



Full wwPDB NMR Structure Validation Report ⓘ

Apr 15, 2026 – 12:40 AM UTC

PDB ID : 12GB / pdb_000012gb
BMRB ID : 31300
Title : High Resolution Structure of Monomorphic AB1-40 Fibrils
Authors : Bahri, S.; Palani, R.S.; Silvers, R.; Michael, B.; Lattanzi, V.; Andre, I.; Linse, S.; Griffin, R.G.
Deposited on : 2026-04-03

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

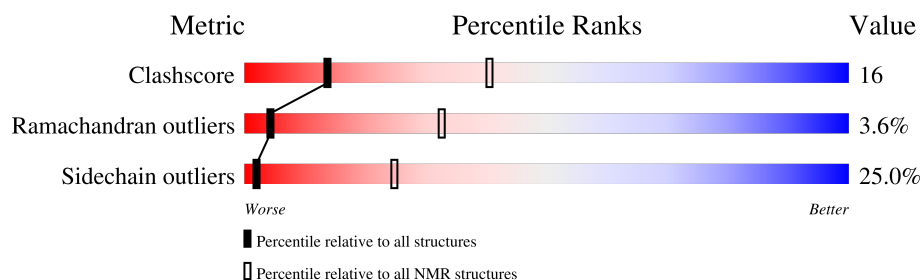
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLID-STATE NMR

The overall completeness of chemical shifts assignment is 2%.

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.



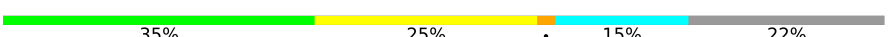
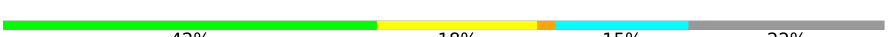
Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	229148	14424
Ramachandran outliers	224038	12848
Sidechain outliers	223484	12823

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and 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	A	40	25% 28% 25% 22%
1	B	40	35% 20% 22% 22%
1	C	40	35% 18% • 22% 22%
1	D	40	35% 20% 22% 22%
1	E	40	32% 22% 22% 22%
1	F	40	32% 20% 5% 20% 22%
1	G	40	35% 22% 20% 22%
1	H	40	32% 22% 22% 22%
1	I	40	30% 18% • 28% 22%

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Mol	Chain	Length	Quality of chain
1	J	40	
1	K	40	
1	L	40	
1	M	40	
1	N	40	
1	O	40	
1	P	40	
1	Q	40	
1	R	40	
1	S	40	
1	T	40	

2 Ensemble composition and analysis

This entry contains 10 models. Model 1 is the overall representative, medoid model (most similar to other models).

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:17-A:37, B:16-B:37, C:16-C:37, D:16-D:37, E:16-E:37, F:15-F:37, G:16-G:38, H:16-H:37, I:18-I:37, J:20-J:35, K:17-K:39, L:17-L:39, M:17-M:39, N:15-N:39, O:17-O:39, P:15-P:39, Q:15-Q:39, R:17-R:39, S:17-S:39, T:16-T:40 (451)	0.68	1

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 2 clusters and 2 single-model clusters were found.

Cluster number	Models
1	1, 4, 5, 7, 9, 10
2	2, 8
Single-model clusters	3; 6

3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 9340 atoms, of which 4680 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Type IIIb beta-amyloid 40 Filament.

Mol	Chain	Residues	Atoms						Trace
1	A	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	B	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	C	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	D	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	E	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	F	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	G	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	H	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	I	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	J	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	K	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	L	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	M	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	N	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	O	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	P	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	Q	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	R	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	
1	S	31	Total	C	H	N	O	S	0
			467	152	234	39	41	1	

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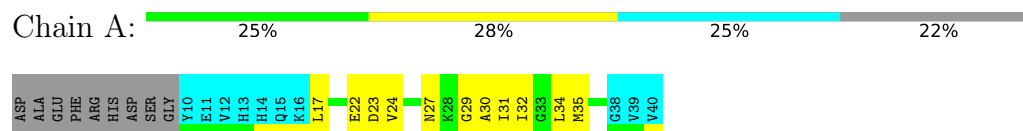
Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	T	31	467	152	234	39	41	1	0

4 Residue-property plots [i](#)

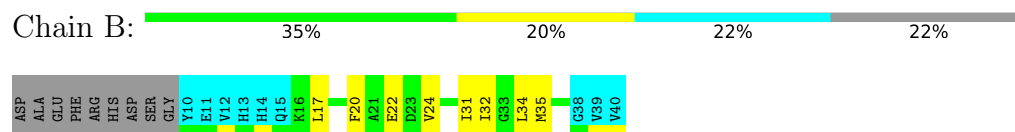
4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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 outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

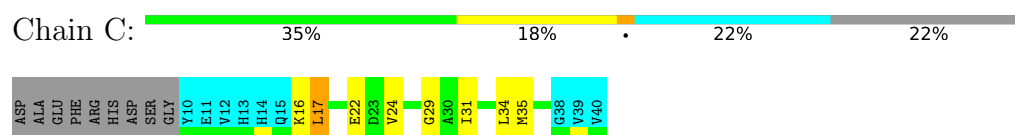
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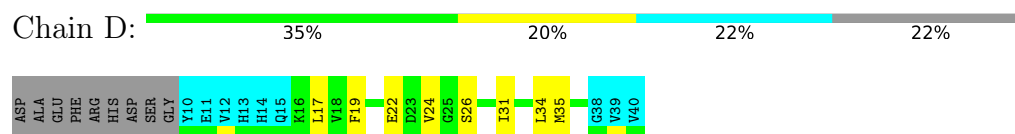
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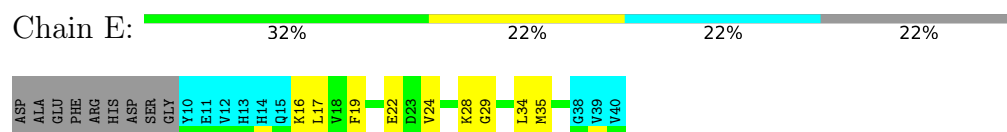
- Molecule 1: Type IIIb beta-amyloid 40 Filament



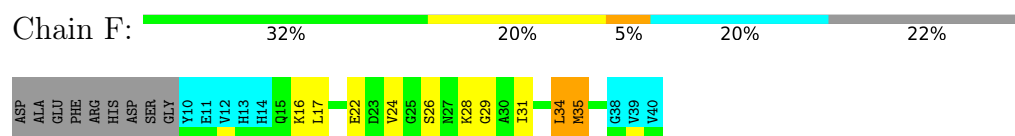
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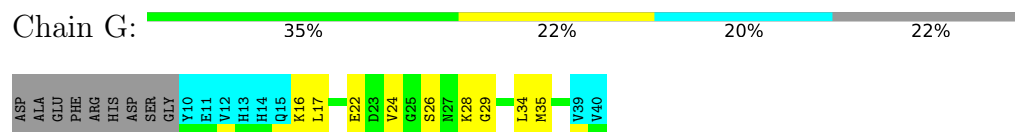
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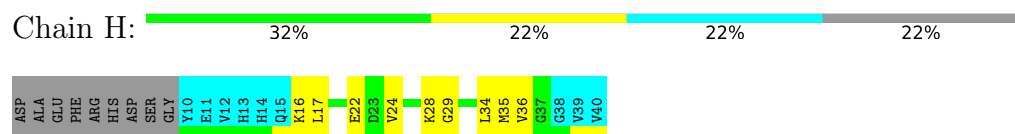
- Molecule 1: Type IIIb beta-amyloid 40 Filament



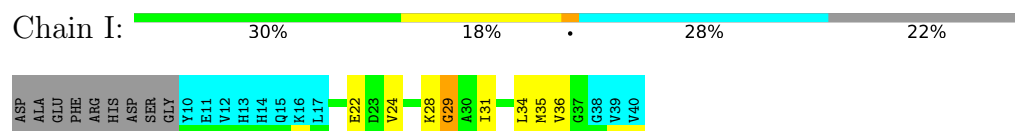
- Molecule 1: Type IIIb beta-amyloid 40 Filament



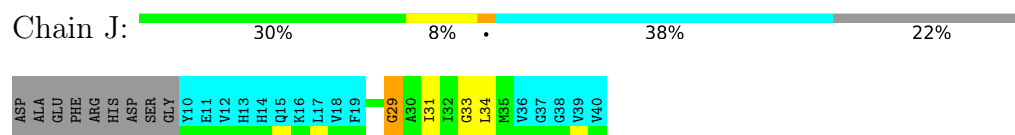
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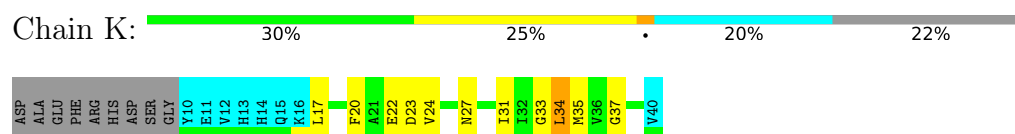
- Molecule 1: Type IIIb beta-amyloid 40 Filament



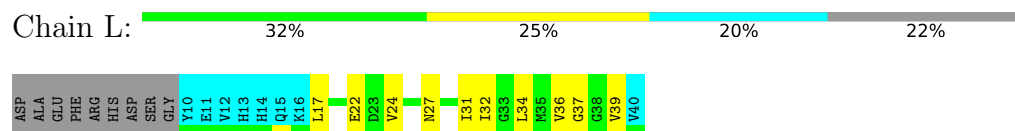
- Molecule 1: Type IIIb beta-amyloid 40 Filament



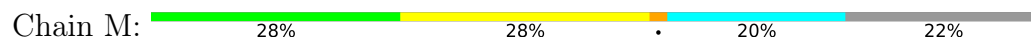
- Molecule 1: Type IIIb beta-amyloid 40 Filament



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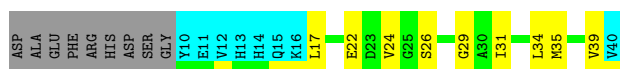




- Molecule 1: Type IIIb beta-amyloid 40 Filament



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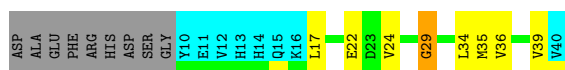
- Molecule 1: Type IIIb beta-amyloid 40 Filament



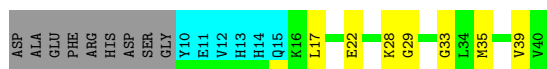
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament




4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1 (medoid)

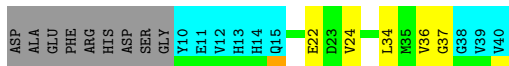
- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain A: 

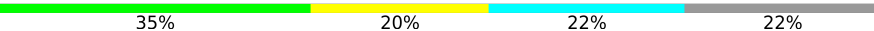


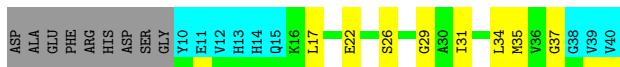
- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain B: 

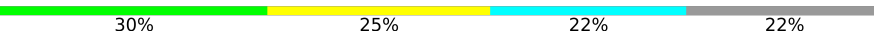


- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain C: 




- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain D: 



- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain E: 

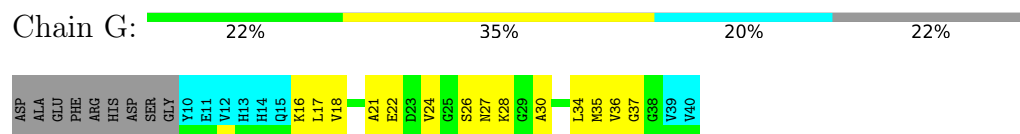


- Molecule 1: Type IIIb beta-amyloid 40 Filament

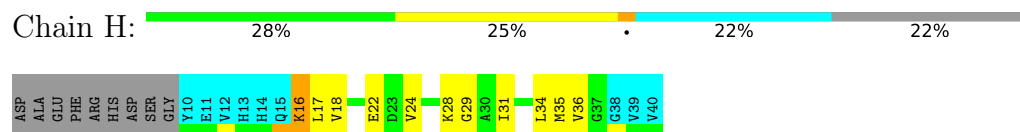
Chain F: 



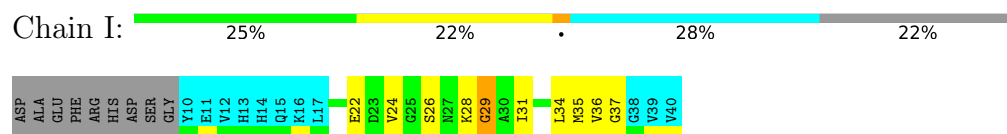
- Molecule 1: Type IIIb beta-amyloid 40 Filament



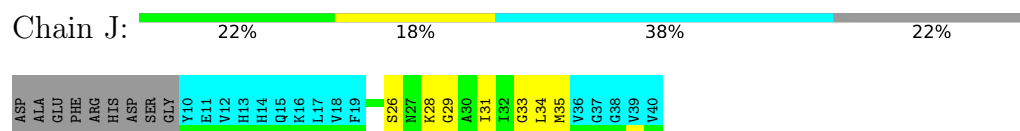
- Molecule 1: Type IIIb beta-amyloid 40 Filament



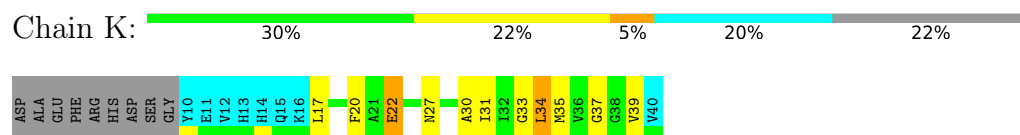
- Molecule 1: Type IIIb beta-amyloid 40 Filament



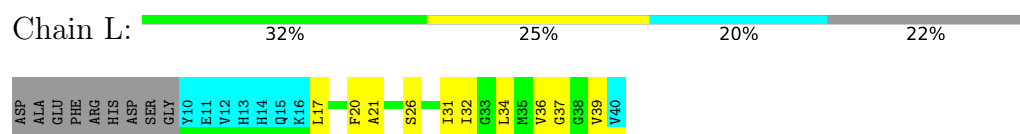
- Molecule 1: Type IIIb beta-amyloid 40 Filament



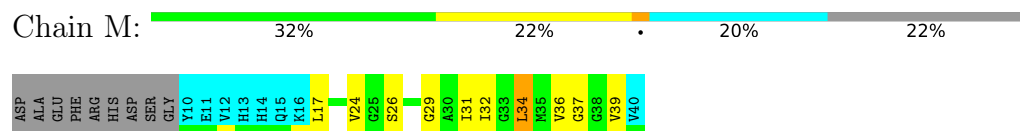
- Molecule 1: Type IIIb beta-amyloid 40 Filament



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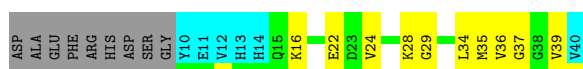


- Molecule 1: Type IIIb beta-amyloid 40 Filament

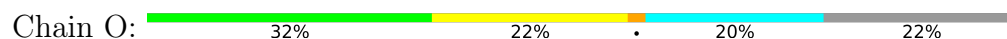


- Molecule 1: Type IIIb beta-amyloid 40 Filament





- Molecule 1: Type IIIb beta-amyloid 40 Filament



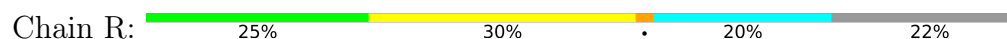
- Molecule 1: Type IIIb beta-amyloid 40 Filament



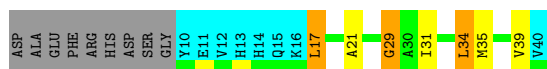
- Molecule 1: Type IIIb beta-amyloid 40 Filament



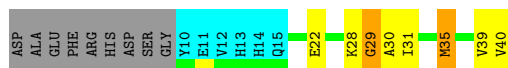
- Molecule 1: Type IIIb beta-amyloid 40 Filament



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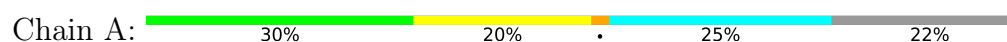


- Molecule 1: Type IIIb beta-amyloid 40 Filament



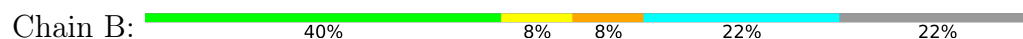
4.2.2 Score per residue for model 2

- Molecule 1: Type IIIb beta-amyloid 40 Filament

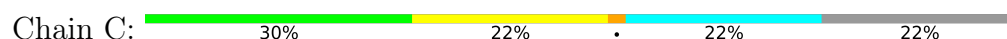




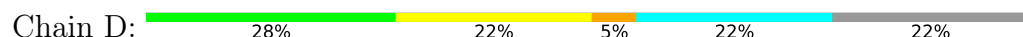
- Molecule 1: Type IIIb beta-amyloid 40 Filament



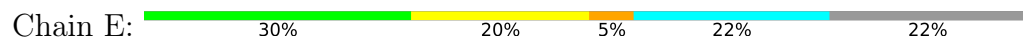
- Molecule 1: Type IIIb beta-amyloid 40 Filament



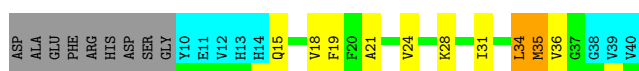
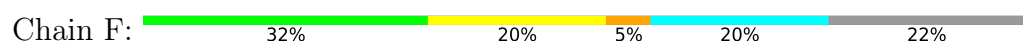
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



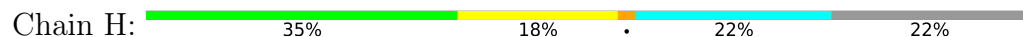
- Molecule 1: Type IIIb beta-amyloid 40 Filament



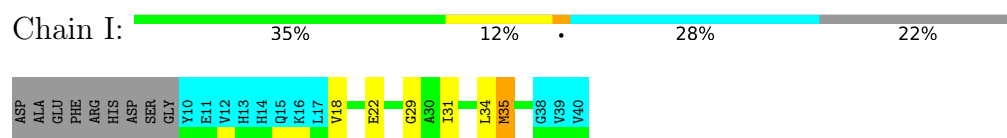
- Molecule 1: Type IIIb beta-amyloid 40 Filament



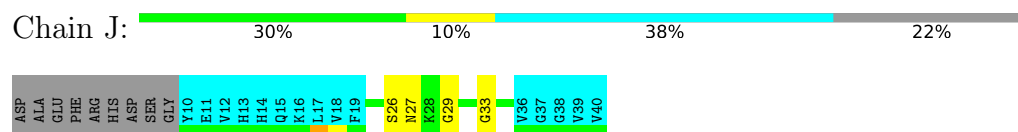
- Molecule 1: Type IIIb beta-amyloid 40 Filament



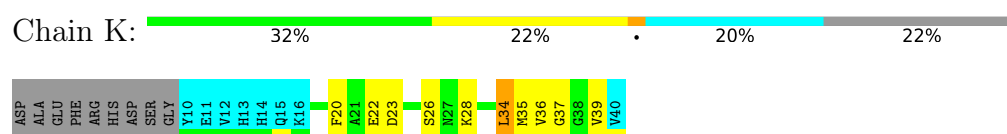
- Molecule 1: Type IIIb beta-amyloid 40 Filament



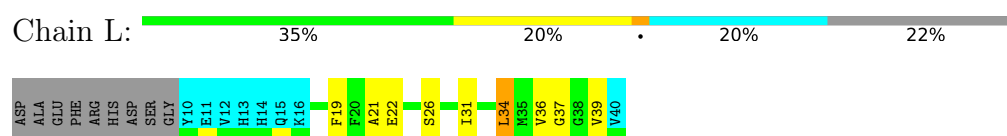
- Molecule 1: Type IIIb beta-amyloid 40 Filament



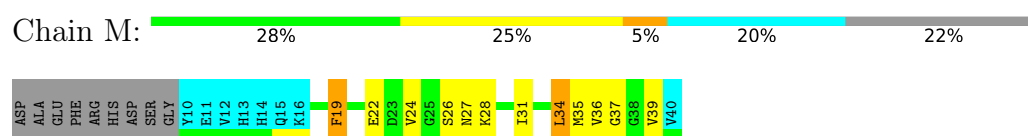
- Molecule 1: Type IIIb beta-amyloid 40 Filament



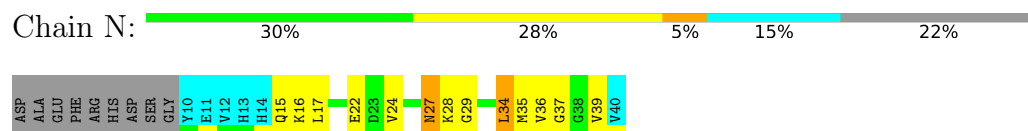
- Molecule 1: Type IIIb beta-amyloid 40 Filament



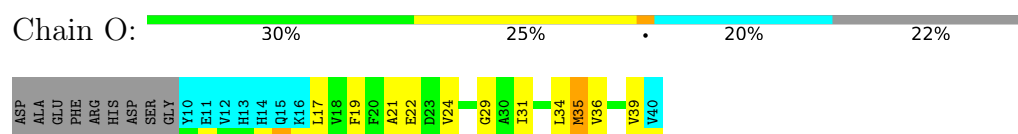
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

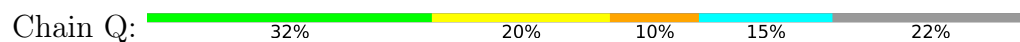


- Molecule 1: Type IIIb beta-amyloid 40 Filament

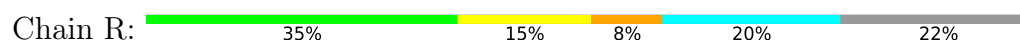




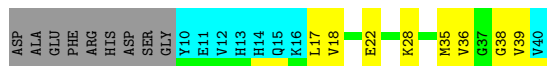
- Molecule 1: Type IIIb beta-amyloid 40 Filament



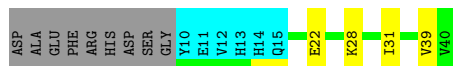
- Molecule 1: Type IIIb beta-amyloid 40 Filament



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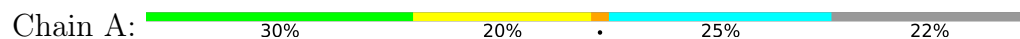


- Molecule 1: Type IIIb beta-amyloid 40 Filament

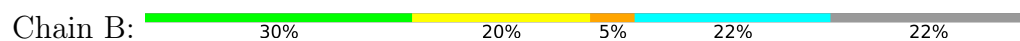


4.2.3 Score per residue for model 3

- Molecule 1: Type IIIb beta-amyloid 40 Filament

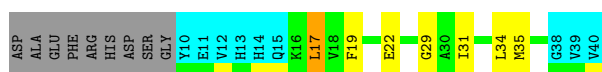


- Molecule 1: Type IIIb beta-amyloid 40 Filament

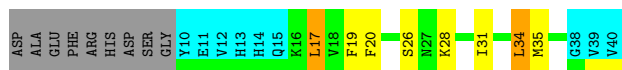
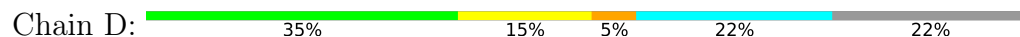


- Molecule 1: Type IIIb beta-amyloid 40 Filament





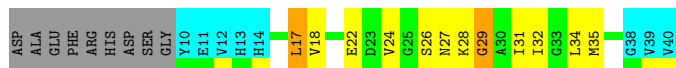
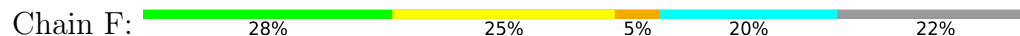
- Molecule 1: Type IIIb beta-amyloid 40 Filament



