



# Full wwPDB NMR Structure Validation Report ⓘ

Jun 8, 2023 – 12:38 PM EDT

PDB ID : 2N1F  
EMDB ID : EMD-2971  
BMRB ID : 26550  
Title : Structure and assembly of the mouse ASC filament by combined NMR spectroscopy and cryo-electron microscopy  
Authors : Sborgi, L.; Ravotti, F.; Dandey, V.; Dick, M.; Mazur, A.; Reckel, S.; Chami, M.; Scherer, S.; Bockmann, A.; Egelman, E.; Stahlberg, H.; Broz, P.; Meier, B.; Hiller, S.  
Deposited on : 2015-04-01

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

We welcome your comments at [validation@mail.wwpdb.org](mailto: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>.

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

EMDB validation analysis : **NOT EXECUTED**  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : **NOT EXECUTED**  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.33

# 1 Overall quality at a glance i

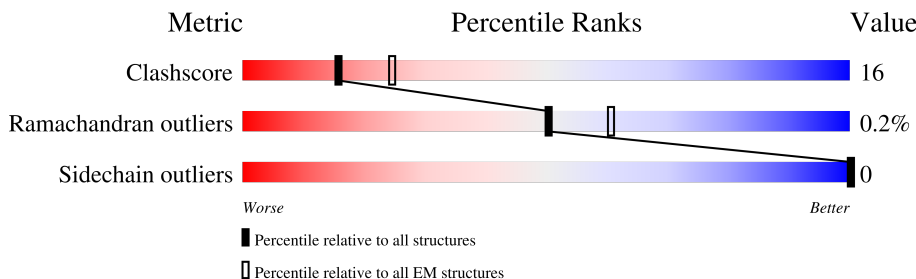
The following experimental techniques were used to determine the structure:

*SOLID-STATE NMR, ELECTRON MICROSCOPY*

The reported resolution of this entry is 4.00 Å.

The overall completeness of chemical shifts assignment is 3%.

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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	89	78% 20% .
1	B	89	78% 22%
1	C	89	76% 24%
1	D	89	76% 24%
1	E	89	79% 21%
1	F	89	80% 20%
1	G	89	78% 22%
1	H	89	79% 21%

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Mol	Chain	Length	Quality of chain	
1	I	89	 76%	24%
1	J	89	 79%	21%
1	K	89	 80%	20%
1	L	89	 76%	24%
1	M	89	 76%	24%
1	N	89	 76%	24%
1	O	89	 79%	21%

## 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:4-A:90, B:2-B:90, C:2-C:90, D:2-D:90, E:2-E:90, F:2-F:90, G:2-G:90, H:2-H:90, I:2-I:90, J:2-J:90, K:2-K:90, L:2-L:90, M:2-M:90, N:2-N:90, O:2-O:90 (1333)	0.14	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 3 single-model clusters were found.

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

### 3 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 10590 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Apoptosis-associated speck-like protein.

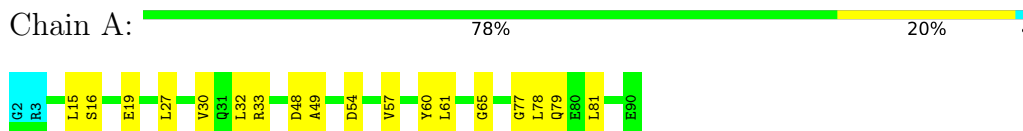
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	89	706	445	119	138	4	0	
1	B	89	706	445	119	138	4	0	
1	C	89	706	445	119	138	4	0	
1	D	89	706	445	119	138	4	0	
1	E	89	706	445	119	138	4	0	
1	F	89	706	445	119	138	4	0	
1	G	89	706	445	119	138	4	0	
1	H	89	706	445	119	138	4	0	
1	I	89	706	445	119	138	4	0	
1	J	89	706	445	119	138	4	0	
1	K	89	706	445	119	138	4	0	
1	L	89	706	445	119	138	4	0	
1	M	89	706	445	119	138	4	0	
1	N	89	706	445	119	138	4	0	
1	O	89	706	445	119	138	4	0	

## 4 Residue-property plots [i](#)

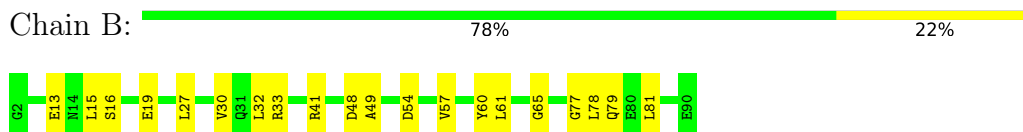
### 4.1 Average score per residue in the NMR ensemble

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.

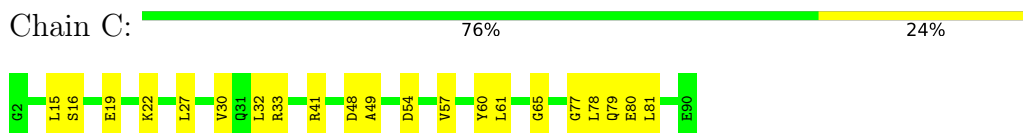
- Molecule 1: Apoptosis-associated speck-like protein



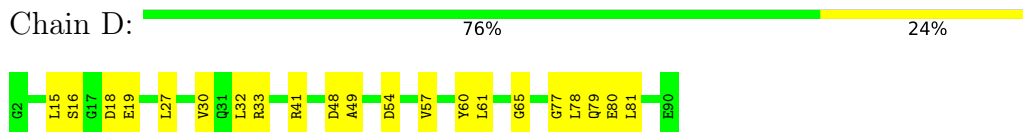
- Molecule 1: Apoptosis-associated speck-like protein



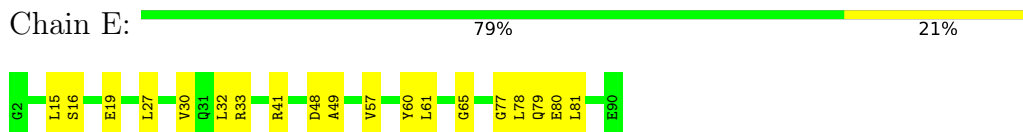
- Molecule 1: Apoptosis-associated speck-like protein




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Chain F:  80% 20%




- Molecule 1: Apoptosis-associated speck-like protein

Chain G:  78% 22%



- Molecule 1: Apoptosis-associated speck-like protein

Chain H:  79% 21%




- Molecule 1: Apoptosis-associated speck-like protein

Chain I:  76% 24%



- Molecule 1: Apoptosis-associated speck-like protein

Chain J:  79% 21%



- Molecule 1: Apoptosis-associated speck-like protein

Chain K:  80% 20%




- Molecule 1: Apoptosis-associated speck-like protein

Chain L:  76% 24%

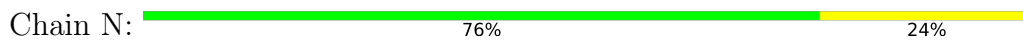


- Molecule 1: Apoptosis-associated speck-like protein

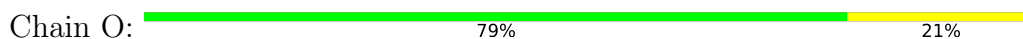
Chain M:  76% 24%



- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

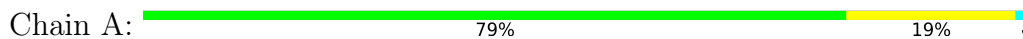


## 4.2 Scores per residue for each member of the ensemble

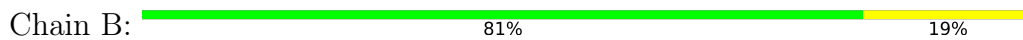
Colouring as in section 4.1 above.

### 4.2.1 Score per residue for model 1 (medoid)

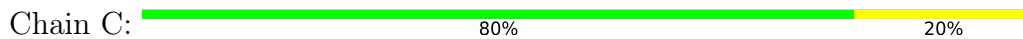
- Molecule 1: Apoptosis-associated speck-like protein



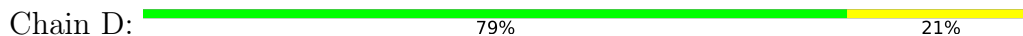
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



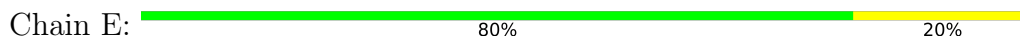
- Molecule 1: Apoptosis-associated speck-like protein



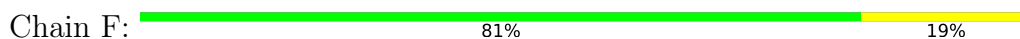




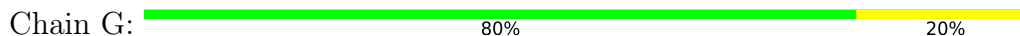
- Molecule 1: Apoptosis-associated speck-like protein



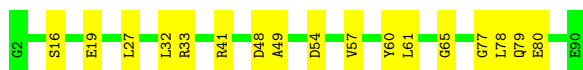
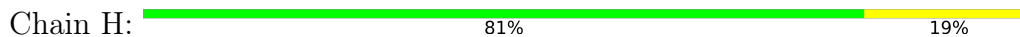
- Molecule 1: Apoptosis-associated speck-like protein



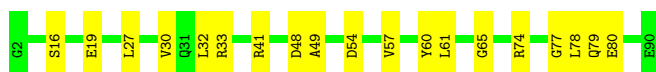
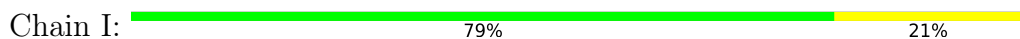
- Molecule 1: Apoptosis-associated speck-like protein



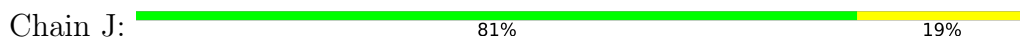
- Molecule 1: Apoptosis-associated speck-like protein



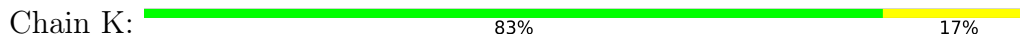
- Molecule 1: Apoptosis-associated speck-like protein



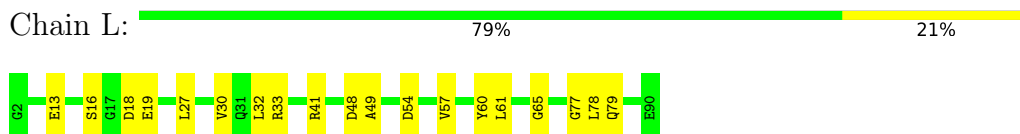
- Molecule 1: Apoptosis-associated speck-like protein



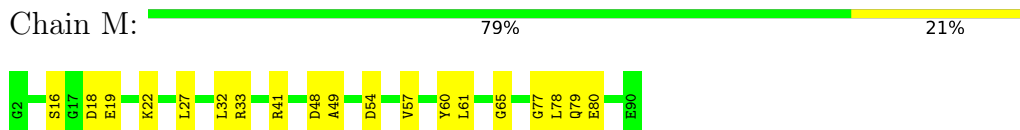
- Molecule 1: Apoptosis-associated speck-like protein



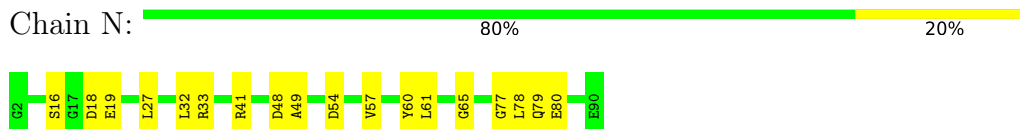
- Molecule 1: Apoptosis-associated speck-like protein



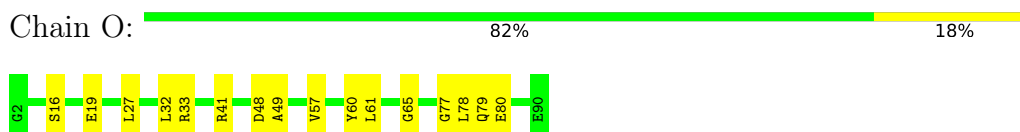
- Molecule 1: Apoptosis-associated speck-like protein



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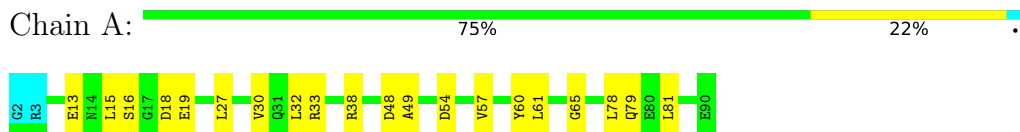


- Molecule 1: Apoptosis-associated speck-like protein

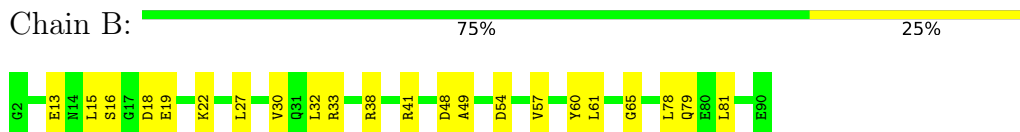


#### 4.2.2 Score per residue for model 2

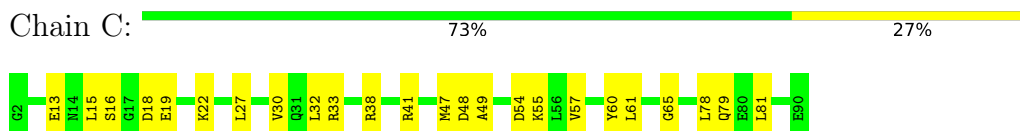
- Molecule 1: Apoptosis-associated speck-like protein



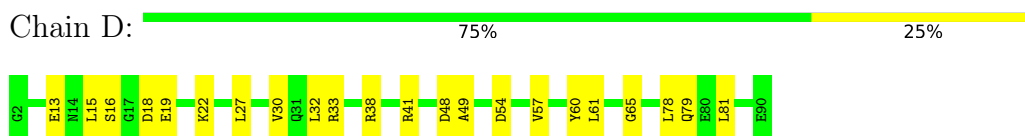
- Molecule 1: Apoptosis-associated speck-like protein



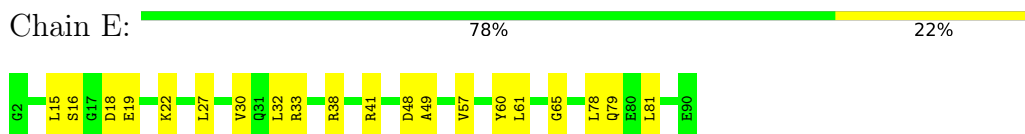
- Molecule 1: Apoptosis-associated speck-like protein



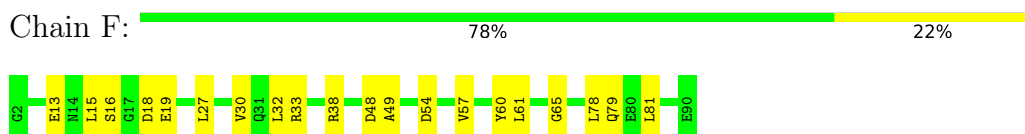
- Molecule 1: Apoptosis-associated speck-like protein



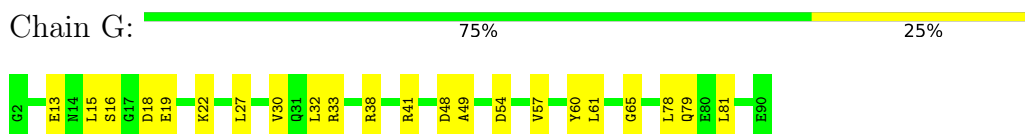
- Molecule 1: Apoptosis-associated speck-like protein



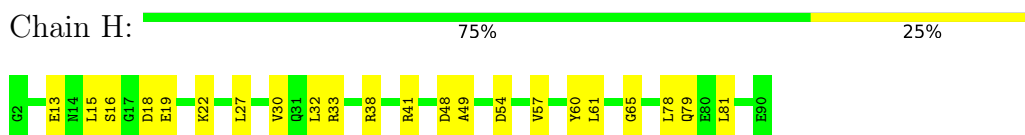
- Molecule 1: Apoptosis-associated speck-like protein



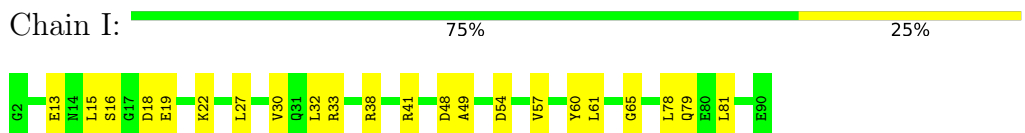
- Molecule 1: Apoptosis-associated speck-like protein



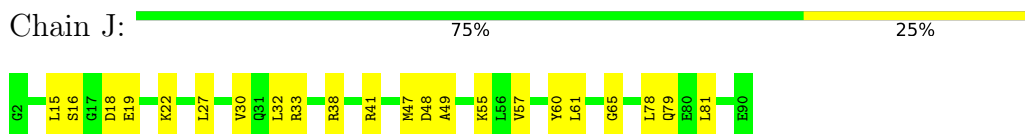
- Molecule 1: Apoptosis-associated speck-like protein



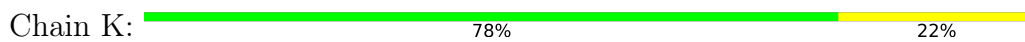
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



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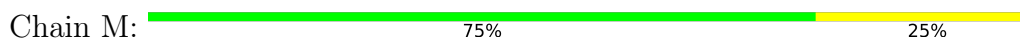




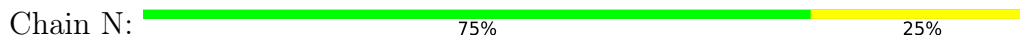
- Molecule 1: Apoptosis-associated speck-like protein



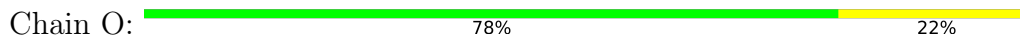
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

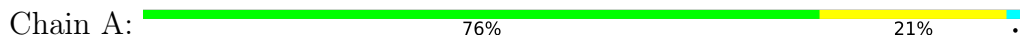


- Molecule 1: Apoptosis-associated speck-like protein



#### 4.2.3 Score per residue for model 3

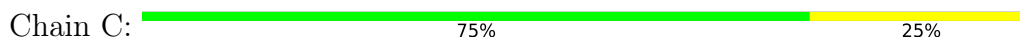
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

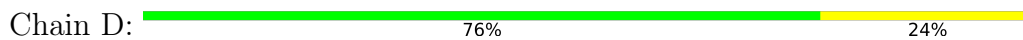


- Molecule 1: Apoptosis-associated speck-like protein

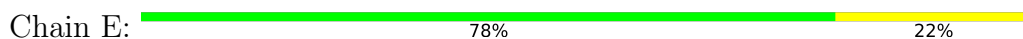




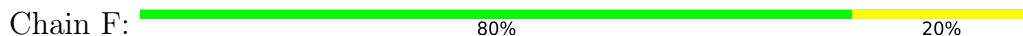
- Molecule 1: Apoptosis-associated speck-like protein



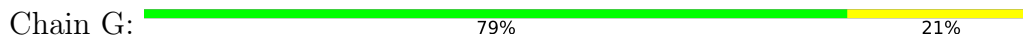
- Molecule 1: Apoptosis-associated speck-like protein



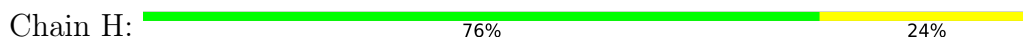
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



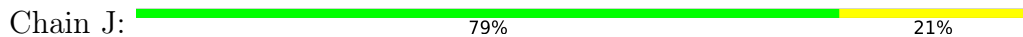
- Molecule 1: Apoptosis-associated speck-like protein



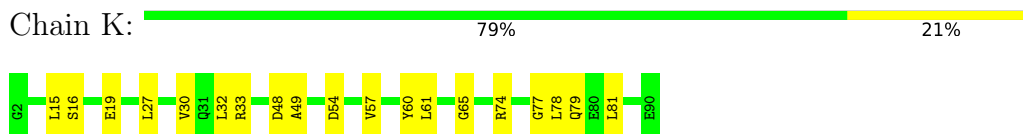
- Molecule 1: Apoptosis-associated speck-like protein



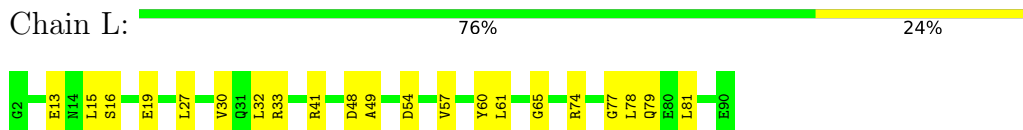
- Molecule 1: Apoptosis-associated speck-like protein



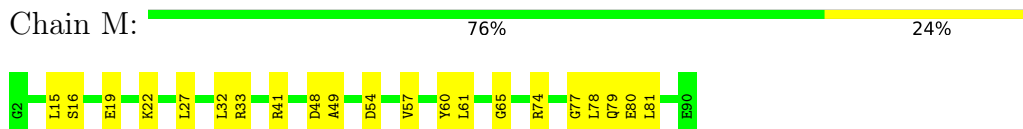
- Molecule 1: Apoptosis-associated speck-like protein



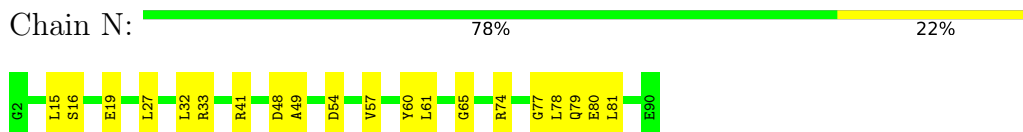
- Molecule 1: Apoptosis-associated speck-like protein



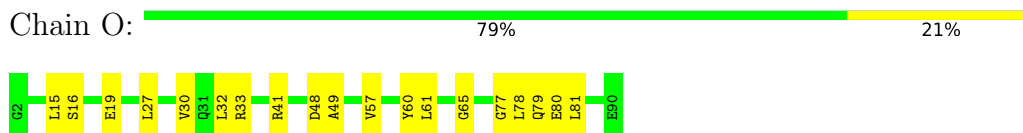
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

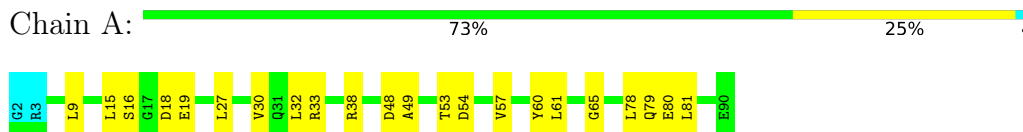


- Molecule 1: Apoptosis-associated speck-like protein

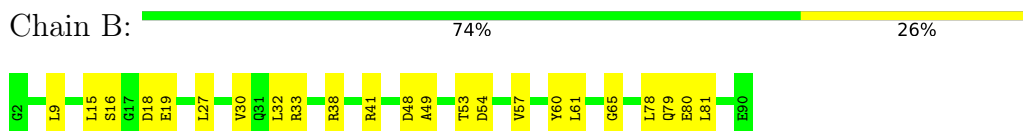


#### 4.2.4 Score per residue for model 4

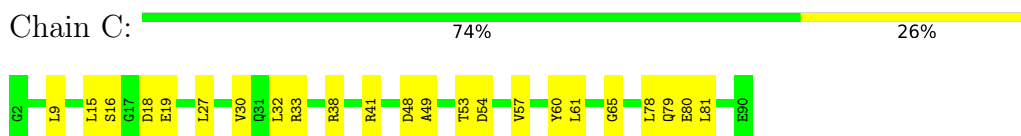
- Molecule 1: Apoptosis-associated speck-like protein



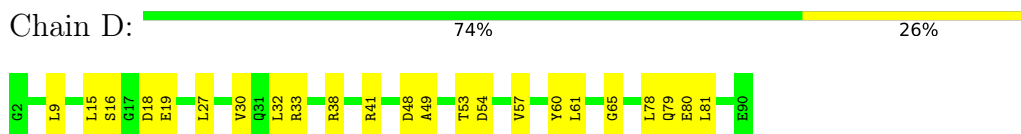
- Molecule 1: Apoptosis-associated speck-like protein



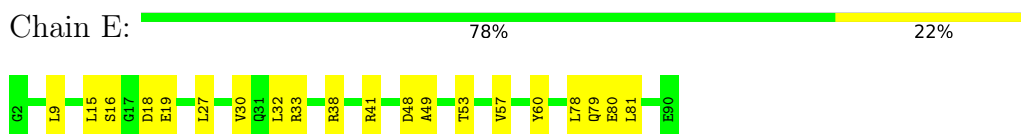
- Molecule 1: Apoptosis-associated speck-like protein



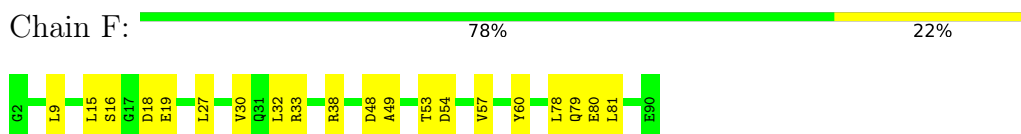
- Molecule 1: Apoptosis-associated speck-like protein



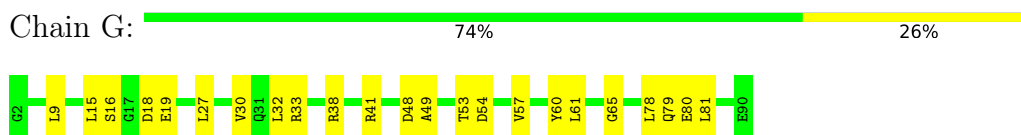
- Molecule 1: Apoptosis-associated speck-like protein



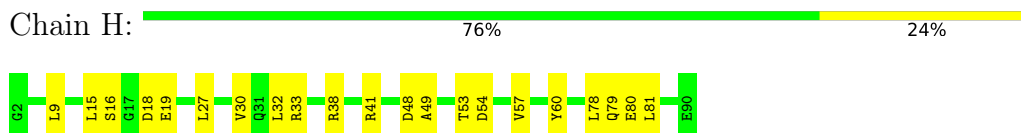
- Molecule 1: Apoptosis-associated speck-like protein



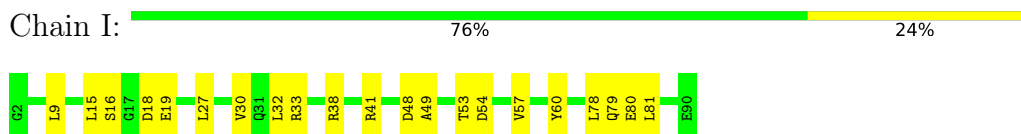
- Molecule 1: Apoptosis-associated speck-like protein



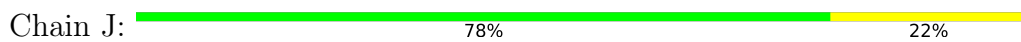
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

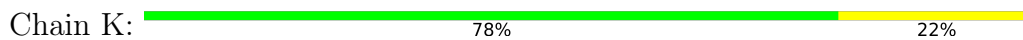


- Molecule 1: Apoptosis-associated speck-like protein

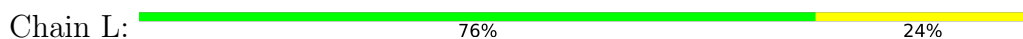




- Molecule 1: Apoptosis-associated speck-like protein



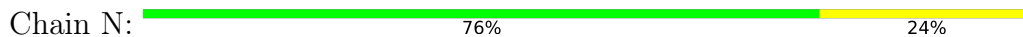
- Molecule 1: Apoptosis-associated speck-like protein



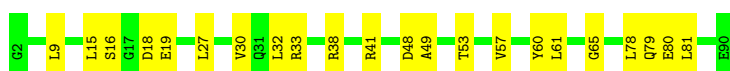
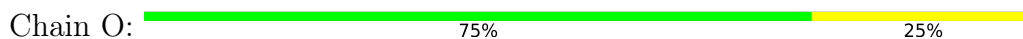
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



#### 4.2.5 Score per residue for model 5

- Molecule 1: Apoptosis-associated speck-like protein



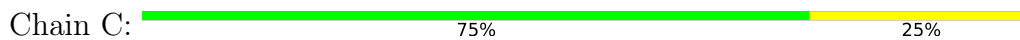
- Molecule 1: Apoptosis-associated speck-like protein



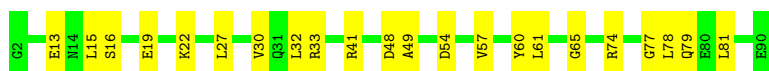
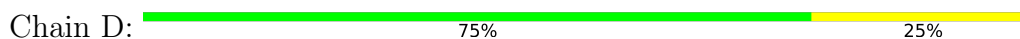




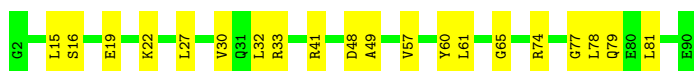
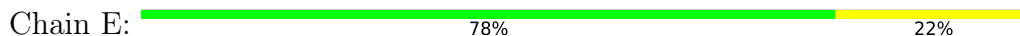
- Molecule 1: Apoptosis-associated speck-like protein



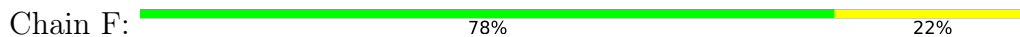
- Molecule 1: Apoptosis-associated speck-like protein



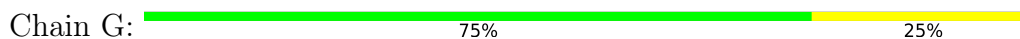
- Molecule 1: Apoptosis-associated speck-like protein



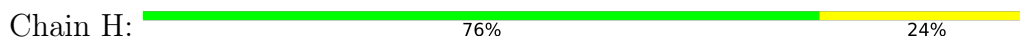
- Molecule 1: Apoptosis-associated speck-like protein



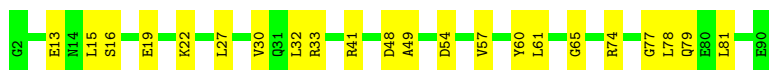
- Molecule 1: Apoptosis-associated speck-like protein



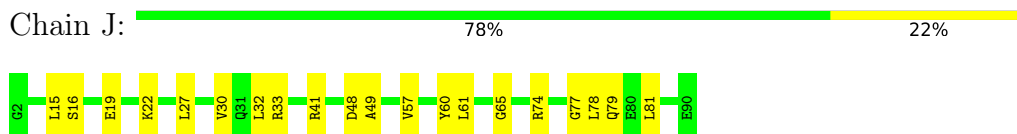
- Molecule 1: Apoptosis-associated speck-like protein



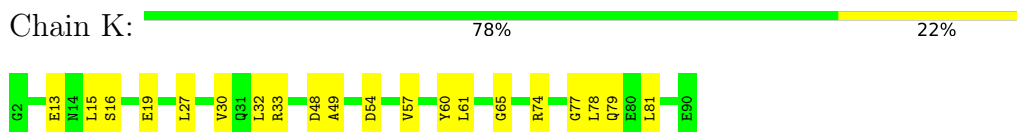
- Molecule 1: Apoptosis-associated speck-like protein



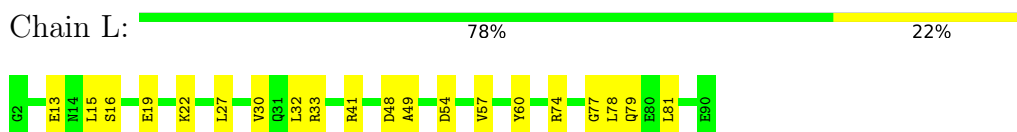
- Molecule 1: Apoptosis-associated speck-like protein



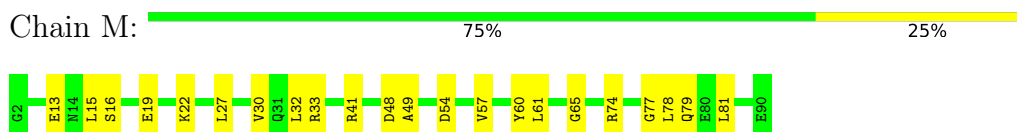
- Molecule 1: Apoptosis-associated speck-like protein



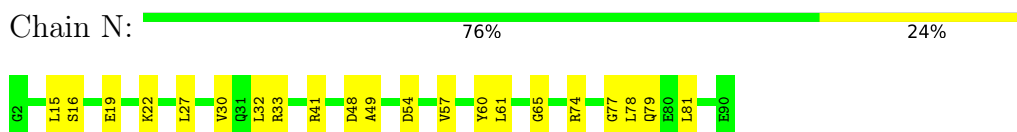
- Molecule 1: Apoptosis-associated speck-like protein



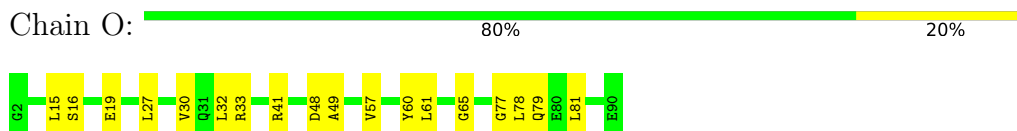
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

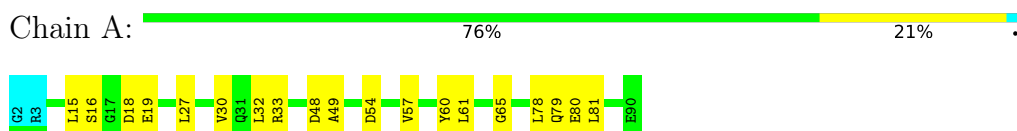


- Molecule 1: Apoptosis-associated speck-like protein

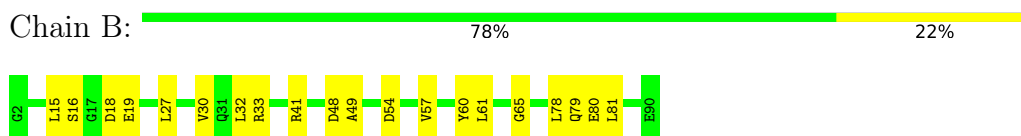


### 4.2.6 Score per residue for model 6

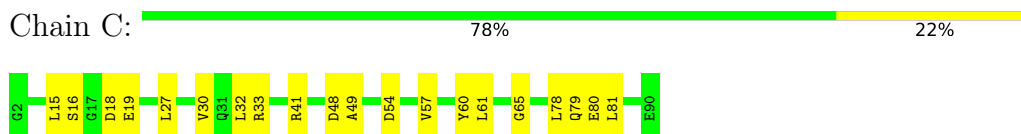
- Molecule 1: Apoptosis-associated speck-like protein



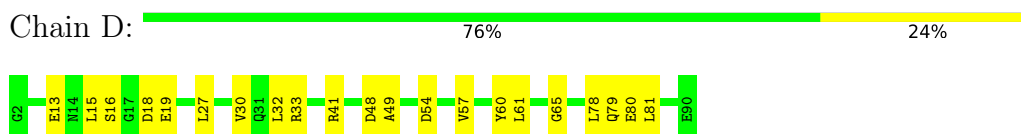
• Molecule 1: Apoptosis-associated speck-like protein



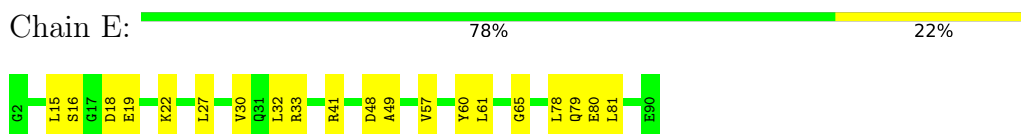
• Molecule 1: Apoptosis-associated speck-like protein



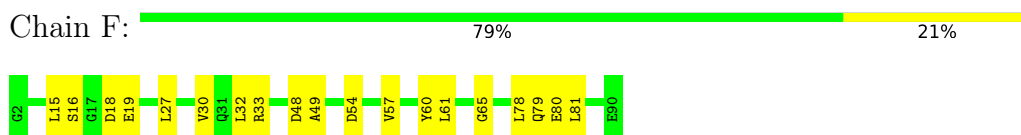
• Molecule 1: Apoptosis-associated speck-like protein



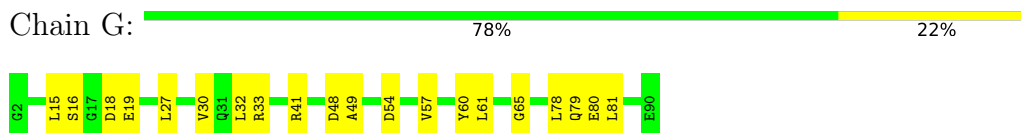
• Molecule 1: Apoptosis-associated speck-like protein



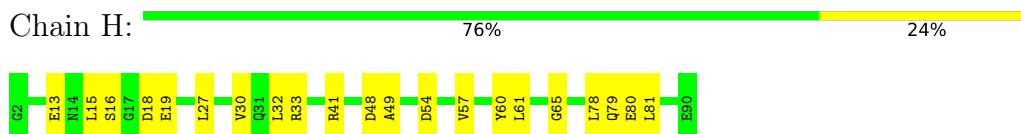
• Molecule 1: Apoptosis-associated speck-like protein



• Molecule 1: Apoptosis-associated speck-like protein



• Molecule 1: Apoptosis-associated speck-like protein

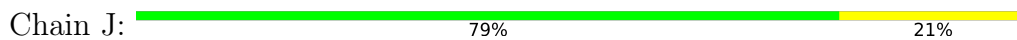


• Molecule 1: Apoptosis-associated speck-like protein

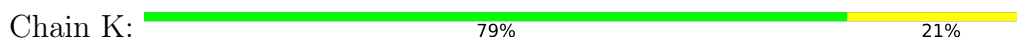




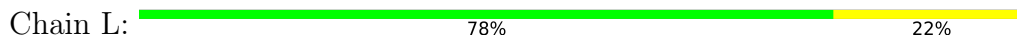
- Molecule 1: Apoptosis-associated speck-like protein



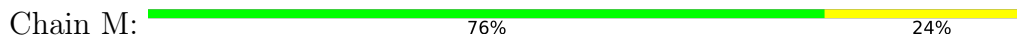
- Molecule 1: Apoptosis-associated speck-like protein



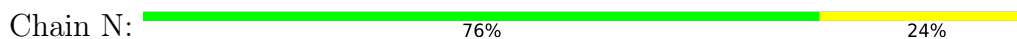
- Molecule 1: Apoptosis-associated speck-like protein



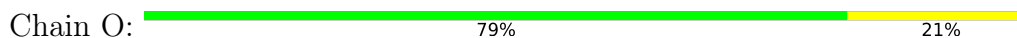
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

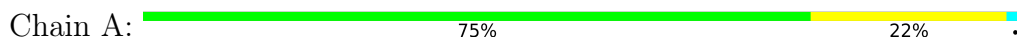


- Molecule 1: Apoptosis-associated speck-like protein



#### 4.2.7 Score per residue for model 7

- Molecule 1: Apoptosis-associated speck-like protein





- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



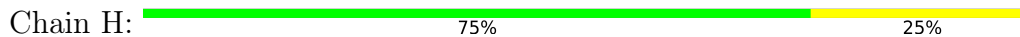
- Molecule 1: Apoptosis-associated speck-like protein



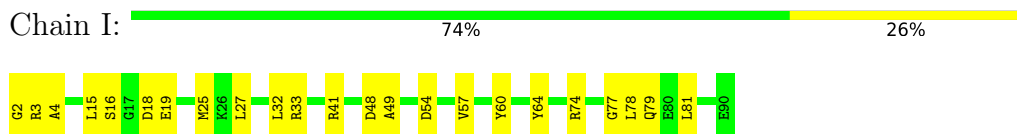
- Molecule 1: Apoptosis-associated speck-like protein



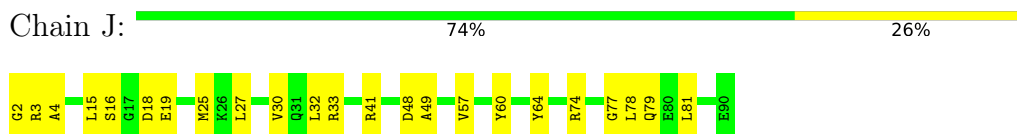
- Molecule 1: Apoptosis-associated speck-like protein



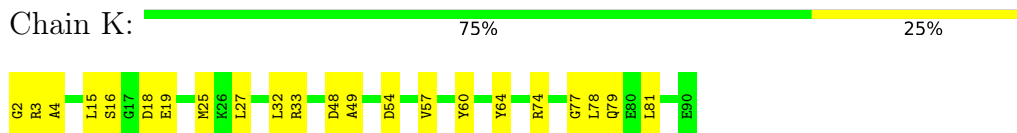
- Molecule 1: Apoptosis-associated speck-like protein



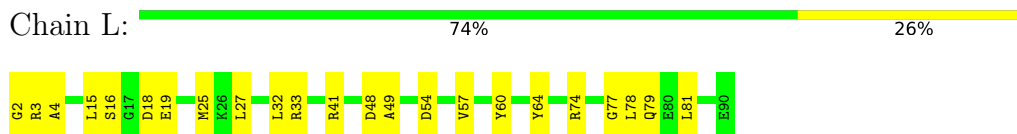
- Molecule 1: Apoptosis-associated speck-like protein



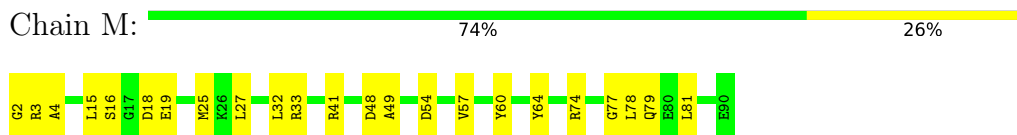
- Molecule 1: Apoptosis-associated speck-like protein



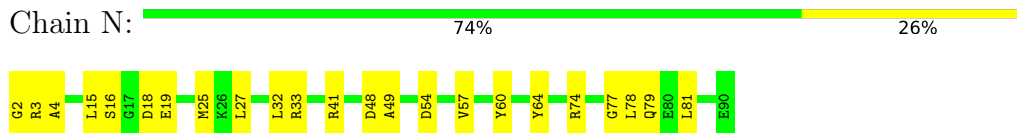
- Molecule 1: Apoptosis-associated speck-like protein



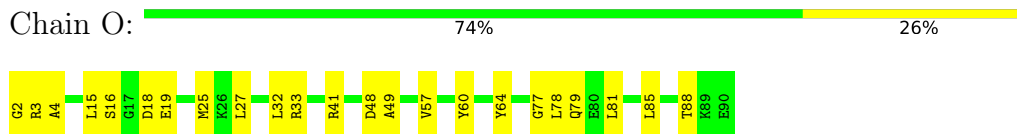
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

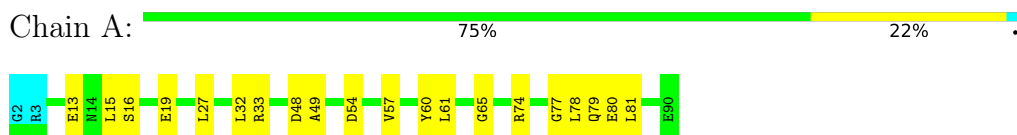


- Molecule 1: Apoptosis-associated speck-like protein

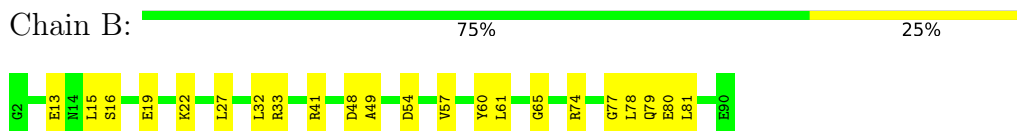


### 4.2.8 Score per residue for model 8

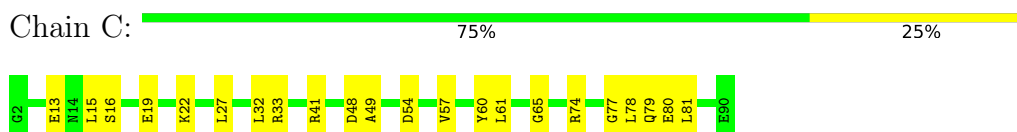
- Molecule 1: Apoptosis-associated speck-like protein



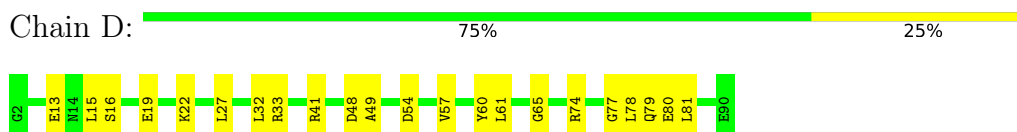
- Molecule 1: Apoptosis-associated speck-like protein



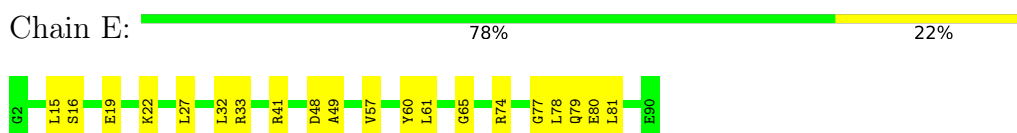
- Molecule 1: Apoptosis-associated speck-like protein



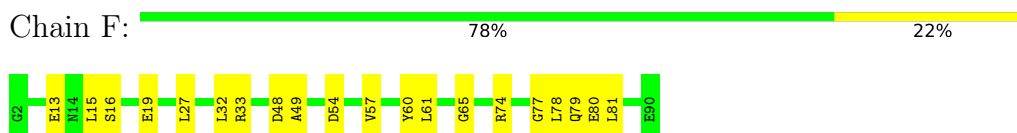
- Molecule 1: Apoptosis-associated speck-like protein



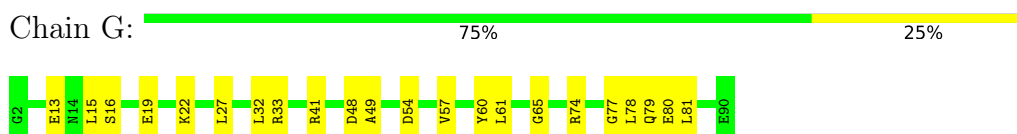
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

Chain H:  75% 25%



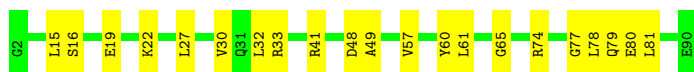
- Molecule 1: Apoptosis-associated speck-like protein

Chain I:  75% 25%




- Molecule 1: Apoptosis-associated speck-like protein

Chain J:  76% 24%



- Molecule 1: Apoptosis-associated speck-like protein

Chain K:  78% 22%




- Molecule 1: Apoptosis-associated speck-like protein

Chain L:  75% 25%



- Molecule 1: Apoptosis-associated speck-like protein

Chain M:  75% 25%




- Molecule 1: Apoptosis-associated speck-like protein

Chain N:  75% 25%



- Molecule 1: Apoptosis-associated speck-like protein

Chain O:  78% 22%





#### 4.2.9 Score per residue for model 9

- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



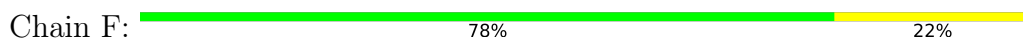
- Molecule 1: Apoptosis-associated speck-like protein



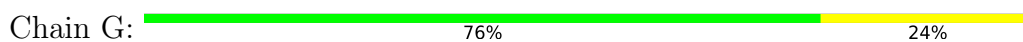
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

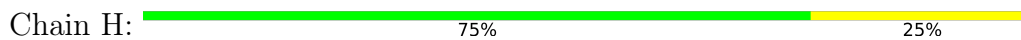


- Molecule 1: Apoptosis-associated speck-like protein





- Molecule 1: Apoptosis-associated speck-like protein



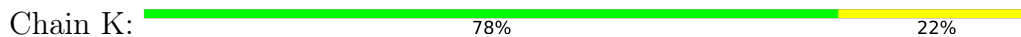
- Molecule 1: Apoptosis-associated speck-like protein



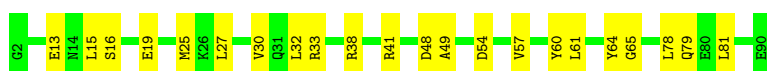
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein



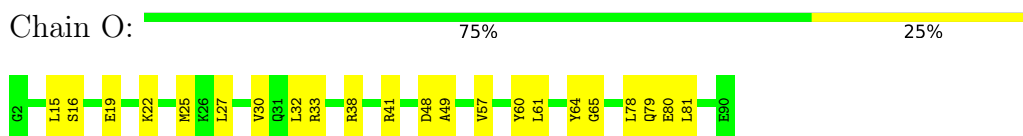
- Molecule 1: Apoptosis-associated speck-like protein



