



Full wwPDB NMR Structure Validation Report ⓘ

Dec 25, 2024 – 03:02 PM EST

PDB ID : 6SOE
BMRB ID : 34429
Title : Mouse RBM20 RRM domain
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Deposited on : 2019-08-29

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 : 4.02b-467
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
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) : 2.40

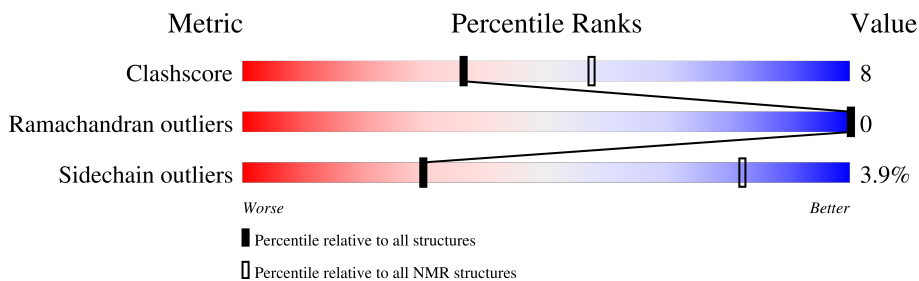
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 96%.

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	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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	112	

2 Ensemble composition and analysis i

This entry contains 25 models. Model 25 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *closest to the average*.

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:521-A:599 (79)	0.43	25

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 6 clusters and 3 single-model clusters were found.

Cluster number	Models
1	1, 3, 7, 13, 15, 17, 19, 21
2	5, 6, 20, 22, 25
3	12, 14, 23
4	4, 18
5	9, 24
6	8, 11
Single-model clusters	2; 10; 16

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1785 atoms, of which 907 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called RNA-binding protein 20.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	112	1785	551	907	158	162	7	0

There are 3 discrepancies between the modelled and reference sequences:

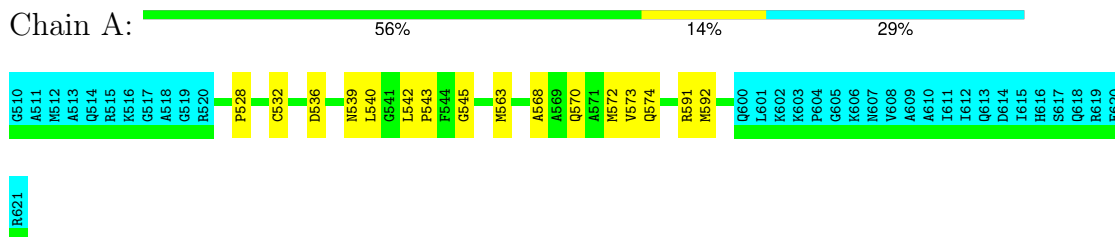
Chain	Residue	Modelled	Actual	Comment	Reference
A	510	GLY	-	expression tag	UNP Q3UQS8
A	511	ALA	-	expression tag	UNP Q3UQS8
A	512	MET	-	expression tag	UNP Q3UQS8

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: RNA-binding protein 20

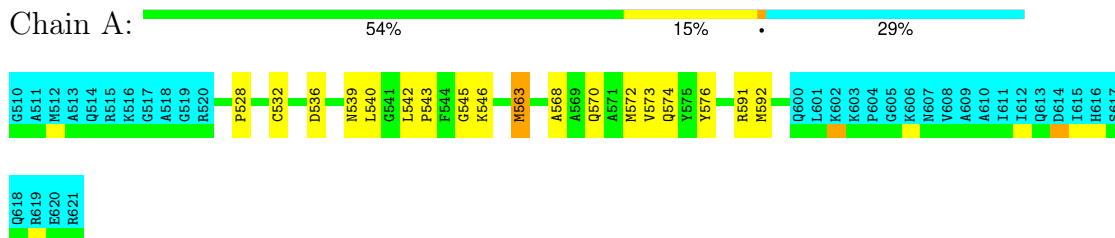


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: RNA-binding protein 20



4.2.2 Score per residue for model 2

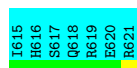
- Molecule 1: RNA-binding protein 20





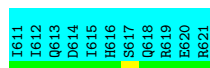
4.2.3 Score per residue for model 3

- Molecule 1: RNA-binding protein 20



4.2.4 Score per residue for model 4

- Molecule 1: RNA-binding protein 20



4.2.5 Score per residue for model 5

- Molecule 1: RNA-binding protein 20



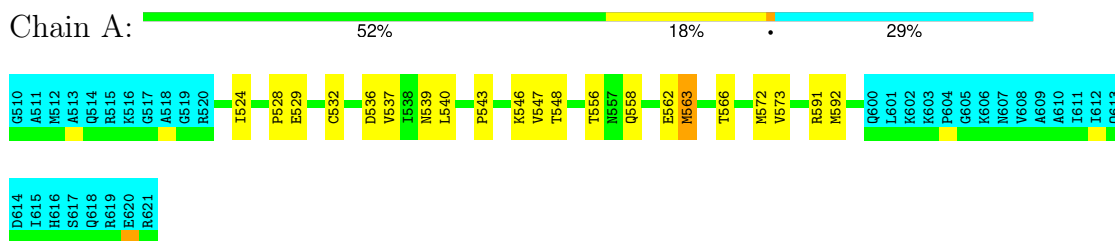
4.2.6 Score per residue for model 6

- Molecule 1: RNA-binding protein 20



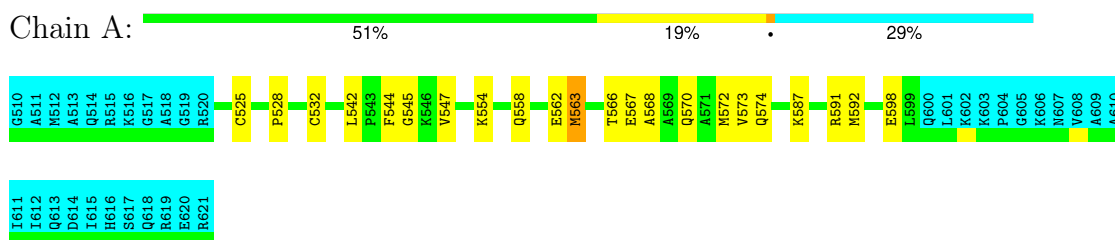
4.2.7 Score per residue for model 7

- Molecule 1: RNA-binding protein 20



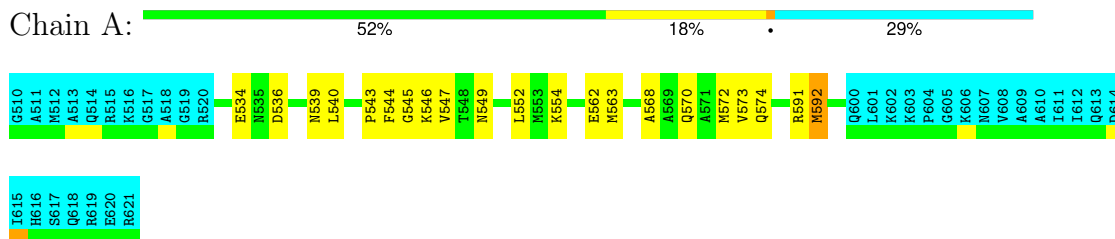
4.2.8 Score per residue for model 8

- Molecule 1: RNA-binding protein 20



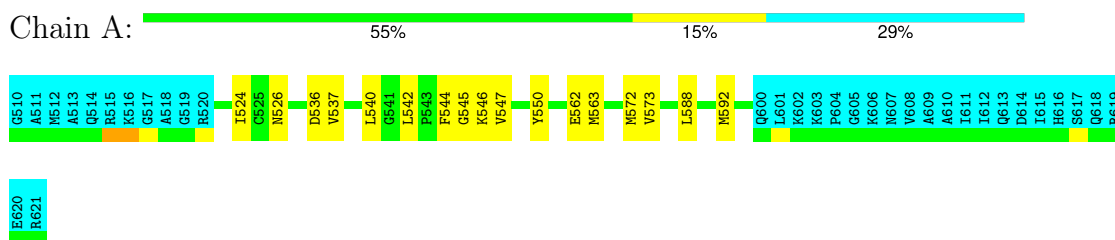
4.2.9 Score per residue for model 9

- Molecule 1: RNA-binding protein 20



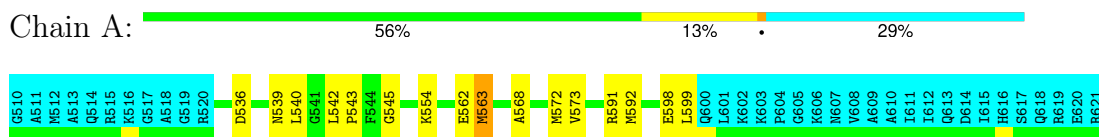
4.2.10 Score per residue for model 10

- Molecule 1: RNA-binding protein 20



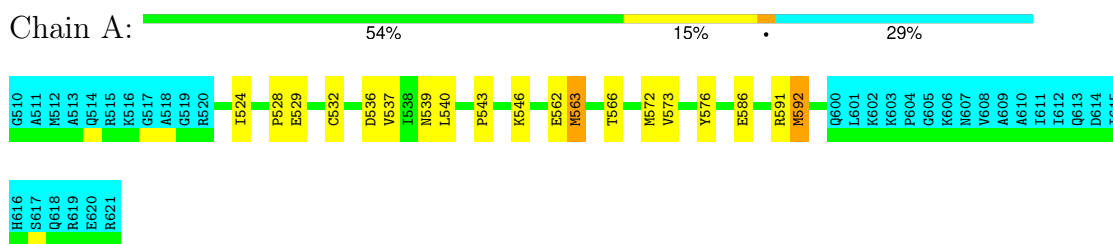
4.2.11 Score per residue for model 11

- Molecule 1: RNA-binding protein 20



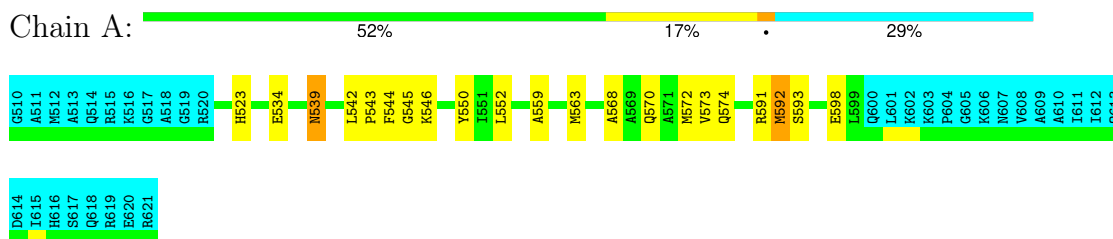
4.2.12 Score per residue for model 12

- Molecule 1: RNA-binding protein 20



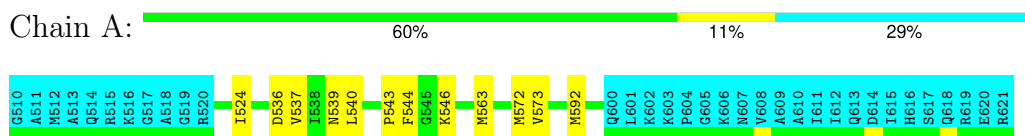
4.2.13 Score per residue for model 13

- Molecule 1: RNA-binding protein 20



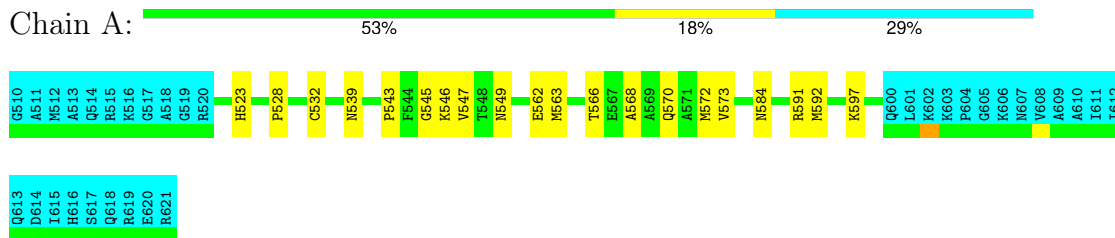
4.2.14 Score per residue for model 14

- Molecule 1: RNA-binding protein 20



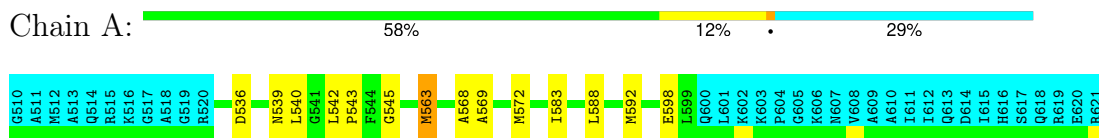
4.2.15 Score per residue for model 15

- Molecule 1: RNA-binding protein 20



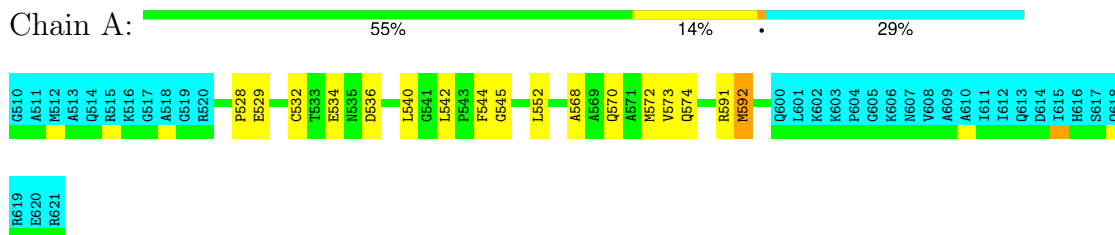
4.2.16 Score per residue for model 16

- Molecule 1: RNA-binding protein 20



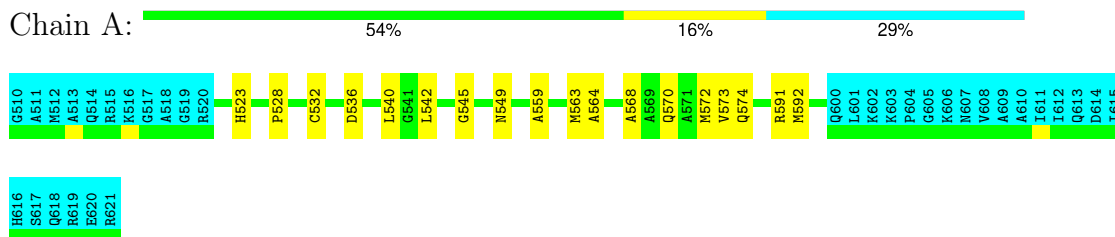
4.2.17 Score per residue for model 17

- Molecule 1: RNA-binding protein 20



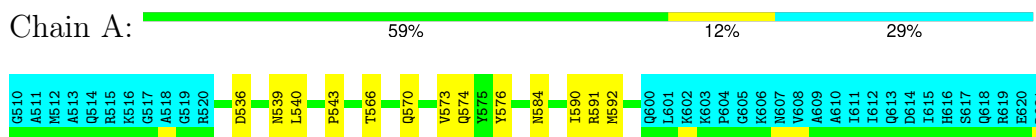
4.2.18 Score per residue for model 18

- Molecule 1: RNA-binding protein 20



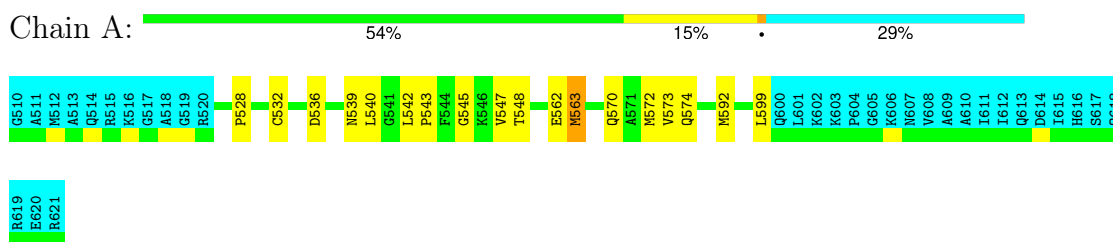
4.2.19 Score per residue for model 19

- Molecule 1: RNA-binding protein 20



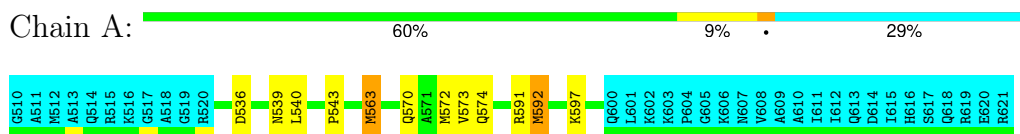
4.2.20 Score per residue for model 20

- Molecule 1: RNA-binding protein 20



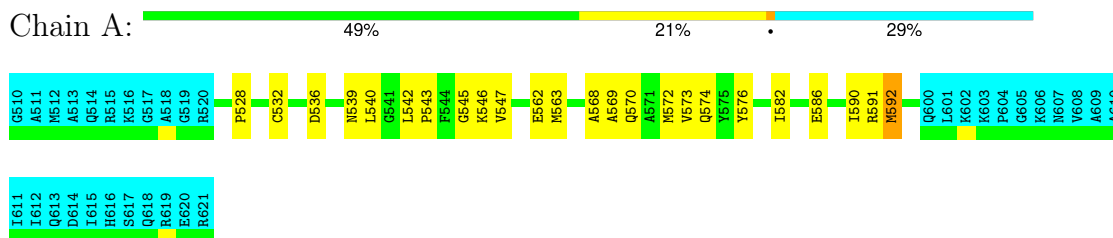
4.2.21 Score per residue for model 21

- Molecule 1: RNA-binding protein 20



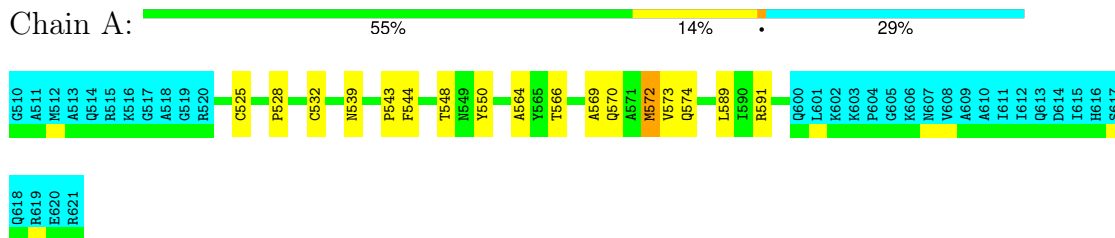
4.2.22 Score per residue for model 22

- Molecule 1: RNA-binding protein 20



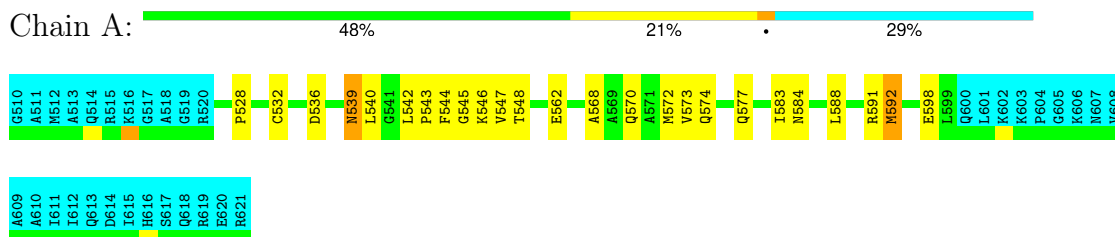
4.2.23 Score per residue for model 23

- Molecule 1: RNA-binding protein 20



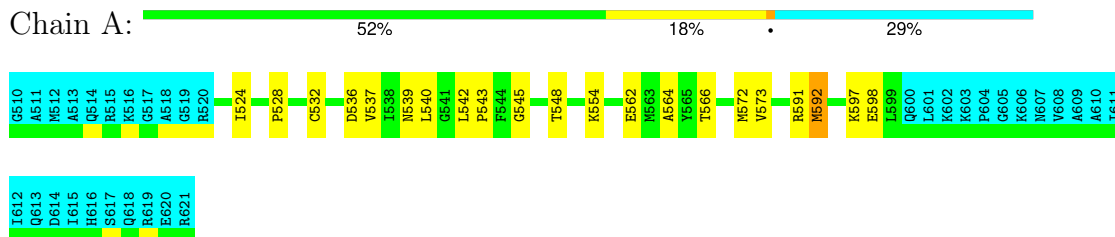
4.2.24 Score per residue for model 24

- Molecule 1: RNA-binding protein 20



4.2.25 Score per residue for model 25 (medoid)

- Molecule 1: RNA-binding protein 20



5 Refinement protocol and experimental data overview

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

Of the 100 calculated structures, 25 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
ARIA	structure calculation	
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	1458
Number of shifts mapped to atoms	1458
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	96%

6 Model quality i

6.1 Standard geometry i

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

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

There are no planarity outliers.

6.2 Too-close contacts 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	625	634	633	9±2
All	All	15625	15850	15825	236

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 8.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:569:ALA:HA	1:A:572:MET:SD	0.76	2.21	22	4
1:A:528:PRO:HD2	1:A:532:CYS:SG	0.71	2.26	12	16
1:A:563:MET:HG2	1:A:572:MET:SD	0.66	2.31	16	2
1:A:573:VAL:HG13	1:A:591:ARG:HA	0.61	1.72	9	19
1:A:536:ASP:O	1:A:540:LEU:HG	0.61	1.96	21	19
1:A:546:LYS:O	1:A:563:MET:HA	0.59	1.97	7	10
1:A:539:ASN:O	1:A:543:PRO:HD3	0.59	1.98	9	20
1:A:563:MET:HE2	1:A:572:MET:SD	0.54	2.42	20	8
1:A:542:LEU:HA	1:A:545:GLY:O	0.54	2.03	24	12
1:A:570:GLN:O	1:A:574:GLN:HG2	0.52	2.05	1	10
1:A:547:VAL:HA	1:A:562:GLU:O	0.51	2.05	22	8
1:A:545:GLY:CA	1:A:568:ALA:HB1	0.51	2.35	9	13
1:A:572:MET:HG2	1:A:573:VAL:N	0.51	2.21	22	2
1:A:548:THR:OG1	1:A:562:GLU:HG3	0.50	2.07	25	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:524:ILE:HD12	1:A:537:VAL:HG13	0.50	1.84	2	8
1:A:566:THR:O	1:A:570:GLN:HG2	0.49	2.07	23	1
1:A:525:CYS:HA	1:A:558:GLN:OE1	0.49	2.07	8	1
1:A:525:CYS:SG	1:A:589:LEU:HB3	0.48	2.48	23	1
1:A:573:VAL:HG11	1:A:592:MET:HG2	0.48	1.86	9	9
1:A:545:GLY:HA2	1:A:568:ALA:HB1	0.47	1.86	16	3
1:A:573:VAL:CG1	1:A:591:ARG:HA	0.47	2.40	25	6
1:A:577:GLN:NE2	1:A:591:ARG:HB3	0.46	2.25	24	1
1:A:544:PHE:HB2	1:A:572:MET:CB	0.46	2.40	9	9
1:A:523:HIS:HB3	1:A:593:SER:OG	0.46	2.11	13	1
1:A:572:MET:HG3	1:A:573:VAL:N	0.46	2.26	2	12
1:A:527:LEU:O	1:A:557:ASN:HB3	0.46	2.10	3	1
1:A:566:THR:O	1:A:570:GLN:HG3	0.45	2.11	19	4
1:A:562:GLU:HB2	1:A:599:LEU:HD12	0.45	1.89	20	3
1:A:570:GLN:O	1:A:574:GLN:HG3	0.45	2.12	20	3
1:A:574:GLN:HA	1:A:574:GLN:OE1	0.45	2.12	23	1
1:A:561:LEU:HB3	1:A:563:MET:HE1	0.43	1.88	5	1
1:A:539:ASN:HA	1:A:542:LEU:HD12	0.43	1.90	13	1
1:A:583:ILE:CG1	1:A:588:LEU:HD11	0.43	2.44	16	1
1:A:556:THR:O	1:A:558:GLN:HG2	0.42	2.14	7	1
1:A:523:HIS:HA	1:A:559:ALA:O	0.42	2.13	18	2
1:A:567:GLU:H	1:A:567:GLU:CD	0.42	2.18	3	1
1:A:576:TYR:CB	1:A:590:ILE:HB	0.42	2.44	19	2
1:A:534:GLU:HG3	1:A:552:LEU:CD1	0.42	2.45	13	1
1:A:582:ILE:HA	1:A:586:GLU:O	0.42	2.14	22	1
1:A:574:GLN:OE1	1:A:574:GLN:HA	0.41	2.16	8	1
1:A:572:MET:HB2	1:A:576:TYR:CE1	0.41	2.49	4	3
1:A:540:LEU:CD1	1:A:588:LEU:HD12	0.41	2.46	10	2
1:A:597:LYS:C	1:A:597:LYS:HD3	0.41	2.36	3	1
1:A:567:GLU:CD	1:A:567:GLU:H	0.41	2.19	8	1
1:A:534:GLU:HG2	1:A:552:LEU:CD1	0.41	2.46	17	2
1:A:545:GLY:HA3	1:A:572:MET:CE	0.41	2.46	3	2
1:A:536:ASP:HB3	1:A:583:ILE:HD13	0.41	1.91	6	1
1:A:548:THR:CG2	1:A:564:ALA:HA	0.40	2.46	23	1
1:A:544:PHE:HB2	1:A:572:MET:CA	0.40	2.46	23	1
1:A:563:MET:SD	1:A:563:MET:N	0.40	2.95	2	1
1:A:583:ILE:HD12	1:A:588:LEU:HD11	0.40	1.92	24	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	79/112 (71%)	78±1 (99±1%)	1±1 (1±1%)	0±0 (0±0%)	100	100
All	All	1975/2800 (71%)	1960 (99%)	15 (1%)	0 (0%)	100	100

There are no Ramachandran outliers.

6.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	69/93 (74%)	66±1 (96±2%)	3±1 (4±2%)	30	82
All	All	1725/2325 (74%)	1657 (96%)	68 (4%)	30	82

All 16 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	592	MET	24
1	A	563	MET	10
1	A	598	GLU	8
1	A	529	GLU	5
1	A	554	LYS	5
1	A	539	ASN	3
1	A	584	ASN	3
1	A	597	LYS	2
1	A	558	GLN	1
1	A	535	ASN	1
1	A	587	LYS	1
1	A	526	ASN	1
1	A	586	GLU	1

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Mol	Chain	Res	Type	Models (Total)
1	A	523	HIS	1
1	A	549	ASN	1
1	A	572	MET	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

6.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation (i)

The completeness of assignment taking into account all chemical shift lists is 96% for the well-defined parts and 94% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: starch_output

7.1.1 Bookkeeping (i)

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

Total number of shifts	1458
Number of shifts mapped to atoms	1458
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

7.1.2 Chemical shift referencing (i)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	111	-0.33 ± 0.15	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	104	0.15 ± 0.12	None needed (< 0.5 ppm)
$^{13}\text{C}'$	110	0.09 ± 0.09	None needed (< 0.5 ppm)
^{15}N	104	0.17 ± 0.44	None needed (< 0.5 ppm)

7.1.3 Completeness of resonance assignments (i)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 96%, i.e. 1049 atoms were assigned a chemical shift out of a possible 1094. 0 out of 13 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	388/393 (99%)	157/159 (99%)	157/158 (99%)	74/76 (97%)
Sidechain	597/628 (95%)	401/411 (98%)	186/196 (95%)	10/21 (48%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	64/73 (88%)	32/34 (94%)	32/37 (86%)	0/2 (0%)
Overall	1049/1094 (96%)	590/604 (98%)	375/391 (96%)	84/99 (85%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 94%, i.e. 1458 atoms were assigned a chemical shift out of a possible 1558. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	546/560 (98%)	221/228 (97%)	221/224 (99%)	104/108 (96%)
Sidechain	844/917 (92%)	566/596 (95%)	263/279 (94%)	15/42 (36%)
Aromatic	68/81 (84%)	34/38 (89%)	34/39 (87%)	0/4 (0%)
Overall	1458/1558 (94%)	821/862 (95%)	518/542 (96%)	119/154 (77%)

7.1.4 Statistically unusual chemical shifts [i](#)

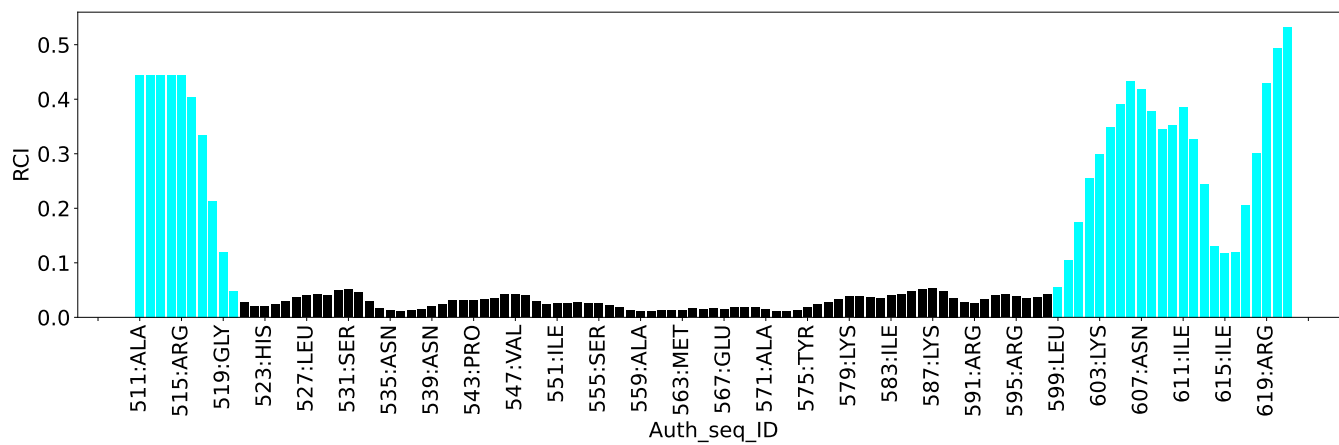
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

List Id	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	543	PRO	HB2	0.13	0.37 – 3.78	-5.7
1	A	572	MET	HA	2.02	2.11 – 6.67	-5.2

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	2838
Intra-residue ($ i-j =0$)	1193
Sequential ($ i-j =1$)	553
Medium range ($ i-j >1$ and $ i-j <5$)	401
Long range ($ i-j \geq 5$)	691
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	224
Number of unmapped restraints	0
Number of restraints per residue	27.3
Number of long range restraints per residue ¹	6.2

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)	65.6	0.2
0.2-0.5 (Medium)	102.6	0.5
>0.5 (Large)	120.8	3.03

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

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

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	49.6	9.97
10.0-20.0 (Medium)	None	None
>20.0 (Large)	None	None

9 Distance violation analysis i

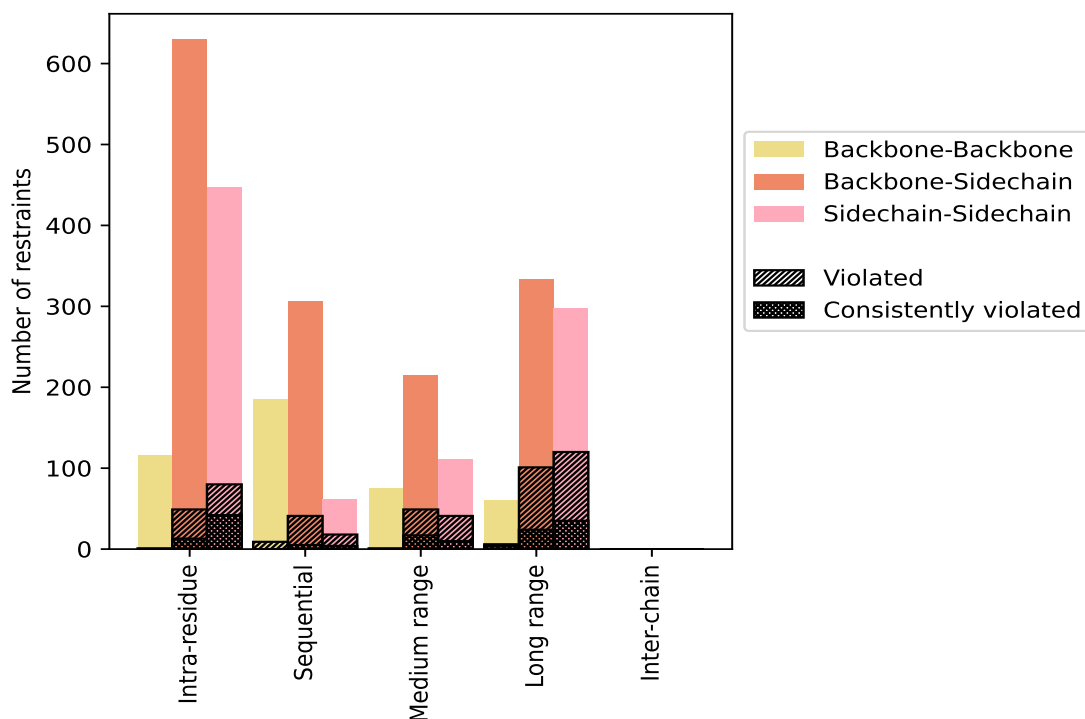
9.1 Summary of distance violations i

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	1193	42.0	130	10.9	4.6	55	4.6	1.9
Backbone-Backbone	116	4.1	1	0.9	0.0	0	0.0	0.0
Backbone-Sidechain	630	22.2	49	7.8	1.7	13	2.1	0.5
Sidechain-Sidechain	447	15.8	80	17.9	2.8	42	9.4	1.5
Sequential ($i-j =1$)	553	19.5	68	12.3	2.4	9	1.6	0.3
Backbone-Backbone	185	6.5	9	4.9	0.3	0	0.0	0.0
Backbone-Sidechain	306	10.8	41	13.4	1.4	5	1.6	0.2
Sidechain-Sidechain	62	2.2	18	29.0	0.6	4	6.5	0.1
Medium range ($i-j >1$ & $i-j <5$)	401	14.1	91	22.7	3.2	27	6.7	1.0
Backbone-Backbone	75	2.6	1	1.3	0.0	0	0.0	0.0
Backbone-Sidechain	215	7.6	49	22.8	1.7	17	7.9	0.6
Sidechain-Sidechain	111	3.9	41	36.9	1.4	10	9.0	0.4
Long range ($i-j \geq 5$)	691	24.3	227	32.9	8.0	63	9.1	2.2
Backbone-Backbone	60	2.1	6	10.0	0.2	4	6.7	0.1
Backbone-Sidechain	333	11.7	101	30.3	3.6	24	7.2	0.8
Sidechain-Sidechain	298	10.5	120	40.3	4.2	35	11.7	1.2
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	2838	100.0	516	18.2	18.2	154	5.4	5.4
Backbone-Backbone	436	15.4	17	3.9	0.6	4	0.9	0.1
Backbone-Sidechain	1484	52.3	240	16.2	8.5	59	4.0	2.1
Sidechain-Sidechain	918	32.3	259	28.2	9.1	91	9.9	3.2

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 disulfid bonds are counted in their appropriate category on the x-axis

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	85	32	61	127	0	305	0.56	2.77	0.48	0.4
2	80	23	54	133	0	290	0.57	2.89	0.49	0.41
3	87	28	50	123	0	288	0.55	2.7	0.46	0.41
4	87	23	53	125	0	288	0.53	2.59	0.44	0.4
5	84	25	57	128	0	294	0.58	2.85	0.48	0.42
6	87	24	57	128	0	296	0.57	2.81	0.51	0.4
7	84	22	58	126	0	290	0.57	2.67	0.49	0.4
8	86	18	58	121	0	283	0.6	2.8	0.5	0.44
9	87	25	53	124	0	289	0.56	2.77	0.47	0.42
10	87	28	55	128	0	298	0.56	2.74	0.48	0.39

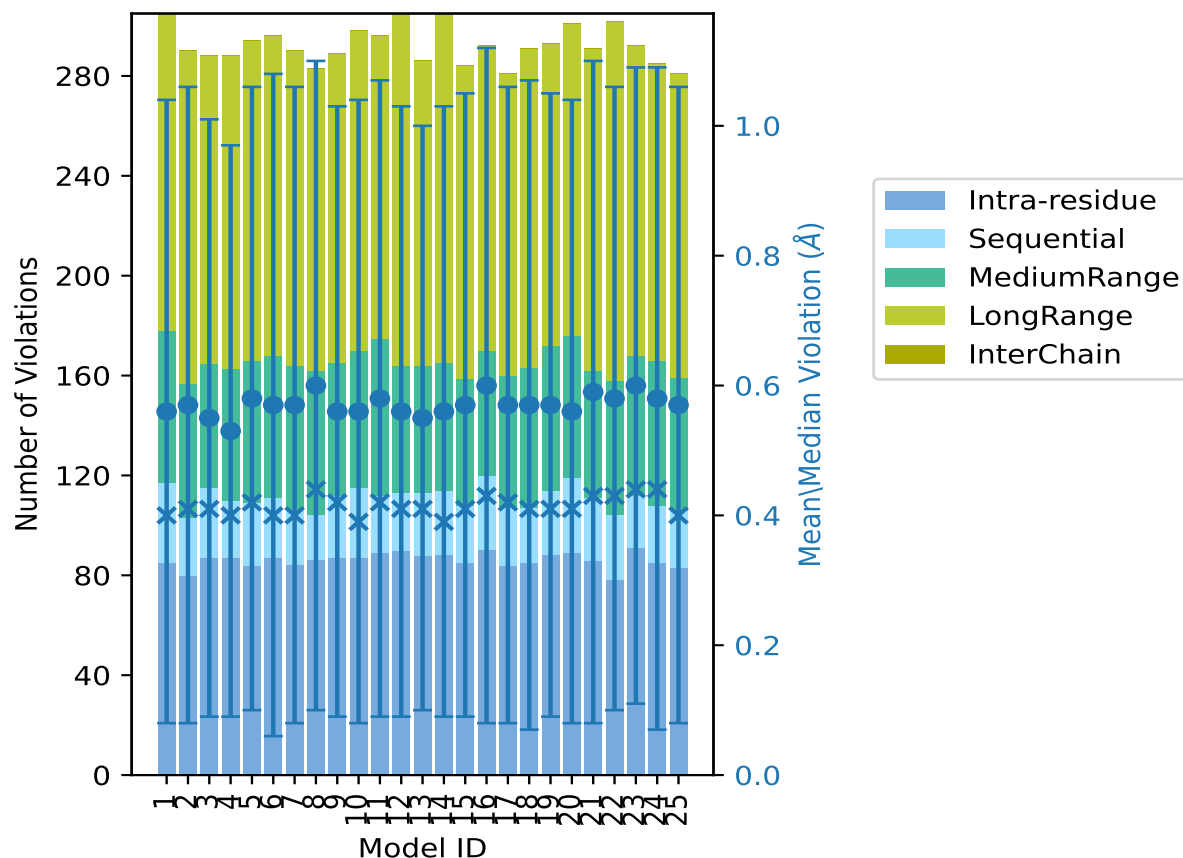
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	89	23	63	121	0	296	0.58	2.86	0.49	0.42
12	90	23	51	141	0	305	0.56	2.68	0.47	0.41
13	88	25	51	122	0	286	0.55	2.61	0.45	0.41
14	88	26	51	140	0	305	0.56	2.7	0.47	0.39
15	85	23	51	125	0	284	0.57	3.03	0.48	0.41
16	90	30	50	122	0	292	0.6	2.94	0.52	0.43
17	84	23	53	121	0	281	0.57	2.79	0.49	0.42
18	85	22	56	128	0	291	0.57	2.79	0.5	0.41
19	88	26	58	121	0	293	0.57	2.71	0.48	0.41
20	89	30	57	125	0	301	0.56	2.78	0.48	0.41
21	86	25	51	129	0	291	0.59	2.84	0.51	0.43
22	78	26	54	144	0	302	0.58	2.82	0.48	0.43
23	91	21	56	124	0	292	0.6	2.75	0.49	0.44
24	85	23	58	119	0	285	0.58	2.9	0.51	0.44
25	83	23	53	122	0	281	0.57	2.82	0.49	0.4

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, 2322(IR:1063, SQ:485, MR:310, LR:464, 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	%
11	8	7	25	0	51	1	4.0
10	6	3	15	0	34	2	8.0
2	8	8	11	0	29	3	12.0
8	6	4	10	0	28	4	16.0
1	2	1	11	0	15	5	20.0
4	2	1	6	0	13	6	24.0

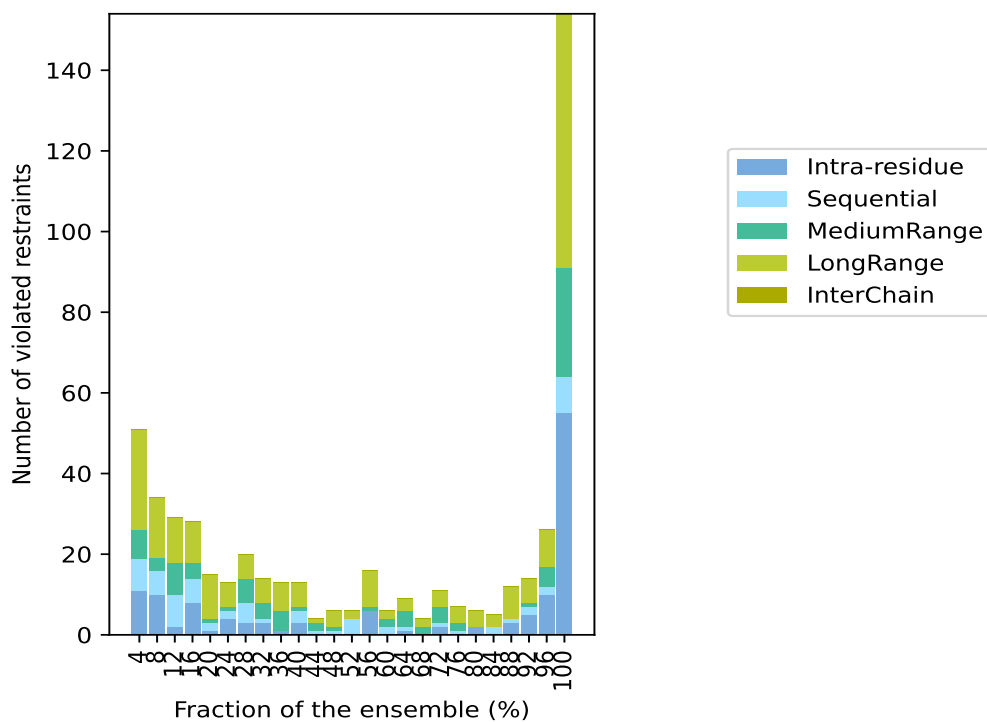
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
3	5	6	6	0	20	7	28.0
3	1	4	6	0	14	8	32.0
1	0	5	7	0	13	9	36.0
3	3	1	6	0	13	10	40.0
0	1	2	1	0	4	11	44.0
0	1	1	4	0	6	12	48.0
0	4	0	2	0	6	13	52.0
6	0	1	9	0	16	14	56.0
0	2	2	2	0	6	15	60.0
1	1	4	3	0	9	16	64.0
0	0	2	2	0	4	17	68.0
2	1	4	4	0	11	18	72.0
0	1	2	4	0	7	19	76.0
2	0	0	4	0	6	20	80.0
0	2	0	3	0	5	21	84.0
3	1	0	8	0	12	22	88.0
5	2	1	6	0	14	23	92.0
10	2	5	9	0	26	24	96.0
55	9	27	63	0	154	25	100.0

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

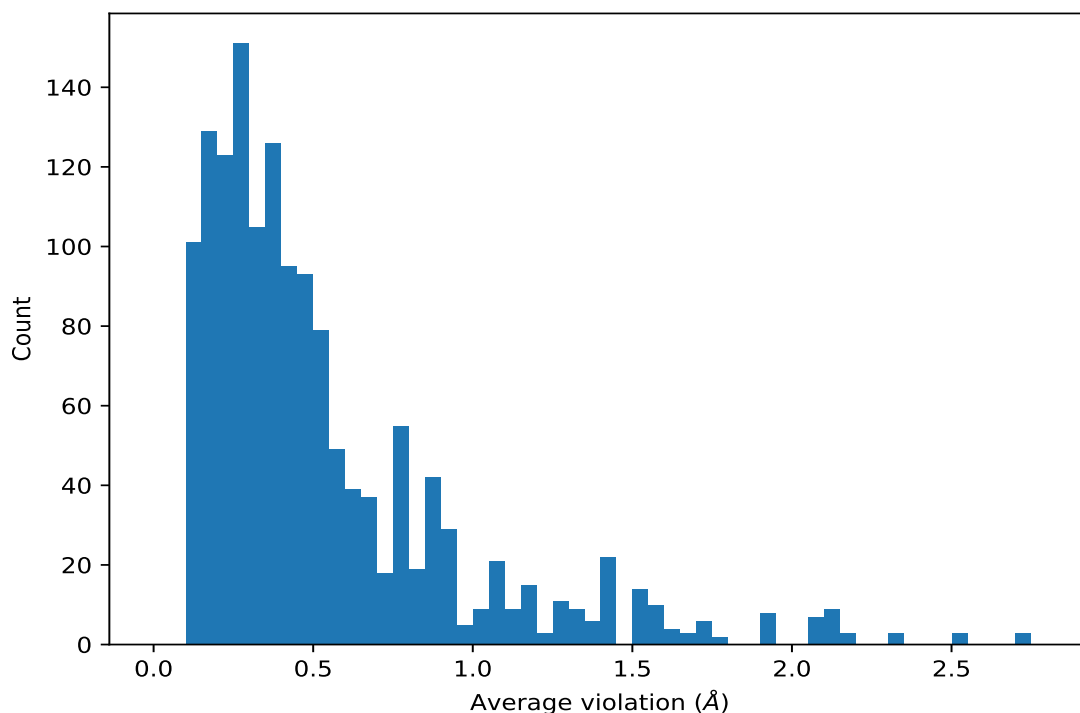
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD12	25	2.72	0.08	2.73
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	25	2.72	0.08	2.73
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	25	2.72	0.08	2.73
(1,1205)	1:552:A:LEU:HD12	1:560:A:PHE:H	25	2.52	0.22	2.52
(1,1205)	1:552:A:LEU:HD11	1:560:A:PHE:H	25	2.52	0.22	2.52
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	25	2.52	0.22	2.52
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD13	25	2.33	0.16	2.32
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD12	25	2.33	0.16	2.32
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	25	2.33	0.16	2.32
(1,319)	1:573:A:VAL:HG23	1:545:A:GLY:HA2	25	2.15	0.13	2.21
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	25	2.15	0.13	2.21
(1,319)	1:573:A:VAL:HG22	1:545:A:GLY:HA2	25	2.15	0.13	2.21
(3,10)	1:563:A:MET:HE1	1:548:A:THR:HA	25	2.1	0.3	2.05
(3,10)	1:553:A:MET:HE1	1:601:A:LEU:HA	25	2.1	0.3	2.05
(3,10)	1:563:A:MET:HE2	1:540:A:LEU:HA	25	2.1	0.3	2.05
(3,10)	1:563:A:MET:HE3	1:540:A:LEU:HA	25	2.1	0.3	2.05

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,10)	1:563:A:MET:HE2	1:548:A:THR:HA	25	2.1	0.3	2.05
(3,10)	1:553:A:MET:HE2	1:601:A:LEU:HA	25	2.1	0.3	2.05
(3,10)	1:553:A:MET:HE3	1:601:A:LEU:HA	25	2.1	0.3	2.05
(3,10)	1:563:A:MET:HE3	1:548:A:THR:HA	25	2.1	0.3	2.05
(3,10)	1:563:A:MET:HE1	1:540:A:LEU:HA	25	2.1	0.3	2.05
(3,188)	1:547:A:VAL:HG11	1:546:A:LYS:HG2	25	2.06	0.64	2.44
(3,188)	1:522:A:VAL:HG22	1:591:A:ARG:HG3	25	2.06	0.64	2.44
(3,188)	1:547:A:VAL:HG13	1:542:A:LEU:HB2	25	2.06	0.64	2.44
(3,188)	1:547:A:VAL:HG13	1:546:A:LYS:HG2	25	2.06	0.64	2.44
(3,188)	1:522:A:VAL:HG21	1:591:A:ARG:HG3	25	2.06	0.64	2.44
(3,188)	1:522:A:VAL:HG23	1:591:A:ARG:HG3	25	2.06	0.64	2.44
(3,188)	1:547:A:VAL:HG11	1:542:A:LEU:HB2	25	2.06	0.64	2.44
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	25	1.79	0.11	1.79
(3,524)	1:547:A:VAL:HA	1:549:A:ASN:HB3	25	1.79	0.11	1.79
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD13	25	1.73	0.42	1.8
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG21	25	1.73	0.42	1.8
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG23	25	1.73	0.42	1.8
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG22	25	1.73	0.42	1.8
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD12	25	1.73	0.42	1.8
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD11	25	1.73	0.42	1.8
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD13	25	1.66	0.01	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD12	25	1.66	0.01	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	25	1.66	0.01	1.66
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	25	1.64	0.16	1.63
(3,21)	1:563:A:MET:HE2	1:537:A:VAL:HA	25	1.64	0.16	1.63
(3,21)	1:563:A:MET:HE3	1:537:A:VAL:HA	25	1.64	0.16	1.63
(3,21)	1:563:A:MET:HE1	1:537:A:VAL:HA	25	1.64	0.16	1.63
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB2	25	1.58	0.27	1.66
(3,180)	1:568:A:ALA:HB1	1:562:A:GLU:HG2	25	1.58	0.27	1.66
(3,180)	1:568:A:ALA:HB1	1:516:A:LYS:HB2	25	1.58	0.27	1.66
(3,180)	1:568:A:ALA:HB3	1:516:A:LYS:HB2	25	1.58	0.27	1.66
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB3	25	1.58	0.27	1.66
(3,180)	1:568:A:ALA:HB2	1:562:A:GLU:HG2	25	1.58	0.27	1.66
(3,180)	1:568:A:ALA:HB3	1:562:A:GLU:HG2	25	1.58	0.27	1.66
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	25	1.56	0.09	1.56
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG22	25	1.56	0.09	1.56
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG23	25	1.56	0.09	1.56
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG21	25	1.54	0.06	1.55
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	25	1.54	0.06	1.55
(3,976)	1:550:A:TYR:H	1:552:A:LEU:HD12	25	1.54	0.06	1.55
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG22	25	1.54	0.06	1.55
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD21	25	1.5	0.18	1.52

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG13	25	1.5	0.18	1.52
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD23	25	1.5	0.18	1.52
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG12	25	1.5	0.18	1.52
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG11	25	1.5	0.18	1.52
(3,76)	1:564:A:ALA:HA	1:542:A:LEU:HD23	25	1.5	0.18	1.52
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD22	25	1.5	0.18	1.52
(3,76)	1:564:A:ALA:HA	1:542:A:LEU:HD21	25	1.5	0.18	1.52
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	25	1.44	0.16	1.41
(3,965)	1:545:A:GLY:H	1:575:A:TYR:HA	25	1.44	0.16	1.41
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	25	1.43	0.39	1.59
(3,431)	1:524:A:ILE:HD11	1:523:A:HIS:HD2	25	1.43	0.39	1.59
(3,431)	1:524:A:ILE:HD12	1:523:A:HIS:HD2	25	1.43	0.39	1.59
(3,809)	1:563:A:MET:HE1	1:561:A:LEU:HD12	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE2	1:573:A:VAL:HG21	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE2	1:561:A:LEU:HD11	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE2	1:561:A:LEU:HD12	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE3	1:561:A:LEU:HD12	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE3	1:561:A:LEU:HD11	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE3	1:573:A:VAL:HG21	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE3	1:561:A:LEU:HD13	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE3	1:573:A:VAL:HG22	25	1.4	0.16	1.41
(3,809)	1:522:A:VAL:HB	1:573:A:VAL:HG23	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE3	1:573:A:VAL:HG23	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE1	1:573:A:VAL:HG21	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE1	1:561:A:LEU:HD13	25	1.4	0.16	1.41
(3,809)	1:522:A:VAL:HB	1:573:A:VAL:HG21	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE1	1:561:A:LEU:HD11	25	1.4	0.16	1.41
(3,809)	1:563:A:MET:HE2	1:573:A:VAL:HG22	25	1.4	0.16	1.41
(1,328)	1:547:A:VAL:HG12	1:550:A:TYR:HB2	25	1.37	0.2	1.36
(1,328)	1:547:A:VAL:HG13	1:550:A:TYR:HB2	25	1.37	0.2	1.36
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	25	1.37	0.2	1.36
(3,1)	1:599:A:LEU:HD21	1:552:A:LEU:HG	25	1.31	0.22	1.27
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	25	1.31	0.22	1.27
(3,1)	1:599:A:LEU:HD22	1:552:A:LEU:HG	25	1.31	0.22	1.27
(3,1)	1:599:A:LEU:HD21	1:602:A:LYS:HB2	25	1.31	0.22	1.27
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	25	1.21	0.07	1.21
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	25	1.21	0.07	1.21
(1,189)	1:548:A:THR:HG21	1:566:A:THR:H	25	1.21	0.07	1.21
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG11	25	1.19	0.26	1.35
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG12	25	1.19	0.26	1.35
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG13	25	1.19	0.26	1.35
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG21	25	1.19	0.26	1.35

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG22	25	1.19	0.26	1.35
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG23	25	1.19	0.26	1.35
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	25	1.18	0.17	1.18
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG21	25	1.18	0.17	1.18
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG23	25	1.18	0.17	1.18
(3,140)	1:592:A:MET:HE1	1:563:A:MET:HB2	25	1.17	0.11	1.19
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	25	1.17	0.11	1.19
(3,140)	1:592:A:MET:HE2	1:563:A:MET:HB2	25	1.17	0.11	1.19
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	25	1.17	0.23	1.14
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	25	1.17	0.23	1.14
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	25	1.17	0.23	1.14
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	25	1.11	0.19	1.11
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG11	25	1.11	0.19	1.11
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	25	1.11	0.19	1.11
(3,169)	1:583:A:ILE:HD11	1:586:A:GLU:HB2	25	1.1	0.19	1.09
(3,169)	1:583:A:ILE:HD13	1:537:A:VAL:HB	25	1.1	0.19	1.09
(3,169)	1:583:A:ILE:HD11	1:537:A:VAL:HB	25	1.1	0.19	1.09
(3,169)	1:583:A:ILE:HD12	1:586:A:GLU:HB2	25	1.1	0.19	1.09
(3,169)	1:583:A:ILE:HD12	1:537:A:VAL:HB	25	1.1	0.19	1.09
(3,169)	1:583:A:ILE:HD13	1:586:A:GLU:HB2	25	1.1	0.19	1.09
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	25	1.09	0.22	1.07
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	25	1.09	0.22	1.07
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	25	1.09	0.22	1.07
(3,160)	1:522:A:VAL:HB	1:524:A:ILE:HD11	25	1.09	0.22	1.07
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	25	1.09	0.2	1.1
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB2	25	1.09	0.1	1.11
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB1	25	1.09	0.1	1.11
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB3	25	1.09	0.1	1.11
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB2	25	1.09	0.1	1.11
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB1	25	1.09	0.1	1.11
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB3	25	1.09	0.1	1.11
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD22	25	1.08	0.25	1.11
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	25	1.08	0.25	1.11
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD23	25	1.08	0.25	1.11
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	25	1.05	0.09	1.05
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	25	1.05	0.09	1.05
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD23	25	1.05	0.09	1.05
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	25	1.05	0.08	1.05
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	25	1.05	0.22	1.05
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	25	1.04	0.11	1.03
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG3	25	1.04	0.11	1.03
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	25	1.0	0.06	1.0

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,69)	1:588:A:LEU:HD12	1:591:A:ARG:H	25	1.0	0.06	1.0
(1,69)	1:588:A:LEU:HD13	1:591:A:ARG:H	25	1.0	0.06	1.0
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	25	0.97	0.05	0.95
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	25	0.93	0.26	0.95
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	25	0.93	0.18	0.92
(3,956)	1:524:A:ILE:HD12	1:542:A:LEU:H	25	0.93	0.18	0.92
(3,956)	1:524:A:ILE:HD13	1:542:A:LEU:H	25	0.93	0.18	0.92
(3,956)	1:590:A:ILE:HG21	1:542:A:LEU:H	25	0.93	0.18	0.92
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	25	0.92	0.09	0.9
(3,990)	1:547:A:VAL:HG11	1:560:A:PHE:H	25	0.92	0.09	0.9
(3,990)	1:547:A:VAL:HG13	1:560:A:PHE:H	25	0.92	0.09	0.9
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD11	25	0.9	0.4	0.86
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD12	25	0.9	0.4	0.86
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	25	0.9	0.4	0.86
(3,893)	1:537:A:VAL:HG12	1:527:A:LEU:H	25	0.9	0.4	0.86
(3,893)	1:537:A:VAL:HG13	1:527:A:LEU:H	25	0.9	0.4	0.86
(1,614)	1:552:A:LEU:HD22	1:550:A:TYR:HE1	25	0.89	0.31	0.94
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	25	0.89	0.31	0.94
(1,614)	1:552:A:LEU:HD23	1:550:A:TYR:HE1	25	0.89	0.31	0.94
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	25	0.89	0.09	0.89
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG22	25	0.89	0.09	0.89
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG23	25	0.89	0.09	0.89
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD11	25	0.87	0.12	0.88
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD11	25	0.87	0.12	0.88
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD11	25	0.87	0.12	0.88
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD12	25	0.87	0.12	0.88
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD13	25	0.87	0.12	0.88
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD13	25	0.87	0.12	0.88
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD12	25	0.87	0.12	0.88
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD13	25	0.87	0.12	0.88
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD12	25	0.87	0.12	0.88
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	25	0.86	0.01	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	25	0.85	0.01	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD21	25	0.85	0.01	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD22	25	0.85	0.01	0.85
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG21	25	0.85	0.02	0.85
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	25	0.85	0.02	0.85
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG23	25	0.85	0.02	0.85
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	25	0.84	0.04	0.84
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	25	0.83	0.01	0.83
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	25	0.82	0.01	0.82
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	25	0.8	0.08	0.79

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG22	25	0.8	0.08	0.79
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG21	25	0.8	0.08	0.79
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	25	0.79	0.04	0.78
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	25	0.79	0.04	0.78
(1,22)	1:573:A:VAL:HG12	1:576:A:TYR:HE1	25	0.79	0.04	0.78
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG22	25	0.79	0.17	0.77
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	25	0.79	0.17	0.77
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG23	25	0.79	0.17	0.77
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD21	25	0.79	0.01	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	25	0.79	0.01	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD23	25	0.79	0.01	0.79
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG21	25	0.78	0.17	0.72
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG22	25	0.78	0.17	0.72
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	25	0.78	0.17	0.72
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG13	25	0.77	0.1	0.77
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG12	25	0.77	0.1	0.77
(3,798)	1:527:A:LEU:HD13	1:537:A:VAL:HG13	25	0.77	0.1	0.77
(3,798)	1:527:A:LEU:HD13	1:537:A:VAL:HG12	25	0.77	0.1	0.77
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG11	25	0.77	0.1	0.77
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG12	25	0.77	0.1	0.77
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG11	25	0.77	0.1	0.77
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG13	25	0.77	0.1	0.77
(3,60)	1:578:A:GLU:HB2	1:574:A:GLN:HA	25	0.77	0.08	0.79
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	25	0.77	0.08	0.79
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	25	0.76	0.01	0.76
(3,836)	1:524:A:ILE:HD12	1:524:A:ILE:HG12	25	0.76	0.01	0.76
(3,836)	1:524:A:ILE:HD13	1:524:A:ILE:HG12	25	0.76	0.01	0.76
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	25	0.76	0.38	0.65
(3,138)	1:514:A:GLN:HB2	1:549:A:ASN:HA	25	0.76	0.38	0.65
(3,138)	1:534:A:GLU:HB3	1:553:A:MET:HA	25	0.76	0.38	0.65
(3,168)	1:538:A:ILE:HD11	1:561:A:LEU:HG	25	0.76	0.16	0.77
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	25	0.76	0.16	0.77
(3,168)	1:538:A:ILE:HD13	1:561:A:LEU:HG	25	0.76	0.16	0.77
(1,62)	1:572:A:MET:HE2	1:545:A:GLY:HA2	25	0.75	0.11	0.76
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	25	0.75	0.11	0.76
(1,62)	1:572:A:MET:HE1	1:545:A:GLY:HA2	25	0.75	0.11	0.76
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	25	0.75	0.21	0.76
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG23	25	0.75	0.21	0.76
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG22	25	0.75	0.21	0.76
(3,174)	1:590:A:ILE:HD13	1:587:A:LYS:HA	25	0.71	0.14	0.7
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	25	0.71	0.14	0.7
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	25	0.71	0.14	0.7

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	25	0.7	0.31	0.59
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	25	0.7	0.31	0.59
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG23	25	0.7	0.31	0.59
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD13	25	0.69	0.17	0.66
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD12	25	0.69	0.17	0.66
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD11	25	0.69	0.17	0.66
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD11	25	0.69	0.17	0.66
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD13	25	0.69	0.17	0.66
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD12	25	0.69	0.17	0.66
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	25	0.66	0.16	0.68
(3,8)	1:563:A:MET:HE1	1:565:A:TYR:H	25	0.66	0.13	0.66
(3,8)	1:553:A:MET:HE3	1:556:A:THR:H	25	0.66	0.13	0.66
(3,8)	1:553:A:MET:HE1	1:556:A:THR:H	25	0.66	0.13	0.66
(3,8)	1:563:A:MET:HE3	1:565:A:TYR:H	25	0.66	0.13	0.66
(3,8)	1:563:A:MET:HE2	1:565:A:TYR:H	25	0.66	0.13	0.66
(3,8)	1:553:A:MET:HE2	1:556:A:THR:H	25	0.66	0.13	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG23	25	0.66	0.01	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	25	0.66	0.01	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG21	25	0.66	0.01	0.66
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	25	0.65	0.05	0.66
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG21	25	0.65	0.05	0.66
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG22	25	0.65	0.05	0.66
(3,628)	1:563:A:MET:HG3	1:561:A:LEU:HD21	25	0.64	0.18	0.64
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	25	0.64	0.18	0.64
(3,628)	1:563:A:MET:HG3	1:561:A:LEU:HD22	25	0.64	0.18	0.64
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG11	25	0.64	0.18	0.64
(3,628)	1:563:A:MET:HG3	1:561:A:LEU:HD23	25	0.64	0.18	0.64
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	25	0.64	0.18	0.64
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	25	0.64	0.15	0.61
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	25	0.63	0.04	0.63
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD13	25	0.61	0.02	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD22	25	0.61	0.02	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD23	25	0.61	0.02	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD21	25	0.61	0.02	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD12	25	0.61	0.02	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD11	25	0.61	0.02	0.62
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB1	25	0.59	0.1	0.57
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB1	25	0.59	0.1	0.57
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB3	25	0.59	0.1	0.57
(3,853)	1:527:A:LEU:HD22	1:559:A:ALA:HB3	25	0.59	0.1	0.57
(3,853)	1:527:A:LEU:HD22	1:559:A:ALA:HB2	25	0.59	0.1	0.57
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB2	25	0.59	0.1	0.57

