1:3C:25:SER:O	1:3C:29:TRP:HD1	1.96	0.48
1:3E:25:SER:O	1:3E:29:TRP:HD1	1.97	0.48
1:3I:25:SER:O	1:3I:29:TRP:HD1	1.96	0.48
1:3L:8:LEU:HG	1:3L:11:SER:HB3	1.95	0.48
1:3O:63:VAL:O	1:3O:67:VAL:HG23	2.13	0.48
1:4M:45:THR:HG21	1:4M:50:PHE:HZ	1.78	0.48
1:5D:25:SER:O	1:5D:29:TRP:HD1	1.97	0.48
1:5G:25:SER:O	1:5G:29:TRP:HD1	1.97	0.48
1:5N:25:SER:O	1:5N:29:TRP:HD1	1.96	0.48
1:1K:8:LEU:HG	1:1K:11:SER:HB3	1.95	0.48
1:1M:63:VAL:O	1:1M:67:VAL:HG23	2.13	0.48
1:2L:25:SER:O	1:2L:29:TRP:HD1	1.97	0.48
1:3B:25:SER:O	1:3B:29:TRP:HD1	1.96	0.48
1:3H:45:THR:HG21	1:3H:50:PHE:HZ	1.78	0.48
1:3L:45:THR:HG21	1:3L:50:PHE:HZ	1.78	0.48
1:4C:25:SER:O	1:4C:29:TRP:HD1	1.97	0.48
1:4F:63:VAL:O	1:4F:67:VAL:HG23	2.13	0.48
1:4G:63:VAL:O	1:4G:67:VAL:HG23	2.13	0.48
1:4L:25:SER:O	1:4L:29:TRP:HD1	1.97	0.48
1:4L:25:SER:OG	1:4L:29:TRP:NE1	2.31	0.48
1:5I:45:THR:HG21	1:5I:50:PHE:HZ	1.78	0.48
1:1E:45:THR:HG21	1:1E:50:PHE:HZ	1.78	0.48
1:2D:45:THR:HG21	1:2D:50:PHE:HZ	1.78	0.48
1:3I:57:ILE:HD11	1:3J:42:TYR:HD2	1.79	0.48
1:4F:9:MET:HE2	1:5H:67:VAL:HG11	1.80	0.48
1:4G:57:ILE:HD11	1:4H:42:TYR:HD2	1.79	0.48
1:4O:25:SER:O	1:4O:29:TRP:HD1	1.97	0.48
1:5B:8:LEU:HG	1:5B:11:SER:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:25:SER:O	1:1A:29:TRP:HD1	1.97	0.47
1:1L:8:LEU:O	1:1L:11:SER:OG	2.22	0.47
1:2G:45:THR:HG21	1:2G:50:PHE:HZ	1.78	0.47
1:2H:63:VAL:O	1:2H:67:VAL:HG23	2.13	0.47
1:2K:25:SER:O	1:2K:29:TRP:HD1	1.97	0.47
1:3N:25:SER:O	1:3N:29:TRP:HD1	1.96	0.47
1:4A:13:ASN:HD21	1:5C:63:VAL:HA	1.79	0.47
1:4K:25:SER:O	1:4K:29:TRP:HD1	1.97	0.47
1:4L:45:THR:HG21	1:4L:50:PHE:HZ	1.78	0.47
1:5H:45:THR:HG21	1:5H:50:PHE:HZ	1.78	0.47
1:5J:57:ILE:HD11	1:5K:42:TYR:HD2	1.79	0.47
1:5M:25:SER:O	1:5M:29:TRP:HD1	1.97	0.47
1:1H:13:ASN:HD21	1:2J:63:VAL:CA	2.27	0.47
1:1O:25:SER:O	1:1O:29:TRP:HD1	1.97	0.47
1:2J:45:THR:HG21	1:2J:50:PHE:HZ	1.78	0.47
1:3C:63:VAL:O	1:3C:67:VAL:HG23	2.13	0.47
1:3L:57:ILE:HD11	1:3M:42:TYR:HD2	1.78	0.47
1:4J:45:THR:HG21	1:4J:50:PHE:HZ	1.78	0.47
1:3L:9:MET:CE	1:4O:58:SER:CB	2.91	0.47
1:5H:25:SER:O	1:5H:29:TRP:HD1	1.97	0.47
1:5I:57:ILE:HD11	1:5J:42:TYR:HD2	1.79	0.47
1:5K:45:THR:HG21	1:5K:50:PHE:HZ	1.78	0.47
1:4H:9:MET:SD	1:5K:58:SER:CB	3.02	0.47
1:5L:45:THR:HG21	1:5L:50:PHE:HZ	1.78	0.47
1:1G:57:ILE:HD11	1:1H:42:TYR:HD2	1.79	0.47
1:1H:45:THR:HG21	1:1H:50:PHE:HZ	1.78	0.47
1:2I:9:MET:HE1	1:3K:67:VAL:HG11	1.97	0.47
1:4I:57:ILE:HD11	1:4J:42:TYR:HD2	1.79	0.47
1:4M:25:SER:O	1:4M:29:TRP:HD1	1.97	0.47
1:5D:45:THR:HG21	1:5D:50:PHE:HZ	1.78	0.47
1:5F:25:SER:O	1:5F:29:TRP:HD1	1.96	0.47
1:1I:25:SER:O	1:1I:29:TRP:HD1	1.97	0.47
1:1L:25:SER:OG	1:1L:29:TRP:NE1	2.31	0.47
1:2C:25:SER:O	1:2C:29:TRP:HD1	1.96	0.47
1:2I:45:THR:HG21	1:2I:50:PHE:HZ	1.78	0.47
1:4F:25:SER:O	1:4F:29:TRP:HD1	1.97	0.47
1:2B:25:SER:O	1:2B:29:TRP:HD1	1.96	0.47
1:3I:45:THR:HG21	1:3I:50:PHE:HZ	1.78	0.47
1:3K:45:THR:HG21	1:3K:50:PHE:HZ	1.78	0.47
1:1D:25:SER:OG	1:1D:29:TRP:NE1	2.31	0.47
1:1D:63:VAL:CB	1:5B:13:ASN:HD21	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2I:25:SER:O	1:2I:29:TRP:HD1	1.97	0.47
1:3F:45:THR:HG21	1:3F:50:PHE:HZ	1.78	0.47
1:3G:45:THR:HG21	1:3G:50:PHE:HZ	1.78	0.47
1:3J:25:SER:O	1:3J:29:TRP:HD1	1.97	0.47
1:4E:25:SER:O	1:4E:29:TRP:HD1	1.97	0.47
1:1L:63:VAL:HG12	1:5J:13:ASN:HB3	1.96	0.47
1:1G:45:THR:HG21	1:1G:50:PHE:HZ	1.78	0.47
1:2I:57:ILE:HD11	1:2J:42:TYR:HD2	1.79	0.47
1:1I:9:MET:HB3	1:2K:67:VAL:CG2	2.44	0.47
1:2L:57:ILE:HD11	1:2M:42:TYR:HD2	1.78	0.47
1:3D:25:SER:O	1:3D:29:TRP:HD1	1.97	0.47
1:3A:13:ASN:HD21	1:4C:63:VAL:HA	1.79	0.47
1:4D:45:THR:HG21	1:4D:50:PHE:HZ	1.78	0.47
1:5F:45:THR:HG21	1:5F:50:PHE:HZ	1.78	0.47
1:5O:25:SER:O	1:5O:29:TRP:HD1	1.97	0.47
1:1B:13:ASN:HD21	1:2D:63:VAL:CA	2.28	0.47
1:1F:25:SER:OG	1:1F:29:TRP:NE1	2.31	0.47
1:1F:45:THR:HG21	1:1F:50:PHE:HZ	1.78	0.47
1:2J:57:ILE:HD11	1:2K:42:TYR:HD2	1.79	0.47
1:3D:45:THR:HG21	1:3D:50:PHE:HZ	1.78	0.47
1:3J:57:ILE:HD11	1:3K:42:TYR:HD2	1.79	0.47
1:3L:25:SER:O	1:3L:29:TRP:HD1	1.97	0.47
1:5E:45:THR:HG21	1:5E:50:PHE:HZ	1.78	0.47
1:5F:57:ILE:HD11	1:5G:42:TYR:HD2	1.78	0.47
1:1B:34:GLU:OE1	1:1C:43:MET:HG2	2.15	0.47
1:2A:25:SER:OG	1:2A:29:TRP:NE1	2.31	0.47
1:2A:8:LEU:O	1:2A:11:SER:OG	2.22	0.47
1:2H:45:THR:HG21	1:2H:50:PHE:HZ	1.78	0.47
1:2A:13:ASN:HD21	1:3C:63:VAL:HA	1.79	0.47
1:4E:45:THR:HG21	1:4E:50:PHE:HZ	1.78	0.47
1:5E:25:SER:OG	1:5E:29:TRP:NE1	2.31	0.47
1:4F:9:MET:HE3	1:5H:67:VAL:HG13	1.83	0.47
1:2H:9:MET:SD	1:3K:58:SER:CB	3.02	0.47
1:1E:16:VAL:HG21	1:1F:29:TRP:CZ2	2.50	0.47
1:5F:8:LEU:O	1:5F:11:SER:OG	2.22	0.47
1:3J:45:THR:HG21	1:3J:50:PHE:HZ	1.78	0.46
1:5O:25:SER:OG	1:5O:29:TRP:NE1	2.31	0.46
1:1J:58:SER:CB	1:5G:9:MET:CE	2.94	0.46
1:2B:34:GLU:CD	1:2C:46:LYS:NZ	2.69	0.46
1:1C:9:MET:CE	1:2E:67:VAL:HG11	2.38	0.46
1:3B:34:GLU:CD	1:3C:46:LYS:NZ	2.69	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3L:16:VAL:HG21	1:3M:29:TRP:CZ2	2.51	0.46
1:5B:34:GLU:CD	1:5C:46:LYS:NZ	2.69	0.46
1:1C:8:LEU:O	1:1C:11:SER:OG	2.22	0.46
1:2B:34:GLU:OE1	1:2C:43:MET:HG2	2.15	0.46
1:1K:13:ASN:CB	1:2M:63:VAL:HG12	2.36	0.46
1:4A:8:LEU:CB	1:4B:19:THR:HA	2.40	0.46
1:4F:45:THR:HG21	1:4F:50:PHE:HZ	1.78	0.46
1:4I:45:THR:HG21	1:4I:50:PHE:HZ	1.78	0.46
1:1C:67:VAL:HG11	1:5A:9:MET:HE1	1.97	0.46
1:5G:57:ILE:HD11	1:5H:42:TYR:HD2	1.79	0.46
1:5N:34:GLU:OE1	1:5O:46:LYS:NZ	2.45	0.46
1:2I:60:PHE:HE2	1:2J:39:ALA:HB2	1.81	0.46
1:5L:16:VAL:HG21	1:5M:29:TRP:CZ2	2.51	0.46
1:1L:16:VAL:HG21	1:1M:29:TRP:CZ2	2.51	0.46
1:2A:9:MET:HE1	1:3C:67:VAL:CG1	2.44	0.46
1:4N:8:LEU:O	1:4N:11:SER:OG	2.22	0.46
1:1B:34:GLU:CD	1:1C:46:LYS:NZ	2.69	0.46
1:1F:60:PHE:HE2	1:1G:39:ALA:HB2	1.81	0.46
1:1I:60:PHE:HE2	1:1J:39:ALA:HB2	1.81	0.46
1:3I:60:PHE:HE2	1:3J:39:ALA:HB2	1.81	0.46
1:1I:57:ILE:HD11	1:1J:42:TYR:HD2	1.79	0.46
1:1B:13:ASN:HD22	1:2D:63:VAL:HG12	0.63	0.46
1:2F:60:PHE:HE2	1:2G:39:ALA:HB2	1.81	0.46
1:2L:16:VAL:HG21	1:2M:29:TRP:CZ2	2.51	0.46
1:1K:13:ASN:CB	1:2M:63:VAL:CG1	2.92	0.46
1:3B:34:GLU:OE1	1:3C:43:MET:HG2	2.15	0.46
1:3E:16:VAL:HG21	1:3F:29:TRP:CZ2	2.50	0.46
1:4I:25:SER:OG	1:4I:29:TRP:NE1	2.31	0.46
1:4K:57:ILE:HD11	1:4L:42:TYR:HD2	1.81	0.46
1:1M:9:MET:HE2	1:2O:67:VAL:HG13	1.90	0.46
1:2N:57:ILE:HD11	1:2O:42:TYR:CD2	2.51	0.46
1:3E:13:ASN:HD21	1:4G:63:VAL:CG1	1.97	0.46
1:5B:34:GLU:OE1	1:5C:43:MET:HG2	2.15	0.46
1:5E:16:VAL:HG21	1:5F:29:TRP:CZ2	2.50	0.46
1:4B:34:GLU:OE1	1:4C:43:MET:HG2	2.15	0.46
1:4L:16:VAL:HG21	1:4M:29:TRP:CZ2	2.51	0.46
1:1G:67:VAL:HG13	1:5E:9:MET:CE	2.46	0.46
1:2E:57:ILE:HD11	1:2F:42:TYR:HD2	1.81	0.46
1:2K:37:VAL:HG12	2:3L:101:6V6:C2	2.46	0.46
1:4E:16:VAL:HG21	1:4F:29:TRP:CZ2	2.50	0.46
1:4M:13:ASN:HD21	1:5O:63:VAL:HB	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4N:57:ILE:HD11	1:4O:42:TYR:CD2	2.51	0.46
1:4K:37:VAL:HG12	2:5L:101:6V6:C2	2.46	0.46
1:1H:8:LEU:O	1:1H:11:SER:OG	2.22	0.45
1:3H:57:ILE:HD11	1:3I:42:TYR:HD2	1.82	0.45
1:3L:60:PHE:HE2	1:3M:39:ALA:HB2	1.82	0.45
1:4B:34:GLU:CD	1:4C:46:LYS:NZ	2.69	0.45
1:1J:57:ILE:HD11	1:1K:42:TYR:HD2	1.79	0.45
1:4L:60:PHE:HE2	1:4M:39:ALA:HB2	1.82	0.45
1:1G:13:ASN:HD21	1:2I:63:VAL:HA	1.82	0.45
1:1F:16:VAL:HG21	1:1G:29:TRP:CZ2	2.52	0.45
1:2E:16:VAL:HG21	1:2F:29:TRP:CZ2	2.50	0.45
1:2L:60:PHE:HE2	1:2M:39:ALA:HB2	1.82	0.45
1:3M:13:ASN:HD21	1:4O:63:VAL:HB	1.81	0.45
1:4B:33:ALA:HA	1:4B:36:LEU:HD12	1.99	0.45
1:5F:60:PHE:HE2	1:5G:39:ALA:HB2	1.81	0.45
