



Full wwPDB NMR Structure Validation Report ⓘ

Mar 5, 2026 – 07:56 PM UTC

PDB ID : 5M4T / pdb_00005m4t
BMRB ID : 34055
Title : C-terminal domain structure of VSG M1.1
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Deposited on : 2016-10-19

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

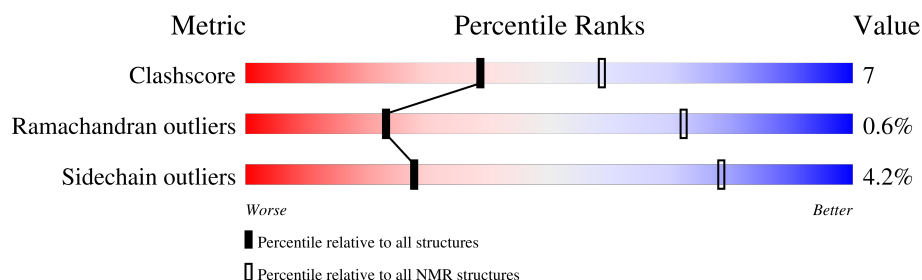
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 63%.

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	73	52% 11% 37%

2 Ensemble composition and analysis

This entry contains 35 models. Model 1 is the overall representative, medoid model (most similar to other models).

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:379-A:416 (38)	0.54	1
2	A:418-A:425 (8)	0.27	18

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 4 clusters. No single-model clusters were found.

Cluster number	Models
1	1, 3, 4, 8, 11, 15, 18, 20, 22, 23, 26, 27, 28, 30, 31, 32, 33
2	2, 6, 7, 10, 12, 16, 21, 25, 29, 34
3	13, 14, 17, 24, 35
4	5, 9, 19

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1128 atoms, of which 563 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Variant surface glycoprotein MITAT 1.1.

Mol	Chain	Residues	Atoms						Trace
1	A	73	Total	C	H	N	O	S	0
			1128	335	563	100	126	4	

There is a discrepancy between the modelled and reference sequences:

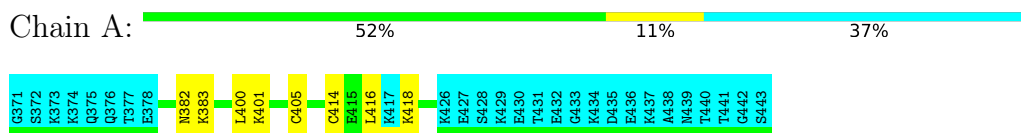
Chain	Residue	Modelled	Actual	Comment	Reference
A	371	GLY	-	expression tag	UNP P26331

4 Residue-property plots [i](#)

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Variant surface glycoprotein MITAT 1.1

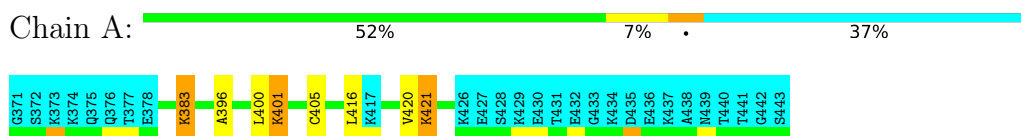


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

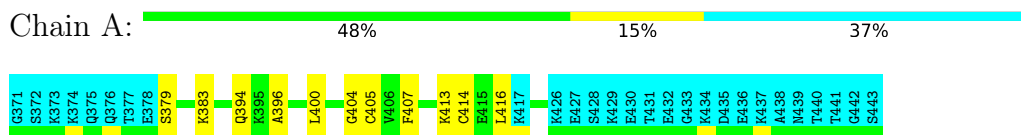
4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: Variant surface glycoprotein MITAT 1.1



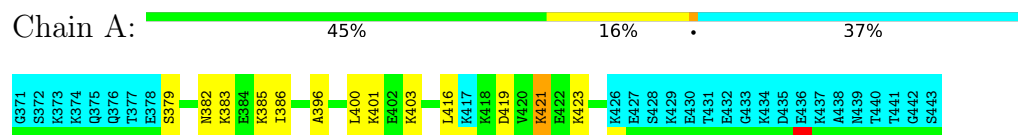
4.2.2 Score per residue for model 2

- Molecule 1: Variant surface glycoprotein MITAT 1.1



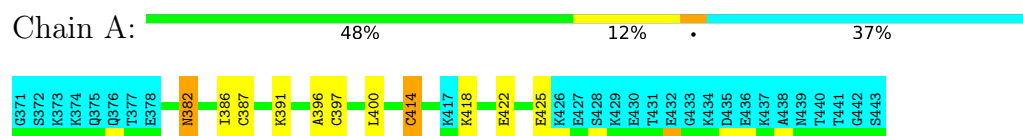
4.2.3 Score per residue for model 3

- Molecule 1: Variant surface glycoprotein MITAT 1.1



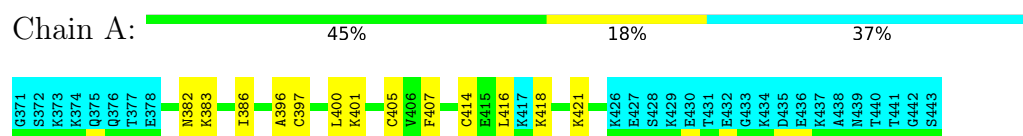
4.2.4 Score per residue for model 4

- Molecule 1: Variant surface glycoprotein MITAT 1.1



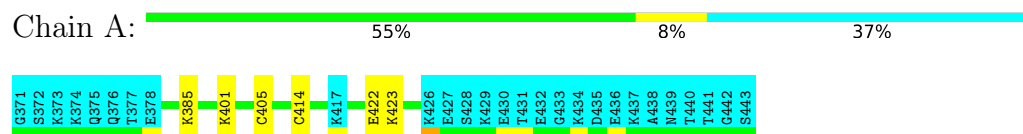
4.2.5 Score per residue for model 5

- Molecule 1: Variant surface glycoprotein MITAT 1.1



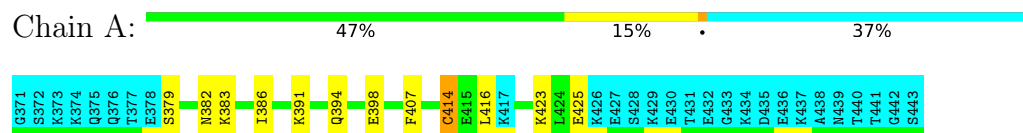
4.2.6 Score per residue for model 6

- Molecule 1: Variant surface glycoprotein MITAT 1.1



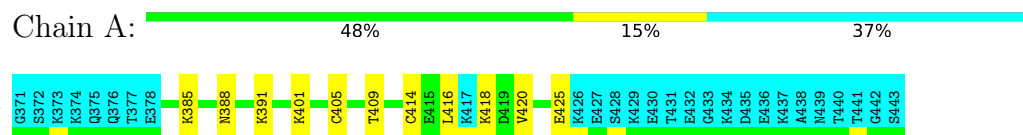
4.2.7 Score per residue for model 7

- Molecule 1: Variant surface glycoprotein MITAT 1.1



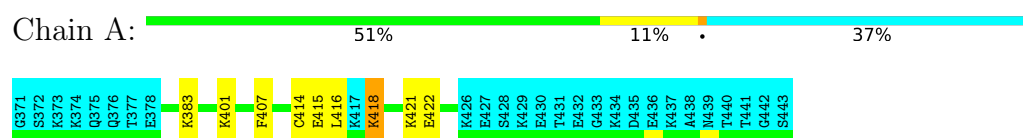
4.2.8 Score per residue for model 8

- Molecule 1: Variant surface glycoprotein MITAT 1.1



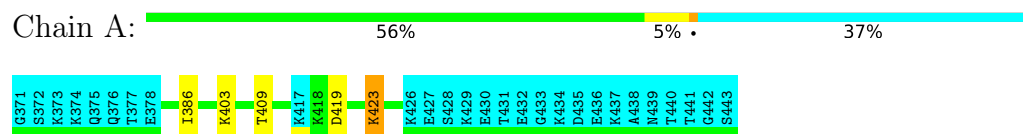
4.2.9 Score per residue for model 9

- Molecule 1: Variant surface glycoprotein MITAT 1.1



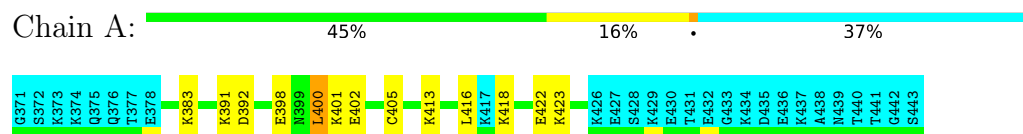
4.2.10 Score per residue for model 10

- Molecule 1: Variant surface glycoprotein MITAT 1.1



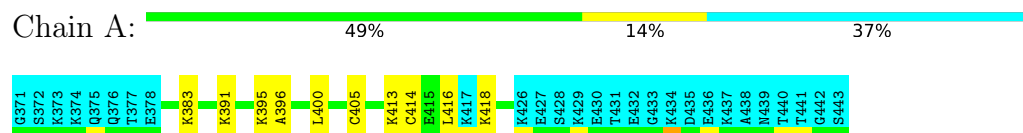
4.2.11 Score per residue for model 11

- Molecule 1: Variant surface glycoprotein MITAT 1.1



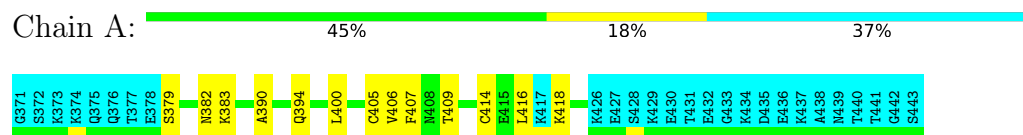
4.2.12 Score per residue for model 12

- Molecule 1: Variant surface glycoprotein MITAT 1.1



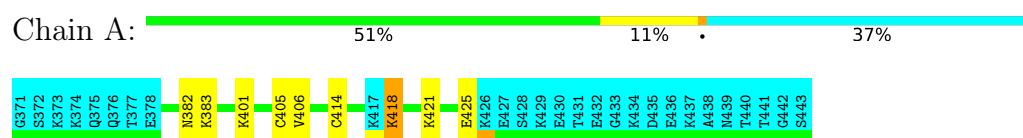
4.2.13 Score per residue for model 13

- Molecule 1: Variant surface glycoprotein MITAT 1.1



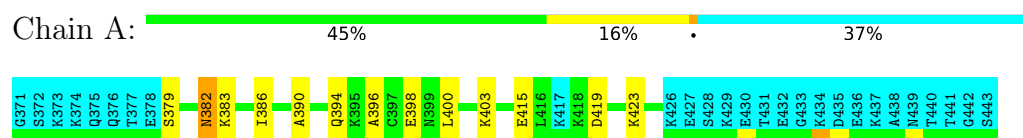
4.2.14 Score per residue for model 14

- Molecule 1: Variant surface glycoprotein MITAT 1.1



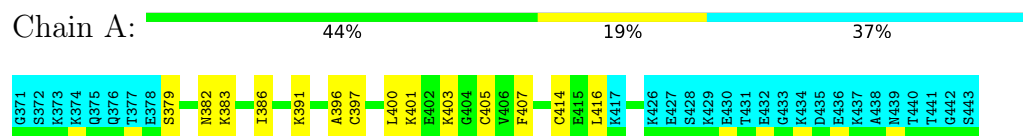
4.2.15 Score per residue for model 15

- Molecule 1: Variant surface glycoprotein MITAT 1.1



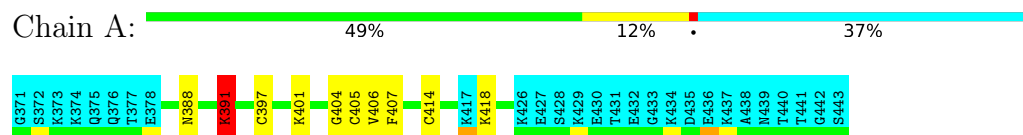
4.2.16 Score per residue for model 16

- Molecule 1: Variant surface glycoprotein MITAT 1.1



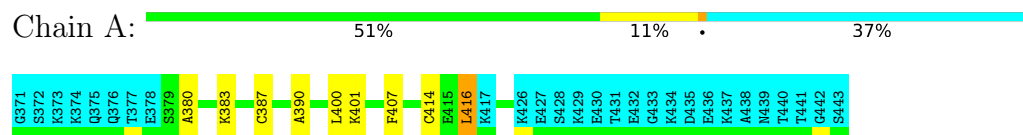
4.2.17 Score per residue for model 17

- Molecule 1: Variant surface glycoprotein MITAT 1.1



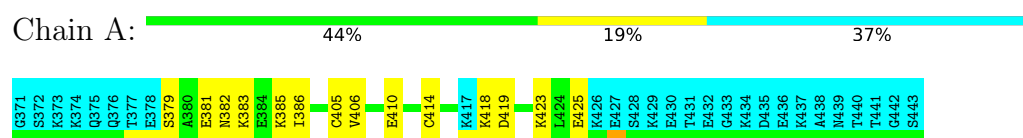
4.2.18 Score per residue for model 18

- Molecule 1: Variant surface glycoprotein MITAT 1.1



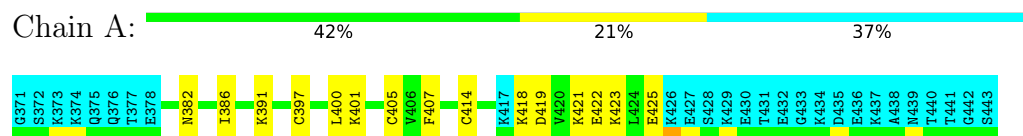
4.2.19 Score per residue for model 19

- Molecule 1: Variant surface glycoprotein MITAT 1.1



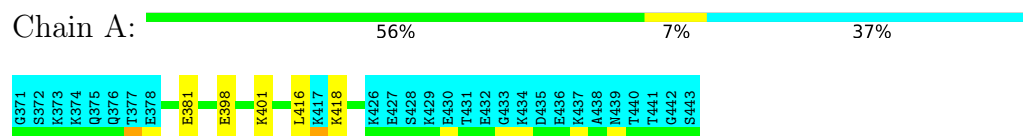
4.2.20 Score per residue for model 20

- Molecule 1: Variant surface glycoprotein MITAT 1.1



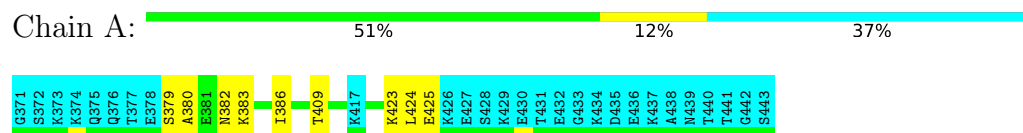
4.2.21 Score per residue for model 21

- Molecule 1: Variant surface glycoprotein MITAT 1.1



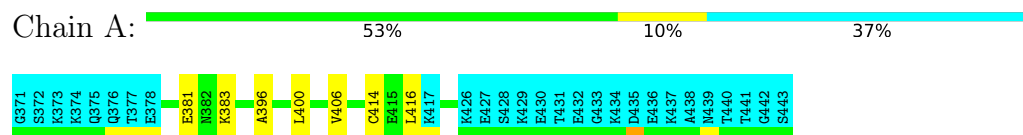
4.2.22 Score per residue for model 22

- Molecule 1: Variant surface glycoprotein MITAT 1.1



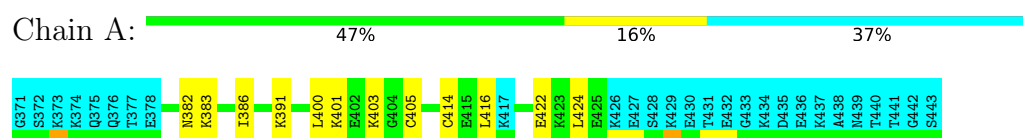
4.2.23 Score per residue for model 23

- Molecule 1: Variant surface glycoprotein MITAT 1.1



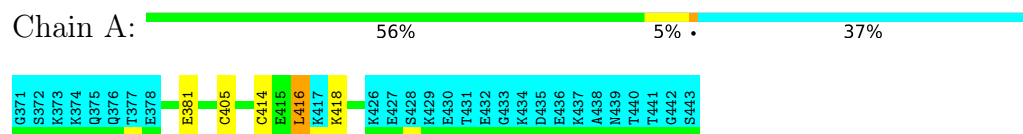
4.2.24 Score per residue for model 24

- Molecule 1: Variant surface glycoprotein MITAT 1.1



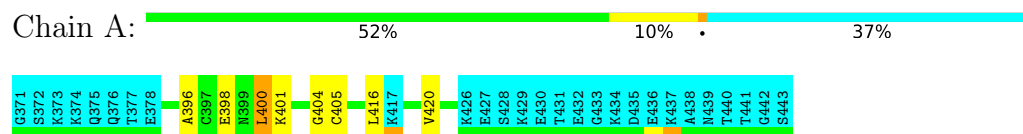
4.2.25 Score per residue for model 25

- Molecule 1: Variant surface glycoprotein MITAT 1.1



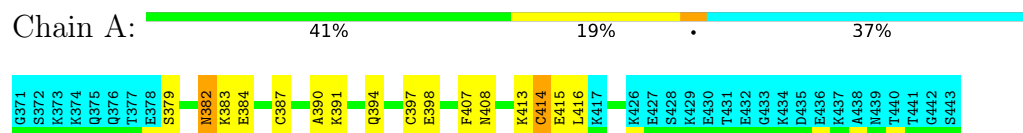
4.2.26 Score per residue for model 26

- Molecule 1: Variant surface glycoprotein MITAT 1.1



4.2.27 Score per residue for model 27

- Molecule 1: Variant surface glycoprotein MITAT 1.1



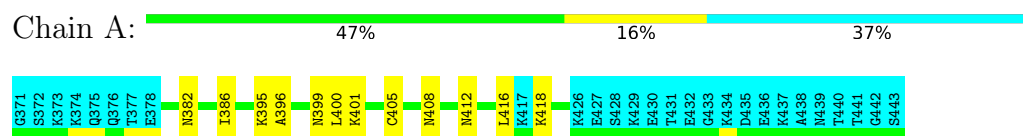
4.2.28 Score per residue for model 28

- Molecule 1: Variant surface glycoprotein MITAT 1.1



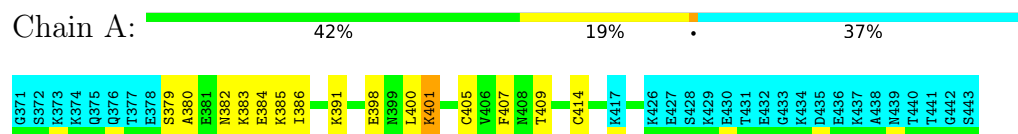
4.2.29 Score per residue for model 29

- Molecule 1: Variant surface glycoprotein MITAT 1.1



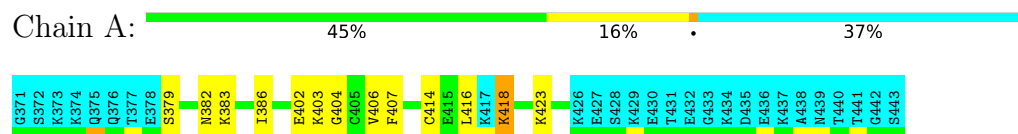
4.2.30 Score per residue for model 30

- Molecule 1: Variant surface glycoprotein MITAT 1.1



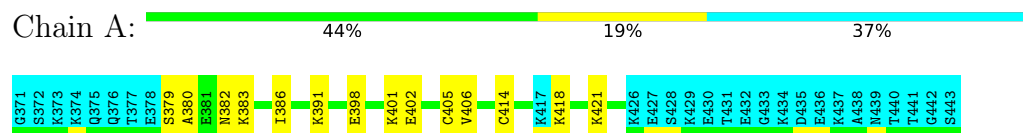
4.2.31 Score per residue for model 31

- Molecule 1: Variant surface glycoprotein MITAT 1.1



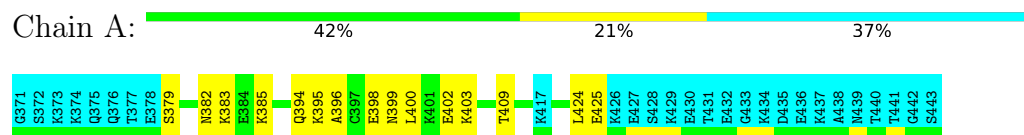
4.2.32 Score per residue for model 32

- Molecule 1: Variant surface glycoprotein MITAT 1.1



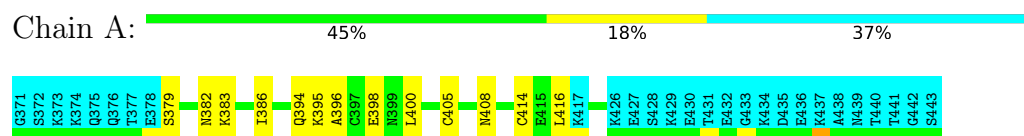
4.2.33 Score per residue for model 33

- Molecule 1: Variant surface glycoprotein MITAT 1.1



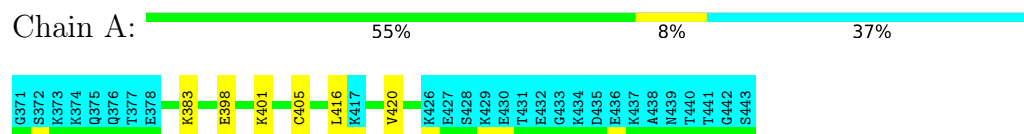
4.2.34 Score per residue for model 34

- Molecule 1: Variant surface glycoprotein MITAT 1.1



4.2.35 Score per residue for model 35

- Molecule 1: Variant surface glycoprotein MITAT 1.1



5 Refinement protocol and experimental data overview

The models were refined using the following method: *torsion angle dynamics*.

Of the 100 calculated structures, 35 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
CNS	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	572
Number of shifts mapped to atoms	572
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	63%

6 Model quality [i](#)

6.1 Standard geometry [i](#)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the (average) root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.38±0.02	0±0/360 (0.0± 0.0%)	0.71±0.03	0±0/477 (0.0± 0.1%)
All	All	0.38	0/12600 (0.0%)	0.71	3/16695 (0.0%)

There are no bond-length outliers.

All unique angle outliers are listed below.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	391	LYS	CB-CA-C	-5.64	110.09	116.63	12	3

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts [i](#)

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	359	357	357	5±2
All	All	12565	12495	12495	183