- Molecule 1: Apoptosis-associated speck-like protein

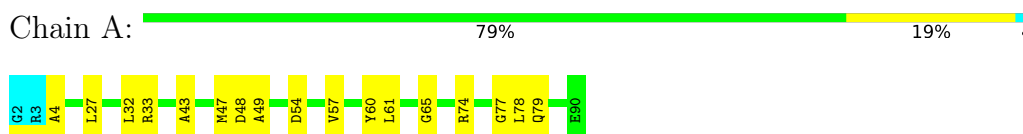


- Molecule 1: Apoptosis-associated speck-like protein

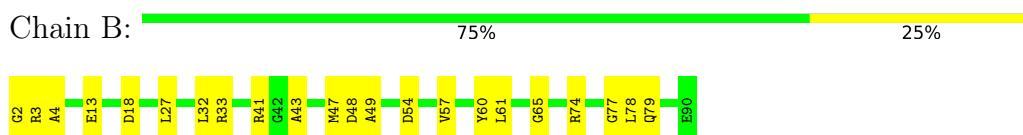


#### 4.2.10 Score per residue for model 10

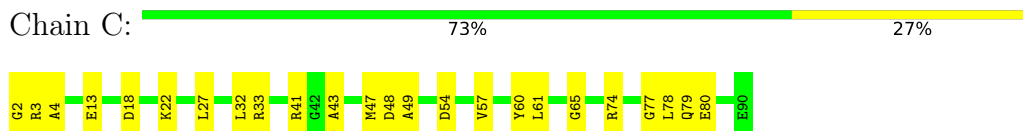
- Molecule 1: Apoptosis-associated speck-like protein



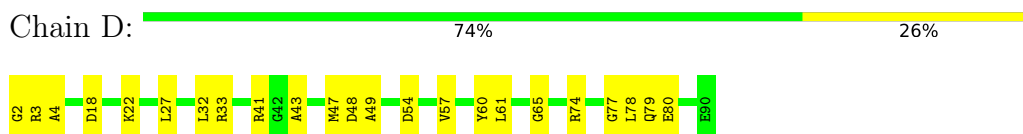
- Molecule 1: Apoptosis-associated speck-like protein



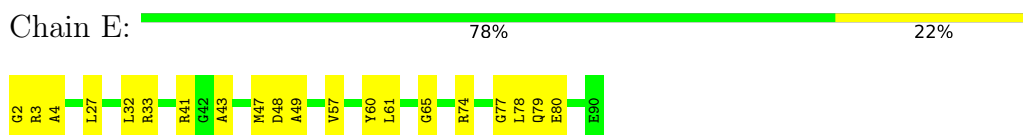
- Molecule 1: Apoptosis-associated speck-like protein



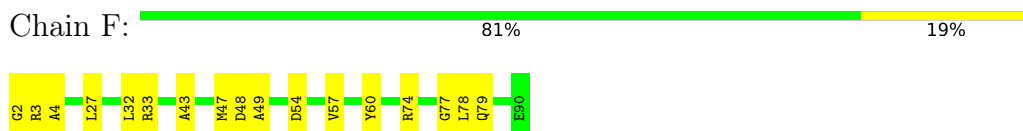
- Molecule 1: Apoptosis-associated speck-like protein



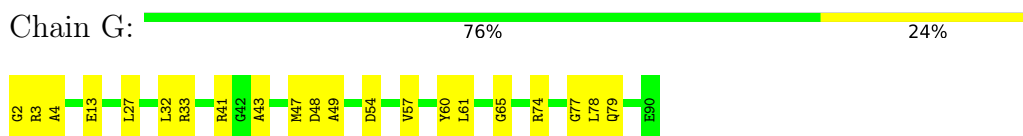
- Molecule 1: Apoptosis-associated speck-like protein



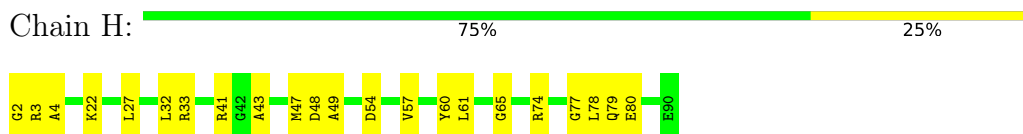
- Molecule 1: Apoptosis-associated speck-like protein



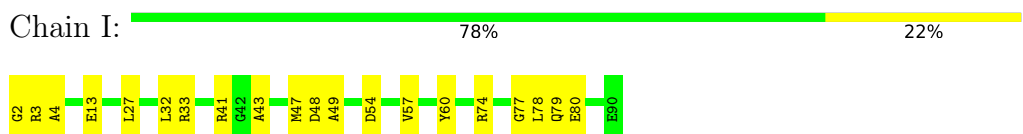
• Molecule 1: Apoptosis-associated speck-like protein



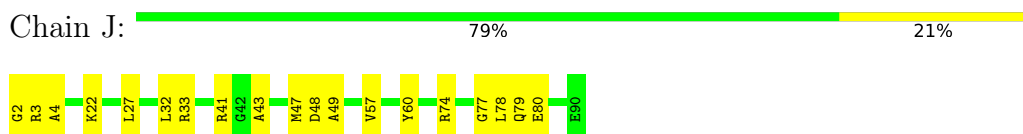
• Molecule 1: Apoptosis-associated speck-like protein



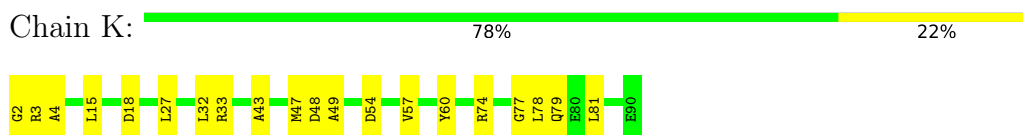
• Molecule 1: Apoptosis-associated speck-like protein



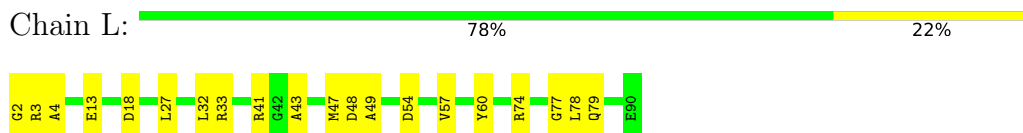
• Molecule 1: Apoptosis-associated speck-like protein



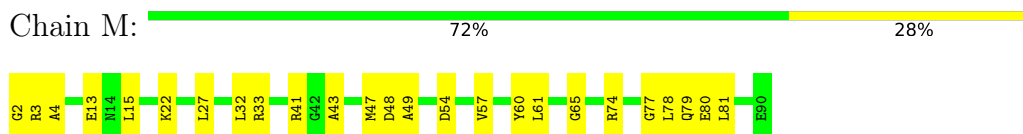
• Molecule 1: Apoptosis-associated speck-like protein



• Molecule 1: Apoptosis-associated speck-like protein

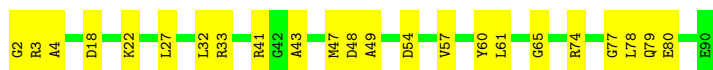


• Molecule 1: Apoptosis-associated speck-like protein



• Molecule 1: Apoptosis-associated speck-like protein





- Molecule 1: Apoptosis-associated speck-like protein

Chain O: 78% 22%



## 5 Refinement protocol and experimental data overview

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

Of the 100 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 solution	
XPLOR-NIH	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	484
Number of shifts mapped to atoms	484
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	3%

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	691	0	716	23±3
1	B	706	0	731	27±3
1	C	706	0	731	28±2
1	D	706	0	731	26±2
1	E	706	0	731	23±2
1	F	706	0	731	23±2
1	G	706	0	731	26±2
1	H	706	0	731	26±2
1	I	706	0	731	26±2
1	J	706	0	731	24±2
1	K	706	0	731	25±2
1	L	706	0	731	26±2
1	M	706	0	731	26±2
1	N	706	0	731	25±2
1	O	706	0	731	24±3
All	All	105750	0	109500	3487

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:L:54:ASP:OD2	1:M:41:ARG:NH2	1.30	1.65	5	4
1:F:54:ASP:OD2	1:G:41:ARG:NH2	1.29	1.66	5	4
1:M:54:ASP:OD2	1:N:41:ARG:NH2	1.28	1.63	5	4
1:A:54:ASP:OD2	1:B:41:ARG:NH2	1.28	1.66	5	5
1:C:54:ASP:OD2	1:D:41:ARG:NH2	1.28	1.67	5	4
1:D:54:ASP:OD2	1:E:41:ARG:NH2	1.26	1.67	5	5
1:G:54:ASP:OD2	1:H:41:ARG:NH2	1.26	1.68	5	4
1:H:54:ASP:OD2	1:I:41:ARG:NH2	1.25	1.66	5	5
1:K:54:ASP:OD2	1:L:41:ARG:NH2	1.25	1.66	5	4
1:N:54:ASP:OD2	1:O:41:ARG:NH2	1.24	1.71	5	4
1:B:54:ASP:OD2	1:C:41:ARG:NH2	1.24	1.70	5	4
1:I:54:ASP:OD2	1:J:41:ARG:NH2	1.24	1.68	5	4
1:D:54:ASP:OD1	1:E:41:ARG:NH2	1.11	1.84	4	5
1:L:54:ASP:OD1	1:M:41:ARG:NH2	1.10	1.85	4	5
1:I:54:ASP:OD1	1:J:41:ARG:NH2	1.08	1.86	4	5
1:B:13:GLU:OE2	1:C:22:LYS:NZ	1.07	1.87	8	1
1:I:13:GLU:OE2	1:J:22:LYS:NZ	1.06	1.88	8	1
1:N:13:GLU:OE2	1:O:22:LYS:NZ	1.06	1.88	8	1
1:D:13:GLU:OE2	1:E:22:LYS:NZ	1.06	1.89	8	1
1:H:13:GLU:OE2	1:I:22:LYS:NZ	1.06	1.89	8	1
1:G:54:ASP:OD1	1:H:41:ARG:NH2	1.05	1.89	4	5
1:G:13:GLU:OE2	1:H:22:LYS:NZ	1.05	1.89	8	1
1:L:13:GLU:OE2	1:M:22:LYS:NZ	1.05	1.89	8	1
1:C:13:GLU:OE2	1:D:22:LYS:NZ	1.05	1.89	8	1
1:F:54:ASP:OD1	1:G:41:ARG:NH2	1.05	1.88	4	5
1:M:54:ASP:OD1	1:N:41:ARG:NH2	1.05	1.89	4	5
1:A:13:GLU:OE2	1:B:22:LYS:NZ	1.04	1.90	8	1
1:B:54:ASP:OD1	1:C:41:ARG:NH2	1.04	1.91	4	5
1:H:54:ASP:OD1	1:I:41:ARG:NH2	1.04	1.89	4	5
1:C:54:ASP:OD1	1:D:41:ARG:NH2	1.04	1.90	4	5
1:A:54:ASP:OD1	1:B:41:ARG:NH2	1.04	1.90	4	5
1:M:13:GLU:OE2	1:N:22:LYS:NZ	1.04	1.90	8	1
1:K:54:ASP:OD1	1:L:41:ARG:NH2	1.03	1.90	8	5
1:K:13:GLU:OE2	1:L:22:LYS:NZ	1.03	1.92	8	1
1:F:13:GLU:OE2	1:G:22:LYS:NZ	1.02	1.92	8	1
1:N:54:ASP:OD1	1:O:41:ARG:NH2	1.01	1.90	4	5
1:E:16:SER:HB3	1:E:19:GLU:OE1	0.84	1.72	2	2
1:L:16:SER:HB3	1:L:19:GLU:OE1	0.84	1.72	2	2
1:D:16:SER:HB3	1:D:19:GLU:OE1	0.84	1.72	2	2
1:F:16:SER:HB3	1:F:19:GLU:OE1	0.84	1.72	2	2
1:M:16:SER:HB3	1:M:19:GLU:OE1	0.84	1.73	2	2
1:L:16:SER:HB2	1:L:19:GLU:OE1	0.84	1.73	9	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:K:16:SER:HB3	1:K:19:GLU:OE1	0.84	1.73	5	2
1:N:16:SER:HB3	1:N:19:GLU:OE1	0.84	1.73	2	2
1:E:16:SER:HB2	1:E:19:GLU:OE1	0.84	1.73	9	7
1:D:16:SER:HB2	1:D:19:GLU:OE1	0.84	1.73	9	7
1:F:16:SER:HB2	1:F:19:GLU:OE1	0.84	1.73	9	7
1:B:16:SER:HB3	1:B:19:GLU:OE1	0.84	1.73	5	2
1:M:16:SER:HB2	1:M:19:GLU:OE1	0.83	1.73	9	7
1:C:16:SER:HB3	1:C:19:GLU:OE1	0.83	1.73	5	2
1:G:16:SER:HB3	1:G:19:GLU:OE1	0.83	1.72	2	2
1:J:16:SER:HB3	1:J:19:GLU:OE1	0.83	1.72	2	2
1:A:16:SER:HB3	1:A:19:GLU:OE1	0.83	1.73	5	2
1:K:16:SER:HB2	1:K:19:GLU:OE1	0.83	1.73	9	7
1:N:16:SER:HB2	1:N:19:GLU:OE1	0.83	1.73	9	7
1:I:16:SER:HB3	1:I:19:GLU:OE1	0.83	1.72	2	2
1:B:16:SER:HB2	1:B:19:GLU:OE1	0.83	1.73	9	7
1:C:16:SER:HB2	1:C:19:GLU:OE1	0.83	1.73	9	7
1:G:16:SER:HB2	1:G:19:GLU:OE1	0.83	1.73	9	7
1:O:16:SER:HB3	1:O:19:GLU:OE1	0.82	1.72	2	2
1:H:16:SER:HB3	1:H:19:GLU:OE1	0.82	1.73	2	2
1:J:16:SER:HB2	1:J:19:GLU:OE1	0.82	1.73	9	7
1:I:16:SER:HB2	1:I:19:GLU:OE1	0.82	1.73	9	7
1:A:16:SER:HB2	1:A:19:GLU:OE1	0.82	1.73	9	7
1:H:16:SER:HB2	1:H:19:GLU:OE1	0.82	1.73	9	7
1:O:16:SER:HB2	1:O:19:GLU:OE1	0.82	1.73	9	7
1:A:13:GLU:CD	1:B:22:LYS:NZ	0.71	2.44	8	1
1:C:13:GLU:CD	1:D:22:LYS:NZ	0.71	2.44	8	1
1:D:13:GLU:CD	1:E:22:LYS:NZ	0.70	2.44	8	1
1:L:13:GLU:CD	1:M:22:LYS:NZ	0.70	2.44	8	1
1:N:13:GLU:CD	1:O:22:LYS:NZ	0.70	2.45	8	1
1:B:13:GLU:CD	1:C:22:LYS:NZ	0.70	2.45	8	1
1:G:13:GLU:CD	1:H:22:LYS:NZ	0.70	2.45	8	1
1:M:13:GLU:CD	1:N:22:LYS:NZ	0.70	2.45	8	1
1:I:13:GLU:CD	1:J:22:LYS:NZ	0.70	2.45	8	1
1:H:13:GLU:CD	1:I:22:LYS:NZ	0.69	2.46	8	1
1:K:32:LEU:C	1:K:32:LEU:HD12	0.69	2.08	4	10
1:C:32:LEU:C	1:C:32:LEU:HD12	0.69	2.08	4	10
1:K:13:GLU:CD	1:L:22:LYS:NZ	0.69	2.46	8	1
1:L:32:LEU:HD12	1:L:32:LEU:C	0.69	2.08	4	10
1:B:32:LEU:HD12	1:B:32:LEU:C	0.69	2.08	4	10
1:F:32:LEU:CD1	1:F:33:ARG:O	0.69	2.41	5	10
1:J:32:LEU:CD1	1:J:33:ARG:O	0.69	2.41	5	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:32:LEU:C	1:D:32:LEU:HD12	0.69	2.08	4	10
1:I:32:LEU:C	1:I:32:LEU:HD12	0.69	2.08	4	10
1:E:32:LEU:CD1	1:E:33:ARG:O	0.68	2.41	5	10
1:J:32:LEU:HD12	1:J:32:LEU:C	0.68	2.08	9	10
1:K:32:LEU:CD1	1:K:33:ARG:O	0.68	2.41	5	10
1:E:32:LEU:HD12	1:E:32:LEU:C	0.68	2.08	9	10
1:L:32:LEU:CD1	1:L:33:ARG:O	0.68	2.41	5	10
1:M:32:LEU:C	1:M:32:LEU:HD12	0.68	2.08	4	10
1:N:32:LEU:C	1:N:32:LEU:HD12	0.68	2.08	7	10
1:I:32:LEU:CD1	1:I:33:ARG:O	0.68	2.41	5	10
1:O:32:LEU:C	1:O:32:LEU:HD12	0.68	2.08	7	10
1:D:32:LEU:CD1	1:D:33:ARG:O	0.68	2.41	5	10
1:G:32:LEU:CD1	1:G:33:ARG:O	0.68	2.41	5	10
1:O:32:LEU:CD1	1:O:33:ARG:O	0.68	2.41	5	10
1:M:61:LEU:N	1:M:61:LEU:HD12	0.68	2.03	3	1
1:A:32:LEU:CD1	1:A:33:ARG:O	0.68	2.41	5	10
1:O:61:LEU:HD12	1:O:61:LEU:N	0.68	2.03	3	1
1:H:32:LEU:C	1:H:32:LEU:HD12	0.68	2.08	4	10
1:A:61:LEU:N	1:A:61:LEU:HD12	0.68	2.03	3	1
1:H:61:LEU:N	1:H:61:LEU:HD12	0.68	2.03	3	1
1:J:61:LEU:HD12	1:J:61:LEU:N	0.68	2.03	3	1
1:A:32:LEU:C	1:A:32:LEU:HD12	0.68	2.08	7	10
1:C:32:LEU:CD1	1:C:33:ARG:O	0.68	2.41	5	10
1:M:32:LEU:CD1	1:M:33:ARG:O	0.68	2.41	5	10
1:B:32:LEU:CD1	1:B:33:ARG:O	0.68	2.41	5	10
1:G:32:LEU:HD12	1:G:32:LEU:C	0.68	2.08	4	10
1:B:61:LEU:HD12	1:B:61:LEU:N	0.68	2.03	3	1
1:K:61:LEU:N	1:K:61:LEU:HD12	0.68	2.03	3	1
1:H:32:LEU:CD1	1:H:33:ARG:O	0.67	2.41	5	10
1:N:32:LEU:CD1	1:N:33:ARG:O	0.67	2.41	5	10
1:F:61:LEU:N	1:F:61:LEU:HD12	0.67	2.03	3	1
1:C:61:LEU:N	1:C:61:LEU:HD12	0.67	2.03	3	1
1:E:61:LEU:HD12	1:E:61:LEU:N	0.67	2.03	3	1
1:N:61:LEU:N	1:N:61:LEU:HD12	0.67	2.03	3	1
1:F:32:LEU:C	1:F:32:LEU:HD12	0.67	2.08	9	10
1:D:61:LEU:N	1:D:61:LEU:HD12	0.67	2.03	3	1
1:I:61:LEU:N	1:I:61:LEU:HD12	0.67	2.03	3	1
1:G:61:LEU:HD12	1:G:61:LEU:N	0.67	2.03	3	1
1:L:61:LEU:HD12	1:L:61:LEU:N	0.67	2.03	3	1
1:J:61:LEU:HD12	1:J:61:LEU:H	0.67	1.50	3	1
1:A:61:LEU:HD12	1:A:61:LEU:H	0.67	1.50	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:F:13:GLU:CD	1:G:22:LYS:NZ	0.66	2.49	8	1
1:D:61:LEU:HD12	1:D:61:LEU:H	0.66	1.50	3	1
1:K:61:LEU:HD12	1:K:61:LEU:H	0.66	1.50	3	1
1:O:61:LEU:HD12	1:O:61:LEU:H	0.66	1.50	3	1
1:I:61:LEU:HD12	1:I:61:LEU:H	0.65	1.50	3	1
1:B:61:LEU:HD12	1:B:61:LEU:H	0.65	1.51	3	1
1:G:61:LEU:HD12	1:G:61:LEU:H	0.65	1.50	3	1
1:C:61:LEU:HD12	1:C:61:LEU:H	0.65	1.50	3	1
1:E:61:LEU:HD12	1:E:61:LEU:H	0.65	1.50	3	1
1:F:61:LEU:HD12	1:F:61:LEU:H	0.65	1.50	3	1
1:H:61:LEU:HD12	1:H:61:LEU:H	0.65	1.50	3	1
1:J:78:LEU:C	1:J:78:LEU:HD23	0.65	2.13	10	10
1:K:78:LEU:C	1:K:78:LEU:HD23	0.65	2.13	10	10
1:B:27:LEU:HD23	1:B:27:LEU:O	0.64	1.93	1	10
1:B:78:LEU:C	1:B:78:LEU:HD23	0.64	2.13	7	10
1:E:78:LEU:C	1:E:78:LEU:HD23	0.64	2.13	10	10
1:I:27:LEU:HD23	1:I:27:LEU:O	0.64	1.93	1	10
1:I:78:LEU:C	1:I:78:LEU:HD23	0.64	2.13	10	10
1:L:78:LEU:C	1:L:78:LEU:HD23	0.64	2.13	10	10
1:D:78:LEU:C	1:D:78:LEU:HD23	0.64	2.13	10	10
1:G:78:LEU:C	1:G:78:LEU:HD23	0.64	2.13	7	10
1:M:78:LEU:HD23	1:M:78:LEU:C	0.64	2.13	7	10
1:F:78:LEU:HD23	1:F:78:LEU:C	0.64	2.13	10	10
1:N:61:LEU:HD12	1:N:61:LEU:H	0.64	1.50	3	1
1:C:78:LEU:HD23	1:C:78:LEU:C	0.64	2.13	6	10
1:M:27:LEU:O	1:M:27:LEU:HD23	0.64	1.93	8	10
1:N:27:LEU:HD23	1:N:27:LEU:O	0.64	1.93	1	10
1:E:27:LEU:HD23	1:E:27:LEU:O	0.64	1.93	1	10
1:A:78:LEU:HD23	1:A:78:LEU:C	0.63	2.13	10	10
1:D:27:LEU:HD23	1:D:27:LEU:O	0.63	1.93	8	10
1:G:27:LEU:HD23	1:G:27:LEU:O	0.63	1.93	8	10
1:M:61:LEU:HD12	1:M:61:LEU:H	0.63	1.50	3	1
1:I:33:ARG:NH2	1:I:64:TYR:CD1	0.63	2.67	9	2
1:O:33:ARG:NH2	1:O:64:TYR:CD1	0.63	2.67	9	2
1:F:27:LEU:O	1:F:27:LEU:HD23	0.63	1.93	8	10
1:H:78:LEU:HD23	1:H:78:LEU:C	0.63	2.13	7	10
1:K:27:LEU:HD23	1:K:27:LEU:O	0.63	1.93	1	10
1:N:78:LEU:C	1:N:78:LEU:HD23	0.63	2.13	8	10
1:L:61:LEU:HD12	1:L:61:LEU:H	0.63	1.50	3	1
1:A:33:ARG:NH2	1:A:64:TYR:CD1	0.63	2.67	9	2
1:J:33:ARG:NH2	1:J:64:TYR:CD1	0.63	2.67	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:O:78:LEU:C	1:O:78:LEU:HD23	0.63	2.13	7	10
1:B:33:ARG:NH2	1:B:64:TYR:CD1	0.63	2.66	9	2
1:L:27:LEU:HD23	1:L:27:LEU:O	0.63	1.93	8	10
1:C:27:LEU:O	1:C:27:LEU:HD23	0.63	1.93	1	10
1:C:33:ARG:NH2	1:C:64:TYR:CD1	0.63	2.67	9	2
1:G:33:ARG:NH2	1:G:64:TYR:CD1	0.63	2.66	9	2
1:A:27:LEU:O	1:A:27:LEU:HD23	0.63	1.93	1	10
1:J:27:LEU:O	1:J:27:LEU:HD23	0.63	1.93	8	10
1:O:32:LEU:HD12	1:O:32:LEU:O	0.63	1.94	4	10
1:K:33:ARG:NH2	1:K:64:TYR:CD1	0.63	2.67	9	2
1:H:27:LEU:O	1:H:27:LEU:HD23	0.63	1.92	1	10
1:O:27:LEU:O	1:O:27:LEU:HD23	0.63	1.93	1	10
1:C:32:LEU:HD12	1:C:32:LEU:O	0.62	1.94	4	10
1:E:32:LEU:HD12	1:E:32:LEU:O	0.62	1.94	4	10
1:G:32:LEU:HD12	1:G:32:LEU:O	0.62	1.94	4	10
1:E:33:ARG:NH2	1:E:64:TYR:CD1	0.62	2.67	9	2
1:M:33:ARG:NH2	1:M:64:TYR:CD1	0.62	2.66	9	2
1:F:33:ARG:NH2	1:F:64:TYR:CD1	0.62	2.66	9	2
1:H:33:ARG:NH2	1:H:64:TYR:CD1	0.62	2.67	9	2
1:N:33:ARG:NH2	1:N:64:TYR:CD1	0.62	2.67	9	2
1:H:32:LEU:HD12	1:H:32:LEU:O	0.62	1.94	4	10
1:L:32:LEU:HD12	1:L:32:LEU:O	0.62	1.94	4	10
1:B:32:LEU:HD12	1:B:32:LEU:O	0.62	1.94	4	10
1:M:32:LEU:HD12	1:M:32:LEU:O	0.62	1.94	4	10
1:D:33:ARG:NH2	1:D:64:TYR:CD1	0.62	2.67	9	2
1:F:32:LEU:HD12	1:F:32:LEU:O	0.62	1.94	4	10
1:L:33:ARG:NH2	1:L:64:TYR:CD1	0.61	2.67	9	2
1:I:32:LEU:HD12	1:I:32:LEU:O	0.61	1.94	4	10
1:J:32:LEU:HD12	1:J:32:LEU:O	0.61	1.94	4	10
1:K:32:LEU:HD12	1:K:32:LEU:O	0.61	1.94	4	10
1:D:32:LEU:HD12	1:D:32:LEU:O	0.61	1.94	4	10
1:N:32:LEU:HD12	1:N:32:LEU:O	0.61	1.94	4	10
1:G:78:LEU:HD23	1:G:79:GLN:N	0.61	2.11	8	10
1:N:78:LEU:HD23	1:N:79:GLN:N	0.61	2.11	8	10
1:A:32:LEU:HD12	1:A:32:LEU:O	0.61	1.94	4	10
1:A:78:LEU:HD23	1:A:79:GLN:N	0.60	2.11	8	10
1:H:27:LEU:HD23	1:H:27:LEU:C	0.60	2.17	10	10
1:I:32:LEU:HD12	1:I:33:ARG:O	0.60	1.97	5	8
1:K:78:LEU:HD23	1:K:79:GLN:N	0.60	2.11	8	10
1:N:27:LEU:HD23	1:N:27:LEU:C	0.60	2.17	10	10
1:D:78:LEU:HD23	1:D:79:GLN:N	0.60	2.11	8	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:G:27:LEU:HD23	1:G:27:LEU:C	0.60	2.17	10	10
1:G:32:LEU:HD12	1:G:33:ARG:O	0.60	1.97	5	8
1:J:78:LEU:HD23	1:J:79:GLN:N	0.60	2.11	8	10
1:C:78:LEU:HD23	1:C:79:GLN:N	0.60	2.11	8	10
1:E:27:LEU:HD23	1:E:27:LEU:C	0.60	2.17	10	10
1:H:78:LEU:HD23	1:H:79:GLN:N	0.60	2.11	8	10
1:M:27:LEU:HD23	1:M:27:LEU:C	0.60	2.17	10	10
1:N:32:LEU:HD12	1:N:33:ARG:O	0.60	1.97	5	8
1:O:32:LEU:HD12	1:O:33:ARG:O	0.60	1.97	5	8
1:B:27:LEU:HD23	1:B:27:LEU:C	0.60	2.17	10	10
1:C:27:LEU:HD23	1:C:27:LEU:C	0.60	2.17	10	10
1:D:27:LEU:HD23	1:D:27:LEU:C	0.60	2.17	10	10
1:E:32:LEU:HD12	1:E:33:ARG:O	0.60	1.97	5	8
1:E:78:LEU:HD23	1:E:79:GLN:N	0.60	2.11	8	10
1:L:78:LEU:HD23	1:L:79:GLN:N	0.60	2.11	8	10
1:M:78:LEU:HD23	1:M:79:GLN:N	0.60	2.11	8	10
1:A:27:LEU:HD23	1:A:27:LEU:C	0.60	2.17	10	10
1:A:32:LEU:HD12	1:A:33:ARG:O	0.60	1.97	5	8
1:B:32:LEU:HD12	1:B:33:ARG:O	0.60	1.97	5	8
1:C:32:LEU:HD12	1:C:33:ARG:O	0.60	1.97	5	8
1:H:32:LEU:HD12	1:H:33:ARG:O	0.60	1.97	5	8
1:F:32:LEU:HD12	1:F:33:ARG:O	0.59	1.97	5	8
1:F:27:LEU:HD23	1:F:27:LEU:C	0.59	2.17	10	10
1:K:32:LEU:HD12	1:K:33:ARG:O	0.59	1.97	5	8
1:F:78:LEU:HD23	1:F:79:GLN:N	0.59	2.11	8	10
1:I:78:LEU:HD23	1:I:79:GLN:N	0.59	2.11	8	10
1:J:32:LEU:HD12	1:J:33:ARG:O	0.59	1.97	5	8
1:M:32:LEU:HD12	1:M:33:ARG:O	0.59	1.97	5	8
1:I:27:LEU:HD23	1:I:27:LEU:C	0.59	2.17	10	10
1:O:78:LEU:HD23	1:O:79:GLN:N	0.59	2.11	8	10
1:B:78:LEU:HD23	1:B:79:GLN:N	0.59	2.11	8	10
1:O:27:LEU:HD23	1:O:27:LEU:C	0.59	2.17	10	10
1:L:32:LEU:HD12	1:L:33:ARG:O	0.59	1.97	5	8
1:L:27:LEU:HD23	1:L:27:LEU:C	0.59	2.17	10	10
1:J:27:LEU:HD23	1:J:27:LEU:C	0.58	2.17	10	10
1:K:9:LEU:HD12	1:K:53:THR:HG21	0.58	1.76	4	1
1:K:27:LEU:HD23	1:K:27:LEU:C	0.58	2.17	10	10
1:J:9:LEU:HD12	1:J:53:THR:HG21	0.58	1.76	4	1
1:D:32:LEU:HD12	1:D:33:ARG:O	0.58	1.97	5	8
1:D:9:LEU:HD12	1:D:53:THR:HG21	0.58	1.76	4	1
1:L:9:LEU:HD12	1:L:53:THR:HG21	0.58	1.76	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:9:LEU:HD12	1:C:53:THR:HG21	0.58	1.76	4	1
1:I:9:LEU:HD12	1:I:53:THR:HG21	0.58	1.76	4	1
1:B:9:LEU:HD12	1:B:53:THR:HG21	0.58	1.76	4	1
1:B:33:ARG:NH2	1:B:64:TYR:CE1	0.58	2.72	9	1
1:C:33:ARG:NH2	1:C:64:TYR:CE1	0.58	2.72	9	1
1:J:33:ARG:NH2	1:J:64:TYR:CE1	0.58	2.72	9	1
1:N:33:ARG:NH2	1:N:64:TYR:CE1	0.58	2.72	9	1
1:E:9:LEU:HD12	1:E:53:THR:HG21	0.57	1.76	4	1
1:A:9:LEU:HD12	1:A:53:THR:HG21	0.57	1.76	4	1
1:A:33:ARG:NH2	1:A:64:TYR:CE1	0.57	2.72	9	1
1:G:33:ARG:NH2	1:G:64:TYR:CE1	0.57	2.72	9	1
1:L:33:ARG:NH2	1:L:64:TYR:CE1	0.57	2.72	9	1
1:O:33:ARG:NH2	1:O:64:TYR:CE1	0.57	2.72	9	1
1:H:9:LEU:HD12	1:H:53:THR:HG21	0.57	1.76	4	1
1:D:33:ARG:NH2	1:D:64:TYR:CE1	0.57	2.72	9	1
1:E:33:ARG:NH2	1:E:64:TYR:CE1	0.57	2.72	9	1
1:F:33:ARG:NH2	1:F:64:TYR:CE1	0.57	2.72	9	1
1:K:33:ARG:NH2	1:K:64:TYR:CE1	0.57	2.72	9	1
1:M:9:LEU:HD12	1:M:53:THR:HG21	0.57	1.76	4	1
1:O:9:LEU:HD12	1:O:53:THR:HG21	0.57	1.76	4	1
1:M:33:ARG:NH2	1:M:64:TYR:CE1	0.57	2.72	9	1
1:E:43:ALA:O	1:E:47:MET:HG3	0.57	2.00	10	1
1:M:43:ALA:O	1:M:47:MET:HG3	0.57	2.00	10	1
1:B:43:ALA:O	1:B:47:MET:HG3	0.57	2.00	10	1
1:I:43:ALA:O	1:I:47:MET:HG3	0.57	2.00	10	1
1:F:43:ALA:O	1:F:47:MET:HG3	0.57	2.00	10	1
1:I:33:ARG:NH2	1:I:64:TYR:CE1	0.57	2.72	9	1
1:F:9:LEU:HD12	1:F:53:THR:HG21	0.57	1.76	4	1
1:A:43:ALA:O	1:A:47:MET:HG3	0.57	2.00	10	1
1:L:43:ALA:O	1:L:47:MET:HG3	0.56	2.00	10	1
1:B:33:ARG:NH2	1:B:64:TYR:CG	0.56	2.74	7	1
1:H:33:ARG:NH2	1:H:64:TYR:CG	0.56	2.74	7	1
1:J:33:ARG:NH2	1:J:64:TYR:CG	0.56	2.74	7	1
1:G:43:ALA:O	1:G:47:MET:HG3	0.56	2.00	10	1
1:H:43:ALA:O	1:H:47:MET:HG3	0.56	2.00	10	1
1:J:43:ALA:O	1:J:47:MET:HG3	0.56	2.00	10	1
1:N:43:ALA:O	1:N:47:MET:HG3	0.56	2.00	10	1
1:O:43:ALA:O	1:O:47:MET:HG3	0.56	2.00	10	1
1:C:33:ARG:NH2	1:C:64:TYR:CG	0.56	2.74	7	1
1:G:33:ARG:NH2	1:G:64:TYR:CG	0.56	2.74	7	1
1:I:33:ARG:NH2	1:I:64:TYR:CG	0.56	2.74	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:H:33:ARG:NH2	1:H:64:TYR:CE1	0.56	2.72	9	1
1:D:43:ALA:O	1:D:47:MET:HG3	0.56	2.00	10	1
1:G:9:LEU:HD12	1:G:53:THR:HG21	0.56	1.76	4	1
1:A:33:ARG:NH2	1:A:64:TYR:CG	0.56	2.74	7	1
1:N:9:LEU:HD12	1:N:53:THR:HG21	0.56	1.76	4	1
1:O:33:ARG:NH2	1:O:64:TYR:CG	0.56	2.74	7	1
1:C:43:ALA:O	1:C:47:MET:HG3	0.56	2.00	10	1
1:K:43:ALA:O	1:K:47:MET:HG3	0.56	2.00	10	1
1:M:33:ARG:NH2	1:M:64:TYR:CG	0.56	2.74	7	1
1:G:61:LEU:O	1:G:65:GLY:N	0.56	2.39	6	9
1:E:80:GLU:OE2	1:M:57:VAL:O	0.56	2.24	6	3
1:D:33:ARG:NH2	1:D:64:TYR:CG	0.56	2.74	7	1
1:N:33:ARG:NH2	1:N:64:TYR:CG	0.56	2.74	7	1
1:D:61:LEU:O	1:D:65:GLY:N	0.56	2.39	6	9
1:M:61:LEU:O	1:M:65:GLY:N	0.56	2.39	6	9
1:F:33:ARG:NH2	1:F:64:TYR:CG	0.56	2.74	7	1
1:K:33:ARG:NH2	1:K:64:TYR:CG	0.55	2.74	7	1
1:C:61:LEU:O	1:C:65:GLY:N	0.55	2.39	6	9
1:A:61:LEU:O	1:A:65:GLY:N	0.55	2.39	6	9
1:O:61:LEU:O	1:O:65:GLY:N	0.55	2.39	6	9
1:E:33:ARG:NH2	1:E:64:TYR:CG	0.55	2.74	7	1
1:L:61:LEU:O	1:L:65:GLY:N	0.55	2.39	6	6
1:H:2:GLY:O	1:H:4:ALA:N	0.55	2.40	7	2
1:I:2:GLY:O	1:I:4:ALA:N	0.55	2.40	7	2
1:B:61:LEU:O	1:B:65:GLY:N	0.55	2.39	6	9
1:F:61:LEU:O	1:F:65:GLY:N	0.55	2.39	6	7
1:I:48:ASP:OD1	1:I:49:ALA:N	0.55	2.40	3	10
1:C:2:GLY:O	1:C:4:ALA:N	0.55	2.40	10	2
1:G:2:GLY:O	1:G:4:ALA:N	0.55	2.40	10	2
1:L:33:ARG:NH2	1:L:64:TYR:CG	0.55	2.74	7	1
1:M:2:GLY:O	1:M:4:ALA:N	0.55	2.40	7	2
1:B:48:ASP:OD1	1:B:49:ALA:N	0.55	2.40	3	10
1:H:48:ASP:OD1	1:H:49:ALA:N	0.55	2.40	4	10
1:D:2:GLY:O	1:D:4:ALA:N	0.55	2.40	7	2
1:D:54:ASP:CG	1:E:41:ARG:NH2	0.55	2.61	7	1
1:A:48:ASP:OD1	1:A:49:ALA:N	0.55	2.40	3	10
1:B:2:GLY:O	1:B:4:ALA:N	0.55	2.40	10	2
1:H:54:ASP:CG	1:I:41:ARG:NH2	0.55	2.61	7	1
1:J:48:ASP:OD1	1:J:49:ALA:N	0.54	2.40	4	10
1:J:2:GLY:O	1:J:4:ALA:N	0.54	2.40	7	2
1:F:2:GLY:O	1:F:4:ALA:N	0.54	2.40	10	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:O:2:GLY:O	1:O:4:ALA:N	0.54	2.40	10	2
1:L:61:LEU:H	1:L:61:LEU:CD1	0.54	2.15	3	1
1:M:61:LEU:H	1:M:61:LEU:CD1	0.54	2.15	3	1
1:K:2:GLY:O	1:K:4:ALA:N	0.54	2.40	7	2
1:L:2:GLY:O	1:L:4:ALA:N	0.54	2.40	10	2
1:G:48:ASP:OD1	1:G:49:ALA:N	0.54	2.40	4	10
1:N:48:ASP:OD1	1:N:49:ALA:N	0.54	2.40	4	10
1:O:48:ASP:OD1	1:O:49:ALA:N	0.54	2.40	4	10
1:G:57:VAL:O	1:N:80:GLU:OE2	0.54	2.25	6	3
1:C:48:ASP:OD1	1:C:49:ALA:N	0.54	2.40	3	10
1:D:48:ASP:OD1	1:D:49:ALA:N	0.54	2.40	3	10
1:F:48:ASP:OD1	1:F:49:ALA:N	0.54	2.40	3	10
1:E:48:ASP:OD1	1:E:49:ALA:N	0.54	2.40	3	10
1:I:61:LEU:H	1:I:61:LEU:CD1	0.54	2.15	3	1
1:E:2:GLY:O	1:E:4:ALA:N	0.54	2.40	7	2
1:N:61:LEU:O	1:N:65:GLY:N	0.54	2.39	6	8
1:N:2:GLY:O	1:N:4:ALA:N	0.54	2.40	7	2
1:E:61:LEU:O	1:E:65:GLY:N	0.54	2.39	6	8
1:K:61:LEU:O	1:K:65:GLY:N	0.54	2.39	6	7
1:A:61:LEU:H	1:A:61:LEU:CD1	0.53	2.15	3	1
1:K:48:ASP:OD1	1:K:49:ALA:N	0.53	2.40	4	10
1:A:57:VAL:O	1:H:80:GLU:OE2	0.53	2.25	6	3
1:A:54:ASP:CG	1:B:41:ARG:NH2	0.53	2.62	7	2
1:L:48:ASP:OD1	1:L:49:ALA:N	0.53	2.40	4	10
1:O:61:LEU:H	1:O:61:LEU:CD1	0.53	2.15	3	1
1:C:80:GLU:OE2	1:K:57:VAL:O	0.53	2.25	6	3
1:M:48:ASP:OD1	1:M:49:ALA:N	0.53	2.40	3	10
1:N:61:LEU:H	1:N:61:LEU:CD1	0.53	2.15	3	1
1:J:61:LEU:O	1:J:65:GLY:N	0.53	2.39	6	7
1:C:61:LEU:H	1:C:61:LEU:CD1	0.53	2.15	3	1
1:I:61:LEU:O	1:I:65:GLY:N	0.53	2.39	6	7
1:H:61:LEU:O	1:H:65:GLY:N	0.53	2.39	6	8
1:G:61:LEU:H	1:G:61:LEU:CD1	0.53	2.15	3	1
1:H:61:LEU:H	1:H:61:LEU:CD1	0.53	2.15	3	1
1:C:57:VAL:O	1:J:80:GLU:OE2	0.53	2.27	6	3
1:B:61:LEU:H	1:B:61:LEU:CD1	0.53	2.15	3	1
1:J:61:LEU:H	1:J:61:LEU:CD1	0.52	2.15	3	1
1:D:61:LEU:H	1:D:61:LEU:CD1	0.52	2.15	3	1
1:B:80:GLU:CD	1:B:80:GLU:H	0.52	2.08	8	3
1:K:61:LEU:H	1:K:61:LEU:CD1	0.52	2.15	3	1
1:D:61:LEU:N	1:D:61:LEU:CD1	0.52	2.73	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:L:61:LEU:N	1:L:61:LEU:CD1	0.52	2.73	3	1
1:J:80:GLU:CD	1:J:80:GLU:H	0.52	2.08	6	3
1:E:61:LEU:N	1:E:61:LEU:CD1	0.52	2.73	3	1
1:E:61:LEU:H	1:E:61:LEU:CD1	0.52	2.15	3	1
1:F:61:LEU:N	1:F:61:LEU:CD1	0.52	2.73	3	1
1:K:80:GLU:CD	1:K:80:GLU:H	0.52	2.08	6	3
1:I:54:ASP:CG	1:J:41:ARG:NH2	0.52	2.64	7	1
1:M:61:LEU:N	1:M:61:LEU:CD1	0.52	2.73	3	1
1:K:61:LEU:N	1:K:61:LEU:CD1	0.52	2.73	3	1
1:L:54:ASP:CG	1:M:41:ARG:NH2	0.52	2.63	7	2
1:H:80:GLU:H	1:H:80:GLU:CD	0.51	2.08	6	3
1:C:61:LEU:N	1:C:61:LEU:CD1	0.51	2.73	3	1
1:M:80:GLU:H	1:M:80:GLU:CD	0.51	2.08	8	3
1:J:61:LEU:N	1:J:61:LEU:CD1	0.51	2.73	3	1
1:D:80:GLU:CD	1:D:80:GLU:H	0.51	2.08	6	3
1:F:80:GLU:H	1:F:80:GLU:CD	0.51	2.08	6	3
1:M:54:ASP:CG	1:N:41:ARG:NH2	0.51	2.64	7	2
1:F:2:GLY:C	1:F:4:ALA:N	0.51	2.64	10	2
1:N:54:ASP:CG	1:O:41:ARG:NH2	0.51	2.64	7	1
1:F:61:LEU:H	1:F:61:LEU:CD1	0.51	2.15	3	1
1:C:80:GLU:H	1:C:80:GLU:CD	0.51	2.08	8	3
1:M:2:GLY:C	1:M:4:ALA:N	0.51	2.64	10	2
1:A:13:GLU:OE1	1:B:22:LYS:NZ	0.51	2.42	8	4
1:F:57:VAL:O	1:M:80:GLU:OE2	0.51	2.29	6	3
1:O:80:GLU:CD	1:O:80:GLU:H	0.51	2.08	8	3
1:C:54:ASP:CG	1:D:41:ARG:NH2	0.51	2.63	7	1
1:H:2:GLY:C	1:H:4:ALA:N	0.51	2.64	10	2
1:O:2:GLY:C	1:O:4:ALA:N	0.51	2.64	10	2
1:K:13:GLU:OE1	1:L:22:LYS:NZ	0.51	2.44	8	3
1:I:80:GLU:CD	1:I:80:GLU:H	0.51	2.08	8	3
1:N:80:GLU:CD	1:N:80:GLU:H	0.51	2.08	8	3
1:L:13:GLU:OE1	1:M:22:LYS:NZ	0.51	2.44	8	7
1:A:80:GLU:H	1:A:80:GLU:CD	0.51	2.08	6	3
1:K:54:ASP:CG	1:L:41:ARG:NH2	0.51	2.64	7	2
1:G:2:GLY:C	1:G:4:ALA:N	0.51	2.64	10	2
1:D:2:GLY:C	1:D:4:ALA:N	0.51	2.64	10	2
1:N:2:GLY:C	1:N:4:ALA:N	0.51	2.64	10	2
1:C:13:GLU:OE1	1:D:22:LYS:NZ	0.51	2.43	8	5
1:J:2:GLY:C	1:J:4:ALA:N	0.51	2.64	10	2
1:E:80:GLU:CD	1:E:80:GLU:H	0.50	2.08	6	3
1:D:25:MET:SD	1:D:25:MET:C	0.50	2.90	9	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:2:GLY:C	1:E:4:ALA:N	0.50	2.64	10	2
1:F:25:MET:C	1:F:25:MET:SD	0.50	2.90	9	2
1:I:25:MET:SD	1:I:25:MET:C	0.50	2.90	9	2
1:K:25:MET:C	1:K:25:MET:SD	0.50	2.90	9	2
1:M:25:MET:SD	1:M:25:MET:C	0.50	2.90	9	2
1:N:25:MET:SD	1:N:25:MET:C	0.50	2.90	9	2
1:D:80:GLU:OE2	1:L:57:VAL:O	0.50	2.29	8	3
1:B:2:GLY:C	1:B:4:ALA:N	0.50	2.64	10	2
1:E:25:MET:SD	1:E:25:MET:C	0.50	2.90	7	2
1:G:25:MET:SD	1:G:25:MET:C	0.50	2.90	9	2
1:K:2:GLY:C	1:K:4:ALA:N	0.50	2.64	10	2
1:L:2:GLY:C	1:L:4:ALA:N	0.50	2.64	10	2
1:L:25:MET:SD	1:L:25:MET:C	0.50	2.90	9	2
1:B:25:MET:SD	1:B:25:MET:C	0.50	2.90	9	2
1:A:57:VAL:O	1:A:60:TYR:O	0.50	2.30	1	10
1:A:61:LEU:N	1:A:61:LEU:CD1	0.50	2.73	3	1
1:C:25:MET:SD	1:C:25:MET:C	0.50	2.90	9	2
1:G:2:GLY:C	1:G:4:ALA:H	0.50	2.10	10	2
1:M:2:GLY:C	1:M:4:ALA:H	0.50	2.10	10	2
1:O:25:MET:SD	1:O:25:MET:C	0.50	2.90	9	2
1:I:57:VAL:O	1:I:60:TYR:O	0.50	2.30	1	10
1:M:13:GLU:OE1	1:N:22:LYS:NZ	0.50	2.44	5	6
1:L:80:GLU:CD	1:L:80:GLU:H	0.50	2.08	8	3
1:C:2:GLY:C	1:C:4:ALA:N	0.50	2.64	10	2
1:H:25:MET:SD	1:H:25:MET:C	0.50	2.90	9	2
1:I:2:GLY:C	1:I:4:ALA:N	0.50	2.64	10	2
1:J:2:GLY:C	1:J:4:ALA:H	0.50	2.10	10	2
1:B:57:VAL:O	1:B:60:TYR:O	0.50	2.30	1	10
1:H:57:VAL:O	1:H:60:TYR:O	0.50	2.30	5	10
1:O:32:LEU:C	1:O:32:LEU:CD1	0.50	2.80	4	8
1:O:57:VAL:O	1:O:60:TYR:O	0.50	2.30	1	10
1:G:80:GLU:CD	1:G:80:GLU:H	0.50	2.08	8	3
1:A:25:MET:SD	1:A:25:MET:C	0.50	2.90	9	2
1:I:2:GLY:C	1:I:4:ALA:H	0.50	2.10	10	2
1:E:2:GLY:C	1:E:4:ALA:H	0.50	2.10	10	2
1:J:25:MET:SD	1:J:25:MET:C	0.50	2.90	9	2
1:N:2:GLY:C	1:N:4:ALA:H	0.50	2.10	10	2
1:A:32:LEU:C	1:A:32:LEU:CD1	0.49	2.81	7	8
1:C:57:VAL:O	1:C:60:TYR:O	0.49	2.30	5	10
1:H:61:LEU:N	1:H:61:LEU:CD1	0.49	2.73	3	1
1:D:2:GLY:C	1:D:4:ALA:H	0.49	2.10	10	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:G:57:VAL:O	1:G:60:TYR:O	0.49	2.30	5	10
1:J:57:VAL:O	1:J:60:TYR:O	0.49	2.30	5	10
1:K:2:GLY:C	1:K:4:ALA:H	0.49	2.10	10	2
1:E:57:VAL:O	1:E:60:TYR:O	0.49	2.30	1	10
1:N:57:VAL:O	1:N:60:TYR:O	0.49	2.30	5	10
1:H:57:VAL:O	1:O:80:GLU:OE2	0.49	2.28	6	3
1:F:2:GLY:C	1:F:4:ALA:H	0.49	2.10	10	2
1:H:32:LEU:C	1:H:32:LEU:CD1	0.49	2.81	7	9
1:K:57:VAL:O	1:K:60:TYR:O	0.49	2.30	5	10
1:B:57:VAL:O	1:I:80:GLU:OE2	0.49	2.30	6	3
1:F:54:ASP:CG	1:G:41:ARG:NH2	0.49	2.66	7	1
1:H:2:GLY:C	1:H:4:ALA:H	0.49	2.10	10	2
1:O:74:ARG:O	1:O:77:GLY:N	0.49	2.45	10	2
1:L:57:VAL:O	1:L:60:TYR:O	0.49	2.30	1	10
1:M:57:VAL:O	1:M:60:TYR:O	0.49	2.30	1	10
1:L:2:GLY:C	1:L:4:ALA:H	0.49	2.10	10	2
1:D:57:VAL:O	1:D:60:TYR:O	0.49	2.30	1	10
1:F:57:VAL:O	1:F:60:TYR:O	0.49	2.30	1	10
1:O:61:LEU:N	1:O:61:LEU:CD1	0.49	2.73	3	1
1:C:80:GLU:OE2	1:K:57:VAL:HG12	0.49	2.08	3	4
1:H:74:ARG:O	1:H:77:GLY:N	0.49	2.45	10	3
1:J:74:ARG:O	1:J:77:GLY:N	0.49	2.45	10	5
1:G:32:LEU:C	1:G:32:LEU:CD1	0.49	2.80	4	9
1:C:2:GLY:C	1:C:4:ALA:H	0.49	2.10	10	2
1:O:2:GLY:C	1:O:4:ALA:H	0.49	2.11	10	2
1:B:32:LEU:C	1:B:32:LEU:CD1	0.48	2.80	4	8
1:N:13:GLU:OE1	1:O:22:LYS:NZ	0.48	2.46	8	3
1:B:2:GLY:C	1:B:4:ALA:H	0.48	2.10	10	2
1:A:74:ARG:O	1:A:77:GLY:N	0.48	2.45	10	5
1:H:32:LEU:CD1	1:H:32:LEU:C	0.48	2.82	5	1
1:C:32:LEU:C	1:C:32:LEU:CD1	0.48	2.81	7	9
1:F:77:GLY:C	1:F:79:GLN:HE21	0.48	2.12	7	5
1:G:13:GLU:OE1	1:H:22:LYS:NZ	0.48	2.45	8	4
1:C:74:ARG:O	1:C:77:GLY:N	0.48	2.45	10	5
1:O:32:LEU:CD1	1:O:32:LEU:C	0.48	2.82	5	1
1:J:32:LEU:C	1:J:32:LEU:CD1	0.48	2.81	7	9
1:M:32:LEU:C	1:M:32:LEU:CD1	0.48	2.81	7	9
1:N:32:LEU:C	1:N:32:LEU:CD1	0.48	2.80	4	9
1:K:19:GLU:OE1	1:K:19:GLU:N	0.48	2.40	7	8
1:E:77:GLY:C	1:E:79:GLN:HE21	0.48	2.12	7	5
1:G:77:GLY:C	1:G:79:GLN:HE21	0.48	2.12	7	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:H:57:VAL:HG12	1:O:80:GLU:OE2	0.48	2.09	3	4
1:B:61:LEU:N	1:B:61:LEU:CD1	0.48	2.73	3	1
1:E:32:LEU:C	1:E:32:LEU:CD1	0.48	2.81	7	3
1:I:32:LEU:C	1:I:32:LEU:CD1	0.48	2.80	4	8
1:B:54:ASP:CG	1:C:41:ARG:NH2	0.48	2.67	7	1
1:E:80:GLU:OE2	1:M:57:VAL:HG12	0.47	2.09	1	4
1:L:77:GLY:C	1:L:79:GLN:HE21	0.47	2.12	7	5
1:F:32:LEU:C	1:F:32:LEU:CD1	0.47	2.81	9	8
1:N:19:GLU:OE1	1:N:19:GLU:N	0.47	2.40	7	7
1:A:77:GLY:C	1:A:79:GLN:HE21	0.47	2.12	7	5
1:D:78:LEU:C	1:D:78:LEU:CD2	0.47	2.83	7	10
1:J:78:LEU:C	1:J:78:LEU:CD2	0.47	2.83	10	10
1:K:77:GLY:C	1:K:79:GLN:HE21	0.47	2.12	7	5
1:I:61:LEU:N	1:I:61:LEU:CD1	0.47	2.73	3	1
1:F:78:LEU:C	1:F:78:LEU:CD2	0.47	2.83	8	10
1:I:78:LEU:C	1:I:78:LEU:CD2	0.47	2.83	9	10
1:L:78:LEU:C	1:L:78:LEU:CD2	0.47	2.83	8	10
1:M:78:LEU:C	1:M:78:LEU:CD2	0.47	2.83	9	10
1:B:78:LEU:C	1:B:78:LEU:CD2	0.47	2.83	8	10
1:H:77:GLY:C	1:H:79:GLN:HE21	0.47	2.12	7	5
1:K:78:LEU:C	1:K:78:LEU:CD2	0.47	2.83	8	10
1:G:32:LEU:CD1	1:G:32:LEU:C	0.47	2.82	5	1
1:C:78:LEU:C	1:C:78:LEU:CD2	0.47	2.83	8	10
1:I:77:GLY:C	1:I:79:GLN:HE21	0.47	2.12	7	5
1:M:77:GLY:C	1:M:79:GLN:HE21	0.47	2.12	7	5
1:B:13:GLU:OE1	1:C:22:LYS:NZ	0.47	2.48	5	6
1:M:19:GLU:OE1	1:M:19:GLU:N	0.47	2.41	8	3
1:K:74:ARG:O	1:K:77:GLY:N	0.47	2.45	10	5
1:N:74:ARG:O	1:N:77:GLY:N	0.47	2.45	10	5
1:B:77:GLY:C	1:B:79:GLN:HE21	0.47	2.12	7	5
1:C:19:GLU:OE1	1:C:19:GLU:N	0.47	2.40	7	9
1:D:77:GLY:C	1:D:79:GLN:HE21	0.47	2.12	7	5
1:E:78:LEU:C	1:E:78:LEU:CD2	0.47	2.83	8	10
1:O:77:GLY:C	1:O:79:GLN:HE21	0.47	2.12	7	5
1:B:32:LEU:CD1	1:B:32:LEU:C	0.47	2.82	5	1
1:G:54:ASP:CG	1:H:41:ARG:NH2	0.47	2.68	7	1
1:A:78:LEU:C	1:A:78:LEU:CD2	0.47	2.83	8	10
1:H:78:LEU:C	1:H:78:LEU:CD2	0.47	2.83	9	10
1:F:13:GLU:OE1	1:G:22:LYS:NZ	0.47	2.48	8	3
1:D:49:ALA:O	1:D:53:THR:HG23	0.47	2.10	4	1
1:K:49:ALA:O	1:K:53:THR:HG23	0.47	2.10	4	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:57:VAL:HG12	1:I:80:GLU:OE2	0.47	2.10	3	4
1:N:77:GLY:C	1:N:79:GLN:HE21	0.47	2.12	7	5
1:C:49:ALA:O	1:C:53:THR:HG23	0.47	2.10	4	1
1:J:49:ALA:O	1:J:53:THR:HG23	0.47	2.10	4	1
1:L:49:ALA:O	1:L:53:THR:HG23	0.47	2.10	4	1
1:A:19:GLU:OE1	1:A:19:GLU:N	0.47	2.40	7	7
1:C:77:GLY:C	1:C:79:GLN:HE21	0.46	2.12	7	5
1:D:16:SER:HB2	1:D:19:GLU:CD	0.46	2.30	7	5
1:H:16:SER:HB2	1:H:19:GLU:CD	0.46	2.31	7	5
1:J:77:GLY:C	1:J:79:GLN:HE21	0.46	2.12	7	5
1:O:16:SER:HB2	1:O:19:GLU:CD	0.46	2.31	7	5
1:E:49:ALA:O	1:E:53:THR:HG23	0.46	2.10	4	1
1:E:32:LEU:CD1	1:E:32:LEU:C	0.46	2.82	5	1
1:N:32:LEU:CD1	1:N:32:LEU:C	0.46	2.82	5	1
1:A:16:SER:HB2	1:A:19:GLU:CD	0.46	2.31	7	5
1:G:78:LEU:C	1:G:78:LEU:CD2	0.46	2.83	9	10
1:L:16:SER:HB2	1:L:19:GLU:CD	0.46	2.30	7	5
1:D:19:GLU:CD	1:D:19:GLU:H	0.46	2.14	7	1
1:J:19:GLU:H	1:J:19:GLU:CD	0.46	2.14	7	1
1:O:78:LEU:C	1:O:78:LEU:CD2	0.46	2.83	8	10
1:M:19:GLU:H	1:M:19:GLU:CD	0.46	2.14	7	1
1:E:16:SER:HB2	1:E:19:GLU:CD	0.46	2.30	7	5
1:G:16:SER:HB2	1:G:19:GLU:CD	0.46	2.31	7	5
1:N:16:SER:HB2	1:N:19:GLU:CD	0.46	2.31	7	5
1:B:19:GLU:H	1:B:19:GLU:CD	0.46	2.14	7	3
1:B:49:ALA:O	1:B:53:THR:HG23	0.46	2.10	4	1
1:I:32:LEU:CD1	1:I:32:LEU:C	0.46	2.82	5	1
1:C:16:SER:HB2	1:C:19:GLU:CD	0.46	2.31	7	5
1:K:16:SER:HB2	1:K:19:GLU:CD	0.46	2.31	7	5
1:K:19:GLU:CD	1:K:19:GLU:H	0.46	2.14	7	2
1:M:49:ALA:O	1:M:53:THR:HG23	0.46	2.10	4	1
1:O:49:ALA:O	1:O:53:THR:HG23	0.46	2.10	4	1
1:F:16:SER:HB2	1:F:19:GLU:CD	0.46	2.31	7	5
1:G:74:ARG:O	1:G:77:GLY:N	0.46	2.45	10	6
1:I:16:SER:HB2	1:I:19:GLU:CD	0.46	2.30	7	5
1:L:32:LEU:C	1:L:32:LEU:CD1	0.46	2.84	3	9
1:M:16:SER:HB2	1:M:19:GLU:CD	0.46	2.31	7	5
1:N:78:LEU:C	1:N:78:LEU:CD2	0.46	2.83	10	10
1:I:49:ALA:O	1:I:53:THR:HG23	0.46	2.10	4	1
1:D:32:LEU:C	1:D:32:LEU:CD1	0.46	2.84	3	8
1:J:16:SER:HB2	1:J:19:GLU:CD	0.46	2.31	7	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:16:SER:HB2	1:B:19:GLU:CD	0.46	2.31	7	5
1:K:32:LEU:C	1:K:32:LEU:CD1	0.46	2.81	2	9
1:F:49:ALA:O	1:F:53:THR:HG23	0.46	2.10	4	1
1:D:27:LEU:O	1:D:30:VAL:HG12	0.46	2.11	9	7
1:A:27:LEU:O	1:A:30:VAL:HG12	0.46	2.11	9	7
1:I:74:ARG:O	1:I:77:GLY:N	0.46	2.45	10	6
1:E:19:GLU:OE1	1:E:19:GLU:N	0.46	2.41	8	4
1:G:61:LEU:N	1:G:61:LEU:CD1	0.46	2.73	3	1
1:C:27:LEU:O	1:C:30:VAL:HG12	0.45	2.11	9	7
1:I:27:LEU:O	1:I:30:VAL:HG12	0.45	2.11	9	7
1:H:27:LEU:O	1:H:30:VAL:HG12	0.45	2.11	9	5
1:K:27:LEU:O	1:K:30:VAL:HG12	0.45	2.12	9	5
1:H:49:ALA:O	1:H:53:THR:HG23	0.45	2.10	4	1
1:B:27:LEU:O	1:B:30:VAL:HG12	0.45	2.11	9	7
1:J:27:LEU:O	1:J:30:VAL:HG12	0.45	2.11	9	8
1:L:27:LEU:O	1:L:30:VAL:HG12	0.45	2.11	9	7
1:I:13:GLU:OE1	1:J:22:LYS:NZ	0.45	2.49	5	5
1:J:19:GLU:OE1	1:J:19:GLU:N	0.45	2.40	7	8
1:A:49:ALA:O	1:A:53:THR:HG23	0.45	2.10	4	1
1:K:19:GLU:H	1:K:19:GLU:CD	0.45	2.15	4	2
1:O:19:GLU:CD	1:O:19:GLU:H	0.45	2.14	7	1
1:G:27:LEU:O	1:G:30:VAL:HG12	0.45	2.11	9	6
1:G:19:GLU:OE1	1:G:19:GLU:N	0.45	2.41	8	7
1:D:74:ARG:O	1:D:77:GLY:N	0.45	2.45	10	5
1:L:74:ARG:O	1:L:77:GLY:N	0.45	2.45	10	5
1:N:49:ALA:O	1:N:53:THR:HG23	0.45	2.10	4	1
1:G:19:GLU:CD	1:G:19:GLU:H	0.45	2.14	7	1
1:E:74:ARG:O	1:E:77:GLY:N	0.45	2.45	10	5
1:D:13:GLU:OE1	1:E:22:LYS:NZ	0.45	2.45	8	5
1:H:19:GLU:OE1	1:H:19:GLU:N	0.45	2.40	7	7
1:C:57:VAL:HG12	1:J:80:GLU:OE2	0.45	2.12	1	4
1:N:27:LEU:O	1:N:30:VAL:HG12	0.45	2.12	9	4
1:D:30:VAL:O	1:D:38:ARG:NH2	0.45	2.50	4	3
1:G:30:VAL:O	1:G:38:ARG:NH2	0.45	2.50	4	3
1:J:30:VAL:O	1:J:38:ARG:NH2	0.45	2.50	4	3
1:E:19:GLU:CD	1:E:19:GLU:H	0.45	2.14	7	2
1:G:19:GLU:H	1:G:19:GLU:CD	0.45	2.15	4	2
1:F:27:LEU:O	1:F:30:VAL:HG12	0.45	2.11	9	6
1:I:30:VAL:O	1:I:38:ARG:NH2	0.45	2.50	4	3
1:N:30:VAL:O	1:N:38:ARG:NH2	0.45	2.50	4	3
1:O:27:LEU:O	1:O:30:VAL:HG12	0.45	2.11	9	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:G:49:ALA:O	1:G:53:THR:HG23	0.45	2.10	4	1
1:O:19:GLU:H	1:O:19:GLU:CD	0.45	2.15	4	2
1:K:32:LEU:CD1	1:K:32:LEU:C	0.45	2.82	5	1
1:B:30:VAL:O	1:B:38:ARG:NH2	0.44	2.50	4	3
1:H:13:GLU:OE1	1:I:22:LYS:NZ	0.44	2.50	5	5
1:M:30:VAL:O	1:M:38:ARG:NH2	0.44	2.50	4	3
1:B:74:ARG:O	1:B:77:GLY:N	0.44	2.45	10	5
1:M:74:ARG:O	1:M:77:GLY:N	0.44	2.45	10	5
1:A:57:VAL:HG12	1:H:80:GLU:OE2	0.44	2.12	10	4
1:E:27:LEU:O	1:E:30:VAL:HG12	0.44	2.11	9	6
1:G:57:VAL:HG12	1:N:80:GLU:OE2	0.44	2.11	3	4
1:L:30:VAL:O	1:L:38:ARG:NH2	0.44	2.50	4	3
1:I:19:GLU:CD	1:I:19:GLU:H	0.44	2.14	7	1
1:C:30:VAL:O	1:C:38:ARG:NH2	0.44	2.50	4	3
1:F:30:VAL:O	1:F:38:ARG:NH2	0.44	2.50	4	3
1:E:30:VAL:O	1:E:38:ARG:NH2	0.44	2.50	4	3
1:E:19:GLU:H	1:E:19:GLU:CD	0.44	2.15	4	2
1:M:27:LEU:O	1:M:30:VAL:HG12	0.44	2.11	9	4
1:O:30:VAL:O	1:O:38:ARG:NH2	0.44	2.50	4	3
1:F:74:ARG:O	1:F:77:GLY:N	0.44	2.45	10	5
1:F:57:VAL:HG12	1:M:80:GLU:OE2	0.44	2.13	3	4
1:N:61:LEU:N	1:N:61:LEU:CD1	0.44	2.73	3	1
1:I:19:GLU:H	1:I:19:GLU:CD	0.44	2.15	4	2
1:A:32:LEU:CD1	1:A:32:LEU:C	0.44	2.82	5	1
1:C:19:GLU:CD	1:C:19:GLU:H	0.44	2.14	7	2
1:L:19:GLU:CD	1:L:19:GLU:H	0.44	2.14	7	3
1:L:48:ASP:CG	1:L:49:ALA:N	0.44	2.71	3	5
1:A:30:VAL:O	1:A:38:ARG:NH2	0.44	2.50	4	3
1:A:19:GLU:CD	1:A:19:GLU:H	0.44	2.14	7	3
1:D:48:ASP:CG	1:D:49:ALA:N	0.43	2.71	3	6
1:E:48:ASP:CG	1:E:49:ALA:N	0.43	2.71	3	6
1:M:48:ASP:CG	1:M:49:ALA:N	0.43	2.71	3	5
1:E:15:LEU:HD21	1:E:81:LEU:CD1	0.43	2.43	4	7
1:K:15:LEU:HD21	1:K:81:LEU:CD1	0.43	2.43	6	8
1:K:30:VAL:O	1:K:38:ARG:NH2	0.43	2.50	4	3
1:M:15:LEU:HD21	1:M:81:LEU:CD1	0.43	2.43	4	8
1:F:15:LEU:HD21	1:F:81:LEU:CD1	0.43	2.43	6	7
1:H:30:VAL:O	1:H:38:ARG:NH2	0.43	2.50	4	3
1:A:16:SER:CB	1:A:19:GLU:OE1	0.43	2.62	7	1
1:C:48:ASP:CG	1:C:49:ALA:N	0.43	2.71	3	5
1:A:18:ASP:OD1	1:A:18:ASP:C	0.43	2.57	2	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:15:LEU:HD21	1:D:81:LEU:CD1	0.43	2.43	4	7
1:H:18:ASP:OD1	1:H:18:ASP:C	0.43	2.57	2	3
1:I:18:ASP:C	1:I:18:ASP:OD1	0.43	2.57	2	4
1:J:15:LEU:HD21	1:J:81:LEU:CD1	0.43	2.44	6	7
1:L:15:LEU:HD21	1:L:81:LEU:CD1	0.43	2.43	4	7
1:N:15:LEU:HD21	1:N:81:LEU:CD1	0.43	2.43	4	7
1:O:18:ASP:OD1	1:O:18:ASP:C	0.43	2.57	2	3
1:C:32:LEU:CD1	1:C:32:LEU:C	0.43	2.82	5	1
1:F:18:ASP:OD1	1:F:18:ASP:C	0.43	2.57	2	5
1:M:18:ASP:OD1	1:M:18:ASP:C	0.43	2.57	2	5
1:B:18:ASP:C	1:B:18:ASP:OD1	0.43	2.57	2	5
1:L:18:ASP:C	1:L:18:ASP:OD1	0.43	2.57	2	5
1:B:19:GLU:OE1	1:B:19:GLU:N	0.43	2.40	7	4
1:D:18:ASP:OD1	1:D:18:ASP:C	0.43	2.57	2	6
1:D:80:GLU:OE2	1:L:57:VAL:HG12	0.43	2.13	9	4
1:G:15:LEU:HD21	1:G:81:LEU:CD1	0.43	2.44	6	7
1:G:18:ASP:C	1:G:18:ASP:OD1	0.43	2.57	2	1
1:J:18:ASP:C	1:J:18:ASP:OD1	0.43	2.57	2	3
1:N:18:ASP:OD1	1:N:18:ASP:C	0.43	2.57	2	4
1:N:19:GLU:CD	1:N:19:GLU:H	0.43	2.14	7	3
1:A:48:ASP:CG	1:A:49:ALA:N	0.43	2.71	3	6
1:E:18:ASP:C	1:E:18:ASP:OD1	0.43	2.57	2	3
1:F:48:ASP:CG	1:F:49:ALA:N	0.43	2.72	2	6
1:G:48:ASP:CG	1:G:49:ALA:N	0.43	2.72	2	6
1:C:18:ASP:OD1	1:C:18:ASP:C	0.43	2.57	2	3
1:K:18:ASP:OD1	1:K:18:ASP:C	0.43	2.57	2	5
1:O:15:LEU:HD21	1:O:81:LEU:CD1	0.43	2.43	4	7
1:C:19:GLU:H	1:C:19:GLU:CD	0.43	2.15	6	1
1:H:16:SER:CB	1:H:19:GLU:OE1	0.43	2.62	7	3
1:H:15:LEU:HD21	1:H:81:LEU:CD1	0.43	2.44	6	7
1:O:19:GLU:OE1	1:O:19:GLU:N	0.43	2.40	7	6
1:A:15:LEU:HD21	1:A:81:LEU:CD1	0.43	2.43	6	7
1:L:19:GLU:OE1	1:L:19:GLU:N	0.43	2.40	7	4
1:N:32:LEU:HD13	1:N:33:ARG:O	0.43	2.14	5	1
1:N:48:ASP:CG	1:N:49:ALA:N	0.43	2.71	3	5
1:F:19:GLU:CD	1:F:19:GLU:H	0.43	2.14	7	3
1:O:32:LEU:HD13	1:O:33:ARG:O	0.43	2.14	5	1
1:J:48:ASP:CG	1:J:49:ALA:N	0.43	2.71	3	5
1:O:48:ASP:CG	1:O:49:ALA:N	0.43	2.72	2	6
1:B:15:LEU:HD21	1:B:81:LEU:CD1	0.43	2.44	6	7
1:C:15:LEU:HD21	1:C:81:LEU:CD1	0.43	2.43	4	7

