



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 05:22 AM UTC

PDB ID : 5V2G / pdb_00005v2g
BMRB ID : 30267
Title : De Novo Design of Novel Covalent Constrained Meso-size Peptide Scaffolds with Unique Tertiary Structures
Authors : Dang, B.; Wu, H.; Mulligan, V.K.; Mravic, M.; Wu, Y.; Lemmin, T.; Ford, A.; Silva, D.; Baker, D.; DeGrado, W.F.
Deposited on : 2017-03-03

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
wwPDB-RCI	:	v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV	:	Wang et al. (2010)
wwPDB-ShiftChecker	:	v1.2
BMRB Restraints Analysis	:	v1.2
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

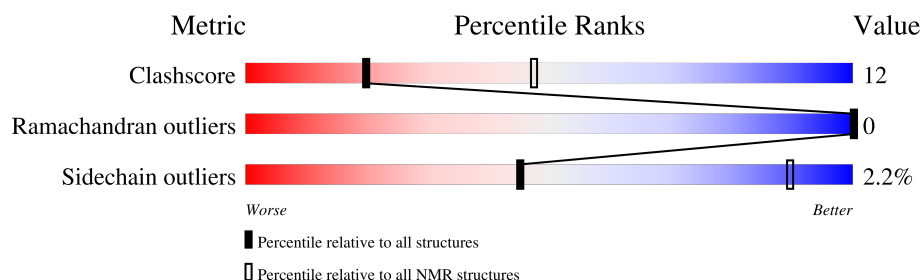
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 21%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	20	85% 15%
1	B	20	90% 10%
1	C	20	90% 10%

2 Ensemble composition and analysis

This entry contains 20 models. Model 11 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:20, B:1-B:20, C:1-C:20 (60)	0.53	11

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 3 clusters and 1 single-model cluster was found.

Cluster number	Models
1	2, 3, 8, 9, 10, 11, 12, 14, 15, 16, 18, 19, 20
2	4, 6, 7, 13
3	1, 17
Single-model clusters	5

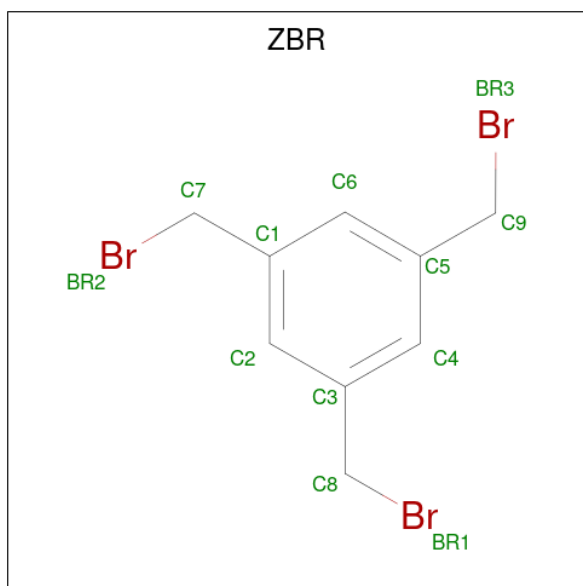
3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 951 atoms, of which 474 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called 20-mer Peptide.

Mol	Chain	Residues	Atoms						Trace
1	A	20	Total	C	H	N	O	S	0
			311	93	155	27	35	1	
1	B	20	Total	C	H	N	O	S	0
			311	93	155	27	35	1	
1	C	20	Total	C	H	N	O	S	0
			311	93	155	27	35	1	

- Molecule 2 is 1,3,5-tris(bromomethyl)benzene (CCD ID: ZBR) (formula: C₉H₉Br₃).



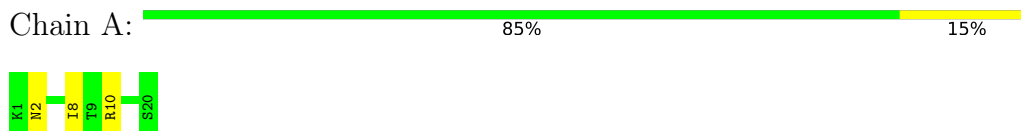
Mol	Chain	Residues	Atoms		
2	A	1	Total	C	H
			18	9	9

4 Residue-property plots

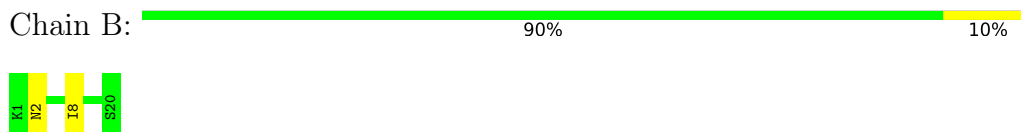
4.1 Average score per residue in the NMR ensemble

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.

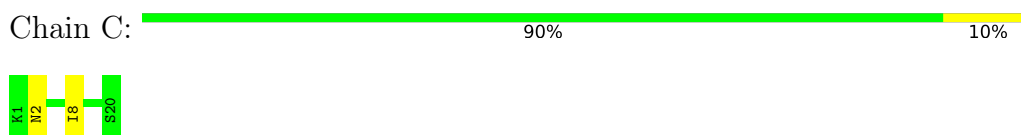
- Molecule 1: 20-mer Peptide



- Molecule 1: 20-mer Peptide



- Molecule 1: 20-mer Peptide

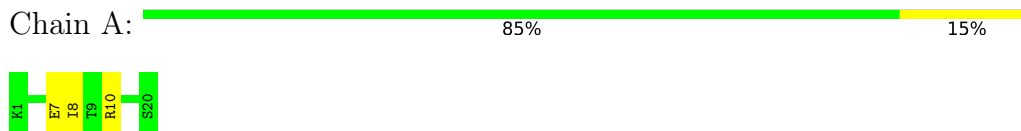


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: 20-mer Peptide



- Molecule 1: 20-mer Peptide

Chain B:  85% 15%



- Molecule 1: 20-mer Peptide

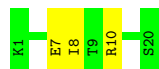
Chain C:  85% 15%



4.2.2 Score per residue for model 2

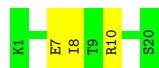
- Molecule 1: 20-mer Peptide

Chain A:  85% 15%



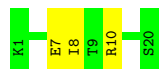
- Molecule 1: 20-mer Peptide

Chain B:  85% 15%



- Molecule 1: 20-mer Peptide

Chain C:  85% 15%



4.2.3 Score per residue for model 3

- Molecule 1: 20-mer Peptide

Chain A:  80% 20%



- Molecule 1: 20-mer Peptide

Chain B:  80% 20%



- Molecule 1: 20-mer Peptide

Chain C: 75% 25%



4.2.4 Score per residue for model 4

- Molecule 1: 20-mer Peptide

Chain A: 80% 15% 5%



- Molecule 1: 20-mer Peptide

Chain B: 75% 20% 5%



- Molecule 1: 20-mer Peptide

Chain C: 80% 15% 5%



4.2.5 Score per residue for model 5

- Molecule 1: 20-mer Peptide

Chain A: 90% 10%

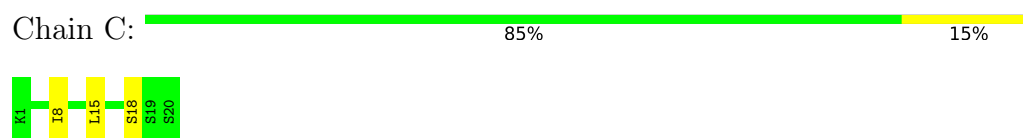


- Molecule 1: 20-mer Peptide

Chain B: 85% 15%

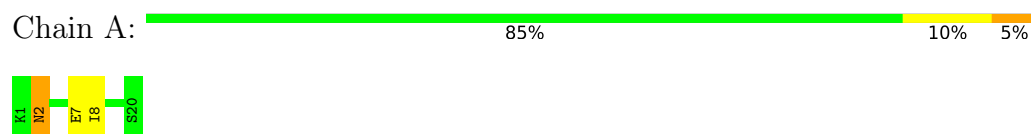


- Molecule 1: 20-mer Peptide

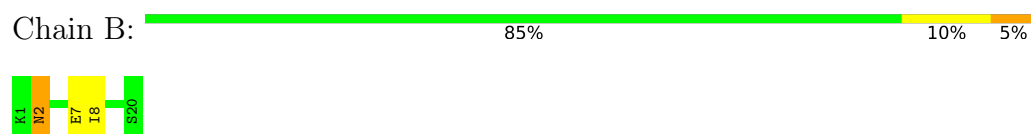


4.2.6 Score per residue for model 6

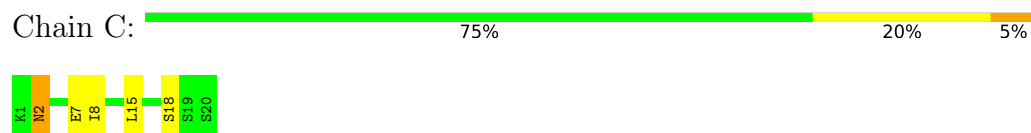
- Molecule 1: 20-mer Peptide



- Molecule 1: 20-mer Peptide

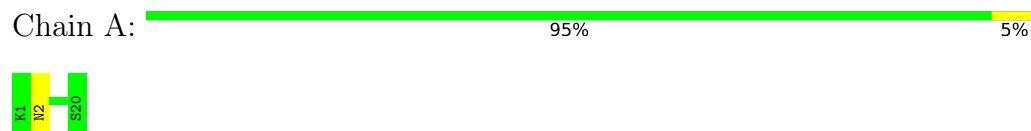


- Molecule 1: 20-mer Peptide

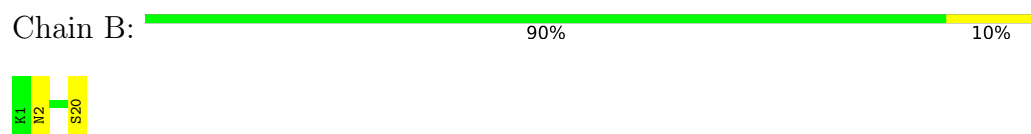


4.2.7 Score per residue for model 7

- Molecule 1: 20-mer Peptide



- Molecule 1: 20-mer Peptide



- Molecule 1: 20-mer Peptide





4.2.8 Score per residue for model 8

- Molecule 1: 20-mer Peptide

Chain A:  85% 15%



- Molecule 1: 20-mer Peptide

Chain B:  85% 15%



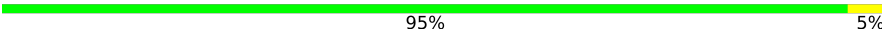
- Molecule 1: 20-mer Peptide

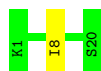
Chain C:  85% 15%



4.2.9 Score per residue for model 9

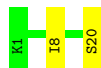
- Molecule 1: 20-mer Peptide

Chain A:  95% 5%



- Molecule 1: 20-mer Peptide

Chain B:  90% 10%



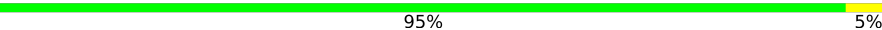
- Molecule 1: 20-mer Peptide

Chain C:  90% 10%



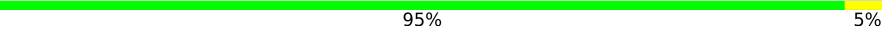
4.2.10 Score per residue for model 10

- Molecule 1: 20-mer Peptide

Chain A:  95% 5%

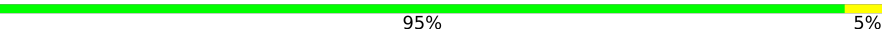


- Molecule 1: 20-mer Peptide

Chain B:  95% 5%



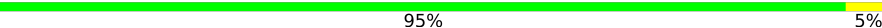
- Molecule 1: 20-mer Peptide

Chain C:  95% 5%



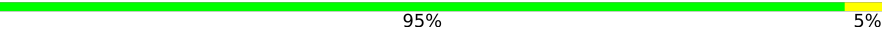
4.2.11 Score per residue for model 11 (medoid)

- Molecule 1: 20-mer Peptide

Chain A:  95% 5%

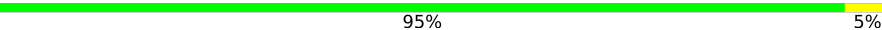


- Molecule 1: 20-mer Peptide

Chain B:  95% 5%



- Molecule 1: 20-mer Peptide

Chain C:  95% 5%



4.2.12 Score per residue for model 12

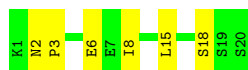
- Molecule 1: 20-mer Peptide

Chain A:  75% 25%



- Molecule 1: 20-mer Peptide

Chain B:  70% 30%



- Molecule 1: 20-mer Peptide

Chain C:  65% 35%



4.2.13 Score per residue for model 13

- Molecule 1: 20-mer Peptide

Chain A:  85% 15%



- Molecule 1: 20-mer Peptide

Chain B:  85% 15%



- Molecule 1: 20-mer Peptide

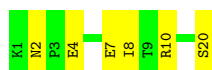
Chain C:  85% 15%



4.2.14 Score per residue for model 14

- Molecule 1: 20-mer Peptide

Chain A:  70% 30%



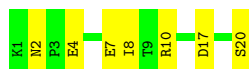
- Molecule 1: 20-mer Peptide

Chain B: 65% 35%



- Molecule 1: 20-mer Peptide

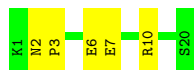
Chain C: 65% 35%



4.2.15 Score per residue for model 15

- Molecule 1: 20-mer Peptide

Chain A: 75% 25%



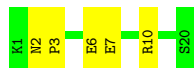
- Molecule 1: 20-mer Peptide

Chain B: 75% 25%



- Molecule 1: 20-mer Peptide

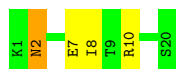
Chain C: 75% 25%



4.2.16 Score per residue for model 16

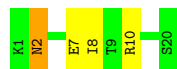
- Molecule 1: 20-mer Peptide

Chain A: 80% 15% 5%



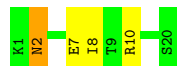
- Molecule 1: 20-mer Peptide

Chain B:  80% 15% 5%



- Molecule 1: 20-mer Peptide

Chain C:  80% 15% 5%



4.2.17 Score per residue for model 17

- Molecule 1: 20-mer Peptide

Chain A:  70% 25% 5%



- Molecule 1: 20-mer Peptide

Chain B:  70% 25% 5%



- Molecule 1: 20-mer Peptide

Chain C:  75% 20% 5%



4.2.18 Score per residue for model 18

- Molecule 1: 20-mer Peptide

Chain A:  65% 30% 5%



- Molecule 1: 20-mer Peptide

Chain B:  90% 5% 5%



- Molecule 1: 20-mer Peptide

Chain C: 90% 5% 5%



4.2.19 Score per residue for model 19

- Molecule 1: 20-mer Peptide

Chain A: 85% 15%



- Molecule 1: 20-mer Peptide

Chain B: 85% 15%



- Molecule 1: 20-mer Peptide

Chain C: 85% 15%



4.2.20 Score per residue for model 20

- Molecule 1: 20-mer Peptide

Chain A: 70% 25% 5%



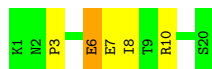
- Molecule 1: 20-mer Peptide

Chain B: 75% 20% 5%



- Molecule 1: 20-mer Peptide

Chain C:  75% 20% 5%



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 20 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 NIH	refinement	
CYANA	structure calculation	