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 7.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:395:LYS:HE2	1:A:395:LYS:HA	0.78	1.52	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:416:LEU:HD23	1:A:418:LYS:HD3	0.71	1.62	21	1
1:A:398:GLU:HA	1:A:401:LYS:HB2	0.71	1.62	32	5
1:A:379:SER:O	1:A:383:LYS:HB2	0.68	1.89	28	14
1:A:384:GLU:HG2	1:A:416:LEU:HB2	0.68	1.64	27	1
1:A:407:PHE:HA	1:A:414:CYS:HA	0.66	1.66	27	6
1:A:401:LYS:HG3	1:A:405:CYS:O	0.62	1.95	17	4
1:A:396:ALA:O	1:A:400:LEU:HG	0.61	1.94	4	14
1:A:390:ALA:HB3	1:A:414:CYS:SG	0.60	2.36	27	1
1:A:421:LYS:HE2	1:A:421:LYS:HA	0.59	1.74	3	2
1:A:383:LYS:HB3	1:A:416:LEU:HD13	0.59	1.75	7	8
1:A:416:LEU:HD22	1:A:418:LYS:HG2	0.58	1.75	25	1
1:A:379:SER:HA	1:A:382:ASN:ND2	0.58	2.13	19	3
1:A:383:LYS:HE3	1:A:403:LYS:HB3	0.57	1.75	16	1
1:A:407:PHE:HD2	1:A:414:CYS:SG	0.57	2.22	16	2
1:A:383:LYS:HA	1:A:383:LYS:HE3	0.57	1.76	1	1
1:A:405:CYS:HB3	1:A:414:CYS:SG	0.57	2.40	28	13
1:A:401:LYS:HD3	1:A:405:CYS:O	0.56	2.00	28	1
1:A:402:GLU:HG3	1:A:403:LYS:HD2	0.55	1.79	31	1
1:A:418:LYS:HE2	1:A:418:LYS:HA	0.54	1.78	25	2
1:A:390:ALA:HB2	1:A:400:LEU:HD21	0.54	1.79	18	3
1:A:418:LYS:O	1:A:422:GLU:HG2	0.54	2.03	9	1
1:A:386:ILE:HD13	1:A:403:LYS:HD3	0.53	1.80	10	1
1:A:416:LEU:O	1:A:418:LYS:HE2	0.53	2.03	31	1
1:A:401:LYS:HA	1:A:405:CYS:O	0.53	2.04	20	5
1:A:387:CYS:O	1:A:414:CYS:HB2	0.53	2.04	18	1
1:A:419:ASP:O	1:A:423:LYS:HG2	0.52	2.05	15	1
1:A:383:LYS:HB3	1:A:416:LEU:HD22	0.52	1.81	13	5
1:A:382:ASN:O	1:A:386:ILE:HG13	0.51	2.06	16	15
1:A:400:LEU:HA	1:A:403:LYS:HD3	0.51	1.82	24	1
1:A:421:LYS:O	1:A:425:GLU:HG2	0.51	2.06	14	1
1:A:388:ASN:O	1:A:391:LYS:HG3	0.51	2.06	17	1
1:A:419:ASP:O	1:A:423:LYS:HE3	0.50	2.05	10	1
1:A:423:LYS:HD3	1:A:423:LYS:O	0.50	2.07	22	1
1:A:419:ASP:O	1:A:423:LYS:HD3	0.49	2.07	19	1
1:A:418:LYS:O	1:A:422:GLU:HB2	0.49	2.08	4	3
1:A:397:CYS:SG	1:A:405:CYS:HB3	0.49	2.48	17	1
1:A:419:ASP:O	1:A:423:LYS:HG3	0.49	2.08	3	1
1:A:401:LYS:HG2	1:A:405:CYS:O	0.49	2.07	8	3
1:A:404:GLY:HA2	1:A:418:LYS:HD3	0.49	1.84	17	1
1:A:379:SER:HB2	1:A:424:LEU:HD13	0.49	1.84	33	1
1:A:397:CYS:SG	1:A:407:PHE:HD2	0.48	2.30	27	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:383:LYS:HB3	1:A:416:LEU:HD21	0.48	1.85	34	1
1:A:416:LEU:C	1:A:418:LYS:H	0.48	2.17	12	1
1:A:386:ILE:HG22	1:A:400:LEU:HD13	0.48	1.84	30	1
1:A:395:LYS:O	1:A:398:GLU:HG2	0.47	2.08	34	1
1:A:394:GLN:HA	1:A:407:PHE:CD1	0.47	2.44	13	2
1:A:398:GLU:O	1:A:401:LYS:HB2	0.47	2.10	30	1
1:A:391:LYS:O	1:A:413:LYS:HA	0.47	2.10	27	1
1:A:418:LYS:HD2	1:A:418:LYS:C	0.47	2.34	28	1
1:A:394:GLN:O	1:A:398:GLU:HG2	0.46	2.10	33	4
1:A:408:ASN:HB2	1:A:415:GLU:HB2	0.46	1.85	27	1
1:A:380:ALA:O	1:A:384:GLU:HB2	0.46	2.10	30	1
1:A:403:LYS:N	1:A:403:LYS:HD2	0.46	2.26	24	3
1:A:401:LYS:HD2	1:A:405:CYS:O	0.46	2.11	35	1
1:A:418:LYS:HA	1:A:421:LYS:HB2	0.46	1.86	5	1
1:A:416:LEU:HB3	1:A:418:LYS:HE3	0.46	1.88	8	1
1:A:421:LYS:O	1:A:425:GLU:HB2	0.46	2.10	20	1
1:A:418:LYS:HE2	1:A:418:LYS:O	0.45	2.10	14	1
1:A:408:ASN:O	1:A:412:ASN:HA	0.45	2.10	29	1
1:A:401:LYS:HA	1:A:405:CYS:HB2	0.45	1.88	32	1
1:A:380:ALA:HB2	1:A:424:LEU:HG	0.45	1.88	22	1
1:A:387:CYS:O	1:A:414:CYS:HB3	0.45	2.12	4	1
1:A:407:PHE:CD2	1:A:414:CYS:SG	0.44	3.09	16	1
1:A:385:LYS:C	1:A:385:LYS:HD3	0.44	2.38	19	1
1:A:407:PHE:CD1	1:A:414:CYS:SG	0.43	3.12	20	1
1:A:407:PHE:HD1	1:A:414:CYS:SG	0.43	2.37	20	2
1:A:397:CYS:HA	1:A:400:LEU:CD1	0.43	2.44	20	2
1:A:397:CYS:HA	1:A:400:LEU:HD11	0.43	1.89	16	3
1:A:400:LEU:HD12	1:A:405:CYS:SG	0.42	2.54	11	1
1:A:392:ASP:HA	1:A:413:LYS:HA	0.42	1.90	11	1
1:A:380:ALA:HB2	1:A:421:LYS:HE2	0.42	1.91	32	1
1:A:401:LYS:C	1:A:401:LYS:HD3	0.42	2.40	20	1
1:A:422:GLU:OE2	1:A:422:GLU:HA	0.41	2.15	20	1
1:A:385:LYS:HD3	1:A:385:LYS:O	0.41	2.16	6	1
1:A:402:GLU:OE1	1:A:403:LYS:HG3	0.41	2.15	33	1
1:A:406:VAL:HB	1:A:418:LYS:HB2	0.41	1.92	13	1
1:A:383:LYS:HB3	1:A:416:LEU:HG	0.41	1.93	18	1
1:A:424:LEU:HD12	1:A:425:GLU:N	0.41	2.31	33	1
1:A:415:GLU:OE1	1:A:421:LYS:HG2	0.41	2.16	9	1
1:A:387:CYS:SG	1:A:414:CYS:HB2	0.40	2.56	27	1
1:A:418:LYS:HD3	1:A:418:LYS:C	0.40	2.41	13	1
1:A:416:LEU:HD23	1:A:418:LYS:HE3	0.40	1.92	29	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	46/73 (63%)	43±1 (94±2%)	2±1 (5±2%)	0±0 (1±1%)	23	72
All	All	1610/2555 (63%)	1514 (94%)	86 (5%)	10 (1%)	23	72

All 3 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	391	LYS	7
1	A	404	GLY	2
1	A	425	GLU	1

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	41/64 (64%)	39±1 (96±3%)	2±1 (4±3%)	28	78
All	All	1435/2240 (64%)	1375 (96%)	60 (4%)	28	78

All 22 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	401	LYS	6
1	A	409	THR	6
1	A	382	ASN	5
1	A	385	LYS	4
1	A	414	CYS	4
1	A	423	LYS	4
1	A	418	LYS	4

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Mol	Chain	Res	Type	Models (Total)
1	A	383	LYS	3
1	A	416	LEU	3
1	A	421	LYS	2
1	A	413	LYS	2
1	A	391	LYS	2
1	A	400	LEU	2
1	A	402	GLU	2
1	A	394	GLN	2
1	A	395	LYS	2
1	A	399	ASN	2
1	A	388	ASN	1
1	A	415	GLU	1
1	A	410	GLU	1
1	A	419	ASP	1
1	A	408	ASN	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 ⓘ

There are no ligands in this entry.

6.7 Other polymers ⓘ

There are no such molecules in this entry.

6.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 63% for the well-defined parts and 61% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *M1.1C_ppm.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	572
Number of shifts mapped to atoms	572
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	0	—	None (insufficient data)
$^{13}\text{C}_\beta$	0	—	None (insufficient data)
$^{13}\text{C}'$	0	—	None (insufficient data)
^{15}N	71	-1.02 ± 0.33	Should be applied

7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 63%, i.e. 377 atoms were assigned a chemical shift out of a possible 602. 0 out of 5 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	139/231 (60%)	93/93 (100%)	0/92 (0%)	46/46 (100%)
Sidechain	233/361 (65%)	226/226 (100%)	0/118 (0%)	7/17 (41%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	5/10 (50%)	5/5 (100%)	0/5 (0%)	0/0 (—%)
Overall	377/602 (63%)	324/324 (100%)	0/215 (0%)	53/63 (84%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 61%, i.e. 572 atoms were assigned a chemical shift out of a possible 934. 0 out of 5 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	216/369 (59%)	145/150 (97%)	0/146 (0%)	71/73 (97%)
Sidechain	351/555 (63%)	341/345 (99%)	0/183 (0%)	10/27 (37%)
Aromatic	5/10 (50%)	5/5 (100%)	0/5 (0%)	0/0 (—%)
Overall	572/934 (61%)	491/500 (98%)	0/334 (0%)	81/100 (81%)

7.1.4 Statistically unusual chemical shifts [i](#)

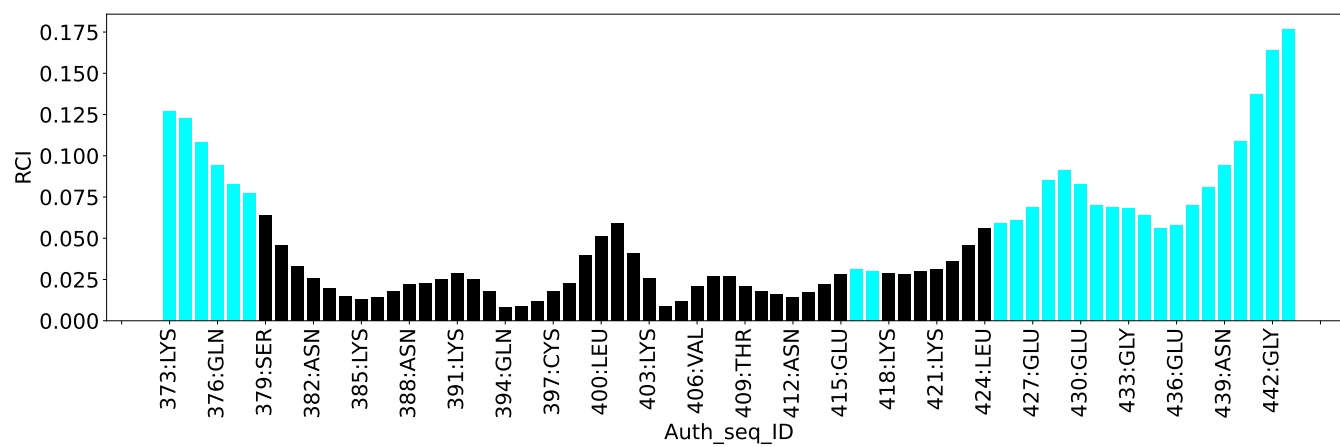
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	404	GLY	N	132.74	91.59 – 127.52	6.5

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	1265
Intra-residue ($ i-j =0$)	525
Sequential ($ i-j =1$)	315
Medium range ($ i-j >1$ and $ i-j <5$)	250
Long range ($ i-j \geq 5$)	175
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	17.3
Number of long range restraints per residue ¹	2.4

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	14.2	0.2
0.2-0.5 (Medium)	19.5	0.5
>0.5 (Large)	20.6	2.5

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 ⓘ

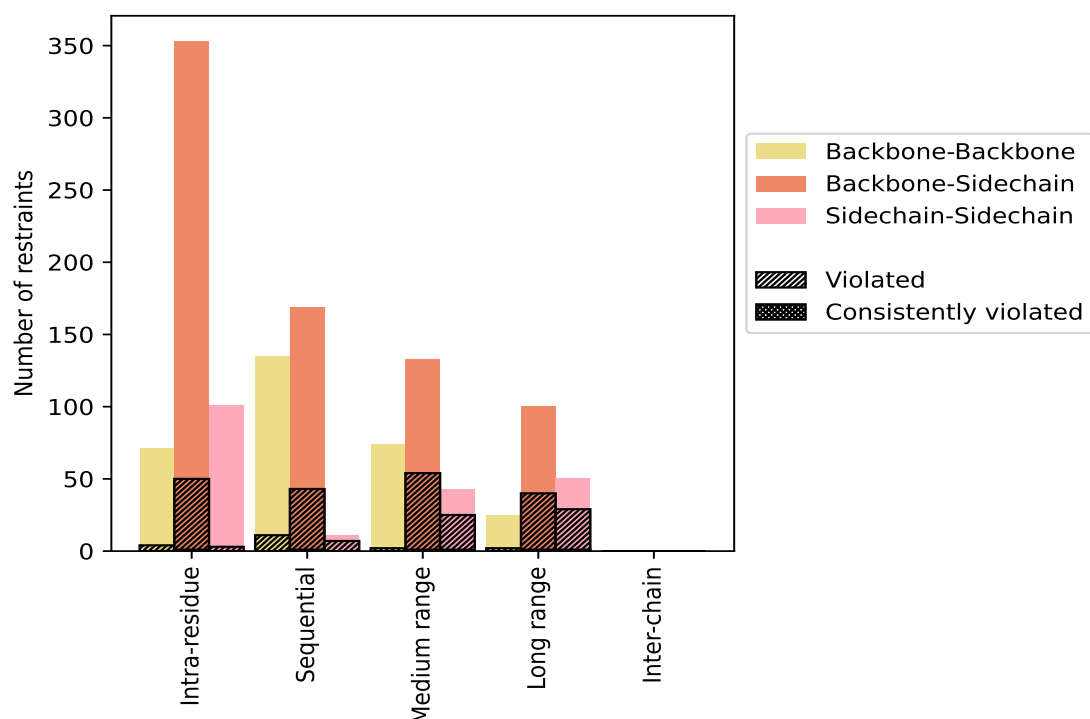
9.1 Summary of distance violations ⓘ

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.

Restraints type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	525	41.5	57	10.9	4.5	1	0.2	0.1
Backbone-Backbone	71	5.6	4	5.6	0.3	0	0.0	0.0
Backbone-Sidechain	353	27.9	50	14.2	4.0	1	0.3	0.1
Sidechain-Sidechain	101	8.0	3	3.0	0.2	0	0.0	0.0
Sequential ($i-j =1$)	315	24.9	61	19.4	4.8	1	0.3	0.1
Backbone-Backbone	135	10.7	11	8.1	0.9	0	0.0	0.0
Backbone-Sidechain	169	13.4	43	25.4	3.4	1	0.6	0.1
Sidechain-Sidechain	11	0.9	7	63.6	0.6	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	250	19.8	81	32.4	6.4	2	0.8	0.2
Backbone-Backbone	74	5.8	2	2.7	0.2	0	0.0	0.0
Backbone-Sidechain	133	10.5	54	40.6	4.3	1	0.8	0.1
Sidechain-Sidechain	43	3.4	25	58.1	2.0	1	2.3	0.1
Long range ($i-j \geq 5$)	175	13.8	71	40.6	5.6	2	1.1	0.2
Backbone-Backbone	25	2.0	2	8.0	0.2	0	0.0	0.0
Backbone-Sidechain	100	7.9	40	40.0	3.2	1	1.0	0.1
Sidechain-Sidechain	50	4.0	29	58.0	2.3	1	2.0	0.1
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	1265	100.0	270	21.3	21.3	6	0.5	0.5
Backbone-Backbone	305	24.1	19	6.2	1.5	0	0.0	0.0
Backbone-Sidechain	755	59.7	187	24.8	14.8	4	0.5	0.3
Sidechain-Sidechain	205	16.2	64	31.2	5.1	2	1.0	0.2

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	5	18	24	8	0	55	0.5	1.86	0.43	0.36
2	6	17	18	12	0	53	0.43	1.47	0.35	0.34
3	5	16	16	16	0	53	0.46	1.49	0.33	0.36
4	4	14	17	12	0	47	0.53	1.69	0.41	0.38
5	7	13	20	10	0	50	0.47	1.7	0.36	0.4
6	7	13	19	12	0	51	0.48	1.55	0.39	0.33
7	8	13	25	9	0	55	0.56	2.24	0.48	0.44
8	6	12	22	12	0	52	0.52	1.56	0.39	0.38
9	7	9	16	11	0	43	0.38	1.31	0.29	0.31
10	8	9	18	16	0	51	0.43	1.52	0.32	0.39

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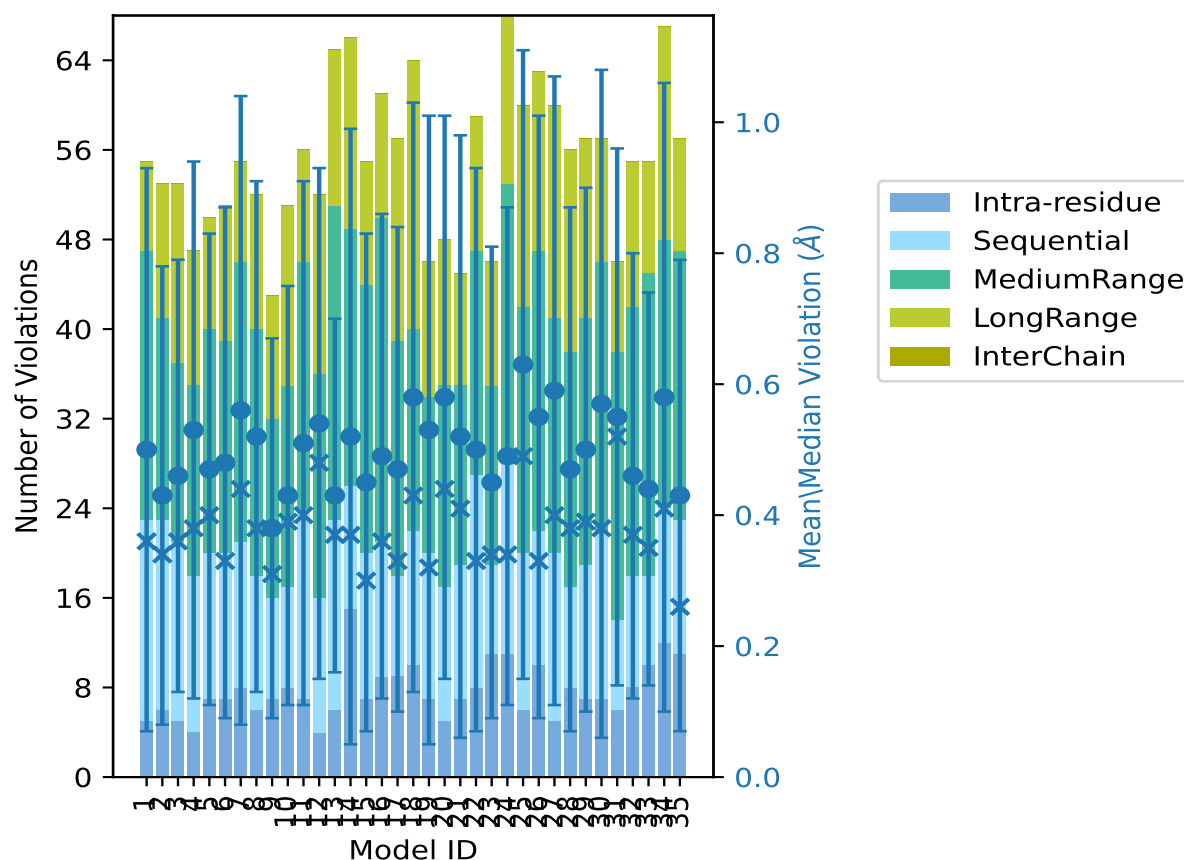
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	7	17	22	10	0	56	0.51	1.55	0.4	0.4
12	4	12	20	16	0	52	0.54	1.61	0.39	0.48
13	6	17	28	14	0	65	0.43	1.67	0.27	0.37
14	15	11	23	17	0	66	0.52	2.5	0.47	0.37
15	7	13	24	11	0	55	0.45	1.69	0.38	0.3
16	9	12	29	11	0	61	0.49	1.72	0.37	0.36
17	9	9	21	18	0	57	0.47	1.5	0.37	0.33
18	10	12	18	24	0	64	0.58	2.01	0.45	0.43
19	7	13	14	12	0	46	0.53	2.28	0.48	0.32
20	5	12	18	13	0	48	0.58	1.44	0.43	0.44
21	7	12	16	10	0	45	0.52	2.43	0.46	0.41
22	8	19	20	12	0	59	0.5	1.95	0.43	0.33
23	11	8	16	11	0	46	0.45	1.46	0.36	0.34
24	11	18	24	15	0	68	0.49	2.06	0.38	0.34
25	6	14	22	18	0	60	0.63	2.16	0.48	0.49
26	10	12	25	16	0	63	0.55	1.96	0.46	0.33
27	5	15	21	19	0	60	0.59	1.85	0.48	0.4
28	8	9	21	18	0	56	0.47	1.77	0.4	0.38
29	7	12	22	16	0	57	0.5	1.73	0.4	0.39
30	7	15	24	11	0	57	0.57	2.29	0.51	0.38
31	6	8	24	8	0	46	0.55	2.1	0.41	0.52
32	8	10	24	13	0	55	0.46	1.62	0.34	0.37
33	10	8	27	10	0	55	0.44	1.35	0.3	0.35
34	12	12	24	19	0	67	0.58	2.24	0.48	0.41
35	11	12	24	10	0	57	0.43	1.58	0.36	0.26

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

⁵Inter-chain restraints, ⁶Standard deviation

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



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

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

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 995(IR:468, SQ:254, MR:169, LR:104, IC:0) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
19	15	17	17	0	68	1	2.9
11	10	9	7	0	37	2	5.7
5	4	9	6	0	24	3	8.6
5	4	2	7	0	18	4	11.4
1	4	5	10	0	20	5	14.3
3	1	4	3	0	11	6	17.1

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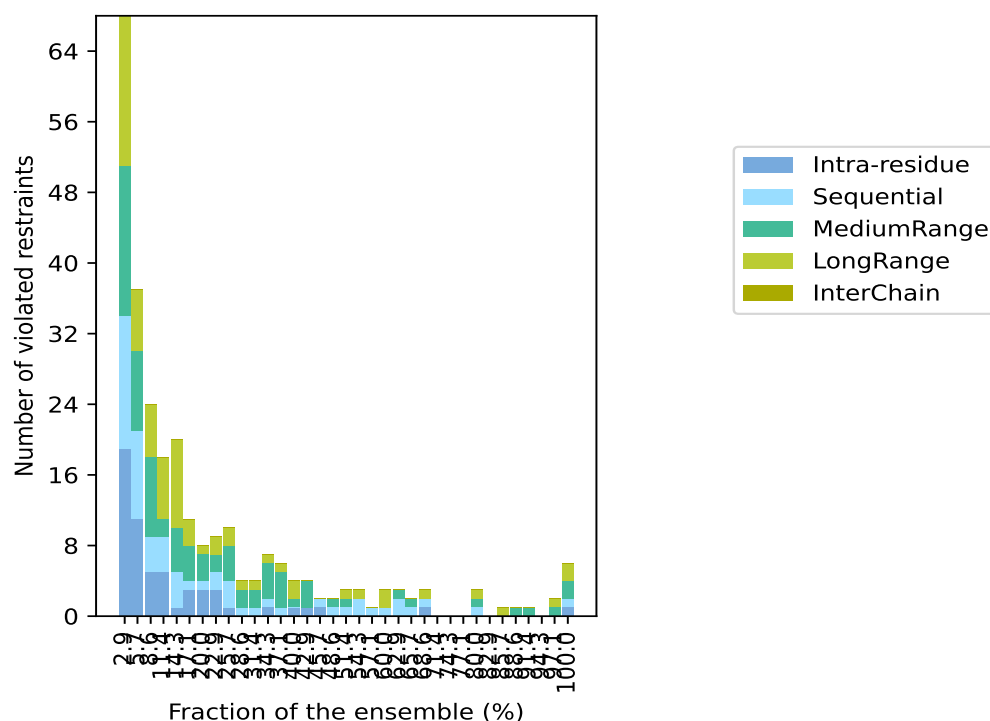
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
3	1	3	1	0	8	7	20.0
3	2	2	2	0	9	8	22.9
1	3	4	2	0	10	9	25.7
0	1	2	1	0	4	10	28.6
0	1	2	1	0	4	11	31.4
1	1	4	1	0	7	12	34.3
0	1	4	1	0	6	13	37.1
1	0	1	2	0	4	14	40.0
1	0	3	0	0	4	15	42.9
1	1	0	0	0	2	16	45.7
0	1	1	0	0	2	17	48.6
0	1	1	1	0	3	18	51.4
0	2	0	1	0	3	19	54.3
0	1	0	0	0	1	20	57.1
0	1	0	2	0	3	21	60.0
0	2	1	0	0	3	22	62.9
0	1	1	0	0	2	23	65.7
1	1	0	1	0	3	24	68.6
0	0	0	0	0	0	25	71.4
0	0	0	0	0	0	26	74.3
0	0	0	0	0	0	27	77.1
0	1	1	1	0	3	28	80.0
0	0	0	0	0	0	29	82.9
0	0	0	1	0	1	30	85.7
0	0	1	0	0	1	31	88.6
0	0	1	0	0	1	32	91.4
0	0	0	0	0	0	33	94.3
0	0	1	1	0	2	34	97.1
1	1	2	2	0	6	35	100.0

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

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

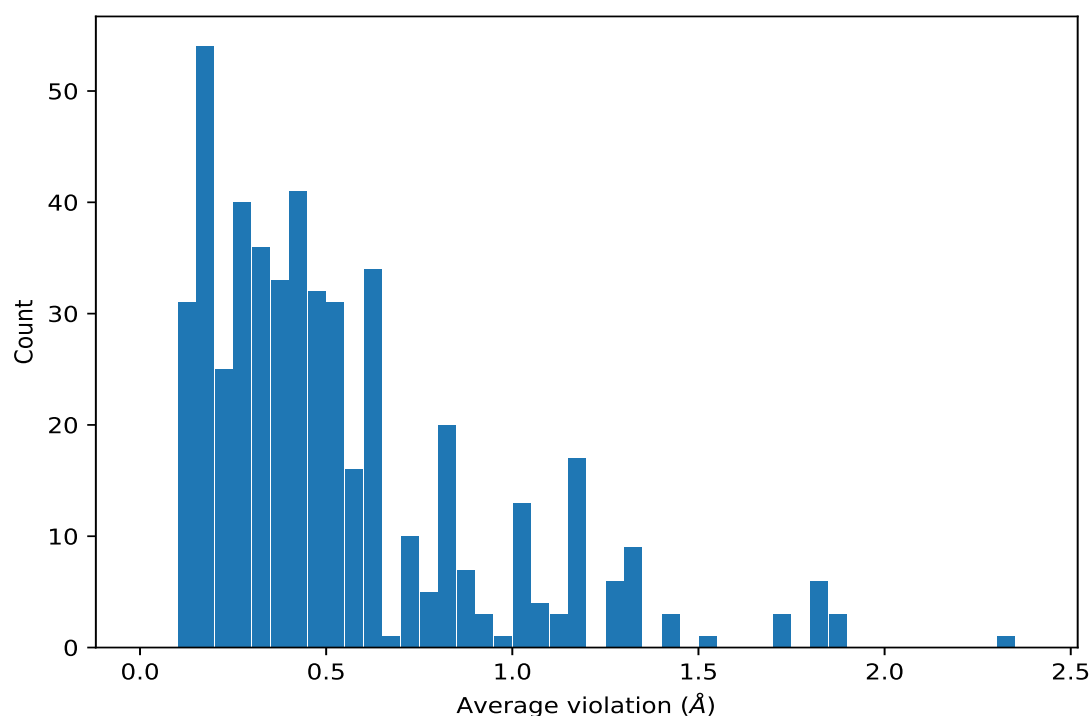
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	35	1.03	0.31	1.12
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB2	35	1.03	0.31	1.12
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	35	0.93	0.29	0.93
(1,1248)	1:407:A:PHE:HB2	1:409:A:THR:HG22	35	0.93	0.29	0.93
(1,1248)	1:407:A:PHE:HB2	1:409:A:THR:HG21	35	0.93	0.29	0.93
(1,1140)	1:390:A:ALA:HB2	1:415:A:GLU:H	35	0.73	0.33	0.65
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	35	0.73	0.33	0.65
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	35	0.73	0.33	0.65
(1,1140)	1:394:A:GLN:HB3	1:407:A:PHE:H	35	0.73	0.33	0.65
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	35	0.55	0.05	0.55
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	35	0.46	0.19	0.43
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	35	0.46	0.19	0.43
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	35	0.17	0.03	0.17
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	35	0.17	0.03	0.17
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD2	34	1.34	0.18	1.35
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB2	34	1.34	0.18	1.35