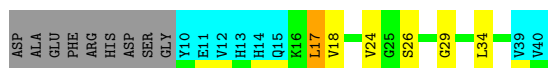
- Molecule 1: Type IIIb beta-amyloid 40 Filament



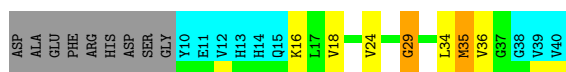
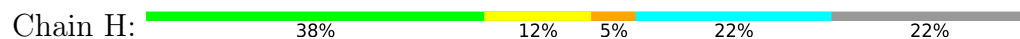
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



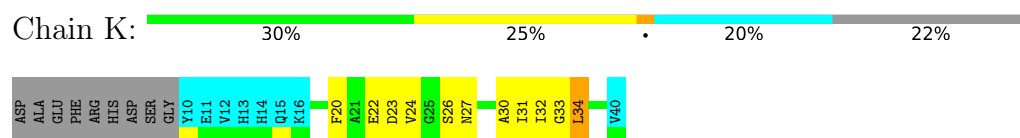
- Molecule 1: Type IIIb beta-amyloid 40 Filament



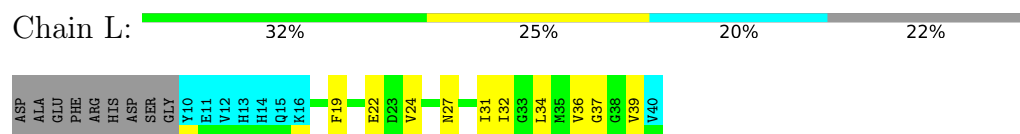
- Molecule 1: Type IIIb beta-amyloid 40 Filament



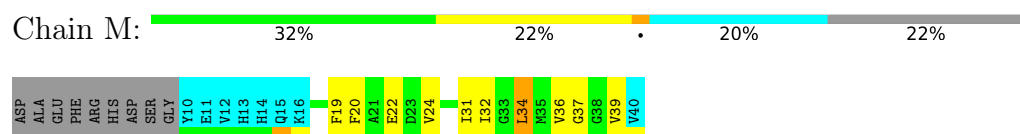
- Molecule 1: Type IIIb beta-amyloid 40 Filament



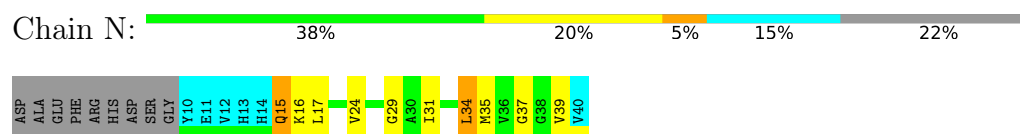
- Molecule 1: Type IIIb beta-amyloid 40 Filament



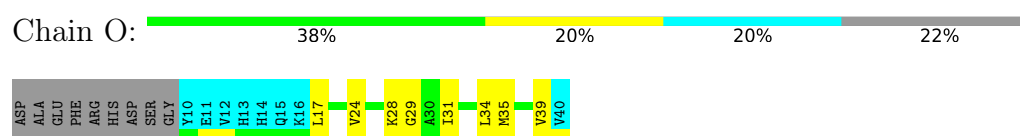
- Molecule 1: Type IIIb beta-amyloid 40 Filament



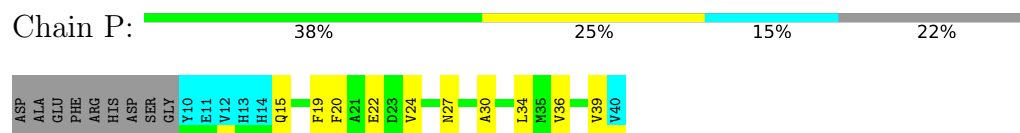
- Molecule 1: Type IIIb beta-amyloid 40 Filament



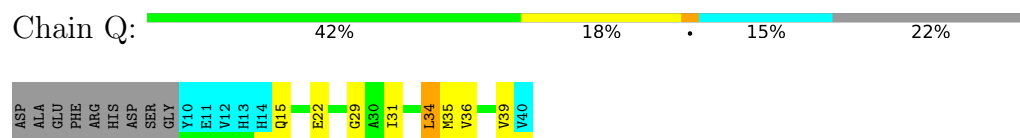
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

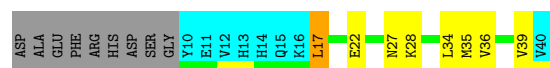


- Molecule 1: Type IIIb beta-amyloid 40 Filament




- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain R: 



- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain S: 



- Molecule 1: Type IIIb beta-amyloid 40 Filament

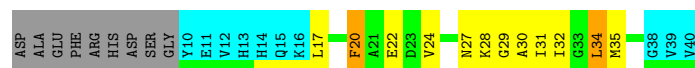
Chain T: 




4.2.4 Score per residue for model 4

- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain A: 

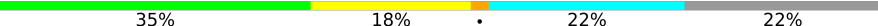


- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain B: 




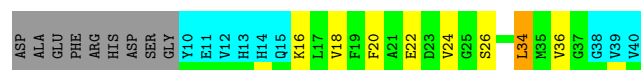
- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain C: 




- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain D: 




- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain E: 



- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain F: 




- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain G: 




- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain H: 



- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain I: 




- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain J: 




- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain K: 

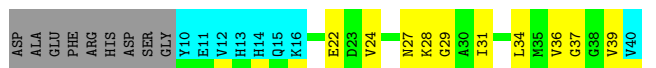


- Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain L: 



- Molecule 1: Type IIIb beta-amyloid 40 Filament



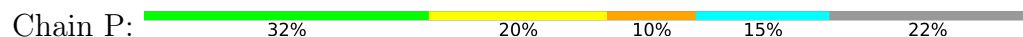
- Molecule 1: Type IIIb beta-amyloid 40 Filament



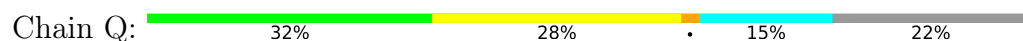
- Molecule 1: Type IIIb beta-amyloid 40 Filament



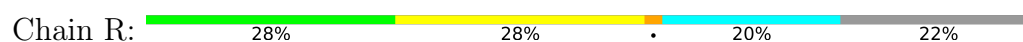
- Molecule 1: Type IIIb beta-amyloid 40 Filament



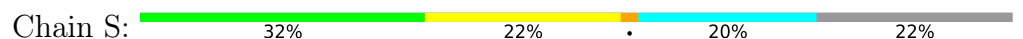
- Molecule 1: Type IIIb beta-amyloid 40 Filament



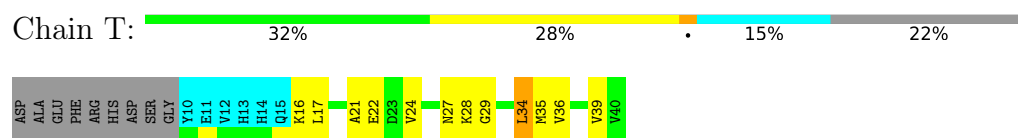
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

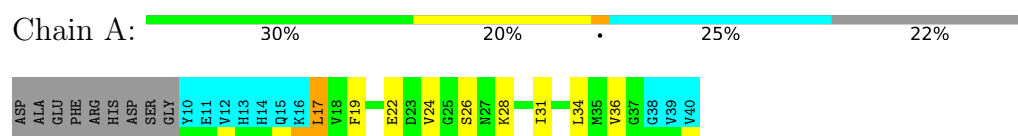


- Molecule 1: Type IIIb beta-amyloid 40 Filament

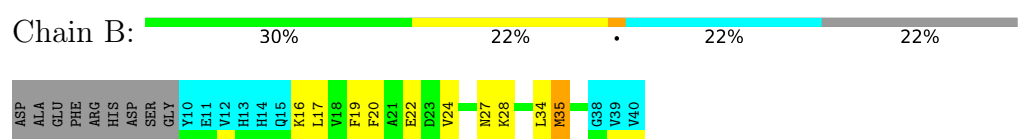


4.2.5 Score per residue for model 5

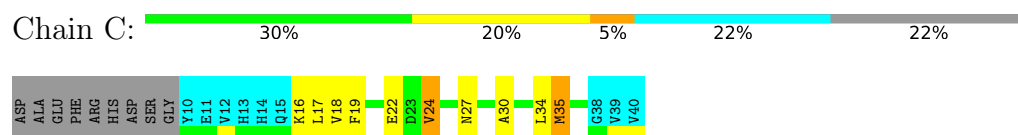
- Molecule 1: Type IIIb beta-amyloid 40 Filament



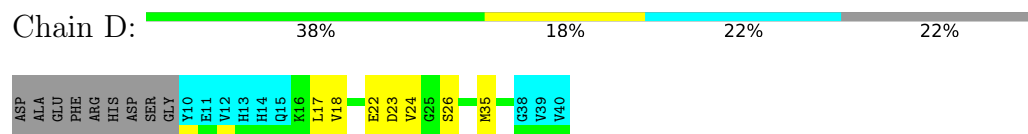
- Molecule 1: Type IIIb beta-amyloid 40 Filament



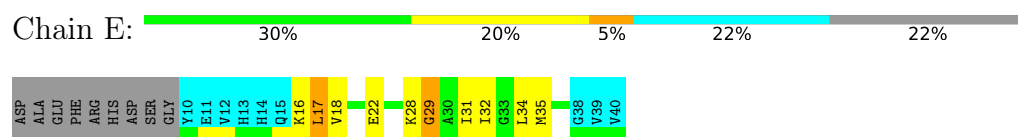
- Molecule 1: Type IIIb beta-amyloid 40 Filament



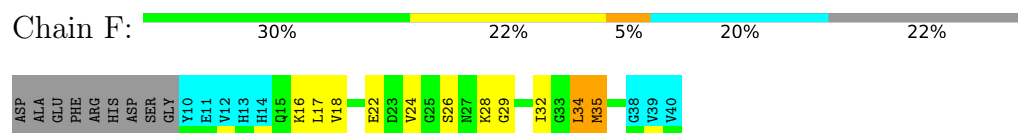
- Molecule 1: Type IIIb beta-amyloid 40 Filament



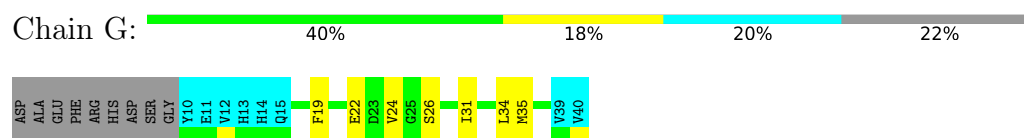
- Molecule 1: Type IIIb beta-amyloid 40 Filament



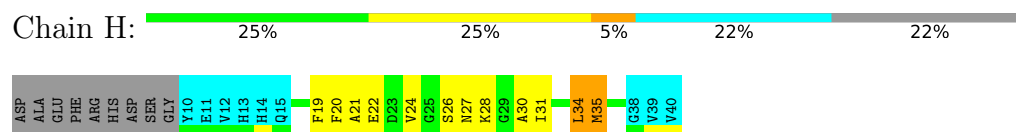
- Molecule 1: Type IIIb beta-amyloid 40 Filament



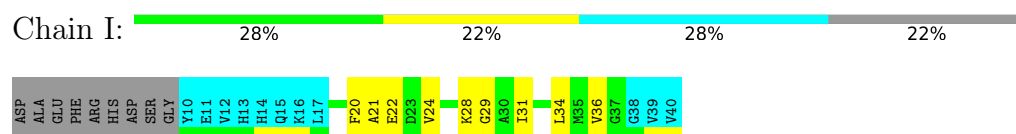
- Molecule 1: Type IIIb beta-amyloid 40 Filament



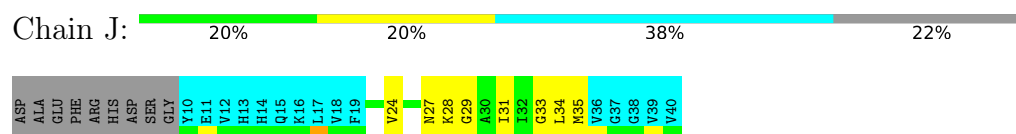
- Molecule 1: Type IIIb beta-amyloid 40 Filament



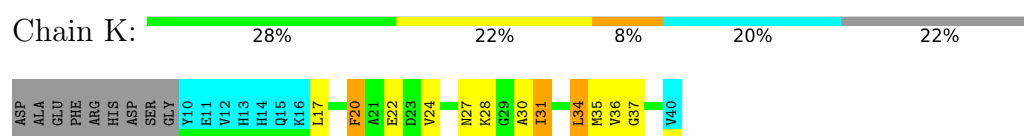
- Molecule 1: Type IIIb beta-amyloid 40 Filament



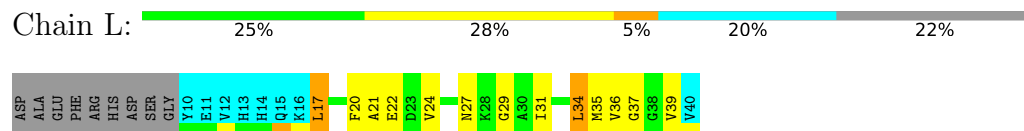
- Molecule 1: Type IIIb beta-amyloid 40 Filament



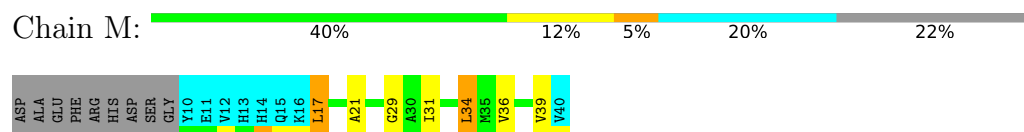
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

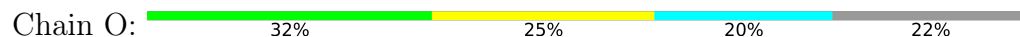


- Molecule 1: Type IIIb beta-amyloid 40 Filament

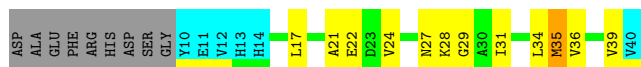




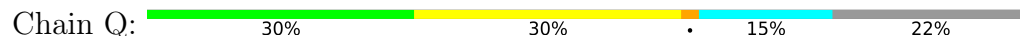
- Molecule 1: Type IIIb beta-amyloid 40 Filament



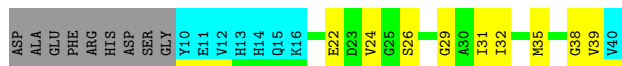
- Molecule 1: Type IIIb beta-amyloid 40 Filament



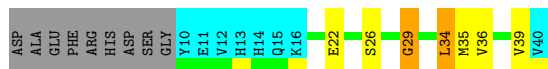
- Molecule 1: Type IIIb beta-amyloid 40 Filament



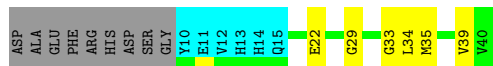
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



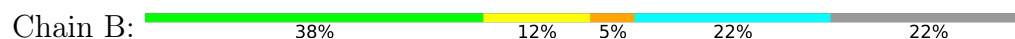
4.2.6 Score per residue for model 6

- Molecule 1: Type IIIb beta-amyloid 40 Filament

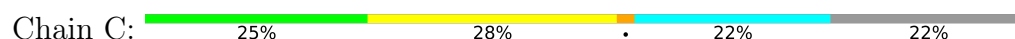




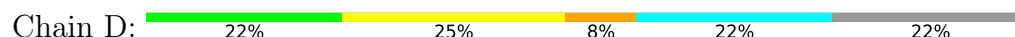
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



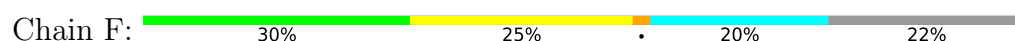
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



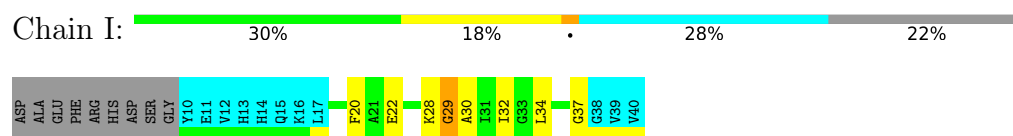
- Molecule 1: Type IIIb beta-amyloid 40 Filament



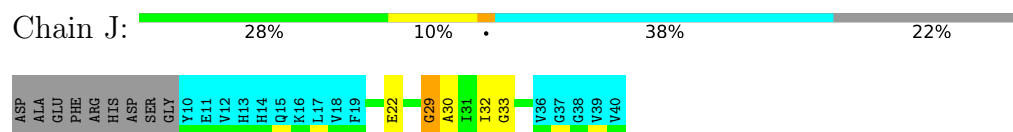
- Molecule 1: Type IIIb beta-amyloid 40 Filament



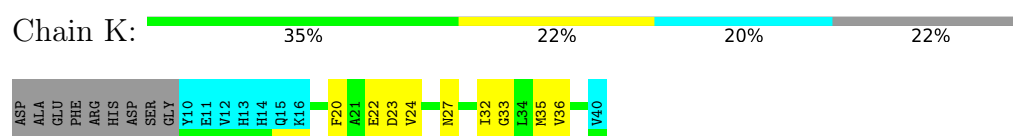
- Molecule 1: Type IIIb beta-amyloid 40 Filament



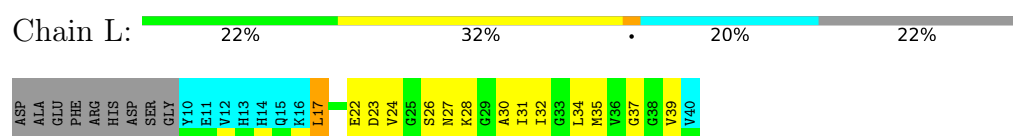
- Molecule 1: Type IIIb beta-amyloid 40 Filament



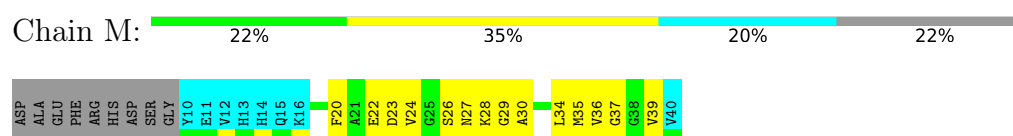
- Molecule 1: Type IIIb beta-amyloid 40 Filament



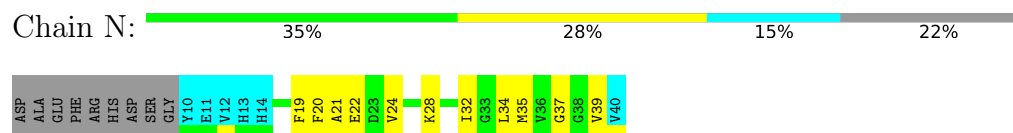
- Molecule 1: Type IIIb beta-amyloid 40 Filament



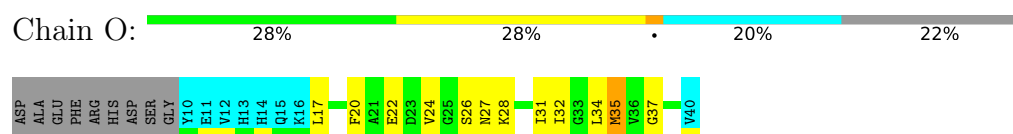
- Molecule 1: Type IIIb beta-amyloid 40 Filament



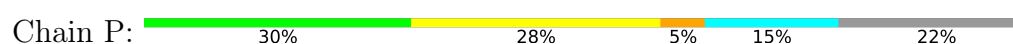
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

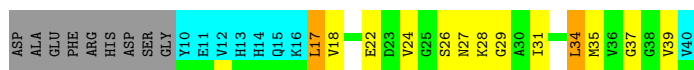
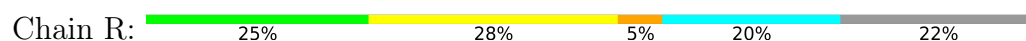




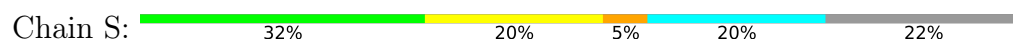
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

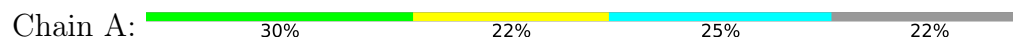


- Molecule 1: Type IIIb beta-amyloid 40 Filament



4.2.7 Score per residue for model 7

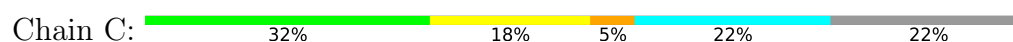
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

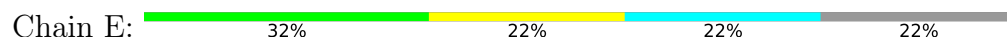




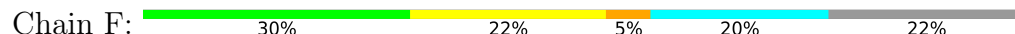
- Molecule 1: Type IIIb beta-amyloid 40 Filament



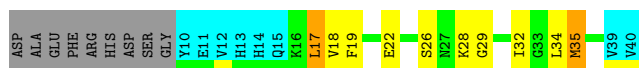
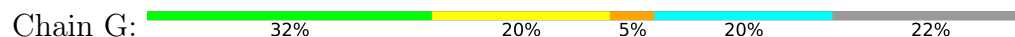
- Molecule 1: Type IIIb beta-amyloid 40 Filament



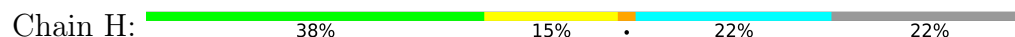
- Molecule 1: Type IIIb beta-amyloid 40 Filament



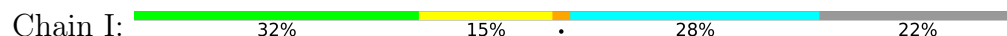
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



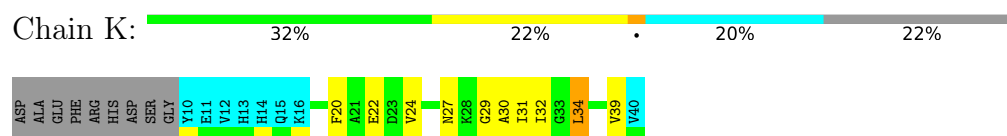
- Molecule 1: Type IIIb beta-amyloid 40 Filament



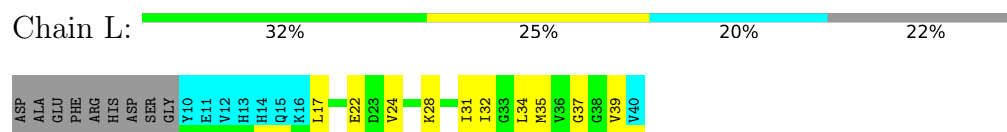
- Molecule 1: Type IIIb beta-amyloid 40 Filament



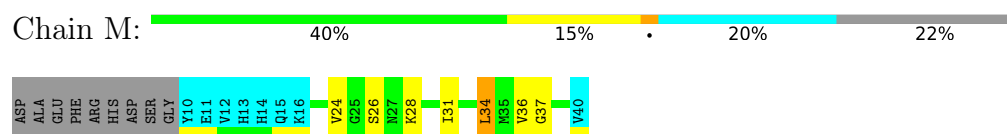
- Molecule 1: Type IIIb beta-amyloid 40 Filament