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	168
Number of shifts mapped to atoms	168
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	21%

6 Model quality

6.1 Standard geometry

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

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	156	155	155	4±3
1	B	156	155	155	4±2
1	C	156	155	155	4±2
All	All	9540	9480	9360	235

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 12.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:8:ILE:HD12	1:C:8:ILE:N	0.61	2.10	1	12
1:B:8:ILE:HD12	1:B:8:ILE:N	0.60	2.12	1	10
1:A:8:ILE:HD12	1:A:8:ILE:N	0.60	2.12	1	11
1:B:7:GLU:OE1	1:B:10:ARG:NH1	0.55	2.39	1	2
1:B:20:SER:OG	1:C:2:ASN:ND2	0.54	2.41	8	2
1:C:8:ILE:N	1:C:8:ILE:CD1	0.54	2.71	18	11
1:A:7:GLU:OE1	1:A:10:ARG:NH1	0.54	2.40	1	3
1:A:20:SER:OG	1:B:2:ASN:ND2	0.54	2.41	8	1
1:C:7:GLU:OE1	1:C:10:ARG:NH1	0.53	2.40	1	2
1:A:8:ILE:N	1:A:8:ILE:CD1	0.53	2.71	18	10

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:3:PRO:O	1:A:6:GLU:OE2	0.53	2.27	15	1
1:B:6:GLU:N	1:B:6:GLU:OE2	0.52	2.42	20	1
1:B:8:ILE:N	1:B:8:ILE:CD1	0.52	2.71	18	10
1:C:2:ASN:ND2	1:C:2:ASN:O	0.52	2.43	6	3
1:C:3:PRO:O	1:C:6:GLU:OE2	0.52	2.27	15	1
1:A:6:GLU:N	1:A:6:GLU:OE2	0.52	2.42	20	1
1:C:6:GLU:N	1:C:6:GLU:OE2	0.52	2.42	20	1
1:C:7:GLU:OE2	1:C:10:ARG:NH1	0.52	2.43	17	5
1:A:7:GLU:OE2	1:A:10:ARG:NH1	0.52	2.43	16	5
1:B:7:GLU:OE2	1:B:10:ARG:NH1	0.51	2.43	16	5
1:A:2:ASN:ND2	1:C:20:SER:OG	0.51	2.42	8	2
1:A:18:SER:HB2	1:B:8:ILE:HG21	0.51	1.83	3	1
1:C:2:ASN:O	1:C:2:ASN:ND2	0.51	2.44	17	1
1:B:2:ASN:O	1:B:2:ASN:ND2	0.51	2.43	17	2
1:A:8:ILE:CD1	1:A:8:ILE:N	0.51	2.74	20	2
1:A:2:ASN:ND2	1:A:2:ASN:O	0.51	2.43	6	3
1:B:2:ASN:ND2	1:B:2:ASN:O	0.51	2.43	6	2
1:A:2:ASN:O	1:A:2:ASN:ND2	0.50	2.44	17	1
1:C:4:GLU:OE2	1:C:4:GLU:N	0.50	2.44	14	2
1:B:8:ILE:CD1	1:B:8:ILE:N	0.50	2.75	16	2
1:B:3:PRO:O	1:B:6:GLU:OE2	0.50	2.29	15	1
1:A:8:ILE:N	1:A:8:ILE:HD12	0.49	2.22	20	2
1:B:8:ILE:N	1:B:8:ILE:HD12	0.49	2.22	16	3
1:A:8:ILE:HG21	1:C:18:SER:HB2	0.49	1.84	3	1
1:B:2:ASN:OD1	1:B:2:ASN:N	0.48	2.45	12	3
1:B:7:GLU:CD	1:B:10:ARG:HH11	0.48	2.17	2	6
1:C:8:ILE:CD1	1:C:8:ILE:N	0.48	2.76	5	1
1:A:2:ASN:OD1	1:A:2:ASN:N	0.48	2.46	12	4
1:B:18:SER:HB2	1:C:8:ILE:HG21	0.48	1.85	3	1
1:A:7:GLU:CD	1:A:10:ARG:HH11	0.47	2.17	16	6
1:C:7:GLU:CD	1:C:10:ARG:HH11	0.47	2.17	2	6
1:B:15:LEU:N	1:B:15:LEU:HD12	0.47	2.24	5	1
1:A:15:LEU:CD2	1:A:15:LEU:N	0.47	2.78	17	1
1:B:15:LEU:CD2	1:B:15:LEU:N	0.47	2.78	17	1
1:B:20:SER:OG	1:C:2:ASN:OD1	0.47	2.33	4	2
1:A:15:LEU:HD12	1:A:15:LEU:N	0.47	2.25	5	1
1:C:8:ILE:N	1:C:8:ILE:HD12	0.47	2.25	5	1
1:C:15:LEU:N	1:C:15:LEU:CD2	0.46	2.78	17	1
1:A:20:SER:OG	1:B:2:ASN:OD1	0.46	2.34	4	1
1:C:2:ASN:N	1:C:2:ASN:OD1	0.46	2.46	12	3
1:B:4:GLU:OE2	1:B:4:GLU:N	0.46	2.44	14	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:C:15:LEU:HD12	1:C:15:LEU:N	0.46	2.25	5	1
1:C:2:ASN:ND2	1:C:2:ASN:C	0.46	2.74	6	3
1:A:2:ASN:OD1	1:C:20:SER:OG	0.46	2.34	4	1
1:A:2:ASN:ND2	1:A:2:ASN:C	0.46	2.74	6	3
1:A:4:GLU:OE2	1:A:4:GLU:N	0.45	2.44	14	2
1:B:2:ASN:ND2	1:B:2:ASN:C	0.45	2.75	17	3
1:B:15:LEU:N	1:B:15:LEU:CD1	0.45	2.80	5	1
1:B:20:SER:C	1:C:2:ASN:H	0.45	2.20	3	2
1:B:15:LEU:N	1:B:15:LEU:HD22	0.44	2.28	17	1
1:A:3:PRO:O	1:A:6:GLU:CD	0.44	2.61	20	1
1:B:15:LEU:O	1:B:18:SER:OG	0.44	2.34	17	3
1:A:3:PRO:O	1:A:6:GLU:OE1	0.44	2.35	12	2
1:B:10:ARG:NH2	1:B:14:LEU:HD11	0.44	2.28	19	2
1:C:15:LEU:N	1:C:15:LEU:HD22	0.44	2.28	17	1
1:C:15:LEU:O	1:C:18:SER:OG	0.44	2.36	5	4
1:A:2:ASN:H	1:C:20:SER:C	0.43	2.20	3	1
1:B:17:ASP:O	1:B:20:SER:OG	0.43	2.34	4	2
1:A:2:ASN:C	1:A:2:ASN:HD22	0.43	2.21	6	2
1:A:10:ARG:NH2	1:A:14:LEU:HD11	0.43	2.28	19	2
1:A:15:LEU:N	1:A:15:LEU:CD1	0.43	2.80	5	1
1:C:15:LEU:N	1:C:15:LEU:CD1	0.43	2.81	5	1
1:A:20:SER:OG	1:B:2:ASN:CG	0.43	2.61	14	1
1:A:15:LEU:O	1:A:18:SER:OG	0.43	2.35	17	2
1:C:3:PRO:O	1:C:6:GLU:CD	0.43	2.61	20	1
1:B:3:PRO:O	1:B:6:GLU:CD	0.43	2.61	20	1
1:C:10:ARG:NH2	1:C:14:LEU:HD11	0.43	2.27	19	2
1:C:3:PRO:O	1:C:6:GLU:OE1	0.43	2.36	12	2
1:A:18:SER:HB3	1:B:8:ILE:HG21	0.43	1.91	12	1
1:B:2:ASN:C	1:B:2:ASN:HD22	0.42	2.21	16	2
1:A:15:LEU:N	1:A:15:LEU:HD22	0.42	2.28	17	1
1:B:3:PRO:O	1:B:6:GLU:OE1	0.42	2.37	12	2
1:C:17:ASP:O	1:C:20:SER:OG	0.42	2.37	14	1
1:C:7:GLU:C	1:C:7:GLU:CD	0.41	2.88	6	1
1:A:7:GLU:C	1:A:7:GLU:CD	0.41	2.88	6	1
1:C:2:ASN:C	1:C:2:ASN:HD22	0.41	2.22	6	2
1:A:2:ASN:CG	1:C:20:SER:OG	0.41	2.62	14	1
1:A:8:ILE:HG21	1:C:18:SER:HB3	0.41	1.92	12	1
1:B:7:GLU:C	1:B:7:GLU:CD	0.41	2.88	6	1
1:A:20:SER:C	1:B:2:ASN:H	0.41	2.23	3	1
1:C:2:ASN:ND2	1:C:2:ASN:N	0.41	2.69	18	1
1:B:18:SER:HB3	1:C:8:ILE:HG21	0.41	1.91	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:7:GLU:CD	1:A:10:ARG:NH1	0.40	2.79	17	1
1:A:2:ASN:OD1	1:C:20:SER:O	0.40	2.39	3	2
1:B:2:ASN:N	1:B:2:ASN:HD22	0.40	2.14	17	1
1:B:20:SER:OG	1:C:2:ASN:CG	0.40	2.65	14	1
1:B:7:GLU:CD	1:B:10:ARG:NH1	0.40	2.80	20	1
1:A:2:ASN:N	1:A:2:ASN:HD22	0.40	2.14	17	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	18/20 (90%)	18±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
1	B	18/20 (90%)	18±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
1	C	18/20 (90%)	18±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
All	All	1080/1200 (90%)	1080 (100%)	0 (0%)	0 (0%)	100	100

There are no Ramachandran outliers.

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	19/19 (100%)	19±1 (98±3%)	0±1 (2±3%)	43	89
1	B	19/19 (100%)	19±0 (98±3%)	0±0 (2±3%)	46	90
1	C	19/19 (100%)	19±0 (98±3%)	0±0 (2±3%)	46	90
All	All	1140/1140 (100%)	1115 (98%)	25 (2%)	45	90

All 7 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	2	ASN	7
1	B	2	ASN	7
1	C	2	ASN	7
1	A	11	CYS	1
1	A	6	GLU	1
1	B	6	GLU	1
1	C	6	GLU	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 ⓘ

There are no oligosaccharides in this entry.

6.6 Ligand geometry ⓘ

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds for which Mogul statistics could be retrieved, the number of bonds that are observed in the model and the number of bonds that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length is the number of standard deviations the observed value is removed from the expected value. A bond length with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

Mol	Type	Chain	Res	Link	Bond lengths		
					Counts	RMSZ	#Z>2
2	ZBR	A	100	1	9,9,12	1.28±0.10	0±1 (3±8%)

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of angles that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond angle is the number of standard

deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

Mol	Type	Chain	Res	Link	Bond angles		
					Counts	RMSZ	#Z>2
2	ZBR	A	100	1	12,12,15	1.22±0.09	0±0 (0±2%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ZBR	A	100	1	-	-	0±0,1,1,1

All unique bond outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
2	A	100	ZBR	C6-C1	2.50	1.42	1.39	1	4
2	A	100	ZBR	C2-C3	2.20	1.42	1.39	1	2
2	A	100	ZBR	C4-C5	2.10	1.42	1.39	1	1

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	A	100	ZBR	C4-C3-C2	2.11	120.46	118.11	1	2

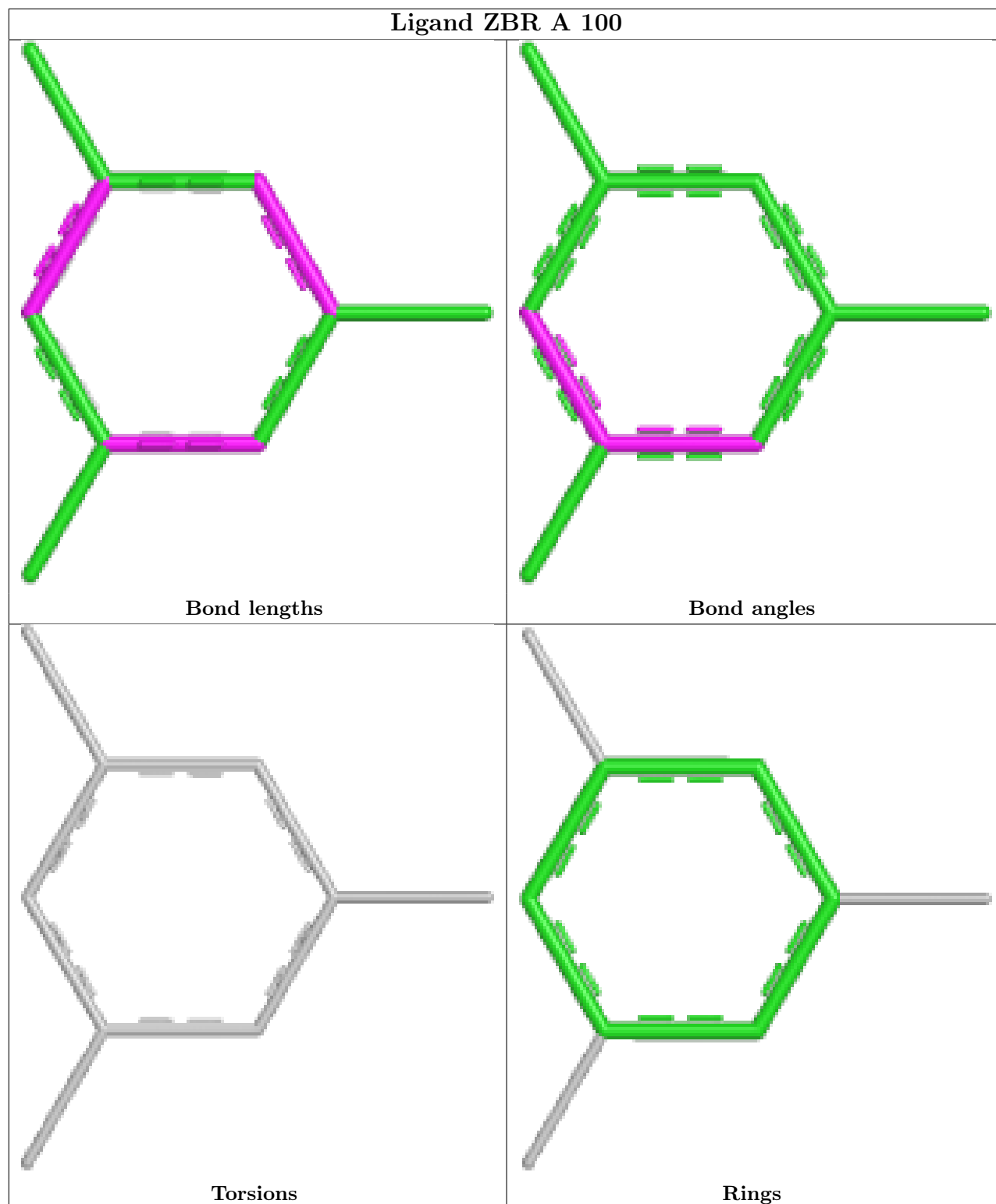
There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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 21% for the well-defined parts and 21% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *TBS_lCFV4QB.str*

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	168
Number of shifts mapped to atoms	168
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

No chemical shift referencing corrections were calculated (not enough data).