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB3	25	0.59	0.1	0.57
(3,853)	1:527:A:LEU:HD22	1:559:A:ALA:HB1	25	0.59	0.1	0.57
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB2	25	0.59	0.1	0.57
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	25	0.58	0.2	0.58
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG11	25	0.58	0.11	0.61
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	25	0.58	0.11	0.61
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD22	25	0.58	0.11	0.61
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG13	25	0.58	0.11	0.61
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG12	25	0.58	0.11	0.61
(3,942)	1:536:A:ASP:H	1:540:A:LEU:HD21	25	0.58	0.11	0.61
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD23	25	0.58	0.11	0.61
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD23	25	0.57	0.15	0.61
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	25	0.57	0.15	0.61
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	25	0.57	0.15	0.61
(3,615)	1:550:A:TYR:HB3	1:552:A:LEU:HD13	25	0.57	0.15	0.61
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	25	0.57	0.22	0.59
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	25	0.54	0.03	0.54
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	25	0.54	0.03	0.54
(1,1772)	1:612:A:ILE:HG21	1:612:A:ILE:H	25	0.54	0.03	0.54
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB1	25	0.53	0.11	0.52
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	25	0.53	0.11	0.52
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	25	0.53	0.11	0.52
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	25	0.53	0.11	0.52
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	25	0.53	0.11	0.52
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB2	25	0.53	0.11	0.52
(3,825)	1:524:A:ILE:HG21	1:559:A:ALA:HB3	25	0.53	0.11	0.52
(3,825)	1:524:A:ILE:HG21	1:559:A:ALA:HB2	25	0.53	0.11	0.52
(3,825)	1:524:A:ILE:HG21	1:559:A:ALA:HB1	25	0.53	0.11	0.52
(3,796)	1:590:A:ILE:HG22	1:522:A:VAL:HG12	25	0.53	0.05	0.53
(3,796)	1:590:A:ILE:HG23	1:522:A:VAL:HG11	25	0.53	0.05	0.53
(3,796)	1:590:A:ILE:HG23	1:524:A:ILE:HG12	25	0.53	0.05	0.53
(3,796)	1:590:A:ILE:HG22	1:522:A:VAL:HG11	25	0.53	0.05	0.53
(3,796)	1:590:A:ILE:HG21	1:522:A:VAL:HG11	25	0.53	0.05	0.53
(3,796)	1:590:A:ILE:HG22	1:522:A:VAL:HG13	25	0.53	0.05	0.53
(3,796)	1:590:A:ILE:HG21	1:524:A:ILE:HG12	25	0.53	0.05	0.53
(3,796)	1:590:A:ILE:HG21	1:522:A:VAL:HG12	25	0.53	0.05	0.53
(3,796)	1:590:A:ILE:HG23	1:522:A:VAL:HG12	25	0.53	0.05	0.53
(3,796)	1:590:A:ILE:HG22	1:524:A:ILE:HG12	25	0.53	0.05	0.53
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	25	0.52	0.08	0.51
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	25	0.52	0.08	0.51
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD12	25	0.52	0.08	0.51
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	25	0.51	0.13	0.49

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	25	0.51	0.13	0.49
(1,719)	1:599:A:LEU:HD21	1:599:A:LEU:HD11	25	0.49	0.05	0.49
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD13	25	0.49	0.05	0.49
(1,719)	1:599:A:LEU:HD21	1:599:A:LEU:HD13	25	0.49	0.05	0.49
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD11	25	0.49	0.05	0.49
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD13	25	0.49	0.05	0.49
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD11	25	0.49	0.05	0.49
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD12	25	0.49	0.05	0.49
(1,719)	1:599:A:LEU:HD21	1:599:A:LEU:HD12	25	0.49	0.05	0.49
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD12	25	0.49	0.05	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	25	0.49	0.01	0.49
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	25	0.49	0.1	0.48
(3,415)	1:563:A:MET:HE3	1:576:A:TYR:HE1	25	0.49	0.1	0.48
(3,415)	1:563:A:MET:HE1	1:576:A:TYR:HE1	25	0.49	0.1	0.48
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	25	0.47	0.15	0.51
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	25	0.47	0.1	0.46
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	25	0.47	0.1	0.46
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG13	25	0.47	0.1	0.46
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD23	25	0.47	0.01	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD22	25	0.47	0.01	0.47
(3,777)	1:590:A:ILE:HB	1:590:A:ILE:HG21	25	0.47	0.01	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD21	25	0.47	0.01	0.47
(3,777)	1:590:A:ILE:HB	1:590:A:ILE:HG22	25	0.47	0.01	0.47
(3,777)	1:590:A:ILE:HB	1:590:A:ILE:HG23	25	0.47	0.01	0.47
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB1	25	0.46	0.02	0.46
(3,162)	1:609:A:ALA:HA	1:609:A:ALA:HB2	25	0.46	0.02	0.46
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB3	25	0.46	0.02	0.46
(3,162)	1:610:A:ALA:HA	1:610:A:ALA:HB1	25	0.46	0.02	0.46
(3,162)	1:609:A:ALA:HA	1:609:A:ALA:HB3	25	0.46	0.02	0.46
(3,162)	1:511:A:ALA:HA	1:511:A:ALA:HB1	25	0.46	0.02	0.46
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB2	25	0.46	0.02	0.46
(3,162)	1:610:A:ALA:HA	1:610:A:ALA:HB2	25	0.46	0.02	0.46
(3,162)	1:609:A:ALA:HA	1:609:A:ALA:HB1	25	0.46	0.02	0.46
(3,162)	1:511:A:ALA:HA	1:511:A:ALA:HB2	25	0.46	0.02	0.46
(3,162)	1:610:A:ALA:HA	1:610:A:ALA:HB3	25	0.46	0.02	0.46
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	25	0.46	0.06	0.46
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE1	25	0.46	0.06	0.46
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE2	25	0.46	0.06	0.46
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	25	0.46	0.13	0.48
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	25	0.46	0.13	0.48
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD22	25	0.46	0.13	0.48
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB1	25	0.45	0.06	0.45

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB3	25	0.45	0.06	0.45
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB2	25	0.45	0.06	0.45
(1,981)	1:527:A:LEU:HD13	1:559:A:ALA:HB3	25	0.45	0.06	0.45
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB2	25	0.45	0.06	0.45
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB3	25	0.45	0.06	0.45
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB1	25	0.45	0.06	0.45
(1,981)	1:527:A:LEU:HD13	1:559:A:ALA:HB1	25	0.45	0.06	0.45
(1,981)	1:527:A:LEU:HD13	1:559:A:ALA:HB2	25	0.45	0.06	0.45
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	25	0.45	0.08	0.47
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	25	0.45	0.08	0.47
(1,341)	1:573:A:VAL:HG12	1:589:A:LEU:HG	25	0.45	0.08	0.47
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	25	0.44	0.1	0.49
(1,831)	1:572:A:MET:HE1	1:563:A:MET:HA	25	0.44	0.1	0.49
(1,831)	1:572:A:MET:HE2	1:563:A:MET:HA	25	0.44	0.1	0.49
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG23	25	0.44	0.24	0.44
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG21	25	0.44	0.24	0.44
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	25	0.44	0.24	0.44
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD23	25	0.43	0.11	0.44
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD23	25	0.43	0.11	0.44
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD23	25	0.43	0.11	0.44
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD22	25	0.43	0.11	0.44
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD21	25	0.43	0.11	0.44
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD22	25	0.43	0.11	0.44
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD21	25	0.43	0.11	0.44
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD21	25	0.43	0.11	0.44
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD22	25	0.43	0.11	0.44
(1,997)	1:522:A:VAL:HG22	1:522:A:VAL:HG12	25	0.42	0.01	0.42
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG11	25	0.42	0.01	0.42
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG11	25	0.42	0.01	0.42
(1,997)	1:522:A:VAL:HG22	1:522:A:VAL:HG13	25	0.42	0.01	0.42
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG12	25	0.42	0.01	0.42
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG13	25	0.42	0.01	0.42
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG12	25	0.42	0.01	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG12	25	0.42	0.01	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	25	0.42	0.01	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	25	0.42	0.01	0.42
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	25	0.41	0.03	0.42
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD12	25	0.41	0.03	0.42
(3,746)	1:599:A:LEU:HB3	1:599:A:LEU:HD11	25	0.41	0.03	0.42
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD11	25	0.41	0.03	0.42
(3,746)	1:599:A:LEU:HB3	1:599:A:LEU:HD13	25	0.41	0.03	0.42
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG11	25	0.41	0.01	0.41

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG23	25	0.41	0.01	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG13	25	0.41	0.01	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG22	25	0.41	0.01	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG21	25	0.41	0.01	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG12	25	0.41	0.01	0.41
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD12	25	0.4	0.01	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD13	25	0.4	0.01	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	25	0.4	0.01	0.4
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	25	0.4	0.05	0.41
(3,848)	1:619:A:ARG:HB2	1:619:A:ARG:HG3	25	0.4	0.05	0.41
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG2	25	0.4	0.05	0.41
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	25	0.4	0.01	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD13	25	0.4	0.01	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD12	25	0.4	0.01	0.4
(3,151)	1:589:A:LEU:HB2	1:589:A:LEU:HD23	25	0.4	0.01	0.4
(3,151)	1:589:A:LEU:HB3	1:589:A:LEU:HD23	25	0.4	0.01	0.4
(3,84)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	25	0.39	0.02	0.4
(3,84)	1:603:A:LYS:HD2	1:603:A:LYS:HE2	25	0.39	0.02	0.4
(3,84)	1:546:A:LYS:HD2	1:546:A:LYS:HE3	25	0.39	0.02	0.4
(3,84)	1:546:A:LYS:HD3	1:546:A:LYS:HE3	25	0.39	0.02	0.4
(3,84)	1:603:A:LYS:HD3	1:603:A:LYS:HE2	25	0.39	0.02	0.4
(3,84)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	25	0.39	0.02	0.4
(3,84)	1:602:A:LYS:HD2	1:602:A:LYS:HE2	25	0.39	0.02	0.4
(3,84)	1:602:A:LYS:HD2	1:602:A:LYS:HE3	25	0.39	0.02	0.4
(3,84)	1:546:A:LYS:HD2	1:546:A:LYS:HE2	25	0.39	0.02	0.4
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD12	25	0.39	0.01	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD11	25	0.39	0.01	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	25	0.39	0.01	0.39
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	25	0.38	0.0	0.38
(1,357)	1:521:A:VAL:HG21	1:521:A:VAL:HG23	25	0.38	0.0	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG23	25	0.38	0.0	0.38
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	25	0.37	0.12	0.4
(3,239)	1:515:A:ARG:HB2	1:563:A:MET:H	25	0.37	0.12	0.4
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB1	25	0.37	0.1	0.36
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	25	0.37	0.1	0.36
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	25	0.37	0.1	0.36
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	25	0.37	0.1	0.36
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	25	0.37	0.1	0.36
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB2	25	0.37	0.1	0.36
(1,309)	1:524:A:ILE:HG21	1:559:A:ALA:HB3	25	0.37	0.1	0.36
(1,309)	1:524:A:ILE:HG21	1:559:A:ALA:HB2	25	0.37	0.1	0.36
(1,309)	1:524:A:ILE:HG21	1:559:A:ALA:HB1	25	0.37	0.1	0.36

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	25	0.37	0.02	0.38
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	25	0.37	0.02	0.38
(3,694)	1:546:A:LYS:HD2	1:546:A:LYS:HE3	25	0.37	0.02	0.38
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE3	25	0.37	0.02	0.38
(3,694)	1:602:A:LYS:HD2	1:602:A:LYS:HE2	25	0.37	0.02	0.38
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE3	25	0.37	0.02	0.38
(3,694)	1:602:A:LYS:HD2	1:602:A:LYS:HE3	25	0.37	0.02	0.38
(3,694)	1:546:A:LYS:HD2	1:546:A:LYS:HE2	25	0.37	0.02	0.38
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	25	0.36	0.02	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD13	25	0.36	0.02	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	25	0.36	0.02	0.37
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	25	0.36	0.02	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	25	0.36	0.02	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG13	25	0.36	0.02	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD13	25	0.36	0.01	0.36
(3,770)	1:615:A:ILE:HG12	1:615:A:ILE:HD12	25	0.36	0.01	0.36
(3,770)	1:615:A:ILE:HG12	1:615:A:ILE:HD13	25	0.36	0.01	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD11	25	0.36	0.01	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD12	25	0.36	0.01	0.36
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	25	0.36	0.06	0.37
(3,905)	1:526:A:ASN:H	1:587:A:LYS:HA	25	0.35	0.14	0.31
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	25	0.35	0.14	0.31
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG12	25	0.35	0.11	0.35
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG13	25	0.35	0.11	0.35
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG11	25	0.35	0.11	0.35
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG12	25	0.35	0.11	0.35
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG11	25	0.35	0.11	0.35
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG13	25	0.35	0.11	0.35
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG12	25	0.35	0.11	0.35
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG11	25	0.35	0.11	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG23	25	0.35	0.01	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG21	25	0.35	0.01	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG22	25	0.35	0.01	0.35
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG21	25	0.35	0.01	0.35
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG23	25	0.35	0.01	0.35
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG22	25	0.35	0.01	0.35
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD23	25	0.34	0.01	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD21	25	0.34	0.01	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	25	0.34	0.01	0.34
(3,184)	1:551:A:ILE:HG13	1:601:A:LEU:HD21	25	0.34	0.01	0.34
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	25	0.3	0.22	0.23
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE3	25	0.3	0.22	0.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE1	25	0.3	0.22	0.23
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	25	0.3	0.05	0.31
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG22	25	0.29	0.01	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	25	0.29	0.01	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	25	0.29	0.01	0.29
(3,161)	1:563:A:MET:HE3	1:561:A:LEU:HD21	25	0.29	0.13	0.24
(3,161)	1:553:A:MET:HE1	1:551:A:ILE:HG22	25	0.29	0.13	0.24
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD23	25	0.29	0.13	0.24
(3,161)	1:563:A:MET:HE3	1:561:A:LEU:HD22	25	0.29	0.13	0.24
(3,161)	1:563:A:MET:HE1	1:561:A:LEU:HD23	25	0.29	0.13	0.24
(3,161)	1:553:A:MET:HE1	1:551:A:ILE:HG23	25	0.29	0.13	0.24
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD21	25	0.29	0.13	0.24
(3,161)	1:553:A:MET:HE3	1:551:A:ILE:HG22	25	0.29	0.13	0.24
(3,161)	1:563:A:MET:HE3	1:561:A:LEU:HD23	25	0.29	0.13	0.24
(3,161)	1:563:A:MET:HE1	1:561:A:LEU:HD21	25	0.29	0.13	0.24
(3,161)	1:553:A:MET:HE2	1:551:A:ILE:HG22	25	0.29	0.13	0.24
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD22	25	0.29	0.13	0.24
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	25	0.28	0.0	0.28
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	25	0.28	0.0	0.28
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG12	25	0.27	0.12	0.29
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG11	25	0.27	0.12	0.29
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	25	0.27	0.12	0.29
(3,824)	1:559:A:ALA:HB1	1:537:A:VAL:HG11	25	0.27	0.12	0.29
(3,824)	1:559:A:ALA:HB1	1:537:A:VAL:HG12	25	0.27	0.12	0.29
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG13	25	0.27	0.12	0.29
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG11	25	0.27	0.12	0.29
(3,824)	1:559:A:ALA:HB1	1:537:A:VAL:HG13	25	0.27	0.12	0.29
(3,824)	1:589:A:LEU:HD23	1:589:A:LEU:HG	25	0.27	0.12	0.29
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG13	25	0.27	0.12	0.29
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD13	25	0.27	0.02	0.27
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	25	0.27	0.02	0.27
(3,787)	1:583:A:ILE:HB	1:583:A:ILE:HG23	25	0.27	0.02	0.27
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	25	0.27	0.02	0.27
(3,787)	1:583:A:ILE:HB	1:583:A:ILE:HG21	25	0.27	0.02	0.27
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD11	25	0.27	0.02	0.27
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD13	25	0.27	0.02	0.27
(3,787)	1:583:A:ILE:HB	1:583:A:ILE:HG22	25	0.27	0.02	0.27
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD12	25	0.27	0.02	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG21	25	0.26	0.01	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG22	25	0.26	0.01	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	25	0.26	0.01	0.26
(3,755)	1:540:A:LEU:HG	1:540:A:LEU:HD12	25	0.26	0.03	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	25	0.26	0.03	0.26
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD13	25	0.26	0.03	0.26
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD11	25	0.26	0.03	0.26
(3,755)	1:540:A:LEU:HG	1:540:A:LEU:HD13	25	0.26	0.03	0.26
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	25	0.26	0.04	0.25
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	25	0.25	0.05	0.24
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	25	0.24	0.02	0.25
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	25	0.24	0.01	0.24
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD13	25	0.24	0.01	0.24
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD11	25	0.24	0.01	0.24
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	25	0.23	0.01	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB3	25	0.23	0.01	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB1	25	0.23	0.01	0.23
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	25	0.22	0.04	0.22
(3,790)	1:547:A:VAL:HG13	1:561:A:LEU:HD12	25	0.22	0.04	0.22
(3,790)	1:547:A:VAL:HG13	1:561:A:LEU:HD11	25	0.22	0.04	0.22
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD12	25	0.22	0.04	0.22
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	25	0.22	0.04	0.22
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	25	0.22	0.04	0.22
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD13	25	0.22	0.04	0.22
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD11	25	0.22	0.04	0.22
(3,790)	1:547:A:VAL:HG13	1:561:A:LEU:HD13	25	0.22	0.04	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	25	0.21	0.01	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB1	25	0.21	0.01	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB3	25	0.21	0.01	0.22
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG22	25	0.21	0.02	0.22
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG23	25	0.21	0.02	0.22
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG23	25	0.21	0.02	0.22
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG22	25	0.21	0.02	0.22
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG21	25	0.21	0.02	0.22
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG23	25	0.21	0.02	0.22
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG21	25	0.21	0.02	0.22
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG22	25	0.21	0.02	0.22
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG21	25	0.21	0.02	0.22
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	25	0.21	0.0	0.21
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	25	0.2	0.01	0.2
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD13	25	0.2	0.01	0.2
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD11	25	0.2	0.01	0.2
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD22	25	0.2	0.02	0.2
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	25	0.2	0.02	0.2
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD23	25	0.2	0.02	0.2
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG23	25	0.19	0.01	0.19

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	25	0.19	0.01	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG22	25	0.19	0.01	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD23	25	0.19	0.01	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	25	0.19	0.01	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD21	25	0.19	0.01	0.19
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	25	0.18	0.04	0.19
(1,337)	1:547:A:VAL:HG13	1:561:A:LEU:HD12	25	0.18	0.04	0.19
(1,337)	1:547:A:VAL:HG13	1:561:A:LEU:HD11	25	0.18	0.04	0.19
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD12	25	0.18	0.04	0.19
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	25	0.18	0.04	0.19
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	25	0.18	0.04	0.19
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD13	25	0.18	0.04	0.19
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD11	25	0.18	0.04	0.19
(1,337)	1:547:A:VAL:HG13	1:561:A:LEU:HD13	25	0.18	0.04	0.19
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG23	25	0.18	0.01	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	25	0.18	0.01	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG22	25	0.18	0.01	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	25	0.18	0.02	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD11	25	0.18	0.02	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD12	25	0.18	0.02	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	25	0.17	0.01	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	25	0.17	0.01	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG22	25	0.17	0.01	0.17
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD12	25	0.16	0.01	0.16
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG23	25	0.16	0.01	0.16
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG22	25	0.16	0.01	0.16
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD13	25	0.16	0.01	0.16
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG21	25	0.16	0.01	0.16
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD11	25	0.16	0.01	0.16
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD11	25	0.16	0.03	0.15
(1,284)	1:581:A:ALA:HB3	1:540:A:LEU:HD12	25	0.16	0.03	0.15
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD13	25	0.16	0.03	0.15
(1,284)	1:581:A:ALA:HB3	1:540:A:LEU:HD13	25	0.16	0.03	0.15
(1,284)	1:581:A:ALA:HB2	1:540:A:LEU:HD11	25	0.16	0.03	0.15
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD12	25	0.16	0.03	0.15
(1,284)	1:581:A:ALA:HB2	1:540:A:LEU:HD12	25	0.16	0.03	0.15
(1,284)	1:581:A:ALA:HB2	1:540:A:LEU:HD13	25	0.16	0.03	0.15
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	25	0.16	0.01	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB1	25	0.16	0.01	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	25	0.16	0.01	0.16
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	25	0.16	0.02	0.15
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD13	25	0.16	0.02	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD11	25	0.16	0.02	0.15
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	25	0.16	0.01	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	25	0.16	0.01	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG21	25	0.16	0.01	0.16
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	25	0.15	0.01	0.15
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	25	0.15	0.01	0.15
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG22	25	0.15	0.01	0.15
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG21	25	0.15	0.01	0.15
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG22	25	0.13	0.01	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	25	0.13	0.01	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	25	0.13	0.01	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	25	0.13	0.0	0.13
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	25	0.12	0.0	0.12
(3,819)	1:611:A:ILE:HG12	1:611:A:ILE:HG13	25	0.12	0.0	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	25	0.12	0.0	0.12
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG23	24	1.92	0.64	1.98
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	24	1.92	0.64	1.98
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG22	24	1.92	0.64	1.98
(3,192)	1:515:A:ARG:HG3	1:566:A:THR:HG23	24	1.92	0.64	1.98
(3,192)	1:515:A:ARG:HG3	1:566:A:THR:HG22	24	1.92	0.64	1.98
(3,192)	1:515:A:ARG:HG3	1:566:A:THR:HG21	24	1.92	0.64	1.98
(3,192)	1:515:A:ARG:HG3	1:599:A:LEU:HB3	24	1.92	0.64	1.98
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG21	24	1.92	0.64	1.98
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	24	1.25	0.58	1.36
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	24	1.25	0.58	1.36
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG3	24	1.25	0.58	1.36
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	24	0.94	0.09	0.92
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG22	24	0.94	0.09	0.92
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG21	24	0.94	0.09	0.92
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	24	0.93	0.55	0.82
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	24	0.93	0.38	0.8
(3,913)	1:556:A:THR:H	1:528:A:PRO:HD2	24	0.93	0.38	0.8
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	24	0.81	0.21	0.72
(3,969)	1:606:A:LYS:HG3	1:547:A:VAL:H	24	0.81	0.21	0.72
(3,969)	1:516:A:LYS:HG3	1:547:A:VAL:H	24	0.81	0.21	0.72
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	24	0.77	0.6	0.55
(3,176)	1:583:A:ILE:HG22	1:586:A:GLU:HB2	24	0.77	0.6	0.55
(3,176)	1:583:A:ILE:HG21	1:586:A:GLU:HB2	24	0.77	0.6	0.55
(3,176)	1:528:A:PRO:HB3	1:583:A:ILE:HG23	24	0.77	0.6	0.55
(3,176)	1:528:A:PRO:HB3	1:583:A:ILE:HG22	24	0.77	0.6	0.55
(3,176)	1:528:A:PRO:HB3	1:583:A:ILE:HG21	24	0.77	0.6	0.55
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	24	0.63	0.19	0.66

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,1006)	1:577:A:GLN:HE21	1:572:A:MET:H	24	0.63	0.19	0.66
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	24	0.59	0.34	0.45
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG23	24	0.54	0.18	0.57
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	24	0.54	0.18	0.57
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	24	0.54	0.18	0.57
(3,709)	1:592:A:MET:HE1	1:570:A:GLN:HA	24	0.51	0.15	0.55
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	24	0.51	0.15	0.55
(3,709)	1:592:A:MET:HE2	1:570:A:GLN:HA	24	0.51	0.15	0.55
(3,709)	1:528:A:PRO:HB3	1:531:A:SER:HB3	24	0.51	0.15	0.55
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG23	24	0.46	0.19	0.5
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG12	24	0.46	0.19	0.5
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG11	24	0.46	0.19	0.5
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG22	24	0.46	0.19	0.5
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG13	24	0.46	0.19	0.5
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	24	0.44	0.16	0.42
(3,416)	1:572:A:MET:HA	1:576:A:TYR:HE1	24	0.44	0.16	0.42
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	24	0.37	0.13	0.38
(3,557)	1:563:A:MET:HB3	1:569:A:ALA:HA	24	0.37	0.13	0.38
(3,654)	1:604:A:PRO:HD3	1:603:A:LYS:HB3	24	0.31	0.1	0.3
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	24	0.31	0.1	0.3
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD11	24	0.3	0.1	0.32
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD13	24	0.3	0.1	0.32
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD12	24	0.3	0.1	0.32
(1,303)	1:524:A:ILE:HD13	1:590:A:ILE:HD13	24	0.3	0.1	0.32
(1,303)	1:524:A:ILE:HD13	1:590:A:ILE:HD11	24	0.3	0.1	0.32
(1,303)	1:524:A:ILE:HD13	1:590:A:ILE:HD12	24	0.3	0.1	0.32
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD13	24	0.3	0.1	0.32
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD11	24	0.3	0.1	0.32
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD12	24	0.3	0.1	0.32
(3,779)	1:563:A:MET:HE3	1:561:A:LEU:HD21	24	0.26	0.12	0.26
(3,779)	1:553:A:MET:HE1	1:551:A:ILE:HG22	24	0.26	0.12	0.26
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD23	24	0.26	0.12	0.26
(3,779)	1:563:A:MET:HE3	1:561:A:LEU:HD22	24	0.26	0.12	0.26
(3,779)	1:563:A:MET:HE1	1:561:A:LEU:HD23	24	0.26	0.12	0.26
(3,779)	1:553:A:MET:HE1	1:551:A:ILE:HG23	24	0.26	0.12	0.26
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD21	24	0.26	0.12	0.26
(3,779)	1:553:A:MET:HE3	1:551:A:ILE:HG22	24	0.26	0.12	0.26
(3,779)	1:563:A:MET:HE3	1:561:A:LEU:HD23	24	0.26	0.12	0.26
(3,779)	1:563:A:MET:HE1	1:561:A:LEU:HD21	24	0.26	0.12	0.26
(3,779)	1:553:A:MET:HE2	1:551:A:ILE:HG22	24	0.26	0.12	0.26
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD22	24	0.26	0.12	0.26
(1,298)	1:582:A:ILE:HD12	1:587:A:LYS:HG2	24	0.24	0.07	0.22

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,298)	1:582:A:ILE:HD11	1:587:A:LYS:HG2	24	0.24	0.07	0.22
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	24	0.24	0.07	0.22
(1,298)	1:582:A:ILE:HD12	1:587:A:LYS:HG3	24	0.24	0.07	0.22
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD12	24	0.23	0.02	0.24
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD11	24	0.23	0.02	0.24
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD13	24	0.23	0.02	0.24
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD12	24	0.23	0.02	0.24
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD13	24	0.23	0.02	0.24
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD11	24	0.23	0.02	0.24
(1,1759)	1:609:A:ALA:HB2	1:609:A:ALA:H	24	0.21	0.08	0.18
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	24	0.21	0.08	0.18
(1,1759)	1:609:A:ALA:HB3	1:609:A:ALA:H	24	0.21	0.08	0.18
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	24	0.16	0.01	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG22	24	0.16	0.01	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	24	0.16	0.01	0.16
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	24	0.16	0.04	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD12	24	0.16	0.02	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	24	0.16	0.02	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	24	0.16	0.02	0.16
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG23	24	0.13	0.01	0.13
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG21	24	0.13	0.01	0.13
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG22	24	0.13	0.01	0.13
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG21	24	0.13	0.01	0.13
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG23	24	0.13	0.01	0.13
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG22	24	0.13	0.01	0.13
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	24	0.12	0.01	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD13	24	0.11	0.01	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD12	24	0.11	0.01	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	24	0.11	0.01	0.12
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	23	0.96	0.67	1.12
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD22	23	0.87	0.25	0.82
(3,753)	1:599:A:LEU:HD13	1:601:A:LEU:HD23	23	0.87	0.25	0.82
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD21	23	0.87	0.25	0.82
(3,753)	1:599:A:LEU:HD13	1:601:A:LEU:HD21	23	0.87	0.25	0.82
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD21	23	0.87	0.25	0.82
(3,753)	1:599:A:LEU:HD13	1:601:A:LEU:HD22	23	0.87	0.25	0.82
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD23	23	0.87	0.25	0.82
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD23	23	0.87	0.25	0.82
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD22	23	0.87	0.25	0.82
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE2	23	0.55	0.2	0.52
(3,430)	1:521:A:VAL:HG12	1:596:A:TYR:HE1	23	0.55	0.2	0.52
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE2	23	0.55	0.2	0.52

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE1	23	0.55	0.2	0.52
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE1	23	0.55	0.2	0.52
(3,430)	1:551:A:ILE:HG12	1:596:A:TYR:HE1	23	0.55	0.2	0.52
(3,430)	1:521:A:VAL:HG12	1:596:A:TYR:HE2	23	0.55	0.2	0.52
(3,745)	1:537:A:VAL:HG23	1:527:A:LEU:HD12	23	0.54	0.19	0.6
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD12	23	0.54	0.19	0.6
(3,745)	1:537:A:VAL:HG23	1:527:A:LEU:HD11	23	0.54	0.19	0.6
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD11	23	0.54	0.19	0.6
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD12	23	0.54	0.19	0.6
(3,745)	1:537:A:VAL:HG23	1:527:A:LEU:HD13	23	0.54	0.19	0.6
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD13	23	0.54	0.19	0.6
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD13	23	0.54	0.19	0.6
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD11	23	0.54	0.19	0.6
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	23	0.45	0.2	0.41
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE2	23	0.45	0.2	0.41
(3,815)	1:559:A:ALA:HB3	1:552:A:LEU:HG	23	0.42	0.08	0.41
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	23	0.42	0.08	0.41
(3,815)	1:559:A:ALA:HB1	1:552:A:LEU:HG	23	0.42	0.08	0.41
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG22	23	0.3	0.15	0.29
(1,991)	1:599:A:LEU:HD12	1:521:A:VAL:HG23	23	0.3	0.15	0.29
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG23	23	0.3	0.15	0.29
(1,991)	1:599:A:LEU:HD12	1:521:A:VAL:HG21	23	0.3	0.15	0.29
(1,991)	1:599:A:LEU:HD11	1:521:A:VAL:HG21	23	0.3	0.15	0.29
(1,991)	1:599:A:LEU:HD12	1:521:A:VAL:HG22	23	0.3	0.15	0.29
(1,991)	1:599:A:LEU:HD11	1:521:A:VAL:HG22	23	0.3	0.15	0.29
(1,991)	1:599:A:LEU:HD11	1:521:A:VAL:HG23	23	0.3	0.15	0.29
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG21	23	0.3	0.15	0.29
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD12	23	0.17	0.03	0.16
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	23	0.17	0.03	0.16
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	23	0.17	0.03	0.16
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	23	0.14	0.02	0.14
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	23	0.13	0.01	0.14
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG23	23	0.13	0.02	0.13
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG21	23	0.13	0.02	0.13
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG21	23	0.13	0.02	0.13
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG21	23	0.13	0.02	0.13
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG22	23	0.13	0.02	0.13
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG23	23	0.13	0.02	0.13
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG23	23	0.13	0.02	0.13
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG22	23	0.13	0.02	0.13
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG22	23	0.13	0.02	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD13	23	0.12	0.01	0.13

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	23	0.12	0.01	0.13
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD13	23	0.12	0.01	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	23	0.12	0.01	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD11	23	0.12	0.01	0.13
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD12	23	0.12	0.01	0.13
(3,775)	1:583:A:ILE:HD12	1:583:A:ILE:HG13	23	0.12	0.01	0.12
(3,775)	1:615:A:ILE:HD11	1:615:A:ILE:HG13	23	0.12	0.01	0.12
(3,775)	1:583:A:ILE:HD11	1:583:A:ILE:HG13	23	0.12	0.01	0.12
(3,775)	1:583:A:ILE:HD13	1:583:A:ILE:HG13	23	0.12	0.01	0.12
(3,775)	1:615:A:ILE:HD13	1:615:A:ILE:HG13	23	0.12	0.01	0.12
(3,775)	1:615:A:ILE:HD12	1:615:A:ILE:HG13	23	0.12	0.01	0.12
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	23	0.12	0.01	0.12
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	23	0.12	0.01	0.12
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG21	23	0.12	0.01	0.12
(3,771)	1:581:A:ALA:HB1	1:590:A:ILE:HG12	22	0.54	0.18	0.57
(3,771)	1:573:A:VAL:HG13	1:590:A:ILE:HG23	22	0.54	0.18	0.57
(3,771)	1:573:A:VAL:HG13	1:590:A:ILE:HG22	22	0.54	0.18	0.57
(3,771)	1:573:A:VAL:HG11	1:590:A:ILE:HG22	22	0.54	0.18	0.57
(3,771)	1:573:A:VAL:HG12	1:590:A:ILE:HG22	22	0.54	0.18	0.57
(3,771)	1:573:A:VAL:HG11	1:590:A:ILE:HG21	22	0.54	0.18	0.57
(3,771)	1:581:A:ALA:HB1	1:583:A:ILE:HD11	22	0.54	0.18	0.57
(3,771)	1:573:A:VAL:HG11	1:590:A:ILE:HG23	22	0.54	0.18	0.57
(3,771)	1:581:A:ALA:HB3	1:590:A:ILE:HG12	22	0.54	0.18	0.57
(3,771)	1:581:A:ALA:HB2	1:590:A:ILE:HG12	22	0.54	0.18	0.57
(3,771)	1:573:A:VAL:HG13	1:590:A:ILE:HG21	22	0.54	0.18	0.57
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	22	0.52	0.29	0.49
(3,1001)	1:567:A:GLU:H	1:592:A:MET:HE1	22	0.52	0.29	0.49
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	22	0.51	0.16	0.5
(3,395)	1:516:A:LYS:HD3	1:616:A:HIS:HD2	22	0.51	0.16	0.5
(3,395)	1:516:A:LYS:HD2	1:616:A:HIS:HD2	22	0.51	0.16	0.5
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	22	0.41	0.04	0.42
(3,742)	1:588:A:LEU:HD12	1:590:A:ILE:HD13	22	0.41	0.18	0.37
(3,742)	1:590:A:ILE:HD12	1:540:A:LEU:HD23	22	0.41	0.18	0.37
(3,742)	1:588:A:LEU:HD12	1:590:A:ILE:HD11	22	0.41	0.18	0.37
(3,742)	1:588:A:LEU:HD13	1:590:A:ILE:HD11	22	0.41	0.18	0.37
(3,742)	1:590:A:ILE:HD13	1:540:A:LEU:HD21	22	0.41	0.18	0.37
(3,742)	1:590:A:ILE:HD11	1:540:A:LEU:HD21	22	0.41	0.18	0.37
(3,742)	1:588:A:LEU:HD11	1:590:A:ILE:HD11	22	0.41	0.18	0.37
(3,742)	1:590:A:ILE:HD11	1:540:A:LEU:HD23	22	0.41	0.18	0.37
(3,742)	1:590:A:ILE:HD11	1:540:A:LEU:HD22	22	0.41	0.18	0.37
(3,742)	1:588:A:LEU:HD12	1:590:A:ILE:HD12	22	0.41	0.18	0.37
(3,742)	1:588:A:LEU:HD13	1:590:A:ILE:HD12	22	0.41	0.18	0.37

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	22	0.36	0.19	0.33
(3,112)	1:561:A:LEU:HB3	1:537:A:VAL:HG13	22	0.36	0.19	0.33
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	22	0.36	0.19	0.33
(3,112)	1:561:A:LEU:HB3	1:537:A:VAL:HG11	22	0.36	0.19	0.33
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	22	0.36	0.19	0.33
(3,939)	1:527:A:LEU:HD23	1:533:A:THR:H	22	0.36	0.13	0.35
(3,939)	1:527:A:LEU:HD22	1:533:A:THR:H	22	0.36	0.13	0.35
(3,939)	1:527:A:LEU:HD21	1:533:A:THR:H	22	0.36	0.13	0.35
(1,1135)	1:533:A:THR:HG21	1:532:A:CYS:H	22	0.29	0.11	0.28
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	22	0.29	0.11	0.28
(1,1135)	1:533:A:THR:HG23	1:532:A:CYS:H	22	0.29	0.11	0.28
(1,1708)	1:592:A:MET:HE1	1:570:A:GLN:H	22	0.25	0.05	0.25
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	22	0.25	0.05	0.25
(1,1708)	1:592:A:MET:HE2	1:570:A:GLN:H	22	0.25	0.05	0.25
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	22	0.19	0.06	0.19
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG23	22	0.19	0.06	0.19
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG21	22	0.19	0.06	0.19
(1,1544)	1:564:A:ALA:HB2	1:564:A:ALA:H	22	0.15	0.01	0.15
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	22	0.15	0.01	0.15
(1,1544)	1:564:A:ALA:HB1	1:564:A:ALA:H	22	0.15	0.01	0.15
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	22	0.14	0.02	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	22	0.14	0.02	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG13	22	0.14	0.02	0.14
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	21	1.36	0.35	1.39
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	21	1.36	0.35	1.39
(3,45)	1:600:A:GLN:HG2	1:518:A:ALA:H	21	1.36	0.35	1.39
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	21	0.77	0.09	0.81
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	21	0.47	0.16	0.43
(3,855)	1:602:A:LYS:HD3	1:603:A:LYS:HG3	21	0.47	0.16	0.43
(3,855)	1:513:A:ALA:HB2	1:515:A:ARG:HG3	21	0.47	0.16	0.43
(3,855)	1:602:A:LYS:HD2	1:603:A:LYS:HG3	21	0.47	0.16	0.43
(3,855)	1:513:A:ALA:HB3	1:515:A:ARG:HG2	21	0.47	0.16	0.43
(3,855)	1:602:A:LYS:HD3	1:603:A:LYS:HG2	21	0.47	0.16	0.43
(3,998)	1:572:A:MET:HE3	1:564:A:ALA:H	21	0.36	0.14	0.36
(3,998)	1:572:A:MET:HE1	1:564:A:ALA:H	21	0.36	0.14	0.36
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	21	0.36	0.14	0.36
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD13	21	0.35	0.14	0.34
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD12	21	0.35	0.14	0.34
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD11	21	0.35	0.14	0.34
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	20	0.85	0.51	0.88
(1,392)	1:518:A:ALA:HB1	1:570:A:GLN:HE22	20	0.69	0.28	0.76
(1,392)	1:518:A:ALA:HB3	1:570:A:GLN:HE22	20	0.69	0.28	0.76

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,392)	1:518:A:ALA:HB2	1:570:A:GLN:HE22	20	0.69	0.28	0.76
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	20	0.46	0.51	0.28
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE1	20	0.39	0.13	0.42
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE2	20	0.39	0.13	0.42
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE3	20	0.39	0.13	0.42
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG21	20	0.12	0.01	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	20	0.12	0.01	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG23	20	0.12	0.01	0.12
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD13	20	0.11	0.01	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD11	20	0.11	0.01	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD12	20	0.11	0.01	0.11
(3,929)	1:514:A:GLN:H	1:606:A:LYS:HE2	19	0.81	0.28	0.82
(3,929)	1:514:A:GLN:H	1:546:A:LYS:HE2	19	0.81	0.28	0.82
(3,929)	1:514:A:GLN:H	1:606:A:LYS:HE3	19	0.81	0.28	0.82
(3,929)	1:514:A:GLN:H	1:516:A:LYS:HE2	19	0.81	0.28	0.82
(3,929)	1:514:A:GLN:H	1:546:A:LYS:HE3	19	0.81	0.28	0.82
(3,929)	1:514:A:GLN:H	1:516:A:LYS:HE3	19	0.81	0.28	0.82
(1,282)	1:513:A:ALA:HB3	1:549:A:ASN:HA	19	0.54	0.25	0.53
(1,282)	1:513:A:ALA:HB2	1:549:A:ASN:HA	19	0.54	0.25	0.53
(1,282)	1:513:A:ALA:HB1	1:549:A:ASN:HA	19	0.54	0.25	0.53
(3,752)	1:538:A:ILE:HD13	1:552:A:LEU:HD12	19	0.46	0.28	0.42
(3,752)	1:538:A:ILE:HD11	1:552:A:LEU:HD11	19	0.46	0.28	0.42
(3,752)	1:538:A:ILE:HD11	1:552:A:LEU:HD13	19	0.46	0.28	0.42
(3,752)	1:538:A:ILE:HD12	1:552:A:LEU:HD12	19	0.46	0.28	0.42
(3,752)	1:538:A:ILE:HD12	1:552:A:LEU:HD13	19	0.46	0.28	0.42
(3,752)	1:538:A:ILE:HD13	1:552:A:LEU:HD11	19	0.46	0.28	0.42
(3,752)	1:538:A:ILE:HD13	1:552:A:LEU:HD13	19	0.46	0.28	0.42
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	19	0.4	0.2	0.34
(3,7)	1:563:A:MET:HE2	1:542:A:LEU:H	19	0.4	0.2	0.34
(3,7)	1:563:A:MET:HE3	1:542:A:LEU:H	19	0.4	0.2	0.34
(1,61)	1:592:A:MET:HE1	1:570:A:GLN:HA	19	0.27	0.09	0.27
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	19	0.27	0.09	0.27
(1,61)	1:592:A:MET:HE2	1:570:A:GLN:HA	19	0.27	0.09	0.27
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG22	19	0.25	0.06	0.27
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG23	19	0.25	0.06	0.27
(1,274)	1:563:A:MET:HE3	1:522:A:VAL:HG23	19	0.25	0.06	0.27
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG23	19	0.25	0.06	0.27
(1,274)	1:563:A:MET:HE3	1:522:A:VAL:HG22	19	0.25	0.06	0.27
(1,274)	1:563:A:MET:HE3	1:522:A:VAL:HG21	19	0.25	0.06	0.27
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG22	19	0.25	0.06	0.27
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG21	19	0.25	0.06	0.27
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG21	19	0.25	0.06	0.27

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,778)	1:542:A:LEU:HG	1:538:A:ILE:HG22	19	0.14	0.02	0.13
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	19	0.14	0.02	0.13
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD12	19	0.14	0.02	0.13
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD11	19	0.14	0.02	0.13
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	18	0.53	0.21	0.49
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD12	18	0.51	0.2	0.54
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD11	18	0.51	0.2	0.54
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD13	18	0.51	0.2	0.54
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	18	0.44	0.37	0.31
(3,134)	1:618:A:GLN:HB3	1:620:A:GLU:HA	18	0.44	0.37	0.31
(3,134)	1:613:A:GLN:HB2	1:620:A:GLU:HA	18	0.44	0.37	0.31
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG12	18	0.33	0.21	0.26
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG11	18	0.33	0.21	0.26
(3,751)	1:599:A:LEU:HD12	1:521:A:VAL:HG12	18	0.33	0.21	0.26
(3,751)	1:599:A:LEU:HD11	1:521:A:VAL:HG12	18	0.33	0.21	0.26
(3,751)	1:599:A:LEU:HD11	1:521:A:VAL:HG13	18	0.33	0.21	0.26
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG13	18	0.33	0.21	0.26
(3,751)	1:599:A:LEU:HD11	1:551:A:ILE:HG12	18	0.33	0.21	0.26
(3,751)	1:599:A:LEU:HD12	1:521:A:VAL:HG11	18	0.33	0.21	0.26
(3,1008)	1:522:A:VAL:HG12	1:572:A:MET:H	18	0.3	0.12	0.28
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	18	0.3	0.12	0.28
(3,1008)	1:522:A:VAL:HG13	1:572:A:MET:H	18	0.3	0.12	0.28
(3,808)	1:563:A:MET:HE3	1:561:A:LEU:HD21	18	0.29	0.13	0.35
(3,808)	1:563:A:MET:HE1	1:561:A:LEU:HD23	18	0.29	0.13	0.35
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD23	18	0.29	0.13	0.35
(3,808)	1:563:A:MET:HE3	1:561:A:LEU:HD22	18	0.29	0.13	0.35
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD22	18	0.29	0.13	0.35
(3,808)	1:563:A:MET:HE3	1:561:A:LEU:HD23	18	0.29	0.13	0.35
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD21	18	0.29	0.13	0.35
(3,808)	1:563:A:MET:HE1	1:561:A:LEU:HD21	18	0.29	0.13	0.35
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	18	0.28	0.1	0.28
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	18	0.22	0.09	0.2
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	18	0.21	0.07	0.2
(3,518)	1:572:A:MET:HE3	1:544:A:PHE:HD1	18	0.21	0.07	0.2
(3,518)	1:572:A:MET:HE2	1:544:A:PHE:HD1	18	0.21	0.07	0.2
(1,317)	1:547:A:VAL:HG11	1:549:A:ASN:HA	18	0.21	0.07	0.22
(1,317)	1:547:A:VAL:HG12	1:549:A:ASN:HA	18	0.21	0.07	0.22
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	18	0.21	0.07	0.22
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	18	0.2	0.06	0.18
(3,637)	1:552:A:LEU:HA	1:554:A:LYS:HG2	18	0.2	0.06	0.18
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	17	0.94	0.18	0.95
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	17	0.69	0.33	0.68

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,973)	1:512:A:MET:HB2	1:549:A:ASN:H	17	0.69	0.33	0.68
(3,973)	1:549:A:ASN:H	1:512:A:MET:HE1	17	0.69	0.33	0.68
(3,973)	1:549:A:ASN:H	1:512:A:MET:HE2	17	0.69	0.33	0.68
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD21	17	0.68	0.35	0.74
(3,187)	1:606:A:LYS:HG2	1:601:A:LEU:HD13	17	0.68	0.35	0.74
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD11	17	0.68	0.35	0.74
(3,187)	1:603:A:LYS:HG2	1:601:A:LEU:HD21	17	0.68	0.35	0.74
(3,187)	1:603:A:LYS:HG2	1:601:A:LEU:HD22	17	0.68	0.35	0.74
(3,187)	1:606:A:LYS:HG3	1:601:A:LEU:HD12	17	0.68	0.35	0.74
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD13	17	0.68	0.35	0.74
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD22	17	0.68	0.35	0.74
(3,187)	1:603:A:LYS:HG2	1:601:A:LEU:HD13	17	0.68	0.35	0.74
(3,390)	1:540:A:LEU:HD21	1:576:A:TYR:HE2	17	0.61	0.19	0.62
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	17	0.61	0.19	0.62
(3,390)	1:540:A:LEU:HD22	1:576:A:TYR:HE2	17	0.61	0.19	0.62
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB3	16	0.89	0.43	0.94
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB2	16	0.89	0.43	0.94
(3,620)	1:525:A:CYS:HB3	1:589:A:LEU:HG	16	0.89	0.43	0.94
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB1	16	0.89	0.43	0.94
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	16	0.76	0.17	0.74
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	16	0.65	0.21	0.7
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG23	16	0.4	0.17	0.38
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG23	16	0.4	0.17	0.38
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG21	16	0.4	0.17	0.38
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG21	16	0.4	0.17	0.38
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG22	16	0.4	0.17	0.38
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG22	16	0.4	0.17	0.38
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	16	0.34	0.14	0.33
(1,1457)	1:547:A:VAL:HG12	1:549:A:ASN:H	16	0.24	0.06	0.24
(1,1457)	1:547:A:VAL:HG13	1:549:A:ASN:H	16	0.24	0.06	0.24
(1,1457)	1:547:A:VAL:HG11	1:549:A:ASN:H	16	0.24	0.06	0.24
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD12	16	0.21	0.07	0.21
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD13	16	0.21	0.07	0.21
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD11	16	0.21	0.07	0.21
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB2	16	0.15	0.03	0.14
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB1	16	0.15	0.03	0.14
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB3	16	0.15	0.03	0.14
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	16	0.14	0.03	0.14
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD13	15	1.28	0.48	1.23
(3,585)	1:617:A:SER:HB2	1:615:A:ILE:HG21	15	1.28	0.48	1.23
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD12	15	1.28	0.48	1.23
(3,585)	1:617:A:SER:HB3	1:615:A:ILE:HD12	15	1.28	0.48	1.23

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,585)	1:617:A:SER:HB3	1:615:A:ILE:HG21	15	1.28	0.48	1.23
(3,585)	1:617:A:SER:HB2	1:615:A:ILE:HG23	15	1.28	0.48	1.23
(3,585)	1:617:A:SER:HB2	1:615:A:ILE:HD11	15	1.28	0.48	1.23
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD11	15	1.28	0.48	1.23
(1,338)	1:513:A:ALA:HB1	1:515:A:ARG:HG2	15	0.76	0.25	0.73
(1,338)	1:513:A:ALA:HB3	1:515:A:ARG:HG2	15	0.76	0.25	0.73
(1,338)	1:513:A:ALA:HB3	1:515:A:ARG:HG3	15	0.76	0.25	0.73
(1,338)	1:513:A:ALA:HB2	1:515:A:ARG:HG2	15	0.76	0.25	0.73
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	15	0.36	0.07	0.35
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	15	0.25	0.09	0.23
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB3	15	0.25	0.09	0.23
(3,13)	1:572:A:MET:HE1	1:570:A:GLN:H	15	0.23	0.15	0.17
(3,13)	1:572:A:MET:HE2	1:570:A:GLN:H	15	0.23	0.15	0.17
(3,13)	1:572:A:MET:HE3	1:564:A:ALA:H	15	0.23	0.15	0.17
(3,13)	1:572:A:MET:HE3	1:570:A:GLN:H	15	0.23	0.15	0.17
(3,13)	1:572:A:MET:HE2	1:564:A:ALA:H	15	0.23	0.15	0.17
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG22	15	0.23	0.09	0.22
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG21	15	0.23	0.09	0.22
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG23	15	0.23	0.09	0.22
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	14	1.52	0.76	1.78
(3,926)	1:577:A:GLN:HB3	1:574:A:GLN:HE22	14	1.52	0.76	1.78
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	14	0.9	0.4	0.92
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	14	0.79	0.41	0.74
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD1	14	0.79	0.41	0.74
(3,922)	1:615:A:ILE:HD12	1:615:A:ILE:H	14	0.62	0.25	0.55
(3,922)	1:615:A:ILE:HD13	1:615:A:ILE:H	14	0.62	0.25	0.55
(3,922)	1:615:A:ILE:HD11	1:615:A:ILE:H	14	0.62	0.25	0.55
(3,922)	1:615:A:ILE:HG21	1:615:A:ILE:H	14	0.62	0.25	0.55
(3,922)	1:615:A:ILE:HG23	1:615:A:ILE:H	14	0.62	0.25	0.55
(1,391)	1:518:A:ALA:HB1	1:570:A:GLN:HE21	14	0.47	0.21	0.5
(1,391)	1:518:A:ALA:HB3	1:570:A:GLN:HE21	14	0.47	0.21	0.5
(1,391)	1:518:A:ALA:HB2	1:570:A:GLN:HE21	14	0.47	0.21	0.5
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	14	0.33	0.01	0.33
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD22	14	0.31	0.18	0.23
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD23	14	0.31	0.18	0.23
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD21	14	0.31	0.18	0.23
(3,802)	1:561:A:LEU:HB3	1:537:A:VAL:HG13	14	0.3	0.11	0.33
(3,802)	1:601:A:LEU:HD21	1:551:A:ILE:HB	14	0.3	0.11	0.33
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	14	0.3	0.11	0.33
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	14	0.3	0.11	0.33
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	14	0.3	0.11	0.33
(3,802)	1:601:A:LEU:HD23	1:551:A:ILE:HB	14	0.3	0.11	0.33

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1685)	1:588:A:LEU:HD12	1:581:A:ALA:H	14	0.3	0.1	0.3
(1,1685)	1:588:A:LEU:HD13	1:581:A:ALA:H	14	0.3	0.1	0.3
(1,1685)	1:588:A:LEU:HD11	1:581:A:ALA:H	14	0.3	0.1	0.3
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG21	14	0.23	0.12	0.25
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG23	14	0.23	0.12	0.25
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG22	14	0.23	0.12	0.25
(3,774)	1:559:A:ALA:HB3	1:537:A:VAL:HG12	14	0.22	0.07	0.21
(3,774)	1:559:A:ALA:HB3	1:537:A:VAL:HG11	14	0.22	0.07	0.21
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	14	0.22	0.07	0.21
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG13	14	0.22	0.07	0.21
(3,774)	1:559:A:ALA:HB1	1:537:A:VAL:HG13	14	0.22	0.07	0.21
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG11	14	0.22	0.07	0.21
(3,774)	1:559:A:ALA:HB1	1:537:A:VAL:HG11	14	0.22	0.07	0.21
(3,792)	1:564:A:ALA:HB2	1:548:A:THR:HG23	14	0.17	0.06	0.15
(3,792)	1:547:A:VAL:HG22	1:542:A:LEU:HD23	14	0.17	0.06	0.15
(3,792)	1:564:A:ALA:HB1	1:548:A:THR:HG23	14	0.17	0.06	0.15
(3,792)	1:547:A:VAL:HG23	1:542:A:LEU:HD23	14	0.17	0.06	0.15
(3,792)	1:547:A:VAL:HG21	1:542:A:LEU:HD23	14	0.17	0.06	0.15
(3,792)	1:547:A:VAL:HG23	1:542:A:LEU:HD22	14	0.17	0.06	0.15
(3,792)	1:564:A:ALA:HB3	1:548:A:THR:HG22	14	0.17	0.06	0.15
(3,792)	1:547:A:VAL:HG22	1:542:A:LEU:HD21	14	0.17	0.06	0.15
(3,792)	1:547:A:VAL:HG21	1:542:A:LEU:HD22	14	0.17	0.06	0.15
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	14	0.16	0.03	0.15
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	14	0.13	0.02	0.12
(3,142)	1:516:A:LYS:HG2	1:516:A:LYS:HD3	14	0.12	0.02	0.12
(3,142)	1:606:A:LYS:HG2	1:606:A:LYS:HD3	14	0.12	0.02	0.12
(3,142)	1:516:A:LYS:HG3	1:516:A:LYS:HD2	14	0.12	0.02	0.12
(3,142)	1:603:A:LYS:HD2	1:603:A:LYS:HG3	14	0.12	0.02	0.12
(3,142)	1:603:A:LYS:HD3	1:603:A:LYS:HG2	14	0.12	0.02	0.12
(3,142)	1:606:A:LYS:HG3	1:606:A:LYS:HD2	14	0.12	0.02	0.12
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD12	14	0.11	0.01	0.11
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD13	14	0.11	0.01	0.11
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD11	14	0.11	0.01	0.11
(3,413)	1:613:A:GLN:HB2	1:565:A:TYR:HE1	13	0.57	0.36	0.46
(3,413)	1:534:A:GLU:HG2	1:535:A:ASN:HD22	13	0.57	0.36	0.46
(3,413)	1:567:A:GLU:HB3	1:565:A:TYR:HE2	13	0.57	0.36	0.46
(3,413)	1:613:A:GLN:HB2	1:565:A:TYR:HE2	13	0.57	0.36	0.46
(3,413)	1:613:A:GLN:HB3	1:565:A:TYR:HE2	13	0.57	0.36	0.46
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	13	0.48	0.13	0.53
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB2	13	0.32	0.17	0.26
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB3	13	0.32	0.17	0.26
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB1	13	0.32	0.17	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE2	13	0.3	0.12	0.33
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE3	13	0.3	0.12	0.33
(3,741)	1:599:A:LEU:HD13	1:521:A:VAL:HG22	13	0.25	0.08	0.28
(3,741)	1:599:A:LEU:HD12	1:521:A:VAL:HG23	13	0.25	0.08	0.28
(3,741)	1:599:A:LEU:HD11	1:521:A:VAL:HG21	13	0.25	0.08	0.28
(3,741)	1:599:A:LEU:HD13	1:521:A:VAL:HG23	13	0.25	0.08	0.28
(3,741)	1:599:A:LEU:HD11	1:551:A:ILE:HD11	13	0.25	0.08	0.28
(3,741)	1:599:A:LEU:HD12	1:551:A:ILE:HD12	13	0.25	0.08	0.28
(3,741)	1:599:A:LEU:HD11	1:521:A:VAL:HG23	13	0.25	0.08	0.28
(3,741)	1:599:A:LEU:HD13	1:521:A:VAL:HG21	13	0.25	0.08	0.28
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	13	0.14	0.03	0.13
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	12	0.88	0.45	1.02
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD1	12	0.88	0.45	1.02
(1,80)	1:514:A:GLN:HB2	1:518:A:ALA:H	12	0.55	0.28	0.48
(1,80)	1:514:A:GLN:HB3	1:518:A:ALA:H	12	0.55	0.28	0.48
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	12	0.39	0.17	0.39
(3,964)	1:570:A:GLN:HB2	1:545:A:GLY:H	12	0.39	0.17	0.39
(1,1761)	1:610:A:ALA:HB3	1:611:A:ILE:H	12	0.37	0.12	0.38
(1,1761)	1:610:A:ALA:HB2	1:611:A:ILE:H	12	0.37	0.12	0.38
(1,1761)	1:610:A:ALA:HB1	1:611:A:ILE:H	12	0.37	0.12	0.38
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	12	0.36	0.17	0.31
(1,249)	1:620:A:GLU:HB2	1:612:A:ILE:HG12	12	0.36	0.17	0.31
(3,9)	1:563:A:MET:HE3	1:576:A:TYR:HE1	12	0.17	0.06	0.16
(3,9)	1:563:A:MET:HE1	1:576:A:TYR:HE1	12	0.17	0.06	0.16
(3,9)	1:563:A:MET:HE2	1:576:A:TYR:HE1	12	0.17	0.06	0.16
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD22	11	0.31	0.12	0.3
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD21	11	0.31	0.12	0.3
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD23	11	0.31	0.12	0.3
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG22	11	0.26	0.09	0.26
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG21	11	0.26	0.09	0.26
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG23	11	0.26	0.09	0.26
(1,316)	1:556:A:THR:HG22	1:553:A:MET:HA	11	0.24	0.1	0.23
(1,316)	1:556:A:THR:HG21	1:553:A:MET:HA	11	0.24	0.1	0.23
(1,316)	1:556:A:THR:HG23	1:553:A:MET:HA	11	0.24	0.1	0.23
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD12	11	0.19	0.06	0.17
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD11	11	0.19	0.06	0.17
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD13	11	0.19	0.06	0.17
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	10	0.93	0.56	0.82
(1,173)	1:514:A:GLN:HG3	1:600:A:GLN:HE21	10	0.91	0.6	0.75
(1,173)	1:514:A:GLN:HG2	1:600:A:GLN:HE21	10	0.91	0.6	0.75
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	10	0.82	0.35	0.99
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	10	0.78	0.05	0.79

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	10	0.52	0.3	0.48
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	10	0.51	0.09	0.52
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	10	0.5	0.08	0.52
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	10	0.36	0.2	0.3
(3,30)	1:612:A:ILE:HD11	1:610:A:ALA:H	10	0.33	0.18	0.32
(3,30)	1:611:A:ILE:HD12	1:610:A:ALA:H	10	0.33	0.18	0.32
(3,30)	1:612:A:ILE:HD13	1:610:A:ALA:H	10	0.33	0.18	0.32
(3,30)	1:611:A:ILE:HD11	1:610:A:ALA:H	10	0.33	0.18	0.32
(3,30)	1:612:A:ILE:HD12	1:610:A:ALA:H	10	0.33	0.18	0.32
(1,310)	1:524:A:ILE:HG21	1:590:A:ILE:HD12	10	0.25	0.11	0.21
(1,310)	1:524:A:ILE:HG22	1:590:A:ILE:HD12	10	0.25	0.11	0.21
(1,310)	1:524:A:ILE:HG23	1:590:A:ILE:HD13	10	0.25	0.11	0.21
(1,310)	1:524:A:ILE:HG23	1:590:A:ILE:HD11	10	0.25	0.11	0.21
(1,310)	1:524:A:ILE:HG22	1:590:A:ILE:HD11	10	0.25	0.11	0.21
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	10	0.25	0.13	0.22
(1,722)	1:540:A:LEU:HD11	1:590:A:ILE:HD13	10	0.19	0.03	0.2
(1,722)	1:540:A:LEU:HD13	1:590:A:ILE:HD12	10	0.19	0.03	0.2
(1,722)	1:540:A:LEU:HD13	1:590:A:ILE:HD11	10	0.19	0.03	0.2
(1,722)	1:540:A:LEU:HD11	1:590:A:ILE:HD11	10	0.19	0.03	0.2
(1,722)	1:540:A:LEU:HD12	1:590:A:ILE:HD13	10	0.19	0.03	0.2
(1,722)	1:540:A:LEU:HD12	1:590:A:ILE:HD12	10	0.19	0.03	0.2
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	10	0.17	0.03	0.18
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG22	9	0.63	0.29	0.66
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG23	9	0.63	0.29	0.66
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG21	9	0.63	0.29	0.66
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	9	0.51	0.28	0.46
(3,51)	1:516:A:LYS:HB2	1:519:A:GLY:HA3	9	0.46	0.29	0.43
(3,51)	1:516:A:LYS:HB3	1:519:A:GLY:HA3	9	0.46	0.29	0.43
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB3	9	0.35	0.1	0.32
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB1	9	0.35	0.1	0.32
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB2	9	0.35	0.1	0.32
(3,743)	1:538:A:ILE:HD13	1:552:A:LEU:HD12	9	0.32	0.1	0.3
(3,743)	1:599:A:LEU:HD13	1:551:A:ILE:HG22	9	0.32	0.1	0.3
(3,743)	1:538:A:ILE:HD12	1:552:A:LEU:HD13	9	0.32	0.1	0.3
(3,743)	1:599:A:LEU:HD11	1:551:A:ILE:HG22	9	0.32	0.1	0.3
(3,743)	1:538:A:ILE:HD11	1:552:A:LEU:HD13	9	0.32	0.1	0.3
(3,743)	1:599:A:LEU:HD11	1:551:A:ILE:HG21	9	0.32	0.1	0.3
(3,743)	1:538:A:ILE:HD13	1:552:A:LEU:HD11	9	0.32	0.1	0.3
(3,743)	1:538:A:ILE:HD13	1:552:A:LEU:HD13	9	0.32	0.1	0.3
(3,743)	1:538:A:ILE:HD11	1:552:A:LEU:HD11	9	0.32	0.1	0.3
(1,294)	1:538:A:ILE:HD13	1:534:A:GLU:HB3	9	0.29	0.33	0.15
(1,294)	1:538:A:ILE:HD11	1:534:A:GLU:HB3	9	0.29	0.33	0.15

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,294)	1:538:A:ILE:HD12	1:534:A:GLU:HB3	9	0.29	0.33	0.15
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD12	9	0.26	0.09	0.29
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD11	9	0.26	0.09	0.29
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD13	9	0.26	0.09	0.29
(3,143)	1:514:A:GLN:HG2	1:562:A:GLU:HB2	9	0.26	0.13	0.22
(3,143)	1:514:A:GLN:HG2	1:562:A:GLU:HB3	9	0.26	0.13	0.22
(3,143)	1:553:A:MET:HG3	1:551:A:ILE:HG13	9	0.26	0.13	0.22
(3,143)	1:553:A:MET:HG2	1:551:A:ILE:HG13	9	0.26	0.13	0.22
(3,143)	1:514:A:GLN:HG2	1:516:A:LYS:HG3	9	0.26	0.13	0.22
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD13	9	0.22	0.08	0.21
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD11	9	0.22	0.08	0.21
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD12	9	0.22	0.08	0.21
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD12	9	0.21	0.06	0.18
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD11	9	0.21	0.06	0.18
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD13	9	0.21	0.06	0.18
(1,1405)	1:537:A:VAL:HG21	1:533:A:THR:H	9	0.18	0.07	0.17
(1,1405)	1:537:A:VAL:HG22	1:533:A:THR:H	9	0.18	0.07	0.17
(1,1405)	1:537:A:VAL:HG23	1:533:A:THR:H	9	0.18	0.07	0.17
(1,1027)	1:540:A:LEU:HD21	1:581:A:ALA:HB3	9	0.14	0.03	0.13
(1,1027)	1:540:A:LEU:HD23	1:581:A:ALA:HB3	9	0.14	0.03	0.13
(1,1027)	1:540:A:LEU:HD23	1:581:A:ALA:HB1	9	0.14	0.03	0.13
(1,1027)	1:540:A:LEU:HD21	1:581:A:ALA:HB2	9	0.14	0.03	0.13
(1,1051)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	9	0.11	0.01	0.11
(1,1051)	1:602:A:LYS:HD3	1:602:A:LYS:HE3	9	0.11	0.01	0.11
(1,1051)	1:602:A:LYS:HD2	1:602:A:LYS:HE2	9	0.11	0.01	0.11
(1,352)	1:520:A:ARG:HD2	1:520:A:ARG:HB2	8	0.66	0.05	0.66
(3,708)	1:615:A:ILE:HA	1:618:A:GLN:HB2	8	0.57	0.3	0.57
(3,708)	1:613:A:GLN:HB3	1:615:A:ILE:HA	8	0.57	0.3	0.57
(3,708)	1:613:A:GLN:HB2	1:615:A:ILE:HA	8	0.57	0.3	0.57
(3,43)	1:618:A:GLN:HG3	1:616:A:HIS:H	8	0.52	0.25	0.44
(3,43)	1:613:A:GLN:HG2	1:616:A:HIS:H	8	0.52	0.25	0.44
(3,43)	1:618:A:GLN:HG2	1:616:A:HIS:H	8	0.52	0.25	0.44
(1,695)	1:560:A:PHE:HD2	1:596:A:TYR:HE2	8	0.44	0.16	0.44
(1,695)	1:560:A:PHE:HD1	1:596:A:TYR:HE1	8	0.44	0.16	0.44
(1,695)	1:560:A:PHE:HD1	1:596:A:TYR:HE2	8	0.44	0.16	0.44
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD22	8	0.36	0.19	0.34
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD21	8	0.36	0.19	0.34
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD23	8	0.36	0.19	0.34
(1,143)	1:554:A:LYS:HE3	1:533:A:THR:HA	8	0.33	0.14	0.28
(1,143)	1:554:A:LYS:HE2	1:533:A:THR:HA	8	0.33	0.14	0.28
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG23	8	0.31	0.15	0.3
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG21	8	0.31	0.15	0.3