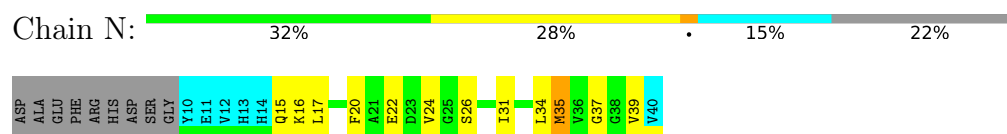
- Molecule 1: Type IIIb beta-amyloid 40 Filament



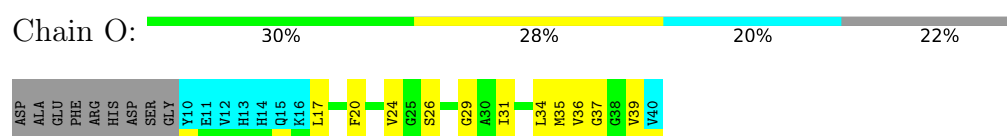
- Molecule 1: Type IIIb beta-amyloid 40 Filament



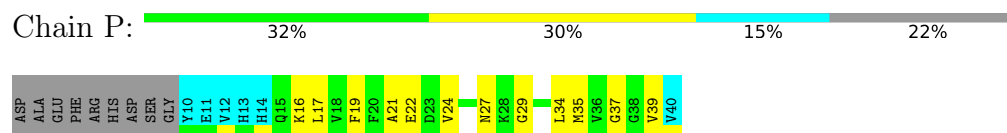
- Molecule 1: Type IIIb beta-amyloid 40 Filament



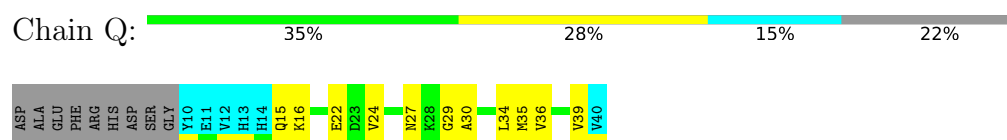
- Molecule 1: Type IIIb beta-amyloid 40 Filament



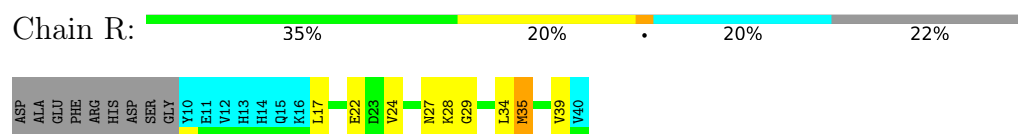
- Molecule 1: Type IIIb beta-amyloid 40 Filament



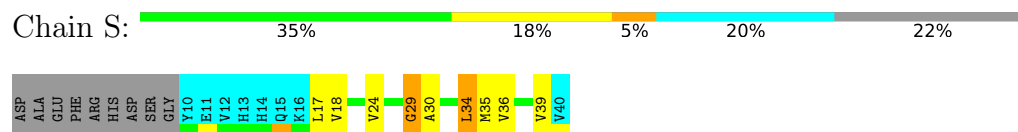
- Molecule 1: Type IIIb beta-amyloid 40 Filament



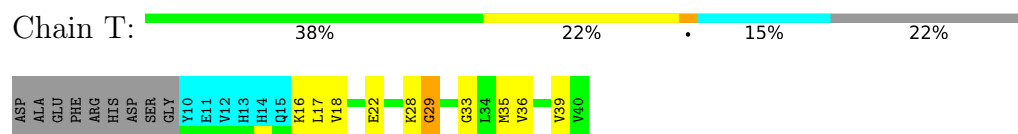
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

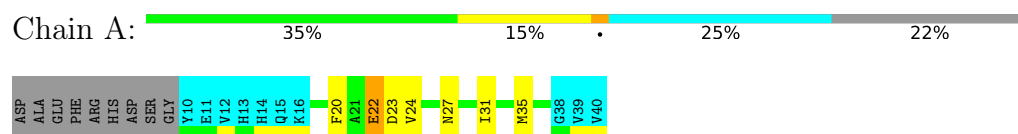


- Molecule 1: Type IIIb beta-amyloid 40 Filament

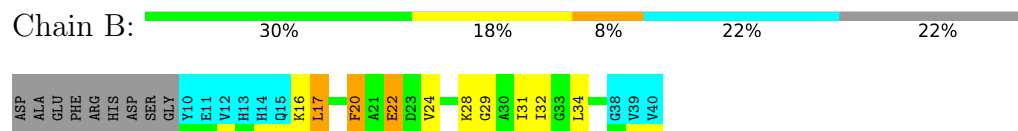


4.2.8 Score per residue for model 8

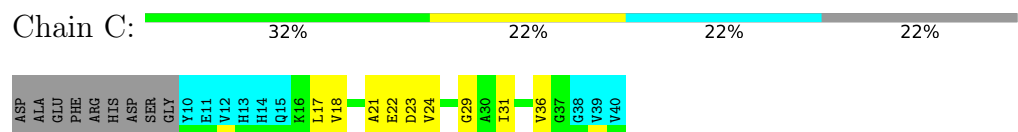
- Molecule 1: Type IIIb beta-amyloid 40 Filament



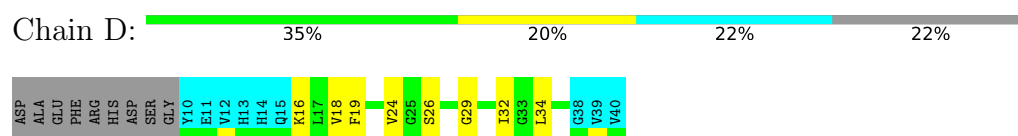
- Molecule 1: Type IIIb beta-amyloid 40 Filament



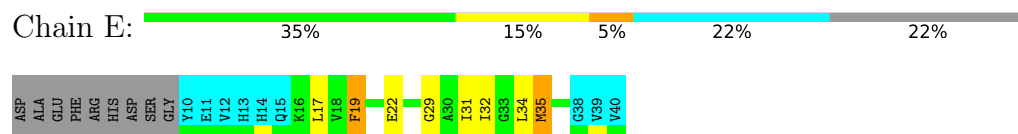
- Molecule 1: Type IIIb beta-amyloid 40 Filament



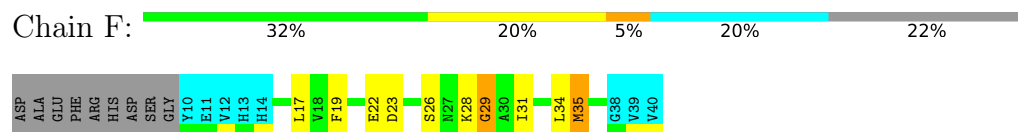
- Molecule 1: Type IIIb beta-amyloid 40 Filament



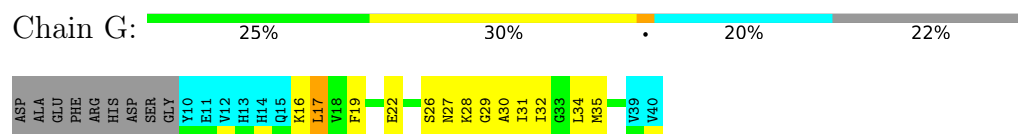
- Molecule 1: Type IIIb beta-amyloid 40 Filament



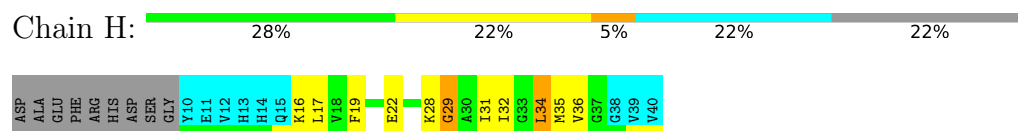
- Molecule 1: Type IIIb beta-amyloid 40 Filament



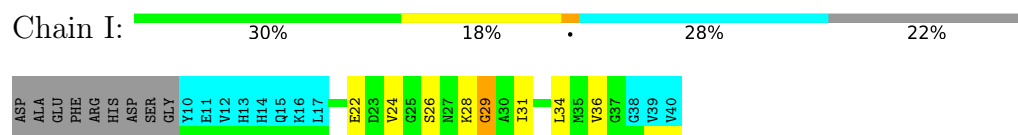
- Molecule 1: Type IIIb beta-amyloid 40 Filament



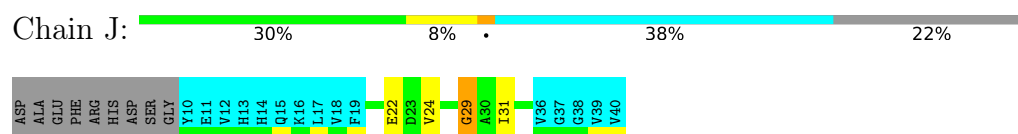
- Molecule 1: Type IIIb beta-amyloid 40 Filament



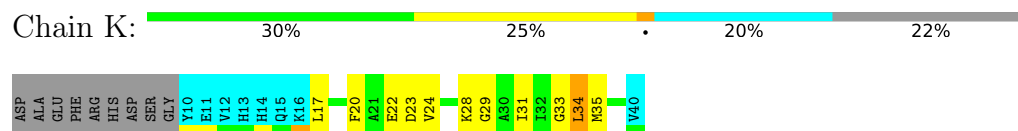
- Molecule 1: Type IIIb beta-amyloid 40 Filament



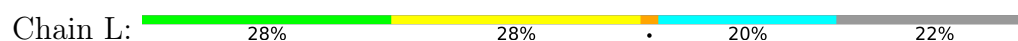
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

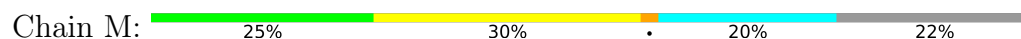


- Molecule 1: Type IIIb beta-amyloid 40 Filament





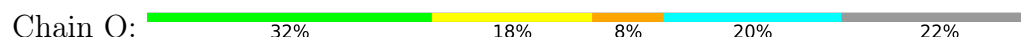
- Molecule 1: Type IIIb beta-amyloid 40 Filament



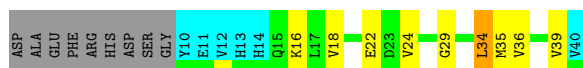
- Molecule 1: Type IIIb beta-amyloid 40 Filament



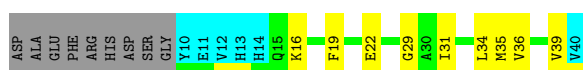
- Molecule 1: Type IIIb beta-amyloid 40 Filament



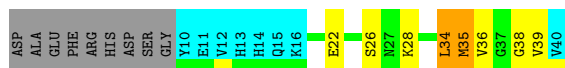
- Molecule 1: Type IIIb beta-amyloid 40 Filament



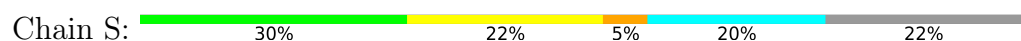
- Molecule 1: Type IIIb beta-amyloid 40 Filament



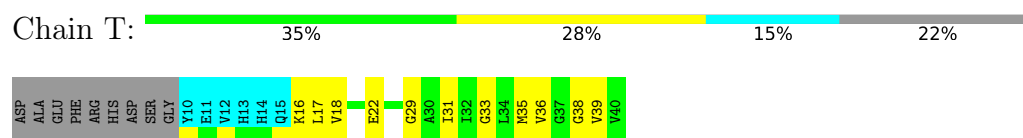
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

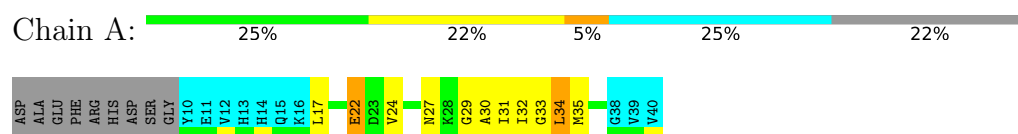


- Molecule 1: Type IIIb beta-amyloid 40 Filament

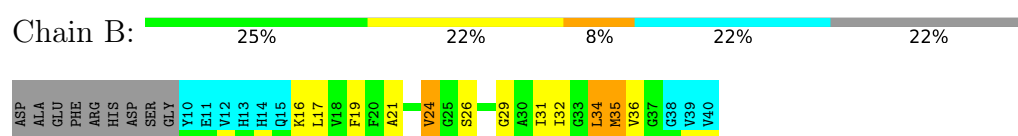


4.2.9 Score per residue for model 9

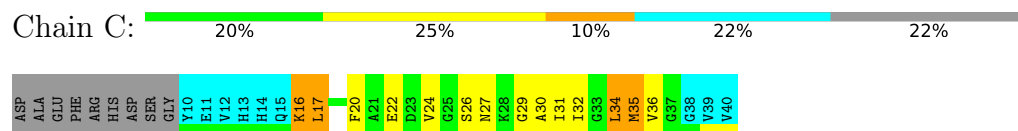
- Molecule 1: Type IIIb beta-amyloid 40 Filament



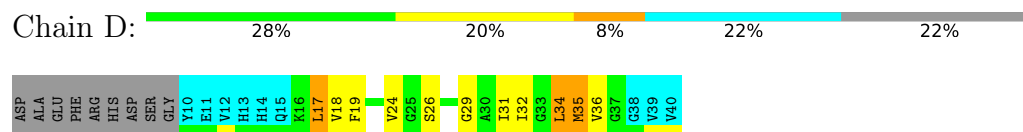
- Molecule 1: Type IIIb beta-amyloid 40 Filament



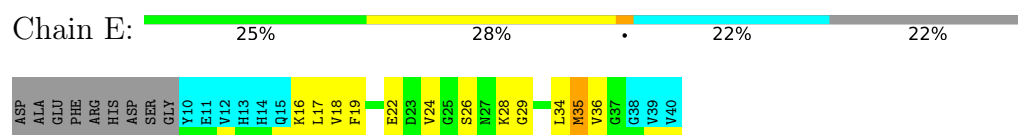
- Molecule 1: Type IIIb beta-amyloid 40 Filament



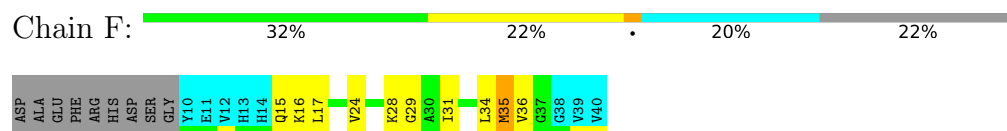
- Molecule 1: Type IIIb beta-amyloid 40 Filament



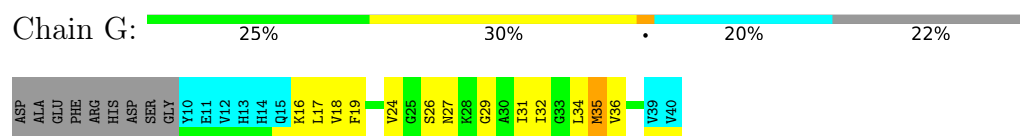
- Molecule 1: Type IIIb beta-amyloid 40 Filament



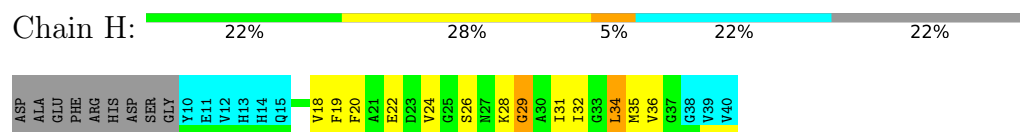
- Molecule 1: Type IIIb beta-amyloid 40 Filament



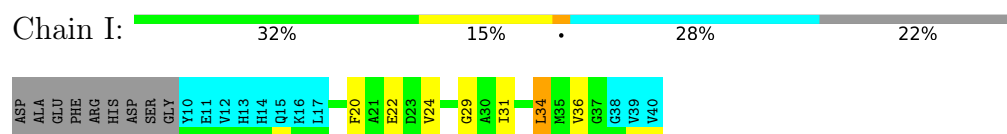
• Molecule 1: Type IIIb beta-amyloid 40 Filament



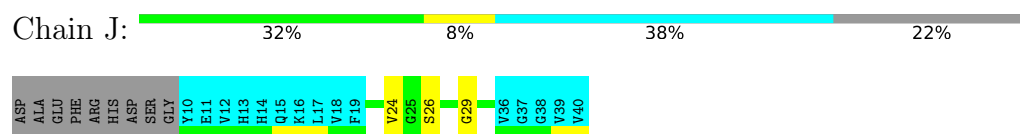
• Molecule 1: Type IIIb beta-amyloid 40 Filament



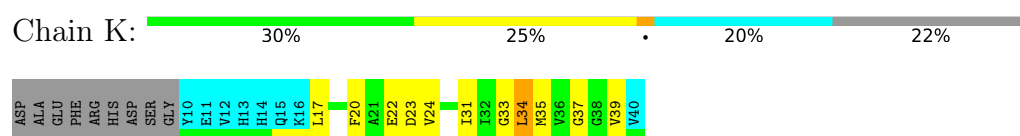
• Molecule 1: Type IIIb beta-amyloid 40 Filament



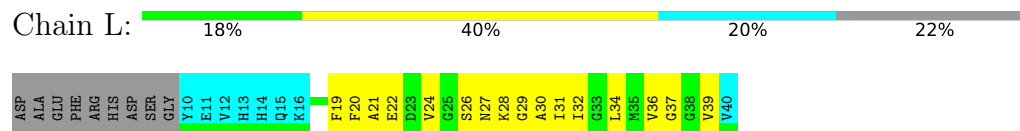
• Molecule 1: Type IIIb beta-amyloid 40 Filament



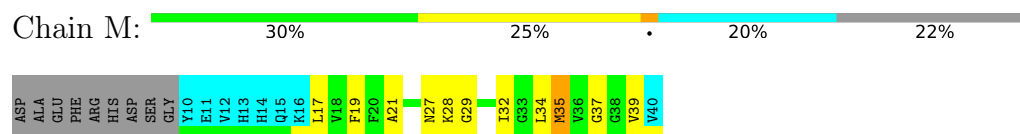
• Molecule 1: Type IIIb beta-amyloid 40 Filament



• Molecule 1: Type IIIb beta-amyloid 40 Filament

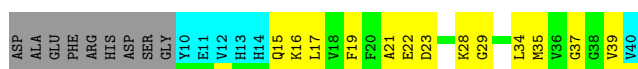


• Molecule 1: Type IIIb beta-amyloid 40 Filament

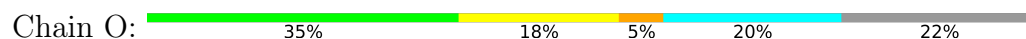


• Molecule 1: Type IIIb beta-amyloid 40 Filament

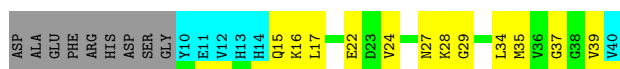




- Molecule 1: Type IIIb beta-amyloid 40 Filament



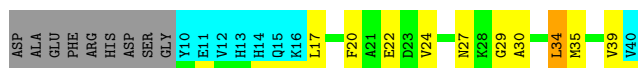
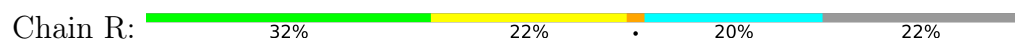
- Molecule 1: Type IIIb beta-amyloid 40 Filament



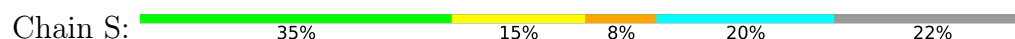
- Molecule 1: Type IIIb beta-amyloid 40 Filament



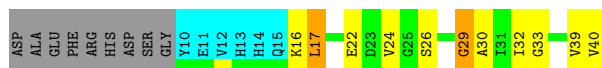
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament

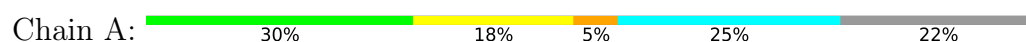


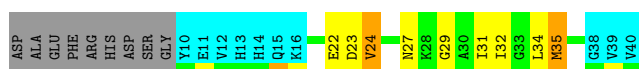
- Molecule 1: Type IIIb beta-amyloid 40 Filament



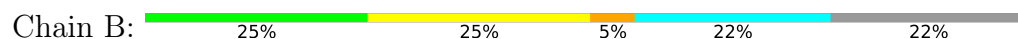
4.2.10 Score per residue for model 10

- Molecule 1: Type IIIb beta-amyloid 40 Filament

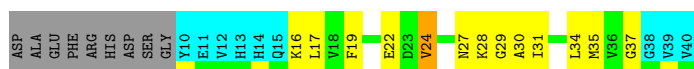
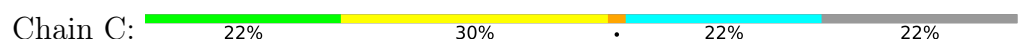




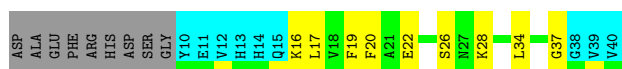
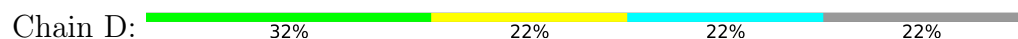
- Molecule 1: Type IIIb beta-amyloid 40 Filament



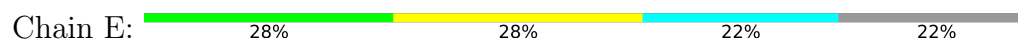
- Molecule 1: Type IIIb beta-amyloid 40 Filament



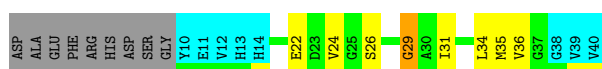
- Molecule 1: Type IIIb beta-amyloid 40 Filament



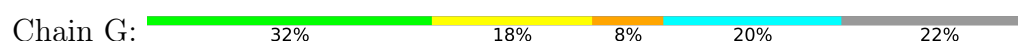
- Molecule 1: Type IIIb beta-amyloid 40 Filament



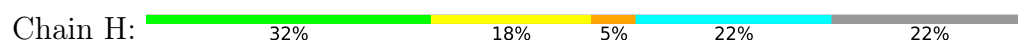
- Molecule 1: Type IIIb beta-amyloid 40 Filament




- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



• Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain I:  30% 18% • 28% 22%


• Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain J:  28% 8% 5% 38% 22%

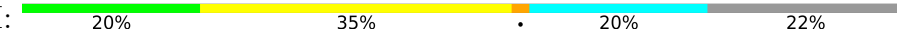
• Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain K:  38% 18% • 20% 22%

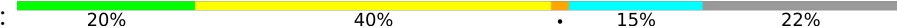
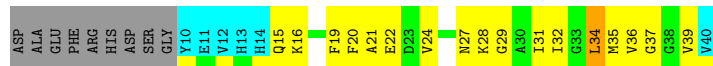
• Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain L:  30% 25% • 20% 22%

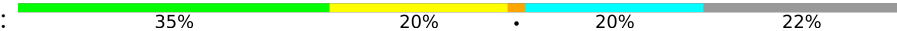
• Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain M:  20% 35% • 20% 22%

• Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain N:  20% 40% • 15% 22%

• Molecule 1: Type IIIb beta-amyloid 40 Filament

Chain O:  35% 20% • 20% 22%

• Molecule 1: Type IIIb beta-amyloid 40 Filament

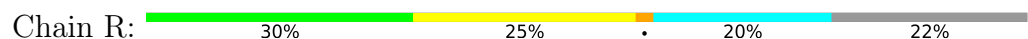
Chain P:  42% 20% 15% 22%



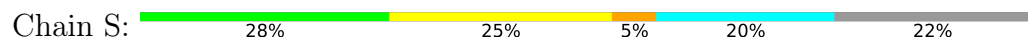
- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



- Molecule 1: Type IIIb beta-amyloid 40 Filament



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing*.