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 21%, i.e. 167 atoms were assigned a chemical shift out of a possible 783. 0 out of 6 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	58/294 (20%)	38/117 (32%)	20/120 (17%)	0/57 (0%)
Sidechain	109/489 (22%)	71/309 (23%)	38/159 (24%)	0/21 (0%)
Overall	167/783 (21%)	109/426 (26%)	58/279 (21%)	0/78 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 21%, i.e. 167 atoms were assigned a chemical shift out of a possible 783. 0 out of 6 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	58/294 (20%)	38/117 (32%)	20/120 (17%)	0/57 (0%)
Sidechain	109/489 (22%)	71/309 (23%)	38/159 (24%)	0/21 (0%)
Overall	167/783 (21%)	109/426 (26%)	58/279 (21%)	0/78 (0%)

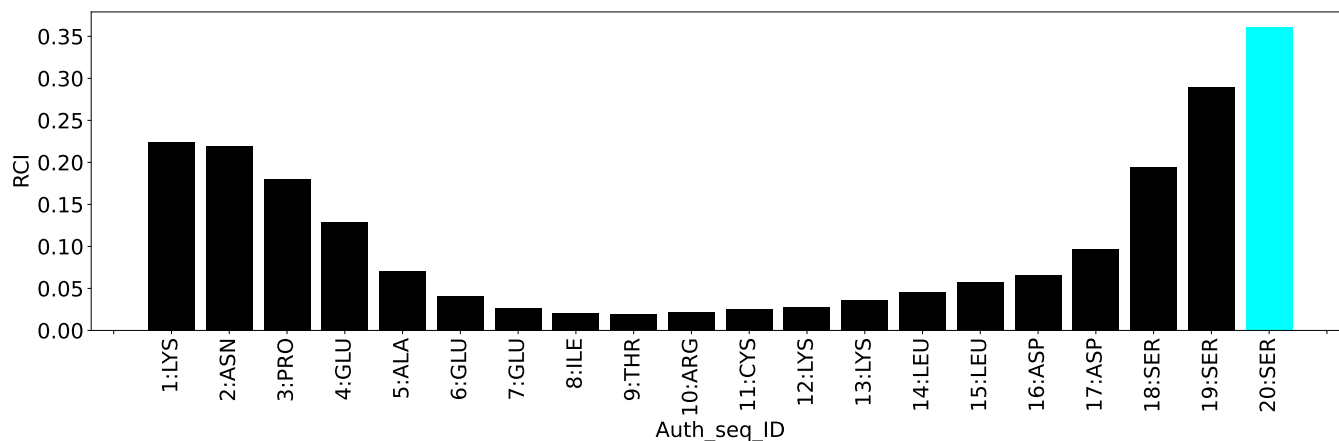
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis [i](#)

8.1 Conformationally restricting restraints [i](#)

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	372
Intra-residue ($ i-j =0$)	210
Sequential ($ i-j =1$)	51
Medium range ($ i-j >1$ and $ i-j <5$)	69
Long range ($ i-j \geq 5$)	18
Inter-chain	18
Hydrogen bond restraints	6
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	6.1
Number of long range restraints per residue ¹	0.3

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

8.2 Residual restraint violations [i](#)

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 [i](#)

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)	8.4	0.2
0.2-0.5 (Medium)	8.2	0.5
>0.5 (Large)	24.4	29.41

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

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

9 Distance violation analysis ⓘ

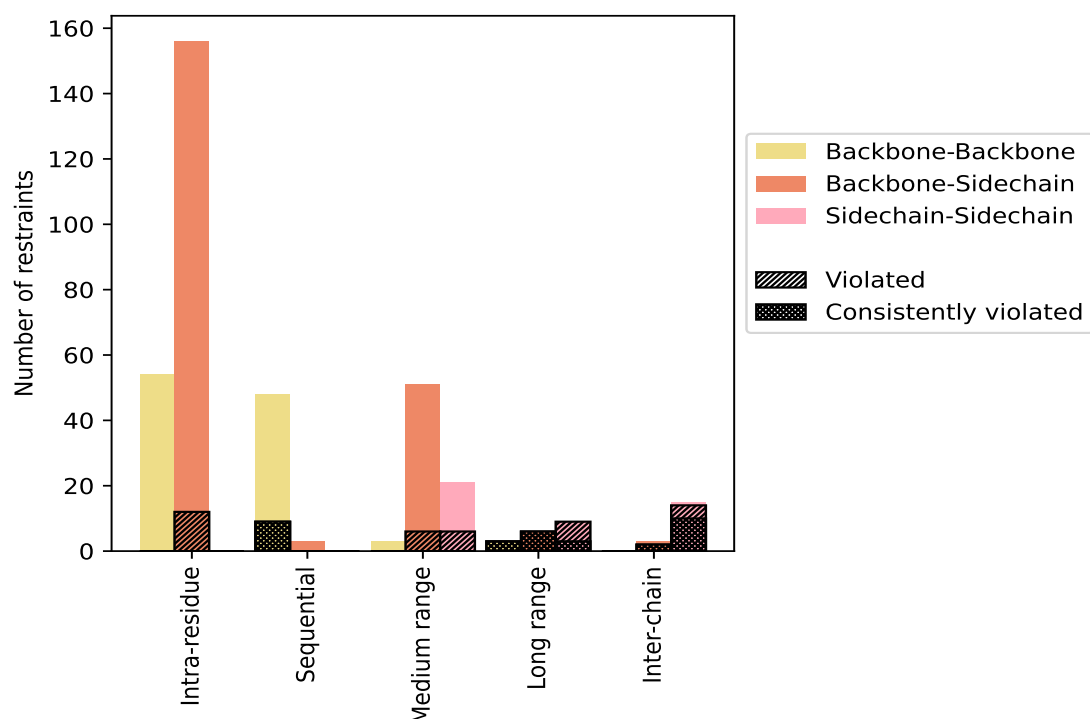
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	210	56.5	12	5.7	3.2	0	0.0	0.0
Backbone-Backbone	54	14.5	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	156	41.9	12	7.7	3.2	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	51	13.7	9	17.6	2.4	9	17.6	2.4
Backbone-Backbone	48	12.9	9	18.8	2.4	9	18.8	2.4
Backbone-Sidechain	3	0.8	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	69	18.5	9	13.0	2.4	0	0.0	0.0
Backbone-Backbone	3	0.8	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	51	13.7	6	11.8	1.6	0	0.0	0.0
Sidechain-Sidechain	15	4.0	3	20.0	0.8	0	0.0	0.0
Long range ($i-j \geq 5$)	18	4.8	18	100.0	4.8	12	66.7	3.2
Backbone-Backbone	3	0.8	3	100.0	0.8	3	100.0	0.8
Backbone-Sidechain	6	1.6	6	100.0	1.6	6	100.0	1.6
Sidechain-Sidechain	9	2.4	9	100.0	2.4	3	33.3	0.8
Inter-chain	18	4.8	16	88.9	4.3	12	66.7	3.2
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	3	0.8	2	66.7	0.5	2	66.7	0.5
Sidechain-Sidechain	15	4.0	14	93.3	3.8	10	66.7	2.7
Hydrogen bond	6	1.6	3	50.0	0.8	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	372	100.0	67	18.0	18.0	33	8.9	8.9
Backbone-Backbone	108	29.0	12	11.1	3.2	12	11.1	3.2
Backbone-Sidechain	219	58.9	26	11.9	7.0	8	3.7	2.2
Sidechain-Sidechain	45	12.1	29	64.4	7.8	13	28.9	3.5

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	3	9	6	12	15	45	2.98	27.18	6.57	1.1
2	0	9	6	12	13	40	3.5	29.21	7.42	1.26
3	0	9	3	15	14	41	3.34	28.78	7.24	1.1
4	0	9	3	18	13	43	3.1	27.46	6.77	0.64
5	0	9	0	12	15	36	3.85	29.41	7.78	1.69
6	0	9	6	18	14	47	2.9	27.81	6.6	0.58
7	0	9	3	18	12	42	3.42	27.94	6.91	1.44
8	0	9	3	15	14	41	3.32	28.62	7.2	0.95
9	0	9	3	12	14	38	3.59	28.97	7.51	1.32
10	0	9	3	12	13	37	3.61	27.25	7.12	1.36

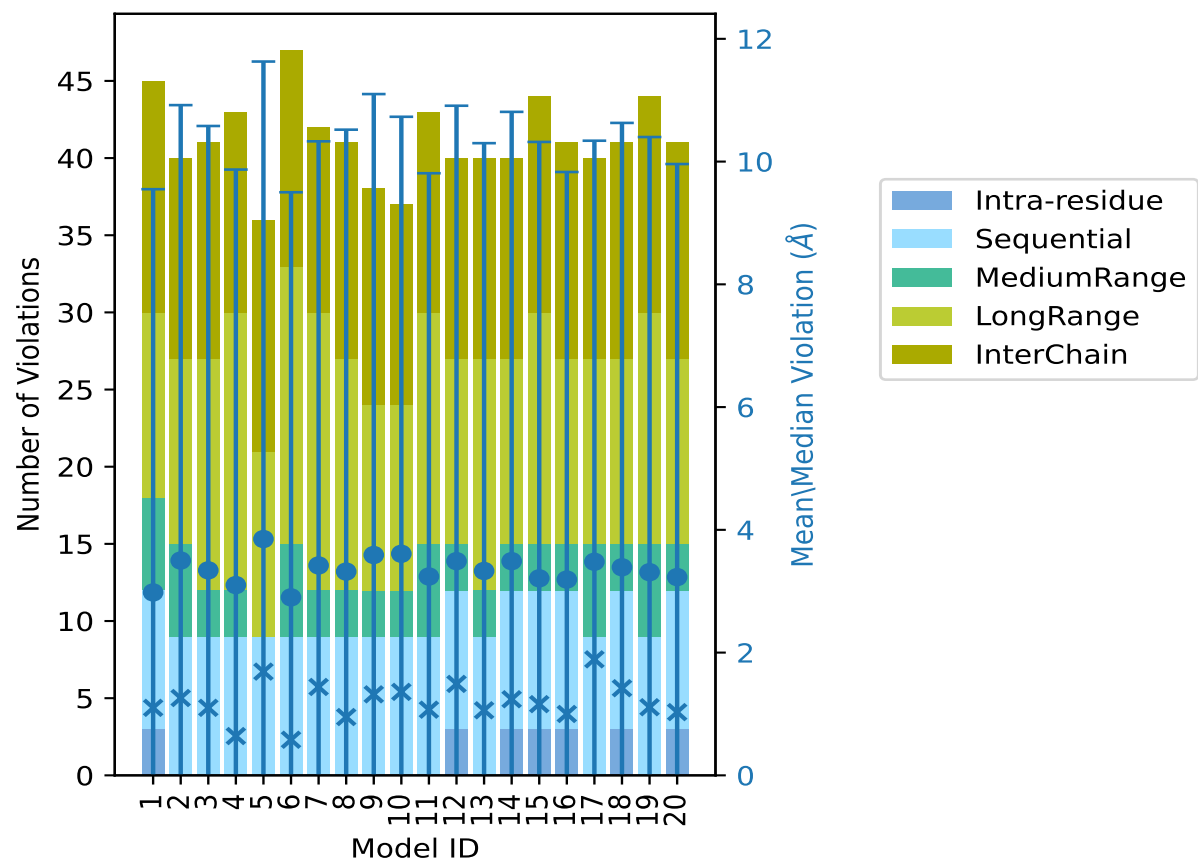
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	0	9	6	15	13	43	3.24	26.81	6.57	1.07
12	3	9	3	12	13	40	3.49	29.2	7.42	1.49
13	0	9	3	15	13	40	3.33	27.46	6.97	1.06
14	3	9	3	12	13	40	3.49	28.86	7.32	1.24
15	3	9	3	15	14	44	3.21	29.11	7.11	1.16
16	3	9	3	12	14	41	3.19	26.43	6.64	1.0
17	0	9	6	12	13	40	3.48	27.17	6.86	1.89
18	3	9	3	12	14	41	3.39	28.83	7.24	1.42
19	0	9	6	15	14	44	3.31	29.14	7.09	1.11
20	3	9	3	12	14	41	3.23	26.78	6.73	1.03