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG22	8	0.31	0.15	0.3
(1,270)	1:553:A:MET:HE2	1:551:A:ILE:HG22	8	0.25	0.11	0.26
(1,270)	1:553:A:MET:HE3	1:551:A:ILE:HG23	8	0.25	0.11	0.26
(1,270)	1:553:A:MET:HE1	1:551:A:ILE:HG22	8	0.25	0.11	0.26
(1,270)	1:553:A:MET:HE1	1:551:A:ILE:HG21	8	0.25	0.11	0.26
(1,270)	1:553:A:MET:HE3	1:551:A:ILE:HG21	8	0.25	0.11	0.26
(3,699)	1:579:A:LYS:HB2	1:575:A:TYR:HB3	8	0.24	0.08	0.26
(3,699)	1:564:A:ALA:HB2	1:546:A:LYS:HE2	8	0.24	0.08	0.26
(3,699)	1:564:A:ALA:HB3	1:546:A:LYS:HE2	8	0.24	0.08	0.26
(3,699)	1:564:A:ALA:HB1	1:546:A:LYS:HE2	8	0.24	0.08	0.26
(3,601)	1:532:A:CYS:HA	1:527:A:LEU:HD23	8	0.2	0.04	0.19
(3,601)	1:532:A:CYS:HA	1:527:A:LEU:HD22	8	0.2	0.04	0.19
(3,601)	1:524:A:ILE:HA	1:588:A:LEU:HD11	8	0.2	0.04	0.19
(3,601)	1:524:A:ILE:HA	1:527:A:LEU:HD23	8	0.2	0.04	0.19
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG22	8	0.19	0.06	0.17
(3,811)	1:611:A:ILE:HB	1:611:A:ILE:HG12	8	0.19	0.06	0.17
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG23	8	0.19	0.06	0.17
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG21	8	0.19	0.06	0.17
(1,1108)	1:563:A:MET:HB3	1:571:A:ALA:H	8	0.18	0.04	0.17
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG12	8	0.13	0.03	0.12
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG13	8	0.13	0.03	0.12
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG11	8	0.13	0.03	0.12
(1,1769)	1:612:A:ILE:HB	1:612:A:ILE:H	8	0.12	0.02	0.12
(1,237)	1:514:A:GLN:HB3	1:517:A:GLY:HA2	7	0.92	0.33	0.98
(1,237)	1:514:A:GLN:HB2	1:517:A:GLY:HA3	7	0.92	0.33	0.98
(1,237)	1:514:A:GLN:HB3	1:517:A:GLY:HA3	7	0.92	0.33	0.98
(1,1766)	1:611:A:ILE:HG13	1:611:A:ILE:H	7	0.88	0.13	0.86
(3,895)	1:520:A:ARG:H	1:597:A:LYS:HE3	7	0.82	0.51	0.6
(3,895)	1:520:A:ARG:H	1:516:A:LYS:HE2	7	0.82	0.51	0.6
(3,895)	1:520:A:ARG:H	1:516:A:LYS:HE3	7	0.82	0.51	0.6
(1,764)	1:558:A:GLN:HE22	1:595:A:ARG:HD3	7	0.72	0.48	0.49
(1,764)	1:558:A:GLN:HE22	1:595:A:ARG:HD2	7	0.72	0.48	0.49
(3,927)	1:574:A:GLN:HE22	1:573:A:VAL:HB	7	0.56	0.43	0.47
(3,927)	1:574:A:GLN:HE22	1:570:A:GLN:HB3	7	0.56	0.43	0.47
(3,37)	1:610:A:ALA:HB3	1:610:A:ALA:H	7	0.45	0.06	0.45
(3,37)	1:610:A:ALA:HB2	1:610:A:ALA:H	7	0.45	0.06	0.45
(3,37)	1:610:A:ALA:HB1	1:610:A:ALA:H	7	0.45	0.06	0.45
(1,297)	1:612:A:ILE:HD11	1:610:A:ALA:HB1	7	0.42	0.13	0.41
(1,297)	1:612:A:ILE:HD11	1:610:A:ALA:HB3	7	0.42	0.13	0.41
(1,297)	1:612:A:ILE:HD12	1:610:A:ALA:HB1	7	0.42	0.13	0.41
(1,297)	1:612:A:ILE:HD12	1:610:A:ALA:HB2	7	0.42	0.13	0.41
(1,79)	1:546:A:LYS:HD3	1:547:A:VAL:H	7	0.4	0.1	0.4

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB3	7	0.39	0.34	0.22
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB2	7	0.39	0.34	0.22
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB1	7	0.39	0.34	0.22
(3,83)	1:554:A:LYS:HE3	1:553:A:MET:HB2	7	0.37	0.19	0.31
(3,645)	1:583:A:ILE:HD12	1:527:A:LEU:HA	7	0.36	0.26	0.28
(3,645)	1:583:A:ILE:HD13	1:527:A:LEU:HA	7	0.36	0.26	0.28
(3,645)	1:583:A:ILE:HD11	1:527:A:LEU:HA	7	0.36	0.26	0.28
(3,645)	1:583:A:ILE:HG21	1:527:A:LEU:HA	7	0.36	0.26	0.28
(1,267)	1:583:A:ILE:HG23	1:528:A:PRO:HD3	7	0.35	0.17	0.32
(1,267)	1:583:A:ILE:HG21	1:528:A:PRO:HD3	7	0.35	0.17	0.32
(1,267)	1:583:A:ILE:HG22	1:528:A:PRO:HD3	7	0.35	0.17	0.32
(3,124)	1:587:A:LYS:HB2	1:587:A:LYS:HE2	7	0.31	0.06	0.31
(3,124)	1:587:A:LYS:HB3	1:587:A:LYS:HE2	7	0.31	0.06	0.31
(3,124)	1:602:A:LYS:HB2	1:602:A:LYS:HE2	7	0.31	0.06	0.31
(3,124)	1:602:A:LYS:HB2	1:602:A:LYS:HE3	7	0.31	0.06	0.31
(3,19)	1:594:A:THR:HB	1:596:A:TYR:HA	7	0.29	0.22	0.18
(3,693)	1:606:A:LYS:HB3	1:606:A:LYS:HE3	7	0.25	0.13	0.15
(3,693)	1:546:A:LYS:HB2	1:546:A:LYS:HE2	7	0.25	0.13	0.15
(1,525)	1:519:A:GLY:HA3	1:520:A:ARG:H	7	0.24	0.08	0.23
(3,680)	1:534:A:GLU:HB3	1:535:A:ASN:HA	7	0.19	0.07	0.16
(3,680)	1:580:A:PRO:HG3	1:578:A:GLU:HA	7	0.19	0.07	0.16
(3,966)	1:542:A:LEU:HB3	1:546:A:LYS:H	7	0.18	0.06	0.17
(1,1545)	1:564:A:ALA:HB3	1:565:A:TYR:H	7	0.17	0.02	0.16
(1,1545)	1:564:A:ALA:HB2	1:565:A:TYR:H	7	0.17	0.02	0.16
(1,306)	1:588:A:LEU:HB2	1:581:A:ALA:HB3	7	0.12	0.02	0.13
(1,306)	1:588:A:LEU:HB2	1:581:A:ALA:HB1	7	0.12	0.02	0.13
(1,247)	1:606:A:LYS:HB3	1:611:A:ILE:HD12	6	0.98	0.31	0.98
(1,247)	1:606:A:LYS:HB3	1:611:A:ILE:HD13	6	0.98	0.31	0.98
(1,247)	1:606:A:LYS:HB3	1:611:A:ILE:HD11	6	0.98	0.31	0.98
(1,278)	1:571:A:ALA:HB1	1:567:A:GLU:HB2	6	0.72	0.39	0.84
(1,278)	1:571:A:ALA:HB2	1:567:A:GLU:HB2	6	0.72	0.39	0.84
(1,1364)	1:529:A:GLU:H	1:529:A:GLU:HB2	6	0.61	0.02	0.6
(1,836)	1:594:A:THR:HA	1:594:A:THR:HG22	6	0.59	0.01	0.59
(1,836)	1:594:A:THR:HA	1:594:A:THR:HG23	6	0.59	0.01	0.59
(1,713)	1:549:A:ASN:HB2	1:599:A:LEU:HD11	6	0.5	0.07	0.49
(1,713)	1:549:A:ASN:HB2	1:599:A:LEU:HD12	6	0.5	0.07	0.49
(1,713)	1:549:A:ASN:HB2	1:599:A:LEU:HD13	6	0.5	0.07	0.49
(1,658)	1:551:A:ILE:HD13	1:596:A:TYR:HE1	6	0.35	0.25	0.26
(1,658)	1:551:A:ILE:HD11	1:596:A:TYR:HE2	6	0.35	0.25	0.26
(1,658)	1:551:A:ILE:HD12	1:596:A:TYR:HE1	6	0.35	0.25	0.26
(1,658)	1:551:A:ILE:HD11	1:596:A:TYR:HE1	6	0.35	0.25	0.26
(1,495)	1:586:A:GLU:HG2	1:586:A:GLU:H	6	0.32	0.33	0.2

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,119)	1:514:A:GLN:HG3	1:513:A:ALA:HA	6	0.3	0.08	0.3
(3,119)	1:514:A:GLN:HG2	1:513:A:ALA:HA	6	0.3	0.08	0.3
(1,498)	1:515:A:ARG:HB2	1:516:A:LYS:H	6	0.3	0.19	0.22
(1,1312)	1:518:A:ALA:HB3	1:519:A:GLY:H	6	0.27	0.11	0.27
(1,1312)	1:518:A:ALA:HB2	1:519:A:GLY:H	6	0.27	0.11	0.27
(1,1312)	1:518:A:ALA:HB1	1:519:A:GLY:H	6	0.27	0.11	0.27
(1,1029)	1:520:A:ARG:HB2	1:569:A:ALA:HB1	6	0.23	0.12	0.18
(1,1029)	1:520:A:ARG:HB2	1:569:A:ALA:HB2	6	0.23	0.12	0.18
(1,1029)	1:520:A:ARG:HB2	1:569:A:ALA:HB3	6	0.23	0.12	0.18
(3,653)	1:540:A:LEU:HB3	1:543:A:PRO:HD3	6	0.15	0.04	0.13
(3,597)	1:587:A:LYS:HA	1:582:A:ILE:HG12	6	0.14	0.05	0.13
(3,170)	1:612:A:ILE:HD12	1:619:A:ARG:HG3	5	1.3	0.63	0.93
(3,170)	1:611:A:ILE:HD12	1:606:A:LYS:HD3	5	1.3	0.63	0.93
(3,170)	1:611:A:ILE:HD11	1:606:A:LYS:HD2	5	1.3	0.63	0.93
(3,170)	1:611:A:ILE:HD12	1:606:A:LYS:HD2	5	1.3	0.63	0.93
(3,170)	1:612:A:ILE:HD12	1:619:A:ARG:HG2	5	1.3	0.63	0.93
(3,172)	1:584:A:ASN:HB3	1:583:A:ILE:HD13	5	0.72	0.25	0.88
(3,172)	1:614:A:ASP:HB2	1:615:A:ILE:HD11	5	0.72	0.25	0.88
(3,172)	1:614:A:ASP:HB2	1:615:A:ILE:HD13	5	0.72	0.25	0.88
(3,172)	1:584:A:ASN:HB3	1:583:A:ILE:HD12	5	0.72	0.25	0.88
(1,1217)	1:568:A:ALA:H	1:516:A:LYS:HB2	5	0.59	0.26	0.61
(1,1217)	1:568:A:ALA:H	1:516:A:LYS:HB3	5	0.59	0.26	0.61
(1,119)	1:620:A:GLU:HA	1:612:A:ILE:HG23	5	0.51	0.05	0.49
(1,119)	1:620:A:GLU:HA	1:612:A:ILE:HG22	5	0.51	0.05	0.49
(3,388)	1:538:A:ILE:HG22	1:550:A:TYR:HE2	5	0.48	0.21	0.49
(3,388)	1:538:A:ILE:HG21	1:550:A:TYR:HE2	5	0.48	0.21	0.49
(1,1191)	1:529:A:GLU:HG3	1:557:A:ASN:H	5	0.45	0.19	0.45
(1,1191)	1:529:A:GLU:HG2	1:557:A:ASN:H	5	0.45	0.19	0.45
(1,179)	1:610:A:ALA:HB3	1:621:A:ARG:H	5	0.37	0.12	0.35
(1,179)	1:610:A:ALA:HB1	1:621:A:ARG:H	5	0.37	0.12	0.35
(1,179)	1:610:A:ALA:HB2	1:621:A:ARG:H	5	0.37	0.12	0.35
(3,235)	1:558:A:GLN:HG2	1:553:A:MET:H	5	0.33	0.13	0.34
(1,1537)	1:563:A:MET:HB2	1:565:A:TYR:H	5	0.29	0.05	0.27
(1,1009)	1:551:A:ILE:HG12	1:601:A:LEU:HD21	5	0.26	0.09	0.32
(1,1009)	1:551:A:ILE:HG12	1:601:A:LEU:HD23	5	0.26	0.09	0.32
(1,1009)	1:551:A:ILE:HG12	1:601:A:LEU:HD22	5	0.26	0.09	0.32
(1,1686)	1:588:A:LEU:HD21	1:583:A:ILE:H	5	0.26	0.15	0.15
(1,1686)	1:588:A:LEU:HD22	1:583:A:ILE:H	5	0.26	0.15	0.15
(1,1686)	1:588:A:LEU:HD23	1:583:A:ILE:H	5	0.26	0.15	0.15
(1,1116)	1:614:A:ASP:H	1:615:A:ILE:H	5	0.25	0.08	0.25
(1,149)	1:584:A:ASN:HB3	1:528:A:PRO:HG3	5	0.21	0.06	0.21
(3,764)	1:583:A:ILE:HG13	1:540:A:LEU:HD12	5	0.18	0.07	0.14

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,764)	1:599:A:LEU:HG	1:521:A:VAL:HG21	5	0.18	0.07	0.14
(3,764)	1:599:A:LEU:HG	1:521:A:VAL:HG22	5	0.18	0.07	0.14
(1,1221)	1:569:A:ALA:H	1:522:A:VAL:HG22	5	0.16	0.05	0.14
(1,1221)	1:569:A:ALA:H	1:522:A:VAL:HG21	5	0.16	0.05	0.14
(1,1221)	1:569:A:ALA:H	1:522:A:VAL:HG23	5	0.16	0.05	0.14
(1,753)	1:583:A:ILE:H	1:586:A:GLU:HB2	4	0.94	0.17	0.98
(1,1701)	1:591:A:ARG:HB2	1:592:A:MET:H	4	0.94	0.01	0.94
(3,863)	1:563:A:MET:HG2	1:592:A:MET:HE1	4	0.89	0.07	0.89
(3,863)	1:563:A:MET:HG2	1:592:A:MET:HE3	4	0.89	0.07	0.89
(3,863)	1:563:A:MET:HG3	1:592:A:MET:HE2	4	0.89	0.07	0.89
(3,53)	1:519:A:GLY:HA2	1:568:A:ALA:HB2	4	0.77	0.2	0.86
(3,53)	1:519:A:GLY:HA2	1:568:A:ALA:HB1	4	0.77	0.2	0.86
(3,53)	1:519:A:GLY:HA2	1:568:A:ALA:HB3	4	0.77	0.2	0.86
(1,1122)	1:519:A:GLY:H	1:566:A:THR:HG22	4	0.74	0.23	0.85
(1,1122)	1:519:A:GLY:H	1:566:A:THR:HG21	4	0.74	0.23	0.85
(1,1122)	1:519:A:GLY:H	1:566:A:THR:HG23	4	0.74	0.23	0.85
(1,492)	1:572:A:MET:HG3	1:573:A:VAL:H	4	0.7	0.39	0.55
(3,556)	1:570:A:GLN:HG2	1:570:A:GLN:HA	4	0.62	0.12	0.68
(3,201)	1:595:A:ARG:HD2	1:596:A:TYR:HE2	4	0.43	0.11	0.42
(3,201)	1:560:A:PHE:HB2	1:596:A:TYR:HE1	4	0.43	0.11	0.42
(1,808)	1:588:A:LEU:HA	1:526:A:ASN:HB3	4	0.41	0.11	0.42
(1,1691)	1:525:A:CYS:H	1:589:A:LEU:HD13	4	0.41	0.16	0.44
(1,1691)	1:525:A:CYS:H	1:589:A:LEU:HD12	4	0.41	0.16	0.44
(1,1795)	1:621:A:ARG:H	1:621:A:ARG:HG2	4	0.38	0.1	0.4
(1,482)	1:529:A:GLU:HG2	1:529:A:GLU:H	4	0.34	0.22	0.22
(1,482)	1:529:A:GLU:HG3	1:529:A:GLU:H	4	0.34	0.22	0.22
(3,970)	1:548:A:THR:H	1:606:A:LYS:HE2	4	0.33	0.28	0.19
(3,970)	1:548:A:THR:H	1:606:A:LYS:HE3	4	0.33	0.28	0.19
(3,970)	1:548:A:THR:H	1:546:A:LYS:HE3	4	0.33	0.28	0.19
(3,970)	1:548:A:THR:H	1:546:A:LYS:HE2	4	0.33	0.28	0.19
(1,908)	1:593:A:SER:HB2	1:521:A:VAL:HG12	4	0.32	0.09	0.34
(1,908)	1:593:A:SER:HB2	1:521:A:VAL:HG13	4	0.32	0.09	0.34
(1,929)	1:554:A:LYS:HD3	1:554:A:LYS:HA	4	0.31	0.08	0.32
(1,1677)	1:586:A:GLU:HB2	1:586:A:GLU:H	4	0.3	0.08	0.34
(1,1543)	1:564:A:ALA:HB2	1:546:A:LYS:H	4	0.26	0.09	0.26
(1,1543)	1:564:A:ALA:HB3	1:546:A:LYS:H	4	0.26	0.09	0.26
(1,1543)	1:564:A:ALA:HB1	1:546:A:LYS:H	4	0.26	0.09	0.26
(3,452)	1:601:A:LEU:HD11	1:601:A:LEU:H	4	0.26	0.06	0.26
(3,452)	1:601:A:LEU:HD13	1:601:A:LEU:H	4	0.26	0.06	0.26
(3,200)	1:595:A:ARG:HD3	1:596:A:TYR:HE2	4	0.23	0.03	0.24
(3,200)	1:595:A:ARG:HD2	1:596:A:TYR:HE2	4	0.23	0.03	0.24
(3,200)	1:575:A:TYR:HB2	1:544:A:PHE:HZ	4	0.23	0.03	0.24

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,971)	1:570:A:GLN:HG2	1:569:A:ALA:HB3	4	0.23	0.08	0.22
(1,971)	1:570:A:GLN:HG2	1:569:A:ALA:HB2	4	0.23	0.08	0.22
(1,971)	1:570:A:GLN:HG2	1:569:A:ALA:HB1	4	0.23	0.08	0.22
(1,154)	1:614:A:ASP:HB2	1:615:A:ILE:H	4	0.22	0.07	0.23
(1,1117)	1:573:A:VAL:HG13	1:577:A:GLN:HE21	4	0.2	0.06	0.17
(1,1117)	1:573:A:VAL:HG12	1:577:A:GLN:HE21	4	0.2	0.06	0.17
(1,724)	1:547:A:VAL:H	1:538:A:ILE:HG22	4	0.15	0.03	0.14
(1,724)	1:547:A:VAL:H	1:538:A:ILE:HG23	4	0.15	0.03	0.14
(1,1118)	1:574:A:GLN:HG3	1:574:A:GLN:HE22	4	0.15	0.0	0.15
(1,1118)	1:574:A:GLN:HG2	1:574:A:GLN:HE22	4	0.15	0.0	0.15
(1,547)	1:610:A:ALA:H	1:609:A:ALA:H	4	0.14	0.03	0.14
(1,1723)	1:599:A:LEU:HA	1:600:A:GLN:H	4	0.12	0.01	0.12
(1,861)	1:562:A:GLU:HA	1:521:A:VAL:HG22	4	0.12	0.02	0.11
(1,861)	1:562:A:GLU:HA	1:521:A:VAL:HG21	4	0.12	0.02	0.11
(1,1073)	1:557:A:ASN:HD21	1:557:A:ASN:HB3	4	0.11	0.01	0.12
(1,1095)	1:560:A:PHE:HD1	1:596:A:TYR:HD1	3	1.41	0.62	1.6
(3,593)	1:528:A:PRO:HD2	1:583:A:ILE:HD13	3	1.08	0.41	1.36
(3,593)	1:528:A:PRO:HD2	1:583:A:ILE:HD12	3	1.08	0.41	1.36
(3,47)	1:618:A:GLN:HG2	1:565:A:TYR:HE2	3	0.63	0.17	0.73
(3,47)	1:618:A:GLN:HG3	1:565:A:TYR:HE2	3	0.63	0.17	0.73
(3,87)	1:537:A:VAL:HG23	1:554:A:LYS:HE3	3	0.62	0.32	0.63
(3,87)	1:552:A:LEU:HD12	1:554:A:LYS:HE3	3	0.62	0.32	0.63
(3,87)	1:552:A:LEU:HD11	1:554:A:LYS:HE3	3	0.62	0.32	0.63
(1,1306)	1:516:A:LYS:HB2	1:519:A:GLY:H	3	0.58	0.4	0.45
(3,649)	1:583:A:ILE:HG23	1:531:A:SER:HB3	3	0.55	0.1	0.61
(3,649)	1:583:A:ILE:HG22	1:531:A:SER:HB3	3	0.55	0.1	0.61
(1,1719)	1:521:A:VAL:H	1:597:A:LYS:HE2	3	0.5	0.29	0.45
(3,759)	1:586:A:GLU:HB2	1:588:A:LEU:HD22	3	0.48	0.22	0.51
(3,759)	1:600:A:GLN:HB2	1:551:A:ILE:HD11	3	0.48	0.22	0.51
(1,1127)	1:523:A:HIS:H	1:591:A:ARG:HG3	3	0.47	0.12	0.46
(1,728)	1:583:A:ILE:HG23	1:584:A:ASN:HD21	3	0.43	0.05	0.41
(1,728)	1:583:A:ILE:HG22	1:584:A:ASN:HD21	3	0.43	0.05	0.41
(1,1302)	1:513:A:ALA:HB2	1:514:A:GLN:H	3	0.39	0.16	0.31
(1,1302)	1:513:A:ALA:HB3	1:514:A:GLN:H	3	0.39	0.16	0.31
(3,135)	1:514:A:GLN:HB2	1:513:A:ALA:HA	3	0.37	0.19	0.44
(1,1296)	1:611:A:ILE:H	1:613:A:GLN:HG3	3	0.37	0.2	0.29
(1,1296)	1:611:A:ILE:H	1:613:A:GLN:HG2	3	0.37	0.2	0.29
(3,948)	1:539:A:ASN:HD22	1:583:A:ILE:HD11	3	0.35	0.22	0.31
(3,948)	1:537:A:VAL:HG11	1:539:A:ASN:HD22	3	0.35	0.22	0.31
(3,949)	1:561:A:LEU:HD21	1:539:A:ASN:HD22	3	0.35	0.11	0.39
(3,949)	1:561:A:LEU:HD22	1:539:A:ASN:HD22	3	0.35	0.11	0.39
(1,16)	1:579:A:LYS:HB3	1:575:A:TYR:HE1	3	0.31	0.15	0.26

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(3,166)	1:620:A:GLU:HA	1:612:A:ILE:HD13	3	0.3	0.08	0.34
(3,166)	1:620:A:GLU:HA	1:612:A:ILE:HD11	3	0.3	0.08	0.34
(1,1234)	1:573:A:VAL:H	1:572:A:MET:HG2	3	0.26	0.02	0.28
(3,36)	1:592:A:MET:HE2	1:566:A:THR:HA	3	0.26	0.11	0.27
(3,36)	1:592:A:MET:HE3	1:566:A:THR:HA	3	0.26	0.11	0.27
(3,36)	1:592:A:MET:HE1	1:566:A:THR:HA	3	0.26	0.11	0.27
(3,120)	1:597:A:LYS:HB3	1:593:A:SER:HB3	3	0.23	0.09	0.25
(3,737)	1:572:A:MET:HG2	1:563:A:MET:HE1	3	0.23	0.02	0.23
(3,737)	1:572:A:MET:HG2	1:563:A:MET:HE2	3	0.23	0.02	0.23
(3,18)	1:578:A:GLU:HB2	1:575:A:TYR:HE1	3	0.23	0.04	0.25
(1,1456)	1:547:A:VAL:HG12	1:548:A:THR:H	3	0.22	0.11	0.18
(1,1456)	1:547:A:VAL:HG13	1:548:A:THR:H	3	0.22	0.11	0.18
(3,451)	1:582:A:ILE:HD12	1:585:A:GLY:H	3	0.17	0.04	0.2
(3,451)	1:582:A:ILE:HD13	1:585:A:GLY:H	3	0.17	0.04	0.2
(3,805)	1:573:A:VAL:HG23	1:592:A:MET:HE1	3	0.17	0.07	0.16
(3,805)	1:573:A:VAL:HG21	1:592:A:MET:HE1	3	0.17	0.07	0.16
(3,805)	1:542:A:LEU:HG	1:542:A:LEU:HD22	3	0.17	0.07	0.16
(3,447)	1:614:A:ASP:H	1:612:A:ILE:HG23	3	0.15	0.01	0.14
(3,447)	1:613:A:GLN:H	1:612:A:ILE:HG23	3	0.15	0.01	0.14
(3,447)	1:613:A:GLN:H	1:612:A:ILE:HG22	3	0.15	0.01	0.14
(1,486)	1:562:A:GLU:HG2	1:563:A:MET:H	3	0.14	0.06	0.1
(1,659)	1:523:A:HIS:HA	1:523:A:HIS:HD2	3	0.13	0.01	0.12
(3,581)	1:548:A:THR:HB	1:548:A:THR:HG22	3	0.1	0.0	0.1
(3,581)	1:548:A:THR:HB	1:548:A:THR:HG23	3	0.1	0.0	0.1
(1,998)	1:583:A:ILE:HG12	1:583:A:ILE:HG22	2	1.04	0.01	1.04
(1,998)	1:583:A:ILE:HG12	1:583:A:ILE:HG21	2	1.04	0.01	1.04
(1,291)	1:583:A:ILE:HD13	1:528:A:PRO:HD3	2	1.02	0.04	1.02
(1,291)	1:583:A:ILE:HD12	1:528:A:PRO:HD3	2	1.02	0.04	1.02
(1,916)	1:534:A:GLU:HG2	1:534:A:GLU:HA	2	0.64	0.06	0.64
(3,631)	1:532:A:CYS:HB2	1:552:A:LEU:HD22	2	0.63	0.35	0.63
(3,631)	1:614:A:ASP:HB2	1:615:A:ILE:HD12	2	0.63	0.35	0.63
(3,910)	1:515:A:ARG:H	1:616:A:HIS:HB3	2	0.63	0.12	0.63
(1,102)	1:612:A:ILE:HA	1:614:A:ASP:HB2	2	0.6	0.49	0.6
(1,1542)	1:514:A:GLN:H	1:564:A:ALA:HB1	2	0.49	0.38	0.49
(1,1542)	1:514:A:GLN:H	1:564:A:ALA:HB2	2	0.49	0.38	0.49
(3,616)	1:587:A:LYS:HE3	1:582:A:ILE:HD12	2	0.46	0.2	0.46
(3,616)	1:532:A:CYS:HB3	1:583:A:ILE:HD13	2	0.46	0.2	0.46
(3,924)	1:602:A:LYS:H	1:601:A:LEU:HD11	2	0.41	0.18	0.41
(3,924)	1:602:A:LYS:H	1:601:A:LEU:HD12	2	0.41	0.18	0.41
(3,664)	1:587:A:LYS:HE3	1:582:A:ILE:HD12	2	0.4	0.2	0.4
(3,664)	1:532:A:CYS:HB3	1:583:A:ILE:HD13	2	0.4	0.2	0.4
(1,641)	1:595:A:ARG:HD2	1:560:A:PHE:HZ	2	0.37	0.03	0.37

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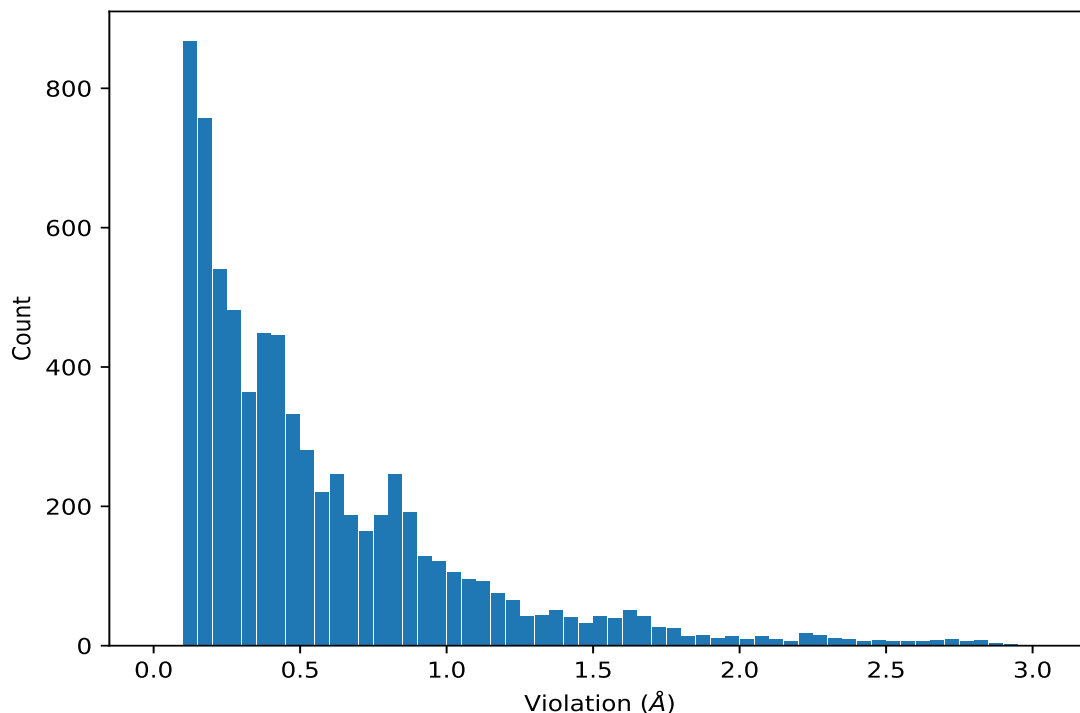
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,156)	1:557:A:ASN:HD22	1:529:A:GLU:HG2	2	0.36	0.12	0.36
(1,1110)	1:570:A:GLN:HB3	1:570:A:GLN:HE21	2	0.31	0.0	0.31
(3,517)	1:553:A:MET:HE3	1:560:A:PHE:HE1	2	0.3	0.02	0.3
(3,517)	1:558:A:GLN:HB3	1:560:A:PHE:HE1	2	0.3	0.02	0.3
(1,378)	1:549:A:ASN:HB3	1:599:A:LEU:HD12	2	0.28	0.12	0.28
(1,378)	1:549:A:ASN:HB3	1:599:A:LEU:HD13	2	0.28	0.12	0.28
(1,1521)	1:522:A:VAL:H	1:561:A:LEU:HB2	2	0.27	0.15	0.27
(1,1462)	1:549:A:ASN:HD22	1:548:A:THR:HB	2	0.26	0.1	0.26
(1,52)	1:615:A:ILE:HG21	1:615:A:ILE:H	2	0.26	0.15	0.26
(1,52)	1:615:A:ILE:HG23	1:615:A:ILE:H	2	0.26	0.15	0.26
(3,670)	1:540:A:LEU:HG	1:537:A:VAL:HA	2	0.26	0.06	0.26
(3,967)	1:546:A:LYS:H	1:567:A:GLU:HG2	2	0.25	0.06	0.25
(1,276)	1:563:A:MET:HG3	1:572:A:MET:HE1	2	0.22	0.02	0.22
(1,276)	1:563:A:MET:HG3	1:572:A:MET:HE3	2	0.22	0.02	0.22
(1,1592)	1:563:A:MET:H	1:572:A:MET:HE3	2	0.21	0.06	0.21
(1,1592)	1:563:A:MET:H	1:572:A:MET:HE2	2	0.21	0.06	0.21
(1,1704)	1:591:A:ARG:HG2	1:591:A:ARG:H	2	0.2	0.05	0.2
(3,594)	1:526:A:ASN:HB3	1:588:A:LEU:HD21	2	0.16	0.02	0.16
(3,594)	1:528:A:PRO:HD2	1:588:A:LEU:HD22	2	0.16	0.02	0.16
(1,1783)	1:618:A:GLN:HB2	1:618:A:GLN:H	2	0.16	0.04	0.16
(1,1115)	1:614:A:ASP:HB3	1:615:A:ILE:H	2	0.15	0.04	0.15
(3,285)	1:615:A:ILE:HB	1:615:A:ILE:H	2	0.14	0.01	0.14
(3,408)	1:543:A:PRO:HG2	1:544:A:PHE:HD1	2	0.14	0.01	0.14
(3,408)	1:571:A:ALA:HB1	1:544:A:PHE:HD2	2	0.14	0.01	0.14
(1,878)	1:560:A:PHE:HB2	1:521:A:VAL:HG13	2	0.12	0.01	0.12
(1,395)	1:573:A:VAL:HB	1:573:A:VAL:HG12	2	0.12	0.01	0.12
(1,1767)	1:611:A:ILE:HG23	1:611:A:ILE:H	2	0.12	0.0	0.12
(1,1767)	1:611:A:ILE:HG21	1:611:A:ILE:H	2	0.12	0.0	0.12
(1,1514)	1:551:A:ILE:H	1:560:A:PHE:HB3	2	0.12	0.02	0.12
(1,1295)	1:611:A:ILE:H	1:608:A:VAL:HB	2	0.12	0.0	0.12
(3,747)	1:538:A:ILE:HG13	1:538:A:ILE:HD11	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 [i](#)

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	15	3.03
(3,192)	1:515:A:ARG:HG3	1:566:A:THR:HG22	16	2.94
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	24	2.9
(1,1205)	1:552:A:LEU:HD11	1:560:A:PHE:H	2	2.89
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	11	2.86
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	5	2.85
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	21	2.84
(3,10)	1:563:A:MET:HE3	1:540:A:LEU:HA	5	2.83
(3,188)	1:522:A:VAL:HG23	1:591:A:ARG:HG3	22	2.82
(1,1205)	1:552:A:LEU:HD11	1:560:A:PHE:H	25	2.82
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	6	2.81
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	24	2.81
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD12	8	2.8
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	24	2.8
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	17	2.79
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD12	18	2.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	25	2.79
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	20	2.78
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD12	1	2.77
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	9	2.77
(3,188)	1:547:A:VAL:HG13	1:546:A:LYS:HG2	23	2.75
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	2	2.74
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	10	2.74
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	17	2.74
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD12	16	2.73
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	21	2.72
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	19	2.71
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	3	2.7
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	14	2.7
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	22	2.7
(1,1205)	1:552:A:LEU:HD11	1:560:A:PHE:H	23	2.69
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	12	2.68
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	21	2.68
(3,188)	1:547:A:VAL:HG13	1:546:A:LYS:HG2	24	2.67
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	7	2.67
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD11	23	2.67
(1,1205)	1:552:A:LEU:HD12	1:560:A:PHE:H	11	2.66
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	9	2.66
(1,1205)	1:552:A:LEU:HD11	1:560:A:PHE:H	22	2.64
(3,192)	1:515:A:ARG:HG3	1:566:A:THR:HG21	13	2.61
(3,188)	1:522:A:VAL:HG22	1:591:A:ARG:HG3	9	2.61
(3,188)	1:547:A:VAL:HG11	1:546:A:LYS:HG2	20	2.61
(1,1205)	1:552:A:LEU:HD12	1:560:A:PHE:H	12	2.61
(3,10)	1:563:A:MET:HE2	1:548:A:THR:HA	6	2.6
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	4	2.59
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD12	9	2.59
(3,188)	1:547:A:VAL:HG11	1:542:A:LEU:HB2	18	2.57
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD13	15	2.57
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	3	2.55
(1,1205)	1:552:A:LEU:HD11	1:560:A:PHE:H	6	2.55
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD12	25	2.55
(3,188)	1:547:A:VAL:HG13	1:546:A:LYS:HG2	10	2.54
(3,173)	1:543:A:PRO:HB3	1:590:A:ILE:HD12	13	2.53
(3,188)	1:522:A:VAL:HG23	1:591:A:ARG:HG3	7	2.52
(1,1205)	1:552:A:LEU:HD12	1:560:A:PHE:H	1	2.52
(3,188)	1:547:A:VAL:HG11	1:542:A:LEU:HB2	19	2.5
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	18	2.5
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD13	11	2.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,188)	1:522:A:VAL:HG21	1:591:A:ARG:HG3	11	2.49
(3,170)	1:611:A:ILE:HD12	1:606:A:LYS:HD3	14	2.49
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	16	2.48
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	3	2.48
(3,188)	1:522:A:VAL:HG22	1:591:A:ARG:HG3	2	2.47
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD12	2	2.47
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	24	2.47
(3,188)	1:547:A:VAL:HG13	1:542:A:LEU:HB2	21	2.46
(3,188)	1:522:A:VAL:HG23	1:591:A:ARG:HG3	15	2.44
(3,10)	1:563:A:MET:HE3	1:548:A:THR:HA	21	2.43
(1,1205)	1:552:A:LEU:HD12	1:560:A:PHE:H	4	2.43
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	7	2.43
(3,176)	1:528:A:PRO:HB3	1:583:A:ILE:HG22	18	2.42
(3,188)	1:547:A:VAL:HG13	1:542:A:LEU:HB2	3	2.41
(3,10)	1:553:A:MET:HE2	1:601:A:LEU:HA	8	2.41
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	5	2.39
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	18	2.39
(1,173)	1:514:A:GLN:HG3	1:600:A:GLN:HE21	14	2.39
(3,10)	1:563:A:MET:HE3	1:540:A:LEU:HA	16	2.37
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	19	2.37
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	16	2.37
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD12	22	2.37
(3,10)	1:563:A:MET:HE1	1:540:A:LEU:HA	18	2.36
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	15	2.35
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	17	2.35
(3,10)	1:563:A:MET:HE3	1:548:A:THR:HA	11	2.34
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	7	2.34
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	16	2.33
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD13	1	2.32
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD12	6	2.32
(1,319)	1:573:A:VAL:HG22	1:545:A:GLY:HA2	10	2.32
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	10	2.31
(3,192)	1:515:A:ARG:HG3	1:566:A:THR:HG22	8	2.31
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD13	4	2.31
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	19	2.3
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG23	8	2.3
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	6	2.29
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	25	2.29
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD12	23	2.29
(1,319)	1:573:A:VAL:HG23	1:545:A:GLY:HA2	6	2.27
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	6	2.26
(3,10)	1:563:A:MET:HE1	1:548:A:THR:HA	1	2.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:573:A:VAL:HG23	1:545:A:GLY:HA2	17	2.26
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG23	7	2.25
(3,10)	1:563:A:MET:HE2	1:548:A:THR:HA	7	2.25
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	12	2.25
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	19	2.25
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	8	2.25
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	11	2.25
(1,319)	1:573:A:VAL:HG23	1:545:A:GLY:HA2	21	2.25
(1,319)	1:573:A:VAL:HG22	1:545:A:GLY:HA2	25	2.25
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG22	10	2.24
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG23	1	2.24
(3,188)	1:522:A:VAL:HG21	1:591:A:ARG:HG3	6	2.24
(3,10)	1:553:A:MET:HE3	1:601:A:LEU:HA	22	2.24
(1,1205)	1:552:A:LEU:HD11	1:560:A:PHE:H	14	2.24
(1,319)	1:573:A:VAL:HG23	1:545:A:GLY:HA2	18	2.24
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	20	2.24
(1,319)	1:573:A:VAL:HG22	1:545:A:GLY:HA2	24	2.24
(3,176)	1:528:A:PRO:HB3	1:583:A:ILE:HG21	23	2.23
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	2	2.23
(1,1205)	1:552:A:LEU:HD11	1:560:A:PHE:H	13	2.22
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	15	2.22
(1,319)	1:573:A:VAL:HG23	1:545:A:GLY:HA2	1	2.22
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	5	2.21
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	18	2.21
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	10	2.21
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	16	2.21
(1,1205)	1:552:A:LEU:HD13	1:560:A:PHE:H	8	2.2
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG23	24	2.18
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	8	2.18
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	22	2.18
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD13	11	2.16
(1,1205)	1:552:A:LEU:HD11	1:560:A:PHE:H	20	2.16
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	10	2.16
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD12	13	2.15
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD13	12	2.14
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	1	2.13
(3,176)	1:528:A:PRO:HB3	1:583:A:ILE:HG23	12	2.13
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD12	20	2.13
(1,319)	1:573:A:VAL:HG22	1:545:A:GLY:HA2	5	2.13
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG21	18	2.11
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD11	5	2.1
(1,870)	1:559:A:ALA:HA	1:552:A:LEU:HD12	14	2.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	9	2.1
(3,10)	1:563:A:MET:HE2	1:540:A:LEU:HA	4	2.09
(1,319)	1:573:A:VAL:HG22	1:545:A:GLY:HA2	13	2.09
(1,319)	1:573:A:VAL:HG23	1:545:A:GLY:HA2	15	2.09
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	25	2.08
(3,10)	1:563:A:MET:HE2	1:540:A:LEU:HA	3	2.06
(1,1095)	1:560:A:PHE:HD1	1:596:A:TYR:HD1	8	2.06
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	16	2.06
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	7	2.06
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG21	2	2.05
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG22	17	2.05
(3,10)	1:563:A:MET:HE2	1:540:A:LEU:HA	15	2.05
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	11	2.05
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	23	2.05
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	23	2.04
(3,188)	1:522:A:VAL:HG22	1:591:A:ARG:HG3	8	2.04
(3,10)	1:563:A:MET:HE1	1:540:A:LEU:HA	17	2.04
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	6	2.03
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	20	2.02
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	19	2.02
(3,10)	1:563:A:MET:HE2	1:540:A:LEU:HA	19	2.02
(1,319)	1:573:A:VAL:HG21	1:545:A:GLY:HA2	14	2.02
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG21	22	2.01
(3,10)	1:553:A:MET:HE3	1:601:A:LEU:HA	24	2.01
(3,192)	1:515:A:ARG:HG3	1:599:A:LEU:HB3	21	1.99
(3,10)	1:553:A:MET:HE3	1:601:A:LEU:HA	9	1.99
(3,10)	1:553:A:MET:HE2	1:601:A:LEU:HA	20	1.99
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG22	19	1.98
(3,10)	1:563:A:MET:HE3	1:540:A:LEU:HA	10	1.98
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	5	1.97
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	18	1.97
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG23	6	1.97
(1,319)	1:573:A:VAL:HG22	1:545:A:GLY:HA2	12	1.97
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG23	5	1.96
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD11	23	1.96
(3,180)	1:568:A:ALA:HB1	1:516:A:LYS:HB2	6	1.96
(3,188)	1:522:A:VAL:HG23	1:591:A:ARG:HG3	12	1.95
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	17	1.95
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD13	14	1.94
(3,192)	1:515:A:ARG:HG3	1:566:A:THR:HG22	11	1.94
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	5	1.94
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	21	1.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,585)	1:617:A:SER:HB3	1:615:A:ILE:HG21	12	1.93
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	18	1.93
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	24	1.93
(1,319)	1:573:A:VAL:HG23	1:545:A:GLY:HA2	4	1.93
(1,319)	1:573:A:VAL:HG22	1:545:A:GLY:HA2	19	1.93
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG23	9	1.91
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	2	1.91
(3,965)	1:545:A:GLY:H	1:575:A:TYR:HA	5	1.89
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD12	16	1.89
(3,180)	1:568:A:ALA:HB1	1:516:A:LYS:HB2	21	1.89
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	16	1.89
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	8	1.89
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD11	25	1.88
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	1	1.88
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	21	1.88
(3,188)	1:522:A:VAL:HG22	1:591:A:ARG:HG3	5	1.88
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	6	1.87
(3,10)	1:553:A:MET:HE1	1:601:A:LEU:HA	2	1.86
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	16	1.85
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	25	1.85
(3,10)	1:553:A:MET:HE2	1:601:A:LEU:HA	25	1.85
(1,319)	1:573:A:VAL:HG22	1:545:A:GLY:HA2	3	1.85
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	11	1.83
(3,138)	1:534:A:GLU:HB3	1:553:A:MET:HA	25	1.83
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	2	1.83
(3,1)	1:599:A:LEU:HD21	1:602:A:LYS:HB2	25	1.83
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG21	21	1.82
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	14	1.82
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	24	1.82
(3,180)	1:568:A:ALA:HB3	1:562:A:GLU:HG2	23	1.82
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	16	1.82
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	21	1.81
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	22	1.81
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	23	1.81
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG21	12	1.8
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD13	20	1.8
(3,895)	1:520:A:ARG:H	1:597:A:LYS:HE3	20	1.79
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	4	1.79
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	7	1.79
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	12	1.79
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	18	1.79
(1,328)	1:547:A:VAL:HG13	1:550:A:TYR:HB2	3	1.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	16	1.78
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD13	1	1.78
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	10	1.78
(3,1)	1:599:A:LEU:HD21	1:552:A:LEU:HG	9	1.78
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG23	10	1.77
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	13	1.77
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	2	1.77
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD23	3	1.77
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	17	1.76
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	14	1.76
(3,180)	1:568:A:ALA:HB1	1:562:A:GLU:HG2	12	1.76
(3,180)	1:568:A:ALA:HB2	1:562:A:GLU:HG2	14	1.76
(3,21)	1:563:A:MET:HE2	1:537:A:VAL:HA	15	1.76
(3,10)	1:563:A:MET:HE1	1:540:A:LEU:HA	14	1.76
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	15	1.75
(3,180)	1:568:A:ALA:HB3	1:516:A:LYS:HB2	7	1.75
(3,180)	1:568:A:ALA:HB3	1:516:A:LYS:HB2	17	1.75
(3,180)	1:568:A:ALA:HB1	1:516:A:LYS:HB2	24	1.75
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG13	5	1.75
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	6	1.74
(3,913)	1:556:A:THR:H	1:528:A:PRO:HD2	8	1.73
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG21	22	1.73
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	7	1.73
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	14	1.73
(3,180)	1:568:A:ALA:HB1	1:562:A:GLU:HG2	2	1.73
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	16	1.73
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	20	1.72
(3,76)	1:564:A:ALA:HA	1:542:A:LEU:HD23	16	1.72
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	11	1.71
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	2	1.71
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	10	1.71
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB2	8	1.71
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD23	6	1.71
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	7	1.71
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	8	1.7
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD13	8	1.7
(3,524)	1:547:A:VAL:HA	1:549:A:ASN:HB3	15	1.7
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	23	1.7
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	24	1.7
(3,180)	1:568:A:ALA:HB3	1:516:A:LYS:HB2	20	1.7
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD22	22	1.7
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG12	24	1.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,21)	1:563:A:MET:HE1	1:537:A:VAL:HA	25	1.7
(1,764)	1:558:A:GLN:HE22	1:595:A:ARG:HD2	6	1.7
(1,328)	1:547:A:VAL:HG13	1:550:A:TYR:HB2	21	1.7
(3,524)	1:547:A:VAL:HA	1:549:A:ASN:HB3	5	1.69
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	16	1.69
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG23	9	1.68
(3,524)	1:542:A:LEU:HA	1:544:A:PHE:HB3	9	1.68
(3,180)	1:568:A:ALA:HB3	1:516:A:LYS:HB2	4	1.68
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD12	23	1.68
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD13	1	1.67
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	20	1.67
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD12	6	1.67
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD13	11	1.67
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	24	1.67
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB2	1	1.66
(3,180)	1:568:A:ALA:HB3	1:516:A:LYS:HB2	16	1.66
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	21	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD12	2	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	3	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD13	4	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	5	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	7	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	8	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	9	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD13	12	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD12	14	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	15	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	16	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	18	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	19	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	21	1.66
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD12	22	1.66
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	16	1.65
(3,809)	1:563:A:MET:HE1	1:573:A:VAL:HG21	16	1.65
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG22	21	1.65
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG23	4	1.65
(3,524)	1:547:A:VAL:HA	1:549:A:ASN:HB3	20	1.65
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	2	1.65
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	17	1.65
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	23	1.65
(3,10)	1:563:A:MET:HE3	1:540:A:LEU:HA	23	1.65
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD13	1	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	10	1.65
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD11	17	1.65
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD12	25	1.65
(3,893)	1:537:A:VAL:HG13	1:527:A:LEU:H	16	1.64
(3,524)	1:547:A:VAL:HA	1:549:A:ASN:HB3	22	1.64
(3,431)	1:524:A:ILE:HD11	1:523:A:HIS:HD2	18	1.64
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	25	1.64
(3,180)	1:568:A:ALA:HB3	1:516:A:LYS:HB2	19	1.64
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	8	1.64
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	19	1.64
(3,10)	1:563:A:MET:HE3	1:540:A:LEU:HA	13	1.64
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD12	13	1.64
(1,382)	1:552:A:LEU:HA	1:552:A:LEU:HD12	20	1.64
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	22	1.63
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	21	1.63
(3,893)	1:537:A:VAL:HG13	1:527:A:LEU:H	14	1.63
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG22	12	1.63
(3,431)	1:524:A:ILE:HD12	1:523:A:HIS:HD2	22	1.63
(3,180)	1:568:A:ALA:HB3	1:516:A:LYS:HB2	13	1.63
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	1	1.63
(3,976)	1:550:A:TYR:H	1:552:A:LEU:HD12	16	1.62
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG22	22	1.62
(3,524)	1:547:A:VAL:HA	1:549:A:ASN:HB3	3	1.62
(3,524)	1:547:A:VAL:HA	1:549:A:ASN:HB3	8	1.62
(3,431)	1:524:A:ILE:HD12	1:523:A:HIS:HD2	20	1.62
(3,21)	1:563:A:MET:HE3	1:537:A:VAL:HA	10	1.62
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	11	1.62
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	19	1.62
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG21	19	1.61
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	7	1.61
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	17	1.61
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG23	25	1.61
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG22	13	1.61
(3,431)	1:524:A:ILE:HD11	1:523:A:HIS:HD2	13	1.61
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD21	1	1.61
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD23	15	1.61
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG13	17	1.61
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	3	1.61
(1,328)	1:547:A:VAL:HG12	1:550:A:TYR:HB2	16	1.61
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	13	1.6
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	15	1.6
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG21	17	1.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	19	1.6
(3,913)	1:556:A:THR:H	1:528:A:PRO:HD2	17	1.6
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG22	14	1.6
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG22	18	1.6
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG22	23	1.6
(3,620)	1:525:A:CYS:HB3	1:589:A:LEU:HG	19	1.6
(3,431)	1:524:A:ILE:HD12	1:523:A:HIS:HD2	6	1.6
(3,431)	1:524:A:ILE:HD11	1:523:A:HIS:HD2	14	1.6
(3,180)	1:568:A:ALA:HB1	1:516:A:LYS:HB2	15	1.6
(3,169)	1:583:A:ILE:HD11	1:586:A:GLU:HB2	22	1.6
(1,1095)	1:560:A:PHE:HD1	1:596:A:TYR:HD1	11	1.6
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	8	1.6
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG21	11	1.59
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	14	1.59
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	21	1.59
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	3	1.59
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	7	1.59
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	11	1.59
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG23	22	1.59
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD21	7	1.59
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	1	1.59
(3,431)	1:524:A:ILE:HD11	1:523:A:HIS:HD2	21	1.59
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	2	1.59
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	22	1.59
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	12	1.58
(3,809)	1:563:A:MET:HE2	1:573:A:VAL:HG21	20	1.58
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	4	1.58
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	15	1.58
(3,431)	1:524:A:ILE:HD11	1:523:A:HIS:HD2	23	1.58
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB2	5	1.58
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	1	1.58
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	13	1.58
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	18	1.57
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	24	1.57
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	1	1.57
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	23	1.57
(3,21)	1:563:A:MET:HE2	1:537:A:VAL:HA	4	1.57
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG22	10	1.56
(3,809)	1:522:A:VAL:HB	1:573:A:VAL:HG23	21	1.56
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG23	3	1.56
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	6	1.56
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	16	1.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG11	8	1.56
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	22	1.56
(3,976)	1:550:A:TYR:H	1:552:A:LEU:HD12	3	1.55
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	20	1.55
(3,926)	1:577:A:GLN:HB3	1:574:A:GLN:HE22	23	1.55
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG22	19	1.55
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD12	17	1.55
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG12	7	1.55
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD22	25	1.55
(1,247)	1:606:A:LYS:HB3	1:611:A:ILE:HD13	14	1.55
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	4	1.54
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG22	24	1.54
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	3	1.54
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	21	1.54
(3,809)	1:563:A:MET:HE1	1:561:A:LEU:HD12	1	1.54
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD23	18	1.54
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	16	1.54
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	19	1.54
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	7	1.53
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	8	1.53
(3,809)	1:522:A:VAL:HB	1:573:A:VAL:HG21	18	1.53
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG23	15	1.53
(3,431)	1:524:A:ILE:HD11	1:523:A:HIS:HD2	19	1.53
(3,192)	1:515:A:ARG:HG3	1:566:A:THR:HG23	23	1.53
(3,1)	1:599:A:LEU:HD21	1:552:A:LEU:HG	3	1.53
(3,1)	1:599:A:LEU:HD22	1:552:A:LEU:HG	7	1.53
(1,328)	1:547:A:VAL:HG12	1:550:A:TYR:HB2	1	1.53
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG22	25	1.52
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	9	1.52
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	4	1.52
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG23	7	1.52
(3,587)	1:543:A:PRO:HD3	1:590:A:ILE:HG22	15	1.52
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	12	1.52
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG11	19	1.52
(3,21)	1:563:A:MET:HE1	1:537:A:VAL:HA	24	1.52
(3,10)	1:553:A:MET:HE3	1:601:A:LEU:HA	12	1.52
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	21	1.52
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	7	1.52
(3,809)	1:563:A:MET:HE2	1:561:A:LEU:HD12	6	1.51
(3,809)	1:563:A:MET:HE1	1:561:A:LEU:HD12	24	1.51
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG23	13	1.51
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	17	1.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG21	1	1.5
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	2	1.5
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG21	5	1.5
(3,809)	1:563:A:MET:HE2	1:561:A:LEU:HD11	7	1.5
(3,809)	1:522:A:VAL:HB	1:573:A:VAL:HG23	13	1.5
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	1	1.5
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	12	1.5
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	20	1.5
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG12	21	1.5
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	6	1.5
(1,328)	1:547:A:VAL:HG13	1:550:A:TYR:HB2	8	1.5
(3,809)	1:563:A:MET:HE2	1:573:A:VAL:HG21	2	1.49
(3,809)	1:563:A:MET:HE3	1:561:A:LEU:HD12	5	1.49
(3,585)	1:617:A:SER:HB2	1:615:A:ILE:HG21	2	1.49
(3,1)	1:599:A:LEU:HD22	1:552:A:LEU:HG	12	1.49
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	1	1.48
(3,976)	1:550:A:TYR:H	1:552:A:LEU:HD12	8	1.48
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	1	1.48
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	5	1.48
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	17	1.48
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	25	1.48
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	18	1.48
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG12	14	1.48
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	17	1.48
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	18	1.48
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	12	1.47
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	2	1.47
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	8	1.47
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG13	7	1.47
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	9	1.47
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	11	1.46
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	8	1.46
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB2	18	1.46
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	9	1.45
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	1	1.45
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	10	1.45
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	20	1.45
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	5	1.45
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	10	1.45
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG22	19	1.45
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	2	1.45
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	5	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,328)	1:547:A:VAL:HG12	1:550:A:TYR:HB2	13	1.45
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	17	1.45
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG22	2	1.44
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG21	9	1.44
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG12	21	1.44
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG12	13	1.44
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG21	23	1.43
(3,927)	1:574:A:GLN:HE22	1:570:A:GLN:HB3	16	1.43
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	5	1.43
(3,809)	1:563:A:MET:HE3	1:561:A:LEU:HD11	8	1.43
(3,620)	1:525:A:CYS:HB3	1:589:A:LEU:HG	17	1.43
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	1	1.43
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG23	21	1.43
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	7	1.43
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	17	1.43
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	18	1.43
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD22	13	1.43
(3,913)	1:556:A:THR:H	1:528:A:PRO:HD2	21	1.42
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB2	4	1.42
(3,140)	1:592:A:MET:HE2	1:563:A:MET:HB2	10	1.42
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG13	17	1.42
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG13	23	1.42
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	15	1.42
(1,328)	1:547:A:VAL:HG13	1:550:A:TYR:HB2	2	1.42
(1,173)	1:514:A:GLN:HG3	1:600:A:GLN:HE21	2	1.42
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	5	1.41
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	6	1.41
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	5	1.41
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD11	20	1.41
(3,809)	1:563:A:MET:HE3	1:573:A:VAL:HG23	15	1.41
(3,170)	1:612:A:ILE:HD12	1:619:A:ARG:HG2	23	1.41
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	17	1.41
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	25	1.41
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG11	18	1.41
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	25	1.41
(3,976)	1:550:A:TYR:H	1:551:A:ILE:HG23	6	1.4
(3,893)	1:537:A:VAL:HG13	1:527:A:LEU:H	22	1.4
(3,809)	1:563:A:MET:HE2	1:561:A:LEU:HD12	4	1.4
(3,809)	1:563:A:MET:HE2	1:561:A:LEU:HD11	19	1.4
(3,180)	1:568:A:ALA:HB1	1:516:A:LYS:HB2	3	1.4
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG12	4	1.4
(3,76)	1:564:A:ALA:HA	1:542:A:LEU:HD21	23	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	5	1.4
(3,956)	1:524:A:ILE:HD12	1:542:A:LEU:H	14	1.39
(3,809)	1:563:A:MET:HE2	1:561:A:LEU:HD11	3	1.39
(3,809)	1:563:A:MET:HE3	1:561:A:LEU:HD11	11	1.39
(3,593)	1:528:A:PRO:HD2	1:583:A:ILE:HD13	16	1.39
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD13	4	1.39
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	10	1.39
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	13	1.39
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG13	4	1.39
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG11	13	1.39
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	13	1.39
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	22	1.39
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	11	1.38
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG3	14	1.38
(3,809)	1:563:A:MET:HE3	1:573:A:VAL:HG21	9	1.38
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	5	1.38
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	2	1.38
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	4	1.38
(3,973)	1:512:A:MET:HB2	1:549:A:ASN:H	22	1.37
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	4	1.37
(3,806)	1:522:A:VAL:HB	1:590:A:ILE:HG22	17	1.37
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	24	1.37
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG11	1	1.37
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG13	9	1.37
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG22	18	1.37
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG13	11	1.37
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	25	1.37
(3,21)	1:534:A:GLU:HB3	1:537:A:VAL:HA	12	1.37
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	24	1.37
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	11	1.37
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	16	1.37
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	22	1.37
(1,237)	1:514:A:GLN:HB2	1:517:A:GLY:HA3	6	1.37
(3,906)	1:553:A:MET:H	1:534:A:GLU:HG3	10	1.36
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG3	16	1.36
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB1	10	1.36
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	11	1.36
(3,593)	1:528:A:PRO:HD2	1:583:A:ILE:HD12	22	1.36
(3,431)	1:524:A:ILE:HD12	1:523:A:HIS:HD2	11	1.36
(3,169)	1:583:A:ILE:HD13	1:537:A:VAL:HB	2	1.36
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG11	12	1.36
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG11	14	1.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	24	1.36
(1,492)	1:572:A:MET:HG3	1:573:A:VAL:H	23	1.36
(1,328)	1:547:A:VAL:HG13	1:550:A:TYR:HB2	6	1.36
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	8	1.35
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	13	1.35
(3,809)	1:563:A:MET:HE3	1:561:A:LEU:HD13	10	1.35
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB2	9	1.35
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG13	24	1.35
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	2	1.35
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	15	1.35
(3,1001)	1:567:A:GLU:H	1:592:A:MET:HE1	14	1.34
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	18	1.34
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	24	1.34
(3,893)	1:537:A:VAL:HG12	1:527:A:LEU:H	13	1.34
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG22	10	1.34
(3,176)	1:528:A:PRO:HB3	1:583:A:ILE:HG23	11	1.34
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG21	25	1.34
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	13	1.34
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	7	1.34
(3,969)	1:606:A:LYS:HG3	1:547:A:VAL:H	3	1.33
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	15	1.33
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	17	1.33
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	25	1.33
(3,169)	1:583:A:ILE:HD11	1:586:A:GLU:HB2	4	1.33
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	2	1.33
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	21	1.33
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	22	1.32
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	24	1.32
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	21	1.32
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	11	1.32
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG13	20	1.32
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG21	20	1.32
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	25	1.32
(3,21)	1:563:A:MET:HE1	1:537:A:VAL:HA	14	1.32
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	2	1.32
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	7	1.32
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	12	1.31
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD22	10	1.31
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	25	1.31
(3,21)	1:563:A:MET:HE1	1:537:A:VAL:HA	17	1.31
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	9	1.31
(1,328)	1:547:A:VAL:HG12	1:550:A:TYR:HB2	20	1.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	23	1.31
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	20	1.3
(3,929)	1:514:A:GLN:H	1:606:A:LYS:HE3	23	1.3
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	24	1.3
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG13	2	1.3
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG23	9	1.3
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD1	22	1.3
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	5	1.3
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	15	1.3
(3,1)	1:599:A:LEU:HD21	1:552:A:LEU:HG	23	1.3
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	5	1.3
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	9	1.3
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	8	1.29
(3,913)	1:556:A:THR:H	1:528:A:PRO:HD2	3	1.29
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	11	1.29
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	22	1.29
(1,237)	1:514:A:GLN:HB3	1:517:A:GLY:HA3	20	1.29
(1,189)	1:548:A:THR:HG21	1:566:A:THR:H	4	1.29
(1,189)	1:548:A:THR:HG21	1:566:A:THR:H	20	1.29
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	25	1.29
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	1	1.28
(3,926)	1:577:A:GLN:HB3	1:574:A:GLN:HE22	8	1.28
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	10	1.28
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	20	1.28
(3,169)	1:583:A:ILE:HD11	1:537:A:VAL:HB	10	1.28
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG11	12	1.28
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD23	5	1.28
(1,328)	1:547:A:VAL:HG12	1:550:A:TYR:HB2	14	1.28
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	12	1.28
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG11	16	1.27
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB3	7	1.27
(3,192)	1:515:A:ARG:HG2	1:566:A:THR:HG22	3	1.27
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG12	2	1.27
(3,1)	1:599:A:LEU:HD21	1:552:A:LEU:HG	1	1.27
(1,328)	1:547:A:VAL:HG13	1:550:A:TYR:HB2	22	1.27
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG11	12	1.26
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	14	1.26
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	15	1.26
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	17	1.26
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	9	1.26
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD21	13	1.26
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	12	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,188)	1:547:A:VAL:HG13	1:546:A:LYS:HG2	4	1.26
(3,180)	1:568:A:ALA:HB1	1:516:A:LYS:HB2	25	1.26
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	8	1.26
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	19	1.26
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	9	1.26
(3,620)	1:525:A:CYS:HB3	1:589:A:LEU:HG	11	1.25
(3,160)	1:522:A:VAL:HB	1:524:A:ILE:HD11	8	1.25
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	21	1.25
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	5	1.25
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	13	1.25
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	19	1.25
(1,328)	1:547:A:VAL:HG12	1:550:A:TYR:HB2	12	1.25
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	9	1.25
(3,809)	1:563:A:MET:HE2	1:573:A:VAL:HG22	25	1.24
(3,140)	1:592:A:MET:HE2	1:563:A:MET:HB2	4	1.24
(3,140)	1:592:A:MET:HE2	1:563:A:MET:HB2	23	1.24
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG23	11	1.24
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	15	1.24
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	8	1.24
(1,614)	1:552:A:LEU:HD22	1:550:A:TYR:HE1	4	1.24
(3,929)	1:514:A:GLN:H	1:606:A:LYS:HE2	1	1.23
(3,895)	1:520:A:ARG:H	1:597:A:LYS:HE3	16	1.23
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD12	3	1.23
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD12	21	1.23
(3,169)	1:583:A:ILE:HD13	1:586:A:GLU:HB2	9	1.23
(3,169)	1:583:A:ILE:HD13	1:537:A:VAL:HB	15	1.23
(3,169)	1:583:A:ILE:HD12	1:586:A:GLU:HB2	24	1.23
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	8	1.23
(3,140)	1:592:A:MET:HE1	1:563:A:MET:HB2	20	1.23
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	3	1.23
(3,1)	1:599:A:LEU:HD21	1:552:A:LEU:HG	24	1.23
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG22	2	1.23
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	15	1.23
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	1	1.23
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	6	1.23
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	18	1.23
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB3	6	1.22
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD23	19	1.22
(3,187)	1:603:A:LYS:HG2	1:601:A:LEU:HD21	17	1.22
(3,140)	1:592:A:MET:HE1	1:563:A:MET:HB2	13	1.22
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	17	1.22
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	25	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,328)	1:547:A:VAL:HG12	1:550:A:TYR:HB2	5	1.22
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	15	1.22
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	22	1.22
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	23	1.21
(3,969)	1:606:A:LYS:HG3	1:547:A:VAL:H	17	1.21
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	2	1.21
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	20	1.21
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	24	1.21
(3,76)	1:569:A:ALA:HA	1:542:A:LEU:HD23	9	1.21
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG23	6	1.21
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	19	1.21
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG23	22	1.21
(3,45)	1:600:A:GLN:HG2	1:518:A:ALA:H	12	1.21
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	15	1.21
(3,1)	1:599:A:LEU:HD22	1:552:A:LEU:HG	8	1.21
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	18	1.21
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	19	1.21
(1,392)	1:518:A:ALA:HB3	1:570:A:GLN:HE22	21	1.21
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	3	1.21
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	5	1.21
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	24	1.21
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	18	1.21
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	25	1.2
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	19	1.2
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	6	1.2
(3,585)	1:531:A:SER:HB3	1:583:A:ILE:HD12	25	1.2
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	21	1.2
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	1	1.2
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG23	10	1.2
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG3	16	1.2
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD23	20	1.2
(1,614)	1:552:A:LEU:HD23	1:550:A:TYR:HE1	18	1.2
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	10	1.2
(1,294)	1:538:A:ILE:HD11	1:534:A:GLU:HB3	25	1.2
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	8	1.2
(1,189)	1:548:A:THR:HG21	1:566:A:THR:H	14	1.2
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	17	1.2
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB1	23	1.19
(3,192)	1:515:A:ARG:HG3	1:566:A:THR:HG23	4	1.19
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	9	1.19
(3,140)	1:592:A:MET:HE2	1:563:A:MET:HB2	15	1.19
(3,140)	1:592:A:MET:HE2	1:563:A:MET:HB2	18	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,140)	1:592:A:MET:HE2	1:563:A:MET:HB2	19	1.19
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG21	4	1.19
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	6	1.19
(3,51)	1:516:A:LYS:HB2	1:519:A:GLY:HA3	1	1.19
(3,1)	1:599:A:LEU:HD21	1:552:A:LEU:HG	14	1.19
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	20	1.19
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	8	1.19
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	3	1.19
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	8	1.19
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	6	1.19
(1,189)	1:548:A:THR:HG21	1:566:A:THR:H	16	1.19
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	25	1.18
(3,809)	1:563:A:MET:HE1	1:561:A:LEU:HD13	17	1.18
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD13	3	1.18
(3,169)	1:583:A:ILE:HD12	1:586:A:GLU:HB2	6	1.18
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG21	11	1.18
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	24	1.18
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	3	1.18
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	13	1.18
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	19	1.18
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	12	1.18
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG23	25	1.18
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	23	1.17
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	14	1.17
(3,965)	1:545:A:GLY:H	1:567:A:GLU:HA	23	1.17
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD12	15	1.17
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB2	20	1.17
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	16	1.17
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	23	1.17
(3,752)	1:538:A:ILE:HD11	1:552:A:LEU:HD11	2	1.17
(1,1766)	1:611:A:ILE:HG13	1:611:A:ILE:H	17	1.17
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	7	1.17
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	15	1.17
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	23	1.17
(1,338)	1:513:A:ALA:HB3	1:515:A:ARG:HG3	11	1.17
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	23	1.17
(1,173)	1:514:A:GLN:HG3	1:600:A:GLN:HE21	19	1.17
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	25	1.16
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	8	1.16
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	6	1.16
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	22	1.16
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD12	6	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB3	13	1.16
(3,809)	1:563:A:MET:HE2	1:573:A:VAL:HG21	14	1.16
(3,809)	1:563:A:MET:HE1	1:561:A:LEU:HD11	22	1.16
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	11	1.16
(3,169)	1:583:A:ILE:HD11	1:586:A:GLU:HB2	13	1.16
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	7	1.16
(3,140)	1:592:A:MET:HE1	1:563:A:MET:HB2	14	1.16
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	22	1.16
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG23	7	1.16
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	18	1.16
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	18	1.16
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	21	1.16
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD23	10	1.16
(1,764)	1:558:A:GLN:HE22	1:595:A:ARG:HD3	9	1.16
(1,338)	1:513:A:ALA:HB2	1:515:A:ARG:HG2	23	1.16
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	8	1.16
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	2	1.15
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	11	1.15
(3,929)	1:514:A:GLN:H	1:546:A:LYS:HE2	3	1.15
(3,809)	1:563:A:MET:HE3	1:573:A:VAL:HG22	12	1.15
(3,169)	1:583:A:ILE:HD13	1:586:A:GLU:HB2	21	1.15
(3,1)	1:599:A:LEU:HD22	1:552:A:LEU:HG	10	1.15
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	16	1.15
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	9	1.15
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	3	1.15
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	22	1.15
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	13	1.15
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	14	1.15
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	23	1.15
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	12	1.14
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	7	1.14
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	24	1.14
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB1	3	1.14
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	22	1.14
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD13	23	1.14
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	17	1.14
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	11	1.14
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	10	1.14
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB2	12	1.14
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	16	1.14
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	12	1.14
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG11	2	1.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	20	1.13
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	2	1.13
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	12	1.13
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	16	1.13
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	10	1.13
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB3	5	1.13
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB1	15	1.13
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	4	1.13
(3,413)	1:567:A:GLU:HB3	1:565:A:TYR:HE2	11	1.13
(3,169)	1:583:A:ILE:HD11	1:537:A:VAL:HB	16	1.13
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	23	1.13
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	10	1.13
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	22	1.13
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	7	1.13
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD23	14	1.13
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG21	17	1.13
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD23	5	1.13
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	11	1.13
(1,189)	1:548:A:THR:HG22	1:566:A:THR:H	2	1.13
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	23	1.13
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	18	1.13
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	7	1.12
(3,929)	1:514:A:GLN:H	1:546:A:LYS:HE3	7	1.12
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB3	12	1.12
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB1	21	1.12
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB1	22	1.12
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	3	1.12
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	6	1.12
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	24	1.12
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG21	6	1.12
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	12	1.12
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	7	1.12
(1,1306)	1:516:A:LYS:HB2	1:519:A:GLY:H	14	1.12
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	19	1.12
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	20	1.12
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	16	1.12
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	18	1.12
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD23	22	1.12
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	22	1.12
(1,237)	1:514:A:GLN:HB3	1:517:A:GLY:HA2	2	1.12
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	21	1.12
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	9	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB1	19	1.11
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB2	24	1.11
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB3	25	1.11
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	5	1.11
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	2	1.11
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG21	14	1.11
(3,1)	1:599:A:LEU:HD22	1:552:A:LEU:HG	6	1.11
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	14	1.11
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD22	1	1.11
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD22	4	1.11
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	14	1.11
(1,328)	1:547:A:VAL:HG12	1:550:A:TYR:HB2	25	1.11
(1,278)	1:571:A:ALA:HB2	1:567:A:GLU:HB2	9	1.11
(1,278)	1:571:A:ALA:HB1	1:567:A:GLU:HB2	24	1.11
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	3	1.11
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	11	1.1
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	14	1.1
(3,922)	1:615:A:ILE:HG23	1:615:A:ILE:H	23	1.1
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	7	1.1
(3,188)	1:547:A:VAL:HG11	1:546:A:LYS:HG2	1	1.1
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG23	10	1.1
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	16	1.1
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	23	1.1
(3,1)	1:599:A:LEU:HD22	1:552:A:LEU:HG	4	1.1
(3,1)	1:599:A:LEU:HD21	1:552:A:LEU:HG	20	1.1
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	6	1.1
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	21	1.1
(1,753)	1:583:A:ILE:H	1:586:A:GLU:HB2	23	1.1
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	21	1.1
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	1	1.1
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	6	1.1
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD23	7	1.1
(1,338)	1:513:A:ALA:HB2	1:515:A:ARG:HG2	8	1.1
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	17	1.1
(1,207)	1:620:A:GLU:HG3	1:612:A:ILE:HD12	10	1.1
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	10	1.1
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	5	1.1
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	9	1.1
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	4	1.09
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	6	1.09
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	23	1.09
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB2	8	1.09