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:H:48:ASP:CG	1:H:49:ALA:N	0.42	2.72	2	6
1:B:48:ASP:CG	1:B:49:ALA:N	0.42	2.72	2	6
1:K:16:SER:CB	1:K:19:GLU:OE1	0.42	2.62	3	5
1:I:15:LEU:HD21	1:I:81:LEU:CD1	0.42	2.44	4	7
1:F:32:LEU:CD1	1:F:32:LEU:C	0.42	2.82	5	1
1:D:27:LEU:C	1:D:27:LEU:CD2	0.42	2.88	10	9
1:D:19:GLU:OE1	1:D:19:GLU:N	0.42	2.41	8	3
1:L:32:LEU:CD1	1:L:32:LEU:C	0.42	2.82	5	1
1:A:18:ASP:C	1:A:18:ASP:OD1	0.42	2.58	6	4
1:I:27:LEU:C	1:I:27:LEU:CD2	0.42	2.88	10	10
1:K:32:LEU:HD13	1:K:33:ARG:O	0.42	2.14	5	1
1:M:32:LEU:HD13	1:M:33:ARG:O	0.42	2.14	5	1
1:I:48:ASP:CG	1:I:49:ALA:N	0.42	2.71	3	5
1:K:27:LEU:C	1:K:27:LEU:CD2	0.42	2.88	10	10
1:K:48:ASP:CG	1:K:49:ALA:N	0.42	2.72	2	5
1:L:27:LEU:C	1:L:27:LEU:CD2	0.42	2.88	10	7
1:G:32:LEU:HD13	1:G:33:ARG:O	0.42	2.14	5	1
1:H:32:LEU:HD13	1:H:33:ARG:O	0.42	2.14	5	1
1:O:16:SER:CB	1:O:19:GLU:OE1	0.42	2.62	3	5
1:B:27:LEU:C	1:B:27:LEU:CD2	0.42	2.88	10	9
1:C:27:LEU:C	1:C:27:LEU:CD2	0.42	2.88	10	8
1:H:19:GLU:CD	1:H:19:GLU:H	0.42	2.14	7	3
1:I:32:LEU:HD13	1:I:33:ARG:O	0.42	2.14	5	1
1:F:32:LEU:HD13	1:F:33:ARG:O	0.42	2.14	5	1
1:J:32:LEU:CD1	1:J:32:LEU:C	0.42	2.82	5	1
1:L:32:LEU:HD13	1:L:33:ARG:O	0.42	2.14	5	1
1:G:18:ASP:OD1	1:G:18:ASP:C	0.42	2.58	6	3
1:J:32:LEU:HD13	1:J:33:ARG:O	0.42	2.14	5	1
1:J:27:LEU:C	1:J:27:LEU:CD2	0.41	2.88	10	6
1:B:15:LEU:HD21	1:B:81:LEU:CD2	0.41	2.45	7	1
1:G:16:SER:CB	1:G:19:GLU:OE1	0.41	2.62	7	5
1:J:18:ASP:OD1	1:J:18:ASP:C	0.41	2.59	7	1
1:M:15:LEU:HD21	1:M:81:LEU:CD2	0.41	2.45	7	1
1:O:15:LEU:HD21	1:O:81:LEU:CD2	0.41	2.45	7	1
1:E:18:ASP:OD1	1:E:18:ASP:C	0.41	2.59	7	2
1:O:27:LEU:C	1:O:27:LEU:CD2	0.41	2.88	10	4
1:G:15:LEU:HD21	1:G:81:LEU:CD2	0.41	2.46	7	1
1:H:15:LEU:HD21	1:H:81:LEU:CD2	0.41	2.45	7	1
1:N:15:LEU:HD21	1:N:81:LEU:CD2	0.41	2.45	7	1
1:B:16:SER:CB	1:B:19:GLU:OE1	0.41	2.63	1	5
1:A:15:LEU:HD21	1:A:81:LEU:CD2	0.41	2.46	7	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:16:SER:CB	1:C:19:GLU:OE1	0.41	2.63	1	5
1:C:15:LEU:HD21	1:C:81:LEU:CD2	0.41	2.46	7	1
1:L:15:LEU:HD21	1:L:81:LEU:CD2	0.41	2.46	7	1
1:L:16:SER:CB	1:L:19:GLU:OE1	0.41	2.62	3	5
1:H:18:ASP:C	1:H:18:ASP:OD1	0.41	2.59	4	1
1:M:19:GLU:CD	1:M:19:GLU:H	0.41	2.15	6	2
1:J:15:LEU:HD21	1:J:81:LEU:CD2	0.41	2.46	7	1
1:K:15:LEU:HD21	1:K:81:LEU:CD2	0.41	2.46	7	1
1:A:32:LEU:HD13	1:A:33:ARG:O	0.41	2.14	5	1
1:B:32:LEU:HD13	1:B:33:ARG:O	0.41	2.14	5	1
1:O:85:LEU:O	1:O:88:THR:OG1	0.41	2.35	7	1
1:H:27:LEU:C	1:H:27:LEU:CD2	0.41	2.88	10	1
1:L:18:ASP:OD1	1:L:18:ASP:C	0.40	2.60	1	1
1:F:80:GLU:CD	1:F:80:GLU:N	0.40	2.75	8	2
1:M:80:GLU:CD	1:M:80:GLU:N	0.40	2.75	8	2
1:O:18:ASP:C	1:O:18:ASP:OD1	0.40	2.59	4	1
1:F:16:SER:CB	1:F:19:GLU:OE1	0.40	2.62	7	2
1:D:15:LEU:HD21	1:D:81:LEU:CD2	0.40	2.46	7	1
1:E:15:LEU:HD21	1:E:81:LEU:CD2	0.40	2.45	7	1
1:F:15:LEU:HD21	1:F:81:LEU:CD2	0.40	2.46	7	1
1:I:15:LEU:HD21	1:I:81:LEU:CD2	0.40	2.46	7	1
1:I:19:GLU:OE1	1:I:19:GLU:N	0.40	2.40	7	1
1:N:18:ASP:C	1:N:18:ASP:OD1	0.40	2.59	10	2
1:C:18:ASP:C	1:C:18:ASP:OD1	0.40	2.59	4	2
1:E:80:GLU:CD	1:E:80:GLU:N	0.40	2.75	4	1
1:E:16:SER:CB	1:E:19:GLU:OE1	0.40	2.62	7	1
1:D:32:LEU:CD1	1:D:32:LEU:C	0.40	2.82	5	1
1:M:32:LEU:CD1	1:M:32:LEU:C	0.40	2.82	5	1
1:C:47:MET:CE	1:C:55:LYS:NZ	0.40	2.85	2	1
1:J:47:MET:CE	1:J:55:LYS:NZ	0.40	2.85	2	1
1:F:19:GLU:OE1	1:F:19:GLU:N	0.40	2.40	7	1

## 6.3 Torsion angles [i](#)

### 6.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all 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	86/89 (97%)	86±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
1	B	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	C	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	D	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	E	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	F	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	G	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	H	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	I	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	J	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	K	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	L	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	M	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	N	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
1	O	87/89 (98%)	87±0 (100±1%)	0±0 (0±0%)	0±0 (0±0%)	50	82
All	All	13040/13350 (98%)	12998 (100%)	14 (0%)	28 (0%)	50	82

All 14 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	B	3	ARG	2
1	C	3	ARG	2
1	D	3	ARG	2
1	E	3	ARG	2
1	F	3	ARG	2
1	G	3	ARG	2
1	H	3	ARG	2
1	I	3	ARG	2
1	J	3	ARG	2
1	K	3	ARG	2
1	L	3	ARG	2
1	M	3	ARG	2
1	N	3	ARG	2
1	O	3	ARG	2

### 6.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all 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	75/76 (99%)	75±0 (100±0%)	0±0 (0±0%)	100	100
1	B	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	C	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	D	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	E	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	F	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	G	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	H	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	I	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	J	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	K	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	L	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	M	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	N	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
1	O	76/76 (100%)	76±0 (100±0%)	0±0 (0±0%)	100	100
All	All	11390/11400 (100%)	11390 (100%)	0 (0%)	100	100

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

### 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 monosaccharides 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 (i)

The completeness of assignment taking into account all chemical shift lists is 3% for the well-defined parts and 3% for the entire structure.

### 7.1 Chemical shift list 1

File name: working\_cs.cif

Chemical shift list name: *assigned\_chem\_shift\_list\_1*

#### 7.1.1 Bookkeeping (i)

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	484
Number of shifts mapped to atoms	484
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

#### 7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	81	$-0.32 \pm 0.19$	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	75	$0.17 \pm 0.16$	None needed (< 0.5 ppm)
$^{13}\text{C}'$	82	$-0.24 \pm 0.10$	None needed (< 0.5 ppm)
$^{15}\text{N}$	81	$0.59 \pm 0.23$	Should be applied

#### 7.1.3 Completeness of resonance assignments (i)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 3%, i.e. 477 atoms were assigned a chemical shift out of a possible 18856. 0 out of 315 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	242/6739 (4%)	0/2755 (0%)	162/2666 (6%)	80/1318 (6%)
Sidechain	210/11427 (2%)	0/7429 (0%)	202/3551 (6%)	8/447 (2%)

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	<b>Total</b>	<b><sup>1</sup>H</b>	<b><sup>13</sup>C</b>	<b><sup>15</sup>N</b>
Aromatic	25/690 (4%)	0/315 (0%)	25/375 (7%)	0/0 (—%)
Overall	477/18856 (3%)	0/10499 (0%)	389/6592 (6%)	88/1765 (5%)

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 3%, i.e. 478 atoms were assigned a chemical shift out of a possible 18885. 0 out of 315 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	<b>Total</b>	<b><sup>1</sup>H</b>	<b><sup>13</sup>C</b>	<b><sup>15</sup>N</b>
Backbone	243/6750 (4%)	0/2760 (0%)	163/2670 (6%)	80/1320 (6%)
Sidechain	210/11445 (2%)	0/7440 (0%)	202/3555 (6%)	8/450 (2%)
Aromatic	25/690 (4%)	0/315 (0%)	25/375 (7%)	0/0 (—%)
Overall	478/18885 (3%)	0/10515 (0%)	390/6600 (6%)	88/1770 (5%)

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.

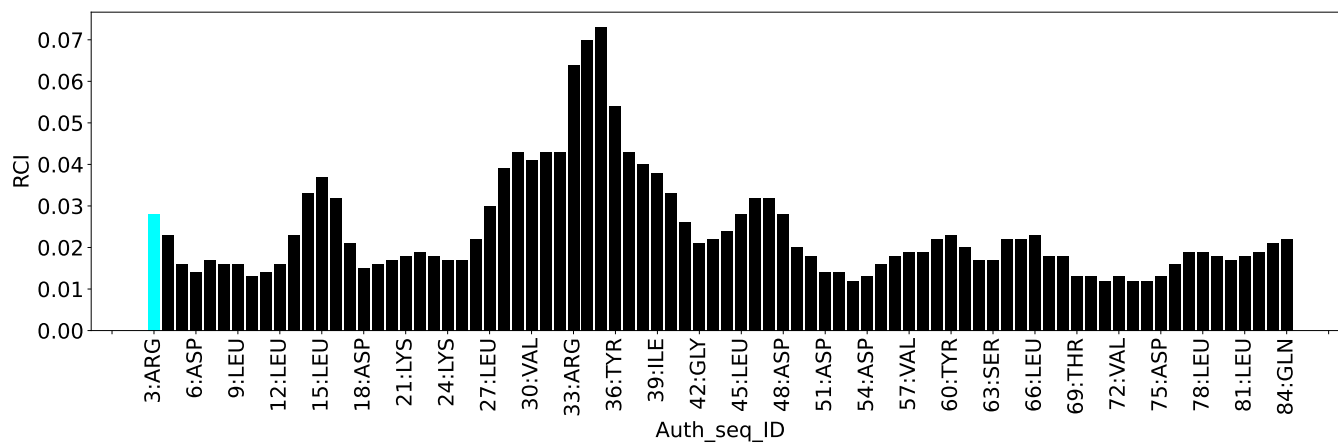
#### 7.1.4 Statistically unusual chemical shifts [i](#)

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	9765
Intra-residue ( $ i-j =0$ )	285
Sequential ( $ i-j =1$ )	1335
Medium range ( $ i-j >1$ and $ i-j <5$ )	4440
Long range ( $ i-j \geq 5$ )	3000
Inter-chain	705
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	2100
Number of unmapped restraints	0
Number of restraints per residue	8.9
Number of long range restraints per residue <sup>1</sup>	2.2

<sup>1</sup>Long 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)	23.2	0.2
0.2-0.5 (Medium)	37.7	0.49
>0.5 (Large)	12.0	0.72

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

Dihedral-angle violations less than 1° are not included in the calculation.

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	177.8	10.0
10.0-20.0 (Medium)	14.9	13.9
>20.0 (Large)	None	None

## 9 Distance violation analysis [i](#)

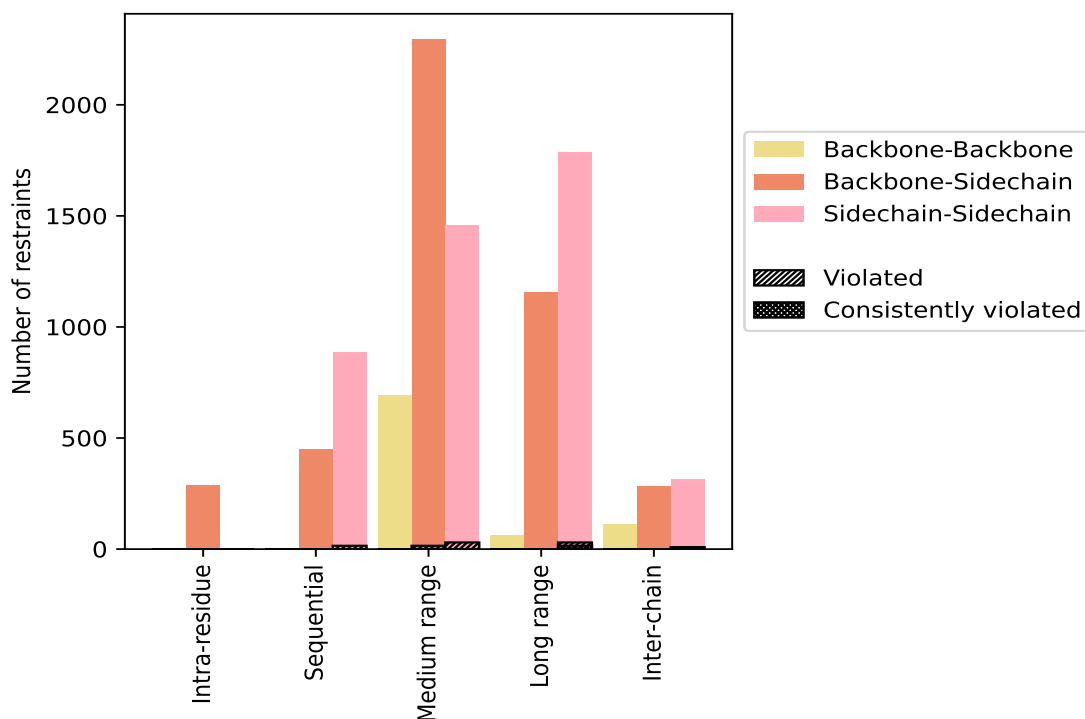
### 9.1 Summary of distance violations [i](#)

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	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
<b>Intra-residue (<math> i-j =0</math>)</b>	<b>285</b>	<b>2.9</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	285	2.9	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
<b>Sequential (<math> i-j =1</math>)</b>	<b>1335</b>	<b>13.7</b>	<b>15</b>	<b>1.1</b>	<b>0.2</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	450	4.6	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	885	9.1	15	1.7	0.2	0	0.0	0.0
<b>Medium range (<math> i-j &gt;1</math> &amp; <math> i-j &lt;5</math>)</b>	<b>4440</b>	<b>45.5</b>	<b>45</b>	<b>1.0</b>	<b>0.5</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	690	7.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	2295	23.5	15	0.7	0.2	0	0.0	0.0
Sidechain-Sidechain	1455	14.9	30	2.1	0.3	0	0.0	0.0
<b>Long range (<math> i-j \geq 5</math>)</b>	<b>3000</b>	<b>30.7</b>	<b>30</b>	<b>1.0</b>	<b>0.3</b>	<b>15</b>	<b>0.5</b>	<b>0.2</b>
Backbone-Backbone	60	0.6	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	1155	11.8	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	1785	18.3	30	1.7	0.3	15	0.8	0.2
<b>Inter-chain</b>	<b>705</b>	<b>7.2</b>	<b>9</b>	<b>1.3</b>	<b>0.1</b>	<b>0</b>	<b>0.0</b>	<b>0.0</b>
Backbone-Backbone	111	1.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	282	2.9	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	312	3.2	9	2.9	0.1	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
<b>Total</b>	<b>9765</b>	<b>100.0</b>	<b>99</b>	<b>1.0</b>	<b>1.0</b>	<b>15</b>	<b>0.2</b>	<b>0.2</b>
Backbone-Backbone	861	8.8	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	4467	45.7	15	0.3	0.2	0	0.0	0.0
Sidechain-Sidechain	4437	45.4	84	1.9	0.9	15	0.3	0.2

<sup>1</sup> percentage calculated with respect to the total number of distance restraints, <sup>2</sup> percentage calculated with respect to the number of restraints in a particular restraint category, <sup>3</sup> violated in at least one model, <sup>4</sup> 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 disulfid bonds are counted in their appropriate category on the x-axis

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

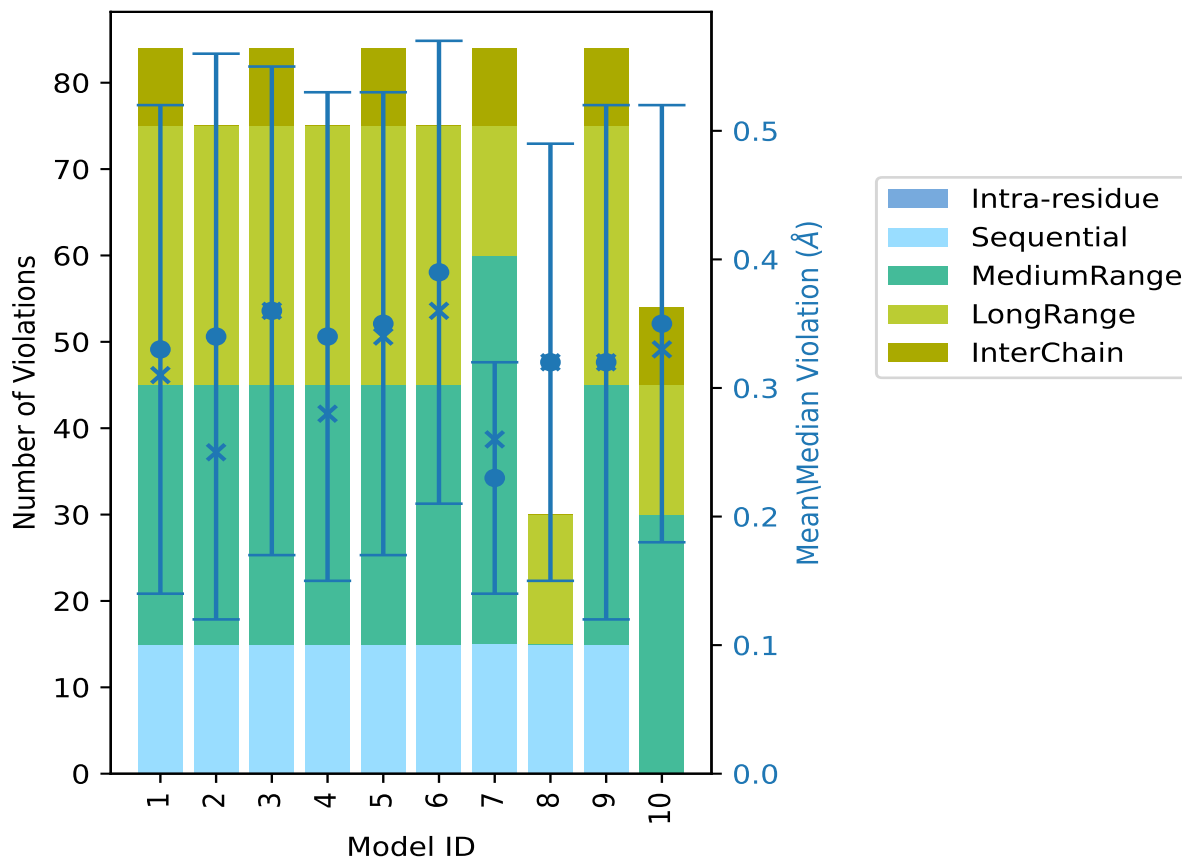
The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD <sup>6</sup> (Å)	Median (Å)
	IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total				
1	0	15	30	30	9	84	0.33	0.71	0.19	0.31
2	0	15	30	30	0	75	0.34	0.7	0.22	0.25
3	0	15	30	30	9	84	0.36	0.72	0.19	0.36
4	0	15	30	30	0	75	0.34	0.7	0.19	0.28
5	0	15	30	30	9	84	0.35	0.7	0.18	0.34
6	0	15	30	30	0	75	0.39	0.69	0.18	0.36
7	0	15	45	15	9	84	0.23	0.34	0.09	0.26
8	0	15	0	15	0	30	0.32	0.49	0.17	0.32
9	0	15	30	30	9	84	0.32	0.72	0.2	0.32
10	0	0	30	15	9	54	0.35	0.61	0.17	0.33

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints,

<sup>5</sup>Inter-chain restraints, <sup>6</sup>Standard 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, 9666(IR:285, SQ:1320, MR:4395, LR:2970, IC:696) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
0	0	15	0	0	15	1	10.0
0	0	0	0	0	0	2	20.0
0	0	0	0	0	0	3	30.0
0	0	0	0	0	0	4	40.0

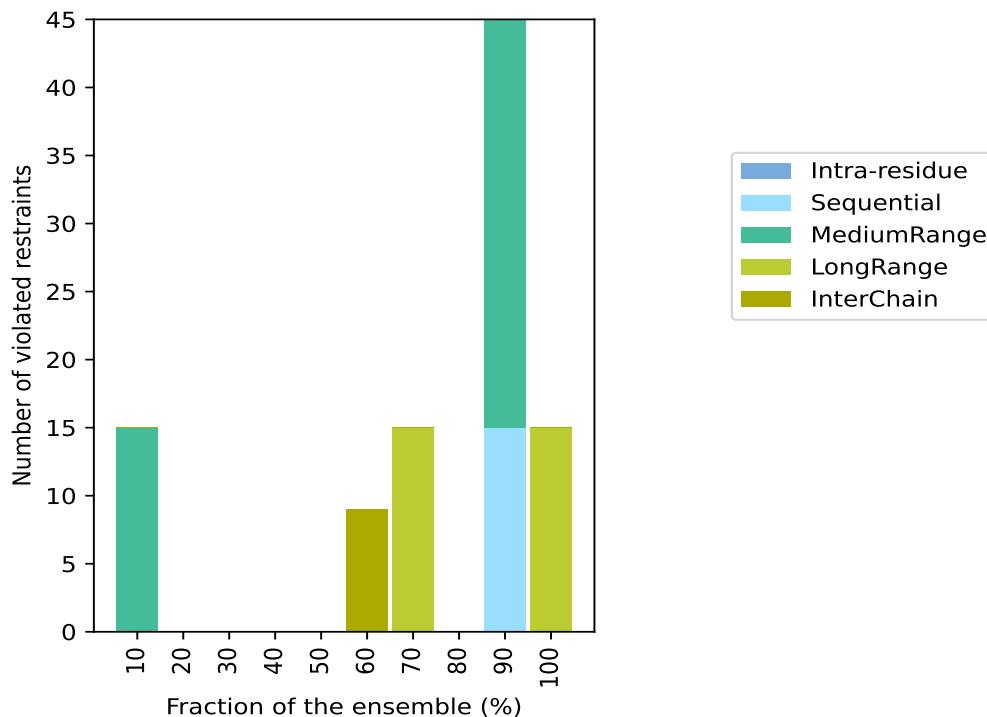
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Number of violated restraints						Fraction of the ensemble	
IR <sup>1</sup>	SQ <sup>2</sup>	MR <sup>3</sup>	LR <sup>4</sup>	IC <sup>5</sup>	Total	Count <sup>6</sup>	%
0	0	0	0	0	0	5	50.0
0	0	0	0	9	9	6	60.0
0	0	0	15	0	15	7	70.0
0	0	0	0	0	0	8	80.0
0	15	30	0	0	45	9	90.0
0	0	0	15	0	15	10	100.0

<sup>1</sup>Intra-residue restraints, <sup>2</sup>Sequential restraints, <sup>3</sup>Medium range restraints, <sup>4</sup>Long range restraints, <sup>5</sup>Inter-chain restraints, <sup>6</sup> Number of models with violations

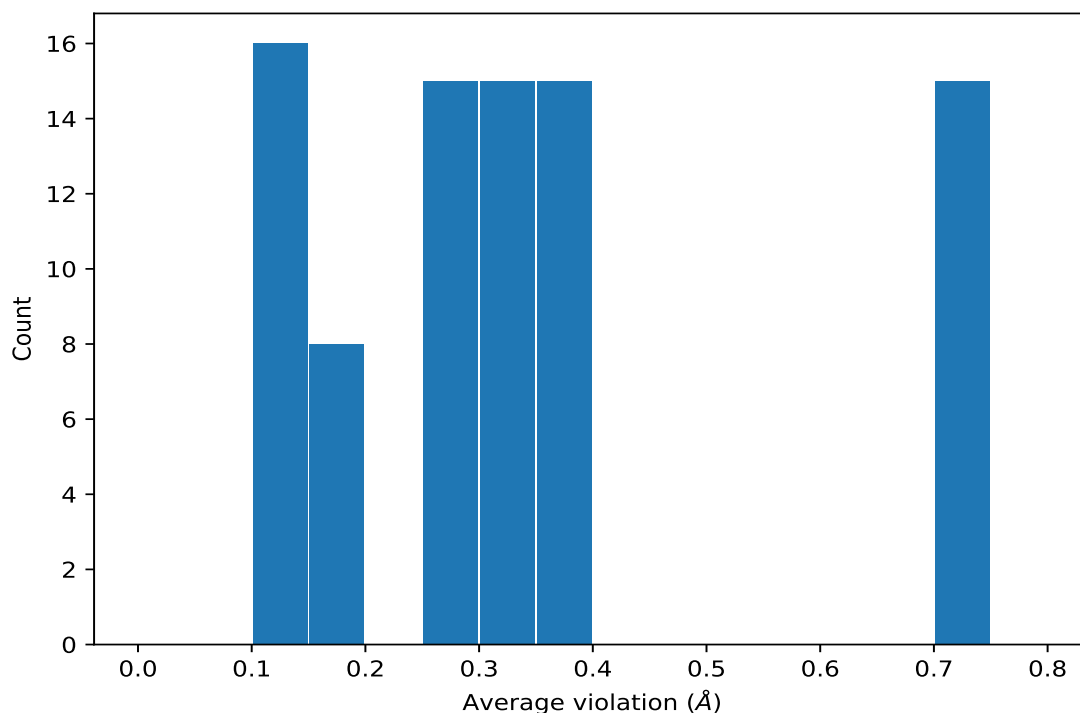
### 9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



## 9.4 Most violated distance restraints in the ensemble [i](#)

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

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 <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	10	0.38	0.07	0.36
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	10	0.38	0.07	0.35
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	10	0.38	0.07	0.35
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	10	0.38	0.07	0.35
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	10	0.38	0.07	0.35
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	10	0.38	0.07	0.35
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	10	0.38	0.07	0.35
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	10	0.38	0.07	0.35
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	10	0.37	0.06	0.35
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	10	0.37	0.06	0.35
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	10	0.37	0.06	0.35
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	10	0.37	0.06	0.35
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	10	0.37	0.06	0.35
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	10	0.37	0.06	0.35
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	10	0.37	0.06	0.35
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	9	0.32	0.13	0.33