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

9.2.1 Bar graph : Distance Violation statistics for each model ⓘ



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 ⓘ

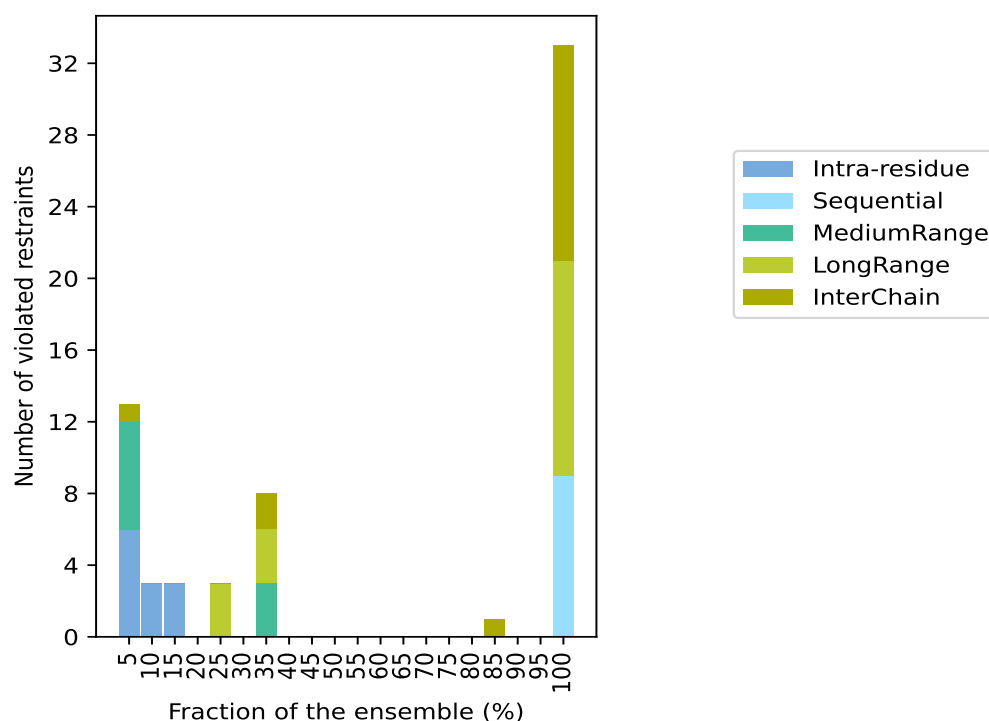
Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 302(IR:198, SQ:42, MR:60, LR:0, IC:2) restraints are not 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	%
6	0	6	0	1	13	1	5.0
3	0	0	0	0	3	2	10.0
3	0	0	0	0	3	3	15.0
0	0	0	0	0	0	4	20.0
0	0	0	3	0	3	5	25.0
0	0	0	0	0	0	6	30.0
0	0	3	3	2	8	7	35.0
0	0	0	0	0	0	8	40.0
0	0	0	0	0	0	9	45.0
0	0	0	0	0	0	10	50.0
0	0	0	0	0	0	11	55.0
0	0	0	0	0	0	12	60.0
0	0	0	0	0	0	13	65.0
0	0	0	0	0	0	14	70.0
0	0	0	0	0	0	15	75.0
0	0	0	0	0	0	16	80.0
0	0	0	0	1	1	17	85.0
0	0	0	0	0	0	18	90.0
0	0	0	0	0	0	19	95.0
0	9	0	12	12	33	20	100.0

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

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

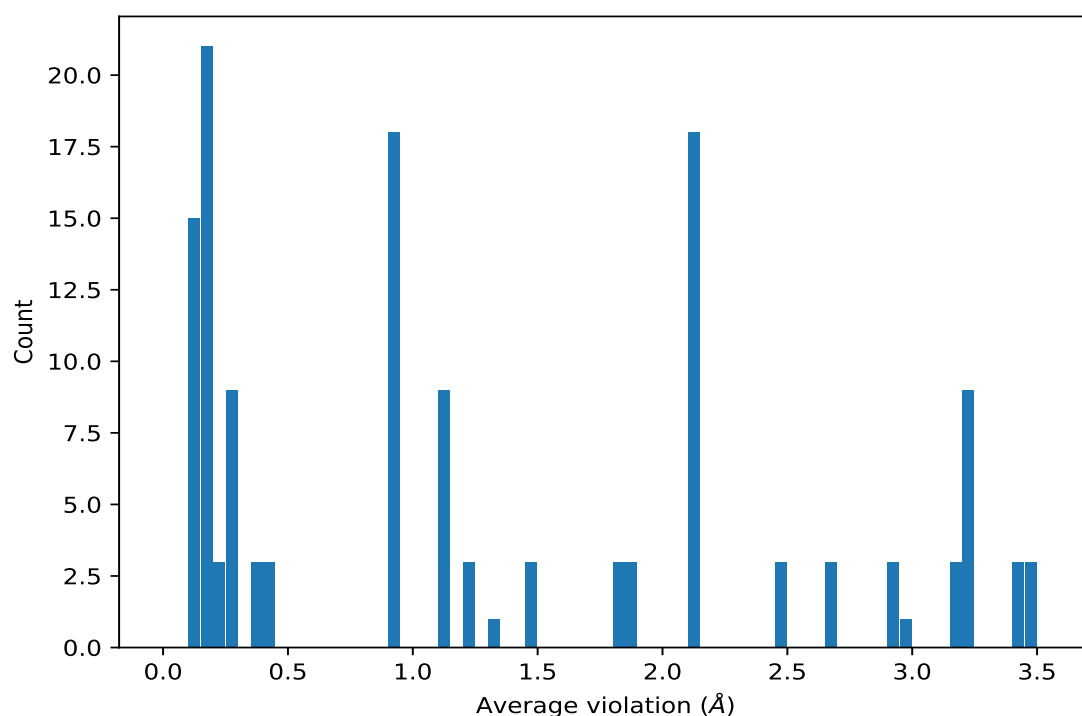
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	20	3.46	0.36	3.62
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	20	3.46	0.36	3.62
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	20	3.46	0.36	3.62
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	20	3.4	0.18	3.38
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	20	3.4	0.18	3.38
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	20	3.4	0.18	3.38
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	20	3.2	0.35	3.26
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	20	3.2	0.35	3.26
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	20	3.2	0.35	3.26
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	20	3.2	0.35	3.26
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	20	3.2	0.35	3.26
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	20	3.2	0.35	3.26
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	20	3.2	0.35	3.26
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	20	3.2	0.35	3.26
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	20	3.2	0.35	3.26
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	20	3.19	0.22	3.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	20	3.19	0.22	3.29
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	20	3.19	0.22	3.29
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	20	2.99	0.24	3.0
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	20	2.92	0.28	2.94
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	20	2.92	0.28	2.94
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	20	2.92	0.28	2.94
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	20	2.68	0.24	2.76
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	20	2.68	0.24	2.76
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	20	2.68	0.24	2.76
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	20	2.49	0.24	2.45
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	20	2.49	0.24	2.45
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	20	2.49	0.24	2.45
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	20	2.14	0.49	2.12
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	20	2.14	0.49	2.12
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	20	2.14	0.49	2.12
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	20	2.14	0.49	2.12
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	20	2.14	0.49	2.12
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	20	2.14	0.49	2.12
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	20	2.14	0.49	2.12
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	20	2.14	0.49	2.12
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	20	2.14	0.49	2.12
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	20	2.14	0.49	2.12
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	20	2.14	0.49	2.12
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	20	2.14	0.49	2.12
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	20	2.14	0.49	2.12
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	20	2.14	0.49	2.12
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	20	2.14	0.49	2.12
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	20	2.14	0.49	2.12
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	20	2.14	0.49	2.12
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	20	2.14	0.49	2.12
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	20	1.88	0.36	1.81
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	20	1.88	0.36	1.81
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	20	1.88	0.36	1.81
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	20	1.8	0.21	1.84
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	20	1.8	0.21	1.84
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	20	1.8	0.21	1.84
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	20	1.47	0.29	1.5
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	20	1.47	0.29	1.5
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	20	1.47	0.29	1.5
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	20	1.34	0.27	1.33
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	20	1.21	0.46	1.1
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	20	1.21	0.46	1.1

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	20	1.21	0.46	1.1
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	20	1.14	0.7	0.99
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	20	1.14	0.7	0.99
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	20	1.14	0.7	0.99
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	20	1.14	0.7	0.99
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	20	1.14	0.7	0.99
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	20	1.14	0.7	0.99
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	20	1.14	0.7	0.99
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	20	1.14	0.7	0.99
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	20	1.14	0.7	0.99
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	20	0.44	0.03	0.44
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	20	0.44	0.03	0.44
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	20	0.44	0.03	0.44
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	20	0.35	0.01	0.35
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	20	0.35	0.01	0.35
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	20	0.35	0.01	0.35
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	20	0.14	0.01	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	20	0.14	0.01	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	20	0.14	0.01	0.14
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	17	0.22	0.09	0.19
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	17	0.22	0.09	0.19
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	17	0.22	0.09	0.19
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	16	0.16	0.04	0.16
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	16	0.16	0.04	0.16
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	16	0.16	0.04	0.16
(1,133)	1:14:C:LEU:HD21	1:10:C:ARG:HE	7	0.25	0.08	0.23
(1,133)	1:14:C:LEU:HD22	1:10:C:ARG:HE	7	0.25	0.08	0.23
(1,133)	1:14:C:LEU:HD23	1:10:C:ARG:HE	7	0.25	0.08	0.23
(1,134)	1:14:C:LEU:HD21	1:10:C:ARG:HE	7	0.25	0.08	0.23
(1,134)	1:14:C:LEU:HD22	1:10:C:ARG:HE	7	0.25	0.08	0.23
(1,134)	1:14:C:LEU:HD23	1:10:C:ARG:HE	7	0.25	0.08	0.23
(1,135)	1:14:C:LEU:HD21	1:10:C:ARG:HE	7	0.25	0.08	0.23
(1,135)	1:14:C:LEU:HD22	1:10:C:ARG:HE	7	0.25	0.08	0.23
(1,135)	1:14:C:LEU:HD23	1:10:C:ARG:HE	7	0.25	0.08	0.23
(1,16)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	7	0.16	0.05	0.15
(1,16)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	7	0.16	0.05	0.15
(1,16)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	7	0.16	0.05	0.15
(1,17)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	7	0.16	0.05	0.15
(1,17)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	7	0.16	0.05	0.15
(1,17)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	7	0.16	0.05	0.15
(1,18)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	7	0.16	0.05	0.15
(1,18)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	7	0.16	0.05	0.15

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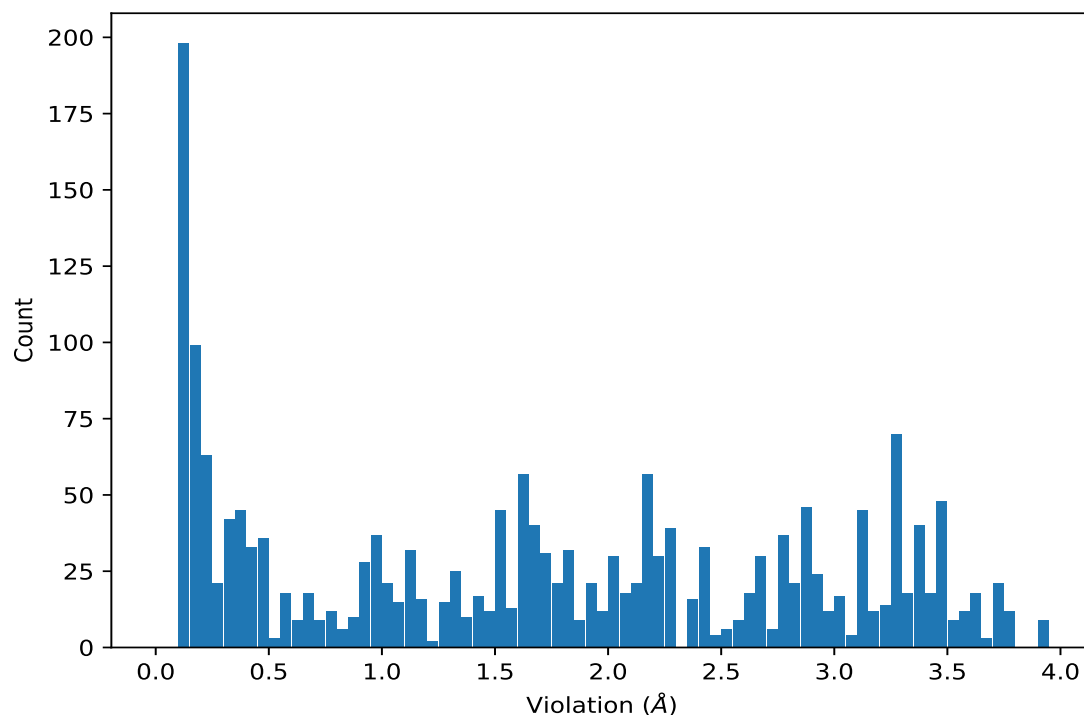
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,18)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	7	0.16	0.05	0.15
(1,12)	1:15:C:LEU:HD21	2:100:A:ZBR:H4	7	0.15	0.05	0.13
(1,12)	1:15:C:LEU:HD22	2:100:A:ZBR:H4	7	0.15	0.05	0.13
(1,12)	1:15:C:LEU:HD23	2:100:A:ZBR:H4	7	0.15	0.05	0.13
(1,15)	1:8:C:ILE:HD11	2:100:A:ZBR:H6	7	0.14	0.02	0.14
(1,15)	1:8:C:ILE:HD12	2:100:A:ZBR:H6	7	0.14	0.02	0.14
(1,15)	1:8:C:ILE:HD13	2:100:A:ZBR:H6	7	0.14	0.02	0.14
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	5	0.9	0.52	0.97
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	5	0.9	0.52	0.97
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	5	0.9	0.52	0.97
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	5	0.9	0.52	0.97
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	5	0.9	0.52	0.97
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	5	0.9	0.52	0.97
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	5	0.9	0.52	0.97
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	5	0.9	0.52	0.97
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	5	0.9	0.52	0.97
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	5	0.9	0.52	0.97
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	5	0.9	0.52	0.97
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	5	0.9	0.52	0.97
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	5	0.9	0.52	0.97
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	5	0.9	0.52	0.97
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	5	0.9	0.52	0.97
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	5	0.9	0.52	0.97
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	5	0.9	0.52	0.97
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	5	0.9	0.52	0.97
(1,220)	1:6:C:GLU:H	1:6:C:GLU:HG2	3	0.17	0.05	0.16
(1,220)	1:6:C:GLU:H	1:6:C:GLU:HG3	3	0.17	0.05	0.16
(1,221)	1:6:C:GLU:H	1:6:C:GLU:HG2	3	0.17	0.05	0.16
(1,221)	1:6:C:GLU:H	1:6:C:GLU:HG3	3	0.17	0.05	0.16
(1,222)	1:6:C:GLU:H	1:6:C:GLU:HG2	3	0.17	0.05	0.16
(1,222)	1:6:C:GLU:H	1:6:C:GLU:HG3	3	0.17	0.05	0.16
(1,247)	1:8:C:ILE:H	1:8:C:ILE:HD11	2	0.11	0.0	0.11
(1,247)	1:8:C:ILE:H	1:8:C:ILE:HD12	2	0.11	0.0	0.11
(1,247)	1:8:C:ILE:H	1:8:C:ILE:HD13	2	0.11	0.0	0.11
(1,248)	1:8:C:ILE:H	1:8:C:ILE:HD11	2	0.11	0.0	0.11
(1,248)	1:8:C:ILE:H	1:8:C:ILE:HD12	2	0.11	0.0	0.11
(1,248)	1:8:C:ILE:H	1:8:C:ILE:HD13	2	0.11	0.0	0.11
(1,249)	1:8:C:ILE:H	1:8:C:ILE:HD11	2	0.11	0.0	0.11
(1,249)	1:8:C:ILE:H	1:8:C:ILE:HD12	2	0.11	0.0	0.11
(1,249)	1:8:C:ILE:H	1:8:C:ILE:HD13	2	0.11	0.0	0.11