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	14	1.09
(3,413)	1:534:A:GLU:HG2	1:535:A:ASN:HD22	5	1.09
(3,413)	1:567:A:GLU:HB3	1:565:A:TYR:HE2	15	1.09
(3,187)	1:606:A:LYS:HG2	1:601:A:LEU:HD13	3	1.09
(3,169)	1:583:A:ILE:HD12	1:586:A:GLU:HB2	7	1.09
(3,169)	1:583:A:ILE:HD13	1:586:A:GLU:HB2	17	1.09
(3,140)	1:592:A:MET:HE1	1:563:A:MET:HB2	1	1.09
(3,140)	1:592:A:MET:HE1	1:563:A:MET:HB2	6	1.09
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG23	8	1.09
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG21	16	1.09
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	7	1.09
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	9	1.09
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	16	1.09
(1,753)	1:583:A:ILE:H	1:586:A:GLU:HB2	12	1.09
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	11	1.09
(1,614)	1:552:A:LEU:HD22	1:550:A:TYR:HE1	13	1.09
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	3	1.09
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	24	1.09
(1,102)	1:612:A:ILE:HA	1:614:A:ASP:HB2	9	1.09
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	24	1.09
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	18	1.08
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	19	1.08
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	7	1.08
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	19	1.08
(3,188)	1:547:A:VAL:HG11	1:546:A:LYS:HG2	16	1.08
(3,188)	1:547:A:VAL:HG13	1:546:A:LYS:HG2	17	1.08
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD11	10	1.08
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	13	1.08
(3,1)	1:599:A:LEU:HD22	1:552:A:LEU:HG	11	1.08
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	12	1.08
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	24	1.08
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD23	18	1.08
(1,189)	1:548:A:THR:HG23	1:566:A:THR:H	7	1.08
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	8	1.08
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	7	1.07
(3,913)	1:556:A:THR:H	1:528:A:PRO:HD2	9	1.07
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB1	7	1.07
(3,585)	1:617:A:SER:HB3	1:615:A:ILE:HD12	9	1.07
(3,188)	1:547:A:VAL:HG11	1:546:A:LYS:HG2	14	1.07
(3,169)	1:583:A:ILE:HD11	1:537:A:VAL:HB	19	1.07
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	22	1.07
(3,76)	1:569:A:ALA:HA	1:521:A:VAL:HG11	10	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	20	1.07
(1,614)	1:552:A:LEU:HD23	1:550:A:TYR:HE1	10	1.07
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	16	1.07
(1,247)	1:606:A:LYS:HB3	1:611:A:ILE:HD11	18	1.07
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	1	1.07
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	12	1.07
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	13	1.07
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	23	1.07
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG23	13	1.07
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	11	1.06
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	21	1.06
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	7	1.06
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	13	1.06
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	19	1.06
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB2	11	1.06
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	21	1.06
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB3	23	1.06
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB2	22	1.06
(3,169)	1:583:A:ILE:HD13	1:586:A:GLU:HB2	25	1.06
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	4	1.06
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG23	13	1.06
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	11	1.06
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	10	1.06
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	1	1.06
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	20	1.06
(1,291)	1:583:A:ILE:HD12	1:528:A:PRO:HD3	22	1.06
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD11	8	1.06
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	14	1.06
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	20	1.06
(3,990)	1:547:A:VAL:HG11	1:560:A:PHE:H	3	1.05
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD22	20	1.05
(3,708)	1:615:A:ILE:HA	1:618:A:GLN:HB2	1	1.05
(3,188)	1:547:A:VAL:HG11	1:546:A:LYS:HG2	25	1.05
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	20	1.05
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	3	1.05
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	6	1.05
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	10	1.05
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	4	1.05
(1,998)	1:583:A:ILE:HG12	1:583:A:ILE:HG21	22	1.05
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	7	1.05
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	8	1.05
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	10	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,247)	1:606:A:LYS:HB3	1:611:A:ILE:HD12	23	1.05
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	11	1.05
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	13	1.05
(1,69)	1:588:A:LEU:HD12	1:591:A:ARG:H	10	1.05
(1,69)	1:588:A:LEU:HD13	1:591:A:ARG:H	13	1.05
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	14	1.05
(1,69)	1:588:A:LEU:HD13	1:591:A:ARG:H	15	1.05
(1,69)	1:588:A:LEU:HD13	1:591:A:ARG:H	18	1.05
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	15	1.04
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG22	10	1.04
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	25	1.04
(3,1006)	1:577:A:GLN:HE21	1:572:A:MET:H	5	1.04
(3,990)	1:547:A:VAL:HG11	1:560:A:PHE:H	6	1.04
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	23	1.04
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	10	1.04
(3,169)	1:583:A:ILE:HD12	1:537:A:VAL:HB	20	1.04
(3,140)	1:592:A:MET:HE3	1:563:A:MET:HB2	12	1.04
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	23	1.04
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	25	1.04
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	11	1.04
(1,614)	1:552:A:LEU:HD23	1:550:A:TYR:HE1	20	1.04
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD23	9	1.04
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	25	1.04
(1,338)	1:513:A:ALA:HB1	1:515:A:ARG:HG2	13	1.04
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	17	1.04
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	1	1.04
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	7	1.04
(1,80)	1:514:A:GLN:HB2	1:518:A:ALA:H	5	1.04
(1,69)	1:588:A:LEU:HD12	1:591:A:ARG:H	5	1.04
(1,69)	1:588:A:LEU:HD12	1:591:A:ARG:H	24	1.04
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	15	1.03
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	18	1.03
(3,990)	1:547:A:VAL:HG11	1:560:A:PHE:H	2	1.03
(3,956)	1:524:A:ILE:HD13	1:542:A:LEU:H	6	1.03
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	23	1.03
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	9	1.03
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD11	8	1.03
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	7	1.03
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD11	12	1.03
(3,140)	1:592:A:MET:HE2	1:563:A:MET:HB2	3	1.03
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG21	5	1.03
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	1	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	2	1.03
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	19	1.03
(3,1)	1:599:A:LEU:HD23	1:552:A:LEU:HG	19	1.03
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	19	1.03
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	3	1.03
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	14	1.03
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	23	1.03
(1,998)	1:583:A:ILE:HG12	1:583:A:ILE:HG22	16	1.03
(1,495)	1:586:A:GLU:HG2	1:586:A:GLU:H	11	1.03
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	5	1.03
(1,392)	1:518:A:ALA:HB3	1:570:A:GLN:HE22	3	1.03
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	21	1.03
(1,282)	1:513:A:ALA:HB1	1:549:A:ASN:HA	22	1.03
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD13	11	1.03
(1,189)	1:548:A:THR:HG21	1:566:A:THR:H	11	1.03
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	19	1.03
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	5	1.03
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	6	1.03
(3,990)	1:547:A:VAL:HG11	1:560:A:PHE:H	21	1.02
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	17	1.02
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB1	4	1.02
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB2	14	1.02
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	3	1.02
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	14	1.02
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	14	1.02
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	20	1.02
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	3	1.02
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	24	1.02
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	21	1.02
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	20	1.02
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	21	1.02
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	14	1.02
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	3	1.02
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	9	1.02
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	25	1.01
(3,990)	1:547:A:VAL:HG13	1:560:A:PHE:H	25	1.01
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	4	1.01
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB2	1	1.01
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB1	9	1.01
(3,809)	1:563:A:MET:HE1	1:573:A:VAL:HG21	23	1.01
(3,169)	1:583:A:ILE:HD11	1:537:A:VAL:HB	3	1.01
(3,168)	1:538:A:ILE:HD13	1:561:A:LEU:HG	9	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,87)	1:537:A:VAL:HG23	1:554:A:LYS:HE3	10	1.01
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG21	16	1.01
(3,45)	1:600:A:GLN:HG3	1:549:A:ASN:H	9	1.01
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD22	6	1.01
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	4	1.01
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	11	1.01
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	3	1.01
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	5	1.01
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	2	1.01
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	15	1.01
(3,929)	1:514:A:GLN:H	1:546:A:LYS:HE3	19	1.0
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB1	17	1.0
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG23	16	1.0
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB3	10	1.0
(3,188)	1:547:A:VAL:HG11	1:546:A:LYS:HG2	13	1.0
(3,172)	1:584:A:ASN:HB3	1:583:A:ILE:HD13	1	1.0
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	4	1.0
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	12	1.0
(3,1)	1:599:A:LEU:HD21	1:552:A:LEU:HG	13	1.0
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG21	14	1.0
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	19	1.0
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	7	1.0
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	7	1.0
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	4	1.0
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	17	1.0
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	19	1.0
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	2	1.0
(1,69)	1:588:A:LEU:HD13	1:591:A:ARG:H	19	1.0
(1,69)	1:588:A:LEU:HD12	1:591:A:ARG:H	25	1.0
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	8	0.99
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG21	17	0.99
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	4	0.99
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	19	0.99
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	16	0.99
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	1	0.99
(3,956)	1:524:A:ILE:HD12	1:542:A:LEU:H	13	0.99
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	15	0.99
(3,922)	1:615:A:ILE:HG21	1:615:A:ILE:H	13	0.99
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG22	1	0.99
(3,140)	1:592:A:MET:HE1	1:563:A:MET:HB2	9	0.99
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	5	0.99
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	3	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	21	0.99
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG21	7	0.99
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	2	0.99
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	8	0.99
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	21	0.99
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD23	4	0.99
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD23	24	0.99
(1,291)	1:583:A:ILE:HD13	1:528:A:PRO:HD3	16	0.99
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	2	0.99
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	4	0.99
(3,969)	1:516:A:LYS:HG3	1:547:A:VAL:H	21	0.98
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	4	0.98
(3,895)	1:520:A:ARG:H	1:597:A:LYS:HE3	6	0.98
(3,863)	1:563:A:MET:HG2	1:592:A:MET:HE3	12	0.98
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG13	16	0.98
(3,631)	1:532:A:CYS:HB2	1:552:A:LEU:HD22	14	0.98
(3,585)	1:617:A:SER:HB2	1:615:A:ILE:HG21	19	0.98
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG22	21	0.98
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD13	19	0.98
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD12	21	0.98
(3,140)	1:592:A:MET:HE1	1:563:A:MET:HB2	5	0.98
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	7	0.98
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	19	0.98
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	11	0.98
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	9	0.98
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	20	0.98
(1,282)	1:513:A:ALA:HB1	1:549:A:ASN:HA	19	0.98
(1,278)	1:571:A:ALA:HB2	1:567:A:GLU:HB2	13	0.98
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	10	0.98
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	16	0.98
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	22	0.98
(1,237)	1:514:A:GLN:HB3	1:517:A:GLY:HA2	5	0.98
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	11	0.98
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	1	0.98
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	8	0.98
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	20	0.98
(1,69)	1:588:A:LEU:HD12	1:591:A:ARG:H	22	0.98
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	3	0.97
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	9	0.97
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG12	3	0.97
(3,990)	1:547:A:VAL:HG13	1:560:A:PHE:H	5	0.97
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG23	5	0.97

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	15	0.97
(3,929)	1:514:A:GLN:H	1:516:A:LYS:HE3	24	0.97
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	22	0.97
(3,751)	1:599:A:LEU:HD11	1:551:A:ILE:HG12	21	0.97
(3,645)	1:583:A:ILE:HD12	1:527:A:LEU:HA	14	0.97
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD22	19	0.97
(3,187)	1:603:A:LYS:HG2	1:601:A:LEU:HD13	20	0.97
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB2	11	0.97
(3,169)	1:583:A:ILE:HD13	1:537:A:VAL:HB	5	0.97
(3,169)	1:583:A:ILE:HD12	1:537:A:VAL:HB	8	0.97
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	10	0.97
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD11	2	0.97
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD13	6	0.97
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	14	0.97
(3,43)	1:618:A:GLN:HG3	1:616:A:HIS:H	9	0.97
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	15	0.97
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	11	0.97
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	15	0.97
(1,392)	1:518:A:ALA:HB2	1:570:A:GLN:HE22	10	0.97
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	20	0.97
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	21	0.96
(3,1006)	1:577:A:GLN:HE21	1:572:A:MET:H	16	0.96
(3,956)	1:590:A:ILE:HG21	1:542:A:LEU:H	22	0.96
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	2	0.96
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	20	0.96
(3,929)	1:514:A:GLN:H	1:606:A:LYS:HE2	8	0.96
(3,820)	1:527:A:LEU:HB3	1:559:A:ALA:HB1	16	0.96
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	2	0.96
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD23	22	0.96
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB2	21	0.96
(3,585)	1:617:A:SER:HB2	1:615:A:ILE:HG23	18	0.96
(3,180)	1:568:A:ALA:HB2	1:516:A:LYS:HB3	10	0.96
(3,168)	1:538:A:ILE:HD11	1:561:A:LEU:HG	14	0.96
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG22	12	0.96
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD13	15	0.96
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	15	0.96
(1,1217)	1:568:A:ALA:H	1:516:A:LYS:HB2	12	0.96
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	7	0.96
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	8	0.96
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	6	0.96
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	8	0.96
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD22	17	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	19	0.96
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	15	0.96
(1,173)	1:514:A:GLN:HG2	1:600:A:GLN:HE21	23	0.96
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	10	0.96
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	25	0.96
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	16	0.96
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	2	0.96
(3,1030)	1:592:A:MET:H	1:572:A:MET:HG3	23	0.95
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	1	0.95
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	24	0.95
(3,431)	1:524:A:ILE:HD11	1:523:A:HIS:HD2	3	0.95
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD13	18	0.95
(3,140)	1:592:A:MET:HE1	1:563:A:MET:HB2	16	0.95
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	9	0.95
(1,1701)	1:591:A:ARG:HB2	1:592:A:MET:H	10	0.95
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	15	0.95
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	17	0.95
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	14	0.95
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	19	0.95
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	6	0.95
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	8	0.95
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	12	0.95
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	19	0.95
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	1	0.95
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	12	0.94
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	24	0.94
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	22	0.94
(3,956)	1:524:A:ILE:HD12	1:542:A:LEU:H	19	0.94
(3,863)	1:563:A:MET:HG2	1:592:A:MET:HE3	21	0.94
(3,708)	1:613:A:GLN:HB3	1:615:A:ILE:HA	7	0.94
(3,174)	1:590:A:ILE:HD13	1:587:A:LYS:HA	16	0.94
(3,169)	1:583:A:ILE:HD12	1:537:A:VAL:HB	18	0.94
(3,168)	1:538:A:ILE:HD11	1:561:A:LEU:HG	7	0.94
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG23	25	0.94
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD12	11	0.94
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	19	0.94
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	15	0.94
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	17	0.94
(3,53)	1:519:A:GLY:HA2	1:568:A:ALA:HB2	11	0.94
(3,8)	1:563:A:MET:HE3	1:565:A:TYR:H	5	0.94
(1,1701)	1:591:A:ARG:HB2	1:592:A:MET:H	20	0.94
(1,1701)	1:591:A:ARG:HB2	1:592:A:MET:H	21	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	4	0.94
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	23	0.94
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD23	24	0.94
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	7	0.94
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	4	0.94
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	9	0.94
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	20	0.94
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	21	0.94
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	25	0.94
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	8	0.94
(1,80)	1:514:A:GLN:HB2	1:518:A:ALA:H	18	0.94
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	6	0.94
(1,69)	1:588:A:LEU:HD12	1:591:A:ARG:H	11	0.94
(1,69)	1:588:A:LEU:HD12	1:591:A:ARG:H	21	0.94
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	14	0.94
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	2	0.93
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	24	0.93
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	13	0.93
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	18	0.93
(3,170)	1:611:A:ILE:HD12	1:606:A:LYS:HD2	22	0.93
(3,169)	1:583:A:ILE:HD11	1:586:A:GLU:HB2	1	0.93
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG22	14	0.93
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG22	18	0.93
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD13	9	0.93
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	1	0.93
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	9	0.93
(1,392)	1:518:A:ALA:HB3	1:570:A:GLN:HE22	8	0.93
(1,392)	1:518:A:ALA:HB3	1:570:A:GLN:HE22	24	0.93
(1,338)	1:513:A:ALA:HB3	1:515:A:ARG:HG2	24	0.93
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	19	0.93
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	24	0.93
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	2	0.93
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	12	0.93
(1,69)	1:588:A:LEU:HD12	1:591:A:ARG:H	7	0.93
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	1	0.93
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG21	6	0.92
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG21	19	0.92
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG21	24	0.92
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	17	0.92
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	19	0.92
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	18	0.92
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	4	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,956)	1:524:A:ILE:HD13	1:542:A:LEU:H	11	0.92
(3,798)	1:527:A:LEU:HD13	1:537:A:VAL:HG12	5	0.92
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG12	8	0.92
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	12	0.92
(3,628)	1:563:A:MET:HG3	1:561:A:LEU:HD21	1	0.92
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG22	23	0.92
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	22	0.92
(3,413)	1:613:A:GLN:HB2	1:565:A:TYR:HE2	21	0.92
(3,169)	1:583:A:ILE:HD11	1:537:A:VAL:HB	11	0.92
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG23	22	0.92
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG22	23	0.92
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	18	0.92
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	20	0.92
(1,1701)	1:591:A:ARG:HB2	1:592:A:MET:H	3	0.92
(1,1122)	1:519:A:GLY:H	1:566:A:THR:HG23	23	0.92
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	13	0.92
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	11	0.92
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD12	25	0.92
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	20	0.92
(1,69)	1:588:A:LEU:HD13	1:591:A:ARG:H	17	0.92
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG22	20	0.91
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG21	23	0.91
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG11	21	0.91
(3,990)	1:547:A:VAL:HG13	1:560:A:PHE:H	12	0.91
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG23	14	0.91
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG22	23	0.91
(3,929)	1:514:A:GLN:H	1:606:A:LYS:HE2	15	0.91
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD21	4	0.91
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB2	14	0.91
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	22	0.91
(3,168)	1:538:A:ILE:HD13	1:561:A:LEU:HG	12	0.91
(3,168)	1:538:A:ILE:HD13	1:561:A:LEU:HG	13	0.91
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	7	0.91
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	11	0.91
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD11	14	0.91
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG12	3	0.91
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG2	25	0.91
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	22	0.91
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	4	0.91
(1,392)	1:518:A:ALA:HB1	1:570:A:GLN:HE22	6	0.91
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD13	7	0.91
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD12	20	0.91

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	22	0.91
(1,62)	1:572:A:MET:HE2	1:545:A:GLY:HA2	10	0.91
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	22	0.91
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	4	0.9
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG22	13	0.9
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	17	0.9
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	9	0.9
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	9	0.9
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB2	2	0.9
(3,628)	1:563:A:MET:HG3	1:561:A:LEU:HD23	8	0.9
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	15	0.9
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG22	17	0.9
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	20	0.9
(3,170)	1:612:A:ILE:HD12	1:619:A:ARG:HG3	7	0.9
(3,60)	1:578:A:GLU:HB2	1:574:A:GLN:HA	6	0.9
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	18	0.9
(1,1766)	1:611:A:ILE:HG13	1:611:A:ILE:H	16	0.9
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	20	0.9
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD22	12	0.9
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	22	0.9
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	24	0.9
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	12	0.9
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	2	0.9
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	15	0.9
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	23	0.9
(1,247)	1:606:A:LYS:HB3	1:611:A:ILE:HD12	1	0.9
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG13	10	0.89
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG21	7	0.89
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	15	0.89
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	5	0.89
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	15	0.89
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	12	0.89
(3,922)	1:615:A:ILE:HD12	1:615:A:ILE:H	15	0.89
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	20	0.89
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB3	1	0.89
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	4	0.89
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	21	0.89
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD13	11	0.89
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	6	0.89
(3,172)	1:584:A:ASN:HB3	1:583:A:ILE:HD13	20	0.89
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	6	0.89
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	16	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	24	0.89
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	2	0.89
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD12	24	0.89
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	21	0.89
(3,8)	1:563:A:MET:HE1	1:565:A:TYR:H	18	0.89
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	7	0.89
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	14	0.89
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG23	3	0.89
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG23	25	0.89
(1,127)	1:589:A:LEU:HA	1:576:A:TYR:HB2	6	0.89
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	17	0.89
(1,69)	1:588:A:LEU:HD11	1:591:A:ARG:H	16	0.89
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	16	0.89
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG22	5	0.88
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	24	0.88
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	14	0.88
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	17	0.88
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	21	0.88
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	5	0.88
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	1	0.88
(3,926)	1:577:A:GLN:HB3	1:574:A:GLN:HE22	17	0.88
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD13	19	0.88
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	8	0.88
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE2	18	0.88
(3,187)	1:603:A:LYS:HG2	1:601:A:LEU:HD21	6	0.88
(3,172)	1:584:A:ASN:HB3	1:583:A:ILE:HD12	19	0.88
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG23	3	0.88
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD11	3	0.88
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD13	17	0.88
(3,60)	1:578:A:GLU:HB2	1:574:A:GLN:HA	25	0.88
(3,53)	1:519:A:GLY:HA2	1:568:A:ALA:HB1	12	0.88
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	10	0.88
(1,1719)	1:521:A:VAL:H	1:597:A:LYS:HE2	20	0.88
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	19	0.88
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	7	0.88
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	4	0.88
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	7	0.88
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	23	0.88
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	5	0.88
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	13	0.88
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	11	0.88
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE1	16	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,990)	1:547:A:VAL:HG11	1:560:A:PHE:H	8	0.87
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	9	0.87
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	1	0.87
(3,956)	1:524:A:ILE:HD12	1:542:A:LEU:H	18	0.87
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	3	0.87
(3,820)	1:527:A:LEU:HB2	1:559:A:ALA:HB3	18	0.87
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG13	22	0.87
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	15	0.87
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	19	0.87
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD23	12	0.87
(3,628)	1:563:A:MET:HG3	1:561:A:LEU:HD22	5	0.87
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG11	16	0.87
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG23	24	0.87
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	24	0.87
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG22	19	0.87
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG22	10	0.87
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG11	20	0.87
(3,60)	1:578:A:GLU:HB2	1:574:A:GLN:HA	22	0.87
(3,8)	1:553:A:MET:HE2	1:556:A:THR:H	14	0.87
(1,1766)	1:611:A:ILE:HG13	1:611:A:ILE:H	23	0.87
(1,1542)	1:514:A:GLN:H	1:564:A:ALA:HB2	21	0.87
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	23	0.87
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	18	0.87
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	9	0.87
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	11	0.87
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	25	0.87
(1,392)	1:518:A:ALA:HB1	1:570:A:GLN:HE22	16	0.87
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG23	10	0.87
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	11	0.87
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG21	15	0.87
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	18	0.87
(1,80)	1:514:A:GLN:HB2	1:518:A:ALA:H	20	0.87
(1,62)	1:572:A:MET:HE1	1:545:A:GLY:HA2	8	0.87
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	4	0.86
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG22	18	0.86
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	1	0.86
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	11	0.86
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	12	0.86
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	16	0.86
(3,956)	1:524:A:ILE:HD12	1:542:A:LEU:H	23	0.86
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG22	17	0.86
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	21	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD12	2	0.86
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD12	7	0.86
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD21	11	0.86
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD12	6	0.86
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD13	18	0.86
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD11	8	0.86
(3,60)	1:578:A:GLU:HB2	1:574:A:GLN:HA	7	0.86
(3,8)	1:563:A:MET:HE1	1:565:A:TYR:H	10	0.86
(1,1766)	1:611:A:ILE:HG13	1:611:A:ILE:H	14	0.86
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	3	0.86
(1,1122)	1:519:A:GLY:H	1:566:A:THR:HG21	14	0.86
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	4	0.86
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	24	0.86
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG22	14	0.86
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG21	4	0.86
(1,753)	1:583:A:ILE:H	1:586:A:GLU:HB2	18	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	1	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD21	6	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD22	7	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD21	8	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD21	11	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	14	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD22	16	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	18	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	19	0.86
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD21	24	0.86
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	1	0.86
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	3	0.86
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	8	0.86
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	12	0.86
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	17	0.86
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	19	0.86
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	20	0.86
(1,392)	1:518:A:ALA:HB3	1:570:A:GLN:HE22	17	0.86
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD11	3	0.86
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	8	0.86
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	14	0.86
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG23	19	0.86
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	20	0.86
(1,240)	1:577:A:GLN:HB3	1:592:A:MET:HG2	23	0.86
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	22	0.86
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	1	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	17	0.86
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE1	5	0.86
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	11	0.85
(3,990)	1:547:A:VAL:HG13	1:560:A:PHE:H	16	0.85
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	10	0.85
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	5	0.85
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	7	0.85
(3,956)	1:524:A:ILE:HD13	1:542:A:LEU:H	16	0.85
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	25	0.85
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	3	0.85
(3,929)	1:514:A:GLN:H	1:546:A:LYS:HE3	16	0.85
(3,927)	1:574:A:GLN:HE22	1:570:A:GLN:HB3	3	0.85
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	15	0.85
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG13	3	0.85
(3,174)	1:590:A:ILE:HD13	1:587:A:LYS:HA	9	0.85
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	4	0.85
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG23	15	0.85
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	12	0.85
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD11	4	0.85
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD13	13	0.85
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	14	0.85
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	8	0.85
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	11	0.85
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	17	0.85
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	25	0.85
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	11	0.85
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	13	0.85
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	21	0.85
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	23	0.85
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	5	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	2	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	3	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	9	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD22	12	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	13	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD22	21	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD21	23	0.85
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD21	25	0.85
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	2	0.85
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	10	0.85
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	14	0.85
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	16	0.85

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	18	0.85
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	24	0.85
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG21	4	0.85
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	16	0.85
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	22	0.85
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	24	0.85
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	19	0.85
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	13	0.84
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	23	0.84
(3,990)	1:547:A:VAL:HG13	1:560:A:PHE:H	13	0.84
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	7	0.84
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	20	0.84
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	23	0.84
(3,863)	1:563:A:MET:HG2	1:592:A:MET:HE1	16	0.84
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG11	20	0.84
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD23	15	0.84
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	12	0.84
(3,174)	1:590:A:ILE:HD13	1:587:A:LYS:HA	1	0.84
(3,174)	1:590:A:ILE:HD13	1:587:A:LYS:HA	13	0.84
(3,168)	1:538:A:ILE:HD13	1:561:A:LEU:HG	15	0.84
(3,168)	1:538:A:ILE:HD11	1:561:A:LEU:HG	23	0.84
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG23	13	0.84
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD12	10	0.84
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD12	22	0.84
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	4	0.84
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	12	0.84
(1,1766)	1:611:A:ILE:HG13	1:611:A:ILE:H	25	0.84
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	15	0.84
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	6	0.84
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	2	0.84
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	10	0.84
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	14	0.84
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	20	0.84
(1,1122)	1:519:A:GLY:H	1:566:A:THR:HG21	12	0.84
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	6	0.84
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	12	0.84
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG21	1	0.84
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD21	4	0.84
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD22	5	0.84
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD22	15	0.84
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	17	0.84
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	6	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	13	0.84
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	15	0.84
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	21	0.84
(1,391)	1:518:A:ALA:HB1	1:570:A:GLN:HE21	3	0.84
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG21	1	0.84
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	7	0.84
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG21	18	0.84
(1,173)	1:514:A:GLN:HG2	1:600:A:GLN:HE21	18	0.84
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	6	0.84
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	20	0.84
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	11	0.84
(3,990)	1:547:A:VAL:HG11	1:560:A:PHE:H	10	0.83
(3,990)	1:547:A:VAL:HG13	1:560:A:PHE:H	20	0.83
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	3	0.83
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	19	0.83
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	22	0.83
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	25	0.83
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	25	0.83
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	10	0.83
(3,753)	1:599:A:LEU:HD13	1:601:A:LEU:HD21	5	0.83
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	9	0.83
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE1	6	0.83
(3,169)	1:583:A:ILE:HD11	1:537:A:VAL:HB	12	0.83
(3,169)	1:583:A:ILE:HD13	1:537:A:VAL:HB	23	0.83
(3,168)	1:538:A:ILE:HD11	1:561:A:LEU:HG	11	0.83
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	17	0.83
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD11	20	0.83
(3,53)	1:519:A:GLY:HA2	1:568:A:ALA:HB2	14	0.83
(3,43)	1:618:A:GLN:HG2	1:616:A:HIS:H	24	0.83
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	1	0.83
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	13	0.83
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	2	0.83
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	3	0.83
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	12	0.83
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	17	0.83
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	18	0.83
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	21	0.83
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	10	0.83
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	12	0.83
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	17	0.83
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	1	0.83
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	5	0.83

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	13	0.83
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	15	0.83
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	22	0.83
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	23	0.83
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	24	0.83
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	25	0.83
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	18	0.83
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	4	0.83
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG21	19	0.83
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD22	10	0.83
(1,658)	1:551:A:ILE:HD11	1:596:A:TYR:HE2	8	0.83
(1,614)	1:552:A:LEU:HD22	1:550:A:TYR:HE1	1	0.83
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	5	0.83
(1,595)	1:577:A:GLN:HB3	1:577:A:GLN:H	22	0.83
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	12	0.83
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	18	0.83
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	24	0.83
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	25	0.83
(1,361)	1:526:A:ASN:HB3	1:527:A:LEU:HD21	12	0.83
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD13	1	0.83
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG23	5	0.83
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	9	0.83
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	24	0.83
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	10	0.83
(1,62)	1:572:A:MET:HE1	1:545:A:GLY:HA2	11	0.83
(1,62)	1:572:A:MET:HE2	1:545:A:GLY:HA2	18	0.83
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	22	0.83
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	22	0.82
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	15	0.82
(3,990)	1:547:A:VAL:HG11	1:560:A:PHE:H	22	0.82
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG23	1	0.82
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	8	0.82
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	12	0.82
(3,929)	1:514:A:GLN:H	1:546:A:LYS:HE3	22	0.82
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	25	0.82
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	2	0.82
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD21	3	0.82
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD22	8	0.82
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	11	0.82
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG11	21	0.82
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	18	0.82
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE2	7	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,430)	1:521:A:VAL:HG12	1:596:A:TYR:HE2	23	0.82
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	10	0.82
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD11	23	0.82
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	8	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	1	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	4	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	5	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	6	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	8	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	10	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	11	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	14	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	15	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	19	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	20	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	22	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	23	0.82
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	25	0.82
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	9	0.82
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	3	0.82
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	4	0.82
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	6	0.82
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	9	0.82
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	12	0.82
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	16	0.82
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	18	0.82
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	9	0.82
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	3	0.82
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	1	0.82
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	25	0.82
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD23	20	0.82
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	2	0.82
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	11	0.82
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	1	0.82
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	2	0.82
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	7	0.82
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	14	0.82
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	21	0.82
(1,392)	1:518:A:ALA:HB1	1:570:A:GLN:HE22	5	0.82
(1,282)	1:513:A:ALA:HB1	1:549:A:ASN:HA	23	0.82
(1,282)	1:513:A:ALA:HB1	1:549:A:ASN:HA	24	0.82
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG22	2	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG21	6	0.82
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG23	12	0.82
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG23	13	0.82
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG21	17	0.82
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG21	21	0.82
(1,248)	1:580:A:PRO:HB3	1:573:A:VAL:HG23	24	0.82
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	25	0.82
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	6	0.82
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	23	0.82
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	22	0.81
(3,990)	1:547:A:VAL:HG13	1:560:A:PHE:H	14	0.81
(3,970)	1:548:A:THR:H	1:606:A:LYS:HE3	23	0.81
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	2	0.81
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	4	0.81
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	6	0.81
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG12	11	0.81
(3,798)	1:527:A:LEU:HD13	1:537:A:VAL:HG12	19	0.81
(3,771)	1:581:A:ALA:HB1	1:590:A:ILE:HG12	6	0.81
(3,752)	1:538:A:ILE:HD12	1:552:A:LEU:HD12	12	0.81
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	14	0.81
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	5	0.81
(3,150)	1:537:A:VAL:HG22	1:588:A:LEU:HD11	1	0.81
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD12	7	0.81
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG12	8	0.81
(3,60)	1:578:A:GLU:HB2	1:574:A:GLN:HA	1	0.81
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	3	0.81
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	8	0.81
(1,1766)	1:611:A:ILE:HG13	1:611:A:ILE:H	21	0.81
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	25	0.81
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	7	0.81
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	9	0.81
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	13	0.81
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	16	0.81
(1,1421)	1:540:A:LEU:HB3	1:540:A:LEU:H	24	0.81
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	13	0.81
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	19	0.81
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	21	0.81
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD23	4	0.81
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG21	18	0.81
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	8	0.81
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	16	0.81
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	19	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,328)	1:547:A:VAL:HG11	1:550:A:TYR:HB2	10	0.81
(1,62)	1:572:A:MET:HE2	1:545:A:GLY:HA2	1	0.81
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	2	0.81
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	4	0.81
(1,22)	1:573:A:VAL:HG12	1:576:A:TYR:HE1	15	0.81
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	18	0.81
(3,956)	1:524:A:ILE:HD13	1:542:A:LEU:H	9	0.8
(3,922)	1:615:A:ILE:HD11	1:615:A:ILE:H	6	0.8
(3,922)	1:615:A:ILE:HD11	1:615:A:ILE:H	11	0.8
(3,863)	1:563:A:MET:HG3	1:592:A:MET:HE2	23	0.8
(3,853)	1:527:A:LEU:HD22	1:559:A:ALA:HB2	18	0.8
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG11	9	0.8
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD13	16	0.8
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG11	6	0.8
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG22	5	0.8
(3,430)	1:551:A:ILE:HG12	1:596:A:TYR:HE1	15	0.8
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE2	21	0.8
(3,168)	1:538:A:ILE:HD13	1:561:A:LEU:HG	4	0.8
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	1	0.8
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD11	15	0.8
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	19	0.8
(3,150)	1:537:A:VAL:HG21	1:588:A:LEU:HD12	5	0.8
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	5	0.8
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	2	0.8
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	6	0.8
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	4	0.8
(1,1160)	1:542:A:LEU:HB3	1:542:A:LEU:H	7	0.8
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG22	14	0.8
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD21	5	0.8
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	11	0.8
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	17	0.8
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	21	0.8
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD23	24	0.8
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	12	0.8
(1,893)	1:615:A:ILE:HA	1:615:A:ILE:HG22	1	0.8
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG21	17	0.8
(1,700)	1:599:A:LEU:HB2	1:599:A:LEU:HD22	22	0.8
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	9	0.8
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	13	0.8
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	22	0.8
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	7	0.8
(1,22)	1:573:A:VAL:HG12	1:576:A:TYR:HE1	9	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	25	0.8
(3,973)	1:512:A:MET:HB2	1:549:A:ASN:H	6	0.79
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	10	0.79
(3,956)	1:524:A:ILE:HD13	1:542:A:LEU:H	20	0.79
(3,929)	1:514:A:GLN:H	1:606:A:LYS:HE3	11	0.79
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	13	0.79
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	4	0.79
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG11	15	0.79
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG12	17	0.79
(3,752)	1:538:A:ILE:HD13	1:552:A:LEU:HD12	1	0.79
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	3	0.79
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	15	0.79
(3,431)	1:524:A:ILE:HD12	1:523:A:HIS:HD2	9	0.79
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	4	0.79
(3,390)	1:540:A:LEU:HD22	1:576:A:TYR:HE2	21	0.79
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	3	0.79
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	8	0.79
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	9	0.79
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	19	0.79
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	15	0.79
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	11	0.79
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	13	0.79
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	12	0.79
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	2	0.79
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	21	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD21	1	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	3	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD23	9	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD23	10	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD23	13	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD21	16	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD23	23	0.79
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	25	0.79
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	2	0.79
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG21	6	0.79
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG22	20	0.79
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	21	0.79
(1,338)	1:513:A:ALA:HB1	1:515:A:ARG:HG2	1	0.79
(1,80)	1:514:A:GLN:HB2	1:518:A:ALA:H	2	0.79
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	18	0.78
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	1	0.78
(3,932)	1:525:A:CYS:H	1:540:A:LEU:HB2	18	0.78

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,929)	1:514:A:GLN:H	1:516:A:LYS:HE2	25	0.78
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	5	0.78
(3,836)	1:524:A:ILE:HD13	1:524:A:ILE:HG12	9	0.78
(3,836)	1:524:A:ILE:HD13	1:524:A:ILE:HG12	16	0.78
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG13	14	0.78
(3,753)	1:599:A:LEU:HD13	1:601:A:LEU:HD23	6	0.78
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	7	0.78
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	12	0.78
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	25	0.78
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	21	0.78
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	6	0.78
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD12	25	0.78
(3,19)	1:594:A:THR:HB	1:596:A:TYR:HA	19	0.78
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	9	0.78
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	25	0.78
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	6	0.78
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD23	7	0.78
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD21	8	0.78
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	12	0.78
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	19	0.78
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	20	0.78
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	1	0.78
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	21	0.78
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	4	0.78
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG22	10	0.78
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG22	13	0.78
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG21	24	0.78
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	11	0.78
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG22	13	0.78
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	18	0.78
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	10	0.78
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	13	0.78
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG23	15	0.78
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	10	0.78
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	10	0.78
(1,62)	1:572:A:MET:HE1	1:545:A:GLY:HA2	5	0.78
(1,62)	1:572:A:MET:HE2	1:545:A:GLY:HA2	17	0.78
(1,22)	1:573:A:VAL:HG12	1:576:A:TYR:HE1	7	0.78
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	13	0.78
(1,22)	1:573:A:VAL:HG12	1:576:A:TYR:HE1	19	0.78
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	6	0.77
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD12	24	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	1	0.77
(3,836)	1:524:A:ILE:HD12	1:524:A:ILE:HG12	3	0.77
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	4	0.77
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	8	0.77
(3,836)	1:524:A:ILE:HD12	1:524:A:ILE:HG12	13	0.77
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	15	0.77
(3,836)	1:524:A:ILE:HD13	1:524:A:ILE:HG12	22	0.77
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG13	24	0.77
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD22	18	0.77
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	7	0.77
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG22	19	0.77
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE2	12	0.77
(3,170)	1:611:A:ILE:HD11	1:606:A:LYS:HD2	20	0.77
(3,168)	1:538:A:ILE:HD13	1:561:A:LEU:HG	8	0.77
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	20	0.77
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG22	2	0.77
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG21	9	0.77
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	13	0.77
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	3	0.77
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	2	0.77
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	14	0.77
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	15	0.77
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD23	18	0.77
(1,994)	1:540:A:LEU:HB2	1:540:A:LEU:HD22	22	0.77
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG22	12	0.77
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	9	0.77
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD11	9	0.77
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	18	0.77
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	20	0.77
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	4	0.77
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	8	0.77
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	18	0.76
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	11	0.76
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG23	18	0.76
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	2	0.76
(3,836)	1:524:A:ILE:HD13	1:524:A:ILE:HG12	6	0.76
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	10	0.76
(3,836)	1:524:A:ILE:HD13	1:524:A:ILE:HG12	11	0.76
(3,836)	1:524:A:ILE:HD12	1:524:A:ILE:HG12	14	0.76
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	17	0.76
(3,836)	1:524:A:ILE:HD12	1:524:A:ILE:HG12	18	0.76
(3,836)	1:524:A:ILE:HD12	1:524:A:ILE:HG12	19	0.76

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,836)	1:524:A:ILE:HD13	1:524:A:ILE:HG12	20	0.76
(3,836)	1:524:A:ILE:HD12	1:524:A:ILE:HG12	21	0.76
(3,836)	1:524:A:ILE:HD12	1:524:A:ILE:HG12	23	0.76
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	24	0.76
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG12	13	0.76
(3,798)	1:527:A:LEU:HD13	1:537:A:VAL:HG13	23	0.76
(3,771)	1:573:A:VAL:HG12	1:590:A:ILE:HG22	7	0.76
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD23	14	0.76
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	23	0.76
(3,388)	1:538:A:ILE:HG21	1:550:A:TYR:HE2	24	0.76
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	5	0.76
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	17	0.76
(3,47)	1:618:A:GLN:HG3	1:565:A:TYR:HE2	5	0.76
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	3	0.76
(3,30)	1:612:A:ILE:HD11	1:610:A:ALA:H	4	0.76
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	13	0.76
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	4	0.76
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	24	0.76
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	12	0.76
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	3	0.76
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG22	5	0.76
(1,392)	1:518:A:ALA:HB2	1:570:A:GLN:HE22	13	0.76
(1,62)	1:572:A:MET:HE2	1:545:A:GLY:HA2	21	0.76
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	16	0.76
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG21	16	0.75
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG21	12	0.75
(3,973)	1:512:A:MET:HB2	1:549:A:ASN:H	12	0.75
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	8	0.75
(3,910)	1:515:A:ARG:H	1:616:A:HIS:HB3	23	0.75
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB2	12	0.75
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	7	0.75
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	12	0.75
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	25	0.75
(3,798)	1:527:A:LEU:HD13	1:537:A:VAL:HG12	18	0.75
(3,745)	1:537:A:VAL:HG23	1:527:A:LEU:HD13	10	0.75
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG23	25	0.75
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD23	1	0.75
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	24	0.75
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	2	0.75
(3,169)	1:583:A:ILE:HD12	1:586:A:GLU:HB2	14	0.75
(3,60)	1:578:A:GLU:HB2	1:574:A:GLN:HA	11	0.75
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	23	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	5	0.75
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	6	0.75
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	14	0.75
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	17	0.75
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	19	0.75
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	17	0.75
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	24	0.75
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	8	0.75
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	15	0.75
(1,392)	1:518:A:ALA:HB1	1:570:A:GLN:HE22	2	0.75
(1,352)	1:520:A:ARG:HD2	1:520:A:ARG:HB2	8	0.75
(1,282)	1:513:A:ALA:HB2	1:549:A:ASN:HA	21	0.75
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD11	15	0.75
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	5	0.75
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	11	0.75
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	14	0.75
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	20	0.75
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	5	0.75
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	12	0.75
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	21	0.75
(3,1024)	1:587:A:LYS:H	1:583:A:ILE:HG23	22	0.74
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	13	0.74
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	15	0.74
(3,960)	1:542:A:LEU:H	1:561:A:LEU:HA	24	0.74
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	20	0.74
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB1	2	0.74
(3,836)	1:524:A:ILE:HD11	1:524:A:ILE:HG12	2	0.74
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	24	0.74
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	2	0.74
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	10	0.74
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE1	22	0.74
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	18	0.74
(3,187)	1:603:A:LYS:HG2	1:601:A:LEU:HD22	7	0.74
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	23	0.74
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	16	0.74
(3,7)	1:563:A:MET:HE3	1:542:A:LEU:H	11	0.74
(1,1766)	1:611:A:ILE:HG13	1:611:A:ILE:H	18	0.74
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	18	0.74
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	24	0.74
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	18	0.74
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	10	0.74
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	11	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	19	0.74
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG23	9	0.74
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG21	16	0.74
(1,338)	1:513:A:ALA:HB1	1:515:A:ARG:HG2	16	0.74
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	9	0.74
(1,247)	1:606:A:LYS:HB3	1:611:A:ILE:HD13	16	0.74
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	21	0.74
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	9	0.74
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	25	0.74
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	3	0.74
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	14	0.74
(1,22)	1:573:A:VAL:HG12	1:576:A:TYR:HE1	20	0.74
(1,22)	1:573:A:VAL:HG13	1:576:A:TYR:HE1	24	0.74
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	10	0.73
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	8	0.73
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	24	0.73
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG22	22	0.73
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	25	0.73
(3,825)	1:524:A:ILE:HG21	1:559:A:ALA:HB2	12	0.73
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG13	6	0.73
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG13	21	0.73
(3,798)	1:527:A:LEU:HD13	1:537:A:VAL:HG12	25	0.73
(3,759)	1:586:A:GLU:HB2	1:588:A:LEU:HD22	18	0.73
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	16	0.73
(3,415)	1:563:A:MET:HE1	1:576:A:TYR:HE1	23	0.73
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	21	0.73
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	13	0.73
(3,47)	1:618:A:GLN:HG3	1:565:A:TYR:HE2	6	0.73
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	9	0.73
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	14	0.73
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG22	8	0.73
(1,695)	1:560:A:PHE:HD1	1:596:A:TYR:HE2	15	0.73
(1,338)	1:513:A:ALA:HB3	1:515:A:ARG:HG2	3	0.73
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD12	22	0.73
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG23	8	0.73
(1,22)	1:573:A:VAL:HG11	1:576:A:TYR:HE1	10	0.73
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	2	0.72
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	20	0.72
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	11	0.72
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	23	0.72
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	13	0.72
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB3	16	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,798)	1:527:A:LEU:HD13	1:537:A:VAL:HG13	4	0.72
(3,771)	1:573:A:VAL:HG12	1:590:A:ILE:HG22	9	0.72
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	18	0.72
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	12	0.72
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	11	0.72
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	14	0.72
(3,168)	1:538:A:ILE:HD11	1:561:A:LEU:HG	24	0.72
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG13	15	0.72
(3,8)	1:563:A:MET:HE3	1:565:A:TYR:H	4	0.72
(3,8)	1:563:A:MET:HE3	1:565:A:TYR:H	16	0.72
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	3	0.72
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	9	0.72
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	21	0.72
(1,1393)	1:535:A:ASN:HD22	1:535:A:ASN:H	23	0.72
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	5	0.72
(1,1217)	1:568:A:ALA:H	1:516:A:LYS:HB2	21	0.72
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	12	0.72
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	18	0.72
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG23	12	0.72
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG21	16	0.72
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	20	0.72
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	23	0.72
(1,482)	1:529:A:GLU:HG3	1:529:A:GLU:H	5	0.72
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD11	7	0.72
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	23	0.72
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG21	4	0.72
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG22	15	0.72
(1,62)	1:572:A:MET:HE1	1:545:A:GLY:HA2	22	0.72
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG23	1	0.71
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	24	0.71
(3,990)	1:547:A:VAL:HG12	1:560:A:PHE:H	7	0.71
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG11	1	0.71
(3,855)	1:513:A:ALA:HB2	1:515:A:ARG:HG3	6	0.71
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	10	0.71
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG12	10	0.71
(3,771)	1:581:A:ALA:HB3	1:590:A:ILE:HG12	22	0.71
(3,752)	1:538:A:ILE:HD11	1:552:A:LEU:HD13	17	0.71
(3,742)	1:590:A:ILE:HD11	1:540:A:LEU:HD22	21	0.71
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	20	0.71
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG23	22	0.71
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	23	0.71
(3,556)	1:570:A:GLN:HG2	1:570:A:GLN:HA	21	0.71

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,413)	1:534:A:GLU:HG2	1:535:A:ASN:HD22	17	0.71
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	2	0.71
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	4	0.71
(3,86)	1:549:A:ASN:HB3	1:547:A:VAL:HG11	5	0.71
(3,86)	1:536:A:ASP:HB3	1:533:A:THR:HG21	22	0.71
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	18	0.71
(3,7)	1:563:A:MET:HE2	1:542:A:LEU:H	12	0.71
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	1	0.71
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	23	0.71
(1,1191)	1:529:A:GLU:HG2	1:557:A:ASN:H	8	0.71
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	17	0.71
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG22	18	0.71
(1,881)	1:584:A:ASN:HB3	1:583:A:ILE:HG21	23	0.71
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	3	0.71
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	21	0.71
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG22	23	0.71
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD21	5	0.71
(1,498)	1:515:A:ARG:HB2	1:516:A:LYS:H	24	0.71
(1,278)	1:571:A:ALA:HB1	1:567:A:GLU:HB2	8	0.71
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD13	4	0.71
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	15	0.71
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	24	0.71
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG21	3	0.71
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG12	5	0.7
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	8	0.7
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	21	0.7
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	2	0.7
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	6	0.7
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	7	0.7
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	14	0.7
(3,956)	1:524:A:ILE:HD12	1:542:A:LEU:H	3	0.7
(3,853)	1:527:A:LEU:HD22	1:559:A:ALA:HB3	4	0.7
(3,771)	1:581:A:ALA:HB1	1:590:A:ILE:HG12	15	0.7
(3,753)	1:599:A:LEU:HD13	1:601:A:LEU:HD22	9	0.7
(3,753)	1:599:A:LEU:HD12	1:601:A:LEU:HD21	16	0.7
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD13	24	0.7
(3,742)	1:590:A:ILE:HD11	1:540:A:LEU:HD21	10	0.7
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	4	0.7
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	22	0.7
(3,390)	1:540:A:LEU:HD21	1:576:A:TYR:HE2	10	0.7
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG22	2	0.7
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	4	0.7