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Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	9	0.32	0.13	0.33
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	9	0.32	0.13	0.33
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	9	0.32	0.13	0.33
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	9	0.32	0.13	0.33
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	9	0.32	0.13	0.33
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	9	0.32	0.13	0.33
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	9	0.32	0.13	0.33
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	9	0.32	0.13	0.33
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	9	0.32	0.13	0.33
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	9	0.32	0.13	0.33
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	9	0.32	0.13	0.33
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	9	0.32	0.13	0.33
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	9	0.32	0.13	0.33
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	9	0.32	0.13	0.33
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	9	0.28	0.05	0.26
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	9	0.28	0.05	0.26
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	9	0.28	0.05	0.26
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	9	0.28	0.05	0.26
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	9	0.28	0.05	0.26
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	9	0.28	0.05	0.26
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	9	0.28	0.05	0.26
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	9	0.28	0.05	0.26
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	9	0.28	0.05	0.26
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	9	0.28	0.05	0.26
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	9	0.28	0.05	0.26
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	9	0.28	0.05	0.26
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	9	0.28	0.05	0.26
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	9	0.28	0.05	0.26
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	9	0.28	0.05	0.26
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	9	0.15	0.01	0.15
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	9	0.15	0.01	0.15
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	9	0.15	0.01	0.15
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	9	0.15	0.01	0.15
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	9	0.15	0.01	0.15
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	9	0.15	0.01	0.15
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	9	0.15	0.01	0.15
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	9	0.15	0.01	0.15
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	9	0.15	0.01	0.15
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	9	0.15	0.01	0.15
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	9	0.15	0.01	0.15
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	9	0.15	0.01	0.15
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	9	0.15	0.01	0.15

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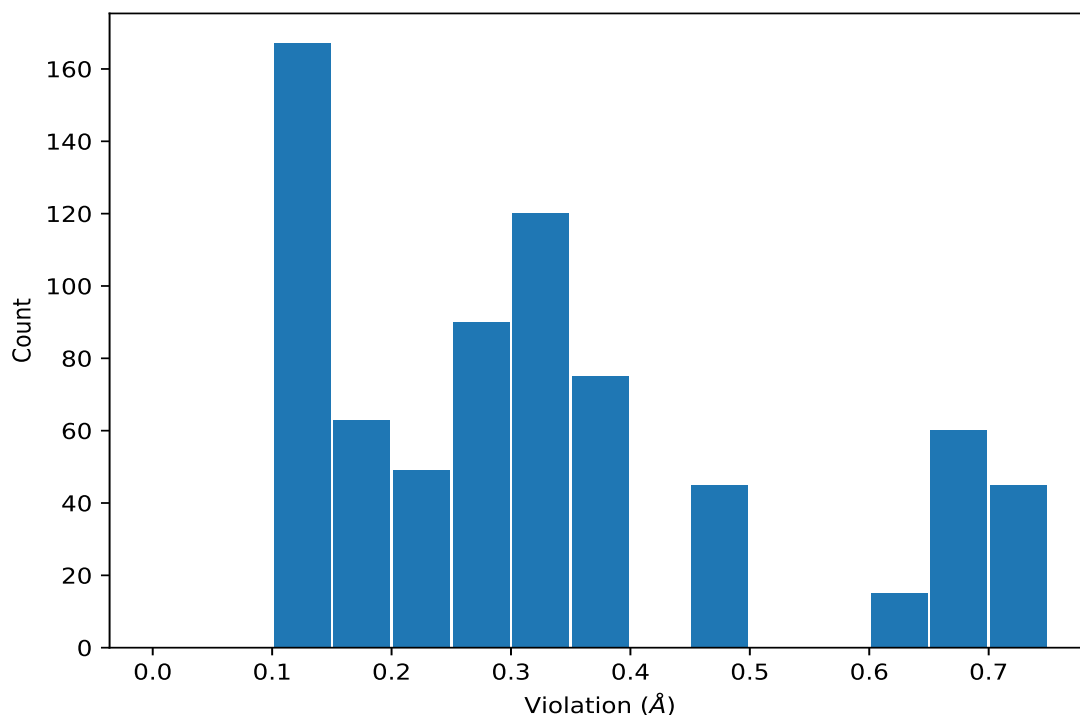
Key	Atom-1	Atom-2	Models <sup>1</sup>	Mean (Å)	SD <sup>1</sup> (Å)	Median (Å)
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	9	0.15	0.01	0.15
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	9	0.15	0.01	0.15
(1,891)	1:A:56:LEU:CB	1:A:69:THR:CG2	7	0.71	0.01	0.7
(1,1495)	1:B:56:LEU:CB	1:B:69:THR:CG2	7	0.71	0.01	0.7
(1,2099)	1:C:56:LEU:CB	1:C:69:THR:CG2	7	0.71	0.01	0.7
(1,2703)	1:D:56:LEU:CB	1:D:69:THR:CG2	7	0.71	0.01	0.7
(1,3307)	1:E:56:LEU:CB	1:E:69:THR:CG2	7	0.71	0.01	0.7
(1,3911)	1:F:56:LEU:CB	1:F:69:THR:CG2	7	0.71	0.01	0.7
(1,4515)	1:G:56:LEU:CB	1:G:69:THR:CG2	7	0.71	0.01	0.7
(1,5119)	1:H:56:LEU:CB	1:H:69:THR:CG2	7	0.71	0.01	0.7
(1,5723)	1:I:56:LEU:CB	1:I:69:THR:CG2	7	0.71	0.01	0.7
(1,6327)	1:J:56:LEU:CB	1:J:69:THR:CG2	7	0.71	0.01	0.7
(1,6931)	1:K:56:LEU:CB	1:K:69:THR:CG2	7	0.71	0.01	0.7
(1,7535)	1:L:56:LEU:CB	1:L:69:THR:CG2	7	0.71	0.01	0.7
(1,8139)	1:M:56:LEU:CB	1:M:69:THR:CG2	7	0.71	0.01	0.7
(1,8743)	1:N:56:LEU:CB	1:N:69:THR:CG2	7	0.71	0.01	0.7
(1,9347)	1:O:56:LEU:CB	1:O:69:THR:CG2	7	0.71	0.01	0.7
(1,574)	1:B:59:TYR:CB	1:I:79:GLN:CG	6	0.17	0.01	0.17
(1,699)	1:M:59:TYR:CB	1:E:79:GLN:CG	6	0.16	0.02	0.16
(1,499)	1:A:59:TYR:CB	1:H:79:GLN:CG	6	0.16	0.02	0.16
(1,674)	1:H:59:TYR:CB	1:O:79:GLN:CG	6	0.16	0.04	0.16
(1,599)	1:G:59:TYR:CB	1:N:79:GLN:CG	6	0.16	0.02	0.16
(1,524)	1:F:59:TYR:CB	1:M:79:GLN:CG	6	0.16	0.01	0.16
(1,549)	1:K:59:TYR:CB	1:C:79:GLN:CG	6	0.16	0.02	0.16
(1,624)	1:L:59:TYR:CB	1:D:79:GLN:CG	6	0.16	0.01	0.15
(1,649)	1:C:59:TYR:CB	1:J:79:GLN:CG	6	0.15	0.03	0.15

<sup>1</sup>Number of violated models, <sup>2</sup>Standard 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)
(1,9347)	1:O:56:LEU:CB	1:O:69:THR:CG2	3	0.72
(1,9347)	1:O:56:LEU:CB	1:O:69:THR:CG2	9	0.72
(1,891)	1:A:56:LEU:CB	1:A:69:THR:CG2	3	0.72
(1,891)	1:A:56:LEU:CB	1:A:69:THR:CG2	9	0.72
(1,8743)	1:N:56:LEU:CB	1:N:69:THR:CG2	3	0.72
(1,8743)	1:N:56:LEU:CB	1:N:69:THR:CG2	9	0.72
(1,8139)	1:M:56:LEU:CB	1:M:69:THR:CG2	3	0.72
(1,8139)	1:M:56:LEU:CB	1:M:69:THR:CG2	9	0.72
(1,7535)	1:L:56:LEU:CB	1:L:69:THR:CG2	3	0.72
(1,7535)	1:L:56:LEU:CB	1:L:69:THR:CG2	9	0.72
(1,6931)	1:K:56:LEU:CB	1:K:69:THR:CG2	3	0.72
(1,6931)	1:K:56:LEU:CB	1:K:69:THR:CG2	9	0.72
(1,6327)	1:J:56:LEU:CB	1:J:69:THR:CG2	3	0.72
(1,6327)	1:J:56:LEU:CB	1:J:69:THR:CG2	9	0.72
(1,5723)	1:I:56:LEU:CB	1:I:69:THR:CG2	3	0.72
(1,5723)	1:I:56:LEU:CB	1:I:69:THR:CG2	9	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5119)	1:H:56:LEU:CB	1:H:69:THR:CG2	3	0.72
(1,5119)	1:H:56:LEU:CB	1:H:69:THR:CG2	9	0.72
(1,4515)	1:G:56:LEU:CB	1:G:69:THR:CG2	3	0.72
(1,4515)	1:G:56:LEU:CB	1:G:69:THR:CG2	9	0.72
(1,3911)	1:F:56:LEU:CB	1:F:69:THR:CG2	3	0.72
(1,3911)	1:F:56:LEU:CB	1:F:69:THR:CG2	9	0.72
(1,3307)	1:E:56:LEU:CB	1:E:69:THR:CG2	3	0.72
(1,3307)	1:E:56:LEU:CB	1:E:69:THR:CG2	9	0.72
(1,2703)	1:D:56:LEU:CB	1:D:69:THR:CG2	3	0.72
(1,2703)	1:D:56:LEU:CB	1:D:69:THR:CG2	9	0.72
(1,2099)	1:C:56:LEU:CB	1:C:69:THR:CG2	3	0.72
(1,2099)	1:C:56:LEU:CB	1:C:69:THR:CG2	9	0.72
(1,1495)	1:B:56:LEU:CB	1:B:69:THR:CG2	3	0.72
(1,1495)	1:B:56:LEU:CB	1:B:69:THR:CG2	9	0.72
(1,9347)	1:O:56:LEU:CB	1:O:69:THR:CG2	1	0.71
(1,891)	1:A:56:LEU:CB	1:A:69:THR:CG2	1	0.71
(1,8743)	1:N:56:LEU:CB	1:N:69:THR:CG2	1	0.71
(1,8139)	1:M:56:LEU:CB	1:M:69:THR:CG2	1	0.71
(1,7535)	1:L:56:LEU:CB	1:L:69:THR:CG2	1	0.71
(1,6931)	1:K:56:LEU:CB	1:K:69:THR:CG2	1	0.71
(1,6327)	1:J:56:LEU:CB	1:J:69:THR:CG2	1	0.71
(1,5723)	1:I:56:LEU:CB	1:I:69:THR:CG2	1	0.71
(1,5119)	1:H:56:LEU:CB	1:H:69:THR:CG2	1	0.71
(1,4515)	1:G:56:LEU:CB	1:G:69:THR:CG2	1	0.71
(1,3911)	1:F:56:LEU:CB	1:F:69:THR:CG2	1	0.71
(1,3307)	1:E:56:LEU:CB	1:E:69:THR:CG2	1	0.71
(1,2703)	1:D:56:LEU:CB	1:D:69:THR:CG2	1	0.71
(1,2099)	1:C:56:LEU:CB	1:C:69:THR:CG2	1	0.71
(1,1495)	1:B:56:LEU:CB	1:B:69:THR:CG2	1	0.71
(1,9347)	1:O:56:LEU:CB	1:O:69:THR:CG2	2	0.7
(1,9347)	1:O:56:LEU:CB	1:O:69:THR:CG2	4	0.7
(1,9347)	1:O:56:LEU:CB	1:O:69:THR:CG2	5	0.7
(1,891)	1:A:56:LEU:CB	1:A:69:THR:CG2	2	0.7
(1,891)	1:A:56:LEU:CB	1:A:69:THR:CG2	4	0.7
(1,891)	1:A:56:LEU:CB	1:A:69:THR:CG2	5	0.7
(1,8743)	1:N:56:LEU:CB	1:N:69:THR:CG2	2	0.7
(1,8743)	1:N:56:LEU:CB	1:N:69:THR:CG2	4	0.7
(1,8743)	1:N:56:LEU:CB	1:N:69:THR:CG2	5	0.7
(1,8139)	1:M:56:LEU:CB	1:M:69:THR:CG2	2	0.7
(1,8139)	1:M:56:LEU:CB	1:M:69:THR:CG2	4	0.7
(1,8139)	1:M:56:LEU:CB	1:M:69:THR:CG2	5	0.7
(1,7535)	1:L:56:LEU:CB	1:L:69:THR:CG2	2	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7535)	1:L:56:LEU:CB	1:L:69:THR:CG2	4	0.7
(1,7535)	1:L:56:LEU:CB	1:L:69:THR:CG2	5	0.7
(1,6931)	1:K:56:LEU:CB	1:K:69:THR:CG2	2	0.7
(1,6931)	1:K:56:LEU:CB	1:K:69:THR:CG2	4	0.7
(1,6931)	1:K:56:LEU:CB	1:K:69:THR:CG2	5	0.7
(1,6327)	1:J:56:LEU:CB	1:J:69:THR:CG2	2	0.7
(1,6327)	1:J:56:LEU:CB	1:J:69:THR:CG2	4	0.7
(1,6327)	1:J:56:LEU:CB	1:J:69:THR:CG2	5	0.7
(1,5723)	1:I:56:LEU:CB	1:I:69:THR:CG2	2	0.7
(1,5723)	1:I:56:LEU:CB	1:I:69:THR:CG2	4	0.7
(1,5723)	1:I:56:LEU:CB	1:I:69:THR:CG2	5	0.7
(1,5119)	1:H:56:LEU:CB	1:H:69:THR:CG2	2	0.7
(1,5119)	1:H:56:LEU:CB	1:H:69:THR:CG2	4	0.7
(1,5119)	1:H:56:LEU:CB	1:H:69:THR:CG2	5	0.7
(1,4515)	1:G:56:LEU:CB	1:G:69:THR:CG2	2	0.7
(1,4515)	1:G:56:LEU:CB	1:G:69:THR:CG2	4	0.7
(1,4515)	1:G:56:LEU:CB	1:G:69:THR:CG2	5	0.7
(1,3911)	1:F:56:LEU:CB	1:F:69:THR:CG2	2	0.7
(1,3911)	1:F:56:LEU:CB	1:F:69:THR:CG2	4	0.7
(1,3911)	1:F:56:LEU:CB	1:F:69:THR:CG2	5	0.7
(1,3307)	1:E:56:LEU:CB	1:E:69:THR:CG2	2	0.7
(1,3307)	1:E:56:LEU:CB	1:E:69:THR:CG2	4	0.7
(1,3307)	1:E:56:LEU:CB	1:E:69:THR:CG2	5	0.7
(1,2703)	1:D:56:LEU:CB	1:D:69:THR:CG2	2	0.7
(1,2703)	1:D:56:LEU:CB	1:D:69:THR:CG2	4	0.7
(1,2703)	1:D:56:LEU:CB	1:D:69:THR:CG2	5	0.7
(1,2099)	1:C:56:LEU:CB	1:C:69:THR:CG2	2	0.7
(1,2099)	1:C:56:LEU:CB	1:C:69:THR:CG2	4	0.7
(1,2099)	1:C:56:LEU:CB	1:C:69:THR:CG2	5	0.7
(1,1495)	1:B:56:LEU:CB	1:B:69:THR:CG2	2	0.7
(1,1495)	1:B:56:LEU:CB	1:B:69:THR:CG2	4	0.7
(1,1495)	1:B:56:LEU:CB	1:B:69:THR:CG2	5	0.7
(1,9347)	1:O:56:LEU:CB	1:O:69:THR:CG2	6	0.69
(1,891)	1:A:56:LEU:CB	1:A:69:THR:CG2	6	0.69
(1,8743)	1:N:56:LEU:CB	1:N:69:THR:CG2	6	0.69
(1,8139)	1:M:56:LEU:CB	1:M:69:THR:CG2	6	0.69
(1,7535)	1:L:56:LEU:CB	1:L:69:THR:CG2	6	0.69
(1,6931)	1:K:56:LEU:CB	1:K:69:THR:CG2	6	0.69
(1,6327)	1:J:56:LEU:CB	1:J:69:THR:CG2	6	0.69
(1,5723)	1:I:56:LEU:CB	1:I:69:THR:CG2	6	0.69
(1,5119)	1:H:56:LEU:CB	1:H:69:THR:CG2	6	0.69
(1,4515)	1:G:56:LEU:CB	1:G:69:THR:CG2	6	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3911)	1:F:56:LEU:CB	1:F:69:THR:CG2	6	0.69
(1,3307)	1:E:56:LEU:CB	1:E:69:THR:CG2	6	0.69
(1,2703)	1:D:56:LEU:CB	1:D:69:THR:CG2	6	0.69
(1,2099)	1:C:56:LEU:CB	1:C:69:THR:CG2	6	0.69
(1,1495)	1:B:56:LEU:CB	1:B:69:THR:CG2	6	0.69
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	10	0.61
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	10	0.61
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	10	0.61
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	10	0.61
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	10	0.61
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	10	0.61
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	10	0.61
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	10	0.61
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	10	0.61
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	10	0.61
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	10	0.61
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	10	0.61
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	10	0.61
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	10	0.61
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	10	0.61
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	8	0.49
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	8	0.49
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	8	0.49
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	8	0.49
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	8	0.49
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	8	0.49
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	8	0.49
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	8	0.49
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	8	0.48
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	8	0.48
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	8	0.48
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	8	0.48
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	8	0.48
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	8	0.48
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	8	0.48
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	2	0.46
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	2	0.46
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	2	0.46
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	2	0.46
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	2	0.46
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	2	0.46
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	2	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	2	0.46
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	2	0.46
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	2	0.46
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	2	0.46
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	2	0.46
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	2	0.46
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	2	0.46
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	2	0.46
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	6	0.45
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	6	0.45
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	6	0.45
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	6	0.45
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	6	0.45
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	6	0.45
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	6	0.45
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	6	0.45
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	6	0.45
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	6	0.45
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	6	0.45
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	6	0.45
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	6	0.45
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	6	0.45
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	6	0.45
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	5	0.39
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	5	0.39
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	5	0.39
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	5	0.39
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	5	0.39
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	5	0.39
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	5	0.39
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	5	0.39
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	5	0.39
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	5	0.39
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	5	0.39
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	5	0.39
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	5	0.39
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	5	0.39
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	5	0.39
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	3	0.38
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	3	0.38
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	3	0.38
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	3	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	3	0.38
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	3	0.38
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	3	0.38
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	3	0.38
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	3	0.38
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	3	0.38
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	3	0.38
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	3	0.38
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	3	0.38
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	3	0.38
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	3	0.38
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	4	0.37
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	4	0.36
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	3	0.36
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	6	0.36
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	4	0.36
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	3	0.36
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	6	0.36
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	4	0.36
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	3	0.36
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	6	0.36
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	4	0.36
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	6	0.36
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	3	0.36
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	6	0.36
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	4	0.36
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	3	0.36
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	6	0.36
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	4	0.36
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	3	0.36
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	6	0.36
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	4	0.36
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	3	0.36
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	6	0.36
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	3	0.36
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	6	0.36
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	4	0.36
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	3	0.36
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	6	0.36
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	4	0.36
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	3	0.36
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	6	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	4	0.36
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	3	0.36
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	6	0.36
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	4	0.36
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	3	0.36
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	6	0.36
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	4	0.36
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	3	0.36
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	6	0.36
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	4	0.36
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	3	0.36
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	6	0.36
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	4	0.36
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	3	0.36
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	9	0.34
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	5	0.34
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	7	0.34
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	9	0.34
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	5	0.34
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	7	0.34
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	9	0.34
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	5	0.34
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	7	0.34
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	9	0.34
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	7	0.34
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	5	0.34
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	7	0.34
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	9	0.34
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	5	0.34
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	7	0.34
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	9	0.34
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	5	0.34
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	7	0.34
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	9	0.34
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	5	0.34
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	7	0.34
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	9	0.34
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	5	0.34
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	7	0.34
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	9	0.34
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	5	0.34
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	7	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	9	0.34
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	5	0.34
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	7	0.34
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	9	0.34
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	5	0.34
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	7	0.34
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	9	0.34
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	5	0.34
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	7	0.34
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	9	0.34
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	5	0.34
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	7	0.34
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	9	0.34
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	5	0.34
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	7	0.34
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	9	0.34
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	5	0.34
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	10	0.33
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	1	0.33
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	10	0.33
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	1	0.33
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	10	0.33
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	1	0.33
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	10	0.33
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	1	0.33
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	1	0.33
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	10	0.33
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	1	0.33
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	10	0.33
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	1	0.33
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	10	0.33
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	1	0.33
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	10	0.33
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	1	0.33
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	10	0.33
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	1	0.33
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	10	0.33
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	1	0.33
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	10	0.33
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	1	0.33
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	10	0.33
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	1	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	10	0.33
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	1	0.33
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	10	0.33
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	1	0.33
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	10	0.33
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	7	0.32
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	9	0.32
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	7	0.32
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	9	0.32
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	7	0.32
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	9	0.32
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	7	0.32
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	9	0.32
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	7	0.32
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	9	0.32
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	7	0.32
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	9	0.32
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	7	0.32
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	9	0.32
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	7	0.32
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	9	0.32
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	7	0.32
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	9	0.32
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	7	0.32
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	9	0.32
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	7	0.32
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	9	0.32
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	7	0.32
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	9	0.32
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	7	0.32
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	9	0.32
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	7	0.32
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	9	0.32
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	7	0.32
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	9	0.32
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	1	0.31
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	1	0.31
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	1	0.31
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	1	0.31
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	1	0.31
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	1	0.31
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	1	0.31
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	1	0.31
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	1	0.31
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	1	0.31
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	1	0.31
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	1	0.31
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	1	0.31
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	1	0.31
(1,9715)	1:O:22:LYS:CE	1:O:76:MET:CE	3	0.3
(1,9111)	1:N:22:LYS:CE	1:N:76:MET:CE	3	0.3
(1,8507)	1:M:22:LYS:CE	1:M:76:MET:CE	3	0.3
(1,7903)	1:L:22:LYS:CE	1:L:76:MET:CE	3	0.3
(1,7299)	1:K:22:LYS:CE	1:K:76:MET:CE	3	0.3
(1,6695)	1:J:22:LYS:CE	1:J:76:MET:CE	3	0.3
(1,6091)	1:I:22:LYS:CE	1:I:76:MET:CE	3	0.3
(1,5487)	1:H:22:LYS:CE	1:H:76:MET:CE	3	0.3
(1,4883)	1:G:22:LYS:CE	1:G:76:MET:CE	3	0.3
(1,4279)	1:F:22:LYS:CE	1:F:76:MET:CE	3	0.3
(1,3675)	1:E:22:LYS:CE	1:E:76:MET:CE	3	0.3
(1,3071)	1:D:22:LYS:CE	1:D:76:MET:CE	3	0.3
(1,2467)	1:C:22:LYS:CE	1:C:76:MET:CE	3	0.3
(1,1863)	1:B:22:LYS:CE	1:B:76:MET:CE	3	0.3
(1,1259)	1:A:22:LYS:CE	1:A:76:MET:CE	3	0.3
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	6	0.29
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	6	0.29
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	6	0.29
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	6	0.29
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	4	0.29
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	6	0.29
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	6	0.29
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	6	0.29
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	6	0.29
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	4	0.29
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	6	0.29
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	4	0.28
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	4	0.28
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	6	0.28
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	4	0.28
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	4	0.28
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	6	0.28
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	4	0.28
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	4	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	6	0.28
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	4	0.28
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	4	0.28
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	4	0.28
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	4	0.28
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	6	0.28
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	4	0.28
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	6	0.28
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	4	0.28
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	6	0.28
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	4	0.28
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	5	0.27
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	5	0.27
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	5	0.27
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	5	0.27
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	5	0.27
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	5	0.27
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	5	0.27
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	5	0.27
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	5	0.27
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	5	0.27
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	5	0.27
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	5	0.27
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	5	0.27
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	5	0.27
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	5	0.27
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	7	0.26
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	7	0.26
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	7	0.26
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	7	0.26
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	7	0.26
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	7	0.26
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	7	0.26
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	7	0.26
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	7	0.26
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	7	0.26
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	7	0.26
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	7	0.26
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	7	0.26
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	7	0.26
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	7	0.26
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	2	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	2	0.25
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	2	0.25
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	2	0.25
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	2	0.25
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	2	0.25
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	2	0.25
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	2	0.25
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	2	0.25
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	2	0.25
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	2	0.25
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	2	0.25
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	2	0.25
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	2	0.25
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	2	0.25
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	10	0.24
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	10	0.24
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	10	0.24
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	10	0.24
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	10	0.24
(1,674)	1:H:59:TYR:CB	1:O:79:GLN:CG	5	0.24
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	10	0.24
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	10	0.24
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	10	0.24
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	10	0.24
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	10	0.24
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	10	0.24
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	10	0.24
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	10	0.24
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	10	0.24
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	10	0.24
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	1	0.23
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	1	0.23
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	1	0.23
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	1	0.23
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	1	0.23
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	1	0.23
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	1	0.23
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	1	0.23
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	1	0.23
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	1	0.23
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	1	0.23
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	1	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	1	0.23
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	1	0.23
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	1	0.23
(1,9604)	1:O:29:THR:C	1:O:32:LEU:CD2	4	0.22
(1,9000)	1:N:29:THR:C	1:N:32:LEU:CD2	4	0.22
(1,8396)	1:M:29:THR:C	1:M:32:LEU:CD2	4	0.22
(1,7792)	1:L:29:THR:C	1:L:32:LEU:CD2	4	0.22
(1,7188)	1:K:29:THR:C	1:K:32:LEU:CD2	4	0.22
(1,6584)	1:J:29:THR:C	1:J:32:LEU:CD2	4	0.22
(1,5980)	1:I:29:THR:C	1:I:32:LEU:CD2	4	0.22
(1,5376)	1:H:29:THR:C	1:H:32:LEU:CD2	4	0.22
(1,4772)	1:G:29:THR:C	1:G:32:LEU:CD2	4	0.22
(1,4168)	1:F:29:THR:C	1:F:32:LEU:CD2	4	0.22
(1,3564)	1:E:29:THR:C	1:E:32:LEU:CD2	4	0.22
(1,2960)	1:D:29:THR:C	1:D:32:LEU:CD2	4	0.22
(1,2356)	1:C:29:THR:C	1:C:32:LEU:CD2	4	0.22
(1,1752)	1:B:29:THR:C	1:B:32:LEU:CD2	4	0.22
(1,1148)	1:A:29:THR:C	1:A:32:LEU:CD2	4	0.22
(1,499)	1:A:59:TYR:CB	1:H:79:GLN:CG	3	0.21
(1,699)	1:M:59:TYR:CB	1:E:79:GLN:CG	5	0.2
(1,649)	1:C:59:TYR:CB	1:J:79:GLN:CG	3	0.2
(1,599)	1:G:59:TYR:CB	1:N:79:GLN:CG	5	0.19
(1,574)	1:B:59:TYR:CB	1:I:79:GLN:CG	5	0.19
(1,549)	1:K:59:TYR:CB	1:C:79:GLN:CG	5	0.19
(1,699)	1:M:59:TYR:CB	1:E:79:GLN:CG	3	0.18
(1,624)	1:L:59:TYR:CB	1:D:79:GLN:CG	3	0.18
(1,599)	1:G:59:TYR:CB	1:N:79:GLN:CG	3	0.18
(1,574)	1:B:59:TYR:CB	1:I:79:GLN:CG	9	0.18
(1,524)	1:F:59:TYR:CB	1:M:79:GLN:CG	5	0.18
(1,699)	1:M:59:TYR:CB	1:E:79:GLN:CG	7	0.17
(1,649)	1:C:59:TYR:CB	1:J:79:GLN:CG	5	0.17
(1,624)	1:L:59:TYR:CB	1:D:79:GLN:CG	5	0.17
(1,574)	1:B:59:TYR:CB	1:I:79:GLN:CG	3	0.17
(1,574)	1:B:59:TYR:CB	1:I:79:GLN:CG	10	0.17
(1,549)	1:K:59:TYR:CB	1:C:79:GLN:CG	7	0.17
(1,524)	1:F:59:TYR:CB	1:M:79:GLN:CG	3	0.17
(1,499)	1:A:59:TYR:CB	1:H:79:GLN:CG	5	0.17
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	9	0.16
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	9	0.16
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	7	0.16
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	9	0.16
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	7	0.16
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	9	0.16
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	9	0.16
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	9	0.16
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	9	0.16
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	9	0.16
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	9	0.16
(1,699)	1:M:59:TYR:CB	1:E:79:GLN:CG	1	0.16
(1,699)	1:M:59:TYR:CB	1:E:79:GLN:CG	10	0.16
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	9	0.16
(1,674)	1:H:59:TYR:CB	1:O:79:GLN:CG	1	0.16
(1,674)	1:H:59:TYR:CB	1:O:79:GLN:CG	9	0.16
(1,674)	1:H:59:TYR:CB	1:O:79:GLN:CG	10	0.16
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	7	0.16
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	9	0.16
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	9	0.16
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	9	0.16
(1,599)	1:G:59:TYR:CB	1:N:79:GLN:CG	1	0.16
(1,574)	1:B:59:TYR:CB	1:I:79:GLN:CG	1	0.16
(1,574)	1:B:59:TYR:CB	1:I:79:GLN:CG	7	0.16
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	9	0.16
(1,549)	1:K:59:TYR:CB	1:C:79:GLN:CG	3	0.16
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	9	0.16
(1,524)	1:F:59:TYR:CB	1:M:79:GLN:CG	9	0.16
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	9	0.16
(1,499)	1:A:59:TYR:CB	1:H:79:GLN:CG	7	0.16
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	7	0.16
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	9	0.16
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	9	0.16
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	9	0.16
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	9	0.16
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	9	0.16
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	9	0.16
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	9	0.16
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	9	0.16
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	9	0.16
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	9	0.16
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	7	0.16
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	9	0.16
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	9	0.16
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	7	0.16
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	9	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	1	0.15
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	3	0.15
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	4	0.15
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	6	0.15
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	7	0.15
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	8	0.15
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	1	0.15
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	3	0.15
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	4	0.15
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	6	0.15
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	8	0.15
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	1	0.15
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	3	0.15
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	4	0.15
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	6	0.15
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	8	0.15
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	1	0.15
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	3	0.15
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	4	0.15
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	6	0.15
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	7	0.15
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	8	0.15
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	1	0.15
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	3	0.15
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	4	0.15
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	6	0.15
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	7	0.15
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	8	0.15
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	1	0.15
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	3	0.15
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	4	0.15
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	6	0.15
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	8	0.15
(1,649)	1:C:59:TYR:CB	1:J:79:GLN:CG	1	0.15
(1,649)	1:C:59:TYR:CB	1:J:79:GLN:CG	10	0.15
(1,624)	1:L:59:TYR:CB	1:D:79:GLN:CG	1	0.15
(1,624)	1:L:59:TYR:CB	1:D:79:GLN:CG	10	0.15
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	1	0.15
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	3	0.15
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	4	0.15
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	6	0.15
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	7	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	8	0.15
(1,599)	1:G:59:TYR:CB	1:N:79:GLN:CG	9	0.15
(1,599)	1:G:59:TYR:CB	1:N:79:GLN:CG	10	0.15
(1,549)	1:K:59:TYR:CB	1:C:79:GLN:CG	10	0.15
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	1	0.15
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	3	0.15
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	4	0.15
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	6	0.15
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	7	0.15
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	8	0.15
(1,524)	1:F:59:TYR:CB	1:M:79:GLN:CG	10	0.15
(1,499)	1:A:59:TYR:CB	1:H:79:GLN:CG	1	0.15
(1,499)	1:A:59:TYR:CB	1:H:79:GLN:CG	10	0.15
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	1	0.15
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	3	0.15
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	4	0.15
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	6	0.15
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	8	0.15
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	1	0.15
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	3	0.15
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	4	0.15
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	6	0.15
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	7	0.15
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	8	0.15
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	1	0.15
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	3	0.15
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	4	0.15
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	6	0.15
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	7	0.15
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	8	0.15
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	1	0.15
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	3	0.15
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	4	0.15
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	6	0.15
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	7	0.15
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	8	0.15
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	1	0.15
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	3	0.15
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	4	0.15
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	6	0.15
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	7	0.15
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	8	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	1	0.15
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	3	0.15
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	4	0.15
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	6	0.15
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	8	0.15
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	1	0.15
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	3	0.15
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	4	0.15
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	6	0.15
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	8	0.15
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	5	0.14
(1,9246)	1:O:19:GLU:CG	1:O:22:LYS:CE	2	0.14
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	5	0.14
(1,8642)	1:N:19:GLU:CG	1:N:22:LYS:CE	2	0.14
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	5	0.14
(1,8038)	1:M:19:GLU:CG	1:M:22:LYS:CE	2	0.14
(1,790)	1:A:19:GLU:CG	1:A:22:LYS:CE	2	0.14
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	5	0.14
(1,7434)	1:L:19:GLU:CG	1:L:22:LYS:CE	2	0.14
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	5	0.14
(1,6830)	1:K:19:GLU:CG	1:K:22:LYS:CE	2	0.14
(1,674)	1:H:59:TYR:CB	1:O:79:GLN:CG	7	0.14
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	5	0.14
(1,649)	1:C:59:TYR:CB	1:J:79:GLN:CG	7	0.14
(1,624)	1:L:59:TYR:CB	1:D:79:GLN:CG	7	0.14
(1,624)	1:L:59:TYR:CB	1:D:79:GLN:CG	9	0.14
(1,6226)	1:J:19:GLU:CG	1:J:22:LYS:CE	2	0.14
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	5	0.14
(1,5622)	1:I:19:GLU:CG	1:I:22:LYS:CE	2	0.14
(1,549)	1:K:59:TYR:CB	1:C:79:GLN:CG	1	0.14
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	5	0.14
(1,524)	1:F:59:TYR:CB	1:M:79:GLN:CG	1	0.14
(1,524)	1:F:59:TYR:CB	1:M:79:GLN:CG	7	0.14
(1,5018)	1:H:19:GLU:CG	1:H:22:LYS:CE	2	0.14
(1,499)	1:A:59:TYR:CB	1:H:79:GLN:CG	9	0.14
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	5	0.14
(1,4414)	1:G:19:GLU:CG	1:G:22:LYS:CE	2	0.14
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	5	0.14
(1,3810)	1:F:19:GLU:CG	1:F:22:LYS:CE	2	0.14
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	5	0.14
(1,3206)	1:E:19:GLU:CG	1:E:22:LYS:CE	2	0.14
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	5	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2602)	1:D:19:GLU:CG	1:D:22:LYS:CE	2	0.14
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	5	0.14
(1,1998)	1:C:19:GLU:CG	1:C:22:LYS:CE	2	0.14
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	5	0.14
(1,1394)	1:B:19:GLU:CG	1:B:22:LYS:CE	2	0.14
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	5	0.14
(1,9666)	1:O:70:MET:CG	1:O:71:THR:CG2	2	0.13
(1,9062)	1:N:70:MET:CG	1:N:71:THR:CG2	2	0.13
(1,8458)	1:M:70:MET:CG	1:M:71:THR:CG2	2	0.13
(1,7854)	1:L:70:MET:CG	1:L:71:THR:CG2	2	0.13
(1,7250)	1:K:70:MET:CG	1:K:71:THR:CG2	2	0.13
(1,6646)	1:J:70:MET:CG	1:J:71:THR:CG2	2	0.13
(1,6042)	1:I:70:MET:CG	1:I:71:THR:CG2	2	0.13
(1,599)	1:G:59:TYR:CB	1:N:79:GLN:CG	7	0.13
(1,549)	1:K:59:TYR:CB	1:C:79:GLN:CG	9	0.13
(1,5438)	1:H:70:MET:CG	1:H:71:THR:CG2	2	0.13
(1,4834)	1:G:70:MET:CG	1:G:71:THR:CG2	2	0.13
(1,4230)	1:F:70:MET:CG	1:F:71:THR:CG2	2	0.13
(1,3626)	1:E:70:MET:CG	1:E:71:THR:CG2	2	0.13
(1,3022)	1:D:70:MET:CG	1:D:71:THR:CG2	2	0.13
(1,2418)	1:C:70:MET:CG	1:C:71:THR:CG2	2	0.13
(1,1814)	1:B:70:MET:CG	1:B:71:THR:CG2	2	0.13
(1,1210)	1:A:70:MET:CG	1:A:71:THR:CG2	2	0.13
(1,699)	1:M:59:TYR:CB	1:E:79:GLN:CG	9	0.12
(1,674)	1:H:59:TYR:CB	1:O:79:GLN:CG	3	0.12
(1,9242)	1:O:68:LEU:CB	1:O:72:VAL:CB	7	0.11
(1,8638)	1:N:68:LEU:CB	1:N:72:VAL:CB	7	0.11
(1,8034)	1:M:68:LEU:CB	1:M:72:VAL:CB	7	0.11
(1,786)	1:A:68:LEU:CB	1:A:72:VAL:CB	7	0.11
(1,7430)	1:L:68:LEU:CB	1:L:72:VAL:CB	7	0.11
(1,6826)	1:K:68:LEU:CB	1:K:72:VAL:CB	7	0.11
(1,649)	1:C:59:TYR:CB	1:J:79:GLN:CG	9	0.11
(1,6222)	1:J:68:LEU:CB	1:J:72:VAL:CB	7	0.11
(1,5618)	1:I:68:LEU:CB	1:I:72:VAL:CB	7	0.11
(1,5014)	1:H:68:LEU:CB	1:H:72:VAL:CB	7	0.11
(1,4410)	1:G:68:LEU:CB	1:G:72:VAL:CB	7	0.11
(1,3806)	1:F:68:LEU:CB	1:F:72:VAL:CB	7	0.11
(1,3202)	1:E:68:LEU:CB	1:E:72:VAL:CB	7	0.11
(1,2598)	1:D:68:LEU:CB	1:D:72:VAL:CB	7	0.11
(1,1994)	1:C:68:LEU:CB	1:C:72:VAL:CB	7	0.11
(1,1390)	1:B:68:LEU:CB	1:B:72:VAL:CB	7	0.11

## 10 Dihedral-angle violation analysis [i](#)

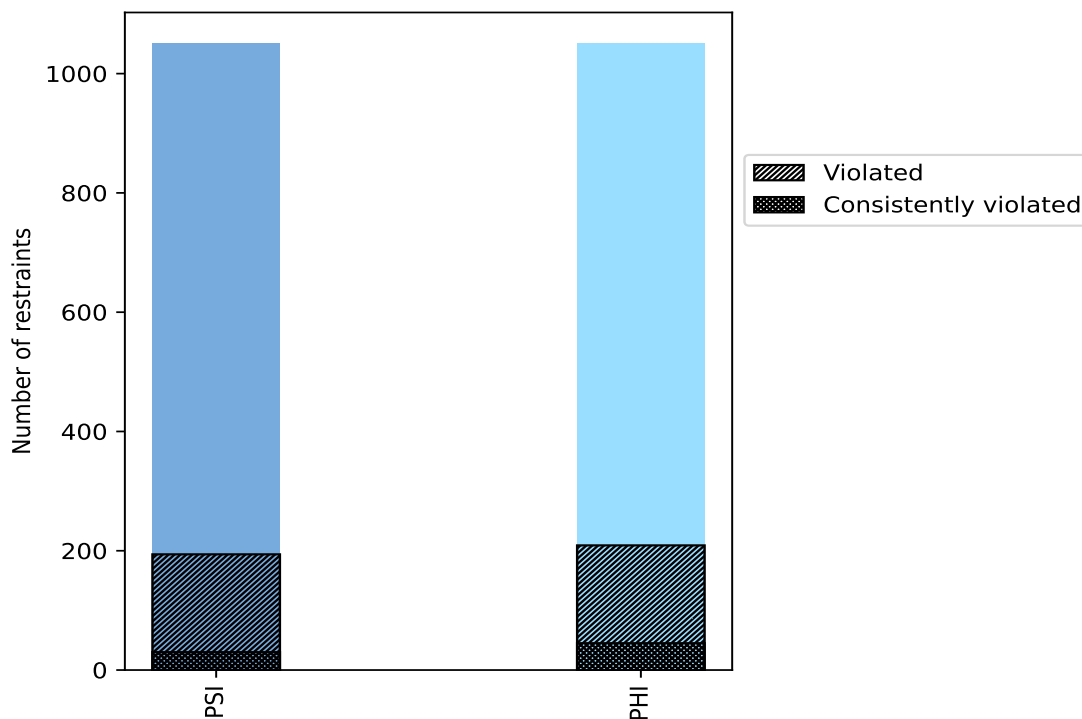
### 10.1 Summary of dihedral-angle violations [i](#)

The following table provides the summary of dihedral-angle violations in different dihedral-angle types. Violations less than 1° are not included in the calculation.

Angle type	Count	% <sup>1</sup>	Violated <sup>3</sup>			Consistently Violated <sup>4</sup>		
			Count	% <sup>2</sup>	% <sup>1</sup>	Count	% <sup>2</sup>	% <sup>1</sup>
PSI	1050	50.0	194	18.5	9.2	30	2.9	1.4
PHI	1050	50.0	209	19.9	10.0	45	4.3	2.1
Total	2100	100.0	403	19.2	19.2	75	3.6	3.6

<sup>1</sup> percentage calculated with respect to total number of dihedral-angle restraints, <sup>2</sup> percentage calculated with respect to number of restraints in a particular dihedral-angle type, <sup>3</sup> violated in at least one model, <sup>4</sup> violated in all the models

#### 10.1.1 Bar chart : Distribution of dihedral-angles and violations [i](#)



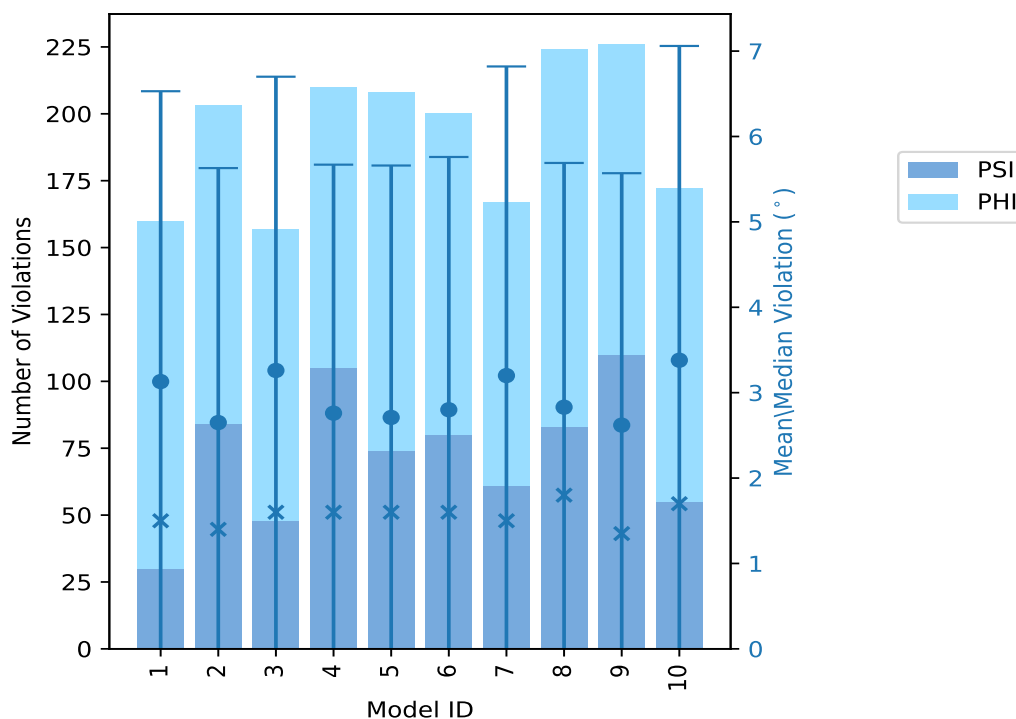
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

## 10.2 Dihedral-angle violation statistics for each model [i](#)

The following table provides the dihedral-angle violation statistics for each model in the ensemble. Violations less than 1° are not included in the statistics.

Model ID	Number of violations			Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	Total				
1	30	130	160	3.13	10.3	3.4	1.5
2	84	119	203	2.65	10.1	2.98	1.4
3	48	109	157	3.26	10.5	3.44	1.6
4	105	105	210	2.76	10.1	2.91	1.6
5	74	134	208	2.71	10.2	2.95	1.6
6	80	120	200	2.8	10.1	2.96	1.6
7	61	106	167	3.2	13.1	3.62	1.5
8	83	141	224	2.83	10.4	2.86	1.8
9	110	116	226	2.62	10.4	2.95	1.35
10	55	117	172	3.38	13.9	3.68	1.7

### 10.2.1 Bar graph : Dihedral 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

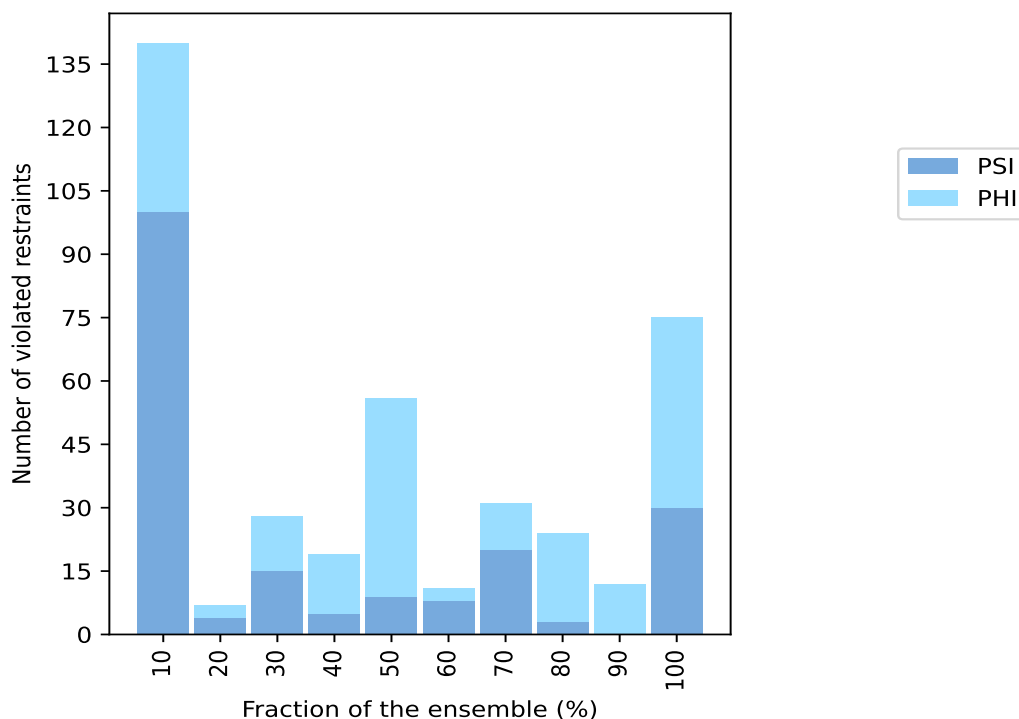
### 10.3 Dihedral-angle violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in very 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 ensemble.

