Full wwPDB NMR Structure Validation Report (i)

Jun 5, 2023 – 05:08 PM JST

PDB ID	:	7WKC
BMRB ID	:	36468
Title	:	A prototype protein nanocage minimized from carboxysomes with gated oxygen permeability
Authors	:	Tan, H.; Yang, J.
Deposited on	:	2022-01-08

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/NMRValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

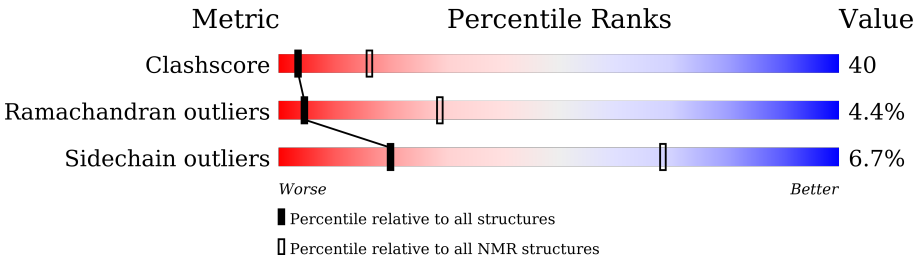
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.33

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
SOLID-STATE NMR

The overall completeness of chemical shifts assignment is 6%.

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	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	A	104	49% 36% · 12%
1	B	104	49% 36% · 12%
1	C	104	48% 37% · 12%
1	D	104	50% 35% · 12%
1	E	104	50% 35% · 12%

2 Ensemble composition and analysis (i)

This entry contains 5 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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:1-A:92, B:1-B:92, C:1-C:92, D:1-D:92, E:1-E:92 (460)	0.17	4

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 1 single-model cluster was found.

Cluster number	Models
1	2, 4
2	3, 5
Single-model clusters	1

3 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 6960 atoms, of which 3450 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Carboxysome shell vertex protein CcmL.

Mol	Chain	Residues	Atoms						Trace
1	A	92	Total	C	H	N	O	S	0
			1392	439	690	125	136	2	
1	B	92	Total	C	H	N	O	S	0
			1392	439	690	125	136	2	
1	C	92	Total	C	H	N	O	S	0
			1392	439	690	125	136	2	
1	D	92	Total	C	H	N	O	S	0
			1392	439	690	125	136	2	
1	E	92	Total	C	H	N	O	S	0
			1392	439	690	125	136	2	

There are 25 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	34	HIS	-	insertion	UNP Q8DKB4
A	35	HIS	-	insertion	UNP Q8DKB4
A	36	HIS	-	insertion	UNP Q8DKB4
A	37	HIS	-	insertion	UNP Q8DKB4
A	38	HIS	-	insertion	UNP Q8DKB4
B	34	HIS	-	insertion	UNP Q8DKB4
B	35	HIS	-	insertion	UNP Q8DKB4
B	36	HIS	-	insertion	UNP Q8DKB4
B	37	HIS	-	insertion	UNP Q8DKB4
B	38	HIS	-	insertion	UNP Q8DKB4
C	34	HIS	-	insertion	UNP Q8DKB4
C	35	HIS	-	insertion	UNP Q8DKB4
C	36	HIS	-	insertion	UNP Q8DKB4
C	37	HIS	-	insertion	UNP Q8DKB4
C	38	HIS	-	insertion	UNP Q8DKB4
D	34	HIS	-	insertion	UNP Q8DKB4
D	35	HIS	-	insertion	UNP Q8DKB4
D	36	HIS	-	insertion	UNP Q8DKB4
D	37	HIS	-	insertion	UNP Q8DKB4
D	38	HIS	-	insertion	UNP Q8DKB4
E	34	HIS	-	insertion	UNP Q8DKB4
E	35	HIS	-	insertion	UNP Q8DKB4
E	36	HIS	-	insertion	UNP Q8DKB4

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Chain	Residue	Modelled	Actual	Comment	Reference
E	37	HIS	-	insertion	UNP Q8DKB4
E	38	HIS	-	insertion	UNP Q8DKB4

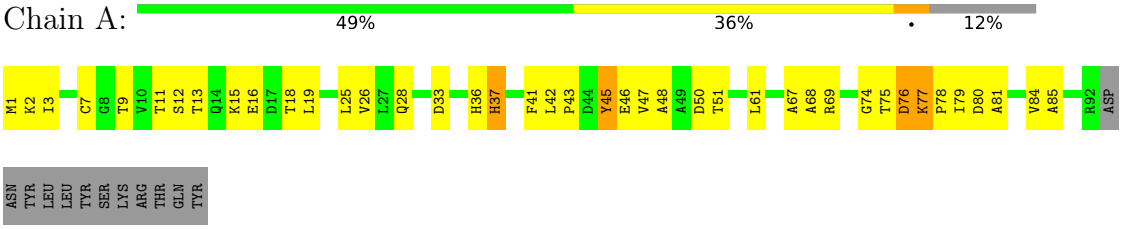
4 Residue-property plots

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.

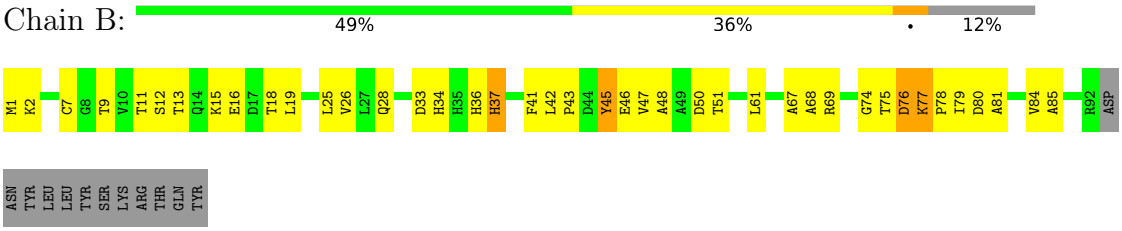
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain A:



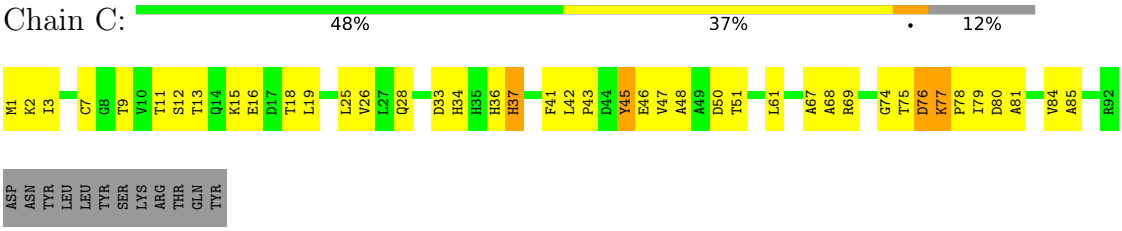
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain B:



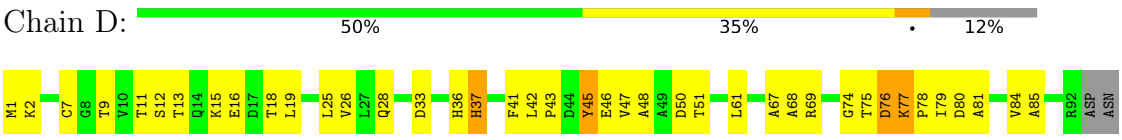
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain C:



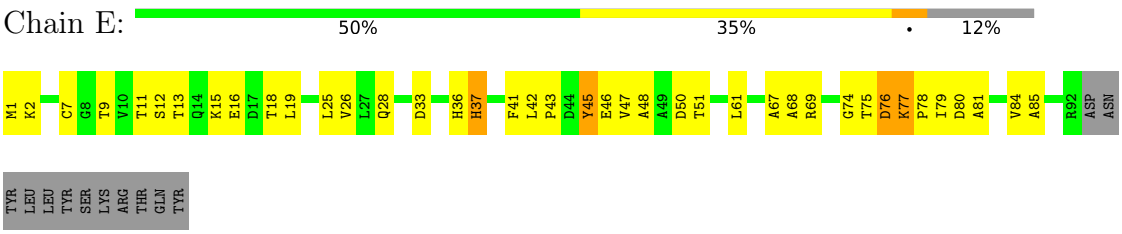
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain D:



• Molecule 1: Carboxysome shell vertex protein CcmL

Chain E:



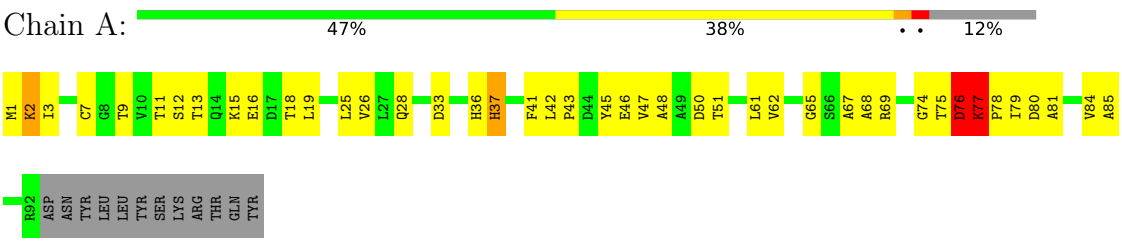
4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

• Molecule 1: Carboxysome shell vertex protein CcmL

Chain A:

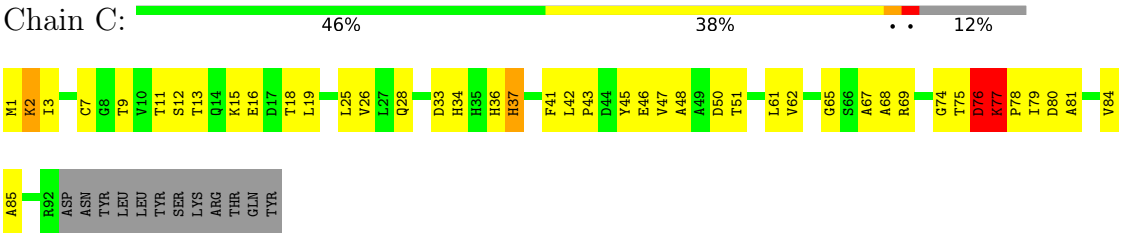


• Molecule 1: Carboxysome shell vertex protein CcmL

Chain B:

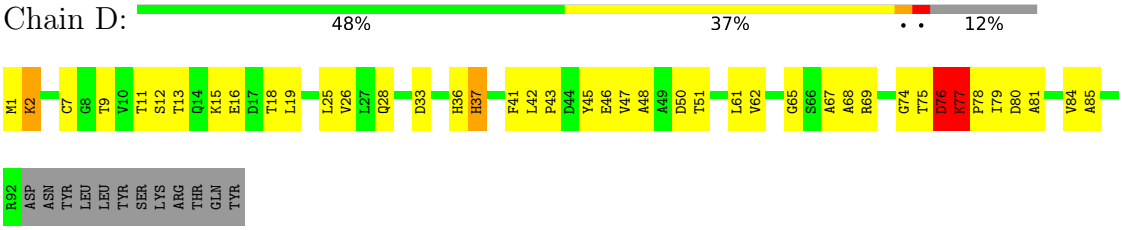
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain C:



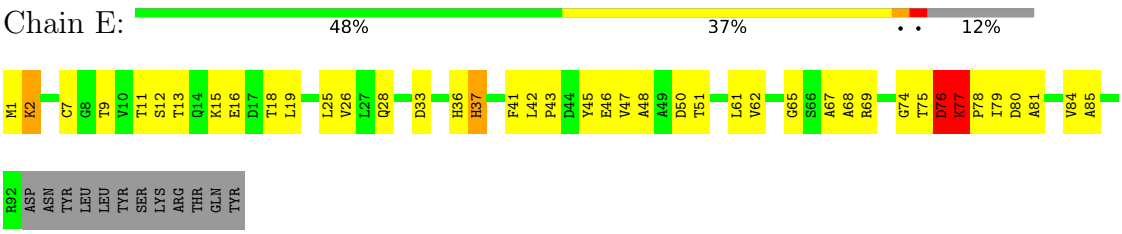
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain D:



• Molecule 1: Carboxysome shell vertex protein CcmL

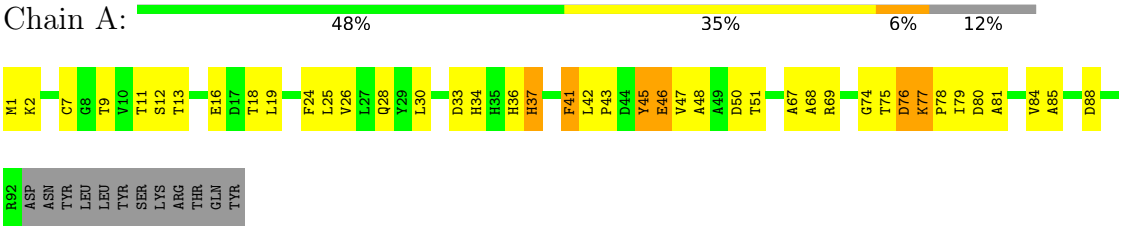
Chain E:



4.2.2 Score per residue for model 2

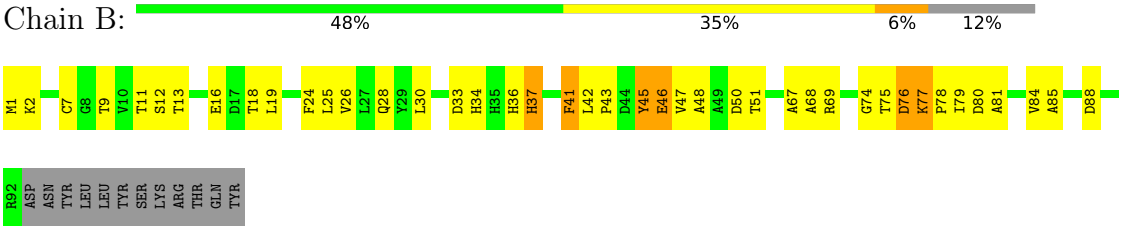
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain A:



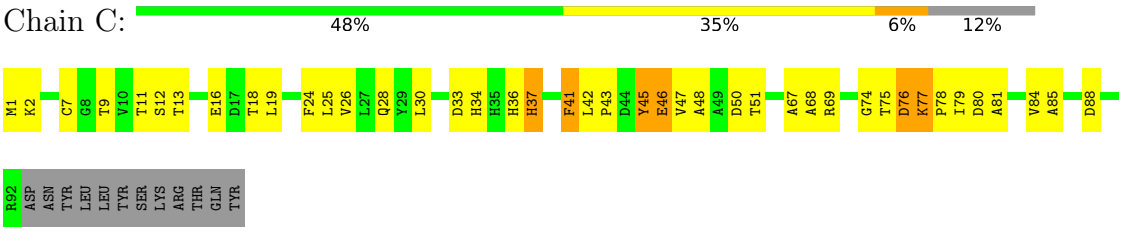
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain B:



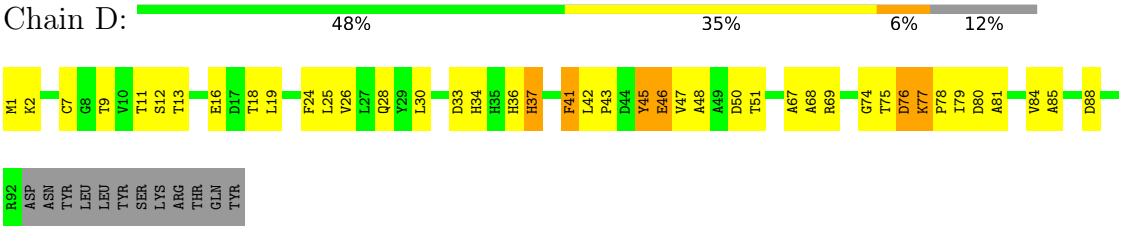
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain C:



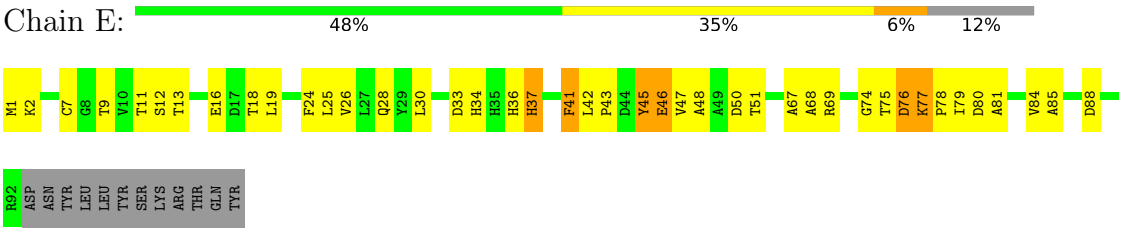
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain D:



• Molecule 1: Carboxysome shell vertex protein CcmL

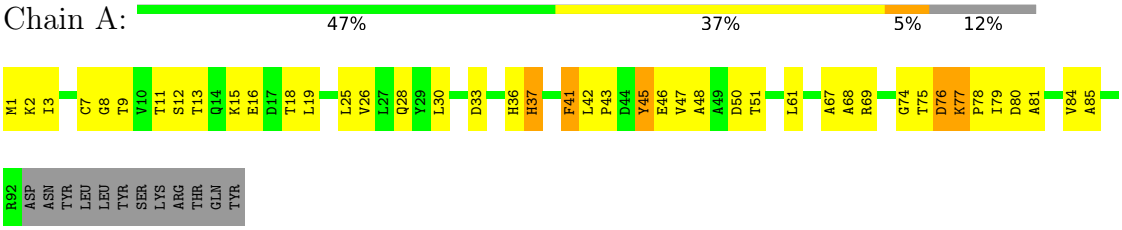
Chain E:



4.2.3 Score per residue for model 3

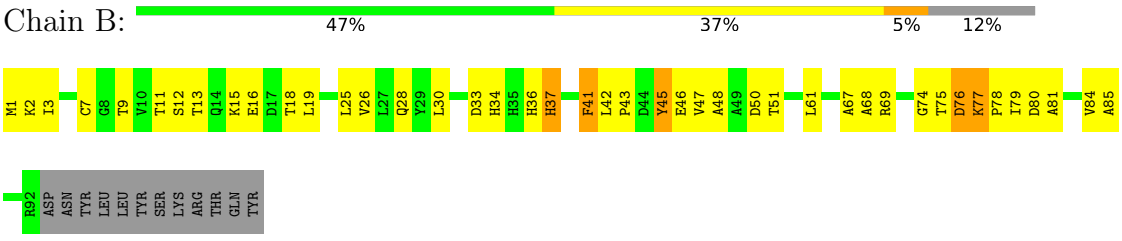
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain A:



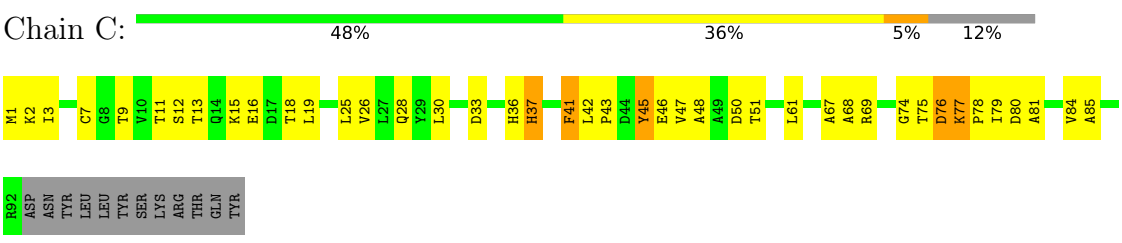
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain B:



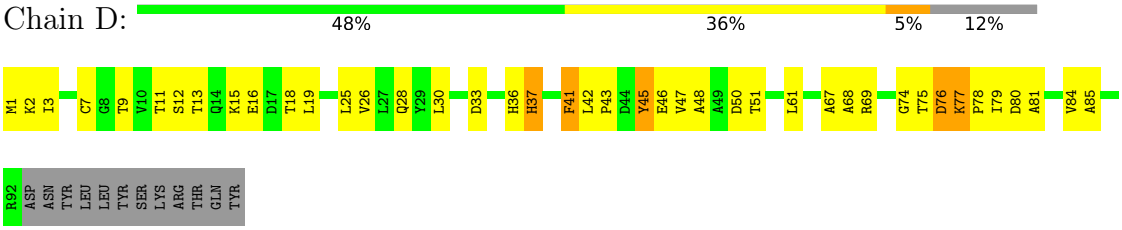
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain C:



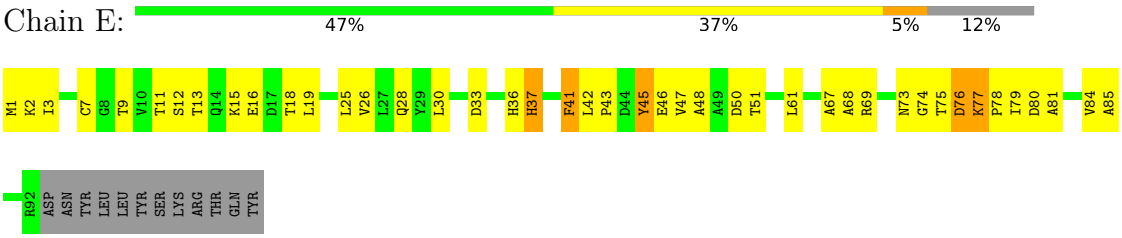
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain D:



• Molecule 1: Carboxysome shell vertex protein CcmL

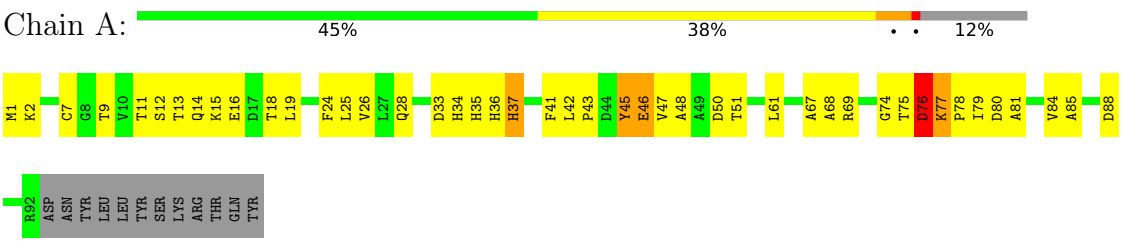
Chain E:



4.2.4 Score per residue for model 4 (medoid)

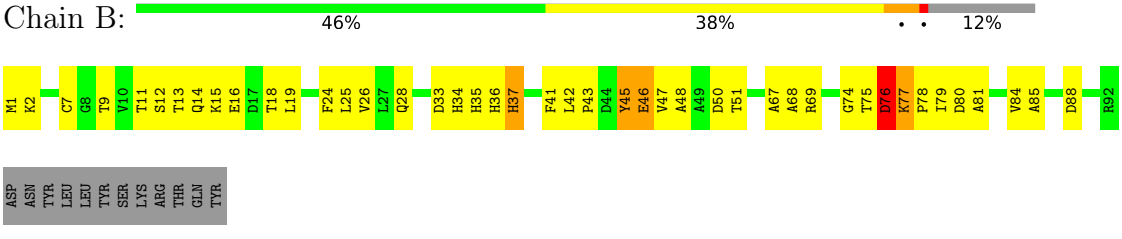
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain A:



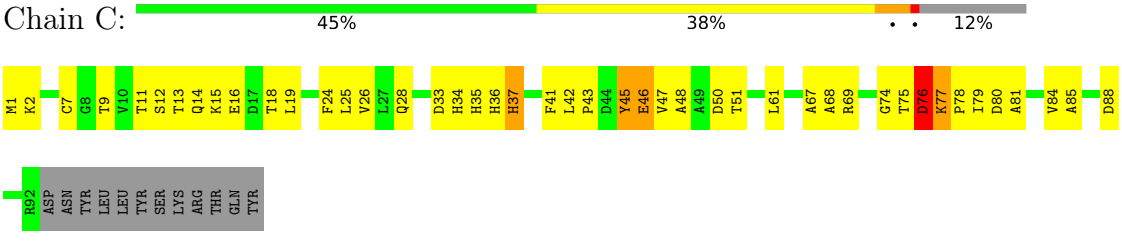
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain B:



• Molecule 1: Carboxysome shell vertex protein CcmL

Chain C:



• Molecule 1: Carboxysome shell vertex protein CcmL

Chain D:

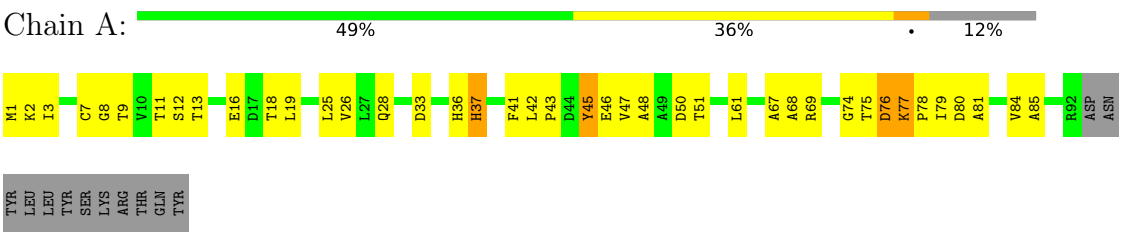
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain E:

4.2.5 Score per residue for model 5

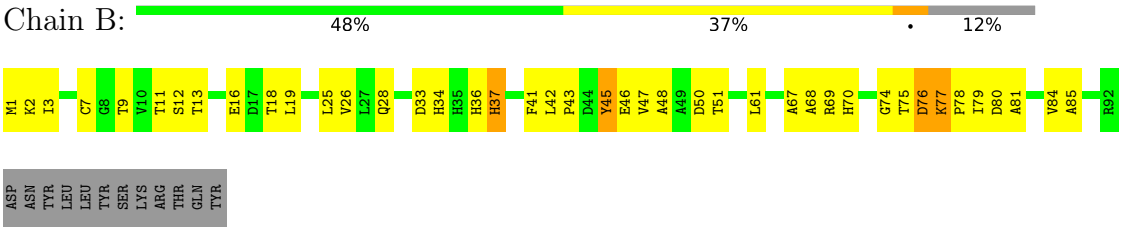
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain A:



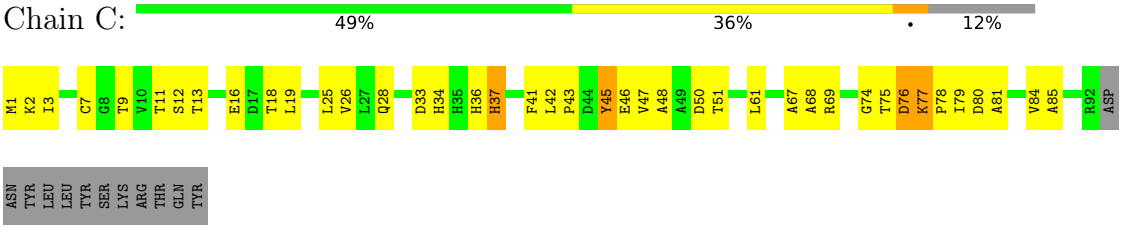
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain B:



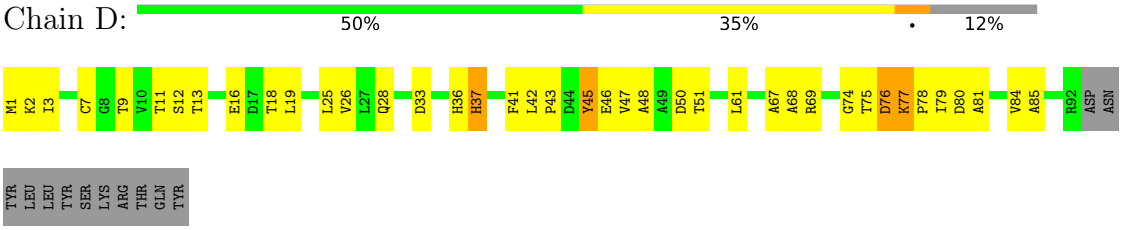
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain C:



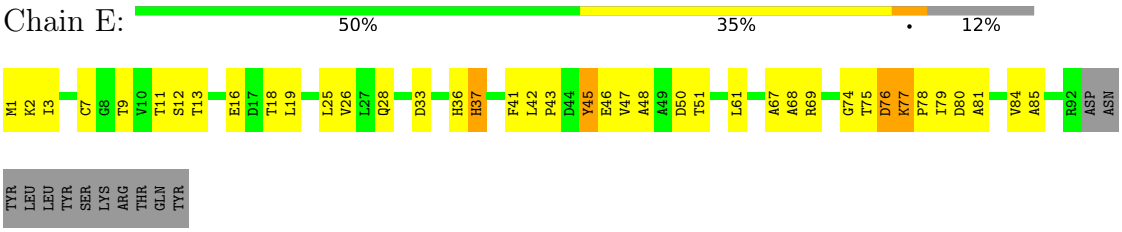
• Molecule 1: Carboxysome shell vertex protein CcmL

Chain D:



• Molecule 1: Carboxysome shell vertex protein CcmL

Chain E:



5 Refinement protocol and experimental data overview

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

Of the 500 calculated structures, 5 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
X-PLOR	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	349
Number of shifts mapped to atoms	349
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	6%

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	702	690	690	83±8
1	B	702	690	690	81±5
1	C	702	690	690	84±8
1	D	702	690	690	81±5
1	E	702	690	690	81±8
All	All	17550	17250	17250	1400

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 40.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:77:LYS:O	1:E:67:ALA:HB2	1.08	1.47	1	5
1:A:67:ALA:HB2	1:D:77:LYS:O	1.07	1.49	1	5
1:B:77:LYS:O	1:D:67:ALA:HB2	1.06	1.51	1	5
1:A:77:LYS:O	1:C:67:ALA:HB2	1.05	1.51	1	5
1:A:2:LYS:HG2	1:D:47:VAL:HG21	1.04	1.04	1	1
1:B:2:LYS:HG2	1:E:47:VAL:HG21	1.03	1.06	1	1
1:B:67:ALA:HB2	1:E:77:LYS:O	1.03	1.51	1	5
1:A:2:LYS:HG2	1:D:47:VAL:CG2	1.03	1.84	1	1
1:A:47:VAL:HG21	1:C:2:LYS:HG2	1.03	1.05	1	1
1:C:47:VAL:CG2	1:E:2:LYS:HG2	1.02	1.84	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:47:VAL:CG2	1:D:2:LYS:HG2	1.01	1.85	1	1
1:A:47:VAL:CG2	1:C:2:LYS:HG2	1.00	1.85	1	1
1:B:2:LYS:HG2	1:E:47:VAL:CG2	1.00	1.85	1	1
1:B:47:VAL:HG21	1:D:2:LYS:HG2	1.00	1.05	1	1
1:A:2:LYS:CG	1:D:47:VAL:HG21	0.99	1.87	1	1
1:C:47:VAL:HG21	1:E:2:LYS:HG2	0.99	1.05	1	1
1:B:84:VAL:HB	1:E:16:GLU:HB2	0.98	1.36	3	4
1:B:2:LYS:CG	1:E:47:VAL:HG21	0.97	1.89	1	1
1:B:47:VAL:HG21	1:D:2:LYS:CG	0.97	1.89	1	1
1:C:47:VAL:HG11	1:E:2:LYS:HD2	0.97	1.29	2	4
1:A:2:LYS:HD2	1:D:47:VAL:HG11	0.97	1.33	2	4
1:A:47:VAL:HG21	1:C:2:LYS:CG	0.96	1.89	1	1
1:B:47:VAL:HG11	1:D:2:LYS:HD2	0.96	1.36	2	4
1:C:47:VAL:HG21	1:E:2:LYS:CG	0.96	1.89	1	1
1:B:2:LYS:HD2	1:E:47:VAL:HG11	0.94	1.34	2	3
1:A:47:VAL:HG11	1:C:2:LYS:HD2	0.94	1.39	4	3
1:B:16:GLU:HB2	1:D:84:VAL:HB	0.94	1.37	3	4
1:A:84:VAL:HB	1:D:16:GLU:HB2	0.94	1.37	3	4
1:A:16:GLU:HB2	1:C:84:VAL:HB	0.94	1.39	5	4
1:A:45:TYR:HB2	1:C:1:MET:HB3	0.93	1.39	2	2
1:C:16:GLU:HB2	1:E:84:VAL:HB	0.92	1.37	3	4
1:C:77:LYS:C	1:E:67:ALA:HB2	0.90	1.86	1	5
1:B:45:TYR:HB2	1:D:1:MET:HB3	0.90	1.41	4	2
1:C:45:TYR:HB2	1:E:1:MET:HB3	0.90	1.41	4	2
1:B:67:ALA:HB2	1:E:77:LYS:C	0.89	1.88	1	5
1:A:77:LYS:C	1:C:67:ALA:HB2	0.89	1.87	1	5
1:A:67:ALA:HB2	1:D:77:LYS:C	0.89	1.87	1	5
1:B:77:LYS:C	1:D:67:ALA:HB2	0.88	1.87	1	5
1:C:45:TYR:C	1:C:45:TYR:CD2	0.87	2.48	5	2
1:D:45:TYR:C	1:D:45:TYR:CD2	0.86	2.48	5	2
1:A:45:TYR:C	1:A:45:TYR:CD2	0.86	2.48	5	2
1:E:45:TYR:C	1:E:45:TYR:CD2	0.85	2.48	5	2
1:B:1:MET:HB3	1:E:45:TYR:HB2	0.85	1.47	2	2
1:B:45:TYR:C	1:B:45:TYR:CD2	0.85	2.48	5	2
1:A:1:MET:HB3	1:D:45:TYR:HB2	0.84	1.45	2	2
1:C:47:VAL:HG11	1:E:2:LYS:CD	0.81	2.04	2	4
1:A:45:TYR:HA	1:C:1:MET:CB	0.79	2.08	3	4
1:A:2:LYS:CD	1:D:47:VAL:HG11	0.79	2.07	2	4
1:B:1:MET:CB	1:E:45:TYR:HA	0.78	2.08	3	4
1:B:2:LYS:CD	1:E:47:VAL:HG11	0.78	2.08	2	3
1:B:18:THR:HG21	1:D:67:ALA:CB	0.77	2.10	5	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:84:VAL:HB	1:E:16:GLU:CB	0.77	2.09	3	4
1:B:67:ALA:CB	1:E:18:THR:HG21	0.76	2.10	5	5
1:B:47:VAL:HG11	1:D:2:LYS:CD	0.76	2.09	2	3
1:A:16:GLU:CB	1:C:84:VAL:HB	0.76	2.11	3	4
1:A:47:VAL:HG11	1:C:2:LYS:CD	0.76	2.11	2	4
1:C:18:THR:HG21	1:E:67:ALA:CB	0.75	2.12	5	5
1:B:16:GLU:CB	1:D:84:VAL:HB	0.74	2.12	3	4
1:A:18:THR:HG21	1:C:67:ALA:CB	0.74	2.11	5	5
1:A:67:ALA:CB	1:D:18:THR:HG21	0.74	2.11	5	5
1:A:30:LEU:N	1:A:30:LEU:HD12	0.74	1.98	3	2
1:A:84:VAL:HB	1:D:16:GLU:CB	0.73	2.12	3	4
1:B:30:LEU:HD12	1:B:30:LEU:N	0.73	1.98	3	2
1:E:30:LEU:HD12	1:E:30:LEU:N	0.73	1.98	3	2
1:A:75:THR:O	1:A:76:ASP:CG	0.72	2.28	5	1
1:B:75:THR:O	1:B:76:ASP:CG	0.72	2.28	5	1
1:D:30:LEU:HD12	1:D:30:LEU:N	0.72	1.99	3	2
1:C:16:GLU:CB	1:E:84:VAL:HB	0.72	2.14	3	4
1:C:30:LEU:N	1:C:30:LEU:HD12	0.72	1.99	3	2
1:D:75:THR:O	1:D:76:ASP:CG	0.72	2.27	5	1
1:E:75:THR:O	1:E:76:ASP:CG	0.72	2.28	5	1
1:C:16:GLU:OE1	1:E:68:ALA:HA	0.71	1.85	2	3
1:C:75:THR:O	1:C:76:ASP:CG	0.71	2.28	5	1
1:B:2:LYS:CB	1:E:47:VAL:HG11	0.70	2.16	3	4
1:B:1:MET:HA	1:E:45:TYR:O	0.70	1.86	3	2
1:A:47:VAL:HG11	1:C:2:LYS:CB	0.69	2.16	3	4
1:A:45:TYR:O	1:C:1:MET:HA	0.69	1.86	3	4
1:B:68:ALA:HA	1:E:16:GLU:OE1	0.69	1.87	2	3
1:C:45:TYR:HA	1:E:1:MET:CB	0.69	2.18	5	4
1:B:45:TYR:HA	1:D:1:MET:CB	0.69	2.17	3	4
1:A:45:TYR:CD1	1:C:1:MET:HB3	0.68	2.23	5	2
1:C:45:TYR:CE1	1:E:1:MET:N	0.68	2.60	5	2
1:A:1:MET:HB3	1:D:45:TYR:CD1	0.68	2.24	5	2
1:A:16:GLU:OE2	1:C:68:ALA:HA	0.67	1.90	1	2
1:B:16:GLU:OE1	1:D:68:ALA:HA	0.67	1.89	2	3
1:B:45:TYR:CD1	1:D:1:MET:HB3	0.67	2.24	5	2
1:B:16:GLU:OE2	1:D:68:ALA:HA	0.67	1.90	1	2
1:A:68:ALA:HA	1:D:16:GLU:OE2	0.67	1.90	1	2
1:C:77:LYS:O	1:E:67:ALA:CB	0.67	2.38	1	1
1:A:68:ALA:HA	1:D:16:GLU:OE1	0.67	1.89	2	3
1:A:16:GLU:OE1	1:C:68:ALA:HA	0.67	1.90	2	3
1:B:68:ALA:HA	1:E:16:GLU:OE2	0.66	1.89	1	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:45:TYR:CD1	1:E:1:MET:HB3	0.66	2.24	5	2
1:A:47:VAL:CG2	1:C:2:LYS:HB2	0.66	2.20	5	4
1:C:16:GLU:OE2	1:E:68:ALA:HA	0.66	1.89	1	2
1:A:1:MET:CB	1:D:45:TYR:HA	0.66	2.20	3	4
1:A:45:TYR:CE1	1:C:1:MET:N	0.66	2.63	5	2
1:B:1:MET:HB3	1:E:45:TYR:CD1	0.66	2.26	5	2
1:B:18:THR:HG21	1:D:67:ALA:HB1	0.65	1.68	1	5
1:B:45:TYR:CD2	1:B:46:GLU:N	0.65	2.65	2	2
1:A:18:THR:HG21	1:C:67:ALA:HB1	0.65	1.68	1	5
1:A:45:TYR:CD2	1:A:46:GLU:N	0.65	2.64	2	2
1:B:45:TYR:CE1	1:D:1:MET:N	0.65	2.64	5	2
1:D:45:TYR:C	1:D:45:TYR:HD2	0.65	1.95	5	2
1:C:45:TYR:CD2	1:C:46:GLU:N	0.65	2.65	2	2
1:E:45:TYR:CD2	1:E:46:GLU:N	0.65	2.65	2	2
1:D:45:TYR:CD2	1:D:46:GLU:N	0.65	2.65	2	2
1:C:42:LEU:N	1:C:43:PRO:CD	0.64	2.61	1	5
1:B:47:VAL:HG11	1:D:2:LYS:CB	0.64	2.21	3	4
1:C:47:VAL:HG11	1:E:2:LYS:CB	0.64	2.22	3	4
1:C:18:THR:HG21	1:E:67:ALA:HB1	0.64	1.68	1	5
1:E:42:LEU:N	1:E:43:PRO:CD	0.64	2.60	5	5
1:C:47:VAL:CG2	1:E:2:LYS:HB2	0.64	2.23	5	4
1:D:42:LEU:N	1:D:43:PRO:CD	0.64	2.60	2	5
1:A:2:LYS:HD2	1:D:47:VAL:CG1	0.64	2.19	2	2
1:B:1:MET:N	1:E:45:TYR:CE1	0.64	2.64	5	2
1:A:42:LEU:N	1:A:43:PRO:CD	0.64	2.60	5	5
1:A:67:ALA:CB	1:D:77:LYS:O	0.64	2.39	1	1
1:B:67:ALA:HB1	1:E:18:THR:HG21	0.64	1.67	1	5
1:A:2:LYS:CB	1:D:47:VAL:HG11	0.64	2.23	3	4
1:B:47:VAL:CG2	1:D:2:LYS:HB2	0.64	2.23	5	4
1:A:67:ALA:HB1	1:D:18:THR:HG21	0.63	1.70	1	5
1:B:42:LEU:N	1:B:43:PRO:CD	0.63	2.60	1	5
1:A:2:LYS:HB2	1:D:47:VAL:CG2	0.63	2.23	5	4
1:A:2:LYS:CG	1:D:47:VAL:CG2	0.63	2.65	1	1
1:B:47:VAL:CG2	1:D:2:LYS:CG	0.63	2.66	1	1
1:B:77:LYS:O	1:D:67:ALA:CB	0.63	2.41	1	1
1:C:2:LYS:HZ3	1:C:62:VAL:N	0.63	1.91	1	1
1:A:1:MET:N	1:D:45:TYR:CE1	0.63	2.63	5	2
1:B:1:MET:HB2	1:E:45:TYR:HA	0.63	1.70	3	4
1:A:45:TYR:C	1:A:45:TYR:HD2	0.63	1.95	5	2
1:A:45:TYR:CG	1:C:1:MET:HB3	0.63	2.29	5	3
1:B:2:LYS:HB2	1:E:47:VAL:CG1	0.63	2.24	3	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:45:TYR:C	1:C:45:TYR:HD2	0.62	1.95	5	2
1:A:47:VAL:CG1	1:C:2:LYS:HB2	0.62	2.24	3	5
1:A:45:TYR:HA	1:C:1:MET:HB2	0.62	1.71	2	4
1:B:2:LYS:HZ3	1:B:62:VAL:N	0.62	1.92	1	1
1:B:2:LYS:HB2	1:E:47:VAL:HG11	0.62	1.70	3	2
1:B:2:LYS:HB2	1:E:47:VAL:CG2	0.62	2.25	5	4
1:A:47:VAL:HG21	1:C:2:LYS:HB2	0.62	1.71	5	4
1:A:30:LEU:N	1:A:30:LEU:CD1	0.61	2.63	3	2
1:A:47:VAL:HG11	1:C:2:LYS:HB2	0.61	1.70	3	2
1:C:47:VAL:CG1	1:E:2:LYS:HD2	0.61	2.15	2	2
1:B:45:TYR:HA	1:D:1:MET:HB2	0.61	1.71	4	4
1:B:68:ALA:CA	1:E:16:GLU:OE1	0.61	2.48	2	3
1:C:30:LEU:N	1:C:30:LEU:CD1	0.61	2.64	3	2
1:D:30:LEU:N	1:D:30:LEU:CD1	0.61	2.64	3	2
1:C:16:GLU:OE1	1:E:68:ALA:CA	0.61	2.48	2	3
1:C:47:VAL:CG2	1:E:2:LYS:CG	0.61	2.65	1	1
1:B:30:LEU:N	1:B:30:LEU:CD1	0.61	2.64	3	2
1:E:30:LEU:N	1:E:30:LEU:CD1	0.61	2.63	3	2
1:B:1:MET:HB3	1:E:45:TYR:CG	0.60	2.31	3	3
1:C:45:TYR:CG	1:E:1:MET:HB3	0.60	2.31	5	3
1:B:67:ALA:CB	1:E:77:LYS:O	0.60	2.41	1	1
1:B:47:VAL:CG1	1:D:2:LYS:HD2	0.60	2.21	2	2
1:B:45:TYR:C	1:B:45:TYR:HD2	0.60	1.95	5	2
1:A:2:LYS:HZ3	1:A:62:VAL:N	0.60	1.93	1	1
1:B:67:ALA:HB3	1:E:18:THR:HG21	0.60	1.72	3	3
1:A:77:LYS:O	1:C:67:ALA:CB	0.60	2.41	1	1
1:B:2:LYS:CG	1:E:47:VAL:CG2	0.60	2.67	1	1
1:B:18:THR:HG21	1:D:67:ALA:HB3	0.60	1.73	5	3
1:A:45:TYR:CB	1:C:1:MET:HB3	0.60	2.27	5	5
1:E:2:LYS:HZ3	1:E:62:VAL:N	0.60	1.94	1	1
1:A:68:ALA:CA	1:D:16:GLU:OE1	0.60	2.50	2	3
1:B:47:VAL:HG21	1:D:2:LYS:HB2	0.59	1.74	5	4
1:D:2:LYS:HZ3	1:D:62:VAL:N	0.59	1.95	1	1
1:C:45:TYR:HA	1:E:1:MET:HB2	0.59	1.73	5	4
1:B:2:LYS:HB2	1:E:47:VAL:HG21	0.59	1.72	3	3
1:B:16:GLU:OE1	1:D:68:ALA:CA	0.59	2.50	2	3
1:C:45:TYR:CB	1:E:1:MET:HB3	0.59	2.27	5	4
1:C:47:VAL:CG1	1:E:2:LYS:HB2	0.59	2.28	4	5
1:A:1:MET:HB3	1:D:45:TYR:CG	0.59	2.32	5	3
1:B:45:TYR:CB	1:D:1:MET:HB3	0.59	2.25	4	5
1:B:1:MET:HB3	1:E:45:TYR:CB	0.59	2.28	3	4