1:5M:16:VAL:HG21	1:5N:29:TRP:CZ2	2.52	0.45
1:5N:57:ILE:HD11	1:5O:42:TYR:CD2	2.51	0.45
1:1L:13:ASN:ND2	1:2N:63:VAL:CA	2.37	0.45
1:2G:33:ALA:HA	1:2G:36:LEU:HD12	1.99	0.45
1:2I:33:ALA:HA	1:2I:36:LEU:HD12	1.99	0.45
1:3F:16:VAL:HG21	1:3G:29:TRP:CZ2	2.52	0.45
1:3M:16:VAL:HG21	1:3N:29:TRP:CZ2	2.52	0.45
1:3K:37:VAL:HG12	2:4L:101:6V6:C2	2.46	0.45
1:4O:33:ALA:HA	1:4O:36:LEU:HD12	1.99	0.45
1:5C:33:ALA:HA	1:5C:36:LEU:HD12	1.99	0.45
1:5K:57:ILE:HD11	1:5L:42:TYR:HD2	1.81	0.45
1:1A:25:SER:OG	1:1A:29:TRP:NE1	2.31	0.45
1:1D:33:ALA:HA	1:1D:36:LEU:HD12	1.99	0.45
1:1H:33:ALA:HA	1:1H:36:LEU:HD12	1.99	0.45
2:1I:101:6V6:C2	1:5H:37:VAL:HG12	2.46	0.45
1:2K:33:ALA:HA	1:2K:36:LEU:HD12	1.99	0.45
1:3D:70:LEU:C	1:3E:28:LYS:HD3	2.37	0.45
1:3F:8:LEU:O	1:3F:11:SER:OG	2.22	0.45
1:3L:33:ALA:HA	1:3L:36:LEU:HD12	1.99	0.45
1:4F:13:ASN:ND2	1:5H:63:VAL:HA	2.32	0.45
1:4K:33:ALA:HA	1:4K:36:LEU:HD12	1.99	0.45
1:4M:33:ALA:HA	1:4M:36:LEU:HD12	1.99	0.45
1:5A:33:ALA:HA	1:5A:36:LEU:HD12	1.99	0.45
1:5D:70:LEU:C	1:5E:28:LYS:HD3	2.37	0.45
1:5E:33:ALA:HA	1:5E:36:LEU:HD12	1.99	0.45
1:5L:60:PHE:HE2	1:5M:39:ALA:HB2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5N:33:ALA:HA	1:5N:36:LEU:HD12	1.99	0.45
1:1F:33:ALA:HA	1:1F:36:LEU:HD12	1.99	0.45
1:1K:25:SER:OG	1:1K:29:TRP:NE1	2.31	0.45
1:1M:16:VAL:HG21	1:1N:29:TRP:CZ2	2.52	0.45
1:2C:6:GLN:HB2	1:2D:15:THR:CG2	2.47	0.45
1:3A:33:ALA:HA	1:3A:36:LEU:HD12	1.99	0.45
1:3H:33:ALA:HA	1:3H:36:LEU:HD12	1.99	0.45
1:3J:33:ALA:HA	1:3J:36:LEU:HD12	1.99	0.45
1:3N:33:ALA:HA	1:3N:36:LEU:HD12	1.99	0.45
1:3N:57:ILE:HD11	1:3O:42:TYR:CD2	2.51	0.45
1:4A:33:ALA:HA	1:4A:36:LEU:HD12	1.99	0.45
1:4I:60:PHE:HE2	1:4J:39:ALA:HB2	1.81	0.45
1:5C:6:GLN:HB2	1:5D:15:THR:CG2	2.47	0.45
1:1D:70:LEU:C	1:1E:28:LYS:HD3	2.37	0.45
1:1E:33:ALA:HA	1:1E:36:LEU:HD12	1.99	0.45
1:1G:33:ALA:HA	1:1G:36:LEU:HD12	1.99	0.45
1:1O:33:ALA:HA	1:1O:36:LEU:HD12	1.99	0.45
1:2E:33:ALA:HA	1:2E:36:LEU:HD12	1.99	0.45
1:2G:25:SER:OG	1:2G:29:TRP:NE1	2.31	0.45
1:3A:8:LEU:CB	1:3B:19:THR:HA	2.40	0.45
1:3I:33:ALA:HA	1:3I:36:LEU:HD12	1.99	0.45
1:4C:33:ALA:HA	1:4C:36:LEU:HD12	1.99	0.45
1:4L:33:ALA:HA	1:4L:36:LEU:HD12	1.99	0.45
1:4M:16:VAL:HG21	1:4N:29:TRP:CZ2	2.52	0.45
1:5F:16:VAL:HG21	1:5G:29:TRP:CZ2	2.52	0.45
1:5I:60:PHE:HE2	1:5J:39:ALA:HB2	1.81	0.45
1:1B:13:ASN:HD21	1:2D:63:VAL:CB	2.30	0.45
1:3M:33:ALA:HA	1:3M:36:LEU:HD12	1.99	0.45
1:4C:13:ASN:HD21	1:5E:63:VAL:CA	2.30	0.45
1:4D:33:ALA:HA	1:4D:36:LEU:HD12	1.99	0.45
1:4H:57:ILE:HD11	1:4I:42:TYR:HD2	1.82	0.45
1:5B:33:ALA:HA	1:5B:36:LEU:HD12	1.99	0.45
1:5O:33:ALA:HA	1:5O:36:LEU:HD12	1.99	0.45
1:1B:33:ALA:HA	1:1B:36:LEU:HD12	1.99	0.45
1:1H:67:VAL:CG1	1:5F:9:MET:CE	2.94	0.45
1:1I:33:ALA:HA	1:1I:36:LEU:HD12	1.99	0.45
1:1N:34:GLU:OE1	1:1O:46:LYS:NZ	2.45	0.45
1:2F:33:ALA:HA	1:2F:36:LEU:HD12	1.99	0.45
1:2H:33:ALA:HA	1:2H:36:LEU:HD12	1.99	0.45
1:2J:33:ALA:HA	1:2J:36:LEU:HD12	1.99	0.45
1:3K:33:ALA:HA	1:3K:36:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4I:8:LEU:O	1:4I:11:SER:OG	2.22	0.45
1:4N:33:ALA:HA	1:4N:36:LEU:HD12	1.99	0.45
1:5L:33:ALA:HA	1:5L:36:LEU:HD12	1.99	0.45
1:5M:33:ALA:HA	1:5M:36:LEU:HD12	1.99	0.45
1:1F:67:VAL:HG13	1:5D:9:MET:CE	2.47	0.45
1:1E:9:MET:HE1	1:2G:67:VAL:HG13	1.89	0.45
1:2M:33:ALA:HA	1:2M:36:LEU:HD12	1.99	0.45
1:2M:16:VAL:HG21	1:2N:29:TRP:CZ2	2.52	0.45
1:3B:33:ALA:HA	1:3B:36:LEU:HD12	1.99	0.45
1:3F:13:ASN:ND2	1:4H:63:VAL:HA	2.32	0.45
1:3H:25:SER:OG	1:3H:29:TRP:NE1	2.31	0.45
1:3O:33:ALA:HA	1:3O:36:LEU:HD12	1.99	0.45
1:1C:67:VAL:CG1	1:5A:9:MET:CE	2.81	0.45
1:5D:33:ALA:HA	1:5D:36:LEU:HD12	1.99	0.45
1:5G:33:ALA:HA	1:5G:36:LEU:HD12	1.99	0.45
1:5L:25:SER:OG	1:5L:29:TRP:NE1	2.31	0.45
1:5L:8:LEU:O	1:5L:11:SER:OG	2.22	0.45
1:1C:33:ALA:HA	1:1C:36:LEU:HD12	1.99	0.44
1:1J:33:ALA:HA	1:1J:36:LEU:HD12	1.99	0.44
1:1J:58:SER:HG	1:5G:9:MET:CE	2.06	0.44
1:1N:33:ALA:HA	1:1N:36:LEU:HD12	1.99	0.44
1:1N:57:ILE:HD11	1:1O:42:TYR:CD2	2.51	0.44
1:2D:70:LEU:C	1:2E:28:LYS:HD3	2.37	0.44
1:2I:16:VAL:HG21	1:2J:29:TRP:CZ2	2.52	0.44
1:2K:57:ILE:HD11	1:2L:42:TYR:HD2	1.81	0.44
1:2M:13:ASN:HD21	1:3O:63:VAL:HB	1.81	0.44
1:3C:13:ASN:HD21	1:4E:63:VAL:CA	2.30	0.44
1:3E:57:ILE:HD11	1:3F:42:TYR:HD2	1.81	0.44
1:4A:9:MET:CE	1:5C:67:VAL:CG1	2.81	0.44
1:4I:16:VAL:HG21	1:4J:29:TRP:CZ2	2.53	0.44
1:4J:33:ALA:HA	1:4J:36:LEU:HD12	1.99	0.44
1:4N:34:GLU:OE1	1:4O:46:LYS:NZ	2.45	0.44
1:5A:13:ASN:O	1:5A:14:THR:OG1	2.35	0.44
1:5F:33:ALA:HA	1:5F:36:LEU:HD12	1.99	0.44
1:1E:57:ILE:HD11	1:1F:42:TYR:HD2	1.81	0.44
1:1L:60:PHE:HE2	1:1M:39:ALA:HB2	1.82	0.44
1:2C:8:LEU:O	1:2C:11:SER:OG	2.22	0.44
1:2D:25:SER:OG	1:2D:29:TRP:NE1	2.31	0.44
1:2H:16:VAL:HG21	1:2I:29:TRP:CZ2	2.53	0.44
1:2L:33:ALA:HA	1:2L:36:LEU:HD12	1.99	0.44
1:3F:60:PHE:HE2	1:3G:39:ALA:HB2	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4I:33:ALA:HA	1:4I:36:LEU:HD12	1.99	0.44
1:1E:13:ASN:O	1:1E:14:THR:OG1	2.35	0.44
1:1K:57:ILE:HD11	1:1L:42:TYR:HD2	1.81	0.44
1:4E:33:ALA:HA	1:4E:36:LEU:HD12	1.99	0.44
1:4F:16:VAL:HG21	1:4G:29:TRP:CZ2	2.52	0.44
1:4F:60:PHE:HE2	1:4G:39:ALA:HB2	1.81	0.44
1:5K:33:ALA:HA	1:5K:36:LEU:HD12	1.99	0.44
1:1D:31:VAL:HA	1:1D:34:GLU:HB3	2.00	0.44
1:1L:33:ALA:HA	1:1L:36:LEU:HD12	1.99	0.44
1:1M:8:LEU:O	1:1M:11:SER:OG	2.22	0.44
1:1O:31:VAL:HA	1:1O:34:GLU:HB3	2.00	0.44
1:2A:33:ALA:HA	1:2A:36:LEU:HD12	1.99	0.44
1:2C:33:ALA:HA	1:2C:36:LEU:HD12	1.99	0.44
1:2E:31:VAL:HA	1:2E:34:GLU:HB3	2.00	0.44
1:2N:33:ALA:HA	1:2N:36:LEU:HD12	1.99	0.44
1:3E:33:ALA:HA	1:3E:36:LEU:HD12	1.99	0.44
1:3F:33:ALA:HA	1:3F:36:LEU:HD12	1.99	0.44
1:3G:33:ALA:HA	1:3G:36:LEU:HD12	1.99	0.44
1:4D:70:LEU:C	1:4E:28:LYS:HD3	2.37	0.44
1:4H:16:VAL:HG21	1:4I:29:TRP:CZ2	2.53	0.44
1:1A:31:VAL:HA	1:1A:34:GLU:HB3	2.00	0.44
1:1B:31:VAL:HA	1:1B:34:GLU:HB3	2.00	0.44
1:1C:31:VAL:HA	1:1C:34:GLU:HB3	2.00	0.44
1:1K:33:ALA:HA	1:1K:36:LEU:HD12	1.99	0.44
1:1M:31:VAL:HA	1:1M:34:GLU:HB3	2.00	0.44
1:1N:31:VAL:HA	1:1N:34:GLU:HB3	2.00	0.44
1:2B:31:VAL:HA	1:2B:34:GLU:HB3	2.00	0.44
1:2B:33:ALA:HA	1:2B:36:LEU:HD12	1.99	0.44
1:2C:31:VAL:HA	1:2C:34:GLU:HB3	2.00	0.44
1:2D:33:ALA:HA	1:2D:36:LEU:HD12	1.99	0.44
1:2F:31:VAL:HA	1:2F:34:GLU:HB3	2.00	0.44
1:2F:16:VAL:HG21	1:2G:29:TRP:CZ2	2.52	0.44
1:2O:31:VAL:HA	1:2O:34:GLU:HB3	2.00	0.44
1:3H:31:VAL:HA	1:3H:34:GLU:HB3	2.00	0.44
1:2F:13:ASN:ND2	1:3H:63:VAL:HA	2.32	0.44
1:3K:57:ILE:HD11	1:3L:42:TYR:HD2	1.81	0.44
1:4F:33:ALA:HA	1:4F:36:LEU:HD12	1.99	0.44
1:4F:14:THR:HB	1:4F:70:LEU:HD21	2.00	0.44
1:4H:33:ALA:HA	1:4H:36:LEU:HD12	1.99	0.44
1:4N:13:ASN:O	1:4N:14:THR:OG1	2.35	0.44
1:1F:63:VAL:CA	1:5D:13:ASN:HD21	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5H:33:ALA:HA	1:5H:36:LEU:HD12	1.99	0.44
1:5I:33:ALA:HA	1:5I:36:LEU:HD12	1.99	0.44
1:5I:16:VAL:HG21	1:5J:29:TRP:CZ2	2.53	0.44
1:5J:31:VAL:HA	1:5J:34:GLU:HB3	2.00	0.44
1:5K:31:VAL:HA	1:5K:34:GLU:HB3	2.00	0.44
1:5L:31:VAL:HA	1:5L:34:GLU:HB3	2.00	0.44
1:5N:31:VAL:HA	1:5N:34:GLU:HB3	2.00	0.44
1:1E:31:VAL:HA	1:1E:34:GLU:HB3	2.00	0.44
1:1L:31:VAL:HA	1:1L:34:GLU:HB3	2.00	0.44
1:2A:31:VAL:HA	1:2A:34:GLU:HB3	2.00	0.44
1:2D:31:VAL:HA	1:2D:34:GLU:HB3	2.00	0.44
1:2G:31:VAL:HA	1:2G:34:GLU:HB3	2.00	0.44
1:2I:25:SER:OG	1:2I:29:TRP:NE1	2.31	0.44
1:2N:14:THR:HB	1:2N:70:LEU:HD21	2.00	0.44
1:2N:31:VAL:HA	1:2N:34:GLU:HB3	2.00	0.44
1:2O:33:ALA:HA	1:2O:36:LEU:HD12	1.99	0.44
1:3D:31:VAL:HA	1:3D:34:GLU:HB3	2.00	0.44