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	7	0.7
(3,165)	1:522:A:VAL:HB	1:590:A:ILE:HG22	17	0.7
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	5	0.7
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	10	0.7
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	24	0.7
(3,8)	1:553:A:MET:HE2	1:556:A:THR:H	23	0.7
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	25	0.7
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG23	2	0.7
(1,916)	1:534:A:GLU:HG2	1:534:A:GLU:HA	25	0.7
(1,753)	1:583:A:ILE:H	1:586:A:GLU:HB2	11	0.7
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	15	0.7
(1,391)	1:518:A:ALA:HB3	1:570:A:GLN:HE21	10	0.7
(1,282)	1:513:A:ALA:HB2	1:549:A:ASN:HA	11	0.7
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD11	19	0.7
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	5	0.7
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG21	24	0.7
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG23	22	0.7
(3,998)	1:572:A:MET:HE3	1:564:A:ALA:H	7	0.69
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG23	20	0.69
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	11	0.69
(3,956)	1:524:A:ILE:HD11	1:542:A:LEU:H	10	0.69
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG13	5	0.69
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG13	13	0.69
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	3	0.69
(3,771)	1:581:A:ALA:HB3	1:590:A:ILE:HG12	19	0.69
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD12	8	0.69
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD12	22	0.69
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD11	23	0.69
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	12	0.69
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG22	23	0.69
(3,168)	1:538:A:ILE:HD13	1:561:A:LEU:HG	18	0.69
(3,168)	1:538:A:ILE:HD11	1:561:A:LEU:HG	19	0.69
(3,45)	1:600:A:GLN:HG2	1:549:A:ASN:H	14	0.69
(3,8)	1:563:A:MET:HE3	1:565:A:TYR:H	19	0.69
(3,8)	1:553:A:MET:HE1	1:556:A:THR:H	22	0.69
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	24	0.69
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	15	0.69
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	25	0.69
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	5	0.69
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	10	0.69
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG22	19	0.69
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	25	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	8	0.69
(1,352)	1:520:A:ARG:HD2	1:520:A:ARG:HB2	19	0.69
(1,352)	1:520:A:ARG:HD2	1:520:A:ARG:HB2	20	0.69
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	6	0.69
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	6	0.69
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	18	0.69
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	22	0.69
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	12	0.69
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	23	0.69
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG12	9	0.68
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	3	0.68
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	11	0.68
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	4	0.68
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	9	0.68
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	16	0.68
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	23	0.68
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD22	6	0.68
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG13	19	0.68
(3,929)	1:514:A:GLN:H	1:546:A:LYS:HE3	13	0.68
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB1	1	0.68
(3,771)	1:581:A:ALA:HB2	1:590:A:ILE:HG12	21	0.68
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD22	24	0.68
(3,742)	1:590:A:ILE:HD12	1:540:A:LEU:HD23	3	0.68
(3,556)	1:570:A:GLN:HG2	1:570:A:GLN:HA	12	0.68
(3,416)	1:572:A:MET:HA	1:576:A:TYR:HE1	2	0.68
(3,416)	1:572:A:MET:HA	1:576:A:TYR:HE1	11	0.68
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	10	0.68
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	9	0.68
(3,8)	1:563:A:MET:HE2	1:565:A:TYR:H	17	0.68
(3,8)	1:553:A:MET:HE2	1:556:A:THR:H	24	0.68
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	8	0.68
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	16	0.68
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	25	0.68
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	10	0.68
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	1	0.68
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	20	0.68
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG22	9	0.68
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	20	0.68
(1,614)	1:552:A:LEU:HD23	1:550:A:TYR:HE1	14	0.68
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD1	24	0.68
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	17	0.68
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	25	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,62)	1:572:A:MET:HE2	1:545:A:GLY:HA2	14	0.68
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	19	0.67
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG21	25	0.67
(3,973)	1:549:A:ASN:H	1:512:A:MET:HE1	15	0.67
(3,964)	1:570:A:GLN:HB2	1:545:A:GLY:H	5	0.67
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	15	0.67
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD12	5	0.67
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	18	0.67
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB1	14	0.67
(3,798)	1:527:A:LEU:HD12	1:537:A:VAL:HG11	12	0.67
(3,771)	1:581:A:ALA:HB1	1:590:A:ILE:HG12	1	0.67
(3,745)	1:537:A:VAL:HG23	1:527:A:LEU:HD13	20	0.67
(3,556)	1:570:A:GLN:HG2	1:570:A:GLN:HA	16	0.67
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	15	0.67
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG22	18	0.67
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	25	0.67
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	19	0.67
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	21	0.67
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	3	0.67
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	23	0.67
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	14	0.67
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	4	0.67
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	11	0.67
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	15	0.67
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG22	25	0.67
(1,391)	1:518:A:ALA:HB1	1:570:A:GLN:HE21	16	0.67
(1,352)	1:520:A:ARG:HD2	1:520:A:ARG:HB2	10	0.67
(1,338)	1:513:A:ALA:HB2	1:515:A:ARG:HG2	7	0.67
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG23	1	0.67
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG23	5	0.67
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG23	8	0.67
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG21	10	0.67
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	13	0.67
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG21	16	0.67
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	20	0.67
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG21	22	0.67
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD11	3	0.67
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	3	0.67
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG22	5	0.67
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG22	25	0.67
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	10	0.67
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	6	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1005)	1:570:A:GLN:H	1:522:A:VAL:HG13	10	0.66
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG23	14	0.66
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	4	0.66
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	16	0.66
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	8	0.66
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG13	18	0.66
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	25	0.66
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB3	17	0.66
(3,753)	1:599:A:LEU:HD13	1:601:A:LEU:HD23	2	0.66
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD12	3	0.66
(3,616)	1:587:A:LYS:HE3	1:582:A:ILE:HD12	16	0.66
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG22	24	0.66
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	15	0.66
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	17	0.66
(3,8)	1:553:A:MET:HE1	1:556:A:THR:H	3	0.66
(3,8)	1:563:A:MET:HE3	1:565:A:TYR:H	9	0.66
(3,8)	1:563:A:MET:HE1	1:565:A:TYR:H	13	0.66
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	4	0.66
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	11	0.66
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	14	0.66
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	15	0.66
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	20	0.66
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	17	0.66
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	3	0.66
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	2	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	4	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	9	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	14	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	15	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	18	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG23	19	0.66
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG21	24	0.66
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD11	24	0.66
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	9	0.66
(1,173)	1:514:A:GLN:HG2	1:600:A:GLN:HE21	6	0.66
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG22	7	0.66
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	10	0.66
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	17	0.66
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG22	19	0.66
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG11	3	0.65
(3,942)	1:536:A:ASP:H	1:540:A:LEU:HD21	22	0.65
(3,926)	1:577:A:GLN:HB3	1:574:A:GLN:HE22	22	0.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	1	0.65
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	23	0.65
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD11	1	0.65
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB2	25	0.65
(3,798)	1:527:A:LEU:HD13	1:537:A:VAL:HG13	7	0.65
(3,752)	1:538:A:ILE:HD13	1:552:A:LEU:HD11	23	0.65
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD11	19	0.65
(3,742)	1:588:A:LEU:HD12	1:590:A:ILE:HD13	16	0.65
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	17	0.65
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	7	0.65
(3,430)	1:551:A:ILE:HG12	1:596:A:TYR:HE1	13	0.65
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE1	25	0.65
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	13	0.65
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	20	0.65
(3,138)	1:514:A:GLN:HB2	1:549:A:ASN:HA	6	0.65
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	16	0.65
(3,83)	1:554:A:LYS:HE3	1:553:A:MET:HB2	22	0.65
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	20	0.65
(3,60)	1:578:A:GLU:HB2	1:574:A:GLN:HA	23	0.65
(3,59)	1:583:A:ILE:HA	1:587:A:LYS:HG3	8	0.65
(3,43)	1:618:A:GLN:HG2	1:616:A:HIS:H	23	0.65
(3,8)	1:553:A:MET:HE3	1:556:A:THR:H	20	0.65
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	1	0.65
(3,7)	1:563:A:MET:HE2	1:542:A:LEU:H	7	0.65
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	14	0.65
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	11	0.65
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	6	0.65
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD22	13	0.65
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD22	18	0.65
(1,614)	1:552:A:LEU:HD23	1:550:A:TYR:HE1	5	0.65
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	2	0.65
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	6	0.65
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG23	11	0.65
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	12	0.65
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	12	0.65
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	20	0.65
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	13	0.65
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG12	25	0.64
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	12	0.64
(3,948)	1:539:A:ASN:HD22	1:583:A:ILE:HD11	21	0.64
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG22	19	0.64
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG22	24	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG11	14	0.64
(3,929)	1:514:A:GLN:H	1:606:A:LYS:HE2	9	0.64
(3,922)	1:615:A:ILE:HD12	1:615:A:ILE:H	16	0.64
(3,853)	1:527:A:LEU:HD22	1:559:A:ALA:HB3	7	0.64
(3,815)	1:559:A:ALA:HB1	1:552:A:LEU:HG	5	0.64
(3,796)	1:590:A:ILE:HG23	1:522:A:VAL:HG12	17	0.64
(3,752)	1:538:A:ILE:HD11	1:552:A:LEU:HD11	22	0.64
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	19	0.64
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	2	0.64
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	2	0.64
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG22	11	0.64
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	13	0.64
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	6	0.64
(3,416)	1:572:A:MET:HA	1:576:A:TYR:HE1	21	0.64
(3,415)	1:563:A:MET:HE1	1:576:A:TYR:HE1	13	0.64
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	17	0.64
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	3	0.64
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	8	0.64
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	11	0.64
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	19	0.64
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	20	0.64
(3,168)	1:538:A:ILE:HD11	1:561:A:LEU:HG	1	0.64
(3,60)	1:578:A:GLU:HB2	1:574:A:GLN:HA	15	0.64
(3,60)	1:592:A:MET:HB3	1:570:A:GLN:HA	21	0.64
(3,8)	1:563:A:MET:HE3	1:565:A:TYR:H	15	0.64
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	24	0.64
(1,1364)	1:529:A:GLU:H	1:529:A:GLU:HB2	3	0.64
(1,1296)	1:611:A:ILE:H	1:613:A:GLN:HG3	10	0.64
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	8	0.64
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	21	0.64
(1,352)	1:520:A:ARG:HD2	1:520:A:ARG:HB2	21	0.64
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG23	3	0.64
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG23	17	0.64
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	21	0.64
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG23	23	0.64
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG21	25	0.64
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD12	13	0.64
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD12	14	0.64
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	6	0.64
(1,237)	1:514:A:GLN:HB3	1:517:A:GLY:HA2	24	0.64
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	23	0.64
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	11	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG21	16	0.64
(1,62)	1:572:A:MET:HE2	1:545:A:GLY:HA2	9	0.64
(1,62)	1:572:A:MET:HE1	1:545:A:GLY:HA2	15	0.64
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB2	5	0.63
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	12	0.63
(3,855)	1:513:A:ALA:HB2	1:515:A:ARG:HG3	20	0.63
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB3	16	0.63
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG13	1	0.63
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD22	2	0.63
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD12	5	0.63
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD13	19	0.63
(3,771)	1:573:A:VAL:HG13	1:590:A:ILE:HG22	4	0.63
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD23	23	0.63
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD12	9	0.63
(3,708)	1:615:A:ILE:HA	1:618:A:GLN:HB2	14	0.63
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG22	3	0.63
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD23	11	0.63
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	22	0.63
(3,416)	1:572:A:MET:HA	1:576:A:TYR:HE1	17	0.63
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	12	0.63
(3,174)	1:590:A:ILE:HD13	1:587:A:LYS:HA	8	0.63
(3,87)	1:552:A:LEU:HD12	1:554:A:LYS:HE3	22	0.63
(1,1761)	1:610:A:ALA:HB3	1:611:A:ILE:H	9	0.63
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	8	0.63
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	2	0.63
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	17	0.63
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	3	0.63
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	21	0.63
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	22	0.63
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	13	0.63
(1,713)	1:549:A:ASN:HB2	1:599:A:LEU:HD11	3	0.63
(1,352)	1:520:A:ARG:HD2	1:520:A:ARG:HB2	7	0.63
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD11	21	0.63
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG23	9	0.63
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	3	0.63
(1,143)	1:554:A:LYS:HE2	1:533:A:THR:HA	12	0.63
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	12	0.63
(1,62)	1:572:A:MET:HE2	1:545:A:GLY:HA2	7	0.63
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	13	0.62
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	14	0.62
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	22	0.62
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD11	18	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	2	0.62
(3,796)	1:590:A:ILE:HG21	1:522:A:VAL:HG11	5	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD23	3	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD12	7	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD22	8	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD23	15	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD23	16	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD23	17	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD11	18	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD13	20	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD13	21	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD12	22	0.62
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD22	24	0.62
(3,758)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	13	0.62
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD11	11	0.62
(3,709)	1:592:A:MET:HE1	1:570:A:GLN:HA	1	0.62
(3,649)	1:583:A:ILE:HG23	1:531:A:SER:HB3	2	0.62
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	4	0.62
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE2	3	0.62
(3,413)	1:613:A:GLN:HB3	1:565:A:TYR:HE2	23	0.62
(3,390)	1:540:A:LEU:HD22	1:576:A:TYR:HE2	25	0.62
(3,388)	1:538:A:ILE:HG21	1:550:A:TYR:HE2	14	0.62
(3,138)	1:514:A:GLN:HB2	1:549:A:ASN:HA	11	0.62
(3,83)	1:554:A:LYS:HE3	1:553:A:MET:HB2	19	0.62
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	16	0.62
(3,7)	1:563:A:MET:HE3	1:542:A:LEU:H	8	0.62
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	9	0.62
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	13	0.62
(1,1561)	1:566:A:THR:HG22	1:570:A:GLN:HE22	23	0.62
(1,1364)	1:529:A:GLU:H	1:529:A:GLU:HB2	1	0.62
(1,1127)	1:523:A:HIS:H	1:591:A:ARG:HG3	21	0.62
(1,392)	1:518:A:ALA:HB2	1:570:A:GLN:HE22	18	0.62
(1,391)	1:518:A:ALA:HB2	1:570:A:GLN:HE21	13	0.62
(1,352)	1:520:A:ARG:HD2	1:520:A:ARG:HB2	25	0.62
(1,272)	1:551:A:ILE:HG13	1:551:A:ILE:HG22	7	0.62
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD12	2	0.62
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD11	10	0.62
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD12	22	0.62
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD12	25	0.62
(1,262)	1:552:A:LEU:HD11	1:554:A:LYS:HE3	10	0.62
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG23	1	0.62
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	1	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG22	21	0.62
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	11	0.62
(1,62)	1:572:A:MET:HE1	1:545:A:GLY:HA2	13	0.62
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	14	0.61
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG12	2	0.61
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	8	0.61
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	15	0.61
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG22	7	0.61
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG13	10	0.61
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG12	20	0.61
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG11	23	0.61
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	9	0.61
(3,825)	1:524:A:ILE:HG21	1:559:A:ALA:HB3	23	0.61
(3,796)	1:590:A:ILE:HG21	1:524:A:ILE:HG12	16	0.61
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD13	1	0.61
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD21	4	0.61
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD11	6	0.61
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD23	9	0.61
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD22	12	0.61
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD22	14	0.61
(3,771)	1:573:A:VAL:HG13	1:590:A:ILE:HG22	24	0.61
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	17	0.61
(3,649)	1:583:A:ILE:HG22	1:531:A:SER:HB3	18	0.61
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	14	0.61
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	16	0.61
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	25	0.61
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	12	0.61
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	18	0.61
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	19	0.61
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	20	0.61
(1,1364)	1:529:A:GLU:H	1:529:A:GLU:HB2	11	0.61
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	21	0.61
(1,1302)	1:513:A:ALA:HB3	1:514:A:GLN:H	5	0.61
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	20	0.61
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG13	21	0.61
(1,1217)	1:568:A:ALA:H	1:516:A:LYS:HB3	14	0.61
(1,1130)	1:529:A:GLU:H	1:532:A:CYS:HB3	7	0.61
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	12	0.61
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	2	0.61
(1,836)	1:594:A:THR:HA	1:594:A:THR:HG23	13	0.61
(1,391)	1:518:A:ALA:HB3	1:570:A:GLN:HE21	17	0.61
(1,297)	1:612:A:ILE:HD11	1:610:A:ALA:HB1	8	0.61

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD12	6	0.61
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	23	0.61
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	3	0.61
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	7	0.61
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	13	0.61
(1,119)	1:620:A:GLU:HA	1:612:A:ILE:HG22	15	0.61
(1,108)	1:574:A:GLN:HA	1:578:A:GLU:HG3	15	0.61
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG21	2	0.61
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG21	8	0.61
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	20	0.61
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	16	0.61
(1,80)	1:514:A:GLN:HB2	1:518:A:ALA:H	6	0.61
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG13	14	0.6
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	1	0.6
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	15	0.6
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	19	0.6
(3,913)	1:556:A:THR:H	1:528:A:PRO:HD2	16	0.6
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	18	0.6
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	21	0.6
(3,895)	1:520:A:ARG:H	1:516:A:LYS:HE3	22	0.6
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD11	8	0.6
(3,855)	1:513:A:ALA:HB3	1:515:A:ARG:HG2	14	0.6
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	10	0.6
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD12	25	0.6
(3,752)	1:538:A:ILE:HD13	1:552:A:LEU:HD13	24	0.6
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD12	15	0.6
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	8	0.6
(3,709)	1:592:A:MET:HE2	1:570:A:GLN:HA	9	0.6
(3,709)	1:592:A:MET:HE2	1:570:A:GLN:HA	10	0.6
(3,708)	1:613:A:GLN:HB2	1:615:A:ILE:HA	19	0.6
(3,664)	1:587:A:LYS:HE3	1:582:A:ILE:HD12	16	0.6
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	9	0.6
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB3	6	0.6
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	20	0.6
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	25	0.6
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	16	0.6
(3,201)	1:595:A:ARG:HD2	1:596:A:TYR:HE2	16	0.6
(3,176)	1:583:A:ILE:HG21	1:586:A:GLU:HB2	19	0.6
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	2	0.6
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	15	0.6
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	22	0.6
(3,70)	1:598:A:GLU:HA	1:548:A:THR:HG22	24	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,8)	1:563:A:MET:HE3	1:565:A:TYR:H	21	0.6
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	6	0.6
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	9	0.6
(1,1364)	1:529:A:GLU:H	1:529:A:GLU:HB2	8	0.6
(1,1364)	1:529:A:GLU:H	1:529:A:GLU:HB2	18	0.6
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	4	0.6
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	8	0.6
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	6	0.6
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	8	0.6
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	15	0.6
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	17	0.6
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB1	23	0.6
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	10	0.6
(1,836)	1:594:A:THR:HA	1:594:A:THR:HG22	8	0.6
(1,836)	1:594:A:THR:HA	1:594:A:THR:HG23	17	0.6
(1,614)	1:552:A:LEU:HD22	1:550:A:TYR:HE1	6	0.6
(1,614)	1:552:A:LEU:HD22	1:550:A:TYR:HE1	12	0.6
(1,614)	1:552:A:LEU:HD23	1:550:A:TYR:HE1	22	0.6
(1,338)	1:513:A:ALA:HB1	1:515:A:ARG:HG2	15	0.6
(1,338)	1:513:A:ALA:HB1	1:515:A:ARG:HG2	19	0.6
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD11	19	0.6
(1,282)	1:513:A:ALA:HB3	1:549:A:ASN:HA	6	0.6
(1,237)	1:514:A:GLN:HB3	1:517:A:GLY:HA2	21	0.6
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	1	0.6
(1,179)	1:610:A:ALA:HB2	1:621:A:ARG:H	19	0.6
(1,173)	1:514:A:GLN:HG2	1:600:A:GLN:HE21	12	0.6
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	12	0.6
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	18	0.6
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	19	0.6
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG23	1	0.6
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	22	0.6
(3,969)	1:562:A:GLU:HB3	1:547:A:VAL:H	20	0.59
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	9	0.59
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	13	0.59
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD22	17	0.59
(3,939)	1:527:A:LEU:HD22	1:533:A:THR:H	13	0.59
(3,939)	1:527:A:LEU:HD23	1:533:A:THR:H	21	0.59
(3,924)	1:602:A:LYS:H	1:601:A:LEU:HD11	24	0.59
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	17	0.59
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	8	0.59
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	18	0.59
(3,796)	1:590:A:ILE:HG23	1:522:A:VAL:HG12	14	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD11	11	0.59
(3,742)	1:590:A:ILE:HD11	1:540:A:LEU:HD23	20	0.59
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	9	0.59
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	13	0.59
(3,416)	1:572:A:MET:HA	1:576:A:TYR:HE1	18	0.59
(3,415)	1:563:A:MET:HE3	1:576:A:TYR:HE1	9	0.59
(3,395)	1:516:A:LYS:HD2	1:616:A:HIS:HD2	12	0.59
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	9	0.59
(3,174)	1:590:A:ILE:HD11	1:587:A:LYS:HA	15	0.59
(3,168)	1:538:A:ILE:HD11	1:561:A:LEU:HG	10	0.59
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	16	0.59
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	4	0.59
(3,112)	1:561:A:LEU:HB3	1:537:A:VAL:HG11	4	0.59
(3,8)	1:553:A:MET:HE1	1:556:A:THR:H	11	0.59
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG23	1	0.59
(1,1772)	1:612:A:ILE:HG21	1:612:A:ILE:H	24	0.59
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	5	0.59
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	10	0.59
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	23	0.59
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	21	0.59
(1,1364)	1:529:A:GLU:H	1:529:A:GLU:HB2	21	0.59
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	17	0.59
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	20	0.59
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	3	0.59
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	10	0.59
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	22	0.59
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	21	0.59
(1,492)	1:572:A:MET:HG3	1:573:A:VAL:H	22	0.59
(1,392)	1:518:A:ALA:HB2	1:570:A:GLN:HE22	12	0.59
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD11	13	0.59
(1,282)	1:513:A:ALA:HB2	1:549:A:ASN:HA	4	0.59
(1,267)	1:583:A:ILE:HG22	1:528:A:PRO:HD3	14	0.59
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	7	0.59
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD12	14	0.59
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	11	0.59
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	10	0.59
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG21	14	0.59
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	8	0.59
(1,62)	1:572:A:MET:HE1	1:545:A:GLY:HA2	4	0.59
(1,62)	1:572:A:MET:HE3	1:545:A:GLY:HA2	19	0.59
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	2	0.59
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	17	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	6	0.58
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	6	0.58
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	25	0.58
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG11	16	0.58
(3,927)	1:574:A:GLN:HE22	1:570:A:GLN:HB3	22	0.58
(3,853)	1:527:A:LEU:HD22	1:559:A:ALA:HB3	9	0.58
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB1	11	0.58
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD13	10	0.58
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD13	23	0.58
(3,771)	1:573:A:VAL:HG13	1:590:A:ILE:HG23	12	0.58
(3,752)	1:538:A:ILE:HD11	1:552:A:LEU:HD11	25	0.58
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD13	16	0.58
(3,709)	1:592:A:MET:HE1	1:570:A:GLN:HA	11	0.58
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	15	0.58
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	23	0.58
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	9	0.58
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	15	0.58
(3,176)	1:583:A:ILE:HG22	1:586:A:GLU:HB2	20	0.58
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	22	0.58
(3,134)	1:613:A:GLN:HB2	1:620:A:GLU:HA	10	0.58
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	21	0.58
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	9	0.58
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	10	0.58
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	20	0.58
(1,1691)	1:525:A:CYS:H	1:589:A:LEU:HD13	17	0.58
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	5	0.58
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	22	0.58
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	19	0.58
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	18	0.58
(1,1095)	1:560:A:PHE:HD1	1:596:A:TYR:HD1	7	0.58
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	7	0.58
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	23	0.58
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	3	0.58
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	25	0.58
(1,916)	1:534:A:GLU:HG2	1:534:A:GLU:HA	13	0.58
(1,836)	1:594:A:THR:HA	1:594:A:THR:HG22	10	0.58
(1,836)	1:594:A:THR:HA	1:594:A:THR:HG22	20	0.58
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	12	0.58
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	24	0.58
(1,297)	1:612:A:ILE:HD12	1:610:A:ALA:HB1	11	0.58
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD11	17	0.58
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	22	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	21	0.58
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	18	0.58
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	17	0.57
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	9	0.57
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD23	24	0.57
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	2	0.57
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB1	8	0.57
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB3	22	0.57
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	4	0.57
(3,796)	1:590:A:ILE:HG22	1:524:A:ILE:HG12	21	0.57
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD21	10	0.57
(3,771)	1:573:A:VAL:HG11	1:590:A:ILE:HG22	5	0.57
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD12	24	0.57
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	22	0.57
(3,709)	1:592:A:MET:HE1	1:570:A:GLN:HA	25	0.57
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	3	0.57
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB1	12	0.57
(3,557)	1:563:A:MET:HB3	1:569:A:ALA:HA	15	0.57
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	18	0.57
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	23	0.57
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD21	24	0.57
(3,176)	1:583:A:ILE:HG22	1:586:A:GLU:HB2	5	0.57
(3,135)	1:514:A:GLN:HB2	1:513:A:ALA:HA	11	0.57
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	6	0.57
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	24	0.57
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	5	0.57
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB3	22	0.57
(1,836)	1:594:A:THR:HA	1:594:A:THR:HG23	16	0.57
(1,695)	1:560:A:PHE:HD2	1:596:A:TYR:HE2	22	0.57
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE3	23	0.57
(1,309)	1:524:A:ILE:HG21	1:559:A:ALA:HB2	12	0.57
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD11	8	0.57
(1,282)	1:513:A:ALA:HB1	1:549:A:ASN:HA	20	0.57
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	2	0.57
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	20	0.57
(1,62)	1:572:A:MET:HE1	1:545:A:GLY:HA2	3	0.57
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	7	0.56
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	5	0.56
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG23	20	0.56
(3,922)	1:615:A:ILE:HD12	1:615:A:ILE:H	18	0.56
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	4	0.56
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB3	19	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD22	19	0.56
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG21	14	0.56
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	20	0.56
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	1	0.56
(3,415)	1:563:A:MET:HE3	1:576:A:TYR:HE1	4	0.56
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	25	0.56
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	22	0.56
(3,143)	1:553:A:MET:HG2	1:551:A:ILE:HG13	9	0.56
(3,8)	1:553:A:MET:HE3	1:556:A:THR:H	25	0.56
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	1	0.56
(1,1772)	1:612:A:ILE:HG21	1:612:A:ILE:H	11	0.56
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	15	0.56
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	17	0.56
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	23	0.56
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	25	0.56
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	7	0.56
(1,831)	1:572:A:MET:HE2	1:563:A:MET:HA	15	0.56
(1,808)	1:588:A:LEU:HA	1:526:A:ASN:HB3	2	0.56
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD12	9	0.56
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD13	23	0.56
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD13	24	0.56
(1,695)	1:560:A:PHE:HD1	1:596:A:TYR:HE1	6	0.56
(1,392)	1:518:A:ALA:HB1	1:570:A:GLN:HE22	11	0.56
(1,391)	1:518:A:ALA:HB1	1:570:A:GLN:HE21	5	0.56
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE3	24	0.56
(1,352)	1:520:A:ARG:HD2	1:520:A:ARG:HB2	4	0.56
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	23	0.56
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD11	15	0.56
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD11	18	0.56
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD11	16	0.56
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	9	0.56
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	23	0.56
(1,249)	1:620:A:GLU:HB2	1:612:A:ILE:HG12	18	0.56
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG21	23	0.56
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	7	0.56
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG22	13	0.55
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	9	0.55
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	24	0.55
(3,964)	1:570:A:GLN:HB2	1:545:A:GLY:H	22	0.55
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG23	16	0.55
(3,942)	1:536:A:ASP:H	1:537:A:VAL:HG12	12	0.55
(3,929)	1:514:A:GLN:H	1:516:A:LYS:HE2	5	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,929)	1:514:A:GLN:H	1:546:A:LYS:HE3	12	0.55
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	21	0.55
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB3	3	0.55
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB3	15	0.55
(3,796)	1:590:A:ILE:HG22	1:522:A:VAL:HG12	1	0.55
(3,796)	1:590:A:ILE:HG22	1:522:A:VAL:HG13	6	0.55
(3,796)	1:590:A:ILE:HG21	1:524:A:ILE:HG12	9	0.55
(3,796)	1:590:A:ILE:HG22	1:524:A:ILE:HG12	18	0.55
(3,796)	1:590:A:ILE:HG22	1:524:A:ILE:HG12	23	0.55
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD22	6	0.55
(3,782)	1:542:A:LEU:HG	1:542:A:LEU:HD13	13	0.55
(3,742)	1:590:A:ILE:HD13	1:540:A:LEU:HD21	9	0.55
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	8	0.55
(3,587)	1:604:A:PRO:HD3	1:601:A:LEU:HD13	17	0.55
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	14	0.55
(3,176)	1:583:A:ILE:HG21	1:586:A:GLU:HB2	17	0.55
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	21	0.55
(3,160)	1:540:A:LEU:HB3	1:524:A:ILE:HD12	13	0.55
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	1	0.55
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	3	0.55
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	4	0.55
(1,1772)	1:612:A:ILE:HG21	1:612:A:ILE:H	7	0.55
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	24	0.55
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	7	0.55
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	13	0.55
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	25	0.55
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG13	3	0.55
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	7	0.55
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	19	0.55
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG22	10	0.55
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	13	0.55
(1,831)	1:572:A:MET:HE1	1:563:A:MET:HA	24	0.55
(1,719)	1:599:A:LEU:HD21	1:599:A:LEU:HD11	1	0.55
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD13	6	0.55
(1,719)	1:599:A:LEU:HD21	1:599:A:LEU:HD13	17	0.55
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD12	18	0.55
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	21	0.55
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD12	14	0.55
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	20	0.55
(1,247)	1:606:A:LYS:HB3	1:611:A:ILE:HD12	25	0.55
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	22	0.55
(1,97)	1:551:A:ILE:HB	1:521:A:VAL:HG22	6	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG13	18	0.54
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG13	20	0.54
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	5	0.54
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	4	0.54
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	22	0.54
(3,956)	1:524:A:ILE:HD12	1:542:A:LEU:H	21	0.54
(3,929)	1:514:A:GLN:H	1:606:A:LYS:HE3	4	0.54
(3,922)	1:615:A:ILE:HD11	1:615:A:ILE:H	24	0.54
(3,905)	1:526:A:ASN:H	1:587:A:LYS:HA	1	0.54
(3,855)	1:602:A:LYS:HD2	1:603:A:LYS:HG3	13	0.54
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	23	0.54
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	19	0.54
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	22	0.54
(3,796)	1:590:A:ILE:HG21	1:524:A:ILE:HG12	11	0.54
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD22	14	0.54
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD22	20	0.54
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD21	24	0.54
(3,742)	1:588:A:LEU:HD12	1:590:A:ILE:HD11	4	0.54
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	2	0.54
(3,708)	1:615:A:ILE:HA	1:618:A:GLN:HB2	24	0.54
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	4	0.54
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	15	0.54
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	19	0.54
(3,557)	1:563:A:MET:HB3	1:569:A:ALA:HA	3	0.54
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE2	4	0.54
(3,415)	1:563:A:MET:HE3	1:576:A:TYR:HE1	15	0.54
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	25	0.54
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	12	0.54
(3,8)	1:563:A:MET:HE3	1:565:A:TYR:H	8	0.54
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	2	0.54
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	5	0.54
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	14	0.54
(1,1772)	1:612:A:ILE:HG21	1:612:A:ILE:H	16	0.54
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	19	0.54
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	14	0.54
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	24	0.54
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	16	0.54
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	24	0.54
(1,1135)	1:533:A:THR:HG21	1:532:A:CYS:H	22	0.54
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	1	0.54
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	17	0.54
(1,831)	1:572:A:MET:HE2	1:563:A:MET:HA	13	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD11	7	0.54
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	13	0.54
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE1	6	0.54
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	21	0.54
(1,338)	1:513:A:ALA:HB3	1:515:A:ARG:HG2	9	0.54
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	8	0.54
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD13	24	0.54
(1,267)	1:583:A:ILE:HG22	1:528:A:PRO:HD3	20	0.54
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	1	0.54
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD12	19	0.54
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	15	0.54
(1,80)	1:514:A:GLN:HB3	1:518:A:ALA:H	10	0.54
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	3	0.54
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	9	0.53
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG13	19	0.53
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG12	22	0.53
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	3	0.53
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	15	0.53
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	9	0.53
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	18	0.53
(3,853)	1:527:A:LEU:HD22	1:559:A:ALA:HB2	5	0.53
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB2	6	0.53
(3,824)	1:589:A:LEU:HD23	1:589:A:LEU:HG	16	0.53
(3,798)	1:527:A:LEU:HD11	1:537:A:VAL:HG12	2	0.53
(3,796)	1:590:A:ILE:HG23	1:522:A:VAL:HG11	12	0.53
(3,796)	1:590:A:ILE:HG21	1:524:A:ILE:HG12	20	0.53
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD21	8	0.53
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD23	16	0.53
(3,771)	1:573:A:VAL:HG13	1:590:A:ILE:HG23	17	0.53
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD22	1	0.53
(3,753)	1:599:A:LEU:HD11	1:601:A:LEU:HD22	17	0.53
(3,751)	1:599:A:LEU:HD12	1:521:A:VAL:HG12	5	0.53
(3,742)	1:590:A:ILE:HD12	1:540:A:LEU:HD23	2	0.53
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD13	8	0.53
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	25	0.53
(3,557)	1:563:A:MET:HB3	1:569:A:ALA:HA	19	0.53
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	7	0.53
(3,415)	1:563:A:MET:HE3	1:576:A:TYR:HE1	3	0.53
(3,176)	1:583:A:ILE:HG22	1:586:A:GLU:HB2	10	0.53
(3,174)	1:590:A:ILE:HD13	1:587:A:LYS:HA	18	0.53
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	9	0.53
(3,13)	1:572:A:MET:HE2	1:564:A:ALA:H	16	0.53

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,8)	1:563:A:MET:HE2	1:565:A:TYR:H	7	0.53
(1,1772)	1:612:A:ILE:HG21	1:612:A:ILE:H	3	0.53
(1,1772)	1:612:A:ILE:HG21	1:612:A:ILE:H	6	0.53
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	18	0.53
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	16	0.53
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	23	0.53
(1,1691)	1:525:A:CYS:H	1:589:A:LEU:HD12	22	0.53
(1,1633)	1:577:A:GLN:HB3	1:578:A:GLU:H	21	0.53
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	7	0.53
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	23	0.53
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	24	0.53
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	1	0.53
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	2	0.53
(1,1191)	1:529:A:GLU:HG2	1:557:A:ASN:H	5	0.53
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	12	0.53
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG21	17	0.53
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG22	20	0.53
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB1	14	0.53
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	17	0.53
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD21	15	0.53
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD12	15	0.53
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD11	19	0.53
(1,392)	1:518:A:ALA:HB2	1:570:A:GLN:HE22	25	0.53
(1,391)	1:518:A:ALA:HB3	1:570:A:GLN:HE21	8	0.53
(1,341)	1:573:A:VAL:HG12	1:589:A:LEU:HG	9	0.53
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	18	0.53
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	24	0.53
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD13	11	0.53
(1,282)	1:513:A:ALA:HB3	1:549:A:ASN:HA	2	0.53
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD11	18	0.53
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	11	0.53
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	5	0.53
(1,79)	1:546:A:LYS:HD3	1:547:A:VAL:H	13	0.53
(1,79)	1:546:A:LYS:HD3	1:547:A:VAL:H	17	0.53
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	5	0.53
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE2	16	0.53
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	4	0.52
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG23	10	0.52
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG23	13	0.52
(3,929)	1:514:A:GLN:H	1:516:A:LYS:HE3	21	0.52
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	24	0.52
(3,922)	1:615:A:ILE:HD11	1:615:A:ILE:H	20	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	12	0.52
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	22	0.52
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB2	13	0.52
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB1	20	0.52
(3,853)	1:527:A:LEU:HD22	1:559:A:ALA:HB1	24	0.52
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB1	1	0.52
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	17	0.52
(3,825)	1:524:A:ILE:HG21	1:559:A:ALA:HB1	20	0.52
(3,796)	1:590:A:ILE:HG23	1:524:A:ILE:HG12	25	0.52
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG11	3	0.52
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD12	13	0.52
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	7	0.52
(3,709)	1:592:A:MET:HE3	1:570:A:GLN:HA	24	0.52
(3,557)	1:563:A:MET:HB3	1:569:A:ALA:HA	22	0.52
(3,430)	1:521:A:VAL:HG12	1:596:A:TYR:HE1	2	0.52
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE1	14	0.52
(3,415)	1:563:A:MET:HE3	1:576:A:TYR:HE1	6	0.52
(3,390)	1:540:A:LEU:HD21	1:576:A:TYR:HE2	1	0.52
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	6	0.52
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	13	0.52
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	2	0.52
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	4	0.52
(3,168)	1:538:A:ILE:HD12	1:561:A:LEU:HG	25	0.52
(3,37)	1:610:A:ALA:HB3	1:610:A:ALA:H	5	0.52
(3,13)	1:572:A:MET:HE3	1:564:A:ALA:H	5	0.52
(3,8)	1:563:A:MET:HE1	1:565:A:TYR:H	1	0.52
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	2	0.52
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	22	0.52
(1,1761)	1:610:A:ALA:HB2	1:611:A:ILE:H	17	0.52
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	12	0.52
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	13	0.52
(1,991)	1:599:A:LEU:HD11	1:521:A:VAL:HG22	11	0.52
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB1	2	0.52
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB3	3	0.52
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	18	0.52
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	22	0.52
(1,831)	1:572:A:MET:HE2	1:563:A:MET:HA	3	0.52
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	18	0.52
(1,713)	1:549:A:ASN:HB2	1:599:A:LEU:HD13	15	0.52
(1,492)	1:572:A:MET:HG3	1:573:A:VAL:H	5	0.52
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE3	22	0.52
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	6	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	8	0.52
(1,341)	1:573:A:VAL:HG12	1:589:A:LEU:HG	19	0.52
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	7	0.52
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG12	1	0.52
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD12	16	0.52
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD22	1	0.52
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	13	0.52
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	16	0.52
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	4	0.52
(1,119)	1:620:A:GLU:HA	1:612:A:ILE:HG22	22	0.52
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	6	0.52
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	13	0.52
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	18	0.52
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE2	8	0.52
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE3	12	0.51
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	14	0.51
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	7	0.51
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	12	0.51
(3,910)	1:515:A:ARG:H	1:616:A:HIS:HB3	16	0.51
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	6	0.51
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD12	23	0.51
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB3	23	0.51
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	5	0.51
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	11	0.51
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	14	0.51
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	16	0.51
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	25	0.51
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD22	22	0.51
(3,771)	1:573:A:VAL:HG13	1:590:A:ILE:HG21	25	0.51
(3,759)	1:586:A:GLU:HB2	1:588:A:LEU:HD22	11	0.51
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD11	5	0.51
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	15	0.51
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	13	0.51
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG12	22	0.51
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	12	0.51
(3,416)	1:572:A:MET:HA	1:576:A:TYR:HE1	5	0.51
(3,415)	1:563:A:MET:HE3	1:576:A:TYR:HE1	12	0.51
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	17	0.51
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	3	0.51
(3,51)	1:516:A:LYS:HB2	1:519:A:GLY:HA3	6	0.51
(3,51)	1:516:A:LYS:HB2	1:519:A:GLY:HA3	20	0.51
(3,13)	1:572:A:MET:HE3	1:564:A:ALA:H	22	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1686)	1:588:A:LEU:HD22	1:583:A:ILE:H	14	0.51
(1,1569)	1:568:A:ALA:H	1:567:A:GLU:HG3	9	0.51
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	4	0.51
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	4	0.51
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	2	0.51
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	13	0.51
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB1	4	0.51
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	1	0.51
(1,831)	1:572:A:MET:HE2	1:563:A:MET:HA	8	0.51
(1,831)	1:572:A:MET:HE1	1:563:A:MET:HA	20	0.51
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD13	2	0.51
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE2	20	0.51
(1,341)	1:573:A:VAL:HG12	1:589:A:LEU:HG	7	0.51
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD11	8	0.51
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD11	16	0.51
(1,265)	1:554:A:LYS:HG3	1:552:A:LEU:HD12	23	0.51
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD12	4	0.51
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	15	0.51
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	23	0.51
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	25	0.51
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	17	0.51
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	24	0.51
(1,16)	1:579:A:LYS:HB3	1:575:A:TYR:HE1	1	0.51
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	25	0.5
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	7	0.5
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	11	0.5
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	21	0.5
(3,939)	1:527:A:LEU:HD21	1:533:A:THR:H	9	0.5
(3,939)	1:527:A:LEU:HD23	1:533:A:THR:H	15	0.5
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	14	0.5
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	12	0.5
(3,796)	1:590:A:ILE:HG23	1:524:A:ILE:HG12	3	0.5
(3,796)	1:590:A:ILE:HG23	1:524:A:ILE:HG12	10	0.5
(3,796)	1:590:A:ILE:HG21	1:522:A:VAL:HG12	13	0.5
(3,796)	1:590:A:ILE:HG21	1:524:A:ILE:HG12	24	0.5
(3,771)	1:581:A:ALA:HB1	1:590:A:ILE:HG12	13	0.5
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG13	17	0.5
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD11	5	0.5
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	13	0.5
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD22	15	0.5
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	17	0.5
(3,593)	1:528:A:PRO:HD2	1:583:A:ILE:HD12	14	0.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	25	0.5
(3,431)	1:524:A:ILE:HD13	1:523:A:HIS:HD2	8	0.5
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	17	0.5
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	4	0.5
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	21	0.5
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	13	0.5
(1,1772)	1:612:A:ILE:HG22	1:612:A:ILE:H	21	0.5
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	9	0.5
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	4	0.5
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	2	0.5
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	14	0.5
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	15	0.5
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	20	0.5
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	11	0.5
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	2	0.5
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	16	0.5
(1,831)	1:572:A:MET:HE1	1:563:A:MET:HA	6	0.5
(1,831)	1:572:A:MET:HE2	1:563:A:MET:HA	11	0.5
(1,764)	1:558:A:GLN:HE22	1:595:A:ARG:HD2	12	0.5
(1,728)	1:583:A:ILE:HG23	1:584:A:ASN:HD21	12	0.5
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD13	10	0.5
(1,713)	1:549:A:ASN:HB2	1:599:A:LEU:HD12	20	0.5
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE3	21	0.5
(1,341)	1:573:A:VAL:HG12	1:589:A:LEU:HG	15	0.5
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD13	6	0.5
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	11	0.5
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	13	0.5
(1,229)	1:528:A:PRO:HB3	1:531:A:SER:HB3	5	0.5
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	11	0.5
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	16	0.49
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	20	0.49
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	19	0.49
(3,939)	1:527:A:LEU:HD22	1:533:A:THR:H	19	0.49
(3,796)	1:590:A:ILE:HG21	1:522:A:VAL:HG12	8	0.49
(3,796)	1:590:A:ILE:HG21	1:522:A:VAL:HG11	15	0.49
(3,796)	1:590:A:ILE:HG23	1:522:A:VAL:HG12	19	0.49
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD23	11	0.49
(3,777)	1:590:A:ILE:HB	1:590:A:ILE:HG22	16	0.49
(3,771)	1:573:A:VAL:HG13	1:590:A:ILE:HG23	2	0.49
(3,752)	1:538:A:ILE:HD12	1:552:A:LEU:HD13	9	0.49
(3,743)	1:599:A:LEU:HD13	1:551:A:ILE:HG22	2	0.49
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG23	10	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	7	0.49
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	1	0.49
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	16	0.49
(3,388)	1:538:A:ILE:HG21	1:550:A:TYR:HE2	5	0.49
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB3	13	0.49
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB2	18	0.49
(3,161)	1:553:A:MET:HE1	1:551:A:ILE:HG23	8	0.49
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	15	0.49
(3,43)	1:618:A:GLN:HG2	1:616:A:HIS:H	19	0.49
(3,37)	1:610:A:ALA:HB3	1:610:A:ALA:H	19	0.49
(3,8)	1:553:A:MET:HE3	1:556:A:THR:H	2	0.49
(3,8)	1:553:A:MET:HE2	1:556:A:THR:H	12	0.49
(1,1795)	1:621:A:ARG:H	1:621:A:ARG:HG2	21	0.49
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	12	0.49
(1,1772)	1:612:A:ILE:HG21	1:612:A:ILE:H	23	0.49
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	25	0.49
(1,1685)	1:588:A:LEU:HD12	1:581:A:ALA:H	20	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	1	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	3	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	4	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	5	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	6	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	7	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	9	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	11	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	13	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	17	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	19	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	21	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	22	0.49
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	24	0.49
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	14	0.49
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	5	0.49
(1,1135)	1:533:A:THR:HG21	1:532:A:CYS:H	8	0.49
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	15	0.49
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB3	5	0.49
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	21	0.49
(1,764)	1:558:A:GLN:HE22	1:595:A:ARG:HD3	10	0.49
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD23	5	0.49
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD11	8	0.49
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD13	12	0.49
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD22	24	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,695)	1:560:A:PHE:HD2	1:596:A:TYR:HE2	25	0.49
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE2	15	0.49
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	25	0.49
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	6	0.49
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	18	0.49
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	23	0.49
(1,310)	1:524:A:ILE:HG21	1:590:A:ILE:HD12	22	0.49
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG11	9	0.49
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD13	20	0.49
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	10	0.49
(1,119)	1:620:A:GLU:HA	1:612:A:ILE:HG22	6	0.49
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	22	0.49
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE1	6	0.49
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE2	15	0.49
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	21	0.49
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	12	0.48
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG21	2	0.48
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD22	10	0.48
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD22	21	0.48
(3,796)	1:590:A:ILE:HG22	1:522:A:VAL:HG11	4	0.48
(3,796)	1:590:A:ILE:HG21	1:524:A:ILE:HG12	7	0.48
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD21	9	0.48
(3,777)	1:590:A:ILE:HB	1:590:A:ILE:HG21	3	0.48
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD21	5	0.48
(3,777)	1:590:A:ILE:HB	1:590:A:ILE:HG22	9	0.48
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD21	10	0.48
(3,777)	1:590:A:ILE:HB	1:590:A:ILE:HG23	18	0.48
(3,777)	1:590:A:ILE:HB	1:590:A:ILE:HG23	19	0.48
(3,777)	1:590:A:ILE:HB	1:590:A:ILE:HG23	23	0.48
(3,745)	1:537:A:VAL:HG23	1:527:A:LEU:HD13	14	0.48
(3,709)	1:528:A:PRO:HB3	1:531:A:SER:HB3	13	0.48
(3,708)	1:615:A:ILE:HA	1:618:A:GLN:HB2	15	0.48
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	7	0.48
(3,627)	1:560:A:PHE:HB3	1:551:A:ILE:HG22	8	0.48
(3,557)	1:563:A:MET:HB3	1:569:A:ALA:HA	25	0.48
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE2	11	0.48
(3,415)	1:563:A:MET:HE1	1:576:A:TYR:HE1	8	0.48
(3,415)	1:563:A:MET:HE1	1:576:A:TYR:HE1	11	0.48
(3,395)	1:516:A:LYS:HD2	1:616:A:HIS:HD2	17	0.48
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	14	0.48
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	19	0.48
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	22	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	24	0.48
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	2	0.48
(3,162)	1:511:A:ALA:HA	1:511:A:ALA:HB1	8	0.48
(3,162)	1:610:A:ALA:HA	1:610:A:ALA:HB2	12	0.48
(3,162)	1:511:A:ALA:HA	1:511:A:ALA:HB1	21	0.48
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB3	22	0.48
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	2	0.48
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	20	0.48
(3,51)	1:516:A:LYS:HB3	1:519:A:GLY:HA3	14	0.48
(3,37)	1:610:A:ALA:HB3	1:610:A:ALA:H	4	0.48
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	10	0.48
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	12	0.48
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	16	0.48
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	18	0.48
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	23	0.48
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	25	0.48
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	15	0.48
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	10	0.48
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	23	0.48
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	16	0.48
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	25	0.48
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB2	8	0.48
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB3	15	0.48
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB1	24	0.48
(1,713)	1:549:A:ASN:HB2	1:599:A:LEU:HD12	8	0.48
(1,391)	1:518:A:ALA:HB1	1:570:A:GLN:HE21	2	0.48
(1,356)	1:521:A:VAL:HG13	1:599:A:LEU:HD23	21	0.48
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	3	0.48
(1,267)	1:583:A:ILE:HG21	1:528:A:PRO:HD3	17	0.48
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	17	0.48
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD21	7	0.48
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	24	0.48
(1,173)	1:514:A:GLN:HG3	1:600:A:GLN:HE21	17	0.48
(1,156)	1:557:A:ASN:HD22	1:529:A:GLU:HG2	5	0.48
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE2	4	0.48
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	18	0.48
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	3	0.48
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG13	23	0.47
(3,1008)	1:522:A:VAL:HG12	1:572:A:MET:H	8	0.47
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	24	0.47
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD22	4	0.47
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	17	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,927)	1:574:A:GLN:HE22	1:570:A:GLN:HB3	15	0.47
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	3	0.47
(3,815)	1:559:A:ALA:HB1	1:552:A:LEU:HG	12	0.47
(3,796)	1:590:A:ILE:HG23	1:522:A:VAL:HG11	2	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD22	2	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD23	4	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD22	8	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD22	11	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD23	12	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD21	14	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD21	22	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD21	24	0.47
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD22	25	0.47
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE2	16	0.47
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	20	0.47
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	3	0.47
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	2	0.47
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	22	0.47
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	3	0.47
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	18	0.47
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	9	0.47
(3,235)	1:558:A:GLN:HG2	1:553:A:MET:H	2	0.47
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG22	25	0.47
(3,176)	1:583:A:ILE:HG21	1:586:A:GLU:HB2	24	0.47
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB1	1	0.47
(3,162)	1:609:A:ALA:HA	1:609:A:ALA:HB2	2	0.47
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB3	3	0.47
(3,162)	1:610:A:ALA:HA	1:610:A:ALA:HB1	4	0.47
(3,162)	1:610:A:ALA:HA	1:610:A:ALA:HB1	5	0.47
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB1	19	0.47
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	22	0.47
(3,134)	1:618:A:GLN:HB3	1:620:A:GLU:HA	24	0.47
(3,16)	1:546:A:LYS:HB3	1:565:A:TYR:HE1	23	0.47
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	5	0.47
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	22	0.47
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	10	0.47
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	22	0.47
(1,1217)	1:568:A:ALA:H	1:516:A:LYS:HB2	6	0.47
(1,1203)	1:556:A:THR:HG23	1:558:A:GLN:HE21	4	0.47
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	12	0.47
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB3	9	0.47
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB3	13	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,981)	1:527:A:LEU:HD13	1:559:A:ALA:HB2	25	0.47
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	6	0.47
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	21	0.47
(1,831)	1:572:A:MET:HE2	1:563:A:MET:HA	4	0.47
(1,808)	1:588:A:LEU:HA	1:526:A:ASN:HB3	17	0.47
(1,719)	1:599:A:LEU:HD21	1:599:A:LEU:HD12	13	0.47
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD12	16	0.47
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD12	25	0.47
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD23	10	0.47
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	5	0.47
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	2	0.47
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	11	0.47
(1,303)	1:524:A:ILE:HD13	1:590:A:ILE:HD11	9	0.47
(1,303)	1:524:A:ILE:HD13	1:590:A:ILE:HD11	16	0.47
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD12	23	0.47
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD11	5	0.47
(1,143)	1:554:A:LYS:HE3	1:533:A:THR:HA	1	0.47
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB3	12	0.47
(1,119)	1:620:A:GLU:HA	1:612:A:ILE:HG23	2	0.47
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	14	0.47
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	17	0.47
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	12	0.46
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG13	17	0.46
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	9	0.46
(3,998)	1:572:A:MET:HE3	1:564:A:ALA:H	1	0.46
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB1	22	0.46
(3,949)	1:561:A:LEU:HD22	1:539:A:ASN:HD22	7	0.46
(3,939)	1:527:A:LEU:HD21	1:533:A:THR:H	5	0.46
(3,922)	1:615:A:ILE:HD12	1:615:A:ILE:H	8	0.46
(3,895)	1:520:A:ARG:H	1:516:A:LYS:HE2	5	0.46
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG2	25	0.46
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG13	9	0.46
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	22	0.46
(3,815)	1:559:A:ALA:HB1	1:552:A:LEU:HG	18	0.46
(3,808)	1:563:A:MET:HE1	1:561:A:LEU:HD23	20	0.46
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	22	0.46
(3,796)	1:590:A:ILE:HG23	1:522:A:VAL:HG11	22	0.46
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD23	17	0.46
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD23	1	0.46
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD23	6	0.46
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD22	7	0.46
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD23	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD22	15	0.46
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD22	17	0.46
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD22	21	0.46
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD13	21	0.46
(3,743)	1:538:A:ILE:HD13	1:552:A:LEU:HD12	1	0.46
(3,709)	1:592:A:MET:HE1	1:570:A:GLN:HA	5	0.46
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	9	0.46
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG11	24	0.46
(3,413)	1:534:A:GLU:HG2	1:535:A:ASN:HD22	18	0.46
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	21	0.46
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	3	0.46
(3,176)	1:583:A:ILE:HG23	1:586:A:GLU:HB2	1	0.46
(3,162)	1:609:A:ALA:HA	1:609:A:ALA:HB3	6	0.46
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB1	7	0.46
(3,162)	1:609:A:ALA:HA	1:609:A:ALA:HB3	14	0.46
(3,162)	1:511:A:ALA:HA	1:511:A:ALA:HB2	16	0.46
(3,162)	1:610:A:ALA:HA	1:610:A:ALA:HB3	24	0.46
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB1	25	0.46
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	5	0.46
(3,8)	1:553:A:MET:HE3	1:556:A:THR:H	6	0.46
(1,1772)	1:612:A:ILE:HG23	1:612:A:ILE:H	8	0.46
(1,1761)	1:610:A:ALA:HB3	1:611:A:ILE:H	1	0.46
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	7	0.46
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	11	0.46
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG13	6	0.46
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	13	0.46
(1,1127)	1:523:A:HIS:H	1:591:A:ARG:HG3	10	0.46
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG22	13	0.46
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	20	0.46
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD13	5	0.46
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD12	11	0.46
(1,719)	1:599:A:LEU:HD21	1:599:A:LEU:HD12	14	0.46
(1,658)	1:551:A:ILE:HD12	1:596:A:TYR:HE1	11	0.46
(1,309)	1:524:A:ILE:HG21	1:559:A:ALA:HB3	23	0.46
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG13	6	0.46
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG12	20	0.46
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG11	24	0.46
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	5	0.46
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	21	0.46
(1,237)	1:514:A:GLN:HB3	1:517:A:GLY:HA2	18	0.46
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB2	19	0.46
(1,119)	1:620:A:GLU:HA	1:612:A:ILE:HG23	13	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	1	0.46
(1,79)	1:546:A:LYS:HD3	1:547:A:VAL:H	4	0.46
(1,65)	1:522:A:VAL:HA	1:592:A:MET:HE3	14	0.46
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE1	2	0.46
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE1	12	0.46
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE3	7	0.45
(3,1008)	1:522:A:VAL:HG12	1:572:A:MET:H	1	0.45
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG21	16	0.45
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	24	0.45
(3,848)	1:619:A:ARG:HB2	1:619:A:ARG:HG3	4	0.45
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	5	0.45
(3,848)	1:619:A:ARG:HB2	1:619:A:ARG:HG3	20	0.45
(3,825)	1:524:A:ILE:HG21	1:559:A:ALA:HB3	9	0.45
(3,815)	1:559:A:ALA:HB1	1:552:A:LEU:HG	13	0.45
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	23	0.45
(3,779)	1:553:A:MET:HE1	1:551:A:ILE:HG23	8	0.45
(3,777)	1:552:A:LEU:HG	1:552:A:LEU:HD21	20	0.45
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	17	0.45
(3,430)	1:521:A:VAL:HG12	1:596:A:TYR:HE1	9	0.45
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	25	0.45
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	4	0.45
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	14	0.45
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	15	0.45
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	20	0.45
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB3	9	0.45
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB2	10	0.45
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB3	17	0.45
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB1	20	0.45
(3,161)	1:563:A:MET:HE1	1:561:A:LEU:HD23	7	0.45
(3,161)	1:563:A:MET:HE1	1:561:A:LEU:HD21	18	0.45
(3,37)	1:610:A:ALA:HB1	1:610:A:ALA:H	17	0.45
(3,7)	1:563:A:MET:HE2	1:542:A:LEU:H	6	0.45
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	20	0.45
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG23	20	0.45
(1,1719)	1:521:A:VAL:H	1:597:A:LYS:HE2	22	0.45
(1,1688)	1:589:A:LEU:HB2	1:525:A:CYS:H	16	0.45
(1,1379)	1:532:A:CYS:HB3	1:532:A:CYS:H	8	0.45
(1,1306)	1:516:A:LYS:HB2	1:519:A:GLY:H	11	0.45
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	7	0.45
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	19	0.45
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	16	0.45
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	6	0.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1191)	1:529:A:GLU:HG3	1:557:A:ASN:H	1	0.45
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG11	7	0.45
(1,981)	1:527:A:LEU:HD13	1:559:A:ALA:HB3	7	0.45
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB3	17	0.45
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB3	18	0.45
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD13	21	0.45
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE3	12	0.45
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	11	0.45
(1,338)	1:513:A:ALA:HB3	1:515:A:ARG:HG3	4	0.45
(1,338)	1:513:A:ALA:HB3	1:515:A:ARG:HG2	17	0.45
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG22	16	0.45
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG13	8	0.45
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG12	13	0.45
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	2	0.45
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	3	0.45
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	8	0.45
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	19	0.45
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	22	0.45
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB3	16	0.45
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	1	0.45
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE2	3	0.45
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE2	11	0.45
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE2	13	0.45
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	23	0.45
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG23	7	0.45
(3,1008)	1:522:A:VAL:HG12	1:572:A:MET:H	14	0.44
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	12	0.44
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	3	0.44
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG21	13	0.44
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	2	0.44
(3,922)	1:615:A:ILE:HD12	1:615:A:ILE:H	2	0.44
(3,922)	1:615:A:ILE:HD13	1:615:A:ILE:H	14	0.44
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	19	0.44
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	23	0.44
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	25	0.44
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB3	21	0.44
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG2	9	0.44
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	17	0.44
(3,848)	1:619:A:ARG:HB2	1:619:A:ARG:HG3	19	0.44
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	16	0.44
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	17	0.44
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD23	15	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	1	0.44
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	21	0.44
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	24	0.44
(3,746)	1:599:A:LEU:HB3	1:599:A:LEU:HD13	25	0.44
(3,709)	1:592:A:MET:HE2	1:570:A:GLN:HA	4	0.44
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	10	0.44
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	21	0.44
(3,585)	1:617:A:SER:HB2	1:615:A:ILE:HD11	22	0.44
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	11	0.44
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	8	0.44
(3,415)	1:563:A:MET:HE1	1:576:A:TYR:HE1	5	0.44
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	3	0.44
(3,235)	1:558:A:GLN:HG2	1:553:A:MET:H	5	0.44
(3,201)	1:595:A:ARG:HD2	1:596:A:TYR:HE2	6	0.44
(3,176)	1:583:A:ILE:HG21	1:586:A:GLU:HB2	6	0.44
(3,172)	1:614:A:ASP:HB2	1:615:A:ILE:HD13	7	0.44
(3,162)	1:609:A:ALA:HA	1:609:A:ALA:HB1	15	0.44
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB1	23	0.44
(3,161)	1:563:A:MET:HE3	1:561:A:LEU:HD21	1	0.44
(3,161)	1:563:A:MET:HE3	1:561:A:LEU:HD21	11	0.44
(3,135)	1:514:A:GLN:HB2	1:513:A:ALA:HA	21	0.44
(3,53)	1:519:A:GLY:HA2	1:568:A:ALA:HB3	23	0.44
(3,37)	1:610:A:ALA:HB2	1:610:A:ALA:H	9	0.44
(3,37)	1:610:A:ALA:HB1	1:610:A:ALA:H	12	0.44
(1,1761)	1:610:A:ALA:HB1	1:611:A:ILE:H	7	0.44
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	5	0.44
(1,1191)	1:529:A:GLU:HG2	1:557:A:ASN:H	11	0.44
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	10	0.44
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	1	0.44
(1,1029)	1:520:A:ARG:HB2	1:569:A:ALA:HB1	14	0.44
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG11	2	0.44
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG12	10	0.44
(1,997)	1:522:A:VAL:HG22	1:522:A:VAL:HG12	11	0.44
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG12	18	0.44
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG12	23	0.44
(1,991)	1:599:A:LEU:HD12	1:521:A:VAL:HG23	3	0.44
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB2	12	0.44
(1,981)	1:527:A:LEU:HD13	1:559:A:ALA:HB3	19	0.44
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	16	0.44
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	25	0.44
(1,910)	1:534:A:GLU:HA	1:552:A:LEU:HD21	2	0.44
(1,880)	1:532:A:CYS:HB2	1:537:A:VAL:HG23	22	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,831)	1:572:A:MET:HE1	1:563:A:MET:HA	2	0.44
(1,831)	1:572:A:MET:HE1	1:563:A:MET:HA	19	0.44
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	1	0.44
(1,764)	1:558:A:GLN:HE22	1:595:A:ARG:HD2	8	0.44
(1,719)	1:599:A:LEU:HD21	1:599:A:LEU:HD13	3	0.44
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	3	0.44
(1,392)	1:518:A:ALA:HB1	1:570:A:GLN:HE22	4	0.44
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE1	2	0.44
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	10	0.44
(1,338)	1:513:A:ALA:HB3	1:515:A:ARG:HG2	22	0.44
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	24	0.44
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG23	5	0.44
(1,297)	1:612:A:ILE:HD12	1:610:A:ALA:HB1	24	0.44
(1,270)	1:553:A:MET:HE3	1:551:A:ILE:HG23	11	0.44
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD12	24	0.44
(1,173)	1:514:A:GLN:HG2	1:600:A:GLN:HE21	10	0.44
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	9	0.44
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	16	0.44
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	9	0.44
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE1	20	0.44
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE3	16	0.43
(3,1006)	1:542:A:LEU:H	1:572:A:MET:H	4	0.43
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	11	0.43
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	9	0.43
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	16	0.43
(3,895)	1:520:A:ARG:H	1:597:A:LYS:HE3	13	0.43
(3,855)	1:602:A:LYS:HD3	1:603:A:LYS:HG3	3	0.43
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	5	0.43
(3,815)	1:559:A:ALA:HB3	1:552:A:LEU:HG	1	0.43
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD22	6	0.43
(3,808)	1:563:A:MET:HE3	1:561:A:LEU:HD23	8	0.43
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD23	12	0.43
(3,771)	1:573:A:VAL:HG11	1:590:A:ILE:HG22	16	0.43
(3,751)	1:599:A:LEU:HD11	1:521:A:VAL:HG12	16	0.43
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD11	7	0.43
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD12	9	0.43
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD12	10	0.43
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD12	12	0.43
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	17	0.43
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	19	0.43
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	23	0.43
(3,745)	1:537:A:VAL:HG23	1:527:A:LEU:HD12	1	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD13	11	0.43
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG22	11	0.43
(3,742)	1:588:A:LEU:HD13	1:590:A:ILE:HD12	24	0.43
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD12	3	0.43
(3,440)	1:521:A:VAL:HG13	1:599:A:LEU:HD23	21	0.43
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE2	8	0.43
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE1	10	0.43
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	12	0.43
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	7	0.43
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	15	0.43
(3,415)	1:563:A:MET:HE3	1:576:A:TYR:HE1	19	0.43
(3,415)	1:563:A:MET:HE1	1:576:A:TYR:HE1	21	0.43
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	11	0.43
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD11	5	0.43
(3,176)	1:583:A:ILE:HG22	1:586:A:GLU:HB2	14	0.43
(3,162)	1:513:A:ALA:HA	1:513:A:ALA:HB2	11	0.43
(3,161)	1:553:A:MET:HE1	1:551:A:ILE:HG22	2	0.43
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	14	0.43
(3,51)	1:516:A:LYS:HB2	1:519:A:GLY:HA3	16	0.43
(3,30)	1:611:A:ILE:HD11	1:610:A:ALA:H	11	0.43
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	15	0.43
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	4	0.43
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	17	0.43
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	18	0.43
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	4	0.43
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	14	0.43
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	18	0.43
(1,997)	1:522:A:VAL:HG22	1:522:A:VAL:HG13	6	0.43
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG11	12	0.43
(1,997)	1:522:A:VAL:HG22	1:522:A:VAL:HG12	14	0.43
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG12	17	0.43
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB1	20	0.43
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	19	0.43
(1,908)	1:593:A:SER:HB2	1:521:A:VAL:HG12	19	0.43
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	9	0.43
(1,719)	1:599:A:LEU:HD22	1:599:A:LEU:HD11	4	0.43
(1,713)	1:549:A:ASN:HB2	1:599:A:LEU:HD11	5	0.43
(1,713)	1:549:A:ASN:HB2	1:599:A:LEU:HD12	22	0.43
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	22	0.43
(1,391)	1:518:A:ALA:HB3	1:570:A:GLN:HE21	21	0.43
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE1	18	0.43
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG12	1	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	9	0.43
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	17	0.43
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	3	0.43
(1,316)	1:556:A:THR:HG23	1:553:A:MET:HA	22	0.43
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	8	0.43
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	18	0.43
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD13	3	0.43
(1,298)	1:582:A:ILE:HD12	1:587:A:LYS:HG3	8	0.43
(1,282)	1:513:A:ALA:HB2	1:549:A:ASN:HA	5	0.43
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	7	0.43
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG23	4	0.43
(3,998)	1:572:A:MET:HE1	1:564:A:ALA:H	6	0.42
(3,973)	1:512:A:MET:HB2	1:549:A:ASN:H	9	0.42
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	16	0.42
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	24	0.42
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	3	0.42
(3,853)	1:527:A:LEU:HD21	1:559:A:ALA:HB3	10	0.42
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	1	0.42
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	6	0.42
(3,848)	1:619:A:ARG:HB2	1:619:A:ARG:HG3	24	0.42
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	13	0.42
(3,815)	1:559:A:ALA:HB3	1:552:A:LEU:HG	2	0.42
(3,815)	1:559:A:ALA:HB3	1:552:A:LEU:HG	20	0.42
(3,802)	1:601:A:LEU:HD21	1:551:A:ILE:HB	13	0.42
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD23	3	0.42
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD23	23	0.42
(3,779)	1:563:A:MET:HE1	1:561:A:LEU:HD21	18	0.42
(3,752)	1:538:A:ILE:HD11	1:552:A:LEU:HD11	6	0.42
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD12	6	0.42
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD11	18	0.42
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG23	10	0.42
(3,742)	1:588:A:LEU:HD11	1:590:A:ILE:HD11	17	0.42
(3,709)	1:592:A:MET:HE2	1:570:A:GLN:HA	6	0.42
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB3	25	0.42
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	19	0.42
(3,430)	1:521:A:VAL:HG13	1:596:A:TYR:HE1	24	0.42
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	24	0.42
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG22	22	0.42
(3,161)	1:553:A:MET:HE2	1:551:A:ILE:HG22	20	0.42
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	19	0.42
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG23	2	0.42
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG22	23	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,84)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	7	0.42
(3,84)	1:603:A:LYS:HD3	1:603:A:LYS:HE2	25	0.42
(3,83)	1:554:A:LYS:HE3	1:553:A:MET:HB2	18	0.42
(3,51)	1:516:A:LYS:HB2	1:519:A:GLY:HA3	25	0.42
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	17	0.42
(1,1795)	1:621:A:ARG:H	1:621:A:ARG:HG2	11	0.42
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	11	0.42
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	24	0.42
(1,1685)	1:588:A:LEU:HD12	1:581:A:ALA:H	6	0.42
(1,1685)	1:588:A:LEU:HD11	1:581:A:ALA:H	19	0.42
(1,1521)	1:522:A:VAL:H	1:561:A:LEU:HB2	10	0.42
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	16	0.42
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	2	0.42
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	17	0.42
(1,1135)	1:533:A:THR:HG21	1:532:A:CYS:H	1	0.42
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	5	0.42
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	8	0.42
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	17	0.42
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	21	0.42
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	24	0.42
(1,997)	1:522:A:VAL:HG22	1:522:A:VAL:HG12	1	0.42
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG11	5	0.42
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG12	8	0.42
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG11	9	0.42
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG11	15	0.42
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG13	16	0.42
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG11	22	0.42
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG13	24	0.42
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	12	0.42
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	19	0.42
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD22	14	0.42
(1,391)	1:518:A:ALA:HB1	1:570:A:GLN:HE21	4	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	2	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	5	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	7	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	12	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	14	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	15	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG12	16	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	18	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG12	21	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	23	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG12	24	0.42
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	25	0.42
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	14	0.42
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	17	0.42
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG11	11	0.42
(1,282)	1:513:A:ALA:HB2	1:549:A:ASN:HA	17	0.42
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	25	0.42
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	11	0.42
(1,80)	1:514:A:GLN:HB2	1:518:A:ALA:H	23	0.42
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	15	0.41
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	19	0.41
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	9	0.41
(3,939)	1:527:A:LEU:HD22	1:533:A:THR:H	22	0.41
(3,926)	1:574:A:GLN:HE22	1:578:A:GLU:HG3	15	0.41
(3,913)	1:523:A:HIS:HB2	1:556:A:THR:H	24	0.41
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD11	4	0.41
(3,848)	1:619:A:ARG:HB2	1:619:A:ARG:HG3	3	0.41
(3,848)	1:619:A:ARG:HB2	1:619:A:ARG:HG3	12	0.41
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	21	0.41
(3,848)	1:619:A:ARG:HB2	1:619:A:ARG:HG3	22	0.41
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	6	0.41
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD12	8	0.41
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	11	0.41
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD13	12	0.41
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	19	0.41
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	24	0.41
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	7	0.41
(3,825)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	10	0.41
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	21	0.41
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	3	0.41
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	19	0.41
(3,802)	1:601:A:LEU:HD23	1:551:A:ILE:HB	19	0.41
(3,779)	1:563:A:MET:HE1	1:561:A:LEU:HD23	7	0.41
(3,779)	1:563:A:MET:HE3	1:561:A:LEU:HD21	11	0.41
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD12	2	0.41
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	2	0.41
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	8	0.41
(3,649)	1:583:A:ILE:HG23	1:531:A:SER:HB3	12	0.41
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD23	18	0.41
(3,557)	1:563:A:MET:HB3	1:569:A:ALA:HA	4	0.41
(3,556)	1:570:A:GLN:HG2	1:570:A:GLN:HA	23	0.41
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	19	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	19	0.41
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	1	0.41
(3,192)	1:515:A:ARG:HG2	1:599:A:LEU:HB3	5	0.41
(3,176)	1:583:A:ILE:HG22	1:586:A:GLU:HB2	13	0.41
(3,172)	1:614:A:ASP:HB2	1:615:A:ILE:HD11	3	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG11	7	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG22	9	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG23	10	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG12	11	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG13	12	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG23	13	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG21	15	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG11	16	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG21	18	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG21	19	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG22	20	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG12	21	0.41
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG21	22	0.41
(3,124)	1:602:A:LYS:HB2	1:602:A:LYS:HE3	8	0.41
(3,84)	1:603:A:LYS:HD2	1:603:A:LYS:HE2	2	0.41
(3,84)	1:546:A:LYS:HD3	1:546:A:LYS:HE3	4	0.41
(3,84)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	10	0.41
(3,84)	1:603:A:LYS:HD3	1:603:A:LYS:HE2	12	0.41
(3,84)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	17	0.41
(3,84)	1:546:A:LYS:HD2	1:546:A:LYS:HE2	20	0.41
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	18	0.41
(1,1312)	1:518:A:ALA:HB3	1:519:A:GLY:H	7	0.41
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	13	0.41
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	15	0.41
(1,1135)	1:533:A:THR:HG21	1:532:A:CYS:H	12	0.41
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	2	0.41
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	13	0.41
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG11	3	0.41
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG11	4	0.41
(1,997)	1:522:A:VAL:HG22	1:522:A:VAL:HG12	20	0.41
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG11	25	0.41
(1,991)	1:599:A:LEU:HD11	1:521:A:VAL:HG23	14	0.41
(1,981)	1:527:A:LEU:HD13	1:559:A:ALA:HB1	16	0.41
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	24	0.41
(1,728)	1:583:A:ILE:HG22	1:584:A:ASN:HD21	20	0.41
(1,719)	1:599:A:LEU:HD23	1:599:A:LEU:HD11	22	0.41
(1,614)	1:552:A:LEU:HD23	1:550:A:TYR:HE1	24	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,505)	1:599:A:LEU:HB2	1:600:A:GLN:H	17	0.41
(1,378)	1:549:A:ASN:HB3	1:599:A:LEU:HD12	3	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	3	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	4	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG12	6	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	8	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	10	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	11	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	13	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	19	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG11	20	0.41
(1,360)	1:522:A:VAL:HB	1:522:A:VAL:HG13	22	0.41
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD11	20	0.41
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	4	0.41
(1,297)	1:612:A:ILE:HD11	1:610:A:ALA:HB1	3	0.41
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG11	15	0.41
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG11	18	0.41
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD12	1	0.41
(1,266)	1:583:A:ILE:HG23	1:528:A:PRO:HD2	14	0.41
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD21	2	0.41
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	10	0.41
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE1	24	0.41
(1,52)	1:615:A:ILE:HG21	1:615:A:ILE:H	9	0.41
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD11	11	0.4
(3,998)	1:572:A:MET:HE3	1:564:A:ALA:H	18	0.4
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	1	0.4
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	7	0.4
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	14	0.4
(3,855)	1:602:A:LYS:HD2	1:603:A:LYS:HG3	15	0.4
(3,853)	1:527:A:LEU:HD23	1:559:A:ALA:HB2	6	0.4
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	7	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD12	1	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD13	2	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	3	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD13	4	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD12	5	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD13	13	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD12	14	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	15	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	16	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD13	17	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	21	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	23	0.4
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD13	25	0.4
(3,808)	1:563:A:MET:HE1	1:561:A:LEU:HD23	2	0.4
(3,802)	1:601:A:LEU:HD21	1:551:A:ILE:HB	4	0.4
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	12	0.4
(3,779)	1:563:A:MET:HE3	1:561:A:LEU:HD21	1	0.4
(3,779)	1:553:A:MET:HE1	1:551:A:ILE:HG22	2	0.4
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	16	0.4
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD11	13	0.4
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD11	15	0.4
(3,742)	1:588:A:LEU:HD12	1:590:A:ILE:HD12	23	0.4
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD11	4	0.4
(3,709)	1:592:A:MET:HE1	1:570:A:GLN:HA	12	0.4
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	7	0.4
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE3	12	0.4
(3,694)	1:602:A:LYS:HD2	1:602:A:LYS:HE2	25	0.4
(3,693)	1:546:A:LYS:HB2	1:546:A:LYS:HE2	20	0.4
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	14	0.4
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	13	0.4
(3,415)	1:563:A:MET:HE2	1:576:A:TYR:HE1	20	0.4
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	6	0.4
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	21	0.4
(3,201)	1:595:A:ARG:HD2	1:596:A:TYR:HE2	13	0.4
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG23	6	0.4
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD22	21	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	3	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD12	4	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	5	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	6	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD12	9	0.4
(3,151)	1:589:A:LEU:HB2	1:589:A:LEU:HD23	10	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	11	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD13	13	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	17	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD12	19	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	20	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD13	21	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	22	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	23	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD12	24	0.4
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD13	25	0.4
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG11	1	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG13	3	0.4
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG23	4	0.4
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG21	6	0.4
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG22	8	0.4
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG21	14	0.4
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG23	17	0.4
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG22	24	0.4
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG11	25	0.4
(3,119)	1:514:A:GLN:HG3	1:513:A:ALA:HA	1	0.4
(3,119)	1:514:A:GLN:HG2	1:513:A:ALA:HA	22	0.4
(3,84)	1:603:A:LYS:HD3	1:603:A:LYS:HE2	5	0.4
(3,84)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	11	0.4
(3,84)	1:603:A:LYS:HD3	1:603:A:LYS:HE2	14	0.4
(3,84)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	22	0.4
(3,84)	1:603:A:LYS:HD3	1:603:A:LYS:HE2	23	0.4
(3,84)	1:602:A:LYS:HD2	1:602:A:LYS:HE3	24	0.4
(3,43)	1:618:A:GLN:HG3	1:616:A:HIS:H	6	0.4
(3,19)	1:594:A:THR:HB	1:596:A:TYR:HA	5	0.4
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	10	0.4
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG13	9	0.4
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	15	0.4
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	9	0.4
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	19	0.4
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	25	0.4
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG12	13	0.4
(1,997)	1:522:A:VAL:HG23	1:522:A:VAL:HG12	19	0.4
(1,997)	1:522:A:VAL:HG21	1:522:A:VAL:HG13	21	0.4
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB1	1	0.4
(1,929)	1:554:A:LYS:HD3	1:554:A:LYS:HA	16	0.4
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	9	0.4
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	17	0.4
(1,831)	1:572:A:MET:HE1	1:563:A:MET:HA	25	0.4
(1,641)	1:595:A:ARG:HD2	1:560:A:PHE:HZ	13	0.4
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	17	0.4
(1,529)	1:617:A:SER:HB2	1:616:A:HIS:H	8	0.4
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	9	0.4
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	10	0.4
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	11	0.4
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE1	1	0.4
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	12	0.4
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD12	12	0.4
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD12	18	0.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD11	25	0.4
(1,316)	1:556:A:THR:HG21	1:553:A:MET:HA	7	0.4
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG13	21	0.4
(1,282)	1:513:A:ALA:HB3	1:549:A:ASN:HA	8	0.4
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	6	0.4
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	9	0.4
(1,79)	1:546:A:LYS:HD3	1:547:A:VAL:H	14	0.4
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG22	16	0.4
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	25	0.39
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG21	9	0.39
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	2	0.39
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	6	0.39
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	6	0.39
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	13	0.39
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	25	0.39
(3,949)	1:561:A:LEU:HD21	1:539:A:ASN:HD22	21	0.39
(3,939)	1:527:A:LEU:HD22	1:533:A:THR:H	14	0.39
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	15	0.39
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	18	0.39
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	7	0.39
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD12	9	0.39
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	10	0.39
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD11	18	0.39
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD12	20	0.39
(3,826)	1:589:A:LEU:HG	1:589:A:LEU:HD12	22	0.39
(3,815)	1:559:A:ALA:HB3	1:552:A:LEU:HG	14	0.39
(3,815)	1:559:A:ALA:HB1	1:552:A:LEU:HG	25	0.39
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD22	13	0.39
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD12	5	0.39
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	8	0.39
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD11	14	0.39
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE3	4	0.39
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	17	0.39
(3,694)	1:546:A:LYS:HD2	1:546:A:LYS:HE2	20	0.39
(3,693)	1:546:A:LYS:HB2	1:546:A:LYS:HE2	18	0.39
(3,693)	1:546:A:LYS:HB2	1:546:A:LYS:HE2	24	0.39
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	4	0.39
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	22	0.39
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	17	0.39
(3,430)	1:521:A:VAL:HG12	1:596:A:TYR:HE2	18	0.39
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	1	0.39
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	10	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	20	0.39
(3,407)	1:516:A:LYS:HB3	1:565:A:TYR:HD2	14	0.39
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	1	0.39
(3,390)	1:540:A:LEU:HD21	1:576:A:TYR:HE2	9	0.39
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	1	0.39
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD13	2	0.39
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD12	7	0.39
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	8	0.39
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD13	12	0.39
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	14	0.39
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD11	15	0.39
(3,151)	1:601:A:LEU:HG	1:601:A:LEU:HD13	18	0.39
(3,134)	1:618:A:GLN:HB3	1:620:A:GLU:HA	23	0.39
(3,84)	1:603:A:LYS:HD3	1:603:A:LYS:HE2	8	0.39
(3,84)	1:602:A:LYS:HD2	1:602:A:LYS:HE2	9	0.39
(3,84)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	13	0.39
(3,84)	1:602:A:LYS:HD2	1:602:A:LYS:HE3	15	0.39
(3,84)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	19	0.39
(3,47)	1:618:A:GLN:HG2	1:565:A:TYR:HE2	25	0.39
(3,36)	1:592:A:MET:HE2	1:566:A:THR:HA	18	0.39
(3,7)	1:563:A:MET:HE3	1:542:A:LEU:H	5	0.39
(1,1761)	1:610:A:ALA:HB1	1:611:A:ILE:H	6	0.39
(1,1759)	1:609:A:ALA:HB2	1:609:A:ALA:H	6	0.39
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	10	0.39
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	8	0.39
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	12	0.39
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	10	0.39
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	21	0.39
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	18	0.39
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	6	0.39
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG22	18	0.39
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG21	21	0.39
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB1	11	0.39
(1,695)	1:560:A:PHE:HD2	1:596:A:TYR:HE2	24	0.39
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	4	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD12	1	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD11	2	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	9	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD12	11	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD11	13	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	16	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	19	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	21	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD11	23	0.39
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	24	0.39
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	12	0.39
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG21	10	0.39
(1,297)	1:612:A:ILE:HD11	1:610:A:ALA:HB3	10	0.39
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD22	11	0.39
(1,125)	1:539:A:ASN:HA	1:542:A:LEU:HB3	21	0.39
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB3	1	0.39
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE1	19	0.39
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE1	23	0.39
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	15	0.39
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG12	12	0.38
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE3	19	0.38
(3,998)	1:572:A:MET:HE3	1:564:A:ALA:H	17	0.38
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	3	0.38
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	18	0.38
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	23	0.38
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	25	0.38
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	8	0.38
(3,848)	1:619:A:ARG:HB2	1:619:A:ARG:HG3	10	0.38
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	11	0.38
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	4	0.38
(3,815)	1:559:A:ALA:HB1	1:552:A:LEU:HG	6	0.38
(3,815)	1:559:A:ALA:HB3	1:552:A:LEU:HG	11	0.38
(3,808)	1:563:A:MET:HE1	1:561:A:LEU:HD21	18	0.38
(3,779)	1:553:A:MET:HE2	1:551:A:ILE:HG22	20	0.38
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	16	0.38
(3,770)	1:615:A:ILE:HG12	1:615:A:ILE:HD12	2	0.38
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	3	0.38
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	5	0.38
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG13	9	0.38
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	18	0.38
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	22	0.38
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD12	4	0.38
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG11	8	0.38
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	4	0.38
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD11	11	0.38
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD11	16	0.38
(3,745)	1:537:A:VAL:HG23	1:527:A:LEU:HD11	4	0.38
(3,743)	1:538:A:ILE:HD11	1:552:A:LEU:HD13	17	0.38
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD13	1	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	5	0.38
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	6	0.38
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	10	0.38
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	11	0.38
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	22	0.38
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	23	0.38
(3,694)	1:602:A:LYS:HD2	1:602:A:LYS:HE3	24	0.38
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	14	0.38
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	5	0.38
(3,521)	1:577:A:GLN:HE22	1:592:A:MET:HB2	24	0.38
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE2	8	0.38
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	6	0.38
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	14	0.38
(3,187)	1:606:A:LYS:HG3	1:601:A:LEU:HD12	9	0.38
(3,168)	1:538:A:ILE:HD13	1:561:A:LEU:HG	5	0.38
(3,161)	1:553:A:MET:HE1	1:551:A:ILE:HG22	6	0.38
(3,138)	1:514:A:GLN:HB2	1:549:A:ASN:HA	23	0.38
(3,125)	1:608:A:VAL:HB	1:608:A:VAL:HG22	5	0.38
(3,84)	1:603:A:LYS:HD2	1:603:A:LYS:HE2	6	0.38
(3,84)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	18	0.38
(3,30)	1:612:A:ILE:HD11	1:610:A:ALA:H	2	0.38
(3,30)	1:612:A:ILE:HD11	1:610:A:ALA:H	8	0.38
(1,1761)	1:610:A:ALA:HB2	1:611:A:ILE:H	2	0.38
(1,1761)	1:610:A:ALA:HB3	1:611:A:ILE:H	24	0.38
(1,1537)	1:563:A:MET:HB2	1:565:A:TYR:H	18	0.38
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	5	0.38
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	25	0.38
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	3	0.38
(1,1116)	1:614:A:ASP:H	1:615:A:ILE:H	1	0.38
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD12	22	0.38
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG23	1	0.38
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG23	9	0.38
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG23	23	0.38
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD13	4	0.38
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	24	0.38
(1,764)	1:558:A:GLN:HE22	1:595:A:ARG:HD3	1	0.38
(1,728)	1:583:A:ILE:HG23	1:584:A:ASN:HD21	3	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	1	0.38
(1,357)	1:521:A:VAL:HG21	1:521:A:VAL:HG23	2	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG23	3	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG23	4	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	5	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,357)	1:521:A:VAL:HG21	1:521:A:VAL:HG23	6	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	7	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG23	8	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG23	9	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	10	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	11	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	12	0.38
(1,357)	1:521:A:VAL:HG21	1:521:A:VAL:HG23	13	0.38
(1,357)	1:521:A:VAL:HG21	1:521:A:VAL:HG23	14	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	15	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG23	16	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	17	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	18	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	19	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	20	0.38
(1,357)	1:521:A:VAL:HG21	1:521:A:VAL:HG23	21	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG23	22	0.38
(1,357)	1:521:A:VAL:HG21	1:521:A:VAL:HG23	23	0.38
(1,357)	1:521:A:VAL:HG21	1:521:A:VAL:HG23	24	0.38
(1,357)	1:521:A:VAL:HG22	1:521:A:VAL:HG21	25	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	3	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD12	4	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	5	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD11	6	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	7	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	8	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	10	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD11	14	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	15	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD13	17	0.38
(1,336)	1:552:A:LEU:HG	1:552:A:LEU:HD11	22	0.38
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG23	8	0.38
(1,310)	1:524:A:ILE:HG21	1:590:A:ILE:HD12	14	0.38
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	19	0.38
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	22	0.38
(1,303)	1:524:A:ILE:HD13	1:590:A:ILE:HD12	11	0.38
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	2	0.38
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG23	23	0.38
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	15	0.38
(1,79)	1:546:A:LYS:HD3	1:547:A:VAL:H	25	0.38
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	13	0.37
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	4	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	17	0.37
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	11	0.37
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	17	0.37
(3,825)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	15	0.37
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	23	0.37
(3,824)	1:559:A:ALA:HB1	1:537:A:VAL:HG11	25	0.37
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	9	0.37
(3,815)	1:559:A:ALA:HB3	1:552:A:LEU:HG	24	0.37
(3,808)	1:563:A:MET:HE3	1:561:A:LEU:HD21	1	0.37
(3,808)	1:563:A:MET:HE1	1:561:A:LEU:HD23	7	0.37
(3,808)	1:563:A:MET:HE3	1:561:A:LEU:HD21	11	0.37
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD23	2	0.37
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD21	5	0.37
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD22	21	0.37
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD13	8	0.37
(3,770)	1:615:A:ILE:HG12	1:615:A:ILE:HD13	9	0.37
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD12	11	0.37
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD12	12	0.37
(3,770)	1:615:A:ILE:HG12	1:615:A:ILE:HD13	17	0.37
(3,770)	1:615:A:ILE:HG12	1:615:A:ILE:HD13	18	0.37
(3,770)	1:615:A:ILE:HG12	1:615:A:ILE:HD12	20	0.37
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	8	0.37
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	17	0.37
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	23	0.37
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD11	14	0.37
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	22	0.37
(3,741)	1:599:A:LEU:HD12	1:521:A:VAL:HG23	3	0.37
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	8	0.37
(3,694)	1:602:A:LYS:HD2	1:602:A:LYS:HE2	9	0.37
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	13	0.37
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	14	0.37
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	7	0.37
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	21	0.37
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	24	0.37
(3,388)	1:538:A:ILE:HG22	1:550:A:TYR:HE2	10	0.37
(3,166)	1:620:A:GLU:HA	1:612:A:ILE:HD11	3	0.37
(3,151)	1:589:A:LEU:HB3	1:589:A:LEU:HD23	16	0.37
(3,138)	1:514:A:GLN:HB2	1:549:A:ASN:HA	12	0.37
(3,124)	1:587:A:LYS:HB2	1:587:A:LYS:HE2	6	0.37
(3,84)	1:546:A:LYS:HD2	1:546:A:LYS:HE3	21	0.37
(1,1795)	1:621:A:ARG:H	1:621:A:ARG:HG2	22	0.37
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	20	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1462)	1:549:A:ASN:HD22	1:548:A:THR:HB	16	0.37
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	15	0.37
(1,1395)	1:536:A:ASP:H	1:535:A:ASN:HB2	12	0.37
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	11	0.37
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	16	0.37
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	11	0.37
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG21	6	0.37
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG23	25	0.37
(1,981)	1:527:A:LEU:HD13	1:559:A:ALA:HB3	23	0.37
(1,929)	1:554:A:LYS:HD3	1:554:A:LYS:HA	23	0.37
(1,908)	1:593:A:SER:HB2	1:521:A:VAL:HG13	14	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	1	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	3	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	6	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	8	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	14	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	15	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	16	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD13	18	0.37
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	21	0.37
(1,831)	1:572:A:MET:HE1	1:563:A:MET:HA	12	0.37
(1,719)	1:599:A:LEU:HD21	1:599:A:LEU:HD11	20	0.37
(1,658)	1:551:A:ILE:HD12	1:596:A:TYR:HE1	17	0.37
(1,489)	1:527:A:LEU:HD11	1:558:A:GLN:H	12	0.37
(1,341)	1:573:A:VAL:HG12	1:589:A:LEU:HG	20	0.37
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB2	6	0.37
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD11	18	0.37
(1,179)	1:610:A:ALA:HB2	1:621:A:ARG:H	16	0.37
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	4	0.37
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG23	8	0.37
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	10	0.36
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	18	0.36
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG11	24	0.36
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE3	20	0.36
(3,998)	1:572:A:MET:HE1	1:564:A:ALA:H	2	0.36
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG21	15	0.36
(3,939)	1:527:A:LEU:HD22	1:533:A:THR:H	6	0.36
(3,939)	1:527:A:LEU:HD23	1:533:A:THR:H	17	0.36
(3,939)	1:527:A:LEU:HD21	1:533:A:THR:H	24	0.36
(3,927)	1:574:A:GLN:HE22	1:573:A:VAL:HB	4	0.36
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	19	0.36
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	1	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG11	2	0.36
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	21	0.36
(3,771)	1:573:A:VAL:HG11	1:590:A:ILE:HG22	11	0.36
(3,770)	1:615:A:ILE:HG12	1:615:A:ILE:HD13	3	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD13	4	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD11	5	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD11	10	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD11	14	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD11	19	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD11	23	0.36
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD12	25	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	1	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	11	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	13	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG13	15	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	19	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG13	20	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	21	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	24	0.36
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	25	0.36
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD11	25	0.36
(3,709)	1:592:A:MET:HE1	1:570:A:GLN:HA	14	0.36
(3,694)	1:602:A:LYS:HD2	1:602:A:LYS:HE3	15	0.36
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	19	0.36
(3,645)	1:583:A:ILE:HG21	1:527:A:LEU:HA	22	0.36
(3,452)	1:601:A:LEU:HD11	1:601:A:LEU:H	23	0.36
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	24	0.36
(3,413)	1:534:A:GLU:HG2	1:535:A:ASN:HD22	19	0.36
(3,395)	1:516:A:LYS:HD3	1:616:A:HIS:HD2	7	0.36
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	1	0.36
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	4	0.36
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG23	1	0.36
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG21	4	0.36
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG22	14	0.36
(3,150)	1:537:A:VAL:HG23	1:588:A:LEU:HD13	16	0.36
(3,143)	1:553:A:MET:HG3	1:551:A:ILE:HG13	10	0.36
(3,84)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	1	0.36
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG23	10	0.36
(1,1708)	1:592:A:MET:HE2	1:570:A:GLN:H	23	0.36
(1,1685)	1:588:A:LEU:HD12	1:581:A:ALA:H	2	0.36
(1,1677)	1:586:A:GLU:HB2	1:586:A:GLU:H	12	0.36
(1,1677)	1:586:A:GLU:HB2	1:586:A:GLU:H	23	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1543)	1:564:A:ALA:HB2	1:546:A:LYS:H	7	0.36
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	13	0.36
(1,1457)	1:547:A:VAL:HG12	1:549:A:ASN:H	19	0.36
(1,1456)	1:547:A:VAL:HG13	1:548:A:THR:H	12	0.36
(1,1389)	1:534:A:GLU:HB2	1:535:A:ASN:H	25	0.36
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	20	0.36
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	20	0.36
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	7	0.36
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG21	19	0.36
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG22	20	0.36
(1,981)	1:527:A:LEU:HD11	1:559:A:ALA:HB2	6	0.36
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	2	0.36
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD13	5	0.36
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	11	0.36
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	13	0.36
(1,808)	1:588:A:LEU:HA	1:526:A:ASN:HB3	14	0.36
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE1	13	0.36
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	13	0.36
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB1	1	0.36
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	17	0.36
(1,309)	1:524:A:ILE:HG21	1:559:A:ALA:HB1	20	0.36
(1,303)	1:524:A:ILE:HD13	1:590:A:ILE:HD13	6	0.36
(1,303)	1:524:A:ILE:HD13	1:590:A:ILE:HD12	20	0.36
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD12	21	0.36
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG11	17	0.36
(1,282)	1:513:A:ALA:HB2	1:549:A:ASN:HA	18	0.36
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE1	25	0.36
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	4	0.35
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	11	0.35
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	12	0.35
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	21	0.35
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	25	0.35
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	23	0.35
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG12	1	0.35
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	15	0.35
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	22	0.35
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	15	0.35
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD21	7	0.35
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD13	1	0.35
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD11	7	0.35
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD13	15	0.35
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD12	21	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD11	24	0.35
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG13	12	0.35
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG12	20	0.35
(3,746)	1:599:A:LEU:HB3	1:599:A:LEU:HD11	3	0.35
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG23	4	0.35
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD11	17	0.35
(3,694)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	18	0.35
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	23	0.35
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	12	0.35
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	5	0.35
(3,416)	1:572:A:MET:HA	1:576:A:TYR:HE1	22	0.35
(3,415)	1:563:A:MET:HE1	1:576:A:TYR:HE1	10	0.35
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	19	0.35
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD22	22	0.35
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD21	2	0.35
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD21	7	0.35
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	10	0.35
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD23	18	0.35
(3,174)	1:590:A:ILE:HD12	1:587:A:LYS:HA	12	0.35
(3,161)	1:563:A:MET:HE3	1:561:A:LEU:HD22	5	0.35
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG21	6	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG23	7	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG22	9	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG22	10	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG21	11	0.35
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG23	12	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG21	17	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG21	19	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG21	20	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG21	23	0.35
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG22	24	0.35
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG22	25	0.35
(3,119)	1:514:A:GLN:HG2	1:513:A:ALA:HA	15	0.35
(3,112)	1:561:A:LEU:HB3	1:537:A:VAL:HG13	2	0.35
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	6	0.35
(3,84)	1:546:A:LYS:HD2	1:546:A:LYS:HE3	3	0.35
(3,84)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	16	0.35
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	4	0.35
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	7	0.35
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	15	0.35
(1,1691)	1:525:A:CYS:H	1:589:A:LEU:HD13	2	0.35
(1,1685)	1:588:A:LEU:HD13	1:581:A:ALA:H	22	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1312)	1:518:A:ALA:HB3	1:519:A:GLY:H	14	0.35
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	11	0.35
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	8	0.35
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	9	0.35
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	1	0.35
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	5	0.35
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	8	0.35
(1,1135)	1:533:A:THR:HG21	1:532:A:CYS:H	6	0.35
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	13	0.35
(1,1122)	1:519:A:GLY:H	1:566:A:THR:HG22	11	0.35
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG22	1	0.35
(1,991)	1:599:A:LEU:HD12	1:521:A:VAL:HG21	25	0.35
(1,971)	1:570:A:GLN:HG2	1:569:A:ALA:HB2	3	0.35
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	5	0.35
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD13	7	0.35
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	10	0.35
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	12	0.35
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD11	22	0.35
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD13	25	0.35
(1,764)	1:558:A:GLN:HE22	1:595:A:ARG:HD3	23	0.35
(1,492)	1:572:A:MET:HG3	1:573:A:VAL:H	16	0.35
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE2	4	0.35
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE3	9	0.35
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE2	19	0.35
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	1	0.35
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	22	0.35
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	5	0.35
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	11	0.35
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB1	14	0.35
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	16	0.35
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	25	0.35
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG12	5	0.35
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG13	22	0.35
(1,282)	1:513:A:ALA:HB3	1:549:A:ASN:HA	25	0.35
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	2	0.35
(1,179)	1:610:A:ALA:HB3	1:621:A:ARG:H	1	0.35
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	14	0.35
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG22	7	0.34
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE2	6	0.34
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	15	0.34
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	19	0.34
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB1	13	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	20	0.34
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	24	0.34
(3,943)	1:536:A:ASP:H	1:583:A:ILE:HG22	6	0.34
(3,939)	1:527:A:LEU:HD23	1:533:A:THR:H	3	0.34
(3,939)	1:527:A:LEU:HD23	1:533:A:THR:H	8	0.34
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	19	0.34
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	24	0.34
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	2	0.34
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	20	0.34
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD22	4	0.34
(3,795)	1:537:A:VAL:HG21	1:527:A:LEU:HD23	21	0.34
(3,779)	1:553:A:MET:HE1	1:551:A:ILE:HG22	6	0.34
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD13	6	0.34
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD12	13	0.34
(3,746)	1:599:A:LEU:HG	1:599:A:LEU:HD13	20	0.34
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG23	12	0.34
(3,742)	1:588:A:LEU:HD13	1:590:A:ILE:HD11	5	0.34
(3,742)	1:590:A:ILE:HD12	1:540:A:LEU:HD23	12	0.34
(3,742)	1:588:A:LEU:HD13	1:590:A:ILE:HD12	25	0.34
(3,741)	1:599:A:LEU:HD11	1:521:A:VAL:HG23	14	0.34
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD11	10	0.34
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD12	25	0.34
(3,694)	1:546:A:LYS:HD2	1:546:A:LYS:HE3	21	0.34
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	11	0.34
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	17	0.34
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	8	0.34
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	20	0.34
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB2	18	0.34
(3,557)	1:563:A:MET:HB3	1:569:A:ALA:HA	9	0.34
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	14	0.34
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	3	0.34
(3,235)	1:558:A:GLN:HG2	1:553:A:MET:H	11	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	4	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	5	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD21	6	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD23	8	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	11	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	16	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD21	19	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	20	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD23	21	0.34
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD21	22	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD23	24	0.34
(3,176)	1:583:A:ILE:HG21	1:586:A:GLU:HB2	7	0.34
(3,166)	1:620:A:GLU:HA	1:612:A:ILE:HD11	4	0.34
(3,161)	1:553:A:MET:HE3	1:551:A:ILE:HG22	12	0.34
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD21	16	0.34
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG23	2	0.34
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG23	3	0.34
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG22	5	0.34
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG21	16	0.34
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG22	18	0.34
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG22	21	0.34
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG21	22	0.34
(3,143)	1:514:A:GLN:HG2	1:562:A:GLU:HB2	3	0.34
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	11	0.34
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	22	0.34
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	4	0.34
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	13	0.34
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	14	0.34
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	20	0.34
(1,1543)	1:564:A:ALA:HB3	1:546:A:LYS:H	3	0.34
(1,1448)	1:546:A:LYS:HB2	1:546:A:LYS:H	9	0.34
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	1	0.34
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG3	16	0.34
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	5	0.34
(1,1029)	1:520:A:ARG:HB2	1:569:A:ALA:HB3	23	0.34
(1,1009)	1:551:A:ILE:HG12	1:601:A:LEU:HD23	9	0.34
(1,1009)	1:551:A:ILE:HG12	1:601:A:LEU:HD21	22	0.34
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG21	16	0.34
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB3	21	0.34
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	7	0.34
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD13	19	0.34
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD13	23	0.34
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	10	0.34
(1,695)	1:560:A:PHE:HD2	1:596:A:TYR:HE2	13	0.34
(1,641)	1:595:A:ARG:HD2	1:560:A:PHE:HZ	5	0.34
(1,525)	1:519:A:GLY:HA3	1:520:A:ARG:H	6	0.34
(1,525)	1:519:A:GLY:HA3	1:520:A:ARG:H	16	0.34
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD11	18	0.34
(1,298)	1:582:A:ILE:HD11	1:587:A:LYS:HG2	13	0.34
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG11	7	0.34
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG22	11	0.34
(1,270)	1:553:A:MET:HE1	1:551:A:ILE:HG22	14	0.34