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2:LYS:HB2	1:D:47:VAL:HG21	0.59	1.74	5	3
1:C:24:PHE:CZ	1:E:2:LYS:NZ	0.59	2.65	2	2
1:B:45:TYR:CG	1:D:1:MET:HB3	0.59	2.33	5	3
1:A:16:GLU:OE1	1:C:68:ALA:CA	0.59	2.51	4	3
1:A:18:THR:HG21	1:C:67:ALA:HB3	0.59	1.75	3	4
1:B:45:TYR:O	1:D:1:MET:HA	0.59	1.97	3	3
1:B:84:VAL:CB	1:E:16:GLU:HB2	0.58	2.20	3	2
1:D:41:PHE:N	1:D:41:PHE:CD1	0.58	2.72	3	5
1:B:75:THR:O	1:B:76:ASP:OD1	0.58	2.21	4	2
1:B:47:VAL:CG1	1:D:2:LYS:HB2	0.58	2.28	4	5
1:A:84:VAL:CB	1:D:16:GLU:HB2	0.58	2.22	3	2
1:A:75:THR:O	1:A:76:ASP:OD1	0.58	2.21	4	2
1:D:75:THR:O	1:D:76:ASP:OD1	0.58	2.21	4	2
1:A:67:ALA:HB3	1:D:18:THR:HG21	0.58	1.75	5	3
1:A:1:MET:HA	1:D:45:TYR:O	0.58	1.98	3	2
1:A:1:MET:CB	1:D:45:TYR:HB3	0.58	2.28	1	1
1:A:45:TYR:HB3	1:C:1:MET:CB	0.58	2.29	1	1
1:B:16:GLU:OE2	1:D:68:ALA:N	0.58	2.37	5	1
1:A:1:MET:HB3	1:D:45:TYR:HB3	0.58	1.76	1	1
1:C:74:GLY:O	1:C:75:THR:OG1	0.58	2.21	2	5
1:C:75:THR:O	1:C:76:ASP:OD1	0.58	2.21	4	2
1:C:16:GLU:OE2	1:E:68:ALA:CA	0.58	2.52	5	1
1:A:1:MET:HB2	1:D:45:TYR:HA	0.58	1.76	5	4
1:B:2:LYS:HD2	1:E:47:VAL:CG1	0.58	2.20	2	2
1:A:45:TYR:HB3	1:C:1:MET:HB3	0.57	1.75	1	1
1:E:41:PHE:CD1	1:E:41:PHE:N	0.57	2.72	3	5
1:B:68:ALA:CA	1:E:16:GLU:OE2	0.57	2.52	5	1
1:A:2:LYS:NZ	1:D:24:PHE:CZ	0.57	2.69	2	2
1:A:68:ALA:CA	1:D:16:GLU:OE2	0.57	2.52	5	1
1:C:41:PHE:N	1:C:41:PHE:CD1	0.57	2.72	3	5
1:A:16:GLU:OE2	1:C:68:ALA:N	0.57	2.37	5	1
1:A:47:VAL:CG2	1:C:2:LYS:CG	0.57	2.67	1	1
1:B:16:GLU:OE2	1:D:68:ALA:CA	0.57	2.51	5	2
1:E:74:GLY:O	1:E:75:THR:OG1	0.57	2.20	4	5
1:A:16:GLU:HB2	1:C:84:VAL:CB	0.57	2.22	3	2
1:B:47:VAL:HG11	1:D:2:LYS:HB2	0.57	1.75	3	2
1:B:41:PHE:N	1:B:41:PHE:CD1	0.57	2.73	2	5
1:B:45:TYR:HB3	1:D:1:MET:CB	0.57	2.29	1	1
1:C:45:TYR:O	1:E:1:MET:HA	0.57	1.98	5	3
1:C:47:VAL:HG21	1:E:2:LYS:HB2	0.57	1.75	5	2
1:B:68:ALA:N	1:E:16:GLU:OE2	0.57	2.37	5	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:75:THR:O	1:E:76:ASP:OD1	0.57	2.22	4	2
1:A:16:GLU:OE2	1:C:68:ALA:CA	0.57	2.52	5	2
1:C:16:GLU:OE1	1:E:68:ALA:N	0.57	2.37	3	3
1:B:68:ALA:N	1:E:16:GLU:OE1	0.57	2.38	3	3
1:C:45:TYR:HB3	1:E:1:MET:CB	0.56	2.29	1	1
1:A:68:ALA:N	1:D:16:GLU:OE2	0.56	2.38	5	1
1:A:47:VAL:CG1	1:C:2:LYS:HD2	0.56	2.23	4	2
1:A:1:MET:HB3	1:D:45:TYR:CB	0.56	2.31	5	5
1:B:1:MET:CB	1:E:45:TYR:HB3	0.56	2.30	1	1
1:B:45:TYR:HB3	1:D:1:MET:HB3	0.56	1.76	1	1
1:C:18:THR:HG21	1:E:67:ALA:HB3	0.56	1.77	5	2
1:A:41:PHE:CD1	1:A:41:PHE:N	0.56	2.72	3	5
1:D:2:LYS:HZ3	1:D:62:VAL:C	0.56	2.03	1	1
1:D:74:GLY:O	1:D:75:THR:OG1	0.56	2.20	4	5
1:A:42:LEU:H	1:A:43:PRO:CD	0.56	2.14	1	5
1:C:42:LEU:H	1:C:43:PRO:CD	0.56	2.14	4	5
1:C:16:GLU:OE2	1:E:68:ALA:N	0.56	2.39	5	1
1:B:2:LYS:NZ	1:E:24:PHE:CZ	0.56	2.71	2	2
1:E:45:TYR:C	1:E:45:TYR:HD2	0.56	1.95	5	2
1:B:1:MET:HB3	1:E:45:TYR:HB3	0.55	1.78	1	1
1:A:68:ALA:N	1:D:16:GLU:OE1	0.55	2.39	3	3
1:A:2:LYS:HB2	1:D:47:VAL:CG1	0.55	2.31	4	4
1:C:45:TYR:HB2	1:E:1:MET:CB	0.55	2.25	4	2
1:A:2:LYS:HZ3	1:A:62:VAL:C	0.55	2.05	1	1
1:D:42:LEU:H	1:D:43:PRO:CD	0.55	2.14	2	5
1:C:45:TYR:HB3	1:E:1:MET:HB3	0.55	1.77	1	1
1:E:2:LYS:HZ3	1:E:62:VAL:C	0.55	2.04	1	1
1:B:42:LEU:H	1:B:43:PRO:CD	0.55	2.14	3	5
1:E:42:LEU:H	1:E:43:PRO:CD	0.55	2.14	5	5
1:B:16:GLU:OE1	1:D:68:ALA:N	0.55	2.39	3	3
1:B:2:LYS:HZ3	1:B:62:VAL:C	0.55	2.05	1	1
1:E:45:TYR:N	1:E:45:TYR:CD1	0.55	2.75	1	1
1:A:2:LYS:HB2	1:D:47:VAL:HG11	0.55	1.79	3	2
1:C:45:TYR:N	1:C:45:TYR:CD1	0.55	2.75	1	1
1:C:47:VAL:HG11	1:E:2:LYS:HB2	0.55	1.78	3	2
1:B:16:GLU:HB2	1:D:84:VAL:CB	0.55	2.23	3	2
1:A:47:VAL:CG1	1:C:2:LYS:CB	0.55	2.85	2	4
1:A:16:GLU:OE1	1:C:68:ALA:N	0.54	2.40	3	3
1:B:45:TYR:HB2	1:D:1:MET:CB	0.54	2.29	2	2
1:A:74:GLY:O	1:A:75:THR:OG1	0.54	2.20	4	5
1:B:45:TYR:N	1:B:45:TYR:CD1	0.54	2.75	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:D:79:ILE:O	1:D:80:ASP:CG	0.54	2.46	1	5
1:B:47:VAL:CG1	1:D:2:LYS:CB	0.54	2.86	4	3
1:C:18:THR:HG23	1:C:19:LEU:CD1	0.54	2.33	3	5
1:A:18:THR:HG23	1:A:19:LEU:CD1	0.54	2.33	3	5
1:E:18:THR:HG23	1:E:19:LEU:CD1	0.54	2.33	3	5
1:A:45:TYR:CB	1:C:1:MET:CB	0.54	2.85	1	2
1:A:45:TYR:HB2	1:C:1:MET:CB	0.54	2.25	2	2
1:A:79:ILE:O	1:A:80:ASP:CG	0.54	2.46	1	5
1:B:1:MET:CB	1:E:45:TYR:HB2	0.54	2.29	2	2
1:B:24:PHE:CZ	1:D:2:LYS:NZ	0.54	2.71	2	2
1:D:18:THR:HG23	1:D:19:LEU:CD1	0.54	2.33	3	5
1:C:79:ILE:O	1:C:80:ASP:CG	0.54	2.46	1	5
1:D:28:GLN:OE1	1:D:41:PHE:CD1	0.53	2.61	2	5
1:A:28:GLN:OE1	1:A:41:PHE:CD1	0.53	2.61	2	5
1:B:79:ILE:O	1:B:80:ASP:CG	0.53	2.46	1	5
1:E:28:GLN:OE1	1:E:41:PHE:CD1	0.53	2.61	2	5
1:B:28:GLN:OE1	1:B:41:PHE:CD1	0.53	2.61	2	5
1:B:74:GLY:O	1:B:75:THR:OG1	0.53	2.20	4	5
1:C:28:GLN:OE1	1:C:41:PHE:CD1	0.53	2.61	2	5
1:A:1:MET:CB	1:D:45:TYR:CB	0.53	2.86	1	1
1:C:2:LYS:HZ3	1:C:62:VAL:C	0.53	2.07	1	1
1:E:79:ILE:O	1:E:80:ASP:CG	0.53	2.46	1	5
1:C:45:TYR:CB	1:E:1:MET:CB	0.53	2.86	1	1
1:A:74:GLY:C	1:A:76:ASP:H	0.53	2.08	2	5
1:C:74:GLY:C	1:C:76:ASP:H	0.53	2.08	2	5
1:B:45:TYR:CB	1:D:1:MET:CB	0.53	2.86	1	2
1:B:18:THR:HG23	1:B:19:LEU:CD1	0.53	2.33	3	5
1:B:1:MET:CB	1:E:45:TYR:CB	0.52	2.88	1	1
1:D:74:GLY:C	1:D:76:ASP:H	0.52	2.08	1	5
1:A:24:PHE:CZ	1:C:2:LYS:NZ	0.52	2.71	4	2
1:E:74:GLY:C	1:E:76:ASP:H	0.52	2.07	1	5
1:C:16:GLU:HB2	1:E:84:VAL:CB	0.52	2.24	3	2
1:C:45:TYR:CG	1:C:46:GLU:N	0.52	2.77	2	2
1:D:45:TYR:CD1	1:D:45:TYR:N	0.52	2.75	1	1
1:A:9:THR:OG1	1:A:26:VAL:HG23	0.51	2.05	3	5
1:A:45:TYR:N	1:A:45:TYR:CD1	0.51	2.75	1	1
1:D:45:TYR:CD2	1:D:45:TYR:O	0.51	2.63	5	2
1:D:75:THR:O	1:D:76:ASP:O	0.51	2.29	3	5
1:B:45:TYR:CG	1:B:46:GLU:N	0.51	2.77	2	2
1:C:2:LYS:NZ	1:C:62:VAL:N	0.51	2.59	1	1
1:C:47:VAL:CG1	1:E:2:LYS:CB	0.51	2.86	4	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:45:TYR:CD2	1:B:45:TYR:O	0.51	2.63	5	2
1:C:45:TYR:HD2	1:C:46:GLU:N	0.51	2.04	5	2
1:C:47:VAL:HG11	1:E:2:LYS:CG	0.51	2.36	1	1
1:B:9:THR:OG1	1:B:26:VAL:HG23	0.51	2.05	3	5
1:D:9:THR:OG1	1:D:26:VAL:HG23	0.51	2.05	3	5
1:E:75:THR:O	1:E:76:ASP:O	0.51	2.29	1	5
1:E:45:TYR:CD2	1:E:45:TYR:O	0.51	2.64	5	2
1:B:74:GLY:C	1:B:76:ASP:H	0.51	2.07	3	5
1:D:2:LYS:NZ	1:D:62:VAL:N	0.51	2.59	1	1
1:A:24:PHE:CE1	1:C:2:LYS:NZ	0.51	2.77	4	2
1:E:45:TYR:HD2	1:E:46:GLU:N	0.51	2.04	5	2
1:A:2:LYS:NZ	1:A:62:VAL:N	0.50	2.59	1	1
1:A:75:THR:O	1:A:76:ASP:O	0.50	2.29	1	5
1:C:47:VAL:HG11	1:E:2:LYS:HG3	0.50	1.83	1	1
1:A:45:TYR:CA	1:C:1:MET:CB	0.50	2.88	3	3
1:C:9:THR:OG1	1:C:26:VAL:HG23	0.50	2.06	3	5
1:B:75:THR:O	1:B:76:ASP:O	0.50	2.29	3	5
1:D:45:TYR:HD2	1:D:46:GLU:N	0.50	2.04	5	2
1:E:9:THR:OG1	1:E:26:VAL:HG23	0.50	2.05	3	5
1:A:45:TYR:CG	1:A:46:GLU:N	0.50	2.77	4	2
1:A:45:TYR:CD2	1:A:45:TYR:O	0.50	2.63	5	2
1:A:45:TYR:HD2	1:A:46:GLU:N	0.50	2.04	5	2
1:B:2:LYS:NZ	1:B:62:VAL:N	0.50	2.59	1	1
1:C:45:TYR:CG	1:E:1:MET:CB	0.50	2.95	1	2
1:D:36:HIS:O	1:D:37:HIS:O	0.50	2.30	1	5
1:E:45:TYR:CG	1:E:46:GLU:N	0.50	2.77	4	2
1:C:45:TYR:CD2	1:C:45:TYR:O	0.50	2.63	5	2
1:A:36:HIS:O	1:A:37:HIS:O	0.50	2.30	4	5
1:B:45:TYR:HD2	1:B:46:GLU:N	0.50	2.04	5	2
1:B:24:PHE:CE1	1:D:2:LYS:NZ	0.50	2.77	4	2
1:C:36:HIS:O	1:C:37:HIS:O	0.50	2.30	1	5
1:C:75:THR:O	1:C:76:ASP:O	0.50	2.29	1	5
1:A:2:LYS:CB	1:D:47:VAL:CG1	0.50	2.89	2	3
1:B:2:LYS:CB	1:E:47:VAL:CG1	0.49	2.90	2	4
1:A:1:MET:CB	1:D:45:TYR:HB2	0.49	2.28	2	2
1:C:45:TYR:CD1	1:E:1:MET:CB	0.49	2.95	5	2
1:A:2:LYS:CG	1:D:47:VAL:HG11	0.49	2.37	1	1
1:A:45:TYR:CG	1:C:1:MET:CB	0.49	2.95	1	2
1:A:47:VAL:HG11	1:C:2:LYS:CG	0.49	2.37	1	1
1:B:36:HIS:O	1:B:37:HIS:O	0.49	2.30	3	5
1:A:1:MET:CB	1:D:45:TYR:CG	0.49	2.96	1	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:E:36:HIS:O	1:E:37:HIS:O	0.49	2.30	3	5
1:B:2:LYS:CG	1:E:47:VAL:HG11	0.49	2.38	1	1
1:B:77:LYS:N	1:B:78:PRO:HD2	0.49	2.23	5	5
1:E:77:LYS:N	1:E:78:PRO:HD2	0.49	2.23	2	5
1:C:24:PHE:CE1	1:E:2:LYS:NZ	0.49	2.77	4	2
1:A:1:MET:CB	1:D:45:TYR:CD1	0.49	2.96	5	2
1:D:45:TYR:CG	1:D:46:GLU:N	0.49	2.77	4	2
1:E:2:LYS:NZ	1:E:62:VAL:N	0.49	2.60	1	1
1:B:47:VAL:HG11	1:D:2:LYS:CG	0.48	2.38	1	1
1:D:69:ARG:NH1	1:D:81:ALA:O	0.48	2.47	3	5
1:D:77:LYS:N	1:D:78:PRO:HD2	0.48	2.23	5	5
1:E:69:ARG:NH1	1:E:81:ALA:O	0.48	2.46	1	5
1:B:2:LYS:HG3	1:E:47:VAL:HG11	0.48	1.85	1	1
1:B:47:VAL:HG11	1:D:2:LYS:HG3	0.48	1.86	1	1
1:B:69:ARG:NH1	1:B:81:ALA:O	0.48	2.46	1	5
1:C:2:LYS:HZ2	1:C:61:LEU:HB3	0.48	1.69	1	1
1:A:2:LYS:HG3	1:D:47:VAL:HG11	0.48	1.84	1	1
1:B:2:LYS:HZ2	1:B:61:LEU:HB3	0.48	1.69	1	1
1:D:2:LYS:HZ2	1:D:61:LEU:HB3	0.48	1.68	1	1
1:C:69:ARG:NH1	1:C:81:ALA:O	0.48	2.46	1	5
1:A:16:GLU:CG	1:C:84:VAL:HB	0.48	2.39	3	1
1:B:84:VAL:HB	1:E:16:GLU:CG	0.48	2.38	3	1
1:A:47:VAL:HG11	1:C:2:LYS:HG3	0.47	1.85	1	1
1:B:45:TYR:CG	1:D:1:MET:CB	0.47	2.97	1	1
1:A:69:ARG:NH1	1:A:81:ALA:O	0.47	2.47	1	5
1:B:1:MET:CB	1:E:45:TYR:CG	0.47	2.97	1	1
1:C:77:LYS:N	1:C:78:PRO:HD2	0.47	2.23	1	5
1:E:50:ASP:OD2	1:E:51:THR:O	0.47	2.33	3	5
1:A:45:TYR:CD1	1:C:1:MET:CB	0.47	2.95	5	2
1:C:50:ASP:OD2	1:C:51:THR:O	0.47	2.33	3	5
1:A:50:ASP:OD2	1:A:51:THR:O	0.47	2.33	3	5
1:A:77:LYS:N	1:A:78:PRO:HD2	0.47	2.23	1	5
1:B:84:VAL:CG2	1:B:85:ALA:N	0.47	2.78	2	5
1:C:47:VAL:HG13	1:E:2:LYS:HB2	0.47	1.87	1	1
1:C:77:LYS:N	1:C:78:PRO:CD	0.47	2.78	1	5
1:E:84:VAL:CG2	1:E:85:ALA:N	0.47	2.78	2	5
1:B:45:TYR:CD1	1:D:1:MET:CB	0.47	2.96	5	1
1:C:45:TYR:CD1	1:E:1:MET:N	0.47	2.79	5	2
1:A:18:THR:CG2	1:C:67:ALA:HB1	0.47	2.40	5	1
1:A:77:LYS:N	1:A:78:PRO:CD	0.47	2.78	1	5
1:D:77:LYS:N	1:D:78:PRO:CD	0.47	2.78	3	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:84:VAL:CG2	1:A:85:ALA:N	0.47	2.78	5	5
1:E:77:LYS:N	1:E:78:PRO:CD	0.47	2.78	2	5
1:B:67:ALA:HB1	1:E:18:THR:CG2	0.47	2.39	5	2
1:A:2:LYS:HZ2	1:A:61:LEU:HB3	0.47	1.68	1	1
1:A:67:ALA:HB1	1:D:18:THR:CG2	0.47	2.40	5	2
1:B:18:THR:CG2	1:D:67:ALA:HB1	0.47	2.39	5	3
1:C:18:THR:CG2	1:E:67:ALA:HB1	0.47	2.40	5	3
1:B:77:LYS:N	1:B:78:PRO:CD	0.46	2.78	1	5
1:D:50:ASP:OD2	1:D:51:THR:O	0.46	2.33	3	5
1:E:25:LEU:O	1:E:48:ALA:O	0.46	2.34	3	5
1:A:25:LEU:O	1:A:48:ALA:O	0.46	2.33	5	5
1:B:47:VAL:HG13	1:D:2:LYS:HB2	0.46	1.87	1	1
1:E:2:LYS:HZ2	1:E:61:LEU:HB3	0.46	1.69	1	1
1:A:45:TYR:CD1	1:C:1:MET:N	0.46	2.83	5	2
1:B:1:MET:CB	1:E:45:TYR:CA	0.46	2.89	3	1
1:A:2:LYS:HB2	1:D:47:VAL:HG13	0.46	1.86	1	1
1:D:18:THR:HG23	1:D:19:LEU:HD12	0.46	1.87	1	5
1:B:50:ASP:OD2	1:B:51:THR:O	0.46	2.33	3	5
1:D:25:LEU:O	1:D:48:ALA:O	0.46	2.34	3	5
1:C:25:LEU:O	1:C:48:ALA:O	0.46	2.33	4	5
1:B:25:LEU:O	1:B:48:ALA:O	0.46	2.33	3	5
1:B:45:TYR:CD1	1:D:1:MET:N	0.46	2.83	5	1
1:A:47:VAL:HG13	1:C:2:LYS:HB2	0.46	1.86	1	1
1:C:84:VAL:CG2	1:C:85:ALA:N	0.46	2.78	5	5
1:C:16:GLU:OE1	1:C:18:THR:CG2	0.46	2.64	2	3
1:D:84:VAL:CG2	1:D:85:ALA:N	0.45	2.78	2	5
1:B:18:THR:HG23	1:B:19:LEU:HD12	0.45	1.87	1	5
1:E:18:THR:HG23	1:E:19:LEU:HD12	0.45	1.87	1	5
1:A:18:THR:HG23	1:A:19:LEU:HD12	0.45	1.87	1	5
1:A:84:VAL:HB	1:D:16:GLU:CG	0.45	2.41	3	1
1:B:2:LYS:HB2	1:E:47:VAL:HG13	0.45	1.87	1	1
1:C:16:GLU:OE2	1:C:18:THR:CG2	0.45	2.65	5	2
1:B:45:TYR:CE2	1:B:46:GLU:OE2	0.45	2.70	5	1
1:C:18:THR:HG23	1:C:19:LEU:HD12	0.45	1.87	1	5
1:A:74:GLY:C	1:A:76:ASP:N	0.45	2.70	3	5
1:B:74:GLY:C	1:B:76:ASP:N	0.45	2.70	3	5
1:B:2:LYS:NZ	1:E:24:PHE:CE1	0.45	2.78	4	2
1:A:16:GLU:OE2	1:A:18:THR:CG2	0.45	2.65	5	2
1:A:65:GLY:HA2	1:D:79:ILE:HD12	0.44	1.90	1	1
1:E:16:GLU:OE2	1:E:18:THR:CG2	0.44	2.66	5	2
1:E:74:GLY:C	1:E:76:ASP:N	0.44	2.70	3	5

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:B:16:GLU:OE1	1:B:18:THR:CG2	0.44	2.66	2	2
1:B:16:GLU:CG	1:D:84:VAL:HB	0.44	2.42	3	1
1:E:45:TYR:CE2	1:E:46:GLU:OE2	0.44	2.70	5	1
1:B:79:ILE:HD12	1:D:65:GLY:HA2	0.44	1.89	1	2
1:D:74:GLY:C	1:D:76:ASP:N	0.44	2.71	3	5
1:A:16:GLU:OE1	1:A:18:THR:CG2	0.44	2.66	2	2
1:B:1:MET:N	1:E:45:TYR:CD1	0.44	2.83	5	1
1:C:45:TYR:CE2	1:C:46:GLU:OE2	0.44	2.71	5	1
1:C:74:GLY:C	1:C:76:ASP:N	0.44	2.70	3	5
1:E:16:GLU:OE1	1:E:18:THR:CG2	0.44	2.66	2	2
1:A:1:MET:N	1:D:45:TYR:CD1	0.44	2.83	5	1
1:A:45:TYR:CE2	1:A:46:GLU:OE2	0.44	2.71	5	1
1:A:1:MET:SD	1:A:3:ILE:O	0.44	2.76	3	3
1:D:16:GLU:OE2	1:D:18:THR:CG2	0.44	2.66	5	2
1:A:45:TYR:HA	1:C:1:MET:HB3	0.44	1.88	3	1
1:D:45:TYR:CE2	1:D:46:GLU:OE2	0.44	2.71	5	1
1:B:16:GLU:OE2	1:B:18:THR:CG2	0.44	2.66	5	2
1:C:45:TYR:CA	1:E:1:MET:CB	0.44	2.94	5	1
1:B:16:GLU:HB3	1:B:19:LEU:HD13	0.44	1.90	3	4
1:D:1:MET:SD	1:D:3:ILE:O	0.44	2.76	3	2
1:B:1:MET:SD	1:B:3:ILE:O	0.43	2.76	3	2
1:A:16:GLU:HB3	1:A:19:LEU:HD13	0.43	1.90	3	4
1:C:16:GLU:HB3	1:C:19:LEU:HD13	0.43	1.90	3	4
1:C:45:TYR:CG	1:E:1:MET:CA	0.43	3.02	5	1
1:A:79:ILE:HD12	1:C:65:GLY:HA2	0.43	1.90	1	1
1:D:16:GLU:OE1	1:D:18:THR:CG2	0.43	2.66	2	2
1:E:16:GLU:HB3	1:E:19:LEU:HD13	0.43	1.90	3	4
1:A:45:TYR:CA	1:C:1:MET:HB3	0.43	2.44	3	1
1:E:1:MET:SD	1:E:3:ILE:O	0.43	2.76	3	2
1:B:65:GLY:HA2	1:E:79:ILE:HD12	0.43	1.90	1	1
1:B:1:MET:CB	1:E:45:TYR:CD1	0.43	2.98	5	2
1:A:61:LEU:N	1:A:61:LEU:HD23	0.43	2.29	5	1
1:C:1:MET:SD	1:C:3:ILE:O	0.43	2.76	3	3
1:A:2:LYS:NZ	1:D:24:PHE:CE1	0.43	2.78	2	2
1:C:33:ASP:O	1:C:36:HIS:O	0.43	2.37	1	5
1:D:61:LEU:N	1:D:61:LEU:HD23	0.42	2.29	5	1
1:B:61:LEU:N	1:B:61:LEU:HD23	0.42	2.29	5	1
1:C:11:THR:OG1	1:C:12:SER:N	0.42	2.53	3	5
1:E:33:ASP:O	1:E:36:HIS:O	0.42	2.37	5	5
1:C:16:GLU:OE2	1:C:18:THR:HG22	0.42	2.15	1	1
1:B:1:MET:HB3	1:E:45:TYR:CA	0.42	2.44	3	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:11:THR:OG1	1:A:12:SER:N	0.42	2.52	1	5
1:B:11:THR:OG1	1:B:12:SER:N	0.42	2.52	1	5
1:D:33:ASP:O	1:D:36:HIS:O	0.42	2.37	3	5
1:E:11:THR:OG1	1:E:12:SER:N	0.42	2.52	1	5
1:B:16:GLU:OE2	1:B:18:THR:HG22	0.42	2.15	1	1
1:E:2:LYS:HA	1:E:2:LYS:HD3	0.42	1.57	1	1
1:D:2:LYS:HE2	1:D:61:LEU:HD13	0.42	1.92	3	2
1:B:33:ASP:O	1:B:36:HIS:O	0.42	2.37	3	5
1:E:16:GLU:OE2	1:E:18:THR:HG22	0.42	2.15	1	1
1:D:16:GLU:OE2	1:D:18:THR:HG22	0.42	2.15	1	1
1:E:2:LYS:HE2	1:E:61:LEU:HD13	0.42	1.92	3	1
1:C:61:LEU:N	1:C:61:LEU:HD23	0.42	2.29	5	1
1:D:2:LYS:HD3	1:D:61:LEU:HD22	0.42	1.92	5	1
1:E:2:LYS:HD3	1:E:61:LEU:HD22	0.42	1.92	5	1
1:B:34:HIS:O	1:B:36:HIS:ND1	0.41	2.53	4	5
1:A:33:ASP:O	1:A:36:HIS:O	0.41	2.37	1	5
1:C:79:ILE:HD12	1:E:65:GLY:HA2	0.41	1.90	1	1
1:E:69:ARG:O	1:E:73:ASN:N	0.41	2.47	3	1
1:A:2:LYS:HD3	1:A:61:LEU:HD22	0.41	1.93	5	1
1:D:11:THR:OG1	1:D:12:SER:N	0.41	2.52	1	5
1:D:16:GLU:HB3	1:D:19:LEU:HD13	0.41	1.90	3	3
1:A:2:LYS:HE2	1:A:61:LEU:HD13	0.41	1.92	4	2
1:E:61:LEU:N	1:E:61:LEU:HD23	0.41	2.29	5	1
1:C:34:HIS:O	1:C:36:HIS:ND1	0.41	2.54	4	4
1:B:2:LYS:HE2	1:B:61:LEU:HD13	0.41	1.92	3	1
1:A:1:MET:CB	1:D:45:TYR:CA	0.41	2.97	5	1
1:D:34:HIS:O	1:D:36:HIS:ND1	0.41	2.53	4	2
1:C:84:VAL:HG23	1:C:85:ALA:N	0.41	2.31	1	1
1:A:34:HIS:O	1:A:36:HIS:ND1	0.41	2.53	4	2
1:A:84:VAL:HG23	1:A:85:ALA:N	0.40	2.31	1	1
1:D:84:VAL:HG23	1:D:85:ALA:N	0.40	2.31	1	1
1:E:84:VAL:HG23	1:E:85:ALA:N	0.40	2.31	1	1
1:C:2:LYS:HE2	1:C:61:LEU:HD13	0.40	1.92	4	2
1:A:16:GLU:OE2	1:A:18:THR:HG22	0.40	2.15	1	1
1:E:34:HIS:O	1:E:36:HIS:ND1	0.40	2.53	4	2
1:B:84:VAL:HG23	1:B:85:ALA:N	0.40	2.31	1	1
1:A:45:TYR:CG	1:C:1:MET:CA	0.40	3.04	5	1
1:C:45:TYR:CG	1:E:1:MET:HA	0.40	2.51	5	1
1:D:2:LYS:HD3	1:D:2:LYS:HA	0.40	1.57	1	1
1:A:8:GLY:O	1:A:9:THR:OG1	0.40	2.39	3	2
1:B:70:HIS:O	1:B:74:GLY:CA	0.40	2.70	5	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	90/104 (87%)	78±0 (87±0%)	8±0 (9±0%)	4±0 (4±0%)	4 29
1	B	90/104 (87%)	78±0 (87±0%)	8±0 (9±0%)	4±0 (4±0%)	4 29
1	C	90/104 (87%)	78±0 (87±0%)	8±0 (9±0%)	4±0 (4±0%)	4 29
1	D	90/104 (87%)	78±0 (87±0%)	8±0 (9±0%)	4±0 (4±0%)	4 29
1	E	90/104 (87%)	78±0 (87±0%)	8±0 (9±0%)	4±0 (4±0%)	4 29
All	All	2250/2600 (87%)	1950 (87%)	200 (9%)	100 (4%)	4 29

All 20 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	13	THR	5
1	A	37	HIS	5
1	A	76	ASP	5
1	A	77	LYS	5
1	B	13	THR	5
1	B	37	HIS	5
1	B	76	ASP	5
1	B	77	LYS	5
1	C	13	THR	5
1	C	37	HIS	5
1	C	76	ASP	5
1	C	77	LYS	5
1	D	13	THR	5
1	D	37	HIS	5
1	D	76	ASP	5
1	D	77	LYS	5
1	E	13	THR	5
1	E	37	HIS	5
1	E	76	ASP	5
1	E	77	LYS	5

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	75/87 (86%)	70±2 (93±3%)	5±2 (7±3%)	20	68
1	B	75/87 (86%)	70±2 (93±3%)	5±2 (7±3%)	20	68
1	C	75/87 (86%)	70±2 (93±3%)	5±2 (7±3%)	20	68
1	D	75/87 (86%)	70±2 (93±3%)	5±2 (7±3%)	20	68
1	E	75/87 (86%)	70±2 (93±3%)	5±2 (7±3%)	20	68
All	All	1875/2175 (86%)	1750 (93%)	125 (7%)	20	68

All 55 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	7	CYS	5
1	B	7	CYS	5
1	C	7	CYS	5
1	D	7	CYS	5
1	E	7	CYS	5
1	A	45	TYR	4
1	B	45	TYR	4
1	C	45	TYR	4
1	D	45	TYR	4
1	E	45	TYR	4
1	A	15	LYS	3
1	A	46	GLU	3
1	B	15	LYS	3
1	B	46	GLU	3
1	C	15	LYS	3
1	C	46	GLU	3
1	D	15	LYS	3
1	D	46	GLU	3
1	E	15	LYS	3
1	E	46	GLU	3
1	A	76	ASP	2
1	B	76	ASP	2
1	C	76	ASP	2
1	D	76	ASP	2

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Mol	Chain	Res	Type	Models (Total)
1	E	76	ASP	2
1	A	41	PHE	2
1	A	88	ASP	2
1	B	41	PHE	2
1	B	88	ASP	2
1	C	41	PHE	2
1	C	88	ASP	2
1	D	41	PHE	2
1	D	88	ASP	2
1	E	41	PHE	2
1	E	88	ASP	2
1	A	2	LYS	1
1	A	77	LYS	1
1	B	2	LYS	1
1	B	77	LYS	1
1	C	2	LYS	1
1	C	77	LYS	1
1	D	2	LYS	1
1	D	77	LYS	1
1	E	2	LYS	1
1	E	77	LYS	1
1	A	14	GLN	1
1	A	35	HIS	1
1	B	14	GLN	1
1	B	35	HIS	1
1	C	14	GLN	1
1	C	35	HIS	1
1	D	14	GLN	1
1	D	35	HIS	1
1	E	14	GLN	1
1	E	35	HIS	1

6.3.3 RNA

There are no RNA molecules in this entry.

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

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

The completeness of assignment taking into account all chemical shift lists is 6% for the well-defined parts and 6% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *CS_HCcmL@QD.star*

7.1.1 Bookkeeping

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

Total number of shifts	349
Number of shifts mapped to atoms	349
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

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction ± precision, *ppm*	Suggested action
$^{13}C_{\alpha}$	70	-0.61 ± 0.29	Should be applied
$^{13}C_{\beta}$	61	-0.64 ± 0.21	Should be applied
$^{13}C'$	69	-0.58 ± 0.12	Should be applied
^{15}N	69	0.83 ± 0.54	None needed (imprecise)

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 6%, i.e. 348 atoms were assigned a chemical shift out of a possible 6050. 0 out of 85 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	207/2320 (9%)	0/950 (0%)	139/920 (15%)	68/450 (15%)
Sidechain	141/3270 (4%)	0/2145 (0%)	141/1025 (14%)	0/100 (0%)

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	Total	^{1}H	^{13}C	^{15}N
Aromatic	0/460 (0%)	0/240 (0%)	0/185 (0%)	0/35 (0%)
Overall	348/6050 (6%)	0/3335 (0%)	280/2130 (13%)	68/585 (12%)

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 6%, i.e. 348 atoms were assigned a chemical shift out of a possible 6050. 0 out of 85 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^{1}H	^{13}C	^{15}N
Backbone	207/2320 (9%)	0/950 (0%)	139/920 (15%)	68/450 (15%)
Sidechain	141/3270 (4%)	0/2145 (0%)	141/1025 (14%)	0/100 (0%)
Aromatic	0/460 (0%)	0/240 (0%)	0/185 (0%)	0/35 (0%)
Overall	348/6050 (6%)	0/3335 (0%)	280/2130 (13%)	68/585 (12%)

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.

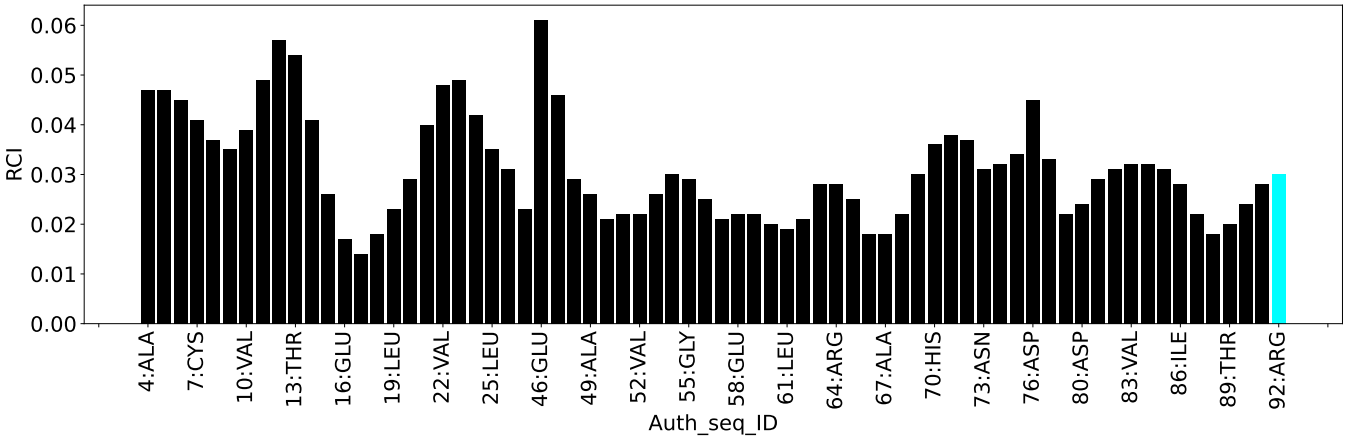
7.1.4 Statistically unusual chemical shifts (i)

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:


RCI
0.06
0.05
0.04
0.03
0.02
0.01
0.00
4:ALA
7:CYS
10:VAL
13:THR
16:GLU
19:LEU
22:VAL
25:LEU
46:GLU
49:ALA
52:VAL
55:GLY
58:GLU
61:LEU
64:ARG
67:ALA
70:HIS
73:ASN
76:ASP
80:ASP
83:VAL
86:ILE
89:THR
92:ARG
Auth_seq_ID

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	511
Intra-residue (|i-j|=0)	143
Sequential (|i-j|=1)	53
Medium range (|i-j|>1 and |i-j|<5)	35
Long range (|i-j|≥5)	107
Inter-chain	95
Hydrogen bond restraints	78
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	1.0
Number of long range restraints per residue[1]	0.3

[1]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)	2.2	0.13
0.2-0.5 (Medium)	10.2	0.5
>0.5 (Large)	85.2	34.51

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

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

9 Distance violation analysis (i)

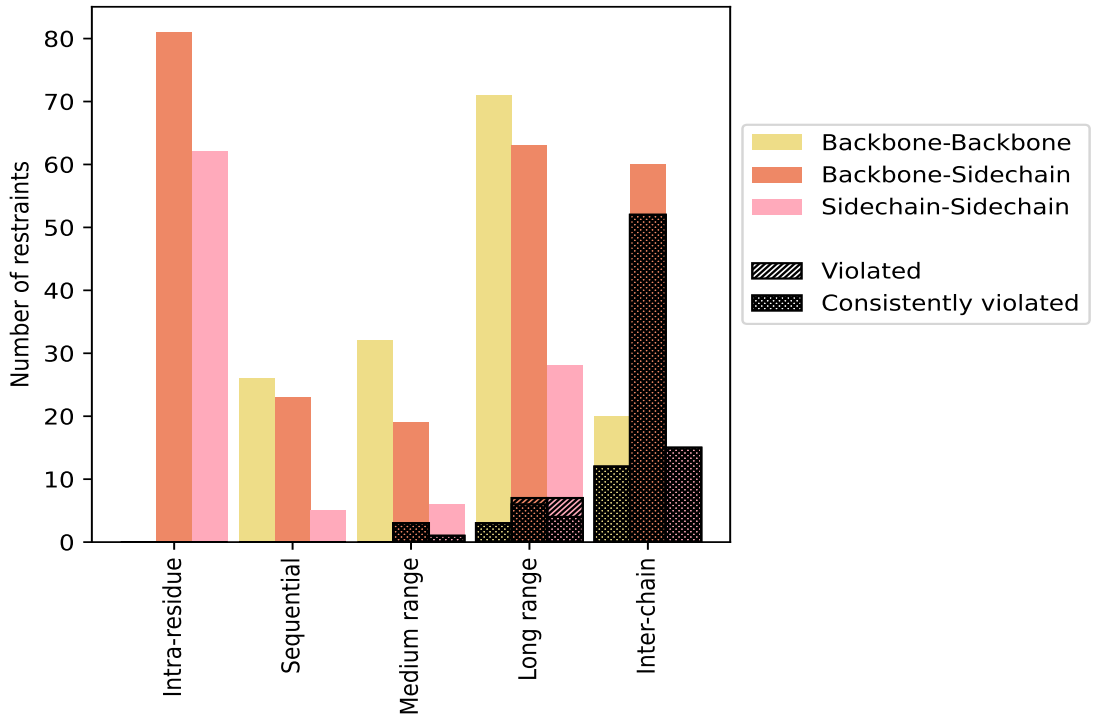
9.1 Summary of distance violations (i)

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.

Restraints type	Count	%[1]	Violated[3]			Consistently Violated[4]		
			Count	%[2]	%[1]	Count	%[2]	%[1]
Intra-residue (|i-j|=0)	143	28.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	81	15.9	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	62	12.1	0	0.0	0.0	0	0.0	0.0
Sequential (|i-j|=1)	53	10.4	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	26	5.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	22	4.3	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	5	1.0	0	0.0	0.0	0	0.0	0.0
Medium range (|i-j|>1 & |i-j|<5)	35	6.8	4	11.4	0.8	4	11.4	0.8
Backbone-Backbone	10	2.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	19	3.7	3	15.8	0.6	3	15.8	0.6
Sidechain-Sidechain	6	1.2	1	16.7	0.2	1	16.7	0.2
Long range (|i-j|≥5)	107	20.9	16	15.0	3.1	13	12.1	2.5
Backbone-Backbone	29	5.7	3	10.3	0.6	3	10.3	0.6
Backbone-Sidechain	50	9.8	6	12.0	1.2	6	12.0	1.2
Sidechain-Sidechain	28	5.5	7	25.0	1.4	4	14.3	0.8
Inter-chain	95	18.6	79	83.2	15.5	79	83.2	15.5
Backbone-Backbone	20	3.9	12	60.0	2.3	12	60.0	2.3
Backbone-Sidechain	60	11.7	52	86.7	10.2	52	86.7	10.2
Sidechain-Sidechain	15	2.9	15	100.0	2.9	15	100.0	2.9
Hydrogen bond	78	15.3	1	1.3	0.2	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	511	100.0	100	19.6	19.6	96	18.8	18.8
Backbone-Backbone	149	29.2	15	10.1	2.9	15	10.1	2.9
Backbone-Sidechain	246	48.1	62	25.2	12.1	61	24.8	11.9
Sidechain-Sidechain	116	22.7	23	19.8	4.5	20	17.2	3.9

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

9.1.1 Bar chart : Distribution of distance restraints and violations



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

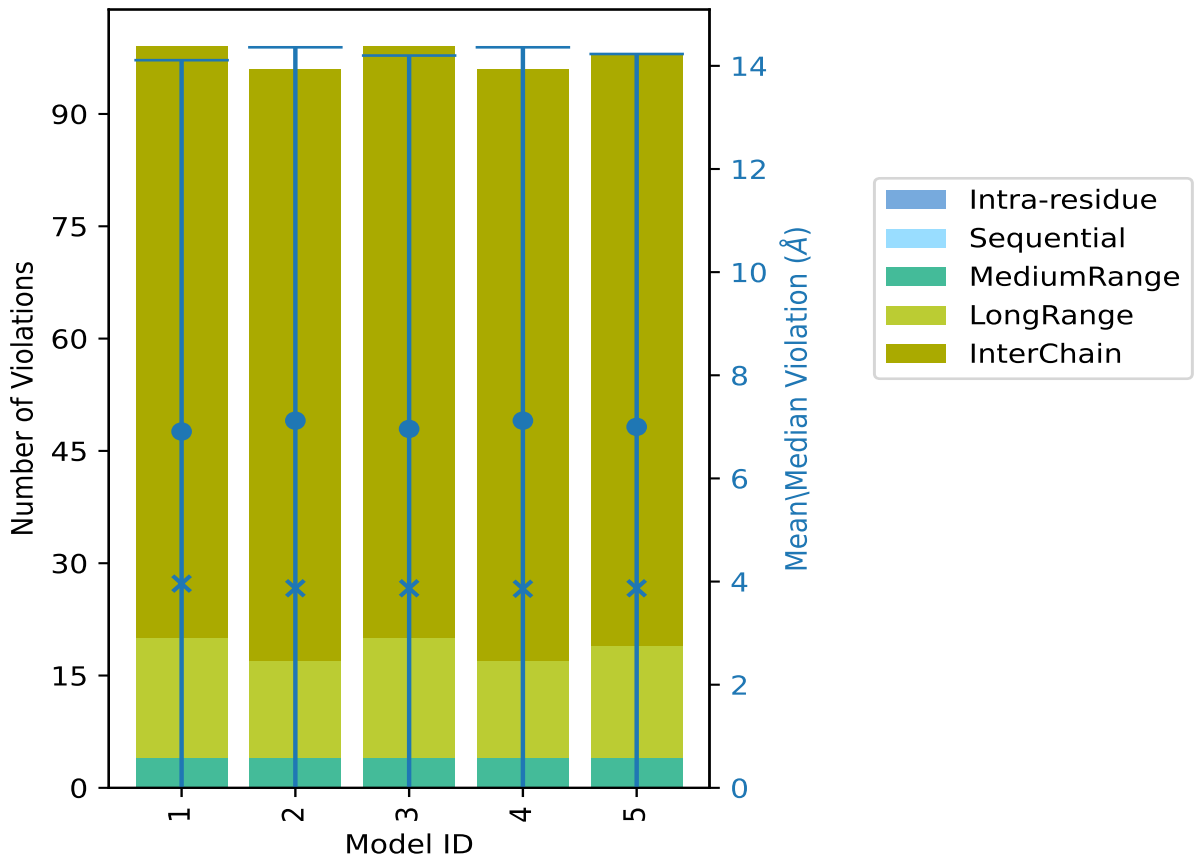
9.2 Distance violation statistics for each model

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD[6] (Å)	Median (Å)
	IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total				
1	0	0	4	16	79	99	6.91	34.38	7.2	3.96
2	0	0	4	13	79	96	7.12	34.43	7.24	3.87
3	0	0	4	16	79	99	6.96	34.51	7.24	3.87
4	0	0	4	13	79	96	7.12	34.39	7.24	3.86
5	0	0	4	15	79	98	7.0	34.42	7.23	3.87

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

9.2.1 Bar graph : Distance Violation statistics for each model



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

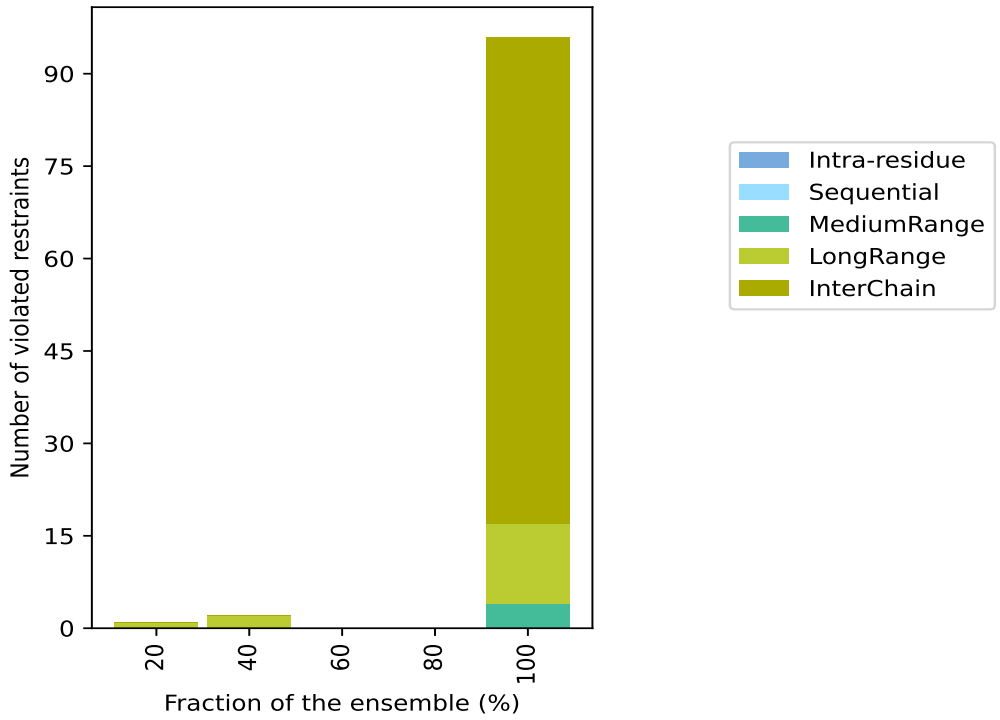
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 334(IR:143, SQ:53, MR:31, LR:91, IC:16) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR[1]	SQ[2]	MR[3]	LR[4]	IC[5]	Total	Count[6]	%
0	0	0	1	0	1	1	20.0
0	0	0	2	0	2	2	40.0
0	0	0	0	0	0	3	60.0
0	0	0	0	0	0	4	80.0
0	0	4	13	79	96	5	100.0