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	17	3.93
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	17	3.93
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	17	3.93
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	17	3.93
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	17	3.93
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	17	3.93
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	17	3.93
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	17	3.93
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	17	3.93
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	8	3.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	8	3.8
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	8	3.8
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	11	3.79
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	11	3.79
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	11	3.79
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	16	3.79
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	16	3.79
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	16	3.79
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	5	3.75
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	5	3.75
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	5	3.75
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	12	3.74
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	12	3.74
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	12	3.74
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	12	3.74
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	12	3.74
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	12	3.74
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	12	3.74
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	12	3.74
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	12	3.74
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	20	3.74
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	20	3.74
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	20	3.74
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	1	3.73
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	1	3.73
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	1	3.73
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	6	3.72
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	6	3.72
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	6	3.72
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	14	3.71
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	14	3.71
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	14	3.71
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	2	3.69
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	2	3.69
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	2	3.69
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	6	3.65
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	6	3.65
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	6	3.65
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	19	3.64
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	19	3.64
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	19	3.64
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	9	3.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	9	3.64
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	9	3.64
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	17	3.63
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	17	3.63
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	17	3.63
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	18	3.61
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	18	3.61
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	18	3.61
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	18	3.6
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	18	3.6
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	18	3.6
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	1	3.58
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	1	3.58
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	1	3.58
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	10	3.57
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	10	3.57
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	10	3.57
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	10	3.57
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	10	3.57
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	10	3.57
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	10	3.57
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	10	3.57
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	10	3.57
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	4	3.53
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	4	3.53
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	4	3.53
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	9	3.51
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	9	3.51
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	9	3.51
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	20	3.51
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	20	3.51
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	20	3.51
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	7	3.48
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	7	3.48
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	7	3.48
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	7	3.48
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	7	3.48
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	7	3.48
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	7	3.48
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	7	3.48
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	7	3.48
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	7	3.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	7	3.48
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	7	3.48
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	7	3.48
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	7	3.48
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	7	3.48
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	7	3.48
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	7	3.48
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	7	3.48
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	11	3.48
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	11	3.48
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	11	3.48
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	11	3.48
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	11	3.48
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	11	3.48
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	11	3.48
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	11	3.48
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	11	3.48
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	15	3.47
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	15	3.47
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	15	3.47
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	15	3.47
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	15	3.47
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	15	3.47
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	15	3.47
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	15	3.47
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	15	3.47
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	5	3.47
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	5	3.47
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	5	3.47
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	2	3.46
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	2	3.46
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	2	3.46
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	2	3.46
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	2	3.46
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	2	3.46
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	2	3.46
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	2	3.46
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	2	3.46
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	7	3.43
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	7	3.43
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	7	3.43
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	5	3.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	5	3.43
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	5	3.43
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	13	3.43
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	13	3.43
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	13	3.43
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	7	3.42
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	7	3.42
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	7	3.42
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	7	3.42
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	7	3.42
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	7	3.42
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	7	3.42
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	7	3.42
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	7	3.42
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	14	3.4
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	14	3.4
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	14	3.4
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	10	3.4
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	10	3.4
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	10	3.4
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	10	3.39
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	10	3.39
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	10	3.39
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	20	3.39
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	20	3.39
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	20	3.39
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	3	3.38
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	3	3.38
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	3	3.38
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	3	3.38
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	3	3.38
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	3	3.38
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	3	3.38
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	3	3.38
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	3	3.38
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	5	3.38
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	16	3.38
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	16	3.38
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	16	3.38
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	2	3.38
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	2	3.38
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	2	3.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	3	3.37
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	3	3.37
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	3	3.37
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	15	3.36
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	15	3.36
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	15	3.36
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	10	3.36
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	10	3.36
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	10	3.36
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	15	3.36
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	15	3.36
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	15	3.36
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	19	3.34
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	19	3.34
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	19	3.34
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	19	3.34
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	19	3.34
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	19	3.34
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	19	3.34
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	19	3.34
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	19	3.34
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	14	3.34
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	14	3.34
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	14	3.34
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	15	3.33
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	15	3.33
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	15	3.33
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	4	3.31
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	4	3.31
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	4	3.31
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	3	3.3
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	3	3.3
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	3	3.3
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	11	3.3
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	11	3.3
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	11	3.3
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	19	3.3
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	19	3.3
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	19	3.3
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	8	3.29
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	8	3.29
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	8	3.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	12	3.29
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	12	3.29
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	12	3.29
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	19	3.28
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	19	3.28
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	19	3.28
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	4	3.28
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	4	3.28
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	4	3.28
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	13	3.28
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	13	3.28
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	13	3.28
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	13	3.27
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	13	3.27
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	13	3.27
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	13	3.27
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	13	3.27
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	13	3.27
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	13	3.27
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	13	3.27
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	13	3.27
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	15	3.27
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	7	3.27
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	7	3.27
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	7	3.27
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	3	3.27
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	3	3.27
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	3	3.27
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	14	3.26
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	14	3.26
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	14	3.26
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	14	3.26
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	14	3.26
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	14	3.26
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	14	3.26
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	14	3.26
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	14	3.26
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	1	3.25
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	1	3.25
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	1	3.25
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	8	3.25
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	8	3.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	8	3.25
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	1	3.25
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	1	3.25
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	1	3.25
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	8	3.25
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	8	3.25
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	8	3.25
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	1	3.25
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	1	3.25
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	1	3.25
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	8	3.25
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	8	3.25
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	8	3.25
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	13	3.25
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	13	3.25
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	13	3.25
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	20	3.23
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	12	3.23
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	12	3.23
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	12	3.23
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	16	3.23
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	16	3.23
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	16	3.23
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	10	3.22
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	8	3.21
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	8	3.21
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	8	3.21
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	12	3.2
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	12	3.2
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	12	3.2
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	16	3.19
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	16	3.19
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	16	3.19
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	16	3.19
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	16	3.19
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	16	3.19
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	16	3.19
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	16	3.19
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	16	3.19
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	2	3.18
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	2	3.18
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	2	3.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	3	3.15
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	4	3.14
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	4	3.14
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	4	3.14
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	9	3.14
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	9	3.14
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	9	3.14
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	20	3.14
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	20	3.14
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	20	3.14
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	4	3.14
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	4	3.14
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	4	3.14
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	9	3.14
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	9	3.14
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	9	3.14
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	20	3.14
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	20	3.14
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	20	3.14
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	4	3.14
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	4	3.14
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	4	3.14
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	9	3.14
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	9	3.14
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	9	3.14
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	20	3.14
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	20	3.14
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	20	3.14
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	17	3.14
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	17	3.14
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	17	3.14
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	2	3.14
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	2	3.14
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	2	3.14
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	4	3.13
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	7	3.13
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	7	3.13
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	7	3.13
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	13	3.11
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	1	3.1
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	1	3.1
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	1	3.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,5)	1:14:C:LEU:HD21	2:100:A:ZBR:H6	11	3.1
(1,5)	1:14:C:LEU:HD22	2:100:A:ZBR:H6	11	3.1
(1,5)	1:14:C:LEU:HD23	2:100:A:ZBR:H6	11	3.1
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	14	3.08
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	11	3.08
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	11	3.08
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	11	3.08
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	19	3.04
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	18	3.02
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	18	3.02
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	18	3.02
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	18	3.02
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	18	3.02
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	18	3.02
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	18	3.02
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	18	3.02
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	18	3.02
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	17	3.02
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	17	3.01
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	17	3.01
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	17	3.01
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	14	3.01
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	14	3.01
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	14	3.01
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	12	2.98
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	12	2.98
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	12	2.98
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	20	2.98
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	20	2.98
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	20	2.98
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	2	2.97
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	16	2.97
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	18	2.97
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	18	2.95
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	18	2.95
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	18	2.95
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	18	2.94
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	18	2.94
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	18	2.94
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	18	2.94
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	18	2.94
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	18	2.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	4	2.94
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	4	2.94
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	4	2.94
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	5	2.94
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	5	2.94
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	5	2.94
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	7	2.93
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	12	2.93
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	12	2.93
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	12	2.93
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	6	2.93
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	6	2.93
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	6	2.93
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	8	2.93
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	8	2.93
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	8	2.93
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	12	2.92
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	11	2.91
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	8	2.9
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	19	2.89
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	19	2.89
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	19	2.89
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	19	2.88
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	19	2.88
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	19	2.88
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	9	2.88
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	9	2.88
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	9	2.88
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	10	2.87
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	10	2.87
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	10	2.87
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	6	2.86
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	6	2.86
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	6	2.86
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	6	2.86
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	6	2.86
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	6	2.86
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	6	2.86
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	6	2.86
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	6	2.86
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	2	2.86
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	2	2.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	2	2.86
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	9	2.86
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	9	2.86
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	9	2.86
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	11	2.85
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	11	2.85
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	11	2.85
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	11	2.85
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	11	2.85
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	11	2.85
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	11	2.85
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	11	2.85
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	11	2.85
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	11	2.85
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	11	2.85
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	11	2.85
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	11	2.85
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	11	2.85
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	11	2.85
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	11	2.85
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	11	2.85
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	11	2.85
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	17	2.84
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	17	2.84
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	17	2.84
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	13	2.84
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	13	2.84
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	13	2.84
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	16	2.84
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	16	2.84
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	16	2.84
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	15	2.83
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	15	2.83
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	15	2.83
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	6	2.83
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	6	2.83
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	6	2.83
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	15	2.82
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	15	2.82
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	15	2.82
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	18	2.82
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	18	2.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	18	2.82
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	6	2.8
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	14	2.8
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	14	2.8
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	14	2.8
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	19	2.79
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	19	2.79
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	19	2.79
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	19	2.79
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	19	2.79
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	19	2.79
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	19	2.79
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	19	2.79
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	19	2.79
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	19	2.79
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	19	2.79
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	19	2.79
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	19	2.79
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	19	2.79
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	19	2.79
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	19	2.79
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	19	2.79
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	19	2.79
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	3	2.79
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	3	2.79
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	3	2.79
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	1	2.79
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	1	2.79
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	1	2.79
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	1	2.77
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	1	2.77
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	1	2.77
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	3	2.76
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	3	2.76
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	3	2.76
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	11	2.75
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	11	2.75
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	11	2.75
(1,4)	1:14:C:LEU:HD21	2:100:A:ZBR:H2	9	2.74
(1,4)	1:14:C:LEU:HD22	2:100:A:ZBR:H2	9	2.74
(1,4)	1:14:C:LEU:HD23	2:100:A:ZBR:H2	9	2.74
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	9	2.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	9	2.73
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	9	2.73
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	6	2.69
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	6	2.69
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	6	2.69
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	6	2.69
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	6	2.69
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	6	2.69
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	6	2.69
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	6	2.69
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	6	2.69
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	6	2.69
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	6	2.69
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	6	2.69
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	6	2.69
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	6	2.69
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	6	2.69
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	6	2.69
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	6	2.69
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	6	2.69
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	10	2.67
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	10	2.67
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	10	2.67
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	8	2.66
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	8	2.66
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	8	2.66
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	16	2.66
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	16	2.66
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	16	2.66
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	6	2.66
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	6	2.66
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	6	2.66
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	20	2.64
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	20	2.64
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	20	2.64
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	7	2.64
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	7	2.64
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	7	2.64
(1,14)	1:8:C:ILE:HD11	2:100:A:ZBR:H2	10	2.63
(1,14)	1:8:C:ILE:HD12	2:100:A:ZBR:H2	10	2.63
(1,14)	1:8:C:ILE:HD13	2:100:A:ZBR:H2	10	2.63
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	15	2.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	15	2.63
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	15	2.63
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	3	2.61
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	3	2.61
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	3	2.61
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	4	2.6
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	4	2.6
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	4	2.6
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	5	2.57
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	5	2.57
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	5	2.57
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	5	2.57
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	5	2.57
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	5	2.57
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	5	2.57
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	5	2.57
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	5	2.57
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	6	2.52
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	6	2.52
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	6	2.52
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	20	2.51
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	20	2.51
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	20	2.51
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	9	2.46
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	14	2.46
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	14	2.46
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	14	2.46
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	8	2.44
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	8	2.44
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	8	2.44
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	13	2.44
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	13	2.44
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	13	2.44
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	12	2.42
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	12	2.42
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	12	2.42
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	1	2.42
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	1	2.42
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	1	2.42
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	4	2.41
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	4	2.41
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	4	2.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	4	2.41
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	4	2.41
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	4	2.41
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	4	2.41
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	4	2.41
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	4	2.41
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	4	2.41
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	4	2.41
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	4	2.41
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	4	2.41
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	4	2.41
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	4	2.41
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	4	2.41
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	4	2.41
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	4	2.41
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	7	2.41
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	7	2.41
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	7	2.41
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	11	2.4
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	11	2.4
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	11	2.4
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	13	2.38
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	13	2.38
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	13	2.38
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	16	2.38
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	16	2.38
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	16	2.38
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	5	2.37
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	5	2.37
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	5	2.37
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	2	2.36
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	2	2.36
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	2	2.36
(1,34)	1:11:C:CYS:HA	2:100:A:ZBR:H2	1	2.35
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	19	2.3
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	19	2.3
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	19	2.3
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	17	2.29
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	17	2.29
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	17	2.29
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	2	2.28
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	2	2.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	2	2.28
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	5	2.27
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	5	2.27
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	5	2.27
(1,1)	1:14:C:LEU:HD11	2:100:A:ZBR:H2	17	2.26
(1,1)	1:14:C:LEU:HD12	2:100:A:ZBR:H2	17	2.26
(1,1)	1:14:C:LEU:HD13	2:100:A:ZBR:H2	17	2.26
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	20	2.25
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	20	2.25
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	20	2.25
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	20	2.25
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	20	2.25
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	20	2.25
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	20	2.25
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	20	2.25
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	20	2.25
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	20	2.25
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	20	2.25
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	20	2.25
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	20	2.25
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	20	2.25
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	20	2.25
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	20	2.25
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	20	2.25
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	20	2.25
(1,11)	1:15:C:LEU:HD21	2:100:A:ZBR:H6	4	2.25
(1,11)	1:15:C:LEU:HD22	2:100:A:ZBR:H6	4	2.25
(1,11)	1:15:C:LEU:HD23	2:100:A:ZBR:H6	4	2.25
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	7	2.25
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	7	2.25
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	7	2.25
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	13	2.23
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	13	2.23
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	13	2.23
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	13	2.23
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	13	2.23
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	13	2.23
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	13	2.23
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	13	2.23
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	13	2.23
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	13	2.23
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	13	2.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	13	2.23
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	13	2.23
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	13	2.23
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	13	2.23
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	13	2.23
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	13	2.23
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	13	2.23
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	8	2.22
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	8	2.22
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	8	2.22
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	11	2.21
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	11	2.21
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	11	2.21
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	14	2.2
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	14	2.2
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	14	2.2
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	17	2.2
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	17	2.2
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	17	2.2
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	18	2.18
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	18	2.18
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	18	2.18
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	18	2.18
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	18	2.18
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	18	2.18
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	18	2.18
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	18	2.18
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	18	2.18
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	18	2.18
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	18	2.18
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	18	2.18
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	18	2.18
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	18	2.18
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	18	2.18
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	18	2.18
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	18	2.18
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	18	2.18
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	16	2.18
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	16	2.18
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	16	2.18
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	16	2.17
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	16	2.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	16	2.17
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	16	2.17
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	16	2.17
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	16	2.17
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	16	2.17
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	16	2.17
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	16	2.17
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	16	2.17
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	16	2.17
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	16	2.17
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	16	2.17
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	16	2.17
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	16	2.17
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	16	2.17
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	16	2.17
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	16	2.17
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	15	2.16
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	15	2.16
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	15	2.16
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	15	2.16
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	15	2.16
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	15	2.16
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	15	2.16
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	15	2.16
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	15	2.16
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	15	2.16
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	15	2.16
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	15	2.16
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	15	2.16
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	15	2.16
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	15	2.16
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	15	2.16
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	15	2.16
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	15	2.16
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	20	2.14
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	20	2.14
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	20	2.14
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD21	17	2.12
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD22	17	2.12
(1,57)	1:8:C:ILE:HA	1:15:C:LEU:HD23	17	2.12
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD21	17	2.12
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD22	17	2.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,56)	1:8:C:ILE:HA	1:15:C:LEU:HD23	17	2.12
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD21	17	2.12
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD22	17	2.12
(1,55)	1:8:C:ILE:HA	1:15:C:LEU:HD23	17	2.12
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	5	2.11
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	5	2.11
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	5	2.11
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	19	2.1
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	19	2.1
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	19	2.1
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	17	2.1
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	17	2.1
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	17	2.1
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	14	2.09
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	14	2.09
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	14	2.09
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	14	2.09
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	14	2.09
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	14	2.09
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	14	2.09
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	14	2.09
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	14	2.09
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	14	2.09
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	14	2.09
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	14	2.09
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	14	2.09
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	14	2.09
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	14	2.09
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	14	2.09
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	14	2.09
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	14	2.09
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	17	2.05
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	17	2.05
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	17	2.05
(1,2)	1:14:C:LEU:HD11	2:100:A:ZBR:H6	17	2.04
(1,2)	1:14:C:LEU:HD12	2:100:A:ZBR:H6	17	2.04
(1,2)	1:14:C:LEU:HD13	2:100:A:ZBR:H6	17	2.04
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	18	2.03
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	18	2.03
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	18	2.03
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	1	2.0
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	1	2.0