1:3I:31:VAL:HA	1:3I:34:GLU:HB3	2.00	0.44
1:4I:31:VAL:HA	1:4I:34:GLU:HB3	2.00	0.44
1:5B:31:VAL:HA	1:5B:34:GLU:HB3	2.00	0.44
1:5E:57:ILE:HD11	1:5F:42:TYR:HD2	1.81	0.44
1:5I:31:VAL:HA	1:5I:34:GLU:HB3	2.00	0.44
1:5I:14:THR:HB	1:5I:70:LEU:HD21	2.00	0.44
1:5M:31:VAL:HA	1:5M:34:GLU:HB3	2.00	0.44
1:1A:33:ALA:HA	1:1A:36:LEU:HD12	1.99	0.44
1:1H:57:ILE:HD11	1:1I:42:TYR:HD2	1.82	0.44
1:1J:14:THR:HB	1:1J:70:LEU:HD21	2.00	0.44
1:1K:31:VAL:HA	1:1K:34:GLU:HB3	2.00	0.44
1:2B:14:THR:HB	1:2B:70:LEU:HD21	2.00	0.44
1:2H:31:VAL:HA	1:2H:34:GLU:HB3	2.00	0.44
1:2H:57:ILE:HD11	1:2I:42:TYR:HD2	1.82	0.44
1:3C:31:VAL:HA	1:3C:34:GLU:HB3	2.00	0.44
1:3C:33:ALA:HA	1:3C:36:LEU:HD12	1.99	0.44
1:3C:14:THR:HB	1:3C:70:LEU:HD21	2.00	0.44
1:3E:31:VAL:HA	1:3E:34:GLU:HB3	2.00	0.44
1:3E:14:THR:HB	1:3E:70:LEU:HD21	2.00	0.44
1:3F:31:VAL:HA	1:3F:34:GLU:HB3	2.00	0.44
1:4B:16:VAL:HG21	1:4C:29:TRP:CH2	2.53	0.44
1:4H:31:VAL:HA	1:4H:34:GLU:HB3	2.00	0.44
1:4K:31:VAL:HA	1:4K:34:GLU:HB3	2.00	0.44
1:1F:63:VAL:HA	1:5D:13:ASN:HD21	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5J:33:ALA:HA	1:5J:36:LEU:HD12	1.99	0.44
1:5O:31:VAL:HA	1:5O:34:GLU:HB3	2.00	0.44
2:1E:101:6V6:C1	1:5D:37:VAL:HG12	2.48	0.44
1:1L:14:THR:HB	1:1L:70:LEU:HD21	2.00	0.44
1:2E:13:ASN:HD21	1:3G:63:VAL:CG1	1.97	0.44
1:2J:46:LYS:HD3	1:2J:46:LYS:HA	1.78	0.44
1:3D:33:ALA:HA	1:3D:36:LEU:HD12	1.99	0.44
1:4D:14:THR:HB	1:4D:70:LEU:HD21	2.00	0.44
1:4G:31:VAL:HA	1:4G:34:GLU:HB3	2.00	0.44
1:4L:31:VAL:HA	1:4L:34:GLU:HB3	2.00	0.44
1:4L:8:LEU:O	1:4L:11:SER:OG	2.22	0.44
1:5G:14:THR:HB	1:5G:70:LEU:HD21	2.00	0.44
1:5H:16:VAL:HG21	1:5I:29:TRP:CZ2	2.53	0.44
1:1C:6:GLN:HB2	1:1D:15:THR:CG2	2.47	0.44
1:1F:31:VAL:HA	1:1F:34:GLU:HB3	2.00	0.44
1:1J:64:GLY:HA3	1:1K:54:PHE:HE1	1.83	0.44
1:1K:14:THR:HB	1:1K:70:LEU:HD21	2.00	0.44
1:1M:33:ALA:HA	1:1M:36:LEU:HD12	1.99	0.44
1:2L:46:LYS:HA	1:2L:46:LYS:HD3	1.78	0.44
1:2M:31:VAL:HA	1:2M:34:GLU:HB3	2.00	0.44
1:3A:8:LEU:O	1:3A:11:SER:OG	2.22	0.44
1:3D:14:THR:HB	1:3D:70:LEU:HD21	2.00	0.44
1:3G:31:VAL:HA	1:3G:34:GLU:HB3	2.00	0.44
1:3H:16:VAL:HG21	1:3I:29:TRP:CZ2	2.53	0.44
1:3G:16:VAL:HG21	1:3H:29:TRP:CZ2	2.53	0.44
1:2M:13:ASN:HD22	1:3O:63:VAL:CG1	2.27	0.44
1:3O:14:THR:HB	1:3O:70:LEU:HD21	2.00	0.44
1:4D:8:LEU:O	1:4D:11:SER:OG	2.22	0.44
1:4E:57:ILE:HD11	1:4F:42:TYR:HD2	1.81	0.44
1:4G:33:ALA:HA	1:4G:36:LEU:HD12	1.99	0.44
1:4H:14:THR:HB	1:4H:70:LEU:HD21	2.00	0.44
1:4J:31:VAL:HA	1:4J:34:GLU:HB3	2.00	0.44
1:4M:31:VAL:HA	1:4M:34:GLU:HB3	2.00	0.44
1:3M:13:ASN:ND2	1:4O:63:VAL:HB	2.33	0.44
1:1H:67:VAL:CG1	1:5F:9:MET:HE2	2.48	0.44
1:5H:57:ILE:HD11	1:5I:42:TYR:HD2	1.82	0.44
1:1G:16:VAL:HG21	1:1H:29:TRP:CZ2	2.53	0.43
1:2A:46:LYS:HA	1:2A:46:LYS:HD3	1.78	0.43
1:2C:13:ASN:HD21	1:3E:63:VAL:CA	2.30	0.43
1:2D:14:THR:HB	1:2D:70:LEU:HD21	2.00	0.43
1:2I:31:VAL:HA	1:2I:34:GLU:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:13:ASN:HD21	1:2I:63:VAL:CG1	1.95	0.43
1:2L:14:THR:HB	1:2L:70:LEU:HD21	2.00	0.43
1:2O:8:LEU:O	1:2O:11:SER:OG	2.22	0.43
1:4E:14:THR:HB	1:4E:70:LEU:HD21	2.00	0.43
1:4F:31:VAL:HA	1:4F:34:GLU:HB3	2.00	0.43
1:4G:14:THR:HB	1:4G:70:LEU:HD21	2.00	0.43
1:4N:31:VAL:HA	1:4N:34:GLU:HB3	2.00	0.43
1:5A:31:VAL:HA	1:5A:34:GLU:HB3	2.00	0.43
1:5H:14:THR:HB	1:5H:70:LEU:HD21	2.00	0.43
1:5H:31:VAL:HA	1:5H:34:GLU:HB3	2.00	0.43
1:5J:14:THR:HB	1:5J:70:LEU:HD21	2.00	0.43
1:4M:13:ASN:ND2	1:5O:63:VAL:HB	2.33	0.43
1:1N:14:THR:HB	1:1N:70:LEU:HD21	2.00	0.43
1:2A:14:THR:HB	1:2A:70:LEU:HD21	2.00	0.43
1:2L:31:VAL:HA	1:2L:34:GLU:HB3	2.00	0.43
1:2M:14:THR:HB	1:2M:70:LEU:HD21	2.00	0.43
1:2O:14:THR:HB	1:2O:70:LEU:HD21	2.00	0.43
1:3B:31:VAL:HA	1:3B:34:GLU:HB3	2.00	0.43
1:3B:16:VAL:HG21	1:3C:29:TRP:CH2	2.53	0.43
1:3I:16:VAL:HG21	1:3J:29:TRP:CZ2	2.53	0.43
1:3J:31:VAL:HA	1:3J:34:GLU:HB3	2.00	0.43
1:3K:31:VAL:HA	1:3K:34:GLU:HB3	2.00	0.43
1:5C:31:VAL:HA	1:5C:34:GLU:HB3	2.00	0.43
1:5F:46:LYS:HA	1:5F:46:LYS:HD3	1.78	0.43
1:1G:46:LYS:HD3	1:1G:46:LYS:HA	1.78	0.43
1:1H:60:PHE:HE2	1:1I:39:ALA:HB2	1.84	0.43
1:1I:14:THR:HB	1:1I:70:LEU:HD21	2.00	0.43
1:1J:31:VAL:HA	1:1J:34:GLU:HB3	2.00	0.43
1:1M:14:THR:HB	1:1M:70:LEU:HD21	2.00	0.43
1:2C:14:THR:HB	1:2C:70:LEU:HD21	2.00	0.43
1:2G:16:VAL:HG21	1:2H:29:TRP:CZ2	2.53	0.43
1:3A:14:THR:HB	1:3A:70:LEU:HD21	2.00	0.43
1:3B:14:THR:HB	1:3B:70:LEU:HD21	2.00	0.43
1:3F:14:THR:HB	1:3F:70:LEU:HD21	2.00	0.43
1:3O:31:VAL:HA	1:3O:34:GLU:HB3	2.00	0.43
1:2M:13:ASN:ND2	1:3O:63:VAL:HB	2.33	0.43
1:4C:31:VAL:HA	1:4C:34:GLU:HB3	2.00	0.43
1:4E:31:VAL:HA	1:4E:34:GLU:HB3	2.00	0.43
1:1A:14:THR:HB	1:1A:70:LEU:HD21	2.00	0.43
1:1I:31:VAL:HA	1:1I:34:GLU:HB3	2.00	0.43
1:2H:60:PHE:HE2	1:2I:39:ALA:HB2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2K:31:VAL:HA	1:2K:34:GLU:HB3	2.00	0.43
1:3A:31:VAL:HA	1:3A:34:GLU:HB3	2.00	0.43
1:3B:64:GLY:HA3	1:3C:54:PHE:HE1	1.83	0.43
1:3L:31:VAL:HA	1:3L:34:GLU:HB3	2.00	0.43
1:3N:31:VAL:HA	1:3N:34:GLU:HB3	2.00	0.43
1:4A:31:VAL:HA	1:4A:34:GLU:HB3	2.00	0.43
1:4D:31:VAL:HA	1:4D:34:GLU:HB3	2.00	0.43
1:4O:31:VAL:HA	1:4O:34:GLU:HB3	2.00	0.43
1:5D:31:VAL:HA	1:5D:34:GLU:HB3	2.00	0.43
1:5F:14:THR:HB	1:5F:70:LEU:HD21	2.00	0.43
1:1B:14:THR:HB	1:1B:70:LEU:HD21	2.00	0.43
1:2H:55:ALA:O	1:2H:58:SER:HB3	2.19	0.43
1:3C:6:GLN:HB2	1:3D:15:THR:CG2	2.47	0.43
1:3F:55:ALA:O	1:3F:58:SER:HB3	2.19	0.43
1:3G:14:THR:HB	1:3G:70:LEU:HD21	2.00	0.43
1:3J:13:ASN:O	1:3J:14:THR:OG1	2.35	0.43
1:3L:55:ALA:O	1:3L:58:SER:HB3	2.19	0.43
1:3M:31:VAL:HA	1:3M:34:GLU:HB3	2.00	0.43
1:3M:57:ILE:HD11	1:3N:42:TYR:CD2	2.54	0.43
1:3N:14:THR:HB	1:3N:70:LEU:HD21	2.00	0.43
1:4B:31:VAL:HA	1:4B:34:GLU:HB3	2.00	0.43
1:4H:55:ALA:O	1:4H:58:SER:HB3	2.19	0.43
1:4I:55:ALA:O	1:4I:58:SER:HB3	2.19	0.43
1:4K:25:SER:OG	1:4K:29:TRP:NE1	2.31	0.43
1:5B:64:GLY:HA3	1:5C:54:PHE:HE1	1.83	0.43
1:5B:16:VAL:HG21	1:5C:29:TRP:CH2	2.53	0.43
1:5E:31:VAL:HA	1:5E:34:GLU:HB3	2.00	0.43
1:5K:14:THR:HB	1:5K:70:LEU:HD21	2.00	0.43
1:5L:55:ALA:O	1:5L:58:SER:HB3	2.19	0.43
1:1E:55:ALA:O	1:1E:58:SER:HB3	2.19	0.43
1:1F:55:ALA:O	1:1F:58:SER:HB3	2.19	0.43
1:1G:31:VAL:HA	1:1G:34:GLU:HB3	2.00	0.43
1:1H:14:THR:HB	1:1H:70:LEU:HD21	2.00	0.43
1:1K:8:LEU:O	1:1K:11:SER:OG	2.22	0.43
1:1O:55:ALA:O	1:1O:58:SER:HB3	2.19	0.43
1:2I:55:ALA:O	1:2I:58:SER:HB3	2.19	0.43
1:2J:31:VAL:HA	1:2J:34:GLU:HB3	2.00	0.43
1:3E:55:ALA:O	1:3E:58:SER:HB3	2.19	0.43
1:3H:46:LYS:HA	1:3H:46:LYS:HD3	1.78	0.43
1:3J:14:THR:HB	1:3J:70:LEU:HD21	2.00	0.43
1:3K:55:ALA:O	1:3K:58:SER:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3M:60:PHE:HE2	1:3N:39:ALA:HB2	1.84	0.43
1:4N:55:ALA:O	1:4N:58:SER:HB3	2.19	0.43
1:3M:13:ASN:HD22	1:4O:63:VAL:CG1	2.27	0.43
1:5F:31:VAL:HA	1:5F:34:GLU:HB3	2.00	0.43
1:5G:31:VAL:HA	1:5G:34:GLU:HB3	2.00	0.43
1:1B:16:VAL:HG21	1:1C:29:TRP:CH2	2.53	0.43
1:1E:14:THR:HB	1:1E:70:LEU:HD21	2.00	0.43
1:1G:67:VAL:CG1	1:5E:9:MET:CE	2.96	0.43
1:1I:16:VAL:HG21	1:1J:29:TRP:CZ2	2.52	0.43
1:1K:64:GLY:HA3	1:1L:54:PHE:HE1	1.84	0.43
1:2B:16:VAL:HG21	1:2C:29:TRP:CH2	2.53	0.43
1:2E:46:LYS:HD3	1:2E:46:LYS:HA	1.78	0.43
1:2J:64:GLY:HA3	1:2K:54:PHE:HE1	1.83	0.43
1:2K:14:THR:HB	1:2K:70:LEU:HD21	2.00	0.43
1:3F:70:LEU:C	1:3G:28:LYS:HD3	2.39	0.43
1:3J:64:GLY:HA3	1:3K:54:PHE:HE1	1.83	0.43
1:3K:14:THR:HB	1:3K:70:LEU:HD21	2.00	0.43
1:4C:6:GLN:HB2	1:4D:15:THR:CG2	2.47	0.43
1:4G:16:VAL:HG21	1:4H:29:TRP:CZ2	2.53	0.43