Of the 10 calculated structures, 10 were deposited, based on the following criterion: *structures with the lowest energy*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
CYANA	structure calculation	
TALOS-N	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	178
Number of shifts mapped to atoms	165
Number of unparsed shifts	0
Number of shifts with mapping errors	13
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	2%

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

6 Model quality

6.1 Standard geometry

There are no covalent bond-length or bond-angle outliers.

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 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 each 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 averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	149	154	154	8±3
1	B	158	167	167	10±4
1	C	158	167	167	10±3
1	D	158	167	167	9±3
1	E	158	167	167	9±2
1	F	167	175	175	9±2
1	G	162	170	170	10±3
1	H	158	167	167	9±3
1	I	141	143	143	7±2
1	J	112	113	113	4±2
1	K	160	166	166	7±4
1	L	160	166	166	12±3
1	M	160	166	166	11±4
1	N	178	187	187	8±3
1	O	160	166	166	9±3
1	P	178	187	187	10±2
1	Q	178	187	187	11±3
1	R	160	166	166	10±3
1	S	160	166	166	10±3
1	T	176	188	188	6±2
All	All	31910	33350	33350	1039

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 16.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:36:VAL:HG11	1:P:34:LEU:HD21	0.99	1.32	6	3
1:B:36:VAL:HG11	1:L:34:LEU:HD21	0.99	1.35	3	3
1:B:17:LEU:HD23	1:C:17:LEU:HD11	0.95	1.34	2	2
1:C:17:LEU:HD23	1:D:17:LEU:HD11	0.92	1.41	3	1
1:O:17:LEU:HD23	1:P:17:LEU:HD11	0.92	1.39	6	1
1:G:34:LEU:HD21	1:Q:36:VAL:HG11	0.91	1.42	5	8
1:D:31:ILE:HG21	1:D:34:LEU:HD12	0.91	1.42	7	6
1:H:34:LEU:HD21	1:R:36:VAL:HG11	0.90	1.40	3	1
1:M:31:ILE:HG21	1:M:34:LEU:HD12	0.89	1.40	4	5
1:A:34:LEU:HD11	1:K:36:VAL:HG11	0.88	1.42	2	2
1:L:31:ILE:HG21	1:L:34:LEU:HD12	0.85	1.48	10	1
1:R:35:MET:HE1	1:S:17:LEU:HD22	0.85	1.45	1	1
1:D:17:LEU:HD23	1:E:17:LEU:HD22	0.84	1.49	6	1
1:L:34:LEU:HD23	1:M:34:LEU:HD13	0.84	1.49	9	2
1:O:31:ILE:HG21	1:O:34:LEU:HD12	0.84	1.46	5	6
1:G:24:VAL:HG13	1:H:24:VAL:HG23	0.82	1.51	2	1
1:B:31:ILE:HG21	1:B:34:LEU:HD12	0.81	1.53	3	2
1:I:34:LEU:HD11	1:S:36:VAL:HG11	0.81	1.51	10	2
1:R:17:LEU:HD11	1:S:17:LEU:HD12	0.81	1.52	3	1
1:O:35:MET:HE3	1:P:17:LEU:HD22	0.81	1.49	9	1
1:M:34:LEU:HD23	1:N:34:LEU:HD13	0.80	1.51	9	1
1:I:36:VAL:HG11	1:S:34:LEU:HD21	0.80	1.53	7	4
1:B:17:LEU:HD23	1:C:17:LEU:HD13	0.79	1.51	4	1
1:P:39:VAL:HG23	1:Q:39:VAL:HG13	0.79	1.52	8	3
1:P:31:ILE:HG21	1:P:34:LEU:HD12	0.79	1.50	2	2
1:S:39:VAL:HG22	1:T:39:VAL:HG12	0.79	1.54	9	1
1:C:31:ILE:HG21	1:C:34:LEU:HD12	0.78	1.54	10	5
1:B:34:LEU:HD23	1:C:34:LEU:HD13	0.77	1.55	7	1
1:H:36:VAL:HG11	1:R:34:LEU:HD21	0.76	1.56	9	3
1:S:24:VAL:HG13	1:T:24:VAL:HG23	0.76	1.55	3	2
1:K:32:ILE:HD13	1:L:32:ILE:HD13	0.75	1.57	10	3
1:E:31:ILE:HG21	1:E:34:LEU:HD12	0.75	1.58	5	2
1:G:34:LEU:HD23	1:H:34:LEU:HD13	0.75	1.56	3	1
1:E:34:LEU:HD11	1:O:36:VAL:HG11	0.74	1.59	2	2
1:E:17:LEU:HD23	1:E:35:MET:HE3	0.74	1.56	5	1
1:Q:24:VAL:HG13	1:R:24:VAL:HG23	0.74	1.56	1	2
1:M:17:LEU:HD12	1:M:35:MET:HE2	0.74	1.58	10	1
1:C:17:LEU:HD12	1:C:35:MET:HE3	0.73	1.59	2	2
1:L:31:ILE:HG21	1:L:34:LEU:HD22	0.73	1.59	6	3
1:O:34:LEU:HD23	1:P:34:LEU:HD13	0.73	1.57	7	1
1:P:34:LEU:HD23	1:Q:34:LEU:HD13	0.73	1.59	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:34:LEU:HD11	1:P:36:VAL:HG11	0.73	1.58	5	2
1:M:39:VAL:HG23	1:N:39:VAL:HG13	0.73	1.59	6	3
1:P:24:VAL:HG13	1:Q:24:VAL:HG23	0.73	1.60	4	2
1:D:17:LEU:HD22	1:E:35:MET:HE1	0.73	1.59	1	1
1:A:24:VAL:HG21	1:A:32:ILE:HD13	0.73	1.59	2	1
1:R:17:LEU:HD23	1:S:17:LEU:HD13	0.73	1.60	6	2
1:I:24:VAL:HG13	1:J:24:VAL:HG23	0.73	1.58	5	1
1:L:17:LEU:HD12	1:L:35:MET:HE2	0.73	1.59	10	1
1:F:34:LEU:HD13	1:G:34:LEU:HD13	0.73	1.60	7	2
1:S:34:LEU:HD13	1:T:34:LEU:HD12	0.73	1.59	5	1
1:O:24:VAL:HG13	1:P:24:VAL:HG23	0.73	1.58	5	2
1:P:18:VAL:HG23	1:Q:18:VAL:HG23	0.72	1.60	6	1
1:N:31:ILE:HG21	1:N:34:LEU:HD12	0.72	1.59	7	2
1:C:36:VAL:HG11	1:M:34:LEU:HD21	0.72	1.61	6	3
1:I:36:VAL:HG11	1:S:34:LEU:HD11	0.71	1.60	10	3
1:L:17:LEU:HD11	1:M:17:LEU:HD12	0.70	1.62	5	1
1:D:34:LEU:HD13	1:E:34:LEU:HD13	0.70	1.63	3	2
1:B:17:LEU:HD23	1:C:35:MET:HE1	0.70	1.62	5	1
1:O:24:VAL:HG23	1:P:24:VAL:HG23	0.70	1.64	10	1
1:F:17:LEU:HD23	1:G:17:LEU:HD13	0.70	1.63	6	2
1:O:39:VAL:HG22	1:P:39:VAL:HG12	0.69	1.62	3	2
1:A:17:LEU:HD23	1:B:35:MET:HE1	0.69	1.62	5	1
1:H:36:VAL:HG21	1:R:34:LEU:HD11	0.69	1.63	1	2
1:R:24:VAL:HG22	1:S:24:VAL:HG12	0.69	1.64	6	1
1:A:34:LEU:HD21	1:K:36:VAL:HG11	0.69	1.64	5	2
1:A:31:ILE:HG21	1:A:34:LEU:HD22	0.68	1.63	10	2
1:D:24:VAL:HG13	1:E:24:VAL:HG23	0.68	1.65	6	1
1:L:39:VAL:HG23	1:M:39:VAL:HG13	0.68	1.64	9	3
1:Q:17:LEU:HD23	1:R:17:LEU:HD13	0.67	1.67	1	2
1:I:36:VAL:HG21	1:S:34:LEU:HD11	0.67	1.65	5	1
1:J:29:GLY:C	1:T:39:VAL:HG21	0.67	2.15	7	7
1:I:34:LEU:HD11	1:S:36:VAL:HG21	0.67	1.66	7	1
1:L:17:LEU:HD23	1:L:35:MET:HE2	0.67	1.64	7	1
1:F:31:ILE:HG21	1:F:34:LEU:HD12	0.67	1.66	6	6
1:A:34:LEU:HD23	1:B:34:LEU:HD13	0.66	1.66	5	3
1:B:34:LEU:HD21	1:L:36:VAL:HG11	0.66	1.68	1	3
1:I:34:LEU:HD21	1:S:36:VAL:HG11	0.66	1.68	4	2
1:C:34:LEU:HD21	1:M:36:VAL:HG21	0.66	1.67	3	1
1:E:29:GLY:HA2	1:O:39:VAL:HG21	0.66	1.68	10	2
1:R:17:LEU:HD23	1:R:35:MET:HE3	0.65	1.67	1	1
1:O:39:VAL:HG23	1:P:39:VAL:HG13	0.65	1.66	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:17:LEU:HD22	1:D:35:MET:HE1	0.65	1.65	6	1
1:A:24:VAL:HG12	1:B:24:VAL:HG22	0.65	1.66	8	3
1:K:24:VAL:HG12	1:L:24:VAL:HG22	0.65	1.68	4	4
1:K:22:GLU:CD	1:L:21:ALA:HB1	0.65	2.17	1	1
1:J:29:GLY:HA2	1:T:39:VAL:HG21	0.65	1.69	2	1
1:Q:39:VAL:HG23	1:R:39:VAL:HG13	0.65	1.68	5	2
1:Q:31:ILE:HG21	1:Q:34:LEU:HD12	0.64	1.68	5	2
1:F:29:GLY:HA2	1:P:39:VAL:HG21	0.64	1.66	10	3
1:F:34:LEU:HD21	1:P:36:VAL:HG11	0.64	1.70	8	2
1:R:24:VAL:HG13	1:S:24:VAL:HG23	0.64	1.70	7	1
1:L:19:PHE:CZ	1:L:21:ALA:HB2	0.64	2.28	8	3
1:A:34:LEU:HB3	1:B:34:LEU:HD22	0.64	1.69	9	3
1:E:29:GLY:CA	1:O:39:VAL:HG21	0.64	2.23	3	2
1:A:32:ILE:HD13	1:B:32:ILE:HD13	0.64	1.69	10	3
1:S:24:VAL:HG23	1:T:24:VAL:HG23	0.64	1.68	6	1
1:J:30:ALA:N	1:T:39:VAL:HG11	0.64	2.08	6	1
1:D:17:LEU:HD23	1:E:17:LEU:HD13	0.64	1.69	2	1
1:H:31:ILE:HG21	1:H:34:LEU:HD12	0.64	1.69	8	3
1:H:34:LEU:HD23	1:I:34:LEU:HD22	0.64	1.67	3	1
1:C:34:LEU:HD11	1:M:36:VAL:HG11	0.64	1.69	5	2
1:D:36:VAL:CG1	1:E:36:VAL:HG12	0.64	2.22	7	1
1:H:34:LEU:HD23	1:I:34:LEU:CD2	0.63	2.23	3	1
1:Q:34:LEU:HD23	1:R:34:LEU:HD13	0.63	1.70	4	1
1:P:34:LEU:HB3	1:Q:34:LEU:HD12	0.63	1.68	4	2
1:O:34:LEU:HB3	1:P:34:LEU:HD22	0.63	1.71	8	2
1:B:31:ILE:HG21	1:B:34:LEU:HD22	0.63	1.71	7	2
1:K:34:LEU:HB3	1:L:34:LEU:HD12	0.63	1.71	7	4
1:M:19:PHE:CD2	1:M:35:MET:HE2	0.63	2.28	2	1
1:I:29:GLY:O	1:S:39:VAL:HG21	0.63	1.93	6	1
1:A:27:ASN:ND2	1:A:30:ALA:HB3	0.63	2.09	9	1
1:I:30:ALA:N	1:S:39:VAL:HG11	0.63	2.09	6	1
1:I:22:GLU:O	1:I:24:VAL:HG23	0.62	1.94	4	1
1:I:34:LEU:HD22	1:J:31:ILE:HG21	0.62	1.69	4	1
1:M:31:ILE:CG2	1:M:34:LEU:HD23	0.62	2.25	2	2
1:G:36:VAL:HG11	1:Q:34:LEU:HD21	0.62	1.70	9	3
1:N:27:ASN:OD1	1:O:24:VAL:HG23	0.62	1.95	2	1
1:P:34:LEU:CD2	1:Q:34:LEU:HD13	0.62	2.24	7	1
1:Q:18:VAL:HG12	1:R:18:VAL:HG12	0.62	1.72	6	1
1:I:31:ILE:HB	1:J:31:ILE:HG22	0.62	1.72	5	3
1:R:39:VAL:HG22	1:S:39:VAL:HG12	0.62	1.70	6	1
1:C:34:LEU:HD21	1:M:36:VAL:HG11	0.62	1.72	10	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:H:16:LYS:C	1:H:17:LEU:HD12	0.62	2.20	4	1
1:G:19:PHE:CD2	1:H:35:MET:HE3	0.61	2.30	5	1
1:G:34:LEU:HB3	1:H:34:LEU:HD22	0.61	1.72	5	1
1:L:34:LEU:HD23	1:M:34:LEU:CD1	0.61	2.26	6	2
1:S:31:ILE:HB	1:T:31:ILE:HG22	0.61	1.71	6	4
1:B:17:LEU:CD2	1:C:17:LEU:HD13	0.61	2.23	4	2
1:C:34:LEU:CD1	1:M:36:VAL:HG11	0.61	2.25	5	1
1:A:24:VAL:HG12	1:B:24:VAL:HG23	0.61	1.70	6	1
1:A:24:VAL:HG23	1:B:24:VAL:HG23	0.61	1.71	1	1
1:O:31:ILE:CG2	1:O:34:LEU:HD13	0.61	2.25	7	2
1:J:29:GLY:O	1:T:39:VAL:HG21	0.61	1.95	3	3
1:H:29:GLY:CA	1:R:39:VAL:HG21	0.61	2.25	7	2
1:C:17:LEU:HD11	1:D:17:LEU:HD12	0.61	1.71	7	1
1:G:34:LEU:HD23	1:H:34:LEU:CD2	0.61	2.24	6	1
1:G:34:LEU:HD21	1:Q:36:VAL:CG1	0.61	2.26	1	4
1:A:27:ASN:OD1	1:A:30:ALA:HB3	0.61	1.96	7	3
1:N:31:ILE:CG2	1:N:34:LEU:HD23	0.61	2.26	5	2
1:F:16:LYS:C	1:F:17:LEU:HD12	0.61	2.21	7	1
1:L:32:ILE:CD1	1:M:32:ILE:HD13	0.60	2.26	1	2
1:F:29:GLY:CA	1:P:39:VAL:HG21	0.60	2.25	10	3
1:B:19:PHE:CZ	1:B:21:ALA:HB2	0.60	2.31	9	1
1:J:29:GLY:HA2	1:T:39:VAL:HG11	0.60	1.73	4	2
1:K:34:LEU:HB3	1:L:34:LEU:HD22	0.60	1.72	2	3
1:Q:34:LEU:HB3	1:R:34:LEU:HD22	0.60	1.72	2	2
1:A:34:LEU:HD23	1:B:34:LEU:CD1	0.60	2.26	1	3
1:M:27:ASN:ND2	1:N:24:VAL:HG23	0.60	2.11	4	1
1:B:31:ILE:HG21	1:B:34:LEU:CD1	0.60	2.27	3	1
1:Q:34:LEU:HD23	1:R:34:LEU:CD1	0.60	2.27	4	1
1:B:17:LEU:HD23	1:C:17:LEU:HD22	0.60	1.72	8	1
1:K:24:VAL:HG23	1:L:24:VAL:HG23	0.60	1.73	9	1
1:E:16:LYS:O	1:F:17:LEU:HD12	0.60	1.96	6	1
1:K:35:MET:HB3	1:L:35:MET:HE3	0.60	1.72	5	1
1:C:34:LEU:HD13	1:D:34:LEU:HD13	0.60	1.73	10	1
1:Q:17:LEU:CD2	1:R:17:LEU:HD13	0.60	2.27	1	2
1:Q:16:LYS:C	1:Q:17:LEU:HD12	0.60	2.21	10	2
1:M:24:VAL:HG11	1:M:32:ILE:CD1	0.60	2.27	3	1
1:I:29:GLY:CA	1:S:39:VAL:HG11	0.59	2.26	7	4
1:M:24:VAL:HG11	1:M:32:ILE:HD11	0.59	1.73	3	1
1:C:17:LEU:HD23	1:D:17:LEU:HD13	0.59	1.74	6	1
1:L:17:LEU:HD23	1:L:35:MET:HE3	0.59	1.72	6	1
1:N:39:VAL:CG2	1:O:39:VAL:HG22	0.59	2.27	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:G:16:LYS:C	1:G:17:LEU:HD12	0.59	2.22	10	1
1:C:36:VAL:CG1	1:M:34:LEU:HD21	0.59	2.28	8	3
1:M:34:LEU:HD23	1:N:34:LEU:CD2	0.59	2.27	8	1
1:E:24:VAL:HG12	1:F:24:VAL:HG22	0.59	1.72	9	3
1:Q:34:LEU:HD13	1:R:34:LEU:CD2	0.59	2.27	10	1
1:B:34:LEU:HD11	1:L:36:VAL:HG11	0.59	1.75	8	3
1:A:31:ILE:CG2	1:A:34:LEU:HD23	0.59	2.28	9	2
1:O:19:PHE:CZ	1:O:21:ALA:HB2	0.58	2.33	2	1
1:O:34:LEU:HD13	1:P:34:LEU:CD1	0.58	2.28	9	2
1:L:31:ILE:CG2	1:L:34:LEU:HD13	0.58	2.28	1	3
1:G:24:VAL:HG12	1:G:27:ASN:ND2	0.58	2.12	1	1
1:H:29:GLY:HA2	1:R:39:VAL:HG21	0.58	1.74	4	2
1:K:31:ILE:CG2	1:K:34:LEU:HD23	0.58	2.27	1	6
1:Q:27:ASN:ND2	1:R:24:VAL:HG23	0.58	2.11	2	1
1:D:36:VAL:CG1	1:N:34:LEU:HD21	0.58	2.28	4	1
1:R:24:VAL:HG13	1:S:24:VAL:HG13	0.58	1.74	6	1
1:N:17:LEU:HD22	1:N:35:MET:HE3	0.58	1.74	9	1
1:Q:17:LEU:HG	1:Q:35:MET:HE3	0.58	1.75	4	1
1:N:18:VAL:O	1:N:35:MET:HE1	0.58	1.99	8	1
1:E:17:LEU:HB3	1:E:35:MET:HE1	0.58	1.74	4	1
1:D:34:LEU:HD23	1:E:34:LEU:CD2	0.58	2.28	10	1
1:P:39:VAL:HG22	1:Q:39:VAL:CG1	0.58	2.28	10	1
1:M:39:VAL:CG2	1:N:39:VAL:HG13	0.58	2.28	1	2
1:A:31:ILE:HD12	1:B:31:ILE:CD1	0.58	2.28	2	1
1:A:22:GLU:O	1:A:24:VAL:HG13	0.58	1.99	8	3
1:S:17:LEU:HD23	1:T:17:LEU:HD13	0.58	1.74	9	1
1:O:34:LEU:HD13	1:P:34:LEU:CD2	0.58	2.29	4	1
1:O:34:LEU:HD13	1:P:34:LEU:HD11	0.58	1.76	5	1
1:D:24:VAL:HG13	1:E:24:VAL:CG2	0.58	2.28	6	1
1:I:29:GLY:C	1:S:39:VAL:HG21	0.58	2.24	6	2
1:G:34:LEU:HD23	1:H:34:LEU:HG	0.58	1.74	7	1
1:G:29:GLY:HA2	1:Q:39:VAL:HG11	0.57	1.76	6	6
1:M:21:ALA:HA	1:N:21:ALA:HB3	0.57	1.76	5	3
1:F:34:LEU:HB3	1:G:34:LEU:HD12	0.57	1.76	1	3
1:K:31:ILE:HG23	1:K:34:LEU:HD23	0.57	1.75	3	4
1:M:24:VAL:HG13	1:N:24:VAL:HG23	0.57	1.74	8	4
1:A:31:ILE:HG21	1:A:34:LEU:HD12	0.57	1.75	4	1
1:D:34:LEU:HD13	1:E:34:LEU:CD2	0.57	2.29	1	2
1:D:34:LEU:HD21	1:N:36:VAL:HG11	0.57	1.76	2	3
1:B:31:ILE:CG2	1:B:34:LEU:HD23	0.57	2.29	6	3
1:E:32:ILE:CD1	1:F:32:ILE:HD13	0.57	2.29	4	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:H:24:VAL:HG22	1:H:27:ASN:OD1	0.57	1.98	4	1
1:O:35:MET:CE	1:P:17:LEU:HD22	0.57	2.29	9	1
1:Q:19:PHE:CD1	1:Q:35:MET:HE2	0.57	2.34	10	1
1:C:17:LEU:CD1	1:D:35:MET:HE1	0.57	2.30	5	1
1:E:34:LEU:HD21	1:O:36:VAL:CG1	0.57	2.30	7	1
1:D:34:LEU:HB3	1:E:34:LEU:HD22	0.57	1.76	1	1
1:A:34:LEU:HD21	1:K:36:VAL:CG1	0.57	2.28	5	3
1:N:34:LEU:HB3	1:O:34:LEU:HD12	0.57	1.76	2	2
1:G:29:GLY:CA	1:Q:39:VAL:HG11	0.57	2.28	6	1
1:N:19:PHE:CD2	1:N:35:MET:HE3	0.57	2.34	10	1
1:E:18:VAL:CG1	1:F:18:VAL:HG22	0.57	2.30	1	2
1:B:35:MET:CB	1:C:35:MET:HE2	0.57	2.30	2	2
1:E:29:GLY:HA2	1:O:39:VAL:HG11	0.57	1.77	5	5