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

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

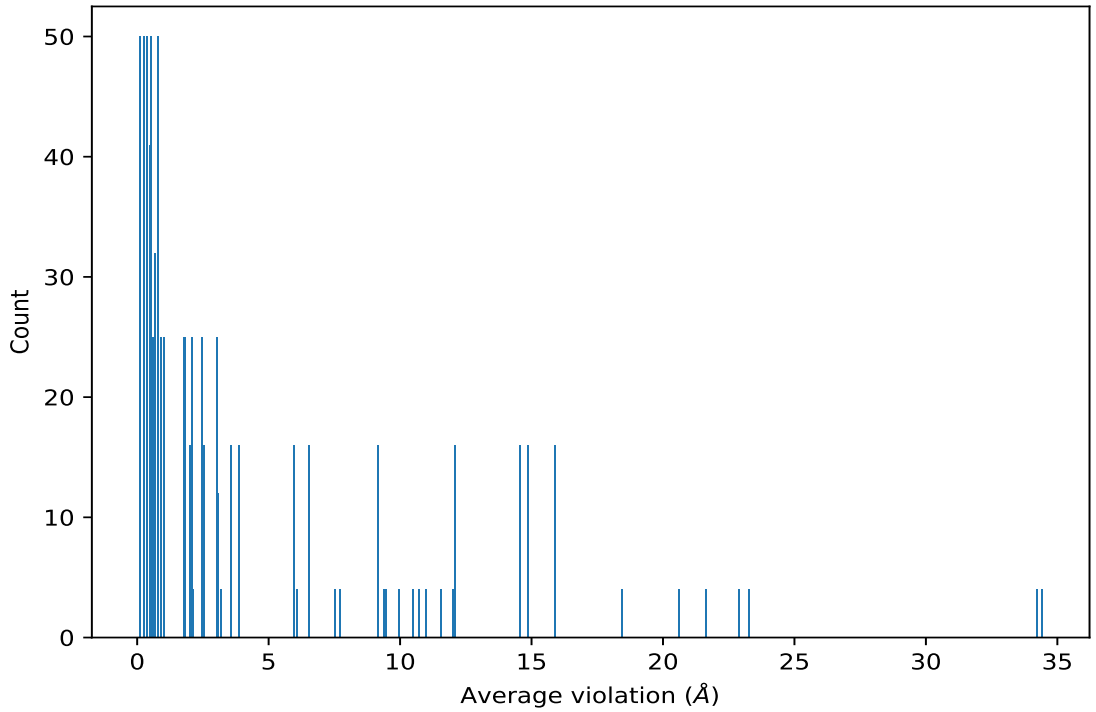
9.3.1 Bar graph : Distance violation statistics for the ensemble



9.4 Most violated distance restraints in the ensemble

9.4.1 Histogram : Distribution of mean distance violations

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



9.4.2 Table: Most violated distance restraints (i)

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

Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	5	34.43	0.05	34.42
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	5	34.43	0.05	34.42
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	5	34.43	0.05	34.42
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	5	34.43	0.05	34.42
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	5	34.2	0.02	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	5	34.2	0.02	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	5	34.2	0.02	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	5	34.2	0.02	34.22
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	5	23.25	0.07	23.27
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	5	23.25	0.07	23.27
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	5	23.25	0.07	23.27
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	5	23.25	0.07	23.27
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	5	22.86	0.03	22.87
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	5	22.86	0.03	22.87
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	5	22.86	0.03	22.87
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	5	22.86	0.03	22.87

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	5	21.6	0.09	21.58
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	5	21.6	0.09	21.58
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	5	21.6	0.09	21.58
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	5	21.6	0.09	21.58
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	5	20.65	0.09	20.64
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	5	20.65	0.09	20.64
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	5	20.65	0.09	20.64
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	5	20.65	0.09	20.64
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	5	18.43	0.03	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	5	18.43	0.03	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	5	18.43	0.03	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	5	18.43	0.03	18.45
(3,82)	1:B:88:ASP:CA	1:A:14:GLN:CB	5	15.88	0.0	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,83)	1:B:88:ASP:CA	1:A:14:GLN:CB	5	15.88	0.0	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,84)	1:B:88:ASP:CA	1:A:14:GLN:CB	5	15.88	0.0	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,85)	1:B:88:ASP:CA	1:A:14:GLN:CB	5	15.88	0.0	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88	0.0	15.88
(3,2)	1:B:12:SER:CB	1:A:87:ILE:CB	5	14.89	0.0	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,3)	1:B:12:SER:CB	1:A:87:ILE:CB	5	14.89	0.0	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,4)	1:B:12:SER:CB	1:A:87:ILE:CB	5	14.89	0.0	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,5)	1:B:12:SER:CB	1:A:87:ILE:CB	5	14.89	0.0	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89	0.0	14.89
(3,7)	1:B:12:SER:CB	1:A:87:ILE:CD1	5	14.59	0.02	14.59
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,8)	1:B:12:SER:CB	1:A:87:ILE:CD1	5	14.59	0.02	14.59
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,9)	1:B:12:SER:CB	1:A:87:ILE:CD1	5	14.59	0.02	14.59
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,10)	1:B:12:SER:CB	1:A:87:ILE:CD1	5	14.59	0.02	14.59
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.59	0.02	14.59
(3,92)	1:B:89:THR:CB	1:A:10:VAL:C	5	12.09	0.0	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,93)	1:B:89:THR:CB	1:A:10:VAL:C	5	12.09	0.0	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,94)	1:B:89:THR:CB	1:A:10:VAL:C	5	12.09	0.0	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,95)	1:B:89:THR:CB	1:A:10:VAL:C	5	12.09	0.0	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09	0.0	12.09
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	5	12.01	0.06	11.99
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	5	12.01	0.06	11.99
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	5	12.01	0.06	11.99
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	5	12.01	0.06	11.99
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	5	11.58	0.18	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	5	11.58	0.18	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	5	11.58	0.18	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	5	11.58	0.18	11.54

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	5	10.99	0.17	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	5	10.99	0.17	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	5	10.99	0.17	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	5	10.99	0.17	10.95
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	5	10.72	0.09	10.7
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	5	10.72	0.09	10.7
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	5	10.72	0.09	10.7
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	5	10.72	0.09	10.7
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	5	10.48	0.16	10.45
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	5	10.48	0.16	10.45
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	5	10.48	0.16	10.45
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	5	10.48	0.16	10.45
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	5	9.99	0.1	9.96
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	5	9.99	0.1	9.96
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	5	9.99	0.1	9.96
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	5	9.99	0.1	9.96
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	5	9.48	0.15	9.44
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	5	9.48	0.15	9.44
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	5	9.48	0.15	9.44
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	5	9.48	0.15	9.44
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	5	9.35	0.17	9.31
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	5	9.35	0.17	9.31
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	5	9.35	0.17	9.31
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	5	9.35	0.17	9.31
(3,87)	1:B:89:THR:CB	1:A:9:THR:C	5	9.17	0.0	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,88)	1:B:89:THR:CB	1:A:9:THR:C	5	9.17	0.0	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,89)	1:B:89:THR:CB	1:A:9:THR:C	5	9.17	0.0	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,90)	1:B:89:THR:CB	1:A:9:THR:C	5	9.17	0.0	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17	0.0	9.17
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	5	7.74	0.17	7.71
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	5	7.74	0.17	7.71

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	5	7.74	0.17	7.71
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	5	7.74	0.17	7.71
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	5	7.52	0.18	7.49
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	5	7.52	0.18	7.49
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	5	7.52	0.18	7.49
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	5	7.52	0.18	7.49
(3,17)	1:B:15:LYS:CA	1:A:84:VAL:CB	5	6.54	0.0	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,18)	1:B:15:LYS:CA	1:A:84:VAL:CB	5	6.54	0.0	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,19)	1:B:15:LYS:CA	1:A:84:VAL:CB	5	6.54	0.0	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,20)	1:B:15:LYS:CA	1:A:84:VAL:CB	5	6.54	0.0	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54	0.0	6.54
(3,35)	1:B:71:ILE:CA	1:A:16:GLU:CD	5	6.09	0.04	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	6.09	0.04	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	6.09	0.04	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	6.09	0.04	6.07
(3,12)	1:B:15:LYS:CA	1:A:84:VAL:CA	5	5.98	0.0	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,13)	1:B:15:LYS:CA	1:A:84:VAL:CA	5	5.98	0.0	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,14)	1:B:15:LYS:CA	1:A:84:VAL:CA	5	5.98	0.0	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,15)	1:B:15:LYS:CA	1:A:84:VAL:CA	5	5.98	0.0	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98	0.0	5.98

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,37)	1:B:71:ILE:CB	1:A:16:GLU:CD	5	3.89	0.04	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,38)	1:B:71:ILE:CB	1:A:16:GLU:CD	5	3.89	0.04	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,39)	1:B:71:ILE:CB	1:A:16:GLU:CD	5	3.89	0.04	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,40)	1:B:71:ILE:CB	1:A:16:GLU:CD	5	3.89	0.04	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.89	0.04	3.87
(3,42)	1:B:71:ILE:CA	1:A:16:GLU:CA	5	3.58	0.0	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,43)	1:B:71:ILE:CA	1:A:16:GLU:CA	5	3.58	0.0	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,44)	1:B:71:ILE:CA	1:A:16:GLU:CA	5	3.58	0.0	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,45)	1:B:71:ILE:CA	1:A:16:GLU:CA	5	3.58	0.0	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.58	0.0	3.58
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	5	3.16	0.19	3.12
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	5	3.16	0.19	3.12
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	5	3.16	0.19	3.12
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	5	3.16	0.19	3.12
(3,32)	1:B:71:ILE:CA	1:A:16:GLU:CD	5	3.09	0.04	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.09	0.04	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.09	0.04	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.09	0.04	3.07
(3,33)	1:B:71:ILE:CA	1:A:16:GLU:CD	5	3.09	0.04	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.09	0.04	3.07

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.09	0.04	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.09	0.04	3.07
(3,34)	1:B:71:ILE:CA	1:A:16:GLU:CD	5	3.09	0.04	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.09	0.04	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.09	0.04	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.09	0.04	3.07
(1,226)	1:A:10:VAL:CB	1:A:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:A:10:VAL:CB	1:B:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:A:10:VAL:CB	1:C:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:A:10:VAL:CB	1:D:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:A:10:VAL:CB	1:E:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:B:10:VAL:CB	1:A:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:B:10:VAL:CB	1:B:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:B:10:VAL:CB	1:C:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:B:10:VAL:CB	1:D:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:B:10:VAL:CB	1:E:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:C:10:VAL:CB	1:A:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:C:10:VAL:CB	1:B:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:C:10:VAL:CB	1:C:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:C:10:VAL:CB	1:D:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:C:10:VAL:CB	1:E:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:D:10:VAL:CB	1:A:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:D:10:VAL:CB	1:B:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:D:10:VAL:CB	1:C:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:D:10:VAL:CB	1:D:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:D:10:VAL:CB	1:E:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:E:10:VAL:CB	1:A:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:E:10:VAL:CB	1:B:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:E:10:VAL:CB	1:C:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:E:10:VAL:CB	1:D:47:VAL:CG2	5	3.04	0.02	3.04
(1,226)	1:E:10:VAL:CB	1:E:47:VAL:CG2	5	3.04	0.02	3.04
(3,72)	1:B:84:VAL:CA	1:A:19:LEU:CB	5	2.52	0.0	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,73)	1:B:84:VAL:CA	1:A:19:LEU:CB	5	2.52	0.0	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,74)	1:B:84:VAL:CA	1:A:19:LEU:CB	5	2.52	0.0	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,75)	1:B:84:VAL:CA	1:A:19:LEU:CB	5	2.52	0.0	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52	0.0	2.52
(1,163)	1:A:23:LYS:CE	1:A:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:A:23:LYS:CE	1:B:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:A:23:LYS:CE	1:C:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:A:23:LYS:CE	1:D:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:A:23:LYS:CE	1:E:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:B:23:LYS:CE	1:A:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:B:23:LYS:CE	1:B:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:B:23:LYS:CE	1:C:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:B:23:LYS:CE	1:D:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:B:23:LYS:CE	1:E:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:C:23:LYS:CE	1:A:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:C:23:LYS:CE	1:B:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:C:23:LYS:CE	1:C:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:C:23:LYS:CE	1:D:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:C:23:LYS:CE	1:E:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:D:23:LYS:CE	1:A:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:D:23:LYS:CE	1:B:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:D:23:LYS:CE	1:C:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:D:23:LYS:CE	1:D:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:D:23:LYS:CE	1:E:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:E:23:LYS:CE	1:A:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:E:23:LYS:CE	1:B:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:E:23:LYS:CE	1:C:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:E:23:LYS:CE	1:D:19:LEU:CG	5	2.46	0.03	2.46
(1,163)	1:E:23:LYS:CE	1:E:19:LEU:CG	5	2.46	0.03	2.46
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	5	2.11	0.19	2.07
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	5	2.11	0.19	2.07
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	5	2.11	0.19	2.07
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	5	2.11	0.19	2.07
(1,224)	1:A:10:VAL:CB	1:A:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:A:10:VAL:CB	1:B:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:A:10:VAL:CB	1:C:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:A:10:VAL:CB	1:D:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:A:10:VAL:CB	1:E:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:B:10:VAL:CB	1:A:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:B:10:VAL:CB	1:B:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:B:10:VAL:CB	1:C:47:VAL:CB	5	2.07	0.0	2.07

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,224)	1:B:10:VAL:CB	1:D:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:B:10:VAL:CB	1:E:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:C:10:VAL:CB	1:A:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:C:10:VAL:CB	1:B:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:C:10:VAL:CB	1:C:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:C:10:VAL:CB	1:D:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:C:10:VAL:CB	1:E:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:D:10:VAL:CB	1:A:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:D:10:VAL:CB	1:B:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:D:10:VAL:CB	1:C:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:D:10:VAL:CB	1:D:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:D:10:VAL:CB	1:E:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:E:10:VAL:CB	1:A:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:E:10:VAL:CB	1:B:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:E:10:VAL:CB	1:C:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:E:10:VAL:CB	1:D:47:VAL:CB	5	2.07	0.0	2.07
(1,224)	1:E:10:VAL:CB	1:E:47:VAL:CB	5	2.07	0.0	2.07
(3,77)	1:B:84:VAL:CA	1:A:19:LEU:CG	5	2.03	0.01	2.03
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,78)	1:B:84:VAL:CA	1:A:19:LEU:CG	5	2.03	0.01	2.03
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,79)	1:B:84:VAL:CA	1:A:19:LEU:CG	5	2.03	0.01	2.03
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,80)	1:B:84:VAL:CA	1:A:19:LEU:CG	5	2.03	0.01	2.03
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.03	0.01	2.03
(1,225)	1:A:10:VAL:CB	1:A:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:A:10:VAL:CB	1:B:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:A:10:VAL:CB	1:C:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:A:10:VAL:CB	1:D:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:A:10:VAL:CB	1:E:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:B:10:VAL:CB	1:A:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:B:10:VAL:CB	1:B:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:B:10:VAL:CB	1:C:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:B:10:VAL:CB	1:D:47:VAL:CG1	5	1.82	0.07	1.84

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,225)	1:B:10:VAL:CB	1:E:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:C:10:VAL:CB	1:A:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:C:10:VAL:CB	1:B:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:C:10:VAL:CB	1:C:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:C:10:VAL:CB	1:D:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:C:10:VAL:CB	1:E:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:D:10:VAL:CB	1:A:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:D:10:VAL:CB	1:B:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:D:10:VAL:CB	1:C:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:D:10:VAL:CB	1:D:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:D:10:VAL:CB	1:E:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:E:10:VAL:CB	1:A:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:E:10:VAL:CB	1:B:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:E:10:VAL:CB	1:C:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:E:10:VAL:CB	1:D:47:VAL:CG1	5	1.82	0.07	1.84
(1,225)	1:E:10:VAL:CB	1:E:47:VAL:CG1	5	1.82	0.07	1.84
(1,228)	1:A:13:THR:CB	1:A:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:A:13:THR:CB	1:B:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:A:13:THR:CB	1:C:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:A:13:THR:CB	1:D:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:A:13:THR:CB	1:E:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:B:13:THR:CB	1:A:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:B:13:THR:CB	1:B:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:B:13:THR:CB	1:C:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:B:13:THR:CB	1:D:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:B:13:THR:CB	1:E:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:C:13:THR:CB	1:A:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:C:13:THR:CB	1:B:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:C:13:THR:CB	1:C:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:C:13:THR:CB	1:D:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:C:13:THR:CB	1:E:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:D:13:THR:CB	1:A:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:D:13:THR:CB	1:B:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:D:13:THR:CB	1:C:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:D:13:THR:CB	1:D:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:D:13:THR:CB	1:E:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:E:13:THR:CB	1:A:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:E:13:THR:CB	1:B:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:E:13:THR:CB	1:C:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:E:13:THR:CB	1:D:19:LEU:CG	5	1.75	0.0	1.75
(1,228)	1:E:13:THR:CB	1:E:19:LEU:CG	5	1.75	0.0	1.75
(1,289)	1:A:80:ASP:CA	1:A:72:ILE:CG1	5	1.01	0.01	1.01

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,289)	1:A:80:ASP:CA	1:B:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:A:80:ASP:CA	1:C:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:A:80:ASP:CA	1:D:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:A:80:ASP:CA	1:E:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:B:80:ASP:CA	1:A:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:B:80:ASP:CA	1:B:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:B:80:ASP:CA	1:C:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:B:80:ASP:CA	1:D:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:B:80:ASP:CA	1:E:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:C:80:ASP:CA	1:A:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:C:80:ASP:CA	1:B:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:C:80:ASP:CA	1:C:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:C:80:ASP:CA	1:D:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:C:80:ASP:CA	1:E:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:D:80:ASP:CA	1:A:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:D:80:ASP:CA	1:B:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:D:80:ASP:CA	1:C:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:D:80:ASP:CA	1:D:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:D:80:ASP:CA	1:E:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:E:80:ASP:CA	1:A:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:E:80:ASP:CA	1:B:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:E:80:ASP:CA	1:C:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:E:80:ASP:CA	1:D:72:ILE:CG1	5	1.01	0.01	1.01
(1,289)	1:E:80:ASP:CA	1:E:72:ILE:CG1	5	1.01	0.01	1.01
(3,47)	1:B:71:ILE:CA	1:A:19:LEU:CB	5	0.69	0.0	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,48)	1:B:71:ILE:CA	1:A:19:LEU:CB	5	0.69	0.0	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,49)	1:B:71:ILE:CA	1:A:19:LEU:CB	5	0.69	0.0	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,50)	1:B:71:ILE:CA	1:A:19:LEU:CB	5	0.69	0.0	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69	0.0	0.69
(3,52)	1:B:71:ILE:CA	1:A:19:LEU:CG	5	0.65	0.0	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,53)	1:B:71:ILE:CA	1:A:19:LEU:CG	5	0.65	0.0	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,54)	1:B:71:ILE:CA	1:A:19:LEU:CG	5	0.65	0.0	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,55)	1:B:71:ILE:CA	1:A:19:LEU:CG	5	0.65	0.0	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65	0.0	0.65
(1,215)	1:A:10:VAL:CA	1:A:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:A:10:VAL:CA	1:B:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:A:10:VAL:CA	1:C:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:A:10:VAL:CA	1:D:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:A:10:VAL:CA	1:E:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:B:10:VAL:CA	1:A:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:B:10:VAL:CA	1:B:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:B:10:VAL:CA	1:C:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:B:10:VAL:CA	1:D:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:B:10:VAL:CA	1:E:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:C:10:VAL:CA	1:A:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:C:10:VAL:CA	1:B:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:C:10:VAL:CA	1:C:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:C:10:VAL:CA	1:D:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:C:10:VAL:CA	1:E:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:D:10:VAL:CA	1:A:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:D:10:VAL:CA	1:B:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:D:10:VAL:CA	1:C:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:D:10:VAL:CA	1:D:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:D:10:VAL:CA	1:E:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:E:10:VAL:CA	1:A:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:E:10:VAL:CA	1:B:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:E:10:VAL:CA	1:C:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:E:10:VAL:CA	1:D:15:LYS:CA	5	0.61	0.0	0.61
(1,215)	1:E:10:VAL:CA	1:E:15:LYS:CA	5	0.61	0.0	0.61
(1,258)	1:A:50:ASP:CA	1:A:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:A:50:ASP:CA	1:B:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:A:50:ASP:CA	1:C:86:ILE:CG1	5	0.57	0.03	0.57

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,258)	1:A:50:ASP:CA	1:D:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:A:50:ASP:CA	1:E:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:B:50:ASP:CA	1:A:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:B:50:ASP:CA	1:B:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:B:50:ASP:CA	1:C:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:B:50:ASP:CA	1:D:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:B:50:ASP:CA	1:E:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:C:50:ASP:CA	1:A:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:C:50:ASP:CA	1:B:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:C:50:ASP:CA	1:C:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:C:50:ASP:CA	1:D:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:C:50:ASP:CA	1:E:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:D:50:ASP:CA	1:A:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:D:50:ASP:CA	1:B:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:D:50:ASP:CA	1:C:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:D:50:ASP:CA	1:D:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:D:50:ASP:CA	1:E:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:E:50:ASP:CA	1:A:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:E:50:ASP:CA	1:B:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:E:50:ASP:CA	1:C:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:E:50:ASP:CA	1:D:86:ILE:CG1	5	0.57	0.03	0.57
(1,258)	1:E:50:ASP:CA	1:E:86:ILE:CG1	5	0.57	0.03	0.57
(1,245)	1:A:48:ALA:CA	1:A:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:A:48:ALA:CA	1:B:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:A:48:ALA:CA	1:C:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:A:48:ALA:CA	1:D:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:A:48:ALA:CA	1:E:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:B:48:ALA:CA	1:A:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:B:48:ALA:CA	1:B:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:B:48:ALA:CA	1:C:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:B:48:ALA:CA	1:D:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:B:48:ALA:CA	1:E:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:C:48:ALA:CA	1:A:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:C:48:ALA:CA	1:B:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:C:48:ALA:CA	1:C:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:C:48:ALA:CA	1:D:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:C:48:ALA:CA	1:E:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:D:48:ALA:CA	1:A:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:D:48:ALA:CA	1:B:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:D:48:ALA:CA	1:C:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:D:48:ALA:CA	1:D:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:D:48:ALA:CA	1:E:5:ARG:CB	5	0.52	0.0	0.52

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,245)	1:E:48:ALA:CA	1:A:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:E:48:ALA:CA	1:B:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:E:48:ALA:CA	1:C:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:E:48:ALA:CA	1:D:5:ARG:CB	5	0.52	0.0	0.52
(1,245)	1:E:48:ALA:CA	1:E:5:ARG:CB	5	0.52	0.0	0.52
(1,216)	1:A:13:THR:CB	1:A:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:A:13:THR:CB	1:B:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:A:13:THR:CB	1:C:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:A:13:THR:CB	1:D:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:A:13:THR:CB	1:E:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:B:13:THR:CB	1:A:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:B:13:THR:CB	1:B:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:B:13:THR:CB	1:C:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:B:13:THR:CB	1:D:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:B:13:THR:CB	1:E:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:C:13:THR:CB	1:A:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:C:13:THR:CB	1:B:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:C:13:THR:CB	1:C:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:C:13:THR:CB	1:D:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:C:13:THR:CB	1:E:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:D:13:THR:CB	1:A:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:D:13:THR:CB	1:B:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:D:13:THR:CB	1:C:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:D:13:THR:CB	1:D:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:D:13:THR:CB	1:E:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:E:13:THR:CB	1:A:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:E:13:THR:CB	1:B:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:E:13:THR:CB	1:C:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:E:13:THR:CB	1:D:17:ASP:CA	5	0.5	0.0	0.5
(1,216)	1:E:13:THR:CB	1:E:17:ASP:CA	5	0.5	0.0	0.5
(3,67)	1:B:83:VAL:CA	1:A:19:LEU:CG	5	0.48	0.01	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,68)	1:B:83:VAL:CA	1:A:19:LEU:CG	5	0.48	0.01	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,69)	1:B:83:VAL:CA	1:A:19:LEU:CG	5	0.48	0.01	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(3,70)	1:B:83:VAL:CA	1:A:19:LEU:CG	5	0.48	0.01	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48	0.01	0.49
(1,271)	1:A:59:TRP:CA	1:A:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:A:59:TRP:CA	1:B:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:A:59:TRP:CA	1:C:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:A:59:TRP:CA	1:D:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:A:59:TRP:CA	1:E:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:B:59:TRP:CA	1:A:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:B:59:TRP:CA	1:B:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:B:59:TRP:CA	1:C:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:B:59:TRP:CA	1:D:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:B:59:TRP:CA	1:E:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:C:59:TRP:CA	1:A:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:C:59:TRP:CA	1:B:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:C:59:TRP:CA	1:C:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:C:59:TRP:CA	1:D:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:C:59:TRP:CA	1:E:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:D:59:TRP:CA	1:A:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:D:59:TRP:CA	1:B:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:D:59:TRP:CA	1:C:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:D:59:TRP:CA	1:D:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:D:59:TRP:CA	1:E:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:E:59:TRP:CA	1:A:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:E:59:TRP:CA	1:B:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:E:59:TRP:CA	1:C:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:E:59:TRP:CA	1:D:88:ASP:CB	5	0.45	0.0	0.45
(1,271)	1:E:59:TRP:CA	1:E:88:ASP:CB	5	0.45	0.0	0.45
(2,49)	1:A:50:ASP:OD1	1:A:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:A:50:ASP:OD1	1:B:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:A:50:ASP:OD1	1:C:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:A:50:ASP:OD1	1:D:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:A:50:ASP:OD1	1:E:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:B:50:ASP:OD1	1:A:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:B:50:ASP:OD1	1:B:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:B:50:ASP:OD1	1:C:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:B:50:ASP:OD1	1:D:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:B:50:ASP:OD1	1:E:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:C:50:ASP:OD1	1:A:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:C:50:ASP:OD1	1:B:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:C:50:ASP:OD1	1:C:53:GLY:N	5	0.38	0.01	0.38

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,49)	1:C:50:ASP:OD1	1:D:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:C:50:ASP:OD1	1:E:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:D:50:ASP:OD1	1:A:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:D:50:ASP:OD1	1:B:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:D:50:ASP:OD1	1:C:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:D:50:ASP:OD1	1:D:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:D:50:ASP:OD1	1:E:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:E:50:ASP:OD1	1:A:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:E:50:ASP:OD1	1:B:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:E:50:ASP:OD1	1:C:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:E:50:ASP:OD1	1:D:53:GLY:N	5	0.38	0.01	0.38
(2,49)	1:E:50:ASP:OD1	1:E:53:GLY:N	5	0.38	0.01	0.38
(2,52)	1:A:53:GLY:N	1:A:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:A:53:GLY:N	1:B:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:A:53:GLY:N	1:C:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:A:53:GLY:N	1:D:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:A:53:GLY:N	1:E:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:B:53:GLY:N	1:A:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:B:53:GLY:N	1:B:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:B:53:GLY:N	1:C:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:B:53:GLY:N	1:D:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:B:53:GLY:N	1:E:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:C:53:GLY:N	1:A:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:C:53:GLY:N	1:B:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:C:53:GLY:N	1:C:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:C:53:GLY:N	1:D:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:C:53:GLY:N	1:E:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:D:53:GLY:N	1:A:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:D:53:GLY:N	1:B:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:D:53:GLY:N	1:C:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:D:53:GLY:N	1:D:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:D:53:GLY:N	1:E:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:E:53:GLY:N	1:A:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:E:53:GLY:N	1:B:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:E:53:GLY:N	1:C:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:E:53:GLY:N	1:D:50:ASP:OD1	5	0.38	0.01	0.38
(2,52)	1:E:53:GLY:N	1:E:50:ASP:OD1	5	0.38	0.01	0.38
(1,278)	1:A:65:GLY:CA	1:A:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:A:65:GLY:CA	1:B:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:A:65:GLY:CA	1:C:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:A:65:GLY:CA	1:D:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:A:65:GLY:CA	1:E:71:ILE:CA	5	0.28	0.0	0.28

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,278)	1:B:65:GLY:CA	1:A:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:B:65:GLY:CA	1:B:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:B:65:GLY:CA	1:C:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:B:65:GLY:CA	1:D:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:B:65:GLY:CA	1:E:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:C:65:GLY:CA	1:A:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:C:65:GLY:CA	1:B:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:C:65:GLY:CA	1:C:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:C:65:GLY:CA	1:D:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:C:65:GLY:CA	1:E:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:D:65:GLY:CA	1:A:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:D:65:GLY:CA	1:B:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:D:65:GLY:CA	1:C:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:D:65:GLY:CA	1:D:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:D:65:GLY:CA	1:E:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:E:65:GLY:CA	1:A:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:E:65:GLY:CA	1:B:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:E:65:GLY:CA	1:C:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:E:65:GLY:CA	1:D:71:ILE:CA	5	0.28	0.0	0.28
(1,278)	1:E:65:GLY:CA	1:E:71:ILE:CA	5	0.28	0.0	0.28
(1,291)	1:A:82:ALA:CA	1:A:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:A:82:ALA:CA	1:B:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:A:82:ALA:CA	1:C:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:A:82:ALA:CA	1:D:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:A:82:ALA:CA	1:E:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:B:82:ALA:CA	1:A:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:B:82:ALA:CA	1:B:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:B:82:ALA:CA	1:C:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:B:82:ALA:CA	1:D:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:B:82:ALA:CA	1:E:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:C:82:ALA:CA	1:A:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:C:82:ALA:CA	1:B:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:C:82:ALA:CA	1:C:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:C:82:ALA:CA	1:D:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:C:82:ALA:CA	1:E:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:D:82:ALA:CA	1:A:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:D:82:ALA:CA	1:B:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:D:82:ALA:CA	1:C:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:D:82:ALA:CA	1:D:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:D:82:ALA:CA	1:E:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:E:82:ALA:CA	1:A:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:E:82:ALA:CA	1:B:24:PHE:CB	5	0.27	0.0	0.27

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,291)	1:E:82:ALA:CA	1:C:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:E:82:ALA:CA	1:D:24:PHE:CB	5	0.27	0.0	0.27
(1,291)	1:E:82:ALA:CA	1:E:24:PHE:CB	5	0.27	0.0	0.27
(1,242)	1:A:48:ALA:CA	1:A:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:A:48:ALA:CA	1:B:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:A:48:ALA:CA	1:C:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:A:48:ALA:CA	1:D:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:A:48:ALA:CA	1:E:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:B:48:ALA:CA	1:A:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:B:48:ALA:CA	1:B:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:B:48:ALA:CA	1:C:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:B:48:ALA:CA	1:D:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:B:48:ALA:CA	1:E:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:C:48:ALA:CA	1:A:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:C:48:ALA:CA	1:B:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:C:48:ALA:CA	1:C:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:C:48:ALA:CA	1:D:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:C:48:ALA:CA	1:E:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:D:48:ALA:CA	1:A:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:D:48:ALA:CA	1:B:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:D:48:ALA:CA	1:C:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:D:48:ALA:CA	1:D:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:D:48:ALA:CA	1:E:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:E:48:ALA:CA	1:A:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:E:48:ALA:CA	1:B:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:E:48:ALA:CA	1:C:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:E:48:ALA:CA	1:D:60:VAL:CB	5	0.12	0.0	0.12
(1,242)	1:E:48:ALA:CA	1:E:60:VAL:CB	5	0.12	0.0	0.12
(1,306)	1:A:86:ILE:CA	1:A:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:A:86:ILE:CA	1:B:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:A:86:ILE:CA	1:C:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:A:86:ILE:CA	1:D:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:A:86:ILE:CA	1:E:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:B:86:ILE:CA	1:A:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:B:86:ILE:CA	1:B:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:B:86:ILE:CA	1:C:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:B:86:ILE:CA	1:D:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:B:86:ILE:CA	1:E:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:C:86:ILE:CA	1:A:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:C:86:ILE:CA	1:B:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:C:86:ILE:CA	1:C:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:C:86:ILE:CA	1:D:4:ALA:CA	5	0.11	0.0	0.11

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(1,306)	1:C:86:ILE:CA	1:E:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:D:86:ILE:CA	1:A:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:D:86:ILE:CA	1:B:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:D:86:ILE:CA	1:C:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:D:86:ILE:CA	1:D:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:D:86:ILE:CA	1:E:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:E:86:ILE:CA	1:A:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:E:86:ILE:CA	1:B:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:E:86:ILE:CA	1:C:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:E:86:ILE:CA	1:D:4:ALA:CA	5	0.11	0.0	0.11
(1,306)	1:E:86:ILE:CA	1:E:4:ALA:CA	5	0.11	0.0	0.11
(2,23)	1:A:18:THR:O	1:A:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:A:18:THR:O	1:B:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:A:18:THR:O	1:C:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:A:18:THR:O	1:D:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:A:18:THR:O	1:E:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:B:18:THR:O	1:A:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:B:18:THR:O	1:B:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:B:18:THR:O	1:C:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:B:18:THR:O	1:D:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:B:18:THR:O	1:E:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:C:18:THR:O	1:A:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:C:18:THR:O	1:B:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:C:18:THR:O	1:C:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:C:18:THR:O	1:D:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:C:18:THR:O	1:E:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:D:18:THR:O	1:A:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:D:18:THR:O	1:B:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:D:18:THR:O	1:C:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:D:18:THR:O	1:D:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:D:18:THR:O	1:E:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:E:18:THR:O	1:A:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:E:18:THR:O	1:B:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:E:18:THR:O	1:C:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:E:18:THR:O	1:D:77:LYS:NZ	3	0.92	0.31	1.09
(2,23)	1:E:18:THR:O	1:E:77:LYS:NZ	3	0.92	0.31	1.09
(2,41)	1:A:46:GLU:OE2	1:A:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:A:46:GLU:OE2	1:B:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:A:46:GLU:OE2	1:C:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:A:46:GLU:OE2	1:D:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:A:46:GLU:OE2	1:E:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:B:46:GLU:OE2	1:A:64:ARG:NH1	2	0.76	0.21	0.76

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Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,41)	1:B:46:GLU:OE2	1:B:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:B:46:GLU:OE2	1:C:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:B:46:GLU:OE2	1:D:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:B:46:GLU:OE2	1:E:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:C:46:GLU:OE2	1:A:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:C:46:GLU:OE2	1:B:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:C:46:GLU:OE2	1:C:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:C:46:GLU:OE2	1:D:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:C:46:GLU:OE2	1:E:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:D:46:GLU:OE2	1:A:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:D:46:GLU:OE2	1:B:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:D:46:GLU:OE2	1:C:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:D:46:GLU:OE2	1:D:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:D:46:GLU:OE2	1:E:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:E:46:GLU:OE2	1:A:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:E:46:GLU:OE2	1:B:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:E:46:GLU:OE2	1:C:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:E:46:GLU:OE2	1:D:64:ARG:NH1	2	0.76	0.21	0.76
(2,41)	1:E:46:GLU:OE2	1:E:64:ARG:NH1	2	0.76	0.21	0.76
(2,70)	1:A:64:ARG:NH1	1:A:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:A:64:ARG:NH1	1:B:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:A:64:ARG:NH1	1:C:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:A:64:ARG:NH1	1:D:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:A:64:ARG:NH1	1:E:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:B:64:ARG:NH1	1:A:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:B:64:ARG:NH1	1:B:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:B:64:ARG:NH1	1:C:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:B:64:ARG:NH1	1:D:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:B:64:ARG:NH1	1:E:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:C:64:ARG:NH1	1:A:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:C:64:ARG:NH1	1:B:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:C:64:ARG:NH1	1:C:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:C:64:ARG:NH1	1:D:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:C:64:ARG:NH1	1:E:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:D:64:ARG:NH1	1:A:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:D:64:ARG:NH1	1:B:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:D:64:ARG:NH1	1:C:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:D:64:ARG:NH1	1:D:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:D:64:ARG:NH1	1:E:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:E:64:ARG:NH1	1:A:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:E:64:ARG:NH1	1:B:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:E:64:ARG:NH1	1:C:46:GLU:OE2	2	0.76	0.21	0.76

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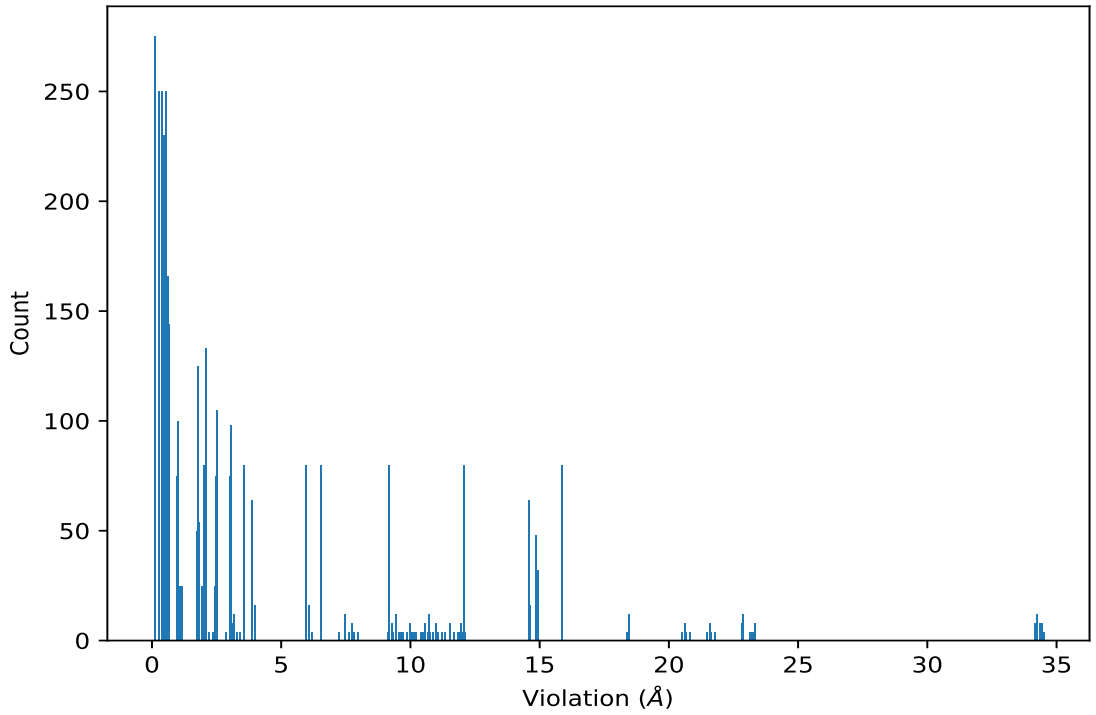
Key	Atom-1	Atom-2	Models[1]	Mean (Å)	SD[1] (Å)	Median (Å)
(2,70)	1:E:64:ARG:NH1	1:D:46:GLU:OE2	2	0.76	0.21	0.76
(2,70)	1:E:64:ARG:NH1	1:E:46:GLU:OE2	2	0.76	0.21	0.76