1:4I:14:THR:HB	1:4I:70:LEU:HD21	2.00	0.43
1:4O:55:ALA:O	1:4O:58:SER:HB3	2.19	0.43
1:5E:14:THR:HB	1:5E:70:LEU:HD21	2.00	0.43
1:5K:55:ALA:O	1:5K:58:SER:HB3	2.19	0.43
1:1D:55:ALA:O	1:1D:58:SER:HB3	2.19	0.43
1:1H:16:VAL:HG21	1:1I:29:TRP:CZ2	2.53	0.43
1:1H:31:VAL:HA	1:1H:34:GLU:HB3	2.00	0.43
1:1M:46:LYS:HD3	1:1M:46:LYS:HA	1.78	0.43
1:1M:57:ILE:HD11	1:1N:42:TYR:CD2	2.54	0.43
1:1N:55:ALA:O	1:1N:58:SER:HB3	2.19	0.43
1:1O:14:THR:HB	1:1O:70:LEU:HD21	2.00	0.43
1:3H:55:ALA:O	1:3H:58:SER:HB3	2.19	0.43
1:3M:14:THR:HB	1:3M:70:LEU:HD21	2.00	0.43
1:3M:55:ALA:O	1:3M:58:SER:HB3	2.19	0.43
1:4C:14:THR:HB	1:4C:70:LEU:HD21	2.00	0.43
1:4M:60:PHE:HE2	1:4N:39:ALA:HB2	1.84	0.43
1:5B:55:ALA:O	1:5B:58:SER:HB3	2.19	0.43
1:5G:16:VAL:HG21	1:5H:29:TRP:CZ2	2.53	0.43
1:5O:14:THR:HB	1:5O:70:LEU:HD21	2.00	0.43
1:2A:55:ALA:O	1:2A:58:SER:HB3	2.19	0.43
1:2B:55:ALA:O	1:2B:58:SER:HB3	2.19	0.43
1:2F:55:ALA:O	1:2F:58:SER:HB3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2G:55:ALA:O	1:2G:58:SER:HB3	2.19	0.43
1:3D:55:ALA:O	1:3D:58:SER:HB3	2.19	0.43
1:3H:60:PHE:HE2	1:3I:39:ALA:HB2	1.84	0.43
1:3I:14:THR:HB	1:3I:70:LEU:HD21	2.00	0.43
1:3M:46:LYS:HD3	1:3M:46:LYS:HA	1.78	0.43
1:4B:14:THR:HB	1:4B:70:LEU:HD21	2.00	0.43
1:4F:70:LEU:C	1:4G:28:LYS:HD3	2.39	0.43
1:4J:55:ALA:O	1:4J:58:SER:HB3	2.19	0.43
1:4M:55:ALA:O	1:4M:58:SER:HB3	2.19	0.43
1:5A:55:ALA:O	1:5A:58:SER:HB3	2.19	0.43
1:5G:64:GLY:HA3	1:5H:54:PHE:HE1	1.84	0.43
1:5J:64:GLY:HA3	1:5K:54:PHE:HE1	1.83	0.43
1:5M:55:ALA:O	1:5M:58:SER:HB3	2.19	0.43
1:5N:14:THR:HB	1:5N:70:LEU:HD21	2.00	0.43
1:1B:64:GLY:HA3	1:1C:54:PHE:HE1	1.83	0.43
1:1D:14:THR:HB	1:1D:70:LEU:HD21	2.00	0.43
1:1F:14:THR:HB	1:1F:70:LEU:HD21	2.00	0.43
1:2G:64:GLY:HA3	1:2H:54:PHE:HE1	1.83	0.43
1:2J:55:ALA:O	1:2J:58:SER:HB3	2.19	0.43
1:2K:16:VAL:HG21	1:2L:29:TRP:CZ2	2.54	0.43
1:2K:64:GLY:HA3	1:2L:54:PHE:HE1	1.84	0.43
1:2O:25:SER:OG	1:2O:29:TRP:NE1	2.31	0.43
1:3A:55:ALA:O	1:3A:58:SER:HB3	2.19	0.43
1:3G:55:ALA:O	1:3G:58:SER:HB3	2.19	0.43
1:3J:55:ALA:O	1:3J:58:SER:HB3	2.19	0.43
1:3K:16:VAL:HG21	1:3L:29:TRP:CZ2	2.54	0.43
1:4J:14:THR:HB	1:4J:70:LEU:HD21	2.00	0.43
1:5F:70:LEU:C	1:5G:28:LYS:HD3	2.39	0.43
1:5J:55:ALA:O	1:5J:58:SER:HB3	2.19	0.43
1:5L:14:THR:HB	1:5L:70:LEU:HD21	2.00	0.43
1:5M:60:PHE:HE2	1:5N:39:ALA:HB2	1.84	0.43
1:1C:64:GLY:HA3	1:1D:54:PHE:HE1	1.84	0.42
1:1C:14:THR:HB	1:1C:70:LEU:HD21	2.00	0.42
1:1G:55:ALA:O	1:1G:58:SER:HB3	2.19	0.42
1:1N:63:VAL:HG12	1:5L:13:ASN:ND2	2.34	0.42
1:1O:8:LEU:O	1:1O:11:SER:OG	2.22	0.42
1:2C:55:ALA:O	1:2C:58:SER:HB3	2.19	0.42
1:2D:55:ALA:O	1:2D:58:SER:HB3	2.19	0.42
1:3A:9:MET:CE	1:4C:67:VAL:CG1	2.81	0.42
1:3B:55:ALA:O	1:3B:58:SER:HB3	2.19	0.42
1:3I:55:ALA:O	1:3I:58:SER:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3L:14:THR:HB	1:3L:70:LEU:HD21	2.00	0.42
1:4G:55:ALA:O	1:4G:58:SER:HB3	2.19	0.42
1:4K:55:ALA:O	1:4K:58:SER:HB3	2.19	0.42
1:5O:8:LEU:O	1:5O:11:SER:OG	2.22	0.42
1:1G:14:THR:HB	1:1G:70:LEU:HD21	2.00	0.42
1:1O:25:SER:OG	1:1O:29:TRP:NE1	2.31	0.42
1:2E:14:THR:HB	1:2E:70:LEU:HD21	2.00	0.42
1:2F:14:THR:HB	1:2F:70:LEU:HD21	2.00	0.42
1:2J:14:THR:HB	1:2J:70:LEU:HD21	2.00	0.42
1:2M:60:PHE:HE2	1:2N:39:ALA:HB2	1.84	0.42
1:3C:55:ALA:O	1:3C:58:SER:HB3	2.19	0.42
1:3H:14:THR:HB	1:3H:70:LEU:HD21	2.00	0.42
1:3O:13:ASN:O	1:3O:14:THR:OG1	2.34	0.42
1:4B:64:GLY:HA3	1:4C:54:PHE:HE1	1.83	0.42
1:4D:55:ALA:O	1:4D:58:SER:HB3	2.19	0.42
1:5D:14:THR:HB	1:5D:70:LEU:HD21	2.00	0.42
1:5K:16:VAL:HG21	1:5L:29:TRP:CZ2	2.54	0.42
1:1A:55:ALA:O	1:1A:58:SER:HB3	2.19	0.42
1:1C:55:ALA:O	1:1C:58:SER:HB3	2.19	0.42
1:2F:70:LEU:C	1:2G:28:LYS:HD3	2.39	0.42
1:2I:14:THR:HB	1:2I:70:LEU:HD21	2.00	0.42
1:3D:8:LEU:O	1:3D:11:SER:OG	2.22	0.42
1:3L:25:SER:OG	1:3L:29:TRP:NE1	2.31	0.42
1:4C:55:ALA:O	1:4C:58:SER:HB3	2.19	0.42
1:4F:55:ALA:O	1:4F:58:SER:HB3	2.19	0.42
1:4G:25:SER:OG	1:4G:29:TRP:NE1	2.31	0.42
1:5H:60:PHE:HE2	1:5I:39:ALA:HB2	1.84	0.42
1:5O:13:ASN:O	1:5O:14:THR:OG1	2.34	0.42
1:1E:34:GLU:OE1	1:1F:43:MET:HG2	2.19	0.42
1:1K:16:VAL:HG21	1:1L:29:TRP:CZ2	2.54	0.42
1:2B:64:GLY:HA3	1:2C:54:PHE:HE1	1.83	0.42
1:2E:55:ALA:O	1:2E:58:SER:HB3	2.19	0.42
1:2E:34:GLU:OE1	1:2F:43:MET:HG2	2.19	0.42
1:3N:55:ALA:O	1:3N:58:SER:HB3	2.19	0.42
1:4F:34:GLU:OE1	1:4G:43:MET:HG2	2.19	0.42
1:4E:34:GLU:OE1	1:4F:43:MET:HG2	2.19	0.42
1:4F:64:GLY:HA3	1:4G:54:PHE:HE1	1.84	0.42
1:4O:14:THR:HB	1:4O:70:LEU:HD21	2.00	0.42
1:5C:55:ALA:O	1:5C:58:SER:HB3	2.19	0.42
1:5I:55:ALA:O	1:5I:58:SER:HB3	2.19	0.42
1:5M:14:THR:HB	1:5M:70:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1E:67:VAL:HG11	1:5C:9:MET:HE1	2.00	0.42
1:1F:70:LEU:C	1:1G:28:LYS:HD3	2.39	0.42
1:1G:64:GLY:HA3	1:1H:54:PHE:HE1	1.83	0.42
1:1H:55:ALA:O	1:1H:58:SER:HB3	2.19	0.42
1:1M:55:ALA:O	1:1M:58:SER:HB3	2.19	0.42
1:2J:16:VAL:HG21	1:2K:29:TRP:CZ2	2.55	0.42
1:2K:55:ALA:O	1:2K:58:SER:HB3	2.19	0.42
1:2O:55:ALA:O	1:2O:58:SER:HB3	2.19	0.42
1:4A:14:THR:HB	1:4A:70:LEU:HD21	2.00	0.42
1:4M:25:SER:OG	1:4M:29:TRP:NE1	2.31	0.42
1:5D:55:ALA:O	1:5D:58:SER:HB3	2.19	0.42
1:5F:64:GLY:HA3	1:5G:54:PHE:HE1	1.84	0.42
1:5J:16:VAL:HG21	1:5K:29:TRP:CZ2	2.55	0.42
1:5O:55:ALA:O	1:5O:58:SER:HB3	2.19	0.42
1:2K:60:PHE:HE2	1:2L:39:ALA:HB2	1.85	0.42
1:4E:55:ALA:O	1:4E:58:SER:HB3	2.19	0.42
1:4G:64:GLY:HA3	1:4H:54:PHE:HE1	1.84	0.42
1:4J:64:GLY:HA3	1:4K:54:PHE:HE1	1.83	0.42
1:5A:14:THR:HB	1:5A:70:LEU:HD21	2.00	0.42
1:1L:63:VAL:CG1	1:5J:13:ASN:CB	2.95	0.42
1:1B:46:LYS:HA	1:1B:46:LYS:HD3	1.78	0.42
1:2G:14:THR:HB	1:2G:70:LEU:HD21	2.00	0.42
1:2L:55:ALA:O	1:2L:58:SER:HB3	2.19	0.42
1:3K:64:GLY:HA3	1:3L:54:PHE:HE1	1.84	0.42
1:3K:60:PHE:HE2	1:3L:39:ALA:HB2	1.85	0.42
1:4A:55:ALA:O	1:4A:58:SER:HB3	2.19	0.42
1:4B:55:ALA:O	1:4B:58:SER:HB3	2.19	0.42
1:4H:60:PHE:HE2	1:4I:39:ALA:HB2	1.84	0.42
1:4J:16:VAL:HG21	1:4K:29:TRP:CZ2	2.55	0.42
1:4L:14:THR:HB	1:4L:70:LEU:HD21	2.00	0.42
1:4N:14:THR:HB	1:4N:70:LEU:HD21	2.00	0.42
1:5B:14:THR:HB	1:5B:70:LEU:HD21	2.00	0.42
1:5F:55:ALA:O	1:5F:58:SER:HB3	2.19	0.42
1:5F:34:GLU:OE1	1:5G:43:MET:HG2	2.20	0.42
1:5K:25:SER:OG	1:5K:29:TRP:NE1	2.31	0.42
1:5K:64:GLY:HA3	1:5L:54:PHE:HE1	1.84	0.42
1:1B:70:LEU:C	1:1C:28:LYS:HD3	2.40	0.42
1:1F:34:GLU:OE1	1:1G:43:MET:HG2	2.19	0.42
1:1G:60:PHE:HE2	1:1H:39:ALA:HB2	1.85	0.42
1:2H:14:THR:HB	1:2H:70:LEU:HD21	2.00	0.42
1:2N:55:ALA:O	1:2N:58:SER:HB3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3C:64:GLY:HA3	1:3D:54:PHE:HE1	1.84	0.42
1:3F:64:GLY:HA3	1:3G:54:PHE:HE1	1.84	0.42
1:3J:16:VAL:HG21	1:3K:29:TRP:CZ2	2.55	0.42
1:4K:14:THR:HB	1:4K:70:LEU:HD21	2.00	0.42
1:4K:16:VAL:HG21	1:4L:29:TRP:CZ2	2.54	0.42
1:4K:60:PHE:HE2	1:4L:39:ALA:HB2	1.85	0.42
1:4L:55:ALA:O	1:4L:58:SER:HB3	2.19	0.42
1:4M:57:ILE:HD11	1:4N:42:TYR:CD2	2.54	0.42
1:5C:14:THR:HB	1:5C:70:LEU:HD21	2.00	0.42
1:5E:55:ALA:O	1:5E:58:SER:HB3	2.19	0.42
1:5H:55:ALA:O	1:5H:58:SER:HB3	2.19	0.42
1:5N:25:SER:OG	1:5N:29:TRP:NE1	2.31	0.42
1:5N:55:ALA:O	1:5N:58:SER:HB3	2.19	0.42
1:1B:55:ALA:O	1:1B:58:SER:HB3	2.19	0.42
1:1L:55:ALA:O	1:1L:58:SER:HB3	2.19	0.42
1:1M:60:PHE:HE2	1:1N:39:ALA:HB2	1.84	0.42
1:2M:55:ALA:O	1:2M:58:SER:HB3	2.19	0.42
1:2N:34:GLU:OE1	1:2O:46:LYS:NZ	2.45	0.42
1:3G:64:GLY:HA3	1:3H:54:PHE:HE1	1.84	0.42
1:5J:46:LYS:HA	1:5J:46:LYS:HD3	1.78	0.42
1:1E:60:PHE:HE2	1:1F:39:ALA:HB2	1.85	0.42
1:2F:64:GLY:HA3	1:2G:54:PHE:HE1	1.84	0.42
1:2G:60:PHE:HE2	1:2H:39:ALA:HB2	1.85	0.42