Number of violated restraints			Fraction of the ensemble	
PSI	PHI	Total	Count <sup>1</sup>	%
100	40	140	1	10.0
4	3	7	2	20.0
15	13	28	3	30.0
5	14	19	4	40.0
9	47	56	5	50.0
8	3	11	6	60.0
20	11	31	7	70.0
3	21	24	8	80.0
0	12	12	9	90.0
30	45	75	10	100.0

<sup>1</sup> Number of models with violations

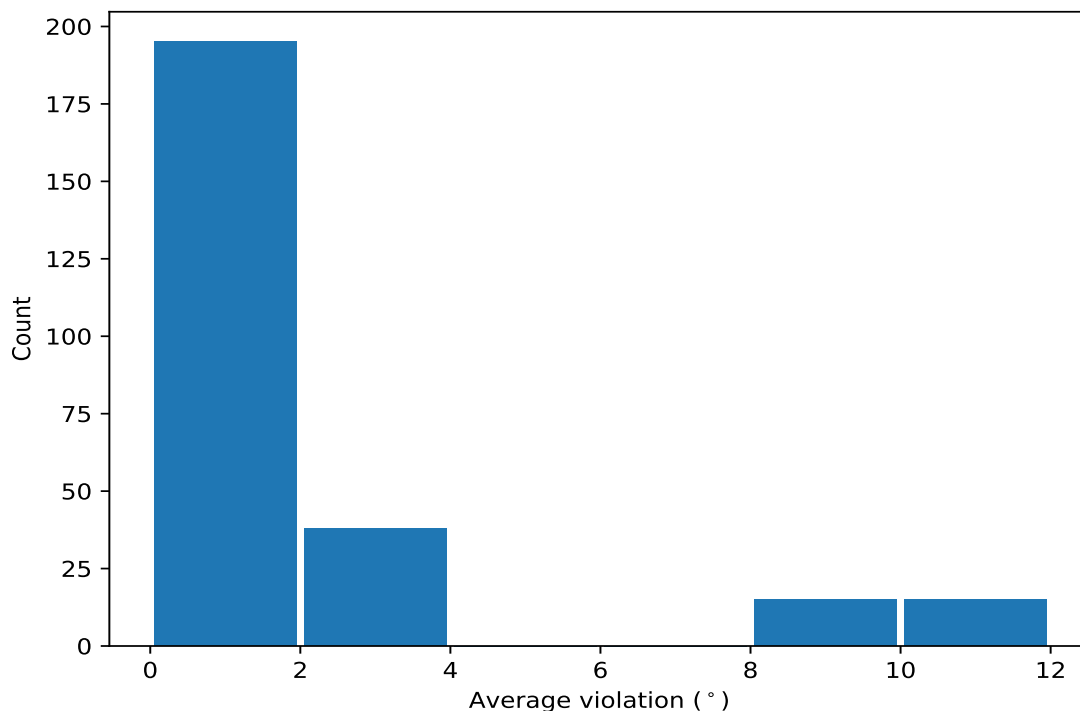
#### 10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



## 10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

### 10.4.1 Histogram : Distribution of mean dihedral-angle violations [i](#)

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



### 10.4.2 Table: Most violated dihedral-angle 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.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	10	10.9	1.32	10.3
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	10	10.9	1.32	10.3
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	10	10.89	1.32	10.3
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	10	10.88	1.31	10.3
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	10	10.88	1.33	10.3
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	10	10.87	1.33	10.25
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	10	10.87	1.31	10.25
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	10	10.87	1.34	10.3
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	10	10.87	1.28	10.3
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	10	10.87	1.29	10.3
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	10	10.87	1.31	10.3
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	10	10.86	1.31	10.25
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	10	10.86	1.34	10.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	10	10.85	1.29	10.25
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	10	10.84	1.3	10.3
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	10	9.38	0.78	9.6
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	10	9.35	0.78	9.6
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	10	9.35	0.78	9.55
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	10	9.33	0.74	9.55
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	10	9.33	0.77	9.5
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	10	9.31	0.78	9.55
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	10	9.31	0.79	9.55
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	10	9.31	0.76	9.55
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	10	9.3	0.78	9.5
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	10	9.3	0.76	9.5
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	10	9.29	0.81	9.5
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	10	9.28	0.74	9.45
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	10	9.27	0.76	9.5
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	10	9.27	0.77	9.5
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	10	9.27	0.77	9.5
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	10	2.41	0.28	2.45
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	10	2.41	0.29	2.4
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	10	2.41	0.28	2.45
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	10	2.41	0.29	2.4
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	10	2.4	0.26	2.4
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	10	2.4	0.29	2.4
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	10	2.39	0.28	2.4
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	10	2.39	0.28	2.4
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	10	2.38	0.28	2.35
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	10	2.38	0.29	2.4
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	10	2.37	0.29	2.35
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	10	2.37	0.29	2.35
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	10	2.37	0.29	2.35
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	10	2.36	0.27	2.4
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	10	2.36	0.28	2.35
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	10	1.83	0.32	1.85
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	10	1.82	0.32	1.8
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	10	1.81	0.32	1.8
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	10	1.81	0.34	1.8
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	10	1.8	0.28	1.65
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	10	1.79	0.25	1.75
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	10	1.79	0.25	1.7
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	10	1.78	0.24	1.75
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	10	1.77	0.25	1.75
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	10	1.77	0.25	1.7
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	10	1.76	0.25	1.7
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	10	1.76	0.27	1.7
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	10	1.76	0.33	1.75
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	10	1.75	0.25	1.65
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	10	1.75	0.25	1.7
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	10	1.75	0.32	1.7
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	10	1.75	0.29	1.65
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	10	1.74	0.31	1.75
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	10	1.74	0.35	1.75

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	10	1.74	0.32	1.75
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	10	1.72	0.27	1.65
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	10	1.72	0.35	1.7
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	10	1.72	0.35	1.7
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	10	1.72	0.33	1.7
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	10	1.72	0.33	1.7
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	10	1.71	0.32	1.7
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	10	1.71	0.35	1.7
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	10	1.69	0.3	1.6
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	10	1.69	0.27	1.6
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	10	1.66	0.26	1.65
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	9	1.33	0.25	1.2
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	9	1.32	0.17	1.3
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	9	1.31	0.17	1.3
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	9	1.31	0.17	1.3
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	9	1.31	0.14	1.2
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	9	1.31	0.17	1.3
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	9	1.3	0.16	1.3
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	9	1.3	0.18	1.2
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	9	1.29	0.15	1.2
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	9	1.29	0.16	1.2
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	9	1.28	0.16	1.2
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	9	1.28	0.15	1.2
(1,343)	1:C:74:ARG:C	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	8	1.95	0.72	1.8
(1,1043)	1:H:74:ARG:C	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	8	1.95	0.72	1.8
(1,1463)	1:K:74:ARG:C	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	8	1.95	0.71	1.8
(1,1603)	1:L:74:ARG:C	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	8	1.95	0.68	1.8
(1,763)	1:F:74:ARG:C	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	8	1.94	0.63	1.8
(1,483)	1:D:74:ARG:C	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	8	1.92	0.7	1.75
(1,623)	1:E:74:ARG:C	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	8	1.92	0.73	1.75
(1,1323)	1:J:74:ARG:C	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	8	1.9	0.68	1.75
(1,203)	1:B:74:ARG:C	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	8	1.89	0.68	1.7
(1,1743)	1:M:74:ARG:C	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	8	1.89	0.7	1.7
(1,2023)	1:O:74:ARG:C	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	8	1.89	0.68	1.7
(1,1883)	1:N:74:ARG:C	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	8	1.86	0.66	1.65
(1,598)	1:E:45:LEU:C	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	8	1.36	0.25	1.3
(1,1718)	1:M:45:LEU:C	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	8	1.35	0.23	1.25
(1,178)	1:B:45:LEU:C	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	8	1.34	0.23	1.25
(1,1438)	1:K:45:LEU:C	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	8	1.34	0.23	1.25
(1,443)	1:D:26:LYS:C	1:D:27:LEU:N	1:D:27:LEU:CA	1:D:27:LEU:C	8	1.32	0.16	1.3
(1,738)	1:F:45:LEU:C	1:F:46:GLN:N	1:F:46:GLN:CA	1:F:46:GLN:C	8	1.32	0.23	1.25
(1,1018)	1:H:45:LEU:C	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	8	1.31	0.25	1.2
(1,1983)	1:O:26:LYS:C	1:O:27:LEU:N	1:O:27:LEU:CA	1:O:27:LEU:C	8	1.3	0.12	1.3
(1,1703)	1:M:26:LYS:C	1:M:27:LEU:N	1:M:27:LEU:CA	1:M:27:LEU:C	8	1.26	0.13	1.25
(1,1474)	1:K:7:ALA:N	1:K:7:ALA:CA	1:K:7:ALA:C	1:K:8:ILE:N	8	1.24	0.09	1.2
(1,354)	1:C:7:ALA:N	1:C:7:ALA:CA	1:C:7:ALA:C	1:C:8:ILE:N	8	1.21	0.08	1.2
(1,1894)	1:N:7:ALA:N	1:N:7:ALA:CA	1:N:7:ALA:C	1:N:8:ILE:N	8	1.2	0.07	1.2
(1,903)	1:G:74:ARG:C	1:G:75:ASP:N	1:G:75:ASP:CA	1:G:75:ASP:C	7	2.0	0.65	1.7
(1,63)	1:A:74:ARG:C	1:A:75:ASP:N	1:A:75:ASP:CA	1:A:75:ASP:C	7	1.97	0.69	1.7
(1,1183)	1:I:74:ARG:C	1:I:75:ASP:N	1:I:75:ASP:CA	1:I:75:ASP:C	7	1.93	0.65	1.7
(1,1484)	1:K:18:ASP:N	1:K:18:ASP:CA	1:K:18:ASP:C	1:K:19:GLU:N	7	1.39	0.26	1.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,84)	1:A:18:ASP:N	1:A:18:ASP:CA	1:A:18:ASP:C	1:A:19:GLU:N	7	1.39	0.25	1.4
(1,364)	1:C:18:ASP:N	1:C:18:ASP:CA	1:C:18:ASP:C	1:C:19:GLU:N	7	1.37	0.22	1.4
(1,458)	1:D:45:LEU:C	1:D:46:GLN:N	1:D:46:GLN:CA	1:D:46:GLN:C	7	1.37	0.24	1.3
(1,504)	1:D:18:ASP:N	1:D:18:ASP:CA	1:D:18:ASP:C	1:D:19:GLU:N	7	1.37	0.26	1.4
(1,644)	1:E:18:ASP:N	1:E:18:ASP:CA	1:E:18:ASP:C	1:E:19:GLU:N	7	1.37	0.22	1.4
(1,1158)	1:I:45:LEU:C	1:I:46:GLN:N	1:I:46:GLN:CA	1:I:46:GLN:C	7	1.37	0.25	1.4
(1,1344)	1:J:18:ASP:N	1:J:18:ASP:CA	1:J:18:ASP:C	1:J:19:GLU:N	7	1.37	0.26	1.4
(1,1904)	1:N:18:ASP:N	1:N:18:ASP:CA	1:N:18:ASP:C	1:N:19:GLU:N	7	1.37	0.25	1.3
(1,224)	1:B:18:ASP:N	1:B:18:ASP:CA	1:B:18:ASP:C	1:B:19:GLU:N	7	1.34	0.21	1.3
(1,878)	1:G:45:LEU:C	1:G:46:GLN:N	1:G:46:GLN:CA	1:G:46:GLN:C	7	1.34	0.22	1.3
(1,1064)	1:H:18:ASP:N	1:H:18:ASP:CA	1:H:18:ASP:C	1:H:19:GLU:N	7	1.34	0.26	1.3
(1,1204)	1:I:18:ASP:N	1:I:18:ASP:CA	1:I:18:ASP:C	1:I:19:GLU:N	7	1.34	0.21	1.3
(1,1578)	1:L:45:LEU:C	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	7	1.34	0.24	1.3
(1,38)	1:A:45:LEU:C	1:A:46:GLN:N	1:A:46:GLN:CA	1:A:46:GLN:C	7	1.33	0.23	1.3
(1,318)	1:C:45:LEU:C	1:C:46:GLN:N	1:C:46:GLN:CA	1:C:46:GLN:C	7	1.33	0.23	1.3
(1,1298)	1:J:45:LEU:C	1:J:46:GLN:N	1:J:46:GLN:CA	1:J:46:GLN:C	7	1.33	0.23	1.3
(1,784)	1:F:18:ASP:N	1:F:18:ASP:CA	1:F:18:ASP:C	1:F:19:GLU:N	7	1.33	0.22	1.3
(1,1624)	1:L:18:ASP:N	1:L:18:ASP:CA	1:L:18:ASP:C	1:L:19:GLU:N	7	1.33	0.22	1.3
(1,1764)	1:M:18:ASP:N	1:M:18:ASP:CA	1:M:18:ASP:C	1:M:19:GLU:N	7	1.31	0.24	1.3
(1,2044)	1:O:18:ASP:N	1:O:18:ASP:CA	1:O:18:ASP:C	1:O:19:GLU:N	7	1.31	0.22	1.3
(1,1423)	1:K:26:LYS:C	1:K:27:LEU:N	1:K:27:LEU:CA	1:K:27:LEU:C	7	1.29	0.16	1.3
(1,1194)	1:I:7:ALA:N	1:I:7:ALA:CA	1:I:7:ALA:C	1:I:8:ILE:N	7	1.26	0.07	1.2
(1,214)	1:B:7:ALA:N	1:B:7:ALA:CA	1:B:7:ALA:C	1:B:8:ILE:N	7	1.21	0.1	1.2
(1,914)	1:G:7:ALA:N	1:G:7:ALA:CA	1:G:7:ALA:C	1:G:8:ILE:N	7	1.21	0.11	1.2
(1,1334)	1:J:7:ALA:N	1:J:7:ALA:CA	1:J:7:ALA:C	1:J:8:ILE:N	7	1.19	0.06	1.2
(1,494)	1:D:7:ALA:N	1:D:7:ALA:CA	1:D:7:ALA:C	1:D:8:ILE:N	7	1.14	0.05	1.1
(1,634)	1:E:7:ALA:N	1:E:7:ALA:CA	1:E:7:ALA:C	1:E:8:ILE:N	7	1.14	0.05	1.1
(1,611)	1:E:58:SER:C	1:E:59:TYR:N	1:E:59:TYR:CA	1:E:59:TYR:C	6	1.42	0.21	1.45
(1,924)	1:G:18:ASP:N	1:G:18:ASP:CA	1:G:18:ASP:C	1:G:19:GLU:N	6	1.4	0.26	1.35
(1,1998)	1:O:45:LEU:C	1:O:46:GLN:N	1:O:46:GLN:CA	1:O:46:GLN:C	6	1.38	0.25	1.35
(1,1976)	1:O:19:GLU:C	1:O:20:LEU:N	1:O:20:LEU:CA	1:O:20:LEU:C	6	1.38	0.23	1.35
(1,1054)	1:H:7:ALA:N	1:H:7:ALA:CA	1:H:7:ALA:C	1:H:8:ILE:N	6	1.23	0.05	1.2
(1,2069)	1:O:47:MET:N	1:O:47:MET:CA	1:O:47:MET:C	1:O:48:ASP:N	6	1.2	0.1	1.2
(1,774)	1:F:7:ALA:N	1:F:7:ALA:CA	1:F:7:ALA:C	1:F:8:ILE:N	6	1.18	0.09	1.15
(1,1754)	1:M:7:ALA:N	1:M:7:ALA:CA	1:M:7:ALA:C	1:M:8:ILE:N	6	1.18	0.07	1.2
(1,1614)	1:L:7:ALA:N	1:L:7:ALA:CA	1:L:7:ALA:C	1:L:8:ILE:N	6	1.15	0.05	1.15
(1,74)	1:A:7:ALA:N	1:A:7:ALA:CA	1:A:7:ALA:C	1:A:8:ILE:N	6	1.13	0.05	1.1
(1,2034)	1:O:7:ALA:N	1:O:7:ALA:CA	1:O:7:ALA:C	1:O:8:ILE:N	6	1.13	0.05	1.1
(1,190)	1:B:57:VAL:C	1:B:58:SER:N	1:B:58:SER:CA	1:B:58:SER:C	5	1.56	0.22	1.6
(1,470)	1:D:57:VAL:C	1:D:58:SER:N	1:D:58:SER:CA	1:D:58:SER:C	5	1.56	0.21	1.5
(1,1450)	1:K:57:VAL:C	1:K:58:SER:N	1:K:58:SER:CA	1:K:58:SER:C	5	1.54	0.19	1.5
(1,2010)	1:O:57:VAL:C	1:O:58:SER:N	1:O:58:SER:CA	1:O:58:SER:C	5	1.54	0.22	1.6
(1,50)	1:A:57:VAL:C	1:A:58:SER:N	1:A:58:SER:CA	1:A:58:SER:C	5	1.52	0.2	1.5
(1,1310)	1:J:57:VAL:C	1:J:58:SER:N	1:J:58:SER:CA	1:J:58:SER:C	5	1.52	0.2	1.5
(1,1590)	1:L:57:VAL:C	1:L:58:SER:N	1:L:58:SER:CA	1:L:58:SER:C	5	1.52	0.23	1.6
(1,1730)	1:M:57:VAL:C	1:M:58:SER:N	1:M:58:SER:CA	1:M:58:SER:C	5	1.52	0.2	1.5
(1,331)	1:C:58:SER:C	1:C:59:TYR:N	1:C:59:TYR:CA	1:C:59:TYR:C	5	1.5	0.18	1.6
(1,890)	1:G:57:VAL:C	1:G:58:SER:N	1:G:58:SER:CA	1:G:58:SER:C	5	1.5	0.23	1.5
(1,1030)	1:H:57:VAL:C	1:H:58:SER:N	1:H:58:SER:CA	1:H:58:SER:C	5	1.5	0.23	1.5
(1,1871)	1:N:58:SER:C	1:N:59:TYR:N	1:N:59:TYR:CA	1:N:59:TYR:C	5	1.5	0.15	1.6
(1,1170)	1:I:57:VAL:C	1:I:58:SER:N	1:I:58:SER:CA	1:I:58:SER:C	5	1.5	0.19	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,750)	1:F:57:VAL:C	1:F:58:SER:N	1:F:58:SER:CA	1:F:58:SER:C	5	1.48	0.2	1.5
(1,1870)	1:N:57:VAL:C	1:N:58:SER:N	1:N:58:SER:CA	1:N:58:SER:C	5	1.46	0.19	1.5
(1,610)	1:E:57:VAL:C	1:E:58:SER:N	1:E:58:SER:CA	1:E:58:SER:C	5	1.46	0.21	1.4
(1,16)	1:A:19:GLU:C	1:A:20:LEU:N	1:A:20:LEU:CA	1:A:20:LEU:C	5	1.46	0.22	1.4
(1,1311)	1:J:58:SER:C	1:J:59:TYR:N	1:J:59:TYR:CA	1:J:59:TYR:C	5	1.44	0.19	1.5
(1,51)	1:A:58:SER:C	1:A:59:TYR:N	1:A:59:TYR:CA	1:A:59:TYR:C	5	1.44	0.19	1.5
(1,191)	1:B:58:SER:C	1:B:59:TYR:N	1:B:59:TYR:CA	1:B:59:TYR:C	5	1.44	0.19	1.5
(1,330)	1:C:57:VAL:C	1:C:58:SER:N	1:C:58:SER:CA	1:C:58:SER:C	5	1.44	0.22	1.4
(1,471)	1:D:58:SER:C	1:D:59:TYR:N	1:D:59:TYR:CA	1:D:59:TYR:C	5	1.44	0.17	1.5
(1,751)	1:F:58:SER:C	1:F:59:TYR:N	1:F:59:TYR:CA	1:F:59:TYR:C	5	1.44	0.19	1.5
(1,1171)	1:I:58:SER:C	1:I:59:TYR:N	1:I:59:TYR:CA	1:I:59:TYR:C	5	1.44	0.19	1.5
(1,1731)	1:M:58:SER:C	1:M:59:TYR:N	1:M:59:TYR:CA	1:M:59:TYR:C	5	1.44	0.12	1.5
(1,716)	1:F:19:GLU:C	1:F:20:LEU:N	1:F:20:LEU:CA	1:F:20:LEU:C	5	1.42	0.19	1.3
(1,891)	1:G:58:SER:C	1:G:59:TYR:N	1:G:59:TYR:CA	1:G:59:TYR:C	5	1.42	0.17	1.5
(1,1031)	1:H:58:SER:C	1:H:59:TYR:N	1:H:59:TYR:CA	1:H:59:TYR:C	5	1.42	0.17	1.5
(1,1136)	1:I:19:GLU:C	1:I:20:LEU:N	1:I:20:LEU:CA	1:I:20:LEU:C	5	1.42	0.23	1.4
(1,1416)	1:K:19:GLU:C	1:K:20:LEU:N	1:K:20:LEU:CA	1:K:20:LEU:C	5	1.42	0.19	1.3
(1,2011)	1:O:58:SER:C	1:O:59:TYR:N	1:O:59:TYR:CA	1:O:59:TYR:C	5	1.42	0.17	1.5
(1,296)	1:C:19:GLU:C	1:C:20:LEU:N	1:C:20:LEU:CA	1:C:20:LEU:C	5	1.4	0.18	1.3
(1,1451)	1:K:58:SER:C	1:K:59:TYR:N	1:K:59:TYR:CA	1:K:59:TYR:C	5	1.4	0.15	1.5
(1,1591)	1:L:58:SER:C	1:L:59:TYR:N	1:L:59:TYR:CA	1:L:59:TYR:C	5	1.4	0.18	1.5
(1,1836)	1:N:19:GLU:C	1:N:20:LEU:N	1:N:20:LEU:CA	1:N:20:LEU:C	5	1.4	0.2	1.4
(1,1276)	1:J:19:GLU:C	1:J:20:LEU:N	1:J:20:LEU:CA	1:J:20:LEU:C	5	1.38	0.19	1.3
(1,1696)	1:M:19:GLU:C	1:M:20:LEU:N	1:M:20:LEU:CA	1:M:20:LEU:C	5	1.38	0.22	1.2
(1,436)	1:D:19:GLU:C	1:D:20:LEU:N	1:D:20:LEU:CA	1:D:20:LEU:C	5	1.38	0.19	1.3
(1,996)	1:H:19:GLU:C	1:H:20:LEU:N	1:H:20:LEU:CA	1:H:20:LEU:C	5	1.36	0.22	1.3
(1,1556)	1:L:19:GLU:C	1:L:20:LEU:N	1:L:20:LEU:CA	1:L:20:LEU:C	5	1.36	0.16	1.3
(1,576)	1:E:19:GLU:C	1:E:20:LEU:N	1:E:20:LEU:CA	1:E:20:LEU:C	5	1.34	0.19	1.3
(1,156)	1:B:19:GLU:C	1:B:20:LEU:N	1:B:20:LEU:CA	1:B:20:LEU:C	5	1.34	0.21	1.3
(1,856)	1:G:19:GLU:C	1:G:20:LEU:N	1:G:20:LEU:CA	1:G:20:LEU:C	5	1.32	0.17	1.3
(1,428)	1:D:10:ASP:C	1:D:11:ALA:N	1:D:11:ALA:CA	1:D:11:ALA:C	5	1.24	0.15	1.2
(1,109)	1:A:47:MET:N	1:A:47:MET:CA	1:A:47:MET:C	1:A:48:ASP:N	5	1.22	0.1	1.2
(1,288)	1:C:10:ASP:C	1:C:11:ALA:N	1:C:11:ALA:CA	1:C:11:ALA:C	5	1.22	0.16	1.1
(1,1688)	1:M:10:ASP:C	1:M:11:ALA:N	1:M:11:ALA:CA	1:M:11:ALA:C	5	1.22	0.16	1.1
(1,949)	1:G:47:MET:N	1:G:47:MET:CA	1:G:47:MET:C	1:G:48:ASP:N	5	1.2	0.06	1.2
(1,1369)	1:J:47:MET:N	1:J:47:MET:CA	1:J:47:MET:C	1:J:48:ASP:N	5	1.2	0.11	1.2
(1,1929)	1:N:47:MET:N	1:N:47:MET:CA	1:N:47:MET:C	1:N:48:ASP:N	5	1.2	0.06	1.2
(1,148)	1:B:10:ASP:C	1:B:11:ALA:N	1:B:11:ALA:CA	1:B:11:ALA:C	5	1.2	0.13	1.1
(1,669)	1:E:47:MET:N	1:E:47:MET:CA	1:E:47:MET:C	1:E:48:ASP:N	5	1.2	0.11	1.2
(1,529)	1:D:47:MET:N	1:D:47:MET:CA	1:D:47:MET:C	1:D:48:ASP:N	5	1.18	0.12	1.1
(1,1089)	1:H:47:MET:N	1:H:47:MET:CA	1:H:47:MET:C	1:H:48:ASP:N	5	1.18	0.07	1.2
(1,1649)	1:L:47:MET:N	1:L:47:MET:CA	1:L:47:MET:C	1:L:48:ASP:N	5	1.16	0.08	1.1
(1,1229)	1:I:47:MET:N	1:I:47:MET:CA	1:I:47:MET:C	1:I:48:ASP:N	5	1.16	0.08	1.1
(1,30)	1:A:37:GLY:C	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	4	1.95	0.8	1.95
(1,1010)	1:H:37:GLY:C	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	4	1.95	0.8	1.95
(1,1570)	1:L:37:GLY:C	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	4	1.95	0.8	1.95
(1,450)	1:D:37:GLY:C	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	4	1.92	0.83	1.9
(1,730)	1:F:37:GLY:C	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	4	1.92	0.78	1.9
(1,1150)	1:I:37:GLY:C	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	4	1.92	0.78	1.95
(1,1430)	1:K:37:GLY:C	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	4	1.9	0.8	1.9
(1,590)	1:E:37:GLY:C	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	4	1.88	0.78	1.85

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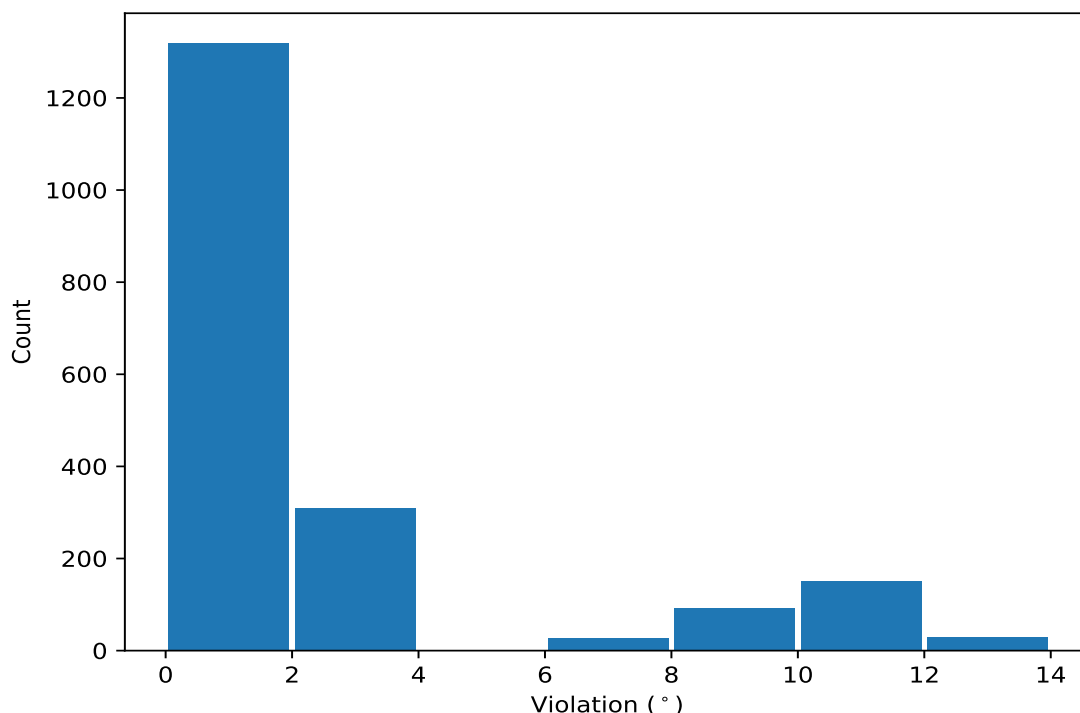
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models <sup>1</sup>	Mean	SD <sup>2</sup>	Median
(1,1968)	1:O:10:ASP:C	1:O:11:ALA:N	1:O:11:ALA:CA	1:O:11:ALA:C	4	1.27	0.15	1.25
(1,1828)	1:N:10:ASP:C	1:N:11:ALA:N	1:N:11:ALA:CA	1:N:11:ALA:C	4	1.23	0.16	1.15
(1,249)	1:B:47:MET:N	1:B:47:MET:CA	1:B:47:MET:C	1:B:48:ASP:N	4	1.22	0.11	1.2
(1,389)	1:C:47:MET:N	1:C:47:MET:CA	1:C:47:MET:C	1:C:48:ASP:N	4	1.22	0.11	1.2
(1,1509)	1:K:47:MET:N	1:K:47:MET:CA	1:K:47:MET:C	1:K:48:ASP:N	4	1.22	0.11	1.2
(1,8)	1:A:10:ASP:C	1:A:11:ALA:N	1:A:11:ALA:CA	1:A:11:ALA:C	4	1.2	0.12	1.15
(1,568)	1:E:10:ASP:C	1:E:11:ALA:N	1:E:11:ALA:CA	1:E:11:ALA:C	4	1.2	0.12	1.15
(1,988)	1:H:10:ASP:C	1:H:11:ALA:N	1:H:11:ALA:CA	1:H:11:ALA:C	4	1.2	0.12	1.15
(1,1789)	1:M:47:MET:N	1:M:47:MET:CA	1:M:47:MET:C	1:M:48:ASP:N	4	1.2	0.07	1.2
(1,809)	1:F:47:MET:N	1:F:47:MET:CA	1:F:47:MET:C	1:F:48:ASP:N	4	1.15	0.09	1.1
(1,1599)	1:L:70:MET:C	1:L:71:THR:N	1:L:71:THR:CA	1:L:71:THR:C	4	1.1	0.0	1.1
(1,1350)	1:J:24:LYS:N	1:J:24:LYS:CA	1:J:24:LYS:C	1:J:25:MET:N	3	2.37	0.5	2.5
(1,90)	1:A:24:LYS:N	1:A:24:LYS:CA	1:A:24:LYS:C	1:A:25:MET:N	3	2.3	0.45	2.4
(1,370)	1:C:24:LYS:N	1:C:24:LYS:CA	1:C:24:LYS:C	1:C:25:MET:N	3	2.3	0.45	2.4
(1,790)	1:F:24:LYS:N	1:F:24:LYS:CA	1:F:24:LYS:C	1:F:25:MET:N	3	2.3	0.45	2.4
(1,1910)	1:N:24:LYS:N	1:N:24:LYS:CA	1:N:24:LYS:C	1:N:25:MET:N	3	2.3	0.51	2.5
(1,170)	1:B:37:GLY:C	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	3	2.27	0.75	2.8
(1,230)	1:B:24:LYS:N	1:B:24:LYS:CA	1:B:24:LYS:C	1:B:25:MET:N	3	2.27	0.5	2.4
(1,930)	1:G:24:LYS:N	1:G:24:LYS:CA	1:G:24:LYS:C	1:G:25:MET:N	3	2.27	0.5	2.4
(1,1210)	1:I:24:LYS:N	1:I:24:LYS:CA	1:I:24:LYS:C	1:I:25:MET:N	3	2.27	0.5	2.4
(1,1490)	1:K:24:LYS:N	1:K:24:LYS:CA	1:K:24:LYS:C	1:K:25:MET:N	3	2.27	0.5	2.4
(1,650)	1:E:24:LYS:N	1:E:24:LYS:CA	1:E:24:LYS:C	1:E:25:MET:N	3	2.23	0.46	2.4
(1,1070)	1:H:24:LYS:N	1:H:24:LYS:CA	1:H:24:LYS:C	1:H:25:MET:N	3	2.23	0.46	2.4
(1,1850)	1:N:37:GLY:C	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	3	2.23	0.73	2.7
(1,1770)	1:M:24:LYS:N	1:M:24:LYS:CA	1:M:24:LYS:C	1:M:25:MET:N	3	2.23	0.49	2.3
(1,2050)	1:O:24:LYS:N	1:O:24:LYS:CA	1:O:24:LYS:C	1:O:25:MET:N	3	2.23	0.49	2.3
(1,510)	1:D:24:LYS:N	1:D:24:LYS:CA	1:D:24:LYS:C	1:D:25:MET:N	3	2.2	0.45	2.3
(1,1290)	1:J:37:GLY:C	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	3	2.2	0.71	2.6
(1,1630)	1:L:24:LYS:N	1:L:24:LYS:CA	1:L:24:LYS:C	1:L:25:MET:N	3	2.2	0.43	2.4
(1,1990)	1:O:37:GLY:C	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	3	2.2	0.71	2.6
(1,870)	1:G:37:GLY:C	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	3	2.17	0.75	2.7
(1,1710)	1:M:37:GLY:C	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	3	2.17	0.75	2.7
(1,310)	1:C:37:GLY:C	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	3	2.13	0.73	2.6
(1,1128)	1:I:10:ASP:C	1:I:11:ALA:N	1:I:11:ALA:CA	1:I:11:ALA:C	3	1.33	0.12	1.3
(1,1408)	1:K:10:ASP:C	1:K:11:ALA:N	1:K:11:ALA:CA	1:K:11:ALA:C	3	1.27	0.12	1.3
(1,848)	1:G:10:ASP:C	1:G:11:ALA:N	1:G:11:ALA:CA	1:G:11:ALA:C	3	1.27	0.17	1.2
(1,1268)	1:J:10:ASP:C	1:J:11:ALA:N	1:J:11:ALA:CA	1:J:11:ALA:C	3	1.23	0.12	1.2
(1,1879)	1:N:70:MET:C	1:N:71:THR:N	1:N:71:THR:CA	1:N:71:THR:C	3	1.1	0.0	1.1
(1,2019)	1:O:70:MET:C	1:O:71:THR:N	1:O:71:THR:CA	1:O:71:THR:C	3	1.1	0.0	1.1
(1,1548)	1:L:10:ASP:C	1:L:11:ALA:N	1:L:11:ALA:CA	1:L:11:ALA:C	2	1.35	0.05	1.35
(1,708)	1:F:10:ASP:C	1:F:11:ALA:N	1:F:11:ALA:CA	1:F:11:ALA:C	2	1.3	0.1	1.3
(1,2049)	1:O:23:PHE:N	1:O:23:PHE:CA	1:O:23:PHE:C	1:O:24:LYS:N	2	1.15	0.05	1.15
(1,668)	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	1:E:47:MET:N	2	1.1	0.0	1.1
(1,1648)	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	1:L:47:MET:N	2	1.1	0.0	1.1
(1,1739)	1:M:70:MET:C	1:M:71:THR:N	1:M:71:THR:CA	1:M:71:THR:C	2	1.1	0.0	1.1
(1,1788)	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	1:M:47:MET:N	2	1.1	0.0	1.1

<sup>1</sup> Number of violated models, <sup>2</sup>Standard deviation, All angle values are in degree (°)