[1]Number of violated models, [2]Standard deviation

9.5 All violated distance restraints

9.5.1 Histogram : Distribution of distance violations

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

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)
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	3	34.51
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	3	34.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	3	34.51
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	3	34.51
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	2	34.43
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	2	34.43
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	2	34.43
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	2	34.43
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	5	34.42
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	5	34.42
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	5	34.42
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	5	34.42
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	4	34.39
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	4	34.39
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	4	34.39
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	4	34.39
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	1	34.38
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	1	34.38
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	1	34.38
(3,1)	1:A:12:SER:CB	1:B:87:ILE:CB	1	34.38
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	3	34.23
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	3	34.23
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	3	34.23
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	3	34.23
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	1	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	1	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	1	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	1	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	2	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	2	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	2	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	2	34.22
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	4	34.18
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	4	34.18
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	4	34.18
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	4	34.18
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	5	34.17
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	5	34.17
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	5	34.17
(3,6)	1:A:12:SER:CB	1:B:87:ILE:CD1	5	34.17
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	3	23.31
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	3	23.31
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	3	23.31
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	3	23.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	5	23.3
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	5	23.3
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	5	23.3
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	5	23.3
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	4	23.27
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	4	23.27
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	4	23.27
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	4	23.27
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	2	23.23
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	2	23.23
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	2	23.23
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	2	23.23
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	1	23.13
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	1	23.13
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	1	23.13
(3,86)	1:A:89:THR:CB	1:B:9:THR:C	1	23.13
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	4	22.89
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	4	22.89
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	4	22.89
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	4	22.89
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	5	22.88
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	5	22.88
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	5	22.88
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	5	22.88
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	3	22.87
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	3	22.87
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	3	22.87
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	3	22.87
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	2	22.84
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	2	22.84
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	2	22.84
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	2	22.84
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	1	22.81
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	1	22.81
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	1	22.81
(3,91)	1:A:89:THR:CB	1:B:10:VAL:C	1	22.81
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	3	21.75
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	3	21.75
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	3	21.75
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	3	21.75
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	5	21.62
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	5	21.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	5	21.62
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	5	21.62
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	2	21.58
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	2	21.58
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	2	21.58
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	2	21.58
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	4	21.55
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	4	21.55
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	4	21.55
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	4	21.55
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	1	21.48
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	1	21.48
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	1	21.48
(3,11)	1:A:15:LYS:CA	1:B:84:VAL:CA	1	21.48
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	3	20.81
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	3	20.81
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	3	20.81
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	3	20.81
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	5	20.68
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	5	20.68
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	5	20.68
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	5	20.68
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	2	20.64
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	2	20.64
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	2	20.64
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	2	20.64
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	4	20.6
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	4	20.6
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	4	20.6
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	4	20.6
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	1	20.53
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	1	20.53
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	1	20.53
(3,16)	1:A:15:LYS:CA	1:B:84:VAL:CB	1	20.53
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	3	18.46
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	3	18.46
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	3	18.46
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	3	18.46
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	4	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	4	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	4	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	4	18.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	5	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	5	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	5	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	5	18.45
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	1	18.4
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	1	18.4
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	1	18.4
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	1	18.4
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	2	18.39
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	2	18.39
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	2	18.39
(3,81)	1:A:88:ASP:CA	1:B:14:GLN:CB	2	18.39
(3,85)	1:B:88:ASP:CA	1:A:14:GLN:CB	1	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,85)	1:B:88:ASP:CA	1:A:14:GLN:CB	2	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,85)	1:B:88:ASP:CA	1:A:14:GLN:CB	3	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,85)	1:B:88:ASP:CA	1:A:14:GLN:CB	4	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,85)	1:B:88:ASP:CA	1:A:14:GLN:CB	5	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,85)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,84)	1:B:88:ASP:CA	1:A:14:GLN:CB	1	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,84)	1:B:88:ASP:CA	1:A:14:GLN:CB	2	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,84)	1:B:88:ASP:CA	1:A:14:GLN:CB	3	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,84)	1:B:88:ASP:CA	1:A:14:GLN:CB	4	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,84)	1:B:88:ASP:CA	1:A:14:GLN:CB	5	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,84)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,83)	1:B:88:ASP:CA	1:A:14:GLN:CB	1	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,83)	1:B:88:ASP:CA	1:A:14:GLN:CB	2	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,83)	1:B:88:ASP:CA	1:A:14:GLN:CB	3	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,83)	1:B:88:ASP:CA	1:A:14:GLN:CB	4	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,83)	1:B:88:ASP:CA	1:A:14:GLN:CB	5	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,83)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,82)	1:B:88:ASP:CA	1:A:14:GLN:CB	1	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	1	15.88
(3,82)	1:B:88:ASP:CA	1:A:14:GLN:CB	2	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	2	15.88
(3,82)	1:B:88:ASP:CA	1:A:14:GLN:CB	3	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	3	15.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,82)	1:B:88:ASP:CA	1:A:14:GLN:CB	4	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	4	15.88
(3,82)	1:B:88:ASP:CA	1:A:14:GLN:CB	5	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,82)	1:B:88:ASP:CA	1:B:14:GLN:CB	5	15.88
(3,5)	1:B:12:SER:CB	1:A:87:ILE:CB	1	14.9
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,5)	1:B:12:SER:CB	1:A:87:ILE:CB	4	14.9
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,4)	1:B:12:SER:CB	1:A:87:ILE:CB	1	14.9
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,4)	1:B:12:SER:CB	1:A:87:ILE:CB	4	14.9
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,3)	1:B:12:SER:CB	1:A:87:ILE:CB	1	14.9
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,3)	1:B:12:SER:CB	1:A:87:ILE:CB	4	14.9
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,2)	1:B:12:SER:CB	1:A:87:ILE:CB	1	14.9
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	1	14.9
(3,2)	1:B:12:SER:CB	1:A:87:ILE:CB	4	14.9
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	4	14.9
(3,5)	1:B:12:SER:CB	1:A:87:ILE:CB	2	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,5)	1:B:12:SER:CB	1:A:87:ILE:CB	3	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,5)	1:B:12:SER:CB	1:A:87:ILE:CB	5	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,5)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,4)	1:B:12:SER:CB	1:A:87:ILE:CB	2	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,4)	1:B:12:SER:CB	1:A:87:ILE:CB	3	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,4)	1:B:12:SER:CB	1:A:87:ILE:CB	5	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,4)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,3)	1:B:12:SER:CB	1:A:87:ILE:CB	2	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,3)	1:B:12:SER:CB	1:A:87:ILE:CB	3	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,3)	1:B:12:SER:CB	1:A:87:ILE:CB	5	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,3)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,2)	1:B:12:SER:CB	1:A:87:ILE:CB	2	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	2	14.89
(3,2)	1:B:12:SER:CB	1:A:87:ILE:CB	3	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	3	14.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,2)	1:B:12:SER:CB	1:A:87:ILE:CB	5	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,2)	1:B:12:SER:CB	1:B:87:ILE:CB	5	14.89
(3,9)	1:B:12:SER:CB	1:A:87:ILE:CD1	1	14.62
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,8)	1:B:12:SER:CB	1:A:87:ILE:CD1	1	14.62
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,7)	1:B:12:SER:CB	1:A:87:ILE:CD1	1	14.62
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,10)	1:B:12:SER:CB	1:A:87:ILE:CD1	1	14.62
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	1	14.62
(3,9)	1:B:12:SER:CB	1:A:87:ILE:CD1	2	14.59
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,9)	1:B:12:SER:CB	1:A:87:ILE:CD1	4	14.59
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,8)	1:B:12:SER:CB	1:A:87:ILE:CD1	2	14.59
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,8)	1:B:12:SER:CB	1:A:87:ILE:CD1	4	14.59
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,7)	1:B:12:SER:CB	1:A:87:ILE:CD1	2	14.59
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,7)	1:B:12:SER:CB	1:A:87:ILE:CD1	4	14.59
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,10)	1:B:12:SER:CB	1:A:87:ILE:CD1	2	14.59
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	2	14.59
(3,10)	1:B:12:SER:CB	1:A:87:ILE:CD1	4	14.59
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	4	14.59
(3,9)	1:B:12:SER:CB	1:A:87:ILE:CD1	5	14.58
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,8)	1:B:12:SER:CB	1:A:87:ILE:CD1	5	14.58
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,7)	1:B:12:SER:CB	1:A:87:ILE:CD1	5	14.58
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,10)	1:B:12:SER:CB	1:A:87:ILE:CD1	5	14.58
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	5	14.58
(3,9)	1:B:12:SER:CB	1:A:87:ILE:CD1	3	14.57
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,9)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,8)	1:B:12:SER:CB	1:A:87:ILE:CD1	3	14.57
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,8)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,7)	1:B:12:SER:CB	1:A:87:ILE:CD1	3	14.57
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,7)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,10)	1:B:12:SER:CB	1:A:87:ILE:CD1	3	14.57
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57
(3,10)	1:B:12:SER:CB	1:B:87:ILE:CD1	3	14.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	3	12.11
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	3	12.11
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	3	12.11
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	3	12.11
(3,95)	1:B:89:THR:CB	1:A:10:VAL:C	1	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,95)	1:B:89:THR:CB	1:A:10:VAL:C	2	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,95)	1:B:89:THR:CB	1:A:10:VAL:C	3	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,95)	1:B:89:THR:CB	1:A:10:VAL:C	4	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,95)	1:B:89:THR:CB	1:A:10:VAL:C	5	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,95)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,94)	1:B:89:THR:CB	1:A:10:VAL:C	1	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,94)	1:B:89:THR:CB	1:A:10:VAL:C	2	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,94)	1:B:89:THR:CB	1:A:10:VAL:C	3	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,94)	1:B:89:THR:CB	1:A:10:VAL:C	4	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,94)	1:B:89:THR:CB	1:A:10:VAL:C	5	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,94)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,93)	1:B:89:THR:CB	1:A:10:VAL:C	1	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,93)	1:B:89:THR:CB	1:A:10:VAL:C	2	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,93)	1:B:89:THR:CB	1:A:10:VAL:C	3	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,93)	1:B:89:THR:CB	1:A:10:VAL:C	4	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,93)	1:B:89:THR:CB	1:A:10:VAL:C	5	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,93)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,92)	1:B:89:THR:CB	1:A:10:VAL:C	1	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	1	12.09
(3,92)	1:B:89:THR:CB	1:A:10:VAL:C	2	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	2	12.09
(3,92)	1:B:89:THR:CB	1:A:10:VAL:C	3	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	3	12.09
(3,92)	1:B:89:THR:CB	1:A:10:VAL:C	4	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	4	12.09
(3,92)	1:B:89:THR:CB	1:A:10:VAL:C	5	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09
(3,92)	1:B:89:THR:CB	1:B:10:VAL:C	5	12.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	5	12.03
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	5	12.03
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	5	12.03
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	5	12.03
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	4	11.99
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	4	11.99
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	4	11.99
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	4	11.99
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	2	11.97
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	2	11.97
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	2	11.97
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	2	11.97
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	1	11.93
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	1	11.93
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	1	11.93
(3,66)	1:A:83:VAL:CA	1:B:19:LEU:CG	1	11.93
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	3	11.83
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	3	11.83
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	3	11.83
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	3	11.83
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	5	11.68
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	5	11.68
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	5	11.68
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	5	11.68
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	2	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	2	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	2	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	2	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	4	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	4	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	4	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	4	11.54
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	1	11.3
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	1	11.3
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	1	11.3
(3,46)	1:A:71:ILE:CA	1:B:19:LEU:CB	1	11.3
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	3	11.24
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	3	11.24
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	3	11.24
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	3	11.24
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	5	11.09
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	5	11.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	5	11.09
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	5	11.09
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	2	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	2	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	2	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	2	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	4	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	4	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	4	10.95
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	4	10.95
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	3	10.86
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	3	10.86
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	3	10.86
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	3	10.86
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	5	10.77
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	5	10.77
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	5	10.77
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	5	10.77
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	1	10.72
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	1	10.72
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	1	10.72
(3,51)	1:A:71:ILE:CA	1:B:19:LEU:CG	1	10.72
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	3	10.71
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	3	10.71
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	3	10.71
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	3	10.71
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	4	10.7
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	4	10.7
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	4	10.7
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	4	10.7
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	2	10.68
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	2	10.68
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	2	10.68
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	2	10.68
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	1	10.58
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	1	10.58
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	1	10.58
(3,71)	1:A:84:VAL:CA	1:B:19:LEU:CB	1	10.58
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	5	10.56
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	5	10.56
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	5	10.56
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	5	10.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	4	10.45
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	4	10.45
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	4	10.45
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	4	10.45
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	2	10.44
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	2	10.44
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	2	10.44
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	2	10.44
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	1	10.23
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	1	10.23
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	1	10.23
(3,41)	1:A:71:ILE:CA	1:B:16:GLU:CA	1	10.23
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	3	10.14
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	3	10.14
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	3	10.14
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	3	10.14
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	5	10.05
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	5	10.05
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	5	10.05
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	5	10.05
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	4	9.96
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	4	9.96
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	4	9.96
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	4	9.96
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	2	9.95
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	2	9.95
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	2	9.95
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	2	9.95
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	1	9.85
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	1	9.85
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	1	9.85
(3,76)	1:A:84:VAL:CA	1:B:19:LEU:CG	1	9.85
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	3	9.72
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	3	9.72
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	3	9.72
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	3	9.72
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	3	9.62
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	3	9.62
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	3	9.62
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	3	9.62
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	5	9.55
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	5	9.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	5	9.55
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	5	9.55
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	5	9.44
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	5	9.44
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	5	9.44
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	5	9.44
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	2	9.44
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	2	9.44
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	2	9.44
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	2	9.44
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	4	9.42
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	4	9.42
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	4	9.42
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	4	9.42
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	2	9.31
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	2	9.31
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	2	9.31
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	2	9.31
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	4	9.28
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	4	9.28
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	4	9.28
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	4	9.28
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	1	9.28
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	1	9.28
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	1	9.28
(3,56)	1:A:78:PRO:CA	1:B:70:HIS:CA	1	9.28
(3,90)	1:B:89:THR:CB	1:A:9:THR:C	1	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,90)	1:B:89:THR:CB	1:A:9:THR:C	2	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,90)	1:B:89:THR:CB	1:A:9:THR:C	3	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,90)	1:B:89:THR:CB	1:A:9:THR:C	4	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,90)	1:B:89:THR:CB	1:A:9:THR:C	5	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,90)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,89)	1:B:89:THR:CB	1:A:9:THR:C	1	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,89)	1:B:89:THR:CB	1:A:9:THR:C	2	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,89)	1:B:89:THR:CB	1:A:9:THR:C	3	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,89)	1:B:89:THR:CB	1:A:9:THR:C	4	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,89)	1:B:89:THR:CB	1:A:9:THR:C	5	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,89)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,88)	1:B:89:THR:CB	1:A:9:THR:C	1	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,88)	1:B:89:THR:CB	1:A:9:THR:C	2	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,88)	1:B:89:THR:CB	1:A:9:THR:C	3	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,88)	1:B:89:THR:CB	1:A:9:THR:C	4	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,88)	1:B:89:THR:CB	1:A:9:THR:C	5	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,88)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,87)	1:B:89:THR:CB	1:A:9:THR:C	1	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	1	9.17
(3,87)	1:B:89:THR:CB	1:A:9:THR:C	2	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	2	9.17
(3,87)	1:B:89:THR:CB	1:A:9:THR:C	3	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	3	9.17
(3,87)	1:B:89:THR:CB	1:A:9:THR:C	4	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	4	9.17
(3,87)	1:B:89:THR:CB	1:A:9:THR:C	5	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,87)	1:B:89:THR:CB	1:B:9:THR:C	5	9.17
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	1	9.12
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	1	9.12
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	1	9.12
(3,61)	1:A:78:PRO:CD	1:B:70:HIS:CA	1	9.12
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	3	7.98
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	3	7.98
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	3	7.98
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	3	7.98
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	5	7.83
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	5	7.83
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	5	7.83
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	5	7.83
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	3	7.76
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	3	7.76
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	3	7.76
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	3	7.76
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	4	7.71
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	4	7.71
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	4	7.71
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	4	7.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	2	7.7
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	2	7.7
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	2	7.7
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	2	7.7
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	5	7.62
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	5	7.62
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	5	7.62
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	5	7.62
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	4	7.49
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	4	7.49
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	4	7.49
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	4	7.49
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	2	7.48
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	2	7.48
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	2	7.48
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	2	7.48
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	1	7.46
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	1	7.46
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	1	7.46
(3,31)	1:A:71:ILE:CA	1:B:16:GLU:CD	1	7.46
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	1	7.23
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	1	7.23
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	1	7.23
(3,36)	1:A:71:ILE:CB	1:B:16:GLU:CD	1	7.23
(3,20)	1:B:15:LYS:CA	1:A:84:VAL:CB	2	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,20)	1:B:15:LYS:CA	1:A:84:VAL:CB	3	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,20)	1:B:15:LYS:CA	1:A:84:VAL:CB	4	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,20)	1:B:15:LYS:CA	1:A:84:VAL:CB	5	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,19)	1:B:15:LYS:CA	1:A:84:VAL:CB	2	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,19)	1:B:15:LYS:CA	1:A:84:VAL:CB	3	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,19)	1:B:15:LYS:CA	1:A:84:VAL:CB	4	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,19)	1:B:15:LYS:CA	1:A:84:VAL:CB	5	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,18)	1:B:15:LYS:CA	1:A:84:VAL:CB	2	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,18)	1:B:15:LYS:CA	1:A:84:VAL:CB	3	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,18)	1:B:15:LYS:CA	1:A:84:VAL:CB	4	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,18)	1:B:15:LYS:CA	1:A:84:VAL:CB	5	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,17)	1:B:15:LYS:CA	1:A:84:VAL:CB	2	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	2	6.54
(3,17)	1:B:15:LYS:CA	1:A:84:VAL:CB	3	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	3	6.54
(3,17)	1:B:15:LYS:CA	1:A:84:VAL:CB	4	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	4	6.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,17)	1:B:15:LYS:CA	1:A:84:VAL:CB	5	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	5	6.54
(3,20)	1:B:15:LYS:CA	1:A:84:VAL:CB	1	6.53
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,20)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,19)	1:B:15:LYS:CA	1:A:84:VAL:CB	1	6.53
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,19)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,18)	1:B:15:LYS:CA	1:A:84:VAL:CB	1	6.53
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,18)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,17)	1:B:15:LYS:CA	1:A:84:VAL:CB	1	6.53
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,17)	1:B:15:LYS:CA	1:B:84:VAL:CB	1	6.53
(3,35)	1:B:71:ILE:CA	1:A:16:GLU:CD	1	6.16
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	6.16
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	6.16
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	6.16
(3,35)	1:B:71:ILE:CA	1:A:16:GLU:CD	5	6.08
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	6.08
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	6.08
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	6.08
(3,35)	1:B:71:ILE:CA	1:A:16:GLU:CD	2	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	6.07
(3,35)	1:B:71:ILE:CA	1:A:16:GLU:CD	3	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	6.07
(3,35)	1:B:71:ILE:CA	1:A:16:GLU:CD	4	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	6.07
(3,35)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	6.07
(3,15)	1:B:15:LYS:CA	1:A:84:VAL:CA	1	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,15)	1:B:15:LYS:CA	1:A:84:VAL:CA	2	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,15)	1:B:15:LYS:CA	1:A:84:VAL:CA	3	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,15)	1:B:15:LYS:CA	1:A:84:VAL:CA	4	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,15)	1:B:15:LYS:CA	1:A:84:VAL:CA	5	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,15)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,14)	1:B:15:LYS:CA	1:A:84:VAL:CA	1	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,14)	1:B:15:LYS:CA	1:A:84:VAL:CA	2	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,14)	1:B:15:LYS:CA	1:A:84:VAL:CA	3	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,14)	1:B:15:LYS:CA	1:A:84:VAL:CA	4	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,14)	1:B:15:LYS:CA	1:A:84:VAL:CA	5	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,14)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,13)	1:B:15:LYS:CA	1:A:84:VAL:CA	1	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,13)	1:B:15:LYS:CA	1:A:84:VAL:CA	2	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,13)	1:B:15:LYS:CA	1:A:84:VAL:CA	3	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,13)	1:B:15:LYS:CA	1:A:84:VAL:CA	4	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,13)	1:B:15:LYS:CA	1:A:84:VAL:CA	5	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,13)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,12)	1:B:15:LYS:CA	1:A:84:VAL:CA	1	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	1	5.98
(3,12)	1:B:15:LYS:CA	1:A:84:VAL:CA	2	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	2	5.98
(3,12)	1:B:15:LYS:CA	1:A:84:VAL:CA	3	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	3	5.98
(3,12)	1:B:15:LYS:CA	1:A:84:VAL:CA	4	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	4	5.98
(3,12)	1:B:15:LYS:CA	1:A:84:VAL:CA	5	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,12)	1:B:15:LYS:CA	1:B:84:VAL:CA	5	5.98
(3,40)	1:B:71:ILE:CB	1:A:16:GLU:CD	1	3.96
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,39)	1:B:71:ILE:CB	1:A:16:GLU:CD	1	3.96
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,38)	1:B:71:ILE:CB	1:A:16:GLU:CD	1	3.96
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,37)	1:B:71:ILE:CB	1:A:16:GLU:CD	1	3.96
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	1	3.96
(3,40)	1:B:71:ILE:CB	1:A:16:GLU:CD	2	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,40)	1:B:71:ILE:CB	1:A:16:GLU:CD	3	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,40)	1:B:71:ILE:CB	1:A:16:GLU:CD	5	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,39)	1:B:71:ILE:CB	1:A:16:GLU:CD	2	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,39)	1:B:71:ILE:CB	1:A:16:GLU:CD	3	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,39)	1:B:71:ILE:CB	1:A:16:GLU:CD	5	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,38)	1:B:71:ILE:CB	1:A:16:GLU:CD	2	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,38)	1:B:71:ILE:CB	1:A:16:GLU:CD	3	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,38)	1:B:71:ILE:CB	1:A:16:GLU:CD	5	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,37)	1:B:71:ILE:CB	1:A:16:GLU:CD	2	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	2	3.87
(3,37)	1:B:71:ILE:CB	1:A:16:GLU:CD	3	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	3	3.87
(3,37)	1:B:71:ILE:CB	1:A:16:GLU:CD	5	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	5	3.87
(3,40)	1:B:71:ILE:CB	1:A:16:GLU:CD	4	3.86
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,40)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,39)	1:B:71:ILE:CB	1:A:16:GLU:CD	4	3.86
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,39)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,38)	1:B:71:ILE:CB	1:A:16:GLU:CD	4	3.86
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,38)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,37)	1:B:71:ILE:CB	1:A:16:GLU:CD	4	3.86
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,37)	1:B:71:ILE:CB	1:B:16:GLU:CD	4	3.86
(3,45)	1:B:71:ILE:CA	1:A:16:GLU:CA	1	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,45)	1:B:71:ILE:CA	1:A:16:GLU:CA	2	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,45)	1:B:71:ILE:CA	1:A:16:GLU:CA	3	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,44)	1:B:71:ILE:CA	1:A:16:GLU:CA	1	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,44)	1:B:71:ILE:CA	1:A:16:GLU:CA	2	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,44)	1:B:71:ILE:CA	1:A:16:GLU:CA	3	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,43)	1:B:71:ILE:CA	1:A:16:GLU:CA	1	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,43)	1:B:71:ILE:CA	1:A:16:GLU:CA	2	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,43)	1:B:71:ILE:CA	1:A:16:GLU:CA	3	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,42)	1:B:71:ILE:CA	1:A:16:GLU:CA	1	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	1	3.58
(3,42)	1:B:71:ILE:CA	1:A:16:GLU:CA	2	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	2	3.58
(3,42)	1:B:71:ILE:CA	1:A:16:GLU:CA	3	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	3	3.58
(3,45)	1:B:71:ILE:CA	1:A:16:GLU:CA	4	3.57
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,45)	1:B:71:ILE:CA	1:A:16:GLU:CA	5	3.57
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,45)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,44)	1:B:71:ILE:CA	1:A:16:GLU:CA	4	3.57
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,44)	1:B:71:ILE:CA	1:A:16:GLU:CA	5	3.57
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,44)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,43)	1:B:71:ILE:CA	1:A:16:GLU:CA	4	3.57
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,43)	1:B:71:ILE:CA	1:A:16:GLU:CA	5	3.57
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,43)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,42)	1:B:71:ILE:CA	1:A:16:GLU:CA	4	3.57
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	4	3.57
(3,42)	1:B:71:ILE:CA	1:A:16:GLU:CA	5	3.57
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,42)	1:B:71:ILE:CA	1:B:16:GLU:CA	5	3.57
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	3	3.42
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	3	3.42
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	3	3.42
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	3	3.42
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	5	3.29
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	5	3.29
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	5	3.29
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	5	3.29
(3,34)	1:B:71:ILE:CA	1:A:16:GLU:CD	1	3.16
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	3.16
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	3.16
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	3.16
(3,33)	1:B:71:ILE:CA	1:A:16:GLU:CD	1	3.16
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	3.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	3.16
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	3.16
(3,32)	1:B:71:ILE:CA	1:A:16:GLU:CD	1	3.16
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	3.16
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	3.16
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	1	3.16
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	2	3.12
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	2	3.12
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	2	3.12
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	2	3.12
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	4	3.11
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	4	3.11
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	4	3.11
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	4	3.11
(3,34)	1:B:71:ILE:CA	1:A:16:GLU:CD	5	3.08
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.08
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.08
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.08
(3,33)	1:B:71:ILE:CA	1:A:16:GLU:CD	5	3.08
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.08
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.08
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.08
(3,32)	1:B:71:ILE:CA	1:A:16:GLU:CD	5	3.08
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.08
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.08
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	5	3.08
(3,34)	1:B:71:ILE:CA	1:A:16:GLU:CD	2	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	3.07
(3,34)	1:B:71:ILE:CA	1:A:16:GLU:CD	3	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	3.07
(3,34)	1:B:71:ILE:CA	1:A:16:GLU:CD	4	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	3.07
(3,34)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	3.07
(3,33)	1:B:71:ILE:CA	1:A:16:GLU:CD	2	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	3.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,33)	1:B:71:ILE:CA	1:A:16:GLU:CD	3	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	3.07
(3,33)	1:B:71:ILE:CA	1:A:16:GLU:CD	4	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	3.07
(3,33)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	3.07
(3,32)	1:B:71:ILE:CA	1:A:16:GLU:CD	2	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	2	3.07
(3,32)	1:B:71:ILE:CA	1:A:16:GLU:CD	3	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	3	3.07
(3,32)	1:B:71:ILE:CA	1:A:16:GLU:CD	4	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	3.07
(3,32)	1:B:71:ILE:CA	1:B:16:GLU:CD	4	3.07
(1,226)	1:A:10:VAL:CB	1:A:47:VAL:CG2	5	3.06
(1,226)	1:A:10:VAL:CB	1:B:47:VAL:CG2	5	3.06
(1,226)	1:A:10:VAL:CB	1:C:47:VAL:CG2	5	3.06
(1,226)	1:A:10:VAL:CB	1:D:47:VAL:CG2	5	3.06
(1,226)	1:A:10:VAL:CB	1:E:47:VAL:CG2	5	3.06
(1,226)	1:B:10:VAL:CB	1:A:47:VAL:CG2	5	3.06
(1,226)	1:B:10:VAL:CB	1:B:47:VAL:CG2	5	3.06
(1,226)	1:B:10:VAL:CB	1:C:47:VAL:CG2	5	3.06
(1,226)	1:B:10:VAL:CB	1:D:47:VAL:CG2	5	3.06
(1,226)	1:B:10:VAL:CB	1:E:47:VAL:CG2	5	3.06
(1,226)	1:C:10:VAL:CB	1:A:47:VAL:CG2	5	3.06
(1,226)	1:C:10:VAL:CB	1:B:47:VAL:CG2	5	3.06
(1,226)	1:C:10:VAL:CB	1:C:47:VAL:CG2	5	3.06
(1,226)	1:C:10:VAL:CB	1:D:47:VAL:CG2	5	3.06
(1,226)	1:C:10:VAL:CB	1:E:47:VAL:CG2	5	3.06
(1,226)	1:D:10:VAL:CB	1:A:47:VAL:CG2	5	3.06
(1,226)	1:D:10:VAL:CB	1:B:47:VAL:CG2	5	3.06
(1,226)	1:D:10:VAL:CB	1:C:47:VAL:CG2	5	3.06
(1,226)	1:D:10:VAL:CB	1:D:47:VAL:CG2	5	3.06
(1,226)	1:D:10:VAL:CB	1:E:47:VAL:CG2	5	3.06
(1,226)	1:E:10:VAL:CB	1:A:47:VAL:CG2	5	3.06
(1,226)	1:E:10:VAL:CB	1:B:47:VAL:CG2	5	3.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,226)	1:E:10:VAL:CB	1:C:47:VAL:CG2	5	3.06
(1,226)	1:E:10:VAL:CB	1:D:47:VAL:CG2	5	3.06
(1,226)	1:E:10:VAL:CB	1:E:47:VAL:CG2	5	3.06
(1,226)	1:A:10:VAL:CB	1:A:47:VAL:CG2	3	3.05
(1,226)	1:A:10:VAL:CB	1:B:47:VAL:CG2	3	3.05
(1,226)	1:A:10:VAL:CB	1:C:47:VAL:CG2	3	3.05
(1,226)	1:A:10:VAL:CB	1:D:47:VAL:CG2	3	3.05
(1,226)	1:A:10:VAL:CB	1:E:47:VAL:CG2	3	3.05
(1,226)	1:B:10:VAL:CB	1:A:47:VAL:CG2	3	3.05
(1,226)	1:B:10:VAL:CB	1:B:47:VAL:CG2	3	3.05
(1,226)	1:B:10:VAL:CB	1:C:47:VAL:CG2	3	3.05
(1,226)	1:B:10:VAL:CB	1:D:47:VAL:CG2	3	3.05
(1,226)	1:B:10:VAL:CB	1:E:47:VAL:CG2	3	3.05
(1,226)	1:C:10:VAL:CB	1:A:47:VAL:CG2	3	3.05
(1,226)	1:C:10:VAL:CB	1:B:47:VAL:CG2	3	3.05
(1,226)	1:C:10:VAL:CB	1:C:47:VAL:CG2	3	3.05
(1,226)	1:C:10:VAL:CB	1:D:47:VAL:CG2	3	3.05
(1,226)	1:C:10:VAL:CB	1:E:47:VAL:CG2	3	3.05
(1,226)	1:D:10:VAL:CB	1:A:47:VAL:CG2	3	3.05
(1,226)	1:D:10:VAL:CB	1:B:47:VAL:CG2	3	3.05
(1,226)	1:D:10:VAL:CB	1:C:47:VAL:CG2	3	3.05
(1,226)	1:D:10:VAL:CB	1:D:47:VAL:CG2	3	3.05
(1,226)	1:D:10:VAL:CB	1:E:47:VAL:CG2	3	3.05
(1,226)	1:E:10:VAL:CB	1:A:47:VAL:CG2	3	3.05
(1,226)	1:E:10:VAL:CB	1:B:47:VAL:CG2	3	3.05
(1,226)	1:E:10:VAL:CB	1:C:47:VAL:CG2	3	3.05
(1,226)	1:E:10:VAL:CB	1:D:47:VAL:CG2	3	3.05
(1,226)	1:E:10:VAL:CB	1:E:47:VAL:CG2	3	3.05
(1,226)	1:A:10:VAL:CB	1:A:47:VAL:CG2	2	3.04
(1,226)	1:A:10:VAL:CB	1:B:47:VAL:CG2	2	3.04
(1,226)	1:A:10:VAL:CB	1:C:47:VAL:CG2	2	3.04
(1,226)	1:A:10:VAL:CB	1:D:47:VAL:CG2	2	3.04
(1,226)	1:A:10:VAL:CB	1:E:47:VAL:CG2	2	3.04
(1,226)	1:B:10:VAL:CB	1:A:47:VAL:CG2	2	3.04
(1,226)	1:B:10:VAL:CB	1:B:47:VAL:CG2	2	3.04
(1,226)	1:B:10:VAL:CB	1:C:47:VAL:CG2	2	3.04
(1,226)	1:B:10:VAL:CB	1:D:47:VAL:CG2	2	3.04
(1,226)	1:B:10:VAL:CB	1:E:47:VAL:CG2	2	3.04
(1,226)	1:C:10:VAL:CB	1:A:47:VAL:CG2	2	3.04
(1,226)	1:C:10:VAL:CB	1:B:47:VAL:CG2	2	3.04
(1,226)	1:C:10:VAL:CB	1:C:47:VAL:CG2	2	3.04
(1,226)	1:C:10:VAL:CB	1:D:47:VAL:CG2	2	3.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,226)	1:C:10:VAL:CB	1:E:47:VAL:CG2	2	3.04
(1,226)	1:D:10:VAL:CB	1:A:47:VAL:CG2	2	3.04
(1,226)	1:D:10:VAL:CB	1:B:47:VAL:CG2	2	3.04
(1,226)	1:D:10:VAL:CB	1:C:47:VAL:CG2	2	3.04
(1,226)	1:D:10:VAL:CB	1:D:47:VAL:CG2	2	3.04
(1,226)	1:D:10:VAL:CB	1:E:47:VAL:CG2	2	3.04
(1,226)	1:E:10:VAL:CB	1:A:47:VAL:CG2	2	3.04
(1,226)	1:E:10:VAL:CB	1:B:47:VAL:CG2	2	3.04
(1,226)	1:E:10:VAL:CB	1:C:47:VAL:CG2	2	3.04
(1,226)	1:E:10:VAL:CB	1:D:47:VAL:CG2	2	3.04
(1,226)	1:E:10:VAL:CB	1:E:47:VAL:CG2	2	3.04
(1,226)	1:A:10:VAL:CB	1:A:47:VAL:CG2	4	3.04
(1,226)	1:A:10:VAL:CB	1:B:47:VAL:CG2	4	3.04
(1,226)	1:A:10:VAL:CB	1:C:47:VAL:CG2	4	3.04
(1,226)	1:A:10:VAL:CB	1:D:47:VAL:CG2	4	3.04
(1,226)	1:A:10:VAL:CB	1:E:47:VAL:CG2	4	3.04
(1,226)	1:B:10:VAL:CB	1:A:47:VAL:CG2	4	3.04
(1,226)	1:B:10:VAL:CB	1:B:47:VAL:CG2	4	3.04
(1,226)	1:B:10:VAL:CB	1:C:47:VAL:CG2	4	3.04
(1,226)	1:B:10:VAL:CB	1:D:47:VAL:CG2	4	3.04
(1,226)	1:B:10:VAL:CB	1:E:47:VAL:CG2	4	3.04
(1,226)	1:C:10:VAL:CB	1:A:47:VAL:CG2	4	3.04
(1,226)	1:C:10:VAL:CB	1:B:47:VAL:CG2	4	3.04
(1,226)	1:C:10:VAL:CB	1:C:47:VAL:CG2	4	3.04
(1,226)	1:C:10:VAL:CB	1:D:47:VAL:CG2	4	3.04
(1,226)	1:C:10:VAL:CB	1:E:47:VAL:CG2	4	3.04
(1,226)	1:D:10:VAL:CB	1:A:47:VAL:CG2	4	3.04
(1,226)	1:D:10:VAL:CB	1:B:47:VAL:CG2	4	3.04
(1,226)	1:D:10:VAL:CB	1:C:47:VAL:CG2	4	3.04
(1,226)	1:D:10:VAL:CB	1:D:47:VAL:CG2	4	3.04
(1,226)	1:D:10:VAL:CB	1:E:47:VAL:CG2	4	3.04
(1,226)	1:E:10:VAL:CB	1:A:47:VAL:CG2	4	3.04
(1,226)	1:E:10:VAL:CB	1:B:47:VAL:CG2	4	3.04
(1,226)	1:E:10:VAL:CB	1:C:47:VAL:CG2	4	3.04
(1,226)	1:E:10:VAL:CB	1:D:47:VAL:CG2	4	3.04
(1,226)	1:E:10:VAL:CB	1:E:47:VAL:CG2	4	3.04
(1,226)	1:A:10:VAL:CB	1:A:47:VAL:CG2	1	3.01
(1,226)	1:A:10:VAL:CB	1:B:47:VAL:CG2	1	3.01
(1,226)	1:A:10:VAL:CB	1:C:47:VAL:CG2	1	3.01
(1,226)	1:A:10:VAL:CB	1:D:47:VAL:CG2	1	3.01
(1,226)	1:A:10:VAL:CB	1:E:47:VAL:CG2	1	3.01
(1,226)	1:B:10:VAL:CB	1:A:47:VAL:CG2	1	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,226)	1:B:10:VAL:CB	1:B:47:VAL:CG2	1	3.01
(1,226)	1:B:10:VAL:CB	1:C:47:VAL:CG2	1	3.01
(1,226)	1:B:10:VAL:CB	1:D:47:VAL:CG2	1	3.01
(1,226)	1:B:10:VAL:CB	1:E:47:VAL:CG2	1	3.01
(1,226)	1:C:10:VAL:CB	1:A:47:VAL:CG2	1	3.01
(1,226)	1:C:10:VAL:CB	1:B:47:VAL:CG2	1	3.01
(1,226)	1:C:10:VAL:CB	1:C:47:VAL:CG2	1	3.01
(1,226)	1:C:10:VAL:CB	1:D:47:VAL:CG2	1	3.01
(1,226)	1:C:10:VAL:CB	1:E:47:VAL:CG2	1	3.01
(1,226)	1:D:10:VAL:CB	1:A:47:VAL:CG2	1	3.01
(1,226)	1:D:10:VAL:CB	1:B:47:VAL:CG2	1	3.01
(1,226)	1:D:10:VAL:CB	1:C:47:VAL:CG2	1	3.01
(1,226)	1:D:10:VAL:CB	1:D:47:VAL:CG2	1	3.01
(1,226)	1:D:10:VAL:CB	1:E:47:VAL:CG2	1	3.01
(1,226)	1:E:10:VAL:CB	1:A:47:VAL:CG2	1	3.01
(1,226)	1:E:10:VAL:CB	1:B:47:VAL:CG2	1	3.01
(1,226)	1:E:10:VAL:CB	1:C:47:VAL:CG2	1	3.01
(1,226)	1:E:10:VAL:CB	1:D:47:VAL:CG2	1	3.01
(1,226)	1:E:10:VAL:CB	1:E:47:VAL:CG2	1	3.01
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	1	2.86
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	1	2.86
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	1	2.86
(3,21)	1:A:67:ALA:CA	1:B:79:ILE:CA	1	2.86
(3,75)	1:B:84:VAL:CA	1:A:19:LEU:CB	1	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,75)	1:B:84:VAL:CA	1:A:19:LEU:CB	2	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,75)	1:B:84:VAL:CA	1:A:19:LEU:CB	3	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,75)	1:B:84:VAL:CA	1:A:19:LEU:CB	4	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,75)	1:B:84:VAL:CA	1:A:19:LEU:CB	5	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,75)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,74)	1:B:84:VAL:CA	1:A:19:LEU:CB	1	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,74)	1:B:84:VAL:CA	1:A:19:LEU:CB	2	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,74)	1:B:84:VAL:CA	1:A:19:LEU:CB	3	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,74)	1:B:84:VAL:CA	1:A:19:LEU:CB	4	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,74)	1:B:84:VAL:CA	1:A:19:LEU:CB	5	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,74)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,73)	1:B:84:VAL:CA	1:A:19:LEU:CB	1	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,73)	1:B:84:VAL:CA	1:A:19:LEU:CB	2	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,73)	1:B:84:VAL:CA	1:A:19:LEU:CB	3	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,73)	1:B:84:VAL:CA	1:A:19:LEU:CB	4	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,73)	1:B:84:VAL:CA	1:A:19:LEU:CB	5	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,73)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,72)	1:B:84:VAL:CA	1:A:19:LEU:CB	1	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	1	2.52
(3,72)	1:B:84:VAL:CA	1:A:19:LEU:CB	2	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	2	2.52
(3,72)	1:B:84:VAL:CA	1:A:19:LEU:CB	3	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	3	2.52
(3,72)	1:B:84:VAL:CA	1:A:19:LEU:CB	4	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	4	2.52
(3,72)	1:B:84:VAL:CA	1:A:19:LEU:CB	5	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(3,72)	1:B:84:VAL:CA	1:B:19:LEU:CB	5	2.52
(1,163)	1:A:23:LYS:CE	1:A:19:LEU:CG	3	2.51
(1,163)	1:A:23:LYS:CE	1:B:19:LEU:CG	3	2.51
(1,163)	1:A:23:LYS:CE	1:C:19:LEU:CG	3	2.51
(1,163)	1:A:23:LYS:CE	1:D:19:LEU:CG	3	2.51
(1,163)	1:A:23:LYS:CE	1:E:19:LEU:CG	3	2.51
(1,163)	1:B:23:LYS:CE	1:A:19:LEU:CG	3	2.51
(1,163)	1:B:23:LYS:CE	1:B:19:LEU:CG	3	2.51
(1,163)	1:B:23:LYS:CE	1:C:19:LEU:CG	3	2.51
(1,163)	1:B:23:LYS:CE	1:D:19:LEU:CG	3	2.51
(1,163)	1:B:23:LYS:CE	1:E:19:LEU:CG	3	2.51
(1,163)	1:C:23:LYS:CE	1:A:19:LEU:CG	3	2.51
(1,163)	1:C:23:LYS:CE	1:B:19:LEU:CG	3	2.51
(1,163)	1:C:23:LYS:CE	1:C:19:LEU:CG	3	2.51
(1,163)	1:C:23:LYS:CE	1:D:19:LEU:CG	3	2.51
(1,163)	1:C:23:LYS:CE	1:E:19:LEU:CG	3	2.51
(1,163)	1:D:23:LYS:CE	1:A:19:LEU:CG	3	2.51
(1,163)	1:D:23:LYS:CE	1:B:19:LEU:CG	3	2.51
(1,163)	1:D:23:LYS:CE	1:C:19:LEU:CG	3	2.51
(1,163)	1:D:23:LYS:CE	1:D:19:LEU:CG	3	2.51
(1,163)	1:D:23:LYS:CE	1:E:19:LEU:CG	3	2.51
(1,163)	1:E:23:LYS:CE	1:A:19:LEU:CG	3	2.51
(1,163)	1:E:23:LYS:CE	1:B:19:LEU:CG	3	2.51
(1,163)	1:E:23:LYS:CE	1:C:19:LEU:CG	3	2.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:E:23:LYS:CE	1:D:19:LEU:CG	3	2.51
(1,163)	1:E:23:LYS:CE	1:E:19:LEU:CG	3	2.51
(1,163)	1:A:23:LYS:CE	1:A:19:LEU:CG	2	2.46
(1,163)	1:A:23:LYS:CE	1:B:19:LEU:CG	2	2.46
(1,163)	1:A:23:LYS:CE	1:C:19:LEU:CG	2	2.46
(1,163)	1:A:23:LYS:CE	1:D:19:LEU:CG	2	2.46
(1,163)	1:A:23:LYS:CE	1:E:19:LEU:CG	2	2.46
(1,163)	1:B:23:LYS:CE	1:A:19:LEU:CG	2	2.46
(1,163)	1:B:23:LYS:CE	1:B:19:LEU:CG	2	2.46
(1,163)	1:B:23:LYS:CE	1:C:19:LEU:CG	2	2.46
(1,163)	1:B:23:LYS:CE	1:D:19:LEU:CG	2	2.46
(1,163)	1:B:23:LYS:CE	1:E:19:LEU:CG	2	2.46
(1,163)	1:C:23:LYS:CE	1:A:19:LEU:CG	2	2.46
(1,163)	1:C:23:LYS:CE	1:B:19:LEU:CG	2	2.46
(1,163)	1:C:23:LYS:CE	1:C:19:LEU:CG	2	2.46
(1,163)	1:C:23:LYS:CE	1:D:19:LEU:CG	2	2.46
(1,163)	1:C:23:LYS:CE	1:E:19:LEU:CG	2	2.46
(1,163)	1:D:23:LYS:CE	1:A:19:LEU:CG	2	2.46
(1,163)	1:D:23:LYS:CE	1:B:19:LEU:CG	2	2.46
(1,163)	1:D:23:LYS:CE	1:C:19:LEU:CG	2	2.46
(1,163)	1:D:23:LYS:CE	1:D:19:LEU:CG	2	2.46
(1,163)	1:D:23:LYS:CE	1:E:19:LEU:CG	2	2.46
(1,163)	1:E:23:LYS:CE	1:A:19:LEU:CG	2	2.46
(1,163)	1:E:23:LYS:CE	1:B:19:LEU:CG	2	2.46
(1,163)	1:E:23:LYS:CE	1:C:19:LEU:CG	2	2.46
(1,163)	1:E:23:LYS:CE	1:D:19:LEU:CG	2	2.46
(1,163)	1:E:23:LYS:CE	1:E:19:LEU:CG	2	2.46
(1,163)	1:A:23:LYS:CE	1:A:19:LEU:CG	4	2.46
(1,163)	1:A:23:LYS:CE	1:B:19:LEU:CG	4	2.46
(1,163)	1:A:23:LYS:CE	1:C:19:LEU:CG	4	2.46
(1,163)	1:A:23:LYS:CE	1:D:19:LEU:CG	4	2.46
(1,163)	1:A:23:LYS:CE	1:E:19:LEU:CG	4	2.46
(1,163)	1:B:23:LYS:CE	1:A:19:LEU:CG	4	2.46
(1,163)	1:B:23:LYS:CE	1:B:19:LEU:CG	4	2.46
(1,163)	1:B:23:LYS:CE	1:C:19:LEU:CG	4	2.46
(1,163)	1:B:23:LYS:CE	1:D:19:LEU:CG	4	2.46
(1,163)	1:B:23:LYS:CE	1:E:19:LEU:CG	4	2.46
(1,163)	1:C:23:LYS:CE	1:A:19:LEU:CG	4	2.46
(1,163)	1:C:23:LYS:CE	1:B:19:LEU:CG	4	2.46
(1,163)	1:C:23:LYS:CE	1:C:19:LEU:CG	4	2.46
(1,163)	1:C:23:LYS:CE	1:D:19:LEU:CG	4	2.46
(1,163)	1:C:23:LYS:CE	1:E:19:LEU:CG	4	2.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:D:23:LYS:CE	1:A:19:LEU:CG	4	2.46
(1,163)	1:D:23:LYS:CE	1:B:19:LEU:CG	4	2.46
(1,163)	1:D:23:LYS:CE	1:C:19:LEU:CG	4	2.46
(1,163)	1:D:23:LYS:CE	1:D:19:LEU:CG	4	2.46
(1,163)	1:D:23:LYS:CE	1:E:19:LEU:CG	4	2.46
(1,163)	1:E:23:LYS:CE	1:A:19:LEU:CG	4	2.46
(1,163)	1:E:23:LYS:CE	1:B:19:LEU:CG	4	2.46
(1,163)	1:E:23:LYS:CE	1:C:19:LEU:CG	4	2.46
(1,163)	1:E:23:LYS:CE	1:D:19:LEU:CG	4	2.46
(1,163)	1:E:23:LYS:CE	1:E:19:LEU:CG	4	2.46
(1,163)	1:A:23:LYS:CE	1:A:19:LEU:CG	5	2.46
(1,163)	1:A:23:LYS:CE	1:B:19:LEU:CG	5	2.46
(1,163)	1:A:23:LYS:CE	1:C:19:LEU:CG	5	2.46
(1,163)	1:A:23:LYS:CE	1:D:19:LEU:CG	5	2.46
(1,163)	1:A:23:LYS:CE	1:E:19:LEU:CG	5	2.46
(1,163)	1:B:23:LYS:CE	1:A:19:LEU:CG	5	2.46
(1,163)	1:B:23:LYS:CE	1:B:19:LEU:CG	5	2.46
(1,163)	1:B:23:LYS:CE	1:C:19:LEU:CG	5	2.46
(1,163)	1:B:23:LYS:CE	1:D:19:LEU:CG	5	2.46
(1,163)	1:B:23:LYS:CE	1:E:19:LEU:CG	5	2.46
(1,163)	1:C:23:LYS:CE	1:A:19:LEU:CG	5	2.46
(1,163)	1:C:23:LYS:CE	1:B:19:LEU:CG	5	2.46
(1,163)	1:C:23:LYS:CE	1:C:19:LEU:CG	5	2.46
(1,163)	1:C:23:LYS:CE	1:D:19:LEU:CG	5	2.46
(1,163)	1:C:23:LYS:CE	1:E:19:LEU:CG	5	2.46
(1,163)	1:D:23:LYS:CE	1:A:19:LEU:CG	5	2.46
(1,163)	1:D:23:LYS:CE	1:B:19:LEU:CG	5	2.46
(1,163)	1:D:23:LYS:CE	1:C:19:LEU:CG	5	2.46
(1,163)	1:D:23:LYS:CE	1:D:19:LEU:CG	5	2.46
(1,163)	1:D:23:LYS:CE	1:E:19:LEU:CG	5	2.46
(1,163)	1:E:23:LYS:CE	1:A:19:LEU:CG	5	2.46
(1,163)	1:E:23:LYS:CE	1:B:19:LEU:CG	5	2.46
(1,163)	1:E:23:LYS:CE	1:C:19:LEU:CG	5	2.46
(1,163)	1:E:23:LYS:CE	1:D:19:LEU:CG	5	2.46
(1,163)	1:E:23:LYS:CE	1:E:19:LEU:CG	5	2.46
(1,163)	1:A:23:LYS:CE	1:A:19:LEU:CG	1	2.41
(1,163)	1:A:23:LYS:CE	1:B:19:LEU:CG	1	2.41
(1,163)	1:A:23:LYS:CE	1:C:19:LEU:CG	1	2.41
(1,163)	1:A:23:LYS:CE	1:D:19:LEU:CG	1	2.41
(1,163)	1:A:23:LYS:CE	1:E:19:LEU:CG	1	2.41
(1,163)	1:B:23:LYS:CE	1:A:19:LEU:CG	1	2.41
(1,163)	1:B:23:LYS:CE	1:B:19:LEU:CG	1	2.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,163)	1:B:23:LYS:CE	1:C:19:LEU:CG	1	2.41
(1,163)	1:B:23:LYS:CE	1:D:19:LEU:CG	1	2.41
(1,163)	1:B:23:LYS:CE	1:E:19:LEU:CG	1	2.41
(1,163)	1:C:23:LYS:CE	1:A:19:LEU:CG	1	2.41
(1,163)	1:C:23:LYS:CE	1:B:19:LEU:CG	1	2.41
(1,163)	1:C:23:LYS:CE	1:C:19:LEU:CG	1	2.41
(1,163)	1:C:23:LYS:CE	1:D:19:LEU:CG	1	2.41
(1,163)	1:C:23:LYS:CE	1:E:19:LEU:CG	1	2.41
(1,163)	1:D:23:LYS:CE	1:A:19:LEU:CG	1	2.41
(1,163)	1:D:23:LYS:CE	1:B:19:LEU:CG	1	2.41
(1,163)	1:D:23:LYS:CE	1:C:19:LEU:CG	1	2.41
(1,163)	1:D:23:LYS:CE	1:D:19:LEU:CG	1	2.41
(1,163)	1:D:23:LYS:CE	1:E:19:LEU:CG	1	2.41
(1,163)	1:E:23:LYS:CE	1:A:19:LEU:CG	1	2.41
(1,163)	1:E:23:LYS:CE	1:B:19:LEU:CG	1	2.41
(1,163)	1:E:23:LYS:CE	1:C:19:LEU:CG	1	2.41
(1,163)	1:E:23:LYS:CE	1:D:19:LEU:CG	1	2.41
(1,163)	1:E:23:LYS:CE	1:E:19:LEU:CG	1	2.41
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	3	2.37
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	3	2.37
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	3	2.37
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	3	2.37
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	5	2.24
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	5	2.24
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	5	2.24
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	5	2.24
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	2	2.07
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	2	2.07
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	2	2.07
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	2	2.07
(1,224)	1:A:10:VAL:CB	1:A:47:VAL:CB	1	2.07
(1,224)	1:A:10:VAL:CB	1:B:47:VAL:CB	1	2.07
(1,224)	1:A:10:VAL:CB	1:C:47:VAL:CB	1	2.07
(1,224)	1:A:10:VAL:CB	1:D:47:VAL:CB	1	2.07
(1,224)	1:A:10:VAL:CB	1:E:47:VAL:CB	1	2.07
(1,224)	1:B:10:VAL:CB	1:A:47:VAL:CB	1	2.07
(1,224)	1:B:10:VAL:CB	1:B:47:VAL:CB	1	2.07
(1,224)	1:B:10:VAL:CB	1:C:47:VAL:CB	1	2.07
(1,224)	1:B:10:VAL:CB	1:D:47:VAL:CB	1	2.07
(1,224)	1:B:10:VAL:CB	1:E:47:VAL:CB	1	2.07
(1,224)	1:C:10:VAL:CB	1:A:47:VAL:CB	1	2.07
(1,224)	1:C:10:VAL:CB	1:B:47:VAL:CB	1	2.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,224)	1:C:10:VAL:CB	1:C:47:VAL:CB	1	2.07
(1,224)	1:C:10:VAL:CB	1:D:47:VAL:CB	1	2.07
(1,224)	1:C:10:VAL:CB	1:E:47:VAL:CB	1	2.07
(1,224)	1:D:10:VAL:CB	1:A:47:VAL:CB	1	2.07
(1,224)	1:D:10:VAL:CB	1:B:47:VAL:CB	1	2.07
(1,224)	1:D:10:VAL:CB	1:C:47:VAL:CB	1	2.07
(1,224)	1:D:10:VAL:CB	1:D:47:VAL:CB	1	2.07
(1,224)	1:D:10:VAL:CB	1:E:47:VAL:CB	1	2.07
(1,224)	1:E:10:VAL:CB	1:A:47:VAL:CB	1	2.07
(1,224)	1:E:10:VAL:CB	1:B:47:VAL:CB	1	2.07
(1,224)	1:E:10:VAL:CB	1:C:47:VAL:CB	1	2.07
(1,224)	1:E:10:VAL:CB	1:D:47:VAL:CB	1	2.07
(1,224)	1:E:10:VAL:CB	1:E:47:VAL:CB	1	2.07
(1,224)	1:A:10:VAL:CB	1:A:47:VAL:CB	2	2.07
(1,224)	1:A:10:VAL:CB	1:B:47:VAL:CB	2	2.07
(1,224)	1:A:10:VAL:CB	1:C:47:VAL:CB	2	2.07
(1,224)	1:A:10:VAL:CB	1:D:47:VAL:CB	2	2.07
(1,224)	1:A:10:VAL:CB	1:E:47:VAL:CB	2	2.07
(1,224)	1:B:10:VAL:CB	1:A:47:VAL:CB	2	2.07
(1,224)	1:B:10:VAL:CB	1:B:47:VAL:CB	2	2.07
(1,224)	1:B:10:VAL:CB	1:C:47:VAL:CB	2	2.07
(1,224)	1:B:10:VAL:CB	1:D:47:VAL:CB	2	2.07
(1,224)	1:B:10:VAL:CB	1:E:47:VAL:CB	2	2.07
(1,224)	1:C:10:VAL:CB	1:A:47:VAL:CB	2	2.07
(1,224)	1:C:10:VAL:CB	1:B:47:VAL:CB	2	2.07
(1,224)	1:C:10:VAL:CB	1:C:47:VAL:CB	2	2.07
(1,224)	1:C:10:VAL:CB	1:D:47:VAL:CB	2	2.07
(1,224)	1:C:10:VAL:CB	1:E:47:VAL:CB	2	2.07
(1,224)	1:D:10:VAL:CB	1:A:47:VAL:CB	2	2.07
(1,224)	1:D:10:VAL:CB	1:B:47:VAL:CB	2	2.07
(1,224)	1:D:10:VAL:CB	1:C:47:VAL:CB	2	2.07
(1,224)	1:D:10:VAL:CB	1:D:47:VAL:CB	2	2.07
(1,224)	1:D:10:VAL:CB	1:E:47:VAL:CB	2	2.07
(1,224)	1:E:10:VAL:CB	1:A:47:VAL:CB	2	2.07
(1,224)	1:E:10:VAL:CB	1:B:47:VAL:CB	2	2.07
(1,224)	1:E:10:VAL:CB	1:C:47:VAL:CB	2	2.07
(1,224)	1:E:10:VAL:CB	1:D:47:VAL:CB	2	2.07
(1,224)	1:E:10:VAL:CB	1:E:47:VAL:CB	2	2.07
(1,224)	1:A:10:VAL:CB	1:A:47:VAL:CB	3	2.07
(1,224)	1:A:10:VAL:CB	1:B:47:VAL:CB	3	2.07
(1,224)	1:A:10:VAL:CB	1:C:47:VAL:CB	3	2.07
(1,224)	1:A:10:VAL:CB	1:D:47:VAL:CB	3	2.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,224)	1:A:10:VAL:CB	1:E:47:VAL:CB	3	2.07
(1,224)	1:B:10:VAL:CB	1:A:47:VAL:CB	3	2.07
(1,224)	1:B:10:VAL:CB	1:B:47:VAL:CB	3	2.07
(1,224)	1:B:10:VAL:CB	1:C:47:VAL:CB	3	2.07
(1,224)	1:B:10:VAL:CB	1:D:47:VAL:CB	3	2.07
(1,224)	1:B:10:VAL:CB	1:E:47:VAL:CB	3	2.07
(1,224)	1:C:10:VAL:CB	1:A:47:VAL:CB	3	2.07
(1,224)	1:C:10:VAL:CB	1:B:47:VAL:CB	3	2.07
(1,224)	1:C:10:VAL:CB	1:C:47:VAL:CB	3	2.07
(1,224)	1:C:10:VAL:CB	1:D:47:VAL:CB	3	2.07
(1,224)	1:C:10:VAL:CB	1:E:47:VAL:CB	3	2.07
(1,224)	1:D:10:VAL:CB	1:A:47:VAL:CB	3	2.07
(1,224)	1:D:10:VAL:CB	1:B:47:VAL:CB	3	2.07
(1,224)	1:D:10:VAL:CB	1:C:47:VAL:CB	3	2.07
(1,224)	1:D:10:VAL:CB	1:D:47:VAL:CB	3	2.07
(1,224)	1:D:10:VAL:CB	1:E:47:VAL:CB	3	2.07
(1,224)	1:E:10:VAL:CB	1:A:47:VAL:CB	3	2.07
(1,224)	1:E:10:VAL:CB	1:B:47:VAL:CB	3	2.07
(1,224)	1:E:10:VAL:CB	1:C:47:VAL:CB	3	2.07
(1,224)	1:E:10:VAL:CB	1:D:47:VAL:CB	3	2.07
(1,224)	1:E:10:VAL:CB	1:E:47:VAL:CB	3	2.07
(1,224)	1:A:10:VAL:CB	1:A:47:VAL:CB	4	2.07
(1,224)	1:A:10:VAL:CB	1:B:47:VAL:CB	4	2.07
(1,224)	1:A:10:VAL:CB	1:C:47:VAL:CB	4	2.07
(1,224)	1:A:10:VAL:CB	1:D:47:VAL:CB	4	2.07
(1,224)	1:A:10:VAL:CB	1:E:47:VAL:CB	4	2.07
(1,224)	1:B:10:VAL:CB	1:A:47:VAL:CB	4	2.07
(1,224)	1:B:10:VAL:CB	1:B:47:VAL:CB	4	2.07
(1,224)	1:B:10:VAL:CB	1:C:47:VAL:CB	4	2.07
(1,224)	1:B:10:VAL:CB	1:D:47:VAL:CB	4	2.07
(1,224)	1:B:10:VAL:CB	1:E:47:VAL:CB	4	2.07
(1,224)	1:C:10:VAL:CB	1:A:47:VAL:CB	4	2.07
(1,224)	1:C:10:VAL:CB	1:B:47:VAL:CB	4	2.07
(1,224)	1:C:10:VAL:CB	1:C:47:VAL:CB	4	2.07
(1,224)	1:C:10:VAL:CB	1:D:47:VAL:CB	4	2.07
(1,224)	1:C:10:VAL:CB	1:E:47:VAL:CB	4	2.07
(1,224)	1:D:10:VAL:CB	1:A:47:VAL:CB	4	2.07
(1,224)	1:D:10:VAL:CB	1:B:47:VAL:CB	4	2.07
(1,224)	1:D:10:VAL:CB	1:C:47:VAL:CB	4	2.07
(1,224)	1:D:10:VAL:CB	1:D:47:VAL:CB	4	2.07
(1,224)	1:D:10:VAL:CB	1:E:47:VAL:CB	4	2.07
(1,224)	1:E:10:VAL:CB	1:A:47:VAL:CB	4	2.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,224)	1:E:10:VAL:CB	1:B:47:VAL:CB	4	2.07
(1,224)	1:E:10:VAL:CB	1:C:47:VAL:CB	4	2.07
(1,224)	1:E:10:VAL:CB	1:D:47:VAL:CB	4	2.07
(1,224)	1:E:10:VAL:CB	1:E:47:VAL:CB	4	2.07
(1,224)	1:A:10:VAL:CB	1:A:47:VAL:CB	5	2.07
(1,224)	1:A:10:VAL:CB	1:B:47:VAL:CB	5	2.07
(1,224)	1:A:10:VAL:CB	1:C:47:VAL:CB	5	2.07
(1,224)	1:A:10:VAL:CB	1:D:47:VAL:CB	5	2.07
(1,224)	1:A:10:VAL:CB	1:E:47:VAL:CB	5	2.07
(1,224)	1:B:10:VAL:CB	1:A:47:VAL:CB	5	2.07
(1,224)	1:B:10:VAL:CB	1:B:47:VAL:CB	5	2.07
(1,224)	1:B:10:VAL:CB	1:C:47:VAL:CB	5	2.07
(1,224)	1:B:10:VAL:CB	1:D:47:VAL:CB	5	2.07
(1,224)	1:B:10:VAL:CB	1:E:47:VAL:CB	5	2.07
(1,224)	1:C:10:VAL:CB	1:A:47:VAL:CB	5	2.07
(1,224)	1:C:10:VAL:CB	1:B:47:VAL:CB	5	2.07
(1,224)	1:C:10:VAL:CB	1:C:47:VAL:CB	5	2.07
(1,224)	1:C:10:VAL:CB	1:D:47:VAL:CB	5	2.07
(1,224)	1:C:10:VAL:CB	1:E:47:VAL:CB	5	2.07
(1,224)	1:D:10:VAL:CB	1:A:47:VAL:CB	5	2.07
(1,224)	1:D:10:VAL:CB	1:B:47:VAL:CB	5	2.07
(1,224)	1:D:10:VAL:CB	1:C:47:VAL:CB	5	2.07
(1,224)	1:D:10:VAL:CB	1:D:47:VAL:CB	5	2.07
(1,224)	1:D:10:VAL:CB	1:E:47:VAL:CB	5	2.07
(1,224)	1:E:10:VAL:CB	1:A:47:VAL:CB	5	2.07
(1,224)	1:E:10:VAL:CB	1:B:47:VAL:CB	5	2.07
(1,224)	1:E:10:VAL:CB	1:C:47:VAL:CB	5	2.07
(1,224)	1:E:10:VAL:CB	1:D:47:VAL:CB	5	2.07
(1,224)	1:E:10:VAL:CB	1:E:47:VAL:CB	5	2.07
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	4	2.06
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	4	2.06
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	4	2.06
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	4	2.06
(3,80)	1:B:84:VAL:CA	1:A:19:LEU:CG	3	2.04
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,80)	1:B:84:VAL:CA	1:A:19:LEU:CG	5	2.04
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,79)	1:B:84:VAL:CA	1:A:19:LEU:CG	3	2.04