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD3	34	1.34	0.18	1.35
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	34	1.34	0.18	1.35
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB1	34	1.34	0.18	1.35
(1,1229)	1:407:A:PHE:H	1:409:A:THR:HG22	34	1.34	0.18	1.35
(1,1229)	1:407:A:PHE:H	1:409:A:THR:HG21	34	1.34	0.18	1.35
(1,1229)	1:407:A:PHE:H	1:409:A:THR:HG23	34	1.34	0.18	1.35
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	34	1.03	0.37	1.01
(1,1050)	1:382:A:ASN:HD22	1:384:A:GLU:HB3	34	1.03	0.37	1.01
(1,1050)	1:382:A:ASN:HD22	1:384:A:GLU:HB2	34	1.03	0.37	1.01
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	32	0.46	0.11	0.48
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	31	0.31	0.1	0.31
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG21	30	0.53	0.26	0.46
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB2	30	0.53	0.26	0.46
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB1	30	0.53	0.26	0.46
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG22	30	0.53	0.26	0.46
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	30	0.53	0.26	0.46
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG23	30	0.53	0.26	0.46
(1,1243)	1:418:A:LYS:HE3	1:416:A:LEU:HD12	28	1.18	0.4	1.22
(1,1243)	1:383:A:LYS:HE3	1:416:A:LEU:HD12	28	1.18	0.4	1.22
(1,1243)	1:383:A:LYS:HE3	1:416:A:LEU:HD13	28	1.18	0.4	1.22
(1,1243)	1:403:A:LYS:HE3	1:400:A:LEU:HD21	28	1.18	0.4	1.22
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD23	28	1.18	0.4	1.22
(1,1243)	1:418:A:LYS:HE3	1:416:A:LEU:HD13	28	1.18	0.4	1.22
(1,1243)	1:383:A:LYS:HE2	1:416:A:LEU:HD13	28	1.18	0.4	1.22
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD21	28	1.18	0.4	1.22
(1,1243)	1:383:A:LYS:HE2	1:416:A:LEU:HD12	28	1.18	0.4	1.22
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD22	28	1.18	0.4	1.22
(1,1243)	1:403:A:LYS:HE3	1:400:A:LEU:HD23	28	1.18	0.4	1.22
(1,1243)	1:383:A:LYS:HE3	1:416:A:LEU:HD11	28	1.18	0.4	1.22
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	28	0.31	0.1	0.32
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	28	0.15	0.03	0.15
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE3	24	0.6	0.25	0.57
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE2	24	0.6	0.25	0.57
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE3	24	0.6	0.25	0.57
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE2	24	0.6	0.25	0.57
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	24	0.42	0.2	0.42
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	24	0.41	0.16	0.44
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	24	0.41	0.16	0.44
(1,1238)	1:420:A:VAL:HG13	1:421:A:LYS:HG3	23	0.52	0.27	0.45
(1,1238)	1:420:A:VAL:HG12	1:421:A:LYS:HG3	23	0.52	0.27	0.45
(1,1238)	1:420:A:VAL:HG12	1:423:A:LYS:HG3	23	0.52	0.27	0.45
(1,1238)	1:420:A:VAL:HG11	1:423:A:LYS:HG3	23	0.52	0.27	0.45

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1238)	1:420:A:VAL:HG13	1:423:A:LYS:HG3	23	0.52	0.27	0.45
(1,1238)	1:420:A:VAL:HG11	1:421:A:LYS:HG3	23	0.52	0.27	0.45
(1,1238)	1:420:A:VAL:HG12	1:421:A:LYS:HG2	23	0.52	0.27	0.45
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	23	0.4	0.25	0.31
(1,1159)	1:436:A:GLU:HA	1:438:A:ALA:HB3	23	0.4	0.25	0.31
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG2	23	0.4	0.25	0.31
(1,1159)	1:431:A:THR:HB	1:434:A:LYS:HG2	23	0.4	0.25	0.31
(1,1159)	1:425:A:GLU:HA	1:421:A:LYS:HG2	23	0.4	0.25	0.31
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD3	22	0.59	0.24	0.59
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD2	22	0.59	0.24	0.59
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG22	22	0.59	0.24	0.59
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG21	22	0.59	0.24	0.59
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG23	22	0.59	0.24	0.59
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	22	0.34	0.15	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	22	0.34	0.15	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	22	0.34	0.15	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD11	22	0.34	0.15	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD12	22	0.34	0.15	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD13	22	0.34	0.15	0.36
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	22	0.17	0.03	0.18
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	21	0.85	0.22	0.8
(1,1002)	1:404:A:GLY:H	1:417:A:LYS:HD3	21	0.85	0.22	0.8
(1,1002)	1:404:A:GLY:H	1:416:A:LEU:HB2	21	0.85	0.22	0.8
(1,1002)	1:404:A:GLY:H	1:417:A:LYS:HD2	21	0.85	0.22	0.8
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	21	0.76	0.04	0.77
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG3	21	0.76	0.04	0.77
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	21	0.49	0.31	0.41
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	20	0.12	0.02	0.11
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD2	19	0.75	0.33	0.75
(1,1032)	1:419:A:ASP:H	1:417:A:LYS:HD2	19	0.75	0.33	0.75
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	19	0.75	0.33	0.75
(1,1142)	1:416:A:LEU:HD12	1:418:A:LYS:HE3	19	0.64	0.28	0.58
(1,1142)	1:386:A:ILE:HG22	1:403:A:LYS:HE3	19	0.64	0.28	0.58
(1,1142)	1:416:A:LEU:HD13	1:383:A:LYS:HE2	19	0.64	0.28	0.58
(1,1142)	1:386:A:ILE:HG21	1:403:A:LYS:HE2	19	0.64	0.28	0.58
(1,1142)	1:386:A:ILE:HG21	1:403:A:LYS:HE3	19	0.64	0.28	0.58
(1,1142)	1:386:A:ILE:HG22	1:403:A:LYS:HE2	19	0.64	0.28	0.58
(1,1142)	1:416:A:LEU:HD12	1:383:A:LYS:HE2	19	0.64	0.28	0.58
(1,1142)	1:416:A:LEU:HD13	1:418:A:LYS:HE3	19	0.64	0.28	0.58
(1,1142)	1:386:A:ILE:HG23	1:403:A:LYS:HE3	19	0.64	0.28	0.58
(1,1142)	1:386:A:ILE:HG23	1:403:A:LYS:HE2	19	0.64	0.28	0.58
(1,1142)	1:420:A:VAL:HG13	1:421:A:LYS:HE2	19	0.64	0.28	0.58

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1142)	1:420:A:VAL:HG22	1:423:A:LYS:HE2	19	0.64	0.28	0.58
(1,1139)	1:433:A:GLY:HA2	1:435:A:ASP:H	19	0.37	0.09	0.4
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	19	0.37	0.09	0.4
(1,1139)	1:433:A:GLY:HA3	1:435:A:ASP:H	19	0.37	0.09	0.4
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG2	18	0.51	0.23	0.55
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	18	0.51	0.23	0.55
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	18	0.42	0.19	0.45
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD3	18	0.42	0.19	0.45
(1,1079)	1:386:A:ILE:HG12	1:383:A:LYS:HG3	18	0.35	0.23	0.31
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	18	0.35	0.23	0.31
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	17	1.54	0.29	1.63
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	17	0.16	0.04	0.16
(1,1129)	1:384:A:GLU:HB3	1:383:A:LYS:H	17	0.16	0.04	0.16
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	16	0.88	0.35	0.88
(1,1186)	1:378:A:GLU:HG2	1:377:A:THR:HB	16	0.88	0.35	0.88
(1,1186)	1:425:A:GLU:HG2	1:423:A:LYS:HA	16	0.88	0.35	0.88
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	16	0.15	0.05	0.13
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	15	0.36	0.15	0.36
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD2	15	0.36	0.15	0.36
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	15	0.32	0.11	0.31
(1,814)	1:417:A:LYS:HD2	1:419:A:ASP:H	15	0.32	0.11	0.31
(1,1080)	1:417:A:LYS:HA	1:417:A:LYS:H	15	0.18	0.04	0.18
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	15	0.18	0.04	0.18
(1,1080)	1:417:A:LYS:HA	1:418:A:LYS:H	15	0.18	0.04	0.18
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	15	0.14	0.04	0.13
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	14	0.48	0.07	0.5
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	14	0.42	0.18	0.44
(1,1110)	1:390:A:ALA:HB2	1:414:A:CYS:H	14	0.36	0.14	0.38
(1,1110)	1:390:A:ALA:HB1	1:414:A:CYS:H	14	0.36	0.14	0.38
(1,1110)	1:429:A:LYS:HG3	1:430:A:GLU:H	14	0.36	0.14	0.38
(1,1110)	1:390:A:ALA:HB3	1:414:A:CYS:H	14	0.36	0.14	0.38
(1,1110)	1:429:A:LYS:HG2	1:430:A:GLU:H	14	0.36	0.14	0.38
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	14	0.19	0.09	0.16
(1,755)	1:384:A:GLU:HG3	1:388:A:ASN:HD22	14	0.19	0.09	0.16
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG21	13	0.8	0.41	0.71
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG22	13	0.8	0.41	0.71
(1,1241)	1:385:A:LYS:HD2	1:386:A:ILE:HG22	13	0.8	0.41	0.71
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG23	13	0.8	0.41	0.71
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB3	13	0.8	0.21	0.81
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB2	13	0.8	0.21	0.81
(1,1046)	1:399:A:ASN:HD22	1:395:A:LYS:HG2	13	0.8	0.21	0.81
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB1	13	0.8	0.21	0.81

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1244)	1:403:A:LYS:HE2	1:386:A:ILE:HD11	13	0.42	0.3	0.32
(1,1244)	1:383:A:LYS:HE3	1:386:A:ILE:HD12	13	0.42	0.3	0.32
(1,1244)	1:403:A:LYS:HE2	1:386:A:ILE:HD13	13	0.42	0.3	0.32
(1,1244)	1:383:A:LYS:HE2	1:386:A:ILE:HD12	13	0.42	0.3	0.32
(1,1244)	1:383:A:LYS:HE3	1:386:A:ILE:HD13	13	0.42	0.3	0.32
(1,1244)	1:403:A:LYS:HE3	1:386:A:ILE:HD13	13	0.42	0.3	0.32
(1,1244)	1:403:A:LYS:HE2	1:386:A:ILE:HD12	13	0.42	0.3	0.32
(1,1244)	1:383:A:LYS:HE2	1:386:A:ILE:HD11	13	0.42	0.3	0.32
(1,1244)	1:383:A:LYS:HE2	1:386:A:ILE:HD13	13	0.42	0.3	0.32
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	13	0.28	0.11	0.3
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD2	13	0.28	0.11	0.3
(1,806)	1:417:A:LYS:HG3	1:419:A:ASP:H	13	0.25	0.14	0.22
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	13	0.25	0.14	0.22
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	13	0.12	0.02	0.12
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	13	0.12	0.02	0.12
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	12	1.01	0.4	1.13
(1,1150)	1:418:A:LYS:HA	1:422:A:GLU:HG2	12	1.01	0.4	1.13
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	12	0.64	0.37	0.54
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	12	0.64	0.37	0.54
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	12	0.64	0.37	0.54
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD3	12	0.56	0.15	0.56
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD2	12	0.56	0.15	0.56
(1,1137)	1:421:A:LYS:HB3	1:419:A:ASP:H	12	0.36	0.15	0.36
(1,1137)	1:417:A:LYS:HB3	1:419:A:ASP:H	12	0.36	0.15	0.36
(1,1228)	1:407:A:PHE:HZ	1:394:A:GLN:HB3	12	0.33	0.13	0.38
(1,1228)	1:407:A:PHE:HZ	1:409:A:THR:HG22	12	0.33	0.13	0.38
(1,1228)	1:407:A:PHE:HZ	1:409:A:THR:HG23	12	0.33	0.13	0.38
(1,1228)	1:407:A:PHE:HZ	1:409:A:THR:HG21	12	0.33	0.13	0.38
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	12	0.25	0.06	0.27
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB3	12	0.25	0.06	0.27
(1,700)	1:427:A:GLU:HG3	1:427:A:GLU:H	12	0.25	0.13	0.2
(1,700)	1:427:A:GLU:HG2	1:427:A:GLU:H	12	0.25	0.13	0.2
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	11	1.06	0.48	1.17
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD3	11	0.45	0.22	0.38
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD2	11	0.45	0.22	0.38
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG22	11	0.42	0.15	0.46
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG21	11	0.42	0.15	0.46
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG23	11	0.42	0.15	0.46
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	11	0.17	0.06	0.16
(1,1017)	1:382:A:ASN:H	1:416:A:LEU:HD23	11	0.17	0.06	0.16
(1,1177)	1:404:A:GLY:HA3	1:416:A:LEU:HD11	10	1.15	0.78	0.99
(1,1177)	1:424:A:LEU:HA	1:420:A:VAL:HG13	10	1.15	0.78	0.99

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1177)	1:404:A:GLY:HA3	1:416:A:LEU:HD12	10	1.15	0.78	0.99
(1,1177)	1:424:A:LEU:HA	1:420:A:VAL:HG12	10	1.15	0.78	0.99
(1,1177)	1:424:A:LEU:HA	1:420:A:VAL:HG11	10	1.15	0.78	0.99
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG2	10	0.51	0.2	0.51
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG3	10	0.51	0.2	0.51
(1,1141)	1:386:A:ILE:HD11	1:403:A:LYS:HE2	10	0.49	0.31	0.38
(1,1141)	1:386:A:ILE:HD13	1:403:A:LYS:HE2	10	0.49	0.31	0.38
(1,1141)	1:386:A:ILE:HD12	1:383:A:LYS:HE2	10	0.49	0.31	0.38
(1,1141)	1:386:A:ILE:HD13	1:403:A:LYS:HE3	10	0.49	0.31	0.38
(1,1141)	1:386:A:ILE:HD12	1:403:A:LYS:HE2	10	0.49	0.31	0.38
(1,1141)	1:386:A:ILE:HD11	1:383:A:LYS:HE2	10	0.49	0.31	0.38
(1,1141)	1:386:A:ILE:HD13	1:383:A:LYS:HE2	10	0.49	0.31	0.38
(1,1141)	1:386:A:ILE:HD13	1:383:A:LYS:HE3	10	0.49	0.31	0.38
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE3	10	0.39	0.12	0.4
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE2	10	0.39	0.12	0.4
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	9	0.96	0.41	1.0
(1,1194)	1:438:A:ALA:HB1	1:437:A:LYS:HA	9	0.64	0.38	0.56
(1,1194)	1:438:A:ALA:HB3	1:437:A:LYS:HA	9	0.64	0.38	0.56
(1,1194)	1:438:A:ALA:HB2	1:437:A:LYS:HA	9	0.64	0.38	0.56
(1,1194)	1:421:A:LYS:HG2	1:425:A:GLU:HA	9	0.64	0.38	0.56
(1,1194)	1:434:A:LYS:HG3	1:436:A:GLU:HA	9	0.64	0.38	0.56
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE2	9	0.52	0.1	0.48
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE3	9	0.52	0.1	0.48
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB3	9	0.49	0.19	0.53
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB2	9	0.49	0.19	0.53
(1,533)	1:384:A:GLU:HG2	1:416:A:LEU:HD21	9	0.42	0.44	0.25
(1,533)	1:384:A:GLU:HG2	1:416:A:LEU:HD22	9	0.42	0.44	0.25
(1,533)	1:384:A:GLU:HG2	1:416:A:LEU:HD23	9	0.42	0.44	0.25
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD21	9	0.42	0.44	0.25
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD22	9	0.42	0.44	0.25
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD23	9	0.42	0.44	0.25
(1,1192)	1:384:A:GLU:HG2	1:381:A:GLU:HA	9	0.37	0.2	0.34
(1,1192)	1:384:A:GLU:HG3	1:381:A:GLU:HA	9	0.37	0.2	0.34
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD13	9	0.35	0.14	0.39
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD11	9	0.35	0.14	0.39
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD12	9	0.35	0.14	0.39
(1,1049)	1:382:A:ASN:HD21	1:416:A:LEU:HD22	9	0.35	0.14	0.39
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	9	0.34	0.34	0.17
(1,1209)	1:430:A:GLU:H	1:429:A:LYS:HG3	9	0.25	0.08	0.27
(1,1209)	1:430:A:GLU:H	1:429:A:LYS:HG2	9	0.25	0.08	0.27
(1,1209)	1:414:A:CYS:H	1:390:A:ALA:HB3	9	0.25	0.08	0.27
(1,1209)	1:414:A:CYS:H	1:390:A:ALA:HB2	9	0.25	0.08	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1209)	1:414:A:CYS:H	1:390:A:ALA:HB1	9	0.25	0.08	0.27
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	9	0.12	0.01	0.12
(1,372)	1:429:A:LYS:H	1:430:A:GLU:HB3	8	0.54	0.22	0.6
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG11	8	0.46	0.23	0.41
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG12	8	0.46	0.23	0.41
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG13	8	0.46	0.23	0.41
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG21	8	0.46	0.23	0.41
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG22	8	0.46	0.23	0.41
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG23	8	0.46	0.23	0.41
(1,1057)	1:425:A:GLU:H	1:421:A:LYS:HB2	8	0.37	0.17	0.34
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG3	8	0.3	0.03	0.3
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG2	8	0.3	0.03	0.3
(1,530)	1:406:A:VAL:HG11	1:417:A:LYS:HA	8	0.27	0.06	0.25
(1,530)	1:406:A:VAL:HG12	1:417:A:LYS:HA	8	0.27	0.06	0.25
(1,530)	1:406:A:VAL:HG13	1:417:A:LYS:HA	8	0.27	0.06	0.25
(1,530)	1:406:A:VAL:HG21	1:417:A:LYS:HA	8	0.27	0.06	0.25
(1,530)	1:406:A:VAL:HG22	1:417:A:LYS:HA	8	0.27	0.06	0.25
(1,530)	1:406:A:VAL:HG23	1:417:A:LYS:HA	8	0.27	0.06	0.25
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB2	8	0.2	0.08	0.18
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB3	8	0.2	0.08	0.18
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE3	8	0.2	0.07	0.18
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE2	8	0.2	0.07	0.18
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE2	8	0.18	0.05	0.16
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE3	8	0.18	0.05	0.16
(1,1111)	1:418:A:LYS:HG3	1:418:A:LYS:H	8	0.12	0.02	0.12
(1,1111)	1:418:A:LYS:HG2	1:418:A:LYS:H	8	0.12	0.02	0.12
(1,1234)	1:400:A:LEU:HD22	1:396:A:ALA:HB2	7	1.84	0.72	2.06
(1,1234)	1:400:A:LEU:HD23	1:390:A:ALA:HB1	7	1.84	0.72	2.06
(1,1234)	1:400:A:LEU:HD21	1:390:A:ALA:HB3	7	1.84	0.72	2.06
(1,1234)	1:400:A:LEU:HD21	1:390:A:ALA:HB1	7	1.84	0.72	2.06
(1,1234)	1:400:A:LEU:HD23	1:390:A:ALA:HB2	7	1.84	0.72	2.06
(1,1234)	1:400:A:LEU:HD22	1:390:A:ALA:HB1	7	1.84	0.72	2.06
(1,1067)	1:384:A:GLU:HG3	1:380:A:ALA:HB1	7	0.45	0.28	0.38
(1,1067)	1:408:A:ASN:HB2	1:413:A:LYS:HD3	7	0.45	0.28	0.38
(1,1067)	1:402:A:GLU:HG3	1:403:A:LYS:HG3	7	0.45	0.28	0.38
(1,1067)	1:408:A:ASN:HB2	1:413:A:LYS:HD2	7	0.45	0.28	0.38
(1,1067)	1:402:A:GLU:HG2	1:403:A:LYS:HG3	7	0.45	0.28	0.38
(1,308)	1:418:A:LYS:H	1:415:A:GLU:HB3	7	0.44	0.19	0.48
(1,839)	1:395:A:LYS:HB3	1:393:A:ASN:HD22	7	0.36	0.1	0.37
(1,839)	1:395:A:LYS:HB2	1:393:A:ASN:HD22	7	0.36	0.1	0.37
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD11	7	0.3	0.04	0.29
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD12	7	0.3	0.04	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD13	7	0.3	0.04	0.29
(1,661)	1:376:A:GLN:HA	1:377:A:THR:H	7	0.19	0.04	0.2
(1,858)	1:417:A:LYS:HA	1:417:A:LYS:HG2	7	0.14	0.03	0.13
(1,858)	1:417:A:LYS:HA	1:417:A:LYS:HG3	7	0.14	0.03	0.13
(1,1082)	1:426:A:LYS:HA	1:426:A:LYS:H	7	0.12	0.02	0.12
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD21	6	1.71	0.32	1.68
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD22	6	1.71	0.32	1.68
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD23	6	1.71	0.32	1.68
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD21	6	1.14	0.42	1.08
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD22	6	1.14	0.42	1.08
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD23	6	1.14	0.42	1.08
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD21	6	1.04	0.33	0.97
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD22	6	1.04	0.33	0.97
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD23	6	1.04	0.33	0.97
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD11	6	0.83	0.37	0.74
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD12	6	0.83	0.37	0.74
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD13	6	0.83	0.37	0.74
(1,1149)	1:397:A:CYS:HB2	1:396:A:ALA:HB1	6	0.8	0.08	0.79
(1,1149)	1:397:A:CYS:HB2	1:390:A:ALA:HB1	6	0.8	0.08	0.79
(1,1149)	1:397:A:CYS:HB2	1:396:A:ALA:HB3	6	0.8	0.08	0.79
(1,1149)	1:397:A:CYS:HB2	1:390:A:ALA:HB3	6	0.8	0.08	0.79
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD21	6	0.58	0.16	0.54
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD22	6	0.58	0.16	0.54
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD23	6	0.58	0.16	0.54
(1,196)	1:385:A:LYS:H	1:385:A:LYS:HD2	6	0.22	0.06	0.23
(1,928)	1:423:A:LYS:HG3	1:423:A:LYS:HA	6	0.2	0.02	0.21
(1,626)	1:432:A:GLU:HA	1:433:A:GLY:H	6	0.2	0.09	0.16
(1,1040)	1:429:A:LYS:H	1:426:A:LYS:HA	6	0.19	0.09	0.14
(1,1040)	1:429:A:LYS:H	1:425:A:GLU:HA	6	0.19	0.09	0.14
(1,1210)	1:418:A:LYS:H	1:418:A:LYS:HG2	6	0.13	0.02	0.12
(1,1210)	1:418:A:LYS:H	1:418:A:LYS:HG3	6	0.13	0.02	0.12
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD11	5	1.88	0.08	1.85
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD12	5	1.88	0.08	1.85
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD13	5	1.88	0.08	1.85
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD11	5	1.43	0.18	1.4
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD12	5	1.43	0.18	1.4
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD13	5	1.43	0.18	1.4
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD21	5	1.27	0.29	1.18
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD22	5	1.27	0.29	1.18
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD23	5	1.27	0.29	1.18
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD11	5	1.26	0.08	1.29
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD12	5	1.26	0.08	1.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD13	5	1.26	0.08	1.29
(1,642)	1:416:A:LEU:HD11	1:417:A:LYS:H	5	1.07	0.12	1.03
(1,642)	1:416:A:LEU:HD12	1:417:A:LYS:H	5	1.07	0.12	1.03
(1,642)	1:416:A:LEU:HD13	1:417:A:LYS:H	5	1.07	0.12	1.03
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD11	5	1.0	0.02	1.01
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD12	5	1.0	0.02	1.01
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD13	5	1.0	0.02	1.01
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD21	5	0.7	0.28	0.57
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD22	5	0.7	0.28	0.57
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD23	5	0.7	0.28	0.57
(1,1236)	1:386:A:ILE:HG21	1:403:A:LYS:HD2	5	0.57	0.37	0.49
(1,1236)	1:386:A:ILE:HG23	1:403:A:LYS:HD2	5	0.57	0.37	0.49
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD1	5	0.55	0.11	0.52
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD2	5	0.55	0.11	0.52
(1,155)	1:395:A:LYS:H	1:393:A:ASN:HD22	5	0.51	0.15	0.55
(1,447)	1:382:A:ASN:HD22	1:378:A:GLU:HG2	5	0.41	0.06	0.43
(1,447)	1:382:A:ASN:HD22	1:378:A:GLU:HG3	5	0.41	0.06	0.43
(1,416)	1:388:A:ASN:HD21	1:413:A:LYS:HG3	5	0.32	0.11	0.27
(1,416)	1:388:A:ASN:HD21	1:413:A:LYS:HG2	5	0.32	0.11	0.27
(1,409)	1:388:A:ASN:HD21	1:415:A:GLU:HG3	5	0.32	0.14	0.26
(1,409)	1:388:A:ASN:HD21	1:415:A:GLU:HG2	5	0.32	0.14	0.26
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD11	5	0.26	0.1	0.28
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD12	5	0.26	0.1	0.28
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD13	5	0.26	0.1	0.28
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD21	5	0.26	0.1	0.28
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD22	5	0.26	0.1	0.28
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD23	5	0.26	0.1	0.28
(1,1042)	1:388:A:ASN:HD22	1:413:A:LYS:HB2	5	0.23	0.1	0.16
(1,815)	1:400:A:LEU:HD11	1:401:A:LYS:H	5	0.2	0.04	0.21
(1,815)	1:400:A:LEU:HD12	1:401:A:LYS:H	5	0.2	0.04	0.21
(1,815)	1:400:A:LEU:HD13	1:401:A:LYS:H	5	0.2	0.04	0.21
(1,229)	1:379:A:SER:H	1:382:A:ASN:HB3	5	0.19	0.06	0.19
(1,1103)	1:396:A:ALA:HB1	1:393:A:ASN:H	5	0.19	0.05	0.16
(1,1103)	1:437:A:LYS:HG3	1:438:A:ALA:H	5	0.19	0.05	0.16
(1,1103)	1:390:A:ALA:HB2	1:393:A:ASN:H	5	0.19	0.05	0.16
(1,1103)	1:396:A:ALA:HB3	1:393:A:ASN:H	5	0.19	0.05	0.16
(1,267)	1:412:A:ASN:H	1:408:A:ASN:HD21	5	0.16	0.03	0.15
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD11	5	0.15	0.08	0.12
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD12	5	0.15	0.08	0.12
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD13	5	0.15	0.08	0.12
(1,728)	1:416:A:LEU:HD21	1:384:A:GLU:H	4	0.82	0.16	0.82
(1,728)	1:416:A:LEU:HD22	1:384:A:GLU:H	4	0.82	0.16	0.82