## 10.5 All violated dihedral-angle restraints [i](#)

### 10.5.1 Histogram : Distribution of violations [i](#)

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



### 10.5.2 Table: All violated dihedral-angle restraints [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.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	10	13.9
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	10	13.9
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	10	13.9
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	10	13.9
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	10	13.9
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	10	13.9
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	10	13.9
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	10	13.9
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	10	13.9
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	10	13.8
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	10	13.8
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	10	13.8
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	10	13.8
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	10	13.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	10	13.8
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	7	13.1
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	7	13.1
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	7	13.1
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	7	13.1
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	7	13.1
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	7	13.1
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	7	13.1
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	7	13.1
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	7	13.1
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	7	13.0
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	7	13.0
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	7	13.0
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	7	13.0
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	7	13.0
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	7	13.0
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	3	10.5
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	3	10.5
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	3	10.5
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	3	10.5
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	3	10.5
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	3	10.5
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	3	10.5
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	3	10.5
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	3	10.5
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	3	10.5
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	3	10.5
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	3	10.5
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	3	10.5
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	3	10.5
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	3	10.5
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	8	10.4
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	8	10.4
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	8	10.4
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	8	10.4
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	9	10.4
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	1	10.3
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	9	10.3
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	8	10.3
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	9	10.3
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	8	10.3
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	9	10.3
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	1	10.3
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	9	10.3
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	8	10.3
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	9	10.3
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	1	10.3
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	9	10.3
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	1	10.3
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	8	10.3
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	9	10.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	1	10.3
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	8	10.3
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	9	10.3
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	1	10.3
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	8	10.3
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	9	10.3
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	1	10.3
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	8	10.3
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	9	10.3
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	1	10.3
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	9	10.3
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	8	10.3
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	1	10.3
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	8	10.3
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	9	10.3
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	1	10.3
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	8	10.3
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	9	10.3
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	1	10.3
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	8	10.3
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	9	10.3
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	5	10.2
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	1	10.2
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	5	10.2
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	3	10.2
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	1	10.2
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	5	10.2
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	5	10.2
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	1	10.2
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	5	10.2
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	5	10.2
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	5	10.2
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	5	10.2
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	5	10.2
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	5	10.2
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	5	10.2
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	1	10.2
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	5	10.2
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	5	10.2
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	5	10.2
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	5	10.2
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	2	10.1
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	4	10.1
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	3	10.1
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	2	10.1
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	6	10.1
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	1	10.1
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	2	10.1
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	4	10.1
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	1	10.1
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	2	10.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	4	10.1
(1,520)	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1:D:39:ILE:N	6	10.1
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	1	10.1
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	3	10.1
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	2	10.1
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	6	10.1
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	1	10.1
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	3	10.1
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	3	10.1
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	2	10.1
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	4	10.1
(1,240)	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	1:B:39:ILE:N	6	10.1
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	2	10.1
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	4	10.1
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	3	10.1
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	2	10.1
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	4	10.1
(1,1780)	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	1:M:39:ILE:N	6	10.1
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	1	10.1
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	3	10.1
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	2	10.1
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	4	10.1
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	1	10.1
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	2	10.1
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	6	10.1
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	1	10.1
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	3	10.1
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	2	10.1
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	4	10.1
(1,1220)	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1:I:39:ILE:N	6	10.1
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	2	10.1
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	4	10.1
(1,100)	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1:A:39:ILE:N	6	10.1
(1,940)	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	1:G:39:ILE:N	6	10.0
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	1	10.0
(1,800)	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1:F:39:ILE:N	4	10.0
(1,660)	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1:E:39:ILE:N	6	10.0
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	3	10.0
(1,380)	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	1:C:39:ILE:N	4	10.0
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	1	10.0
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	2	10.0
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	4	10.0
(1,2060)	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	1:O:39:ILE:N	6	10.0
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	1	10.0
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	3	10.0
(1,1920)	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	1:N:39:ILE:N	6	10.0
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	1	10.0
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	1	10.0
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	3	10.0
(1,1640)	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1:L:39:ILE:N	6	10.0
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	1	10.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	3	10.0
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	2	10.0
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	4	10.0
(1,1500)	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1:K:39:ILE:N	6	10.0
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	3	10.0
(1,1360)	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	1:J:39:ILE:N	4	10.0
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	1	10.0
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	3	10.0
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	2	10.0
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	4	10.0
(1,1080)	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1:H:39:ILE:N	6	10.0
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	1	10.0
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	3	10.0
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	9	9.9
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	9	9.9
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	9	9.9
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	9	9.8
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	9	9.8
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	9	9.8
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	9	9.8
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	9	9.8
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	9	9.8
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	9	9.8
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	9	9.8
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	9	9.8
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	9	9.8
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	9	9.8
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	4	9.7
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	9	9.7
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	4	9.6
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	6	9.6
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	8	9.6
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	6	9.6
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	4	9.6
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	4	9.6
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	6	9.6
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	8	9.6
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	4	9.6
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	4	9.6
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	6	9.6
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	6	9.6
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	4	9.6
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	6	9.6
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	4	9.6
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	6	9.6
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	6	9.6
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	4	9.6
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	4	9.6
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	8	9.6
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	4	9.5
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	6	9.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	2	9.5
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	5	9.5
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	4	9.5
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	8	9.5
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	2	9.5
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	5	9.5
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	6	9.5
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	8	9.5
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	5	9.5
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	5	9.5
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	6	9.5
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	8	9.5
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	4	9.5
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	5	9.5
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	6	9.5
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	8	9.5
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	4	9.5
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	5	9.5
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	6	9.5
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	8	9.5
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	4	9.5
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	5	9.5
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	5	9.5
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	8	9.5
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	5	9.5
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	8	9.5
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	2	9.5
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	5	9.5
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	8	9.5
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	6	9.5
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	8	9.5
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	2	9.5
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	5	9.5
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	6	9.5
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	5	9.4
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	8	9.4
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	2	9.4
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	5	9.4
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	2	9.4
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	2	9.4
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	2	9.4
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	8	9.4
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	2	9.4
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	5	9.4
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	2	9.4
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	8	9.4
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	2	9.4
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	2	9.4
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	2	9.4
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	5	9.4
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	2	9.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	2	9.3
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	7	8.0
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	7	8.0
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	7	8.0
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	7	7.9
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	7	7.9
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	7	7.9
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	7	7.9
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	7	7.9
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	7	7.9
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	7	7.9
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	7	7.9
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	7	7.9
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	7	7.9
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	7	7.9
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	7	7.9
(1,871)	1:G:38:ARG:C	1:G:39:ILE:N	1:G:39:ILE:CA	1:G:39:ILE:C	10	7.8
(1,731)	1:F:38:ARG:C	1:F:39:ILE:N	1:F:39:ILE:CA	1:F:39:ILE:C	10	7.8
(1,591)	1:E:38:ARG:C	1:E:39:ILE:N	1:E:39:ILE:CA	1:E:39:ILE:C	10	7.8
(1,451)	1:D:38:ARG:C	1:D:39:ILE:N	1:D:39:ILE:CA	1:D:39:ILE:C	10	7.8
(1,311)	1:C:38:ARG:C	1:C:39:ILE:N	1:C:39:ILE:CA	1:C:39:ILE:C	10	7.8
(1,1851)	1:N:38:ARG:C	1:N:39:ILE:N	1:N:39:ILE:CA	1:N:39:ILE:C	10	7.8
(1,1291)	1:J:38:ARG:C	1:J:39:ILE:N	1:J:39:ILE:CA	1:J:39:ILE:C	10	7.8
(1,1011)	1:H:38:ARG:C	1:H:39:ILE:N	1:H:39:ILE:CA	1:H:39:ILE:C	10	7.8
(1,31)	1:A:38:ARG:C	1:A:39:ILE:N	1:A:39:ILE:CA	1:A:39:ILE:C	10	7.7
(1,1991)	1:O:38:ARG:C	1:O:39:ILE:N	1:O:39:ILE:CA	1:O:39:ILE:C	10	7.7
(1,1711)	1:M:38:ARG:C	1:M:39:ILE:N	1:M:39:ILE:CA	1:M:39:ILE:C	10	7.7
(1,1571)	1:L:38:ARG:C	1:L:39:ILE:N	1:L:39:ILE:CA	1:L:39:ILE:C	10	7.7
(1,1431)	1:K:38:ARG:C	1:K:39:ILE:N	1:K:39:ILE:CA	1:K:39:ILE:C	10	7.7
(1,1151)	1:I:38:ARG:C	1:I:39:ILE:N	1:I:39:ILE:CA	1:I:39:ILE:C	10	7.7
(1,171)	1:B:38:ARG:C	1:B:39:ILE:N	1:B:39:ILE:CA	1:B:39:ILE:C	10	7.6
(1,623)	1:E:74:ARG:C	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	8	3.4
(1,343)	1:C:74:ARG:C	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	8	3.4
(1,1043)	1:H:74:ARG:C	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	8	3.4
(1,63)	1:A:74:ARG:C	1:A:75:ASP:N	1:A:75:ASP:CA	1:A:75:ASP:C	8	3.3
(1,483)	1:D:74:ARG:C	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	8	3.3
(1,203)	1:B:74:ARG:C	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	8	3.3
(1,2023)	1:O:74:ARG:C	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	8	3.3
(1,1743)	1:M:74:ARG:C	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	8	3.3
(1,1603)	1:L:74:ARG:C	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	8	3.3
(1,1463)	1:K:74:ARG:C	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	8	3.3
(1,903)	1:G:74:ARG:C	1:G:75:ASP:N	1:G:75:ASP:CA	1:G:75:ASP:C	8	3.2
(1,763)	1:F:74:ARG:C	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	8	3.2
(1,1883)	1:N:74:ARG:C	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	8	3.2
(1,1323)	1:J:74:ARG:C	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	8	3.2
(1,1183)	1:I:74:ARG:C	1:I:75:ASP:N	1:I:75:ASP:CA	1:I:75:ASP:C	8	3.2
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	9	2.9
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	9	2.9
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	9	2.9
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	9	2.9
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	9	2.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	9	2.9
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	9	2.9
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	9	2.9
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	9	2.9
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	9	2.9
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	9	2.9
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	9	2.9
(1,1350)	1:J:24:LYS:N	1:J:24:LYS:CA	1:J:24:LYS:C	1:J:25:MET:N	10	2.9
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	9	2.9
(1,930)	1:G:24:LYS:N	1:G:24:LYS:CA	1:G:24:LYS:C	1:G:25:MET:N	10	2.8
(1,90)	1:A:24:LYS:N	1:A:24:LYS:CA	1:A:24:LYS:C	1:A:25:MET:N	10	2.8
(1,790)	1:F:24:LYS:N	1:F:24:LYS:CA	1:F:24:LYS:C	1:F:25:MET:N	10	2.8
(1,730)	1:F:37:GLY:C	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	10	2.8
(1,450)	1:D:37:GLY:C	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	10	2.8
(1,370)	1:C:24:LYS:N	1:C:24:LYS:CA	1:C:24:LYS:C	1:C:25:MET:N	10	2.8
(1,30)	1:A:37:GLY:C	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	10	2.8
(1,230)	1:B:24:LYS:N	1:B:24:LYS:CA	1:B:24:LYS:C	1:B:25:MET:N	10	2.8
(1,2050)	1:O:24:LYS:N	1:O:24:LYS:CA	1:O:24:LYS:C	1:O:25:MET:N	10	2.8
(1,1990)	1:O:37:GLY:C	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	10	2.8
(1,1910)	1:N:24:LYS:N	1:N:24:LYS:CA	1:N:24:LYS:C	1:N:25:MET:N	10	2.8
(1,1850)	1:N:37:GLY:C	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	10	2.8
(1,1770)	1:M:24:LYS:N	1:M:24:LYS:CA	1:M:24:LYS:C	1:M:25:MET:N	10	2.8
(1,170)	1:B:37:GLY:C	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	7	2.8
(1,170)	1:B:37:GLY:C	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	10	2.8
(1,1570)	1:L:37:GLY:C	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	10	2.8
(1,1490)	1:K:24:LYS:N	1:K:24:LYS:CA	1:K:24:LYS:C	1:K:25:MET:N	10	2.8
(1,1463)	1:K:74:ARG:C	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	4	2.8
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	9	2.8
(1,1290)	1:J:37:GLY:C	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	10	2.8
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	9	2.8
(1,1210)	1:I:24:LYS:N	1:I:24:LYS:CA	1:I:24:LYS:C	1:I:25:MET:N	10	2.8
(1,1010)	1:H:37:GLY:C	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	10	2.8
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	3	2.7
(1,903)	1:G:74:ARG:C	1:G:75:ASP:N	1:G:75:ASP:CA	1:G:75:ASP:C	4	2.7
(1,870)	1:G:37:GLY:C	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	7	2.7
(1,870)	1:G:37:GLY:C	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	10	2.7
(1,650)	1:E:24:LYS:N	1:E:24:LYS:CA	1:E:24:LYS:C	1:E:25:MET:N	10	2.7
(1,623)	1:E:74:ARG:C	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	4	2.7
(1,590)	1:E:37:GLY:C	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	10	2.7
(1,510)	1:D:24:LYS:N	1:D:24:LYS:CA	1:D:24:LYS:C	1:D:25:MET:N	10	2.7
(1,483)	1:D:74:ARG:C	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	4	2.7
(1,450)	1:D:37:GLY:C	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	7	2.7
(1,343)	1:C:74:ARG:C	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	4	2.7
(1,310)	1:C:37:GLY:C	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	10	2.7
(1,30)	1:A:37:GLY:C	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	7	2.7
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	3	2.7
(1,1850)	1:N:37:GLY:C	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	7	2.7
(1,1710)	1:M:37:GLY:C	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	7	2.7
(1,1710)	1:M:37:GLY:C	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	10	2.7
(1,1603)	1:L:74:ARG:C	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	4	2.7
(1,1570)	1:L:37:GLY:C	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	7	2.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1430)	1:K:37:GLY:C	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	7	2.7
(1,1430)	1:K:37:GLY:C	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	10	2.7
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	3	2.7
(1,1323)	1:J:74:ARG:C	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	4	2.7
(1,1150)	1:I:37:GLY:C	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	7	2.7
(1,1150)	1:I:37:GLY:C	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	10	2.7
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	3	2.7
(1,1070)	1:H:24:LYS:N	1:H:24:LYS:CA	1:H:24:LYS:C	1:H:25:MET:N	10	2.7
(1,1043)	1:H:74:ARG:C	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	4	2.7
(1,1010)	1:H:37:GLY:C	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	7	2.7
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	3	2.6
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	7	2.6
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	7	2.6
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	3	2.6
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	7	2.6
(1,763)	1:F:74:ARG:C	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	4	2.6
(1,730)	1:F:37:GLY:C	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	7	2.6
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	3	2.6
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	7	2.6
(1,63)	1:A:74:ARG:C	1:A:75:ASP:N	1:A:75:ASP:CA	1:A:75:ASP:C	4	2.6
(1,590)	1:E:37:GLY:C	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	7	2.6
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	3	2.6
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	7	2.6
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	3	2.6
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	7	2.6
(1,310)	1:C:37:GLY:C	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	7	2.6
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	3	2.6
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	7	2.6
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	7	2.6
(1,203)	1:B:74:ARG:C	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	4	2.6
(1,2023)	1:O:74:ARG:C	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	4	2.6
(1,1990)	1:O:37:GLY:C	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	7	2.6
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	3	2.6
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	7	2.6
(1,1883)	1:N:74:ARG:C	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	4	2.6
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	3	2.6
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	7	2.6
(1,1743)	1:M:74:ARG:C	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	4	2.6
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	3	2.6
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	7	2.6
(1,1630)	1:L:24:LYS:N	1:L:24:LYS:CA	1:L:24:LYS:C	1:L:25:MET:N	10	2.6
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	3	2.6
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	7	2.6
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	8	2.6
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	7	2.6
(1,1290)	1:J:37:GLY:C	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	7	2.6
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	3	2.6
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	7	2.6
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	5	2.5
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	2	2.5
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	5	2.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	8	2.5
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	2	2.5
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	5	2.5
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	8	2.5
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	2	2.5
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	5	2.5
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	8	2.5
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	8	2.5
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	2	2.5
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	5	2.5
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	8	2.5
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	8	2.5
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	5	2.5
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	2	2.5
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	5	2.5
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	8	2.5
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	2	2.5
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	5	2.5
(1,1910)	1:N:24:LYS:N	1:N:24:LYS:CA	1:N:24:LYS:C	1:N:25:MET:N	8	2.5
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	8	2.5
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	5	2.5
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	8	2.5
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	5	2.5
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	8	2.5
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	2	2.5
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	5	2.5
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	2	2.5
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	5	2.5
(1,1350)	1:J:24:LYS:N	1:J:24:LYS:CA	1:J:24:LYS:C	1:J:25:MET:N	8	2.5
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	2	2.5
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	5	2.5
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	7	2.5
(1,1183)	1:I:74:ARG:C	1:I:75:ASP:N	1:I:75:ASP:CA	1:I:75:ASP:C	4	2.5
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	8	2.5
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	5	2.5
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	8	2.4
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	2	2.4
(1,930)	1:G:24:LYS:N	1:G:24:LYS:CA	1:G:24:LYS:C	1:G:25:MET:N	8	2.4
(1,90)	1:A:24:LYS:N	1:A:24:LYS:CA	1:A:24:LYS:C	1:A:25:MET:N	8	2.4
(1,790)	1:F:24:LYS:N	1:F:24:LYS:CA	1:F:24:LYS:C	1:F:25:MET:N	8	2.4
(1,650)	1:E:24:LYS:N	1:E:24:LYS:CA	1:E:24:LYS:C	1:E:25:MET:N	8	2.4
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	1	2.4
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	2	2.4
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	5	2.4
(1,370)	1:C:24:LYS:N	1:C:24:LYS:CA	1:C:24:LYS:C	1:C:25:MET:N	8	2.4
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	2	2.4
(1,230)	1:B:24:LYS:N	1:B:24:LYS:CA	1:B:24:LYS:C	1:B:25:MET:N	8	2.4
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	2	2.4
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	2	2.4
(1,1630)	1:L:24:LYS:N	1:L:24:LYS:CA	1:L:24:LYS:C	1:L:25:MET:N	8	2.4
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	1	2.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1490)	1:K:24:LYS:N	1:K:24:LYS:CA	1:K:24:LYS:C	1:K:25:MET:N	8	2.4
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	8	2.4
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	8	2.4
(1,1210)	1:I:24:LYS:N	1:I:24:LYS:CA	1:I:24:LYS:C	1:I:25:MET:N	8	2.4
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	1	2.4
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	2	2.4
(1,1070)	1:H:24:LYS:N	1:H:24:LYS:CA	1:H:24:LYS:C	1:H:25:MET:N	8	2.4
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	1	2.3
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	1	2.3
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	6	2.3
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	10	2.3
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	1	2.3
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	1	2.3
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	10	2.3
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	1	2.3
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	6	2.3
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	4	2.3
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	10	2.3
(1,510)	1:D:24:LYS:N	1:D:24:LYS:CA	1:D:24:LYS:C	1:D:25:MET:N	8	2.3
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	1	2.3
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	1	2.3
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	1	2.3
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	6	2.3
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	10	2.3
(1,2050)	1:O:24:LYS:N	1:O:24:LYS:CA	1:O:24:LYS:C	1:O:25:MET:N	8	2.3
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	1	2.3
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	1	2.3
(1,1770)	1:M:24:LYS:N	1:M:24:LYS:CA	1:M:24:LYS:C	1:M:25:MET:N	8	2.3
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	1	2.3
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	10	2.3
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	6	2.3
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	10	2.3
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	1	2.3
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	10	2.3
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	1	2.3
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	6	2.3
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	4	2.2
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	6	2.2
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	10	2.2
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	4	2.2
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	8	2.2
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	4	2.2
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	6	2.2
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	1	2.2
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	9	2.2
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	4	2.2
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	10	2.2
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	1	2.2
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	9	2.2
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	6	2.2
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	1	2.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	4	2.2
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	6	2.2
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	10	2.2
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	1	2.2
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	8	2.2
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	9	2.2
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	4	2.2
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	6	2.2
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	10	2.2
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	4	2.2
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	1	2.2
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	8	2.2
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	4	2.2
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	6	2.2
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	10	2.2
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	1	2.2
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	4	2.2
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	6	2.2
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	10	2.2
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	1	2.2
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	4	2.2
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	6	2.2
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	1	2.2
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	4	2.2
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	1	2.2
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	8	2.2
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	9	2.2
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	4	2.2
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	6	2.2
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	1	2.2
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	4	2.2
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	6	2.2
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	10	2.2
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	1	2.2
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	4	2.2
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	10	2.2
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	9	2.1
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	4	2.1
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	9	2.1
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	8	2.1
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	8	2.1
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	9	2.1
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	1	2.1
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	8	2.1
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	8	2.1
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	9	2.1
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	9	2.1
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	1	2.1
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	4	2.1
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	8	2.1
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	8	2.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	8	2.1
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	9	2.1
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	9	2.1
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	4	2.1
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	8	2.1
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	9	2.1
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	8	2.1
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	9	2.1
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	1	2.1
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	4	2.1
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	8	2.1
(1,903)	1:G:74:ARG:C	1:G:75:ASP:N	1:G:75:ASP:CA	1:G:75:ASP:C	6	2.0
(1,763)	1:F:74:ARG:C	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	6	2.0
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	4	2.0
(1,623)	1:E:74:ARG:C	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	6	2.0
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	4	2.0
(1,483)	1:D:74:ARG:C	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	6	2.0
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	4	2.0
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	4	2.0
(1,343)	1:C:74:ARG:C	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	6	2.0
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	4	2.0
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	4	2.0
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	8	2.0
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	9	2.0
(1,1743)	1:M:74:ARG:C	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	6	2.0
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	4	2.0
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	9	2.0
(1,1603)	1:L:74:ARG:C	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	6	2.0
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	4	2.0
(1,1463)	1:K:74:ARG:C	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	6	2.0
(1,1323)	1:J:74:ARG:C	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	6	2.0
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	4	2.0
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	4	2.0
(1,1043)	1:H:74:ARG:C	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	6	2.0
(1,924)	1:G:18:ASP:N	1:G:18:ASP:CA	1:G:18:ASP:C	1:G:19:GLU:N	8	1.9
(1,84)	1:A:18:ASP:N	1:A:18:ASP:CA	1:A:18:ASP:C	1:A:19:GLU:N	8	1.9
(1,798)	1:F:32:LEU:N	1:F:32:LEU:CA	1:F:32:LEU:C	1:F:33:ARG:N	8	1.9
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	4	1.9
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	5	1.9
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	10	1.9
(1,63)	1:A:74:ARG:C	1:A:75:ASP:N	1:A:75:ASP:CA	1:A:75:ASP:C	6	1.9
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	4	1.9
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	5	1.9
(1,504)	1:D:18:ASP:N	1:D:18:ASP:CA	1:D:18:ASP:C	1:D:19:GLU:N	8	1.9
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	5	1.9
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	4	1.9
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	5	1.9
(1,203)	1:B:74:ARG:C	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	6	1.9
(1,2023)	1:O:74:ARG:C	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	6	1.9
(1,1904)	1:N:18:ASP:N	1:N:18:ASP:CA	1:N:18:ASP:C	1:N:19:GLU:N	8	1.9
(1,1883)	1:N:74:ARG:C	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	6	1.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	4	1.9
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	9	1.9
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	5	1.9
(1,1484)	1:K:18:ASP:N	1:K:18:ASP:CA	1:K:18:ASP:C	1:K:19:GLU:N	8	1.9
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	10	1.9
(1,1344)	1:J:18:ASP:N	1:J:18:ASP:CA	1:J:18:ASP:C	1:J:19:GLU:N	8	1.9
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	5	1.9
(1,1183)	1:I:74:ARG:C	1:I:75:ASP:N	1:I:75:ASP:CA	1:I:75:ASP:C	6	1.9
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	5	1.9
(1,1064)	1:H:18:ASP:N	1:H:18:ASP:CA	1:H:18:ASP:C	1:H:19:GLU:N	8	1.9
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	5	1.8
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	6	1.8
(1,98)	1:A:32:LEU:N	1:A:32:LEU:CA	1:A:32:LEU:C	1:A:33:ARG:N	8	1.8
(1,938)	1:G:32:LEU:N	1:G:32:LEU:CA	1:G:32:LEU:C	1:G:33:ARG:N	8	1.8
(1,890)	1:G:57:VAL:C	1:G:58:SER:N	1:G:58:SER:CA	1:G:58:SER:C	6	1.8
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	9	1.8
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	4	1.8
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	5	1.8
(1,784)	1:F:18:ASP:N	1:F:18:ASP:CA	1:F:18:ASP:C	1:F:19:GLU:N	8	1.8
(1,763)	1:F:74:ARG:C	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	3	1.8
(1,763)	1:F:74:ARG:C	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	5	1.8
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	6	1.8
(1,658)	1:E:32:LEU:N	1:E:32:LEU:CA	1:E:32:LEU:C	1:E:33:ARG:N	8	1.8
(1,644)	1:E:18:ASP:N	1:E:18:ASP:CA	1:E:18:ASP:C	1:E:19:GLU:N	8	1.8
(1,623)	1:E:74:ARG:C	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	5	1.8
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	9	1.8
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	6	1.8
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	10	1.8
(1,598)	1:E:45:LEU:C	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	1	1.8
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	4	1.8
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	5	1.8
(1,518)	1:D:32:LEU:N	1:D:32:LEU:CA	1:D:32:LEU:C	1:D:33:ARG:N	8	1.8
(1,50)	1:A:57:VAL:C	1:A:58:SER:N	1:A:58:SER:CA	1:A:58:SER:C	6	1.8
(1,483)	1:D:74:ARG:C	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	3	1.8
(1,470)	1:D:57:VAL:C	1:D:58:SER:N	1:D:58:SER:CA	1:D:58:SER:C	5	1.8
(1,470)	1:D:57:VAL:C	1:D:58:SER:N	1:D:58:SER:CA	1:D:58:SER:C	6	1.8
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	4	1.8