1:3D:13:ASN:O	1:3D:14:THR:OG1	2.34	0.42
1:3O:55:ALA:O	1:3O:58:SER:HB3	2.19	0.42
1:4C:64:GLY:HA3	1:4D:54:PHE:HE1	1.84	0.42
1:4E:13:ASN:HD21	1:5G:63:VAL:CG1	1.97	0.42
1:5C:64:GLY:HA3	1:5D:54:PHE:HE1	1.84	0.42
1:5C:8:LEU:O	1:5C:11:SER:OG	2.22	0.42
1:5E:60:PHE:HE2	1:5F:39:ALA:HB2	1.85	0.42
1:5G:55:ALA:O	1:5G:58:SER:HB3	2.19	0.42
1:1I:55:ALA:O	1:1I:58:SER:HB3	2.19	0.41
1:1J:16:VAL:HG21	1:1K:29:TRP:CZ2	2.55	0.41
1:1K:55:ALA:O	1:1K:58:SER:HB3	2.19	0.41
1:3D:46:LYS:HD3	1:3D:46:LYS:HA	1.78	0.41
1:3N:34:GLU:OE1	1:3O:46:LYS:NZ	2.45	0.41
1:4M:14:THR:HB	1:4M:70:LEU:HD21	2.00	0.41
1:4M:8:LEU:O	1:4M:11:SER:OG	2.22	0.41
1:5E:34:GLU:OE1	1:5F:43:MET:HG2	2.19	0.41
1:2F:34:GLU:OE1	1:2G:43:MET:HG2	2.19	0.41
1:2M:57:ILE:HD11	1:2N:42:TYR:CD2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3E:34:GLU:OE1	1:3F:43:MET:HG2	2.19	0.41
1:4K:46:LYS:HD3	1:4K:46:LYS:HA	1.78	0.41
1:4N:16:VAL:HG21	1:4O:29:TRP:CZ2	2.55	0.41
1:5N:16:VAL:HG21	1:5O:29:TRP:CZ2	2.55	0.41
1:1F:64:GLY:HA3	1:1G:54:PHE:HE1	1.84	0.41
1:1J:55:ALA:O	1:1J:58:SER:HB3	2.19	0.41
1:2B:13:ASN:O	1:2B:14:THR:OG1	2.34	0.41
1:2I:8:LEU:O	1:2I:11:SER:OG	2.22	0.41
1:3G:70:LEU:C	1:3H:28:LYS:HD3	2.41	0.41
1:5A:53:GLY:HA3	1:5A:57:ILE:HG13	2.03	0.41
1:5D:60:PHE:CE1	1:5E:51:LEU:HG	2.56	0.41
1:5M:57:ILE:HD11	1:5N:42:TYR:CD2	2.54	0.41
1:1K:60:PHE:HE2	1:1L:39:ALA:HB2	1.85	0.41
1:2E:53:GLY:HA3	1:2E:57:ILE:HG13	2.03	0.41
1:2F:53:GLY:HA3	1:2F:57:ILE:HG13	2.03	0.41
1:3G:25:SER:OG	1:3G:29:TRP:NE1	2.31	0.41
1:4C:53:GLY:HA3	1:4C:57:ILE:HG13	2.03	0.41
1:4D:60:PHE:CE1	1:4E:51:LEU:HG	2.56	0.41
1:4E:60:PHE:HE2	1:4F:39:ALA:HB2	1.85	0.41
1:4F:8:LEU:O	1:4F:11:SER:OG	2.22	0.41
1:4K:53:GLY:HA3	1:4K:57:ILE:HG13	2.03	0.41
1:5B:70:LEU:C	1:5C:28:LYS:HD3	2.40	0.41
1:4C:13:ASN:HD21	1:5E:63:VAL:CG1	2.01	0.41
1:5O:53:GLY:HA3	1:5O:57:ILE:HG13	2.03	0.41
1:1A:13:ASN:HD21	1:2C:63:VAL:CA	2.32	0.41
1:1F:46:LYS:HD3	1:1F:46:LYS:HA	1.78	0.41
1:1H:53:GLY:HA3	1:1H:57:ILE:HG13	2.03	0.41
1:2I:46:LYS:HD3	1:2I:46:LYS:HA	1.78	0.41
1:2M:53:GLY:HA3	1:2M:57:ILE:HG13	2.03	0.41
1:3E:13:ASN:O	1:3E:14:THR:OG1	2.35	0.41
1:3F:34:GLU:OE1	1:3G:43:MET:HG2	2.20	0.41
1:3K:34:GLU:OE1	1:3L:43:MET:HG2	2.20	0.41
1:4G:46:LYS:HA	1:4G:46:LYS:HD3	1.78	0.41
1:4O:8:LEU:O	1:4O:11:SER:OG	2.22	0.41
1:5G:70:LEU:C	1:5H:28:LYS:HD3	2.41	0.41
1:4L:13:ASN:HB3	1:5N:63:VAL:CG1	2.51	0.41
1:1F:53:GLY:HA3	1:1F:57:ILE:HG13	2.03	0.41
1:1G:53:GLY:HA3	1:1G:57:ILE:HG13	2.03	0.41
1:1K:34:GLU:OE1	1:1L:43:MET:HG2	2.20	0.41
1:2A:53:GLY:HA3	1:2A:57:ILE:HG13	2.03	0.41
1:2G:53:GLY:HA3	1:2G:57:ILE:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2K:9:MET:SD	1:3N:59:VAL:HG13	2.61	0.41
1:2N:53:GLY:HA3	1:2N:57:ILE:HG13	2.03	0.41
1:4B:70:LEU:C	1:4C:28:LYS:HD3	2.40	0.41
1:4C:46:LYS:HA	1:4C:46:LYS:HD3	1.78	0.41
1:5B:53:GLY:HA3	1:5B:57:ILE:HG13	2.03	0.41
1:5C:53:GLY:HA3	1:5C:57:ILE:HG13	2.03	0.41
1:5D:13:ASN:O	1:5D:14:THR:OG1	2.34	0.41
1:1L:63:VAL:HG11	1:5J:13:ASN:ND2	2.23	0.41
1:5N:53:GLY:HA3	1:5N:57:ILE:HG13	2.03	0.41
1:1K:13:ASN:O	1:1K:14:THR:OG1	2.34	0.41
1:1N:16:VAL:HG21	1:1O:29:TRP:CZ2	2.55	0.41
1:2L:53:GLY:HA3	1:2L:57:ILE:HG13	2.03	0.41
1:2M:64:GLY:HA3	1:2N:54:PHE:HE1	1.86	0.41
1:2O:53:GLY:HA3	1:2O:57:ILE:HG13	2.03	0.41
1:3D:60:PHE:CE1	1:3E:51:LEU:HG	2.56	0.41
1:3H:13:ASN:O	1:3H:14:THR:OG1	2.35	0.41
1:3K:53:GLY:HA3	1:3K:57:ILE:HG13	2.03	0.41
1:3L:53:GLY:HA3	1:3L:57:ILE:HG13	2.03	0.41
1:3N:13:ASN:O	1:3N:14:THR:OG1	2.35	0.41
1:3N:8:LEU:O	1:3N:11:SER:OG	2.22	0.41
1:4C:8:LEU:O	1:4C:11:SER:OG	2.22	0.41
1:4D:53:GLY:HA3	1:4D:57:ILE:HG13	2.03	0.41
1:4E:53:GLY:HA3	1:4E:57:ILE:HG13	2.03	0.41
1:4H:13:ASN:O	1:4H:14:THR:OG1	2.34	0.41
1:4K:64:GLY:HA3	1:4L:54:PHE:HE1	1.84	0.41
1:4K:34:GLU:OE1	1:4L:43:MET:HG2	2.20	0.41
1:5G:53:GLY:HA3	1:5G:57:ILE:HG13	2.03	0.41
1:5H:53:GLY:HA3	1:5H:57:ILE:HG13	2.03	0.41
1:5J:13:ASN:O	1:5J:14:THR:OG1	2.35	0.41
1:5K:60:PHE:HE2	1:5L:39:ALA:HB2	1.85	0.41
1:1C:16:VAL:HG21	1:1D:29:TRP:CZ2	2.56	0.41
1:1I:34:GLU:OE1	1:1J:43:MET:HG2	2.20	0.41
1:1I:64:GLY:HA3	1:1J:54:PHE:HE1	1.86	0.41
1:1L:63:VAL:CG1	1:5J:13:ASN:HD22	2.24	0.41
1:2B:53:GLY:HA3	1:2B:57:ILE:HG13	2.03	0.41
1:2D:53:GLY:HA3	1:2D:57:ILE:HG13	2.03	0.41
1:2E:60:PHE:HE2	1:2F:39:ALA:HB2	1.85	0.41
1:2I:37:VAL:CG1	2:3J:101:6V6:C2	2.99	0.41
1:2O:13:ASN:O	1:2O:14:THR:OG1	2.34	0.41
1:3B:70:LEU:C	1:3C:28:LYS:HD3	2.40	0.41
1:3J:53:GLY:HA3	1:3J:57:ILE:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3M:53:GLY:HA3	1:3M:57:ILE:HG13	2.03	0.41
1:3O:46:LYS:HD3	1:3O:46:LYS:HA	1.78	0.41
1:4E:8:LEU:O	1:4E:11:SER:OG	2.22	0.41
1:4I:70:LEU:C	1:4J:28:LYS:HD3	2.41	0.41
1:3K:9:MET:SD	1:4N:59:VAL:HG13	2.61	0.41
1:5G:60:PHE:HE2	1:5H:39:ALA:HB2	1.85	0.41
1:5M:53:GLY:HA3	1:5M:57:ILE:HG13	2.03	0.41
1:5N:46:LYS:HA	1:5N:46:LYS:HD3	1.78	0.41
1:1I:53:GLY:HA3	1:1I:57:ILE:HG13	2.03	0.41
1:2C:53:GLY:HA3	1:2C:57:ILE:HG13	2.03	0.41
1:2H:53:GLY:HA3	1:2H:57:ILE:HG13	2.03	0.41
1:2J:57:ILE:HD11	1:2K:42:TYR:CD2	2.56	0.41
1:3B:60:PHE:CE1	1:3C:51:LEU:HG	2.56	0.41
1:3C:46:LYS:HA	1:3C:46:LYS:HD3	1.78	0.41
1:3C:53:GLY:HA3	1:3C:57:ILE:HG13	2.03	0.41
1:2F:9:MET:CE	1:3H:67:VAL:HG11	2.17	0.41
1:3M:64:GLY:HA3	1:3N:54:PHE:HE1	1.86	0.41
1:4B:53:GLY:HA3	1:4B:57:ILE:HG13	2.03	0.41
1:4J:53:GLY:HA3	1:4J:57:ILE:HG13	2.03	0.41
1:4L:53:GLY:HA3	1:4L:57:ILE:HG13	2.03	0.41
1:1F:67:VAL:CG1	1:5D:9:MET:HE1	2.50	0.41
1:5F:53:GLY:HA3	1:5F:57:ILE:HG13	2.02	0.41
1:5I:34:GLU:OE1	1:5J:43:MET:HG2	2.21	0.41
1:5I:53:GLY:HA3	1:5I:57:ILE:HG13	2.03	0.41
1:1E:53:GLY:HA3	1:1E:57:ILE:HG13	2.03	0.41
1:1G:70:LEU:C	1:1H:28:LYS:HD3	2.41	0.41
1:1O:53:GLY:HA3	1:1O:57:ILE:HG13	2.03	0.41
1:2C:64:GLY:HA3	1:2D:54:PHE:HE1	1.84	0.41
1:2G:70:LEU:C	1:2H:28:LYS:HD3	2.41	0.41
1:2K:53:GLY:HA3	1:2K:57:ILE:HG13	2.03	0.41
1:2K:34:GLU:OE1	1:2L:43:MET:HG2	2.20	0.41
1:2L:64:GLY:HA3	1:2M:54:PHE:HE1	1.86	0.41
1:3D:13:ASN:HD21	1:4F:63:VAL:CG1	2.05	0.41
1:3D:53:GLY:HA3	1:3D:57:ILE:HG13	2.03	0.41
1:4E:13:ASN:O	1:4E:14:THR:OG1	2.35	0.41
1:4F:53:GLY:HA3	1:4F:57:ILE:HG13	2.03	0.41
1:4G:70:LEU:C	1:4H:28:LYS:HD3	2.41	0.41
1:4O:46:LYS:HD3	1:4O:46:LYS:HA	1.78	0.41
1:5B:46:LYS:HD3	1:5B:46:LYS:HA	1.78	0.41
1:1D:60:PHE:CE1	1:1E:51:LEU:HG	2.56	0.41
1:1I:70:LEU:C	1:1J:28:LYS:HD3	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1L:64:GLY:HA3	1:1M:54:PHE:HE1	1.86	0.41
1:1O:37:VAL:O	1:1O:41:MET:HG2	2.22	0.41
1:2B:70:LEU:C	1:2C:28:LYS:HD3	2.40	0.41
1:2C:7:ASP:OD1	1:2C:7:ASP:N	2.54	0.41
1:1G:9:MET:HB3	1:2I:67:VAL:HG22	2.04	0.41
1:2M:34:GLU:OE1	1:2N:43:MET:HG2	2.21	0.41
1:3C:13:ASN:O	1:3C:14:THR:OG1	2.35	0.41
1:3E:53:GLY:HA3	1:3E:57:ILE:HG13	2.03	0.41
1:3G:60:PHE:HE2	1:3H:39:ALA:HB2	1.85	0.41
1:3N:53:GLY:HA3	1:3N:57:ILE:HG13	2.03	0.41
1:4A:53:GLY:HA3	1:4A:57:ILE:HG13	2.03	0.41
1:4H:53:GLY:HA3	1:4H:57:ILE:HG13	2.03	0.41
1:4I:53:GLY:HA3	1:4I:57:ILE:HG13	2.03	0.41
1:4M:37:VAL:O	1:4M:41:MET:HG2	2.21	0.41
1:5H:64:GLY:HA3	1:5I:54:PHE:HE1	1.86	0.41
1:5J:53:GLY:HA3	1:5J:57:ILE:HG13	2.03	0.41
1:5I:64:GLY:HA3	1:5J:54:PHE:HE1	1.86	0.41
1:5K:53:GLY:HA3	1:5K:57:ILE:HG13	2.03	0.41
1:5L:37:VAL:O	1:5L:41:MET:HG2	2.22	0.41
1:5L:53:GLY:HA3	1:5L:57:ILE:HG13	2.03	0.41
1:1A:13:ASN:O	1:1A:14:THR:OG1	2.35	0.40
1:1D:37:VAL:O	1:1D:41:MET:HG2	2.21	0.40
1:1G:57:ILE:HD11	1:1H:42:TYR:CD2	2.57	0.40
1:1H:64:GLY:HA3	1:1I:54:PHE:HE1	1.86	0.40
1:2C:13:ASN:O	1:2C:14:THR:OG1	2.35	0.40