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,728)	1:416:A:LEU:HD23	1:384:A:GLU:H	4	0.82	0.16	0.82
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD21	4	0.61	0.25	0.57
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD22	4	0.61	0.25	0.57
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD23	4	0.61	0.25	0.57
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD21	4	0.61	0.25	0.57
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD22	4	0.61	0.25	0.57
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD23	4	0.61	0.25	0.57
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD21	4	0.61	0.25	0.57
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD22	4	0.61	0.25	0.57
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD23	4	0.61	0.25	0.57
(1,508)	1:416:A:LEU:HD21	1:384:A:GLU:HA	4	0.51	0.1	0.54
(1,508)	1:416:A:LEU:HD22	1:384:A:GLU:HA	4	0.51	0.1	0.54
(1,508)	1:416:A:LEU:HD23	1:384:A:GLU:HA	4	0.51	0.1	0.54
(1,305)	1:418:A:LYS:H	1:418:A:LYS:HE2	4	0.5	0.1	0.56
(1,305)	1:418:A:LYS:H	1:418:A:LYS:HE3	4	0.5	0.1	0.56
(1,835)	1:392:A:ASP:HB3	1:412:A:ASN:HD22	4	0.48	0.31	0.38
(1,287)	1:416:A:LEU:H	1:415:A:GLU:HG2	4	0.41	0.15	0.46
(1,287)	1:416:A:LEU:H	1:415:A:GLU:HG3	4	0.41	0.15	0.46
(1,1237)	1:386:A:ILE:HD12	1:403:A:LYS:HB3	4	0.38	0.14	0.43
(1,1237)	1:386:A:ILE:HD13	1:403:A:LYS:HB3	4	0.38	0.14	0.43
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD11	4	0.34	0.13	0.3
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD12	4	0.34	0.13	0.3
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD13	4	0.34	0.13	0.3
(1,134)	1:397:A:CYS:H	1:414:A:CYS:HB2	4	0.32	0.04	0.32
(1,312)	1:420:A:VAL:H	1:417:A:LYS:HG3	4	0.3	0.08	0.29
(1,312)	1:420:A:VAL:H	1:417:A:LYS:HG2	4	0.3	0.08	0.29
(1,566)	1:379:A:SER:HA	1:379:A:SER:HB3	4	0.23	0.0	0.23
(1,1078)	1:407:A:PHE:HB3	1:397:A:CYS:HB2	4	0.21	0.09	0.17
(1,1078)	1:393:A:ASN:HB3	1:397:A:CYS:HB2	4	0.21	0.09	0.17
(1,1217)	1:417:A:LYS:H	1:417:A:LYS:HG2	4	0.2	0.04	0.19
(1,1217)	1:417:A:LYS:H	1:417:A:LYS:HG3	4	0.2	0.04	0.19
(1,474)	1:426:A:LYS:H	1:425:A:GLU:HB2	4	0.2	0.09	0.18
(1,669)	1:414:A:CYS:HB3	1:414:A:CYS:H	4	0.19	0.02	0.2
(1,1166)	1:396:A:ALA:HA	1:395:A:LYS:HB3	4	0.15	0.05	0.14
(1,468)	1:427:A:GLU:H	1:426:A:LYS:HB2	4	0.15	0.03	0.15
(1,468)	1:427:A:GLU:H	1:426:A:LYS:HB3	4	0.15	0.03	0.15
(1,1028)	1:418:A:LYS:H	1:418:A:LYS:HA	4	0.13	0.02	0.13
(1,902)	1:407:A:PHE:HA	1:394:A:GLN:HG3	3	0.65	0.33	0.49
(1,828)	1:397:A:CYS:HB2	1:407:A:PHE:H	3	0.57	0.21	0.61
(1,377)	1:428:A:SER:H	1:426:A:LYS:HB3	3	0.51	0.21	0.4
(1,377)	1:428:A:SER:H	1:426:A:LYS:HB2	3	0.51	0.21	0.4
(1,421)	1:399:A:ASN:HD22	1:395:A:LYS:HD2	3	0.49	0.23	0.6

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,421)	1:399:A:ASN:HD22	1:395:A:LYS:HD3	3	0.49	0.23	0.6
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD21	3	0.41	0.14	0.36
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD22	3	0.41	0.14	0.36
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD23	3	0.41	0.14	0.36
(1,1175)	1:407:A:PHE:HA	1:394:A:GLN:HG3	3	0.35	0.19	0.29
(1,1175)	1:393:A:ASN:HA	1:394:A:GLN:HG3	3	0.35	0.19	0.29
(1,1198)	1:407:A:PHE:HD2	1:409:A:THR:HG22	3	0.32	0.12	0.33
(1,1198)	1:407:A:PHE:HD2	1:409:A:THR:HG23	3	0.32	0.12	0.33
(1,1198)	1:407:A:PHE:HD2	1:409:A:THR:HG21	3	0.32	0.12	0.33
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD21	3	0.29	0.08	0.33
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD22	3	0.29	0.08	0.33
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD23	3	0.29	0.08	0.33
(1,506)	1:413:A:LYS:HE3	1:411:A:SER:HB3	3	0.28	0.07	0.27
(1,506)	1:413:A:LYS:HE2	1:411:A:SER:HB3	3	0.28	0.07	0.27
(1,506)	1:413:A:LYS:HE2	1:411:A:SER:HB2	3	0.28	0.07	0.27
(1,1203)	1:407:A:PHE:HE2	1:409:A:THR:HG21	3	0.27	0.1	0.26
(1,1203)	1:407:A:PHE:HE2	1:409:A:THR:HG22	3	0.27	0.1	0.26
(1,1203)	1:407:A:PHE:HE2	1:409:A:THR:HG23	3	0.27	0.1	0.26
(1,199)	1:383:A:LYS:H	1:383:A:LYS:HD3	3	0.26	0.05	0.28
(1,199)	1:383:A:LYS:H	1:383:A:LYS:HD2	3	0.26	0.05	0.28
(1,674)	1:418:A:LYS:HB2	1:419:A:ASP:H	3	0.22	0.07	0.22
(1,685)	1:397:A:CYS:HB2	1:407:A:PHE:HD1	3	0.22	0.04	0.21
(1,685)	1:397:A:CYS:HB2	1:407:A:PHE:HD2	3	0.22	0.04	0.21
(1,227)	1:381:A:GLU:H	1:379:A:SER:HB3	3	0.19	0.08	0.15
(1,640)	1:428:A:SER:HB3	1:428:A:SER:H	3	0.19	0.03	0.18
(1,640)	1:428:A:SER:HB2	1:428:A:SER:H	3	0.19	0.03	0.18
(1,31)	1:390:A:ALA:H	1:414:A:CYS:HB3	3	0.18	0.06	0.15
(1,498)	1:434:A:LYS:H	1:433:A:GLY:H	3	0.18	0.04	0.15
(1,723)	1:429:A:LYS:HG3	1:429:A:LYS:H	3	0.17	0.06	0.14
(1,723)	1:429:A:LYS:HG2	1:429:A:LYS:H	3	0.17	0.06	0.14
(1,7)	1:436:A:GLU:H	1:436:A:GLU:HG3	3	0.16	0.02	0.16
(1,1227)	1:399:A:ASN:H	1:400:A:LEU:HD11	3	0.16	0.04	0.18
(1,741)	1:397:A:CYS:HB3	1:398:A:GLU:H	3	0.13	0.03	0.12
(1,803)	1:379:A:SER:HA	1:381:A:GLU:H	3	0.12	0.01	0.11
(1,1099)	1:422:A:GLU:HG3	1:422:A:GLU:H	3	0.11	0.0	0.11
(1,1099)	1:384:A:GLU:HG2	1:384:A:GLU:H	3	0.11	0.0	0.11
(1,1099)	1:430:A:GLU:HG3	1:430:A:GLU:H	3	0.11	0.0	0.11
(1,57)	1:386:A:ILE:H	1:387:A:CYS:HB3	3	0.11	0.0	0.11
(1,450)	1:382:A:ASN:HD22	1:383:A:LYS:HG2	2	2.34	0.09	2.34
(1,419)	1:399:A:ASN:HD22	1:395:A:LYS:HB3	2	1.31	0.05	1.31
(1,435)	1:382:A:ASN:HD22	1:383:A:LYS:HD2	2	0.8	0.09	0.8
(1,435)	1:382:A:ASN:HD22	1:383:A:LYS:HD3	2	0.8	0.09	0.8

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,984)	1:399:A:ASN:HB2	1:400:A:LEU:HD11	2	0.72	0.02	0.72
(1,984)	1:399:A:ASN:HB2	1:400:A:LEU:HD12	2	0.72	0.02	0.72
(1,984)	1:399:A:ASN:HB2	1:400:A:LEU:HD13	2	0.72	0.02	0.72
(1,414)	1:412:A:ASN:HD21	1:392:A:ASP:HB3	2	0.62	0.09	0.62
(1,895)	1:406:A:VAL:HA	1:401:A:LYS:HE2	2	0.53	0.05	0.53
(1,783)	1:418:A:LYS:HG2	1:419:A:ASP:H	2	0.51	0.16	0.51
(1,783)	1:418:A:LYS:HG3	1:419:A:ASP:H	2	0.51	0.16	0.51
(1,1013)	1:395:A:LYS:H	1:395:A:LYS:HE3	2	0.49	0.22	0.49
(1,444)	1:382:A:ASN:HD22	1:386:A:ILE:HD11	2	0.44	0.02	0.44
(1,444)	1:382:A:ASN:HD22	1:386:A:ILE:HD12	2	0.44	0.02	0.44
(1,444)	1:382:A:ASN:HD22	1:386:A:ILE:HD13	2	0.44	0.02	0.44
(1,874)	1:395:A:LYS:HA	1:398:A:GLU:HG3	2	0.4	0.28	0.4
(1,1156)	1:417:A:LYS:HA	1:417:A:LYS:HD3	2	0.38	0.02	0.38
(1,1156)	1:417:A:LYS:HA	1:417:A:LYS:HD2	2	0.38	0.02	0.38
(1,682)	1:421:A:LYS:HB3	1:422:A:GLU:H	2	0.36	0.08	0.36
(1,1206)	1:399:A:ASN:HD21	1:399:A:ASN:HB2	2	0.35	0.0	0.35
(1,193)	1:388:A:ASN:H	1:384:A:GLU:HG2	2	0.32	0.06	0.32
(1,399)	1:388:A:ASN:HD22	1:384:A:GLU:HB2	2	0.3	0.13	0.3
(1,399)	1:388:A:ASN:HD22	1:384:A:GLU:HB3	2	0.3	0.13	0.3
(1,1045)	1:388:A:ASN:HD21	1:413:A:LYS:HB2	2	0.28	0.13	0.28
(1,808)	1:426:A:LYS:HG2	1:426:A:LYS:H	2	0.27	0.13	0.27
(1,808)	1:426:A:LYS:HG3	1:426:A:LYS:H	2	0.27	0.13	0.27
(1,942)	1:399:A:ASN:H	1:399:A:ASN:HB2	2	0.26	0.06	0.26
(1,184)	1:391:A:LYS:H	1:414:A:CYS:HB3	2	0.24	0.04	0.24
(1,641)	1:401:A:LYS:HB3	1:401:A:LYS:H	2	0.22	0.11	0.22
(1,485)	1:431:A:THR:H	1:432:A:GLU:H	2	0.22	0.02	0.22
(1,339)	1:422:A:GLU:H	1:419:A:ASP:HB2	2	0.21	0.07	0.21
(1,303)	1:417:A:LYS:H	1:404:A:GLY:HA3	2	0.2	0.09	0.2
(1,536)	1:427:A:GLU:H	1:428:A:SER:H	2	0.19	0.03	0.19
(1,1189)	1:418:A:LYS:HD3	1:418:A:LYS:HA	2	0.18	0.02	0.18
(1,1189)	1:418:A:LYS:HD2	1:418:A:LYS:HA	2	0.18	0.02	0.18
(1,965)	1:416:A:LEU:HD21	1:383:A:LYS:HB2	2	0.18	0.06	0.18
(1,965)	1:416:A:LEU:HD22	1:383:A:LYS:HB2	2	0.18	0.06	0.18
(1,965)	1:416:A:LEU:HD23	1:383:A:LYS:HB2	2	0.18	0.06	0.18
(1,252)	1:409:A:THR:H	1:406:A:VAL:HG21	2	0.16	0.05	0.16
(1,252)	1:409:A:THR:H	1:406:A:VAL:HG22	2	0.16	0.05	0.16
(1,252)	1:409:A:THR:H	1:406:A:VAL:HG23	2	0.16	0.05	0.16
(1,1117)	1:374:A:LYS:HG2	1:374:A:LYS:H	2	0.16	0.02	0.16
(1,1117)	1:373:A:LYS:HG2	1:374:A:LYS:H	2	0.16	0.02	0.16
(1,417)	1:412:A:ASN:HD21	1:412:A:ASN:HA	2	0.15	0.01	0.15
(1,516)	1:430:A:GLU:H	1:429:A:LYS:H	2	0.15	0.02	0.15
(1,92)	1:403:A:LYS:H	1:400:A:LEU:HD11	2	0.14	0.03	0.14

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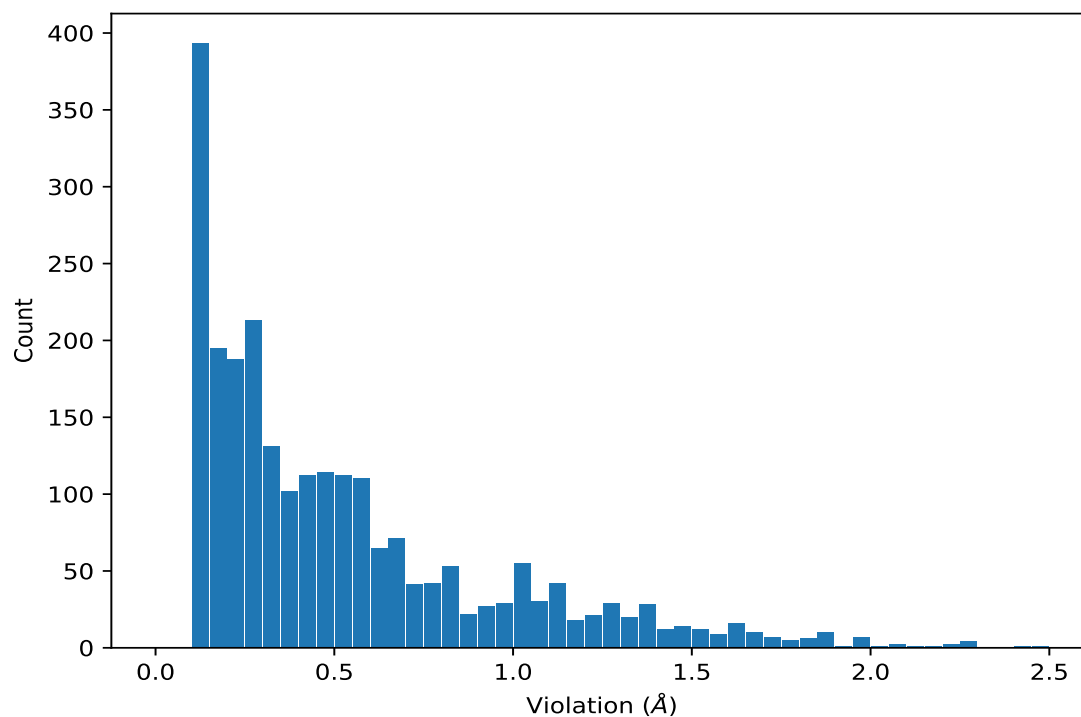
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,92)	1:403:A:LYS:H	1:400:A:LEU:HD12	2	0.14	0.03	0.14
(1,92)	1:403:A:LYS:H	1:400:A:LEU:HD13	2	0.14	0.03	0.14
(1,284)	1:414:A:CYS:H	1:397:A:CYS:HB2	2	0.13	0.01	0.13
(1,367)	1:431:A:THR:H	1:430:A:GLU:H	2	0.12	0.01	0.12
(1,940)	1:431:A:THR:H	1:431:A:THR:HB	2	0.12	0.0	0.12
(1,1205)	1:422:A:GLU:H	1:422:A:GLU:HG3	2	0.12	0.0	0.12
(1,1205)	1:430:A:GLU:H	1:430:A:GLU:HG3	2	0.12	0.0	0.12
(1,451)	1:408:A:ASN:HD21	1:408:A:ASN:HA	2	0.11	0.0	0.11
(1,817)	1:377:A:THR:HG21	1:378:A:GLU:H	2	0.1	0.0	0.1
(1,817)	1:377:A:THR:HG22	1:378:A:GLU:H	2	0.1	0.0	0.1
(1,817)	1:377:A:THR:HG23	1:378:A:GLU:H	2	0.1	0.0	0.1

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

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)
(1,1234)	1:400:A:LEU:HD23	1:390:A:ALA:HB1	14	2.5
(1,450)	1:382:A:ASN:HD22	1:383:A:LYS:HG2	21	2.43
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD21	30	2.29
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD22	30	2.29
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD23	30	2.29
(1,1234)	1:400:A:LEU:HD21	1:390:A:ALA:HB1	19	2.28
(1,1177)	1:424:A:LEU:HA	1:420:A:VAL:HG13	34	2.24
(1,450)	1:382:A:ASN:HD22	1:383:A:LYS:HG2	7	2.24
(1,1177)	1:404:A:GLY:HA3	1:416:A:LEU:HD12	25	2.16
(1,1243)	1:403:A:LYS:HE3	1:400:A:LEU:HD23	31	2.1
(1,1234)	1:400:A:LEU:HD22	1:396:A:ALA:HB2	30	2.08
(1,1234)	1:400:A:LEU:HD22	1:390:A:ALA:HB1	24	2.06
(1,1177)	1:424:A:LEU:HA	1:420:A:VAL:HG12	18	2.01
(1,1050)	1:382:A:ASN:HD22	1:384:A:GLU:HB3	7	1.98
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD11	18	1.98
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD12	18	1.98
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD13	18	1.98
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD11	26	1.96
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD12	26	1.96
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD13	26	1.96
(1,1234)	1:400:A:LEU:HD23	1:390:A:ALA:HB2	22	1.95
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD21	30	1.9
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD22	30	1.9
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD23	30	1.9
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD21	14	1.88
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD22	14	1.88
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD23	14	1.88
(1,1234)	1:400:A:LEU:HD22	1:396:A:ALA:HB2	1	1.86
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD11	27	1.85
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD12	27	1.85
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD13	27	1.85
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD11	25	1.81
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD12	25	1.81
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD13	25	1.81
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD11	34	1.8
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD12	34	1.8
(1,24)	1:405:A:CYS:H	1:416:A:LEU:HD13	34	1.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1050)	1:382:A:ASN:HD22	1:384:A:GLU:HB2	21	1.77
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	28	1.77
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD21	26	1.75
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD22	26	1.75
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD23	26	1.75
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	27	1.74
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD21	19	1.74
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD22	19	1.74
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD23	19	1.74
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	29	1.73
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	34	1.73
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	16	1.72
(1,1243)	1:403:A:LYS:HE3	1:400:A:LEU:HD21	5	1.7
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	22	1.69
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	4	1.69
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	15	1.69
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	25	1.68
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	22	1.68
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD11	18	1.68
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD12	18	1.68
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD13	18	1.68
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	13	1.67
(1,1177)	1:424:A:LEU:HA	1:420:A:VAL:HG11	26	1.65
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD21	14	1.63
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD22	14	1.63
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD23	14	1.63
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD21	25	1.63
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD22	25	1.63
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD23	25	1.63
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	14	1.63
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD22	34	1.62
(1,1229)	1:407:A:PHE:H	1:409:A:THR:HG23	27	1.62
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	32	1.62
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD21	1	1.62
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD22	1	1.62
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD23	1	1.62
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	12	1.61
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD3	5	1.6
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	25	1.59
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	35	1.58
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD3	7	1.57
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB1	12	1.57