1:P:39:VAL:HG22	1:Q:39:VAL:HG12	0.57	1.76	10	1
1:D:34:LEU:HD13	1:E:34:LEU:CD1	0.57	2.30	3	2
1:F:34:LEU:HD13	1:G:34:LEU:CD1	0.57	2.30	6	1
1:D:32:ILE:CD1	1:E:32:ILE:HD13	0.56	2.30	8	2
1:S:17:LEU:HD23	1:S:35:MET:CG	0.56	2.30	2	1
1:C:22:GLU:O	1:C:24:VAL:HG23	0.56	2.00	4	1
1:D:36:VAL:HG11	1:N:34:LEU:HD21	0.56	1.76	4	2
1:C:32:ILE:CD1	1:D:32:ILE:HD13	0.56	2.30	9	2
1:N:34:LEU:HD13	1:O:34:LEU:CD1	0.56	2.30	7	1
1:C:29:GLY:CA	1:M:39:VAL:HG21	0.56	2.30	2	2
1:J:29:GLY:CA	1:T:39:VAL:HG21	0.56	2.29	2	4
1:G:34:LEU:HD11	1:Q:36:VAL:CG1	0.56	2.30	9	1
1:O:19:PHE:CD2	1:O:35:MET:HE3	0.56	2.36	1	1
1:A:20:PHE:O	1:B:21:ALA:HB2	0.56	2.00	4	1
1:Q:31:ILE:CG2	1:Q:34:LEU:HD13	0.56	2.30	8	2
1:B:24:VAL:HG23	1:C:24:VAL:O	0.56	2.00	10	2
1:G:32:ILE:CD1	1:H:32:ILE:HD13	0.56	2.30	7	4
1:N:34:LEU:HD13	1:O:34:LEU:HD11	0.56	1.77	7	1
1:N:15:GLN:CD	1:N:17:LEU:HD13	0.56	2.26	3	1
1:P:19:PHE:CZ	1:P:21:ALA:HB2	0.56	2.35	7	1
1:G:19:PHE:CD2	1:G:35:MET:HE3	0.56	2.34	10	1
1:G:34:LEU:HD13	1:H:34:LEU:CD2	0.56	2.31	10	2
1:R:21:ALA:HA	1:S:21:ALA:HB3	0.56	1.77	4	2
1:H:29:GLY:HA2	1:R:39:VAL:HG11	0.56	1.76	3	3
1:P:31:ILE:HG21	1:P:34:LEU:HD13	0.56	1.76	6	1
1:P:17:LEU:HD23	1:P:35:MET:HG2	0.56	1.76	5	3
1:R:35:MET:HE1	1:S:17:LEU:O	0.56	2.01	8	1
1:D:29:GLY:HA2	1:N:39:VAL:HG11	0.56	1.78	2	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:R:39:VAL:O	1:S:39:VAL:HG13	0.56	2.01	10	2
1:F:29:GLY:HA2	1:P:39:VAL:HG11	0.56	1.78	5	4
1:J:22:GLU:O	1:J:24:VAL:HG23	0.56	2.00	4	1
1:M:34:LEU:HD13	1:N:34:LEU:CD1	0.56	2.30	4	1
1:I:34:LEU:HD11	1:S:36:VAL:CG1	0.56	2.26	10	1
1:L:24:VAL:HG13	1:M:24:VAL:O	0.56	2.00	6	1
1:N:39:VAL:O	1:O:39:VAL:HG13	0.56	2.01	7	2
1:C:29:GLY:HA2	1:M:39:VAL:HG21	0.55	1.78	2	3
1:E:24:VAL:HG23	1:F:24:VAL:O	0.55	2.01	4	1
1:E:24:VAL:HG12	1:E:27:ASN:ND2	0.55	2.16	3	1
1:P:31:ILE:CG2	1:P:34:LEU:HD13	0.55	2.32	5	1
1:Q:31:ILE:HD12	1:R:31:ILE:HG12	0.55	1.79	5	1
1:D:16:LYS:C	1:D:17:LEU:HD12	0.55	2.25	10	1
1:I:31:ILE:HB	1:J:31:ILE:HG23	0.55	1.78	10	1
1:L:34:LEU:HD22	1:M:34:LEU:HG	0.55	1.78	3	1
1:L:24:VAL:HG12	1:M:24:VAL:HG22	0.55	1.77	4	2
1:E:19:PHE:CD1	1:F:35:MET:HE3	0.55	2.36	9	2
1:Q:24:VAL:CG1	1:R:24:VAL:HG23	0.55	2.32	10	1
1:C:17:LEU:HD23	1:D:35:MET:CE	0.55	2.32	1	1
1:L:31:ILE:HG21	1:L:34:LEU:HD13	0.55	1.77	3	2
1:N:17:LEU:CD2	1:O:17:LEU:HD13	0.55	2.31	9	1
1:L:39:VAL:O	1:M:39:VAL:HG13	0.55	2.02	4	1
1:O:34:LEU:HD13	1:P:34:LEU:HD21	0.55	1.78	4	1
1:O:31:ILE:HG21	1:O:34:LEU:HD13	0.55	1.78	7	1
1:I:29:GLY:CA	1:S:39:VAL:HG21	0.55	2.32	9	1
1:O:39:VAL:HG22	1:P:39:VAL:CG1	0.55	2.32	10	2
1:N:39:VAL:HG22	1:O:39:VAL:HG12	0.55	1.78	4	1
1:A:24:VAL:HG12	1:B:24:VAL:CG2	0.55	2.32	8	2
1:J:31:ILE:HD11	1:T:38:GLY:HA2	0.55	1.78	8	1
1:I:34:LEU:HB3	1:J:34:LEU:HD22	0.55	1.78	10	1
1:C:35:MET:HB2	1:D:35:MET:HE2	0.54	1.79	1	1
1:N:32:ILE:CD1	1:O:32:ILE:HD13	0.54	2.33	8	2
1:K:27:ASN:OD1	1:K:30:ALA:HB3	0.54	2.03	3	2
1:E:34:LEU:HD21	1:O:36:VAL:HG11	0.54	1.80	7	2
1:E:21:ALA:HA	1:F:21:ALA:HB3	0.54	1.78	6	1
1:A:29:GLY:O	1:L:39:VAL:HG11	0.54	2.02	7	3
1:C:18:VAL:HB	1:D:18:VAL:HG12	0.54	1.80	5	1
1:A:24:VAL:HG23	1:B:24:VAL:O	0.54	2.02	10	2
1:C:34:LEU:HD13	1:D:34:LEU:CD2	0.54	2.33	4	1
1:G:31:ILE:HG21	1:G:34:LEU:HD12	0.54	1.79	9	4
1:I:31:ILE:HD11	1:S:38:GLY:CA	0.54	2.32	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:24:VAL:HG22	1:B:27:ASN:ND2	0.54	2.17	10	1
1:L:31:ILE:HG21	1:L:34:LEU:CD1	0.54	2.29	10	1
1:B:36:VAL:CG1	1:L:34:LEU:HD21	0.54	2.33	7	3
1:I:29:GLY:HA2	1:S:39:VAL:HG11	0.54	1.78	8	5
1:M:34:LEU:HB3	1:N:34:LEU:HD22	0.54	1.80	2	2
1:G:18:VAL:CG1	1:H:18:VAL:HG22	0.54	2.33	3	2
1:M:17:LEU:HD23	1:N:17:LEU:HD22	0.54	1.79	5	1
1:F:17:LEU:HD23	1:G:35:MET:HE1	0.54	1.80	7	1
1:A:32:ILE:CD1	1:B:32:ILE:HD13	0.54	2.32	10	3
1:A:24:VAL:HG11	1:A:32:ILE:HG21	0.54	1.79	9	1
1:F:17:LEU:HG	1:G:17:LEU:HD13	0.54	1.79	8	2
1:A:34:LEU:CB	1:B:34:LEU:HD22	0.54	2.33	9	1
1:M:17:LEU:HD23	1:M:35:MET:HG2	0.54	1.79	9	1
1:F:18:VAL:CG2	1:G:18:VAL:HG22	0.54	2.33	7	1
1:B:34:LEU:HD21	1:L:36:VAL:CG1	0.53	2.33	1	1
1:D:17:LEU:CD2	1:E:17:LEU:HD13	0.53	2.33	2	1
1:L:39:VAL:CG2	1:M:39:VAL:HG22	0.53	2.33	3	4
1:P:16:LYS:C	1:P:17:LEU:HD12	0.53	2.28	4	1
1:O:17:LEU:HB3	1:O:35:MET:HE3	0.53	1.80	6	1
1:C:17:LEU:CD1	1:D:17:LEU:HD12	0.53	2.33	7	1
1:G:24:VAL:HG22	1:G:27:ASN:OD1	0.53	2.03	9	1
1:B:18:VAL:CG2	1:C:18:VAL:HG22	0.53	2.33	4	1
1:D:17:LEU:HD22	1:D:35:MET:CE	0.53	2.33	6	1
1:M:39:VAL:HG22	1:N:39:VAL:HG22	0.53	1.80	6	1
1:Q:18:VAL:CG1	1:R:18:VAL:HG12	0.53	2.33	6	1
1:R:19:PHE:CD2	1:R:35:MET:HE3	0.53	2.38	10	1
1:S:17:LEU:HB3	1:S:35:MET:HE3	0.53	1.79	2	1
1:E:16:LYS:C	1:E:17:LEU:HD12	0.53	2.28	6	2
1:S:36:VAL:CG1	1:T:36:VAL:HG22	0.53	2.34	8	1
1:H:19:PHE:HB2	1:H:35:MET:HE2	0.53	1.80	5	1
1:N:17:LEU:HD22	1:O:17:LEU:HD13	0.53	1.80	2	1
1:H:36:VAL:CG1	1:R:34:LEU:HD11	0.53	2.33	9	2
1:I:29:GLY:HA3	1:S:39:VAL:HG11	0.53	1.79	5	3
1:S:17:LEU:HD21	1:S:35:MET:SD	0.53	2.44	4	1
1:P:39:VAL:HG22	1:Q:39:VAL:HG22	0.53	1.78	8	1
1:F:36:VAL:HG21	1:P:34:LEU:HD21	0.53	1.80	9	1
1:R:18:VAL:CG1	1:S:18:VAL:HG22	0.53	2.33	2	1
1:R:39:VAL:HG23	1:S:39:VAL:HG13	0.53	1.81	7	1
1:C:17:LEU:CD2	1:D:17:LEU:HD11	0.53	2.28	3	1
1:H:22:GLU:CG	1:I:21:ALA:HB1	0.53	2.34	4	1
1:B:35:MET:HB2	1:C:35:MET:HE2	0.53	1.80	3	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:31:ILE:HD12	1:C:31:ILE:HG12	0.53	1.80	4	2
1:L:24:VAL:CG1	1:M:24:VAL:HG22	0.53	2.34	10	2
1:E:36:VAL:HG11	1:O:34:LEU:HD21	0.52	1.79	9	2
1:R:35:MET:HE1	1:S:17:LEU:HB2	0.52	1.79	7	1
1:G:18:VAL:CG2	1:H:18:VAL:HG22	0.52	2.34	9	2
1:N:17:LEU:HD23	1:N:35:MET:HG2	0.52	1.82	5	1
1:G:36:VAL:CG1	1:Q:34:LEU:HD11	0.52	2.35	1	1
1:H:31:ILE:HD11	1:R:38:GLY:CA	0.52	2.34	8	2
1:C:27:ASN:OD1	1:C:30:ALA:HB3	0.52	2.04	5	3
1:L:31:ILE:CG2	1:L:34:LEU:HD23	0.52	2.34	5	2
1:H:36:VAL:CG1	1:R:34:LEU:HD21	0.52	2.34	4	3
1:N:17:LEU:HD13	1:N:35:MET:SD	0.52	2.44	4	1
1:E:18:VAL:HG13	1:F:18:VAL:HG13	0.52	1.81	2	1
1:H:29:GLY:C	1:R:39:VAL:HG21	0.52	2.29	6	1
1:M:27:ASN:OD1	1:M:30:ALA:HB3	0.52	2.05	6	1
1:E:34:LEU:HB3	1:F:34:LEU:HD22	0.52	1.81	1	1
1:G:22:GLU:O	1:G:24:VAL:HG13	0.52	2.05	4	1
1:A:31:ILE:CD1	1:L:39:VAL:HG13	0.52	2.35	5	1
1:N:34:LEU:HB3	1:O:34:LEU:HD22	0.52	1.81	8	1
1:B:17:LEU:CD2	1:C:17:LEU:HD11	0.52	2.30	9	2
1:H:24:VAL:HG12	1:I:24:VAL:HG22	0.52	1.82	3	2
1:S:21:ALA:HA	1:T:21:ALA:HB3	0.52	1.80	3	2
1:M:31:ILE:HG21	1:M:34:LEU:HD22	0.52	1.80	8	1
1:M:24:VAL:HG13	1:N:24:VAL:O	0.52	2.05	3	1
1:B:34:LEU:HD23	1:C:34:LEU:CD1	0.52	2.31	7	1
1:I:34:LEU:HD21	1:S:36:VAL:CG1	0.52	2.34	4	1
1:D:18:VAL:CG2	1:E:18:VAL:HG22	0.52	2.35	9	1
1:P:34:LEU:HD13	1:Q:34:LEU:CD2	0.51	2.35	2	1
1:L:31:ILE:HD12	1:M:31:ILE:HG23	0.51	1.82	10	2
1:B:24:VAL:HG11	1:B:32:ILE:HG12	0.51	1.81	4	1
1:P:21:ALA:HA	1:Q:21:ALA:HB3	0.51	1.80	1	2
1:P:32:ILE:CD1	1:Q:32:ILE:HD13	0.51	2.35	6	1
1:H:36:VAL:HG11	1:R:34:LEU:CD2	0.51	2.31	3	2
1:D:18:VAL:CG1	1:E:18:VAL:HG22	0.51	2.36	4	1
1:K:24:VAL:CG1	1:L:24:VAL:HG22	0.51	2.36	7	2
1:M:39:VAL:HB	1:N:39:VAL:HG23	0.51	1.81	10	1
1:K:31:ILE:HG12	1:K:34:LEU:HD23	0.51	1.82	5	1
1:Q:17:LEU:HG	1:R:17:LEU:HD13	0.51	1.81	9	1
1:Q:31:ILE:HD12	1:R:31:ILE:CD1	0.51	2.36	10	1
1:K:24:VAL:HG21	1:K:32:ILE:HG13	0.51	1.82	3	1
1:R:27:ASN:OD1	1:R:30:ALA:HB2	0.51	2.05	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:I:31:ILE:HD11	1:S:38:GLY:HA2	0.51	1.82	8	2
1:E:34:LEU:HD13	1:F:34:LEU:CD2	0.51	2.35	5	1
1:P:24:VAL:HG23	1:Q:24:VAL:O	0.51	2.06	7	1
1:M:32:ILE:CD1	1:N:32:ILE:HD13	0.51	2.36	10	1
1:L:34:LEU:HB3	1:M:34:LEU:HD22	0.51	1.82	2	1
1:E:17:LEU:HD23	1:E:35:MET:SD	0.51	2.45	9	2
1:C:34:LEU:HD13	1:D:34:LEU:CD1	0.51	2.36	10	1
1:H:34:LEU:HD21	1:R:36:VAL:CG1	0.51	2.27	3	1
1:E:24:VAL:CG1	1:F:24:VAL:HG22	0.51	2.36	7	2
1:A:24:VAL:HG23	1:B:24:VAL:CG2	0.51	2.36	1	1
1:D:24:VAL:HG22	1:D:27:ASN:ND2	0.51	2.21	2	1
1:E:18:VAL:CG1	1:F:18:VAL:HG13	0.51	2.35	2	1
1:E:24:VAL:CG2	1:F:24:VAL:HG23	0.51	2.36	2	1
1:H:17:LEU:HD23	1:H:35:MET:HE3	0.51	1.81	2	1
1:D:18:VAL:HG13	1:E:18:VAL:HG13	0.51	1.82	4	1
1:N:31:ILE:HG21	1:N:34:LEU:HD23	0.51	1.83	5	1
1:P:27:ASN:OD1	1:P:30:ALA:HB2	0.50	2.06	3	2
1:F:17:LEU:HD23	1:F:35:MET:SD	0.50	2.46	5	3
1:G:16:LYS:O	1:H:17:LEU:HD12	0.50	2.06	6	1
1:E:24:VAL:HG22	1:E:27:ASN:OD1	0.50	2.04	4	1
1:O:34:LEU:HB3	1:P:34:LEU:HD12	0.50	1.82	5	2
1:D:24:VAL:HG21	1:D:32:ILE:HG13	0.50	1.82	6	1
1:K:32:ILE:CD1	1:L:32:ILE:HD13	0.50	2.33	10	2
1:Q:19:PHE:CD1	1:Q:35:MET:HE3	0.50	2.41	8	1
1:Q:17:LEU:HD23	1:Q:35:MET:HG2	0.50	1.84	10	1
1:H:36:VAL:CG1	1:I:36:VAL:HG22	0.50	2.36	1	1
1:K:39:VAL:HG23	1:L:39:VAL:HG13	0.50	1.83	2	1
1:H:27:ASN:OD1	1:H:30:ALA:HB3	0.50	2.06	5	1
1:T:17:LEU:HD23	1:T:35:MET:HE3	0.50	1.83	8	1
1:S:39:VAL:CG2	1:T:39:VAL:HG13	0.50	2.36	1	1
1:A:24:VAL:HG21	1:A:32:ILE:HG13	0.50	1.84	4	1
1:D:34:LEU:HD23	1:E:34:LEU:HD23	0.50	1.81	10	1
1:F:18:VAL:HG13	1:G:18:VAL:HG23	0.50	1.81	3	1
1:C:17:LEU:HD12	1:D:35:MET:HE1	0.50	1.83	5	1
1:R:35:MET:HE3	1:S:17:LEU:HD13	0.50	1.84	1	1
1:I:36:VAL:CG1	1:S:34:LEU:HD11	0.50	2.36	9	2
1:D:19:PHE:HB2	1:D:35:MET:HE2	0.50	1.82	9	1
1:P:17:LEU:CD1	1:Q:17:LEU:HD13	0.50	2.37	2	1
1:K:20:PHE:O	1:L:21:ALA:HB3	0.50	2.07	5	1
1:I:29:GLY:C	1:S:39:VAL:HG11	0.50	2.31	6	1
1:C:34:LEU:HD22	1:D:34:LEU:CD1	0.50	2.36	10	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:O:24:VAL:CG2	1:P:24:VAL:HG23	0.50	2.35	10	1
1:A:24:VAL:HG21	1:A:32:ILE:CD1	0.49	2.37	1	2
1:E:27:ASN:OD1	1:E:30:ALA:HB3	0.49	2.07	3	1
1:L:39:VAL:HG22	1:M:39:VAL:HG22	0.49	1.83	9	2
1:F:29:GLY:CA	1:P:39:VAL:HG11	0.49	2.37	7	1
1:O:18:VAL:HG13	1:P:18:VAL:HA	0.49	1.82	8	1
1:Q:39:VAL:H	1:R:39:VAL:HG12	0.49	1.67	1	1
1:A:34:LEU:CD1	1:K:36:VAL:HG11	0.49	2.27	2	1
1:C:29:GLY:HA2	1:M:39:VAL:HG11	0.49	1.84	9	3
1:I:32:ILE:CG1	1:J:32:ILE:HD13	0.49	2.37	6	1
1:M:39:VAL:CG2	1:N:39:VAL:HG22	0.49	2.36	6	1
1:H:29:GLY:HA3	1:R:39:VAL:HG21	0.49	1.84	7	1
1:P:24:VAL:HG13	1:Q:24:VAL:O	0.49	2.06	1	1
1:J:29:GLY:C	1:T:39:VAL:HG11	0.49	2.32	6	1
1:O:17:LEU:HD22	1:O:35:MET:HB3	0.49	1.83	7	1
1:R:24:VAL:HG12	1:S:24:VAL:H	0.49	1.68	9	1
1:C:34:LEU:HD23	1:D:34:LEU:HG	0.49	1.84	2	2
1:B:24:VAL:HG22	1:B:27:ASN:OD1	0.49	2.07	5	1
1:D:35:MET:HG3	1:E:35:MET:HE2	0.49	1.83	5	1
1:G:27:ASN:OD1	1:G:30:ALA:HB3	0.49	2.08	1	2
1:Q:39:VAL:CG2	1:R:39:VAL:HG13	0.49	2.37	10	1
1:K:39:VAL:O	1:L:39:VAL:HG13	0.49	2.07	4	1
1:D:19:PHE:HB2	1:D:35:MET:HE3	0.49	1.84	3	1
1:H:24:VAL:CG1	1:I:24:VAL:HG22	0.49	2.37	1	2
1:P:34:LEU:HB3	1:Q:34:LEU:HD22	0.49	1.83	2	1
1:A:35:MET:HB3	1:B:35:MET:HE3	0.49	1.84	3	2
1:H:31:ILE:HD11	1:R:38:GLY:HA3	0.49	1.84	8	1
1:B:31:ILE:HG23	1:B:34:LEU:HD23	0.49	1.85	9	1
1:G:35:MET:HE2	1:H:35:MET:HE3	0.49	1.83	10	1
1:R:39:VAL:HB	1:S:39:VAL:HG13	0.48	1.85	2	1
1:H:29:GLY:CA	1:R:39:VAL:HG11	0.48	2.38	4	1
1:H:34:LEU:HD11	1:R:36:VAL:CG1	0.48	2.38	4	1
1:H:31:ILE:HG21	1:H:34:LEU:CD1	0.48	2.38	8	1
1:P:39:VAL:HB	1:Q:39:VAL:HG13	0.48	1.83	9	1
1:S:18:VAL:HB	1:T:18:VAL:HG12	0.48	1.84	7	2
1:Q:17:LEU:HD23	1:Q:35:MET:SD	0.48	2.48	2	1
1:D:24:VAL:HG23	1:E:24:VAL:O	0.48	2.09	2	1
1:B:36:VAL:HG21	1:L:36:VAL:CG2	0.48	2.39	9	1
1:I:34:LEU:HD13	1:J:34:LEU:CD2	0.48	2.38	10	1
1:F:31:ILE:HG21	1:F:34:LEU:HD13	0.48	1.84	2	1
1:L:39:VAL:CG2	1:M:39:VAL:HG13	0.48	2.36	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:M:34:LEU:HD13	1:N:34:LEU:HD21	0.48	1.84	3	1
1:F:36:VAL:CG1	1:P:34:LEU:HD21	0.48	2.22	6	1
1:B:24:VAL:HG21	1:B:32:ILE:HG13	0.48	1.85	7	1
1:D:18:VAL:HG23	1:E:18:VAL:HG13	0.48	1.84	9	1
1:M:39:VAL:HB	1:N:39:VAL:HG13	0.48	1.84	3	1
1:G:35:MET:HB2	1:H:35:MET:HE2	0.48	1.86	9	1
1:G:29:GLY:HA2	1:Q:39:VAL:HG21	0.48	1.86	10	1
1:C:34:LEU:HD13	1:D:34:LEU:HG	0.48	1.85	6	1
1:K:24:VAL:HG21	1:K:32:ILE:HG12	0.48	1.86	6	1
1:C:31:ILE:CG2	1:C:34:LEU:HD23	0.48	2.39	9	1
1:C:29:GLY:C	1:N:39:VAL:HG21	0.48	2.34	10	1
1:H:35:MET:HB2	1:I:35:MET:HE2	0.48	1.86	3	1
1:Q:27:ASN:OD1	1:Q:30:ALA:HB2	0.48	2.09	7	2
1:A:24:VAL:HG22	1:A:27:ASN:ND2	0.48	2.24	10	1
1:Q:17:LEU:CG	1:Q:35:MET:HE3	0.47	2.39	4	1
1:D:17:LEU:HD22	1:D:35:MET:SD	0.47	2.49	5	1