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,143)	1:554:A:LYS:HE3	1:533:A:THR:HA	22	0.34
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	5	0.34
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	6	0.34
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	12	0.34
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	23	0.34
(1,64)	1:542:A:LEU:HA	1:572:A:MET:HE3	21	0.34
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE3	8	0.33
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	8	0.33
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	16	0.33
(3,939)	1:527:A:LEU:HD23	1:533:A:THR:H	1	0.33
(3,939)	1:527:A:LEU:HD23	1:533:A:THR:H	23	0.33
(3,922)	1:615:A:ILE:HD12	1:615:A:ILE:H	19	0.33
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	9	0.33
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD22	21	0.33
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD23	1	0.33
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD12	16	0.33
(3,770)	1:583:A:ILE:HG12	1:583:A:ILE:HD11	22	0.33
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	2	0.33
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	6	0.33
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	7	0.33
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	14	0.33
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD12	23	0.33
(3,699)	1:579:A:LYS:HB2	1:575:A:TYR:HB3	5	0.33
(3,699)	1:579:A:LYS:HB2	1:575:A:TYR:HB3	15	0.33
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	1	0.33
(3,694)	1:546:A:LYS:HD2	1:546:A:LYS:HE3	3	0.33
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	16	0.33
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	25	0.33
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB1	13	0.33
(3,239)	1:515:A:ARG:HB2	1:563:A:MET:H	10	0.33
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	10	0.33
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD23	1	0.33
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD23	9	0.33
(3,184)	1:551:A:ILE:HG13	1:601:A:LEU:HD21	12	0.33
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	13	0.33
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD21	14	0.33
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD21	15	0.33
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD23	17	0.33
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD21	23	0.33
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	25	0.33
(3,158)	1:611:A:ILE:HB	1:611:A:ILE:HG23	13	0.33
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG21	15	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,120)	1:597:A:LYS:HB3	1:593:A:SER:HB3	6	0.33
(3,43)	1:613:A:GLN:HG2	1:616:A:HIS:H	11	0.33
(3,30)	1:611:A:ILE:HD12	1:610:A:ALA:H	5	0.33
(3,9)	1:563:A:MET:HE1	1:576:A:TYR:HE1	23	0.33
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	14	0.33
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	25	0.33
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG22	9	0.33
(1,1761)	1:610:A:ALA:HB3	1:611:A:ILE:H	15	0.33
(1,1686)	1:588:A:LEU:HD22	1:583:A:ILE:H	22	0.33
(1,1685)	1:588:A:LEU:HD11	1:581:A:ALA:H	13	0.33
(1,1677)	1:586:A:GLU:HB2	1:586:A:GLU:H	18	0.33
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	5	0.33
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	6	0.33
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	7	0.33
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	10	0.33
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	11	0.33
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	17	0.33
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	18	0.33
(1,1312)	1:518:A:ALA:HB1	1:519:A:GLY:H	15	0.33
(1,1258)	1:584:A:ASN:H	1:587:A:LYS:HG2	17	0.33
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	6	0.33
(1,1127)	1:523:A:HIS:H	1:591:A:ARG:HG3	20	0.33
(1,981)	1:527:A:LEU:HD12	1:559:A:ALA:HB3	10	0.33
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	5	0.33
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD21	8	0.33
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	6	0.33
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	23	0.33
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG23	5	0.33
(1,310)	1:524:A:ILE:HG23	1:590:A:ILE:HD11	19	0.33
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD13	14	0.33
(1,298)	1:582:A:ILE:HD11	1:587:A:LYS:HG2	4	0.33
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD11	18	0.33
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG23	23	0.33
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	19	0.33
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	11	0.32
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	21	0.32
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB3	7	0.32
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	18	0.32
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	15	0.32
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	7	0.32
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	7	0.32
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	11	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	16	0.32
(3,815)	1:559:A:ALA:HB3	1:552:A:LEU:HG	8	0.32
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	5	0.32
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD23	25	0.32
(3,771)	1:573:A:VAL:HG11	1:590:A:ILE:HG23	18	0.32
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG12	4	0.32
(3,757)	1:537:A:VAL:HB	1:537:A:VAL:HG11	10	0.32
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD13	5	0.32
(3,743)	1:538:A:ILE:HD13	1:552:A:LEU:HD11	23	0.32
(3,742)	1:590:A:ILE:HD13	1:540:A:LEU:HD21	18	0.32
(3,741)	1:599:A:LEU:HD13	1:521:A:VAL:HG21	21	0.32
(3,694)	1:546:A:LYS:HD3	1:546:A:LYS:HE2	16	0.32
(3,670)	1:540:A:LEU:HG	1:537:A:VAL:HA	1	0.32
(3,517)	1:558:A:GLN:HB3	1:560:A:PHE:HE1	21	0.32
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	15	0.32
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	24	0.32
(3,415)	1:563:A:MET:HE3	1:576:A:TYR:HE1	7	0.32
(3,124)	1:602:A:LYS:HB2	1:602:A:LYS:HE2	24	0.32
(3,30)	1:612:A:ILE:HD12	1:610:A:ALA:H	24	0.32
(3,7)	1:563:A:MET:HE3	1:542:A:LEU:H	21	0.32
(1,1708)	1:592:A:MET:HE2	1:570:A:GLN:H	15	0.32
(1,1685)	1:588:A:LEU:HD12	1:581:A:ALA:H	14	0.32
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	3	0.32
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	9	0.32
(1,1582)	1:570:A:GLN:HG2	1:570:A:GLN:HE21	22	0.32
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	2	0.32
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	21	0.32
(1,1009)	1:551:A:ILE:HG12	1:601:A:LEU:HD22	18	0.32
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB2	2	0.32
(1,858)	1:524:A:ILE:HA	1:527:A:LEU:HD12	20	0.32
(1,831)	1:572:A:MET:HE2	1:563:A:MET:HA	16	0.32
(1,831)	1:572:A:MET:HE2	1:563:A:MET:HA	23	0.32
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	7	0.32
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	17	0.32
(1,392)	1:518:A:ALA:HB2	1:570:A:GLN:HE22	14	0.32
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	7	0.32
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD12	5	0.32
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD12	15	0.32
(1,299)	1:583:A:ILE:HD11	1:536:A:ASP:HB3	14	0.32
(1,270)	1:553:A:MET:HE1	1:551:A:ILE:HG22	7	0.32
(1,267)	1:583:A:ILE:HG22	1:528:A:PRO:HD3	13	0.32
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	2	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	15	0.32
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB1	23	0.32
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	1	0.32
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	13	0.32
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	23	0.32
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD12	8	0.31
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	18	0.31
(3,967)	1:546:A:LYS:H	1:567:A:GLU:HG2	24	0.31
(3,966)	1:542:A:LEU:HB3	1:546:A:LYS:H	7	0.31
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD22	5	0.31
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	5	0.31
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	10	0.31
(3,948)	1:539:A:ASN:HD22	1:583:A:ILE:HD11	19	0.31
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	9	0.31
(3,906)	1:553:A:MET:H	1:529:A:GLU:HG2	17	0.31
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	5	0.31
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	8	0.31
(3,824)	1:559:A:ALA:HB1	1:537:A:VAL:HG13	12	0.31
(3,790)	1:547:A:VAL:HG13	1:561:A:LEU:HD11	3	0.31
(3,779)	1:563:A:MET:HE3	1:561:A:LEU:HD22	5	0.31
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG13	9	0.31
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	22	0.31
(3,742)	1:590:A:ILE:HD12	1:540:A:LEU:HD23	22	0.31
(3,741)	1:599:A:LEU:HD11	1:551:A:ILE:HD11	10	0.31
(3,741)	1:599:A:LEU:HD13	1:521:A:VAL:HG23	23	0.31
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD13	9	0.31
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD11	21	0.31
(3,699)	1:579:A:LYS:HB2	1:575:A:TYR:HB3	8	0.31
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	10	0.31
(3,645)	1:583:A:ILE:HD11	1:527:A:LEU:HA	20	0.31
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	7	0.31
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	2	0.31
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	3	0.31
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	6	0.31
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	11	0.31
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	12	0.31
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	15	0.31
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	19	0.31
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	21	0.31
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	8	0.31
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	1	0.31
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE2	1	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	22	0.31
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	11	0.31
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD22	23	0.31
(3,184)	1:601:A:LEU:HG	1:601:A:LEU:HD22	3	0.31
(3,158)	1:612:A:ILE:HB	1:612:A:ILE:HG23	8	0.31
(3,124)	1:587:A:LYS:HB3	1:587:A:LYS:HE2	3	0.31
(3,124)	1:602:A:LYS:HB2	1:602:A:LYS:HE2	5	0.31
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	7	0.31
(3,83)	1:554:A:LYS:HE3	1:553:A:MET:HB2	16	0.31
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	19	0.31
(3,43)	1:618:A:GLN:HG3	1:616:A:HIS:H	2	0.31
(3,37)	1:610:A:ALA:HB3	1:610:A:ALA:H	16	0.31
(1,1761)	1:610:A:ALA:HB3	1:611:A:ILE:H	3	0.31
(1,1759)	1:609:A:ALA:HB3	1:609:A:ALA:H	15	0.31
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	16	0.31
(1,1537)	1:563:A:MET:HB2	1:565:A:TYR:H	5	0.31
(1,1457)	1:547:A:VAL:HG11	1:549:A:ASN:H	12	0.31
(1,1457)	1:547:A:VAL:HG11	1:549:A:ASN:H	14	0.31
(1,1302)	1:513:A:ALA:HB3	1:514:A:GLN:H	14	0.31
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	25	0.31
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	9	0.31
(1,1135)	1:533:A:THR:HG21	1:532:A:CYS:H	16	0.31
(1,1110)	1:570:A:GLN:HB3	1:570:A:GLN:HE21	12	0.31
(1,1110)	1:570:A:GLN:HB3	1:570:A:GLN:HE21	16	0.31
(1,953)	1:577:A:GLN:HB3	1:574:A:GLN:HA	25	0.31
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	3	0.31
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	11	0.31
(1,908)	1:593:A:SER:HB2	1:521:A:VAL:HG12	12	0.31
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	15	0.31
(1,614)	1:552:A:LEU:HD21	1:550:A:TYR:HE1	23	0.31
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	5	0.31
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	14	0.31
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG23	9	0.31
(1,317)	1:547:A:VAL:HG12	1:549:A:ASN:HA	21	0.31
(1,316)	1:556:A:THR:HG22	1:553:A:MET:HA	1	0.31
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	3	0.31
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD12	19	0.31
(1,298)	1:582:A:ILE:HD12	1:587:A:LYS:HG2	1	0.31
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG13	3	0.31
(1,294)	1:538:A:ILE:HD11	1:534:A:GLU:HB3	5	0.31
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG23	8	0.31
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG21	24	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,265)	1:554:A:LYS:HG2	1:552:A:LEU:HD13	12	0.31
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	22	0.31
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	19	0.31
(1,61)	1:592:A:MET:HE1	1:570:A:GLN:HA	1	0.31
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	9	0.3
(3,1008)	1:522:A:VAL:HG12	1:572:A:MET:H	17	0.3
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	2	0.3
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	4	0.3
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	7	0.3
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	14	0.3
(3,824)	1:559:A:ALA:HB1	1:537:A:VAL:HG11	18	0.3
(3,815)	1:559:A:ALA:HB2	1:552:A:LEU:HG	3	0.3
(3,779)	1:553:A:MET:HE3	1:551:A:ILE:HG22	12	0.3
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD21	16	0.3
(3,751)	1:599:A:LEU:HD11	1:521:A:VAL:HG13	11	0.3
(3,743)	1:599:A:LEU:HD11	1:551:A:ILE:HG22	12	0.3
(3,699)	1:579:A:LYS:HB2	1:575:A:TYR:HB3	23	0.3
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	5	0.3
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	17	0.3
(3,615)	1:550:A:TYR:HB3	1:552:A:LEU:HD13	16	0.3
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	3	0.3
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	9	0.3
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	11	0.3
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG22	12	0.3
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	16	0.3
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	18	0.3
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG22	22	0.3
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	9	0.3
(3,413)	1:567:A:GLU:HB3	1:565:A:TYR:HE2	10	0.3
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	2	0.3
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	12	0.3
(1,1774)	1:613:A:GLN:HB2	1:613:A:GLN:H	10	0.3
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	2	0.3
(1,1708)	1:592:A:MET:HE2	1:570:A:GLN:H	3	0.3
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	7	0.3
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	23	0.3
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	14	0.3
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG11	2	0.3
(1,1117)	1:573:A:VAL:HG12	1:577:A:GLN:HE21	23	0.3
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	19	0.3
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG21	7	0.3
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG22	22	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	15	0.3
(1,525)	1:519:A:GLY:HA3	1:520:A:ARG:H	10	0.3
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	6	0.3
(1,498)	1:515:A:ARG:HB2	1:516:A:LYS:H	18	0.3
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	24	0.3
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	22	0.3
(1,317)	1:547:A:VAL:HG11	1:549:A:ASN:HA	1	0.3
(1,317)	1:547:A:VAL:HG12	1:549:A:ASN:HA	2	0.3
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD11	1	0.3
(1,303)	1:524:A:ILE:HD13	1:590:A:ILE:HD13	22	0.3
(1,298)	1:582:A:ILE:HD11	1:587:A:LYS:HG2	25	0.3
(1,282)	1:513:A:ALA:HB1	1:549:A:ASN:HA	10	0.3
(1,282)	1:513:A:ALA:HB1	1:549:A:ASN:HA	13	0.3
(1,263)	1:538:A:ILE:HA	1:542:A:LEU:HD13	21	0.3
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD21	8	0.3
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD21	12	0.3
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD21	20	0.3
(1,179)	1:610:A:ALA:HB1	1:621:A:ARG:H	5	0.3
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	14	0.3
(1,80)	1:514:A:GLN:HB3	1:518:A:ALA:H	7	0.3
(1,80)	1:514:A:GLN:HB2	1:518:A:ALA:H	14	0.3
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	17	0.3
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE3	3	0.3
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	16	0.29
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	20	0.29
(3,939)	1:527:A:LEU:HD21	1:533:A:THR:H	4	0.29
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	5	0.29
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	8	0.29
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	7	0.29
(3,855)	1:602:A:LYS:HD3	1:603:A:LYS:HG2	22	0.29
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG11	11	0.29
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG11	17	0.29
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	14	0.29
(3,792)	1:547:A:VAL:HG22	1:542:A:LEU:HD21	21	0.29
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD12	1	0.29
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD11	25	0.29
(3,755)	1:540:A:LEU:HG	1:540:A:LEU:HD12	1	0.29
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD13	4	0.29
(3,755)	1:540:A:LEU:HG	1:540:A:LEU:HD12	7	0.29
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	19	0.29
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD13	22	0.29
(3,752)	1:538:A:ILE:HD13	1:552:A:LEU:HD11	14	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG21	23	0.29
(3,741)	1:599:A:LEU:HD12	1:551:A:ILE:HD12	11	0.29
(3,680)	1:580:A:PRO:HG3	1:578:A:GLU:HA	25	0.29
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	22	0.29
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	4	0.29
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	10	0.29
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	18	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	5	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	7	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG22	8	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	10	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	13	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	14	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	17	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	19	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	21	0.29
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	24	0.29
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	16	0.29
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	3	0.29
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	5	0.29
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	6	0.29
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	9	0.29
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	13	0.29
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	16	0.29
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	18	0.29
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	23	0.29
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	25	0.29
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	9	0.29
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	10	0.29
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	10	0.29
(3,51)	1:516:A:LYS:HB2	1:519:A:GLY:HA3	17	0.29
(3,30)	1:612:A:ILE:HD13	1:610:A:ALA:H	7	0.29
(3,7)	1:563:A:MET:HE2	1:542:A:LEU:H	15	0.29
(1,1708)	1:592:A:MET:HE1	1:570:A:GLN:H	9	0.29
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	25	0.29
(1,1685)	1:588:A:LEU:HD13	1:581:A:ALA:H	21	0.29
(1,1457)	1:547:A:VAL:HG13	1:549:A:ASN:H	7	0.29
(1,1457)	1:547:A:VAL:HG13	1:549:A:ASN:H	23	0.29
(1,1405)	1:537:A:VAL:HG21	1:533:A:THR:H	1	0.29
(1,1405)	1:537:A:VAL:HG22	1:533:A:THR:H	2	0.29
(1,1296)	1:611:A:ILE:H	1:613:A:GLN:HG2	3	0.29
(1,1135)	1:533:A:THR:HG23	1:532:A:CYS:H	24	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD11	25	0.29
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	7	0.29
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	14	0.29
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	20	0.29
(1,991)	1:599:A:LEU:HD12	1:521:A:VAL:HG21	5	0.29
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	5	0.29
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	13	0.29
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	25	0.29
(1,341)	1:573:A:VAL:HG13	1:589:A:LEU:HG	2	0.29
(1,309)	1:524:A:ILE:HG21	1:559:A:ALA:HB3	9	0.29
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD13	12	0.29
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG12	16	0.29
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD11	5	0.29
(1,274)	1:563:A:MET:HE3	1:522:A:VAL:HG22	6	0.29
(1,274)	1:563:A:MET:HE3	1:522:A:VAL:HG21	7	0.29
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	14	0.29
(1,154)	1:614:A:ASP:HB2	1:615:A:ILE:H	19	0.29
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB3	2	0.29
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB2	10	0.29
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	2	0.29
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	15	0.29
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	8	0.29
(1,61)	1:592:A:MET:HE2	1:570:A:GLN:HA	9	0.29
(1,61)	1:592:A:MET:HE2	1:570:A:GLN:HA	10	0.29
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE3	19	0.29
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	24	0.29
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG23	11	0.28
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG22	15	0.28
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD13	25	0.28
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE2	4	0.28
(3,1008)	1:522:A:VAL:HG12	1:572:A:MET:H	11	0.28
(3,1008)	1:522:A:VAL:HG13	1:572:A:MET:H	16	0.28
(3,1006)	1:577:A:GLN:HE21	1:572:A:MET:H	11	0.28
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	10	0.28
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	5	0.28
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB3	15	0.28
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD22	6	0.28
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	14	0.28
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG12	24	0.28
(3,811)	1:611:A:ILE:HB	1:611:A:ILE:HG12	8	0.28
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD13	14	0.28
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	3	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,787)	1:583:A:ILE:HB	1:583:A:ILE:HG23	4	0.28
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	6	0.28
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD11	9	0.28
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD13	12	0.28
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD13	13	0.28
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	15	0.28
(3,787)	1:583:A:ILE:HB	1:583:A:ILE:HG22	20	0.28
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	22	0.28
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG22	19	0.28
(3,764)	1:583:A:ILE:HG13	1:540:A:LEU:HD12	4	0.28
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	6	0.28
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	12	0.28
(3,755)	1:540:A:LEU:HG	1:540:A:LEU:HD13	18	0.28
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	25	0.28
(3,752)	1:538:A:ILE:HD11	1:552:A:LEU:HD13	21	0.28
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG21	14	0.28
(3,741)	1:599:A:LEU:HD13	1:521:A:VAL:HG22	1	0.28
(3,680)	1:534:A:GLU:HB3	1:535:A:ASN:HA	18	0.28
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	3	0.28
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	12	0.28
(3,645)	1:583:A:ILE:HD11	1:527:A:LEU:HA	13	0.28
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	1	0.28
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	1	0.28
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	24	0.28
(3,631)	1:614:A:ASP:HB2	1:615:A:ILE:HD12	22	0.28
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG22	1	0.28
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG22	6	0.28
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	23	0.28
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG22	25	0.28
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	1	0.28
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	2	0.28
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	4	0.28
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	7	0.28
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	8	0.28
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	10	0.28
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	11	0.28
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	12	0.28
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	14	0.28
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	15	0.28
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	17	0.28
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	19	0.28
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	20	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,433)	1:577:A:GLN:HE22	1:577:A:GLN:HE21	21	0.28
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	22	0.28
(3,433)	1:600:A:GLN:HE22	1:600:A:GLN:HE21	24	0.28
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	7	0.28
(3,201)	1:560:A:PHE:HB2	1:596:A:TYR:HE1	17	0.28
(3,186)	1:513:A:ALA:HA	1:548:A:THR:HG21	17	0.28
(3,113)	1:528:A:PRO:HG3	1:583:A:ILE:HB	18	0.28
(1,1761)	1:610:A:ALA:HB1	1:611:A:ILE:H	5	0.28
(1,1685)	1:588:A:LEU:HD11	1:581:A:ALA:H	15	0.28
(1,1274)	1:590:A:ILE:H	1:522:A:VAL:HG12	1	0.28
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	18	0.28
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	21	0.28
(1,1234)	1:573:A:VAL:H	1:572:A:MET:HG2	5	0.28
(1,1234)	1:573:A:VAL:H	1:572:A:MET:HG2	22	0.28
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD13	5	0.28
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	1	0.28
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	2	0.28
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	16	0.28
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	10	0.28
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG23	22	0.28
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	12	0.28
(1,392)	1:518:A:ALA:HB3	1:570:A:GLN:HE22	19	0.28
(1,365)	1:528:A:PRO:HD2	1:588:A:LEU:HD23	12	0.28
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG22	8	0.28
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG23	11	0.28
(1,298)	1:582:A:ILE:HD12	1:587:A:LYS:HG2	14	0.28
(1,298)	1:582:A:ILE:HD11	1:587:A:LYS:HG2	17	0.28
(1,297)	1:612:A:ILE:HD11	1:610:A:ALA:HB3	9	0.28
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG12	12	0.28
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG23	2	0.28
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG22	14	0.28
(1,143)	1:554:A:LYS:HE2	1:533:A:THR:HA	25	0.28
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	20	0.28
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	24	0.28
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE3	4	0.28
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD11	7	0.27
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	13	0.27
(3,998)	1:572:A:MET:HE3	1:564:A:ALA:H	5	0.27
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG23	4	0.27
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	1	0.27
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	7	0.27
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD21	11	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	15	0.27
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	22	0.27
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	13	0.27
(3,848)	1:515:A:ARG:HB2	1:515:A:ARG:HG3	13	0.27
(3,808)	1:563:A:MET:HE3	1:561:A:LEU:HD22	5	0.27
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	2	0.27
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	5	0.27
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	8	0.27
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	10	0.27
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	16	0.27
(3,787)	1:583:A:ILE:HB	1:583:A:ILE:HG21	19	0.27
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD11	23	0.27
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	25	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG22	2	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	5	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	7	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG22	9	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG21	10	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG22	13	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG21	14	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	15	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG21	18	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG21	20	0.27
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	24	0.27
(3,771)	1:573:A:VAL:HG11	1:590:A:ILE:HG21	10	0.27
(3,764)	1:599:A:LEU:HG	1:521:A:VAL:HG21	14	0.27
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	14	0.27
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	8	0.27
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD13	13	0.27
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	17	0.27
(3,745)	1:537:A:VAL:HG23	1:527:A:LEU:HD11	18	0.27
(3,743)	1:538:A:ILE:HD13	1:552:A:LEU:HD13	24	0.27
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	24	0.27
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	9	0.27
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	11	0.27
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	25	0.27
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG21	2	0.27
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	4	0.27
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG23	15	0.27
(3,578)	1:533:A:THR:HB	1:533:A:THR:HG22	20	0.27
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	23	0.27
(3,517)	1:553:A:MET:HE3	1:560:A:PHE:HE1	2	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	21	0.27
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	13	0.27
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	23	0.27
(3,200)	1:575:A:TYR:HB2	1:544:A:PHE:HZ	6	0.27
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	3	0.27
(3,134)	1:618:A:GLN:HB3	1:620:A:GLU:HA	6	0.27
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD12	3	0.27
(3,36)	1:592:A:MET:HE1	1:566:A:THR:HA	20	0.27
(1,1759)	1:609:A:ALA:HB2	1:609:A:ALA:H	14	0.27
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	23	0.27
(1,1708)	1:592:A:MET:HE1	1:570:A:GLN:H	1	0.27
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	22	0.27
(1,1592)	1:563:A:MET:H	1:572:A:MET:HE3	9	0.27
(1,1537)	1:563:A:MET:HB2	1:565:A:TYR:H	12	0.27
(1,1537)	1:563:A:MET:HB2	1:565:A:TYR:H	20	0.27
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	2	0.27
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	5	0.27
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	9	0.27
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	15	0.27
(1,1120)	1:519:A:GLY:HA3	1:519:A:GLY:H	16	0.27
(1,1116)	1:614:A:ASP:H	1:615:A:ILE:H	13	0.27
(1,1063)	1:535:A:ASN:HD22	1:535:A:ASN:HB2	18	0.27
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	5	0.27
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	9	0.27
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG23	8	0.27
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD21	2	0.27
(1,495)	1:586:A:GLU:HG2	1:586:A:GLU:H	18	0.27
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	4	0.27
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	10	0.27
(1,341)	1:573:A:VAL:HG11	1:589:A:LEU:HG	16	0.27
(1,337)	1:547:A:VAL:HG13	1:561:A:LEU:HD11	3	0.27
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG22	1	0.27
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	9	0.27
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	19	0.27
(1,310)	1:524:A:ILE:HG23	1:590:A:ILE:HD11	15	0.27
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB2	13	0.27
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG11	19	0.27
(1,278)	1:571:A:ALA:HB2	1:567:A:GLU:HB2	23	0.27
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG22	1	0.27
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG23	5	0.27
(1,274)	1:563:A:MET:HE3	1:522:A:VAL:HG21	12	0.27
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	4	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG22	7	0.27
(1,175)	1:615:A:ILE:HG12	1:615:A:ILE:H	9	0.27
(1,154)	1:614:A:ASP:HB2	1:615:A:ILE:H	3	0.27
(1,149)	1:584:A:ASN:HB3	1:528:A:PRO:HG3	14	0.27
(1,143)	1:554:A:LYS:HE2	1:533:A:THR:HA	8	0.27
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	18	0.27
(1,80)	1:514:A:GLN:HB3	1:518:A:ALA:H	25	0.27
(1,79)	1:546:A:LYS:HD3	1:547:A:VAL:H	16	0.27
(1,61)	1:592:A:MET:HE1	1:570:A:GLN:HA	11	0.27
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	15	0.27
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE1	13	0.27
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	17	0.27
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE2	5	0.26
(3,998)	1:572:A:MET:HE3	1:564:A:ALA:H	22	0.26
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB1	18	0.26
(3,961)	1:544:A:PHE:H	1:561:A:LEU:HD23	8	0.26
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	1	0.26
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	20	0.26
(3,939)	1:527:A:LEU:HD22	1:533:A:THR:H	20	0.26
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	3	0.26
(3,855)	1:590:A:ILE:HG13	1:588:A:LEU:HB2	8	0.26
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD21	16	0.26
(3,805)	1:542:A:LEU:HG	1:542:A:LEU:HD22	14	0.26
(3,792)	1:547:A:VAL:HG23	1:542:A:LEU:HD22	12	0.26
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD13	1	0.26
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	14	0.26
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD12	21	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	3	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG21	4	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	6	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG22	8	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	11	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG21	17	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	21	0.26
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	23	0.26
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	3	0.26
(3,771)	1:573:A:VAL:HG12	1:590:A:ILE:HG22	20	0.26
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	12	0.26
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD13	22	0.26
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD13	23	0.26
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	2	0.26
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD13	3	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,755)	1:540:A:LEU:HG	1:540:A:LEU:HD12	14	0.26
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD11	15	0.26
(3,751)	1:599:A:LEU:HD12	1:521:A:VAL:HG11	25	0.26
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG21	19	0.26
(3,742)	1:588:A:LEU:HD13	1:590:A:ILE:HD11	7	0.26
(3,737)	1:572:A:MET:HG2	1:563:A:MET:HE2	22	0.26
(3,680)	1:534:A:GLU:HB3	1:535:A:ASN:HA	12	0.26
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	2	0.26
(3,616)	1:532:A:CYS:HB3	1:583:A:ILE:HD13	10	0.26
(3,601)	1:532:A:CYS:HA	1:527:A:LEU:HD22	14	0.26
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	4	0.26
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	7	0.26
(3,452)	1:601:A:LEU:HD13	1:601:A:LEU:H	13	0.26
(3,452)	1:601:A:LEU:HD11	1:601:A:LEU:H	15	0.26
(3,431)	1:524:A:ILE:HD12	1:523:A:HIS:HD2	16	0.26
(3,390)	1:540:A:LEU:HD23	1:576:A:TYR:HE2	19	0.26
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	17	0.26
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	25	0.26
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	19	0.26
(3,235)	1:558:A:GLN:HG2	1:553:A:MET:H	8	0.26
(3,134)	1:618:A:GLN:HB3	1:620:A:GLU:HA	2	0.26
(3,134)	1:618:A:GLN:HB3	1:620:A:GLU:HA	22	0.26
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD13	6	0.26
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD12	13	0.26
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD11	22	0.26
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD12	1	0.26
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	13	0.26
(3,18)	1:578:A:GLU:HB2	1:575:A:TYR:HE1	11	0.26
(3,13)	1:572:A:MET:HE2	1:570:A:GLN:H	20	0.26
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG22	4	0.26
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	19	0.26
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	25	0.26
(1,1708)	1:592:A:MET:HE1	1:570:A:GLN:H	13	0.26
(1,1567)	1:567:A:GLU:HG2	1:567:A:GLU:H	8	0.26
(1,1457)	1:547:A:VAL:HG12	1:549:A:ASN:H	3	0.26
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	12	0.26
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	10	0.26
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	19	0.26
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD11	3	0.26
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	3	0.26
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG22	13	0.26
(1,929)	1:554:A:LYS:HD3	1:554:A:LYS:HA	19	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	22	0.26
(1,808)	1:588:A:LEU:HA	1:526:A:ASN:HB3	22	0.26
(1,776)	1:565:A:TYR:HA	1:616:A:HIS:HB2	15	0.26
(1,695)	1:560:A:PHE:HD2	1:596:A:TYR:HE2	2	0.26
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD1	16	0.26
(1,495)	1:586:A:GLU:HG2	1:586:A:GLU:H	23	0.26
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG21	18	0.26
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	7	0.26
(1,298)	1:582:A:ILE:HD11	1:587:A:LYS:HG2	6	0.26
(1,294)	1:538:A:ILE:HD12	1:534:A:GLU:HB3	18	0.26
(1,270)	1:553:A:MET:HE1	1:551:A:ILE:HG22	13	0.26
(1,149)	1:584:A:ASN:HB3	1:528:A:PRO:HG3	21	0.26
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	22	0.26
(1,80)	1:514:A:GLN:HB3	1:518:A:ALA:H	11	0.26
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	22	0.26
(1,61)	1:592:A:MET:HE1	1:570:A:GLN:HA	25	0.26
(1,16)	1:579:A:LYS:HB3	1:575:A:TYR:HE1	11	0.26
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE3	9	0.26
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE1	10	0.26
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	5	0.25
(3,973)	1:598:A:GLU:HB2	1:549:A:ASN:H	10	0.25
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG23	11	0.25
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD12	4	0.25
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	7	0.25
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	10	0.25
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD13	13	0.25
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	15	0.25
(3,787)	1:583:A:ILE:HB	1:583:A:ILE:HG21	7	0.25
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD13	17	0.25
(3,787)	1:611:A:ILE:HG13	1:611:A:ILE:HD11	18	0.25
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG21	1	0.25
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG22	12	0.25
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG23	22	0.25
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG22	25	0.25
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	1	0.25
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	2	0.25
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD13	5	0.25
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD11	15	0.25
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	23	0.25
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD13	25	0.25
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	10	0.25
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD13	20	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD13	23	0.25
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	24	0.25
(3,751)	1:599:A:LEU:HD11	1:521:A:VAL:HG12	7	0.25
(3,751)	1:599:A:LEU:HD11	1:521:A:VAL:HG13	15	0.25
(3,743)	1:538:A:ILE:HD11	1:552:A:LEU:HD11	25	0.25
(3,645)	1:583:A:ILE:HD13	1:527:A:LEU:HA	10	0.25
(3,597)	1:587:A:LYS:HA	1:582:A:ILE:HG12	8	0.25
(3,585)	1:617:A:SER:HB2	1:615:A:ILE:HG21	20	0.25
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	2	0.25
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	6	0.25
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	24	0.25
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	6	0.25
(3,413)	1:534:A:GLU:HG2	1:535:A:ASN:HD22	7	0.25
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	22	0.25
(3,200)	1:595:A:ARG:HD3	1:596:A:TYR:HE2	1	0.25
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD11	4	0.25
(3,124)	1:587:A:LYS:HB3	1:587:A:LYS:HE2	7	0.25
(3,120)	1:597:A:LYS:HB3	1:593:A:SER:HB3	22	0.25
(3,119)	1:514:A:GLN:HG2	1:513:A:ALA:HA	3	0.25
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD12	3	0.25
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	18	0.25
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD11	15	0.25
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	3	0.25
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	14	0.25
(3,18)	1:578:A:GLU:HB2	1:575:A:TYR:HE1	25	0.25
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	13	0.25
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG21	3	0.25
(1,1708)	1:592:A:MET:HE2	1:570:A:GLN:H	10	0.25
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	11	0.25
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	17	0.25
(1,1708)	1:592:A:MET:HE2	1:570:A:GLN:H	19	0.25
(1,1704)	1:591:A:ARG:HG2	1:591:A:ARG:H	21	0.25
(1,1685)	1:588:A:LEU:HD11	1:581:A:ALA:H	18	0.25
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	15	0.25
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	6	0.25
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	12	0.25
(1,1457)	1:547:A:VAL:HG13	1:549:A:ASN:H	17	0.25
(1,1302)	1:513:A:ALA:HB2	1:514:A:GLN:H	20	0.25
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	8	0.25
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	11	0.25
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	12	0.25
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	14	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	15	0.25
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	17	0.25
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	22	0.25
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	25	0.25
(1,1221)	1:569:A:ALA:H	1:522:A:VAL:HG21	9	0.25
(1,1116)	1:614:A:ASP:H	1:615:A:ILE:H	25	0.25
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	5	0.25
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	20	0.25
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG23	22	0.25
(1,991)	1:599:A:LEU:HD12	1:521:A:VAL:HG23	2	0.25
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB3	2	0.25
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB3	11	0.25
(1,744)	1:521:A:VAL:HG11	1:561:A:LEU:H	10	0.25
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD23	16	0.25
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	4	0.25
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	14	0.25
(1,498)	1:515:A:ARG:HB2	1:516:A:LYS:H	5	0.25
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	2	0.25
(1,392)	1:518:A:ALA:HB2	1:570:A:GLN:HE22	9	0.25
(1,391)	1:518:A:ALA:HB2	1:570:A:GLN:HE21	9	0.25
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE3	16	0.25
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG21	3	0.25
(1,316)	1:556:A:THR:HG23	1:553:A:MET:HA	12	0.25
(1,309)	1:524:A:ILE:HG23	1:559:A:ALA:HB3	10	0.25
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	21	0.25
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD12	17	0.25
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	24	0.25
(1,297)	1:612:A:ILE:HD12	1:610:A:ALA:HB2	19	0.25
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG11	10	0.25
(1,276)	1:563:A:MET:HG3	1:572:A:MET:HE3	22	0.25
(1,270)	1:553:A:MET:HE2	1:551:A:ILE:HG22	4	0.25
(1,264)	1:601:A:LEU:HD12	1:549:A:ASN:HA	8	0.25
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD23	21	0.25
(1,179)	1:610:A:ALA:HB3	1:621:A:ARG:H	2	0.25
(1,156)	1:557:A:ASN:HD22	1:529:A:GLU:HG2	18	0.25
(1,143)	1:554:A:LYS:HE2	1:533:A:THR:HA	11	0.25
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	12	0.25
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB3	14	0.25
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	5	0.25
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	8	0.25
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	16	0.25
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	17	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,79)	1:546:A:LYS:HD3	1:547:A:VAL:H	1	0.25
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG23	3	0.24
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG11	6	0.24
(3,1008)	1:522:A:VAL:HG13	1:572:A:MET:H	6	0.24
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	7	0.24
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	22	0.24
(3,964)	1:570:A:GLN:HB2	1:545:A:GLY:H	3	0.24
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB1	10	0.24
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG22	5	0.24
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	23	0.24
(3,787)	1:612:A:ILE:HG13	1:612:A:ILE:HD12	24	0.24
(3,780)	1:537:A:VAL:HB	1:537:A:VAL:HG22	16	0.24
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	4	0.24
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD13	7	0.24
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	8	0.24
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD13	11	0.24
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	16	0.24
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD11	21	0.24
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD13	9	0.24
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD13	21	0.24
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG21	2	0.24
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD13	18	0.24
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	18	0.24
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	20	0.24
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	5	0.24
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	9	0.24
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	23	0.24
(3,628)	1:592:A:MET:HG2	1:522:A:VAL:HG13	14	0.24
(3,601)	1:524:A:ILE:HA	1:527:A:LEU:HD23	22	0.24
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	2	0.24
(3,415)	1:563:A:MET:HE1	1:576:A:TYR:HE1	16	0.24
(3,413)	1:534:A:GLU:HG2	1:535:A:ASN:HD22	14	0.24
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD21	1	0.24
(3,161)	1:563:A:MET:HE3	1:561:A:LEU:HD21	23	0.24
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD12	2	0.24
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD13	8	0.24
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD13	9	0.24
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD11	11	0.24
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD13	16	0.24
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD11	19	0.24
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD13	20	0.24
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD13	23	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	16	0.24
(3,83)	1:554:A:LYS:HE3	1:553:A:MET:HB2	23	0.24
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD12	24	0.24
(3,9)	1:563:A:MET:HE1	1:576:A:TYR:HE1	13	0.24
(1,1708)	1:592:A:MET:HE1	1:570:A:GLN:H	6	0.24
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	4	0.24
(1,1606)	1:574:A:GLN:HG2	1:574:A:GLN:H	16	0.24
(1,1457)	1:547:A:VAL:HG13	1:549:A:ASN:H	10	0.24
(1,1457)	1:547:A:VAL:HG11	1:549:A:ASN:H	13	0.24
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	16	0.24
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	3	0.24
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	6	0.24
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	13	0.24
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	24	0.24
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	24	0.24
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	14	0.24
(1,1108)	1:563:A:MET:HB3	1:571:A:ALA:H	25	0.24
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	8	0.24
(1,1069)	1:549:A:ASN:HB3	1:549:A:ASN:HD22	22	0.24
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG23	10	0.24
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG23	24	0.24
(1,991)	1:599:A:LEU:HD11	1:521:A:VAL:HG21	7	0.24
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG23	9	0.24
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	4	0.24
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	7	0.24
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB1	8	0.24
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB3	14	0.24
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	19	0.24
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD23	3	0.24
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	13	0.24
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	3	0.24
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	15	0.24
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD13	14	0.24
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG23	23	0.24
(1,317)	1:547:A:VAL:HG11	1:549:A:ASN:HA	12	0.24
(1,316)	1:556:A:THR:HG21	1:553:A:MET:HA	4	0.24
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	9	0.24
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	18	0.24
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG12	14	0.24
(1,296)	1:538:A:ILE:HD11	1:547:A:VAL:HG11	23	0.24
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD11	15	0.24
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD11	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG21	18	0.24
(1,249)	1:620:A:GLU:HB2	1:612:A:ILE:HG12	8	0.24
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	24	0.24
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	4	0.24
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	11	0.24
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE3	15	0.24
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	25	0.23
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG22	21	0.23
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD11	19	0.23
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	1	0.23
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	19	0.23
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG23	17	0.23
(3,958)	1:536:A:ASP:HB3	1:542:A:LEU:H	22	0.23
(3,942)	1:536:A:ASP:H	1:552:A:LEU:HD21	2	0.23
(3,939)	1:527:A:LEU:HD22	1:533:A:THR:H	2	0.23
(3,924)	1:602:A:LYS:H	1:601:A:LEU:HD12	2	0.23
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	18	0.23
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	22	0.23
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	12	0.23
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	14	0.23
(3,792)	1:547:A:VAL:HG22	1:542:A:LEU:HD23	15	0.23
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	12	0.23
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD11	20	0.23
(3,790)	1:547:A:VAL:HG13	1:561:A:LEU:HD11	22	0.23
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD11	25	0.23
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	3	0.23
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD13	10	0.23
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD11	13	0.23
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD11	17	0.23
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD11	18	0.23
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD11	19	0.23
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	20	0.23
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD13	21	0.23
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD11	11	0.23
(3,742)	1:588:A:LEU:HD13	1:590:A:ILE:HD11	11	0.23
(3,737)	1:572:A:MET:HG2	1:563:A:MET:HE1	16	0.23
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	6	0.23
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	2	0.23
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	10	0.23
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	16	0.23
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	15	0.23
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	14	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,143)	1:553:A:MET:HG2	1:551:A:ILE:HG13	23	0.23
(3,138)	1:534:A:GLU:HB3	1:549:A:ASN:HA	8	0.23
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	5	0.23
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD12	1	0.23
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD11	4	0.23
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD12	7	0.23
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD13	12	0.23
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	1	0.23
(3,87)	1:552:A:LEU:HD11	1:554:A:LYS:HE3	7	0.23
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	1	0.23
(3,19)	1:594:A:THR:HB	1:596:A:TYR:HA	9	0.23
(1,1708)	1:592:A:MET:HE1	1:570:A:GLN:H	5	0.23
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	24	0.23
(1,1537)	1:563:A:MET:HB2	1:565:A:TYR:H	16	0.23
(1,1457)	1:547:A:VAL:HG13	1:549:A:ASN:H	24	0.23
(1,1405)	1:537:A:VAL:HG21	1:533:A:THR:H	4	0.23
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	18	0.23
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	16	0.23
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	19	0.23
(1,1234)	1:573:A:VAL:H	1:572:A:MET:HG2	16	0.23
(1,1175)	1:545:A:GLY:HA3	1:546:A:LYS:H	22	0.23
(1,1108)	1:563:A:MET:HB3	1:571:A:ALA:H	22	0.23
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG22	3	0.23
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG23	6	0.23
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG23	8	0.23
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG21	12	0.23
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG22	19	0.23
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG23	22	0.23
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	16	0.23
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG23	8	0.23
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG21	19	0.23
(1,971)	1:570:A:GLN:HG2	1:569:A:ALA:HB1	12	0.23
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	1	0.23
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	16	0.23
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB1	17	0.23
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB1	23	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB1	3	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	6	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	9	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB3	12	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB3	13	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB3	15	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	16	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB1	21	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	24	0.23
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB1	25	0.23
(1,844)	1:598:A:GLU:HA	1:521:A:VAL:HG22	14	0.23
(1,722)	1:540:A:LEU:HD11	1:590:A:ILE:HD11	5	0.23
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD23	7	0.23
(1,525)	1:519:A:GLY:HA3	1:520:A:ARG:H	20	0.23
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	20	0.23
(1,482)	1:529:A:GLU:HG2	1:529:A:GLU:H	17	0.23
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	1	0.23
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	19	0.23
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	22	0.23
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE1	10	0.23
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	20	0.23
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG21	22	0.23
(1,316)	1:556:A:THR:HG21	1:553:A:MET:HA	14	0.23
(1,310)	1:524:A:ILE:HG22	1:590:A:ILE:HD11	20	0.23
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG13	2	0.23
(1,284)	1:581:A:ALA:HB2	1:540:A:LEU:HD11	5	0.23
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG23	13	0.23
(1,239)	1:534:A:GLU:HB2	1:538:A:ILE:HG21	12	0.23
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	19	0.23
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	10	0.23
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	12	0.23
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	19	0.23
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	25	0.23
(1,80)	1:514:A:GLN:HB3	1:518:A:ALA:H	4	0.23
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	2	0.23
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	14	0.23
(3,1037)	1:596:A:TYR:H	1:522:A:VAL:HG11	16	0.22
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD12	5	0.22
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG23	10	0.22
(3,970)	1:548:A:THR:H	1:606:A:LYS:HE2	9	0.22
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	2	0.22
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	24	0.22
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	11	0.22
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	20	0.22
(3,895)	1:520:A:ARG:H	1:597:A:LYS:HE3	4	0.22
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	17	0.22
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG13	20	0.22
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	1	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD13	22	0.22
(3,795)	1:537:A:VAL:HG22	1:527:A:LEU:HD22	18	0.22
(3,792)	1:564:A:ALA:HB2	1:548:A:THR:HG23	1	0.22
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	9	0.22
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	19	0.22
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD12	24	0.22
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	23	0.22
(3,774)	1:559:A:ALA:HB1	1:537:A:VAL:HG11	25	0.22
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	6	0.22
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD12	9	0.22
(3,760)	1:588:A:LEU:HG	1:588:A:LEU:HD13	24	0.22
(3,752)	1:538:A:ILE:HD12	1:552:A:LEU:HD13	5	0.22
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG12	1	0.22
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG11	22	0.22
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD12	2	0.22
(3,709)	1:592:A:MET:HE1	1:570:A:GLN:HA	16	0.22
(3,709)	1:592:A:MET:HE1	1:570:A:GLN:HA	20	0.22
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD12	1	0.22
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD12	15	0.22
(3,653)	1:540:A:LEU:HB3	1:543:A:PRO:HD3	2	0.22
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	3	0.22
(3,601)	1:524:A:ILE:HA	1:588:A:LEU:HD11	9	0.22
(3,557)	1:563:A:MET:HB3	1:569:A:ALA:HA	14	0.22
(3,518)	1:572:A:MET:HE3	1:544:A:PHE:HD1	2	0.22
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE2	20	0.22
(3,200)	1:595:A:ARG:HD2	1:596:A:TYR:HE2	18	0.22
(3,143)	1:553:A:MET:HG3	1:551:A:ILE:HG13	15	0.22
(3,119)	1:514:A:GLN:HG3	1:513:A:ALA:HA	19	0.22
(3,115)	1:611:A:ILE:HB	1:611:A:ILE:HD11	5	0.22
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD13	14	0.22
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD13	15	0.22
(3,13)	1:572:A:MET:HE2	1:570:A:GLN:H	24	0.22
(1,1795)	1:621:A:ARG:H	1:621:A:ARG:HG2	8	0.22
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	2	0.22
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	7	0.22
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	8	0.22
(1,1708)	1:592:A:MET:HE1	1:570:A:GLN:H	16	0.22
(1,1685)	1:588:A:LEU:HD12	1:581:A:ALA:H	16	0.22
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	22	0.22
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	25	0.22
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	1	0.22
(1,1457)	1:547:A:VAL:HG13	1:549:A:ASN:H	18	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	9	0.22
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	1	0.22
(1,1135)	1:533:A:THR:HG23	1:532:A:CYS:H	11	0.22
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	24	0.22
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG23	2	0.22
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG23	4	0.22
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG22	5	0.22
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG22	15	0.22
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG21	20	0.22
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG21	23	0.22
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	2	0.22
(1,991)	1:599:A:LEU:HD11	1:521:A:VAL:HG21	15	0.22
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB1	20	0.22
(1,971)	1:570:A:GLN:HG2	1:569:A:ALA:HB2	22	0.22
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	22	0.22
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	1	0.22
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	3	0.22
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	5	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	2	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	7	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	9	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB1	10	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB3	11	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB3	12	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	15	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB1	18	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	21	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB3	24	0.22
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB1	25	0.22
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	1	0.22
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB1	10	0.22
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB1	20	0.22
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB1	22	0.22
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD23	20	0.22
(1,722)	1:540:A:LEU:HD12	1:590:A:ILE:HD12	25	0.22
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	10	0.22
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	12	0.22
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD22	23	0.22
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	18	0.22
(1,486)	1:562:A:GLU:HG2	1:563:A:MET:H	21	0.22
(1,482)	1:529:A:GLU:HG2	1:529:A:GLU:H	7	0.22
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	11	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	17	0.22
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE2	25	0.22
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD12	4	0.22
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD13	13	0.22
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG22	2	0.22
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG21	12	0.22
(1,317)	1:547:A:VAL:HG11	1:549:A:ASN:HA	13	0.22
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	23	0.22
(1,316)	1:556:A:THR:HG23	1:553:A:MET:HA	17	0.22
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	5	0.22
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	7	0.22
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG22	20	0.22
(1,143)	1:554:A:LYS:HE2	1:533:A:THR:HA	9	0.22
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB3	7	0.22
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB3	8	0.22
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	7	0.22
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	21	0.22
(1,61)	1:592:A:MET:HE1	1:570:A:GLN:HA	13	0.22
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB1	23	0.22
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD13	12	0.21
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD11	15	0.21
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD13	17	0.21
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE2	10	0.21
(3,1006)	1:577:A:GLN:HE21	1:572:A:MET:H	7	0.21
(3,998)	1:572:A:MET:HE3	1:564:A:ALA:H	9	0.21
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG21	8	0.21
(3,973)	1:549:A:ASN:H	1:512:A:MET:HE2	23	0.21
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	1	0.21
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	4	0.21
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	15	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	1	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	2	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	3	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	4	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	5	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	6	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	7	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	8	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	9	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	10	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	11	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	12	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	13	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	14	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	15	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	16	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	18	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	19	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	20	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	21	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	22	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	23	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	24	0.21
(3,850)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	25	0.21
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG12	14	0.21
(3,802)	1:561:A:LEU:HB3	1:537:A:VAL:HG13	2	0.21
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	6	0.21
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	2	0.21
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	4	0.21
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD13	5	0.21
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD11	15	0.21
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	23	0.21
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD13	25	0.21
(3,790)	1:547:A:VAL:HG13	1:561:A:LEU:HD12	6	0.21
(3,787)	1:583:A:ILE:HB	1:583:A:ILE:HG23	11	0.21
(3,779)	1:563:A:MET:HE3	1:561:A:LEU:HD21	23	0.21
(3,774)	1:559:A:ALA:HB3	1:537:A:VAL:HG11	2	0.21
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	21	0.21
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD11	5	0.21
(3,752)	1:538:A:ILE:HD12	1:552:A:LEU:HD12	4	0.21
(3,743)	1:599:A:LEU:HD11	1:551:A:ILE:HG21	22	0.21
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD11	7	0.21
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD12	12	0.21
(3,737)	1:572:A:MET:HG2	1:563:A:MET:HE1	5	0.21
(3,699)	1:579:A:LYS:HB2	1:575:A:TYR:HB3	9	0.21
(3,699)	1:564:A:ALA:HB1	1:546:A:LYS:HE2	24	0.21
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	7	0.21
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	20	0.21
(3,654)	1:604:A:PRO:HD3	1:603:A:LYS:HB3	1	0.21
(3,518)	1:572:A:MET:HE3	1:544:A:PHE:HD1	24	0.21
(3,430)	1:521:A:VAL:HG12	1:596:A:TYR:HE1	17	0.21
(3,176)	1:583:A:ILE:HG21	1:586:A:GLU:HB2	16	0.21
(3,124)	1:587:A:LYS:HB2	1:587:A:LYS:HE2	2	0.21
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD12	25	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD11	6	0.21
(3,13)	1:572:A:MET:HE1	1:570:A:GLN:H	10	0.21
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	24	0.21
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	10	0.21
(1,1748)	1:603:A:LYS:H	1:603:A:LYS:HG2	4	0.21
(1,1708)	1:592:A:MET:HE2	1:570:A:GLN:H	4	0.21
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	4	0.21
(1,1312)	1:518:A:ALA:HB3	1:519:A:GLY:H	12	0.21
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	4	0.21
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	7	0.21
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	3	0.21
(1,1135)	1:533:A:THR:HG23	1:532:A:CYS:H	21	0.21
(1,1116)	1:614:A:ASP:H	1:615:A:ILE:H	20	0.21
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD13	17	0.21
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG23	14	0.21
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG22	18	0.21
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	12	0.21
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	14	0.21
(1,991)	1:599:A:LEU:HD12	1:521:A:VAL:HG22	9	0.21
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB2	25	0.21
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG21	16	0.21
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	18	0.21
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	4	0.21
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB1	6	0.21
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB1	13	0.21
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	19	0.21
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB3	20	0.21
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	17	0.21
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	18	0.21
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB2	23	0.21
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD23	22	0.21
(1,724)	1:547:A:VAL:H	1:538:A:ILE:HG22	13	0.21
(1,722)	1:540:A:LEU:HD11	1:590:A:ILE:HD11	11	0.21
(1,722)	1:540:A:LEU:HD12	1:590:A:ILE:HD12	24	0.21
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD22	3	0.21
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD23	6	0.21
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD22	9	0.21
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	15	0.21
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	17	0.21
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	18	0.21
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD22	24	0.21
(1,695)	1:560:A:PHE:HD2	1:596:A:TYR:HE2	23	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,482)	1:529:A:GLU:HG2	1:529:A:GLU:H	12	0.21
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	16	0.21
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	18	0.21
(1,391)	1:518:A:ALA:HB3	1:570:A:GLN:HE21	6	0.21
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	7	0.21
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	10	0.21
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	15	0.21
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG21	4	0.21
(1,317)	1:547:A:VAL:HG11	1:549:A:ASN:HA	25	0.21
(1,309)	1:524:A:ILE:HG22	1:559:A:ALA:HB3	15	0.21
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD12	7	0.21
(1,284)	1:581:A:ALA:HB3	1:540:A:LEU:HD12	16	0.21
(1,284)	1:581:A:ALA:HB3	1:540:A:LEU:HD13	23	0.21
(1,282)	1:513:A:ALA:HB1	1:549:A:ASN:HA	7	0.21
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG21	21	0.21
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	14	0.21
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	20	0.21
(1,149)	1:584:A:ASN:HB3	1:528:A:PRO:HG3	22	0.21
(1,143)	1:554:A:LYS:HE2	1:533:A:THR:HA	3	0.21
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	7	0.21
(1,61)	1:592:A:MET:HE3	1:570:A:GLN:HA	24	0.21
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG21	9	0.21
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE3	7	0.21
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE1	21	0.21
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE1	23	0.21
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	25	0.21
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	2	0.2
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	3	0.2
(3,998)	1:572:A:MET:HE1	1:564:A:ALA:H	19	0.2
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG23	18	0.2
(3,966)	1:542:A:LEU:HB3	1:546:A:LYS:H	15	0.2
(3,939)	1:527:A:LEU:HD21	1:533:A:THR:H	7	0.2
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	13	0.2
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	3	0.2
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG13	15	0.2
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD13	7	0.2
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	8	0.2
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD13	11	0.2
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	16	0.2
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD11	17	0.2
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD11	19	0.2
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD13	21	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	11	0.2
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	17	0.2
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	3	0.2
(3,774)	1:559:A:ALA:HB3	1:537:A:VAL:HG12	1	0.2
(3,759)	1:600:A:GLN:HB2	1:551:A:ILE:HD11	12	0.2
(3,742)	1:588:A:LEU:HD12	1:590:A:ILE:HD13	1	0.2
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD11	20	0.2
(3,670)	1:540:A:LEU:HG	1:537:A:VAL:HA	7	0.2
(3,664)	1:532:A:CYS:HB3	1:583:A:ILE:HD13	10	0.2
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	25	0.2
(3,645)	1:583:A:ILE:HD12	1:527:A:LEU:HA	15	0.2
(3,636)	1:587:A:LYS:HA	1:582:A:ILE:HB	13	0.2
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	10	0.2
(3,451)	1:582:A:ILE:HD12	1:585:A:GLY:H	13	0.2
(3,451)	1:582:A:ILE:HD13	1:585:A:GLY:H	14	0.2
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	13	0.2
(3,430)	1:521:A:VAL:HG11	1:596:A:TYR:HE1	5	0.2
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	18	0.2
(3,119)	1:514:A:GLN:HG2	1:513:A:ALA:HA	9	0.2
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD12	17	0.2
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD11	18	0.2
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD11	21	0.2
(3,83)	1:554:A:LYS:HE3	1:553:A:MET:HB2	7	0.2
(3,9)	1:563:A:MET:HE2	1:576:A:TYR:HE1	25	0.2
(1,1759)	1:609:A:ALA:HB2	1:609:A:ALA:H	3	0.2
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	9	0.2
(1,1545)	1:564:A:ALA:HB2	1:565:A:TYR:H	8	0.2
(1,1312)	1:518:A:ALA:HB3	1:519:A:GLY:H	22	0.2
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	20	0.2
(1,1249)	1:580:A:PRO:HG3	1:578:A:GLU:H	23	0.2
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	10	0.2
(1,1135)	1:533:A:THR:HG23	1:532:A:CYS:H	23	0.2
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	3	0.2
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG23	11	0.2
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG23	16	0.2
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG22	25	0.2
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	7	0.2
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD12	5	0.2
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	2	0.2
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	6	0.2
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD23	9	0.2
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD23	13	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	15	0.2
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	20	0.2
(1,929)	1:554:A:LYS:HD3	1:554:A:LYS:HA	18	0.2
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	3	0.2
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB3	14	0.2
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB2	22	0.2
(1,850)	1:569:A:ALA:HA	1:569:A:ALA:HB3	5	0.2
(1,722)	1:540:A:LEU:HD13	1:590:A:ILE:HD11	21	0.2
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD21	19	0.2
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD22	1	0.2
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD23	8	0.2
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD23	11	0.2
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	16	0.2
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	15	0.2
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	8	0.2
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	9	0.2
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG23	14	0.2
(1,391)	1:518:A:ALA:HB2	1:570:A:GLN:HE21	18	0.2
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD11	20	0.2
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	23	0.2
(1,333)	1:546:A:LYS:HG2	1:548:A:THR:HA	10	0.2
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG22	14	0.2
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD13	23	0.2
(1,298)	1:582:A:ILE:HD12	1:587:A:LYS:HG2	15	0.2
(1,298)	1:582:A:ILE:HD12	1:587:A:LYS:HG2	16	0.2
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	19	0.2
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD13	20	0.2
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD12	12	0.2
(1,276)	1:563:A:MET:HG3	1:572:A:MET:HE1	9	0.2
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG22	8	0.2
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG22	14	0.2
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG23	22	0.2
(1,267)	1:583:A:ILE:HG21	1:528:A:PRO:HD3	25	0.2
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD22	9	0.2
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	6	0.2
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB3	21	0.2
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	3	0.2
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB1	12	0.2
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	25	0.19
(3,967)	1:546:A:LYS:H	1:567:A:GLU:HG2	13	0.19
(3,966)	1:542:A:LEU:HB3	1:546:A:LYS:H	3	0.19
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB2	2	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB2	6	0.19
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB2	20	0.19
(3,949)	1:561:A:LEU:HD21	1:539:A:ASN:HD22	6	0.19
(3,939)	1:527:A:LEU:HD21	1:533:A:THR:H	18	0.19
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	3	0.19
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD13	10	0.19
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD11	13	0.19
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD11	18	0.19
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	20	0.19
(3,792)	1:547:A:VAL:HG22	1:542:A:LEU:HD23	2	0.19
(3,790)	1:547:A:VAL:HG13	1:561:A:LEU:HD12	2	0.19
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	4	0.19
(3,755)	1:540:A:LEU:HB3	1:540:A:LEU:HD12	16	0.19
(3,752)	1:538:A:ILE:HD13	1:552:A:LEU:HD12	11	0.19
(3,745)	1:537:A:VAL:HG22	1:527:A:LEU:HD11	7	0.19
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD12	5	0.19
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	10	0.19
(3,637)	1:552:A:LEU:HA	1:554:A:LYS:HG2	24	0.19
(3,615)	1:550:A:TYR:HB3	1:561:A:LEU:HD21	3	0.19
(3,601)	1:532:A:CYS:HA	1:527:A:LEU:HD23	1	0.19
(3,601)	1:524:A:ILE:HA	1:527:A:LEU:HD23	13	0.19
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	3	0.19
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	19	0.19
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	20	0.19
(3,200)	1:595:A:ARG:HD3	1:596:A:TYR:HE2	21	0.19
(3,166)	1:620:A:GLU:HA	1:612:A:ILE:HD13	2	0.19
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD23	3	0.19
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD21	9	0.19
(3,143)	1:514:A:GLN:HG2	1:562:A:GLU:HB3	4	0.19
(3,115)	1:612:A:ILE:HB	1:612:A:ILE:HD11	24	0.19
(3,51)	1:516:A:LYS:HB2	1:519:A:GLY:HA3	18	0.19
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	25	0.19
(3,43)	1:618:A:GLN:HG2	1:616:A:HIS:H	21	0.19
(3,9)	1:563:A:MET:HE3	1:576:A:TYR:HE1	9	0.19
(1,1783)	1:618:A:GLN:HB2	1:618:A:GLN:H	15	0.19
(1,1761)	1:610:A:ALA:HB2	1:611:A:ILE:H	10	0.19
(1,1685)	1:588:A:LEU:HD13	1:581:A:ALA:H	10	0.19
(1,1685)	1:588:A:LEU:HD12	1:581:A:ALA:H	12	0.19
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	2	0.19
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	2	0.19
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	3	0.19
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	5	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	11	0.19
(1,1545)	1:564:A:ALA:HB2	1:565:A:TYR:H	17	0.19
(1,1543)	1:564:A:ALA:HB2	1:546:A:LYS:H	19	0.19
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	1	0.19
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	3	0.19
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	17	0.19
(1,1405)	1:537:A:VAL:HG21	1:533:A:THR:H	17	0.19
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	18	0.19
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	24	0.19
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	14	0.19
(1,1217)	1:568:A:ALA:H	1:516:A:LYS:HB2	23	0.19
(1,1186)	1:550:A:TYR:H	1:601:A:LEU:HD21	7	0.19
(1,1115)	1:614:A:ASP:HB3	1:615:A:ILE:H	13	0.19
(1,1108)	1:563:A:MET:HB3	1:571:A:ALA:H	16	0.19
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	16	0.19
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	17	0.19
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG22	1	0.19
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG22	21	0.19
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	4	0.19
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD12	6	0.19
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	10	0.19
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	25	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD23	1	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD23	10	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	11	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	17	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD23	18	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	22	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD23	23	0.19
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	24	0.19
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG12	10	0.19
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG23	13	0.19
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG21	20	0.19
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	24	0.19
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB1	5	0.19
(1,831)	1:572:A:MET:HE3	1:563:A:MET:HA	14	0.19
(1,722)	1:540:A:LEU:HD13	1:590:A:ILE:HD12	3	0.19
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	2	0.19
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD22	14	0.19
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	19	0.19
(1,585)	1:616:A:HIS:HB2	1:565:A:TYR:HD2	14	0.19
(1,498)	1:515:A:ARG:HB2	1:516:A:LYS:H	12	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	21	0.19
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	2	0.19
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG22	10	0.19
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG22	13	0.19
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	23	0.19
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG22	24	0.19
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	14	0.19
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	12	0.19
(1,337)	1:547:A:VAL:HG13	1:561:A:LEU:HD11	22	0.19
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD12	24	0.19
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD11	25	0.19
(1,316)	1:556:A:THR:HG21	1:553:A:MET:HA	2	0.19
(1,310)	1:524:A:ILE:HG21	1:590:A:ILE:HD12	6	0.19
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD12	10	0.19
(1,298)	1:582:A:ILE:HD11	1:587:A:LYS:HG2	3	0.19
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	21	0.19
(1,298)	1:582:A:ILE:HD11	1:587:A:LYS:HG2	22	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG23	1	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	2	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	4	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG22	5	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	7	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	9	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG23	10	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG22	11	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	13	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	15	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG23	16	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG22	17	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG22	19	0.19
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG23	24	0.19
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD22	16	0.19
(1,154)	1:614:A:ASP:HB2	1:615:A:ILE:H	25	0.19
(1,123)	1:620:A:GLU:HA	1:610:A:ALA:HB1	8	0.19
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	1	0.19
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	20	0.19
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD11	3	0.18
(3,973)	1:549:A:ASN:H	1:512:A:MET:HE1	18	0.18
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB1	21	0.18
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	4	0.18
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG22	15	0.18
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	6	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD12	9	0.18
(3,799)	1:588:A:LEU:HG	1:588:A:LEU:HD13	24	0.18
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	5	0.18
(3,790)	1:547:A:VAL:HG13	1:561:A:LEU:HD11	8	0.18
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	16	0.18
(3,790)	1:547:A:VAL:HG13	1:561:A:LEU:HD13	21	0.18
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD12	1	0.18
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD13	25	0.18
(3,752)	1:538:A:ILE:HD12	1:552:A:LEU:HD13	15	0.18
(3,741)	1:599:A:LEU:HD12	1:521:A:VAL:HG23	2	0.18
(3,708)	1:613:A:GLN:HB3	1:615:A:ILE:HA	10	0.18
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	4	0.18
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	6	0.18
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	21	0.18
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	24	0.18
(3,653)	1:540:A:LEU:HB3	1:543:A:PRO:HD3	22	0.18
(3,601)	1:532:A:CYS:HA	1:527:A:LEU:HD22	6	0.18
(3,594)	1:526:A:ASN:HB3	1:588:A:LEU:HD21	1	0.18
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	17	0.18