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	1	2.0
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	1	2.0
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	1	2.0
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	1	2.0
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	1	2.0
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	1	2.0
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	1	2.0
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	1	2.0
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	1	2.0
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	1	2.0
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	1	2.0
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	1	2.0
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	1	2.0
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	1	2.0
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	1	2.0
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	1	2.0
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	14	2.0
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	14	2.0
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	14	2.0
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	2	1.99
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	2	1.99
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	2	1.99
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	3	1.99
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	3	1.99
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	3	1.99
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	11	1.96
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	11	1.96
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	11	1.96
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	19	1.96
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	19	1.96
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	19	1.96
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	5	1.95
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	5	1.95
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	5	1.95
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	5	1.95
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	5	1.95
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	5	1.95
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	5	1.95
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	5	1.95
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	5	1.95
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	5	1.95
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	5	1.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	5	1.95
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	5	1.95
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	5	1.95
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	5	1.95
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	5	1.95
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	5	1.95
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	5	1.95
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	15	1.92
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	15	1.92
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	15	1.92
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	10	1.89
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	10	1.89
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	10	1.89
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	8	1.86
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	8	1.86
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	8	1.86
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	7	1.85
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	7	1.85
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	7	1.85
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	18	1.82
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	20	1.82
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	20	1.82
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	20	1.82
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	18	1.82
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	18	1.82
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	18	1.82
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	9	1.81
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	9	1.81
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	9	1.81
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	9	1.81
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	9	1.81
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	9	1.81
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	9	1.81
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	9	1.81
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	9	1.81
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	9	1.81
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	9	1.81
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	9	1.81
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	9	1.81
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	9	1.81
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	9	1.81
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	9	1.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	9	1.81
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	9	1.81
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	6	1.81
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	12	1.8
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	12	1.8
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	12	1.8
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	16	1.8
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	16	1.8
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	16	1.8
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	18	1.77
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	18	1.77
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	18	1.77
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	7	1.76
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	7	1.76
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	7	1.76
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	7	1.76
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	7	1.76
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	7	1.76
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	7	1.76
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	7	1.76
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	7	1.76
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	7	1.76
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	7	1.76
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	7	1.76
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	7	1.76
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	7	1.76
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	7	1.76
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	7	1.76
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	7	1.76
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	7	1.76
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	17	1.74
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	17	1.74
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	17	1.74
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	17	1.74
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	17	1.74
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	17	1.74
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	17	1.74
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	17	1.74
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	17	1.74
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	17	1.74
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	17	1.74
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	17	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	17	1.74
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	17	1.74
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	17	1.74
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	17	1.74
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	17	1.74
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	17	1.74
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	5	1.74
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	5	1.74
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	5	1.74
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	9	1.73
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	4	1.72
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	4	1.72
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	4	1.72
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	13	1.72
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	13	1.72
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	13	1.72
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	14	1.71
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	14	1.71
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	14	1.71
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	1	1.68
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	19	1.68
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	19	1.68
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	19	1.68
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	2	1.67
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	2	1.67
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	2	1.67
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	2	1.67
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	2	1.67
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	2	1.67
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	10	1.67
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	10	1.67
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	10	1.67
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	10	1.67
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	10	1.67
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	10	1.67
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	2	1.67
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	2	1.67
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	2	1.67
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	2	1.67
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	2	1.67
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	2	1.67
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	10	1.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	10	1.67
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	10	1.67
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	10	1.67
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	10	1.67
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	10	1.67
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	2	1.67
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	2	1.67
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	2	1.67
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	2	1.67
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	2	1.67
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	2	1.67
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	10	1.67
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	10	1.67
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	10	1.67
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	10	1.67
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	10	1.67
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	10	1.67
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	5	1.64
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	5	1.64
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	5	1.64
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	5	1.64
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	5	1.64
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	5	1.64
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	5	1.64
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	5	1.64
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	5	1.64
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	6	1.63
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	6	1.63
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	6	1.63
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	1	1.63
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	1	1.63
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	1	1.63
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	1	1.63
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	1	1.63
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	1	1.63
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	3	1.62
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	3	1.62
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	3	1.62
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	3	1.62
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	3	1.62
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	3	1.62
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	8	1.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	8	1.62
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	8	1.62
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	8	1.62
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	8	1.62
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	8	1.62
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	3	1.62
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	3	1.62
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	3	1.62
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	3	1.62
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	3	1.62
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	3	1.62
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	8	1.62
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	8	1.62
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	8	1.62
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	8	1.62
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	8	1.62
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	8	1.62
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	3	1.62
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	3	1.62
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	3	1.62
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	3	1.62
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	3	1.62
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	3	1.62
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	8	1.62
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	8	1.62
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	8	1.62
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	8	1.62
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	8	1.62
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	8	1.62
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	3	1.62
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	3	1.62
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	3	1.62
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	5	1.56
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	4	1.56
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	4	1.56
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	4	1.56
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	8	1.56
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	8	1.56
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	8	1.56
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	13	1.55
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	13	1.55
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	13	1.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	20	1.55
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	20	1.55
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	20	1.55
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	1	1.53
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	1	1.53
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	1	1.53
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	15	1.53
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	15	1.53
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	15	1.53
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	7	1.53
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	7	1.53
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	7	1.53
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	16	1.53
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	16	1.53
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	16	1.53
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	12	1.52
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	12	1.52
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	12	1.52
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	4	1.52
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	4	1.52
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	4	1.52
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	12	1.51
(1,63)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	12	1.51
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	12	1.51
(1,63)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	12	1.51
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	12	1.51
(1,63)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	12	1.51
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	12	1.51
(1,62)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	12	1.51
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	12	1.51
(1,62)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	12	1.51
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	12	1.51
(1,62)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	12	1.51
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG2	12	1.51
(1,61)	1:14:C:LEU:HD21	1:7:C:GLU:HG3	12	1.51
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG2	12	1.51
(1,61)	1:14:C:LEU:HD22	1:7:C:GLU:HG3	12	1.51
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG2	12	1.51
(1,61)	1:14:C:LEU:HD23	1:7:C:GLU:HG3	12	1.51
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	11	1.51
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	11	1.51
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	11	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	2	1.5
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	2	1.5
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	2	1.5
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	15	1.5
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	15	1.5
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	15	1.5
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	12	1.49
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	12	1.49
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	12	1.49
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	12	1.49
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	12	1.49
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	12	1.49
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	12	1.49
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	12	1.49
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	12	1.49
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	9	1.47
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	9	1.47
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	9	1.47
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	6	1.45
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	6	1.45
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	6	1.45
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	1	1.45
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	1	1.45
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	1	1.45
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	6	1.45
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	6	1.45
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	6	1.45
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	3	1.44
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	3	1.44
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	3	1.44
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	4	1.43
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	18	1.42
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	18	1.42
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	18	1.42
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	20	1.41
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	13	1.4
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	13	1.4
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	13	1.4
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	10	1.39
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	10	1.36
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	10	1.36
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	10	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	7	1.35
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	7	1.35
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	7	1.35
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	10	1.33
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	10	1.33
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	10	1.33
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	10	1.33
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	10	1.33
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	10	1.33
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	10	1.33
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	10	1.33
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	10	1.33
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	3	1.33
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	13	1.33
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	15	1.33
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	19	1.33
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	19	1.33
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	19	1.33
(1,10)	1:15:C:LEU:HD21	2:100:A:ZBR:H2	9	1.32
(1,10)	1:15:C:LEU:HD22	2:100:A:ZBR:H2	9	1.32
(1,10)	1:15:C:LEU:HD23	2:100:A:ZBR:H2	9	1.32
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	17	1.31
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	9	1.31
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	9	1.31
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	9	1.31
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	12	1.3
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	12	1.3
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	12	1.3
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	14	1.27
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	14	1.27
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	14	1.27
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	2	1.26
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	2	1.26