1:O:24:VAL:HG22	1:P:24:VAL:HG12	0.47	1.86	6	1
1:I:24:VAL:HG23	1:J:24:VAL:HG23	0.47	1.86	8	1
1:D:17:LEU:CD1	1:D:35:MET:HE3	0.47	2.39	1	1
1:B:34:LEU:HB3	1:C:34:LEU:HD22	0.47	1.85	9	1
1:A:29:GLY:O	1:L:39:VAL:HG21	0.47	2.09	10	1
1:E:24:VAL:HG22	1:F:24:VAL:HG22	0.47	1.86	1	1
1:D:24:VAL:HG22	1:E:24:VAL:HG22	0.47	1.86	6	1
1:A:31:ILE:HD12	1:B:31:ILE:HG12	0.47	1.86	4	2
1:D:17:LEU:HD12	1:D:35:MET:HE3	0.47	1.86	1	1
1:B:18:VAL:HG22	1:C:18:VAL:HG22	0.47	1.87	4	1
1:C:35:MET:HG3	1:D:35:MET:HE2	0.47	1.86	6	1
1:I:24:VAL:HG12	1:J:24:VAL:HG22	0.47	1.86	9	1
1:K:20:PHE:O	1:L:21:ALA:HB2	0.47	2.10	1	1
1:A:24:VAL:HG22	1:A:27:ASN:OD1	0.47	2.09	3	1
1:I:34:LEU:CD2	1:S:36:VAL:HG11	0.47	2.39	4	1
1:P:34:LEU:HD23	1:Q:34:LEU:HG	0.47	1.85	9	1
1:J:34:LEU:HD11	1:T:36:VAL:HG21	0.47	1.86	4	1
1:D:18:VAL:CG1	1:E:18:VAL:HG13	0.47	2.39	4	1
1:R:17:LEU:CB	1:R:35:MET:HE1	0.47	2.40	6	1
1:G:35:MET:HE2	1:H:35:MET:CE	0.47	2.40	10	1
1:R:35:MET:CE	1:S:17:LEU:HD13	0.47	2.39	1	1
1:O:35:MET:HE1	1:P:35:MET:HE2	0.47	1.87	2	1
1:I:36:VAL:CG1	1:S:34:LEU:HD21	0.47	2.36	9	2
1:L:30:ALA:HB2	1:M:27:ASN:ND2	0.47	2.25	9	1
1:A:27:ASN:HD22	1:A:30:ALA:HB3	0.46	1.70	6	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:17:LEU:HD13	1:F:35:MET:SD	0.46	2.50	1	1
1:O:17:LEU:HD23	1:P:17:LEU:CD1	0.46	2.26	6	1
1:F:36:VAL:CG1	1:P:34:LEU:HD11	0.46	2.40	10	1
1:G:36:VAL:HG11	1:Q:34:LEU:HD11	0.46	1.86	1	1
1:P:24:VAL:CG1	1:Q:24:VAL:HG23	0.46	2.38	4	1
1:C:16:LYS:O	1:C:17:LEU:HD12	0.46	2.09	7	1
1:N:35:MET:HE2	1:O:35:MET:CE	0.46	2.40	4	1
1:M:34:LEU:CD2	1:N:34:LEU:HD13	0.46	2.33	9	1
1:D:31:ILE:CG2	1:D:34:LEU:HD12	0.46	2.35	1	2
1:K:27:ASN:HD22	1:K:30:ALA:HB3	0.46	1.71	1	1
1:K:24:VAL:HG11	1:K:32:ILE:HG13	0.46	1.87	4	1
1:D:18:VAL:HG12	1:E:18:VAL:HG22	0.46	1.87	4	1
1:H:17:LEU:HD23	1:H:35:MET:SD	0.46	2.50	4	1
1:A:24:VAL:HG12	1:B:24:VAL:HG12	0.46	1.87	9	1
1:S:35:MET:HE3	1:T:35:MET:HB3	0.46	1.87	1	1
1:A:24:VAL:HG11	1:A:32:ILE:CG2	0.46	2.41	9	1
1:B:17:LEU:HD23	1:C:17:LEU:CD1	0.46	2.36	9	1
1:D:24:VAL:CG1	1:E:24:VAL:HG22	0.46	2.41	9	1
1:G:34:LEU:HD23	1:H:34:LEU:CD1	0.46	2.34	3	1
1:F:17:LEU:HD23	1:G:35:MET:CE	0.46	2.40	7	1
1:M:35:MET:CE	1:N:35:MET:HE2	0.46	2.41	8	1
1:P:39:VAL:CG2	1:Q:39:VAL:HG22	0.46	2.40	8	1
1:S:36:VAL:HG13	1:T:36:VAL:HG13	0.46	1.88	8	1
1:H:36:VAL:HG13	1:I:36:VAL:HG13	0.46	1.88	1	1
1:T:39:VAL:O	1:T:40:VAL:C	0.46	2.59	9	2
1:Q:39:VAL:HB	1:R:39:VAL:HG13	0.46	1.87	2	1
1:Q:34:LEU:HD22	1:R:34:LEU:HG	0.46	1.86	6	1
1:S:18:VAL:CG1	1:T:18:VAL:HG22	0.46	2.40	6	1
1:M:35:MET:HE1	1:N:35:MET:HE2	0.46	1.86	8	1
1:D:18:VAL:HG23	1:E:18:VAL:HG23	0.46	1.88	2	1
1:B:29:GLY:C	1:L:39:VAL:HG21	0.46	2.36	8	1
1:C:34:LEU:HD22	1:D:34:LEU:HD12	0.46	1.88	10	1
1:F:36:VAL:CG2	1:P:36:VAL:HG21	0.46	2.40	2	1
1:Q:27:ASN:HD21	1:R:24:VAL:HG12	0.46	1.70	4	1
1:N:18:VAL:HB	1:O:18:VAL:HG23	0.46	1.88	8	1
1:Q:24:VAL:CG1	1:R:24:VAL:HG22	0.45	2.40	2	2
1:R:36:VAL:HG13	1:S:36:VAL:HG23	0.45	1.89	8	1
1:D:34:LEU:HB3	1:E:34:LEU:HD12	0.45	1.89	6	1
1:T:22:GLU:O	1:T:24:VAL:HG23	0.45	2.11	9	1
1:E:36:VAL:CG2	1:F:36:VAL:HG22	0.45	2.41	7	1
1:M:35:MET:SD	1:N:17:LEU:HD12	0.45	2.51	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:17:LEU:HD22	1:C:35:MET:HE3	0.45	1.89	3	1
1:A:24:VAL:HG12	1:B:24:VAL:CG1	0.45	2.42	9	2
1:G:34:LEU:HD11	1:Q:36:VAL:HG11	0.45	1.88	9	1
1:B:17:LEU:HD23	1:C:35:MET:CE	0.45	2.42	3	1
1:L:24:VAL:HG11	1:L:32:ILE:HG13	0.45	1.88	6	1
1:B:17:LEU:HD22	1:B:35:MET:SD	0.45	2.52	9	1
1:G:17:LEU:HD13	1:G:35:MET:HG2	0.45	1.88	2	1
1:G:24:VAL:CG1	1:H:24:VAL:HG23	0.45	2.34	2	1
1:N:39:VAL:CG1	1:O:39:VAL:HG12	0.45	2.42	10	1
1:F:21:ALA:HA	1:G:21:ALA:HB3	0.45	1.88	2	2
1:B:34:LEU:HB3	1:C:34:LEU:HD12	0.45	1.88	2	1
1:E:24:VAL:HG13	1:F:24:VAL:O	0.45	2.11	3	1
1:S:24:VAL:CG1	1:T:24:VAL:HG23	0.45	2.34	3	1
1:C:24:VAL:HG22	1:D:24:VAL:HG22	0.45	1.89	4	1
1:M:24:VAL:CG2	1:N:24:VAL:HG23	0.45	2.42	6	1
1:Q:35:MET:HE2	1:R:35:MET:SD	0.45	2.51	7	1
1:B:24:VAL:HG23	1:C:24:VAL:HG13	0.45	1.88	9	1
1:N:39:VAL:CG2	1:O:39:VAL:HG12	0.44	2.42	4	1
1:A:31:ILE:HD11	1:L:39:VAL:HG13	0.44	1.88	5	1
1:C:16:LYS:C	1:C:17:LEU:HD22	0.44	2.36	5	1
1:Q:24:VAL:HG13	1:R:24:VAL:O	0.44	2.11	5	1
1:P:24:VAL:HG22	1:P:27:ASN:OD1	0.44	2.12	7	2
1:A:36:VAL:HG13	1:K:34:LEU:HD11	0.44	1.88	3	1
1:O:18:VAL:CG1	1:P:18:VAL:HG22	0.44	2.42	8	1
1:H:16:LYS:O	1:H:17:LEU:HD12	0.44	2.13	1	1
1:F:34:LEU:HD22	1:G:34:LEU:CD1	0.44	2.43	3	1
1:C:24:VAL:HG23	1:D:24:VAL:O	0.44	2.13	5	1
1:N:39:VAL:CG1	1:O:39:VAL:HG22	0.44	2.42	7	1
1:E:17:LEU:HB3	1:E:35:MET:HE2	0.44	1.89	8	1
1:I:29:GLY:O	1:T:39:VAL:HG11	0.44	2.12	1	1
1:R:39:VAL:H	1:S:39:VAL:HG12	0.44	1.73	1	1
1:Q:39:VAL:HB	1:R:39:VAL:HG23	0.44	1.89	4	1
1:K:39:VAL:HB	1:L:39:VAL:HG13	0.44	1.90	7	1
1:E:17:LEU:HD23	1:F:35:MET:HE1	0.44	1.88	2	1
1:Q:18:VAL:CG1	1:R:18:VAL:HG22	0.44	2.43	1	1
1:Q:35:MET:HE1	1:R:17:LEU:HB2	0.44	1.88	1	1
1:K:31:ILE:HD12	1:L:31:ILE:HG23	0.44	1.90	4	1
1:R:24:VAL:HG13	1:S:24:VAL:O	0.44	2.13	4	1
1:Q:24:VAL:HG12	1:R:24:VAL:HG22	0.44	1.90	2	2
1:E:34:LEU:HD13	1:F:34:LEU:HD23	0.44	1.90	5	1
1:K:30:ALA:HB2	1:L:27:ASN:O	0.44	2.12	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:LEU:HD11	1:K:36:VAL:CG1	0.44	2.42	6	1
1:S:18:VAL:HG13	1:T:18:VAL:HG13	0.44	1.89	6	1
1:O:17:LEU:HD23	1:P:17:LEU:HD12	0.44	1.89	7	1
1:C:18:VAL:CG1	1:D:18:VAL:HG22	0.44	2.42	8	1
1:K:17:LEU:HG	1:L:17:LEU:HD12	0.44	1.90	8	1
1:G:18:VAL:HG23	1:H:18:VAL:HG13	0.44	1.88	9	1
1:N:19:PHE:CE2	1:N:35:MET:HE3	0.44	2.47	10	1
1:S:17:LEU:HD23	1:S:35:MET:HB3	0.44	1.88	10	1
1:A:32:ILE:HG13	1:B:32:ILE:HD13	0.43	1.90	3	1
1:C:24:VAL:HG22	1:C:27:ASN:ND2	0.43	2.28	5	1
1:O:27:ASN:OD1	1:O:30:ALA:HB3	0.43	2.13	8	1
1:I:29:GLY:HA3	1:S:39:VAL:HG21	0.43	1.90	9	1
1:I:36:VAL:HG11	1:S:34:LEU:CD2	0.43	2.33	9	1
1:S:32:ILE:HG23	1:T:32:ILE:HB	0.43	1.90	10	2
1:R:35:MET:HE2	1:S:17:LEU:HB3	0.43	1.89	10	1
1:N:19:PHE:CZ	1:N:21:ALA:HB2	0.43	2.48	6	1
1:K:34:LEU:CB	1:L:34:LEU:HD12	0.43	2.43	7	1
1:G:36:VAL:CG1	1:Q:34:LEU:HD21	0.43	2.43	4	1
1:J:29:GLY:CA	1:T:39:VAL:HG11	0.43	2.42	4	1
1:F:17:LEU:HD22	1:F:35:MET:SD	0.43	2.53	6	1
1:N:17:LEU:HD23	1:N:35:MET:HB3	0.43	1.90	7	1
1:C:16:LYS:O	1:D:17:LEU:HD12	0.43	2.14	9	1
1:E:34:LEU:HD22	1:F:34:LEU:HD22	0.43	1.90	5	1
1:N:24:VAL:HG12	1:O:24:VAL:HG12	0.43	1.90	10	1
1:C:24:VAL:HG12	1:D:24:VAL:HG22	0.43	1.89	8	1
1:O:19:PHE:CE2	1:O:35:MET:HE3	0.43	2.49	1	1
1:P:35:MET:HE3	1:Q:17:LEU:HB2	0.43	1.91	5	1
1:G:19:PHE:HB2	1:G:35:MET:HE2	0.43	1.91	9	1
1:A:29:GLY:HA2	1:K:39:VAL:HG21	0.43	1.91	1	2
1:L:24:VAL:HG12	1:M:24:VAL:H	0.43	1.74	3	1
1:O:19:PHE:CD2	1:O:35:MET:HE2	0.43	2.48	4	1
1:A:29:GLY:C	1:L:39:VAL:HG11	0.43	2.38	7	1
1:O:34:LEU:HD23	1:P:34:LEU:CD1	0.43	2.36	7	1
1:B:22:GLU:O	1:B:24:VAL:HG13	0.43	2.14	8	1
1:B:24:VAL:HG21	1:B:32:ILE:HD13	0.43	1.91	8	1
1:G:34:LEU:HD21	1:Q:36:VAL:HG21	0.43	1.91	8	1
1:S:39:VAL:H	1:T:39:VAL:HG12	0.43	1.73	10	1
1:B:24:VAL:HG12	1:C:24:VAL:HG22	0.42	1.90	8	2
1:C:17:LEU:CD1	1:C:35:MET:HE3	0.42	2.39	2	1
1:F:17:LEU:HB3	1:F:35:MET:HE1	0.42	1.90	4	1
1:S:24:VAL:HG12	1:T:24:VAL:H	0.42	1.74	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:H:36:VAL:HG21	1:R:34:LEU:CD2	0.42	2.44	7	1
1:S:35:MET:HE2	1:T:35:MET:CB	0.42	2.44	10	1
1:B:22:GLU:HB2	1:C:22:GLU:C	0.42	2.38	4	1
1:E:34:LEU:HD22	1:F:34:LEU:CD2	0.42	2.44	5	1
1:F:35:MET:HB2	1:G:35:MET:HE2	0.42	1.90	5	1
1:N:24:VAL:CG1	1:O:24:VAL:HG22	0.42	2.44	7	1
1:F:24:VAL:HG12	1:G:24:VAL:CG1	0.42	2.44	9	1
1:F:36:VAL:HG13	1:G:36:VAL:HG13	0.42	1.89	9	1
1:B:36:VAL:CG2	1:L:36:VAL:HG21	0.42	2.44	3	1
1:R:35:MET:HE3	1:S:35:MET:HG2	0.42	1.90	3	1
1:A:36:VAL:HG13	1:K:34:LEU:CD1	0.42	2.44	5	1
1:K:31:ILE:CG1	1:K:34:LEU:HD23	0.42	2.44	5	1
1:H:19:PHE:CD2	1:H:35:MET:HE2	0.42	2.50	10	1
1:I:34:LEU:CD1	1:S:36:VAL:HG11	0.42	2.35	10	1
1:P:27:ASN:CG	1:P:30:ALA:HB2	0.42	2.39	3	1
1:I:34:LEU:HD22	1:J:31:ILE:CG2	0.42	2.42	4	1
1:O:39:VAL:CG2	1:P:39:VAL:HG13	0.42	2.42	4	1
1:H:21:ALA:HA	1:I:21:ALA:HB3	0.42	1.91	5	2
1:L:27:ASN:OD1	1:L:30:ALA:HB3	0.42	2.14	6	1
1:D:34:LEU:HD21	1:N:36:VAL:CG1	0.42	2.44	10	1
1:N:39:VAL:HB	1:O:39:VAL:HG13	0.42	1.92	2	1
1:B:22:GLU:HB3	1:C:21:ALA:HB1	0.42	1.91	4	1
1:K:27:ASN:HB2	1:K:30:ALA:HB3	0.42	1.90	4	2
1:I:32:ILE:HG12	1:J:32:ILE:HD13	0.42	1.90	6	1
1:M:24:VAL:HG23	1:N:24:VAL:HG23	0.42	1.92	6	1
1:R:17:LEU:HD22	1:R:35:MET:HE1	0.42	1.91	7	1
1:B:20:PHE:O	1:C:21:ALA:HB3	0.42	2.15	8	1
1:S:27:ASN:OD1	1:S:30:ALA:HB2	0.42	2.14	10	1
1:G:24:VAL:HG22	1:H:24:VAL:HG22	0.42	1.91	2	1
1:H:35:MET:HE2	1:I:35:MET:HG2	0.42	1.91	4	1
1:K:17:LEU:CD1	1:L:17:LEU:HD22	0.42	2.45	5	1
1:D:36:VAL:HG11	1:E:36:VAL:HG12	0.42	1.91	7	1
1:L:32:ILE:HD13	1:M:32:ILE:HD13	0.42	1.91	1	1
1:E:24:VAL:HG13	1:F:24:VAL:HG13	0.42	1.90	3	1
1:F:18:VAL:CG1	1:G:18:VAL:HG23	0.42	2.45	3	1
1:D:24:VAL:HG12	1:D:27:ASN:CB	0.42	2.45	6	1
1:K:31:ILE:HG21	1:K:34:LEU:HD23	0.42	1.92	7	1
1:G:24:VAL:HG23	1:H:24:VAL:O	0.42	2.15	9	1
1:P:34:LEU:CB	1:Q:34:LEU:HD12	0.41	2.41	4	1
1:S:39:VAL:HB	1:T:39:VAL:HG13	0.41	1.91	4	1
1:S:17:LEU:HD11	1:S:35:MET:HE2	0.41	1.92	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:G:19:PHE:HD2	1:G:35:MET:HE3	0.41	1.73	10	1
1:P:31:ILE:HG21	1:P:34:LEU:CD1	0.41	2.36	2	1
1:A:24:VAL:HG11	1:A:32:ILE:HD12	0.41	1.91	4	1
1:H:34:LEU:HD11	1:R:36:VAL:HG11	0.41	1.92	4	1
1:N:27:ASN:OD1	1:O:24:VAL:HG13	0.41	2.16	10	1
1:P:17:LEU:HB3	1:P:35:MET:HE3	0.41	1.91	1	1
1:N:35:MET:HE2	1:O:35:MET:HE3	0.41	1.92	4	1
1:Q:32:ILE:CD1	1:R:32:ILE:HD13	0.41	2.45	5	1
1:O:24:VAL:HG22	1:P:24:VAL:HG22	0.41	1.93	8	1
1:R:27:ASN:CG	1:R:30:ALA:HB2	0.41	2.40	9	1
1:O:24:VAL:CG1	1:P:24:VAL:HG23	0.41	2.42	3	1
1:L:17:LEU:HG	1:M:17:LEU:HD12	0.41	1.90	1	1
1:G:18:VAL:HG13	1:H:18:VAL:HG13	0.41	1.93	3	1
1:P:39:VAL:CG2	1:Q:39:VAL:HG13	0.41	2.43	6	1
1:C:24:VAL:HG22	1:C:27:ASN:OD1	0.41	2.16	9	1
1:K:22:GLU:OE1	1:L:21:ALA:HB1	0.41	2.15	1	1
1:D:17:LEU:HD12	1:D:35:MET:SD	0.41	2.55	3	1
1:A:29:GLY:CA	1:L:39:VAL:HG11	0.41	2.46	4	2
1:S:36:VAL:HG13	1:T:36:VAL:HG23	0.41	1.91	7	1
1:M:27:ASN:HD22	1:M:32:ILE:HD11	0.41	1.76	8	1
1:O:34:LEU:CB	1:P:34:LEU:HD22	0.41	2.44	8	1
1:B:29:GLY:CA	1:L:39:VAL:HG21	0.41	2.45	9	1
1:D:18:VAL:CG2	1:E:18:VAL:HG13	0.41	2.45	9	1
1:I:31:ILE:CG2	1:I:34:LEU:HD23	0.41	2.46	9	1
1:M:24:VAL:HG12	1:N:24:VAL:HG22	0.41	1.93	10	1
1:G:34:LEU:CD2	1:Q:36:VAL:HG11	0.41	2.36	2	3
1:F:24:VAL:HG23	1:G:24:VAL:HG23	0.41	1.93	4	1
1:H:31:ILE:HD11	1:R:38:GLY:HA2	0.41	1.93	5	1
1:E:24:VAL:HG23	1:F:24:VAL:HG23	0.41	1.93	2	1
1:M:34:LEU:HD13	1:N:34:LEU:CD2	0.41	2.46	3	1
1:E:36:VAL:CG1	1:O:34:LEU:HD11	0.41	2.45	4	1
1:H:22:GLU:HG2	1:I:21:ALA:HB1	0.41	1.91	4	1
1:P:31:ILE:HG21	1:P:34:LEU:HD23	0.41	1.93	4	1
1:H:24:VAL:HG22	1:H:27:ASN:ND2	0.41	2.31	5	1
1:K:34:LEU:CB	1:L:34:LEU:HD22	0.41	2.44	5	1
1:E:35:MET:SD	1:F:35:MET:HE1	0.41	2.56	6	1
1:F:35:MET:HB2	1:G:35:MET:HE3	0.41	1.92	6	1
1:E:17:LEU:HD12	1:E:35:MET:SD	0.41	2.56	3	1
1:F:24:VAL:HG12	1:G:24:VAL:HG22	0.41	1.91	5	1
1:S:17:LEU:HD23	1:S:35:MET:SD	0.41	2.56	8	1
1:P:17:LEU:HD22	1:P:17:LEU:N	0.40	2.31	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:17:LEU:HD23	1:A:35:MET:SD	0.40	2.56	6	1
1:D:27:ASN:ND2	1:D:30:ALA:HB3	0.40	2.31	6	1
1:C:16:LYS:C	1:C:17:LEU:HD12	0.40	2.41	10	1
1:K:31:ILE:HD12	1:L:31:ILE:HG12	0.40	1.93	1	1
1:G:24:VAL:HG22	1:H:24:VAL:CG2	0.40	2.46	2	1
1:S:32:ILE:CG1	1:T:32:ILE:HD13	0.40	2.46	3	1
1:E:19:PHE:HD1	1:F:35:MET:HE3	0.40	1.75	9	1
1:K:17:LEU:HD23	1:L:17:LEU:CG	0.40	2.47	4	1
1:K:35:MET:CB	1:L:35:MET:HE3	0.40	2.44	5	1
1:F:34:LEU:HD11	1:P:36:VAL:CG1	0.40	2.46	8	1
1:L:17:LEU:HD22	1:M:17:LEU:HD22	0.40	1.93	8	1
1:T:17:LEU:HD23	1:T:35:MET:CE	0.40	2.46	8	1
1:C:27:ASN:HD22	1:C:30:ALA:HB3	0.40	1.75	9	1
1:H:17:LEU:HD23	1:H:35:MET:HG2	0.40	1.93	1	1
1:M:31:ILE:HG21	1:M:34:LEU:HD23	0.40	1.91	2	1
1:M:35:MET:SD	1:N:35:MET:HE3	0.40	2.56	6	1
1:C:31:ILE:HG21	1:C:34:LEU:HD23	0.40	1.92	9	1
1:G:17:LEU:HD23	1:G:35:MET:SD	0.40	2.57	9	1
1:G:24:VAL:HG12	1:H:24:VAL:HG22	0.40	1.93	3	1
1:G:17:LEU:HD13	1:G:35:MET:SD	0.40	2.57	7	1