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1241)	1:385:A:LYS:HD2	1:386:A:ILE:HG22	8	1.56
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	29	1.56
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	15	1.56
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB2	6	1.55
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	11	1.55
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	12	1.54
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD11	26	1.53
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD12	26	1.53
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD13	26	1.53
(1,1243)	1:383:A:LYS:HE3	1:416:A:LEU:HD13	4	1.52
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD11	19	1.52
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD12	19	1.52
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD13	19	1.52
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	10	1.52
(1,1243)	1:383:A:LYS:HE3	1:416:A:LEU:HD13	18	1.51
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	30	1.51
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	17	1.5
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	28	1.49
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	11	1.49
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	11	1.49
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB2	3	1.49
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD21	11	1.48
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	7	1.48
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	2	1.47
(1,1229)	1:407:A:PHE:H	1:409:A:THR:HG22	16	1.47
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	26	1.47
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	1	1.47
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	16	1.47
(1,1243)	1:383:A:LYS:HE2	1:416:A:LEU:HD13	17	1.46
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD21	23	1.46
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB2	2	1.46
(1,1243)	1:403:A:LYS:HE3	1:400:A:LEU:HD21	12	1.45
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB2	25	1.45
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	6	1.45
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	6	1.45
(1,1140)	1:390:A:ALA:HB2	1:415:A:GLU:H	17	1.44
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	30	1.44
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD21	27	1.44
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD22	27	1.44
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD23	27	1.44
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	20	1.44
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	20	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD2	20	1.42
(1,1243)	1:418:A:LYS:HE3	1:416:A:LEU:HD13	7	1.4
(1,1177)	1:424:A:LEU:HA	1:420:A:VAL:HG11	27	1.4
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD11	34	1.4
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD12	34	1.4
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD13	34	1.4
(1,1229)	1:407:A:PHE:H	1:409:A:THR:HG21	23	1.38
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD11	18	1.38
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD12	18	1.38
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD13	18	1.38
(1,1243)	1:383:A:LYS:HE2	1:416:A:LEU:HD13	32	1.37
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	13	1.37
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB1	34	1.37
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD21	14	1.37
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD22	14	1.37
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD23	14	1.37
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD11	27	1.37
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD12	27	1.37
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD13	27	1.37
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD21	22	1.37
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD22	22	1.37
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD23	22	1.37
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	8	1.36
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	8	1.36
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	21	1.35
(1,1229)	1:407:A:PHE:H	1:409:A:THR:HG21	31	1.35
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	28	1.35
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	20	1.35
(1,419)	1:399:A:ASN:HD22	1:395:A:LYS:HB3	33	1.35
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	14	1.34
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD2	30	1.34
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD21	24	1.34
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD22	24	1.34
(1,52)	1:391:A:LYS:H	1:400:A:LEU:HD23	24	1.34
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	35	1.33
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	28	1.33
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	29	1.32
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD2	10	1.32
(1,1243)	1:383:A:LYS:HE2	1:416:A:LEU:HD12	15	1.31
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB1	9	1.31
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB1	22	1.31
(1,1142)	1:416:A:LEU:HD12	1:383:A:LYS:HE2	15	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD2	1	1.3
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	24	1.3
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	24	1.3
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	24	1.3
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD11	26	1.3
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD12	26	1.3
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD13	26	1.3
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	11	1.29
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD11	27	1.29
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD12	27	1.29
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD13	27	1.29
(1,642)	1:416:A:LEU:HD11	1:417:A:LYS:H	27	1.29
(1,642)	1:416:A:LEU:HD12	1:417:A:LYS:H	27	1.29
(1,642)	1:416:A:LEU:HD13	1:417:A:LYS:H	27	1.29
(1,1229)	1:407:A:PHE:H	1:409:A:THR:HG22	15	1.28
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	2	1.28
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	20	1.28
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG21	4	1.27
(1,250)	1:413:A:LYS:H	1:408:A:ASN:HB3	34	1.27
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB2	35	1.26
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG21	30	1.26
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	6	1.26
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	22	1.26
(1,419)	1:399:A:ASN:HD22	1:395:A:LYS:HB3	29	1.26
(1,1248)	1:407:A:PHE:HB2	1:409:A:THR:HG22	19	1.25
(1,1248)	1:407:A:PHE:HB2	1:409:A:THR:HG21	23	1.25
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	28	1.25
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	6	1.25
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	8	1.25
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	7	1.25
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	31	1.25
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD21	19	1.25
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD22	19	1.25
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD23	19	1.25
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	16	1.25
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	7	1.25
(1,1243)	1:403:A:LYS:HE3	1:400:A:LEU:HD21	27	1.24
(1,1236)	1:386:A:ILE:HG21	1:403:A:LYS:HD2	8	1.24
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	1	1.24
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB2	17	1.24
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	35	1.24
(1,1243)	1:403:A:LYS:HE3	1:400:A:LEU:HD21	29	1.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	20	1.23
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	4	1.23
(1,1140)	1:394:A:GLN:HB3	1:407:A:PHE:H	27	1.23
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	24	1.23
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG22	8	1.22
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD11	25	1.22
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD12	25	1.22
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD13	25	1.22
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD23	28	1.21
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG23	31	1.21
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	27	1.21
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	25	1.21
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	25	1.21
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	34	1.21
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	31	1.21
(1,1238)	1:420:A:VAL:HG13	1:423:A:LYS:HG3	26	1.2
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	16	1.2
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	6	1.19
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	18	1.18
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	18	1.18
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB2	30	1.18
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD21	25	1.18
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD22	25	1.18
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD23	25	1.18
(1,1046)	1:399:A:ASN:HD22	1:395:A:LYS:HG2	34	1.17
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	29	1.17
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	22	1.17
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	22	1.17
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	22	1.17
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	16	1.17
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD3	4	1.16
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD3	17	1.16
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	31	1.16
(1,1243)	1:383:A:LYS:HE3	1:416:A:LEU:HD11	35	1.15
(1,1194)	1:438:A:ALA:HB3	1:437:A:LYS:HA	33	1.15
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	20	1.15
(1,1002)	1:404:A:GLY:H	1:417:A:LYS:HD3	33	1.15
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	23	1.15
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD11	25	1.15
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD12	25	1.15
(1,64)	1:404:A:GLY:H	1:416:A:LEU:HD13	25	1.15
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	26	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE3	2	1.14
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	2	1.13
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	29	1.13
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	34	1.13
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD21	19	1.13
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD22	19	1.13
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD23	19	1.13
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD11	34	1.13
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD12	34	1.13
(1,842)	1:405:A:CYS:HA	1:416:A:LEU:HD13	34	1.13
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	17	1.13
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	1	1.12
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	3	1.12
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	26	1.12
(1,1244)	1:383:A:LYS:HE2	1:386:A:ILE:HD11	24	1.12
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD3	3	1.12
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	19	1.12
(1,1141)	1:386:A:ILE:HD11	1:383:A:LYS:HE2	24	1.12
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	18	1.12
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	4	1.12
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	1	1.12
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	26	1.12
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	29	1.12
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	14	1.11
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	3	1.11
(1,642)	1:416:A:LEU:HD11	1:417:A:LYS:H	26	1.11
(1,642)	1:416:A:LEU:HD12	1:417:A:LYS:H	26	1.11
(1,642)	1:416:A:LEU:HD13	1:417:A:LYS:H	26	1.11
(1,1248)	1:407:A:PHE:HB2	1:409:A:THR:HG22	4	1.1
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	12	1.1
(1,1243)	1:383:A:LYS:HE3	1:416:A:LEU:HD12	10	1.1
(1,902)	1:407:A:PHE:HA	1:394:A:GLN:HG3	28	1.1
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	11	1.1
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG23	29	1.09
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	19	1.09
(1,1142)	1:386:A:ILE:HG21	1:403:A:LYS:HE2	20	1.09
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	20	1.09
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	21	1.08
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	9	1.07
(1,1002)	1:404:A:GLY:H	1:416:A:LEU:HB2	20	1.07
(1,922)	1:398:A:GLU:HB2	1:395:A:LYS:HA	34	1.07
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	24	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD21	26	1.07
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD22	26	1.07
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD23	26	1.07
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD23	6	1.06
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD22	20	1.06
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG22	24	1.06
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB3	14	1.06
(1,1194)	1:421:A:LYS:HG2	1:425:A:GLU:HA	8	1.06
(1,1194)	1:438:A:ALA:HB3	1:437:A:LYS:HA	21	1.06
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD21	24	1.06
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD22	24	1.06
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD23	24	1.06
(1,1244)	1:403:A:LYS:HE2	1:386:A:ILE:HD11	12	1.05
(1,1229)	1:415:A:GLU:H	1:413:A:LYS:HD2	18	1.05
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB2	33	1.05
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	8	1.05
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	3	1.05
(1,1141)	1:386:A:ILE:HD11	1:403:A:LYS:HE2	12	1.05
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	3	1.05
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	32	1.05
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	17	1.05
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB2	4	1.04
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE3	21	1.04
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	4	1.04
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	4	1.04
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	4	1.04
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD21	1	1.04
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD22	1	1.04
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD23	1	1.04
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	20	1.03
(1,1243)	1:383:A:LYS:HE3	1:416:A:LEU:HD12	3	1.03
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	4	1.03
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	10	1.03
(1,1067)	1:384:A:GLU:HG3	1:380:A:ALA:HB1	32	1.03
(1,642)	1:416:A:LEU:HD11	1:417:A:LYS:H	25	1.03
(1,642)	1:416:A:LEU:HD12	1:417:A:LYS:H	25	1.03
(1,642)	1:416:A:LEU:HD13	1:417:A:LYS:H	25	1.03
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD11	27	1.03
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD12	27	1.03
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD13	27	1.03
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG23	22	1.02
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	5	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB1	23	1.02
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	32	1.02
(1,642)	1:416:A:LEU:HD11	1:417:A:LYS:H	18	1.02
(1,642)	1:416:A:LEU:HD12	1:417:A:LYS:H	18	1.02
(1,642)	1:416:A:LEU:HD13	1:417:A:LYS:H	18	1.02
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	28	1.02
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD3	34	1.01
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD11	30	1.01
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD12	30	1.01
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD13	30	1.01
(1,728)	1:416:A:LEU:HD21	1:384:A:GLU:H	26	1.01
(1,728)	1:416:A:LEU:HD22	1:384:A:GLU:H	26	1.01
(1,728)	1:416:A:LEU:HD23	1:384:A:GLU:H	26	1.01
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD11	18	1.01
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD12	18	1.01
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD13	18	1.01
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD11	25	1.01
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD12	25	1.01
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD13	25	1.01
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD21	18	1.01
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD22	18	1.01
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD23	18	1.01
(1,152)	1:395:A:LYS:H	1:398:A:GLU:HB2	34	1.01
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD21	30	1.0
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD22	30	1.0
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD23	30	1.0
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD21	30	1.0
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD22	30	1.0
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD23	30	1.0
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD21	30	1.0
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD22	30	1.0
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD23	30	1.0
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	12	1.0
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	11	1.0
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	7	0.99
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	34	0.99
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	5	0.99
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	9	0.99
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	11	0.99
(1,1229)	1:415:A:GLU:H	1:390:A:ALA:HB1	11	0.98
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	30	0.98
(1,1140)	1:390:A:ALA:HB2	1:415:A:GLU:H	1	0.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1002)	1:404:A:GLY:H	1:416:A:LEU:HB2	24	0.98
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD11	26	0.98
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD12	26	0.98
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD13	26	0.98
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	32	0.98
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD21	27	0.98
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD22	27	0.98
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD23	27	0.98
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD21	34	0.98
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD22	34	0.98
(1,232)	1:381:A:GLU:H	1:416:A:LEU:HD23	34	0.98
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	8	0.97
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD2	14	0.97
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	25	0.97
(1,1238)	1:420:A:VAL:HG13	1:421:A:LYS:HG3	1	0.96
(1,1159)	1:436:A:GLU:HA	1:438:A:ALA:HB3	33	0.96
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG2	5	0.96
(1,835)	1:392:A:ASP:HB3	1:412:A:ASN:HD22	20	0.96
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD11	34	0.96
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD12	34	0.96
(1,561)	1:416:A:LEU:HA	1:416:A:LEU:HD13	34	0.96
(1,1149)	1:397:A:CYS:HB2	1:390:A:ALA:HB1	16	0.95
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	16	0.95
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	35	0.95
(1,1032)	1:419:A:ASP:H	1:417:A:LYS:HD2	5	0.95
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE3	10	0.95
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	27	0.95
(1,728)	1:416:A:LEU:HD21	1:384:A:GLU:H	27	0.95
(1,728)	1:416:A:LEU:HD22	1:384:A:GLU:H	27	0.95
(1,728)	1:416:A:LEU:HD23	1:384:A:GLU:H	27	0.95
(1,1243)	1:383:A:LYS:HE2	1:416:A:LEU:HD13	33	0.94
(1,1159)	1:431:A:THR:HB	1:434:A:LYS:HG2	35	0.94
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	10	0.93
(1,1248)	1:407:A:PHE:HB2	1:409:A:THR:HG22	15	0.93
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	21	0.93
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	7	0.93
(1,1032)	1:419:A:ASP:H	1:417:A:LYS:HD2	29	0.93
(1,1243)	1:403:A:LYS:HE3	1:400:A:LEU:HD21	26	0.92
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	24	0.92
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	18	0.92
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	2	0.92
(1,642)	1:416:A:LEU:HD11	1:417:A:LYS:H	34	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,642)	1:416:A:LEU:HD12	1:417:A:LYS:H	34	0.92
(1,642)	1:416:A:LEU:HD13	1:417:A:LYS:H	34	0.92
(1,1186)	1:425:A:GLU:HG2	1:423:A:LYS:HA	27	0.91
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	5	0.9
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	23	0.9
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB3	7	0.9
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	30	0.89
(1,1142)	1:386:A:ILE:HG23	1:403:A:LYS:HE2	23	0.89
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	17	0.89
(1,435)	1:382:A:ASN:HD22	1:383:A:LYS:HD2	21	0.89
(1,1248)	1:407:A:PHE:HB2	1:409:A:THR:HG21	11	0.88
(1,1194)	1:438:A:ALA:HB1	1:437:A:LYS:HA	13	0.88
(1,1142)	1:420:A:VAL:HG22	1:423:A:LYS:HE2	31	0.88
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	18	0.88
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB1	9	0.88
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	25	0.87
(1,1243)	1:383:A:LYS:HE3	1:416:A:LEU:HD13	9	0.87
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	32	0.87
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE3	1	0.87
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD21	1	0.87
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD22	1	0.87
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD23	1	0.87
(1,372)	1:429:A:LYS:H	1:430:A:GLU:HB3	22	0.87
(1,1149)	1:397:A:CYS:HB2	1:396:A:ALA:HB3	20	0.86
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	7	0.86
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB2	35	0.86
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG23	20	0.86
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG2	17	0.86
(1,1243)	1:383:A:LYS:HE2	1:416:A:LEU:HD13	8	0.85
(1,1192)	1:384:A:GLU:HG2	1:381:A:GLU:HA	31	0.85
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	3	0.85
(1,1142)	1:416:A:LEU:HD13	1:383:A:LYS:HE2	8	0.85
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	32	0.85
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	32	0.85
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	32	0.85
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD21	22	0.85
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD22	22	0.85
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD23	22	0.85
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	14	0.85
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	6	0.84
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	24	0.84
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD21	14	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD22	14	0.84
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD23	14	0.84
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD2	31	0.84
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	19	0.83
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	14	0.83
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	15	0.83
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	4	0.83
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	32	0.82
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	5	0.82
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	12	0.82
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	5	0.82
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	8	0.81
(1,1159)	1:431:A:THR:HB	1:434:A:LYS:HG2	13	0.81
(1,1142)	1:386:A:ILE:HG22	1:403:A:LYS:HE2	12	0.81
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	22	0.81
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	28	0.81
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB2	18	0.81
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	17	0.81
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG23	18	0.81
(1,1002)	1:404:A:GLY:H	1:417:A:LYS:HD2	21	0.81
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG11	18	0.81
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG12	18	0.81
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG13	18	0.81
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	8	0.81
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	8	0.81
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	8	0.81
(1,828)	1:397:A:CYS:HB2	1:407:A:PHE:H	7	0.81
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	24	0.81
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	29	0.81
(1,1243)	1:418:A:LYS:HE3	1:416:A:LEU:HD13	16	0.8
(1,1238)	1:420:A:VAL:HG13	1:423:A:LYS:HG3	33	0.8
(1,1149)	1:397:A:CYS:HB2	1:396:A:ALA:HB1	4	0.8
(1,1142)	1:416:A:LEU:HD13	1:418:A:LYS:HE3	16	0.8
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	16	0.8
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	35	0.8
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	35	0.8
(1,377)	1:428:A:SER:H	1:426:A:LYS:HB2	18	0.8
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG3	3	0.8
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG3	32	0.8
(1,1238)	1:420:A:VAL:HG13	1:421:A:LYS:HG3	28	0.79
(1,1238)	1:420:A:VAL:HG11	1:421:A:LYS:HG3	31	0.79
(1,1002)	1:404:A:GLY:H	1:417:A:LYS:HD3	15	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD11	14	0.79
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD12	14	0.79
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD13	14	0.79
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB2	14	0.79
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG2	21	0.79
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	24	0.78
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	30	0.78
(1,1149)	1:397:A:CYS:HB2	1:390:A:ALA:HB3	27	0.78
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	34	0.78
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE3	7	0.78
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	14	0.78
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	13	0.78
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	15	0.78
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	23	0.78
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	11	0.77
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	12	0.77
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB3	12	0.77
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE2	6	0.77
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE3	20	0.77
(1,1002)	1:404:A:GLY:H	1:417:A:LYS:HD3	23	0.77
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD2	27	0.77
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	7	0.77
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	14	0.77
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	24	0.77
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	22	0.76
(1,1149)	1:397:A:CYS:HB2	1:396:A:ALA:HB3	30	0.76
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	23	0.76
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	29	0.76
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	25	0.76
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB3	2	0.76
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG21	7	0.76
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	4	0.76
(1,1238)	1:420:A:VAL:HG11	1:423:A:LYS:HG3	17	0.75
(1,1140)	1:390:A:ALA:HB2	1:415:A:GLU:H	6	0.75
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD2	11	0.75
(1,1002)	1:404:A:GLY:H	1:383:A:LYS:HD2	25	0.75
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD1	27	0.75
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD2	27	0.75
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	16	0.75
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE3	4	0.74
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG21	1	0.74
(1,274)	1:412:A:ASN:H	1:413:A:LYS:HG2	22	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	1	0.74
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD3	16	0.74
(1,1159)	1:436:A:GLU:HA	1:438:A:ALA:HB3	8	0.73
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	28	0.73
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE2	35	0.73
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG21	11	0.73
(1,984)	1:399:A:ASN:HB2	1:400:A:LEU:HD11	33	0.73
(1,984)	1:399:A:ASN:HB2	1:400:A:LEU:HD12	33	0.73
(1,984)	1:399:A:ASN:HB2	1:400:A:LEU:HD13	33	0.73
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD3	2	0.73
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	25	0.73
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD3	6	0.72
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD21	24	0.72
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD22	24	0.72
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD23	24	0.72
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	13	0.72
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	26	0.72
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	30	0.72
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	13	0.72
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	12	0.72
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	20	0.72
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG3	31	0.72
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD3	32	0.72
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG21	15	0.71
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	16	0.71
(1,1077)	1:400:A:LEU:HD23	1:390:A:ALA:HA	27	0.71
(1,1057)	1:425:A:GLU:H	1:421:A:LYS:HB2	27	0.71
(1,1013)	1:395:A:LYS:H	1:395:A:LYS:HE3	30	0.71
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	33	0.71
(1,435)	1:382:A:ASN:HD22	1:383:A:LYS:HD3	7	0.71
(1,414)	1:412:A:ASN:HD21	1:392:A:ASP:HB3	3	0.71
(1,372)	1:429:A:LYS:H	1:430:A:GLU:HB3	3	0.71
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	11	0.71
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	28	0.71
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD21	19	0.71
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD22	19	0.71
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD23	19	0.71
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD2	25	0.71
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	33	0.7
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	35	0.7
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	21	0.7
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD2	27	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	21	0.7
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE2	5	0.7
(1,984)	1:399:A:ASN:HB2	1:400:A:LEU:HD11	29	0.7
(1,984)	1:399:A:ASN:HB2	1:400:A:LEU:HD12	29	0.7
(1,984)	1:399:A:ASN:HB2	1:400:A:LEU:HD13	29	0.7
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	6	0.7
(1,225)	1:383:A:LYS:H	1:384:A:GLU:HG2	19	0.7
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD3	17	0.7
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	12	0.7
(1,1243)	1:383:A:LYS:HE2	1:416:A:LEU:HD12	13	0.69
(1,1238)	1:420:A:VAL:HG12	1:421:A:LYS:HG3	12	0.69
(1,1142)	1:416:A:LEU:HD12	1:383:A:LYS:HE2	13	0.69
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG11	23	0.69
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG12	23	0.69
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG13	23	0.69
(1,728)	1:416:A:LEU:HD21	1:384:A:GLU:H	25	0.69
(1,728)	1:416:A:LEU:HD22	1:384:A:GLU:H	25	0.69
(1,728)	1:416:A:LEU:HD23	1:384:A:GLU:H	25	0.69
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	27	0.69
(1,421)	1:399:A:ASN:HD22	1:395:A:LYS:HD3	29	0.69
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	5	0.69
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	34	0.69
(1,1186)	1:378:A:GLU:HG2	1:377:A:THR:HB	9	0.68
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	18	0.68
(1,1149)	1:397:A:CYS:HB2	1:390:A:ALA:HB3	23	0.68
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB2	8	0.68
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD11	1	0.68
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD12	1	0.68
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD13	1	0.68
(1,874)	1:395:A:LYS:HA	1:398:A:GLU:HG3	24	0.68
(1,372)	1:429:A:LYS:H	1:430:A:GLU:HB3	1	0.68
(1,308)	1:418:A:LYS:H	1:415:A:GLU:HB3	2	0.68
(1,155)	1:395:A:LYS:H	1:393:A:ASN:HD22	28	0.68
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	16	0.67
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	5	0.67
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	26	0.67
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG21	12	0.67
(1,783)	1:418:A:LYS:HG3	1:419:A:ASP:H	31	0.67
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE2	32	0.67
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	22	0.66
(1,1140)	1:390:A:ALA:HB2	1:415:A:GLU:H	2	0.66
(1,1137)	1:417:A:LYS:HB3	1:419:A:ASP:H	6	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	9	0.66
(1,1002)	1:404:A:GLY:H	1:417:A:LYS:HD3	11	0.66
(1,1002)	1:404:A:GLY:H	1:416:A:LEU:HB2	13	0.66
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG2	31	0.66
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG11	15	0.66
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG12	15	0.66
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG13	15	0.66
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	25	0.66
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	19	0.66
(1,155)	1:395:A:LYS:H	1:393:A:ASN:HD22	26	0.66
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	32	0.66