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	10	1.8
(1,378)	1:C:32:LEU:N	1:C:32:LEU:CA	1:C:32:LEU:C	1:C:33:ARG:N	8	1.8
(1,364)	1:C:18:ASP:N	1:C:18:ASP:CA	1:C:18:ASP:C	1:C:19:GLU:N	8	1.8
(1,343)	1:C:74:ARG:C	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	3	1.8
(1,343)	1:C:74:ARG:C	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	5	1.8
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	3	1.8
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	9	1.8
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	6	1.8
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	10	1.8
(1,238)	1:B:32:LEU:N	1:B:32:LEU:CA	1:B:32:LEU:C	1:B:33:ARG:N	8	1.8
(1,224)	1:B:18:ASP:N	1:B:18:ASP:CA	1:B:18:ASP:C	1:B:19:GLU:N	8	1.8
(1,2058)	1:O:32:LEU:N	1:O:32:LEU:CA	1:O:32:LEU:C	1:O:33:ARG:N	8	1.8
(1,2044)	1:O:18:ASP:N	1:O:18:ASP:CA	1:O:18:ASP:C	1:O:19:GLU:N	8	1.8
(1,2010)	1:O:57:VAL:C	1:O:58:SER:N	1:O:58:SER:CA	1:O:58:SER:C	6	1.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	9	1.8
(1,1976)	1:O:19:GLU:C	1:O:20:LEU:N	1:O:20:LEU:CA	1:O:20:LEU:C	2	1.8
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	5	1.8
(1,1918)	1:N:32:LEU:N	1:N:32:LEU:CA	1:N:32:LEU:C	1:N:33:ARG:N	8	1.8
(1,190)	1:B:57:VAL:C	1:B:58:SER:N	1:B:58:SER:CA	1:B:58:SER:C	5	1.8
(1,190)	1:B:57:VAL:C	1:B:58:SER:N	1:B:58:SER:CA	1:B:58:SER:C	6	1.8
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	1	1.8
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	3	1.8
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	9	1.8
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	4	1.8
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	5	1.8
(1,1778)	1:M:32:LEU:N	1:M:32:LEU:CA	1:M:32:LEU:C	1:M:33:ARG:N	8	1.8
(1,1764)	1:M:18:ASP:N	1:M:18:ASP:CA	1:M:18:ASP:C	1:M:19:GLU:N	8	1.8
(1,1730)	1:M:57:VAL:C	1:M:58:SER:N	1:M:58:SER:CA	1:M:58:SER:C	5	1.8
(1,1638)	1:L:32:LEU:N	1:L:32:LEU:CA	1:L:32:LEU:C	1:L:33:ARG:N	8	1.8
(1,1624)	1:L:18:ASP:N	1:L:18:ASP:CA	1:L:18:ASP:C	1:L:19:GLU:N	8	1.8
(1,1603)	1:L:74:ARG:C	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	3	1.8
(1,1603)	1:L:74:ARG:C	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	5	1.8
(1,16)	1:A:19:GLU:C	1:A:20:LEU:N	1:A:20:LEU:CA	1:A:20:LEU:C	2	1.8
(1,1590)	1:L:57:VAL:C	1:L:58:SER:N	1:L:58:SER:CA	1:L:58:SER:C	5	1.8
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	9	1.8
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	4	1.8
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	5	1.8
(1,1498)	1:K:32:LEU:N	1:K:32:LEU:CA	1:K:32:LEU:C	1:K:33:ARG:N	8	1.8
(1,1463)	1:K:74:ARG:C	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	3	1.8
(1,1463)	1:K:74:ARG:C	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	5	1.8
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	4	1.8
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	5	1.8
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	6	1.8
(1,1450)	1:K:57:VAL:C	1:K:58:SER:N	1:K:58:SER:CA	1:K:58:SER:C	6	1.8
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	4	1.8
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	5	1.8
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	6	1.8
(1,1358)	1:J:32:LEU:N	1:J:32:LEU:CA	1:J:32:LEU:C	1:J:33:ARG:N	8	1.8
(1,1323)	1:J:74:ARG:C	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	5	1.8
(1,1310)	1:J:57:VAL:C	1:J:58:SER:N	1:J:58:SER:CA	1:J:58:SER:C	5	1.8
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	3	1.8
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	9	1.8
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	4	1.8
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	10	1.8
(1,1218)	1:I:32:LEU:N	1:I:32:LEU:CA	1:I:32:LEU:C	1:I:33:ARG:N	8	1.8
(1,1204)	1:I:18:ASP:N	1:I:18:ASP:CA	1:I:18:ASP:C	1:I:19:GLU:N	8	1.8
(1,1170)	1:I:57:VAL:C	1:I:58:SER:N	1:I:58:SER:CA	1:I:58:SER:C	5	1.8
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	3	1.8
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	9	1.8
(1,1136)	1:I:19:GLU:C	1:I:20:LEU:N	1:I:20:LEU:CA	1:I:20:LEU:C	2	1.8
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	4	1.8
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	10	1.8
(1,1078)	1:H:32:LEU:N	1:H:32:LEU:CA	1:H:32:LEU:C	1:H:33:ARG:N	8	1.8
(1,1043)	1:H:74:ARG:C	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	3	1.8
(1,1043)	1:H:74:ARG:C	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	5	1.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1030)	1:H:57:VAL:C	1:H:58:SER:N	1:H:58:SER:CA	1:H:58:SER:C	6	1.8
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	9	1.8
(1,996)	1:H:19:GLU:C	1:H:20:LEU:N	1:H:20:LEU:CA	1:H:20:LEU:C	2	1.7
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	4	1.7
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	10	1.7
(1,903)	1:G:74:ARG:C	1:G:75:ASP:N	1:G:75:ASP:CA	1:G:75:ASP:C	3	1.7
(1,903)	1:G:74:ARG:C	1:G:75:ASP:N	1:G:75:ASP:CA	1:G:75:ASP:C	5	1.7
(1,90)	1:A:24:LYS:N	1:A:24:LYS:CA	1:A:24:LYS:C	1:A:25:MET:N	4	1.7
(1,890)	1:G:57:VAL:C	1:G:58:SER:N	1:G:58:SER:CA	1:G:58:SER:C	5	1.7
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	3	1.7
(1,878)	1:G:45:LEU:C	1:G:46:GLN:N	1:G:46:GLN:CA	1:G:46:GLN:C	1	1.7
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	6	1.7
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	10	1.7
(1,790)	1:F:24:LYS:N	1:F:24:LYS:CA	1:F:24:LYS:C	1:F:25:MET:N	4	1.7
(1,750)	1:F:57:VAL:C	1:F:58:SER:N	1:F:58:SER:CA	1:F:58:SER:C	5	1.7
(1,750)	1:F:57:VAL:C	1:F:58:SER:N	1:F:58:SER:CA	1:F:58:SER:C	6	1.7
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	3	1.7
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	9	1.7
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	10	1.7
(1,738)	1:F:45:LEU:C	1:F:46:GLN:N	1:F:46:GLN:CA	1:F:46:GLN:C	1	1.7
(1,716)	1:F:19:GLU:C	1:F:20:LEU:N	1:F:20:LEU:CA	1:F:20:LEU:C	2	1.7
(1,63)	1:A:74:ARG:C	1:A:75:ASP:N	1:A:75:ASP:CA	1:A:75:ASP:C	3	1.7
(1,63)	1:A:74:ARG:C	1:A:75:ASP:N	1:A:75:ASP:CA	1:A:75:ASP:C	5	1.7
(1,623)	1:E:74:ARG:C	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	3	1.7
(1,611)	1:E:58:SER:C	1:E:59:TYR:N	1:E:59:TYR:CA	1:E:59:TYR:C	6	1.7
(1,610)	1:E:57:VAL:C	1:E:58:SER:N	1:E:58:SER:CA	1:E:58:SER:C	5	1.7
(1,610)	1:E:57:VAL:C	1:E:58:SER:N	1:E:58:SER:CA	1:E:58:SER:C	6	1.7
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	10	1.7
(1,598)	1:E:45:LEU:C	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	2	1.7
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	6	1.7
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	10	1.7
(1,50)	1:A:57:VAL:C	1:A:58:SER:N	1:A:58:SER:CA	1:A:58:SER:C	5	1.7
(1,483)	1:D:74:ARG:C	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	5	1.7
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	9	1.7
(1,458)	1:D:45:LEU:C	1:D:46:GLN:N	1:D:46:GLN:CA	1:D:46:GLN:C	1	1.7
(1,458)	1:D:45:LEU:C	1:D:46:GLN:N	1:D:46:GLN:CA	1:D:46:GLN:C	2	1.7
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	3	1.7
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	9	1.7
(1,436)	1:D:19:GLU:C	1:D:20:LEU:N	1:D:20:LEU:CA	1:D:20:LEU:C	2	1.7
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	6	1.7
(1,38)	1:A:45:LEU:C	1:A:46:GLN:N	1:A:46:GLN:CA	1:A:46:GLN:C	1	1.7
(1,370)	1:C:24:LYS:N	1:C:24:LYS:CA	1:C:24:LYS:C	1:C:25:MET:N	4	1.7
(1,331)	1:C:58:SER:C	1:C:59:TYR:N	1:C:59:TYR:CA	1:C:59:TYR:C	4	1.7
(1,330)	1:C:57:VAL:C	1:C:58:SER:N	1:C:58:SER:CA	1:C:58:SER:C	5	1.7
(1,330)	1:C:57:VAL:C	1:C:58:SER:N	1:C:58:SER:CA	1:C:58:SER:C	6	1.7
(1,318)	1:C:45:LEU:C	1:C:46:GLN:N	1:C:46:GLN:CA	1:C:46:GLN:C	1	1.7
(1,296)	1:C:19:GLU:C	1:C:20:LEU:N	1:C:20:LEU:CA	1:C:20:LEU:C	2	1.7
(1,203)	1:B:74:ARG:C	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	3	1.7
(1,203)	1:B:74:ARG:C	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	5	1.7
(1,2023)	1:O:74:ARG:C	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	3	1.7
(1,2023)	1:O:74:ARG:C	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	5	1.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,2010)	1:O:57:VAL:C	1:O:58:SER:N	1:O:58:SER:CA	1:O:58:SER:C	5	1.7
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	3	1.7
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	5	1.7
(1,1998)	1:O:45:LEU:C	1:O:46:GLN:N	1:O:46:GLN:CA	1:O:46:GLN:C	1	1.7
(1,1998)	1:O:45:LEU:C	1:O:46:GLN:N	1:O:46:GLN:CA	1:O:46:GLN:C	2	1.7
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	4	1.7
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	6	1.7
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	10	1.7
(1,1883)	1:N:74:ARG:C	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	5	1.7
(1,1870)	1:N:57:VAL:C	1:N:58:SER:N	1:N:58:SER:CA	1:N:58:SER:C	6	1.7
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	3	1.7
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	9	1.7
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	2	1.7
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	5	1.7
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	10	1.7
(1,1836)	1:N:19:GLU:C	1:N:20:LEU:N	1:N:20:LEU:CA	1:N:20:LEU:C	2	1.7
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	6	1.7
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	10	1.7
(1,178)	1:B:45:LEU:C	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	1	1.7
(1,178)	1:B:45:LEU:C	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	2	1.7
(1,1743)	1:M:74:ARG:C	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	3	1.7
(1,1743)	1:M:74:ARG:C	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	5	1.7
(1,1730)	1:M:57:VAL:C	1:M:58:SER:N	1:M:58:SER:CA	1:M:58:SER:C	6	1.7
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	3	1.7
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	10	1.7
(1,1718)	1:M:45:LEU:C	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	1	1.7
(1,1718)	1:M:45:LEU:C	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	2	1.7
(1,1696)	1:M:19:GLU:C	1:M:20:LEU:N	1:M:20:LEU:CA	1:M:20:LEU:C	2	1.7
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	4	1.7
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	6	1.7
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	10	1.7
(1,1590)	1:L:57:VAL:C	1:L:58:SER:N	1:L:58:SER:CA	1:L:58:SER:C	6	1.7
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	3	1.7
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	10	1.7
(1,1578)	1:L:45:LEU:C	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	1	1.7
(1,1578)	1:L:45:LEU:C	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	2	1.7
(1,156)	1:B:19:GLU:C	1:B:20:LEU:N	1:B:20:LEU:CA	1:B:20:LEU:C	2	1.7
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	6	1.7
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	10	1.7
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	10	1.7
(1,1450)	1:K:57:VAL:C	1:K:58:SER:N	1:K:58:SER:CA	1:K:58:SER:C	5	1.7
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	3	1.7
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	9	1.7
(1,1438)	1:K:45:LEU:C	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	1	1.7
(1,1438)	1:K:45:LEU:C	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	2	1.7
(1,1416)	1:K:19:GLU:C	1:K:20:LEU:N	1:K:20:LEU:CA	1:K:20:LEU:C	2	1.7
(1,1350)	1:J:24:LYS:N	1:J:24:LYS:CA	1:J:24:LYS:C	1:J:25:MET:N	4	1.7
(1,1323)	1:J:74:ARG:C	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	3	1.7
(1,1310)	1:J:57:VAL:C	1:J:58:SER:N	1:J:58:SER:CA	1:J:58:SER:C	6	1.7
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	5	1.7
(1,1298)	1:J:45:LEU:C	1:J:46:GLN:N	1:J:46:GLN:CA	1:J:46:GLN:C	1	1.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	6	1.7
(1,1183)	1:I:74:ARG:C	1:I:75:ASP:N	1:I:75:ASP:CA	1:I:75:ASP:C	3	1.7
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	10	1.7
(1,1158)	1:I:45:LEU:C	1:I:46:GLN:N	1:I:46:GLN:CA	1:I:46:GLN:C	1	1.7
(1,1158)	1:I:45:LEU:C	1:I:46:GLN:N	1:I:46:GLN:CA	1:I:46:GLN:C	2	1.7
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	6	1.7
(1,1030)	1:H:57:VAL:C	1:H:58:SER:N	1:H:58:SER:CA	1:H:58:SER:C	5	1.7
(1,1018)	1:H:45:LEU:C	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	1	1.7
(1,1018)	1:H:45:LEU:C	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	2	1.7
(1,930)	1:G:24:LYS:N	1:G:24:LYS:CA	1:G:24:LYS:C	1:G:25:MET:N	4	1.6
(1,891)	1:G:58:SER:C	1:G:59:TYR:N	1:G:59:TYR:CA	1:G:59:TYR:C	10	1.6
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	5	1.6
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	6	1.6
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	7	1.6
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	10	1.6
(1,878)	1:G:45:LEU:C	1:G:46:GLN:N	1:G:46:GLN:CA	1:G:46:GLN:C	2	1.6
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	6	1.6
(1,856)	1:G:19:GLU:C	1:G:20:LEU:N	1:G:20:LEU:CA	1:G:20:LEU:C	2	1.6
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	3	1.6
(1,763)	1:F:74:ARG:C	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	10	1.6
(1,751)	1:F:58:SER:C	1:F:59:TYR:N	1:F:59:TYR:CA	1:F:59:TYR:C	6	1.6
(1,751)	1:F:58:SER:C	1:F:59:TYR:N	1:F:59:TYR:CA	1:F:59:TYR:C	10	1.6
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	5	1.6
(1,738)	1:F:45:LEU:C	1:F:46:GLN:N	1:F:46:GLN:CA	1:F:46:GLN:C	2	1.6
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	6	1.6
(1,716)	1:F:19:GLU:C	1:F:20:LEU:N	1:F:20:LEU:CA	1:F:20:LEU:C	9	1.6
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	3	1.6
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	7	1.6
(1,650)	1:E:24:LYS:N	1:E:24:LYS:CA	1:E:24:LYS:C	1:E:25:MET:N	4	1.6
(1,611)	1:E:58:SER:C	1:E:59:TYR:N	1:E:59:TYR:CA	1:E:59:TYR:C	10	1.6
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	3	1.6
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	5	1.6
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	3	1.6
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	6	1.6
(1,576)	1:E:19:GLU:C	1:E:20:LEU:N	1:E:20:LEU:CA	1:E:20:LEU:C	2	1.6
(1,510)	1:D:24:LYS:N	1:D:24:LYS:CA	1:D:24:LYS:C	1:D:25:MET:N	4	1.6
(1,51)	1:A:58:SER:C	1:A:59:TYR:N	1:A:59:TYR:CA	1:A:59:TYR:C	6	1.6
(1,51)	1:A:58:SER:C	1:A:59:TYR:N	1:A:59:TYR:CA	1:A:59:TYR:C	10	1.6
(1,483)	1:D:74:ARG:C	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	10	1.6
(1,471)	1:D:58:SER:C	1:D:59:TYR:N	1:D:59:TYR:CA	1:D:59:TYR:C	6	1.6
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	3	1.6
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	5	1.6
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	10	1.6
(1,443)	1:D:26:LYS:C	1:D:27:LEU:N	1:D:27:LEU:CA	1:D:27:LEU:C	6	1.6
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	5	1.6
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	10	1.6
(1,38)	1:A:45:LEU:C	1:A:46:GLN:N	1:A:46:GLN:CA	1:A:46:GLN:C	2	1.6
(1,343)	1:C:74:ARG:C	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	10	1.6
(1,331)	1:C:58:SER:C	1:C:59:TYR:N	1:C:59:TYR:CA	1:C:59:TYR:C	6	1.6
(1,331)	1:C:58:SER:C	1:C:59:TYR:N	1:C:59:TYR:CA	1:C:59:TYR:C	10	1.6
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	5	1.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	6	1.6
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	7	1.6
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	10	1.6
(1,318)	1:C:45:LEU:C	1:C:46:GLN:N	1:C:46:GLN:CA	1:C:46:GLN:C	2	1.6
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	3	1.6
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	7	1.6
(1,230)	1:B:24:LYS:N	1:B:24:LYS:CA	1:B:24:LYS:C	1:B:25:MET:N	4	1.6
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	6	1.6
(1,2050)	1:O:24:LYS:N	1:O:24:LYS:CA	1:O:24:LYS:C	1:O:25:MET:N	4	1.6
(1,203)	1:B:74:ARG:C	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	10	1.6
(1,2023)	1:O:74:ARG:C	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	10	1.6
(1,2011)	1:O:58:SER:C	1:O:59:TYR:N	1:O:59:TYR:CA	1:O:59:TYR:C	4	1.6
(1,2010)	1:O:57:VAL:C	1:O:58:SER:N	1:O:58:SER:CA	1:O:58:SER:C	3	1.6
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	10	1.6
(1,1910)	1:N:24:LYS:N	1:N:24:LYS:CA	1:N:24:LYS:C	1:N:25:MET:N	4	1.6
(1,191)	1:B:58:SER:C	1:B:59:TYR:N	1:B:59:TYR:CA	1:B:59:TYR:C	6	1.6
(1,191)	1:B:58:SER:C	1:B:59:TYR:N	1:B:59:TYR:CA	1:B:59:TYR:C	10	1.6
(1,190)	1:B:57:VAL:C	1:B:58:SER:N	1:B:58:SER:CA	1:B:58:SER:C	3	1.6
(1,1883)	1:N:74:ARG:C	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	3	1.6
(1,1883)	1:N:74:ARG:C	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	10	1.6
(1,1871)	1:N:58:SER:C	1:N:59:TYR:N	1:N:59:TYR:CA	1:N:59:TYR:C	4	1.6
(1,1871)	1:N:58:SER:C	1:N:59:TYR:N	1:N:59:TYR:CA	1:N:59:TYR:C	6	1.6
(1,1871)	1:N:58:SER:C	1:N:59:TYR:N	1:N:59:TYR:CA	1:N:59:TYR:C	10	1.6
(1,1870)	1:N:57:VAL:C	1:N:58:SER:N	1:N:58:SER:CA	1:N:58:SER:C	5	1.6
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	5	1.6
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	6	1.6
(1,1770)	1:M:24:LYS:N	1:M:24:LYS:CA	1:M:24:LYS:C	1:M:25:MET:N	4	1.6
(1,1743)	1:M:74:ARG:C	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	10	1.6
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	5	1.6
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	7	1.6
(1,1696)	1:M:19:GLU:C	1:M:20:LEU:N	1:M:20:LEU:CA	1:M:20:LEU:C	9	1.6
(1,1630)	1:L:24:LYS:N	1:L:24:LYS:CA	1:L:24:LYS:C	1:L:25:MET:N	4	1.6
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	6	1.6
(1,1603)	1:L:74:ARG:C	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	10	1.6
(1,16)	1:A:19:GLU:C	1:A:20:LEU:N	1:A:20:LEU:CA	1:A:20:LEU:C	9	1.6
(1,1591)	1:L:58:SER:C	1:L:59:TYR:N	1:L:59:TYR:CA	1:L:59:TYR:C	10	1.6
(1,1590)	1:L:57:VAL:C	1:L:58:SER:N	1:L:58:SER:CA	1:L:58:SER:C	3	1.6
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	5	1.6
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	6	1.6
(1,1556)	1:L:19:GLU:C	1:L:20:LEU:N	1:L:20:LEU:CA	1:L:20:LEU:C	2	1.6
(1,1490)	1:K:24:LYS:N	1:K:24:LYS:CA	1:K:24:LYS:C	1:K:25:MET:N	4	1.6
(1,1463)	1:K:74:ARG:C	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	10	1.6
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	3	1.6
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	5	1.6
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	10	1.6
(1,1423)	1:K:26:LYS:C	1:K:27:LEU:N	1:K:27:LEU:CA	1:K:27:LEU:C	6	1.6
(1,1416)	1:K:19:GLU:C	1:K:20:LEU:N	1:K:20:LEU:CA	1:K:20:LEU:C	9	1.6
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	3	1.6
(1,1311)	1:J:58:SER:C	1:J:59:TYR:N	1:J:59:TYR:CA	1:J:59:TYR:C	4	1.6
(1,1311)	1:J:58:SER:C	1:J:59:TYR:N	1:J:59:TYR:CA	1:J:59:TYR:C	6	1.6
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	7	1.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	10	1.6
(1,1298)	1:J:45:LEU:C	1:J:46:GLN:N	1:J:46:GLN:CA	1:J:46:GLN:C	2	1.6
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	6	1.6
(1,1276)	1:J:19:GLU:C	1:J:20:LEU:N	1:J:20:LEU:CA	1:J:20:LEU:C	2	1.6
(1,1276)	1:J:19:GLU:C	1:J:20:LEU:N	1:J:20:LEU:CA	1:J:20:LEU:C	9	1.6
(1,1210)	1:I:24:LYS:N	1:I:24:LYS:CA	1:I:24:LYS:C	1:I:25:MET:N	4	1.6
(1,1183)	1:I:74:ARG:C	1:I:75:ASP:N	1:I:75:ASP:CA	1:I:75:ASP:C	5	1.6
(1,1171)	1:I:58:SER:C	1:I:59:TYR:N	1:I:59:TYR:CA	1:I:59:TYR:C	6	1.6
(1,1171)	1:I:58:SER:C	1:I:59:TYR:N	1:I:59:TYR:CA	1:I:59:TYR:C	10	1.6
(1,1170)	1:I:57:VAL:C	1:I:58:SER:N	1:I:58:SER:CA	1:I:58:SER:C	6	1.6
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	5	1.6
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	7	1.6
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	6	1.6
(1,1070)	1:H:24:LYS:N	1:H:24:LYS:CA	1:H:24:LYS:C	1:H:25:MET:N	4	1.6
(1,1043)	1:H:74:ARG:C	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	10	1.6
(1,1031)	1:H:58:SER:C	1:H:59:TYR:N	1:H:59:TYR:CA	1:H:59:TYR:C	6	1.6
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	3	1.6
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	5	1.6
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	6	1.6
(1,996)	1:H:19:GLU:C	1:H:20:LEU:N	1:H:20:LEU:CA	1:H:20:LEU:C	9	1.5
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	3	1.5
(1,924)	1:G:18:ASP:N	1:G:18:ASP:CA	1:G:18:ASP:C	1:G:19:GLU:N	2	1.5
(1,903)	1:G:74:ARG:C	1:G:75:ASP:N	1:G:75:ASP:CA	1:G:75:ASP:C	10	1.5
(1,891)	1:G:58:SER:C	1:G:59:TYR:N	1:G:59:TYR:CA	1:G:59:TYR:C	4	1.5
(1,891)	1:G:58:SER:C	1:G:59:TYR:N	1:G:59:TYR:CA	1:G:59:TYR:C	6	1.5
(1,890)	1:G:57:VAL:C	1:G:58:SER:N	1:G:58:SER:CA	1:G:58:SER:C	3	1.5
(1,884)	1:G:51:ASP:C	1:G:52:LEU:N	1:G:52:LEU:CA	1:G:52:LEU:C	2	1.5
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	3	1.5
(1,848)	1:G:10:ASP:C	1:G:11:ALA:N	1:G:11:ALA:CA	1:G:11:ALA:C	7	1.5
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	7	1.5
(1,84)	1:A:18:ASP:N	1:A:18:ASP:CA	1:A:18:ASP:C	1:A:19:GLU:N	2	1.5
(1,751)	1:F:58:SER:C	1:F:59:TYR:N	1:F:59:TYR:CA	1:F:59:TYR:C	4	1.5
(1,750)	1:F:57:VAL:C	1:F:58:SER:N	1:F:58:SER:CA	1:F:58:SER:C	3	1.5
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	2	1.5
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	6	1.5
(1,744)	1:F:51:ASP:C	1:F:52:LEU:N	1:F:52:LEU:CA	1:F:52:LEU:C	7	1.5
(1,738)	1:F:45:LEU:C	1:F:46:GLN:N	1:F:46:GLN:CA	1:F:46:GLN:C	6	1.5
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	3	1.5
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	5	1.5
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	1	1.5
(1,644)	1:E:18:ASP:N	1:E:18:ASP:CA	1:E:18:ASP:C	1:E:19:GLU:N	2	1.5
(1,63)	1:A:74:ARG:C	1:A:75:ASP:N	1:A:75:ASP:CA	1:A:75:ASP:C	10	1.5
(1,623)	1:E:74:ARG:C	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	10	1.5
(1,611)	1:E:58:SER:C	1:E:59:TYR:N	1:E:59:TYR:CA	1:E:59:TYR:C	4	1.5
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	2	1.5
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	6	1.5
(1,604)	1:E:51:ASP:C	1:E:52:LEU:N	1:E:52:LEU:CA	1:E:52:LEU:C	7	1.5
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	1	1.5
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	7	1.5
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	3	1.5
(1,576)	1:E:19:GLU:C	1:E:20:LEU:N	1:E:20:LEU:CA	1:E:20:LEU:C	9	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	3	1.5
(1,51)	1:A:58:SER:C	1:A:59:TYR:N	1:A:59:TYR:CA	1:A:59:TYR:C	4	1.5
(1,504)	1:D:18:ASP:N	1:D:18:ASP:CA	1:D:18:ASP:C	1:D:19:GLU:N	5	1.5
(1,50)	1:A:57:VAL:C	1:A:58:SER:N	1:A:58:SER:CA	1:A:58:SER:C	3	1.5
(1,471)	1:D:58:SER:C	1:D:59:TYR:N	1:D:59:TYR:CA	1:D:59:TYR:C	4	1.5
(1,471)	1:D:58:SER:C	1:D:59:TYR:N	1:D:59:TYR:CA	1:D:59:TYR:C	9	1.5
(1,471)	1:D:58:SER:C	1:D:59:TYR:N	1:D:59:TYR:CA	1:D:59:TYR:C	10	1.5
(1,470)	1:D:57:VAL:C	1:D:58:SER:N	1:D:58:SER:CA	1:D:58:SER:C	3	1.5
(1,458)	1:D:45:LEU:C	1:D:46:GLN:N	1:D:46:GLN:CA	1:D:46:GLN:C	6	1.5
(1,443)	1:D:26:LYS:C	1:D:27:LEU:N	1:D:27:LEU:CA	1:D:27:LEU:C	3	1.5
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	7	1.5
(1,436)	1:D:19:GLU:C	1:D:20:LEU:N	1:D:20:LEU:CA	1:D:20:LEU:C	9	1.5
(1,428)	1:D:10:ASP:C	1:D:11:ALA:N	1:D:11:ALA:CA	1:D:11:ALA:C	7	1.5
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	1	1.5
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	3	1.5
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	7	1.5
(1,364)	1:C:18:ASP:N	1:C:18:ASP:CA	1:C:18:ASP:C	1:C:19:GLU:N	2	1.5
(1,324)	1:C:51:ASP:C	1:C:52:LEU:N	1:C:52:LEU:CA	1:C:52:LEU:C	2	1.5
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	3	1.5
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	6	1.5
(1,296)	1:C:19:GLU:C	1:C:20:LEU:N	1:C:20:LEU:CA	1:C:20:LEU:C	9	1.5
(1,288)	1:C:10:ASP:C	1:C:11:ALA:N	1:C:11:ALA:CA	1:C:11:ALA:C	7	1.5
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	1	1.5
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	3	1.5
(1,2011)	1:O:58:SER:C	1:O:59:TYR:N	1:O:59:TYR:CA	1:O:59:TYR:C	6	1.5
(1,2011)	1:O:58:SER:C	1:O:59:TYR:N	1:O:59:TYR:CA	1:O:59:TYR:C	10	1.5
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	6	1.5
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	7	1.5
(1,1983)	1:O:26:LYS:C	1:O:27:LEU:N	1:O:27:LEU:CA	1:O:27:LEU:C	6	1.5
(1,1976)	1:O:19:GLU:C	1:O:20:LEU:N	1:O:20:LEU:CA	1:O:20:LEU:C	9	1.5
(1,1968)	1:O:10:ASP:C	1:O:11:ALA:N	1:O:11:ALA:CA	1:O:11:ALA:C	7	1.5
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	1	1.5
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	3	1.5
(1,191)	1:B:58:SER:C	1:B:59:TYR:N	1:B:59:TYR:CA	1:B:59:TYR:C	4	1.5
(1,1904)	1:N:18:ASP:N	1:N:18:ASP:CA	1:N:18:ASP:C	1:N:19:GLU:N	2	1.5
(1,1871)	1:N:58:SER:C	1:N:59:TYR:N	1:N:59:TYR:CA	1:N:59:TYR:C	9	1.5
(1,1870)	1:N:57:VAL:C	1:N:58:SER:N	1:N:58:SER:CA	1:N:58:SER:C	3	1.5
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	10	1.5
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	6	1.5
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	3	1.5
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	2	1.5
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	6	1.5
(1,184)	1:B:51:ASP:C	1:B:52:LEU:N	1:B:52:LEU:CA	1:B:52:LEU:C	7	1.5
(1,1836)	1:N:19:GLU:C	1:N:20:LEU:N	1:N:20:LEU:CA	1:N:20:LEU:C	9	1.5
(1,1828)	1:N:10:ASP:C	1:N:11:ALA:N	1:N:11:ALA:CA	1:N:11:ALA:C	7	1.5
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	1	1.5
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	3	1.5
(1,1731)	1:M:58:SER:C	1:M:59:TYR:N	1:M:59:TYR:CA	1:M:59:TYR:C	4	1.5
(1,1731)	1:M:58:SER:C	1:M:59:TYR:N	1:M:59:TYR:CA	1:M:59:TYR:C	6	1.5
(1,1731)	1:M:58:SER:C	1:M:59:TYR:N	1:M:59:TYR:CA	1:M:59:TYR:C	9	1.5
(1,1731)	1:M:58:SER:C	1:M:59:TYR:N	1:M:59:TYR:CA	1:M:59:TYR:C	10	1.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1730)	1:M:57:VAL:C	1:M:58:SER:N	1:M:58:SER:CA	1:M:58:SER:C	3	1.5
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	6	1.5
(1,1718)	1:M:45:LEU:C	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	6	1.5
(1,1703)	1:M:26:LYS:C	1:M:27:LEU:N	1:M:27:LEU:CA	1:M:27:LEU:C	6	1.5
(1,1688)	1:M:10:ASP:C	1:M:11:ALA:N	1:M:11:ALA:CA	1:M:11:ALA:C	7	1.5
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	3	1.5
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	7	1.5
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	3	1.5
(1,1591)	1:L:58:SER:C	1:L:59:TYR:N	1:L:59:TYR:CA	1:L:59:TYR:C	4	1.5
(1,1591)	1:L:58:SER:C	1:L:59:TYR:N	1:L:59:TYR:CA	1:L:59:TYR:C	6	1.5
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	2	1.5
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	6	1.5
(1,1584)	1:L:51:ASP:C	1:L:52:LEU:N	1:L:52:LEU:CA	1:L:52:LEU:C	7	1.5
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	3	1.5
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	5	1.5
(1,1556)	1:L:19:GLU:C	1:L:20:LEU:N	1:L:20:LEU:CA	1:L:20:LEU:C	9	1.5
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	3	1.5
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	7	1.5
(1,1484)	1:K:18:ASP:N	1:K:18:ASP:CA	1:K:18:ASP:C	1:K:19:GLU:N	2	1.5
(1,1484)	1:K:18:ASP:N	1:K:18:ASP:CA	1:K:18:ASP:C	1:K:19:GLU:N	5	1.5
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	7	1.5
(1,1451)	1:K:58:SER:C	1:K:59:TYR:N	1:K:59:TYR:CA	1:K:59:TYR:C	4	1.5
(1,1451)	1:K:58:SER:C	1:K:59:TYR:N	1:K:59:TYR:CA	1:K:59:TYR:C	6	1.5
(1,1451)	1:K:58:SER:C	1:K:59:TYR:N	1:K:59:TYR:CA	1:K:59:TYR:C	10	1.5
(1,1450)	1:K:57:VAL:C	1:K:58:SER:N	1:K:58:SER:CA	1:K:58:SER:C	3	1.5
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	6	1.5
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	7	1.5
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	1	1.5
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	7	1.5
(1,1344)	1:J:18:ASP:N	1:J:18:ASP:CA	1:J:18:ASP:C	1:J:19:GLU:N	2	1.5
(1,1323)	1:J:74:ARG:C	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	10	1.5
(1,1311)	1:J:58:SER:C	1:J:59:TYR:N	1:J:59:TYR:CA	1:J:59:TYR:C	10	1.5
(1,1310)	1:J:57:VAL:C	1:J:58:SER:N	1:J:58:SER:CA	1:J:58:SER:C	3	1.5
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	6	1.5
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	3	1.5
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	7	1.5
(1,1183)	1:I:74:ARG:C	1:I:75:ASP:N	1:I:75:ASP:CA	1:I:75:ASP:C	10	1.5
(1,1171)	1:I:58:SER:C	1:I:59:TYR:N	1:I:59:TYR:CA	1:I:59:TYR:C	4	1.5
(1,1170)	1:I:57:VAL:C	1:I:58:SER:N	1:I:58:SER:CA	1:I:58:SER:C	3	1.5
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	2	1.5
(1,1164)	1:I:51:ASP:C	1:I:52:LEU:N	1:I:52:LEU:CA	1:I:52:LEU:C	6	1.5
(1,1158)	1:I:45:LEU:C	1:I:46:GLN:N	1:I:46:GLN:CA	1:I:46:GLN:C	6	1.5
(1,1136)	1:I:19:GLU:C	1:I:20:LEU:N	1:I:20:LEU:CA	1:I:20:LEU:C	9	1.5
(1,1128)	1:I:10:ASP:C	1:I:11:ALA:N	1:I:11:ALA:CA	1:I:11:ALA:C	7	1.5
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	3	1.5
(1,1064)	1:H:18:ASP:N	1:H:18:ASP:CA	1:H:18:ASP:C	1:H:19:GLU:N	2	1.5
(1,1031)	1:H:58:SER:C	1:H:59:TYR:N	1:H:59:TYR:CA	1:H:59:TYR:C	4	1.5
(1,1031)	1:H:58:SER:C	1:H:59:TYR:N	1:H:59:TYR:CA	1:H:59:TYR:C	10	1.5
(1,1030)	1:H:57:VAL:C	1:H:58:SER:N	1:H:58:SER:CA	1:H:58:SER:C	3	1.5
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	10	1.5
(1,988)	1:H:10:ASP:C	1:H:11:ALA:N	1:H:11:ALA:CA	1:H:11:ALA:C	7	1.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	1	1.4
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	7	1.4
(1,924)	1:G:18:ASP:N	1:G:18:ASP:CA	1:G:18:ASP:C	1:G:19:GLU:N	5	1.4
(1,914)	1:G:7:ALA:N	1:G:7:ALA:CA	1:G:7:ALA:C	1:G:8:ILE:N	4	1.4
(1,891)	1:G:58:SER:C	1:G:59:TYR:N	1:G:59:TYR:CA	1:G:59:TYR:C	9	1.4
(1,878)	1:G:45:LEU:C	1:G:46:GLN:N	1:G:46:GLN:CA	1:G:46:GLN:C	6	1.4
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	5	1.4
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	7	1.4
(1,856)	1:G:19:GLU:C	1:G:20:LEU:N	1:G:20:LEU:CA	1:G:20:LEU:C	9	1.4
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	1	1.4
(1,846)	1:G:8:ILE:C	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	2	1.4
(1,84)	1:A:18:ASP:N	1:A:18:ASP:CA	1:A:18:ASP:C	1:A:19:GLU:N	5	1.4
(1,84)	1:A:18:ASP:N	1:A:18:ASP:CA	1:A:18:ASP:C	1:A:19:GLU:N	9	1.4
(1,8)	1:A:10:ASP:C	1:A:11:ALA:N	1:A:11:ALA:CA	1:A:11:ALA:C	7	1.4
(1,784)	1:F:18:ASP:N	1:F:18:ASP:CA	1:F:18:ASP:C	1:F:19:GLU:N	2	1.4
(1,784)	1:F:18:ASP:N	1:F:18:ASP:CA	1:F:18:ASP:C	1:F:19:GLU:N	5	1.4
(1,751)	1:F:58:SER:C	1:F:59:TYR:N	1:F:59:TYR:CA	1:F:59:TYR:C	9	1.4
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	7	1.4
(1,708)	1:F:10:ASP:C	1:F:11:ALA:N	1:F:11:ALA:CA	1:F:11:ALA:C	7	1.4
(1,706)	1:F:8:ILE:C	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	2	1.4
(1,669)	1:E:47:MET:N	1:E:47:MET:CA	1:E:47:MET:C	1:E:48:ASP:N	6	1.4
(1,644)	1:E:18:ASP:N	1:E:18:ASP:CA	1:E:18:ASP:C	1:E:19:GLU:N	5	1.4
(1,644)	1:E:18:ASP:N	1:E:18:ASP:CA	1:E:18:ASP:C	1:E:19:GLU:N	9	1.4
(1,611)	1:E:58:SER:C	1:E:59:TYR:N	1:E:59:TYR:CA	1:E:59:TYR:C	9	1.4
(1,610)	1:E:57:VAL:C	1:E:58:SER:N	1:E:58:SER:CA	1:E:58:SER:C	3	1.4
(1,6)	1:A:8:ILE:C	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	2	1.4
(1,598)	1:E:45:LEU:C	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	6	1.4
(1,598)	1:E:45:LEU:C	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	8	1.4
(1,568)	1:E:10:ASP:C	1:E:11:ALA:N	1:E:11:ALA:CA	1:E:11:ALA:C	7	1.4
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	1	1.4
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	7	1.4
(1,554)	1:D:76:MET:N	1:D:76:MET:CA	1:D:76:MET:C	1:D:77:GLY:N	3	1.4
(1,529)	1:D:47:MET:N	1:D:47:MET:CA	1:D:47:MET:C	1:D:48:ASP:N	6	1.4
(1,51)	1:A:58:SER:C	1:A:59:TYR:N	1:A:59:TYR:CA	1:A:59:TYR:C	9	1.4
(1,504)	1:D:18:ASP:N	1:D:18:ASP:CA	1:D:18:ASP:C	1:D:19:GLU:N	2	1.4
(1,504)	1:D:18:ASP:N	1:D:18:ASP:CA	1:D:18:ASP:C	1:D:19:GLU:N	9	1.4
(1,470)	1:D:57:VAL:C	1:D:58:SER:N	1:D:58:SER:CA	1:D:58:SER:C	9	1.4
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	2	1.4
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	6	1.4
(1,464)	1:D:51:ASP:C	1:D:52:LEU:N	1:D:52:LEU:CA	1:D:52:LEU:C	7	1.4
(1,443)	1:D:26:LYS:C	1:D:27:LEU:N	1:D:27:LEU:CA	1:D:27:LEU:C	5	1.4
(1,443)	1:D:26:LYS:C	1:D:27:LEU:N	1:D:27:LEU:CA	1:D:27:LEU:C	7	1.4
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	2	1.4
(1,44)	1:A:51:ASP:C	1:A:52:LEU:N	1:A:52:LEU:CA	1:A:52:LEU:C	6	1.4
(1,389)	1:C:47:MET:N	1:C:47:MET:CA	1:C:47:MET:C	1:C:48:ASP:N	6	1.4
(1,38)	1:A:45:LEU:C	1:A:46:GLN:N	1:A:46:GLN:CA	1:A:46:GLN:C	6	1.4
(1,364)	1:C:18:ASP:N	1:C:18:ASP:CA	1:C:18:ASP:C	1:C:19:GLU:N	5	1.4
(1,364)	1:C:18:ASP:N	1:C:18:ASP:CA	1:C:18:ASP:C	1:C:19:GLU:N	9	1.4
(1,331)	1:C:58:SER:C	1:C:59:TYR:N	1:C:59:TYR:CA	1:C:59:TYR:C	9	1.4
(1,330)	1:C:57:VAL:C	1:C:58:SER:N	1:C:58:SER:CA	1:C:58:SER:C	3	1.4
(1,318)	1:C:45:LEU:C	1:C:46:GLN:N	1:C:46:GLN:CA	1:C:46:GLN:C	6	1.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	5	1.4
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	7	1.4
(1,286)	1:C:8:ILE:C	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	2	1.4
(1,249)	1:B:47:MET:N	1:B:47:MET:CA	1:B:47:MET:C	1:B:48:ASP:N	6	1.4
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	5	1.4
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	7	1.4
(1,224)	1:B:18:ASP:N	1:B:18:ASP:CA	1:B:18:ASP:C	1:B:19:GLU:N	2	1.4
(1,224)	1:B:18:ASP:N	1:B:18:ASP:CA	1:B:18:ASP:C	1:B:19:GLU:N	5	1.4
(1,214)	1:B:7:ALA:N	1:B:7:ALA:CA	1:B:7:ALA:C	1:B:8:ILE:N	8	1.4
(1,2069)	1:O:47:MET:N	1:O:47:MET:CA	1:O:47:MET:C	1:O:48:ASP:N	6	1.4
(1,2044)	1:O:18:ASP:N	1:O:18:ASP:CA	1:O:18:ASP:C	1:O:19:GLU:N	2	1.4
(1,2011)	1:O:58:SER:C	1:O:59:TYR:N	1:O:59:TYR:CA	1:O:59:TYR:C	9	1.4
(1,2010)	1:O:57:VAL:C	1:O:58:SER:N	1:O:58:SER:CA	1:O:58:SER:C	9	1.4
(1,2004)	1:O:51:ASP:C	1:O:52:LEU:N	1:O:52:LEU:CA	1:O:52:LEU:C	2	1.4
(1,1998)	1:O:45:LEU:C	1:O:46:GLN:N	1:O:46:GLN:CA	1:O:46:GLN:C	6	1.4
(1,1983)	1:O:26:LYS:C	1:O:27:LEU:N	1:O:27:LEU:CA	1:O:27:LEU:C	3	1.4
(1,1983)	1:O:26:LYS:C	1:O:27:LEU:N	1:O:27:LEU:CA	1:O:27:LEU:C	7	1.4
(1,1976)	1:O:19:GLU:C	1:O:20:LEU:N	1:O:20:LEU:CA	1:O:20:LEU:C	8	1.4
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	7	1.4
(1,191)	1:B:58:SER:C	1:B:59:TYR:N	1:B:59:TYR:CA	1:B:59:TYR:C	9	1.4
(1,1904)	1:N:18:ASP:N	1:N:18:ASP:CA	1:N:18:ASP:C	1:N:19:GLU:N	5	1.4
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	6	1.4
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	7	1.4
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	5	1.4
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	7	1.4
(1,1836)	1:N:19:GLU:C	1:N:20:LEU:N	1:N:20:LEU:CA	1:N:20:LEU:C	8	1.4
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	7	1.4
(1,178)	1:B:45:LEU:C	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	6	1.4
(1,1764)	1:M:18:ASP:N	1:M:18:ASP:CA	1:M:18:ASP:C	1:M:19:GLU:N	2	1.4
(1,1764)	1:M:18:ASP:N	1:M:18:ASP:CA	1:M:18:ASP:C	1:M:19:GLU:N	5	1.4
(1,1724)	1:M:51:ASP:C	1:M:52:LEU:N	1:M:52:LEU:CA	1:M:52:LEU:C	2	1.4
(1,1703)	1:M:26:LYS:C	1:M:27:LEU:N	1:M:27:LEU:CA	1:M:27:LEU:C	3	1.4
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	1	1.4
(1,1624)	1:L:18:ASP:N	1:L:18:ASP:CA	1:L:18:ASP:C	1:L:19:GLU:N	2	1.4
(1,1624)	1:L:18:ASP:N	1:L:18:ASP:CA	1:L:18:ASP:C	1:L:19:GLU:N	5	1.4
(1,16)	1:A:19:GLU:C	1:A:20:LEU:N	1:A:20:LEU:CA	1:A:20:LEU:C	8	1.4
(1,156)	1:B:19:GLU:C	1:B:20:LEU:N	1:B:20:LEU:CA	1:B:20:LEU:C	9	1.4
(1,1548)	1:L:10:ASP:C	1:L:11:ALA:N	1:L:11:ALA:CA	1:L:11:ALA:C	7	1.4
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	1	1.4
(1,1509)	1:K:47:MET:N	1:K:47:MET:CA	1:K:47:MET:C	1:K:48:ASP:N	6	1.4
(1,1484)	1:K:18:ASP:N	1:K:18:ASP:CA	1:K:18:ASP:C	1:K:19:GLU:N	9	1.4
(1,148)	1:B:10:ASP:C	1:B:11:ALA:N	1:B:11:ALA:CA	1:B:11:ALA:C	7	1.4
(1,1474)	1:K:7:ALA:N	1:K:7:ALA:CA	1:K:7:ALA:C	1:K:8:ILE:N	8	1.4
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	1	1.4
(1,1451)	1:K:58:SER:C	1:K:59:TYR:N	1:K:59:TYR:CA	1:K:59:TYR:C	9	1.4
(1,1450)	1:K:57:VAL:C	1:K:58:SER:N	1:K:58:SER:CA	1:K:58:SER:C	9	1.4
(1,1444)	1:K:51:ASP:C	1:K:52:LEU:N	1:K:52:LEU:CA	1:K:52:LEU:C	2	1.4
(1,1438)	1:K:45:LEU:C	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	6	1.4
(1,1423)	1:K:26:LYS:C	1:K:27:LEU:N	1:K:27:LEU:CA	1:K:27:LEU:C	3	1.4
(1,1408)	1:K:10:ASP:C	1:K:11:ALA:N	1:K:11:ALA:CA	1:K:11:ALA:C	7	1.4
(1,1406)	1:K:8:ILE:C	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	2	1.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1369)	1:J:47:MET:N	1:J:47:MET:CA	1:J:47:MET:C	1:J:48:ASP:N	6	1.4
(1,1344)	1:J:18:ASP:N	1:J:18:ASP:CA	1:J:18:ASP:C	1:J:19:GLU:N	5	1.4
(1,1344)	1:J:18:ASP:N	1:J:18:ASP:CA	1:J:18:ASP:C	1:J:19:GLU:N	9	1.4
(1,1311)	1:J:58:SER:C	1:J:59:TYR:N	1:J:59:TYR:CA	1:J:59:TYR:C	9	1.4
(1,1304)	1:J:51:ASP:C	1:J:52:LEU:N	1:J:52:LEU:CA	1:J:52:LEU:C	2	1.4
(1,1298)	1:J:45:LEU:C	1:J:46:GLN:N	1:J:46:GLN:CA	1:J:46:GLN:C	6	1.4
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	3	1.4
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	5	1.4
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	7	1.4
(1,1268)	1:J:10:ASP:C	1:J:11:ALA:N	1:J:11:ALA:CA	1:J:11:ALA:C	7	1.4
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	1	1.4
(1,1204)	1:I:18:ASP:N	1:I:18:ASP:CA	1:I:18:ASP:C	1:I:19:GLU:N	2	1.4
(1,1204)	1:I:18:ASP:N	1:I:18:ASP:CA	1:I:18:ASP:C	1:I:19:GLU:N	5	1.4
(1,1194)	1:I:7:ALA:N	1:I:7:ALA:CA	1:I:7:ALA:C	1:I:8:ILE:N	4	1.4
(1,1171)	1:I:58:SER:C	1:I:59:TYR:N	1:I:59:TYR:CA	1:I:59:TYR:C	9	1.4
(1,1158)	1:I:45:LEU:C	1:I:46:GLN:N	1:I:46:GLN:CA	1:I:46:GLN:C	8	1.4
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	3	1.4
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	5	1.4
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	7	1.4
(1,1136)	1:I:19:GLU:C	1:I:20:LEU:N	1:I:20:LEU:CA	1:I:20:LEU:C	8	1.4
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	1	1.4
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	7	1.4
(1,109)	1:A:47:MET:N	1:A:47:MET:CA	1:A:47:MET:C	1:A:48:ASP:N	6	1.4
(1,1031)	1:H:58:SER:C	1:H:59:TYR:N	1:H:59:TYR:CA	1:H:59:TYR:C	9	1.4
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	6	1.4
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	7	1.4
(1,1018)	1:H:45:LEU:C	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	6	1.4
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	3	1.4
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	7	1.4
(1,996)	1:H:19:GLU:C	1:H:20:LEU:N	1:H:20:LEU:CA	1:H:20:LEU:C	5	1.3
(1,986)	1:H:8:ILE:C	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	2	1.3
(1,974)	1:G:76:MET:N	1:G:76:MET:CA	1:G:76:MET:C	1:G:77:GLY:N	3	1.3
(1,949)	1:G:47:MET:N	1:G:47:MET:CA	1:G:47:MET:C	1:G:48:ASP:N	6	1.3
(1,924)	1:G:18:ASP:N	1:G:18:ASP:CA	1:G:18:ASP:C	1:G:19:GLU:N	9	1.3
(1,914)	1:G:7:ALA:N	1:G:7:ALA:CA	1:G:7:ALA:C	1:G:8:ILE:N	7	1.3
(1,914)	1:G:7:ALA:N	1:G:7:ALA:CA	1:G:7:ALA:C	1:G:8:ILE:N	8	1.3
(1,890)	1:G:57:VAL:C	1:G:58:SER:N	1:G:58:SER:CA	1:G:58:SER:C	9	1.3
(1,878)	1:G:45:LEU:C	1:G:46:GLN:N	1:G:46:GLN:CA	1:G:46:GLN:C	8	1.3
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	8	1.3
(1,856)	1:G:19:GLU:C	1:G:20:LEU:N	1:G:20:LEU:CA	1:G:20:LEU:C	8	1.3
(1,819)	1:F:57:VAL:N	1:F:57:VAL:CA	1:F:57:VAL:C	1:F:58:SER:N	5	1.3
(1,809)	1:F:47:MET:N	1:F:47:MET:CA	1:F:47:MET:C	1:F:48:ASP:N	6	1.3
(1,784)	1:F:18:ASP:N	1:F:18:ASP:CA	1:F:18:ASP:C	1:F:19:GLU:N	9	1.3
(1,774)	1:F:7:ALA:N	1:F:7:ALA:CA	1:F:7:ALA:C	1:F:8:ILE:N	4	1.3
(1,774)	1:F:7:ALA:N	1:F:7:ALA:CA	1:F:7:ALA:C	1:F:8:ILE:N	8	1.3
(1,763)	1:F:74:ARG:C	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	1	1.3
(1,750)	1:F:57:VAL:C	1:F:58:SER:N	1:F:58:SER:CA	1:F:58:SER:C	9	1.3
(1,748)	1:F:55:LYS:C	1:F:56:LEU:N	1:F:56:LEU:CA	1:F:56:LEU:C	2	1.3
(1,738)	1:F:45:LEU:C	1:F:46:GLN:N	1:F:46:GLN:CA	1:F:46:GLN:C	8	1.3
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	8	1.3
(1,716)	1:F:19:GLU:C	1:F:20:LEU:N	1:F:20:LEU:CA	1:F:20:LEU:C	5	1.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,716)	1:F:19:GLU:C	1:F:20:LEU:N	1:F:20:LEU:CA	1:F:20:LEU:C	8	1.3
(1,694)	1:E:76:MET:N	1:E:76:MET:CA	1:E:76:MET:C	1:E:77:GLY:N	3	1.3
(1,671)	1:E:49:ALA:N	1:E:49:ALA:CA	1:E:49:ALA:C	1:E:50:ILE:N	4	1.3
(1,610)	1:E:57:VAL:C	1:E:58:SER:N	1:E:58:SER:CA	1:E:58:SER:C	9	1.3
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	5	1.3
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	7	1.3
(1,576)	1:E:19:GLU:C	1:E:20:LEU:N	1:E:20:LEU:CA	1:E:20:LEU:C	8	1.3
(1,566)	1:E:8:ILE:C	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	2	1.3
(1,539)	1:D:57:VAL:N	1:D:57:VAL:CA	1:D:57:VAL:C	1:D:58:SER:N	5	1.3
(1,50)	1:A:57:VAL:C	1:A:58:SER:N	1:A:58:SER:CA	1:A:58:SER:C	2	1.3
(1,50)	1:A:57:VAL:C	1:A:58:SER:N	1:A:58:SER:CA	1:A:58:SER:C	9	1.3
(1,470)	1:D:57:VAL:C	1:D:58:SER:N	1:D:58:SER:CA	1:D:58:SER:C	2	1.3
(1,458)	1:D:45:LEU:C	1:D:46:GLN:N	1:D:46:GLN:CA	1:D:46:GLN:C	8	1.3
(1,436)	1:D:19:GLU:C	1:D:20:LEU:N	1:D:20:LEU:CA	1:D:20:LEU:C	8	1.3
(1,428)	1:D:10:ASP:C	1:D:11:ALA:N	1:D:11:ALA:CA	1:D:11:ALA:C	4	1.3
(1,426)	1:D:8:ILE:C	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	2	1.3
(1,414)	1:C:76:MET:N	1:C:76:MET:CA	1:C:76:MET:C	1:C:77:GLY:N	3	1.3
(1,38)	1:A:45:LEU:C	1:A:46:GLN:N	1:A:46:GLN:CA	1:A:46:GLN:C	8	1.3
(1,356)	1:C:9:LEU:N	1:C:9:LEU:CA	1:C:9:LEU:C	1:C:10:ASP:N	9	1.3
(1,354)	1:C:7:ALA:N	1:C:7:ALA:CA	1:C:7:ALA:C	1:C:8:ILE:N	4	1.3
(1,354)	1:C:7:ALA:N	1:C:7:ALA:CA	1:C:7:ALA:C	1:C:8:ILE:N	7	1.3
(1,354)	1:C:7:ALA:N	1:C:7:ALA:CA	1:C:7:ALA:C	1:C:8:ILE:N	8	1.3
(1,318)	1:C:45:LEU:C	1:C:46:GLN:N	1:C:46:GLN:CA	1:C:46:GLN:C	8	1.3
(1,296)	1:C:19:GLU:C	1:C:20:LEU:N	1:C:20:LEU:CA	1:C:20:LEU:C	5	1.3
(1,296)	1:C:19:GLU:C	1:C:20:LEU:N	1:C:20:LEU:CA	1:C:20:LEU:C	8	1.3
(1,288)	1:C:10:ASP:C	1:C:11:ALA:N	1:C:11:ALA:CA	1:C:11:ALA:C	4	1.3
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	8	1.3
(1,224)	1:B:18:ASP:N	1:B:18:ASP:CA	1:B:18:ASP:C	1:B:19:GLU:N	9	1.3
(1,214)	1:B:7:ALA:N	1:B:7:ALA:CA	1:B:7:ALA:C	1:B:8:ILE:N	4	1.3
(1,2094)	1:O:76:MET:N	1:O:76:MET:CA	1:O:76:MET:C	1:O:77:GLY:N	3	1.3
(1,2079)	1:O:57:VAL:N	1:O:57:VAL:CA	1:O:57:VAL:C	1:O:58:SER:N	5	1.3
(1,2044)	1:O:18:ASP:N	1:O:18:ASP:CA	1:O:18:ASP:C	1:O:19:GLU:N	5	1.3
(1,2044)	1:O:18:ASP:N	1:O:18:ASP:CA	1:O:18:ASP:C	1:O:19:GLU:N	9	1.3
(1,1998)	1:O:45:LEU:C	1:O:46:GLN:N	1:O:46:GLN:CA	1:O:46:GLN:C	8	1.3
(1,1983)	1:O:26:LYS:C	1:O:27:LEU:N	1:O:27:LEU:CA	1:O:27:LEU:C	5	1.3
(1,1983)	1:O:26:LYS:C	1:O:27:LEU:N	1:O:27:LEU:CA	1:O:27:LEU:C	8	1.3
(1,1976)	1:O:19:GLU:C	1:O:20:LEU:N	1:O:20:LEU:CA	1:O:20:LEU:C	5	1.3
(1,1968)	1:O:10:ASP:C	1:O:11:ALA:N	1:O:11:ALA:CA	1:O:11:ALA:C	4	1.3
(1,1954)	1:N:76:MET:N	1:N:76:MET:CA	1:N:76:MET:C	1:N:77:GLY:N	3	1.3
(1,1929)	1:N:47:MET:N	1:N:47:MET:CA	1:N:47:MET:C	1:N:48:ASP:N	6	1.3
(1,1904)	1:N:18:ASP:N	1:N:18:ASP:CA	1:N:18:ASP:C	1:N:19:GLU:N	9	1.3
(1,190)	1:B:57:VAL:C	1:B:58:SER:N	1:B:58:SER:CA	1:B:58:SER:C	2	1.3
(1,190)	1:B:57:VAL:C	1:B:58:SER:N	1:B:58:SER:CA	1:B:58:SER:C	9	1.3
(1,1894)	1:N:7:ALA:N	1:N:7:ALA:CA	1:N:7:ALA:C	1:N:8:ILE:N	7	1.3
(1,1894)	1:N:7:ALA:N	1:N:7:ALA:CA	1:N:7:ALA:C	1:N:8:ILE:N	8	1.3
(1,1870)	1:N:57:VAL:C	1:N:58:SER:N	1:N:58:SER:CA	1:N:58:SER:C	9	1.3
(1,1868)	1:N:55:LYS:C	1:N:56:LEU:N	1:N:56:LEU:CA	1:N:56:LEU:C	2	1.3
(1,1864)	1:N:51:ASP:C	1:N:52:LEU:N	1:N:52:LEU:CA	1:N:52:LEU:C	2	1.3
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	8	1.3
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	8	1.3
(1,1836)	1:N:19:GLU:C	1:N:20:LEU:N	1:N:20:LEU:CA	1:N:20:LEU:C	5	1.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1826)	1:N:8:ILE:C	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	2	1.3
(1,1814)	1:M:76:MET:N	1:M:76:MET:CA	1:M:76:MET:C	1:M:77:GLY:N	3	1.3
(1,1789)	1:M:47:MET:N	1:M:47:MET:CA	1:M:47:MET:C	1:M:48:ASP:N	6	1.3
(1,178)	1:B:45:LEU:C	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	8	1.3
(1,1764)	1:M:18:ASP:N	1:M:18:ASP:CA	1:M:18:ASP:C	1:M:19:GLU:N	9	1.3
(1,1754)	1:M:7:ALA:N	1:M:7:ALA:CA	1:M:7:ALA:C	1:M:8:ILE:N	8	1.3
(1,1730)	1:M:57:VAL:C	1:M:58:SER:N	1:M:58:SER:CA	1:M:58:SER:C	2	1.3
(1,1730)	1:M:57:VAL:C	1:M:58:SER:N	1:M:58:SER:CA	1:M:58:SER:C	9	1.3
(1,1718)	1:M:45:LEU:C	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	8	1.3
(1,1703)	1:M:26:LYS:C	1:M:27:LEU:N	1:M:27:LEU:CA	1:M:27:LEU:C	5	1.3
(1,1703)	1:M:26:LYS:C	1:M:27:LEU:N	1:M:27:LEU:CA	1:M:27:LEU:C	7	1.3
(1,1688)	1:M:10:ASP:C	1:M:11:ALA:N	1:M:11:ALA:CA	1:M:11:ALA:C	4	1.3
(1,1686)	1:M:8:ILE:C	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	2	1.3
(1,1674)	1:L:76:MET:N	1:L:76:MET:CA	1:L:76:MET:C	1:L:77:GLY:N	3	1.3
(1,1649)	1:L:47:MET:N	1:L:47:MET:CA	1:L:47:MET:C	1:L:48:ASP:N	6	1.3
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	1	1.3