6.3 Torsion angles

6.3.1 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 NMR entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	21/40 (52%)	19±1 (90±6%)	2±1 (7±4%)	0±1 (2±3%)	7	44
1	B	22/40 (55%)	19±1 (86±4%)	3±1 (12±3%)	0±1 (2±3%)	7	45
1	C	22/40 (55%)	18±1 (82±4%)	3±1 (15±4%)	1±1 (3±4%)	6	41
1	D	22/40 (55%)	19±1 (87±2%)	2±0 (10±2%)	1±1 (3±3%)	6	41
1	E	22/40 (55%)	19±1 (85±3%)	3±1 (14±4%)	0±1 (2±3%)	9	52
1	F	23/40 (58%)	20±1 (87±4%)	2±1 (10±3%)	1±1 (3±3%)	6	42
1	G	23/40 (58%)	20±1 (87±3%)	3±1 (12±3%)	0±0 (1±2%)	12	60

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	H	22/40 (55%)	19±1 (86±4%)	2±1 (11±5%)	1±0 (3±2%)	6	41
1	I	20/40 (50%)	17±1 (86±4%)	2±1 (10±5%)	1±1 (4±4%)	3	27
1	J	16/40 (40%)	14±1 (86±4%)	1±1 (6±4%)	1±1 (8±5%)	1	13
1	K	23/40 (58%)	20±1 (85±3%)	2±1 (9±4%)	1±1 (6±3%)	2	21
1	L	23/40 (58%)	20±1 (88±3%)	2±1 (8±3%)	1±0 (4±0%)	3	28
1	M	23/40 (58%)	20±1 (86±5%)	2±1 (10±6%)	1±0 (4±2%)	3	28
1	N	25/40 (62%)	22±1 (87±4%)	2±1 (9±4%)	1±0 (4±1%)	4	32
1	O	23/40 (58%)	20±1 (85±3%)	2±1 (10±4%)	1±0 (4±2%)	3	28
1	P	25/40 (62%)	22±1 (86±5%)	3±1 (11±5%)	1±1 (3±3%)	6	40
1	Q	25/40 (62%)	22±0 (89±2%)	2±1 (8±3%)	1±1 (3±2%)	5	36
1	R	23/40 (58%)	20±1 (88±3%)	2±1 (9±3%)	1±0 (3±2%)	6	42
1	S	23/40 (58%)	20±1 (88±3%)	2±0 (7±2%)	1±1 (5±2%)	3	25
1	T	24/40 (60%)	21±1 (88±4%)	2±1 (7±3%)	1±1 (5±3%)	2	22
All	All	4500/8000 (56%)	3897 (87%)	443 (10%)	160 (4%)	4	32

All 43 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	L	37	GLY	10
1	M	37	GLY	9
1	N	37	GLY	9
1	S	29	GLY	9
1	I	29	GLY	7
1	K	33	GLY	7
1	J	29	GLY	6
1	J	33	GLY	6
1	K	37	GLY	6
1	T	33	GLY	6
1	O	37	GLY	5
1	P	37	GLY	5
1	T	29	GLY	5
1	O	29	GLY	5
1	Q	29	GLY	5
1	R	29	GLY	4
1	F	29	GLY	4
1	H	29	GLY	4
1	B	37	GLY	3

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Mol	Chain	Res	Type	Models (Total)
1	C	37	GLY	3
1	D	37	GLY	3
1	D	29	GLY	3
1	Q	37	GLY	3
1	A	37	GLY	2
1	E	29	GLY	2
1	E	37	GLY	2
1	F	37	GLY	2
1	G	37	GLY	2
1	I	37	GLY	2
1	P	29	GLY	2
1	C	24	VAL	2
1	A	33	GLY	2
1	R	37	GLY	2
1	S	37	GLY	2
1	T	37	GLY	2
1	B	24	VAL	2
1	H	23	ASP	1
1	J	23	ASP	1
1	C	25	GLY	1
1	H	37	GLY	1
1	M	29	GLY	1
1	A	24	VAL	1
1	G	29	GLY	1

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	15/31 (48%)	10±1 (69±7%)	5±1 (31±7%)	1	15
1	B	16/31 (52%)	12±2 (74±10%)	4±2 (26±10%)	2	22
1	C	16/31 (52%)	12±2 (76±11%)	4±2 (24±11%)	2	27
1	D	16/31 (52%)	12±1 (72±6%)	4±1 (28±6%)	1	20
1	E	16/31 (52%)	11±2 (71±11%)	5±2 (29±11%)	1	18
1	F	17/31 (55%)	12±2 (68±11%)	6±2 (32±11%)	1	13
1	G	16/31 (52%)	12±2 (77±11%)	4±2 (23±11%)	2	28

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	16/31 (52%)	12±2 (73±10%)	4±2 (27±10%)	2	21
1	I	14/31 (45%)	11±1 (78±8%)	3±1 (22±8%)	2	29
1	J	11/31 (35%)	9±1 (83±10%)	2±1 (17±10%)	4	38
1	K	16/31 (52%)	11±1 (69±8%)	5±1 (31±8%)	1	16
1	L	16/31 (52%)	13±1 (79±8%)	3±1 (21±8%)	3	31
1	M	16/31 (52%)	12±2 (76±10%)	4±2 (24±10%)	2	27
1	N	18/31 (58%)	13±1 (71±5%)	5±1 (29±5%)	1	18
1	O	16/31 (52%)	12±1 (78±8%)	4±1 (22±8%)	2	30
1	P	18/31 (58%)	14±1 (77±6%)	4±1 (23±6%)	2	28
1	Q	18/31 (58%)	14±2 (77±9%)	4±2 (23±9%)	2	27
1	R	16/31 (52%)	12±1 (74±5%)	4±1 (26±5%)	2	22
1	S	16/31 (52%)	13±1 (81±7%)	3±1 (19±7%)	3	34
1	T	18/31 (58%)	14±1 (80±8%)	4±1 (20±8%)	3	33
All	All	3210/6200 (52%)	2407 (75%)	803 (25%)	2	25

All 191 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	C	22	GLU	10
1	P	22	GLU	10
1	Q	22	GLU	10
1	R	22	GLU	10
1	E	22	GLU	9
1	I	22	GLU	9
1	K	22	GLU	9
1	K	34	LEU	9
1	N	22	GLU	9
1	A	22	GLU	8
1	B	22	GLU	8
1	F	28	LYS	8
1	F	35	MET	8
1	H	28	LYS	8
1	I	28	LYS	8
1	N	16	LYS	8
1	O	22	GLU	8
1	L	22	GLU	8
1	A	17	LEU	7

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Mol	Chain	Res	Type	Models (Total)
1	D	22	GLU	7
1	E	28	LYS	7
1	F	22	GLU	7
1	F	26	SER	7
1	G	22	GLU	7
1	G	26	SER	7
1	H	22	GLU	7
1	N	34	LEU	7
1	R	28	LYS	7
1	S	34	LEU	7
1	T	22	GLU	7
1	T	28	LYS	7
1	D	26	SER	7
1	K	20	PHE	7
1	P	35	MET	7
1	S	22	GLU	7
1	A	35	MET	7
1	E	35	MET	6
1	G	28	LYS	6
1	G	35	MET	6
1	H	16	LYS	6
1	K	35	MET	6
1	M	26	SER	6
1	M	34	LEU	6
1	N	28	LYS	6
1	O	26	SER	6
1	P	34	LEU	6
1	Q	28	LYS	6
1	A	23	ASP	6
1	B	20	PHE	6
1	K	23	ASP	6
1	M	22	GLU	6
1	M	28	LYS	6
1	T	17	LEU	6
1	H	34	LEU	6
1	A	28	LYS	5
1	D	28	LYS	5
1	F	16	LYS	5
1	F	34	LEU	5
1	I	34	LEU	5
1	J	34	LEU	5
1	L	26	SER	5

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Mol	Chain	Res	Type	Models (Total)
1	N	35	MET	5
1	R	26	SER	5
1	A	34	LEU	5
1	B	35	MET	5
1	C	17	LEU	5
1	C	19	PHE	5
1	E	19	PHE	5
1	K	28	LYS	5
1	Q	16	LYS	5
1	R	34	LEU	5
1	S	28	LYS	5
1	D	34	LEU	5
1	Q	15	GLN	5
1	S	35	MET	5
1	B	28	LYS	5
1	R	35	MET	5
1	T	16	LYS	5
1	L	28	LYS	5
1	C	26	SER	4
1	D	19	PHE	4
1	D	20	PHE	4
1	E	16	LYS	4
1	F	19	PHE	4
1	G	16	LYS	4
1	J	28	LYS	4
1	L	20	PHE	4
1	O	34	LEU	4
1	Q	27	ASN	4
1	Q	35	MET	4
1	R	17	LEU	4
1	R	27	ASN	4
1	T	35	MET	4
1	B	34	LEU	4
1	C	16	LYS	4
1	D	17	LEU	4
1	L	34	LEU	4
1	M	19	PHE	4
1	O	35	MET	4
1	Q	34	LEU	4
1	B	19	PHE	4
1	G	17	LEU	4
1	H	35	MET	4

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Mol	Chain	Res	Type	Models (Total)
1	L	27	ASN	4
1	N	15	GLN	4
1	O	28	LYS	4
1	P	16	LYS	4
1	B	16	LYS	4
1	N	20	PHE	4
1	O	27	ASN	4
1	E	34	LEU	3
1	F	15	GLN	3
1	F	17	LEU	3
1	I	26	SER	3
1	I	35	MET	3
1	J	26	SER	3
1	K	17	LEU	3
1	S	17	LEU	3
1	B	17	LEU	3
1	D	35	MET	3
1	E	17	LEU	3
1	H	17	LEU	3
1	H	26	SER	3
1	J	27	ASN	3
1	M	27	ASN	3
1	P	15	GLN	3
1	E	20	PHE	3
1	E	26	SER	3
1	M	20	PHE	3
1	A	20	PHE	3
1	D	16	LYS	3
1	N	19	PHE	3
1	N	26	SER	3
1	C	35	MET	3
1	H	20	PHE	3
1	I	20	PHE	3
1	P	28	LYS	3
1	C	28	LYS	3
1	J	22	GLU	3
1	A	27	ASN	2
1	F	27	ASN	2
1	E	23	ASP	2
1	E	27	ASN	2
1	K	26	SER	2
1	N	27	ASN	2

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Mol	Chain	Res	Type	Models (Total)
1	Q	20	PHE	2
1	B	26	SER	2
1	O	17	LEU	2
1	P	19	PHE	2
1	P	20	PHE	2
1	S	20	PHE	2
1	T	27	ASN	2
1	F	20	PHE	2
1	R	20	PHE	2
1	T	34	LEU	2
1	A	19	PHE	2
1	L	17	LEU	2
1	P	27	ASN	2
1	M	23	ASP	2
1	O	20	PHE	2
1	C	20	PHE	2
1	G	19	PHE	2
1	H	19	PHE	2
1	J	35	MET	1
1	T	31	ILE	1
1	L	19	PHE	1
1	O	19	PHE	1
1	P	23	ASP	1
1	A	26	SER	1
1	D	23	ASP	1
1	K	31	ILE	1
1	M	17	LEU	1
1	S	26	SER	1
1	A	24	VAL	1
1	B	24	VAL	1
1	D	27	ASN	1
1	K	27	ASN	1
1	L	23	ASP	1
1	P	17	LEU	1
1	Q	17	LEU	1
1	S	23	ASP	1
1	T	20	PHE	1
1	C	23	ASP	1
1	F	23	ASP	1
1	C	34	LEU	1
1	M	35	MET	1
1	N	23	ASP	1

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Mol	Chain	Res	Type	Models (Total)
1	Q	26	SER	1
1	T	26	SER	1
1	G	34	LEU	1
1	H	23	ASP	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 2% for the well-defined parts and 2% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chemical_shifts*

7.1.1 Bookkeeping

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	178
Number of shifts mapped to atoms	165
Number of unparsed shifts	0
Number of shifts with mapping errors	13
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 13 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	2	ALA	C	173.59	0.009	1
1	A	2	ALA	CA	52.706	0.198	1
1	A	2	ALA	CB	19.108	0.094	1
1	A	5	ARG	CA	54.37	0	1
1	A	5	ARG	CD	43.57	0.088	1
1	A	5	ARG	CG	27.46	0.071	1
1	A	5	ARG	CZ	159.39	0.117	1
1	A	5	ARG	NE	87.49	0.132	1
1	A	5	ARG	NH1	74.624	0.025	.
1	A	8	SER	CA	58.872	0.089	1
1	A	8	SER	CB	63.207	0.278	1
1	A	8	SER	N	116.84	0	1
1	A	9	GLY	CA	44.209	0.109	1

7.1.2 Chemical shift referencing ⓘ

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	31	-0.33 ± 0.33	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	26	-0.50 ± 0.54	None needed (imprecise)
$^{13}\text{C}'$	26	0.66 ± 0.22	Should be applied
^{15}N	26	-5.80 ± 1.10	Should be applied

7.1.3 Completeness of resonance assignments ⓘ

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 2%, i.e. 111 atoms were assigned a chemical shift out of a possible 5779. 0 out of 107 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	57/2345 (2%)	0/992 (0%)	38/902 (4%)	19/451 (4%)
Sidechain	47/3044 (2%)	3/2035 (0%)	42/954 (4%)	2/55 (4%)
Aromatic	7/390 (2%)	2/195 (1%)	5/195 (3%)	0/0 (—%)
Overall	111/5779 (2%)	5/3222 (0%)	85/2051 (4%)	21/506 (4%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 2%, i.e. 162 atoms were assigned a chemical shift out of a possible 8241. 0 out of 160 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	77/3200 (2%)	0/1340 (0%)	52/1240 (4%)	25/620 (4%)
Sidechain	69/4180 (2%)	3/2780 (0%)	62/1320 (5%)	4/80 (5%)
Aromatic	16/861 (2%)	3/440 (1%)	12/380 (3%)	1/41 (2%)
Overall	162/8241 (2%)	6/4560 (0%)	126/2940 (4%)	30/741 (4%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

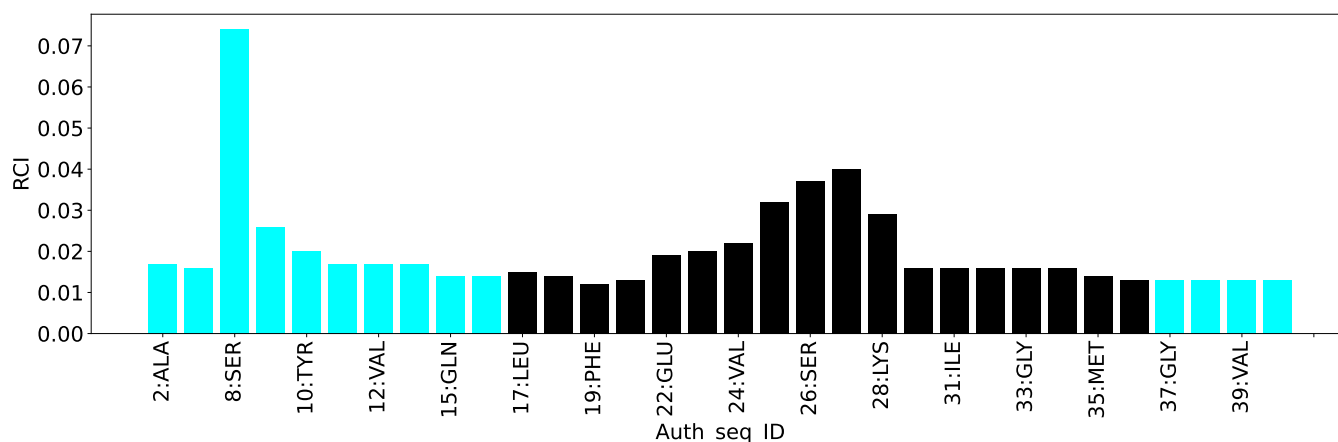
7.1.4 Statistically unusual chemical shifts ⓘ

There are no statistically unusual chemical shifts.

7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	234
Intra-residue ($ i-j =0$)	0
Sequential ($ i-j =1$)	177
Medium range ($ i-j >1$ and $ i-j <5$)	3
Long range ($ i-j \geq 5$)	54
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	0.3
Number of long range restraints per residue ¹	0.1

¹Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	None	None
0.2-0.5 (Medium)	None	None
>0.5 (Large)	53.0	24.15

8.2.2 Average number of dihedral-angle violations per model [i](#)

Dihedral-angle violations less than 1° are not included in the calculation. There are no dihedral-angle violations

9 Distance violation analysis ⓘ

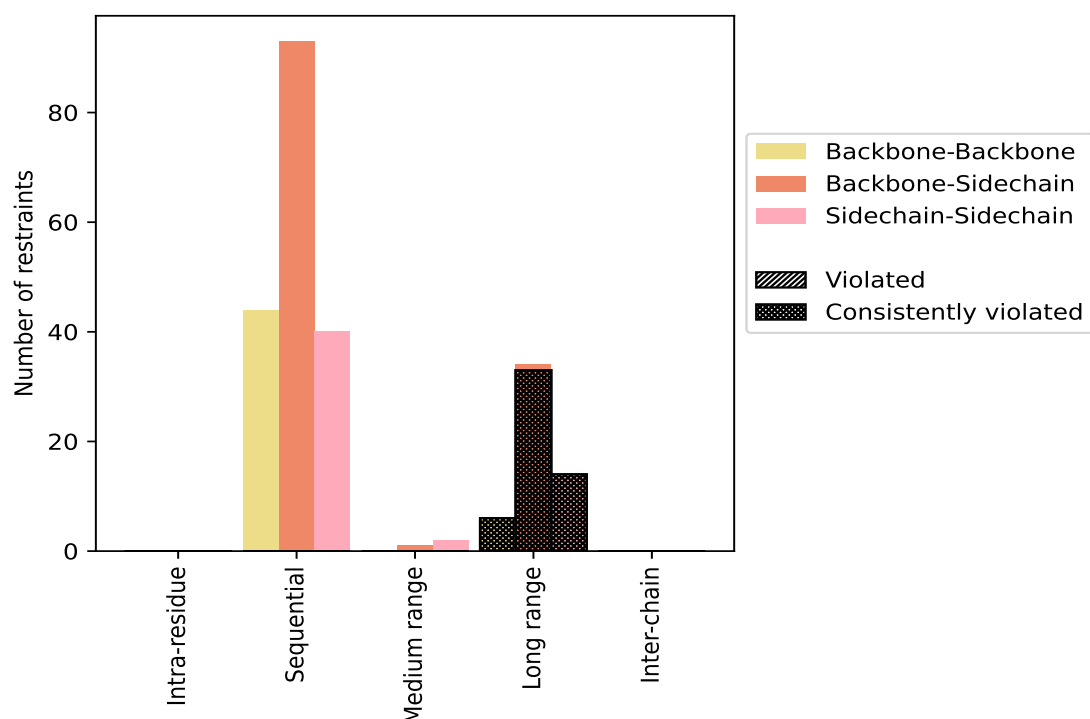
9.1 Summary of distance violations ⓘ

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($ i-j =0$)	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sequential ($ i-j =1$)	177	75.6	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	44	18.8	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	93	39.7	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	40	17.1	0	0.0	0.0	0	0.0	0.0
Medium range ($ i-j >1$ & $ i-j <5$)	3	1.3	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	1	0.4	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	2	0.9	0	0.0	0.0	0	0.0	0.0
Long range ($ i-j \geq 5$)	54	23.1	53	98.1	22.6	53	98.1	22.6
Backbone-Backbone	6	2.6	6	100.0	2.6	6	100.0	2.6
Backbone-Sidechain	34	14.5	33	97.1	14.1	33	97.1	14.1
Sidechain-Sidechain	14	6.0	14	100.0	6.0	14	100.0	6.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	234	100.0	53	22.6	22.6	53	22.6	22.6
Backbone-Backbone	50	21.4	6	12.0	2.6	6	12.0	2.6
Backbone-Sidechain	128	54.7	33	25.8	14.1	33	25.8	14.1
Sidechain-Sidechain	56	23.9	14	25.0	6.0	14	25.0	6.0

¹ percentage calculated with respect to the total number of distance restraints, ² percentage calculated with respect to the number of restraints in a particular restraint category, ³ violated in at least one model, ⁴ violated in all the models

9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

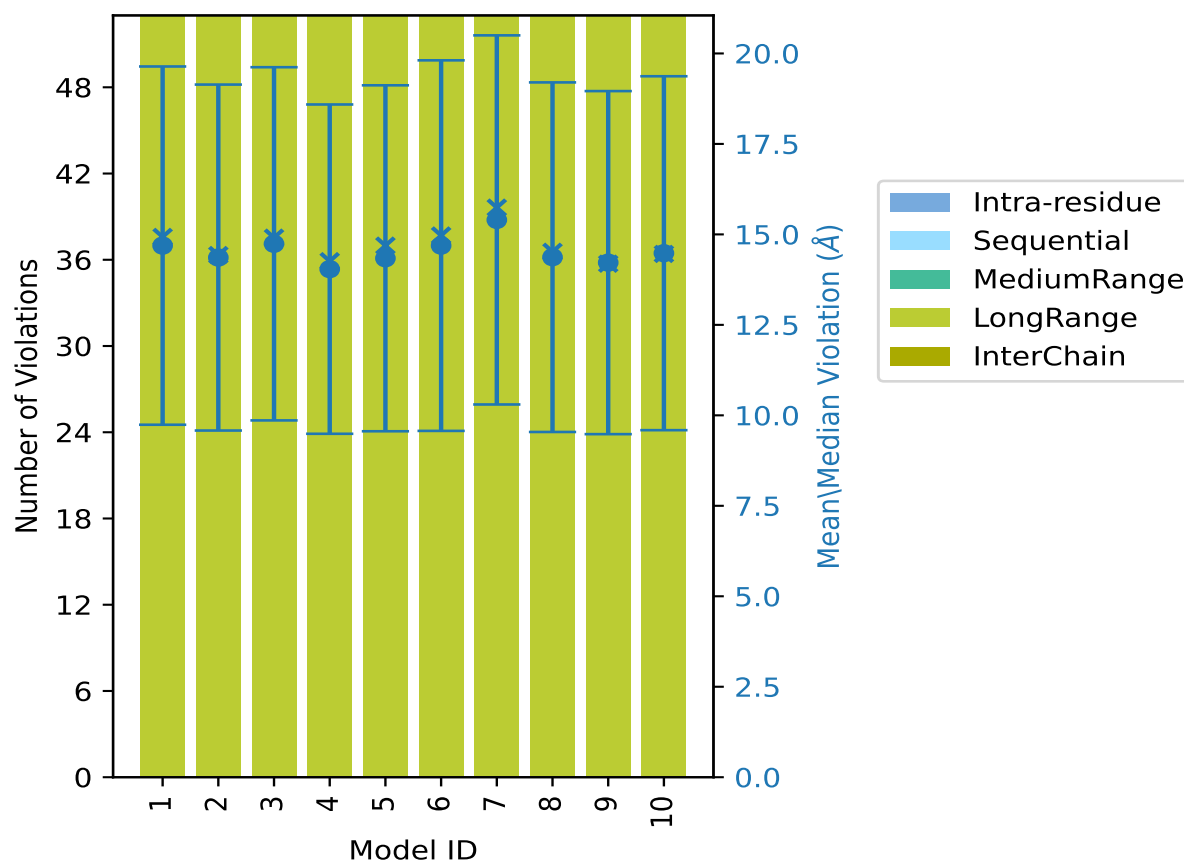
9.2 Distance violation statistics for each model [i](#)

The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	0	0	0	53	0	53	14.69	23.1	4.95	14.93
2	0	0	0	53	0	53	14.36	21.7	4.78	14.43
3	0	0	0	53	0	53	14.74	23.13	4.88	14.91
4	0	0	0	53	0	53	14.04	20.98	4.55	14.26
5	0	0	0	53	0	53	14.34	22.45	4.78	14.69
6	0	0	0	53	0	53	14.69	23.4	5.12	14.97
7	0	0	0	53	0	53	15.4	24.15	5.1	15.74
8	0	0	0	53	0	53	14.37	21.62	4.83	14.52
9	0	0	0	53	0	53	14.22	21.16	4.74	14.19
10	0	0	0	53	0	53	14.48	22.69	4.89	14.46

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model [i](#)



The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

9.3 Distance violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 181(IR:0, SQ:177, MR:3, LR:1, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	0	0	0	1	10.0
0	0	0	0	0	0	2	20.0
0	0	0	0	0	0	3	30.0