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,79)	1:B:84:VAL:CA	1:A:19:LEU:CG	5	2.04
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,78)	1:B:84:VAL:CA	1:A:19:LEU:CG	3	2.04
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,78)	1:B:84:VAL:CA	1:A:19:LEU:CG	5	2.04
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,77)	1:B:84:VAL:CA	1:A:19:LEU:CG	3	2.04
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	3	2.04
(3,77)	1:B:84:VAL:CA	1:A:19:LEU:CG	5	2.04
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	5	2.04
(3,80)	1:B:84:VAL:CA	1:A:19:LEU:CG	2	2.03
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,80)	1:B:84:VAL:CA	1:A:19:LEU:CG	4	2.03
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,79)	1:B:84:VAL:CA	1:A:19:LEU:CG	2	2.03
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,79)	1:B:84:VAL:CA	1:A:19:LEU:CG	4	2.03
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,78)	1:B:84:VAL:CA	1:A:19:LEU:CG	2	2.03
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,78)	1:B:84:VAL:CA	1:A:19:LEU:CG	4	2.03
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,77)	1:B:84:VAL:CA	1:A:19:LEU:CG	2	2.03
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	2	2.03
(3,77)	1:B:84:VAL:CA	1:A:19:LEU:CG	4	2.03
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	4	2.03
(3,80)	1:B:84:VAL:CA	1:A:19:LEU:CG	1	2.02
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,80)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,79)	1:B:84:VAL:CA	1:A:19:LEU:CG	1	2.02
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,79)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,78)	1:B:84:VAL:CA	1:A:19:LEU:CG	1	2.02
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,78)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,77)	1:B:84:VAL:CA	1:A:19:LEU:CG	1	2.02
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(3,77)	1:B:84:VAL:CA	1:B:19:LEU:CG	1	2.02
(1,225)	1:A:10:VAL:CB	1:A:47:VAL:CG1	1	1.92
(1,225)	1:A:10:VAL:CB	1:B:47:VAL:CG1	1	1.92
(1,225)	1:A:10:VAL:CB	1:C:47:VAL:CG1	1	1.92
(1,225)	1:A:10:VAL:CB	1:D:47:VAL:CG1	1	1.92
(1,225)	1:A:10:VAL:CB	1:E:47:VAL:CG1	1	1.92
(1,225)	1:B:10:VAL:CB	1:A:47:VAL:CG1	1	1.92
(1,225)	1:B:10:VAL:CB	1:B:47:VAL:CG1	1	1.92
(1,225)	1:B:10:VAL:CB	1:C:47:VAL:CG1	1	1.92
(1,225)	1:B:10:VAL:CB	1:D:47:VAL:CG1	1	1.92
(1,225)	1:B:10:VAL:CB	1:E:47:VAL:CG1	1	1.92
(1,225)	1:C:10:VAL:CB	1:A:47:VAL:CG1	1	1.92
(1,225)	1:C:10:VAL:CB	1:B:47:VAL:CG1	1	1.92
(1,225)	1:C:10:VAL:CB	1:C:47:VAL:CG1	1	1.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:C:10:VAL:CB	1:D:47:VAL:CG1	1	1.92
(1,225)	1:C:10:VAL:CB	1:E:47:VAL:CG1	1	1.92
(1,225)	1:D:10:VAL:CB	1:A:47:VAL:CG1	1	1.92
(1,225)	1:D:10:VAL:CB	1:B:47:VAL:CG1	1	1.92
(1,225)	1:D:10:VAL:CB	1:C:47:VAL:CG1	1	1.92
(1,225)	1:D:10:VAL:CB	1:D:47:VAL:CG1	1	1.92
(1,225)	1:D:10:VAL:CB	1:E:47:VAL:CG1	1	1.92
(1,225)	1:E:10:VAL:CB	1:A:47:VAL:CG1	1	1.92
(1,225)	1:E:10:VAL:CB	1:B:47:VAL:CG1	1	1.92
(1,225)	1:E:10:VAL:CB	1:C:47:VAL:CG1	1	1.92
(1,225)	1:E:10:VAL:CB	1:D:47:VAL:CG1	1	1.92
(1,225)	1:E:10:VAL:CB	1:E:47:VAL:CG1	1	1.92
(1,225)	1:A:10:VAL:CB	1:A:47:VAL:CG1	2	1.84
(1,225)	1:A:10:VAL:CB	1:B:47:VAL:CG1	2	1.84
(1,225)	1:A:10:VAL:CB	1:C:47:VAL:CG1	2	1.84
(1,225)	1:A:10:VAL:CB	1:D:47:VAL:CG1	2	1.84
(1,225)	1:A:10:VAL:CB	1:E:47:VAL:CG1	2	1.84
(1,225)	1:B:10:VAL:CB	1:A:47:VAL:CG1	2	1.84
(1,225)	1:B:10:VAL:CB	1:B:47:VAL:CG1	2	1.84
(1,225)	1:B:10:VAL:CB	1:C:47:VAL:CG1	2	1.84
(1,225)	1:B:10:VAL:CB	1:D:47:VAL:CG1	2	1.84
(1,225)	1:B:10:VAL:CB	1:E:47:VAL:CG1	2	1.84
(1,225)	1:C:10:VAL:CB	1:A:47:VAL:CG1	2	1.84
(1,225)	1:C:10:VAL:CB	1:B:47:VAL:CG1	2	1.84
(1,225)	1:C:10:VAL:CB	1:C:47:VAL:CG1	2	1.84
(1,225)	1:C:10:VAL:CB	1:D:47:VAL:CG1	2	1.84
(1,225)	1:C:10:VAL:CB	1:E:47:VAL:CG1	2	1.84
(1,225)	1:D:10:VAL:CB	1:A:47:VAL:CG1	2	1.84
(1,225)	1:D:10:VAL:CB	1:B:47:VAL:CG1	2	1.84
(1,225)	1:D:10:VAL:CB	1:C:47:VAL:CG1	2	1.84
(1,225)	1:D:10:VAL:CB	1:D:47:VAL:CG1	2	1.84
(1,225)	1:D:10:VAL:CB	1:E:47:VAL:CG1	2	1.84
(1,225)	1:E:10:VAL:CB	1:A:47:VAL:CG1	2	1.84
(1,225)	1:E:10:VAL:CB	1:B:47:VAL:CG1	2	1.84
(1,225)	1:E:10:VAL:CB	1:C:47:VAL:CG1	2	1.84
(1,225)	1:E:10:VAL:CB	1:D:47:VAL:CG1	2	1.84
(1,225)	1:E:10:VAL:CB	1:E:47:VAL:CG1	2	1.84
(1,225)	1:A:10:VAL:CB	1:A:47:VAL:CG1	4	1.84
(1,225)	1:A:10:VAL:CB	1:B:47:VAL:CG1	4	1.84
(1,225)	1:A:10:VAL:CB	1:C:47:VAL:CG1	4	1.84
(1,225)	1:A:10:VAL:CB	1:D:47:VAL:CG1	4	1.84
(1,225)	1:A:10:VAL:CB	1:E:47:VAL:CG1	4	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:B:10:VAL:CB	1:A:47:VAL:CG1	4	1.84
(1,225)	1:B:10:VAL:CB	1:B:47:VAL:CG1	4	1.84
(1,225)	1:B:10:VAL:CB	1:C:47:VAL:CG1	4	1.84
(1,225)	1:B:10:VAL:CB	1:D:47:VAL:CG1	4	1.84
(1,225)	1:B:10:VAL:CB	1:E:47:VAL:CG1	4	1.84
(1,225)	1:C:10:VAL:CB	1:A:47:VAL:CG1	4	1.84
(1,225)	1:C:10:VAL:CB	1:B:47:VAL:CG1	4	1.84
(1,225)	1:C:10:VAL:CB	1:C:47:VAL:CG1	4	1.84
(1,225)	1:C:10:VAL:CB	1:D:47:VAL:CG1	4	1.84
(1,225)	1:C:10:VAL:CB	1:E:47:VAL:CG1	4	1.84
(1,225)	1:D:10:VAL:CB	1:A:47:VAL:CG1	4	1.84
(1,225)	1:D:10:VAL:CB	1:B:47:VAL:CG1	4	1.84
(1,225)	1:D:10:VAL:CB	1:C:47:VAL:CG1	4	1.84
(1,225)	1:D:10:VAL:CB	1:D:47:VAL:CG1	4	1.84
(1,225)	1:D:10:VAL:CB	1:E:47:VAL:CG1	4	1.84
(1,225)	1:E:10:VAL:CB	1:A:47:VAL:CG1	4	1.84
(1,225)	1:E:10:VAL:CB	1:B:47:VAL:CG1	4	1.84
(1,225)	1:E:10:VAL:CB	1:C:47:VAL:CG1	4	1.84
(1,225)	1:E:10:VAL:CB	1:D:47:VAL:CG1	4	1.84
(1,225)	1:E:10:VAL:CB	1:E:47:VAL:CG1	4	1.84
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	1	1.81
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	1	1.81
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	1	1.81
(3,26)	1:A:67:ALA:CA	1:B:79:ILE:CB	1	1.81
(1,225)	1:A:10:VAL:CB	1:A:47:VAL:CG1	3	1.77
(1,225)	1:A:10:VAL:CB	1:B:47:VAL:CG1	3	1.77
(1,225)	1:A:10:VAL:CB	1:C:47:VAL:CG1	3	1.77
(1,225)	1:A:10:VAL:CB	1:D:47:VAL:CG1	3	1.77
(1,225)	1:A:10:VAL:CB	1:E:47:VAL:CG1	3	1.77
(1,225)	1:B:10:VAL:CB	1:A:47:VAL:CG1	3	1.77
(1,225)	1:B:10:VAL:CB	1:B:47:VAL:CG1	3	1.77
(1,225)	1:B:10:VAL:CB	1:C:47:VAL:CG1	3	1.77
(1,225)	1:B:10:VAL:CB	1:D:47:VAL:CG1	3	1.77
(1,225)	1:B:10:VAL:CB	1:E:47:VAL:CG1	3	1.77
(1,225)	1:C:10:VAL:CB	1:A:47:VAL:CG1	3	1.77
(1,225)	1:C:10:VAL:CB	1:B:47:VAL:CG1	3	1.77
(1,225)	1:C:10:VAL:CB	1:C:47:VAL:CG1	3	1.77
(1,225)	1:C:10:VAL:CB	1:D:47:VAL:CG1	3	1.77
(1,225)	1:C:10:VAL:CB	1:E:47:VAL:CG1	3	1.77
(1,225)	1:D:10:VAL:CB	1:A:47:VAL:CG1	3	1.77
(1,225)	1:D:10:VAL:CB	1:B:47:VAL:CG1	3	1.77
(1,225)	1:D:10:VAL:CB	1:C:47:VAL:CG1	3	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:D:10:VAL:CB	1:D:47:VAL:CG1	3	1.77
(1,225)	1:D:10:VAL:CB	1:E:47:VAL:CG1	3	1.77
(1,225)	1:E:10:VAL:CB	1:A:47:VAL:CG1	3	1.77
(1,225)	1:E:10:VAL:CB	1:B:47:VAL:CG1	3	1.77
(1,225)	1:E:10:VAL:CB	1:C:47:VAL:CG1	3	1.77
(1,225)	1:E:10:VAL:CB	1:D:47:VAL:CG1	3	1.77
(1,225)	1:E:10:VAL:CB	1:E:47:VAL:CG1	3	1.77
(1,228)	1:A:13:THR:CB	1:A:19:LEU:CG	2	1.75
(1,228)	1:A:13:THR:CB	1:B:19:LEU:CG	2	1.75
(1,228)	1:A:13:THR:CB	1:C:19:LEU:CG	2	1.75
(1,228)	1:A:13:THR:CB	1:D:19:LEU:CG	2	1.75
(1,228)	1:A:13:THR:CB	1:E:19:LEU:CG	2	1.75
(1,228)	1:B:13:THR:CB	1:A:19:LEU:CG	2	1.75
(1,228)	1:B:13:THR:CB	1:B:19:LEU:CG	2	1.75
(1,228)	1:B:13:THR:CB	1:C:19:LEU:CG	2	1.75
(1,228)	1:B:13:THR:CB	1:D:19:LEU:CG	2	1.75
(1,228)	1:B:13:THR:CB	1:E:19:LEU:CG	2	1.75
(1,228)	1:C:13:THR:CB	1:A:19:LEU:CG	2	1.75
(1,228)	1:C:13:THR:CB	1:B:19:LEU:CG	2	1.75
(1,228)	1:C:13:THR:CB	1:C:19:LEU:CG	2	1.75
(1,228)	1:C:13:THR:CB	1:D:19:LEU:CG	2	1.75
(1,228)	1:C:13:THR:CB	1:E:19:LEU:CG	2	1.75
(1,228)	1:D:13:THR:CB	1:A:19:LEU:CG	2	1.75
(1,228)	1:D:13:THR:CB	1:B:19:LEU:CG	2	1.75
(1,228)	1:D:13:THR:CB	1:C:19:LEU:CG	2	1.75
(1,228)	1:D:13:THR:CB	1:D:19:LEU:CG	2	1.75
(1,228)	1:D:13:THR:CB	1:E:19:LEU:CG	2	1.75
(1,228)	1:E:13:THR:CB	1:A:19:LEU:CG	2	1.75
(1,228)	1:E:13:THR:CB	1:B:19:LEU:CG	2	1.75
(1,228)	1:E:13:THR:CB	1:C:19:LEU:CG	2	1.75
(1,228)	1:E:13:THR:CB	1:D:19:LEU:CG	2	1.75
(1,228)	1:E:13:THR:CB	1:E:19:LEU:CG	2	1.75
(1,228)	1:A:13:THR:CB	1:A:19:LEU:CG	3	1.75
(1,228)	1:A:13:THR:CB	1:B:19:LEU:CG	3	1.75
(1,228)	1:A:13:THR:CB	1:C:19:LEU:CG	3	1.75
(1,228)	1:A:13:THR:CB	1:D:19:LEU:CG	3	1.75
(1,228)	1:A:13:THR:CB	1:E:19:LEU:CG	3	1.75
(1,228)	1:B:13:THR:CB	1:A:19:LEU:CG	3	1.75
(1,228)	1:B:13:THR:CB	1:B:19:LEU:CG	3	1.75
(1,228)	1:B:13:THR:CB	1:C:19:LEU:CG	3	1.75
(1,228)	1:B:13:THR:CB	1:D:19:LEU:CG	3	1.75
(1,228)	1:B:13:THR:CB	1:E:19:LEU:CG	3	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,228)	1:C:13:THR:CB	1:A:19:LEU:CG	3	1.75
(1,228)	1:C:13:THR:CB	1:B:19:LEU:CG	3	1.75
(1,228)	1:C:13:THR:CB	1:C:19:LEU:CG	3	1.75
(1,228)	1:C:13:THR:CB	1:D:19:LEU:CG	3	1.75
(1,228)	1:C:13:THR:CB	1:E:19:LEU:CG	3	1.75
(1,228)	1:D:13:THR:CB	1:A:19:LEU:CG	3	1.75
(1,228)	1:D:13:THR:CB	1:B:19:LEU:CG	3	1.75
(1,228)	1:D:13:THR:CB	1:C:19:LEU:CG	3	1.75
(1,228)	1:D:13:THR:CB	1:D:19:LEU:CG	3	1.75
(1,228)	1:D:13:THR:CB	1:E:19:LEU:CG	3	1.75
(1,228)	1:E:13:THR:CB	1:A:19:LEU:CG	3	1.75
(1,228)	1:E:13:THR:CB	1:B:19:LEU:CG	3	1.75
(1,228)	1:E:13:THR:CB	1:C:19:LEU:CG	3	1.75
(1,228)	1:E:13:THR:CB	1:D:19:LEU:CG	3	1.75
(1,228)	1:E:13:THR:CB	1:E:19:LEU:CG	3	1.75
(1,228)	1:A:13:THR:CB	1:A:19:LEU:CG	4	1.75
(1,228)	1:A:13:THR:CB	1:B:19:LEU:CG	4	1.75
(1,228)	1:A:13:THR:CB	1:C:19:LEU:CG	4	1.75
(1,228)	1:A:13:THR:CB	1:D:19:LEU:CG	4	1.75
(1,228)	1:A:13:THR:CB	1:E:19:LEU:CG	4	1.75
(1,228)	1:B:13:THR:CB	1:A:19:LEU:CG	4	1.75
(1,228)	1:B:13:THR:CB	1:B:19:LEU:CG	4	1.75
(1,228)	1:B:13:THR:CB	1:C:19:LEU:CG	4	1.75
(1,228)	1:B:13:THR:CB	1:D:19:LEU:CG	4	1.75
(1,228)	1:B:13:THR:CB	1:E:19:LEU:CG	4	1.75
(1,228)	1:C:13:THR:CB	1:A:19:LEU:CG	4	1.75
(1,228)	1:C:13:THR:CB	1:B:19:LEU:CG	4	1.75
(1,228)	1:C:13:THR:CB	1:C:19:LEU:CG	4	1.75
(1,228)	1:C:13:THR:CB	1:D:19:LEU:CG	4	1.75
(1,228)	1:C:13:THR:CB	1:E:19:LEU:CG	4	1.75
(1,228)	1:D:13:THR:CB	1:A:19:LEU:CG	4	1.75
(1,228)	1:D:13:THR:CB	1:B:19:LEU:CG	4	1.75
(1,228)	1:D:13:THR:CB	1:C:19:LEU:CG	4	1.75
(1,228)	1:D:13:THR:CB	1:D:19:LEU:CG	4	1.75
(1,228)	1:D:13:THR:CB	1:E:19:LEU:CG	4	1.75
(1,228)	1:E:13:THR:CB	1:A:19:LEU:CG	4	1.75
(1,228)	1:E:13:THR:CB	1:B:19:LEU:CG	4	1.75
(1,228)	1:E:13:THR:CB	1:C:19:LEU:CG	4	1.75
(1,228)	1:E:13:THR:CB	1:D:19:LEU:CG	4	1.75
(1,228)	1:E:13:THR:CB	1:E:19:LEU:CG	4	1.75
(1,228)	1:A:13:THR:CB	1:A:19:LEU:CG	5	1.75
(1,228)	1:A:13:THR:CB	1:B:19:LEU:CG	5	1.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,228)	1:A:13:THR:CB	1:C:19:LEU:CG	5	1.75
(1,228)	1:A:13:THR:CB	1:D:19:LEU:CG	5	1.75
(1,228)	1:A:13:THR:CB	1:E:19:LEU:CG	5	1.75
(1,228)	1:B:13:THR:CB	1:A:19:LEU:CG	5	1.75
(1,228)	1:B:13:THR:CB	1:B:19:LEU:CG	5	1.75
(1,228)	1:B:13:THR:CB	1:C:19:LEU:CG	5	1.75
(1,228)	1:B:13:THR:CB	1:D:19:LEU:CG	5	1.75
(1,228)	1:B:13:THR:CB	1:E:19:LEU:CG	5	1.75
(1,228)	1:C:13:THR:CB	1:A:19:LEU:CG	5	1.75
(1,228)	1:C:13:THR:CB	1:B:19:LEU:CG	5	1.75
(1,228)	1:C:13:THR:CB	1:C:19:LEU:CG	5	1.75
(1,228)	1:C:13:THR:CB	1:D:19:LEU:CG	5	1.75
(1,228)	1:C:13:THR:CB	1:E:19:LEU:CG	5	1.75
(1,228)	1:D:13:THR:CB	1:A:19:LEU:CG	5	1.75
(1,228)	1:D:13:THR:CB	1:B:19:LEU:CG	5	1.75
(1,228)	1:D:13:THR:CB	1:C:19:LEU:CG	5	1.75
(1,228)	1:D:13:THR:CB	1:D:19:LEU:CG	5	1.75
(1,228)	1:D:13:THR:CB	1:E:19:LEU:CG	5	1.75
(1,228)	1:E:13:THR:CB	1:A:19:LEU:CG	5	1.75
(1,228)	1:E:13:THR:CB	1:B:19:LEU:CG	5	1.75
(1,228)	1:E:13:THR:CB	1:C:19:LEU:CG	5	1.75
(1,228)	1:E:13:THR:CB	1:D:19:LEU:CG	5	1.75
(1,228)	1:E:13:THR:CB	1:E:19:LEU:CG	5	1.75
(1,228)	1:A:13:THR:CB	1:A:19:LEU:CG	1	1.74
(1,228)	1:A:13:THR:CB	1:B:19:LEU:CG	1	1.74
(1,228)	1:A:13:THR:CB	1:C:19:LEU:CG	1	1.74
(1,228)	1:A:13:THR:CB	1:D:19:LEU:CG	1	1.74
(1,228)	1:A:13:THR:CB	1:E:19:LEU:CG	1	1.74
(1,228)	1:B:13:THR:CB	1:A:19:LEU:CG	1	1.74
(1,228)	1:B:13:THR:CB	1:B:19:LEU:CG	1	1.74
(1,228)	1:B:13:THR:CB	1:C:19:LEU:CG	1	1.74
(1,228)	1:B:13:THR:CB	1:D:19:LEU:CG	1	1.74
(1,228)	1:B:13:THR:CB	1:E:19:LEU:CG	1	1.74
(1,228)	1:C:13:THR:CB	1:A:19:LEU:CG	1	1.74
(1,228)	1:C:13:THR:CB	1:B:19:LEU:CG	1	1.74
(1,228)	1:C:13:THR:CB	1:C:19:LEU:CG	1	1.74
(1,228)	1:C:13:THR:CB	1:D:19:LEU:CG	1	1.74
(1,228)	1:C:13:THR:CB	1:E:19:LEU:CG	1	1.74
(1,228)	1:D:13:THR:CB	1:A:19:LEU:CG	1	1.74
(1,228)	1:D:13:THR:CB	1:B:19:LEU:CG	1	1.74
(1,228)	1:D:13:THR:CB	1:C:19:LEU:CG	1	1.74
(1,228)	1:D:13:THR:CB	1:D:19:LEU:CG	1	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,228)	1:D:13:THR:CB	1:E:19:LEU:CG	1	1.74
(1,228)	1:E:13:THR:CB	1:A:19:LEU:CG	1	1.74
(1,228)	1:E:13:THR:CB	1:B:19:LEU:CG	1	1.74
(1,228)	1:E:13:THR:CB	1:C:19:LEU:CG	1	1.74
(1,228)	1:E:13:THR:CB	1:D:19:LEU:CG	1	1.74
(1,228)	1:E:13:THR:CB	1:E:19:LEU:CG	1	1.74
(1,225)	1:A:10:VAL:CB	1:A:47:VAL:CG1	5	1.71
(1,225)	1:A:10:VAL:CB	1:B:47:VAL:CG1	5	1.71
(1,225)	1:A:10:VAL:CB	1:C:47:VAL:CG1	5	1.71
(1,225)	1:A:10:VAL:CB	1:D:47:VAL:CG1	5	1.71
(1,225)	1:A:10:VAL:CB	1:E:47:VAL:CG1	5	1.71
(1,225)	1:B:10:VAL:CB	1:A:47:VAL:CG1	5	1.71
(1,225)	1:B:10:VAL:CB	1:B:47:VAL:CG1	5	1.71
(1,225)	1:B:10:VAL:CB	1:C:47:VAL:CG1	5	1.71
(1,225)	1:B:10:VAL:CB	1:D:47:VAL:CG1	5	1.71
(1,225)	1:B:10:VAL:CB	1:E:47:VAL:CG1	5	1.71
(1,225)	1:C:10:VAL:CB	1:A:47:VAL:CG1	5	1.71
(1,225)	1:C:10:VAL:CB	1:B:47:VAL:CG1	5	1.71
(1,225)	1:C:10:VAL:CB	1:C:47:VAL:CG1	5	1.71
(1,225)	1:C:10:VAL:CB	1:D:47:VAL:CG1	5	1.71
(1,225)	1:C:10:VAL:CB	1:E:47:VAL:CG1	5	1.71
(1,225)	1:D:10:VAL:CB	1:A:47:VAL:CG1	5	1.71
(1,225)	1:D:10:VAL:CB	1:B:47:VAL:CG1	5	1.71
(1,225)	1:D:10:VAL:CB	1:C:47:VAL:CG1	5	1.71
(1,225)	1:D:10:VAL:CB	1:D:47:VAL:CG1	5	1.71
(1,225)	1:D:10:VAL:CB	1:E:47:VAL:CG1	5	1.71
(1,225)	1:E:10:VAL:CB	1:A:47:VAL:CG1	5	1.71
(1,225)	1:E:10:VAL:CB	1:B:47:VAL:CG1	5	1.71
(1,225)	1:E:10:VAL:CB	1:C:47:VAL:CG1	5	1.71
(1,225)	1:E:10:VAL:CB	1:D:47:VAL:CG1	5	1.71
(1,225)	1:E:10:VAL:CB	1:E:47:VAL:CG1	5	1.71
(2,23)	1:A:18:THR:O	1:A:77:LYS:NZ	5	1.18
(2,23)	1:A:18:THR:O	1:B:77:LYS:NZ	5	1.18
(2,23)	1:A:18:THR:O	1:C:77:LYS:NZ	5	1.18
(2,23)	1:A:18:THR:O	1:D:77:LYS:NZ	5	1.18
(2,23)	1:A:18:THR:O	1:E:77:LYS:NZ	5	1.18
(2,23)	1:B:18:THR:O	1:A:77:LYS:NZ	5	1.18
(2,23)	1:B:18:THR:O	1:B:77:LYS:NZ	5	1.18
(2,23)	1:B:18:THR:O	1:C:77:LYS:NZ	5	1.18
(2,23)	1:B:18:THR:O	1:D:77:LYS:NZ	5	1.18
(2,23)	1:B:18:THR:O	1:E:77:LYS:NZ	5	1.18
(2,23)	1:C:18:THR:O	1:A:77:LYS:NZ	5	1.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,23)	1:C:18:THR:O	1:B:77:LYS:NZ	5	1.18
(2,23)	1:C:18:THR:O	1:C:77:LYS:NZ	5	1.18
(2,23)	1:C:18:THR:O	1:D:77:LYS:NZ	5	1.18
(2,23)	1:C:18:THR:O	1:E:77:LYS:NZ	5	1.18
(2,23)	1:D:18:THR:O	1:A:77:LYS:NZ	5	1.18
(2,23)	1:D:18:THR:O	1:B:77:LYS:NZ	5	1.18
(2,23)	1:D:18:THR:O	1:C:77:LYS:NZ	5	1.18
(2,23)	1:D:18:THR:O	1:D:77:LYS:NZ	5	1.18
(2,23)	1:D:18:THR:O	1:E:77:LYS:NZ	5	1.18
(2,23)	1:E:18:THR:O	1:A:77:LYS:NZ	5	1.18
(2,23)	1:E:18:THR:O	1:B:77:LYS:NZ	5	1.18
(2,23)	1:E:18:THR:O	1:C:77:LYS:NZ	5	1.18
(2,23)	1:E:18:THR:O	1:D:77:LYS:NZ	5	1.18
(2,23)	1:E:18:THR:O	1:E:77:LYS:NZ	5	1.18
(2,23)	1:A:18:THR:O	1:A:77:LYS:NZ	1	1.09
(2,23)	1:A:18:THR:O	1:B:77:LYS:NZ	1	1.09
(2,23)	1:A:18:THR:O	1:C:77:LYS:NZ	1	1.09
(2,23)	1:A:18:THR:O	1:D:77:LYS:NZ	1	1.09
(2,23)	1:A:18:THR:O	1:E:77:LYS:NZ	1	1.09
(2,23)	1:B:18:THR:O	1:A:77:LYS:NZ	1	1.09
(2,23)	1:B:18:THR:O	1:B:77:LYS:NZ	1	1.09
(2,23)	1:B:18:THR:O	1:C:77:LYS:NZ	1	1.09
(2,23)	1:B:18:THR:O	1:D:77:LYS:NZ	1	1.09
(2,23)	1:B:18:THR:O	1:E:77:LYS:NZ	1	1.09
(2,23)	1:C:18:THR:O	1:A:77:LYS:NZ	1	1.09
(2,23)	1:C:18:THR:O	1:B:77:LYS:NZ	1	1.09
(2,23)	1:C:18:THR:O	1:C:77:LYS:NZ	1	1.09
(2,23)	1:C:18:THR:O	1:D:77:LYS:NZ	1	1.09
(2,23)	1:C:18:THR:O	1:E:77:LYS:NZ	1	1.09
(2,23)	1:D:18:THR:O	1:A:77:LYS:NZ	1	1.09
(2,23)	1:D:18:THR:O	1:B:77:LYS:NZ	1	1.09
(2,23)	1:D:18:THR:O	1:C:77:LYS:NZ	1	1.09
(2,23)	1:D:18:THR:O	1:D:77:LYS:NZ	1	1.09
(2,23)	1:D:18:THR:O	1:E:77:LYS:NZ	1	1.09
(2,23)	1:E:18:THR:O	1:A:77:LYS:NZ	1	1.09
(2,23)	1:E:18:THR:O	1:B:77:LYS:NZ	1	1.09
(2,23)	1:E:18:THR:O	1:C:77:LYS:NZ	1	1.09
(2,23)	1:E:18:THR:O	1:D:77:LYS:NZ	1	1.09
(2,23)	1:E:18:THR:O	1:E:77:LYS:NZ	1	1.09
(1,289)	1:A:80:ASP:CA	1:A:72:ILE:CG1	3	1.02
(1,289)	1:A:80:ASP:CA	1:B:72:ILE:CG1	3	1.02
(1,289)	1:A:80:ASP:CA	1:C:72:ILE:CG1	3	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:A:80:ASP:CA	1:D:72:ILE:CG1	3	1.02
(1,289)	1:A:80:ASP:CA	1:E:72:ILE:CG1	3	1.02
(1,289)	1:B:80:ASP:CA	1:A:72:ILE:CG1	3	1.02
(1,289)	1:B:80:ASP:CA	1:B:72:ILE:CG1	3	1.02
(1,289)	1:B:80:ASP:CA	1:C:72:ILE:CG1	3	1.02
(1,289)	1:B:80:ASP:CA	1:D:72:ILE:CG1	3	1.02
(1,289)	1:B:80:ASP:CA	1:E:72:ILE:CG1	3	1.02
(1,289)	1:C:80:ASP:CA	1:A:72:ILE:CG1	3	1.02
(1,289)	1:C:80:ASP:CA	1:B:72:ILE:CG1	3	1.02
(1,289)	1:C:80:ASP:CA	1:C:72:ILE:CG1	3	1.02
(1,289)	1:C:80:ASP:CA	1:D:72:ILE:CG1	3	1.02
(1,289)	1:C:80:ASP:CA	1:E:72:ILE:CG1	3	1.02
(1,289)	1:D:80:ASP:CA	1:A:72:ILE:CG1	3	1.02
(1,289)	1:D:80:ASP:CA	1:B:72:ILE:CG1	3	1.02
(1,289)	1:D:80:ASP:CA	1:C:72:ILE:CG1	3	1.02
(1,289)	1:D:80:ASP:CA	1:D:72:ILE:CG1	3	1.02
(1,289)	1:D:80:ASP:CA	1:E:72:ILE:CG1	3	1.02
(1,289)	1:E:80:ASP:CA	1:A:72:ILE:CG1	3	1.02
(1,289)	1:E:80:ASP:CA	1:B:72:ILE:CG1	3	1.02
(1,289)	1:E:80:ASP:CA	1:C:72:ILE:CG1	3	1.02
(1,289)	1:E:80:ASP:CA	1:D:72:ILE:CG1	3	1.02
(1,289)	1:E:80:ASP:CA	1:E:72:ILE:CG1	3	1.02
(1,289)	1:A:80:ASP:CA	1:A:72:ILE:CG1	5	1.02
(1,289)	1:A:80:ASP:CA	1:B:72:ILE:CG1	5	1.02
(1,289)	1:A:80:ASP:CA	1:C:72:ILE:CG1	5	1.02
(1,289)	1:A:80:ASP:CA	1:D:72:ILE:CG1	5	1.02
(1,289)	1:A:80:ASP:CA	1:E:72:ILE:CG1	5	1.02
(1,289)	1:B:80:ASP:CA	1:A:72:ILE:CG1	5	1.02
(1,289)	1:B:80:ASP:CA	1:B:72:ILE:CG1	5	1.02
(1,289)	1:B:80:ASP:CA	1:C:72:ILE:CG1	5	1.02
(1,289)	1:B:80:ASP:CA	1:D:72:ILE:CG1	5	1.02
(1,289)	1:B:80:ASP:CA	1:E:72:ILE:CG1	5	1.02
(1,289)	1:C:80:ASP:CA	1:A:72:ILE:CG1	5	1.02
(1,289)	1:C:80:ASP:CA	1:B:72:ILE:CG1	5	1.02
(1,289)	1:C:80:ASP:CA	1:C:72:ILE:CG1	5	1.02
(1,289)	1:C:80:ASP:CA	1:D:72:ILE:CG1	5	1.02
(1,289)	1:C:80:ASP:CA	1:E:72:ILE:CG1	5	1.02
(1,289)	1:D:80:ASP:CA	1:A:72:ILE:CG1	5	1.02
(1,289)	1:D:80:ASP:CA	1:B:72:ILE:CG1	5	1.02
(1,289)	1:D:80:ASP:CA	1:C:72:ILE:CG1	5	1.02
(1,289)	1:D:80:ASP:CA	1:D:72:ILE:CG1	5	1.02
(1,289)	1:D:80:ASP:CA	1:E:72:ILE:CG1	5	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:E:80:ASP:CA	1:A:72:ILE:CG1	5	1.02
(1,289)	1:E:80:ASP:CA	1:B:72:ILE:CG1	5	1.02
(1,289)	1:E:80:ASP:CA	1:C:72:ILE:CG1	5	1.02
(1,289)	1:E:80:ASP:CA	1:D:72:ILE:CG1	5	1.02
(1,289)	1:E:80:ASP:CA	1:E:72:ILE:CG1	5	1.02
(1,289)	1:A:80:ASP:CA	1:A:72:ILE:CG1	2	1.01
(1,289)	1:A:80:ASP:CA	1:B:72:ILE:CG1	2	1.01
(1,289)	1:A:80:ASP:CA	1:C:72:ILE:CG1	2	1.01
(1,289)	1:A:80:ASP:CA	1:D:72:ILE:CG1	2	1.01
(1,289)	1:A:80:ASP:CA	1:E:72:ILE:CG1	2	1.01
(1,289)	1:B:80:ASP:CA	1:A:72:ILE:CG1	2	1.01
(1,289)	1:B:80:ASP:CA	1:B:72:ILE:CG1	2	1.01
(1,289)	1:B:80:ASP:CA	1:C:72:ILE:CG1	2	1.01
(1,289)	1:B:80:ASP:CA	1:D:72:ILE:CG1	2	1.01
(1,289)	1:B:80:ASP:CA	1:E:72:ILE:CG1	2	1.01
(1,289)	1:C:80:ASP:CA	1:A:72:ILE:CG1	2	1.01
(1,289)	1:C:80:ASP:CA	1:B:72:ILE:CG1	2	1.01
(1,289)	1:C:80:ASP:CA	1:C:72:ILE:CG1	2	1.01
(1,289)	1:C:80:ASP:CA	1:D:72:ILE:CG1	2	1.01
(1,289)	1:C:80:ASP:CA	1:E:72:ILE:CG1	2	1.01
(1,289)	1:D:80:ASP:CA	1:A:72:ILE:CG1	2	1.01
(1,289)	1:D:80:ASP:CA	1:B:72:ILE:CG1	2	1.01
(1,289)	1:D:80:ASP:CA	1:C:72:ILE:CG1	2	1.01
(1,289)	1:D:80:ASP:CA	1:D:72:ILE:CG1	2	1.01
(1,289)	1:D:80:ASP:CA	1:E:72:ILE:CG1	2	1.01
(1,289)	1:E:80:ASP:CA	1:A:72:ILE:CG1	2	1.01
(1,289)	1:E:80:ASP:CA	1:B:72:ILE:CG1	2	1.01
(1,289)	1:E:80:ASP:CA	1:C:72:ILE:CG1	2	1.01
(1,289)	1:E:80:ASP:CA	1:D:72:ILE:CG1	2	1.01
(1,289)	1:E:80:ASP:CA	1:E:72:ILE:CG1	2	1.01
(1,289)	1:A:80:ASP:CA	1:A:72:ILE:CG1	4	1.01
(1,289)	1:A:80:ASP:CA	1:B:72:ILE:CG1	4	1.01
(1,289)	1:A:80:ASP:CA	1:C:72:ILE:CG1	4	1.01
(1,289)	1:A:80:ASP:CA	1:D:72:ILE:CG1	4	1.01
(1,289)	1:A:80:ASP:CA	1:E:72:ILE:CG1	4	1.01
(1,289)	1:B:80:ASP:CA	1:A:72:ILE:CG1	4	1.01
(1,289)	1:B:80:ASP:CA	1:B:72:ILE:CG1	4	1.01
(1,289)	1:B:80:ASP:CA	1:C:72:ILE:CG1	4	1.01
(1,289)	1:B:80:ASP:CA	1:D:72:ILE:CG1	4	1.01
(1,289)	1:B:80:ASP:CA	1:E:72:ILE:CG1	4	1.01
(1,289)	1:C:80:ASP:CA	1:A:72:ILE:CG1	4	1.01
(1,289)	1:C:80:ASP:CA	1:B:72:ILE:CG1	4	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:C:80:ASP:CA	1:C:72:ILE:CG1	4	1.01
(1,289)	1:C:80:ASP:CA	1:D:72:ILE:CG1	4	1.01
(1,289)	1:C:80:ASP:CA	1:E:72:ILE:CG1	4	1.01
(1,289)	1:D:80:ASP:CA	1:A:72:ILE:CG1	4	1.01
(1,289)	1:D:80:ASP:CA	1:B:72:ILE:CG1	4	1.01
(1,289)	1:D:80:ASP:CA	1:C:72:ILE:CG1	4	1.01
(1,289)	1:D:80:ASP:CA	1:D:72:ILE:CG1	4	1.01
(1,289)	1:D:80:ASP:CA	1:E:72:ILE:CG1	4	1.01
(1,289)	1:E:80:ASP:CA	1:A:72:ILE:CG1	4	1.01
(1,289)	1:E:80:ASP:CA	1:B:72:ILE:CG1	4	1.01
(1,289)	1:E:80:ASP:CA	1:C:72:ILE:CG1	4	1.01
(1,289)	1:E:80:ASP:CA	1:D:72:ILE:CG1	4	1.01
(1,289)	1:E:80:ASP:CA	1:E:72:ILE:CG1	4	1.01
(1,289)	1:A:80:ASP:CA	1:A:72:ILE:CG1	1	0.99
(1,289)	1:A:80:ASP:CA	1:B:72:ILE:CG1	1	0.99
(1,289)	1:A:80:ASP:CA	1:C:72:ILE:CG1	1	0.99
(1,289)	1:A:80:ASP:CA	1:D:72:ILE:CG1	1	0.99
(1,289)	1:A:80:ASP:CA	1:E:72:ILE:CG1	1	0.99
(1,289)	1:B:80:ASP:CA	1:A:72:ILE:CG1	1	0.99
(1,289)	1:B:80:ASP:CA	1:B:72:ILE:CG1	1	0.99
(1,289)	1:B:80:ASP:CA	1:C:72:ILE:CG1	1	0.99
(1,289)	1:B:80:ASP:CA	1:D:72:ILE:CG1	1	0.99
(1,289)	1:B:80:ASP:CA	1:E:72:ILE:CG1	1	0.99
(1,289)	1:C:80:ASP:CA	1:A:72:ILE:CG1	1	0.99
(1,289)	1:C:80:ASP:CA	1:B:72:ILE:CG1	1	0.99
(1,289)	1:C:80:ASP:CA	1:C:72:ILE:CG1	1	0.99
(1,289)	1:C:80:ASP:CA	1:D:72:ILE:CG1	1	0.99
(1,289)	1:C:80:ASP:CA	1:E:72:ILE:CG1	1	0.99
(1,289)	1:D:80:ASP:CA	1:A:72:ILE:CG1	1	0.99
(1,289)	1:D:80:ASP:CA	1:B:72:ILE:CG1	1	0.99
(1,289)	1:D:80:ASP:CA	1:C:72:ILE:CG1	1	0.99
(1,289)	1:D:80:ASP:CA	1:D:72:ILE:CG1	1	0.99
(1,289)	1:D:80:ASP:CA	1:E:72:ILE:CG1	1	0.99
(1,289)	1:E:80:ASP:CA	1:A:72:ILE:CG1	1	0.99
(1,289)	1:E:80:ASP:CA	1:B:72:ILE:CG1	1	0.99
(1,289)	1:E:80:ASP:CA	1:C:72:ILE:CG1	1	0.99
(1,289)	1:E:80:ASP:CA	1:D:72:ILE:CG1	1	0.99
(1,289)	1:E:80:ASP:CA	1:E:72:ILE:CG1	1	0.99
(2,70)	1:A:64:ARG:NH1	1:A:46:GLU:OE2	1	0.98
(2,70)	1:A:64:ARG:NH1	1:B:46:GLU:OE2	1	0.98
(2,70)	1:A:64:ARG:NH1	1:C:46:GLU:OE2	1	0.98
(2,70)	1:A:64:ARG:NH1	1:D:46:GLU:OE2	1	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:A:64:ARG:NH1	1:E:46:GLU:OE2	1	0.98
(2,70)	1:B:64:ARG:NH1	1:A:46:GLU:OE2	1	0.98
(2,70)	1:B:64:ARG:NH1	1:B:46:GLU:OE2	1	0.98
(2,70)	1:B:64:ARG:NH1	1:C:46:GLU:OE2	1	0.98
(2,70)	1:B:64:ARG:NH1	1:D:46:GLU:OE2	1	0.98
(2,70)	1:B:64:ARG:NH1	1:E:46:GLU:OE2	1	0.98
(2,70)	1:C:64:ARG:NH1	1:A:46:GLU:OE2	1	0.98
(2,70)	1:C:64:ARG:NH1	1:B:46:GLU:OE2	1	0.98
(2,70)	1:C:64:ARG:NH1	1:C:46:GLU:OE2	1	0.98
(2,70)	1:C:64:ARG:NH1	1:D:46:GLU:OE2	1	0.98
(2,70)	1:C:64:ARG:NH1	1:E:46:GLU:OE2	1	0.98
(2,70)	1:D:64:ARG:NH1	1:A:46:GLU:OE2	1	0.98
(2,70)	1:D:64:ARG:NH1	1:B:46:GLU:OE2	1	0.98
(2,70)	1:D:64:ARG:NH1	1:C:46:GLU:OE2	1	0.98
(2,70)	1:D:64:ARG:NH1	1:D:46:GLU:OE2	1	0.98
(2,70)	1:D:64:ARG:NH1	1:E:46:GLU:OE2	1	0.98
(2,70)	1:E:64:ARG:NH1	1:A:46:GLU:OE2	1	0.98
(2,70)	1:E:64:ARG:NH1	1:B:46:GLU:OE2	1	0.98
(2,70)	1:E:64:ARG:NH1	1:C:46:GLU:OE2	1	0.98
(2,70)	1:E:64:ARG:NH1	1:D:46:GLU:OE2	1	0.98
(2,70)	1:E:64:ARG:NH1	1:E:46:GLU:OE2	1	0.98
(2,41)	1:A:46:GLU:OE2	1:A:64:ARG:NH1	1	0.98
(2,41)	1:A:46:GLU:OE2	1:B:64:ARG:NH1	1	0.98
(2,41)	1:A:46:GLU:OE2	1:C:64:ARG:NH1	1	0.98
(2,41)	1:A:46:GLU:OE2	1:D:64:ARG:NH1	1	0.98
(2,41)	1:A:46:GLU:OE2	1:E:64:ARG:NH1	1	0.98
(2,41)	1:B:46:GLU:OE2	1:A:64:ARG:NH1	1	0.98
(2,41)	1:B:46:GLU:OE2	1:B:64:ARG:NH1	1	0.98
(2,41)	1:B:46:GLU:OE2	1:C:64:ARG:NH1	1	0.98
(2,41)	1:B:46:GLU:OE2	1:D:64:ARG:NH1	1	0.98
(2,41)	1:B:46:GLU:OE2	1:E:64:ARG:NH1	1	0.98
(2,41)	1:C:46:GLU:OE2	1:A:64:ARG:NH1	1	0.98
(2,41)	1:C:46:GLU:OE2	1:B:64:ARG:NH1	1	0.98
(2,41)	1:C:46:GLU:OE2	1:C:64:ARG:NH1	1	0.98
(2,41)	1:C:46:GLU:OE2	1:D:64:ARG:NH1	1	0.98
(2,41)	1:C:46:GLU:OE2	1:E:64:ARG:NH1	1	0.98
(2,41)	1:D:46:GLU:OE2	1:A:64:ARG:NH1	1	0.98
(2,41)	1:D:46:GLU:OE2	1:B:64:ARG:NH1	1	0.98
(2,41)	1:D:46:GLU:OE2	1:C:64:ARG:NH1	1	0.98
(2,41)	1:D:46:GLU:OE2	1:D:64:ARG:NH1	1	0.98
(2,41)	1:D:46:GLU:OE2	1:E:64:ARG:NH1	1	0.98
(2,41)	1:E:46:GLU:OE2	1:A:64:ARG:NH1	1	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,41)	1:E:46:GLU:OE2	1:B:64:ARG:NH1	1	0.98
(2,41)	1:E:46:GLU:OE2	1:C:64:ARG:NH1	1	0.98
(2,41)	1:E:46:GLU:OE2	1:D:64:ARG:NH1	1	0.98
(2,41)	1:E:46:GLU:OE2	1:E:64:ARG:NH1	1	0.98