1:2G:37:VAL:O	1:2G:41:MET:HG2	2.22	0.40
1:2H:34:GLU:OE1	1:2I:43:MET:HG2	2.21	0.40
1:2N:13:ASN:O	1:2N:14:THR:OG1	2.35	0.40
1:3B:53:GLY:HA3	1:3B:57:ILE:HG13	2.03	0.40
1:3I:53:GLY:HA3	1:3I:57:ILE:HG13	2.03	0.40
1:3I:70:LEU:C	1:3J:28:LYS:HD3	2.41	0.40
1:3J:37:VAL:O	1:3J:41:MET:HG2	2.22	0.40
1:3L:46:LYS:HA	1:3L:46:LYS:HD3	1.78	0.40
1:3L:64:GLY:HA3	1:3M:54:PHE:HE1	1.86	0.40
1:3N:16:VAL:HG21	1:3O:29:TRP:CZ2	2.55	0.40
1:4I:37:VAL:O	1:4I:41:MET:HG2	2.22	0.40
1:5A:37:VAL:O	1:5A:41:MET:HG2	2.22	0.40
1:5O:37:VAL:O	1:5O:41:MET:HG2	2.22	0.40
1:1A:37:VAL:O	1:1A:41:MET:HG2	2.22	0.40
1:1D:63:VAL:CG1	1:5B:13:ASN:HD21	2.05	0.40
1:1E:67:VAL:CG1	1:5C:9:MET:HE1	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1J:53:GLY:HA3	1:1J:57:ILE:HG13	2.03	0.40
1:1N:53:GLY:HA3	1:1N:57:ILE:HG13	2.03	0.40
1:1M:64:GLY:HA3	1:1N:54:PHE:HE1	1.86	0.40
1:2C:37:VAL:O	1:2C:41:MET:HG2	2.22	0.40
1:2D:60:PHE:CE1	1:2E:51:LEU:HG	2.56	0.40
1:2N:16:VAL:HG21	1:2O:29:TRP:CZ2	2.55	0.40
1:3B:13:ASN:O	1:3B:14:THR:OG1	2.34	0.40
1:3C:16:VAL:HG21	1:3D:29:TRP:CZ2	2.56	0.40
1:3H:37:VAL:O	1:3H:41:MET:HG2	2.22	0.40
1:3H:34:GLU:OE1	1:3I:43:MET:HG2	2.21	0.40
1:4C:16:VAL:HG21	1:4D:29:TRP:CZ2	2.56	0.40
1:4G:53:GLY:HA3	1:4G:57:ILE:HG13	2.03	0.40
1:5C:16:VAL:HG21	1:5D:29:TRP:CZ2	2.56	0.40
1:5H:34:GLU:OE1	1:5I:43:MET:HG2	2.21	0.40
1:4I:37:VAL:CG1	2:5J:101:6V6:C2	2.98	0.40
1:5J:57:ILE:HD11	1:5K:42:TYR:CD2	2.56	0.40
1:5J:8:LEU:O	1:5J:11:SER:OG	2.22	0.40
1:5K:34:GLU:OE1	1:5L:43:MET:HG2	2.20	0.40
1:1D:53:GLY:HA3	1:1D:57:ILE:HG13	2.03	0.40
1:1E:37:VAL:O	1:1E:41:MET:HG2	2.22	0.40
1:1J:13:ASN:O	1:1J:14:THR:OG1	2.35	0.40
1:1K:53:GLY:HA3	1:1K:57:ILE:HG13	2.03	0.40
1:2A:7:ASP:OD1	1:2A:7:ASP:N	2.54	0.40
1:2B:7:ASP:OD1	1:2B:7:ASP:N	2.54	0.40
1:2E:37:VAL:O	1:2E:41:MET:HG2	2.22	0.40
1:2H:46:LYS:HA	1:2H:46:LYS:HD3	1.78	0.40
1:2L:9:MET:HE3	1:3O:58:SER:HG	1.67	0.40
1:3F:37:VAL:O	1:3F:41:MET:HG2	2.22	0.40
1:3F:53:GLY:HA3	1:3F:57:ILE:HG13	2.03	0.40
1:3H:53:GLY:HA3	1:3H:57:ILE:HG13	2.03	0.40
1:3K:37:VAL:O	1:3K:41:MET:HG2	2.22	0.40
1:3O:53:GLY:HA3	1:3O:57:ILE:HG13	2.03	0.40
1:4A:37:VAL:O	1:4A:41:MET:HG2	2.22	0.40
1:4E:64:GLY:HA3	1:4F:54:PHE:HE1	1.86	0.40
1:4K:37:VAL:O	1:4K:41:MET:HG2	2.22	0.40
1:4M:53:GLY:HA3	1:4M:57:ILE:HG13	2.03	0.40
1:4O:53:GLY:HA3	1:4O:57:ILE:HG13	2.03	0.40
1:1N:58:SER:CB	1:5K:9:MET:HE1	2.51	0.40
1:5M:37:VAL:O	1:5M:41:MET:HG2	2.22	0.40
1:1C:37:VAL:O	1:1C:41:MET:HG2	2.21	0.40
1:1M:53:GLY:HA3	1:1M:57:ILE:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1A:13:ASN:HD21	1:2C:63:VAL:CG1	2.00	0.40
1:2D:37:VAL:O	1:2D:41:MET:HG2	2.22	0.40
1:2E:8:LEU:O	1:2E:11:SER:OG	2.22	0.40
1:2I:34:GLU:OE1	1:2J:43:MET:HG2	2.21	0.40
1:3E:60:PHE:HE2	1:3F:39:ALA:HB2	1.85	0.40
1:3G:37:VAL:O	1:3G:41:MET:HG2	2.22	0.40
1:3I:34:GLU:OE1	1:3J:43:MET:HG2	2.20	0.40
1:4B:37:VAL:O	1:4B:41:MET:HG2	2.22	0.40
1:4B:60:PHE:CE1	1:4C:51:LEU:HG	2.56	0.40
1:4G:57:ILE:HD11	1:4H:42:TYR:CD2	2.57	0.40
1:4I:64:GLY:HA3	1:4J:54:PHE:HE1	1.86	0.40
1:3I:37:VAL:CG1	2:4J:101:6V6:C2	2.98	0.40
1:4J:37:VAL:O	1:4J:41:MET:HG2	2.22	0.40
1:4K:9:MET:HE3	1:5N:58:SER:HG	1.59	0.40
1:4N:37:VAL:O	1:4N:41:MET:HG2	2.22	0.40
1:5C:37:VAL:O	1:5C:41:MET:HG2	2.22	0.40
1:5D:53:GLY:HA3	1:5D:57:ILE:HG13	2.03	0.40
1:4K:9:MET:SD	1:5N:59:VAL:HG13	2.61	0.40
1:4M:13:ASN:HD22	1:5O:63:VAL:CG1	2.27	0.40
1:1F:37:VAL:O	1:1F:41:MET:HG2	2.22	0.40
1:1L:13:ASN:O	1:1L:14:THR:OG1	2.34	0.40
1:1L:37:VAL:O	1:1L:41:MET:HG2	2.22	0.40
1:1M:37:VAL:O	1:1M:41:MET:HG2	2.21	0.40
1:2C:16:VAL:HG21	1:2D:29:TRP:CZ2	2.56	0.40
1:2H:37:VAL:O	1:2H:41:MET:HG2	2.22	0.40
1:2K:37:VAL:O	1:2K:41:MET:HG2	2.22	0.40
1:3E:7:ASP:N	1:3E:7:ASP:OD1	2.54	0.40
1:3F:7:ASP:N	1:3F:7:ASP:OD1	2.54	0.40
1:3G:53:GLY:HA3	1:3G:57:ILE:HG13	2.03	0.40
1:3K:46:LYS:HD3	1:3K:46:LYS:HA	1.78	0.40
1:2L:13:ASN:HB3	1:3N:63:VAL:CG1	2.51	0.40
1:4I:34:GLU:OE1	1:4J:43:MET:HG2	2.21	0.40
1:4I:9:MET:HE2	1:5K:67:VAL:HG11	1.91	0.40
1:4L:37:VAL:O	1:4L:41:MET:HG2	2.22	0.40
1:5B:37:VAL:O	1:5B:41:MET:HG2	2.22	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	1A	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1B	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1C	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1D	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1E	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1F	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1G	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1H	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1I	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1J	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1K	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1L	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1M	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1N	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	1O	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2A	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2B	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2C	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2D	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2E	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2F	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2G	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2H	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2I	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2J	63/65 (97%)	51 (81%)	12 (19%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	2K	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2L	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2M	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2N	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	2O	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3A	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3B	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3C	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3D	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3E	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3F	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3G	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3H	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3I	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3J	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3K	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3L	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3M	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3N	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	3O	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4A	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4B	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4C	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4D	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4E	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4F	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4G	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4H	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4I	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4J	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4K	63/65 (97%)	51 (81%)	