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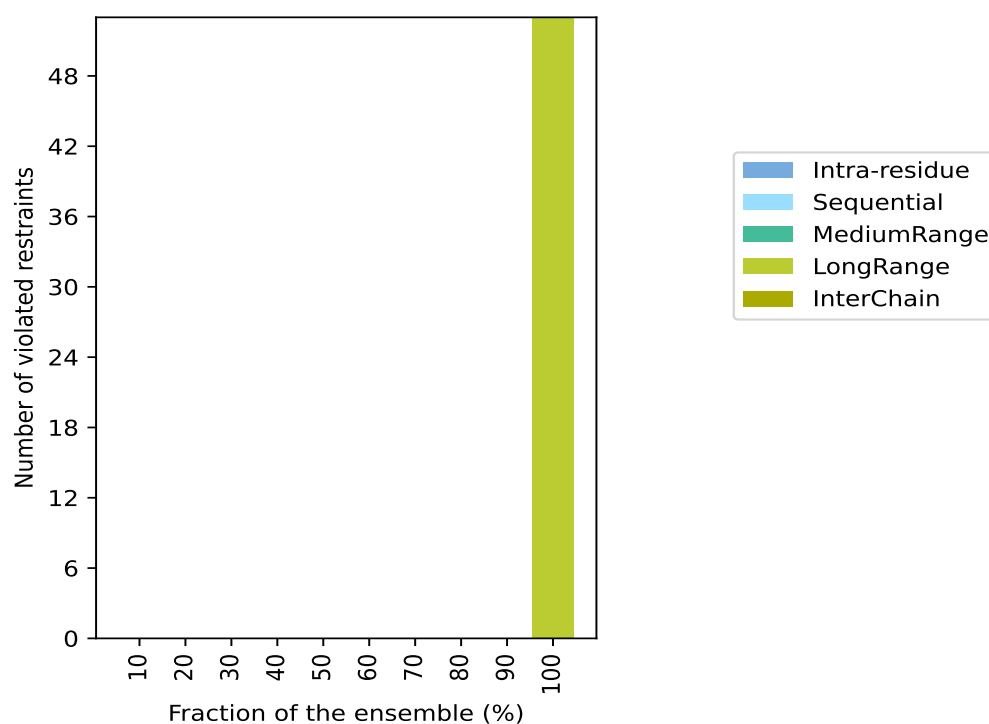
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	0	0	0	4	40.0
0	0	0	0	0	0	5	50.0
0	0	0	0	0	0	6	60.0
0	0	0	0	0	0	7	70.0
0	0	0	0	0	0	8	80.0
0	0	0	0	0	0	9	90.0
0	0	0	53	0	53	10	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints,

⁵Inter-chain restraints, ⁶ Number of models with violations

9.3.1 Bar graph : Distance violation statistics for the ensemble ⓘ

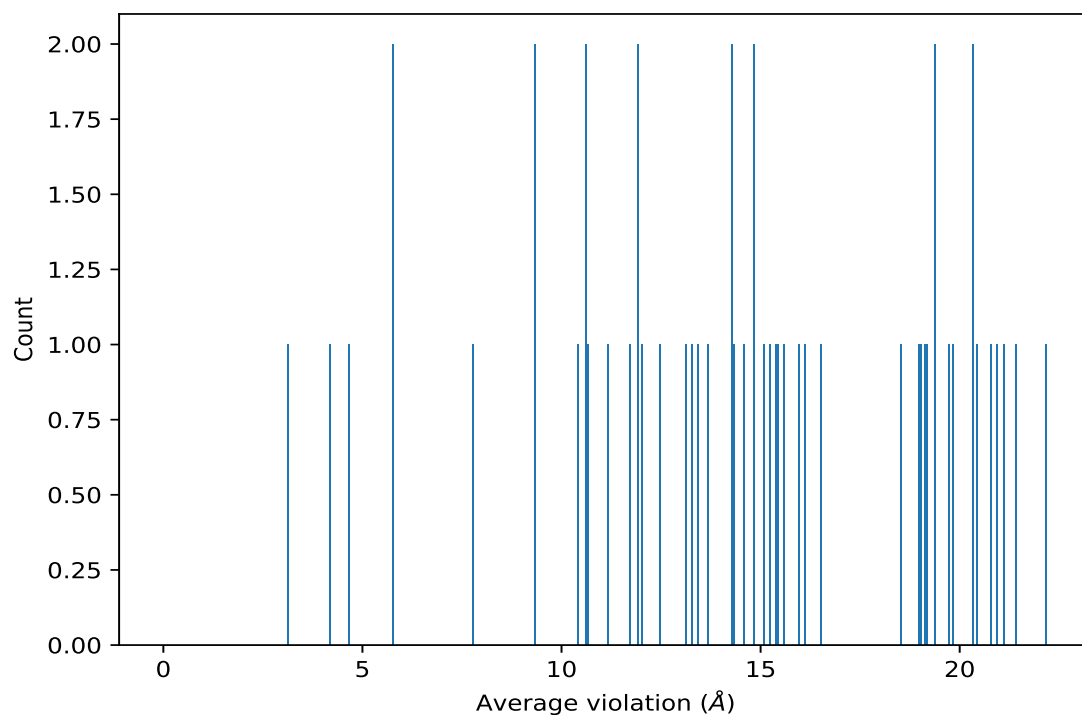


9.4 Most violated distance restraints in the ensemble ⓘ

9.4.1 Histogram : Distribution of mean distance violations ⓘ

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models

in the ensemble



9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	10	22.2	1.27	22.57
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	10	21.45	1.23	21.9
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	10	21.15	0.58	21.07
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	10	20.95	0.39	20.94
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	10	20.76	0.31	20.78
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	10	20.41	0.51	20.32
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	10	20.34	1.17	20.86
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	10	20.34	1.17	20.86
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	10	19.83	0.34	19.84
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	10	19.72	0.45	19.73
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	10	19.37	0.46	19.29
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	10	19.37	0.46	19.29
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	10	19.17	0.34	19.1
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	10	19.12	0.24	19.11
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	10	19.0	1.16	19.45

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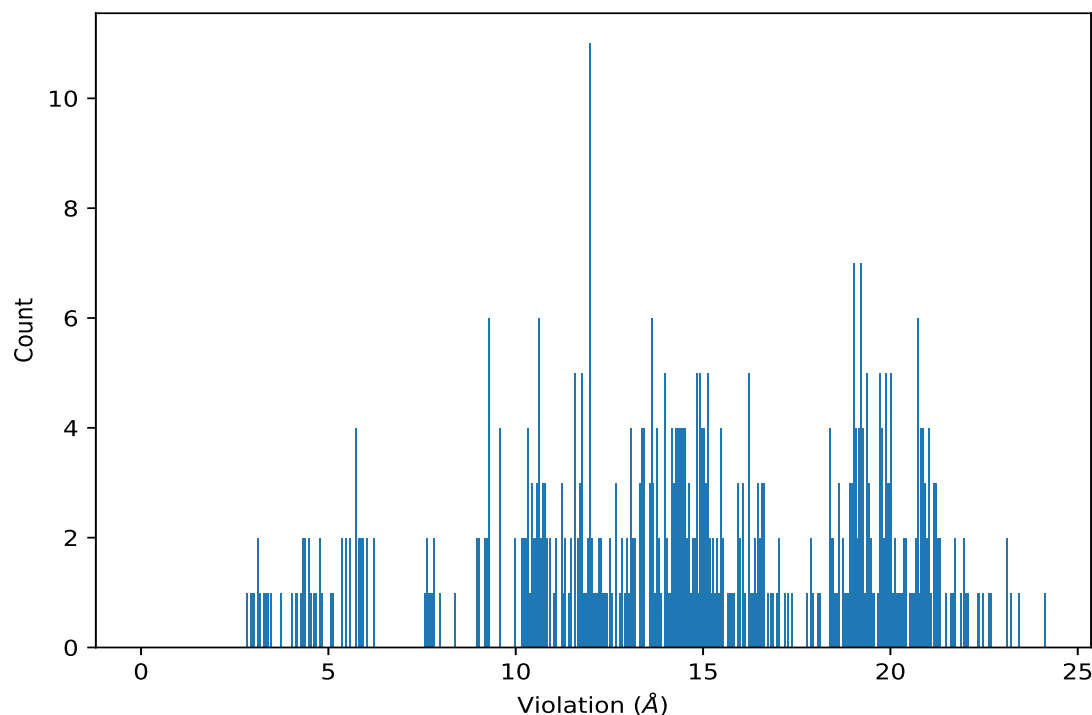
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	10	18.95	0.39	18.94
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	10	18.51	0.37	18.52
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	10	16.51	0.37	16.52
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	10	16.13	0.35	16.14
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	10	15.96	1.27	16.47
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	10	15.6	1.19	16.16
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	10	15.44	0.44	15.46
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	10	15.38	1.38	16.11
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	10	15.24	0.32	15.25
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	10	15.07	0.36	15.08
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	10	14.85	0.48	14.82
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	10	14.84	0.35	14.84
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	10	14.6	0.44	14.54
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	10	14.34	0.2	14.3
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	10	14.29	0.31	14.3
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	10	14.28	0.46	14.24
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	10	13.69	0.38	13.7
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	10	13.45	0.23	13.42
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	10	13.26	0.48	13.26
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	10	13.14	0.27	13.08
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	10	12.48	0.35	12.46
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	10	12.0	0.25	11.98
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	10	11.95	0.31	11.95
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	10	11.95	0.31	11.95
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	10	11.74	0.25	11.68
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	10	11.18	0.34	11.14
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	10	10.7	0.24	10.64
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	10	10.62	0.3	10.6
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	10	10.61	0.3	10.58
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	10	10.41	0.2	10.32
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	10	9.33	0.28	9.27
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	10	9.33	0.28	9.27
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	10	7.79	0.22	7.74
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	10	5.77	0.24	5.78
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	10	5.77	0.24	5.78
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	10	4.66	0.28	4.72
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	10	4.18	0.35	4.26
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	10	3.11	0.17	3.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

9.5.1 Histogram : Distribution of distance violations [i](#)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



9.5.2 Table : All distance violations [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	7	24.15
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	6	23.4
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	7	23.24
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	3	23.13
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	1	23.1
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	10	22.69
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	6	22.62
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	5	22.45
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	1	22.37
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	3	22.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	10	22.06
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	7	22.04
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	7	21.97
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	7	21.97
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	7	21.87
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	5	21.74
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	2	21.7
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	6	21.67
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	8	21.62
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	7	21.47
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	6	21.31
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	6	21.31
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	1	21.27
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	1	21.27
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	6	21.24
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	3	21.2
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	3	21.2
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	7	21.17
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	9	21.16
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	2	21.15
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	8	21.06
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	3	21.04
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	1	21.01
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	10	21.0
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	10	21.0
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	4	20.98
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	2	20.97
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	6	20.94
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	8	20.92
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	1	20.9
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	3	20.87
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	8	20.87
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	1	20.85
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	6	20.85
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	2	20.84
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	3	20.84
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	8	20.82
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	7	20.8
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	10	20.79
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	9	20.74
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	9	20.73
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	10	20.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	5	20.71
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	5	20.71
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	7	20.7
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	9	20.68
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	2	20.65
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	7	20.63
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	10	20.56
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	5	20.51
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	5	20.44
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	9	20.4
(1,223)	1:39:A:VAL:CB	1:29:A:GLY:C	4	20.37
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	2	20.35
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	8	20.33
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	4	20.25
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	1	20.22
(1,225)	1:39:A:VAL:CB	1:30:A:ALA:CB	4	20.19
(1,227)	1:39:A:VAL:CG1	1:29:A:GLY:CA	4	20.14
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	3	20.11
(1,230)	1:39:A:VAL:CG2	1:29:A:GLY:CA	5	20.05
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	9	20.04
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	6	20.03
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	7	20.02
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	7	20.01
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	7	20.01
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	10	19.98
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	6	19.96
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	6	19.95
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	1	19.92
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	3	19.91
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	8	19.91
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	1	19.88
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	3	19.87
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	7	19.87
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	8	19.86
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	8	19.86
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	3	19.84
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	2	19.83
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	6	19.77
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	6	19.77
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	2	19.77
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	10	19.75
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	1	19.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	7	19.72
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	2	19.71
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	2	19.71
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	8	19.71
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	9	19.65
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	10	19.59
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	5	19.5
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	9	19.49
(1,226)	1:39:A:VAL:CG1	1:29:A:GLY:C	4	19.45
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	10	19.43
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	8	19.4
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	8	19.4
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	7	19.38
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	9	19.37
(1,229)	1:39:A:VAL:CG2	1:29:A:GLY:C	5	19.37
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	9	19.37
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	2	19.35
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	5	19.31
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	9	19.28
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	9	19.27
(1,188)	1:30:A:ALA:CA	1:39:A:VAL:CB	4	19.26
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	3	19.25
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	6	19.24
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	5	19.23
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	1	19.21
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	4	19.21
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	1	19.21
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	4	19.21
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	8	19.2
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	2	19.19
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	2	19.19
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	3	19.17
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	8	19.15
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	2	19.13
(1,183)	1:29:A:GLY:CA	1:39:A:VAL:CB	4	19.1
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	1	19.09
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	3	19.07
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	3	19.07
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	1	19.06
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	3	19.04
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	10	19.03
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	10	19.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	9	19.01
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	9	19.01
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	5	19.01
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	1	19.01
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	6	18.99
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	2	18.97
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	4	18.96
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	4	18.94
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	8	18.92
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	5	18.91
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	10	18.86
(1,187)	1:30:A:ALA:CA	1:39:A:VAL:CA	6	18.84
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	10	18.79
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	9	18.74
(1,182)	1:29:A:GLY:CA	1:39:A:VAL:CA	10	18.7
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	3	18.61
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	6	18.61
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	8	18.61
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	1	18.56
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	5	18.51
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	2	18.47
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	9	18.45
(1,231)	1:39:A:VAL:CG2	1:30:A:ALA:CA	5	18.41
(1,190)	1:30:A:ALA:CA	1:39:A:VAL:CG2	5	18.41
(1,228)	1:39:A:VAL:CG1	1:30:A:ALA:CA	4	18.38
(1,189)	1:30:A:ALA:CA	1:39:A:VAL:CG1	4	18.38
(1,181)	1:29:A:GLY:C	1:39:A:VAL:CB	4	18.37
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	10	18.36
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	5	18.12
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	8	18.09
(1,224)	1:39:A:VAL:CB	1:30:A:ALA:C	4	17.9
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	7	17.89
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	2	17.86
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	9	17.79
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	7	17.38
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	7	17.27
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	7	17.18
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	1	17.03
(1,184)	1:30:A:ALA:C	1:39:A:VAL:CG1	4	17.0
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	7	16.96
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	6	16.88
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	3	16.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	6	16.74
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	3	16.61
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	6	16.61
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	8	16.61
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	10	16.57
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	1	16.57
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	1	16.56
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	7	16.54
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	6	16.53
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	2	16.47
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	1	16.45
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	9	16.45
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	3	16.42
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	5	16.37
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	10	16.36
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	10	16.34
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	3	16.27
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	10	16.24
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	8	16.23
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	1	16.22
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	6	16.21
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	3	16.2
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	5	16.12
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	9	16.08
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	2	16.07
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	10	16.06
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	5	15.99
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	5	15.98
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	7	15.93
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	7	15.91
(1,185)	1:30:A:ALA:C	1:39:A:VAL:CB	4	15.9
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	7	15.81
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	5	15.75
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	7	15.74
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	1	15.67
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	3	15.54
(1,233)	1:39:A:VAL:CB	1:31:A:ILE:CA	4	15.51
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	6	15.49
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	4	15.48
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	2	15.47
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	8	15.45
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	5	15.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	3	15.39
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	6	15.38
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	1	15.32
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	10	15.28
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	7	15.27
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	1	15.22
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	2	15.18
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	6	15.16
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	10	15.13
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	5	15.12
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	9	15.12
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	3	15.12
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	8	15.1
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	7	15.08
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	10	15.06
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	1	15.05
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	6	15.04
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	8	15.04
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	7	15.03
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	2	15.0
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	10	14.98
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	6	14.97
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	2	14.95
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	9	14.95
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	3	14.94
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	1	14.93
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	2	14.93
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	3	14.91
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	8	14.9
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	8	14.89
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	2	14.84
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	9	14.84
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	8	14.83
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	9	14.83
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	7	14.8
(1,234)	1:39:A:VAL:CB	1:31:A:ILE:CG1	4	14.77
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	5	14.76
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	5	14.73
(1,201)	1:31:A:ILE:CD1	1:39:A:VAL:C	6	14.73
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	5	14.69
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	7	14.61
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	2	14.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	8	14.61
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	9	14.56
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	4	14.55
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	9	14.52
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	8	14.52
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	1	14.52
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	3	14.51
(1,192)	1:31:A:ILE:CB	1:39:A:VAL:CB	4	14.48
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	6	14.46
(1,207)	1:31:A:ILE:CG1	1:39:A:VAL:CA	10	14.46
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	4	14.45
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	9	14.44
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	2	14.43
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	2	14.42
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	4	14.41
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	1	14.38
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	10	14.38
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	8	14.36
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	3	14.36
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	8	14.33
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	5	14.33
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	6	14.33
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	1	14.32
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	4	14.27
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	3	14.27
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	1	14.26
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	4	14.26
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	5	14.22
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	4	14.22
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	10	14.21
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	2	14.19
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	9	14.19
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	10	14.15
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	2	14.15
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	10	14.14
(1,217)	1:38:A:GLY:CA	1:30:A:ALA:CB	6	14.09
(1,203)	1:31:A:ILE:CD1	1:39:A:VAL:CB	9	14.04
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	3	14.0
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	2	13.98
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	7	13.98
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	8	13.97
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	8	13.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	7	13.95
(1,208)	1:31:A:ILE:CG1	1:39:A:VAL:CG1	4	13.89
(1,202)	1:31:A:ILE:CD1	1:39:A:VAL:CA	9	13.82
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	1	13.8
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	8	13.76
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	8	13.75
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	3	13.75
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	6	13.75
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	7	13.73
(1,194)	1:31:A:ILE:CB	1:39:A:VAL:CG2	5	13.69
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	9	13.68
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	3	13.66
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	2	13.64
(1,193)	1:31:A:ILE:CB	1:39:A:VAL:CG1	4	13.64
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	10	13.63
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	4	13.63
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	2	13.62
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	9	13.61
(1,205)	1:31:A:ILE:CD1	1:39:A:VAL:CG2	5	13.59
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	9	13.59
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	6	13.58
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	4	13.42
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	8	13.42
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	9	13.41
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	1	13.41
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	3	13.39
(1,204)	1:31:A:ILE:CD1	1:39:A:VAL:CG1	9	13.37
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	2	13.37
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	9	13.36
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	7	13.33
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	5	13.32
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	5	13.32
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	10	13.19
(1,186)	1:30:A:ALA:CA	1:38:A:GLY:CA	6	13.18
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	8	13.11
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	1	13.1
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	2	13.09
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	4	13.08
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	1	13.06
(1,211)	1:31:A:ILE:CG2	1:39:A:VAL:CB	4	13.06
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	4	13.03
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	5	12.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	10	12.96
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	3	12.9
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	6	12.82
(1,216)	1:38:A:GLY:CA	1:30:A:ALA:C	10	12.82
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	3	12.75
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	7	12.68
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	7	12.68
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	7	12.65
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	2	12.56
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	9	12.54
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	1	12.5
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	8	12.43
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	5	12.36
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	7	12.31
(1,232)	1:39:A:VAL:CG2	1:31:A:ILE:CG2	5	12.25
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	4	12.25
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	3	12.23
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	3	12.23
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	3	12.18
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	6	12.1
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	9	12.09
(1,206)	1:31:A:ILE:CG1	1:38:A:GLY:C	10	12.03
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	8	12.0
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	4	11.98
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	5	11.98
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	4	11.98
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	5	11.98
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	1	11.98
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	7	11.97
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	2	11.97
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	3	11.96
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	1	11.96
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	1	11.96
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	9	11.95
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	6	11.94
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	6	11.94
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	5	11.87
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	4	11.82
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	2	11.78
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	10	11.78
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	2	11.78
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	10	11.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	6	11.75
(1,191)	1:31:A:ILE:CB	1:38:A:GLY:C	10	11.73
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	8	11.71
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	1	11.7
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	2	11.67
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	4	11.66
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	8	11.59
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	8	11.59
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	5	11.57
(1,215)	1:38:A:GLY:C	1:31:A:ILE:CD1	9	11.56
(1,199)	1:31:A:ILE:CD1	1:38:A:GLY:C	9	11.56
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	3	11.48
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	10	11.48
(1,219)	1:38:A:GLY:CA	1:31:A:ILE:CA	6	11.43
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	7	11.32
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	7	11.3
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	7	11.29
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	9	11.23
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	2	11.22
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	1	11.21
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	4	11.08
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	5	11.07
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	8	11.04
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	3	10.92
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	3	10.91
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	9	10.84
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	3	10.81
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	9	10.77
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	7	10.77
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	4	10.77
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	10	10.73
(1,221)	1:38:A:GLY:CA	1:31:A:ILE:CG1	6	10.72
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	9	10.72
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	1	10.69
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	5	10.65
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	2	10.64
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	4	10.63
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	8	10.62
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	1	10.62
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	8	10.61
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	2	10.6
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	5	10.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	6	10.57
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	1	10.55
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	3	10.52
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	10	10.52
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	8	10.47
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	10	10.45
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	5	10.43
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	2	10.43
(1,220)	1:38:A:GLY:CA	1:31:A:ILE:CB	6	10.4
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	4	10.38
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	1	10.32
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	4	10.32
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	10	10.32
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	6	10.3
(1,209)	1:31:A:ILE:CG2	1:38:A:GLY:C	10	10.28
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	9	10.26
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	6	10.22
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	2	10.21
(1,218)	1:38:A:GLY:CA	1:31:A:ILE:C	5	10.19
(1,200)	1:31:A:ILE:CD1	1:38:A:GLY:CA	8	10.19
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	7	9.99
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	7	9.99
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	3	9.57
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	3	9.57
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	9	9.55
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	9	9.55
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	1	9.29
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	2	9.29
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	1	9.29
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	2	9.29
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	8	9.26
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	8	9.26
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	4	9.22
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	4	9.22
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	5	9.16
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	5	9.16
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	10	9.03
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	10	9.03
(1,222)	1:38:A:GLY:CA	1:31:A:ILE:CG2	6	8.98
(1,210)	1:31:A:ILE:CG2	1:38:A:GLY:CA	6	8.98
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	7	8.37
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	3	7.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	10	7.81
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	1	7.8
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	4	7.78
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	5	7.7
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	9	7.66
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	6	7.63
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	8	7.61
(1,198)	1:31:A:ILE:CD1	1:37:A:GLY:CA	2	7.58
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	7	6.21
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	7	6.21
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	10	6.02
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	10	6.02
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	3	5.93
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	3	5.93
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	1	5.87
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	1	5.87
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	6	5.82
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	6	5.82
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	4	5.73
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	5	5.73
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	4	5.73
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	5	5.73
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	2	5.56
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	2	5.56
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	8	5.48
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	8	5.48
(1,212)	1:36:A:VAL:C	1:31:A:ILE:CD1	9	5.39
(1,195)	1:31:A:ILE:CD1	1:36:A:VAL:C	9	5.39
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	7	5.12
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	3	5.05
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	1	4.83
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	2	4.75
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	5	4.75
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	8	4.68
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	10	4.64
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	7	4.5
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	4	4.48
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	6	4.48
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	10	4.38
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	3	4.37
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	9	4.34
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	1	4.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,213)	1:36:A:VAL:CG1	1:31:A:ILE:CG1	6	4.25
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	5	4.19
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	4	4.11
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	2	4.0
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	8	3.72
(1,196)	1:31:A:ILE:CD1	1:36:A:VAL:CB	9	3.47
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	7	3.39
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	3	3.3
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	1	3.26
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	2	3.19
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	5	3.12
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	8	3.1
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	10	3.0
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	4	2.98
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	9	2.9
(1,197)	1:31:A:ILE:CG2	1:36:A:VAL:CB	6	2.83

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found