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	18	0.66
(1,1140)	1:390:A:ALA:HB2	1:415:A:GLU:H	25	0.65
(1,1067)	1:408:A:ASN:HB2	1:413:A:LYS:HD3	14	0.65
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	10	0.65
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD21	22	0.65
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD22	22	0.65
(1,954)	1:390:A:ALA:H	1:400:A:LEU:HD23	22	0.65
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD2	6	0.65
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD2	8	0.65
(1,372)	1:429:A:LYS:H	1:430:A:GLU:HB3	32	0.65
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	14	0.65
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	22	0.65
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	35	0.65
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	31	0.65
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	5	0.64
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	17	0.64
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	24	0.64
(1,1002)	1:404:A:GLY:H	1:416:A:LEU:HB2	17	0.64
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD11	22	0.64
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD12	22	0.64
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD13	22	0.64
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	2	0.64
(1,308)	1:418:A:LYS:H	1:415:A:GLU:HB3	6	0.64
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	33	0.63
(1,1142)	1:386:A:ILE:HG23	1:403:A:LYS:HE2	33	0.63
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	10	0.63
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	31	0.63
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG22	16	0.63
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG23	25	0.63
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG21	31	0.63
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG21	33	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,728)	1:416:A:LEU:HD21	1:384:A:GLU:H	18	0.63
(1,728)	1:416:A:LEU:HD22	1:384:A:GLU:H	18	0.63
(1,728)	1:416:A:LEU:HD23	1:384:A:GLU:H	18	0.63
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB3	12	0.63
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	24	0.63
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE3	16	0.63
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE2	31	0.63
(1,265)	1:411:A:SER:H	1:413:A:LYS:HG2	22	0.63
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	2	0.63
(1,158)	1:392:A:ASP:H	1:391:A:LYS:HB3	11	0.63
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	13	0.63
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	35	0.63
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG2	35	0.63
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE2	3	0.62
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD3	11	0.62
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG23	27	0.62
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	32	0.62
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	5	0.62
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	14	0.62
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	26	0.62
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	27	0.62
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG2	29	0.62
(1,1236)	1:386:A:ILE:HG23	1:403:A:LYS:HD2	31	0.61
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	15	0.61
(1,1049)	1:382:A:ASN:HD21	1:416:A:LEU:HD22	12	0.61
(1,1002)	1:404:A:GLY:H	1:417:A:LYS:HD3	10	0.61
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD21	14	0.61
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD22	14	0.61
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD23	14	0.61
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD21	14	0.61
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD22	14	0.61
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD23	14	0.61
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD21	14	0.61
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD22	14	0.61
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD23	14	0.61
(1,828)	1:397:A:CYS:HB2	1:407:A:PHE:H	31	0.61
(1,818)	1:410:A:GLU:HB2	1:408:A:ASN:HD22	34	0.61
(1,508)	1:416:A:LEU:HD21	1:384:A:GLU:HA	18	0.61
(1,508)	1:416:A:LEU:HD22	1:384:A:GLU:HA	18	0.61
(1,508)	1:416:A:LEU:HD23	1:384:A:GLU:HA	18	0.61
(1,508)	1:416:A:LEU:HD21	1:384:A:GLU:HA	26	0.61
(1,508)	1:416:A:LEU:HD22	1:384:A:GLU:HA	26	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,508)	1:416:A:LEU:HD23	1:384:A:GLU:HA	26	0.61
(1,482)	1:396:A:ALA:HA	1:399:A:ASN:HB2	33	0.61
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	25	0.61
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD21	24	0.61
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD22	24	0.61
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD23	24	0.61
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG22	5	0.6
(1,1183)	1:424:A:LEU:HB3	1:421:A:LYS:HA	33	0.6
(1,1175)	1:393:A:ASN:HA	1:394:A:GLN:HG3	28	0.6
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	27	0.6
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	12	0.6
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	4	0.6
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE2	34	0.6
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG2	32	0.6
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	3	0.6
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	3	0.6
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	3	0.6
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	33	0.6
(1,421)	1:399:A:ASN:HD22	1:395:A:LYS:HD2	33	0.6
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB3	16	0.6
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	17	0.6
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD21	14	0.6
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD22	14	0.6
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD23	14	0.6
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	26	0.6
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD3	10	0.6
(1,1238)	1:420:A:VAL:HG12	1:421:A:LYS:HG3	25	0.59
(1,1177)	1:404:A:GLY:HA3	1:416:A:LEU:HD12	16	0.59
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	15	0.59
(1,1079)	1:386:A:ILE:HG12	1:383:A:LYS:HG3	3	0.59
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	28	0.59
(1,895)	1:406:A:VAL:HA	1:401:A:LYS:HE2	12	0.59
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB2	7	0.59
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE3	26	0.59
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	24	0.59
(1,60)	1:400:A:LEU:H	1:405:A:CYS:HB2	4	0.59
(1,1142)	1:386:A:ILE:HG22	1:403:A:LYS:HE3	7	0.58
(1,1142)	1:386:A:ILE:HG23	1:403:A:LYS:HE3	18	0.58
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB1	6	0.58
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG3	15	0.58
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD21	30	0.58
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD22	30	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,554)	1:397:A:CYS:HA	1:400:A:LEU:HD23	30	0.58
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE3	15	0.58
(1,305)	1:418:A:LYS:H	1:418:A:LYS:HE2	35	0.58
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	9	0.58
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	19	0.58
(1,1238)	1:420:A:VAL:HG12	1:421:A:LYS:HG3	18	0.57
(1,1159)	1:425:A:GLU:HA	1:421:A:LYS:HG2	14	0.57
(1,1150)	1:418:A:LYS:HA	1:422:A:GLU:HG2	16	0.57
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	13	0.57
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	34	0.57
(1,1110)	1:390:A:ALA:HB1	1:414:A:CYS:H	20	0.57
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	10	0.57
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB1	12	0.57
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	25	0.57
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	25	0.57
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	25	0.57
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	31	0.57
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD21	34	0.57
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD22	34	0.57
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD23	34	0.57
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	1	0.57
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	23	0.57
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	19	0.57
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD2	34	0.57
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	10	0.57
(1,1194)	1:438:A:ALA:HB3	1:437:A:LYS:HA	6	0.56
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	13	0.56
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	34	0.56
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	8	0.56
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	14	0.56
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD2	17	0.56
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG22	16	0.56
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	29	0.56
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD11	13	0.56
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD12	13	0.56
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD13	13	0.56
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD1	20	0.56
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD2	20	0.56
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	35	0.56
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB3	5	0.56
(1,305)	1:418:A:LYS:H	1:418:A:LYS:HE3	26	0.56
(1,287)	1:416:A:LEU:H	1:415:A:GLU:HG2	25	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	6	0.56
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	11	0.56
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	18	0.56
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	19	0.56
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	31	0.56
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD3	5	0.56
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD2	13	0.56
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	25	0.56
(1,1142)	1:420:A:VAL:HG13	1:421:A:LYS:HE2	28	0.55
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	21	0.55
(1,1079)	1:386:A:ILE:HG12	1:383:A:LYS:HG3	8	0.55
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE2	14	0.55
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE2	17	0.55
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG21	10	0.55
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB2	6	0.55
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG23	20	0.55
(1,1002)	1:404:A:GLY:H	1:416:A:LEU:HB2	31	0.55
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG3	10	0.55
(1,835)	1:392:A:ASP:HB3	1:412:A:ASN:HD22	3	0.55
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	5	0.55
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	8	0.55
(1,372)	1:429:A:LYS:H	1:430:A:GLU:HB3	16	0.55
(1,308)	1:418:A:LYS:H	1:415:A:GLU:HB3	7	0.55
(1,305)	1:418:A:LYS:H	1:418:A:LYS:HE2	18	0.55
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	12	0.55
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	21	0.55
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	34	0.55
(1,155)	1:395:A:LYS:H	1:393:A:ASN:HD22	18	0.55
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	24	0.55
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD3	7	0.55
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD3	7	0.55
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	14	0.55
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	31	0.54
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG22	3	0.54
(1,1142)	1:386:A:ILE:HG21	1:403:A:LYS:HE3	10	0.54
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD2	2	0.54
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	30	0.54
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	10	0.54
(1,416)	1:388:A:ASN:HD21	1:413:A:LYS:HG2	15	0.54
(1,409)	1:388:A:ASN:HD21	1:415:A:GLU:HG2	12	0.54
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	16	0.54
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE2	13	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	15	0.54
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	28	0.54
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	24	0.54
(1,102)	1:398:A:GLU:H	1:398:A:GLU:HG2	24	0.54
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	12	0.54
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	17	0.54
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	29	0.54
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	13	0.54
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG2	4	0.54
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	32	0.53
(1,1057)	1:425:A:GLU:H	1:421:A:LYS:HB2	3	0.53
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	15	0.53
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE2	15	0.53
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD11	30	0.53
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD12	30	0.53
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD13	30	0.53
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD21	19	0.53
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD22	19	0.53
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD23	19	0.53
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD21	19	0.53
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD22	19	0.53
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD23	19	0.53
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD21	19	0.53
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD22	19	0.53
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD23	19	0.53
(1,814)	1:417:A:LYS:HD2	1:419:A:ASP:H	17	0.53
(1,700)	1:427:A:GLU:HG3	1:427:A:GLU:H	2	0.53
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB3	11	0.53
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE3	2	0.53
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD21	25	0.53
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD22	25	0.53
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD23	25	0.53
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	29	0.53
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	30	0.53
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	32	0.53
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	33	0.53
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	11	0.53
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	13	0.52
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG22	6	0.52
(1,1238)	1:420:A:VAL:HG13	1:421:A:LYS:HG3	34	0.52
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	9	0.52
(1,1110)	1:429:A:LYS:HG2	1:430:A:GLU:H	30	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1079)	1:386:A:ILE:HG12	1:383:A:LYS:HG3	33	0.52
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	13	0.52
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	10	0.52
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD1	30	0.52
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD2	30	0.52
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	11	0.52
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	19	0.52
(1,414)	1:412:A:ASN:HD21	1:392:A:ASP:HB3	34	0.52
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	8	0.52
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	10	0.52
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	19	0.52
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	2	0.52
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD3	17	0.52
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	7	0.52
(1,1237)	1:386:A:ILE:HD12	1:403:A:LYS:HB3	19	0.51
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	9	0.51
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	22	0.51
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	21	0.51
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD2	12	0.51
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG21	5	0.51
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG22	5	0.51
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG23	5	0.51
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	3	0.51
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	3	0.51
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	3	0.51
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	2	0.51
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	22	0.51
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	26	0.51
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD2	19	0.51
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	4	0.51
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	16	0.51
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	31	0.51
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	32	0.51
(1,85)	1:398:A:GLU:H	1:398:A:GLU:HB2	34	0.51
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	13	0.51
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	18	0.51
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	22	0.51
(1,66)	1:389:A:ALA:H	1:385:A:LYS:HD3	7	0.51
(1,1238)	1:420:A:VAL:HG13	1:421:A:LYS:HG3	13	0.5
(1,1228)	1:407:A:PHE:HZ	1:394:A:GLN:HB3	28	0.5
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	1	0.5
(1,1159)	1:425:A:GLU:HA	1:421:A:LYS:HG2	20	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1137)	1:421:A:LYS:HB3	1:419:A:ASP:H	7	0.5
(1,1110)	1:390:A:ALA:HB2	1:414:A:CYS:H	17	0.5
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	32	0.5
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG23	21	0.5
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG21	20	0.5
(1,839)	1:395:A:LYS:HB3	1:393:A:ASN:HD22	26	0.5
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD1	18	0.5
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD2	18	0.5
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	13	0.5
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	26	0.5
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	29	0.5
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	9	0.5
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	12	0.5
(1,287)	1:416:A:LEU:H	1:415:A:GLU:HG3	23	0.5
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	10	0.5
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	32	0.5
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	34	0.5
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD3	15	0.5
(1,1236)	1:386:A:ILE:HG23	1:403:A:LYS:HD2	29	0.49
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	22	0.49
(1,1137)	1:421:A:LYS:HB3	1:419:A:ASP:H	21	0.49
(1,1110)	1:390:A:ALA:HB2	1:414:A:CYS:H	25	0.49
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	8	0.49
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	24	0.49
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD3	1	0.49
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG21	9	0.49
(1,1002)	1:404:A:GLY:H	1:417:A:LYS:HD3	18	0.49
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	13	0.49
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	13	0.49
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	13	0.49
(1,902)	1:407:A:PHE:HA	1:394:A:GLN:HG3	24	0.49
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB2	25	0.49
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	3	0.49
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	15	0.49
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	31	0.49
(1,1192)	1:384:A:GLU:HG2	1:381:A:GLU:HA	4	0.48
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	28	0.48
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	28	0.48
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	35	0.48
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD2	1	0.48
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG23	30	0.48
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	1	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	1	0.48
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	1	0.48
(1,895)	1:406:A:VAL:HA	1:401:A:LYS:HE2	19	0.48
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	13	0.48
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	7	0.48
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE3	17	0.48
(1,308)	1:418:A:LYS:H	1:415:A:GLU:HB3	29	0.48
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	13	0.48
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	20	0.48
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	27	0.48
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	35	0.48
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	10	0.48
(1,1192)	1:384:A:GLU:HG2	1:381:A:GLU:HA	32	0.47
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	5	0.47
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	2	0.47
(1,1110)	1:390:A:ALA:HB3	1:414:A:CYS:H	14	0.47
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG23	27	0.47
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG22	16	0.47
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	26	0.47
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG3	13	0.47
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD11	11	0.47
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD12	11	0.47
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD13	11	0.47
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	14	0.47
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	14	0.47
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	14	0.47
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	30	0.47
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	30	0.47
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	30	0.47
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	18	0.47
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	21	0.47
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	13	0.47
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	5	0.47
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	11	0.47
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	3	0.47
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD21	22	0.47
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD22	22	0.47
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD23	22	0.47
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	16	0.47
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	1	0.47
(1,1237)	1:386:A:ILE:HD13	1:403:A:LYS:HB3	11	0.46
(1,1228)	1:407:A:PHE:HZ	1:409:A:THR:HG21	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1198)	1:407:A:PHE:HD2	1:409:A:THR:HG21	12	0.46
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	22	0.46
(1,1140)	1:390:A:ALA:HB2	1:415:A:GLU:H	35	0.46
(1,1137)	1:417:A:LYS:HB3	1:419:A:ASP:H	16	0.46
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG23	28	0.46
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB2	2	0.46
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG3	4	0.46
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	14	0.46
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	23	0.46
(1,700)	1:427:A:GLU:HG3	1:427:A:GLU:H	21	0.46
(1,533)	1:384:A:GLU:HG2	1:416:A:LEU:HD21	5	0.46
(1,533)	1:384:A:GLU:HG2	1:416:A:LEU:HD22	5	0.46
(1,533)	1:384:A:GLU:HG2	1:416:A:LEU:HD23	5	0.46
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	6	0.46
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	34	0.46
(1,508)	1:416:A:LEU:HD21	1:384:A:GLU:HA	27	0.46
(1,508)	1:416:A:LEU:HD22	1:384:A:GLU:HA	27	0.46
(1,508)	1:416:A:LEU:HD23	1:384:A:GLU:HA	27	0.46
(1,447)	1:382:A:ASN:HD22	1:378:A:GLU:HG2	7	0.46
(1,447)	1:382:A:ASN:HD22	1:378:A:GLU:HG2	13	0.46
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	32	0.46
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	32	0.46
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	28	0.46
(1,1244)	1:403:A:LYS:HE2	1:386:A:ILE:HD11	3	0.45
(1,1238)	1:420:A:VAL:HG13	1:421:A:LYS:HG3	4	0.45
(1,1238)	1:420:A:VAL:HG13	1:423:A:LYS:HG3	30	0.45
(1,1177)	1:404:A:GLY:HA3	1:416:A:LEU:HD12	10	0.45
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	5	0.45
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	29	0.45
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG2	11	0.45
(1,1141)	1:386:A:ILE:HD11	1:403:A:LYS:HE2	3	0.45
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	3	0.45
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	28	0.45
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD12	11	0.45
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB3	3	0.45
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE3	13	0.45
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG22	22	0.45
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB2	25	0.45
(1,755)	1:384:A:GLU:HG3	1:388:A:ASN:HD22	8	0.45
(1,682)	1:421:A:LYS:HB3	1:422:A:GLU:H	10	0.45
(1,444)	1:382:A:ASN:HD22	1:386:A:ILE:HD11	7	0.45
(1,444)	1:382:A:ASN:HD22	1:386:A:ILE:HD12	7	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,444)	1:382:A:ASN:HD22	1:386:A:ILE:HD13	7	0.45
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	29	0.45
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE2	14	0.45
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE3	25	0.45
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	8	0.45
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	9	0.45
(1,1228)	1:407:A:PHE:HZ	1:394:A:GLN:HB3	14	0.44
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	18	0.44
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	7	0.44
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	24	0.44
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	2	0.44
(1,1110)	1:429:A:LYS:HG3	1:430:A:GLU:H	5	0.44
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	1	0.44
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	12	0.44
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	20	0.44
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD11	2	0.44
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD12	2	0.44
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD13	2	0.44
(1,814)	1:417:A:LYS:HD2	1:419:A:ASP:H	11	0.44
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	8	0.44
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE2	24	0.44
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE3	35	0.44
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	5	0.44
(1,130)	1:398:A:GLU:H	1:394:A:GLN:HB2	13	0.44
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	20	0.44
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	23	0.44
(1,1238)	1:420:A:VAL:HG13	1:421:A:LYS:HG3	20	0.43
(1,1228)	1:407:A:PHE:HZ	1:394:A:GLN:HB3	29	0.43
(1,1228)	1:407:A:PHE:HZ	1:394:A:GLN:HB3	32	0.43
(1,1177)	1:404:A:GLY:HA3	1:416:A:LEU:HD12	9	0.43
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	35	0.43
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	10	0.43
(1,1110)	1:390:A:ALA:HB3	1:414:A:CYS:H	29	0.43
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD12	21	0.43
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	25	0.43
(1,1006)	1:415:A:GLU:H	1:408:A:ASN:HB2	34	0.43
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	10	0.43
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD1	16	0.43
(1,798)	1:414:A:CYS:HB2	1:407:A:PHE:HD2	16	0.43
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	1	0.43
(1,447)	1:382:A:ASN:HD22	1:378:A:GLU:HG3	21	0.43
(1,447)	1:382:A:ASN:HD22	1:378:A:GLU:HG2	28	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	12	0.43
(1,399)	1:388:A:ASN:HD22	1:384:A:GLU:HB2	25	0.43
(1,312)	1:420:A:VAL:H	1:417:A:LYS:HG3	2	0.43
(1,287)	1:416:A:LEU:H	1:415:A:GLU:HG3	26	0.43
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD21	30	0.43
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD22	30	0.43
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD23	30	0.43
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	15	0.43
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	8	0.43
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	15	0.43
(1,1236)	1:386:A:ILE:HG23	1:403:A:LYS:HD2	22	0.42
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	22	0.42
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	25	0.42
(1,1046)	1:399:A:ASN:HD22	1:396:A:ALA:HB2	27	0.42
(1,839)	1:395:A:LYS:HB2	1:393:A:ASN:HD22	18	0.42
(1,530)	1:406:A:VAL:HG21	1:417:A:LYS:HA	28	0.42
(1,530)	1:406:A:VAL:HG22	1:417:A:LYS:HA	28	0.42
(1,530)	1:406:A:VAL:HG23	1:417:A:LYS:HA	28	0.42
(1,444)	1:382:A:ASN:HD22	1:386:A:ILE:HD11	21	0.42
(1,444)	1:382:A:ASN:HD22	1:386:A:ILE:HD12	21	0.42
(1,444)	1:382:A:ASN:HD22	1:386:A:ILE:HD13	21	0.42
(1,191)	1:388:A:ASN:H	1:385:A:LYS:HB3	7	0.42
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	29	0.42
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	6	0.42
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	14	0.42
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG21	11	0.41
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	21	0.41
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	30	0.41
(1,1156)	1:417:A:LYS:HA	1:417:A:LYS:HD2	22	0.41
(1,1142)	1:386:A:ILE:HG21	1:403:A:LYS:HE2	9	0.41
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	18	0.41
(1,1137)	1:421:A:LYS:HB3	1:419:A:ASP:H	2	0.41
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD11	7	0.41
(1,1045)	1:388:A:ASN:HD21	1:413:A:LYS:HB2	23	0.41
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD3	17	0.41
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE3	16	0.41
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG22	6	0.41
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	20	0.41
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	20	0.41
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	20	0.41
(1,409)	1:388:A:ASN:HD21	1:415:A:GLU:HG3	33	0.41
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE2	4	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	15	0.41
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	15	0.41
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	25	0.41
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	33	0.41
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	34	0.41
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD3	33	0.41
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG2	32	0.41
(1,1228)	1:407:A:PHE:HZ	1:409:A:THR:HG22	7	0.4
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	14	0.4
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	17	0.4
(1,1142)	1:386:A:ILE:HG23	1:403:A:LYS:HE3	29	0.4
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	17	0.4
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	30	0.4
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	34	0.4
(1,1057)	1:425:A:GLU:H	1:421:A:LYS:HB2	9	0.4
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	29	0.4
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE3	26	0.4
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD11	18	0.4
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD12	18	0.4
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD13	18	0.4
(1,808)	1:426:A:LYS:HG3	1:426:A:LYS:H	18	0.4
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD11	22	0.4
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD12	22	0.4
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD13	22	0.4
(1,404)	1:388:A:ASN:HD22	1:415:A:GLU:HG2	12	0.4
(1,377)	1:428:A:SER:H	1:426:A:LYS:HB2	10	0.4
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	11	0.4
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	33	0.4
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD21	1	0.4
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD22	1	0.4
(1,127)	1:398:A:GLU:H	1:400:A:LEU:HD23	1	0.4
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	23	0.4
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	26	0.4
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	33	0.4
(1,1244)	1:403:A:LYS:HE2	1:386:A:ILE:HD12	18	0.39
(1,1237)	1:386:A:ILE:HD13	1:403:A:LYS:HB3	31	0.39
(1,1203)	1:407:A:PHE:HE2	1:409:A:THR:HG22	12	0.39
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	23	0.39
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	25	0.39
(1,1142)	1:386:A:ILE:HG21	1:403:A:LYS:HE3	17	0.39
(1,1141)	1:386:A:ILE:HD12	1:403:A:LYS:HE2	18	0.39
(1,1067)	1:402:A:GLU:HG2	1:403:A:LYS:HG3	29	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD11	6	0.39
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE3	19	0.39
(1,839)	1:395:A:LYS:HB3	1:393:A:ASN:HD22	28	0.39
(1,814)	1:417:A:LYS:HD2	1:419:A:ASP:H	10	0.39
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	4	0.39
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD2	1	0.39
(1,193)	1:388:A:ASN:H	1:384:A:GLU:HG2	8	0.39
(1,1244)	1:383:A:LYS:HE3	1:386:A:ILE:HD13	27	0.38
(1,1141)	1:386:A:ILE:HD13	1:383:A:LYS:HE3	27	0.38
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	3	0.38
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	24	0.38
(1,1067)	1:408:A:ASN:HB2	1:413:A:LYS:HD2	28	0.38
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG21	23	0.38
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	31	0.38
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	31	0.38
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	31	0.38
(1,951)	1:407:A:PHE:HD1	1:394:A:GLN:HG3	28	0.38
(1,951)	1:407:A:PHE:HD2	1:394:A:GLN:HG3	28	0.38
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	30	0.38
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	8	0.38
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD11	11	0.38
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD12	11	0.38
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD13	11	0.38