12 (19%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	4L	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4M	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4N	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	4O	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5A	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5B	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5C	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5D	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5E	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5F	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5G	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5H	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5I	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5J	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5K	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5L	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5M	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5N	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
1	5O	63/65 (97%)	51 (81%)	12 (19%)	0	100	100
All	All	4725/4875 (97%)	3825 (81%)	900 (19%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1A	51/51 (100%)	51 (100%)	0	100	100
1	1B	51/51 (100%)	51 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1C	51/51 (100%)	51 (100%)	0	100	100
1	1D	51/51 (100%)	51 (100%)	0	100	100
1	1E	51/51 (100%)	51 (100%)	0	100	100
1	1F	51/51 (100%)	51 (100%)	0	100	100
1	1G	51/51 (100%)	51 (100%)	0	100	100
1	1H	51/51 (100%)	51 (100%)	0	100	100
1	1I	51/51 (100%)	51 (100%)	0	100	100
1	1J	51/51 (100%)	51 (100%)	0	100	100
1	1K	51/51 (100%)	51 (100%)	0	100	100
1	1L	51/51 (100%)	51 (100%)	0	100	100
1	1M	51/51 (100%)	51 (100%)	0	100	100
1	1N	51/51 (100%)	51 (100%)	0	100	100
1	1O	51/51 (100%)	51 (100%)	0	100	100
1	2A	51/51 (100%)	51 (100%)	0	100	100
1	2B	51/51 (100%)	51 (100%)	0	100	100
1	2C	51/51 (100%)	51 (100%)	0	100	100
1	2D	51/51 (100%)	51 (100%)	0	100	100
1	2E	51/51 (100%)	51 (100%)	0	100	100
1	2F	51/51 (100%)	51 (100%)	0	100	100
1	2G	51/51 (100%)	51 (100%)	0	100	100
1	2H	51/51 (100%)	51 (100%)	0	100	100
1	2I	51/51 (100%)	51 (100%)	0	100	100
1	2J	51/51 (100%)	51 (100%)	0	100	100
1	2K	51/51 (100%)	51 (100%)	0	100	100
1	2L	51/51 (100%)	51 (100%)	0	100	100
1	2M	51/51 (100%)	51 (100%)	0	100	100
1	2N	51/51 (100%)	51 (100%)	0	100	100
1	2O	51/51 (100%)	51 (100%)	0	100	100
1	3A	51/51 (100%)	51 (100%)	0	100	100
1	3B	51/51 (100%)	51 (100%)	0	100	100
1	3C	51/51 (100%)	51 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	3D	51/51 (100%)	51 (100%)	0	100	100
1	3E	51/51 (100%)	51 (100%)	0	100	100
1	3F	51/51 (100%)	51 (100%)	0	100	100
1	3G	51/51 (100%)	51 (100%)	0	100	100
1	3H	51/51 (100%)	51 (100%)	0	100	100
1	3I	51/51 (100%)	51 (100%)	0	100	100
1	3J	51/51 (100%)	51 (100%)	0	100	100
1	3K	51/51 (100%)	51 (100%)	0	100	100
1	3L	51/51 (100%)	51 (100%)	0	100	100
1	3M	51/51 (100%)	51 (100%)	0	100	100
1	3N	51/51 (100%)	51 (100%)	0	100	100
1	3O	51/51 (100%)	51 (100%)	0	100	100
1	4A	51/51 (100%)	51 (100%)	0	100	100
1	4B	51/51 (100%)	51 (100%)	0	100	100
1	4C	51/51 (100%)	51 (100%)	0	100	100
1	4D	51/51 (100%)	51 (100%)	0	100	100
1	4E	51/51 (100%)	51 (100%)	0	100	100
1	4F	51/51 (100%)	51 (100%)	0	100	100
1	4G	51/51 (100%)	51 (100%)	0	100	100
1	4H	51/51 (100%)	51 (100%)	0	100	100
1	4I	51/51 (100%)	51 (100%)	0	100	100
1	4J	51/51 (100%)	51 (100%)	0	100	100
1	4K	51/51 (100%)	51 (100%)	0	100	100
1	4L	51/51 (100%)	51 (100%)	0	100	100
1	4M	51/51 (100%)	51 (100%)	0	100	100
1	4N	51/51 (100%)	51 (100%)	0	100	100
1	4O	51/51 (100%)	51 (100%)	0	100	100
1	5A	51/51 (100%)	51 (100%)	0	100	100
1	5B	51/51 (100%)	51 (100%)	0	100	100
1	5C	51/51 (100%)	51 (100%)	0	100	100
1	5D	51/51 (100%)	51 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	5E	51/51 (100%)	51 (100%)	0	100	100
1	5F	51/51 (100%)	51 (100%)	0	100	100
1	5G	51/51 (100%)	51 (100%)	0	100	100
1	5H	51/51 (100%)	51 (100%)	0	100	100
1	5I	51/51 (100%)	51 (100%)	0	100	100
1	5J	51/51 (100%)	51 (100%)	0	100	100
1	5K	51/51 (100%)	51 (100%)	0	100	100
1	5L	51/51 (100%)	51 (100%)	0	100	100
1	5M	51/51 (100%)	51 (100%)	0	100	100
1	5N	51/51 (100%)	51 (100%)	0	100	100
1	5O	51/51 (100%)	51 (100%)	0	100	100
All	All	3825/3825 (100%)	3825 (100%)	0	100	100

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

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (36) such sidechains are listed below:

Mol	Chain	Res	Type
1	1A	13	ASN
1	1B	13	ASN
1	1D	13	ASN
1	1E	13	ASN
1	1F	13	ASN
1	1G	13	ASN
1	1H	13	ASN
1	1L	13	ASN
1	2A	13	ASN
1	2B	13	ASN
1	2C	13	ASN
1	2D	13	ASN
1	2E	13	ASN
1	2L	13	ASN
1	2M	13	ASN
1	3A	13	ASN
1	3B	13	ASN
1	3C	13	ASN
1	3D	13	ASN
1	3E	13	ASN

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Mol	Chain	Res	Type
1	3L	13	ASN
1	3M	13	ASN
1	4A	13	ASN
1	4B	13	ASN
1	4C	13	ASN
1	4D	13	ASN
1	4E	13	ASN
1	4L	13	ASN
1	4M	13	ASN
1	5A	13	ASN
1	5B	13	ASN
1	5D	13	ASN
1	5I	13	ASN
1	5J	13	ASN
1	5K	13	ASN
1	5L	13	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

75 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	6V6	1A	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	1B	101	-	11,11,48	0.54	0	11,14,54	0.51	0
2	6V6	1C	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	1D	101	-	11,11,48	0.55	0	11,14,54	0.51	0
2	6V6	1E	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	1F	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	1G	101	-	11,11,48	0.54	0	11,14,54	0.52	0
2	6V6	1H	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	1I	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	1J	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	1K	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	1L	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	1M	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	1N	101	-	11,11,48	0.54	0	11,14,54	0.52	0
2	6V6	1O	101	-	11,11,48	0.56	0	11,14,54	0.53	0
2	6V6	2A	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	2B	101	-	11,11,48	0.54	0	11,14,54	0.51	0
2	6V6	2C	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	2D	101	-	11,11,48	0.56	0	11,14,54	0.51	0
2	6V6	2E	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	2F	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	2G	101	-	11,11,48	0.54	0	11,14,54	0.52	0
2	6V6	2H	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	2I	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	2J	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	2K	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	2L	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	2M	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	2N	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	2O	101	-	11,11,48	0.56	0	11,14,54	0.53	0
2	6V6	3A	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	3B	101	-	11,11,48	0.54	0	11,14,54	0.52	0
2	6V6	3C	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	3D	101	-	11,11,48	0.56	0	11,14,54	0.51	0
2	6V6	3E	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	3F	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	3G	101	-	11,11,48	0.54	0	11,14,54	0.52	0