(3,50)	1:B:71:ILE:CA	1:A:19:LEU:CB	1	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,50)	1:B:71:ILE:CA	1:A:19:LEU:CB	2	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,50)	1:B:71:ILE:CA	1:A:19:LEU:CB	3	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,50)	1:B:71:ILE:CA	1:A:19:LEU:CB	4	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,50)	1:B:71:ILE:CA	1:A:19:LEU:CB	5	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,50)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,49)	1:B:71:ILE:CA	1:A:19:LEU:CB	1	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,49)	1:B:71:ILE:CA	1:A:19:LEU:CB	2	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,49)	1:B:71:ILE:CA	1:A:19:LEU:CB	3	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,49)	1:B:71:ILE:CA	1:A:19:LEU:CB	4	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,49)	1:B:71:ILE:CA	1:A:19:LEU:CB	5	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,49)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,48)	1:B:71:ILE:CA	1:A:19:LEU:CB	1	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,48)	1:B:71:ILE:CA	1:A:19:LEU:CB	2	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,48)	1:B:71:ILE:CA	1:A:19:LEU:CB	3	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,48)	1:B:71:ILE:CA	1:A:19:LEU:CB	4	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,48)	1:B:71:ILE:CA	1:A:19:LEU:CB	5	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,48)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,47)	1:B:71:ILE:CA	1:A:19:LEU:CB	1	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	1	0.69
(3,47)	1:B:71:ILE:CA	1:A:19:LEU:CB	2	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	2	0.69
(3,47)	1:B:71:ILE:CA	1:A:19:LEU:CB	3	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	3	0.69
(3,47)	1:B:71:ILE:CA	1:A:19:LEU:CB	4	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	4	0.69
(3,47)	1:B:71:ILE:CA	1:A:19:LEU:CB	5	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69
(3,47)	1:B:71:ILE:CA	1:B:19:LEU:CB	5	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,55)	1:B:71:ILE:CA	1:A:19:LEU:CG	2	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,55)	1:B:71:ILE:CA	1:A:19:LEU:CG	3	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,55)	1:B:71:ILE:CA	1:A:19:LEU:CG	4	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,55)	1:B:71:ILE:CA	1:A:19:LEU:CG	5	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,54)	1:B:71:ILE:CA	1:A:19:LEU:CG	2	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,54)	1:B:71:ILE:CA	1:A:19:LEU:CG	3	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,54)	1:B:71:ILE:CA	1:A:19:LEU:CG	4	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,54)	1:B:71:ILE:CA	1:A:19:LEU:CG	5	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,53)	1:B:71:ILE:CA	1:A:19:LEU:CG	2	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,53)	1:B:71:ILE:CA	1:A:19:LEU:CG	3	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,53)	1:B:71:ILE:CA	1:A:19:LEU:CG	4	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,53)	1:B:71:ILE:CA	1:A:19:LEU:CG	5	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,52)	1:B:71:ILE:CA	1:A:19:LEU:CG	2	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	2	0.65
(3,52)	1:B:71:ILE:CA	1:A:19:LEU:CG	3	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	3	0.65
(3,52)	1:B:71:ILE:CA	1:A:19:LEU:CG	4	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	4	0.65
(3,52)	1:B:71:ILE:CA	1:A:19:LEU:CG	5	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	5	0.65
(3,55)	1:B:71:ILE:CA	1:A:19:LEU:CG	1	0.64
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,55)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,54)	1:B:71:ILE:CA	1:A:19:LEU:CG	1	0.64
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,54)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,53)	1:B:71:ILE:CA	1:A:19:LEU:CG	1	0.64
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,53)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,52)	1:B:71:ILE:CA	1:A:19:LEU:CG	1	0.64
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(3,52)	1:B:71:ILE:CA	1:B:19:LEU:CG	1	0.64
(1,258)	1:A:50:ASP:CA	1:A:86:ILE:CG1	1	0.62
(1,258)	1:A:50:ASP:CA	1:B:86:ILE:CG1	1	0.62
(1,258)	1:A:50:ASP:CA	1:C:86:ILE:CG1	1	0.62
(1,258)	1:A:50:ASP:CA	1:D:86:ILE:CG1	1	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	1:A:50:ASP:CA	1:E:86:ILE:CG1	1	0.62
(1,258)	1:B:50:ASP:CA	1:A:86:ILE:CG1	1	0.62
(1,258)	1:B:50:ASP:CA	1:B:86:ILE:CG1	1	0.62
(1,258)	1:B:50:ASP:CA	1:C:86:ILE:CG1	1	0.62
(1,258)	1:B:50:ASP:CA	1:D:86:ILE:CG1	1	0.62
(1,258)	1:B:50:ASP:CA	1:E:86:ILE:CG1	1	0.62
(1,258)	1:C:50:ASP:CA	1:A:86:ILE:CG1	1	0.62
(1,258)	1:C:50:ASP:CA	1:B:86:ILE:CG1	1	0.62
(1,258)	1:C:50:ASP:CA	1:C:86:ILE:CG1	1	0.62
(1,258)	1:C:50:ASP:CA	1:D:86:ILE:CG1	1	0.62
(1,258)	1:C:50:ASP:CA	1:E:86:ILE:CG1	1	0.62
(1,258)	1:D:50:ASP:CA	1:A:86:ILE:CG1	1	0.62
(1,258)	1:D:50:ASP:CA	1:B:86:ILE:CG1	1	0.62
(1,258)	1:D:50:ASP:CA	1:C:86:ILE:CG1	1	0.62
(1,258)	1:D:50:ASP:CA	1:D:86:ILE:CG1	1	0.62
(1,258)	1:D:50:ASP:CA	1:E:86:ILE:CG1	1	0.62
(1,258)	1:E:50:ASP:CA	1:A:86:ILE:CG1	1	0.62
(1,258)	1:E:50:ASP:CA	1:B:86:ILE:CG1	1	0.62
(1,258)	1:E:50:ASP:CA	1:C:86:ILE:CG1	1	0.62
(1,258)	1:E:50:ASP:CA	1:D:86:ILE:CG1	1	0.62
(1,258)	1:E:50:ASP:CA	1:E:86:ILE:CG1	1	0.62
(1,215)	1:A:10:VAL:CA	1:A:15:LYS:CA	1	0.61
(1,215)	1:A:10:VAL:CA	1:B:15:LYS:CA	1	0.61
(1,215)	1:A:10:VAL:CA	1:C:15:LYS:CA	1	0.61
(1,215)	1:A:10:VAL:CA	1:D:15:LYS:CA	1	0.61
(1,215)	1:A:10:VAL:CA	1:E:15:LYS:CA	1	0.61
(1,215)	1:B:10:VAL:CA	1:A:15:LYS:CA	1	0.61
(1,215)	1:B:10:VAL:CA	1:B:15:LYS:CA	1	0.61
(1,215)	1:B:10:VAL:CA	1:C:15:LYS:CA	1	0.61
(1,215)	1:B:10:VAL:CA	1:D:15:LYS:CA	1	0.61
(1,215)	1:B:10:VAL:CA	1:E:15:LYS:CA	1	0.61
(1,215)	1:C:10:VAL:CA	1:A:15:LYS:CA	1	0.61
(1,215)	1:C:10:VAL:CA	1:B:15:LYS:CA	1	0.61
(1,215)	1:C:10:VAL:CA	1:C:15:LYS:CA	1	0.61
(1,215)	1:C:10:VAL:CA	1:D:15:LYS:CA	1	0.61
(1,215)	1:C:10:VAL:CA	1:E:15:LYS:CA	1	0.61
(1,215)	1:D:10:VAL:CA	1:A:15:LYS:CA	1	0.61
(1,215)	1:D:10:VAL:CA	1:B:15:LYS:CA	1	0.61
(1,215)	1:D:10:VAL:CA	1:C:15:LYS:CA	1	0.61
(1,215)	1:D:10:VAL:CA	1:D:15:LYS:CA	1	0.61
(1,215)	1:D:10:VAL:CA	1:E:15:LYS:CA	1	0.61
(1,215)	1:E:10:VAL:CA	1:A:15:LYS:CA	1	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,215)	1:E:10:VAL:CA	1:B:15:LYS:CA	1	0.61
(1,215)	1:E:10:VAL:CA	1:C:15:LYS:CA	1	0.61
(1,215)	1:E:10:VAL:CA	1:D:15:LYS:CA	1	0.61
(1,215)	1:E:10:VAL:CA	1:E:15:LYS:CA	1	0.61
(1,215)	1:A:10:VAL:CA	1:A:15:LYS:CA	2	0.61
(1,215)	1:A:10:VAL:CA	1:B:15:LYS:CA	2	0.61
(1,215)	1:A:10:VAL:CA	1:C:15:LYS:CA	2	0.61
(1,215)	1:A:10:VAL:CA	1:D:15:LYS:CA	2	0.61
(1,215)	1:A:10:VAL:CA	1:E:15:LYS:CA	2	0.61
(1,215)	1:B:10:VAL:CA	1:A:15:LYS:CA	2	0.61
(1,215)	1:B:10:VAL:CA	1:B:15:LYS:CA	2	0.61
(1,215)	1:B:10:VAL:CA	1:C:15:LYS:CA	2	0.61
(1,215)	1:B:10:VAL:CA	1:D:15:LYS:CA	2	0.61
(1,215)	1:B:10:VAL:CA	1:E:15:LYS:CA	2	0.61
(1,215)	1:C:10:VAL:CA	1:A:15:LYS:CA	2	0.61
(1,215)	1:C:10:VAL:CA	1:B:15:LYS:CA	2	0.61
(1,215)	1:C:10:VAL:CA	1:C:15:LYS:CA	2	0.61
(1,215)	1:C:10:VAL:CA	1:D:15:LYS:CA	2	0.61
(1,215)	1:C:10:VAL:CA	1:E:15:LYS:CA	2	0.61
(1,215)	1:D:10:VAL:CA	1:A:15:LYS:CA	2	0.61
(1,215)	1:D:10:VAL:CA	1:B:15:LYS:CA	2	0.61
(1,215)	1:D:10:VAL:CA	1:C:15:LYS:CA	2	0.61
(1,215)	1:D:10:VAL:CA	1:D:15:LYS:CA	2	0.61
(1,215)	1:D:10:VAL:CA	1:E:15:LYS:CA	2	0.61
(1,215)	1:E:10:VAL:CA	1:A:15:LYS:CA	2	0.61
(1,215)	1:E:10:VAL:CA	1:B:15:LYS:CA	2	0.61
(1,215)	1:E:10:VAL:CA	1:C:15:LYS:CA	2	0.61
(1,215)	1:E:10:VAL:CA	1:D:15:LYS:CA	2	0.61
(1,215)	1:E:10:VAL:CA	1:E:15:LYS:CA	2	0.61
(1,215)	1:A:10:VAL:CA	1:A:15:LYS:CA	3	0.61
(1,215)	1:A:10:VAL:CA	1:B:15:LYS:CA	3	0.61
(1,215)	1:A:10:VAL:CA	1:C:15:LYS:CA	3	0.61
(1,215)	1:A:10:VAL:CA	1:D:15:LYS:CA	3	0.61
(1,215)	1:A:10:VAL:CA	1:E:15:LYS:CA	3	0.61
(1,215)	1:B:10:VAL:CA	1:A:15:LYS:CA	3	0.61
(1,215)	1:B:10:VAL:CA	1:B:15:LYS:CA	3	0.61
(1,215)	1:B:10:VAL:CA	1:C:15:LYS:CA	3	0.61
(1,215)	1:B:10:VAL:CA	1:D:15:LYS:CA	3	0.61
(1,215)	1:B:10:VAL:CA	1:E:15:LYS:CA	3	0.61
(1,215)	1:C:10:VAL:CA	1:A:15:LYS:CA	3	0.61
(1,215)	1:C:10:VAL:CA	1:B:15:LYS:CA	3	0.61
(1,215)	1:C:10:VAL:CA	1:C:15:LYS:CA	3	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,215)	1:C:10:VAL:CA	1:D:15:LYS:CA	3	0.61
(1,215)	1:C:10:VAL:CA	1:E:15:LYS:CA	3	0.61
(1,215)	1:D:10:VAL:CA	1:A:15:LYS:CA	3	0.61
(1,215)	1:D:10:VAL:CA	1:B:15:LYS:CA	3	0.61
(1,215)	1:D:10:VAL:CA	1:C:15:LYS:CA	3	0.61
(1,215)	1:D:10:VAL:CA	1:D:15:LYS:CA	3	0.61
(1,215)	1:D:10:VAL:CA	1:E:15:LYS:CA	3	0.61
(1,215)	1:E:10:VAL:CA	1:A:15:LYS:CA	3	0.61
(1,215)	1:E:10:VAL:CA	1:B:15:LYS:CA	3	0.61
(1,215)	1:E:10:VAL:CA	1:C:15:LYS:CA	3	0.61
(1,215)	1:E:10:VAL:CA	1:D:15:LYS:CA	3	0.61
(1,215)	1:E:10:VAL:CA	1:E:15:LYS:CA	3	0.61
(1,215)	1:A:10:VAL:CA	1:A:15:LYS:CA	4	0.61
(1,215)	1:A:10:VAL:CA	1:B:15:LYS:CA	4	0.61
(1,215)	1:A:10:VAL:CA	1:C:15:LYS:CA	4	0.61
(1,215)	1:A:10:VAL:CA	1:D:15:LYS:CA	4	0.61
(1,215)	1:A:10:VAL:CA	1:E:15:LYS:CA	4	0.61
(1,215)	1:B:10:VAL:CA	1:A:15:LYS:CA	4	0.61
(1,215)	1:B:10:VAL:CA	1:B:15:LYS:CA	4	0.61
(1,215)	1:B:10:VAL:CA	1:C:15:LYS:CA	4	0.61
(1,215)	1:B:10:VAL:CA	1:D:15:LYS:CA	4	0.61
(1,215)	1:B:10:VAL:CA	1:E:15:LYS:CA	4	0.61
(1,215)	1:C:10:VAL:CA	1:A:15:LYS:CA	4	0.61
(1,215)	1:C:10:VAL:CA	1:B:15:LYS:CA	4	0.61
(1,215)	1:C:10:VAL:CA	1:C:15:LYS:CA	4	0.61
(1,215)	1:C:10:VAL:CA	1:D:15:LYS:CA	4	0.61
(1,215)	1:C:10:VAL:CA	1:E:15:LYS:CA	4	0.61
(1,215)	1:D:10:VAL:CA	1:A:15:LYS:CA	4	0.61
(1,215)	1:D:10:VAL:CA	1:B:15:LYS:CA	4	0.61
(1,215)	1:D:10:VAL:CA	1:C:15:LYS:CA	4	0.61
(1,215)	1:D:10:VAL:CA	1:D:15:LYS:CA	4	0.61
(1,215)	1:D:10:VAL:CA	1:E:15:LYS:CA	4	0.61
(1,215)	1:E:10:VAL:CA	1:A:15:LYS:CA	4	0.61
(1,215)	1:E:10:VAL:CA	1:B:15:LYS:CA	4	0.61
(1,215)	1:E:10:VAL:CA	1:C:15:LYS:CA	4	0.61
(1,215)	1:E:10:VAL:CA	1:D:15:LYS:CA	4	0.61
(1,215)	1:E:10:VAL:CA	1:E:15:LYS:CA	4	0.61
(1,215)	1:A:10:VAL:CA	1:A:15:LYS:CA	5	0.61
(1,215)	1:A:10:VAL:CA	1:B:15:LYS:CA	5	0.61
(1,215)	1:A:10:VAL:CA	1:C:15:LYS:CA	5	0.61
(1,215)	1:A:10:VAL:CA	1:D:15:LYS:CA	5	0.61
(1,215)	1:A:10:VAL:CA	1:E:15:LYS:CA	5	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,215)	1:B:10:VAL:CA	1:A:15:LYS:CA	5	0.61
(1,215)	1:B:10:VAL:CA	1:B:15:LYS:CA	5	0.61
(1,215)	1:B:10:VAL:CA	1:C:15:LYS:CA	5	0.61
(1,215)	1:B:10:VAL:CA	1:D:15:LYS:CA	5	0.61
(1,215)	1:B:10:VAL:CA	1:E:15:LYS:CA	5	0.61
(1,215)	1:C:10:VAL:CA	1:A:15:LYS:CA	5	0.61
(1,215)	1:C:10:VAL:CA	1:B:15:LYS:CA	5	0.61
(1,215)	1:C:10:VAL:CA	1:C:15:LYS:CA	5	0.61
(1,215)	1:C:10:VAL:CA	1:D:15:LYS:CA	5	0.61
(1,215)	1:C:10:VAL:CA	1:E:15:LYS:CA	5	0.61
(1,215)	1:D:10:VAL:CA	1:A:15:LYS:CA	5	0.61
(1,215)	1:D:10:VAL:CA	1:B:15:LYS:CA	5	0.61
(1,215)	1:D:10:VAL:CA	1:C:15:LYS:CA	5	0.61
(1,215)	1:D:10:VAL:CA	1:D:15:LYS:CA	5	0.61
(1,215)	1:D:10:VAL:CA	1:E:15:LYS:CA	5	0.61
(1,215)	1:E:10:VAL:CA	1:A:15:LYS:CA	5	0.61
(1,215)	1:E:10:VAL:CA	1:B:15:LYS:CA	5	0.61
(1,215)	1:E:10:VAL:CA	1:C:15:LYS:CA	5	0.61
(1,215)	1:E:10:VAL:CA	1:D:15:LYS:CA	5	0.61
(1,215)	1:E:10:VAL:CA	1:E:15:LYS:CA	5	0.61
(1,258)	1:A:50:ASP:CA	1:A:86:ILE:CG1	2	0.58
(1,258)	1:A:50:ASP:CA	1:B:86:ILE:CG1	2	0.58
(1,258)	1:A:50:ASP:CA	1:C:86:ILE:CG1	2	0.58
(1,258)	1:A:50:ASP:CA	1:D:86:ILE:CG1	2	0.58
(1,258)	1:A:50:ASP:CA	1:E:86:ILE:CG1	2	0.58
(1,258)	1:B:50:ASP:CA	1:A:86:ILE:CG1	2	0.58
(1,258)	1:B:50:ASP:CA	1:B:86:ILE:CG1	2	0.58
(1,258)	1:B:50:ASP:CA	1:C:86:ILE:CG1	2	0.58
(1,258)	1:B:50:ASP:CA	1:D:86:ILE:CG1	2	0.58
(1,258)	1:B:50:ASP:CA	1:E:86:ILE:CG1	2	0.58
(1,258)	1:C:50:ASP:CA	1:A:86:ILE:CG1	2	0.58
(1,258)	1:C:50:ASP:CA	1:B:86:ILE:CG1	2	0.58
(1,258)	1:C:50:ASP:CA	1:C:86:ILE:CG1	2	0.58
(1,258)	1:C:50:ASP:CA	1:D:86:ILE:CG1	2	0.58
(1,258)	1:C:50:ASP:CA	1:E:86:ILE:CG1	2	0.58
(1,258)	1:D:50:ASP:CA	1:A:86:ILE:CG1	2	0.58
(1,258)	1:D:50:ASP:CA	1:B:86:ILE:CG1	2	0.58
(1,258)	1:D:50:ASP:CA	1:C:86:ILE:CG1	2	0.58
(1,258)	1:D:50:ASP:CA	1:D:86:ILE:CG1	2	0.58
(1,258)	1:D:50:ASP:CA	1:E:86:ILE:CG1	2	0.58
(1,258)	1:E:50:ASP:CA	1:A:86:ILE:CG1	2	0.58
(1,258)	1:E:50:ASP:CA	1:B:86:ILE:CG1	2	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	1:E:50:ASP:CA	1:C:86:ILE:CG1	2	0.58
(1,258)	1:E:50:ASP:CA	1:D:86:ILE:CG1	2	0.58
(1,258)	1:E:50:ASP:CA	1:E:86:ILE:CG1	2	0.58
(1,258)	1:A:50:ASP:CA	1:A:86:ILE:CG1	4	0.57
(1,258)	1:A:50:ASP:CA	1:B:86:ILE:CG1	4	0.57
(1,258)	1:A:50:ASP:CA	1:C:86:ILE:CG1	4	0.57
(1,258)	1:A:50:ASP:CA	1:D:86:ILE:CG1	4	0.57
(1,258)	1:A:50:ASP:CA	1:E:86:ILE:CG1	4	0.57
(1,258)	1:B:50:ASP:CA	1:A:86:ILE:CG1	4	0.57
(1,258)	1:B:50:ASP:CA	1:B:86:ILE:CG1	4	0.57
(1,258)	1:B:50:ASP:CA	1:C:86:ILE:CG1	4	0.57
(1,258)	1:B:50:ASP:CA	1:D:86:ILE:CG1	4	0.57
(1,258)	1:B:50:ASP:CA	1:E:86:ILE:CG1	4	0.57
(1,258)	1:C:50:ASP:CA	1:A:86:ILE:CG1	4	0.57
(1,258)	1:C:50:ASP:CA	1:B:86:ILE:CG1	4	0.57
(1,258)	1:C:50:ASP:CA	1:C:86:ILE:CG1	4	0.57
(1,258)	1:C:50:ASP:CA	1:D:86:ILE:CG1	4	0.57
(1,258)	1:C:50:ASP:CA	1:E:86:ILE:CG1	4	0.57
(1,258)	1:D:50:ASP:CA	1:A:86:ILE:CG1	4	0.57
(1,258)	1:D:50:ASP:CA	1:B:86:ILE:CG1	4	0.57
(1,258)	1:D:50:ASP:CA	1:C:86:ILE:CG1	4	0.57
(1,258)	1:D:50:ASP:CA	1:D:86:ILE:CG1	4	0.57
(1,258)	1:D:50:ASP:CA	1:E:86:ILE:CG1	4	0.57
(1,258)	1:E:50:ASP:CA	1:A:86:ILE:CG1	4	0.57
(1,258)	1:E:50:ASP:CA	1:B:86:ILE:CG1	4	0.57
(1,258)	1:E:50:ASP:CA	1:C:86:ILE:CG1	4	0.57
(1,258)	1:E:50:ASP:CA	1:D:86:ILE:CG1	4	0.57
(1,258)	1:E:50:ASP:CA	1:E:86:ILE:CG1	4	0.57
(2,70)	1:A:64:ARG:NH1	1:A:46:GLU:OE2	3	0.55
(2,70)	1:A:64:ARG:NH1	1:B:46:GLU:OE2	3	0.55
(2,70)	1:A:64:ARG:NH1	1:C:46:GLU:OE2	3	0.55
(2,70)	1:A:64:ARG:NH1	1:D:46:GLU:OE2	3	0.55
(2,70)	1:A:64:ARG:NH1	1:E:46:GLU:OE2	3	0.55
(2,70)	1:B:64:ARG:NH1	1:A:46:GLU:OE2	3	0.55
(2,70)	1:B:64:ARG:NH1	1:B:46:GLU:OE2	3	0.55
(2,70)	1:B:64:ARG:NH1	1:C:46:GLU:OE2	3	0.55
(2,70)	1:B:64:ARG:NH1	1:D:46:GLU:OE2	3	0.55
(2,70)	1:B:64:ARG:NH1	1:E:46:GLU:OE2	3	0.55
(2,70)	1:C:64:ARG:NH1	1:A:46:GLU:OE2	3	0.55
(2,70)	1:C:64:ARG:NH1	1:B:46:GLU:OE2	3	0.55
(2,70)	1:C:64:ARG:NH1	1:C:46:GLU:OE2	3	0.55
(2,70)	1:C:64:ARG:NH1	1:D:46:GLU:OE2	3	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,70)	1:C:64:ARG:NH1	1:E:46:GLU:OE2	3	0.55
(2,70)	1:D:64:ARG:NH1	1:A:46:GLU:OE2	3	0.55
(2,70)	1:D:64:ARG:NH1	1:B:46:GLU:OE2	3	0.55
(2,70)	1:D:64:ARG:NH1	1:C:46:GLU:OE2	3	0.55
(2,70)	1:D:64:ARG:NH1	1:D:46:GLU:OE2	3	0.55
(2,70)	1:D:64:ARG:NH1	1:E:46:GLU:OE2	3	0.55
(2,70)	1:E:64:ARG:NH1	1:A:46:GLU:OE2	3	0.55
(2,70)	1:E:64:ARG:NH1	1:B:46:GLU:OE2	3	0.55
(2,70)	1:E:64:ARG:NH1	1:C:46:GLU:OE2	3	0.55
(2,70)	1:E:64:ARG:NH1	1:D:46:GLU:OE2	3	0.55
(2,70)	1:E:64:ARG:NH1	1:E:46:GLU:OE2	3	0.55
(2,41)	1:A:46:GLU:OE2	1:A:64:ARG:NH1	3	0.55
(2,41)	1:A:46:GLU:OE2	1:B:64:ARG:NH1	3	0.55
(2,41)	1:A:46:GLU:OE2	1:C:64:ARG:NH1	3	0.55
(2,41)	1:A:46:GLU:OE2	1:D:64:ARG:NH1	3	0.55
(2,41)	1:A:46:GLU:OE2	1:E:64:ARG:NH1	3	0.55
(2,41)	1:B:46:GLU:OE2	1:A:64:ARG:NH1	3	0.55
(2,41)	1:B:46:GLU:OE2	1:B:64:ARG:NH1	3	0.55
(2,41)	1:B:46:GLU:OE2	1:C:64:ARG:NH1	3	0.55
(2,41)	1:B:46:GLU:OE2	1:D:64:ARG:NH1	3	0.55
(2,41)	1:B:46:GLU:OE2	1:E:64:ARG:NH1	3	0.55
(2,41)	1:C:46:GLU:OE2	1:A:64:ARG:NH1	3	0.55
(2,41)	1:C:46:GLU:OE2	1:B:64:ARG:NH1	3	0.55
(2,41)	1:C:46:GLU:OE2	1:C:64:ARG:NH1	3	0.55
(2,41)	1:C:46:GLU:OE2	1:D:64:ARG:NH1	3	0.55
(2,41)	1:C:46:GLU:OE2	1:E:64:ARG:NH1	3	0.55
(2,41)	1:D:46:GLU:OE2	1:A:64:ARG:NH1	3	0.55
(2,41)	1:D:46:GLU:OE2	1:B:64:ARG:NH1	3	0.55
(2,41)	1:D:46:GLU:OE2	1:C:64:ARG:NH1	3	0.55
(2,41)	1:D:46:GLU:OE2	1:D:64:ARG:NH1	3	0.55
(2,41)	1:D:46:GLU:OE2	1:E:64:ARG:NH1	3	0.55
(2,41)	1:E:46:GLU:OE2	1:A:64:ARG:NH1	3	0.55
(2,41)	1:E:46:GLU:OE2	1:B:64:ARG:NH1	3	0.55
(2,41)	1:E:46:GLU:OE2	1:C:64:ARG:NH1	3	0.55
(2,41)	1:E:46:GLU:OE2	1:D:64:ARG:NH1	3	0.55
(2,41)	1:E:46:GLU:OE2	1:E:64:ARG:NH1	3	0.55
(1,258)	1:A:50:ASP:CA	1:A:86:ILE:CG1	3	0.55
(1,258)	1:A:50:ASP:CA	1:B:86:ILE:CG1	3	0.55
(1,258)	1:A:50:ASP:CA	1:C:86:ILE:CG1	3	0.55
(1,258)	1:A:50:ASP:CA	1:D:86:ILE:CG1	3	0.55
(1,258)	1:A:50:ASP:CA	1:E:86:ILE:CG1	3	0.55
(1,258)	1:B:50:ASP:CA	1:A:86:ILE:CG1	3	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	1:B:50:ASP:CA	1:B:86:ILE:CG1	3	0.55
(1,258)	1:B:50:ASP:CA	1:C:86:ILE:CG1	3	0.55
(1,258)	1:B:50:ASP:CA	1:D:86:ILE:CG1	3	0.55
(1,258)	1:B:50:ASP:CA	1:E:86:ILE:CG1	3	0.55
(1,258)	1:C:50:ASP:CA	1:A:86:ILE:CG1	3	0.55
(1,258)	1:C:50:ASP:CA	1:B:86:ILE:CG1	3	0.55
(1,258)	1:C:50:ASP:CA	1:C:86:ILE:CG1	3	0.55
(1,258)	1:C:50:ASP:CA	1:D:86:ILE:CG1	3	0.55
(1,258)	1:C:50:ASP:CA	1:E:86:ILE:CG1	3	0.55
(1,258)	1:D:50:ASP:CA	1:A:86:ILE:CG1	3	0.55
(1,258)	1:D:50:ASP:CA	1:B:86:ILE:CG1	3	0.55
(1,258)	1:D:50:ASP:CA	1:C:86:ILE:CG1	3	0.55
(1,258)	1:D:50:ASP:CA	1:D:86:ILE:CG1	3	0.55
(1,258)	1:D:50:ASP:CA	1:E:86:ILE:CG1	3	0.55
(1,258)	1:E:50:ASP:CA	1:A:86:ILE:CG1	3	0.55
(1,258)	1:E:50:ASP:CA	1:B:86:ILE:CG1	3	0.55
(1,258)	1:E:50:ASP:CA	1:C:86:ILE:CG1	3	0.55
(1,258)	1:E:50:ASP:CA	1:D:86:ILE:CG1	3	0.55
(1,258)	1:E:50:ASP:CA	1:E:86:ILE:CG1	3	0.55
(1,258)	1:A:50:ASP:CA	1:A:86:ILE:CG1	5	0.55
(1,258)	1:A:50:ASP:CA	1:B:86:ILE:CG1	5	0.55
(1,258)	1:A:50:ASP:CA	1:C:86:ILE:CG1	5	0.55
(1,258)	1:A:50:ASP:CA	1:D:86:ILE:CG1	5	0.55
(1,258)	1:A:50:ASP:CA	1:E:86:ILE:CG1	5	0.55
(1,258)	1:B:50:ASP:CA	1:A:86:ILE:CG1	5	0.55
(1,258)	1:B:50:ASP:CA	1:B:86:ILE:CG1	5	0.55
(1,258)	1:B:50:ASP:CA	1:C:86:ILE:CG1	5	0.55
(1,258)	1:B:50:ASP:CA	1:D:86:ILE:CG1	5	0.55
(1,258)	1:B:50:ASP:CA	1:E:86:ILE:CG1	5	0.55
(1,258)	1:C:50:ASP:CA	1:A:86:ILE:CG1	5	0.55
(1,258)	1:C:50:ASP:CA	1:B:86:ILE:CG1	5	0.55
(1,258)	1:C:50:ASP:CA	1:C:86:ILE:CG1	5	0.55
(1,258)	1:C:50:ASP:CA	1:D:86:ILE:CG1	5	0.55
(1,258)	1:C:50:ASP:CA	1:E:86:ILE:CG1	5	0.55
(1,258)	1:D:50:ASP:CA	1:A:86:ILE:CG1	5	0.55
(1,258)	1:D:50:ASP:CA	1:B:86:ILE:CG1	5	0.55
(1,258)	1:D:50:ASP:CA	1:C:86:ILE:CG1	5	0.55
(1,258)	1:D:50:ASP:CA	1:D:86:ILE:CG1	5	0.55
(1,258)	1:D:50:ASP:CA	1:E:86:ILE:CG1	5	0.55
(1,258)	1:E:50:ASP:CA	1:A:86:ILE:CG1	5	0.55
(1,258)	1:E:50:ASP:CA	1:B:86:ILE:CG1	5	0.55
(1,258)	1:E:50:ASP:CA	1:C:86:ILE:CG1	5	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,258)	1:E:50:ASP:CA	1:D:86:ILE:CG1	5	0.55
(1,258)	1:E:50:ASP:CA	1:E:86:ILE:CG1	5	0.55
(1,245)	1:A:48:ALA:CA	1:A:5:ARG:CB	1	0.52
(1,245)	1:A:48:ALA:CA	1:B:5:ARG:CB	1	0.52
(1,245)	1:A:48:ALA:CA	1:C:5:ARG:CB	1	0.52
(1,245)	1:A:48:ALA:CA	1:D:5:ARG:CB	1	0.52
(1,245)	1:A:48:ALA:CA	1:E:5:ARG:CB	1	0.52
(1,245)	1:B:48:ALA:CA	1:A:5:ARG:CB	1	0.52
(1,245)	1:B:48:ALA:CA	1:B:5:ARG:CB	1	0.52
(1,245)	1:B:48:ALA:CA	1:C:5:ARG:CB	1	0.52
(1,245)	1:B:48:ALA:CA	1:D:5:ARG:CB	1	0.52
(1,245)	1:B:48:ALA:CA	1:E:5:ARG:CB	1	0.52
(1,245)	1:C:48:ALA:CA	1:A:5:ARG:CB	1	0.52
(1,245)	1:C:48:ALA:CA	1:B:5:ARG:CB	1	0.52
(1,245)	1:C:48:ALA:CA	1:C:5:ARG:CB	1	0.52
(1,245)	1:C:48:ALA:CA	1:D:5:ARG:CB	1	0.52
(1,245)	1:C:48:ALA:CA	1:E:5:ARG:CB	1	0.52
(1,245)	1:D:48:ALA:CA	1:A:5:ARG:CB	1	0.52
(1,245)	1:D:48:ALA:CA	1:B:5:ARG:CB	1	0.52
(1,245)	1:D:48:ALA:CA	1:C:5:ARG:CB	1	0.52
(1,245)	1:D:48:ALA:CA	1:D:5:ARG:CB	1	0.52
(1,245)	1:D:48:ALA:CA	1:E:5:ARG:CB	1	0.52
(1,245)	1:E:48:ALA:CA	1:A:5:ARG:CB	1	0.52
(1,245)	1:E:48:ALA:CA	1:B:5:ARG:CB	1	0.52
(1,245)	1:E:48:ALA:CA	1:C:5:ARG:CB	1	0.52
(1,245)	1:E:48:ALA:CA	1:D:5:ARG:CB	1	0.52
(1,245)	1:E:48:ALA:CA	1:E:5:ARG:CB	1	0.52
(1,245)	1:A:48:ALA:CA	1:A:5:ARG:CB	2	0.52
(1,245)	1:A:48:ALA:CA	1:B:5:ARG:CB	2	0.52
(1,245)	1:A:48:ALA:CA	1:C:5:ARG:CB	2	0.52
(1,245)	1:A:48:ALA:CA	1:D:5:ARG:CB	2	0.52
(1,245)	1:A:48:ALA:CA	1:E:5:ARG:CB	2	0.52
(1,245)	1:B:48:ALA:CA	1:A:5:ARG:CB	2	0.52
(1,245)	1:B:48:ALA:CA	1:B:5:ARG:CB	2	0.52
(1,245)	1:B:48:ALA:CA	1:C:5:ARG:CB	2	0.52
(1,245)	1:B:48:ALA:CA	1:D:5:ARG:CB	2	0.52
(1,245)	1:B:48:ALA:CA	1:E:5:ARG:CB	2	0.52
(1,245)	1:C:48:ALA:CA	1:A:5:ARG:CB	2	0.52
(1,245)	1:C:48:ALA:CA	1:B:5:ARG:CB	2	0.52
(1,245)	1:C:48:ALA:CA	1:C:5:ARG:CB	2	0.52
(1,245)	1:C:48:ALA:CA	1:D:5:ARG:CB	2	0.52
(1,245)	1:C:48:ALA:CA	1:E:5:ARG:CB	2	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:D:48:ALA:CA	1:A:5:ARG:CB	2	0.52
(1,245)	1:D:48:ALA:CA	1:B:5:ARG:CB	2	0.52
(1,245)	1:D:48:ALA:CA	1:C:5:ARG:CB	2	0.52
(1,245)	1:D:48:ALA:CA	1:D:5:ARG:CB	2	0.52
(1,245)	1:D:48:ALA:CA	1:E:5:ARG:CB	2	0.52
(1,245)	1:E:48:ALA:CA	1:A:5:ARG:CB	2	0.52
(1,245)	1:E:48:ALA:CA	1:B:5:ARG:CB	2	0.52
(1,245)	1:E:48:ALA:CA	1:C:5:ARG:CB	2	0.52
(1,245)	1:E:48:ALA:CA	1:D:5:ARG:CB	2	0.52
(1,245)	1:E:48:ALA:CA	1:E:5:ARG:CB	2	0.52
(1,245)	1:A:48:ALA:CA	1:A:5:ARG:CB	3	0.52
(1,245)	1:A:48:ALA:CA	1:B:5:ARG:CB	3	0.52
(1,245)	1:A:48:ALA:CA	1:C:5:ARG:CB	3	0.52
(1,245)	1:A:48:ALA:CA	1:D:5:ARG:CB	3	0.52
(1,245)	1:A:48:ALA:CA	1:E:5:ARG:CB	3	0.52
(1,245)	1:B:48:ALA:CA	1:A:5:ARG:CB	3	0.52
(1,245)	1:B:48:ALA:CA	1:B:5:ARG:CB	3	0.52
(1,245)	1:B:48:ALA:CA	1:C:5:ARG:CB	3	0.52
(1,245)	1:B:48:ALA:CA	1:D:5:ARG:CB	3	0.52
(1,245)	1:B:48:ALA:CA	1:E:5:ARG:CB	3	0.52
(1,245)	1:C:48:ALA:CA	1:A:5:ARG:CB	3	0.52
(1,245)	1:C:48:ALA:CA	1:B:5:ARG:CB	3	0.52
(1,245)	1:C:48:ALA:CA	1:C:5:ARG:CB	3	0.52
(1,245)	1:C:48:ALA:CA	1:D:5:ARG:CB	3	0.52
(1,245)	1:C:48:ALA:CA	1:E:5:ARG:CB	3	0.52
(1,245)	1:D:48:ALA:CA	1:A:5:ARG:CB	3	0.52
(1,245)	1:D:48:ALA:CA	1:B:5:ARG:CB	3	0.52
(1,245)	1:D:48:ALA:CA	1:C:5:ARG:CB	3	0.52
(1,245)	1:D:48:ALA:CA	1:D:5:ARG:CB	3	0.52
(1,245)	1:D:48:ALA:CA	1:E:5:ARG:CB	3	0.52
(1,245)	1:E:48:ALA:CA	1:A:5:ARG:CB	3	0.52
(1,245)	1:E:48:ALA:CA	1:B:5:ARG:CB	3	0.52
(1,245)	1:E:48:ALA:CA	1:C:5:ARG:CB	3	0.52
(1,245)	1:E:48:ALA:CA	1:D:5:ARG:CB	3	0.52
(1,245)	1:E:48:ALA:CA	1:E:5:ARG:CB	3	0.52
(1,245)	1:A:48:ALA:CA	1:A:5:ARG:CB	4	0.52
(1,245)	1:A:48:ALA:CA	1:B:5:ARG:CB	4	0.52
(1,245)	1:A:48:ALA:CA	1:C:5:ARG:CB	4	0.52
(1,245)	1:A:48:ALA:CA	1:D:5:ARG:CB	4	0.52
(1,245)	1:A:48:ALA:CA	1:E:5:ARG:CB	4	0.52
(1,245)	1:B:48:ALA:CA	1:A:5:ARG:CB	4	0.52
(1,245)	1:B:48:ALA:CA	1:B:5:ARG:CB	4	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:B:48:ALA:CA	1:C:5:ARG:CB	4	0.52
(1,245)	1:B:48:ALA:CA	1:D:5:ARG:CB	4	0.52
(1,245)	1:B:48:ALA:CA	1:E:5:ARG:CB	4	0.52
(1,245)	1:C:48:ALA:CA	1:A:5:ARG:CB	4	0.52
(1,245)	1:C:48:ALA:CA	1:B:5:ARG:CB	4	0.52
(1,245)	1:C:48:ALA:CA	1:C:5:ARG:CB	4	0.52
(1,245)	1:C:48:ALA:CA	1:D:5:ARG:CB	4	0.52
(1,245)	1:C:48:ALA:CA	1:E:5:ARG:CB	4	0.52
(1,245)	1:D:48:ALA:CA	1:A:5:ARG:CB	4	0.52
(1,245)	1:D:48:ALA:CA	1:B:5:ARG:CB	4	0.52
(1,245)	1:D:48:ALA:CA	1:C:5:ARG:CB	4	0.52
(1,245)	1:D:48:ALA:CA	1:D:5:ARG:CB	4	0.52
(1,245)	1:D:48:ALA:CA	1:E:5:ARG:CB	4	0.52
(1,245)	1:E:48:ALA:CA	1:A:5:ARG:CB	4	0.52
(1,245)	1:E:48:ALA:CA	1:B:5:ARG:CB	4	0.52
(1,245)	1:E:48:ALA:CA	1:C:5:ARG:CB	4	0.52
(1,245)	1:E:48:ALA:CA	1:D:5:ARG:CB	4	0.52
(1,245)	1:E:48:ALA:CA	1:E:5:ARG:CB	4	0.52
(1,245)	1:A:48:ALA:CA	1:A:5:ARG:CB	5	0.52
(1,245)	1:A:48:ALA:CA	1:B:5:ARG:CB	5	0.52
(1,245)	1:A:48:ALA:CA	1:C:5:ARG:CB	5	0.52
(1,245)	1:A:48:ALA:CA	1:D:5:ARG:CB	5	0.52
(1,245)	1:A:48:ALA:CA	1:E:5:ARG:CB	5	0.52
(1,245)	1:B:48:ALA:CA	1:A:5:ARG:CB	5	0.52
(1,245)	1:B:48:ALA:CA	1:B:5:ARG:CB	5	0.52
(1,245)	1:B:48:ALA:CA	1:C:5:ARG:CB	5	0.52
(1,245)	1:B:48:ALA:CA	1:D:5:ARG:CB	5	0.52
(1,245)	1:B:48:ALA:CA	1:E:5:ARG:CB	5	0.52
(1,245)	1:C:48:ALA:CA	1:A:5:ARG:CB	5	0.52
(1,245)	1:C:48:ALA:CA	1:B:5:ARG:CB	5	0.52
(1,245)	1:C:48:ALA:CA	1:C:5:ARG:CB	5	0.52
(1,245)	1:C:48:ALA:CA	1:D:5:ARG:CB	5	0.52
(1,245)	1:C:48:ALA:CA	1:E:5:ARG:CB	5	0.52
(1,245)	1:D:48:ALA:CA	1:A:5:ARG:CB	5	0.52
(1,245)	1:D:48:ALA:CA	1:B:5:ARG:CB	5	0.52
(1,245)	1:D:48:ALA:CA	1:C:5:ARG:CB	5	0.52
(1,245)	1:D:48:ALA:CA	1:D:5:ARG:CB	5	0.52
(1,245)	1:D:48:ALA:CA	1:E:5:ARG:CB	5	0.52
(1,245)	1:E:48:ALA:CA	1:A:5:ARG:CB	5	0.52
(1,245)	1:E:48:ALA:CA	1:B:5:ARG:CB	5	0.52
(1,245)	1:E:48:ALA:CA	1:C:5:ARG:CB	5	0.52
(1,245)	1:E:48:ALA:CA	1:D:5:ARG:CB	5	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,245)	1:E:48:ALA:CA	1:E:5:ARG:CB	5	0.52
(1,216)	1:A:13:THR:CB	1:A:17:ASP:CA	1	0.5
(1,216)	1:A:13:THR:CB	1:B:17:ASP:CA	1	0.5
(1,216)	1:A:13:THR:CB	1:C:17:ASP:CA	1	0.5
(1,216)	1:A:13:THR:CB	1:D:17:ASP:CA	1	0.5
(1,216)	1:A:13:THR:CB	1:E:17:ASP:CA	1	0.5
(1,216)	1:B:13:THR:CB	1:A:17:ASP:CA	1	0.5
(1,216)	1:B:13:THR:CB	1:B:17:ASP:CA	1	0.5
(1,216)	1:B:13:THR:CB	1:C:17:ASP:CA	1	0.5
(1,216)	1:B:13:THR:CB	1:D:17:ASP:CA	1	0.5
(1,216)	1:B:13:THR:CB	1:E:17:ASP:CA	1	0.5
(1,216)	1:C:13:THR:CB	1:A:17:ASP:CA	1	0.5
(1,216)	1:C:13:THR:CB	1:B:17:ASP:CA	1	0.5
(1,216)	1:C:13:THR:CB	1:C:17:ASP:CA	1	0.5
(1,216)	1:C:13:THR:CB	1:D:17:ASP:CA	1	0.5
(1,216)	1:C:13:THR:CB	1:E:17:ASP:CA	1	0.5
(1,216)	1:D:13:THR:CB	1:A:17:ASP:CA	1	0.5
(1,216)	1:D:13:THR:CB	1:B:17:ASP:CA	1	0.5
(1,216)	1:D:13:THR:CB	1:C:17:ASP:CA	1	0.5
(1,216)	1:D:13:THR:CB	1:D:17:ASP:CA	1	0.5
(1,216)	1:D:13:THR:CB	1:E:17:ASP:CA	1	0.5