(3,452)	1:601:A:LEU:HD11	1:601:A:LEU:H	6	0.18
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	5	0.18
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD23	19	0.18
(3,143)	1:514:A:GLN:HG2	1:516:A:LYS:HG3	14	0.18
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	3	0.18
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	21	0.18
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	25	0.18
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	22	0.18
(3,19)	1:594:A:THR:HB	1:596:A:TYR:HA	1	0.18
(3,19)	1:594:A:THR:HB	1:596:A:TYR:HA	25	0.18
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	21	0.18
(3,13)	1:572:A:MET:HE2	1:570:A:GLN:H	2	0.18
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	18	0.18
(1,1761)	1:610:A:ALA:HB2	1:611:A:ILE:H	13	0.18
(1,1759)	1:609:A:ALA:HB3	1:609:A:ALA:H	8	0.18
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	12	0.18
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	9	0.18
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	10	0.18
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	1	0.18
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	8	0.18
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	21	0.18
(1,1456)	1:547:A:VAL:HG12	1:548:A:THR:H	10	0.18
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	4	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	14	0.18
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	17	0.18
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	19	0.18
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	3	0.18
(1,1135)	1:533:A:THR:HG22	1:532:A:CYS:H	4	0.18
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	9	0.18
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	21	0.18
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD11	9	0.18
(1,1029)	1:520:A:ARG:HB2	1:569:A:ALA:HB1	6	0.18
(1,1029)	1:520:A:ARG:HB2	1:569:A:ALA:HB2	10	0.18
(1,1027)	1:540:A:LEU:HD23	1:581:A:ALA:HB3	6	0.18
(1,1013)	1:527:A:LEU:HD11	1:524:A:ILE:HG21	9	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	1	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD12	9	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD11	14	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	15	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD12	20	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD11	21	0.18
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD11	23	0.18
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD12	11	0.18
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	21	0.18
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	23	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG22	5	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	6	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	7	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	8	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	9	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	11	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	13	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	19	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	20	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	21	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG22	22	0.18
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	25	0.18
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	3	0.18
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	4	0.18
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD23	5	0.18
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	12	0.18
(1,908)	1:593:A:SER:HB2	1:521:A:VAL:HG13	5	0.18
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG21	4	0.18
(1,865)	1:559:A:ALA:HA	1:559:A:ALA:HB3	8	0.18
(1,722)	1:540:A:LEU:HD11	1:590:A:ILE:HD13	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,722)	1:540:A:LEU:HD12	1:590:A:ILE:HD13	16	0.18
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	5	0.18
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD22	13	0.18
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD22	20	0.18
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	21	0.18
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD23	25	0.18
(1,525)	1:519:A:GLY:HA3	1:520:A:ARG:H	11	0.18
(1,525)	1:519:A:GLY:HA3	1:520:A:ARG:H	25	0.18
(1,498)	1:515:A:ARG:HB2	1:516:A:LYS:H	21	0.18
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	7	0.18
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	19	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG22	3	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG23	4	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG22	5	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG23	6	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	7	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	9	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	11	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG22	12	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG23	15	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG23	17	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG22	19	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	22	0.18
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG22	25	0.18
(1,392)	1:518:A:ALA:HB2	1:570:A:GLN:HE22	20	0.18
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE3	5	0.18
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	12	0.18
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	9	0.18
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	19	0.18
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG23	21	0.18
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	17	0.18
(1,316)	1:556:A:THR:HG23	1:553:A:MET:HA	19	0.18
(1,310)	1:524:A:ILE:HG23	1:590:A:ILE:HD13	13	0.18
(1,298)	1:582:A:ILE:HD11	1:587:A:LYS:HG2	2	0.18
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	20	0.18
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD11	8	0.18
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD13	21	0.18
(1,284)	1:581:A:ALA:HB2	1:540:A:LEU:HD12	8	0.18
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD12	25	0.18
(1,274)	1:563:A:MET:HE1	1:522:A:VAL:HG21	16	0.18
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG22	10	0.18
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	21	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG22	3	0.18
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	6	0.18
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	12	0.18
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	18	0.18
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	20	0.18
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG21	21	0.18
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG22	23	0.18
(1,269)	1:551:A:ILE:HB	1:551:A:ILE:HG23	25	0.18
(1,267)	1:583:A:ILE:HG21	1:528:A:PRO:HD3	6	0.18
(1,115)	1:580:A:PRO:HG3	1:578:A:GLU:HA	9	0.18
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB2	14	0.18
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB1	18	0.18
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB2	20	0.18
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE3	6	0.18
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD13	2	0.17
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD11	6	0.17
(3,1001)	1:567:A:GLU:H	1:520:A:ARG:HB2	17	0.17
(3,966)	1:542:A:LEU:HB3	1:546:A:LYS:H	13	0.17
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	4	0.17
(3,922)	1:615:A:ILE:HD13	1:615:A:ILE:H	5	0.17
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	11	0.17
(3,824)	1:559:A:ALA:HB3	1:537:A:VAL:HG11	8	0.17
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG11	19	0.17
(3,808)	1:563:A:MET:HE3	1:561:A:LEU:HD21	23	0.17
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	7	0.17
(3,790)	1:547:A:VAL:HG11	1:561:A:LEU:HD12	18	0.17
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG23	4	0.17
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG22	5	0.17
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD13	7	0.17
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD13	11	0.17
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG21	12	0.17
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG23	14	0.17
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD12	16	0.17
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG21	23	0.17
(3,752)	1:538:A:ILE:HD12	1:552:A:LEU:HD13	8	0.17
(3,742)	1:588:A:LEU:HD12	1:590:A:ILE:HD13	8	0.17
(3,741)	1:599:A:LEU:HD11	1:521:A:VAL:HG21	7	0.17
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	23	0.17
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	19	0.17
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	6	0.17
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	19	0.17
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	9	0.17
(3,447)	1:613:A:GLN:H	1:612:A:ILE:HG23	10	0.17
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	4	0.17
(3,395)	1:543:A:PRO:HG2	1:544:A:PHE:HE1	23	0.17
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	2	0.17
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	11	0.17
(3,161)	1:563:A:MET:HE1	1:561:A:LEU:HD23	22	0.17
(3,161)	1:563:A:MET:HE1	1:561:A:LEU:HD21	24	0.17
(3,161)	1:563:A:MET:HE1	1:561:A:LEU:HD23	25	0.17
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD11	7	0.17
(3,19)	1:594:A:THR:HB	1:596:A:TYR:HA	23	0.17
(3,18)	1:578:A:GLU:HB2	1:575:A:TYR:HE1	3	0.17
(3,13)	1:572:A:MET:HE1	1:570:A:GLN:H	1	0.17
(3,9)	1:563:A:MET:HE2	1:576:A:TYR:HE1	18	0.17
(1,1759)	1:609:A:ALA:HB3	1:609:A:ALA:H	17	0.17
(1,1719)	1:521:A:VAL:H	1:597:A:LYS:HE2	12	0.17
(1,1691)	1:525:A:CYS:H	1:589:A:LEU:HD12	14	0.17
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	13	0.17
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	21	0.17
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	16	0.17
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	18	0.17
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	7	0.17
(1,1544)	1:564:A:ALA:HB2	1:564:A:ALA:H	23	0.17
(1,1543)	1:564:A:ALA:HB1	1:546:A:LYS:H	4	0.17
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	24	0.17
(1,1457)	1:547:A:VAL:HG13	1:549:A:ASN:H	11	0.17
(1,1405)	1:537:A:VAL:HG21	1:533:A:THR:H	14	0.17
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	22	0.17
(1,1313)	1:518:A:ALA:H	1:519:A:GLY:H	23	0.17
(1,1296)	1:611:A:ILE:H	1:613:A:GLN:HG2	12	0.17
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	1	0.17
(1,1117)	1:573:A:VAL:HG13	1:577:A:GLN:HE21	4	0.17
(1,1117)	1:573:A:VAL:HG13	1:577:A:GLN:HE21	9	0.17
(1,1108)	1:563:A:MET:HB3	1:571:A:ALA:H	9	0.17
(1,1108)	1:563:A:MET:HB3	1:571:A:ALA:H	19	0.17
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	19	0.17
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	23	0.17
(1,1013)	1:527:A:LEU:HD13	1:524:A:ILE:HG23	7	0.17
(1,1013)	1:527:A:LEU:HD12	1:524:A:ILE:HG22	17	0.17
(1,1009)	1:551:A:ILE:HG12	1:601:A:LEU:HD23	25	0.17
(1,1001)	1:528:A:PRO:HG3	1:583:A:ILE:HG22	10	0.17
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD11	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	8	0.17
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD12	11	0.17
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD11	13	0.17
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	17	0.17
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD12	22	0.17
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	24	0.17
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	3	0.17
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	12	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	1	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	2	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	3	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	4	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	10	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	14	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	15	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	16	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG22	17	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	18	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	23	0.17
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG21	24	0.17
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	7	0.17
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD21	16	0.17
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD22	19	0.17
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD21	21	0.17
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD21	25	0.17
(1,926)	1:615:A:ILE:HG13	1:615:A:ILE:HA	17	0.17
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG23	21	0.17
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	10	0.17
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD22	4	0.17
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD22	10	0.17
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD23	19	0.17
(1,722)	1:540:A:LEU:HD12	1:590:A:ILE:HD13	8	0.17
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD23	4	0.17
(1,699)	1:599:A:LEU:HG	1:599:A:LEU:HD21	22	0.17
(1,547)	1:610:A:ALA:H	1:609:A:ALA:H	24	0.17
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	20	0.17
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG23	1	0.17
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	8	0.17
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG23	18	0.17
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	20	0.17
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	1	0.17
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD13	5	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD11	15	0.17
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD13	22	0.17
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	23	0.17
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD13	25	0.17
(1,337)	1:547:A:VAL:HG13	1:561:A:LEU:HD12	6	0.17
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG22	6	0.17
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG21	16	0.17
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	4	0.17
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	18	0.17
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	16	0.17
(1,310)	1:524:A:ILE:HG21	1:590:A:ILE:HD12	2	0.17
(1,303)	1:524:A:ILE:HD12	1:590:A:ILE:HD11	13	0.17
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD13	25	0.17
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD12	1	0.17
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD13	17	0.17
(1,288)	1:573:A:VAL:HG23	1:592:A:MET:HE2	14	0.17
(1,284)	1:581:A:ALA:HB3	1:540:A:LEU:HD13	4	0.17
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD13	7	0.17
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	7	0.17
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	8	0.17
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	12	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	2	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	3	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	6	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	8	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	9	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	12	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG22	13	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	22	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	24	0.17
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	25	0.17
(1,173)	1:514:A:GLN:HG2	1:600:A:GLN:HE21	20	0.17
(1,149)	1:584:A:ASN:HB3	1:528:A:PRO:HG3	17	0.17
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	1	0.17
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	18	0.17
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	3	0.16
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG21	19	0.16
(3,981)	1:554:A:LYS:HB2	1:557:A:ASN:HD21	6	0.16
(3,970)	1:548:A:THR:H	1:546:A:LYS:HE3	25	0.16
(3,939)	1:527:A:LEU:HD23	1:533:A:THR:H	25	0.16
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	12	0.16
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG22	1	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG21	20	0.16
(3,805)	1:573:A:VAL:HG21	1:592:A:MET:HE1	12	0.16
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD11	13	0.16
(3,774)	1:559:A:ALA:HB1	1:537:A:VAL:HG13	12	0.16
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG23	2	0.16
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD12	3	0.16
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG23	8	0.16
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD13	10	0.16
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG22	15	0.16
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD11	17	0.16
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD11	18	0.16
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD11	19	0.16
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD12	20	0.16
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD13	21	0.16
(3,751)	1:599:A:LEU:HD12	1:521:A:VAL:HG12	6	0.16
(3,743)	1:538:A:ILE:HD12	1:552:A:LEU:HD13	9	0.16
(3,742)	1:590:A:ILE:HD12	1:540:A:LEU:HD23	14	0.16
(3,741)	1:599:A:LEU:HD13	1:521:A:VAL:HG23	8	0.16
(3,741)	1:599:A:LEU:HD13	1:521:A:VAL:HG21	19	0.16
(3,741)	1:599:A:LEU:HD11	1:551:A:ILE:HD11	20	0.16
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD12	22	0.16
(3,708)	1:613:A:GLN:HB3	1:615:A:ILE:HA	11	0.16
(3,680)	1:534:A:GLU:HB3	1:535:A:ASN:HA	23	0.16
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	13	0.16
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	19	0.16
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	25	0.16
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	14	0.16
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	22	0.16
(3,601)	1:524:A:ILE:HA	1:588:A:LEU:HD11	12	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	1	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	2	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	3	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	4	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	7	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	9	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG21	12	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	13	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	15	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	16	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	19	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	20	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG21	22	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	23	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	24	0.16
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG21	25	0.16
(3,557)	1:563:A:MET:HB2	1:569:A:ALA:HA	20	0.16
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	16	0.16
(3,395)	1:516:A:LYS:HD2	1:616:A:HIS:HD2	24	0.16
(3,161)	1:563:A:MET:HE3	1:561:A:LEU:HD22	10	0.16
(3,161)	1:563:A:MET:HE3	1:561:A:LEU:HD23	13	0.16
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD21	15	0.16
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD11	22	0.16
(3,13)	1:572:A:MET:HE1	1:570:A:GLN:H	21	0.16
(3,9)	1:563:A:MET:HE3	1:576:A:TYR:HE1	4	0.16
(3,7)	1:563:A:MET:HE3	1:542:A:LEU:H	10	0.16
(1,1759)	1:609:A:ALA:HB2	1:609:A:ALA:H	9	0.16
(1,1759)	1:609:A:ALA:HB3	1:609:A:ALA:H	11	0.16
(1,1677)	1:586:A:GLU:HB2	1:586:A:GLU:H	11	0.16
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	10	0.16
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	1	0.16
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	7	0.16
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	15	0.16
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	22	0.16
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	25	0.16
(1,1545)	1:564:A:ALA:HB3	1:565:A:TYR:H	10	0.16
(1,1545)	1:564:A:ALA:HB3	1:565:A:TYR:H	13	0.16
(1,1545)	1:564:A:ALA:HB3	1:565:A:TYR:H	15	0.16
(1,1544)	1:564:A:ALA:HB1	1:564:A:ALA:H	6	0.16
(1,1544)	1:564:A:ALA:HB1	1:564:A:ALA:H	9	0.16
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	15	0.16
(1,1544)	1:564:A:ALA:HB1	1:564:A:ALA:H	22	0.16
(1,1544)	1:564:A:ALA:HB2	1:564:A:ALA:H	25	0.16
(1,1503)	1:558:A:GLN:HE22	1:558:A:GLN:HB2	22	0.16
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	14	0.16
(1,1462)	1:549:A:ASN:HD22	1:548:A:THR:HB	20	0.16
(1,1457)	1:547:A:VAL:HG12	1:549:A:ASN:H	4	0.16
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	7	0.16
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	3	0.16
(1,1306)	1:516:A:LYS:HB2	1:519:A:GLY:H	20	0.16
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	10	0.16
(1,1119)	1:514:A:GLN:H	1:549:A:ASN:HD22	10	0.16
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	20	0.16
(1,1027)	1:540:A:LEU:HD23	1:581:A:ALA:HB3	7	0.16
(1,1027)	1:540:A:LEU:HD21	1:581:A:ALA:HB3	13	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG21	2	0.16
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG23	13	0.16
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG21	23	0.16
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD13	5	0.16
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD12	16	0.16
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD11	19	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	2	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	9	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	10	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	13	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD12	15	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	17	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	19	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	20	0.16
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	24	0.16
(1,993)	1:582:A:ILE:HB	1:582:A:ILE:HG23	12	0.16
(1,992)	1:540:A:LEU:HG	1:540:A:LEU:HD23	8	0.16
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	10	0.16
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	14	0.16
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG13	4	0.16
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	2	0.16
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG22	3	0.16
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG22	8	0.16
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	15	0.16
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	18	0.16
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	20	0.16
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	25	0.16
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD23	20	0.16
(1,687)	1:547:A:VAL:HG22	1:563:A:MET:HA	7	0.16
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	1	0.16
(1,498)	1:515:A:ARG:HB2	1:516:A:LYS:H	3	0.16
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	11	0.16
(1,479)	1:550:A:TYR:HB3	1:551:A:ILE:H	20	0.16
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	10	0.16
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	16	0.16
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG21	16	0.16
(1,396)	1:573:A:VAL:HB	1:573:A:VAL:HG23	21	0.16
(1,378)	1:549:A:ASN:HB3	1:599:A:LEU:HD13	15	0.16
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	2	0.16
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	4	0.16
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	8	0.16
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD13	11	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD11	11	0.16
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD13	17	0.16
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG21	15	0.16
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	5	0.16
(1,306)	1:588:A:LEU:HB2	1:581:A:ALA:HB1	12	0.16
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD13	24	0.16
(1,298)	1:582:A:ILE:HD12	1:587:A:LYS:HG2	11	0.16
(1,298)	1:582:A:ILE:HD13	1:587:A:LYS:HG2	12	0.16
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD12	6	0.16
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD11	11	0.16
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD11	15	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	1	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	9	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	10	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	11	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	13	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	15	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	16	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	18	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB1	19	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	20	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	21	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	22	0.16
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	23	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	1	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	4	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG22	5	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG23	15	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	16	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	17	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG22	20	0.16
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	23	0.16
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB2	16	0.16
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	4	0.16
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE1	8	0.16
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE2	11	0.15
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	7	0.15
(3,964)	1:545:A:GLY:H	1:567:A:GLU:HB2	10	0.15
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	25	0.15
(3,852)	1:540:A:LEU:HD11	1:583:A:ILE:HD11	16	0.15
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG23	1	0.15
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	10	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,792)	1:547:A:VAL:HG21	1:542:A:LEU:HD23	8	0.15
(3,792)	1:547:A:VAL:HG21	1:542:A:LEU:HD22	22	0.15
(3,790)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	1	0.15
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD23	3	0.15
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD21	9	0.15
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD23	19	0.15
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	6	0.15
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD11	20	0.15
(3,774)	1:559:A:ALA:HB1	1:537:A:VAL:HG11	18	0.15
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD12	6	0.15
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD12	9	0.15
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG23	22	0.15
(3,761)	1:588:A:LEU:HG	1:588:A:LEU:HD13	24	0.15
(3,752)	1:538:A:ILE:HD12	1:552:A:LEU:HD13	18	0.15
(3,742)	1:590:A:ILE:HD12	1:540:A:LEU:HD23	6	0.15
(3,741)	1:599:A:LEU:HD11	1:521:A:VAL:HG21	15	0.15
(3,709)	1:592:A:MET:HE2	1:570:A:GLN:HA	18	0.15
(3,699)	1:564:A:ALA:HB3	1:546:A:LYS:HE2	20	0.15
(3,693)	1:606:A:LYS:HB3	1:606:A:LYS:HE3	8	0.15
(3,693)	1:546:A:LYS:HB2	1:546:A:LYS:HE2	22	0.15
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	2	0.15
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	8	0.15
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	9	0.15
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	14	0.15
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	17	0.15
(3,653)	1:540:A:LEU:HB3	1:543:A:PRO:HD3	17	0.15
(3,597)	1:587:A:LYS:HA	1:582:A:ILE:HG12	12	0.15
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	5	0.15
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	6	0.15
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	8	0.15
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	10	0.15
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	14	0.15
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG21	17	0.15
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG22	21	0.15
(3,263)	1:568:A:ALA:HB3	1:564:A:ALA:H	19	0.15
(3,161)	1:563:A:MET:HE2	1:561:A:LEU:HD23	4	0.15
(3,161)	1:563:A:MET:HE1	1:561:A:LEU:HD23	17	0.15
(3,143)	1:514:A:GLN:HG2	1:562:A:GLU:HB3	17	0.15
(3,142)	1:603:A:LYS:HD3	1:603:A:LYS:HG2	20	0.15
(3,142)	1:606:A:LYS:HG2	1:606:A:LYS:HD3	23	0.15
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	11	0.15
(3,83)	1:554:A:LYS:HE3	1:553:A:MET:HB2	17	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD12	2	0.15
(3,51)	1:516:A:LYS:HB3	1:519:A:GLY:HA3	11	0.15
(3,15)	1:514:A:GLN:HB3	1:565:A:TYR:HD2	4	0.15
(3,9)	1:563:A:MET:HE2	1:576:A:TYR:HE1	14	0.15
(1,1769)	1:612:A:ILE:HB	1:612:A:ILE:H	1	0.15
(1,1708)	1:592:A:MET:HE3	1:570:A:GLN:H	12	0.15
(1,1704)	1:591:A:ARG:HG2	1:591:A:ARG:H	10	0.15
(1,1686)	1:588:A:LEU:HD21	1:583:A:ILE:H	13	0.15
(1,1686)	1:588:A:LEU:HD23	1:583:A:ILE:H	21	0.15
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	1	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	3	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	4	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	5	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	6	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	8	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	9	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	11	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	12	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	14	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	16	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	17	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	18	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	19	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	21	0.15
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	24	0.15
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	2	0.15
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	9	0.15
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	10	0.15
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	12	0.15
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	20	0.15
(1,1592)	1:563:A:MET:H	1:572:A:MET:HE2	4	0.15
(1,1545)	1:564:A:ALA:HB3	1:565:A:TYR:H	6	0.15
(1,1545)	1:564:A:ALA:HB2	1:565:A:TYR:H	14	0.15
(1,1544)	1:564:A:ALA:HB2	1:564:A:ALA:H	1	0.15
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	8	0.15
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	10	0.15
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	11	0.15
(1,1544)	1:564:A:ALA:HB2	1:564:A:ALA:H	12	0.15
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	20	0.15
(1,1544)	1:564:A:ALA:HB1	1:564:A:ALA:H	21	0.15
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	11	0.15
(1,1457)	1:547:A:VAL:HG11	1:549:A:ASN:H	16	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1457)	1:547:A:VAL:HG11	1:549:A:ASN:H	25	0.15
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	13	0.15
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	3	0.15
(1,1221)	1:569:A:ALA:H	1:522:A:VAL:HG23	23	0.15
(1,1118)	1:574:A:GLN:HG3	1:574:A:GLN:HE22	1	0.15
(1,1118)	1:574:A:GLN:HG3	1:574:A:GLN:HE22	4	0.15
(1,1118)	1:574:A:GLN:HG2	1:574:A:GLN:HE22	19	0.15
(1,1117)	1:573:A:VAL:HG13	1:577:A:GLN:HE21	25	0.15
(1,1116)	1:614:A:ASP:H	1:615:A:ILE:H	19	0.15
(1,1108)	1:563:A:MET:HB3	1:571:A:ALA:H	3	0.15
(1,1027)	1:540:A:LEU:HD23	1:581:A:ALA:HB3	15	0.15
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG21	4	0.15
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG21	8	0.15
(1,1009)	1:551:A:ILE:HG12	1:601:A:LEU:HD21	2	0.15
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	4	0.15
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	6	0.15
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	8	0.15
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	22	0.15
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD13	25	0.15
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	1	0.15
(1,921)	1:528:A:PRO:HB3	1:531:A:SER:HB2	1	0.15
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG23	6	0.15
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	7	0.15
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG21	14	0.15
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG22	17	0.15
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG22	19	0.15
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG22	21	0.15
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG21	23	0.15
(1,658)	1:551:A:ILE:HD13	1:596:A:TYR:HE1	5	0.15
(1,658)	1:551:A:ILE:HD11	1:596:A:TYR:HE1	20	0.15
(1,547)	1:610:A:ALA:H	1:609:A:ALA:H	7	0.15
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	3	0.15
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	13	0.15
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	14	0.15
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	15	0.15
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD13	7	0.15
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD11	13	0.15
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	16	0.15
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD11	17	0.15
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD11	18	0.15
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD11	19	0.15
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD13	21	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,337)	1:547:A:VAL:HG13	1:561:A:LEU:HD12	2	0.15
(1,337)	1:547:A:VAL:HG13	1:561:A:LEU:HD11	8	0.15
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	16	0.15
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG22	19	0.15
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG21	17	0.15
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG23	19	0.15
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	3	0.15
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG13	9	0.15
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	17	0.15
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	18	0.15
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	22	0.15
(1,310)	1:524:A:ILE:HG22	1:590:A:ILE:HD12	12	0.15
(1,310)	1:524:A:ILE:HG23	1:590:A:ILE:HD11	17	0.15
(1,298)	1:582:A:ILE:HD12	1:587:A:LYS:HG2	23	0.15
(1,296)	1:538:A:ILE:HD13	1:547:A:VAL:HG11	4	0.15
(1,294)	1:538:A:ILE:HD13	1:534:A:GLU:HB3	1	0.15
(1,294)	1:538:A:ILE:HD13	1:534:A:GLU:HB3	6	0.15
(1,294)	1:538:A:ILE:HD11	1:534:A:GLU:HB3	17	0.15
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD12	12	0.15
(1,284)	1:581:A:ALA:HB2	1:540:A:LEU:HD13	14	0.15
(1,284)	1:581:A:ALA:HB2	1:540:A:LEU:HD13	21	0.15
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB1	2	0.15
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB1	3	0.15
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB1	5	0.15
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	6	0.15
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB1	17	0.15
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB2	24	0.15
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB1	25	0.15
(1,278)	1:571:A:ALA:HB1	1:567:A:GLU:HB2	16	0.15
(1,274)	1:563:A:MET:HE2	1:522:A:VAL:HG21	22	0.15
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG22	14	0.15
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG22	18	0.15
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	19	0.15
(1,61)	1:592:A:MET:HE1	1:570:A:GLN:HA	5	0.15
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB3	15	0.15
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB3	16	0.15
(1,16)	1:579:A:LYS:HB3	1:575:A:TYR:HE1	25	0.15
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE2	2	0.15
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE3	12	0.15
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE2	24	0.14
(3,1008)	1:522:A:VAL:HG11	1:572:A:MET:H	4	0.14
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG21	22	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG21	4	0.14
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG22	9	0.14
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG21	11	0.14
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG23	12	0.14
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG22	14	0.14
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG21	17	0.14
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG21	19	0.14
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG21	20	0.14
(3,792)	1:547:A:VAL:HG23	1:542:A:LEU:HD23	6	0.14
(3,792)	1:547:A:VAL:HG22	1:542:A:LEU:HD21	23	0.14
(3,779)	1:563:A:MET:HE1	1:561:A:LEU:HD23	22	0.14
(3,779)	1:563:A:MET:HE1	1:561:A:LEU:HD21	24	0.14
(3,779)	1:563:A:MET:HE1	1:561:A:LEU:HD23	25	0.14
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	2	0.14
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	9	0.14
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD11	11	0.14
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	16	0.14
(3,775)	1:615:A:ILE:HD13	1:615:A:ILE:HG13	9	0.14
(3,775)	1:583:A:ILE:HD13	1:583:A:ILE:HG13	14	0.14
(3,775)	1:615:A:ILE:HD13	1:615:A:ILE:HG13	18	0.14
(3,775)	1:615:A:ILE:HD12	1:615:A:ILE:HG13	20	0.14
(3,774)	1:559:A:ALA:HB3	1:537:A:VAL:HG11	11	0.14
(3,764)	1:599:A:LEU:HG	1:521:A:VAL:HG22	13	0.14
(3,761)	1:524:A:ILE:HB	1:524:A:ILE:HG22	13	0.14
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG11	12	0.14
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG11	24	0.14
(3,748)	1:562:A:GLU:HG2	1:521:A:VAL:HG22	1	0.14
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG22	13	0.14
(3,693)	1:606:A:LYS:HB3	1:606:A:LYS:HE3	4	0.14
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD12	11	0.14
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD13	12	0.14
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD12	18	0.14
(3,643)	1:583:A:ILE:HA	1:583:A:ILE:HG12	14	0.14
(3,637)	1:552:A:LEU:HA	1:554:A:LYS:HG2	4	0.14
(3,637)	1:552:A:LEU:HA	1:554:A:LYS:HG2	13	0.14
(3,637)	1:552:A:LEU:HA	1:554:A:LYS:HG2	17	0.14
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	20	0.14
(3,601)	1:532:A:CYS:HA	1:527:A:LEU:HD23	15	0.14
(3,597)	1:587:A:LYS:HA	1:582:A:ILE:HG12	14	0.14
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	11	0.14
(3,595)	1:556:A:THR:HB	1:556:A:THR:HG23	18	0.14
(3,594)	1:528:A:PRO:HD2	1:588:A:LEU:HD22	7	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,447)	1:614:A:ASP:H	1:612:A:ILE:HG23	1	0.14
(3,447)	1:613:A:GLN:H	1:612:A:ILE:HG22	9	0.14
(3,413)	1:613:A:GLN:HB2	1:565:A:TYR:HE1	4	0.14
(3,413)	1:534:A:GLU:HG2	1:535:A:ASN:HD22	16	0.14
(3,408)	1:543:A:PRO:HG2	1:544:A:PHE:HD1	16	0.14
(3,388)	1:538:A:ILE:HG22	1:550:A:TYR:HE2	2	0.14
(3,285)	1:615:A:ILE:HB	1:615:A:ILE:H	12	0.14
(3,238)	1:520:A:ARG:HB2	1:563:A:MET:H	7	0.14
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD13	19	0.14
(3,142)	1:603:A:LYS:HD3	1:603:A:LYS:HG2	18	0.14
(3,142)	1:606:A:LYS:HG3	1:606:A:LYS:HD2	19	0.14
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	12	0.14
(3,134)	1:618:A:GLN:HB3	1:620:A:GLU:HA	13	0.14
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD11	24	0.14
(3,30)	1:612:A:ILE:HD11	1:610:A:ALA:H	1	0.14
(3,9)	1:563:A:MET:HE3	1:576:A:TYR:HE1	15	0.14
(1,1786)	1:619:A:ARG:HA	1:620:A:GLU:H	16	0.14
(1,1778)	1:616:A:HIS:H	1:615:A:ILE:HB	17	0.14
(1,1776)	1:614:A:ASP:HB2	1:614:A:ASP:H	13	0.14
(1,1769)	1:612:A:ILE:HB	1:612:A:ILE:H	6	0.14
(1,1686)	1:588:A:LEU:HD23	1:583:A:ILE:H	20	0.14
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	6	0.14
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	16	0.14
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	6	0.14
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	14	0.14
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	21	0.14
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	24	0.14
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	2	0.14
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	10	0.14
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	13	0.14
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	20	0.14
(1,1624)	1:576:A:TYR:HB3	1:576:A:TYR:H	23	0.14
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	1	0.14
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	6	0.14
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	13	0.14
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	15	0.14
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	17	0.14
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	18	0.14
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	24	0.14
(1,1544)	1:564:A:ALA:HB1	1:564:A:ALA:H	13	0.14
(1,1544)	1:564:A:ALA:HB1	1:564:A:ALA:H	16	0.14
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	19	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1544)	1:564:A:ALA:HB1	1:564:A:ALA:H	24	0.14
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	17	0.14
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	19	0.14
(1,1457)	1:547:A:VAL:HG12	1:549:A:ASN:H	21	0.14
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	11	0.14
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	8	0.14
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	17	0.14
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	22	0.14
(1,1221)	1:569:A:ALA:H	1:522:A:VAL:HG22	3	0.14
(1,1118)	1:574:A:GLN:HG2	1:574:A:GLN:HE22	20	0.14
(1,1108)	1:563:A:MET:HB3	1:571:A:ALA:H	15	0.14
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD11	12	0.14
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	7	0.14
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	17	0.14
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG23	11	0.14
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG21	14	0.14
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG22	19	0.14
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG23	22	0.14
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG21	24	0.14
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	5	0.14
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	10	0.14
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	11	0.14
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	14	0.14
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	20	0.14
(1,999)	1:524:A:ILE:HB	1:524:A:ILE:HD11	18	0.14
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD12	18	0.14
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB3	1	0.14
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	12	0.14
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	22	0.14
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	13	0.14
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG21	14	0.14
(1,861)	1:562:A:GLU:HA	1:521:A:VAL:HG22	10	0.14
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	4	0.14
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	5	0.14
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG22	11	0.14
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG21	12	0.14
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG21	13	0.14
(1,724)	1:547:A:VAL:H	1:538:A:ILE:HG22	5	0.14
(1,724)	1:547:A:VAL:H	1:538:A:ILE:HG23	6	0.14
(1,659)	1:523:A:HIS:HA	1:523:A:HIS:HD2	2	0.14
(1,658)	1:551:A:ILE:HD12	1:596:A:TYR:HE1	18	0.14
(1,621)	1:599:A:LEU:HD21	1:596:A:TYR:HE2	8	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	24	0.14
(1,495)	1:586:A:GLU:HG2	1:586:A:GLU:H	12	0.14
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	1	0.14
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	5	0.14
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	6	0.14
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	8	0.14
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	21	0.14
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	3	0.14
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD13	10	0.14
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	20	0.14
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	5	0.14
(1,337)	1:547:A:VAL:HG11	1:561:A:LEU:HD12	18	0.14
(1,337)	1:547:A:VAL:HG13	1:561:A:LEU:HD13	21	0.14
(1,325)	1:534:A:GLU:HA	1:537:A:VAL:HG23	7	0.14
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	24	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	1	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	8	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG13	15	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	19	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG13	20	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	21	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	23	0.14
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	25	0.14
(1,306)	1:588:A:LEU:HB2	1:581:A:ALA:HB3	22	0.14
(1,294)	1:538:A:ILE:HD13	1:534:A:GLU:HB3	10	0.14
(1,294)	1:538:A:ILE:HD12	1:534:A:GLU:HB3	15	0.14
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD13	6	0.14
(1,293)	1:534:A:GLU:HG3	1:538:A:ILE:HD12	10	0.14
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	7	0.14
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG21	9	0.14
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	17	0.14
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD13	13	0.14
(1,284)	1:581:A:ALA:HB2	1:540:A:LEU:HD12	17	0.14
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD11	18	0.14
(1,284)	1:581:A:ALA:HB3	1:540:A:LEU:HD12	19	0.14
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD12	24	0.14
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB3	4	0.14
(1,280)	1:564:A:ALA:HA	1:564:A:ALA:HB1	14	0.14
(1,274)	1:563:A:MET:HE3	1:522:A:VAL:HG23	4	0.14
(1,267)	1:583:A:ILE:HG23	1:528:A:PRO:HD3	2	0.14
(1,190)	1:589:A:LEU:HD22	1:577:A:GLN:HE21	7	0.14
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB2	2	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB1	13	0.14
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB3	17	0.14
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB3	24	0.14
(1,6)	1:572:A:MET:HG2	1:563:A:MET:HE1	11	0.14
(3,1040)	1:606:A:LYS:H	1:603:A:LYS:HE3	24	0.13
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD12	1	0.13
(3,1008)	1:522:A:VAL:HG12	1:572:A:MET:H	18	0.13
(3,1008)	1:522:A:VAL:HG12	1:572:A:MET:H	19	0.13
(3,998)	1:572:A:MET:HE1	1:564:A:ALA:H	10	0.13
(3,998)	1:572:A:MET:HE2	1:564:A:ALA:H	12	0.13
(3,970)	1:548:A:THR:H	1:546:A:LYS:HE2	15	0.13
(3,966)	1:542:A:LEU:HB3	1:546:A:LYS:H	19	0.13
(3,966)	1:542:A:LEU:HB3	1:546:A:LYS:H	22	0.13
(3,939)	1:527:A:LEU:HD22	1:533:A:THR:H	12	0.13
(3,927)	1:574:A:GLN:HE22	1:573:A:VAL:HB	1	0.13
(3,918)	1:565:A:TYR:H	1:570:A:GLN:HB2	20	0.13
(3,855)	1:602:A:LYS:HD2	1:603:A:LYS:HG3	16	0.13
(3,824)	1:559:A:ALA:HB1	1:537:A:VAL:HG12	6	0.13
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG23	2	0.13
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG22	5	0.13
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG21	6	0.13
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG23	7	0.13
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG22	10	0.13
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG21	23	0.13
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG22	24	0.13
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG22	25	0.13
(3,792)	1:564:A:ALA:HB1	1:548:A:THR:HG23	3	0.13
(3,779)	1:563:A:MET:HE3	1:561:A:LEU:HD22	10	0.13
(3,779)	1:563:A:MET:HE3	1:561:A:LEU:HD23	13	0.13
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	8	0.13
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	10	0.13
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD12	12	0.13
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD11	19	0.13
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	23	0.13
(3,775)	1:615:A:ILE:HD11	1:615:A:ILE:HG13	2	0.13
(3,775)	1:615:A:ILE:HD11	1:615:A:ILE:HG13	10	0.13
(3,775)	1:583:A:ILE:HD11	1:583:A:ILE:HG13	11	0.13
(3,775)	1:583:A:ILE:HD11	1:583:A:ILE:HG13	12	0.13
(3,775)	1:583:A:ILE:HD12	1:583:A:ILE:HG13	15	0.13
(3,775)	1:615:A:ILE:HD13	1:615:A:ILE:HG13	19	0.13
(3,774)	1:559:A:ALA:HB2	1:537:A:VAL:HG11	17	0.13
(3,774)	1:559:A:ALA:HB3	1:537:A:VAL:HG12	24	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	1	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	2	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	6	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	7	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	8	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	9	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	10	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	11	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	12	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	13	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	15	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	17	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	21	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	23	0.13
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	25	0.13
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD13	5	0.13
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD12	9	0.13
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD12	16	0.13
(3,771)	1:581:A:ALA:HB1	1:583:A:ILE:HD11	14	0.13
(3,752)	1:538:A:ILE:HD11	1:552:A:LEU:HD13	3	0.13
(3,739)	1:540:A:LEU:HG	1:590:A:ILE:HD13	13	0.13
(3,680)	1:534:A:GLU:HB3	1:535:A:ASN:HA	1	0.13
(3,680)	1:534:A:GLU:HB3	1:535:A:ASN:HA	4	0.13
(3,658)	1:537:A:VAL:HA	1:540:A:LEU:HD11	3	0.13
(3,637)	1:587:A:LYS:HA	1:588:A:LEU:HB2	21	0.13
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	3	0.13
(3,408)	1:571:A:ALA:HB1	1:544:A:PHE:HD2	6	0.13
(3,285)	1:615:A:ILE:HB	1:615:A:ILE:H	3	0.13
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	2	0.13
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	3	0.13
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD13	4	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	6	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	7	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD11	9	0.13
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD13	12	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD13	13	0.13
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	15	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD11	20	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	22	0.13
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	25	0.13
(3,142)	1:606:A:LYS:HG2	1:606:A:LYS:HD3	6	0.13
(3,142)	1:516:A:LYS:HG3	1:516:A:LYS:HD2	11	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,142)	1:603:A:LYS:HD3	1:603:A:LYS:HG2	22	0.13
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	7	0.13
(3,134)	1:618:A:GLN:HB3	1:620:A:GLU:HA	25	0.13
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD13	9	0.13
(3,30)	1:612:A:ILE:HD12	1:610:A:ALA:H	12	0.13
(3,13)	1:572:A:MET:HE3	1:570:A:GLN:H	8	0.13
(3,13)	1:572:A:MET:HE3	1:570:A:GLN:H	15	0.13
(3,13)	1:572:A:MET:HE1	1:570:A:GLN:H	18	0.13
(3,9)	1:563:A:MET:HE3	1:576:A:TYR:HE1	3	0.13
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG23	5	0.13
(1,1773)	1:613:A:GLN:H	1:612:A:ILE:HG21	16	0.13
(1,1759)	1:609:A:ALA:HB2	1:609:A:ALA:H	1	0.13
(1,1759)	1:609:A:ALA:HB3	1:609:A:ALA:H	4	0.13
(1,1759)	1:609:A:ALA:HB2	1:609:A:ALA:H	5	0.13
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	18	0.13
(1,1723)	1:599:A:LEU:HA	1:600:A:GLN:H	4	0.13
(1,1723)	1:599:A:LEU:HA	1:600:A:GLN:H	6	0.13
(1,1708)	1:592:A:MET:HE1	1:570:A:GLN:H	20	0.13
(1,1685)	1:588:A:LEU:HD12	1:581:A:ALA:H	23	0.13
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	22	0.13
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	4	0.13
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	17	0.13
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	3	0.13
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	4	0.13
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	5	0.13
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	16	0.13
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	19	0.13
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	21	0.13
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	22	0.13
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	2	0.13
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	3	0.13
(1,1544)	1:564:A:ALA:HB3	1:564:A:ALA:H	17	0.13
(1,1514)	1:551:A:ILE:H	1:560:A:PHE:HB3	21	0.13
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	8	0.13
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	14	0.13
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	23	0.13
(1,1405)	1:537:A:VAL:HG21	1:533:A:THR:H	18	0.13
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	8	0.13
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	9	0.13
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	20	0.13
(1,1309)	1:517:A:GLY:HA2	1:518:A:ALA:H	18	0.13
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	4	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	25	0.13
(1,1261)	1:584:A:ASN:HD22	1:586:A:GLU:HB2	2	0.13
(1,1221)	1:569:A:ALA:H	1:522:A:VAL:HG22	14	0.13
(1,1191)	1:529:A:GLU:HG2	1:557:A:ASN:H	21	0.13
(1,1108)	1:563:A:MET:HB3	1:571:A:ALA:H	17	0.13
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	11	0.13
(1,1072)	1:557:A:ASN:HD21	1:557:A:ASN:HB2	12	0.13
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD13	2	0.13
(1,1071)	1:550:A:TYR:HA	1:599:A:LEU:HD12	4	0.13
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	1	0.13
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	11	0.13
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	22	0.13
(1,1029)	1:520:A:ARG:HB2	1:569:A:ALA:HB3	16	0.13
(1,1027)	1:540:A:LEU:HD23	1:581:A:ALA:HB1	14	0.13
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG23	12	0.13
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG22	15	0.13
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG23	17	0.13
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG23	20	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG22	1	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	2	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	4	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	6	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG22	15	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	16	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	17	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	18	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	22	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG22	23	0.13
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	24	0.13
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG23	4	0.13
(1,975)	1:565:A:TYR:HB3	1:568:A:ALA:HB2	21	0.13
(1,912)	1:515:A:ARG:HB2	1:616:A:HIS:HB2	14	0.13
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG13	7	0.13
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG11	12	0.13
(1,878)	1:560:A:PHE:HB2	1:521:A:VAL:HG13	8	0.13
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG22	6	0.13
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	9	0.13
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG22	16	0.13
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG21	24	0.13
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD22	1	0.13
(1,702)	1:596:A:TYR:HB2	1:599:A:LEU:HD22	1	0.13
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	15	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	4	0.13
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	7	0.13
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	11	0.13
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	12	0.13
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	18	0.13
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	22	0.13
(1,395)	1:573:A:VAL:HB	1:573:A:VAL:HG12	3	0.13
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	6	0.13
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD12	9	0.13
(1,344)	1:588:A:LEU:HG	1:588:A:LEU:HD13	24	0.13
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	11	0.13
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG13	12	0.13
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	13	0.13
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	24	0.13
(1,306)	1:588:A:LEU:HB2	1:581:A:ALA:HB3	2	0.13
(1,306)	1:588:A:LEU:HB2	1:581:A:ALA:HB1	18	0.13
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	1	0.13
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	11	0.13
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	21	0.13
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	25	0.13
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD13	3	0.13
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD13	9	0.13
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	13	0.13
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG21	19	0.13
(1,271)	1:583:A:ILE:HB	1:583:A:ILE:HG21	7	0.13
(1,270)	1:553:A:MET:HE3	1:551:A:ILE:HG21	22	0.13
(1,249)	1:620:A:GLU:HB3	1:612:A:ILE:HG12	21	0.13
(1,61)	1:592:A:MET:HE2	1:570:A:GLN:HA	4	0.13
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB2	6	0.13
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB3	25	0.13
(3,1037)	1:596:A:TYR:H	1:551:A:ILE:HG23	8	0.12
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD12	9	0.12
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD11	16	0.12
(3,1027)	1:588:A:LEU:H	1:589:A:LEU:HD11	21	0.12
(3,985)	1:558:A:GLN:H	1:537:A:VAL:HG22	21	0.12
(3,963)	1:545:A:GLY:H	1:571:A:ALA:HB2	11	0.12
(3,929)	1:514:A:GLN:H	1:516:A:LYS:HE2	18	0.12
(3,909)	1:554:A:LYS:H	1:534:A:GLU:HG3	21	0.12
(3,893)	1:527:A:LEU:H	1:583:A:ILE:HD13	12	0.12
(3,824)	1:559:A:ALA:HB1	1:537:A:VAL:HG11	5	0.12
(3,824)	1:559:A:ALA:HB1	1:537:A:VAL:HG11	13	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	1	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	2	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	3	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	4	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	5	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	6	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	7	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	8	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	9	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	10	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	11	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	12	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	13	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	14	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	15	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	16	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	17	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	18	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	19	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	20	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	21	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	22	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	23	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	24	0.12
(3,821)	1:582:A:ILE:HG13	1:582:A:ILE:HG12	25	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	1	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	2	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	3	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	4	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	5	0.12
(3,819)	1:611:A:ILE:HG12	1:611:A:ILE:HG13	6	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	7	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	8	0.12
(3,819)	1:611:A:ILE:HG12	1:611:A:ILE:HG13	9	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	10	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	11	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	12	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	13	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	14	0.12
(3,819)	1:611:A:ILE:HG12	1:611:A:ILE:HG13	15	0.12
(3,819)	1:611:A:ILE:HG12	1:611:A:ILE:HG13	16	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	17	0.12
(3,819)	1:611:A:ILE:HG12	1:611:A:ILE:HG13	18	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,819)	1:611:A:ILE:HG12	1:611:A:ILE:HG13	19	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	20	0.12
(3,819)	1:611:A:ILE:HG12	1:611:A:ILE:HG13	21	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	22	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	23	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	24	0.12
(3,819)	1:612:A:ILE:HG12	1:612:A:ILE:HG13	25	0.12
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD23	3	0.12
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG23	3	0.12
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG21	16	0.12
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG22	18	0.12
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG22	21	0.12
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG21	22	0.12
(3,795)	1:537:A:VAL:HG23	1:527:A:LEU:HD23	12	0.12
(3,792)	1:547:A:VAL:HG22	1:542:A:LEU:HD23	9	0.12
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD21	15	0.12
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD12	7	0.12
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	15	0.12
(3,775)	1:583:A:ILE:HD11	1:583:A:ILE:HG13	3	0.12
(3,775)	1:583:A:ILE:HD12	1:583:A:ILE:HG13	8	0.12
(3,775)	1:583:A:ILE:HD11	1:583:A:ILE:HG13	13	0.12
(3,775)	1:615:A:ILE:HD12	1:615:A:ILE:HG13	17	0.12
(3,775)	1:583:A:ILE:HD13	1:583:A:ILE:HG13	23	0.12
(3,775)	1:583:A:ILE:HD11	1:583:A:ILE:HG13	25	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	3	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	4	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	5	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	14	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	16	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	18	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	19	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	20	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	22	0.12
(3,773)	1:590:A:ILE:HG13	1:590:A:ILE:HG12	24	0.12
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD13	1	0.12
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD11	3	0.12
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD11	13	0.12
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD13	15	0.12
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD12	22	0.12
(3,764)	1:599:A:LEU:HG	1:521:A:VAL:HG21	7	0.12
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD12	10	0.12
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD11	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD11	22	0.12
(3,751)	1:599:A:LEU:HD11	1:521:A:VAL:HG13	18	0.12
(3,751)	1:599:A:LEU:HD13	1:521:A:VAL:HG11	19	0.12
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG21	7	0.12
(3,693)	1:606:A:LYS:HB3	1:606:A:LYS:HE3	3	0.12
(3,645)	1:583:A:ILE:HD12	1:527:A:LEU:HA	6	0.12
(3,620)	1:549:A:ASN:HB3	1:513:A:ALA:HB1	24	0.12
(3,597)	1:587:A:LYS:HA	1:582:A:ILE:HG12	25	0.12
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	8	0.12
(3,518)	1:572:A:MET:HE2	1:544:A:PHE:HD1	10	0.12
(3,451)	1:582:A:ILE:HD12	1:585:A:GLY:H	8	0.12
(3,437)	1:520:A:ARG:HB2	1:563:A:MET:HA	1	0.12
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	23	0.12
(3,239)	1:590:A:ILE:HB	1:588:A:LEU:H	8	0.12
(3,235)	1:558:A:GLN:HG2	1:553:A:MET:H	18	0.12
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	5	0.12
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	8	0.12
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD11	10	0.12
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	14	0.12
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD12	16	0.12
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD11	23	0.12
(3,161)	1:563:A:MET:HE1	1:561:A:LEU:HD21	14	0.12
(3,142)	1:516:A:LYS:HG2	1:516:A:LYS:HD3	3	0.12
(3,142)	1:516:A:LYS:HG3	1:516:A:LYS:HD2	17	0.12
(3,142)	1:516:A:LYS:HG3	1:516:A:LYS:HD2	25	0.12
(3,120)	1:597:A:LYS:HB3	1:593:A:SER:HB3	20	0.12
(3,13)	1:572:A:MET:HE2	1:570:A:GLN:H	6	0.12
(3,13)	1:572:A:MET:HE1	1:570:A:GLN:H	7	0.12
(3,13)	1:572:A:MET:HE3	1:570:A:GLN:H	11	0.12
(3,9)	1:563:A:MET:HE3	1:576:A:TYR:HE1	6	0.12
(1,1783)	1:618:A:GLN:HB2	1:618:A:GLN:H	24	0.12
(1,1769)	1:612:A:ILE:HB	1:612:A:ILE:H	16	0.12
(1,1769)	1:612:A:ILE:HB	1:612:A:ILE:H	25	0.12
(1,1767)	1:611:A:ILE:HG23	1:611:A:ILE:H	1	0.12
(1,1767)	1:611:A:ILE:HG21	1:611:A:ILE:H	4	0.12
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	13	0.12
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	22	0.12
(1,1723)	1:599:A:LEU:HA	1:600:A:GLN:H	5	0.12
(1,1723)	1:599:A:LEU:HA	1:600:A:GLN:H	11	0.12
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	5	0.12
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	17	0.12
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	23	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1665)	1:584:A:ASN:HD22	1:584:A:ASN:HA	25	0.12
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	13	0.12
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	19	0.12
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	8	0.12
(1,1544)	1:564:A:ALA:HB2	1:564:A:ALA:H	18	0.12
(1,1521)	1:522:A:VAL:H	1:561:A:LEU:HB2	23	0.12
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	9	0.12
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	25	0.12
(1,1405)	1:537:A:VAL:HG22	1:533:A:THR:H	12	0.12
(1,1405)	1:537:A:VAL:HG22	1:533:A:THR:H	13	0.12
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	6	0.12
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	15	0.12
(1,1347)	1:525:A:CYS:HB2	1:526:A:ASN:H	2	0.12
(1,1295)	1:611:A:ILE:H	1:608:A:VAL:HB	13	0.12
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	1	0.12
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	7	0.12
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	9	0.12
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	20	0.12
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	21	0.12
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	24	0.12
(1,1073)	1:557:A:ASN:HD21	1:557:A:ASN:HB3	1	0.12
(1,1073)	1:557:A:ASN:HD21	1:557:A:ASN:HB3	5	0.12
(1,1051)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	2	0.12
(1,1051)	1:602:A:LYS:HD3	1:602:A:LYS:HE3	11	0.12
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	2	0.12
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	6	0.12
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	8	0.12
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	10	0.12
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	12	0.12
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	15	0.12
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	19	0.12
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	20	0.12
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	25	0.12
(1,1027)	1:540:A:LEU:HD21	1:581:A:ALA:HB3	9	0.12
(1,1027)	1:540:A:LEU:HD23	1:581:A:ALA:HB3	24	0.12
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG23	1	0.12
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG21	3	0.12
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG22	6	0.12
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG22	7	0.12
(1,1010)	1:521:A:VAL:HG11	1:521:A:VAL:HG21	16	0.12
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG22	21	0.12
(1,1001)	1:528:A:PRO:HG2	1:583:A:ILE:HG23	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	7	0.12
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG22	8	0.12
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG22	9	0.12
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	13	0.12
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	19	0.12
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	21	0.12
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	25	0.12
(1,971)	1:570:A:GLN:HG2	1:569:A:ALA:HB3	9	0.12
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	23	0.12
(1,945)	1:546:A:LYS:HG3	1:546:A:LYS:HE3	9	0.12
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG12	2	0.12
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG23	2	0.12
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG23	7	0.12
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	17	0.12
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	19	0.12
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG22	25	0.12
(1,878)	1:560:A:PHE:HB2	1:521:A:VAL:HG13	10	0.12
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG23	1	0.12
(1,846)	1:566:A:THR:HB	1:566:A:THR:HG21	22	0.12
(1,724)	1:547:A:VAL:H	1:538:A:ILE:HG22	19	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD13	1	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD12	2	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	4	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	5	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	7	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD13	8	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	11	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD13	16	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD13	18	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	21	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD12	23	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD12	24	0.12
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD12	25	0.12
(1,659)	1:523:A:HIS:HA	1:523:A:HIS:HD2	10	0.12
(1,659)	1:523:A:HIS:HA	1:523:A:HIS:HD2	24	0.12
(1,547)	1:610:A:ALA:H	1:609:A:ALA:H	20	0.12
(1,525)	1:519:A:GLY:HA3	1:520:A:ARG:H	21	0.12
(1,501)	1:570:A:GLN:HG2	1:570:A:GLN:H	25	0.12
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	9	0.12
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	25	0.12
(1,317)	1:547:A:VAL:HG12	1:549:A:ASN:HA	6	0.12
(1,317)	1:547:A:VAL:HG13	1:549:A:ASN:HA	11	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	4	0.12
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG21	12	0.12
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	16	0.12
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	18	0.12
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG21	20	0.12
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG21	23	0.12
(1,284)	1:581:A:ALA:HB3	1:540:A:LEU:HD12	2	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG21	2	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	4	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	5	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	8	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG21	14	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	15	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG23	18	0.12
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	25	0.12
(1,270)	1:553:A:MET:HE3	1:551:A:ILE:HG23	5	0.12
(1,270)	1:553:A:MET:HE1	1:551:A:ILE:HG21	10	0.12
(1,261)	1:550:A:TYR:HB2	1:561:A:LEU:HD22	18	0.12
(1,154)	1:614:A:ASP:HB2	1:615:A:ILE:H	20	0.12
(1,149)	1:584:A:ASN:HB3	1:528:A:PRO:HG3	13	0.12
(1,102)	1:612:A:ILE:HA	1:614:A:ASP:HB2	12	0.12
(1,9)	1:550:A:TYR:HD2	1:547:A:VAL:HG23	20	0.12
(3,1019)	1:581:A:ALA:H	1:579:A:LYS:HE2	2	0.11
(3,948)	1:537:A:VAL:HG11	1:539:A:ASN:HD22	23	0.11
(3,905)	1:551:A:ILE:H	1:547:A:VAL:HA	10	0.11
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG12	7	0.11
(3,811)	1:542:A:LEU:HG	1:547:A:VAL:HG22	9	0.11
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD21	9	0.11
(3,808)	1:563:A:MET:HE2	1:561:A:LEU:HD23	19	0.11
(3,804)	1:611:A:ILE:HB	1:611:A:ILE:HG23	13	0.11
(3,804)	1:612:A:ILE:HB	1:612:A:ILE:HG21	15	0.11
(3,802)	1:561:A:LEU:HB3	1:524:A:ILE:HD12	18	0.11
(3,792)	1:547:A:VAL:HG22	1:542:A:LEU:HD21	17	0.11
(3,779)	1:563:A:MET:HE2	1:561:A:LEU:HD23	4	0.11
(3,779)	1:563:A:MET:HE1	1:561:A:LEU:HD23	17	0.11
(3,778)	1:542:A:LEU:HG	1:538:A:ILE:HG22	1	0.11
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD13	14	0.11
(3,775)	1:583:A:ILE:HD12	1:583:A:ILE:HG13	1	0.11
(3,775)	1:583:A:ILE:HD12	1:583:A:ILE:HG13	4	0.11
(3,775)	1:583:A:ILE:HD13	1:583:A:ILE:HG13	5	0.11
(3,775)	1:583:A:ILE:HD12	1:583:A:ILE:HG13	6	0.11
(3,775)	1:583:A:ILE:HD13	1:583:A:ILE:HG13	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD13	4	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD12	6	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD13	8	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD13	10	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD12	11	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD13	17	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD11	19	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD12	20	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD11	21	0.11
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD11	23	0.11
(3,764)	1:599:A:LEU:HG	1:521:A:VAL:HG22	22	0.11
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD13	2	0.11
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD11	4	0.11
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD13	6	0.11
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD13	11	0.11
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD12	13	0.11
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD13	19	0.11
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD12	20	0.11
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD11	3	0.11
(3,756)	1:540:A:LEU:HG	1:583:A:ILE:HD12	8	0.11
(3,745)	1:537:A:VAL:HG21	1:527:A:LEU:HD13	12	0.11
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG22	22	0.11
(3,699)	1:564:A:ALA:HB2	1:546:A:LYS:HE2	18	0.11
(3,680)	1:534:A:GLU:HB3	1:535:A:ASN:HA	22	0.11
(3,654)	1:543:A:PRO:HD3	1:542:A:LEU:HB3	21	0.11
(3,653)	1:540:A:LEU:HB3	1:543:A:PRO:HD3	6	0.11
(3,653)	1:540:A:LEU:HB3	1:543:A:PRO:HD3	10	0.11
(3,653)	1:540:A:LEU:HB3	1:543:A:PRO:HD3	18	0.11
(3,581)	1:548:A:THR:HB	1:548:A:THR:HG23	5	0.11
(3,518)	1:554:A:LYS:HB2	1:556:A:THR:H	21	0.11
(3,429)	1:551:A:ILE:HB	1:596:A:TYR:HE1	13	0.11
(3,416)	1:558:A:GLN:HB3	1:558:A:GLN:HE22	9	0.11
(3,187)	1:603:A:LYS:HG3	1:601:A:LEU:HD13	21	0.11
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD13	1	0.11
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD12	11	0.11
(3,171)	1:611:A:ILE:HG13	1:611:A:ILE:HD11	18	0.11
(3,171)	1:612:A:ILE:HG13	1:612:A:ILE:HD12	21	0.11
(3,143)	1:553:A:MET:HG3	1:551:A:ILE:HG13	8	0.11
(3,142)	1:606:A:LYS:HG2	1:606:A:LYS:HD3	7	0.11
(3,142)	1:603:A:LYS:HD2	1:603:A:LYS:HG3	15	0.11
(3,135)	1:514:A:GLN:HB2	1:513:A:ALA:HA	23	0.11
(3,134)	1:529:A:GLU:HB2	1:557:A:ASN:HA	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,122)	1:603:A:LYS:HB3	1:603:A:LYS:HE3	20	0.11
(3,112)	1:561:A:LEU:HB3	1:524:A:ILE:HD13	17	0.11
(3,49)	1:560:A:PHE:HB2	1:553:A:MET:HA	24	0.11
(3,36)	1:592:A:MET:HE3	1:566:A:THR:HA	11	0.11
(3,30)	1:612:A:ILE:HD12	1:610:A:ALA:H	19	0.11
(3,19)	1:594:A:THR:HB	1:596:A:TYR:HA	6	0.11
(3,9)	1:563:A:MET:HE3	1:576:A:TYR:HE1	12	0.11
(3,7)	1:563:A:MET:HE2	1:542:A:LEU:H	4	0.11
(1,1789)	1:620:A:GLU:HA	1:621:A:ARG:H	19	0.11
(1,1769)	1:612:A:ILE:HB	1:612:A:ILE:H	14	0.11
(1,1769)	1:612:A:ILE:HB	1:612:A:ILE:H	18	0.11
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	7	0.11
(1,1759)	1:609:A:ALA:HB1	1:609:A:ALA:H	24	0.11
(1,1654)	1:582:A:ILE:HG22	1:586:A:GLU:H	13	0.11
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	12	0.11
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	23	0.11
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	7	0.11
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	11	0.11
(1,1610)	1:579:A:LYS:H	1:575:A:TYR:HA	14	0.11
(1,1542)	1:514:A:GLN:H	1:564:A:ALA:HB1	25	0.11
(1,1471)	1:549:A:ASN:HB2	1:550:A:TYR:H	18	0.11
(1,1456)	1:547:A:VAL:HG13	1:548:A:THR:H	14	0.11
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	2	0.11
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	5	0.11
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	10	0.11
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	24	0.11
(1,1405)	1:537:A:VAL:HG23	1:533:A:THR:H	21	0.11
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	2	0.11
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	4	0.11
(1,1361)	1:529:A:GLU:H	1:528:A:PRO:HB3	10	0.11
(1,1295)	1:611:A:ILE:H	1:608:A:VAL:HB	18	0.11
(1,1276)	1:590:A:ILE:H	1:583:A:ILE:H	5	0.11
(1,1221)	1:569:A:ALA:H	1:522:A:VAL:HG22	22	0.11
(1,1135)	1:533:A:THR:HG21	1:532:A:CYS:H	20	0.11
(1,1135)	1:533:A:THR:HG21	1:532:A:CYS:H	25	0.11
(1,1115)	1:614:A:ASP:HB3	1:615:A:ILE:H	1	0.11
(1,1073)	1:557:A:ASN:HD21	1:557:A:ASN:HB3	15	0.11
(1,1051)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	7	0.11
(1,1051)	1:602:A:LYS:HD3	1:602:A:LYS:HE3	12	0.11
(1,1051)	1:602:A:LYS:HD3	1:602:A:LYS:HE3	17	0.11
(1,1051)	1:602:A:LYS:HD2	1:602:A:LYS:HE2	20	0.11
(1,1051)	1:602:A:LYS:HD2	1:602:A:LYS:HE2	23	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,1051)	1:602:A:LYS:HD2	1:602:A:LYS:HE2	25	0.11
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	5	0.11
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	9	0.11
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	14	0.11
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	21	0.11
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	24	0.11
(1,1029)	1:520:A:ARG:HB2	1:569:A:ALA:HB1	12	0.11
(1,1027)	1:540:A:LEU:HD21	1:581:A:ALA:HB2	23	0.11
(1,1010)	1:521:A:VAL:HG13	1:521:A:VAL:HG23	10	0.11
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG23	18	0.11
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG21	3	0.11
(1,1000)	1:538:A:ILE:HB	1:538:A:ILE:HG23	12	0.11
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD12	1	0.11
(1,995)	1:540:A:LEU:HB2	1:540:A:LEU:HD11	7	0.11
(1,991)	1:599:A:LEU:HD12	1:521:A:VAL:HG21	6	0.11
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG22	17	0.11
(1,991)	1:599:A:LEU:HD11	1:521:A:VAL:HG22	18	0.11
(1,991)	1:599:A:LEU:HD13	1:521:A:VAL:HG23	24	0.11
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	4	0.11
(1,962)	1:558:A:GLN:HG2	1:557:A:ASN:HB3	15	0.11
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG13	6	0.11
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG12	11	0.11
(1,904)	1:537:A:VAL:HA	1:537:A:VAL:HG13	14	0.11
(1,861)	1:562:A:GLU:HA	1:521:A:VAL:HG22	1	0.11
(1,861)	1:562:A:GLU:HA	1:521:A:VAL:HG21	6	0.11
(1,737)	1:534:A:GLU:H	1:552:A:LEU:HD23	14	0.11
(1,722)	1:540:A:LEU:HD13	1:590:A:ILE:HD11	4	0.11
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD12	3	0.11
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD13	9	0.11
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	10	0.11
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD12	12	0.11
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD13	13	0.11
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	15	0.11
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	17	0.11
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	20	0.11
(1,495)	1:586:A:GLU:HG2	1:586:A:GLU:H	14	0.11
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	17	0.11
(1,428)	1:560:A:PHE:HB3	1:560:A:PHE:H	23	0.11
(1,395)	1:573:A:VAL:HB	1:573:A:VAL:HG12	16	0.11
(1,387)	1:560:A:PHE:H	1:553:A:MET:HE1	14	0.11
(1,337)	1:547:A:VAL:HG12	1:561:A:LEU:HD12	1	0.11
(1,317)	1:547:A:VAL:HG11	1:549:A:ASN:HA	14	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,317)	1:547:A:VAL:HG11	1:549:A:ASN:HA	16	0.11
(1,316)	1:556:A:THR:HG21	1:553:A:MET:HA	21	0.11
(1,303)	1:524:A:ILE:HD11	1:590:A:ILE:HD12	4	0.11
(1,296)	1:538:A:ILE:HD12	1:547:A:VAL:HG12	25	0.11
(1,294)	1:538:A:ILE:HD11	1:534:A:GLU:HB3	20	0.11
(1,290)	1:615:A:ILE:HA	1:615:A:ILE:HD13	10	0.11
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	3	0.11
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	5	0.11
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	8	0.11
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	14	0.11
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	15	0.11
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG22	19	0.11
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD12	10	0.11
(1,284)	1:581:A:ALA:HB1	1:540:A:LEU:HD13	20	0.11
(1,284)	1:581:A:ALA:HB3	1:540:A:LEU:HD13	22	0.11
(1,274)	1:563:A:MET:HE3	1:522:A:VAL:HG23	19	0.11
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG23	6	0.11
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG23	7	0.11
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG21	9	0.11
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG21	10	0.11
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	11	0.11
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	16	0.11
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG21	20	0.11
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	24	0.11
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB3	14	0.11
(1,61)	1:592:A:MET:HE2	1:570:A:GLN:HA	6	0.11
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB1	10	0.11
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB2	11	0.11
(1,52)	1:615:A:ILE:HG23	1:615:A:ILE:H	23	0.11
(3,966)	1:542:A:LEU:HB3	1:546:A:LYS:H	9	0.1
(3,927)	1:574:A:GLN:HE22	1:570:A:GLN:HB3	24	0.1
(3,824)	1:559:A:ALA:HB2	1:537:A:VAL:HG11	10	0.1
(3,808)	1:563:A:MET:HE1	1:561:A:LEU:HD23	22	0.1
(3,808)	1:563:A:MET:HE1	1:561:A:LEU:HD21	24	0.1
(3,805)	1:573:A:VAL:HG23	1:592:A:MET:HE1	11	0.1
(3,792)	1:564:A:ALA:HB3	1:548:A:THR:HG22	14	0.1
(3,792)	1:547:A:VAL:HG21	1:542:A:LEU:HD22	20	0.1
(3,781)	1:573:A:VAL:HB	1:573:A:VAL:HG23	14	0.1
(3,778)	1:612:A:ILE:HB	1:612:A:ILE:HD12	25	0.1
(3,775)	1:583:A:ILE:HD11	1:583:A:ILE:HG13	21	0.1
(3,775)	1:583:A:ILE:HD13	1:583:A:ILE:HG13	24	0.1
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD11	14	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,772)	1:524:A:ILE:HG13	1:524:A:ILE:HD13	24	0.1
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD12	1	0.1
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD11	5	0.1
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD11	14	0.1
(3,763)	1:551:A:ILE:HG13	1:551:A:ILE:HD11	24	0.1
(3,747)	1:538:A:ILE:HG13	1:538:A:ILE:HD11	5	0.1
(3,747)	1:538:A:ILE:HG13	1:538:A:ILE:HD11	17	0.1
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG21	5	0.1
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG21	15	0.1
(3,744)	1:599:A:LEU:HG	1:521:A:VAL:HG23	24	0.1
(3,597)	1:587:A:LYS:HA	1:582:A:ILE:HG12	4	0.1
(3,597)	1:587:A:LYS:HA	1:582:A:ILE:HG12	20	0.1
(3,581)	1:548:A:THR:HB	1:548:A:THR:HG23	6	0.1
(3,581)	1:548:A:THR:HB	1:548:A:THR:HG22	19	0.1
(3,142)	1:606:A:LYS:HG2	1:606:A:LYS:HD3	12	0.1
(3,142)	1:606:A:LYS:HG2	1:606:A:LYS:HD3	21	0.1
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD11	8	0.1
(3,77)	1:610:A:ALA:HA	1:611:A:ILE:HD12	19	0.1
(3,9)	1:563:A:MET:HE2	1:576:A:TYR:HE1	17	0.1
(3,7)	1:563:A:MET:HE1	1:542:A:LEU:H	17	0.1
(1,1769)	1:612:A:ILE:HB	1:612:A:ILE:H	12	0.1
(1,1769)	1:612:A:ILE:HB	1:612:A:ILE:H	24	0.1
(1,1643)	1:579:A:LYS:H	1:580:A:PRO:HD2	20	0.1
(1,1514)	1:551:A:ILE:H	1:560:A:PHE:HB3	19	0.1
(1,1422)	1:540:A:LEU:HB3	1:541:A:GLY:H	20	0.1
(1,1312)	1:518:A:ALA:HB2	1:519:A:GLY:H	11	0.1
(1,1073)	1:557:A:ASN:HD21	1:557:A:ASN:HB3	14	0.1
(1,1051)	1:602:A:LYS:HD3	1:602:A:LYS:HE2	21	0.1
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	3	0.1
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	4	0.1
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	13	0.1
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	18	0.1
(1,1030)	1:590:A:ILE:HG13	1:590:A:ILE:HB	23	0.1
(1,1027)	1:540:A:LEU:HD21	1:581:A:ALA:HB3	1	0.1
(1,1010)	1:521:A:VAL:HG12	1:521:A:VAL:HG23	9	0.1
(1,895)	1:564:A:ALA:HA	1:548:A:THR:HG21	10	0.1
(1,861)	1:562:A:GLU:HA	1:521:A:VAL:HG22	11	0.1
(1,731)	1:582:A:ILE:HG23	1:583:A:ILE:H	14	0.1
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD12	6	0.1
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD12	14	0.1
(1,716)	1:590:A:ILE:HG13	1:590:A:ILE:HD11	19	0.1
(1,547)	1:610:A:ALA:H	1:609:A:ALA:H	13	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,495)	1:586:A:GLU:HG2	1:586:A:GLU:H	21	0.1
(1,486)	1:562:A:GLU:HG2	1:563:A:MET:H	1	0.1
(1,486)	1:562:A:GLU:HG2	1:563:A:MET:H	20	0.1
(1,484)	1:586:A:GLU:HG2	1:583:A:ILE:H	13	0.1
(1,391)	1:518:A:ALA:HB2	1:570:A:GLN:HE21	7	0.1
(1,380)	1:551:A:ILE:HG13	1:551:A:ILE:HD11	12	0.1
(1,318)	1:569:A:ALA:HA	1:522:A:VAL:HG23	4	0.1
(1,316)	1:556:A:THR:HG22	1:553:A:MET:HA	3	0.1
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG11	2	0.1
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	7	0.1
(1,313)	1:537:A:VAL:HB	1:537:A:VAL:HG12	14	0.1
(1,306)	1:588:A:LEU:HB2	1:581:A:ALA:HB1	7	0.1
(1,306)	1:588:A:LEU:HB2	1:581:A:ALA:HB3	19	0.1
(1,306)	1:588:A:LEU:HB2	1:581:A:ALA:HB1	20	0.1
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	2	0.1
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	6	0.1
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	10	0.1
(1,286)	1:524:A:ILE:HB	1:524:A:ILE:HG23	24	0.1
(1,282)	1:513:A:ALA:HB2	1:549:A:ASN:HA	3	0.1
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG22	3	0.1
(1,273)	1:615:A:ILE:HB	1:615:A:ILE:HG21	12	0.1
(1,129)	1:603:A:LYS:HA	1:602:A:LYS:HB3	10	0.1
(1,92)	1:545:A:GLY:HA2	1:570:A:GLN:H	3	0.1
(1,58)	1:568:A:ALA:HA	1:571:A:ALA:HB1	4	0.1