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	2	1.26
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	2	1.26
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	2	1.26
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	2	1.26
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	2	1.26
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	2	1.26
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	2	1.26
(1,13)	1:8:C:ILE:HD11	2:100:A:ZBR:H4	10	1.26
(1,13)	1:8:C:ILE:HD12	2:100:A:ZBR:H4	10	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,13)	1:8:C:ILE:HD13	2:100:A:ZBR:H4	10	1.26
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	19	1.23
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	14	1.21
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	12	1.18
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	12	1.18
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	12	1.18
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	15	1.16
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	15	1.16
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	15	1.16
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	15	1.16
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	15	1.16
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	15	1.16
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	15	1.16
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	15	1.16
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	15	1.16
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	7	1.16
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	2	1.16
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	2	1.16
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	2	1.16
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	16	1.15
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	15	1.13
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	15	1.13
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	15	1.13
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	19	1.11
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	19	1.11
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	19	1.11
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	19	1.11
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	19	1.11
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	19	1.11
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	19	1.11
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	19	1.11
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	19	1.11
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	12	1.11
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	6	1.11
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	6	1.11
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	6	1.11
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	9	1.11
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	9	1.11
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	9	1.11
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	1	1.1
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	1	1.1
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	1	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	1	1.1
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	1	1.1
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	1	1.1
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	1	1.1
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	1	1.1
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	1	1.1
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	3	1.1
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	3	1.1
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	3	1.1
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	10	1.09
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	10	1.09
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	10	1.09
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	11	1.07
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	11	1.07
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	11	1.07
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	11	1.07
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	11	1.07
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	11	1.07
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	11	1.07
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	11	1.07
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	11	1.07
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	5	1.06
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	5	1.06
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	5	1.06
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	3	1.04
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	3	1.04
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	3	1.04
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	3	1.04
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	3	1.04
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	3	1.04
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	3	1.04
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	3	1.04
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	3	1.04
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	20	1.03
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	20	1.03
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	20	1.03
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	8	1.01
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	8	1.01
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	8	1.01
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	11	1.01
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	11	1.01
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	11	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	16	1.0
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	16	1.0
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	16	1.0
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	11	0.99
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	11	0.99
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	11	0.99
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	11	0.99
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	11	0.99
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	11	0.99
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	11	0.99
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	11	0.99
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	11	0.99
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	11	0.99
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	11	0.99
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	11	0.99
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	11	0.99
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	11	0.99
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	11	0.99
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	11	0.99
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	11	0.99
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	11	0.99
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	19	0.97
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	19	0.97
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	19	0.97
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	19	0.97
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	19	0.97
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	19	0.97
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	19	0.97
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	19	0.97
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	19	0.97
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	19	0.97
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	19	0.97
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	19	0.97
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	19	0.97
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	19	0.97
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	19	0.97
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	19	0.97
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	19	0.97
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	19	0.97
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	2	0.97
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	8	0.95
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	14	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	14	0.94
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	14	0.94
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	14	0.94
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	14	0.94
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	14	0.94
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	14	0.94
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	14	0.94
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	14	0.94
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	9	0.93
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	9	0.93
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	9	0.93
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	9	0.93
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	9	0.93
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	9	0.93
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	9	0.93
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	9	0.93
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	9	0.93
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	7	0.91
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	7	0.91
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	7	0.91
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	7	0.91
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	7	0.91
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	7	0.91
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	7	0.91
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	7	0.91
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	7	0.91
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	8	0.89
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	8	0.89
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	8	0.89
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	8	0.89
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	8	0.89
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	8	0.89
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	8	0.89
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	8	0.89
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	8	0.89
(1,35)	1:11:C:CYS:HA	2:100:A:ZBR:H6	11	0.88
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	7	0.83
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	7	0.83
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	7	0.83
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	4	0.8
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	4	0.8
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	4	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	13	0.78
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	13	0.78
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	13	0.78
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	13	0.78
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	13	0.78
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	13	0.78
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	13	0.78
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	13	0.78
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	13	0.78
(1,8)	1:15:C:LEU:HD11	2:100:A:ZBR:H6	13	0.78
(1,8)	1:15:C:LEU:HD12	2:100:A:ZBR:H6	13	0.78
(1,8)	1:15:C:LEU:HD13	2:100:A:ZBR:H6	13	0.78
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	18	0.74
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	18	0.74
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	18	0.74
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	18	0.74
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	18	0.74
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	18	0.74
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	18	0.74
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	18	0.74
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	18	0.74
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	20	0.69
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	20	0.69
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	20	0.69
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	20	0.69
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	20	0.69
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	20	0.69
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	20	0.69
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	20	0.69
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	20	0.69
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	16	0.68
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	16	0.68
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	16	0.68
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	16	0.68
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	16	0.68
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	16	0.68
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	16	0.68
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	16	0.68
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	16	0.68
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	4	0.64
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	4	0.64
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	4	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	4	0.64
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	4	0.64
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	4	0.64
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	4	0.64
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	4	0.64
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	4	0.64
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	6	0.58
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	6	0.58
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	6	0.58
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	6	0.58
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	6	0.58
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	6	0.58
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	6	0.58
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	6	0.58
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	6	0.58
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	6	0.58
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	6	0.58
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	6	0.58
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	6	0.58
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	6	0.58
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	6	0.58
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	6	0.58
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	6	0.58
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	6	0.58
(1,7)	1:15:C:LEU:HD11	2:100:A:ZBR:H2	5	0.5
(1,7)	1:15:C:LEU:HD12	2:100:A:ZBR:H2	5	0.5
(1,7)	1:15:C:LEU:HD13	2:100:A:ZBR:H2	5	0.5
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	11	0.48
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	11	0.48
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	11	0.48
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	4	0.47
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	13	0.47
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	16	0.47
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	4	0.47
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	13	0.47
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	16	0.47
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	4	0.47
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	13	0.47
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	16	0.47
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD11	6	0.46
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD12	6	0.46
(1,54)	1:8:C:ILE:HA	1:15:C:LEU:HD13	6	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD11	6	0.46
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD12	6	0.46
(1,53)	1:8:C:ILE:HA	1:15:C:LEU:HD13	6	0.46
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD11	6	0.46
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD12	6	0.46
(1,52)	1:8:C:ILE:HA	1:15:C:LEU:HD13	6	0.46
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	6	0.46
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	8	0.46
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	10	0.46
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	6	0.46
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	8	0.46
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	10	0.46
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	6	0.46
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	8	0.46
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	10	0.46
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	1	0.45
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	9	0.45
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	1	0.45
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	9	0.45
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	1	0.45
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	9	0.45
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	7	0.44
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	17	0.44
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	7	0.44
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	17	0.44
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	7	0.44
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	17	0.44
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	1	0.44
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	1	0.44
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	1	0.44
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	14	0.42
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	18	0.42
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	19	0.42
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	20	0.42
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	14	0.42
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	18	0.42
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	19	0.42
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	20	0.42
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	14	0.42
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	18	0.42
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	19	0.42
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	20	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	3	0.41
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	12	0.41
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	15	0.41
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	3	0.41
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	12	0.41
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	15	0.41
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	3	0.41
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	12	0.41
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	15	0.41
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	5	0.4
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	5	0.4
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	5	0.4
(1,39)	1:18:C:SER:HA	1:19:C:SER:H	2	0.39
(1,38)	1:18:C:SER:HA	1:19:C:SER:H	2	0.39
(1,37)	1:18:C:SER:HA	1:19:C:SER:H	2	0.39
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	15	0.38
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	15	0.38
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	15	0.38
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	7	0.37
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	9	0.37
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	12	0.37
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	14	0.37
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	7	0.37
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	9	0.37
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	12	0.37
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	14	0.37
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	7	0.37
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	9	0.37
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	12	0.37
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	14	0.37
(1,135)	1:14:C:LEU:HD21	1:10:C:ARG:HE	7	0.36
(1,135)	1:14:C:LEU:HD22	1:10:C:ARG:HE	7	0.36
(1,135)	1:14:C:LEU:HD23	1:10:C:ARG:HE	7	0.36
(1,135)	1:14:C:LEU:HD21	1:10:C:ARG:HE	11	0.36
(1,135)	1:14:C:LEU:HD22	1:10:C:ARG:HE	11	0.36
(1,135)	1:14:C:LEU:HD23	1:10:C:ARG:HE	11	0.36
(1,134)	1:14:C:LEU:HD21	1:10:C:ARG:HE	7	0.36
(1,134)	1:14:C:LEU:HD22	1:10:C:ARG:HE	7	0.36
(1,134)	1:14:C:LEU:HD23	1:10:C:ARG:HE	7	0.36
(1,134)	1:14:C:LEU:HD21	1:10:C:ARG:HE	11	0.36
(1,134)	1:14:C:LEU:HD22	1:10:C:ARG:HE	11	0.36
(1,134)	1:14:C:LEU:HD23	1:10:C:ARG:HE	11	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,133)	1:14:C:LEU:HD21	1:10:C:ARG:HE	7	0.36
(1,133)	1:14:C:LEU:HD22	1:10:C:ARG:HE	7	0.36
(1,133)	1:14:C:LEU:HD23	1:10:C:ARG:HE	7	0.36
(1,133)	1:14:C:LEU:HD21	1:10:C:ARG:HE	11	0.36
(1,133)	1:14:C:LEU:HD22	1:10:C:ARG:HE	11	0.36
(1,133)	1:14:C:LEU:HD23	1:10:C:ARG:HE	11	0.36
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	3	0.36
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	16	0.36
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	17	0.36
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	3	0.36
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	16	0.36
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	17	0.36
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	3	0.36
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	16	0.36
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	17	0.36
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	2	0.35
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	5	0.35
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	6	0.35
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	10	0.35
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	11	0.35
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	18	0.35
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	19	0.35
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	20	0.35
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	2	0.35
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	5	0.35
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	6	0.35
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	10	0.35
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	11	0.35
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	18	0.35