(1,216)	1:E:13:THR:CB	1:A:17:ASP:CA	1	0.5
(1,216)	1:E:13:THR:CB	1:B:17:ASP:CA	1	0.5
(1,216)	1:E:13:THR:CB	1:C:17:ASP:CA	1	0.5
(1,216)	1:E:13:THR:CB	1:D:17:ASP:CA	1	0.5
(1,216)	1:E:13:THR:CB	1:E:17:ASP:CA	1	0.5
(1,216)	1:A:13:THR:CB	1:A:17:ASP:CA	2	0.5
(1,216)	1:A:13:THR:CB	1:B:17:ASP:CA	2	0.5
(1,216)	1:A:13:THR:CB	1:C:17:ASP:CA	2	0.5
(1,216)	1:A:13:THR:CB	1:D:17:ASP:CA	2	0.5
(1,216)	1:A:13:THR:CB	1:E:17:ASP:CA	2	0.5
(1,216)	1:B:13:THR:CB	1:A:17:ASP:CA	2	0.5
(1,216)	1:B:13:THR:CB	1:B:17:ASP:CA	2	0.5
(1,216)	1:B:13:THR:CB	1:C:17:ASP:CA	2	0.5
(1,216)	1:B:13:THR:CB	1:D:17:ASP:CA	2	0.5
(1,216)	1:B:13:THR:CB	1:E:17:ASP:CA	2	0.5
(1,216)	1:C:13:THR:CB	1:A:17:ASP:CA	2	0.5
(1,216)	1:C:13:THR:CB	1:B:17:ASP:CA	2	0.5
(1,216)	1:C:13:THR:CB	1:C:17:ASP:CA	2	0.5
(1,216)	1:C:13:THR:CB	1:D:17:ASP:CA	2	0.5
(1,216)	1:C:13:THR:CB	1:E:17:ASP:CA	2	0.5
(1,216)	1:D:13:THR:CB	1:A:17:ASP:CA	2	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,216)	1:D:13:THR:CB	1:B:17:ASP:CA	2	0.5
(1,216)	1:D:13:THR:CB	1:C:17:ASP:CA	2	0.5
(1,216)	1:D:13:THR:CB	1:D:17:ASP:CA	2	0.5
(1,216)	1:D:13:THR:CB	1:E:17:ASP:CA	2	0.5
(1,216)	1:E:13:THR:CB	1:A:17:ASP:CA	2	0.5
(1,216)	1:E:13:THR:CB	1:B:17:ASP:CA	2	0.5
(1,216)	1:E:13:THR:CB	1:C:17:ASP:CA	2	0.5
(1,216)	1:E:13:THR:CB	1:D:17:ASP:CA	2	0.5
(1,216)	1:E:13:THR:CB	1:E:17:ASP:CA	2	0.5
(1,216)	1:A:13:THR:CB	1:A:17:ASP:CA	3	0.5
(1,216)	1:A:13:THR:CB	1:B:17:ASP:CA	3	0.5
(1,216)	1:A:13:THR:CB	1:C:17:ASP:CA	3	0.5
(1,216)	1:A:13:THR:CB	1:D:17:ASP:CA	3	0.5
(1,216)	1:A:13:THR:CB	1:E:17:ASP:CA	3	0.5
(1,216)	1:B:13:THR:CB	1:A:17:ASP:CA	3	0.5
(1,216)	1:B:13:THR:CB	1:B:17:ASP:CA	3	0.5
(1,216)	1:B:13:THR:CB	1:C:17:ASP:CA	3	0.5
(1,216)	1:B:13:THR:CB	1:D:17:ASP:CA	3	0.5
(1,216)	1:B:13:THR:CB	1:E:17:ASP:CA	3	0.5
(1,216)	1:C:13:THR:CB	1:A:17:ASP:CA	3	0.5
(1,216)	1:C:13:THR:CB	1:B:17:ASP:CA	3	0.5
(1,216)	1:C:13:THR:CB	1:C:17:ASP:CA	3	0.5
(1,216)	1:C:13:THR:CB	1:D:17:ASP:CA	3	0.5
(1,216)	1:C:13:THR:CB	1:E:17:ASP:CA	3	0.5
(1,216)	1:D:13:THR:CB	1:A:17:ASP:CA	3	0.5
(1,216)	1:D:13:THR:CB	1:B:17:ASP:CA	3	0.5
(1,216)	1:D:13:THR:CB	1:C:17:ASP:CA	3	0.5
(1,216)	1:D:13:THR:CB	1:D:17:ASP:CA	3	0.5
(1,216)	1:D:13:THR:CB	1:E:17:ASP:CA	3	0.5
(1,216)	1:E:13:THR:CB	1:A:17:ASP:CA	3	0.5
(1,216)	1:E:13:THR:CB	1:B:17:ASP:CA	3	0.5
(1,216)	1:E:13:THR:CB	1:C:17:ASP:CA	3	0.5
(1,216)	1:E:13:THR:CB	1:D:17:ASP:CA	3	0.5
(1,216)	1:E:13:THR:CB	1:E:17:ASP:CA	3	0.5
(1,216)	1:A:13:THR:CB	1:A:17:ASP:CA	4	0.5
(1,216)	1:A:13:THR:CB	1:B:17:ASP:CA	4	0.5
(1,216)	1:A:13:THR:CB	1:C:17:ASP:CA	4	0.5
(1,216)	1:A:13:THR:CB	1:D:17:ASP:CA	4	0.5
(1,216)	1:A:13:THR:CB	1:E:17:ASP:CA	4	0.5
(1,216)	1:B:13:THR:CB	1:A:17:ASP:CA	4	0.5
(1,216)	1:B:13:THR:CB	1:B:17:ASP:CA	4	0.5
(1,216)	1:B:13:THR:CB	1:C:17:ASP:CA	4	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,216)	1:B:13:THR:CB	1:D:17:ASP:CA	4	0.5
(1,216)	1:B:13:THR:CB	1:E:17:ASP:CA	4	0.5
(1,216)	1:C:13:THR:CB	1:A:17:ASP:CA	4	0.5
(1,216)	1:C:13:THR:CB	1:B:17:ASP:CA	4	0.5
(1,216)	1:C:13:THR:CB	1:C:17:ASP:CA	4	0.5
(1,216)	1:C:13:THR:CB	1:D:17:ASP:CA	4	0.5
(1,216)	1:C:13:THR:CB	1:E:17:ASP:CA	4	0.5
(1,216)	1:D:13:THR:CB	1:A:17:ASP:CA	4	0.5
(1,216)	1:D:13:THR:CB	1:B:17:ASP:CA	4	0.5
(1,216)	1:D:13:THR:CB	1:C:17:ASP:CA	4	0.5
(1,216)	1:D:13:THR:CB	1:D:17:ASP:CA	4	0.5
(1,216)	1:D:13:THR:CB	1:E:17:ASP:CA	4	0.5
(1,216)	1:E:13:THR:CB	1:A:17:ASP:CA	4	0.5
(1,216)	1:E:13:THR:CB	1:B:17:ASP:CA	4	0.5
(1,216)	1:E:13:THR:CB	1:C:17:ASP:CA	4	0.5
(1,216)	1:E:13:THR:CB	1:D:17:ASP:CA	4	0.5
(1,216)	1:E:13:THR:CB	1:E:17:ASP:CA	4	0.5
(1,216)	1:A:13:THR:CB	1:A:17:ASP:CA	5	0.5
(1,216)	1:A:13:THR:CB	1:B:17:ASP:CA	5	0.5
(1,216)	1:A:13:THR:CB	1:C:17:ASP:CA	5	0.5
(1,216)	1:A:13:THR:CB	1:D:17:ASP:CA	5	0.5
(1,216)	1:A:13:THR:CB	1:E:17:ASP:CA	5	0.5
(1,216)	1:B:13:THR:CB	1:A:17:ASP:CA	5	0.5
(1,216)	1:B:13:THR:CB	1:B:17:ASP:CA	5	0.5
(1,216)	1:B:13:THR:CB	1:C:17:ASP:CA	5	0.5
(1,216)	1:B:13:THR:CB	1:D:17:ASP:CA	5	0.5
(1,216)	1:B:13:THR:CB	1:E:17:ASP:CA	5	0.5
(1,216)	1:C:13:THR:CB	1:A:17:ASP:CA	5	0.5
(1,216)	1:C:13:THR:CB	1:B:17:ASP:CA	5	0.5
(1,216)	1:C:13:THR:CB	1:C:17:ASP:CA	5	0.5
(1,216)	1:C:13:THR:CB	1:D:17:ASP:CA	5	0.5
(1,216)	1:C:13:THR:CB	1:E:17:ASP:CA	5	0.5
(1,216)	1:D:13:THR:CB	1:A:17:ASP:CA	5	0.5
(1,216)	1:D:13:THR:CB	1:B:17:ASP:CA	5	0.5
(1,216)	1:D:13:THR:CB	1:C:17:ASP:CA	5	0.5
(1,216)	1:D:13:THR:CB	1:D:17:ASP:CA	5	0.5
(1,216)	1:D:13:THR:CB	1:E:17:ASP:CA	5	0.5
(1,216)	1:E:13:THR:CB	1:A:17:ASP:CA	5	0.5
(1,216)	1:E:13:THR:CB	1:B:17:ASP:CA	5	0.5
(1,216)	1:E:13:THR:CB	1:C:17:ASP:CA	5	0.5
(1,216)	1:E:13:THR:CB	1:D:17:ASP:CA	5	0.5
(1,216)	1:E:13:THR:CB	1:E:17:ASP:CA	5	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,70)	1:B:83:VAL:CA	1:A:19:LEU:CG	2	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,70)	1:B:83:VAL:CA	1:A:19:LEU:CG	3	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,70)	1:B:83:VAL:CA	1:A:19:LEU:CG	4	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,69)	1:B:83:VAL:CA	1:A:19:LEU:CG	2	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,69)	1:B:83:VAL:CA	1:A:19:LEU:CG	3	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,69)	1:B:83:VAL:CA	1:A:19:LEU:CG	4	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,68)	1:B:83:VAL:CA	1:A:19:LEU:CG	2	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,68)	1:B:83:VAL:CA	1:A:19:LEU:CG	3	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,68)	1:B:83:VAL:CA	1:A:19:LEU:CG	4	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,67)	1:B:83:VAL:CA	1:A:19:LEU:CG	2	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	2	0.49
(3,67)	1:B:83:VAL:CA	1:A:19:LEU:CG	3	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	3	0.49
(3,67)	1:B:83:VAL:CA	1:A:19:LEU:CG	4	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	4	0.49
(3,70)	1:B:83:VAL:CA	1:A:19:LEU:CG	5	0.48
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,69)	1:B:83:VAL:CA	1:A:19:LEU:CG	5	0.48
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,68)	1:B:83:VAL:CA	1:A:19:LEU:CG	5	0.48
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,67)	1:B:83:VAL:CA	1:A:19:LEU:CG	5	0.48
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	5	0.48
(2,23)	1:A:18:THR:O	1:A:77:LYS:NZ	3	0.48
(2,23)	1:A:18:THR:O	1:B:77:LYS:NZ	3	0.48
(2,23)	1:A:18:THR:O	1:C:77:LYS:NZ	3	0.48
(2,23)	1:A:18:THR:O	1:D:77:LYS:NZ	3	0.48
(2,23)	1:A:18:THR:O	1:E:77:LYS:NZ	3	0.48
(2,23)	1:B:18:THR:O	1:A:77:LYS:NZ	3	0.48
(2,23)	1:B:18:THR:O	1:B:77:LYS:NZ	3	0.48
(2,23)	1:B:18:THR:O	1:C:77:LYS:NZ	3	0.48
(2,23)	1:B:18:THR:O	1:D:77:LYS:NZ	3	0.48
(2,23)	1:B:18:THR:O	1:E:77:LYS:NZ	3	0.48
(2,23)	1:C:18:THR:O	1:A:77:LYS:NZ	3	0.48
(2,23)	1:C:18:THR:O	1:B:77:LYS:NZ	3	0.48
(2,23)	1:C:18:THR:O	1:C:77:LYS:NZ	3	0.48
(2,23)	1:C:18:THR:O	1:D:77:LYS:NZ	3	0.48
(2,23)	1:C:18:THR:O	1:E:77:LYS:NZ	3	0.48
(2,23)	1:D:18:THR:O	1:A:77:LYS:NZ	3	0.48
(2,23)	1:D:18:THR:O	1:B:77:LYS:NZ	3	0.48
(2,23)	1:D:18:THR:O	1:C:77:LYS:NZ	3	0.48
(2,23)	1:D:18:THR:O	1:D:77:LYS:NZ	3	0.48
(2,23)	1:D:18:THR:O	1:E:77:LYS:NZ	3	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,23)	1:E:18:THR:O	1:A:77:LYS:NZ	3	0.48
(2,23)	1:E:18:THR:O	1:B:77:LYS:NZ	3	0.48
(2,23)	1:E:18:THR:O	1:C:77:LYS:NZ	3	0.48
(2,23)	1:E:18:THR:O	1:D:77:LYS:NZ	3	0.48
(2,23)	1:E:18:THR:O	1:E:77:LYS:NZ	3	0.48
(3,70)	1:B:83:VAL:CA	1:A:19:LEU:CG	1	0.46
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,70)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,69)	1:B:83:VAL:CA	1:A:19:LEU:CG	1	0.46
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,69)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,68)	1:B:83:VAL:CA	1:A:19:LEU:CG	1	0.46
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,68)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,67)	1:B:83:VAL:CA	1:A:19:LEU:CG	1	0.46
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(3,67)	1:B:83:VAL:CA	1:B:19:LEU:CG	1	0.46
(1,271)	1:A:59:TRP:CA	1:A:88:ASP:CB	1	0.45
(1,271)	1:A:59:TRP:CA	1:B:88:ASP:CB	1	0.45
(1,271)	1:A:59:TRP:CA	1:C:88:ASP:CB	1	0.45
(1,271)	1:A:59:TRP:CA	1:D:88:ASP:CB	1	0.45
(1,271)	1:A:59:TRP:CA	1:E:88:ASP:CB	1	0.45
(1,271)	1:B:59:TRP:CA	1:A:88:ASP:CB	1	0.45
(1,271)	1:B:59:TRP:CA	1:B:88:ASP:CB	1	0.45
(1,271)	1:B:59:TRP:CA	1:C:88:ASP:CB	1	0.45
(1,271)	1:B:59:TRP:CA	1:D:88:ASP:CB	1	0.45
(1,271)	1:B:59:TRP:CA	1:E:88:ASP:CB	1	0.45
(1,271)	1:C:59:TRP:CA	1:A:88:ASP:CB	1	0.45
(1,271)	1:C:59:TRP:CA	1:B:88:ASP:CB	1	0.45
(1,271)	1:C:59:TRP:CA	1:C:88:ASP:CB	1	0.45
(1,271)	1:C:59:TRP:CA	1:D:88:ASP:CB	1	0.45
(1,271)	1:C:59:TRP:CA	1:E:88:ASP:CB	1	0.45
(1,271)	1:D:59:TRP:CA	1:A:88:ASP:CB	1	0.45
(1,271)	1:D:59:TRP:CA	1:B:88:ASP:CB	1	0.45
(1,271)	1:D:59:TRP:CA	1:C:88:ASP:CB	1	0.45
(1,271)	1:D:59:TRP:CA	1:D:88:ASP:CB	1	0.45
(1,271)	1:D:59:TRP:CA	1:E:88:ASP:CB	1	0.45
(1,271)	1:E:59:TRP:CA	1:A:88:ASP:CB	1	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,271)	1:E:59:TRP:CA	1:B:88:ASP:CB	1	0.45
(1,271)	1:E:59:TRP:CA	1:C:88:ASP:CB	1	0.45
(1,271)	1:E:59:TRP:CA	1:D:88:ASP:CB	1	0.45
(1,271)	1:E:59:TRP:CA	1:E:88:ASP:CB	1	0.45
(1,271)	1:A:59:TRP:CA	1:A:88:ASP:CB	2	0.45
(1,271)	1:A:59:TRP:CA	1:B:88:ASP:CB	2	0.45
(1,271)	1:A:59:TRP:CA	1:C:88:ASP:CB	2	0.45
(1,271)	1:A:59:TRP:CA	1:D:88:ASP:CB	2	0.45
(1,271)	1:A:59:TRP:CA	1:E:88:ASP:CB	2	0.45
(1,271)	1:B:59:TRP:CA	1:A:88:ASP:CB	2	0.45
(1,271)	1:B:59:TRP:CA	1:B:88:ASP:CB	2	0.45
(1,271)	1:B:59:TRP:CA	1:C:88:ASP:CB	2	0.45
(1,271)	1:B:59:TRP:CA	1:D:88:ASP:CB	2	0.45
(1,271)	1:B:59:TRP:CA	1:E:88:ASP:CB	2	0.45
(1,271)	1:C:59:TRP:CA	1:A:88:ASP:CB	2	0.45
(1,271)	1:C:59:TRP:CA	1:B:88:ASP:CB	2	0.45
(1,271)	1:C:59:TRP:CA	1:C:88:ASP:CB	2	0.45
(1,271)	1:C:59:TRP:CA	1:D:88:ASP:CB	2	0.45
(1,271)	1:C:59:TRP:CA	1:E:88:ASP:CB	2	0.45
(1,271)	1:D:59:TRP:CA	1:A:88:ASP:CB	2	0.45
(1,271)	1:D:59:TRP:CA	1:B:88:ASP:CB	2	0.45
(1,271)	1:D:59:TRP:CA	1:C:88:ASP:CB	2	0.45
(1,271)	1:D:59:TRP:CA	1:D:88:ASP:CB	2	0.45
(1,271)	1:D:59:TRP:CA	1:E:88:ASP:CB	2	0.45
(1,271)	1:E:59:TRP:CA	1:A:88:ASP:CB	2	0.45
(1,271)	1:E:59:TRP:CA	1:B:88:ASP:CB	2	0.45
(1,271)	1:E:59:TRP:CA	1:C:88:ASP:CB	2	0.45
(1,271)	1:E:59:TRP:CA	1:D:88:ASP:CB	2	0.45
(1,271)	1:E:59:TRP:CA	1:E:88:ASP:CB	2	0.45
(1,271)	1:A:59:TRP:CA	1:A:88:ASP:CB	3	0.45
(1,271)	1:A:59:TRP:CA	1:B:88:ASP:CB	3	0.45
(1,271)	1:A:59:TRP:CA	1:C:88:ASP:CB	3	0.45
(1,271)	1:A:59:TRP:CA	1:D:88:ASP:CB	3	0.45
(1,271)	1:A:59:TRP:CA	1:E:88:ASP:CB	3	0.45
(1,271)	1:B:59:TRP:CA	1:A:88:ASP:CB	3	0.45
(1,271)	1:B:59:TRP:CA	1:B:88:ASP:CB	3	0.45
(1,271)	1:B:59:TRP:CA	1:C:88:ASP:CB	3	0.45
(1,271)	1:B:59:TRP:CA	1:D:88:ASP:CB	3	0.45
(1,271)	1:B:59:TRP:CA	1:E:88:ASP:CB	3	0.45
(1,271)	1:C:59:TRP:CA	1:A:88:ASP:CB	3	0.45
(1,271)	1:C:59:TRP:CA	1:B:88:ASP:CB	3	0.45
(1,271)	1:C:59:TRP:CA	1:C:88:ASP:CB	3	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,271)	1:C:59:TRP:CA	1:D:88:ASP:CB	3	0.45
(1,271)	1:C:59:TRP:CA	1:E:88:ASP:CB	3	0.45
(1,271)	1:D:59:TRP:CA	1:A:88:ASP:CB	3	0.45
(1,271)	1:D:59:TRP:CA	1:B:88:ASP:CB	3	0.45
(1,271)	1:D:59:TRP:CA	1:C:88:ASP:CB	3	0.45
(1,271)	1:D:59:TRP:CA	1:D:88:ASP:CB	3	0.45
(1,271)	1:D:59:TRP:CA	1:E:88:ASP:CB	3	0.45
(1,271)	1:E:59:TRP:CA	1:A:88:ASP:CB	3	0.45
(1,271)	1:E:59:TRP:CA	1:B:88:ASP:CB	3	0.45
(1,271)	1:E:59:TRP:CA	1:C:88:ASP:CB	3	0.45
(1,271)	1:E:59:TRP:CA	1:D:88:ASP:CB	3	0.45
(1,271)	1:E:59:TRP:CA	1:E:88:ASP:CB	3	0.45
(1,271)	1:A:59:TRP:CA	1:A:88:ASP:CB	4	0.45
(1,271)	1:A:59:TRP:CA	1:B:88:ASP:CB	4	0.45
(1,271)	1:A:59:TRP:CA	1:C:88:ASP:CB	4	0.45
(1,271)	1:A:59:TRP:CA	1:D:88:ASP:CB	4	0.45
(1,271)	1:A:59:TRP:CA	1:E:88:ASP:CB	4	0.45
(1,271)	1:B:59:TRP:CA	1:A:88:ASP:CB	4	0.45
(1,271)	1:B:59:TRP:CA	1:B:88:ASP:CB	4	0.45
(1,271)	1:B:59:TRP:CA	1:C:88:ASP:CB	4	0.45
(1,271)	1:B:59:TRP:CA	1:D:88:ASP:CB	4	0.45
(1,271)	1:B:59:TRP:CA	1:E:88:ASP:CB	4	0.45
(1,271)	1:C:59:TRP:CA	1:A:88:ASP:CB	4	0.45
(1,271)	1:C:59:TRP:CA	1:B:88:ASP:CB	4	0.45
(1,271)	1:C:59:TRP:CA	1:C:88:ASP:CB	4	0.45
(1,271)	1:C:59:TRP:CA	1:D:88:ASP:CB	4	0.45
(1,271)	1:C:59:TRP:CA	1:E:88:ASP:CB	4	0.45
(1,271)	1:D:59:TRP:CA	1:A:88:ASP:CB	4	0.45
(1,271)	1:D:59:TRP:CA	1:B:88:ASP:CB	4	0.45
(1,271)	1:D:59:TRP:CA	1:C:88:ASP:CB	4	0.45
(1,271)	1:D:59:TRP:CA	1:D:88:ASP:CB	4	0.45
(1,271)	1:D:59:TRP:CA	1:E:88:ASP:CB	4	0.45
(1,271)	1:E:59:TRP:CA	1:A:88:ASP:CB	4	0.45
(1,271)	1:E:59:TRP:CA	1:B:88:ASP:CB	4	0.45
(1,271)	1:E:59:TRP:CA	1:C:88:ASP:CB	4	0.45
(1,271)	1:E:59:TRP:CA	1:D:88:ASP:CB	4	0.45
(1,271)	1:E:59:TRP:CA	1:E:88:ASP:CB	4	0.45
(1,271)	1:A:59:TRP:CA	1:A:88:ASP:CB	5	0.45
(1,271)	1:A:59:TRP:CA	1:B:88:ASP:CB	5	0.45
(1,271)	1:A:59:TRP:CA	1:C:88:ASP:CB	5	0.45
(1,271)	1:A:59:TRP:CA	1:D:88:ASP:CB	5	0.45
(1,271)	1:A:59:TRP:CA	1:E:88:ASP:CB	5	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,271)	1:B:59:TRP:CA	1:A:88:ASP:CB	5	0.45
(1,271)	1:B:59:TRP:CA	1:B:88:ASP:CB	5	0.45
(1,271)	1:B:59:TRP:CA	1:C:88:ASP:CB	5	0.45
(1,271)	1:B:59:TRP:CA	1:D:88:ASP:CB	5	0.45
(1,271)	1:B:59:TRP:CA	1:E:88:ASP:CB	5	0.45
(1,271)	1:C:59:TRP:CA	1:A:88:ASP:CB	5	0.45
(1,271)	1:C:59:TRP:CA	1:B:88:ASP:CB	5	0.45
(1,271)	1:C:59:TRP:CA	1:C:88:ASP:CB	5	0.45
(1,271)	1:C:59:TRP:CA	1:D:88:ASP:CB	5	0.45
(1,271)	1:C:59:TRP:CA	1:E:88:ASP:CB	5	0.45
(1,271)	1:D:59:TRP:CA	1:A:88:ASP:CB	5	0.45
(1,271)	1:D:59:TRP:CA	1:B:88:ASP:CB	5	0.45
(1,271)	1:D:59:TRP:CA	1:C:88:ASP:CB	5	0.45
(1,271)	1:D:59:TRP:CA	1:D:88:ASP:CB	5	0.45
(1,271)	1:D:59:TRP:CA	1:E:88:ASP:CB	5	0.45
(1,271)	1:E:59:TRP:CA	1:A:88:ASP:CB	5	0.45
(1,271)	1:E:59:TRP:CA	1:B:88:ASP:CB	5	0.45
(1,271)	1:E:59:TRP:CA	1:C:88:ASP:CB	5	0.45
(1,271)	1:E:59:TRP:CA	1:D:88:ASP:CB	5	0.45
(1,271)	1:E:59:TRP:CA	1:E:88:ASP:CB	5	0.45
(2,52)	1:A:53:GLY:N	1:A:50:ASP:OD1	2	0.39
(2,52)	1:A:53:GLY:N	1:B:50:ASP:OD1	2	0.39
(2,52)	1:A:53:GLY:N	1:C:50:ASP:OD1	2	0.39
(2,52)	1:A:53:GLY:N	1:D:50:ASP:OD1	2	0.39
(2,52)	1:A:53:GLY:N	1:E:50:ASP:OD1	2	0.39
(2,52)	1:B:53:GLY:N	1:A:50:ASP:OD1	2	0.39
(2,52)	1:B:53:GLY:N	1:B:50:ASP:OD1	2	0.39
(2,52)	1:B:53:GLY:N	1:C:50:ASP:OD1	2	0.39
(2,52)	1:B:53:GLY:N	1:D:50:ASP:OD1	2	0.39
(2,52)	1:B:53:GLY:N	1:E:50:ASP:OD1	2	0.39
(2,52)	1:C:53:GLY:N	1:A:50:ASP:OD1	2	0.39
(2,52)	1:C:53:GLY:N	1:B:50:ASP:OD1	2	0.39
(2,52)	1:C:53:GLY:N	1:C:50:ASP:OD1	2	0.39
(2,52)	1:C:53:GLY:N	1:D:50:ASP:OD1	2	0.39
(2,52)	1:C:53:GLY:N	1:E:50:ASP:OD1	2	0.39
(2,52)	1:D:53:GLY:N	1:A:50:ASP:OD1	2	0.39
(2,52)	1:D:53:GLY:N	1:B:50:ASP:OD1	2	0.39
(2,52)	1:D:53:GLY:N	1:C:50:ASP:OD1	2	0.39
(2,52)	1:D:53:GLY:N	1:D:50:ASP:OD1	2	0.39
(2,52)	1:D:53:GLY:N	1:E:50:ASP:OD1	2	0.39
(2,52)	1:E:53:GLY:N	1:A:50:ASP:OD1	2	0.39
(2,52)	1:E:53:GLY:N	1:B:50:ASP:OD1	2	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:E:53:GLY:N	1:C:50:ASP:OD1	2	0.39
(2,52)	1:E:53:GLY:N	1:D:50:ASP:OD1	2	0.39
(2,52)	1:E:53:GLY:N	1:E:50:ASP:OD1	2	0.39
(2,49)	1:A:50:ASP:OD1	1:A:53:GLY:N	2	0.39
(2,49)	1:A:50:ASP:OD1	1:B:53:GLY:N	2	0.39
(2,49)	1:A:50:ASP:OD1	1:C:53:GLY:N	2	0.39
(2,49)	1:A:50:ASP:OD1	1:D:53:GLY:N	2	0.39
(2,49)	1:A:50:ASP:OD1	1:E:53:GLY:N	2	0.39
(2,49)	1:B:50:ASP:OD1	1:A:53:GLY:N	2	0.39
(2,49)	1:B:50:ASP:OD1	1:B:53:GLY:N	2	0.39
(2,49)	1:B:50:ASP:OD1	1:C:53:GLY:N	2	0.39
(2,49)	1:B:50:ASP:OD1	1:D:53:GLY:N	2	0.39
(2,49)	1:B:50:ASP:OD1	1:E:53:GLY:N	2	0.39
(2,49)	1:C:50:ASP:OD1	1:A:53:GLY:N	2	0.39
(2,49)	1:C:50:ASP:OD1	1:B:53:GLY:N	2	0.39
(2,49)	1:C:50:ASP:OD1	1:C:53:GLY:N	2	0.39
(2,49)	1:C:50:ASP:OD1	1:D:53:GLY:N	2	0.39
(2,49)	1:C:50:ASP:OD1	1:E:53:GLY:N	2	0.39
(2,49)	1:D:50:ASP:OD1	1:A:53:GLY:N	2	0.39
(2,49)	1:D:50:ASP:OD1	1:B:53:GLY:N	2	0.39
(2,49)	1:D:50:ASP:OD1	1:C:53:GLY:N	2	0.39
(2,49)	1:D:50:ASP:OD1	1:D:53:GLY:N	2	0.39
(2,49)	1:D:50:ASP:OD1	1:E:53:GLY:N	2	0.39
(2,49)	1:E:50:ASP:OD1	1:A:53:GLY:N	2	0.39
(2,49)	1:E:50:ASP:OD1	1:B:53:GLY:N	2	0.39
(2,49)	1:E:50:ASP:OD1	1:C:53:GLY:N	2	0.39
(2,49)	1:E:50:ASP:OD1	1:D:53:GLY:N	2	0.39
(2,49)	1:E:50:ASP:OD1	1:E:53:GLY:N	2	0.39
(2,52)	1:A:53:GLY:N	1:A:50:ASP:OD1	1	0.38
(2,52)	1:A:53:GLY:N	1:B:50:ASP:OD1	1	0.38
(2,52)	1:A:53:GLY:N	1:C:50:ASP:OD1	1	0.38
(2,52)	1:A:53:GLY:N	1:D:50:ASP:OD1	1	0.38
(2,52)	1:A:53:GLY:N	1:E:50:ASP:OD1	1	0.38
(2,52)	1:B:53:GLY:N	1:A:50:ASP:OD1	1	0.38
(2,52)	1:B:53:GLY:N	1:B:50:ASP:OD1	1	0.38
(2,52)	1:B:53:GLY:N	1:C:50:ASP:OD1	1	0.38
(2,52)	1:B:53:GLY:N	1:D:50:ASP:OD1	1	0.38
(2,52)	1:B:53:GLY:N	1:E:50:ASP:OD1	1	0.38
(2,52)	1:C:53:GLY:N	1:A:50:ASP:OD1	1	0.38
(2,52)	1:C:53:GLY:N	1:B:50:ASP:OD1	1	0.38
(2,52)	1:C:53:GLY:N	1:C:50:ASP:OD1	1	0.38
(2,52)	1:C:53:GLY:N	1:D:50:ASP:OD1	1	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:C:53:GLY:N	1:E:50:ASP:OD1	1	0.38
(2,52)	1:D:53:GLY:N	1:A:50:ASP:OD1	1	0.38
(2,52)	1:D:53:GLY:N	1:B:50:ASP:OD1	1	0.38
(2,52)	1:D:53:GLY:N	1:C:50:ASP:OD1	1	0.38
(2,52)	1:D:53:GLY:N	1:D:50:ASP:OD1	1	0.38
(2,52)	1:D:53:GLY:N	1:E:50:ASP:OD1	1	0.38
(2,52)	1:E:53:GLY:N	1:A:50:ASP:OD1	1	0.38
(2,52)	1:E:53:GLY:N	1:B:50:ASP:OD1	1	0.38
(2,52)	1:E:53:GLY:N	1:C:50:ASP:OD1	1	0.38
(2,52)	1:E:53:GLY:N	1:D:50:ASP:OD1	1	0.38
(2,52)	1:E:53:GLY:N	1:E:50:ASP:OD1	1	0.38
(2,52)	1:A:53:GLY:N	1:A:50:ASP:OD1	4	0.38
(2,52)	1:A:53:GLY:N	1:B:50:ASP:OD1	4	0.38
(2,52)	1:A:53:GLY:N	1:C:50:ASP:OD1	4	0.38
(2,52)	1:A:53:GLY:N	1:D:50:ASP:OD1	4	0.38
(2,52)	1:A:53:GLY:N	1:E:50:ASP:OD1	4	0.38
(2,52)	1:B:53:GLY:N	1:A:50:ASP:OD1	4	0.38
(2,52)	1:B:53:GLY:N	1:B:50:ASP:OD1	4	0.38
(2,52)	1:B:53:GLY:N	1:C:50:ASP:OD1	4	0.38
(2,52)	1:B:53:GLY:N	1:D:50:ASP:OD1	4	0.38
(2,52)	1:B:53:GLY:N	1:E:50:ASP:OD1	4	0.38
(2,52)	1:C:53:GLY:N	1:A:50:ASP:OD1	4	0.38
(2,52)	1:C:53:GLY:N	1:B:50:ASP:OD1	4	0.38
(2,52)	1:C:53:GLY:N	1:C:50:ASP:OD1	4	0.38
(2,52)	1:C:53:GLY:N	1:D:50:ASP:OD1	4	0.38
(2,52)	1:C:53:GLY:N	1:E:50:ASP:OD1	4	0.38
(2,52)	1:D:53:GLY:N	1:A:50:ASP:OD1	4	0.38
(2,52)	1:D:53:GLY:N	1:B:50:ASP:OD1	4	0.38
(2,52)	1:D:53:GLY:N	1:C:50:ASP:OD1	4	0.38
(2,52)	1:D:53:GLY:N	1:D:50:ASP:OD1	4	0.38
(2,52)	1:D:53:GLY:N	1:E:50:ASP:OD1	4	0.38
(2,52)	1:E:53:GLY:N	1:A:50:ASP:OD1	4	0.38
(2,52)	1:E:53:GLY:N	1:B:50:ASP:OD1	4	0.38
(2,52)	1:E:53:GLY:N	1:C:50:ASP:OD1	4	0.38
(2,52)	1:E:53:GLY:N	1:D:50:ASP:OD1	4	0.38
(2,52)	1:E:53:GLY:N	1:E:50:ASP:OD1	4	0.38
(2,52)	1:A:53:GLY:N	1:A:50:ASP:OD1	5	0.38
(2,52)	1:A:53:GLY:N	1:B:50:ASP:OD1	5	0.38
(2,52)	1:A:53:GLY:N	1:C:50:ASP:OD1	5	0.38
(2,52)	1:A:53:GLY:N	1:D:50:ASP:OD1	5	0.38
(2,52)	1:A:53:GLY:N	1:E:50:ASP:OD1	5	0.38
(2,52)	1:B:53:GLY:N	1:A:50:ASP:OD1	5	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:B:53:GLY:N	1:B:50:ASP:OD1	5	0.38
(2,52)	1:B:53:GLY:N	1:C:50:ASP:OD1	5	0.38
(2,52)	1:B:53:GLY:N	1:D:50:ASP:OD1	5	0.38
(2,52)	1:B:53:GLY:N	1:E:50:ASP:OD1	5	0.38
(2,52)	1:C:53:GLY:N	1:A:50:ASP:OD1	5	0.38
(2,52)	1:C:53:GLY:N	1:B:50:ASP:OD1	5	0.38
(2,52)	1:C:53:GLY:N	1:C:50:ASP:OD1	5	0.38
(2,52)	1:C:53:GLY:N	1:D:50:ASP:OD1	5	0.38
(2,52)	1:C:53:GLY:N	1:E:50:ASP:OD1	5	0.38
(2,52)	1:D:53:GLY:N	1:A:50:ASP:OD1	5	0.38
(2,52)	1:D:53:GLY:N	1:B:50:ASP:OD1	5	0.38
(2,52)	1:D:53:GLY:N	1:C:50:ASP:OD1	5	0.38
(2,52)	1:D:53:GLY:N	1:D:50:ASP:OD1	5	0.38
(2,52)	1:D:53:GLY:N	1:E:50:ASP:OD1	5	0.38
(2,52)	1:E:53:GLY:N	1:A:50:ASP:OD1	5	0.38
(2,52)	1:E:53:GLY:N	1:B:50:ASP:OD1	5	0.38
(2,52)	1:E:53:GLY:N	1:C:50:ASP:OD1	5	0.38
(2,52)	1:E:53:GLY:N	1:D:50:ASP:OD1	5	0.38
(2,52)	1:E:53:GLY:N	1:E:50:ASP:OD1	5	0.38
(2,49)	1:A:50:ASP:OD1	1:A:53:GLY:N	1	0.38
(2,49)	1:A:50:ASP:OD1	1:B:53:GLY:N	1	0.38
(2,49)	1:A:50:ASP:OD1	1:C:53:GLY:N	1	0.38
(2,49)	1:A:50:ASP:OD1	1:D:53:GLY:N	1	0.38
(2,49)	1:A:50:ASP:OD1	1:E:53:GLY:N	1	0.38
(2,49)	1:B:50:ASP:OD1	1:A:53:GLY:N	1	0.38
(2,49)	1:B:50:ASP:OD1	1:B:53:GLY:N	1	0.38
(2,49)	1:B:50:ASP:OD1	1:C:53:GLY:N	1	0.38
(2,49)	1:B:50:ASP:OD1	1:D:53:GLY:N	1	0.38
(2,49)	1:B:50:ASP:OD1	1:E:53:GLY:N	1	0.38
(2,49)	1:C:50:ASP:OD1	1:A:53:GLY:N	1	0.38
(2,49)	1:C:50:ASP:OD1	1:B:53:GLY:N	1	0.38
(2,49)	1:C:50:ASP:OD1	1:C:53:GLY:N	1	0.38
(2,49)	1:C:50:ASP:OD1	1:D:53:GLY:N	1	0.38
(2,49)	1:C:50:ASP:OD1	1:E:53:GLY:N	1	0.38
(2,49)	1:D:50:ASP:OD1	1:A:53:GLY:N	1	0.38
(2,49)	1:D:50:ASP:OD1	1:B:53:GLY:N	1	0.38
(2,49)	1:D:50:ASP:OD1	1:C:53:GLY:N	1	0.38
(2,49)	1:D:50:ASP:OD1	1:D:53:GLY:N	1	0.38
(2,49)	1:D:50:ASP:OD1	1:E:53:GLY:N	1	0.38
(2,49)	1:E:50:ASP:OD1	1:A:53:GLY:N	1	0.38
(2,49)	1:E:50:ASP:OD1	1:B:53:GLY:N	1	0.38
(2,49)	1:E:50:ASP:OD1	1:C:53:GLY:N	1	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,49)	1:E:50:ASP:OD1	1:D:53:GLY:N	1	0.38
(2,49)	1:E:50:ASP:OD1	1:E:53:GLY:N	1	0.38
(2,49)	1:A:50:ASP:OD1	1:A:53:GLY:N	4	0.38
(2,49)	1:A:50:ASP:OD1	1:B:53:GLY:N	4	0.38
(2,49)	1:A:50:ASP:OD1	1:C:53:GLY:N	4	0.38
(2,49)	1:A:50:ASP:OD1	1:D:53:GLY:N	4	0.38
(2,49)	1:A:50:ASP:OD1	1:E:53:GLY:N	4	0.38
(2,49)	1:B:50:ASP:OD1	1:A:53:GLY:N	4	0.38
(2,49)	1:B:50:ASP:OD1	1:B:53:GLY:N	4	0.38
(2,49)	1:B:50:ASP:OD1	1:C:53:GLY:N	4	0.38
(2,49)	1:B:50:ASP:OD1	1:D:53:GLY:N	4	0.38
(2,49)	1:B:50:ASP:OD1	1:E:53:GLY:N	4	0.38
(2,49)	1:C:50:ASP:OD1	1:A:53:GLY:N	4	0.38
(2,49)	1:C:50:ASP:OD1	1:B:53:GLY:N	4	0.38
(2,49)	1:C:50:ASP:OD1	1:C:53:GLY:N	4	0.38
(2,49)	1:C:50:ASP:OD1	1:D:53:GLY:N	4	0.38
(2,49)	1:C:50:ASP:OD1	1:E:53:GLY:N	4	0.38
(2,49)	1:D:50:ASP:OD1	1:A:53:GLY:N	4	0.38
(2,49)	1:D:50:ASP:OD1	1:B:53:GLY:N	4	0.38
(2,49)	1:D:50:ASP:OD1	1:C:53:GLY:N	4	0.38
(2,49)	1:D:50:ASP:OD1	1:D:53:GLY:N	4	0.38
(2,49)	1:D:50:ASP:OD1	1:E:53:GLY:N	4	0.38
(2,49)	1:E:50:ASP:OD1	1:A:53:GLY:N	4	0.38
(2,49)	1:E:50:ASP:OD1	1:B:53:GLY:N	4	0.38
(2,49)	1:E:50:ASP:OD1	1:C:53:GLY:N	4	0.38
(2,49)	1:E:50:ASP:OD1	1:D:53:GLY:N	4	0.38
(2,49)	1:E:50:ASP:OD1	1:E:53:GLY:N	4	0.38
(2,49)	1:A:50:ASP:OD1	1:A:53:GLY:N	5	0.38
(2,49)	1:A:50:ASP:OD1	1:B:53:GLY:N	5	0.38
(2,49)	1:A:50:ASP:OD1	1:C:53:GLY:N	5	0.38
(2,49)	1:A:50:ASP:OD1	1:D:53:GLY:N	5	0.38
(2,49)	1:A:50:ASP:OD1	1:E:53:GLY:N	5	0.38
(2,49)	1:B:50:ASP:OD1	1:A:53:GLY:N	5	0.38
(2,49)	1:B:50:ASP:OD1	1:B:53:GLY:N	5	0.38
(2,49)	1:B:50:ASP:OD1	1:C:53:GLY:N	5	0.38
(2,49)	1:B:50:ASP:OD1	1:D:53:GLY:N	5	0.38
(2,49)	1:B:50:ASP:OD1	1:E:53:GLY:N	5	0.38
(2,49)	1:C:50:ASP:OD1	1:A:53:GLY:N	5	0.38
(2,49)	1:C:50:ASP:OD1	1:B:53:GLY:N	5	0.38
(2,49)	1:C:50:ASP:OD1	1:C:53:GLY:N	5	0.38
(2,49)	1:C:50:ASP:OD1	1:D:53:GLY:N	5	0.38
(2,49)	1:C:50:ASP:OD1	1:E:53:GLY:N	5	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,49)	1:D:50:ASP:OD1	1:A:53:GLY:N	5	0.38
(2,49)	1:D:50:ASP:OD1	1:B:53:GLY:N	5	0.38
(2,49)	1:D:50:ASP:OD1	1:C:53:GLY:N	5	0.38
(2,49)	1:D:50:ASP:OD1	1:D:53:GLY:N	5	0.38
(2,49)	1:D:50:ASP:OD1	1:E:53:GLY:N	5	0.38
(2,49)	1:E:50:ASP:OD1	1:A:53:GLY:N	5	0.38
(2,49)	1:E:50:ASP:OD1	1:B:53:GLY:N	5	0.38
(2,49)	1:E:50:ASP:OD1	1:C:53:GLY:N	5	0.38
(2,49)	1:E:50:ASP:OD1	1:D:53:GLY:N	5	0.38
(2,49)	1:E:50:ASP:OD1	1:E:53:GLY:N	5	0.38
(2,52)	1:A:53:GLY:N	1:A:50:ASP:OD1	3	0.36
(2,52)	1:A:53:GLY:N	1:B:50:ASP:OD1	3	0.36
(2,52)	1:A:53:GLY:N	1:C:50:ASP:OD1	3	0.36
(2,52)	1:A:53:GLY:N	1:D:50:ASP:OD1	3	0.36
(2,52)	1:A:53:GLY:N	1:E:50:ASP:OD1	3	0.36
(2,52)	1:B:53:GLY:N	1:A:50:ASP:OD1	3	0.36
(2,52)	1:B:53:GLY:N	1:B:50:ASP:OD1	3	0.36
(2,52)	1:B:53:GLY:N	1:C:50:ASP:OD1	3	0.36
(2,52)	1:B:53:GLY:N	1:D:50:ASP:OD1	3	0.36
(2,52)	1:B:53:GLY:N	1:E:50:ASP:OD1	3	0.36
(2,52)	1:C:53:GLY:N	1:A:50:ASP:OD1	3	0.36
(2,52)	1:C:53:GLY:N	1:B:50:ASP:OD1	3	0.36
(2,52)	1:C:53:GLY:N	1:C:50:ASP:OD1	3	0.36
(2,52)	1:C:53:GLY:N	1:D:50:ASP:OD1	3	0.36
(2,52)	1:C:53:GLY:N	1:E:50:ASP:OD1	3	0.36
(2,52)	1:D:53:GLY:N	1:A:50:ASP:OD1	3	0.36
(2,52)	1:D:53:GLY:N	1:B:50:ASP:OD1	3	0.36
(2,52)	1:D:53:GLY:N	1:C:50:ASP:OD1	3	0.36
(2,52)	1:D:53:GLY:N	1:D:50:ASP:OD1	3	0.36
(2,52)	1:D:53:GLY:N	1:E:50:ASP:OD1	3	0.36
(2,52)	1:E:53:GLY:N	1:A:50:ASP:OD1	3	0.36
(2,52)	1:E:53:GLY:N	1:B:50:ASP:OD1	3	0.36
(2,52)	1:E:53:GLY:N	1:C:50:ASP:OD1	3	0.36
(2,52)	1:E:53:GLY:N	1:D:50:ASP:OD1	3	0.36
(2,52)	1:E:53:GLY:N	1:E:50:ASP:OD1	3	0.36
(2,49)	1:A:50:ASP:OD1	1:A:53:GLY:N	3	0.36
(2,49)	1:A:50:ASP:OD1	1:B:53:GLY:N	3	0.36
(2,49)	1:A:50:ASP:OD1	1:C:53:GLY:N	3	0.36
(2,49)	1:A:50:ASP:OD1	1:D:53:GLY:N	3	0.36
(2,49)	1:A:50:ASP:OD1	1:E:53:GLY:N	3	0.36
(2,49)	1:B:50:ASP:OD1	1:A:53:GLY:N	3	0.36
(2,49)	1:B:50:ASP:OD1	1:B:53:GLY:N	3	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,49)	1:B:50:ASP:OD1	1:C:53:GLY:N	3	0.36
(2,49)	1:B:50:ASP:OD1	1:D:53:GLY:N	3	0.36
(2,49)	1:B:50:ASP:OD1	1:E:53:GLY:N	3	0.36
(2,49)	1:C:50:ASP:OD1	1:A:53:GLY:N	3	0.36
(2,49)	1:C:50:ASP:OD1	1:B:53:GLY:N	3	0.36
(2,49)	1:C:50:ASP:OD1	1:C:53:GLY:N	3	0.36
(2,49)	1:C:50:ASP:OD1	1:D:53:GLY:N	3	0.36