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	4	0.38
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD3	4	0.38
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE3	8	0.38
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	7	0.38
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	14	0.38
(1,76)	1:408:A:ASN:H	1:413:A:LYS:HG2	33	0.38
(1,1244)	1:403:A:LYS:HE2	1:386:A:ILE:HD13	9	0.37
(1,1228)	1:407:A:PHE:HZ	1:394:A:GLN:HB3	17	0.37
(1,1209)	1:414:A:CYS:H	1:390:A:ALA:HB1	20	0.37
(1,1194)	1:438:A:ALA:HB2	1:437:A:LYS:HA	35	0.37
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	8	0.37
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	20	0.37
(1,1141)	1:386:A:ILE:HD13	1:403:A:LYS:HE2	9	0.37
(1,1079)	1:386:A:ILE:HG12	1:383:A:LYS:HG3	16	0.37
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB1	34	0.37
(1,839)	1:395:A:LYS:HB3	1:393:A:ASN:HD22	13	0.37
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	33	0.37
(1,508)	1:416:A:LEU:HD21	1:384:A:GLU:HA	25	0.37
(1,508)	1:416:A:LEU:HD22	1:384:A:GLU:HA	25	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,508)	1:416:A:LEU:HD23	1:384:A:GLU:HA	25	0.37
(1,506)	1:413:A:LYS:HE3	1:411:A:SER:HB3	32	0.37
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD3	13	0.37
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB3	32	0.37
(1,325)	1:421:A:LYS:H	1:421:A:LYS:HE3	9	0.37
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	30	0.37
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	5	0.37
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	3	0.37
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	21	0.37
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	31	0.37
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	4	0.37
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	28	0.37
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	34	0.37
(1,1243)	1:418:A:LYS:HE3	1:416:A:LEU:HD12	2	0.36
(1,1159)	1:425:A:GLU:HA	1:421:A:LYS:HG2	23	0.36
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	25	0.36
(1,1156)	1:417:A:LYS:HA	1:417:A:LYS:HD3	11	0.36
(1,1142)	1:416:A:LEU:HD12	1:418:A:LYS:HE3	2	0.36
(1,1137)	1:417:A:LYS:HB3	1:419:A:ASP:H	10	0.36
(1,1078)	1:407:A:PHE:HB3	1:397:A:CYS:HB2	28	0.36
(1,1057)	1:425:A:GLU:H	1:421:A:LYS:HB2	1	0.36
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD2	30	0.36
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE2	23	0.36
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG3	14	0.36
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG22	32	0.36
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG22	4	0.36
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	8	0.36
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD11	1	0.36
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD12	1	0.36
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD13	1	0.36
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD21	27	0.36
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD22	27	0.36
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD23	27	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	8	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	8	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	8	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	26	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	26	0.36
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	26	0.36
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	16	0.36
(1,626)	1:432:A:GLU:HA	1:433:A:GLY:H	11	0.36
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB3	27	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	3	0.36
(1,155)	1:395:A:LYS:H	1:393:A:ASN:HD22	24	0.36
(1,134)	1:397:A:CYS:H	1:414:A:CYS:HB2	30	0.36
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD21	19	0.36
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD22	19	0.36
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD23	19	0.36
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	35	0.36
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	1	0.36
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	25	0.36
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	8	0.36
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG21	32	0.35
(1,1206)	1:399:A:ASN:HD21	1:399:A:ASN:HB2	29	0.35
(1,1206)	1:399:A:ASN:HD21	1:399:A:ASN:HB2	33	0.35
(1,1194)	1:438:A:ALA:HB1	1:437:A:LYS:HA	32	0.35
(1,1177)	1:404:A:GLY:HA3	1:416:A:LEU:HD12	28	0.35
(1,1139)	1:433:A:GLY:HA3	1:435:A:ASP:H	12	0.35
(1,1137)	1:421:A:LYS:HB3	1:419:A:ASP:H	35	0.35
(1,1042)	1:388:A:ASN:HD22	1:413:A:LYS:HB2	2	0.35
(1,1042)	1:388:A:ASN:HD22	1:413:A:LYS:HB2	30	0.35
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	21	0.35
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG21	31	0.35
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE3	32	0.35
(1,902)	1:407:A:PHE:HA	1:394:A:GLN:HG3	34	0.35
(1,839)	1:395:A:LYS:HB3	1:393:A:ASN:HD22	33	0.35
(1,783)	1:418:A:LYS:HG2	1:419:A:ASP:H	13	0.35
(1,700)	1:427:A:GLU:HG2	1:427:A:GLU:H	24	0.35
(1,436)	1:382:A:ASN:HD22	1:385:A:LYS:HB2	21	0.35
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD3	3	0.35
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	3	0.35
(1,134)	1:397:A:CYS:H	1:414:A:CYS:HB2	18	0.35
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	12	0.35
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD3	15	0.35
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD3	16	0.35
(1,1238)	1:420:A:VAL:HG12	1:423:A:LYS:HG3	11	0.34
(1,1238)	1:420:A:VAL:HG11	1:423:A:LYS:HG3	35	0.34
(1,1192)	1:384:A:GLU:HG2	1:381:A:GLU:HA	13	0.34
(1,1192)	1:384:A:GLU:HG2	1:381:A:GLU:HA	23	0.34
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD2	23	0.34
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD11	24	0.34
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD12	24	0.34
(1,987)	1:403:A:LYS:HB2	1:400:A:LEU:HD13	24	0.34
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	12	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,814)	1:417:A:LYS:HD2	1:419:A:ASP:H	24	0.34
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD21	17	0.34
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD22	17	0.34
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD23	17	0.34
(1,546)	1:424:A:LEU:HA	1:424:A:LEU:HD11	33	0.34
(1,546)	1:424:A:LEU:HA	1:424:A:LEU:HD12	33	0.34
(1,546)	1:424:A:LEU:HA	1:424:A:LEU:HD13	33	0.34
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD11	30	0.34
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD12	30	0.34
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD13	30	0.34
(1,474)	1:426:A:LYS:H	1:425:A:GLU:HB2	24	0.34
(1,437)	1:382:A:ASN:HD21	1:378:A:GLU:HG2	7	0.34
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	6	0.34
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	7	0.34
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB2	27	0.34
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD21	18	0.34
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD22	18	0.34
(1,244)	1:380:A:ALA:H	1:416:A:LEU:HD23	18	0.34
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	2	0.34
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	29	0.34
(1,1198)	1:407:A:PHE:HD2	1:409:A:THR:HG23	17	0.33
(1,1137)	1:417:A:LYS:HB3	1:419:A:ASP:H	26	0.33
(1,1110)	1:390:A:ALA:HB1	1:414:A:CYS:H	23	0.33
(1,1079)	1:386:A:ILE:HG12	1:383:A:LYS:HG3	21	0.33
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	14	0.33
(1,1040)	1:429:A:LYS:H	1:426:A:LYS:HA	26	0.33
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	13	0.33
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD21	26	0.33
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD22	26	0.33
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD23	26	0.33
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	6	0.33
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	6	0.33
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	6	0.33
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	21	0.33
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	21	0.33
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	21	0.33
(1,755)	1:384:A:GLU:HG3	1:388:A:ASN:HD22	30	0.33
(1,641)	1:401:A:LYS:HB3	1:401:A:LYS:H	22	0.33
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD11	14	0.33
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD12	14	0.33
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD13	14	0.33
(1,470)	1:430:A:GLU:H	1:428:A:SER:HB2	18	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	13	0.33
(1,305)	1:418:A:LYS:H	1:418:A:LYS:HE2	13	0.33
(1,135)	1:397:A:CYS:H	1:398:A:GLU:HG2	24	0.33
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	6	0.33
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	14	0.33
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	31	0.33
(1,58)	1:404:A:GLY:H	1:401:A:LYS:HD3	33	0.33
(1,1244)	1:383:A:LYS:HE2	1:386:A:ILE:HD12	13	0.32
(1,1244)	1:403:A:LYS:HE3	1:386:A:ILE:HD13	17	0.32
(1,1209)	1:430:A:GLU:H	1:429:A:LYS:HG2	30	0.32
(1,1192)	1:384:A:GLU:HG2	1:381:A:GLU:HA	15	0.32
(1,1186)	1:422:A:GLU:HG2	1:423:A:LYS:HA	13	0.32
(1,1141)	1:386:A:ILE:HD12	1:383:A:LYS:HE2	13	0.32
(1,1141)	1:386:A:ILE:HD13	1:403:A:LYS:HE3	17	0.32
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	27	0.32
(1,1110)	1:429:A:LYS:HG2	1:430:A:GLU:H	12	0.32
(1,1057)	1:425:A:GLU:H	1:421:A:LYS:HB2	24	0.32
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	18	0.32
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE2	9	0.32
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG2	35	0.32
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG3	16	0.32
(1,942)	1:399:A:ASN:H	1:399:A:ASN:HB2	33	0.32
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	20	0.32
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	24	0.32
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD21	26	0.32
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD22	26	0.32
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD23	26	0.32
(1,377)	1:428:A:SER:H	1:426:A:LYS:HB3	33	0.32
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	16	0.32
(1,196)	1:385:A:LYS:H	1:385:A:LYS:HD2	30	0.32
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	17	0.32
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	10	0.32
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	10	0.32
(1,1244)	1:383:A:LYS:HE2	1:386:A:ILE:HD13	26	0.31
(1,1238)	1:420:A:VAL:HG12	1:423:A:LYS:HG3	9	0.31
(1,1238)	1:420:A:VAL:HG11	1:421:A:LYS:HG3	27	0.31
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG2	26	0.31
(1,1159)	1:431:A:THR:HB	1:434:A:LYS:HG2	29	0.31
(1,1141)	1:386:A:ILE:HD13	1:383:A:LYS:HE2	26	0.31
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG3	7	0.31
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG3	16	0.31
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB1	9	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB1	22	0.31
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG11	16	0.31
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG12	16	0.31
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG13	16	0.31
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	30	0.31
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	3	0.31
(1,674)	1:418:A:LYS:HB2	1:419:A:ASP:H	5	0.31
(1,416)	1:388:A:ASN:HD21	1:413:A:LYS:HG3	4	0.31
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	33	0.31
(1,199)	1:383:A:LYS:H	1:383:A:LYS:HD2	13	0.31
(1,155)	1:395:A:LYS:H	1:393:A:ASN:HD22	25	0.31
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	27	0.31
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	11	0.31
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	13	0.31
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	24	0.31
(1,1209)	1:414:A:CYS:H	1:390:A:ALA:HB2	17	0.3
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	10	0.3
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	12	0.3
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG2	17	0.3
(1,1139)	1:433:A:GLY:HA2	1:435:A:ASP:H	26	0.3
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	15	0.3
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG2	24	0.3
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG3	34	0.3
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD21	1	0.3
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD22	1	0.3
(1,979)	1:389:A:ALA:HB1	1:400:A:LEU:HD23	1	0.3
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD21	1	0.3
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD22	1	0.3
(1,979)	1:389:A:ALA:HB2	1:400:A:LEU:HD23	1	0.3
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD21	1	0.3
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD22	1	0.3
(1,979)	1:389:A:ALA:HB3	1:400:A:LEU:HD23	1	0.3
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	5	0.3
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	5	0.3
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	5	0.3
(1,839)	1:395:A:LYS:HB3	1:393:A:ASN:HD22	25	0.3
(1,828)	1:397:A:CYS:HB2	1:407:A:PHE:H	17	0.3
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	26	0.3
(1,806)	1:417:A:LYS:HG3	1:419:A:ASP:H	29	0.3
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD11	22	0.3
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD12	22	0.3
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD13	22	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,312)	1:420:A:VAL:H	1:417:A:LYS:HG2	13	0.3
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE2	5	0.3
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	5	0.3
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	26	0.3
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	29	0.3
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	34	0.3
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	29	0.3
(1,227)	1:381:A:GLU:H	1:379:A:SER:HB3	28	0.3
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	24	0.3
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	6	0.3
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	5	0.3
(2,10)	1:416:A:LEU:HD11	1:384:A:GLU:HG3	8	0.29
(2,10)	1:416:A:LEU:HD12	1:384:A:GLU:HG3	8	0.29
(2,10)	1:416:A:LEU:HD13	1:384:A:GLU:HG3	8	0.29
(1,1209)	1:414:A:CYS:H	1:390:A:ALA:HB2	25	0.29
(1,1175)	1:407:A:PHE:HA	1:394:A:GLN:HG3	24	0.29
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	31	0.29
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	19	0.29
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	18	0.29
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD11	30	0.29
(1,1040)	1:429:A:LYS:H	1:425:A:GLU:HA	25	0.29
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	7	0.29
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	9	0.29
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD3	13	0.29
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG3	8	0.29
(1,805)	1:384:A:GLU:HG3	1:388:A:ASN:HD21	30	0.29
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD11	19	0.29
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD12	19	0.29
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD13	19	0.29
(1,447)	1:382:A:ASN:HD22	1:378:A:GLU:HG3	19	0.29
(1,372)	1:429:A:LYS:H	1:430:A:GLU:HB3	8	0.29
(1,308)	1:418:A:LYS:H	1:415:A:GLU:HB3	31	0.29
(1,303)	1:417:A:LYS:H	1:404:A:GLY:HA3	4	0.29
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB2	7	0.29
(1,229)	1:379:A:SER:H	1:382:A:ASN:HB3	2	0.29
(1,184)	1:391:A:LYS:H	1:414:A:CYS:HB3	27	0.29
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	15	0.29
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	2	0.28
(1,1103)	1:396:A:ALA:HB1	1:393:A:ASN:H	33	0.28
(1,1067)	1:402:A:GLU:HG3	1:403:A:LYS:HG3	19	0.28
(1,1050)	1:382:A:ASN:HD22	1:386:A:ILE:HB	33	0.28
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	6	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	34	0.28
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG22	14	0.28
(1,1005)	1:407:A:PHE:H	1:409:A:THR:HG22	15	0.28
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG11	32	0.28
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG12	32	0.28
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG13	32	0.28
(1,692)	1:382:A:ASN:HB3	1:383:A:LYS:H	4	0.28
(1,682)	1:421:A:LYS:HB3	1:422:A:GLU:H	6	0.28
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD11	16	0.28
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD12	16	0.28
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD13	16	0.28
(1,530)	1:406:A:VAL:HG11	1:417:A:LYS:HA	13	0.28
(1,530)	1:406:A:VAL:HG12	1:417:A:LYS:HA	13	0.28
(1,530)	1:406:A:VAL:HG13	1:417:A:LYS:HA	13	0.28
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	19	0.28
(1,372)	1:429:A:LYS:H	1:430:A:GLU:HB3	11	0.28
(1,339)	1:422:A:GLU:H	1:419:A:ASP:HB2	32	0.28
(1,312)	1:420:A:VAL:H	1:417:A:LYS:HG2	6	0.28
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	8	0.28
(1,199)	1:383:A:LYS:H	1:383:A:LYS:HD2	15	0.28
(1,178)	1:393:A:ASN:H	1:391:A:LYS:HG3	11	0.28
(1,134)	1:397:A:CYS:H	1:414:A:CYS:HB2	16	0.28
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD21	24	0.28
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD22	24	0.28
(1,131)	1:397:A:CYS:H	1:400:A:LEU:HD23	24	0.28
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	28	0.28
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	26	0.28
(1,1244)	1:403:A:LYS:HE3	1:386:A:ILE:HD13	21	0.27
(1,1238)	1:420:A:VAL:HG12	1:423:A:LYS:HG3	24	0.27
(1,1228)	1:407:A:PHE:HZ	1:394:A:GLN:HB3	6	0.27
(1,1217)	1:417:A:LYS:H	1:417:A:LYS:HG3	35	0.27
(1,1209)	1:414:A:CYS:H	1:390:A:ALA:HB3	14	0.27
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	3	0.27
(1,1164)	1:375:A:GLN:HA	1:376:A:GLN:HB2	4	0.27
(1,1128)	1:416:A:LEU:HB2	1:384:A:GLU:H	34	0.27
(1,1057)	1:425:A:GLU:H	1:421:A:LYS:HB2	25	0.27
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE3	30	0.27
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG2	13	0.27
(1,1013)	1:395:A:LYS:H	1:395:A:LYS:HE3	20	0.27
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG22	2	0.27
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	5	0.27
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	5	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	5	0.27
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	16	0.27
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	14	0.27
(1,700)	1:427:A:GLU:HG2	1:427:A:GLU:H	18	0.27
(1,685)	1:397:A:CYS:HB2	1:407:A:PHE:HD1	7	0.27
(1,685)	1:397:A:CYS:HB2	1:407:A:PHE:HD2	7	0.27
(1,626)	1:432:A:GLU:HA	1:433:A:GLY:H	1	0.27
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD11	1	0.27
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD12	1	0.27
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD13	1	0.27
(1,530)	1:406:A:VAL:HG11	1:417:A:LYS:HA	14	0.27
(1,530)	1:406:A:VAL:HG12	1:417:A:LYS:HA	14	0.27
(1,530)	1:406:A:VAL:HG13	1:417:A:LYS:HA	14	0.27
(1,506)	1:413:A:LYS:HE2	1:411:A:SER:HB3	33	0.27
(1,416)	1:388:A:ASN:HD21	1:413:A:LYS:HG3	29	0.27
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	21	0.27
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE2	19	0.27
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB3	8	0.27
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	23	0.27
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE2	21	0.27
(1,134)	1:397:A:CYS:H	1:414:A:CYS:HB2	20	0.27
(1,133)	1:397:A:CYS:H	1:398:A:GLU:HB2	34	0.27
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	13	0.27
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	9	0.27
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	3	0.27
(1,1203)	1:407:A:PHE:HE2	1:409:A:THR:HG21	17	0.26
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	16	0.26
(1,1160)	1:385:A:LYS:HA	1:385:A:LYS:HD2	19	0.26
(1,1140)	1:390:A:ALA:HB3	1:415:A:GLU:H	14	0.26
(1,1139)	1:385:A:LYS:HA	1:384:A:GLU:H	4	0.26
(1,1029)	1:418:A:LYS:H	1:418:A:LYS:HG3	26	0.26
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB2	35	0.26
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	24	0.26
(1,815)	1:400:A:LEU:HD11	1:401:A:LYS:H	24	0.26
(1,815)	1:400:A:LEU:HD12	1:401:A:LYS:H	24	0.26
(1,815)	1:400:A:LEU:HD13	1:401:A:LYS:H	24	0.26
(1,723)	1:429:A:LYS:HG3	1:429:A:LYS:H	24	0.26
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD11	22	0.26
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD12	22	0.26
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD13	22	0.26
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD11	24	0.26
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD12	24	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,543)	1:400:A:LEU:HA	1:400:A:LEU:HD13	24	0.26
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD21	13	0.26
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD22	13	0.26
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD23	13	0.26
(1,416)	1:388:A:ASN:HD21	1:413:A:LYS:HG3	3	0.26
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD3	10	0.26
(1,409)	1:388:A:ASN:HD21	1:415:A:GLU:HG3	4	0.26
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB3	15	0.26
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE3	16	0.26
(1,193)	1:388:A:ASN:H	1:384:A:GLU:HG2	30	0.26
(1,97)	1:399:A:ASN:H	1:398:A:GLU:HB2	34	0.26
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	16	0.26
(1,31)	1:390:A:ALA:H	1:414:A:CYS:HB3	16	0.26
(1,1238)	1:420:A:VAL:HG13	1:421:A:LYS:HG3	2	0.25
(1,1192)	1:384:A:GLU:HG2	1:381:A:GLU:HA	24	0.25
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	22	0.25
(1,1142)	1:386:A:ILE:HG23	1:403:A:LYS:HE3	26	0.25
(1,1140)	1:390:A:ALA:HB2	1:415:A:GLU:H	33	0.25
(1,1139)	1:433:A:GLY:HA2	1:435:A:ASP:H	1	0.25
(1,1137)	1:421:A:LYS:HB3	1:419:A:ASP:H	34	0.25
(1,1080)	1:417:A:LYS:HA	1:417:A:LYS:H	2	0.25
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD11	24	0.25
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	15	0.25
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG21	21	0.25
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB1	3	0.25
(1,1005)	1:415:A:GLU:H	1:390:A:ALA:HB3	28	0.25
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD11	22	0.25
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD12	22	0.25
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD13	22	0.25
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	34	0.25
(1,917)	1:384:A:GLU:HB3	1:381:A:GLU:HA	31	0.25
(1,814)	1:417:A:LYS:HD2	1:419:A:ASP:H	35	0.25
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	34	0.25
(1,533)	1:384:A:GLU:HG2	1:416:A:LEU:HD21	3	0.25
(1,533)	1:384:A:GLU:HG2	1:416:A:LEU:HD22	3	0.25
(1,533)	1:384:A:GLU:HG2	1:416:A:LEU:HD23	3	0.25
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD21	6	0.25
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD22	6	0.25
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD23	6	0.25
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD21	28	0.25
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD22	28	0.25
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD23	28	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,530)	1:406:A:VAL:HG11	1:417:A:LYS:HA	17	0.25
(1,530)	1:406:A:VAL:HG12	1:417:A:LYS:HA	17	0.25
(1,530)	1:406:A:VAL:HG13	1:417:A:LYS:HA	17	0.25
(1,530)	1:406:A:VAL:HG11	1:417:A:LYS:HA	24	0.25
(1,530)	1:406:A:VAL:HG12	1:417:A:LYS:HA	24	0.25
(1,530)	1:406:A:VAL:HG13	1:417:A:LYS:HA	24	0.25
(1,530)	1:406:A:VAL:HG11	1:417:A:LYS:HA	35	0.25
(1,530)	1:406:A:VAL:HG12	1:417:A:LYS:HA	35	0.25
(1,530)	1:406:A:VAL:HG13	1:417:A:LYS:HA	35	0.25
(1,372)	1:429:A:LYS:H	1:430:A:GLU:HB3	29	0.25
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB3	3	0.25
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB2	19	0.25
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	22	0.25
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	33	0.25
(1,196)	1:385:A:LYS:H	1:385:A:LYS:HD2	3	0.25
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE3	29	0.25
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	11	0.25
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD3	26	0.25
(1,1228)	1:407:A:PHE:HZ	1:394:A:GLN:HB3	11	0.24
(1,1209)	1:430:A:GLU:H	1:429:A:LYS:HG3	5	0.24
(1,965)	1:416:A:LEU:HD21	1:383:A:LYS:HB2	27	0.24
(1,965)	1:416:A:LEU:HD22	1:383:A:LYS:HB2	27	0.24
(1,965)	1:416:A:LEU:HD23	1:383:A:LYS:HB2	27	0.24
(1,661)	1:376:A:GLN:HA	1:377:A:THR:H	9	0.24
(1,532)	1:417:A:LYS:HB2	1:417:A:LYS:H	17	0.24
(1,498)	1:434:A:LYS:H	1:433:A:GLY:H	14	0.24
(1,485)	1:431:A:THR:H	1:432:A:GLU:H	25	0.24
(1,474)	1:426:A:LYS:H	1:425:A:GLU:HB2	3	0.24
(1,416)	1:388:A:ASN:HD21	1:413:A:LYS:HG3	10	0.24
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	2	0.24
(1,196)	1:385:A:LYS:H	1:385:A:LYS:HD2	33	0.24
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	17	0.24
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	20	0.24
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	32	0.24
(1,1209)	1:414:A:CYS:H	1:390:A:ALA:HB3	29	0.23
(1,1166)	1:396:A:ALA:HA	1:395:A:LYS:HB3	3	0.23
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	26	0.23
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	18	0.23
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	27	0.23
(1,1110)	1:429:A:LYS:HG3	1:430:A:GLU:H	24	0.23
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	12	0.23
(1,1039)	1:431:A:THR:H	1:430:A:GLU:HB3	15	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	33	0.23
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	3	0.23
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	19	0.23
(1,999)	1:405:A:CYS:H	1:403:A:LYS:HG3	7	0.23
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE3	33	0.23
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	22	0.23
(1,928)	1:423:A:LYS:HG3	1:423:A:LYS:HA	15	0.23
(1,814)	1:417:A:LYS:HD2	1:419:A:ASP:H	29	0.23
(1,806)	1:417:A:LYS:HG3	1:419:A:ASP:H	26	0.23
(1,700)	1:427:A:GLU:HG3	1:427:A:GLU:H	25	0.23
(1,640)	1:428:A:SER:HB3	1:428:A:SER:H	32	0.23
(1,566)	1:379:A:SER:HA	1:379:A:SER:HB3	8	0.23
(1,566)	1:379:A:SER:HA	1:379:A:SER:HB3	10	0.23
(1,566)	1:379:A:SER:HA	1:379:A:SER:HB3	14	0.23
(1,566)	1:379:A:SER:HA	1:379:A:SER:HB3	35	0.23
(1,311)	1:419:A:ASP:H	1:418:A:LYS:HE3	23	0.23
(1,308)	1:418:A:LYS:H	1:415:A:GLU:HB3	16	0.23
(1,267)	1:412:A:ASN:H	1:408:A:ASN:HD21	29	0.23
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	34	0.23
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	18	0.23
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	20	0.23
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	5	0.23
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	22	0.23
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	25	0.23
(1,1238)	1:420:A:VAL:HG13	1:421:A:LYS:HG3	19	0.22
(1,1194)	1:438:A:ALA:HB1	1:437:A:LYS:HA	29	0.22
(1,1177)	1:404:A:GLY:HA3	1:416:A:LEU:HD11	2	0.22
(1,1110)	1:390:A:ALA:HB1	1:414:A:CYS:H	22	0.22
(1,1103)	1:390:A:ALA:HB2	1:393:A:ASN:H	18	0.22
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	17	0.22
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	17	0.22
(1,1030)	1:417:A:LYS:H	1:418:A:LYS:HE3	12	0.22
(1,1025)	1:411:A:SER:H	1:413:A:LYS:HD2	5	0.22
(1,1025)	1:411:A:SER:H	1:409:A:THR:HG22	35	0.22
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG11	27	0.22
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG12	27	0.22
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG13	27	0.22
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	15	0.22
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	15	0.22
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	15	0.22
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	4	0.22
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	4	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	4	0.22
(1,835)	1:392:A:ASP:HB3	1:412:A:ASN:HD22	34	0.22
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	16	0.22
(1,806)	1:417:A:LYS:HG3	1:419:A:ASP:H	35	0.22
(1,768)	1:394:A:GLN:HB3	1:407:A:PHE:HZ	13	0.22
(1,711)	1:417:A:LYS:HD2	1:417:A:LYS:H	17	0.22
(1,674)	1:418:A:LYS:HB2	1:419:A:ASP:H	11	0.22
(1,661)	1:376:A:GLN:HA	1:377:A:THR:H	33	0.22
(1,637)	1:388:A:ASN:HA	1:388:A:ASN:HD21	23	0.22
(1,536)	1:427:A:GLU:H	1:428:A:SER:H	13	0.22
(1,530)	1:406:A:VAL:HG21	1:417:A:LYS:HA	22	0.22
(1,530)	1:406:A:VAL:HG22	1:417:A:LYS:HA	22	0.22
(1,530)	1:406:A:VAL:HG23	1:417:A:LYS:HA	22	0.22
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	25	0.22
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	32	0.22
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	9	0.22
(1,196)	1:385:A:LYS:H	1:385:A:LYS:HD2	10	0.22
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE3	22	0.22
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	12	0.22
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	24	0.22
(1,1244)	1:383:A:LYS:HE3	1:386:A:ILE:HD13	16	0.21
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG2	18	0.21
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	10	0.21
(1,1080)	1:417:A:LYS:HA	1:417:A:LYS:H	6	0.21
(1,1078)	1:407:A:PHE:HB3	1:397:A:CYS:HB2	13	0.21
(1,1067)	1:408:A:ASN:HB2	1:413:A:LYS:HD2	24	0.21
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	13	0.21
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	14	0.21
(1,1032)	1:419:A:ASP:H	1:418:A:LYS:HD2	26	0.21
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	1	0.21
(1,996)	1:406:A:VAL:H	1:417:A:LYS:HB2	10	0.21
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE2	18	0.21
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	28	0.21
(1,928)	1:423:A:LYS:HG3	1:423:A:LYS:HA	5	0.21
(1,928)	1:423:A:LYS:HG3	1:423:A:LYS:HA	21	0.21
(1,928)	1:423:A:LYS:HG3	1:423:A:LYS:HA	23	0.21
(1,899)	1:419:A:ASP:HA	1:422:A:GLU:HB3	16	0.21
(1,857)	1:383:A:LYS:HA	1:383:A:LYS:HD2	28	0.21
(1,835)	1:392:A:ASP:HB3	1:412:A:ASN:HD22	32	0.21
(1,815)	1:400:A:LEU:HD11	1:401:A:LYS:H	14	0.21
(1,815)	1:400:A:LEU:HD12	1:401:A:LYS:H	14	0.21
(1,815)	1:400:A:LEU:HD13	1:401:A:LYS:H	14	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,815)	1:400:A:LEU:HD11	1:401:A:LYS:H	22	0.21
(1,815)	1:400:A:LEU:HD12	1:401:A:LYS:H	22	0.21
(1,815)	1:400:A:LEU:HD13	1:401:A:LYS:H	22	0.21
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	14	0.21
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	17	0.21
(1,700)	1:427:A:GLU:HG2	1:427:A:GLU:H	7	0.21
(1,685)	1:397:A:CYS:HB2	1:407:A:PHE:HD1	17	0.21
(1,685)	1:397:A:CYS:HB2	1:407:A:PHE:HD2	17	0.21
(1,661)	1:376:A:GLN:HA	1:377:A:THR:H	23	0.21
(1,530)	1:406:A:VAL:HG21	1:417:A:LYS:HA	20	0.21
(1,530)	1:406:A:VAL:HG22	1:417:A:LYS:HA	20	0.21
(1,530)	1:406:A:VAL:HG23	1:417:A:LYS:HA	20	0.21
(1,463)	1:433:A:GLY:H	1:432:A:GLU:HB3	11	0.21
(1,312)	1:420:A:VAL:H	1:417:A:LYS:HG2	21	0.21
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	21	0.21
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	26	0.21
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	18	0.21
(1,252)	1:409:A:THR:H	1:406:A:VAL:HG21	3	0.21
(1,252)	1:409:A:THR:H	1:406:A:VAL:HG22	3	0.21
(1,252)	1:409:A:THR:H	1:406:A:VAL:HG23	3	0.21
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	12	0.21
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	1	0.21
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	9	0.21
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	22	0.21
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	8	0.21
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	8	0.21
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	10	0.21
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	10	0.21
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	12	0.21
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	12	0.21
(1,1217)	1:417:A:LYS:H	1:417:A:LYS:HG2	17	0.2
(1,1189)	1:418:A:LYS:HD3	1:418:A:LYS:HA	5	0.2
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	1	0.2
(1,1139)	1:433:A:GLY:HA2	1:435:A:ASP:H	9	0.2
(1,1137)	1:421:A:LYS:HB3	1:419:A:ASP:H	14	0.2
(1,1129)	1:384:A:GLU:HB3	1:383:A:LYS:H	4	0.2
(1,1129)	1:384:A:GLU:HB3	1:383:A:LYS:H	13	0.2
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	35	0.2
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	14	0.2
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	25	0.2
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	11	0.2
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	24	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD11	14	0.2
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD12	14	0.2
(1,988)	1:403:A:LYS:HB3	1:400:A:LEU:HD13	14	0.2
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	29	0.2
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	29	0.2
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	29	0.2
(1,942)	1:399:A:ASN:H	1:399:A:ASN:HB2	29	0.2
(1,883)	1:435:A:ASP:HA	1:439:A:ASN:HB3	8	0.2
(1,815)	1:400:A:LEU:HD11	1:401:A:LYS:H	1	0.2
(1,815)	1:400:A:LEU:HD12	1:401:A:LYS:H	1	0.2
(1,815)	1:400:A:LEU:HD13	1:401:A:LYS:H	1	0.2
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	27	0.2
(1,700)	1:427:A:GLU:HG3	1:427:A:GLU:H	29	0.2
(1,669)	1:414:A:CYS:HB3	1:414:A:CYS:H	20	0.2
(1,669)	1:414:A:CYS:HB3	1:414:A:CYS:H	30	0.2
(1,661)	1:376:A:GLN:HA	1:377:A:THR:H	1	0.2
(1,506)	1:413:A:LYS:HE2	1:411:A:SER:HB2	4	0.2
(1,485)	1:431:A:THR:H	1:432:A:GLU:H	15	0.2
(1,409)	1:388:A:ASN:HD21	1:415:A:GLU:HG2	8	0.2
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	7	0.2
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	18	0.2
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	34	0.2
(1,229)	1:379:A:SER:H	1:382:A:ASN:HB3	23	0.2
(1,184)	1:391:A:LYS:H	1:414:A:CYS:HB3	18	0.2