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	5	1.3
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	7	1.3
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	8	1.3
(1,1624)	1:L:18:ASP:N	1:L:18:ASP:CA	1:L:18:ASP:C	1:L:19:GLU:N	9	1.3
(1,1603)	1:L:74:ARG:C	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	1	1.3
(1,16)	1:A:19:GLU:C	1:A:20:LEU:N	1:A:20:LEU:CA	1:A:20:LEU:C	5	1.3
(1,1591)	1:L:58:SER:C	1:L:59:TYR:N	1:L:59:TYR:CA	1:L:59:TYR:C	9	1.3
(1,1590)	1:L:57:VAL:C	1:L:58:SER:N	1:L:58:SER:CA	1:L:58:SER:C	9	1.3
(1,1588)	1:L:55:LYS:C	1:L:56:LEU:N	1:L:56:LEU:CA	1:L:56:LEU:C	2	1.3
(1,1578)	1:L:45:LEU:C	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	6	1.3
(1,1578)	1:L:45:LEU:C	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	8	1.3
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	7	1.3
(1,156)	1:B:19:GLU:C	1:B:20:LEU:N	1:B:20:LEU:CA	1:B:20:LEU:C	8	1.3
(1,1556)	1:L:19:GLU:C	1:L:20:LEU:N	1:L:20:LEU:CA	1:L:20:LEU:C	8	1.3
(1,1548)	1:L:10:ASP:C	1:L:11:ALA:N	1:L:11:ALA:CA	1:L:11:ALA:C	4	1.3
(1,1534)	1:K:76:MET:N	1:K:76:MET:CA	1:K:76:MET:C	1:K:77:GLY:N	3	1.3
(1,1519)	1:K:57:VAL:N	1:K:57:VAL:CA	1:K:57:VAL:C	1:K:58:SER:N	5	1.3
(1,148)	1:B:10:ASP:C	1:B:11:ALA:N	1:B:11:ALA:CA	1:B:11:ALA:C	4	1.3
(1,1474)	1:K:7:ALA:N	1:K:7:ALA:CA	1:K:7:ALA:C	1:K:8:ILE:N	4	1.3
(1,1474)	1:K:7:ALA:N	1:K:7:ALA:CA	1:K:7:ALA:C	1:K:8:ILE:N	7	1.3
(1,146)	1:B:8:ILE:C	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	2	1.3
(1,1450)	1:K:57:VAL:C	1:K:58:SER:N	1:K:58:SER:CA	1:K:58:SER:C	2	1.3
(1,1438)	1:K:45:LEU:C	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	8	1.3
(1,1423)	1:K:26:LYS:C	1:K:27:LEU:N	1:K:27:LEU:CA	1:K:27:LEU:C	5	1.3
(1,1423)	1:K:26:LYS:C	1:K:27:LEU:N	1:K:27:LEU:CA	1:K:27:LEU:C	7	1.3
(1,1416)	1:K:19:GLU:C	1:K:20:LEU:N	1:K:20:LEU:CA	1:K:20:LEU:C	5	1.3
(1,1416)	1:K:19:GLU:C	1:K:20:LEU:N	1:K:20:LEU:CA	1:K:20:LEU:C	8	1.3
(1,1408)	1:K:10:ASP:C	1:K:11:ALA:N	1:K:11:ALA:CA	1:K:11:ALA:C	4	1.3
(1,1394)	1:J:76:MET:N	1:J:76:MET:CA	1:J:76:MET:C	1:J:77:GLY:N	3	1.3
(1,1371)	1:J:49:ALA:N	1:J:49:ALA:CA	1:J:49:ALA:C	1:J:50:ILE:N	4	1.3
(1,134)	1:A:76:MET:N	1:A:76:MET:CA	1:A:76:MET:C	1:A:77:GLY:N	3	1.3
(1,1334)	1:J:7:ALA:N	1:J:7:ALA:CA	1:J:7:ALA:C	1:J:8:ILE:N	4	1.3
(1,1310)	1:J:57:VAL:C	1:J:58:SER:N	1:J:58:SER:CA	1:J:58:SER:C	2	1.3
(1,1310)	1:J:57:VAL:C	1:J:58:SER:N	1:J:58:SER:CA	1:J:58:SER:C	9	1.3
(1,1298)	1:J:45:LEU:C	1:J:46:GLN:N	1:J:46:GLN:CA	1:J:46:GLN:C	8	1.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1276)	1:J:19:GLU:C	1:J:20:LEU:N	1:J:20:LEU:CA	1:J:20:LEU:C	5	1.3
(1,1276)	1:J:19:GLU:C	1:J:20:LEU:N	1:J:20:LEU:CA	1:J:20:LEU:C	8	1.3
(1,1266)	1:J:8:ILE:C	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	2	1.3
(1,1254)	1:I:76:MET:N	1:I:76:MET:CA	1:I:76:MET:C	1:I:77:GLY:N	3	1.3
(1,1229)	1:I:47:MET:N	1:I:47:MET:CA	1:I:47:MET:C	1:I:48:ASP:N	6	1.3
(1,1204)	1:I:18:ASP:N	1:I:18:ASP:CA	1:I:18:ASP:C	1:I:19:GLU:N	9	1.3
(1,1194)	1:I:7:ALA:N	1:I:7:ALA:CA	1:I:7:ALA:C	1:I:8:ILE:N	2	1.3
(1,1194)	1:I:7:ALA:N	1:I:7:ALA:CA	1:I:7:ALA:C	1:I:8:ILE:N	8	1.3
(1,1170)	1:I:57:VAL:C	1:I:58:SER:N	1:I:58:SER:CA	1:I:58:SER:C	2	1.3
(1,1170)	1:I:57:VAL:C	1:I:58:SER:N	1:I:58:SER:CA	1:I:58:SER:C	9	1.3
(1,1136)	1:I:19:GLU:C	1:I:20:LEU:N	1:I:20:LEU:CA	1:I:20:LEU:C	5	1.3
(1,1128)	1:I:10:ASP:C	1:I:11:ALA:N	1:I:11:ALA:CA	1:I:11:ALA:C	4	1.3
(1,1126)	1:I:8:ILE:C	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	2	1.3
(1,1114)	1:H:76:MET:N	1:H:76:MET:CA	1:H:76:MET:C	1:H:77:GLY:N	3	1.3
(1,111)	1:A:49:ALA:N	1:A:49:ALA:CA	1:A:49:ALA:C	1:A:50:ILE:N	4	1.3
(1,1089)	1:H:47:MET:N	1:H:47:MET:CA	1:H:47:MET:C	1:H:48:ASP:N	6	1.3
(1,1069)	1:H:23:PHE:N	1:H:23:PHE:CA	1:H:23:PHE:C	1:H:24:LYS:N	9	1.3
(1,1064)	1:H:18:ASP:N	1:H:18:ASP:CA	1:H:18:ASP:C	1:H:19:GLU:N	5	1.3
(1,1064)	1:H:18:ASP:N	1:H:18:ASP:CA	1:H:18:ASP:C	1:H:19:GLU:N	9	1.3
(1,1054)	1:H:7:ALA:N	1:H:7:ALA:CA	1:H:7:ALA:C	1:H:8:ILE:N	4	1.3
(1,1054)	1:H:7:ALA:N	1:H:7:ALA:CA	1:H:7:ALA:C	1:H:8:ILE:N	8	1.3
(1,1030)	1:H:57:VAL:C	1:H:58:SER:N	1:H:58:SER:CA	1:H:58:SER:C	9	1.3
(1,1024)	1:H:51:ASP:C	1:H:52:LEU:N	1:H:52:LEU:CA	1:H:52:LEU:C	2	1.3
(1,1018)	1:H:45:LEU:C	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	8	1.3
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	5	1.3
(1,996)	1:H:19:GLU:C	1:H:20:LEU:N	1:H:20:LEU:CA	1:H:20:LEU:C	8	1.2
(1,988)	1:H:10:ASP:C	1:H:11:ALA:N	1:H:11:ALA:CA	1:H:11:ALA:C	4	1.2
(1,959)	1:G:57:VAL:N	1:G:57:VAL:CA	1:G:57:VAL:C	1:G:58:SER:N	5	1.2
(1,951)	1:G:49:ALA:N	1:G:49:ALA:CA	1:G:49:ALA:C	1:G:50:ILE:N	4	1.2
(1,949)	1:G:47:MET:N	1:G:47:MET:CA	1:G:47:MET:C	1:G:48:ASP:N	2	1.2
(1,949)	1:G:47:MET:N	1:G:47:MET:CA	1:G:47:MET:C	1:G:48:ASP:N	4	1.2
(1,949)	1:G:47:MET:N	1:G:47:MET:CA	1:G:47:MET:C	1:G:48:ASP:N	9	1.2
(1,929)	1:G:23:PHE:N	1:G:23:PHE:CA	1:G:23:PHE:C	1:G:24:LYS:N	9	1.2
(1,924)	1:G:18:ASP:N	1:G:18:ASP:CA	1:G:18:ASP:C	1:G:19:GLU:N	4	1.2
(1,916)	1:G:9:LEU:N	1:G:9:LEU:CA	1:G:9:LEU:C	1:G:10:ASP:N	9	1.2
(1,914)	1:G:7:ALA:N	1:G:7:ALA:CA	1:G:7:ALA:C	1:G:8:ILE:N	9	1.2
(1,903)	1:G:74:ARG:C	1:G:75:ASP:N	1:G:75:ASP:CA	1:G:75:ASP:C	1	1.2
(1,890)	1:G:57:VAL:C	1:G:58:SER:N	1:G:58:SER:CA	1:G:58:SER:C	2	1.2
(1,89)	1:A:23:PHE:N	1:A:23:PHE:CA	1:A:23:PHE:C	1:A:24:LYS:N	9	1.2
(1,878)	1:G:45:LEU:C	1:G:46:GLN:N	1:G:46:GLN:CA	1:G:46:GLN:C	9	1.2
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	1	1.2
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	10	1.2
(1,856)	1:G:19:GLU:C	1:G:20:LEU:N	1:G:20:LEU:CA	1:G:20:LEU:C	5	1.2
(1,848)	1:G:10:ASP:C	1:G:11:ALA:N	1:G:11:ALA:CA	1:G:11:ALA:C	4	1.2
(1,84)	1:A:18:ASP:N	1:A:18:ASP:CA	1:A:18:ASP:C	1:A:19:GLU:N	4	1.2
(1,84)	1:A:18:ASP:N	1:A:18:ASP:CA	1:A:18:ASP:C	1:A:19:GLU:N	7	1.2
(1,834)	1:F:76:MET:N	1:F:76:MET:CA	1:F:76:MET:C	1:F:77:GLY:N	3	1.2
(1,811)	1:F:49:ALA:N	1:F:49:ALA:CA	1:F:49:ALA:C	1:F:50:ILE:N	4	1.2
(1,8)	1:A:10:ASP:C	1:A:11:ALA:N	1:A:11:ALA:CA	1:A:11:ALA:C	4	1.2
(1,789)	1:F:23:PHE:N	1:F:23:PHE:CA	1:F:23:PHE:C	1:F:24:LYS:N	9	1.2
(1,784)	1:F:18:ASP:N	1:F:18:ASP:CA	1:F:18:ASP:C	1:F:19:GLU:N	4	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,776)	1:F:9:LEU:N	1:F:9:LEU:CA	1:F:9:LEU:C	1:F:10:ASP:N	9	1.2
(1,774)	1:F:7:ALA:N	1:F:7:ALA:CA	1:F:7:ALA:C	1:F:8:ILE:N	7	1.2
(1,763)	1:F:74:ARG:C	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	7	1.2
(1,76)	1:A:9:LEU:N	1:A:9:LEU:CA	1:A:9:LEU:C	1:A:10:ASP:N	9	1.2
(1,750)	1:F:57:VAL:C	1:F:58:SER:N	1:F:58:SER:CA	1:F:58:SER:C	2	1.2
(1,74)	1:A:7:ALA:N	1:A:7:ALA:CA	1:A:7:ALA:C	1:A:8:ILE:N	4	1.2
(1,74)	1:A:7:ALA:N	1:A:7:ALA:CA	1:A:7:ALA:C	1:A:8:ILE:N	8	1.2
(1,738)	1:F:45:LEU:C	1:F:46:GLN:N	1:F:46:GLN:CA	1:F:46:GLN:C	9	1.2
(1,730)	1:F:37:GLY:C	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	8	1.2
(1,726)	1:F:29:THR:C	1:F:30:VAL:N	1:F:30:VAL:CA	1:F:30:VAL:C	8	1.2
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	1	1.2
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	10	1.2
(1,716)	1:F:19:GLU:C	1:F:20:LEU:N	1:F:20:LEU:CA	1:F:20:LEU:C	1	1.2
(1,708)	1:F:10:ASP:C	1:F:11:ALA:N	1:F:11:ALA:CA	1:F:11:ALA:C	4	1.2
(1,669)	1:E:47:MET:N	1:E:47:MET:CA	1:E:47:MET:C	1:E:48:ASP:N	4	1.2
(1,669)	1:E:47:MET:N	1:E:47:MET:CA	1:E:47:MET:C	1:E:48:ASP:N	9	1.2
(1,649)	1:E:23:PHE:N	1:E:23:PHE:CA	1:E:23:PHE:C	1:E:24:LYS:N	9	1.2
(1,644)	1:E:18:ASP:N	1:E:18:ASP:CA	1:E:18:ASP:C	1:E:19:GLU:N	4	1.2
(1,644)	1:E:18:ASP:N	1:E:18:ASP:CA	1:E:18:ASP:C	1:E:19:GLU:N	7	1.2
(1,636)	1:E:9:LEU:N	1:E:9:LEU:CA	1:E:9:LEU:C	1:E:10:ASP:N	9	1.2
(1,634)	1:E:7:ALA:N	1:E:7:ALA:CA	1:E:7:ALA:C	1:E:8:ILE:N	4	1.2
(1,634)	1:E:7:ALA:N	1:E:7:ALA:CA	1:E:7:ALA:C	1:E:8:ILE:N	8	1.2
(1,634)	1:E:7:ALA:N	1:E:7:ALA:CA	1:E:7:ALA:C	1:E:8:ILE:N	9	1.2
(1,623)	1:E:74:ARG:C	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	1	1.2
(1,611)	1:E:58:SER:C	1:E:59:TYR:N	1:E:59:TYR:CA	1:E:59:TYR:C	5	1.2
(1,610)	1:E:57:VAL:C	1:E:58:SER:N	1:E:58:SER:CA	1:E:58:SER:C	2	1.2
(1,598)	1:E:45:LEU:C	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	3	1.2
(1,598)	1:E:45:LEU:C	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	9	1.2
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	1	1.2
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	8	1.2
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	10	1.2
(1,576)	1:E:19:GLU:C	1:E:20:LEU:N	1:E:20:LEU:CA	1:E:20:LEU:C	5	1.2
(1,568)	1:E:10:ASP:C	1:E:11:ALA:N	1:E:11:ALA:CA	1:E:11:ALA:C	4	1.2
(1,553)	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	1:D:76:MET:N	6	1.2
(1,529)	1:D:47:MET:N	1:D:47:MET:CA	1:D:47:MET:C	1:D:48:ASP:N	4	1.2
(1,504)	1:D:18:ASP:N	1:D:18:ASP:CA	1:D:18:ASP:C	1:D:19:GLU:N	4	1.2
(1,496)	1:D:9:LEU:N	1:D:9:LEU:CA	1:D:9:LEU:C	1:D:10:ASP:N	9	1.2
(1,494)	1:D:7:ALA:N	1:D:7:ALA:CA	1:D:7:ALA:C	1:D:8:ILE:N	4	1.2
(1,494)	1:D:7:ALA:N	1:D:7:ALA:CA	1:D:7:ALA:C	1:D:8:ILE:N	7	1.2
(1,494)	1:D:7:ALA:N	1:D:7:ALA:CA	1:D:7:ALA:C	1:D:8:ILE:N	8	1.2
(1,483)	1:D:74:ARG:C	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	1	1.2
(1,48)	1:A:55:LYS:C	1:A:56:LEU:N	1:A:56:LEU:CA	1:A:56:LEU:C	2	1.2
(1,468)	1:D:55:LYS:C	1:D:56:LEU:N	1:D:56:LEU:CA	1:D:56:LEU:C	2	1.2
(1,458)	1:D:45:LEU:C	1:D:46:GLN:N	1:D:46:GLN:CA	1:D:46:GLN:C	9	1.2
(1,443)	1:D:26:LYS:C	1:D:27:LEU:N	1:D:27:LEU:CA	1:D:27:LEU:C	1	1.2
(1,443)	1:D:26:LYS:C	1:D:27:LEU:N	1:D:27:LEU:CA	1:D:27:LEU:C	8	1.2
(1,443)	1:D:26:LYS:C	1:D:27:LEU:N	1:D:27:LEU:CA	1:D:27:LEU:C	10	1.2
(1,436)	1:D:19:GLU:C	1:D:20:LEU:N	1:D:20:LEU:CA	1:D:20:LEU:C	1	1.2
(1,436)	1:D:19:GLU:C	1:D:20:LEU:N	1:D:20:LEU:CA	1:D:20:LEU:C	5	1.2
(1,428)	1:D:10:ASP:C	1:D:11:ALA:N	1:D:11:ALA:CA	1:D:11:ALA:C	1	1.2
(1,413)	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	1:C:76:MET:N	6	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,399)	1:C:57:VAL:N	1:C:57:VAL:CA	1:C:57:VAL:C	1:C:58:SER:N	5	1.2
(1,391)	1:C:49:ALA:N	1:C:49:ALA:CA	1:C:49:ALA:C	1:C:50:ILE:N	4	1.2
(1,389)	1:C:47:MET:N	1:C:47:MET:CA	1:C:47:MET:C	1:C:48:ASP:N	4	1.2
(1,389)	1:C:47:MET:N	1:C:47:MET:CA	1:C:47:MET:C	1:C:48:ASP:N	9	1.2
(1,369)	1:C:23:PHE:N	1:C:23:PHE:CA	1:C:23:PHE:C	1:C:24:LYS:N	9	1.2
(1,364)	1:C:18:ASP:N	1:C:18:ASP:CA	1:C:18:ASP:C	1:C:19:GLU:N	4	1.2
(1,364)	1:C:18:ASP:N	1:C:18:ASP:CA	1:C:18:ASP:C	1:C:19:GLU:N	7	1.2
(1,354)	1:C:7:ALA:N	1:C:7:ALA:CA	1:C:7:ALA:C	1:C:8:ILE:N	2	1.2
(1,354)	1:C:7:ALA:N	1:C:7:ALA:CA	1:C:7:ALA:C	1:C:8:ILE:N	5	1.2
(1,354)	1:C:7:ALA:N	1:C:7:ALA:CA	1:C:7:ALA:C	1:C:8:ILE:N	9	1.2
(1,343)	1:C:74:ARG:C	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	1	1.2
(1,331)	1:C:58:SER:C	1:C:59:TYR:N	1:C:59:TYR:CA	1:C:59:TYR:C	5	1.2
(1,330)	1:C:57:VAL:C	1:C:58:SER:N	1:C:58:SER:CA	1:C:58:SER:C	2	1.2
(1,330)	1:C:57:VAL:C	1:C:58:SER:N	1:C:58:SER:CA	1:C:58:SER:C	9	1.2
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	1	1.2
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	8	1.2
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	10	1.2
(1,30)	1:A:37:GLY:C	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	8	1.2
(1,296)	1:C:19:GLU:C	1:C:20:LEU:N	1:C:20:LEU:CA	1:C:20:LEU:C	1	1.2
(1,274)	1:B:76:MET:N	1:B:76:MET:CA	1:B:76:MET:C	1:B:77:GLY:N	3	1.2
(1,26)	1:A:29:THR:C	1:A:30:VAL:N	1:A:30:VAL:CA	1:A:30:VAL:C	8	1.2
(1,259)	1:B:57:VAL:N	1:B:57:VAL:CA	1:B:57:VAL:C	1:B:58:SER:N	5	1.2
(1,251)	1:B:49:ALA:N	1:B:49:ALA:CA	1:B:49:ALA:C	1:B:50:ILE:N	4	1.2
(1,249)	1:B:47:MET:N	1:B:47:MET:CA	1:B:47:MET:C	1:B:48:ASP:N	4	1.2
(1,249)	1:B:47:MET:N	1:B:47:MET:CA	1:B:47:MET:C	1:B:48:ASP:N	9	1.2
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	1	1.2
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	10	1.2
(1,229)	1:B:23:PHE:N	1:B:23:PHE:CA	1:B:23:PHE:C	1:B:24:LYS:N	9	1.2
(1,224)	1:B:18:ASP:N	1:B:18:ASP:CA	1:B:18:ASP:C	1:B:19:GLU:N	4	1.2
(1,224)	1:B:18:ASP:N	1:B:18:ASP:CA	1:B:18:ASP:C	1:B:19:GLU:N	7	1.2
(1,214)	1:B:7:ALA:N	1:B:7:ALA:CA	1:B:7:ALA:C	1:B:8:ILE:N	7	1.2
(1,214)	1:B:7:ALA:N	1:B:7:ALA:CA	1:B:7:ALA:C	1:B:8:ILE:N	9	1.2
(1,214)	1:B:7:ALA:N	1:B:7:ALA:CA	1:B:7:ALA:C	1:B:8:ILE:N	10	1.2
(1,2071)	1:O:49:ALA:N	1:O:49:ALA:CA	1:O:49:ALA:C	1:O:50:ILE:N	4	1.2
(1,2069)	1:O:47:MET:N	1:O:47:MET:CA	1:O:47:MET:C	1:O:48:ASP:N	2	1.2
(1,2069)	1:O:47:MET:N	1:O:47:MET:CA	1:O:47:MET:C	1:O:48:ASP:N	4	1.2
(1,2069)	1:O:47:MET:N	1:O:47:MET:CA	1:O:47:MET:C	1:O:48:ASP:N	9	1.2
(1,2049)	1:O:23:PHE:N	1:O:23:PHE:CA	1:O:23:PHE:C	1:O:24:LYS:N	9	1.2
(1,2044)	1:O:18:ASP:N	1:O:18:ASP:CA	1:O:18:ASP:C	1:O:19:GLU:N	4	1.2
(1,2036)	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	1:O:10:ASP:N	9	1.2
(1,2034)	1:O:7:ALA:N	1:O:7:ALA:CA	1:O:7:ALA:C	1:O:8:ILE:N	4	1.2
(1,2034)	1:O:7:ALA:N	1:O:7:ALA:CA	1:O:7:ALA:C	1:O:8:ILE:N	8	1.2
(1,203)	1:B:74:ARG:C	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	1	1.2
(1,2023)	1:O:74:ARG:C	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	1	1.2
(1,2010)	1:O:57:VAL:C	1:O:58:SER:N	1:O:58:SER:CA	1:O:58:SER:C	2	1.2
(1,2008)	1:O:55:LYS:C	1:O:56:LEU:N	1:O:56:LEU:CA	1:O:56:LEU:C	2	1.2
(1,1990)	1:O:37:GLY:C	1:O:38:ARG:N	1:O:38:ARG:CA	1:O:38:ARG:C	8	1.2
(1,1983)	1:O:26:LYS:C	1:O:27:LEU:N	1:O:27:LEU:CA	1:O:27:LEU:C	1	1.2
(1,1983)	1:O:26:LYS:C	1:O:27:LEU:N	1:O:27:LEU:CA	1:O:27:LEU:C	10	1.2
(1,1976)	1:O:19:GLU:C	1:O:20:LEU:N	1:O:20:LEU:CA	1:O:20:LEU:C	1	1.2
(1,1968)	1:O:10:ASP:C	1:O:11:ALA:N	1:O:11:ALA:CA	1:O:11:ALA:C	1	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1966)	1:O:8:ILE:C	1:O:9:LEU:N	1:O:9:LEU:CA	1:O:9:LEU:C	2	1.2
(1,1939)	1:N:57:VAL:N	1:N:57:VAL:CA	1:N:57:VAL:C	1:N:58:SER:N	5	1.2
(1,1931)	1:N:49:ALA:N	1:N:49:ALA:CA	1:N:49:ALA:C	1:N:50:ILE:N	4	1.2
(1,1929)	1:N:47:MET:N	1:N:47:MET:CA	1:N:47:MET:C	1:N:48:ASP:N	2	1.2
(1,1929)	1:N:47:MET:N	1:N:47:MET:CA	1:N:47:MET:C	1:N:48:ASP:N	4	1.2
(1,1929)	1:N:47:MET:N	1:N:47:MET:CA	1:N:47:MET:C	1:N:48:ASP:N	9	1.2
(1,1909)	1:N:23:PHE:N	1:N:23:PHE:CA	1:N:23:PHE:C	1:N:24:LYS:N	9	1.2
(1,1904)	1:N:18:ASP:N	1:N:18:ASP:CA	1:N:18:ASP:C	1:N:19:GLU:N	4	1.2
(1,1904)	1:N:18:ASP:N	1:N:18:ASP:CA	1:N:18:ASP:C	1:N:19:GLU:N	7	1.2
(1,1894)	1:N:7:ALA:N	1:N:7:ALA:CA	1:N:7:ALA:C	1:N:8:ILE:N	2	1.2
(1,1894)	1:N:7:ALA:N	1:N:7:ALA:CA	1:N:7:ALA:C	1:N:8:ILE:N	4	1.2
(1,1894)	1:N:7:ALA:N	1:N:7:ALA:CA	1:N:7:ALA:C	1:N:8:ILE:N	5	1.2
(1,1894)	1:N:7:ALA:N	1:N:7:ALA:CA	1:N:7:ALA:C	1:N:8:ILE:N	9	1.2
(1,1883)	1:N:74:ARG:C	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	1	1.2
(1,1871)	1:N:58:SER:C	1:N:59:TYR:N	1:N:59:TYR:CA	1:N:59:TYR:C	5	1.2
(1,1870)	1:N:57:VAL:C	1:N:58:SER:N	1:N:58:SER:CA	1:N:58:SER:C	2	1.2
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	3	1.2
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	9	1.2
(1,1850)	1:N:37:GLY:C	1:N:38:ARG:N	1:N:38:ARG:CA	1:N:38:ARG:C	8	1.2
(1,1846)	1:N:29:THR:C	1:N:30:VAL:N	1:N:30:VAL:CA	1:N:30:VAL:C	8	1.2
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	1	1.2
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	10	1.2
(1,1828)	1:N:10:ASP:C	1:N:11:ALA:N	1:N:11:ALA:CA	1:N:11:ALA:C	4	1.2
(1,1799)	1:M:57:VAL:N	1:M:57:VAL:CA	1:M:57:VAL:C	1:M:58:SER:N	5	1.2
(1,1791)	1:M:49:ALA:N	1:M:49:ALA:CA	1:M:49:ALA:C	1:M:50:ILE:N	4	1.2
(1,1789)	1:M:47:MET:N	1:M:47:MET:CA	1:M:47:MET:C	1:M:48:ASP:N	4	1.2
(1,1789)	1:M:47:MET:N	1:M:47:MET:CA	1:M:47:MET:C	1:M:48:ASP:N	9	1.2
(1,178)	1:B:45:LEU:C	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	3	1.2
(1,178)	1:B:45:LEU:C	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	9	1.2
(1,1754)	1:M:7:ALA:N	1:M:7:ALA:CA	1:M:7:ALA:C	1:M:8:ILE:N	2	1.2
(1,1754)	1:M:7:ALA:N	1:M:7:ALA:CA	1:M:7:ALA:C	1:M:8:ILE:N	4	1.2
(1,1754)	1:M:7:ALA:N	1:M:7:ALA:CA	1:M:7:ALA:C	1:M:8:ILE:N	7	1.2
(1,1731)	1:M:58:SER:C	1:M:59:TYR:N	1:M:59:TYR:CA	1:M:59:TYR:C	5	1.2
(1,1728)	1:M:55:LYS:C	1:M:56:LEU:N	1:M:56:LEU:CA	1:M:56:LEU:C	2	1.2
(1,1718)	1:M:45:LEU:C	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	3	1.2
(1,1718)	1:M:45:LEU:C	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	9	1.2
(1,1706)	1:M:29:THR:C	1:M:30:VAL:N	1:M:30:VAL:CA	1:M:30:VAL:C	8	1.2
(1,1703)	1:M:26:LYS:C	1:M:27:LEU:N	1:M:27:LEU:CA	1:M:27:LEU:C	1	1.2
(1,1703)	1:M:26:LYS:C	1:M:27:LEU:N	1:M:27:LEU:CA	1:M:27:LEU:C	8	1.2
(1,170)	1:B:37:GLY:C	1:B:38:ARG:N	1:B:38:ARG:CA	1:B:38:ARG:C	8	1.2
(1,1696)	1:M:19:GLU:C	1:M:20:LEU:N	1:M:20:LEU:CA	1:M:20:LEU:C	1	1.2
(1,1696)	1:M:19:GLU:C	1:M:20:LEU:N	1:M:20:LEU:CA	1:M:20:LEU:C	5	1.2
(1,1696)	1:M:19:GLU:C	1:M:20:LEU:N	1:M:20:LEU:CA	1:M:20:LEU:C	8	1.2
(1,166)	1:B:29:THR:C	1:B:30:VAL:N	1:B:30:VAL:CA	1:B:30:VAL:C	8	1.2
(1,1659)	1:L:57:VAL:N	1:L:57:VAL:CA	1:L:57:VAL:C	1:L:58:SER:N	5	1.2
(1,1649)	1:L:47:MET:N	1:L:47:MET:CA	1:L:47:MET:C	1:L:48:ASP:N	4	1.2
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	10	1.2
(1,1629)	1:L:23:PHE:N	1:L:23:PHE:CA	1:L:23:PHE:C	1:L:24:LYS:N	9	1.2
(1,1624)	1:L:18:ASP:N	1:L:18:ASP:CA	1:L:18:ASP:C	1:L:19:GLU:N	4	1.2
(1,1616)	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	1:L:10:ASP:N	9	1.2
(1,1614)	1:L:7:ALA:N	1:L:7:ALA:CA	1:L:7:ALA:C	1:L:8:ILE:N	4	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1614)	1:L:7:ALA:N	1:L:7:ALA:CA	1:L:7:ALA:C	1:L:8:ILE:N	8	1.2
(1,1614)	1:L:7:ALA:N	1:L:7:ALA:CA	1:L:7:ALA:C	1:L:8:ILE:N	9	1.2
(1,16)	1:A:19:GLU:C	1:A:20:LEU:N	1:A:20:LEU:CA	1:A:20:LEU:C	1	1.2
(1,1590)	1:L:57:VAL:C	1:L:58:SER:N	1:L:58:SER:CA	1:L:58:SER:C	2	1.2
(1,1578)	1:L:45:LEU:C	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	9	1.2
(1,1570)	1:L:37:GLY:C	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	8	1.2
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	1	1.2
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	8	1.2
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	10	1.2
(1,156)	1:B:19:GLU:C	1:B:20:LEU:N	1:B:20:LEU:CA	1:B:20:LEU:C	5	1.2
(1,1556)	1:L:19:GLU:C	1:L:20:LEU:N	1:L:20:LEU:CA	1:L:20:LEU:C	1	1.2
(1,1556)	1:L:19:GLU:C	1:L:20:LEU:N	1:L:20:LEU:CA	1:L:20:LEU:C	5	1.2
(1,1546)	1:L:8:ILE:C	1:L:9:LEU:N	1:L:9:LEU:CA	1:L:9:LEU:C	2	1.2
(1,1533)	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	1:K:76:MET:N	6	1.2
(1,1511)	1:K:49:ALA:N	1:K:49:ALA:CA	1:K:49:ALA:C	1:K:50:ILE:N	4	1.2
(1,1509)	1:K:47:MET:N	1:K:47:MET:CA	1:K:47:MET:C	1:K:48:ASP:N	4	1.2
(1,1509)	1:K:47:MET:N	1:K:47:MET:CA	1:K:47:MET:C	1:K:48:ASP:N	9	1.2
(1,1484)	1:K:18:ASP:N	1:K:18:ASP:CA	1:K:18:ASP:C	1:K:19:GLU:N	4	1.2
(1,1476)	1:K:9:LEU:N	1:K:9:LEU:CA	1:K:9:LEU:C	1:K:10:ASP:N	9	1.2
(1,1474)	1:K:7:ALA:N	1:K:7:ALA:CA	1:K:7:ALA:C	1:K:8:ILE:N	2	1.2
(1,1474)	1:K:7:ALA:N	1:K:7:ALA:CA	1:K:7:ALA:C	1:K:8:ILE:N	5	1.2
(1,1474)	1:K:7:ALA:N	1:K:7:ALA:CA	1:K:7:ALA:C	1:K:8:ILE:N	9	1.2
(1,1474)	1:K:7:ALA:N	1:K:7:ALA:CA	1:K:7:ALA:C	1:K:8:ILE:N	10	1.2
(1,1463)	1:K:74:ARG:C	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	1	1.2
(1,1448)	1:K:55:LYS:C	1:K:56:LEU:N	1:K:56:LEU:CA	1:K:56:LEU:C	2	1.2
(1,1438)	1:K:45:LEU:C	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	3	1.2
(1,1438)	1:K:45:LEU:C	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	4	1.2
(1,1423)	1:K:26:LYS:C	1:K:27:LEU:N	1:K:27:LEU:CA	1:K:27:LEU:C	8	1.2
(1,1416)	1:K:19:GLU:C	1:K:20:LEU:N	1:K:20:LEU:CA	1:K:20:LEU:C	1	1.2
(1,1379)	1:J:57:VAL:N	1:J:57:VAL:CA	1:J:57:VAL:C	1:J:58:SER:N	5	1.2
(1,1369)	1:J:47:MET:N	1:J:47:MET:CA	1:J:47:MET:C	1:J:48:ASP:N	4	1.2
(1,1369)	1:J:47:MET:N	1:J:47:MET:CA	1:J:47:MET:C	1:J:48:ASP:N	9	1.2
(1,1344)	1:J:18:ASP:N	1:J:18:ASP:CA	1:J:18:ASP:C	1:J:19:GLU:N	4	1.2
(1,1334)	1:J:7:ALA:N	1:J:7:ALA:CA	1:J:7:ALA:C	1:J:8:ILE:N	5	1.2
(1,1334)	1:J:7:ALA:N	1:J:7:ALA:CA	1:J:7:ALA:C	1:J:8:ILE:N	7	1.2
(1,1334)	1:J:7:ALA:N	1:J:7:ALA:CA	1:J:7:ALA:C	1:J:8:ILE:N	8	1.2
(1,1334)	1:J:7:ALA:N	1:J:7:ALA:CA	1:J:7:ALA:C	1:J:8:ILE:N	9	1.2
(1,1323)	1:J:74:ARG:C	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	1	1.2
(1,1290)	1:J:37:GLY:C	1:J:38:ARG:N	1:J:38:ARG:CA	1:J:38:ARG:C	8	1.2
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	1	1.2
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	8	1.2
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	10	1.2
(1,1268)	1:J:10:ASP:C	1:J:11:ALA:N	1:J:11:ALA:CA	1:J:11:ALA:C	4	1.2
(1,1239)	1:I:57:VAL:N	1:I:57:VAL:CA	1:I:57:VAL:C	1:I:58:SER:N	5	1.2
(1,1231)	1:I:49:ALA:N	1:I:49:ALA:CA	1:I:49:ALA:C	1:I:50:ILE:N	4	1.2
(1,1229)	1:I:47:MET:N	1:I:47:MET:CA	1:I:47:MET:C	1:I:48:ASP:N	4	1.2
(1,1209)	1:I:23:PHE:N	1:I:23:PHE:CA	1:I:23:PHE:C	1:I:24:LYS:N	9	1.2
(1,1204)	1:I:18:ASP:N	1:I:18:ASP:CA	1:I:18:ASP:C	1:I:19:GLU:N	4	1.2
(1,1204)	1:I:18:ASP:N	1:I:18:ASP:CA	1:I:18:ASP:C	1:I:19:GLU:N	7	1.2
(1,1196)	1:I:9:LEU:N	1:I:9:LEU:CA	1:I:9:LEU:C	1:I:10:ASP:N	9	1.2
(1,1194)	1:I:7:ALA:N	1:I:7:ALA:CA	1:I:7:ALA:C	1:I:8:ILE:N	5	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1194)	1:I:7:ALA:N	1:I:7:ALA:CA	1:I:7:ALA:C	1:I:8:ILE:N	7	1.2
(1,1194)	1:I:7:ALA:N	1:I:7:ALA:CA	1:I:7:ALA:C	1:I:8:ILE:N	9	1.2
(1,1194)	1:I:7:ALA:N	1:I:7:ALA:CA	1:I:7:ALA:C	1:I:8:ILE:N	10	1.2
(1,119)	1:A:57:VAL:N	1:A:57:VAL:CA	1:A:57:VAL:C	1:A:58:SER:N	5	1.2
(1,1150)	1:I:37:GLY:C	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	8	1.2
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	1	1.2
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	2	1.2
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	8	1.2
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	9	1.2
(1,1143)	1:I:26:LYS:C	1:I:27:LEU:N	1:I:27:LEU:CA	1:I:27:LEU:C	10	1.2
(1,1128)	1:I:10:ASP:C	1:I:11:ALA:N	1:I:11:ALA:CA	1:I:11:ALA:C	1	1.2
(1,1113)	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	1:H:76:MET:N	6	1.2
(1,1099)	1:H:57:VAL:N	1:H:57:VAL:CA	1:H:57:VAL:C	1:H:58:SER:N	5	1.2
(1,109)	1:A:47:MET:N	1:A:47:MET:CA	1:A:47:MET:C	1:A:48:ASP:N	2	1.2
(1,109)	1:A:47:MET:N	1:A:47:MET:CA	1:A:47:MET:C	1:A:48:ASP:N	4	1.2
(1,109)	1:A:47:MET:N	1:A:47:MET:CA	1:A:47:MET:C	1:A:48:ASP:N	9	1.2
(1,1089)	1:H:47:MET:N	1:H:47:MET:CA	1:H:47:MET:C	1:H:48:ASP:N	4	1.2
(1,1089)	1:H:47:MET:N	1:H:47:MET:CA	1:H:47:MET:C	1:H:48:ASP:N	9	1.2
(1,1064)	1:H:18:ASP:N	1:H:18:ASP:CA	1:H:18:ASP:C	1:H:19:GLU:N	4	1.2
(1,1056)	1:H:9:LEU:N	1:H:9:LEU:CA	1:H:9:LEU:C	1:H:10:ASP:N	9	1.2
(1,1054)	1:H:7:ALA:N	1:H:7:ALA:CA	1:H:7:ALA:C	1:H:8:ILE:N	2	1.2
(1,1054)	1:H:7:ALA:N	1:H:7:ALA:CA	1:H:7:ALA:C	1:H:8:ILE:N	5	1.2
(1,1054)	1:H:7:ALA:N	1:H:7:ALA:CA	1:H:7:ALA:C	1:H:8:ILE:N	7	1.2
(1,1054)	1:H:7:ALA:N	1:H:7:ALA:CA	1:H:7:ALA:C	1:H:8:ILE:N	9	1.2
(1,1043)	1:H:74:ARG:C	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	1	1.2
(1,1030)	1:H:57:VAL:C	1:H:58:SER:N	1:H:58:SER:CA	1:H:58:SER:C	2	1.2
(1,1028)	1:H:55:LYS:C	1:H:56:LEU:N	1:H:56:LEU:CA	1:H:56:LEU:C	2	1.2
(1,1010)	1:H:37:GLY:C	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	8	1.2
(1,1006)	1:H:29:THR:C	1:H:30:VAL:N	1:H:30:VAL:CA	1:H:30:VAL:C	8	1.2
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	1	1.2
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	8	1.2
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	10	1.2
(1,996)	1:H:19:GLU:C	1:H:20:LEU:N	1:H:20:LEU:CA	1:H:20:LEU:C	1	1.1
(1,988)	1:H:10:ASP:C	1:H:11:ALA:N	1:H:11:ALA:CA	1:H:11:ALA:C	1	1.1
(1,988)	1:H:10:ASP:C	1:H:11:ALA:N	1:H:11:ALA:CA	1:H:11:ALA:C	8	1.1
(1,973)	1:G:75:ASP:N	1:G:75:ASP:CA	1:G:75:ASP:C	1:G:76:MET:N	6	1.1
(1,962)	1:G:64:TYR:N	1:G:64:TYR:CA	1:G:64:TYR:C	1:G:65:GLY:N	6	1.1
(1,949)	1:G:47:MET:N	1:G:47:MET:CA	1:G:47:MET:C	1:G:48:ASP:N	8	1.1
(1,948)	1:G:46:GLN:N	1:G:46:GLN:CA	1:G:46:GLN:C	1:G:47:MET:N	2	1.1
(1,924)	1:G:18:ASP:N	1:G:18:ASP:CA	1:G:18:ASP:C	1:G:19:GLU:N	7	1.1
(1,914)	1:G:7:ALA:N	1:G:7:ALA:CA	1:G:7:ALA:C	1:G:8:ILE:N	2	1.1
(1,914)	1:G:7:ALA:N	1:G:7:ALA:CA	1:G:7:ALA:C	1:G:8:ILE:N	5	1.1
(1,914)	1:G:7:ALA:N	1:G:7:ALA:CA	1:G:7:ALA:C	1:G:8:ILE:N	10	1.1
(1,891)	1:G:58:SER:C	1:G:59:TYR:N	1:G:59:TYR:CA	1:G:59:TYR:C	5	1.1
(1,888)	1:G:55:LYS:C	1:G:56:LEU:N	1:G:56:LEU:CA	1:G:56:LEU:C	2	1.1
(1,878)	1:G:45:LEU:C	1:G:46:GLN:N	1:G:46:GLN:CA	1:G:46:GLN:C	3	1.1
(1,878)	1:G:45:LEU:C	1:G:46:GLN:N	1:G:46:GLN:CA	1:G:46:GLN:C	4	1.1
(1,870)	1:G:37:GLY:C	1:G:38:ARG:N	1:G:38:ARG:CA	1:G:38:ARG:C	8	1.1
(1,866)	1:G:29:THR:C	1:G:30:VAL:N	1:G:30:VAL:CA	1:G:30:VAL:C	8	1.1
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	2	1.1
(1,863)	1:G:26:LYS:C	1:G:27:LEU:N	1:G:27:LEU:CA	1:G:27:LEU:C	9	1.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,856)	1:G:19:GLU:C	1:G:20:LEU:N	1:G:20:LEU:CA	1:G:20:LEU:C	1	1.1
(1,848)	1:G:10:ASP:C	1:G:11:ALA:N	1:G:11:ALA:CA	1:G:11:ALA:C	1	1.1
(1,84)	1:A:18:ASP:N	1:A:18:ASP:CA	1:A:18:ASP:C	1:A:19:GLU:N	6	1.1
(1,833)	1:F:75:ASP:N	1:F:75:ASP:CA	1:F:75:ASP:C	1:F:76:MET:N	6	1.1
(1,822)	1:F:64:TYR:N	1:F:64:TYR:CA	1:F:64:TYR:C	1:F:65:GLY:N	6	1.1
(1,809)	1:F:47:MET:N	1:F:47:MET:CA	1:F:47:MET:C	1:F:48:ASP:N	2	1.1
(1,809)	1:F:47:MET:N	1:F:47:MET:CA	1:F:47:MET:C	1:F:48:ASP:N	4	1.1
(1,809)	1:F:47:MET:N	1:F:47:MET:CA	1:F:47:MET:C	1:F:48:ASP:N	9	1.1
(1,8)	1:A:10:ASP:C	1:A:11:ALA:N	1:A:11:ALA:CA	1:A:11:ALA:C	1	1.1
(1,8)	1:A:10:ASP:C	1:A:11:ALA:N	1:A:11:ALA:CA	1:A:11:ALA:C	8	1.1
(1,784)	1:F:18:ASP:N	1:F:18:ASP:CA	1:F:18:ASP:C	1:F:19:GLU:N	6	1.1
(1,784)	1:F:18:ASP:N	1:F:18:ASP:CA	1:F:18:ASP:C	1:F:19:GLU:N	7	1.1
(1,774)	1:F:7:ALA:N	1:F:7:ALA:CA	1:F:7:ALA:C	1:F:8:ILE:N	2	1.1
(1,774)	1:F:7:ALA:N	1:F:7:ALA:CA	1:F:7:ALA:C	1:F:8:ILE:N	5	1.1
(1,774)	1:F:7:ALA:N	1:F:7:ALA:CA	1:F:7:ALA:C	1:F:8:ILE:N	9	1.1
(1,751)	1:F:58:SER:C	1:F:59:TYR:N	1:F:59:TYR:CA	1:F:59:TYR:C	5	1.1
(1,74)	1:A:7:ALA:N	1:A:7:ALA:CA	1:A:7:ALA:C	1:A:8:ILE:N	2	1.1
(1,74)	1:A:7:ALA:N	1:A:7:ALA:CA	1:A:7:ALA:C	1:A:8:ILE:N	5	1.1
(1,74)	1:A:7:ALA:N	1:A:7:ALA:CA	1:A:7:ALA:C	1:A:8:ILE:N	7	1.1
(1,74)	1:A:7:ALA:N	1:A:7:ALA:CA	1:A:7:ALA:C	1:A:8:ILE:N	9	1.1
(1,738)	1:F:45:LEU:C	1:F:46:GLN:N	1:F:46:GLN:CA	1:F:46:GLN:C	3	1.1
(1,738)	1:F:45:LEU:C	1:F:46:GLN:N	1:F:46:GLN:CA	1:F:46:GLN:C	4	1.1
(1,738)	1:F:45:LEU:C	1:F:46:GLN:N	1:F:46:GLN:CA	1:F:46:GLN:C	5	1.1
(1,730)	1:F:37:GLY:C	1:F:38:ARG:N	1:F:38:ARG:CA	1:F:38:ARG:C	1	1.1
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	2	1.1
(1,723)	1:F:26:LYS:C	1:F:27:LEU:N	1:F:27:LEU:CA	1:F:27:LEU:C	9	1.1
(1,693)	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	1:E:76:MET:N	6	1.1
(1,679)	1:E:57:VAL:N	1:E:57:VAL:CA	1:E:57:VAL:C	1:E:58:SER:N	5	1.1
(1,669)	1:E:47:MET:N	1:E:47:MET:CA	1:E:47:MET:C	1:E:48:ASP:N	2	1.1
(1,669)	1:E:47:MET:N	1:E:47:MET:CA	1:E:47:MET:C	1:E:48:ASP:N	8	1.1
(1,668)	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	1:E:47:MET:N	2	1.1
(1,668)	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	1:E:47:MET:N	9	1.1
(1,644)	1:E:18:ASP:N	1:E:18:ASP:CA	1:E:18:ASP:C	1:E:19:GLU:N	6	1.1
(1,634)	1:E:7:ALA:N	1:E:7:ALA:CA	1:E:7:ALA:C	1:E:8:ILE:N	2	1.1
(1,634)	1:E:7:ALA:N	1:E:7:ALA:CA	1:E:7:ALA:C	1:E:8:ILE:N	5	1.1
(1,634)	1:E:7:ALA:N	1:E:7:ALA:CA	1:E:7:ALA:C	1:E:8:ILE:N	7	1.1
(1,634)	1:E:7:ALA:N	1:E:7:ALA:CA	1:E:7:ALA:C	1:E:8:ILE:N	10	1.1
(1,63)	1:A:74:ARG:C	1:A:75:ASP:N	1:A:75:ASP:CA	1:A:75:ASP:C	1	1.1
(1,623)	1:E:74:ARG:C	1:E:75:ASP:N	1:E:75:ASP:CA	1:E:75:ASP:C	7	1.1
(1,619)	1:E:70:MET:C	1:E:71:THR:N	1:E:71:THR:CA	1:E:71:THR:C	5	1.1
(1,611)	1:E:58:SER:C	1:E:59:TYR:N	1:E:59:TYR:CA	1:E:59:TYR:C	7	1.1
(1,608)	1:E:55:LYS:C	1:E:56:LEU:N	1:E:56:LEU:CA	1:E:56:LEU:C	2	1.1
(1,598)	1:E:45:LEU:C	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	4	1.1
(1,598)	1:E:45:LEU:C	1:E:46:GLN:N	1:E:46:GLN:CA	1:E:46:GLN:C	5	1.1
(1,590)	1:E:37:GLY:C	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	1	1.1
(1,590)	1:E:37:GLY:C	1:E:38:ARG:N	1:E:38:ARG:CA	1:E:38:ARG:C	8	1.1
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	2	1.1
(1,583)	1:E:26:LYS:C	1:E:27:LEU:N	1:E:27:LEU:CA	1:E:27:LEU:C	9	1.1
(1,576)	1:E:19:GLU:C	1:E:20:LEU:N	1:E:20:LEU:CA	1:E:20:LEU:C	1	1.1
(1,568)	1:E:10:ASP:C	1:E:11:ALA:N	1:E:11:ALA:CA	1:E:11:ALA:C	1	1.1
(1,568)	1:E:10:ASP:C	1:E:11:ALA:N	1:E:11:ALA:CA	1:E:11:ALA:C	8	1.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,531)	1:D:49:ALA:N	1:D:49:ALA:CA	1:D:49:ALA:C	1:D:50:ILE:N	4	1.1
(1,529)	1:D:47:MET:N	1:D:47:MET:CA	1:D:47:MET:C	1:D:48:ASP:N	2	1.1
(1,529)	1:D:47:MET:N	1:D:47:MET:CA	1:D:47:MET:C	1:D:48:ASP:N	8	1.1
(1,529)	1:D:47:MET:N	1:D:47:MET:CA	1:D:47:MET:C	1:D:48:ASP:N	9	1.1
(1,528)	1:D:46:GLN:N	1:D:46:GLN:CA	1:D:46:GLN:C	1:D:47:MET:N	2	1.1
(1,51)	1:A:58:SER:C	1:A:59:TYR:N	1:A:59:TYR:CA	1:A:59:TYR:C	5	1.1
(1,509)	1:D:23:PHE:N	1:D:23:PHE:CA	1:D:23:PHE:C	1:D:24:LYS:N	9	1.1
(1,504)	1:D:18:ASP:N	1:D:18:ASP:CA	1:D:18:ASP:C	1:D:19:GLU:N	6	1.1
(1,504)	1:D:18:ASP:N	1:D:18:ASP:CA	1:D:18:ASP:C	1:D:19:GLU:N	7	1.1
(1,494)	1:D:7:ALA:N	1:D:7:ALA:CA	1:D:7:ALA:C	1:D:8:ILE:N	2	1.1
(1,494)	1:D:7:ALA:N	1:D:7:ALA:CA	1:D:7:ALA:C	1:D:8:ILE:N	5	1.1
(1,494)	1:D:7:ALA:N	1:D:7:ALA:CA	1:D:7:ALA:C	1:D:8:ILE:N	9	1.1
(1,494)	1:D:7:ALA:N	1:D:7:ALA:CA	1:D:7:ALA:C	1:D:8:ILE:N	10	1.1
(1,483)	1:D:74:ARG:C	1:D:75:ASP:N	1:D:75:ASP:CA	1:D:75:ASP:C	7	1.1
(1,479)	1:D:70:MET:C	1:D:71:THR:N	1:D:71:THR:CA	1:D:71:THR:C	5	1.1
(1,471)	1:D:58:SER:C	1:D:59:TYR:N	1:D:59:TYR:CA	1:D:59:TYR:C	5	1.1
(1,458)	1:D:45:LEU:C	1:D:46:GLN:N	1:D:46:GLN:CA	1:D:46:GLN:C	3	1.1
(1,458)	1:D:45:LEU:C	1:D:46:GLN:N	1:D:46:GLN:CA	1:D:46:GLN:C	4	1.1
(1,450)	1:D:37:GLY:C	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	1	1.1
(1,450)	1:D:37:GLY:C	1:D:38:ARG:N	1:D:38:ARG:CA	1:D:38:ARG:C	8	1.1
(1,446)	1:D:29:THR:C	1:D:30:VAL:N	1:D:30:VAL:CA	1:D:30:VAL:C	8	1.1
(1,443)	1:D:26:LYS:C	1:D:27:LEU:N	1:D:27:LEU:CA	1:D:27:LEU:C	2	1.1
(1,428)	1:D:10:ASP:C	1:D:11:ALA:N	1:D:11:ALA:CA	1:D:11:ALA:C	8	1.1
(1,428)	1:D:10:ASP:C	1:D:11:ALA:N	1:D:11:ALA:CA	1:D:11:ALA:C	10	1.1
(1,402)	1:C:64:TYR:N	1:C:64:TYR:CA	1:C:64:TYR:C	1:C:65:GLY:N	6	1.1
(1,389)	1:C:47:MET:N	1:C:47:MET:CA	1:C:47:MET:C	1:C:48:ASP:N	2	1.1
(1,388)	1:C:46:GLN:N	1:C:46:GLN:CA	1:C:46:GLN:C	1:C:47:MET:N	9	1.1
(1,38)	1:A:45:LEU:C	1:A:46:GLN:N	1:A:46:GLN:CA	1:A:46:GLN:C	3	1.1
(1,38)	1:A:45:LEU:C	1:A:46:GLN:N	1:A:46:GLN:CA	1:A:46:GLN:C	4	1.1
(1,38)	1:A:45:LEU:C	1:A:46:GLN:N	1:A:46:GLN:CA	1:A:46:GLN:C	9	1.1
(1,364)	1:C:18:ASP:N	1:C:18:ASP:CA	1:C:18:ASP:C	1:C:19:GLU:N	6	1.1
(1,354)	1:C:7:ALA:N	1:C:7:ALA:CA	1:C:7:ALA:C	1:C:8:ILE:N	6	1.1
(1,354)	1:C:7:ALA:N	1:C:7:ALA:CA	1:C:7:ALA:C	1:C:8:ILE:N	10	1.1
(1,343)	1:C:74:ARG:C	1:C:75:ASP:N	1:C:75:ASP:CA	1:C:75:ASP:C	7	1.1
(1,328)	1:C:55:LYS:C	1:C:56:LEU:N	1:C:56:LEU:CA	1:C:56:LEU:C	2	1.1
(1,318)	1:C:45:LEU:C	1:C:46:GLN:N	1:C:46:GLN:CA	1:C:46:GLN:C	3	1.1
(1,318)	1:C:45:LEU:C	1:C:46:GLN:N	1:C:46:GLN:CA	1:C:46:GLN:C	4	1.1
(1,318)	1:C:45:LEU:C	1:C:46:GLN:N	1:C:46:GLN:CA	1:C:46:GLN:C	9	1.1
(1,310)	1:C:37:GLY:C	1:C:38:ARG:N	1:C:38:ARG:CA	1:C:38:ARG:C	8	1.1
(1,306)	1:C:29:THR:C	1:C:30:VAL:N	1:C:30:VAL:CA	1:C:30:VAL:C	8	1.1
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	2	1.1
(1,303)	1:C:26:LYS:C	1:C:27:LEU:N	1:C:27:LEU:CA	1:C:27:LEU:C	9	1.1
(1,30)	1:A:37:GLY:C	1:A:38:ARG:N	1:A:38:ARG:CA	1:A:38:ARG:C	1	1.1
(1,288)	1:C:10:ASP:C	1:C:11:ALA:N	1:C:11:ALA:CA	1:C:11:ALA:C	1	1.1
(1,288)	1:C:10:ASP:C	1:C:11:ALA:N	1:C:11:ALA:CA	1:C:11:ALA:C	8	1.1
(1,288)	1:C:10:ASP:C	1:C:11:ALA:N	1:C:11:ALA:CA	1:C:11:ALA:C	10	1.1
(1,273)	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	1:B:76:MET:N	6	1.1
(1,249)	1:B:47:MET:N	1:B:47:MET:CA	1:B:47:MET:C	1:B:48:ASP:N	2	1.1
(1,248)	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	1:B:47:MET:N	2	1.1
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	2	1.1
(1,23)	1:A:26:LYS:C	1:A:27:LEU:N	1:A:27:LEU:CA	1:A:27:LEU:C	9	1.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,224)	1:B:18:ASP:N	1:B:18:ASP:CA	1:B:18:ASP:C	1:B:19:GLU:N	6	1.1
(1,216)	1:B:9:LEU:N	1:B:9:LEU:CA	1:B:9:LEU:C	1:B:10:ASP:N	9	1.1
(1,214)	1:B:7:ALA:N	1:B:7:ALA:CA	1:B:7:ALA:C	1:B:8:ILE:N	2	1.1
(1,214)	1:B:7:ALA:N	1:B:7:ALA:CA	1:B:7:ALA:C	1:B:8:ILE:N	5	1.1
(1,2093)	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	1:O:76:MET:N	6	1.1
(1,2069)	1:O:47:MET:N	1:O:47:MET:CA	1:O:47:MET:C	1:O:48:ASP:N	3	1.1
(1,2069)	1:O:47:MET:N	1:O:47:MET:CA	1:O:47:MET:C	1:O:48:ASP:N	8	1.1
(1,2049)	1:O:23:PHE:N	1:O:23:PHE:CA	1:O:23:PHE:C	1:O:24:LYS:N	7	1.1
(1,2044)	1:O:18:ASP:N	1:O:18:ASP:CA	1:O:18:ASP:C	1:O:19:GLU:N	6	1.1
(1,2044)	1:O:18:ASP:N	1:O:18:ASP:CA	1:O:18:ASP:C	1:O:19:GLU:N	7	1.1
(1,2034)	1:O:7:ALA:N	1:O:7:ALA:CA	1:O:7:ALA:C	1:O:8:ILE:N	2	1.1
(1,2034)	1:O:7:ALA:N	1:O:7:ALA:CA	1:O:7:ALA:C	1:O:8:ILE:N	7	1.1
(1,2034)	1:O:7:ALA:N	1:O:7:ALA:CA	1:O:7:ALA:C	1:O:8:ILE:N	9	1.1
(1,2034)	1:O:7:ALA:N	1:O:7:ALA:CA	1:O:7:ALA:C	1:O:8:ILE:N	10	1.1
(1,203)	1:B:74:ARG:C	1:B:75:ASP:N	1:B:75:ASP:CA	1:B:75:ASP:C	7	1.1
(1,2023)	1:O:74:ARG:C	1:O:75:ASP:N	1:O:75:ASP:CA	1:O:75:ASP:C	7	1.1
(1,2019)	1:O:70:MET:C	1:O:71:THR:N	1:O:71:THR:CA	1:O:71:THR:C	1	1.1
(1,2019)	1:O:70:MET:C	1:O:71:THR:N	1:O:71:THR:CA	1:O:71:THR:C	3	1.1
(1,2019)	1:O:70:MET:C	1:O:71:THR:N	1:O:71:THR:CA	1:O:71:THR:C	5	1.1
(1,2011)	1:O:58:SER:C	1:O:59:TYR:N	1:O:59:TYR:CA	1:O:59:TYR:C	5	1.1
(1,1998)	1:O:45:LEU:C	1:O:46:GLN:N	1:O:46:GLN:CA	1:O:46:GLN:C	3	1.1
(1,1998)	1:O:45:LEU:C	1:O:46:GLN:N	1:O:46:GLN:CA	1:O:46:GLN:C	9	1.1
(1,199)	1:B:70:MET:C	1:B:71:THR:N	1:B:71:THR:CA	1:B:71:THR:C	3	1.1
(1,1986)	1:O:29:THR:C	1:O:30:VAL:N	1:O:30:VAL:CA	1:O:30:VAL:C	8	1.1
(1,1983)	1:O:26:LYS:C	1:O:27:LEU:N	1:O:27:LEU:CA	1:O:27:LEU:C	2	1.1
(1,1976)	1:O:19:GLU:C	1:O:20:LEU:N	1:O:20:LEU:CA	1:O:20:LEU:C	4	1.1
(1,1975)	1:O:18:ASP:C	1:O:19:GLU:N	1:O:19:GLU:CA	1:O:19:GLU:C	10	1.1
(1,1968)	1:O:10:ASP:C	1:O:11:ALA:N	1:O:11:ALA:CA	1:O:11:ALA:C	10	1.1
(1,1953)	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	1:N:76:MET:N	6	1.1
(1,1929)	1:N:47:MET:N	1:N:47:MET:CA	1:N:47:MET:C	1:N:48:ASP:N	8	1.1
(1,191)	1:B:58:SER:C	1:B:59:TYR:N	1:B:59:TYR:CA	1:B:59:TYR:C	5	1.1
(1,1904)	1:N:18:ASP:N	1:N:18:ASP:CA	1:N:18:ASP:C	1:N:19:GLU:N	6	1.1
(1,1896)	1:N:9:LEU:N	1:N:9:LEU:CA	1:N:9:LEU:C	1:N:10:ASP:N	9	1.1
(1,1894)	1:N:7:ALA:N	1:N:7:ALA:CA	1:N:7:ALA:C	1:N:8:ILE:N	6	1.1
(1,1894)	1:N:7:ALA:N	1:N:7:ALA:CA	1:N:7:ALA:C	1:N:8:ILE:N	10	1.1
(1,1883)	1:N:74:ARG:C	1:N:75:ASP:N	1:N:75:ASP:CA	1:N:75:ASP:C	7	1.1
(1,188)	1:B:55:LYS:C	1:B:56:LEU:N	1:B:56:LEU:CA	1:B:56:LEU:C	2	1.1
(1,1879)	1:N:70:MET:C	1:N:71:THR:N	1:N:71:THR:CA	1:N:71:THR:C	3	1.1
(1,1879)	1:N:70:MET:C	1:N:71:THR:N	1:N:71:THR:CA	1:N:71:THR:C	5	1.1
(1,1879)	1:N:70:MET:C	1:N:71:THR:N	1:N:71:THR:CA	1:N:71:THR:C	7	1.1
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	4	1.1
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	5	1.1
(1,1858)	1:N:45:LEU:C	1:N:46:GLN:N	1:N:46:GLN:CA	1:N:46:GLN:C	7	1.1
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	2	1.1
(1,1843)	1:N:26:LYS:C	1:N:27:LEU:N	1:N:27:LEU:CA	1:N:27:LEU:C	9	1.1
(1,1836)	1:N:19:GLU:C	1:N:20:LEU:N	1:N:20:LEU:CA	1:N:20:LEU:C	1	1.1
(1,1828)	1:N:10:ASP:C	1:N:11:ALA:N	1:N:11:ALA:CA	1:N:11:ALA:C	1	1.1
(1,1828)	1:N:10:ASP:C	1:N:11:ALA:N	1:N:11:ALA:CA	1:N:11:ALA:C	10	1.1
(1,1813)	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	1:M:76:MET:N	6	1.1
(1,1789)	1:M:47:MET:N	1:M:47:MET:CA	1:M:47:MET:C	1:M:48:ASP:N	2	1.1
(1,1788)	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	1:M:47:MET:N	2	1.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1788)	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	1:M:47:MET:N	9	1.1
(1,178)	1:B:45:LEU:C	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	4	1.1
(1,178)	1:B:45:LEU:C	1:B:46:GLN:N	1:B:46:GLN:CA	1:B:46:GLN:C	5	1.1
(1,1769)	1:M:23:PHE:N	1:M:23:PHE:CA	1:M:23:PHE:C	1:M:24:LYS:N	9	1.1
(1,1764)	1:M:18:ASP:N	1:M:18:ASP:CA	1:M:18:ASP:C	1:M:19:GLU:N	4	1.1
(1,1764)	1:M:18:ASP:N	1:M:18:ASP:CA	1:M:18:ASP:C	1:M:19:GLU:N	6	1.1
(1,1764)	1:M:18:ASP:N	1:M:18:ASP:CA	1:M:18:ASP:C	1:M:19:GLU:N	7	1.1
(1,1756)	1:M:9:LEU:N	1:M:9:LEU:CA	1:M:9:LEU:C	1:M:10:ASP:N	9	1.1
(1,1754)	1:M:7:ALA:N	1:M:7:ALA:CA	1:M:7:ALA:C	1:M:8:ILE:N	5	1.1
(1,1754)	1:M:7:ALA:N	1:M:7:ALA:CA	1:M:7:ALA:C	1:M:8:ILE:N	9	1.1
(1,1743)	1:M:74:ARG:C	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	1	1.1
(1,1743)	1:M:74:ARG:C	1:M:75:ASP:N	1:M:75:ASP:CA	1:M:75:ASP:C	7	1.1
(1,1739)	1:M:70:MET:C	1:M:71:THR:N	1:M:71:THR:CA	1:M:71:THR:C	1	1.1
(1,1739)	1:M:70:MET:C	1:M:71:THR:N	1:M:71:THR:CA	1:M:71:THR:C	5	1.1
(1,1718)	1:M:45:LEU:C	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	4	1.1
(1,1718)	1:M:45:LEU:C	1:M:46:GLN:N	1:M:46:GLN:CA	1:M:46:GLN:C	5	1.1
(1,1710)	1:M:37:GLY:C	1:M:38:ARG:N	1:M:38:ARG:CA	1:M:38:ARG:C	8	1.1
(1,1703)	1:M:26:LYS:C	1:M:27:LEU:N	1:M:27:LEU:CA	1:M:27:LEU:C	2	1.1
(1,1703)	1:M:26:LYS:C	1:M:27:LEU:N	1:M:27:LEU:CA	1:M:27:LEU:C	10	1.1
(1,1688)	1:M:10:ASP:C	1:M:11:ALA:N	1:M:11:ALA:CA	1:M:11:ALA:C	1	1.1
(1,1688)	1:M:10:ASP:C	1:M:11:ALA:N	1:M:11:ALA:CA	1:M:11:ALA:C	8	1.1
(1,1688)	1:M:10:ASP:C	1:M:11:ALA:N	1:M:11:ALA:CA	1:M:11:ALA:C	10	1.1
(1,1673)	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	1:L:76:MET:N	6	1.1
(1,1651)	1:L:49:ALA:N	1:L:49:ALA:CA	1:L:49:ALA:C	1:L:50:ILE:N	4	1.1
(1,1649)	1:L:47:MET:N	1:L:47:MET:CA	1:L:47:MET:C	1:L:48:ASP:N	2	1.1
(1,1649)	1:L:47:MET:N	1:L:47:MET:CA	1:L:47:MET:C	1:L:48:ASP:N	3	1.1
(1,1649)	1:L:47:MET:N	1:L:47:MET:CA	1:L:47:MET:C	1:L:48:ASP:N	9	1.1
(1,1648)	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	1:L:47:MET:N	2	1.1
(1,1648)	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	1:L:47:MET:N	9	1.1
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	2	1.1
(1,163)	1:B:26:LYS:C	1:B:27:LEU:N	1:B:27:LEU:CA	1:B:27:LEU:C	9	1.1
(1,1624)	1:L:18:ASP:N	1:L:18:ASP:CA	1:L:18:ASP:C	1:L:19:GLU:N	6	1.1
(1,1624)	1:L:18:ASP:N	1:L:18:ASP:CA	1:L:18:ASP:C	1:L:19:GLU:N	7	1.1
(1,1614)	1:L:7:ALA:N	1:L:7:ALA:CA	1:L:7:ALA:C	1:L:8:ILE:N	2	1.1
(1,1614)	1:L:7:ALA:N	1:L:7:ALA:CA	1:L:7:ALA:C	1:L:8:ILE:N	5	1.1
(1,1614)	1:L:7:ALA:N	1:L:7:ALA:CA	1:L:7:ALA:C	1:L:8:ILE:N	7	1.1
(1,1603)	1:L:74:ARG:C	1:L:75:ASP:N	1:L:75:ASP:CA	1:L:75:ASP:C	7	1.1
(1,1599)	1:L:70:MET:C	1:L:71:THR:N	1:L:71:THR:CA	1:L:71:THR:C	1	1.1
(1,1599)	1:L:70:MET:C	1:L:71:THR:N	1:L:71:THR:CA	1:L:71:THR:C	3	1.1
(1,1599)	1:L:70:MET:C	1:L:71:THR:N	1:L:71:THR:CA	1:L:71:THR:C	5	1.1
(1,1599)	1:L:70:MET:C	1:L:71:THR:N	1:L:71:THR:CA	1:L:71:THR:C	7	1.1
(1,1591)	1:L:58:SER:C	1:L:59:TYR:N	1:L:59:TYR:CA	1:L:59:TYR:C	5	1.1
(1,1578)	1:L:45:LEU:C	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	3	1.1
(1,1578)	1:L:45:LEU:C	1:L:46:GLN:N	1:L:46:GLN:CA	1:L:46:GLN:C	4	1.1
(1,1570)	1:L:37:GLY:C	1:L:38:ARG:N	1:L:38:ARG:CA	1:L:38:ARG:C	1	1.1
(1,1566)	1:L:29:THR:C	1:L:30:VAL:N	1:L:30:VAL:CA	1:L:30:VAL:C	8	1.1
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	2	1.1
(1,1563)	1:L:26:LYS:C	1:L:27:LEU:N	1:L:27:LEU:CA	1:L:27:LEU:C	9	1.1
(1,156)	1:B:19:GLU:C	1:B:20:LEU:N	1:B:20:LEU:CA	1:B:20:LEU:C	1	1.1
(1,1555)	1:L:18:ASP:C	1:L:19:GLU:N	1:L:19:GLU:CA	1:L:19:GLU:C	10	1.1
(1,155)	1:B:18:ASP:C	1:B:19:GLU:N	1:B:19:GLU:CA	1:B:19:GLU:C	10	1.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1509)	1:K:47:MET:N	1:K:47:MET:CA	1:K:47:MET:C	1:K:48:ASP:N	2	1.1
(1,1508)	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	1:K:47:MET:N	9	1.1
(1,15)	1:A:18:ASP:C	1:A:19:GLU:N	1:A:19:GLU:CA	1:A:19:GLU:C	10	1.1
(1,1489)	1:K:23:PHE:N	1:K:23:PHE:CA	1:K:23:PHE:C	1:K:24:LYS:N	9	1.1
(1,1484)	1:K:18:ASP:N	1:K:18:ASP:CA	1:K:18:ASP:C	1:K:19:GLU:N	6	1.1
(1,1484)	1:K:18:ASP:N	1:K:18:ASP:CA	1:K:18:ASP:C	1:K:19:GLU:N	7	1.1
(1,148)	1:B:10:ASP:C	1:B:11:ALA:N	1:B:11:ALA:CA	1:B:11:ALA:C	1	1.1
(1,148)	1:B:10:ASP:C	1:B:11:ALA:N	1:B:11:ALA:CA	1:B:11:ALA:C	8	1.1
(1,148)	1:B:10:ASP:C	1:B:11:ALA:N	1:B:11:ALA:CA	1:B:11:ALA:C	10	1.1
(1,1474)	1:K:7:ALA:N	1:K:7:ALA:CA	1:K:7:ALA:C	1:K:8:ILE:N	6	1.1
(1,1463)	1:K:74:ARG:C	1:K:75:ASP:N	1:K:75:ASP:CA	1:K:75:ASP:C	7	1.1
(1,1451)	1:K:58:SER:C	1:K:59:TYR:N	1:K:59:TYR:CA	1:K:59:TYR:C	5	1.1
(1,1438)	1:K:45:LEU:C	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	5	1.1
(1,1438)	1:K:45:LEU:C	1:K:46:GLN:N	1:K:46:GLN:CA	1:K:46:GLN:C	9	1.1
(1,1430)	1:K:37:GLY:C	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	1	1.1
(1,1430)	1:K:37:GLY:C	1:K:38:ARG:N	1:K:38:ARG:CA	1:K:38:ARG:C	8	1.1
(1,1426)	1:K:29:THR:C	1:K:30:VAL:N	1:K:30:VAL:CA	1:K:30:VAL:C	8	1.1
(1,1423)	1:K:26:LYS:C	1:K:27:LEU:N	1:K:27:LEU:CA	1:K:27:LEU:C	1	1.1
(1,1423)	1:K:26:LYS:C	1:K:27:LEU:N	1:K:27:LEU:CA	1:K:27:LEU:C	10	1.1
(1,1408)	1:K:10:ASP:C	1:K:11:ALA:N	1:K:11:ALA:CA	1:K:11:ALA:C	1	1.1
(1,1393)	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	1:J:76:MET:N	6	1.1
(1,1369)	1:J:47:MET:N	1:J:47:MET:CA	1:J:47:MET:C	1:J:48:ASP:N	2	1.1
(1,1369)	1:J:47:MET:N	1:J:47:MET:CA	1:J:47:MET:C	1:J:48:ASP:N	3	1.1
(1,1368)	1:J:46:GLN:N	1:J:46:GLN:CA	1:J:46:GLN:C	1:J:47:MET:N	2	1.1
(1,1349)	1:J:23:PHE:N	1:J:23:PHE:CA	1:J:23:PHE:C	1:J:24:LYS:N	9	1.1
(1,1344)	1:J:18:ASP:N	1:J:18:ASP:CA	1:J:18:ASP:C	1:J:19:GLU:N	6	1.1
(1,1344)	1:J:18:ASP:N	1:J:18:ASP:CA	1:J:18:ASP:C	1:J:19:GLU:N	7	1.1
(1,1336)	1:J:9:LEU:N	1:J:9:LEU:CA	1:J:9:LEU:C	1:J:10:ASP:N	9	1.1
(1,1334)	1:J:7:ALA:N	1:J:7:ALA:CA	1:J:7:ALA:C	1:J:8:ILE:N	2	1.1
(1,1334)	1:J:7:ALA:N	1:J:7:ALA:CA	1:J:7:ALA:C	1:J:8:ILE:N	10	1.1
(1,133)	1:A:75:ASP:N	1:A:75:ASP:CA	1:A:75:ASP:C	1:A:76:MET:N	6	1.1
(1,1323)	1:J:74:ARG:C	1:J:75:ASP:N	1:J:75:ASP:CA	1:J:75:ASP:C	7	1.1
(1,1319)	1:J:70:MET:C	1:J:71:THR:N	1:J:71:THR:CA	1:J:71:THR:C	5	1.1
(1,1311)	1:J:58:SER:C	1:J:59:TYR:N	1:J:59:TYR:CA	1:J:59:TYR:C	5	1.1
(1,1308)	1:J:55:LYS:C	1:J:56:LEU:N	1:J:56:LEU:CA	1:J:56:LEU:C	2	1.1
(1,1298)	1:J:45:LEU:C	1:J:46:GLN:N	1:J:46:GLN:CA	1:J:46:GLN:C	3	1.1
(1,1298)	1:J:45:LEU:C	1:J:46:GLN:N	1:J:46:GLN:CA	1:J:46:GLN:C	4	1.1
(1,1298)	1:J:45:LEU:C	1:J:46:GLN:N	1:J:46:GLN:CA	1:J:46:GLN:C	9	1.1
(1,1286)	1:J:29:THR:C	1:J:30:VAL:N	1:J:30:VAL:CA	1:J:30:VAL:C	8	1.1
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	2	1.1
(1,1283)	1:J:26:LYS:C	1:J:27:LEU:N	1:J:27:LEU:CA	1:J:27:LEU:C	9	1.1
(1,1276)	1:J:19:GLU:C	1:J:20:LEU:N	1:J:20:LEU:CA	1:J:20:LEU:C	1	1.1
(1,1275)	1:J:18:ASP:C	1:J:19:GLU:N	1:J:19:GLU:CA	1:J:19:GLU:C	10	1.1
(1,1268)	1:J:10:ASP:C	1:J:11:ALA:N	1:J:11:ALA:CA	1:J:11:ALA:C	1	1.1
(1,1267)	1:J:9:LEU:C	1:J:10:ASP:N	1:J:10:ASP:CA	1:J:10:ASP:C	1	1.1
(1,1253)	1:I:75:ASP:N	1:I:75:ASP:CA	1:I:75:ASP:C	1:I:76:MET:N	6	1.1
(1,1229)	1:I:47:MET:N	1:I:47:MET:CA	1:I:47:MET:C	1:I:48:ASP:N	2	1.1
(1,1229)	1:I:47:MET:N	1:I:47:MET:CA	1:I:47:MET:C	1:I:48:ASP:N	8	1.1
(1,1229)	1:I:47:MET:N	1:I:47:MET:CA	1:I:47:MET:C	1:I:48:ASP:N	9	1.1
(1,1204)	1:I:18:ASP:N	1:I:18:ASP:CA	1:I:18:ASP:C	1:I:19:GLU:N	6	1.1
(1,1183)	1:I:74:ARG:C	1:I:75:ASP:N	1:I:75:ASP:CA	1:I:75:ASP:C	1	1.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1171)	1:I:58:SER:C	1:I:59:TYR:N	1:I:59:TYR:CA	1:I:59:TYR:C	5	1.1
(1,1168)	1:I:55:LYS:C	1:I:56:LEU:N	1:I:56:LEU:CA	1:I:56:LEU:C	2	1.1
(1,1158)	1:I:45:LEU:C	1:I:46:GLN:N	1:I:46:GLN:CA	1:I:46:GLN:C	3	1.1
(1,1158)	1:I:45:LEU:C	1:I:46:GLN:N	1:I:46:GLN:CA	1:I:46:GLN:C	4	1.1
(1,1158)	1:I:45:LEU:C	1:I:46:GLN:N	1:I:46:GLN:CA	1:I:46:GLN:C	9	1.1
(1,1150)	1:I:37:GLY:C	1:I:38:ARG:N	1:I:38:ARG:CA	1:I:38:ARG:C	1	1.1
(1,1146)	1:I:29:THR:C	1:I:30:VAL:N	1:I:30:VAL:CA	1:I:30:VAL:C	8	1.1
(1,1136)	1:I:19:GLU:C	1:I:20:LEU:N	1:I:20:LEU:CA	1:I:20:LEU:C	1	1.1
(1,1135)	1:I:18:ASP:C	1:I:19:GLU:N	1:I:19:GLU:CA	1:I:19:GLU:C	10	1.1
(1,1091)	1:H:49:ALA:N	1:H:49:ALA:CA	1:H:49:ALA:C	1:H:50:ILE:N	4	1.1
(1,109)	1:A:47:MET:N	1:A:47:MET:CA	1:A:47:MET:C	1:A:48:ASP:N	8	1.1
(1,1089)	1:H:47:MET:N	1:H:47:MET:CA	1:H:47:MET:C	1:H:48:ASP:N	2	1.1
(1,1089)	1:H:47:MET:N	1:H:47:MET:CA	1:H:47:MET:C	1:H:48:ASP:N	8	1.1
(1,1088)	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	1:H:47:MET:N	2	1.1
(1,108)	1:A:46:GLN:N	1:A:46:GLN:CA	1:A:46:GLN:C	1:A:47:MET:N	2	1.1
(1,1064)	1:H:18:ASP:N	1:H:18:ASP:CA	1:H:18:ASP:C	1:H:19:GLU:N	6	1.1
(1,1064)	1:H:18:ASP:N	1:H:18:ASP:CA	1:H:18:ASP:C	1:H:19:GLU:N	7	1.1
(1,1043)	1:H:74:ARG:C	1:H:75:ASP:N	1:H:75:ASP:CA	1:H:75:ASP:C	7	1.1
(1,1031)	1:H:58:SER:C	1:H:59:TYR:N	1:H:59:TYR:CA	1:H:59:TYR:C	5	1.1
(1,1018)	1:H:45:LEU:C	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	3	1.1
(1,1018)	1:H:45:LEU:C	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	4	1.1
(1,1018)	1:H:45:LEU:C	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	5	1.1
(1,1018)	1:H:45:LEU:C	1:H:46:GLN:N	1:H:46:GLN:CA	1:H:46:GLN:C	9	1.1
(1,1010)	1:H:37:GLY:C	1:H:38:ARG:N	1:H:38:ARG:CA	1:H:38:ARG:C	1	1.1
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	2	1.1
(1,1003)	1:H:26:LYS:C	1:H:27:LEU:N	1:H:27:LEU:CA	1:H:27:LEU:C	9	1.1