(2,49)	1:C:50:ASP:OD1	1:E:53:GLY:N	3	0.36
(2,49)	1:D:50:ASP:OD1	1:A:53:GLY:N	3	0.36
(2,49)	1:D:50:ASP:OD1	1:B:53:GLY:N	3	0.36
(2,49)	1:D:50:ASP:OD1	1:C:53:GLY:N	3	0.36
(2,49)	1:D:50:ASP:OD1	1:D:53:GLY:N	3	0.36
(2,49)	1:D:50:ASP:OD1	1:E:53:GLY:N	3	0.36
(2,49)	1:E:50:ASP:OD1	1:A:53:GLY:N	3	0.36
(2,49)	1:E:50:ASP:OD1	1:B:53:GLY:N	3	0.36
(2,49)	1:E:50:ASP:OD1	1:C:53:GLY:N	3	0.36
(2,49)	1:E:50:ASP:OD1	1:D:53:GLY:N	3	0.36
(2,49)	1:E:50:ASP:OD1	1:E:53:GLY:N	3	0.36
(1,278)	1:A:65:GLY:CA	1:A:71:ILE:CA	3	0.29
(1,278)	1:A:65:GLY:CA	1:B:71:ILE:CA	3	0.29
(1,278)	1:A:65:GLY:CA	1:C:71:ILE:CA	3	0.29
(1,278)	1:A:65:GLY:CA	1:D:71:ILE:CA	3	0.29
(1,278)	1:A:65:GLY:CA	1:E:71:ILE:CA	3	0.29
(1,278)	1:B:65:GLY:CA	1:A:71:ILE:CA	3	0.29
(1,278)	1:B:65:GLY:CA	1:B:71:ILE:CA	3	0.29
(1,278)	1:B:65:GLY:CA	1:C:71:ILE:CA	3	0.29
(1,278)	1:B:65:GLY:CA	1:D:71:ILE:CA	3	0.29
(1,278)	1:B:65:GLY:CA	1:E:71:ILE:CA	3	0.29
(1,278)	1:C:65:GLY:CA	1:A:71:ILE:CA	3	0.29
(1,278)	1:C:65:GLY:CA	1:B:71:ILE:CA	3	0.29
(1,278)	1:C:65:GLY:CA	1:C:71:ILE:CA	3	0.29
(1,278)	1:C:65:GLY:CA	1:D:71:ILE:CA	3	0.29
(1,278)	1:C:65:GLY:CA	1:E:71:ILE:CA	3	0.29
(1,278)	1:D:65:GLY:CA	1:A:71:ILE:CA	3	0.29
(1,278)	1:D:65:GLY:CA	1:B:71:ILE:CA	3	0.29
(1,278)	1:D:65:GLY:CA	1:C:71:ILE:CA	3	0.29
(1,278)	1:D:65:GLY:CA	1:D:71:ILE:CA	3	0.29
(1,278)	1:D:65:GLY:CA	1:E:71:ILE:CA	3	0.29
(1,278)	1:E:65:GLY:CA	1:A:71:ILE:CA	3	0.29
(1,278)	1:E:65:GLY:CA	1:B:71:ILE:CA	3	0.29
(1,278)	1:E:65:GLY:CA	1:C:71:ILE:CA	3	0.29
(1,278)	1:E:65:GLY:CA	1:D:71:ILE:CA	3	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:E:65:GLY:CA	1:E:71:ILE:CA	3	0.29
(1,278)	1:A:65:GLY:CA	1:A:71:ILE:CA	1	0.28
(1,278)	1:A:65:GLY:CA	1:B:71:ILE:CA	1	0.28
(1,278)	1:A:65:GLY:CA	1:C:71:ILE:CA	1	0.28
(1,278)	1:A:65:GLY:CA	1:D:71:ILE:CA	1	0.28
(1,278)	1:A:65:GLY:CA	1:E:71:ILE:CA	1	0.28
(1,278)	1:B:65:GLY:CA	1:A:71:ILE:CA	1	0.28
(1,278)	1:B:65:GLY:CA	1:B:71:ILE:CA	1	0.28
(1,278)	1:B:65:GLY:CA	1:C:71:ILE:CA	1	0.28
(1,278)	1:B:65:GLY:CA	1:D:71:ILE:CA	1	0.28
(1,278)	1:B:65:GLY:CA	1:E:71:ILE:CA	1	0.28
(1,278)	1:C:65:GLY:CA	1:A:71:ILE:CA	1	0.28
(1,278)	1:C:65:GLY:CA	1:B:71:ILE:CA	1	0.28
(1,278)	1:C:65:GLY:CA	1:C:71:ILE:CA	1	0.28
(1,278)	1:C:65:GLY:CA	1:D:71:ILE:CA	1	0.28
(1,278)	1:C:65:GLY:CA	1:E:71:ILE:CA	1	0.28
(1,278)	1:D:65:GLY:CA	1:A:71:ILE:CA	1	0.28
(1,278)	1:D:65:GLY:CA	1:B:71:ILE:CA	1	0.28
(1,278)	1:D:65:GLY:CA	1:C:71:ILE:CA	1	0.28
(1,278)	1:D:65:GLY:CA	1:D:71:ILE:CA	1	0.28
(1,278)	1:D:65:GLY:CA	1:E:71:ILE:CA	1	0.28
(1,278)	1:E:65:GLY:CA	1:A:71:ILE:CA	1	0.28
(1,278)	1:E:65:GLY:CA	1:B:71:ILE:CA	1	0.28
(1,278)	1:E:65:GLY:CA	1:C:71:ILE:CA	1	0.28
(1,278)	1:E:65:GLY:CA	1:D:71:ILE:CA	1	0.28
(1,278)	1:E:65:GLY:CA	1:E:71:ILE:CA	1	0.28
(1,278)	1:A:65:GLY:CA	1:A:71:ILE:CA	2	0.28
(1,278)	1:A:65:GLY:CA	1:B:71:ILE:CA	2	0.28
(1,278)	1:A:65:GLY:CA	1:C:71:ILE:CA	2	0.28
(1,278)	1:A:65:GLY:CA	1:D:71:ILE:CA	2	0.28
(1,278)	1:A:65:GLY:CA	1:E:71:ILE:CA	2	0.28
(1,278)	1:B:65:GLY:CA	1:A:71:ILE:CA	2	0.28
(1,278)	1:B:65:GLY:CA	1:B:71:ILE:CA	2	0.28
(1,278)	1:B:65:GLY:CA	1:C:71:ILE:CA	2	0.28
(1,278)	1:B:65:GLY:CA	1:D:71:ILE:CA	2	0.28
(1,278)	1:B:65:GLY:CA	1:E:71:ILE:CA	2	0.28
(1,278)	1:C:65:GLY:CA	1:A:71:ILE:CA	2	0.28
(1,278)	1:C:65:GLY:CA	1:B:71:ILE:CA	2	0.28
(1,278)	1:C:65:GLY:CA	1:C:71:ILE:CA	2	0.28
(1,278)	1:C:65:GLY:CA	1:D:71:ILE:CA	2	0.28
(1,278)	1:C:65:GLY:CA	1:E:71:ILE:CA	2	0.28
(1,278)	1:D:65:GLY:CA	1:A:71:ILE:CA	2	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:D:65:GLY:CA	1:B:71:ILE:CA	2	0.28
(1,278)	1:D:65:GLY:CA	1:C:71:ILE:CA	2	0.28
(1,278)	1:D:65:GLY:CA	1:D:71:ILE:CA	2	0.28
(1,278)	1:D:65:GLY:CA	1:E:71:ILE:CA	2	0.28
(1,278)	1:E:65:GLY:CA	1:A:71:ILE:CA	2	0.28
(1,278)	1:E:65:GLY:CA	1:B:71:ILE:CA	2	0.28
(1,278)	1:E:65:GLY:CA	1:C:71:ILE:CA	2	0.28
(1,278)	1:E:65:GLY:CA	1:D:71:ILE:CA	2	0.28
(1,278)	1:E:65:GLY:CA	1:E:71:ILE:CA	2	0.28
(1,278)	1:A:65:GLY:CA	1:A:71:ILE:CA	4	0.28
(1,278)	1:A:65:GLY:CA	1:B:71:ILE:CA	4	0.28
(1,278)	1:A:65:GLY:CA	1:C:71:ILE:CA	4	0.28
(1,278)	1:A:65:GLY:CA	1:D:71:ILE:CA	4	0.28
(1,278)	1:A:65:GLY:CA	1:E:71:ILE:CA	4	0.28
(1,278)	1:B:65:GLY:CA	1:A:71:ILE:CA	4	0.28
(1,278)	1:B:65:GLY:CA	1:B:71:ILE:CA	4	0.28
(1,278)	1:B:65:GLY:CA	1:C:71:ILE:CA	4	0.28
(1,278)	1:B:65:GLY:CA	1:D:71:ILE:CA	4	0.28
(1,278)	1:B:65:GLY:CA	1:E:71:ILE:CA	4	0.28
(1,278)	1:C:65:GLY:CA	1:A:71:ILE:CA	4	0.28
(1,278)	1:C:65:GLY:CA	1:B:71:ILE:CA	4	0.28
(1,278)	1:C:65:GLY:CA	1:C:71:ILE:CA	4	0.28
(1,278)	1:C:65:GLY:CA	1:D:71:ILE:CA	4	0.28
(1,278)	1:C:65:GLY:CA	1:E:71:ILE:CA	4	0.28
(1,278)	1:D:65:GLY:CA	1:A:71:ILE:CA	4	0.28
(1,278)	1:D:65:GLY:CA	1:B:71:ILE:CA	4	0.28
(1,278)	1:D:65:GLY:CA	1:C:71:ILE:CA	4	0.28
(1,278)	1:D:65:GLY:CA	1:D:71:ILE:CA	4	0.28
(1,278)	1:D:65:GLY:CA	1:E:71:ILE:CA	4	0.28
(1,278)	1:E:65:GLY:CA	1:A:71:ILE:CA	4	0.28
(1,278)	1:E:65:GLY:CA	1:B:71:ILE:CA	4	0.28
(1,278)	1:E:65:GLY:CA	1:C:71:ILE:CA	4	0.28
(1,278)	1:E:65:GLY:CA	1:D:71:ILE:CA	4	0.28
(1,278)	1:E:65:GLY:CA	1:E:71:ILE:CA	4	0.28
(1,278)	1:A:65:GLY:CA	1:A:71:ILE:CA	5	0.28
(1,278)	1:A:65:GLY:CA	1:B:71:ILE:CA	5	0.28
(1,278)	1:A:65:GLY:CA	1:C:71:ILE:CA	5	0.28
(1,278)	1:A:65:GLY:CA	1:D:71:ILE:CA	5	0.28
(1,278)	1:A:65:GLY:CA	1:E:71:ILE:CA	5	0.28
(1,278)	1:B:65:GLY:CA	1:A:71:ILE:CA	5	0.28
(1,278)	1:B:65:GLY:CA	1:B:71:ILE:CA	5	0.28
(1,278)	1:B:65:GLY:CA	1:C:71:ILE:CA	5	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,278)	1:B:65:GLY:CA	1:D:71:ILE:CA	5	0.28
(1,278)	1:B:65:GLY:CA	1:E:71:ILE:CA	5	0.28
(1,278)	1:C:65:GLY:CA	1:A:71:ILE:CA	5	0.28
(1,278)	1:C:65:GLY:CA	1:B:71:ILE:CA	5	0.28
(1,278)	1:C:65:GLY:CA	1:C:71:ILE:CA	5	0.28
(1,278)	1:C:65:GLY:CA	1:D:71:ILE:CA	5	0.28
(1,278)	1:C:65:GLY:CA	1:E:71:ILE:CA	5	0.28
(1,278)	1:D:65:GLY:CA	1:A:71:ILE:CA	5	0.28
(1,278)	1:D:65:GLY:CA	1:B:71:ILE:CA	5	0.28
(1,278)	1:D:65:GLY:CA	1:C:71:ILE:CA	5	0.28
(1,278)	1:D:65:GLY:CA	1:D:71:ILE:CA	5	0.28
(1,278)	1:D:65:GLY:CA	1:E:71:ILE:CA	5	0.28
(1,278)	1:E:65:GLY:CA	1:A:71:ILE:CA	5	0.28
(1,278)	1:E:65:GLY:CA	1:B:71:ILE:CA	5	0.28
(1,278)	1:E:65:GLY:CA	1:C:71:ILE:CA	5	0.28
(1,278)	1:E:65:GLY:CA	1:D:71:ILE:CA	5	0.28
(1,278)	1:E:65:GLY:CA	1:E:71:ILE:CA	5	0.28
(1,291)	1:A:82:ALA:CA	1:A:24:PHE:CB	1	0.27
(1,291)	1:A:82:ALA:CA	1:B:24:PHE:CB	1	0.27
(1,291)	1:A:82:ALA:CA	1:C:24:PHE:CB	1	0.27
(1,291)	1:A:82:ALA:CA	1:D:24:PHE:CB	1	0.27
(1,291)	1:A:82:ALA:CA	1:E:24:PHE:CB	1	0.27
(1,291)	1:B:82:ALA:CA	1:A:24:PHE:CB	1	0.27
(1,291)	1:B:82:ALA:CA	1:B:24:PHE:CB	1	0.27
(1,291)	1:B:82:ALA:CA	1:C:24:PHE:CB	1	0.27
(1,291)	1:B:82:ALA:CA	1:D:24:PHE:CB	1	0.27
(1,291)	1:B:82:ALA:CA	1:E:24:PHE:CB	1	0.27
(1,291)	1:C:82:ALA:CA	1:A:24:PHE:CB	1	0.27
(1,291)	1:C:82:ALA:CA	1:B:24:PHE:CB	1	0.27
(1,291)	1:C:82:ALA:CA	1:C:24:PHE:CB	1	0.27
(1,291)	1:C:82:ALA:CA	1:D:24:PHE:CB	1	0.27
(1,291)	1:C:82:ALA:CA	1:E:24:PHE:CB	1	0.27
(1,291)	1:D:82:ALA:CA	1:A:24:PHE:CB	1	0.27
(1,291)	1:D:82:ALA:CA	1:B:24:PHE:CB	1	0.27
(1,291)	1:D:82:ALA:CA	1:C:24:PHE:CB	1	0.27
(1,291)	1:D:82:ALA:CA	1:D:24:PHE:CB	1	0.27
(1,291)	1:D:82:ALA:CA	1:E:24:PHE:CB	1	0.27
(1,291)	1:E:82:ALA:CA	1:A:24:PHE:CB	1	0.27
(1,291)	1:E:82:ALA:CA	1:B:24:PHE:CB	1	0.27
(1,291)	1:E:82:ALA:CA	1:C:24:PHE:CB	1	0.27
(1,291)	1:E:82:ALA:CA	1:D:24:PHE:CB	1	0.27
(1,291)	1:E:82:ALA:CA	1:E:24:PHE:CB	1	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,291)	1:A:82:ALA:CA	1:A:24:PHE:CB	2	0.27
(1,291)	1:A:82:ALA:CA	1:B:24:PHE:CB	2	0.27
(1,291)	1:A:82:ALA:CA	1:C:24:PHE:CB	2	0.27
(1,291)	1:A:82:ALA:CA	1:D:24:PHE:CB	2	0.27
(1,291)	1:A:82:ALA:CA	1:E:24:PHE:CB	2	0.27
(1,291)	1:B:82:ALA:CA	1:A:24:PHE:CB	2	0.27
(1,291)	1:B:82:ALA:CA	1:B:24:PHE:CB	2	0.27
(1,291)	1:B:82:ALA:CA	1:C:24:PHE:CB	2	0.27
(1,291)	1:B:82:ALA:CA	1:D:24:PHE:CB	2	0.27
(1,291)	1:B:82:ALA:CA	1:E:24:PHE:CB	2	0.27
(1,291)	1:C:82:ALA:CA	1:A:24:PHE:CB	2	0.27
(1,291)	1:C:82:ALA:CA	1:B:24:PHE:CB	2	0.27
(1,291)	1:C:82:ALA:CA	1:C:24:PHE:CB	2	0.27
(1,291)	1:C:82:ALA:CA	1:D:24:PHE:CB	2	0.27
(1,291)	1:C:82:ALA:CA	1:E:24:PHE:CB	2	0.27
(1,291)	1:D:82:ALA:CA	1:A:24:PHE:CB	2	0.27
(1,291)	1:D:82:ALA:CA	1:B:24:PHE:CB	2	0.27
(1,291)	1:D:82:ALA:CA	1:C:24:PHE:CB	2	0.27
(1,291)	1:D:82:ALA:CA	1:D:24:PHE:CB	2	0.27
(1,291)	1:D:82:ALA:CA	1:E:24:PHE:CB	2	0.27
(1,291)	1:E:82:ALA:CA	1:A:24:PHE:CB	2	0.27
(1,291)	1:E:82:ALA:CA	1:B:24:PHE:CB	2	0.27
(1,291)	1:E:82:ALA:CA	1:C:24:PHE:CB	2	0.27
(1,291)	1:E:82:ALA:CA	1:D:24:PHE:CB	2	0.27
(1,291)	1:E:82:ALA:CA	1:E:24:PHE:CB	2	0.27
(1,291)	1:A:82:ALA:CA	1:A:24:PHE:CB	3	0.27
(1,291)	1:A:82:ALA:CA	1:B:24:PHE:CB	3	0.27
(1,291)	1:A:82:ALA:CA	1:C:24:PHE:CB	3	0.27
(1,291)	1:A:82:ALA:CA	1:D:24:PHE:CB	3	0.27
(1,291)	1:A:82:ALA:CA	1:E:24:PHE:CB	3	0.27
(1,291)	1:B:82:ALA:CA	1:A:24:PHE:CB	3	0.27
(1,291)	1:B:82:ALA:CA	1:B:24:PHE:CB	3	0.27
(1,291)	1:B:82:ALA:CA	1:C:24:PHE:CB	3	0.27
(1,291)	1:B:82:ALA:CA	1:D:24:PHE:CB	3	0.27
(1,291)	1:B:82:ALA:CA	1:E:24:PHE:CB	3	0.27
(1,291)	1:C:82:ALA:CA	1:A:24:PHE:CB	3	0.27
(1,291)	1:C:82:ALA:CA	1:B:24:PHE:CB	3	0.27
(1,291)	1:C:82:ALA:CA	1:C:24:PHE:CB	3	0.27
(1,291)	1:C:82:ALA:CA	1:D:24:PHE:CB	3	0.27
(1,291)	1:C:82:ALA:CA	1:E:24:PHE:CB	3	0.27
(1,291)	1:D:82:ALA:CA	1:A:24:PHE:CB	3	0.27
(1,291)	1:D:82:ALA:CA	1:B:24:PHE:CB	3	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,291)	1:D:82:ALA:CA	1:C:24:PHE:CB	3	0.27
(1,291)	1:D:82:ALA:CA	1:D:24:PHE:CB	3	0.27
(1,291)	1:D:82:ALA:CA	1:E:24:PHE:CB	3	0.27
(1,291)	1:E:82:ALA:CA	1:A:24:PHE:CB	3	0.27
(1,291)	1:E:82:ALA:CA	1:B:24:PHE:CB	3	0.27
(1,291)	1:E:82:ALA:CA	1:C:24:PHE:CB	3	0.27
(1,291)	1:E:82:ALA:CA	1:D:24:PHE:CB	3	0.27
(1,291)	1:E:82:ALA:CA	1:E:24:PHE:CB	3	0.27
(1,291)	1:A:82:ALA:CA	1:A:24:PHE:CB	4	0.27
(1,291)	1:A:82:ALA:CA	1:B:24:PHE:CB	4	0.27
(1,291)	1:A:82:ALA:CA	1:C:24:PHE:CB	4	0.27
(1,291)	1:A:82:ALA:CA	1:D:24:PHE:CB	4	0.27
(1,291)	1:A:82:ALA:CA	1:E:24:PHE:CB	4	0.27
(1,291)	1:B:82:ALA:CA	1:A:24:PHE:CB	4	0.27
(1,291)	1:B:82:ALA:CA	1:B:24:PHE:CB	4	0.27
(1,291)	1:B:82:ALA:CA	1:C:24:PHE:CB	4	0.27
(1,291)	1:B:82:ALA:CA	1:D:24:PHE:CB	4	0.27
(1,291)	1:B:82:ALA:CA	1:E:24:PHE:CB	4	0.27
(1,291)	1:C:82:ALA:CA	1:A:24:PHE:CB	4	0.27
(1,291)	1:C:82:ALA:CA	1:B:24:PHE:CB	4	0.27
(1,291)	1:C:82:ALA:CA	1:C:24:PHE:CB	4	0.27
(1,291)	1:C:82:ALA:CA	1:D:24:PHE:CB	4	0.27
(1,291)	1:C:82:ALA:CA	1:E:24:PHE:CB	4	0.27
(1,291)	1:D:82:ALA:CA	1:A:24:PHE:CB	4	0.27
(1,291)	1:D:82:ALA:CA	1:B:24:PHE:CB	4	0.27
(1,291)	1:D:82:ALA:CA	1:C:24:PHE:CB	4	0.27
(1,291)	1:D:82:ALA:CA	1:D:24:PHE:CB	4	0.27
(1,291)	1:D:82:ALA:CA	1:E:24:PHE:CB	4	0.27
(1,291)	1:E:82:ALA:CA	1:A:24:PHE:CB	4	0.27
(1,291)	1:E:82:ALA:CA	1:B:24:PHE:CB	4	0.27
(1,291)	1:E:82:ALA:CA	1:C:24:PHE:CB	4	0.27
(1,291)	1:E:82:ALA:CA	1:D:24:PHE:CB	4	0.27
(1,291)	1:E:82:ALA:CA	1:E:24:PHE:CB	4	0.27
(1,291)	1:A:82:ALA:CA	1:A:24:PHE:CB	5	0.26
(1,291)	1:A:82:ALA:CA	1:B:24:PHE:CB	5	0.26
(1,291)	1:A:82:ALA:CA	1:C:24:PHE:CB	5	0.26
(1,291)	1:A:82:ALA:CA	1:D:24:PHE:CB	5	0.26
(1,291)	1:A:82:ALA:CA	1:E:24:PHE:CB	5	0.26
(1,291)	1:B:82:ALA:CA	1:A:24:PHE:CB	5	0.26
(1,291)	1:B:82:ALA:CA	1:B:24:PHE:CB	5	0.26
(1,291)	1:B:82:ALA:CA	1:C:24:PHE:CB	5	0.26
(1,291)	1:B:82:ALA:CA	1:D:24:PHE:CB	5	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,291)	1:B:82:ALA:CA	1:E:24:PHE:CB	5	0.26
(1,291)	1:C:82:ALA:CA	1:A:24:PHE:CB	5	0.26
(1,291)	1:C:82:ALA:CA	1:B:24:PHE:CB	5	0.26
(1,291)	1:C:82:ALA:CA	1:C:24:PHE:CB	5	0.26
(1,291)	1:C:82:ALA:CA	1:D:24:PHE:CB	5	0.26
(1,291)	1:C:82:ALA:CA	1:E:24:PHE:CB	5	0.26
(1,291)	1:D:82:ALA:CA	1:A:24:PHE:CB	5	0.26
(1,291)	1:D:82:ALA:CA	1:B:24:PHE:CB	5	0.26
(1,291)	1:D:82:ALA:CA	1:C:24:PHE:CB	5	0.26
(1,291)	1:D:82:ALA:CA	1:D:24:PHE:CB	5	0.26
(1,291)	1:D:82:ALA:CA	1:E:24:PHE:CB	5	0.26
(1,291)	1:E:82:ALA:CA	1:A:24:PHE:CB	5	0.26
(1,291)	1:E:82:ALA:CA	1:B:24:PHE:CB	5	0.26
(1,291)	1:E:82:ALA:CA	1:C:24:PHE:CB	5	0.26
(1,291)	1:E:82:ALA:CA	1:D:24:PHE:CB	5	0.26
(1,291)	1:E:82:ALA:CA	1:E:24:PHE:CB	5	0.26
(1,242)	1:A:48:ALA:CA	1:A:60:VAL:CB	3	0.13
(1,242)	1:A:48:ALA:CA	1:B:60:VAL:CB	3	0.13
(1,242)	1:A:48:ALA:CA	1:C:60:VAL:CB	3	0.13
(1,242)	1:A:48:ALA:CA	1:D:60:VAL:CB	3	0.13
(1,242)	1:A:48:ALA:CA	1:E:60:VAL:CB	3	0.13
(1,242)	1:B:48:ALA:CA	1:A:60:VAL:CB	3	0.13
(1,242)	1:B:48:ALA:CA	1:B:60:VAL:CB	3	0.13
(1,242)	1:B:48:ALA:CA	1:C:60:VAL:CB	3	0.13
(1,242)	1:B:48:ALA:CA	1:D:60:VAL:CB	3	0.13
(1,242)	1:B:48:ALA:CA	1:E:60:VAL:CB	3	0.13
(1,242)	1:C:48:ALA:CA	1:A:60:VAL:CB	3	0.13
(1,242)	1:C:48:ALA:CA	1:B:60:VAL:CB	3	0.13
(1,242)	1:C:48:ALA:CA	1:C:60:VAL:CB	3	0.13
(1,242)	1:C:48:ALA:CA	1:D:60:VAL:CB	3	0.13
(1,242)	1:C:48:ALA:CA	1:E:60:VAL:CB	3	0.13
(1,242)	1:D:48:ALA:CA	1:A:60:VAL:CB	3	0.13
(1,242)	1:D:48:ALA:CA	1:B:60:VAL:CB	3	0.13
(1,242)	1:D:48:ALA:CA	1:C:60:VAL:CB	3	0.13
(1,242)	1:D:48:ALA:CA	1:D:60:VAL:CB	3	0.13
(1,242)	1:D:48:ALA:CA	1:E:60:VAL:CB	3	0.13
(1,242)	1:E:48:ALA:CA	1:A:60:VAL:CB	3	0.13
(1,242)	1:E:48:ALA:CA	1:B:60:VAL:CB	3	0.13
(1,242)	1:E:48:ALA:CA	1:C:60:VAL:CB	3	0.13
(1,242)	1:E:48:ALA:CA	1:D:60:VAL:CB	3	0.13
(1,242)	1:E:48:ALA:CA	1:E:60:VAL:CB	3	0.13
(1,304)	1:A:84:VAL:CB	1:A:64:ARG:CG	5	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,304)	1:A:84:VAL:CB	1:B:64:ARG:CG	5	0.12
(1,304)	1:A:84:VAL:CB	1:C:64:ARG:CG	5	0.12
(1,304)	1:A:84:VAL:CB	1:D:64:ARG:CG	5	0.12
(1,304)	1:A:84:VAL:CB	1:E:64:ARG:CG	5	0.12
(1,304)	1:B:84:VAL:CB	1:A:64:ARG:CG	5	0.12
(1,304)	1:B:84:VAL:CB	1:B:64:ARG:CG	5	0.12
(1,304)	1:B:84:VAL:CB	1:C:64:ARG:CG	5	0.12
(1,304)	1:B:84:VAL:CB	1:D:64:ARG:CG	5	0.12
(1,304)	1:B:84:VAL:CB	1:E:64:ARG:CG	5	0.12
(1,304)	1:C:84:VAL:CB	1:A:64:ARG:CG	5	0.12
(1,304)	1:C:84:VAL:CB	1:B:64:ARG:CG	5	0.12
(1,304)	1:C:84:VAL:CB	1:C:64:ARG:CG	5	0.12
(1,304)	1:C:84:VAL:CB	1:D:64:ARG:CG	5	0.12
(1,304)	1:C:84:VAL:CB	1:E:64:ARG:CG	5	0.12
(1,304)	1:D:84:VAL:CB	1:A:64:ARG:CG	5	0.12
(1,304)	1:D:84:VAL:CB	1:B:64:ARG:CG	5	0.12
(1,304)	1:D:84:VAL:CB	1:C:64:ARG:CG	5	0.12
(1,304)	1:D:84:VAL:CB	1:D:64:ARG:CG	5	0.12
(1,304)	1:D:84:VAL:CB	1:E:64:ARG:CG	5	0.12
(1,304)	1:E:84:VAL:CB	1:A:64:ARG:CG	5	0.12
(1,304)	1:E:84:VAL:CB	1:B:64:ARG:CG	5	0.12
(1,304)	1:E:84:VAL:CB	1:C:64:ARG:CG	5	0.12
(1,304)	1:E:84:VAL:CB	1:D:64:ARG:CG	5	0.12
(1,304)	1:E:84:VAL:CB	1:E:64:ARG:CG	5	0.12
(1,242)	1:A:48:ALA:CA	1:A:60:VAL:CB	1	0.12
(1,242)	1:A:48:ALA:CA	1:B:60:VAL:CB	1	0.12
(1,242)	1:A:48:ALA:CA	1:C:60:VAL:CB	1	0.12
(1,242)	1:A:48:ALA:CA	1:D:60:VAL:CB	1	0.12
(1,242)	1:A:48:ALA:CA	1:E:60:VAL:CB	1	0.12
(1,242)	1:B:48:ALA:CA	1:A:60:VAL:CB	1	0.12
(1,242)	1:B:48:ALA:CA	1:B:60:VAL:CB	1	0.12
(1,242)	1:B:48:ALA:CA	1:C:60:VAL:CB	1	0.12
(1,242)	1:B:48:ALA:CA	1:D:60:VAL:CB	1	0.12
(1,242)	1:B:48:ALA:CA	1:E:60:VAL:CB	1	0.12
(1,242)	1:C:48:ALA:CA	1:A:60:VAL:CB	1	0.12
(1,242)	1:C:48:ALA:CA	1:B:60:VAL:CB	1	0.12
(1,242)	1:C:48:ALA:CA	1:C:60:VAL:CB	1	0.12
(1,242)	1:C:48:ALA:CA	1:D:60:VAL:CB	1	0.12
(1,242)	1:C:48:ALA:CA	1:E:60:VAL:CB	1	0.12
(1,242)	1:D:48:ALA:CA	1:A:60:VAL:CB	1	0.12
(1,242)	1:D:48:ALA:CA	1:B:60:VAL:CB	1	0.12
(1,242)	1:D:48:ALA:CA	1:C:60:VAL:CB	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:D:48:ALA:CA	1:D:60:VAL:CB	1	0.12
(1,242)	1:D:48:ALA:CA	1:E:60:VAL:CB	1	0.12
(1,242)	1:E:48:ALA:CA	1:A:60:VAL:CB	1	0.12
(1,242)	1:E:48:ALA:CA	1:B:60:VAL:CB	1	0.12
(1,242)	1:E:48:ALA:CA	1:C:60:VAL:CB	1	0.12
(1,242)	1:E:48:ALA:CA	1:D:60:VAL:CB	1	0.12
(1,242)	1:E:48:ALA:CA	1:E:60:VAL:CB	1	0.12
(1,242)	1:A:48:ALA:CA	1:A:60:VAL:CB	2	0.12
(1,242)	1:A:48:ALA:CA	1:B:60:VAL:CB	2	0.12
(1,242)	1:A:48:ALA:CA	1:C:60:VAL:CB	2	0.12
(1,242)	1:A:48:ALA:CA	1:D:60:VAL:CB	2	0.12
(1,242)	1:A:48:ALA:CA	1:E:60:VAL:CB	2	0.12
(1,242)	1:B:48:ALA:CA	1:A:60:VAL:CB	2	0.12
(1,242)	1:B:48:ALA:CA	1:B:60:VAL:CB	2	0.12
(1,242)	1:B:48:ALA:CA	1:C:60:VAL:CB	2	0.12
(1,242)	1:B:48:ALA:CA	1:D:60:VAL:CB	2	0.12
(1,242)	1:B:48:ALA:CA	1:E:60:VAL:CB	2	0.12
(1,242)	1:C:48:ALA:CA	1:A:60:VAL:CB	2	0.12
(1,242)	1:C:48:ALA:CA	1:B:60:VAL:CB	2	0.12
(1,242)	1:C:48:ALA:CA	1:C:60:VAL:CB	2	0.12
(1,242)	1:C:48:ALA:CA	1:D:60:VAL:CB	2	0.12
(1,242)	1:C:48:ALA:CA	1:E:60:VAL:CB	2	0.12
(1,242)	1:D:48:ALA:CA	1:A:60:VAL:CB	2	0.12
(1,242)	1:D:48:ALA:CA	1:B:60:VAL:CB	2	0.12
(1,242)	1:D:48:ALA:CA	1:C:60:VAL:CB	2	0.12
(1,242)	1:D:48:ALA:CA	1:D:60:VAL:CB	2	0.12
(1,242)	1:D:48:ALA:CA	1:E:60:VAL:CB	2	0.12
(1,242)	1:E:48:ALA:CA	1:A:60:VAL:CB	2	0.12
(1,242)	1:E:48:ALA:CA	1:B:60:VAL:CB	2	0.12
(1,242)	1:E:48:ALA:CA	1:C:60:VAL:CB	2	0.12
(1,242)	1:E:48:ALA:CA	1:D:60:VAL:CB	2	0.12
(1,242)	1:E:48:ALA:CA	1:E:60:VAL:CB	2	0.12
(1,242)	1:A:48:ALA:CA	1:A:60:VAL:CB	4	0.12
(1,242)	1:A:48:ALA:CA	1:B:60:VAL:CB	4	0.12
(1,242)	1:A:48:ALA:CA	1:C:60:VAL:CB	4	0.12
(1,242)	1:A:48:ALA:CA	1:D:60:VAL:CB	4	0.12
(1,242)	1:A:48:ALA:CA	1:E:60:VAL:CB	4	0.12
(1,242)	1:B:48:ALA:CA	1:A:60:VAL:CB	4	0.12
(1,242)	1:B:48:ALA:CA	1:B:60:VAL:CB	4	0.12
(1,242)	1:B:48:ALA:CA	1:C:60:VAL:CB	4	0.12
(1,242)	1:B:48:ALA:CA	1:D:60:VAL:CB	4	0.12
(1,242)	1:B:48:ALA:CA	1:E:60:VAL:CB	4	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,242)	1:C:48:ALA:CA	1:A:60:VAL:CB	4	0.12
(1,242)	1:C:48:ALA:CA	1:B:60:VAL:CB	4	0.12
(1,242)	1:C:48:ALA:CA	1:C:60:VAL:CB	4	0.12
(1,242)	1:C:48:ALA:CA	1:D:60:VAL:CB	4	0.12
(1,242)	1:C:48:ALA:CA	1:E:60:VAL:CB	4	0.12
(1,242)	1:D:48:ALA:CA	1:A:60:VAL:CB	4	0.12
(1,242)	1:D:48:ALA:CA	1:B:60:VAL:CB	4	0.12
(1,242)	1:D:48:ALA:CA	1:C:60:VAL:CB	4	0.12
(1,242)	1:D:48:ALA:CA	1:D:60:VAL:CB	4	0.12
(1,242)	1:D:48:ALA:CA	1:E:60:VAL:CB	4	0.12
(1,242)	1:E:48:ALA:CA	1:A:60:VAL:CB	4	0.12
(1,242)	1:E:48:ALA:CA	1:B:60:VAL:CB	4	0.12
(1,242)	1:E:48:ALA:CA	1:C:60:VAL:CB	4	0.12
(1,242)	1:E:48:ALA:CA	1:D:60:VAL:CB	4	0.12
(1,242)	1:E:48:ALA:CA	1:E:60:VAL:CB	4	0.12
(1,242)	1:A:48:ALA:CA	1:A:60:VAL:CB	5	0.12
(1,242)	1:A:48:ALA:CA	1:B:60:VAL:CB	5	0.12
(1,242)	1:A:48:ALA:CA	1:C:60:VAL:CB	5	0.12
(1,242)	1:A:48:ALA:CA	1:D:60:VAL:CB	5	0.12
(1,242)	1:A:48:ALA:CA	1:E:60:VAL:CB	5	0.12
(1,242)	1:B:48:ALA:CA	1:A:60:VAL:CB	5	0.12
(1,242)	1:B:48:ALA:CA	1:B:60:VAL:CB	5	0.12
(1,242)	1:B:48:ALA:CA	1:C:60:VAL:CB	5	0.12
(1,242)	1:B:48:ALA:CA	1:D:60:VAL:CB	5	0.12
(1,242)	1:B:48:ALA:CA	1:E:60:VAL:CB	5	0.12
(1,242)	1:C:48:ALA:CA	1:A:60:VAL:CB	5	0.12
(1,242)	1:C:48:ALA:CA	1:B:60:VAL:CB	5	0.12
(1,242)	1:C:48:ALA:CA	1:C:60:VAL:CB	5	0.12
(1,242)	1:C:48:ALA:CA	1:D:60:VAL:CB	5	0.12
(1,242)	1:C:48:ALA:CA	1:E:60:VAL:CB	5	0.12
(1,242)	1:D:48:ALA:CA	1:A:60:VAL:CB	5	0.12
(1,242)	1:D:48:ALA:CA	1:B:60:VAL:CB	5	0.12
(1,242)	1:D:48:ALA:CA	1:C:60:VAL:CB	5	0.12
(1,242)	1:D:48:ALA:CA	1:D:60:VAL:CB	5	0.12
(1,242)	1:D:48:ALA:CA	1:E:60:VAL:CB	5	0.12
(1,242)	1:E:48:ALA:CA	1:A:60:VAL:CB	5	0.12
(1,242)	1:E:48:ALA:CA	1:B:60:VAL:CB	5	0.12
(1,242)	1:E:48:ALA:CA	1:C:60:VAL:CB	5	0.12
(1,242)	1:E:48:ALA:CA	1:D:60:VAL:CB	5	0.12
(1,242)	1:E:48:ALA:CA	1:E:60:VAL:CB	5	0.12
(1,306)	1:A:86:ILE:CA	1:A:4:ALA:CA	1	0.11
(1,306)	1:A:86:ILE:CA	1:B:4:ALA:CA	1	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:A:86:ILE:CA	1:C:4:ALA:CA	1	0.11
(1,306)	1:A:86:ILE:CA	1:D:4:ALA:CA	1	0.11
(1,306)	1:A:86:ILE:CA	1:E:4:ALA:CA	1	0.11
(1,306)	1:B:86:ILE:CA	1:A:4:ALA:CA	1	0.11
(1,306)	1:B:86:ILE:CA	1:B:4:ALA:CA	1	0.11
(1,306)	1:B:86:ILE:CA	1:C:4:ALA:CA	1	0.11
(1,306)	1:B:86:ILE:CA	1:D:4:ALA:CA	1	0.11
(1,306)	1:B:86:ILE:CA	1:E:4:ALA:CA	1	0.11
(1,306)	1:C:86:ILE:CA	1:A:4:ALA:CA	1	0.11
(1,306)	1:C:86:ILE:CA	1:B:4:ALA:CA	1	0.11
(1,306)	1:C:86:ILE:CA	1:C:4:ALA:CA	1	0.11
(1,306)	1:C:86:ILE:CA	1:D:4:ALA:CA	1	0.11
(1,306)	1:C:86:ILE:CA	1:E:4:ALA:CA	1	0.11
(1,306)	1:D:86:ILE:CA	1:A:4:ALA:CA	1	0.11
(1,306)	1:D:86:ILE:CA	1:B:4:ALA:CA	1	0.11
(1,306)	1:D:86:ILE:CA	1:C:4:ALA:CA	1	0.11
(1,306)	1:D:86:ILE:CA	1:D:4:ALA:CA	1	0.11
(1,306)	1:D:86:ILE:CA	1:E:4:ALA:CA	1	0.11
(1,306)	1:E:86:ILE:CA	1:A:4:ALA:CA	1	0.11
(1,306)	1:E:86:ILE:CA	1:B:4:ALA:CA	1	0.11
(1,306)	1:E:86:ILE:CA	1:C:4:ALA:CA	1	0.11
(1,306)	1:E:86:ILE:CA	1:D:4:ALA:CA	1	0.11
(1,306)	1:E:86:ILE:CA	1:E:4:ALA:CA	1	0.11
(1,306)	1:A:86:ILE:CA	1:A:4:ALA:CA	2	0.11
(1,306)	1:A:86:ILE:CA	1:B:4:ALA:CA	2	0.11
(1,306)	1:A:86:ILE:CA	1:C:4:ALA:CA	2	0.11
(1,306)	1:A:86:ILE:CA	1:D:4:ALA:CA	2	0.11
(1,306)	1:A:86:ILE:CA	1:E:4:ALA:CA	2	0.11
(1,306)	1:B:86:ILE:CA	1:A:4:ALA:CA	2	0.11
(1,306)	1:B:86:ILE:CA	1:B:4:ALA:CA	2	0.11
(1,306)	1:B:86:ILE:CA	1:C:4:ALA:CA	2	0.11
(1,306)	1:B:86:ILE:CA	1:D:4:ALA:CA	2	0.11
(1,306)	1:B:86:ILE:CA	1:E:4:ALA:CA	2	0.11
(1,306)	1:C:86:ILE:CA	1:A:4:ALA:CA	2	0.11
(1,306)	1:C:86:ILE:CA	1:B:4:ALA:CA	2	0.11
(1,306)	1:C:86:ILE:CA	1:C:4:ALA:CA	2	0.11
(1,306)	1:C:86:ILE:CA	1:D:4:ALA:CA	2	0.11
(1,306)	1:C:86:ILE:CA	1:E:4:ALA:CA	2	0.11
(1,306)	1:D:86:ILE:CA	1:A:4:ALA:CA	2	0.11
(1,306)	1:D:86:ILE:CA	1:B:4:ALA:CA	2	0.11
(1,306)	1:D:86:ILE:CA	1:C:4:ALA:CA	2	0.11
(1,306)	1:D:86:ILE:CA	1:D:4:ALA:CA	2	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:D:86:ILE:CA	1:E:4:ALA:CA	2	0.11
(1,306)	1:E:86:ILE:CA	1:A:4:ALA:CA	2	0.11
(1,306)	1:E:86:ILE:CA	1:B:4:ALA:CA	2	0.11
(1,306)	1:E:86:ILE:CA	1:C:4:ALA:CA	2	0.11
(1,306)	1:E:86:ILE:CA	1:D:4:ALA:CA	2	0.11
(1,306)	1:E:86:ILE:CA	1:E:4:ALA:CA	2	0.11
(1,306)	1:A:86:ILE:CA	1:A:4:ALA:CA	3	0.11
(1,306)	1:A:86:ILE:CA	1:B:4:ALA:CA	3	0.11
(1,306)	1:A:86:ILE:CA	1:C:4:ALA:CA	3	0.11
(1,306)	1:A:86:ILE:CA	1:D:4:ALA:CA	3	0.11
(1,306)	1:A:86:ILE:CA	1:E:4:ALA:CA	3	0.11
(1,306)	1:B:86:ILE:CA	1:A:4:ALA:CA	3	0.11
(1,306)	1:B:86:ILE:CA	1:B:4:ALA:CA	3	0.11
(1,306)	1:B:86:ILE:CA	1:C:4:ALA:CA	3	0.11
(1,306)	1:B:86:ILE:CA	1:D:4:ALA:CA	3	0.11
(1,306)	1:B:86:ILE:CA	1:E:4:ALA:CA	3	0.11
(1,306)	1:C:86:ILE:CA	1:A:4:ALA:CA	3	0.11
(1,306)	1:C:86:ILE:CA	1:B:4:ALA:CA	3	0.11
(1,306)	1:C:86:ILE:CA	1:C:4:ALA:CA	3	0.11
(1,306)	1:C:86:ILE:CA	1:D:4:ALA:CA	3	0.11
(1,306)	1:C:86:ILE:CA	1:E:4:ALA:CA	3	0.11
(1,306)	1:D:86:ILE:CA	1:A:4:ALA:CA	3	0.11
(1,306)	1:D:86:ILE:CA	1:B:4:ALA:CA	3	0.11
(1,306)	1:D:86:ILE:CA	1:C:4:ALA:CA	3	0.11
(1,306)	1:D:86:ILE:CA	1:D:4:ALA:CA	3	0.11
(1,306)	1:D:86:ILE:CA	1:E:4:ALA:CA	3	0.11
(1,306)	1:E:86:ILE:CA	1:A:4:ALA:CA	3	0.11
(1,306)	1:E:86:ILE:CA	1:B:4:ALA:CA	3	0.11
(1,306)	1:E:86:ILE:CA	1:C:4:ALA:CA	3	0.11
(1,306)	1:E:86:ILE:CA	1:D:4:ALA:CA	3	0.11
(1,306)	1:E:86:ILE:CA	1:E:4:ALA:CA	3	0.11
(1,306)	1:A:86:ILE:CA	1:A:4:ALA:CA	4	0.11
(1,306)	1:A:86:ILE:CA	1:B:4:ALA:CA	4	0.11
(1,306)	1:A:86:ILE:CA	1:C:4:ALA:CA	4	0.11
(1,306)	1:A:86:ILE:CA	1:D:4:ALA:CA	4	0.11
(1,306)	1:A:86:ILE:CA	1:E:4:ALA:CA	4	0.11
(1,306)	1:B:86:ILE:CA	1:A:4:ALA:CA	4	0.11
(1,306)	1:B:86:ILE:CA	1:B:4:ALA:CA	4	0.11
(1,306)	1:B:86:ILE:CA	1:C:4:ALA:CA	4	0.11
(1,306)	1:B:86:ILE:CA	1:D:4:ALA:CA	4	0.11
(1,306)	1:B:86:ILE:CA	1:E:4:ALA:CA	4	0.11
(1,306)	1:C:86:ILE:CA	1:A:4:ALA:CA	4	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,306)	1:C:86:ILE:CA	1:B:4:ALA:CA	4	0.11
(1,306)	1:C:86:ILE:CA	1:C:4:ALA:CA	4	0.11
(1,306)	1:C:86:ILE:CA	1:D:4:ALA:CA	4	0.11
(1,306)	1:C:86:ILE:CA	1:E:4:ALA:CA	4	0.11
(1,306)	1:D:86:ILE:CA	1:A:4:ALA:CA	4	0.11
(1,306)	1:D:86:ILE:CA	1:B:4:ALA:CA	4	0.11
(1,306)	1:D:86:ILE:CA	1:C:4:ALA:CA	4	0.11
(1,306)	1:D:86:ILE:CA	1:D:4:ALA:CA	4	0.11
(1,306)	1:D:86:ILE:CA	1:E:4:ALA:CA	4	0.11
(1,306)	1:E:86:ILE:CA	1:A:4:ALA:CA	4	0.11
(1,306)	1:E:86:ILE:CA	1:B:4:ALA:CA	4	0.11
(1,306)	1:E:86:ILE:CA	1:C:4:ALA:CA	4	0.11
(1,306)	1:E:86:ILE:CA	1:D:4:ALA:CA	4	0.11
(1,306)	1:E:86:ILE:CA	1:E:4:ALA:CA	4	0.11
(1,306)	1:A:86:ILE:CA	1:A:4:ALA:CA	5	0.11
(1,306)	1:A:86:ILE:CA	1:B:4:ALA:CA	5	0.11
(1,306)	1:A:86:ILE:CA	1:C:4:ALA:CA	5	0.11
(1,306)	1:A:86:ILE:CA	1:D:4:ALA:CA	5	0.11
(1,306)	1:A:86:ILE:CA	1:E:4:ALA:CA	5	0.11
(1,306)	1:B:86:ILE:CA	1:A:4:ALA:CA	5	0.11
(1,306)	1:B:86:ILE:CA	1:B:4:ALA:CA	5	0.11
(1,306)	1:B:86:ILE:CA	1:C:4:ALA:CA	5	0.11
(1,306)	1:B:86:ILE:CA	1:D:4:ALA:CA	5	0.11
(1,306)	1:B:86:ILE:CA	1:E:4:ALA:CA	5	0.11
(1,306)	1:C:86:ILE:CA	1:A:4:ALA:CA	5	0.11
(1,306)	1:C:86:ILE:CA	1:B:4:ALA:CA	5	0.11
(1,306)	1:C:86:ILE:CA	1:C:4:ALA:CA	5	0.11
(1,306)	1:C:86:ILE:CA	1:D:4:ALA:CA	5	0.11
(1,306)	1:C:86:ILE:CA	1:E:4:ALA:CA	5	0.11
(1,306)	1:D:86:ILE:CA	1:A:4:ALA:CA	5	0.11
(1,306)	1:D:86:ILE:CA	1:B:4:ALA:CA	5	0.11
(1,306)	1:D:86:ILE:CA	1:C:4:ALA:CA	5	0.11
(1,306)	1:D:86:ILE:CA	1:D:4:ALA:CA	5	0.11
(1,306)	1:D:86:ILE:CA	1:E:4:ALA:CA	5	0.11
(1,306)	1:E:86:ILE:CA	1:A:4:ALA:CA	5	0.11
(1,306)	1:E:86:ILE:CA	1:B:4:ALA:CA	5	0.11
(1,306)	1:E:86:ILE:CA	1:C:4:ALA:CA	5	0.11
(1,306)	1:E:86:ILE:CA	1:D:4:ALA:CA	5	0.11
(1,306)	1:E:86:ILE:CA	1:E:4:ALA:CA	5	0.11

10 Dihedral-angle violation analysis (i)

No dihedral-angle restraints found