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	6	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	11	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	11	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	16	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	16	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	19	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	19	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	23	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	23	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	31	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	31	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	34	0.2
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	34	0.2
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG2	3	0.2
(1,1248)	1:407:A:PHE:HB2	1:394:A:GLN:HB3	27	0.19
(1,1227)	1:399:A:ASN:H	1:400:A:LEU:HD11	24	0.19
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	28	0.19
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	26	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1110)	1:390:A:ALA:HB3	1:414:A:CYS:H	10	0.19
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	12	0.19
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	24	0.19
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	22	0.19
(1,1079)	1:386:A:ILE:HG12	1:383:A:LYS:HG3	32	0.19
(1,1057)	1:425:A:GLU:H	1:421:A:LYS:HB2	15	0.19
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD13	1	0.19
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	20	0.19
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	34	0.19
(1,928)	1:423:A:LYS:HG3	1:423:A:LYS:HA	35	0.19
(1,769)	1:432:A:GLU:HG3	1:432:A:GLU:H	22	0.19
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	22	0.19
(1,669)	1:414:A:CYS:HB3	1:414:A:CYS:H	16	0.19
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD11	34	0.19
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD12	34	0.19
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD13	34	0.19
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD21	23	0.19
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD22	23	0.19
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD23	23	0.19
(1,468)	1:427:A:GLU:H	1:426:A:LYS:HB2	18	0.19
(1,409)	1:388:A:ASN:HD21	1:415:A:GLU:HG3	3	0.19
(1,308)	1:418:A:LYS:H	1:415:A:GLU:HB3	35	0.19
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	28	0.19
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	27	0.19
(1,229)	1:379:A:SER:H	1:382:A:ASN:HB3	31	0.19
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	18	0.19
(1,199)	1:383:A:LYS:H	1:383:A:LYS:HD3	33	0.19
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	18	0.19
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	23	0.19
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	3	0.19
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	3	0.19
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	20	0.19
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	20	0.19
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	26	0.19
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	26	0.19
(1,7)	1:436:A:GLU:H	1:436:A:GLU:HG3	6	0.19
(1,1238)	1:420:A:VAL:HG12	1:421:A:LYS:HG2	32	0.18
(1,1227)	1:399:A:ASN:H	1:400:A:LEU:HD11	1	0.18
(1,1217)	1:417:A:LYS:H	1:417:A:LYS:HG2	14	0.18
(1,1140)	1:390:A:ALA:HB1	1:415:A:GLU:H	11	0.18
(1,1139)	1:433:A:GLY:HA2	1:435:A:ASP:H	11	0.18
(1,1137)	1:417:A:LYS:HB3	1:419:A:ASP:H	8	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1117)	1:374:A:LYS:HG2	1:374:A:LYS:H	34	0.18
(1,1110)	1:390:A:ALA:HB1	1:414:A:CYS:H	34	0.18
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	7	0.18
(1,1080)	1:417:A:LYS:HA	1:418:A:LYS:H	10	0.18
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	13	0.18
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	35	0.18
(1,1067)	1:402:A:GLU:HG3	1:403:A:LYS:HG3	20	0.18
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	29	0.18
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	1	0.18
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	7	0.18
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	15	0.18
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	24	0.18
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	27	0.18
(1,1030)	1:417:A:LYS:H	1:421:A:LYS:HE2	33	0.18
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE2	9	0.18
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG11	1	0.18
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG12	1	0.18
(1,983)	1:417:A:LYS:HB3	1:406:A:VAL:HG13	1	0.18
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD21	25	0.18
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD22	25	0.18
(1,982)	1:383:A:LYS:HB3	1:416:A:LEU:HD23	25	0.18
(1,858)	1:417:A:LYS:HA	1:417:A:LYS:HG3	22	0.18
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	6	0.18
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	7	0.18
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	32	0.18
(1,685)	1:397:A:CYS:HB2	1:407:A:PHE:HD1	5	0.18
(1,685)	1:397:A:CYS:HB2	1:407:A:PHE:HD2	5	0.18
(1,640)	1:428:A:SER:HB3	1:428:A:SER:H	23	0.18
(1,626)	1:432:A:GLU:HA	1:433:A:GLY:H	17	0.18
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	27	0.18
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	27	0.18
(1,282)	1:414:A:CYS:H	1:397:A:CYS:HB3	18	0.18
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB2	32	0.18
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB2	35	0.18
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	22	0.18
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	35	0.18
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	4	0.18
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	4	0.18
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	25	0.18
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	25	0.18
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	29	0.18
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	29	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	30	0.18
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	30	0.18
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	32	0.18
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	32	0.18
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD3	8	0.18
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD3	20	0.18
(1,1244)	1:403:A:LYS:HE2	1:386:A:ILE:HD11	10	0.17
(1,1189)	1:418:A:LYS:HD2	1:418:A:LYS:HA	23	0.17
(1,1166)	1:396:A:ALA:HA	1:395:A:LYS:HB3	27	0.17
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	5	0.17
(1,1141)	1:386:A:ILE:HD11	1:403:A:LYS:HE2	10	0.17
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	9	0.17
(1,1080)	1:417:A:LYS:HA	1:417:A:LYS:H	25	0.17
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	6	0.17
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	24	0.17
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	11	0.17
(1,1009)	1:403:A:LYS:H	1:386:A:ILE:HG23	19	0.17
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE2	31	0.17
(1,968)	1:400:A:LEU:HD11	1:403:A:LYS:HD2	29	0.17
(1,968)	1:400:A:LEU:HD12	1:403:A:LYS:HD2	29	0.17
(1,968)	1:400:A:LEU:HD13	1:403:A:LYS:HD2	29	0.17
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	7	0.17
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	7	0.17
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	7	0.17
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	35	0.17
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	35	0.17
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	35	0.17
(1,928)	1:423:A:LYS:HG3	1:423:A:LYS:HA	14	0.17
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	34	0.17
(1,806)	1:417:A:LYS:HG3	1:419:A:ASP:H	2	0.17
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	21	0.17
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	33	0.17
(1,741)	1:397:A:CYS:HB3	1:398:A:GLU:H	30	0.17
(1,640)	1:428:A:SER:HB2	1:428:A:SER:H	26	0.17
(1,421)	1:399:A:ASN:HD22	1:395:A:LYS:HD2	35	0.17
(1,399)	1:388:A:ASN:HD22	1:384:A:GLU:HB3	15	0.17
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	23	0.17
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	29	0.17
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	35	0.17
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	34	0.17
(1,229)	1:379:A:SER:H	1:382:A:ASN:HB3	1	0.17
(1,196)	1:385:A:LYS:H	1:385:A:LYS:HD2	21	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE2	24	0.17
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	9	0.17
(1,92)	1:403:A:LYS:H	1:400:A:LEU:HD11	30	0.17
(1,92)	1:403:A:LYS:H	1:400:A:LEU:HD12	30	0.17
(1,92)	1:403:A:LYS:H	1:400:A:LEU:HD13	30	0.17
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	2	0.17
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	2	0.17
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	21	0.17
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	21	0.17
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	27	0.17
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	27	0.17
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	14	0.17
(1,1228)	1:407:A:PHE:HZ	1:394:A:GLN:HB3	2	0.16
(1,1217)	1:417:A:LYS:H	1:417:A:LYS:HG2	24	0.16
(1,1210)	1:418:A:LYS:H	1:418:A:LYS:HG3	14	0.16
(1,1198)	1:407:A:PHE:HD2	1:409:A:THR:HG22	32	0.16
(1,1136)	1:414:A:CYS:HB3	1:408:A:ASN:H	4	0.16
(1,1129)	1:384:A:GLU:HB3	1:383:A:LYS:H	24	0.16
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	32	0.16
(1,1111)	1:418:A:LYS:HG3	1:418:A:LYS:H	14	0.16
(1,1103)	1:396:A:ALA:HB3	1:393:A:ASN:H	28	0.16
(1,1057)	1:425:A:GLU:H	1:421:A:LYS:HB2	32	0.16
(1,1042)	1:388:A:ASN:HD22	1:413:A:LYS:HB2	4	0.16
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	29	0.16
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	3	0.16
(1,1028)	1:418:A:LYS:H	1:418:A:LYS:HA	2	0.16
(1,1026)	1:412:A:ASN:H	1:409:A:THR:HG22	11	0.16
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	26	0.16
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE3	10	0.16
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD11	24	0.16
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD12	24	0.16
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD13	24	0.16
(1,921)	1:395:A:LYS:HD2	1:395:A:LYS:HA	31	0.16
(1,858)	1:417:A:LYS:HA	1:417:A:LYS:HG2	19	0.16
(1,839)	1:395:A:LYS:HB3	1:393:A:ASN:HD22	15	0.16
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	10	0.16
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	18	0.16
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	35	0.16
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	11	0.16
(1,705)	1:387:A:CYS:HB2	1:388:A:ASN:H	27	0.16
(1,700)	1:427:A:GLU:HG2	1:427:A:GLU:H	10	0.16
(1,700)	1:427:A:GLU:HG3	1:427:A:GLU:H	34	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,669)	1:414:A:CYS:HB3	1:414:A:CYS:H	18	0.16
(1,661)	1:376:A:GLN:HA	1:377:A:THR:H	2	0.16
(1,536)	1:427:A:GLU:H	1:428:A:SER:H	25	0.16
(1,516)	1:430:A:GLU:H	1:429:A:LYS:H	12	0.16
(1,468)	1:427:A:GLU:H	1:426:A:LYS:HB3	22	0.16
(1,417)	1:412:A:ASN:HD21	1:412:A:ASN:HA	32	0.16
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	18	0.16
(1,329)	1:423:A:LYS:H	1:423:A:LYS:HG2	23	0.16
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	13	0.16
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	2	0.16
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	6	0.16
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	9	0.16
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	30	0.16
(1,287)	1:416:A:LEU:H	1:415:A:GLU:HG2	6	0.16
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	10	0.16
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	13	0.16
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE2	16	0.16
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	7	0.16
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	7	0.16
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	33	0.16
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	33	0.16
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG2	28	0.16
(1,7)	1:436:A:GLU:H	1:436:A:GLU:HG3	15	0.16
(1,1237)	1:386:A:ILE:HD13	1:403:A:LYS:HB3	28	0.15
(1,1210)	1:418:A:LYS:H	1:418:A:LYS:HG2	18	0.15
(1,1203)	1:407:A:PHE:HE2	1:409:A:THR:HG23	28	0.15
(1,1192)	1:384:A:GLU:HG3	1:381:A:GLU:HA	14	0.15
(1,1175)	1:407:A:PHE:HA	1:394:A:GLN:HG3	34	0.15
(1,1159)	1:431:A:THR:HB	1:434:A:LYS:HG2	32	0.15
(1,1142)	1:386:A:ILE:HG22	1:403:A:LYS:HE3	5	0.15
(1,1137)	1:417:A:LYS:HB3	1:419:A:ASP:H	29	0.15
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	22	0.15
(1,1111)	1:418:A:LYS:HG2	1:418:A:LYS:H	18	0.15
(1,1103)	1:437:A:LYS:HG3	1:438:A:ALA:H	6	0.15
(1,1103)	1:390:A:ALA:HB2	1:393:A:ASN:H	31	0.15
(1,1082)	1:426:A:LYS:HA	1:426:A:LYS:H	33	0.15
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	2	0.15
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	22	0.15
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	30	0.15
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE3	8	0.15
(1,858)	1:417:A:LYS:HA	1:417:A:LYS:HG2	8	0.15
(1,831)	1:393:A:ASN:HA	1:393:A:ASN:HD21	20	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,806)	1:417:A:LYS:HG2	1:419:A:ASP:H	12	0.15
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	15	0.15
(1,661)	1:376:A:GLN:HA	1:377:A:THR:H	8	0.15
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	22	0.15
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	22	0.15
(1,498)	1:434:A:LYS:H	1:433:A:GLY:H	12	0.15
(1,498)	1:434:A:LYS:H	1:433:A:GLY:H	15	0.15
(1,406)	1:388:A:ASN:HD21	1:384:A:GLU:HB3	29	0.15
(1,365)	1:438:A:ALA:H	1:435:A:ASP:HB2	21	0.15
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	16	0.15
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	32	0.15
(1,267)	1:412:A:ASN:H	1:408:A:ASN:HD21	12	0.15
(1,267)	1:412:A:ASN:H	1:408:A:ASN:HD21	25	0.15
(1,227)	1:381:A:GLU:H	1:379:A:SER:HB3	2	0.15
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	28	0.15
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	7	0.15
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	30	0.15
(1,114)	1:398:A:GLU:H	1:395:A:LYS:HB3	34	0.15
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	3	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	1	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	1	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	5	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	5	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	6	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	6	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	15	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	15	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	18	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	18	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	22	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	22	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	28	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	28	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	35	0.15
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	35	0.15
(1,68)	1:389:A:ALA:H	1:385:A:LYS:HB3	33	0.15
(1,31)	1:390:A:ALA:H	1:414:A:CYS:HB3	27	0.15
(1,23)	1:405:A:CYS:H	1:401:A:LYS:HD2	35	0.15
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	27	0.15
(1,1238)	1:420:A:VAL:HG12	1:421:A:LYS:HG3	7	0.14
(1,1234)	1:400:A:LEU:HD21	1:390:A:ALA:HB3	17	0.14
(1,1192)	1:384:A:GLU:HG2	1:381:A:GLU:HA	20	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	9	0.14
(1,1159)	1:436:A:GLU:HA	1:434:A:LYS:HG3	30	0.14
(1,1129)	1:384:A:GLU:HB3	1:383:A:LYS:H	3	0.14
(1,1082)	1:426:A:LYS:HA	1:426:A:LYS:H	4	0.14
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	16	0.14
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	29	0.14
(1,1079)	1:386:A:ILE:HG12	1:383:A:LYS:HG3	15	0.14
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	35	0.14
(1,1045)	1:388:A:ASN:HD21	1:413:A:LYS:HB2	2	0.14
(1,1042)	1:388:A:ASN:HD22	1:413:A:LYS:HB2	19	0.14
(1,1042)	1:388:A:ASN:HD22	1:413:A:LYS:HB2	29	0.14
(1,1040)	1:429:A:LYS:H	1:426:A:LYS:HA	9	0.14
(1,1040)	1:429:A:LYS:H	1:426:A:LYS:HA	28	0.14
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	4	0.14
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	6	0.14
(1,1028)	1:418:A:LYS:H	1:418:A:LYS:HA	6	0.14
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	5	0.14
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	17	0.14
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	35	0.14
(1,814)	1:417:A:LYS:HD3	1:419:A:ASP:H	1	0.14
(1,808)	1:426:A:LYS:HG2	1:426:A:LYS:H	33	0.14
(1,803)	1:379:A:SER:HA	1:381:A:GLU:H	27	0.14
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	9	0.14
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	21	0.14
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	34	0.14
(1,723)	1:429:A:LYS:HG2	1:429:A:LYS:H	3	0.14
(1,700)	1:427:A:GLU:HG2	1:427:A:GLU:H	14	0.14
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	7	0.14
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	7	0.14
(1,549)	1:416:A:LEU:HA	1:416:A:LEU:HD21	34	0.14
(1,549)	1:416:A:LEU:HA	1:416:A:LEU:HD22	34	0.14
(1,549)	1:416:A:LEU:HA	1:416:A:LEU:HD23	34	0.14
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD21	11	0.14
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD22	11	0.14
(1,533)	1:384:A:GLU:HG3	1:416:A:LEU:HD23	11	0.14
(1,468)	1:427:A:GLU:H	1:426:A:LYS:HB3	15	0.14
(1,417)	1:412:A:ASN:HD21	1:412:A:ASN:HA	10	0.14
(1,339)	1:422:A:GLU:H	1:419:A:ASP:HB2	9	0.14
(1,327)	1:421:A:LYS:H	1:419:A:ASP:HB2	32	0.14
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	9	0.14
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	17	0.14
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	12	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	14	0.14
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	19	0.14
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	22	0.14
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	24	0.14
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	31	0.14
(1,284)	1:414:A:CYS:H	1:397:A:CYS:HB2	23	0.14
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	31	0.14
(1,267)	1:412:A:ASN:H	1:408:A:ASN:HD21	20	0.14
(1,267)	1:412:A:ASN:H	1:408:A:ASN:HD21	28	0.14
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	4	0.14
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD2	28	0.14
(1,234)	1:381:A:GLU:H	1:383:A:LYS:HD3	29	0.14
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	15	0.14
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE2	13	0.14
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE3	30	0.14
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	17	0.14
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	9	0.14
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	9	0.14
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	7	0.14
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	35	0.14
(1,1244)	1:383:A:LYS:HE3	1:386:A:ILE:HD12	8	0.13
(1,1210)	1:418:A:LYS:H	1:418:A:LYS:HG3	23	0.13
(1,1209)	1:414:A:CYS:H	1:390:A:ALA:HB1	23	0.13
(1,1159)	1:431:A:THR:HB	1:434:A:LYS:HG2	21	0.13
(1,1150)	1:423:A:LYS:HA	1:422:A:GLU:HG2	24	0.13
(1,1129)	1:384:A:GLU:HB3	1:383:A:LYS:H	23	0.13
(1,1117)	1:373:A:LYS:HG2	1:374:A:LYS:H	35	0.13
(1,1111)	1:418:A:LYS:HG3	1:418:A:LYS:H	23	0.13
(1,1110)	1:390:A:ALA:HB2	1:414:A:CYS:H	33	0.13
(1,1081)	1:425:A:GLU:HA	1:425:A:GLU:H	3	0.13
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	21	0.13
(1,1079)	1:386:A:ILE:HG12	1:383:A:LYS:HG3	20	0.13
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	26	0.13
(1,1078)	1:393:A:ASN:HB3	1:397:A:CYS:HB2	31	0.13
(1,1078)	1:407:A:PHE:HB3	1:397:A:CYS:HB2	33	0.13
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	18	0.13
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	5	0.13
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	13	0.13
(1,986)	1:401:A:LYS:HE2	1:406:A:VAL:HG21	12	0.13
(1,986)	1:401:A:LYS:HE2	1:406:A:VAL:HG22	12	0.13
(1,986)	1:401:A:LYS:HE2	1:406:A:VAL:HG23	12	0.13
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	2	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	15	0.13
(1,874)	1:395:A:LYS:HA	1:398:A:GLU:HG3	16	0.13
(1,858)	1:417:A:LYS:HA	1:417:A:LYS:HG2	11	0.13
(1,858)	1:417:A:LYS:HA	1:417:A:LYS:HG3	26	0.13
(1,815)	1:400:A:LEU:HD11	1:401:A:LYS:H	19	0.13
(1,815)	1:400:A:LEU:HD12	1:401:A:LYS:H	19	0.13
(1,815)	1:400:A:LEU:HD13	1:401:A:LYS:H	19	0.13
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	2	0.13
(1,711)	1:417:A:LYS:HD3	1:417:A:LYS:H	9	0.13
(1,693)	1:420:A:VAL:HB	1:421:A:LYS:H	22	0.13
(1,674)	1:418:A:LYS:HB2	1:419:A:ASP:H	10	0.13
(1,663)	1:414:A:CYS:HA	1:407:A:PHE:HD1	7	0.13
(1,663)	1:414:A:CYS:HA	1:407:A:PHE:HD2	7	0.13
(1,626)	1:432:A:GLU:HA	1:433:A:GLY:H	5	0.13
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	15	0.13
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	15	0.13
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	16	0.13
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	16	0.13
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	19	0.13
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	19	0.13
(1,516)	1:430:A:GLU:H	1:429:A:LYS:H	24	0.13
(1,475)	1:425:A:GLU:H	1:424:A:LEU:HG	4	0.13
(1,462)	1:432:A:GLU:H	1:432:A:GLU:HB2	1	0.13
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD3	15	0.13
(1,367)	1:431:A:THR:H	1:430:A:GLU:H	5	0.13
(1,351)	1:377:A:THR:H	1:376:A:GLN:HB2	2	0.13
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	1	0.13
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB3	30	0.13
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	16	0.13
(1,227)	1:381:A:GLU:H	1:379:A:SER:HB3	7	0.13
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	22	0.13
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	5	0.13
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	13	0.13
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	13	0.13
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	14	0.13
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	14	0.13
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	17	0.13
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	17	0.13
(1,83)	1:403:A:LYS:H	1:403:A:LYS:HG3	19	0.13
(1,46)	1:387:A:CYS:H	1:383:A:LYS:HG3	26	0.13
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	22	0.13
(1,31)	1:390:A:ALA:H	1:414:A:CYS:HB3	30	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,21)	1:406:A:VAL:H	1:417:A:LYS:HG3	6	0.13
(1,7)	1:436:A:GLU:H	1:436:A:GLU:HG3	34	0.13
(1,1243)	1:403:A:LYS:HE2	1:400:A:LEU:HD23	30	0.12
(1,1228)	1:407:A:PHE:HZ	1:409:A:THR:HG22	1	0.12
(1,1228)	1:407:A:PHE:HZ	1:409:A:THR:HG23	35	0.12
(1,1210)	1:418:A:LYS:H	1:418:A:LYS:HG2	28	0.12
(1,1210)	1:418:A:LYS:H	1:418:A:LYS:HG2	35	0.12
(1,1209)	1:430:A:GLU:H	1:429:A:LYS:HG2	12	0.12
(1,1205)	1:422:A:GLU:H	1:422:A:GLU:HG3	5	0.12
(1,1129)	1:384:A:GLU:HB2	1:383:A:LYS:H	33	0.12
(1,1111)	1:418:A:LYS:HG2	1:418:A:LYS:H	28	0.12
(1,1111)	1:418:A:LYS:HG2	1:418:A:LYS:H	35	0.12
(1,1099)	1:422:A:GLU:HG3	1:422:A:GLU:H	5	0.12
(1,1082)	1:426:A:LYS:HA	1:426:A:LYS:H	26	0.12
(1,1082)	1:426:A:LYS:HA	1:426:A:LYS:H	28	0.12
(1,1079)	1:386:A:ILE:HG12	1:385:A:LYS:HG2	13	0.12
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	23	0.12
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	28	0.12
(1,1040)	1:429:A:LYS:H	1:426:A:LYS:HA	13	0.12
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	2	0.12
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	8	0.12
(1,1028)	1:418:A:LYS:H	1:418:A:LYS:HA	17	0.12
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	33	0.12
(1,993)	1:413:A:LYS:HB3	1:413:A:LYS:HE3	16	0.12
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	9	0.12
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	9	0.12
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	9	0.12
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	32	0.12
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	32	0.12
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	32	0.12
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	1	0.12
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	19	0.12
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	21	0.12
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	27	0.12
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	31	0.12
(1,940)	1:431:A:THR:H	1:431:A:THR:HB	6	0.12
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	26	0.12
(1,741)	1:397:A:CYS:HB3	1:398:A:GLU:H	20	0.12
(1,725)	1:408:A:ASN:HB3	1:408:A:ASN:HD21	8	0.12
(1,723)	1:429:A:LYS:HG3	1:429:A:LYS:H	17	0.12
(1,700)	1:427:A:GLU:HG3	1:427:A:GLU:H	4	0.12
(1,661)	1:376:A:GLN:HA	1:377:A:THR:H	16	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,641)	1:401:A:LYS:HB3	1:401:A:LYS:H	30	0.12
(1,626)	1:432:A:GLU:HA	1:433:A:GLY:H	2	0.12
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	3	0.12
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	3	0.12
(1,474)	1:426:A:LYS:H	1:425:A:GLU:HB2	19	0.12
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD11	5	0.12
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD12	5	0.12
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD13	5	0.12
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD11	17	0.12
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD12	17	0.12
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD13	17	0.12
(1,367)	1:431:A:THR:H	1:430:A:GLU:H	2	0.12
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	14	0.12
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	16	0.12
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	33	0.12
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	17	0.12
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	20	0.12
(1,284)	1:414:A:CYS:H	1:397:A:CYS:HB2	4	0.12
(1,279)	1:413:A:LYS:H	1:415:A:GLU:HB2	6	0.12
(1,239)	1:379:A:SER:H	1:383:A:LYS:HD3	6	0.12
(1,229)	1:379:A:SER:H	1:382:A:ASN:HB3	20	0.12
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	17	0.12
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	27	0.12
(1,196)	1:385:A:LYS:H	1:385:A:LYS:HD2	28	0.12
(1,182)	1:392:A:ASP:H	1:391:A:LYS:HE2	25	0.12
(1,164)	1:382:A:ASN:H	1:382:A:ASN:HD21	7	0.12
(1,111)	1:399:A:ASN:H	1:397:A:CYS:HB2	21	0.12
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE1	24	0.12
(1,89)	1:407:A:PHE:H	1:407:A:PHE:HE2	24	0.12
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	1	0.12
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	2	0.12
(1,1236)	1:386:A:ILE:HG21	1:403:A:LYS:HD2	15	0.11
(1,1227)	1:399:A:ASN:H	1:400:A:LEU:HD11	19	0.11
(1,1210)	1:418:A:LYS:H	1:418:A:LYS:HG3	16	0.11
(1,1205)	1:430:A:GLU:H	1:430:A:GLU:HG3	14	0.11
(1,1166)	1:396:A:ALA:HA	1:395:A:LYS:HB3	2	0.11
(1,1164)	1:411:A:SER:HA	1:410:A:GLU:HB3	6	0.11
(1,1129)	1:384:A:GLU:HB3	1:383:A:LYS:H	1	0.11
(1,1111)	1:418:A:LYS:HG3	1:418:A:LYS:H	7	0.11
(1,1111)	1:418:A:LYS:HG3	1:418:A:LYS:H	16	0.11
(1,1099)	1:384:A:GLU:HG2	1:384:A:GLU:H	6	0.11
(1,1099)	1:430:A:GLU:HG3	1:430:A:GLU:H	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1082)	1:426:A:LYS:HA	1:426:A:LYS:H	23	0.11
(1,1082)	1:426:A:LYS:HA	1:426:A:LYS:H	32	0.11
(1,1080)	1:418:A:LYS:HA	1:418:A:LYS:H	34	0.11
(1,1049)	1:382:A:ASN:HD21	1:386:A:ILE:HD13	31	0.11
(1,1048)	1:382:A:ASN:HD21	1:383:A:LYS:HB3	31	0.11
(1,1040)	1:429:A:LYS:H	1:425:A:GLU:HA	24	0.11
(1,1035)	1:424:A:LEU:H	1:423:A:LYS:HA	3	0.11
(1,1031)	1:417:A:LYS:H	1:405:A:CYS:HB2	1	0.11
(1,1017)	1:382:A:ASN:H	1:416:A:LEU:HD23	2	0.11
(1,965)	1:416:A:LEU:HD21	1:383:A:LYS:HB2	26	0.11
(1,965)	1:416:A:LEU:HD22	1:383:A:LYS:HB2	26	0.11
(1,965)	1:416:A:LEU:HD23	1:383:A:LYS:HB2	26	0.11
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD21	27	0.11
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD22	27	0.11
(1,956)	1:425:A:GLU:H	1:424:A:LEU:HD23	27	0.11
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	7	0.11
(1,945)	1:394:A:GLN:H	1:394:A:GLN:HG3	11	0.11
(1,940)	1:431:A:THR:H	1:431:A:THR:HB	29	0.11
(1,858)	1:417:A:LYS:HA	1:417:A:LYS:HG3	9	0.11
(1,803)	1:379:A:SER:HA	1:381:A:GLU:H	28	0.11
(1,803)	1:379:A:SER:HA	1:381:A:GLU:H	33	0.11
(1,779)	1:391:A:LYS:HA	1:414:A:CYS:H	15	0.11
(1,758)	1:391:A:LYS:HG3	1:391:A:LYS:H	9	0.11
(1,755)	1:384:A:GLU:HG2	1:388:A:ASN:HD22	17	0.11
(1,741)	1:397:A:CYS:HB3	1:398:A:GLU:H	27	0.11
(1,706)	1:423:A:LYS:HB2	1:423:A:LYS:H	23	0.11
(1,700)	1:427:A:GLU:HG3	1:427:A:GLU:H	26	0.11
(1,626)	1:432:A:GLU:HA	1:433:A:GLY:H	26	0.11
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	2	0.11
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	2	0.11
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	13	0.11
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	13	0.11
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	30	0.11
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	30	0.11
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	35	0.11
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	35	0.11
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD21	4	0.11
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD22	4	0.11
(1,557)	1:421:A:LYS:HA	1:424:A:LEU:HD23	4	0.11
(1,474)	1:426:A:LYS:H	1:425:A:GLU:HB2	27	0.11
(1,468)	1:427:A:GLU:H	1:426:A:LYS:HB3	11	0.11
(1,451)	1:408:A:ASN:HD21	1:408:A:ASN:HA	12	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,412)	1:399:A:ASN:HD21	1:395:A:LYS:HD3	11	0.11
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD11	31	0.11
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD12	31	0.11
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD13	31	0.11
(1,359)	1:439:A:ASN:H	1:438:A:ALA:HB1	22	0.11
(1,359)	1:439:A:ASN:H	1:438:A:ALA:HB2	22	0.11
(1,359)	1:439:A:ASN:H	1:438:A:ALA:HB3	22	0.11
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	3	0.11
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	5	0.11
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	8	0.11
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	22	0.11
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	25	0.11
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	30	0.11
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	32	0.11
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	34	0.11
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	8	0.11
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	27	0.11
(1,264)	1:414:A:CYS:H	1:390:A:ALA:HB1	16	0.11
(1,264)	1:414:A:CYS:H	1:390:A:ALA:HB2	16	0.11
(1,264)	1:414:A:CYS:H	1:390:A:ALA:HB3	16	0.11
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB2	14	0.11
(1,262)	1:412:A:ASN:H	1:410:A:GLU:HB2	28	0.11
(1,252)	1:409:A:THR:H	1:406:A:VAL:HG21	24	0.11
(1,252)	1:409:A:THR:H	1:406:A:VAL:HG22	24	0.11
(1,252)	1:409:A:THR:H	1:406:A:VAL:HG23	24	0.11
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	1	0.11
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	25	0.11
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	26	0.11
(1,151)	1:392:A:ASP:H	1:391:A:LYS:HB2	11	0.11
(1,150)	1:396:A:ALA:H	1:394:A:GLN:HB2	35	0.11
(1,92)	1:403:A:LYS:H	1:400:A:LEU:HD11	14	0.11
(1,92)	1:403:A:LYS:H	1:400:A:LEU:HD12	14	0.11
(1,92)	1:403:A:LYS:H	1:400:A:LEU:HD13	14	0.11
(1,57)	1:386:A:ILE:H	1:387:A:CYS:HB3	6	0.11
(1,57)	1:386:A:ILE:H	1:387:A:CYS:HB3	11	0.11
(1,57)	1:386:A:ILE:H	1:387:A:CYS:HB3	19	0.11
(1,42)	1:390:A:ALA:H	1:391:A:LYS:HB2	11	0.11
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	25	0.11
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	31	0.11
(1,1241)	1:403:A:LYS:HD2	1:386:A:ILE:HG22	13	0.1
(1,1194)	1:434:A:LYS:HG3	1:436:A:GLU:HA	12	0.1
(1,1166)	1:396:A:ALA:HA	1:395:A:LYS:HB3	8	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1129)	1:384:A:GLU:HB3	1:383:A:LYS:H	20	0.1
(1,1129)	1:384:A:GLU:HB3	1:383:A:LYS:H	29	0.1
(1,1111)	1:418:A:LYS:HG3	1:418:A:LYS:H	34	0.1
(1,1082)	1:426:A:LYS:HA	1:426:A:LYS:H	27	0.1
(1,1028)	1:418:A:LYS:H	1:418:A:LYS:HA	14	0.1
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	34	0.1
(1,1017)	1:393:A:ASN:H	1:394:A:GLN:HB2	35	0.1
(1,858)	1:417:A:LYS:HA	1:417:A:LYS:HG2	10	0.1
(1,817)	1:377:A:THR:HG21	1:378:A:GLU:H	1	0.1
(1,817)	1:377:A:THR:HG22	1:378:A:GLU:H	1	0.1
(1,817)	1:377:A:THR:HG23	1:378:A:GLU:H	1	0.1
(1,817)	1:377:A:THR:HG21	1:378:A:GLU:H	10	0.1
(1,817)	1:377:A:THR:HG22	1:378:A:GLU:H	10	0.1
(1,817)	1:377:A:THR:HG23	1:378:A:GLU:H	10	0.1
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	21	0.1
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	21	0.1
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD1	32	0.1
(1,558)	1:408:A:ASN:H	1:407:A:PHE:HD2	32	0.1
(1,451)	1:408:A:ASN:HD21	1:408:A:ASN:HA	32	0.1
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD11	4	0.1
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD12	4	0.1
(1,408)	1:399:A:ASN:HD21	1:400:A:LEU:HD13	4	0.1
(1,402)	1:394:A:GLN:HE22	1:407:A:PHE:HB2	10	0.1
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	11	0.1
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	12	0.1
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	15	0.1
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	18	0.1
(1,317)	1:422:A:GLU:H	1:421:A:LYS:HA	19	0.1
(1,303)	1:417:A:LYS:H	1:404:A:GLY:HA3	10	0.1
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	3	0.1
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	13	0.1
(1,296)	1:419:A:ASP:H	1:418:A:LYS:HA	15	0.1
(1,259)	1:413:A:LYS:H	1:413:A:LYS:HD2	28	0.1
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	14	0.1
(1,214)	1:384:A:GLU:H	1:382:A:ASN:HB2	35	0.1
(1,119)	1:398:A:GLU:H	1:407:A:PHE:HB3	1	0.1
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	9	0.1
(1,40)	1:390:A:ALA:H	1:391:A:LYS:HB3	26	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found