2	6V6	3H	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	3I	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	3J	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	3K	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	3L	101	-	11,11,48	0.54	0	11,14,54	0.52	0
2	6V6	3M	101	-	11,11,48	0.54	0	11,14,54	0.52	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	6V6	3N	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	3O	101	-	11,11,48	0.56	0	11,14,54	0.53	0
2	6V6	4A	101	-	11,11,48	0.56	0	11,14,54	0.52	0
2	6V6	4B	101	-	11,11,48	0.54	0	11,14,54	0.51	0
2	6V6	4C	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	4D	101	-	11,11,48	0.55	0	11,14,54	0.51	0
2	6V6	4E	101	-	11,11,48	0.54	0	11,14,54	0.52	0
2	6V6	4F	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	4G	101	-	11,11,48	0.54	0	11,14,54	0.52	0
2	6V6	4H	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	4I	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	4J	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	4K	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	4L	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	4M	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	4N	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	4O	101	-	11,11,48	0.56	0	11,14,54	0.53	0
2	6V6	5A	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	5B	101	-	11,11,48	0.54	0	11,14,54	0.51	0
2	6V6	5C	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	5D	101	-	11,11,48	0.55	0	11,14,54	0.51	0
2	6V6	5E	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	5F	101	-	11,11,48	0.55	0	11,14,54	0.53	0
2	6V6	5G	101	-	11,11,48	0.54	0	11,14,54	0.52	0
2	6V6	5H	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	5I	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	5J	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	5K	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	5L	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	5M	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	5N	101	-	11,11,48	0.55	0	11,14,54	0.52	0
2	6V6	5O	101	-	11,11,48	0.56	0	11,14,54	0.53	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	6V6	1A	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1B	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1C	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1D	101	-	-	0/12/12/53	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	6V6	1E	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1F	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1G	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1H	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1I	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1J	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1K	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1L	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1M	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1N	101	-	-	0/12/12/53	0/0/0/0
2	6V6	1O	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2A	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2B	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2C	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2D	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2E	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2F	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2G	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2H	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2I	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2J	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2K	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2L	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2M	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2N	101	-	-	0/12/12/53	0/0/0/0
2	6V6	2O	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3A	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3B	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3C	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3D	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3E	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3F	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3G	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3H	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3I	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3J	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3K	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3L	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3M	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3N	101	-	-	0/12/12/53	0/0/0/0
2	6V6	3O	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4A	101	-	-	0/12/12/53	0/0/0/0

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	6V6	4B	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4C	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4D	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4E	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4F	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4G	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4H	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4I	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4J	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4K	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4L	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4M	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4N	101	-	-	0/12/12/53	0/0/0/0
2	6V6	4O	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5A	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5B	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5C	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5D	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5E	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5F	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5G	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5H	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5I	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5J	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5K	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5L	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5M	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5N	101	-	-	0/12/12/53	0/0/0/0
2	6V6	5O	101	-	-	0/12/12/53	0/0/0/0

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

37 monomers are involved in 64 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	1D	101	6V6	1	0
2	1E	101	6V6	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	1F	101	6V6	1	0
2	1G	101	6V6	1	0
2	1H	101	6V6	1	0
2	1I	101	6V6	2	0
2	2F	101	6V6	1	0
2	2G	101	6V6	1	0
2	2H	101	6V6	1	0
2	2I	101	6V6	2	0
2	2J	101	6V6	2	0
2	2K	101	6V6	2	0
2	2L	101	6V6	2	0
2	2M	101	6V6	2	0
2	2N	101	6V6	1	0
2	2O	101	6V6	1	0
2	3F	101	6V6	1	0
2	3G	101	6V6	1	0
2	3H	101	6V6	2	0
2	3I	101	6V6	2	0
2	3J	101	6V6	4	0
2	3K	101	6V6	2	0
2	3L	101	6V6	2	0
2	4F	101	6V6	1	0
2	4G	101	6V6	1	0
2	4H	101	6V6	2	0
2	4I	101	6V6	2	0
2	4J	101	6V6	4	0
2	4K	101	6V6	2	0
2	4L	101	6V6	2	0
2	5F	101	6V6	1	0
2	5G	101	6V6	1	0
2	5H	101	6V6	2	0
2	5I	101	6V6	2	0
2	5J	101	6V6	4	0
2	5K	101	6V6	2	0
2	5L	101	6V6	2	0

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.