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	19	0.35
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	20	0.35
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	2	0.35
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	5	0.35
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	6	0.35
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	10	0.35
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	11	0.35
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	18	0.35
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	19	0.35
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	20	0.35
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	8	0.34
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	13	0.34
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	8	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	13	0.34
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	8	0.34
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	13	0.34
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	6	0.34
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	6	0.34
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	6	0.34
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	1	0.33
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	1	0.33
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	1	0.33
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	9	0.33
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	9	0.33
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	9	0.33
(1,42)	1:19:C:SER:HA	1:20:C:SER:H	4	0.32
(1,41)	1:19:C:SER:HA	1:20:C:SER:H	4	0.32
(1,40)	1:19:C:SER:HA	1:20:C:SER:H	4	0.32
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	5	0.3
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	5	0.3
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	5	0.3
(1,12)	1:15:C:LEU:HD21	2:100:A:ZBR:H4	1	0.27
(1,12)	1:15:C:LEU:HD22	2:100:A:ZBR:H4	1	0.27
(1,12)	1:15:C:LEU:HD23	2:100:A:ZBR:H4	1	0.27
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	20	0.27
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	20	0.27
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	20	0.27
(1,135)	1:14:C:LEU:HD21	1:10:C:ARG:HE	12	0.25
(1,135)	1:14:C:LEU:HD22	1:10:C:ARG:HE	12	0.25
(1,135)	1:14:C:LEU:HD23	1:10:C:ARG:HE	12	0.25
(1,134)	1:14:C:LEU:HD21	1:10:C:ARG:HE	12	0.25
(1,134)	1:14:C:LEU:HD22	1:10:C:ARG:HE	12	0.25
(1,134)	1:14:C:LEU:HD23	1:10:C:ARG:HE	12	0.25
(1,133)	1:14:C:LEU:HD21	1:10:C:ARG:HE	12	0.25
(1,133)	1:14:C:LEU:HD22	1:10:C:ARG:HE	12	0.25
(1,133)	1:14:C:LEU:HD23	1:10:C:ARG:HE	12	0.25
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	18	0.25
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	18	0.25
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	18	0.25
(1,222)	1:6:C:GLU:H	1:6:C:GLU:HG2	15	0.24
(1,222)	1:6:C:GLU:H	1:6:C:GLU:HG3	15	0.24
(1,221)	1:6:C:GLU:H	1:6:C:GLU:HG2	15	0.24
(1,221)	1:6:C:GLU:H	1:6:C:GLU:HG3	15	0.24
(1,220)	1:6:C:GLU:H	1:6:C:GLU:HG2	15	0.24
(1,220)	1:6:C:GLU:H	1:6:C:GLU:HG3	15	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,18)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	8	0.24
(1,18)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	8	0.24
(1,18)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	8	0.24
(1,17)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	8	0.24
(1,17)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	8	0.24
(1,17)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	8	0.24
(1,16)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	8	0.24
(1,16)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	8	0.24
(1,16)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	8	0.24
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	9	0.23
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	9	0.23
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	9	0.23
(1,135)	1:14:C:LEU:HD21	1:10:C:ARG:HE	13	0.23
(1,135)	1:14:C:LEU:HD22	1:10:C:ARG:HE	13	0.23
(1,135)	1:14:C:LEU:HD23	1:10:C:ARG:HE	13	0.23
(1,134)	1:14:C:LEU:HD21	1:10:C:ARG:HE	13	0.23
(1,134)	1:14:C:LEU:HD22	1:10:C:ARG:HE	13	0.23
(1,134)	1:14:C:LEU:HD23	1:10:C:ARG:HE	13	0.23
(1,133)	1:14:C:LEU:HD21	1:10:C:ARG:HE	13	0.23
(1,133)	1:14:C:LEU:HD22	1:10:C:ARG:HE	13	0.23
(1,133)	1:14:C:LEU:HD23	1:10:C:ARG:HE	13	0.23
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	14	0.23
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	14	0.23
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	14	0.23
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	10	0.22
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	10	0.22
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	10	0.22
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	4	0.22
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	4	0.22
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	4	0.22
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	3	0.21
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	3	0.21
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	3	0.21
(1,18)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	13	0.21
(1,18)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	13	0.21
(1,18)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	13	0.21
(1,17)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	13	0.21
(1,17)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	13	0.21
(1,17)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	13	0.21
(1,16)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	13	0.21
(1,16)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	13	0.21
(1,16)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	13	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	17	0.2
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	17	0.2
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	17	0.2
(1,147)	1:12:C:LYS:HA	1:15:C:LEU:HD11	17	0.2
(1,147)	1:12:C:LYS:HA	1:15:C:LEU:HD12	17	0.2
(1,147)	1:12:C:LYS:HA	1:15:C:LEU:HD13	17	0.2
(1,146)	1:12:C:LYS:HA	1:15:C:LEU:HD11	17	0.2
(1,146)	1:12:C:LYS:HA	1:15:C:LEU:HD12	17	0.2
(1,146)	1:12:C:LYS:HA	1:15:C:LEU:HD13	17	0.2
(1,145)	1:12:C:LYS:HA	1:15:C:LEU:HD11	17	0.2
(1,145)	1:12:C:LYS:HA	1:15:C:LEU:HD12	17	0.2
(1,145)	1:12:C:LYS:HA	1:15:C:LEU:HD13	17	0.2
(1,9)	1:15:C:LEU:HD11	2:100:A:ZBR:H4	17	0.2
(1,9)	1:15:C:LEU:HD12	2:100:A:ZBR:H4	17	0.2
(1,9)	1:15:C:LEU:HD13	2:100:A:ZBR:H4	17	0.2
(1,135)	1:14:C:LEU:HD21	1:10:C:ARG:HE	19	0.19
(1,135)	1:14:C:LEU:HD22	1:10:C:ARG:HE	19	0.19
(1,135)	1:14:C:LEU:HD23	1:10:C:ARG:HE	19	0.19
(1,134)	1:14:C:LEU:HD21	1:10:C:ARG:HE	19	0.19
(1,134)	1:14:C:LEU:HD22	1:10:C:ARG:HE	19	0.19
(1,134)	1:14:C:LEU:HD23	1:10:C:ARG:HE	19	0.19
(1,133)	1:14:C:LEU:HD21	1:10:C:ARG:HE	19	0.19
(1,133)	1:14:C:LEU:HD22	1:10:C:ARG:HE	19	0.19
(1,133)	1:14:C:LEU:HD23	1:10:C:ARG:HE	19	0.19
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	10	0.19
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	10	0.19
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	10	0.19
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	16	0.18
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	16	0.18
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	16	0.18
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	4	0.18
(1,60)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	4	0.18
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	4	0.18
(1,60)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	4	0.18
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	4	0.18
(1,60)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	4	0.18
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	4	0.18
(1,59)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	4	0.18
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	4	0.18
(1,59)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	4	0.18
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	4	0.18
(1,59)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG2	4	0.18
(1,58)	1:14:C:LEU:HD11	1:7:C:GLU:HG3	4	0.18
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG2	4	0.18
(1,58)	1:14:C:LEU:HD12	1:7:C:GLU:HG3	4	0.18
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG2	4	0.18
(1,58)	1:14:C:LEU:HD13	1:7:C:GLU:HG3	4	0.18
(1,12)	1:15:C:LEU:HD21	2:100:A:ZBR:H4	5	0.18
(1,12)	1:15:C:LEU:HD22	2:100:A:ZBR:H4	5	0.18
(1,12)	1:15:C:LEU:HD23	2:100:A:ZBR:H4	5	0.18
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	6	0.17
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	18	0.17
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	6	0.17
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	18	0.17
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	6	0.17
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	18	0.17
(1,135)	1:14:C:LEU:HD21	1:10:C:ARG:HE	2	0.17
(1,135)	1:14:C:LEU:HD22	1:10:C:ARG:HE	2	0.17
(1,135)	1:14:C:LEU:HD23	1:10:C:ARG:HE	2	0.17
(1,134)	1:14:C:LEU:HD21	1:10:C:ARG:HE	2	0.17
(1,134)	1:14:C:LEU:HD22	1:10:C:ARG:HE	2	0.17
(1,134)	1:14:C:LEU:HD23	1:10:C:ARG:HE	2	0.17
(1,133)	1:14:C:LEU:HD21	1:10:C:ARG:HE	2	0.17
(1,133)	1:14:C:LEU:HD22	1:10:C:ARG:HE	2	0.17
(1,133)	1:14:C:LEU:HD23	1:10:C:ARG:HE	2	0.17
(1,18)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	4	0.17
(1,18)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	4	0.17
(1,18)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	4	0.17
(1,17)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	4	0.17
(1,17)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	4	0.17
(1,17)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	4	0.17
(1,16)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	4	0.17
(1,16)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	4	0.17
(1,16)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	4	0.17
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	16	0.17
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	16	0.17
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	16	0.17
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	19	0.17
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	19	0.17
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	19	0.17
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	14	0.16
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	14	0.16
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	14	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,222)	1:6:C:GLU:H	1:6:C:GLU:HG2	20	0.16
(1,222)	1:6:C:GLU:H	1:6:C:GLU:HG3	20	0.16
(1,221)	1:6:C:GLU:H	1:6:C:GLU:HG2	20	0.16
(1,221)	1:6:C:GLU:H	1:6:C:GLU:HG3	20	0.16
(1,220)	1:6:C:GLU:H	1:6:C:GLU:HG2	20	0.16
(1,220)	1:6:C:GLU:H	1:6:C:GLU:HG3	20	0.16
(1,135)	1:14:C:LEU:HD21	1:10:C:ARG:HE	6	0.16
(1,135)	1:14:C:LEU:HD22	1:10:C:ARG:HE	6	0.16
(1,135)	1:14:C:LEU:HD23	1:10:C:ARG:HE	6	0.16
(1,134)	1:14:C:LEU:HD21	1:10:C:ARG:HE	6	0.16
(1,134)	1:14:C:LEU:HD22	1:10:C:ARG:HE	6	0.16
(1,134)	1:14:C:LEU:HD23	1:10:C:ARG:HE	6	0.16
(1,133)	1:14:C:LEU:HD21	1:10:C:ARG:HE	6	0.16
(1,133)	1:14:C:LEU:HD22	1:10:C:ARG:HE	6	0.16
(1,133)	1:14:C:LEU:HD23	1:10:C:ARG:HE	6	0.16
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	1	0.16
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	11	0.16
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	1	0.16
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	11	0.16
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	1	0.16
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	11	0.16
(1,15)	1:8:C:ILE:HD11	2:100:A:ZBR:H6	8	0.16
(1,15)	1:8:C:ILE:HD12	2:100:A:ZBR:H6	8	0.16
(1,15)	1:8:C:ILE:HD13	2:100:A:ZBR:H6	8	0.16
(1,15)	1:8:C:ILE:HD11	2:100:A:ZBR:H6	16	0.16
(1,15)	1:8:C:ILE:HD12	2:100:A:ZBR:H6	16	0.16
(1,15)	1:8:C:ILE:HD13	2:100:A:ZBR:H6	16	0.16
(1,12)	1:15:C:LEU:HD21	2:100:A:ZBR:H4	18	0.16
(1,12)	1:15:C:LEU:HD22	2:100:A:ZBR:H4	18	0.16
(1,12)	1:15:C:LEU:HD23	2:100:A:ZBR:H4	18	0.16
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	1	0.15
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	11	0.15
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	1	0.15
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	11	0.15
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	1	0.15
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	11	0.15
(1,201)	1:4:C:GLU:H	1:4:C:GLU:HG2	14	0.15
(1,201)	1:4:C:GLU:H	1:4:C:GLU:HG3	14	0.15
(1,200)	1:4:C:GLU:H	1:4:C:GLU:HG2	14	0.15
(1,200)	1:4:C:GLU:H	1:4:C:GLU:HG3	14	0.15
(1,199)	1:4:C:GLU:H	1:4:C:GLU:HG2	14	0.15
(1,199)	1:4:C:GLU:H	1:4:C:GLU:HG3	14	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	17	0.15
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	18	0.15
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	19	0.15
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	17	0.15
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	18	0.15
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	19	0.15
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	17	0.15
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	18	0.15
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	19	0.15
(1,18)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	7	0.15
(1,18)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	7	0.15
(1,18)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	7	0.15
(1,17)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	7	0.15
(1,17)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	7	0.15
(1,17)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	7	0.15
(1,16)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	7	0.15
(1,16)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	7	0.15
(1,16)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	7	0.15
(1,15)	1:8:C:ILE:HD11	2:100:A:ZBR:H6	6	0.15
(1,15)	1:8:C:ILE:HD12	2:100:A:ZBR:H6	6	0.15
(1,15)	1:8:C:ILE:HD13	2:100:A:ZBR:H6	6	0.15
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	3	0.15
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	3	0.15
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	3	0.15
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	13	0.15
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	13	0.15
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	13	0.15
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	19	0.14
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	19	0.14
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	19	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	2	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	4	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	5	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	6	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	10	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	13	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	14	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	15	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	16	0.14
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	20	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	2	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	4	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	5	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	6	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	10	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	13	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	14	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	15	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	16	0.14
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	20	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	2	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	4	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	5	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	6	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	10	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	13	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	14	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	15	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	16	0.14
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	20	0.14
(1,18)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	3	0.14
(1,18)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	3	0.14
(1,18)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	3	0.14
(1,17)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	3	0.14
(1,17)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	3	0.14
(1,17)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	3	0.14
(1,16)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	3	0.14
(1,16)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	3	0.14
(1,16)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	3	0.14
(1,15)	1:8:C:ILE:HD11	2:100:A:ZBR:H6	1	0.14
(1,15)	1:8:C:ILE:HD12	2:100:A:ZBR:H6	1	0.14
(1,15)	1:8:C:ILE:HD13	2:100:A:ZBR:H6	1	0.14
(1,15)	1:8:C:ILE:HD11	2:100:A:ZBR:H6	5	0.14
(1,15)	1:8:C:ILE:HD12	2:100:A:ZBR:H6	5	0.14
(1,15)	1:8:C:ILE:HD13	2:100:A:ZBR:H6	5	0.14
(1,15)	1:8:C:ILE:HD11	2:100:A:ZBR:H6	11	0.14
(1,15)	1:8:C:ILE:HD12	2:100:A:ZBR:H6	11	0.14
(1,15)	1:8:C:ILE:HD13	2:100:A:ZBR:H6	11	0.14
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	12	0.14
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	12	0.14
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	12	0.14
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	2	0.13
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	2	0.13
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	7	0.13
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	8	0.13
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	9	0.13
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	7	0.13
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	8	0.13
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	9	0.13
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	7	0.13
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	8	0.13
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	9	0.13
(1,12)	1:15:C:LEU:HD21	2:100:A:ZBR:H4	15	0.13
(1,12)	1:15:C:LEU:HD22	2:100:A:ZBR:H4	15	0.13
(1,12)	1:15:C:LEU:HD23	2:100:A:ZBR:H4	15	0.13
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	4	0.12
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	8	0.12
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	15	0.12
(2,5)	1:7:C:GLU:OE1	1:10:C:ARG:HE	20	0.12
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	4	0.12
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	8	0.12
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	15	0.12
(2,3)	1:7:C:GLU:OE1	1:10:C:ARG:HE	20	0.12
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	4	0.12
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	8	0.12
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	15	0.12
(2,1)	1:7:C:GLU:OE1	1:10:C:ARG:HE	20	0.12
(1,222)	1:6:C:GLU:H	1:6:C:GLU:HG2	12	0.12
(1,222)	1:6:C:GLU:H	1:6:C:GLU:HG3	12	0.12
(1,221)	1:6:C:GLU:H	1:6:C:GLU:HG2	12	0.12
(1,221)	1:6:C:GLU:H	1:6:C:GLU:HG3	12	0.12
(1,220)	1:6:C:GLU:H	1:6:C:GLU:HG2	12	0.12
(1,220)	1:6:C:GLU:H	1:6:C:GLU:HG3	12	0.12
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	12	0.12
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	12	0.12
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	12	0.12
(1,12)	1:15:C:LEU:HD21	2:100:A:ZBR:H4	19	0.12
(1,12)	1:15:C:LEU:HD22	2:100:A:ZBR:H4	19	0.12
(1,12)	1:15:C:LEU:HD23	2:100:A:ZBR:H4	19	0.12
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	2	0.12
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	2	0.12
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	2	0.12
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	8	0.12
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	8	0.12
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	8	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,6)	1:14:C:LEU:HD21	2:100:A:ZBR:H4	15	0.12
(1,6)	1:14:C:LEU:HD22	2:100:A:ZBR:H4	15	0.12
(1,6)	1:14:C:LEU:HD23	2:100:A:ZBR:H4	15	0.12
(1,249)	1:8:C:ILE:H	1:8:C:ILE:HD11	1	0.11
(1,249)	1:8:C:ILE:H	1:8:C:ILE:HD12	1	0.11
(1,249)	1:8:C:ILE:H	1:8:C:ILE:HD13	1	0.11
(1,248)	1:8:C:ILE:H	1:8:C:ILE:HD11	1	0.11
(1,248)	1:8:C:ILE:H	1:8:C:ILE:HD12	1	0.11
(1,248)	1:8:C:ILE:H	1:8:C:ILE:HD13	1	0.11
(1,247)	1:8:C:ILE:H	1:8:C:ILE:HD11	1	0.11
(1,247)	1:8:C:ILE:H	1:8:C:ILE:HD12	1	0.11
(1,247)	1:8:C:ILE:H	1:8:C:ILE:HD13	1	0.11
(1,105)	1:2:C:ASN:HA	1:5:C:ALA:HB1	1	0.11
(1,105)	1:2:C:ASN:HA	1:5:C:ALA:HB2	1	0.11
(1,105)	1:2:C:ASN:HA	1:5:C:ALA:HB3	1	0.11
(1,104)	1:2:C:ASN:HA	1:5:C:ALA:HB1	1	0.11
(1,104)	1:2:C:ASN:HA	1:5:C:ALA:HB2	1	0.11
(1,104)	1:2:C:ASN:HA	1:5:C:ALA:HB3	1	0.11
(1,103)	1:2:C:ASN:HA	1:5:C:ALA:HB1	1	0.11
(1,103)	1:2:C:ASN:HA	1:5:C:ALA:HB2	1	0.11
(1,103)	1:2:C:ASN:HA	1:5:C:ALA:HB3	1	0.11
(1,48)	1:1:C:LYS:HA	1:2:C:ASN:H	3	0.11
(1,47)	1:1:C:LYS:HA	1:2:C:ASN:H	3	0.11
(1,46)	1:1:C:LYS:HA	1:2:C:ASN:H	3	0.11
(1,18)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	6	0.11
(1,18)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	6	0.11
(1,18)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	6	0.11
(1,18)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	15	0.11
(1,18)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	15	0.11
(1,18)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	15	0.11
(1,17)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	6	0.11
(1,17)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	6	0.11
(1,17)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	6	0.11
(1,17)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	15	0.11
(1,17)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	15	0.11
(1,17)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	15	0.11
(1,16)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	6	0.11
(1,16)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	6	0.11
(1,16)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	6	0.11
(1,16)	1:8:C:ILE:HD11	1:2:C:ASN:HD21	15	0.11
(1,16)	1:8:C:ILE:HD12	1:2:C:ASN:HD21	15	0.11
(1,16)	1:8:C:ILE:HD13	1:2:C:ASN:HD21	15	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,15)	1:8:C:ILE:HD11	2:100:A:ZBR:H6	20	0.11
(1,15)	1:8:C:ILE:HD12	2:100:A:ZBR:H6	20	0.11
(1,15)	1:8:C:ILE:HD13	2:100:A:ZBR:H6	20	0.11
(1,12)	1:15:C:LEU:HD21	2:100:A:ZBR:H4	9	0.11
(1,12)	1:15:C:LEU:HD22	2:100:A:ZBR:H4	9	0.11
(1,12)	1:15:C:LEU:HD23	2:100:A:ZBR:H4	9	0.11
(1,249)	1:8:C:ILE:H	1:8:C:ILE:HD11	18	0.1
(1,249)	1:8:C:ILE:H	1:8:C:ILE:HD12	18	0.1
(1,249)	1:8:C:ILE:H	1:8:C:ILE:HD13	18	0.1
(1,248)	1:8:C:ILE:H	1:8:C:ILE:HD11	18	0.1
(1,248)	1:8:C:ILE:H	1:8:C:ILE:HD12	18	0.1
(1,248)	1:8:C:ILE:H	1:8:C:ILE:HD13	18	0.1
(1,247)	1:8:C:ILE:H	1:8:C:ILE:HD11	18	0.1
(1,247)	1:8:C:ILE:H	1:8:C:ILE:HD12	18	0.1
(1,247)	1:8:C:ILE:H	1:8:C:ILE:HD13	18	0.1
(1,12)	1:15:C:LEU:HD21	2:100:A:ZBR:H4	3	0.1
(1,12)	1:15:C:LEU:HD22	2:100:A:ZBR:H4	3	0.1
(1,12)	1:15:C:LEU:HD23	2:100:A:ZBR:H4	3	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found