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

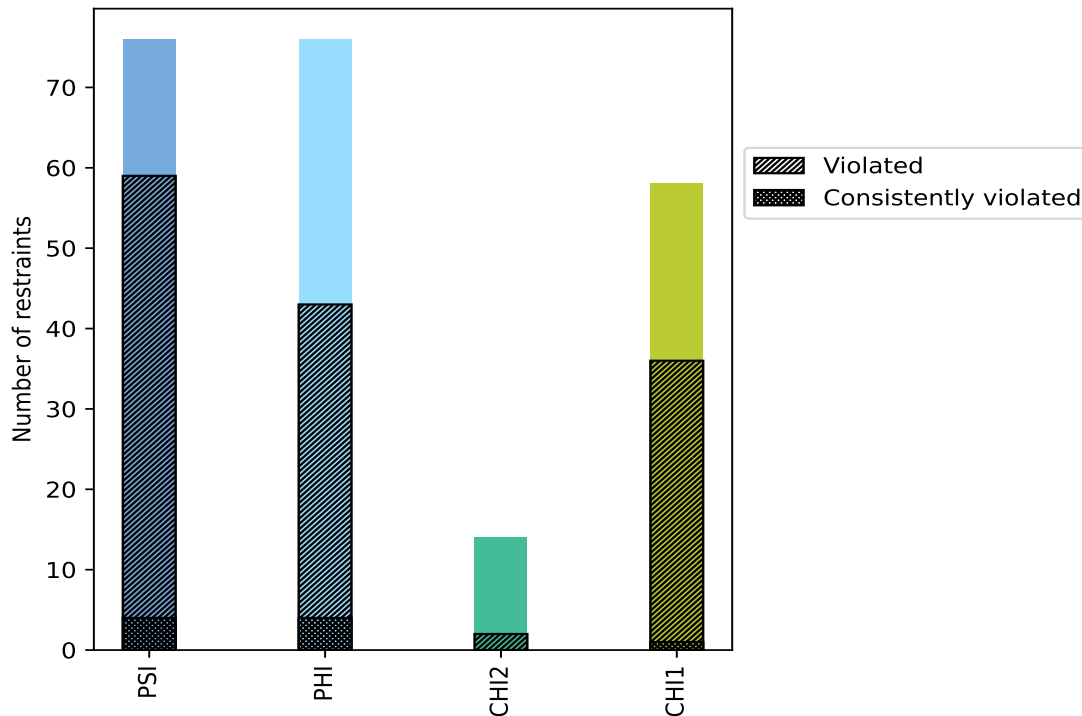
10.1 Summary of dihedral-angle violations [i](#)

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

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
PSI	76	33.9	59	77.6	26.3	4	5.3	1.8
PHI	76	33.9	43	56.6	19.2	4	5.3	1.8
CHI2	14	6.2	2	14.3	0.9	0	0.0	0.0
CHI1	58	25.9	36	62.1	16.1	1	1.7	0.4
Total	224	100.0	140	62.5	62.5	9	4.0	4.0

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

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



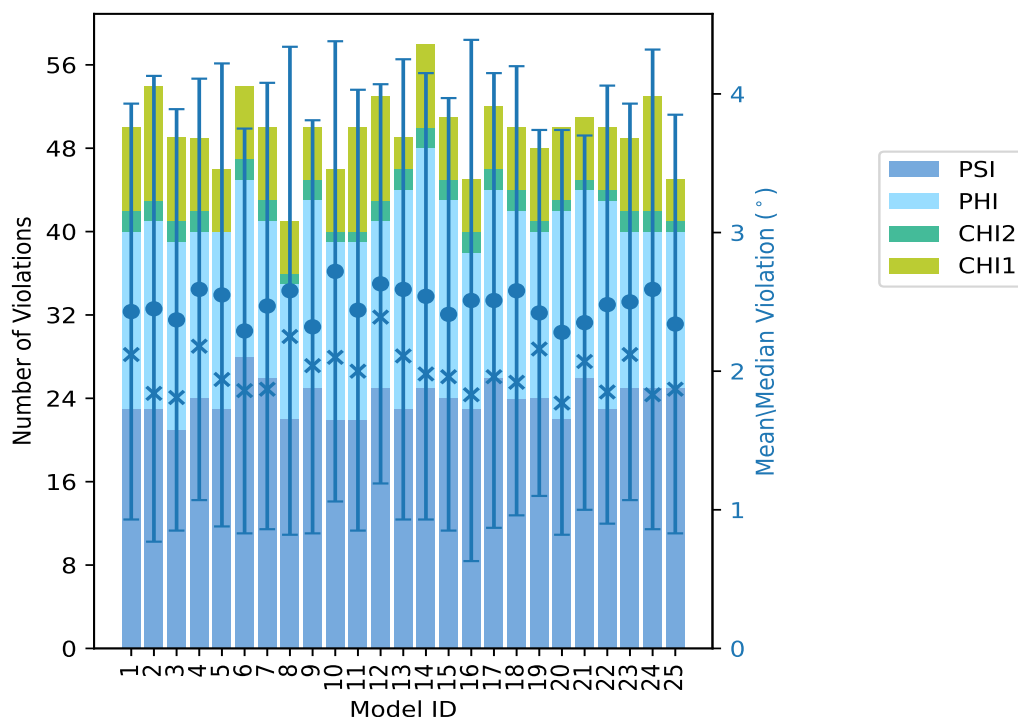
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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

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

Model ID	Number of violations					Mean (°)	Max (°)	SD (°)	Median (°)
	PSI	PHI	CHI2	CHI1	Total				
1	23	17	2	8	50	2.43	8.36	1.5	2.12
2	23	18	2	11	54	2.45	8.72	1.68	1.84
3	21	18	2	8	49	2.37	8.49	1.52	1.81
4	24	16	2	7	49	2.59	9.11	1.52	2.18
5	23	17	0	6	46	2.55	8.73	1.67	1.94
6	28	17	2	7	54	2.29	8.62	1.46	1.86
7	26	15	2	7	50	2.47	9.14	1.61	1.87
8	22	13	1	5	41	2.58	9.97	1.76	2.25
9	25	18	2	5	50	2.32	8.86	1.49	2.04
10	22	17	1	6	46	2.72	8.85	1.66	2.1
11	22	17	1	10	50	2.44	9.09	1.59	2.0
12	25	16	2	10	53	2.63	8.32	1.44	2.39
13	23	21	2	3	49	2.59	8.56	1.66	2.11
14	25	23	2	8	58	2.54	8.36	1.61	1.98
15	24	19	2	6	51	2.41	9.02	1.56	1.96
16	23	15	2	5	45	2.51	9.48	1.88	1.83
17	26	18	2	6	52	2.51	9.13	1.64	1.96
18	24	18	2	6	50	2.58	8.4	1.62	1.92
19	24	16	1	7	48	2.42	7.01	1.32	2.16
20	22	20	1	7	50	2.28	8.54	1.46	1.77
21	26	18	1	6	51	2.35	7.92	1.35	2.07
22	23	20	1	6	50	2.48	8.23	1.58	1.85
23	25	15	2	7	49	2.5	7.36	1.43	2.12
24	25	15	2	11	53	2.59	8.74	1.73	1.83
25	25	15	1	4	45	2.34	8.42	1.51	1.87

10.2.1 Bar graph : Dihedral violation statistics for each model [i](#)



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

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

Violation analysis may find that some restraints are violated in very few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of ensemble.

Number of violated restraints					Fraction of the ensemble	
PSI	PHI	CHI2	CHI1	Total	Count ¹	%
11	7	0	14	32	1	4.0
3	1	0	5	9	2	8.0
7	3	0	3	13	3	12.0
4	0	0	4	8	4	16.0
3	4	0	1	8	5	20.0
0	4	0	1	5	6	24.0
3	4	0	2	9	7	28.0
1	3	0	1	5	8	32.0
1	0	0	0	1	9	36.0
2	1	0	0	3	10	40.0
1	1	0	1	3	11	44.0

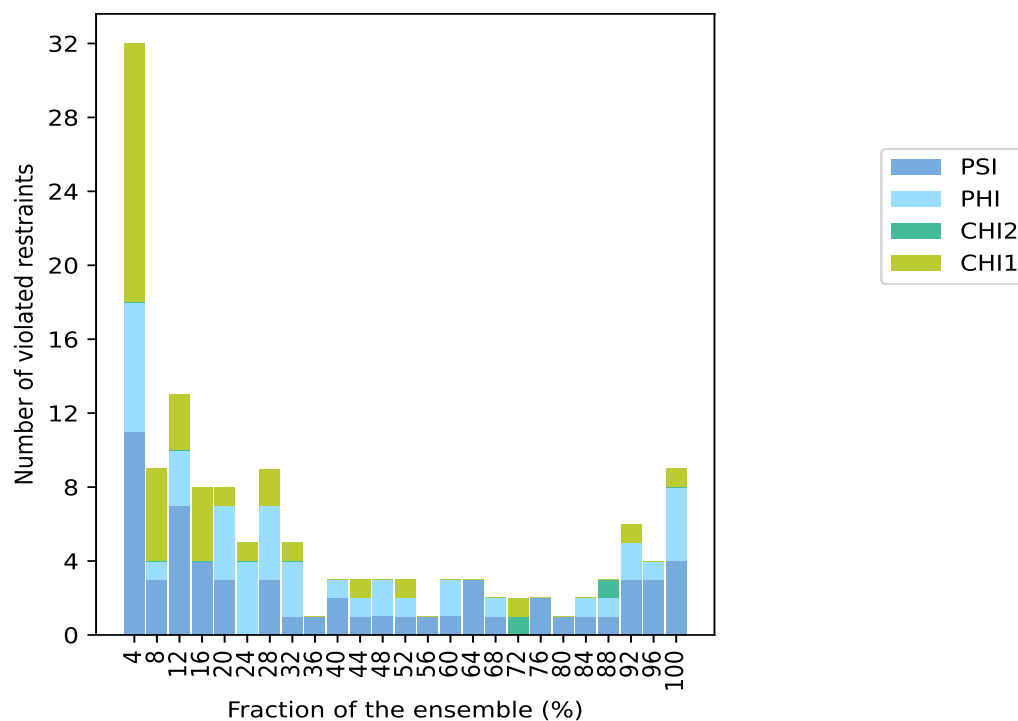
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Number of violated restraints					Fraction of the ensemble	
PSI	PHI	CHI2	CHI1	Total	Count ¹	%
1	2	0	0	3	12	48.0
1	1	0	1	3	13	52.0
1	0	0	0	1	14	56.0
1	2	0	0	3	15	60.0
3	0	0	0	3	16	64.0
1	1	0	0	2	17	68.0
0	0	1	1	2	18	72.0
2	0	0	0	2	19	76.0
1	0	0	0	1	20	80.0
1	1	0	0	2	21	84.0
1	1	1	0	3	22	88.0
3	2	0	1	6	23	92.0
3	1	0	0	4	24	96.0
4	4	0	1	9	25	100.0

¹ Number of models with violations

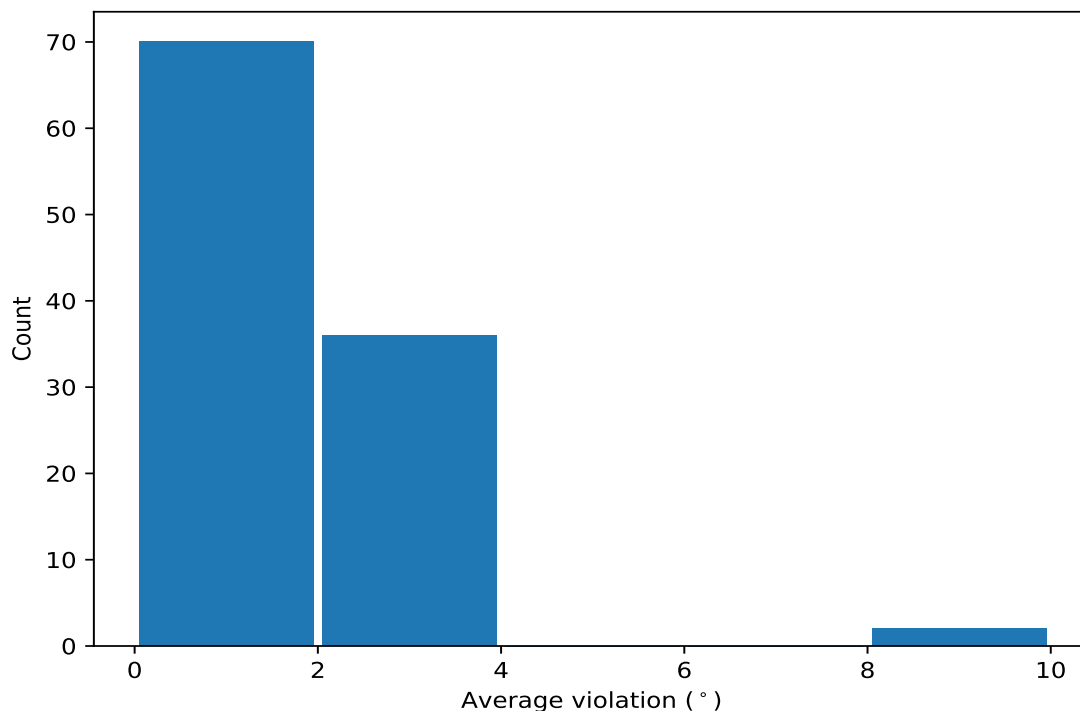
10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)



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

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

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



10.4.2 Table: Most violated dihedral-angle restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Medi
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	25	8.44	0.73	8.4
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	25	8.14	0.57	8.1
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	25	3.98	1.27	3.9
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	25	3.96	0.76	3.8
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	25	3.94	0.86	3.8
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	25	3.42	0.75	3.6
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	25	3.1	0.66	3.0
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	25	2.59	0.75	2.6
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	25	2.41	0.83	2.3
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	24	3.49	1.07	3.7
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	24	2.94	0.56	2.9
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	24	2.74	0.69	2.7
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	24	2.34	0.51	2.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Medi
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	23	3.11	0.94	3.08
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	23	2.82	0.85	2.64
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	23	2.33	0.88	2.07
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	23	2.3	0.48	2.44
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	23	1.85	0.59	1.83
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	23	1.56	0.35	1.51
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	22	2.95	1.29	2.83
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	22	2.13	0.76	1.83
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	22	1.55	0.34	1.46
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	21	3.23	1.31	3.11
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	21	2.0	0.73	1.97
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	20	2.32	1.04	2.08
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	19	2.57	0.99	2.38
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	19	1.79	0.56	1.74
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	18	3.02	1.06	3.11
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	18	1.55	0.36	1.48
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	17	2.15	0.75	2.11
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	17	1.47	0.49	1.34
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	16	1.98	0.68	1.96
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	16	1.56	0.47	1.38
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	16	1.5	0.36	1.51
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	15	1.95	0.89	1.63
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	15	1.89	0.74	1.51
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	15	1.74	0.43	1.67
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	14	2.21	0.8	2.04
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	13	2.55	0.9	2.44
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	13	1.73	0.68	1.44
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	13	1.27	0.15	1.23
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	12	1.57	0.54	1.44
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	12	1.56	0.42	1.63
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	12	1.5	0.29	1.53
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	11	2.29	0.66	2.22
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	11	1.63	0.36	1.63
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	11	1.48	0.23	1.47
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	10	1.87	0.64	1.76
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	10	1.7	0.34	1.64
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	10	1.52	0.47	1.34
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	9	3.6	1.24	4.23
(1,77)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:C	1:521:A:VAL:N	8	2.71	1.25	2.63
(1,191)	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:CB	1:584:A:ASN:CG	8	2.09	0.65	1.83
(1,64)	1:585:A:GLY:C	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	8	1.74	0.55	1.76
(1,61)	1:582:A:ILE:C	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	8	1.59	0.38	1.63
(1,45)	1:566:A:THR:C	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	8	1.5	0.38	1.51
(1,2)	1:520:A:ARG:C	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	7	2.06	0.88	1.77
(1,203)	1:611:A:ILE:N	1:611:A:ILE:CA	1:611:A:ILE:CB	1:611:A:ILE:CG1	7	1.96	0.57	1.93
(1,190)	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:CB	1:583:A:ILE:CG1	7	1.92	0.69	1.64
(1,14)	1:532:A:CYS:C	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	7	1.78	0.7	1.34
(1,79)	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	1:523:A:HIS:N	7	1.63	0.55	1.53
(1,87)	1:530:A:GLY:N	1:530:A:GLY:CA	1:530:A:GLY:C	1:531:A:SER:N	7	1.48	0.43	1.29
(1,48)	1:569:A:ALA:C	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	7	1.38	0.34	1.33
(1,113)	1:558:A:GLN:N	1:558:A:GLN:CA	1:558:A:GLN:C	1:559:A:ALA:N	7	1.36	0.21	1.29

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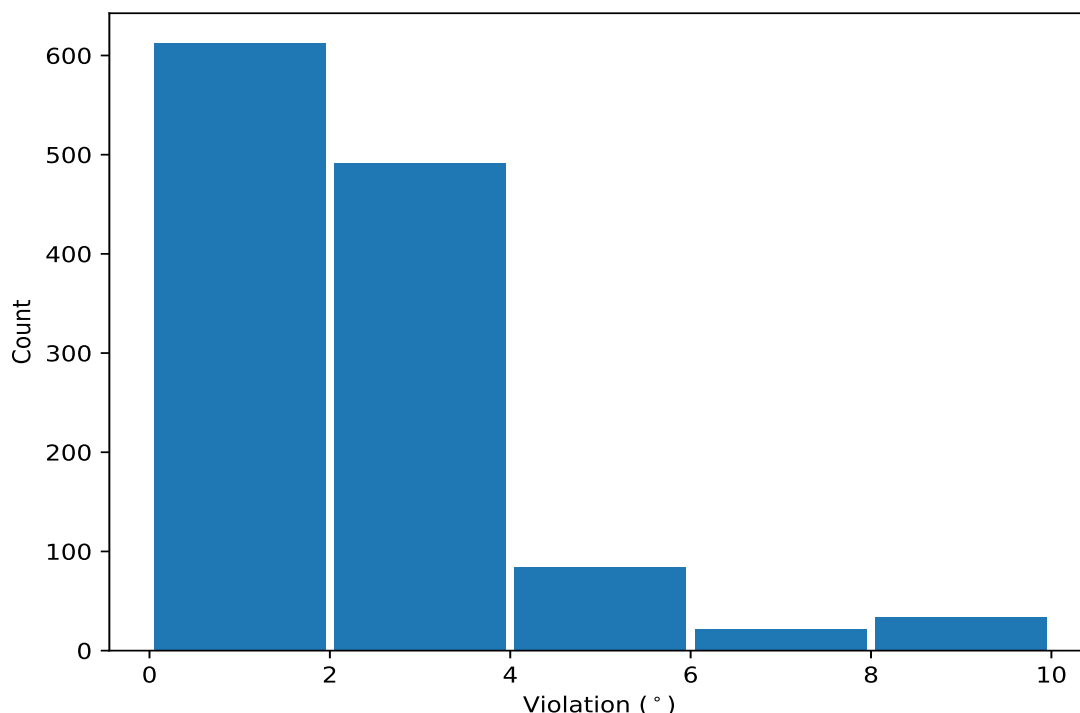
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Medi
(1,51)	1:572:A:MET:C	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	7	1.2	0.05	1.19
(1,3)	1:521:A:VAL:C	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	6	2.92	0.8	3.22
(1,76)	1:598:A:GLU:C	1:599:A:LEU:N	1:599:A:LEU:CA	1:599:A:LEU:C	6	2.36	0.61	2.55
(1,157)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:CB	1:521:A:VAL:CG1	6	1.61	0.36	1.61
(1,67)	1:588:A:LEU:C	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	6	1.45	0.23	1.51
(1,4)	1:522:A:VAL:C	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	6	1.4	0.43	1.22
(1,5)	1:523:A:HIS:C	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:C	5	1.88	0.84	1.61
(1,82)	1:525:A:CYS:N	1:525:A:CYS:CA	1:525:A:CYS:C	1:526:A:ASN:N	5	1.75	0.12	1.67
(1,70)	1:591:A:ARG:C	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:C	5	1.66	0.5	1.68
(1,154)	1:515:A:ARG:N	1:515:A:ARG:CA	1:515:A:ARG:CB	1:515:A:ARG:CG	5	1.63	0.57	1.53
(1,27)	1:548:A:THR:C	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	5	1.56	0.5	1.44
(1,28)	1:549:A:ASN:C	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	5	1.53	0.3	1.43
(1,114)	1:559:A:ALA:N	1:559:A:ALA:CA	1:559:A:ALA:C	1:560:A:PHE:N	5	1.45	0.15	1.36
(1,149)	1:595:A:ARG:N	1:595:A:ARG:CA	1:595:A:ARG:C	1:596:A:TYR:N	5	1.28	0.29	1.07
(1,166)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:CB	1:539:A:ASN:CG	4	2.34	0.76	2.36
(1,153)	1:514:A:GLN:N	1:514:A:GLN:CA	1:514:A:GLN:CB	1:514:A:GLN:CG	4	2.2	0.8	2.07
(1,181)	1:565:A:TYR:N	1:565:A:TYR:CA	1:565:A:TYR:CB	1:565:A:TYR:CG	4	1.63	0.6	1.36
(1,159)	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:CB	1:524:A:ILE:CG1	4	1.53	0.2	1.52
(1,122)	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	1:568:A:ALA:N	4	1.36	0.18	1.44
(1,86)	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	1:530:A:GLY:N	4	1.36	0.1	1.38
(1,107)	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	1:553:A:MET:N	4	1.3	0.3	1.22
(1,90)	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	1:534:A:GLU:N	4	1.21	0.12	1.17
(1,155)	1:516:A:LYS:N	1:516:A:LYS:CA	1:516:A:LYS:CB	1:516:A:LYS:CG	3	2.16	0.79	1.73
(1,198)	1:600:A:GLN:N	1:600:A:GLN:CA	1:600:A:GLN:CB	1:600:A:GLN:CG	3	1.93	1.04	1.33
(1,119)	1:564:A:ALA:N	1:564:A:ALA:CA	1:564:A:ALA:C	1:565:A:TYR:N	3	1.93	0.42	2.18
(1,152)	1:598:A:GLU:N	1:598:A:GLU:CA	1:598:A:GLU:C	1:599:A:LEU:N	3	1.54	0.49	1.22
(1,115)	1:560:A:PHE:N	1:560:A:PHE:CA	1:560:A:PHE:C	1:561:A:LEU:N	3	1.52	0.24	1.67
(1,136)	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	1:582:A:ILE:N	3	1.45	0.27	1.33
(1,47)	1:568:A:ALA:C	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	3	1.42	0.39	1.22
(1,102)	1:547:A:VAL:N	1:547:A:VAL:CA	1:547:A:VAL:C	1:548:A:THR:N	3	1.4	0.48	1.07
(1,180)	1:563:A:MET:N	1:563:A:MET:CA	1:563:A:MET:CB	1:563:A:MET:CG	3	1.32	0.14	1.37
(1,46)	1:567:A:GLU:C	1:568:A:ALA:N	1:568:A:ALA:CA	1:568:A:ALA:C	3	1.31	0.2	1.22
(1,131)	1:576:A:TYR:N	1:576:A:TYR:CA	1:576:A:TYR:C	1:577:A:GLN:N	3	1.21	0.16	1.19
(1,80)	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	1:524:A:ILE:N	3	1.12	0.1	1.08
(1,18)	1:536:A:ASP:C	1:537:A:VAL:N	1:537:A:VAL:CA	1:537:A:VAL:C	3	1.05	0.02	1.03
(1,194)	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:CB	1:592:A:MET:CG	2	2.17	0.89	2.17
(1,147)	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:C	1:593:A:SER:N	2	1.94	0.86	1.94
(1,206)	1:616:A:HIS:N	1:616:A:HIS:CA	1:616:A:HIS:CB	1:616:A:HIS:CG	2	1.92	0.08	1.92
(1,163)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:CB	1:536:A:ASP:CG	2	1.82	0.08	1.82
(1,118)	1:563:A:MET:N	1:563:A:MET:CA	1:563:A:MET:C	1:564:A:ALA:N	2	1.62	0.42	1.62
(1,146)	1:591:A:ARG:N	1:591:A:ARG:CA	1:591:A:ARG:C	1:592:A:MET:N	2	1.5	0.29	1.5
(1,179)	1:561:A:LEU:N	1:561:A:LEU:CA	1:561:A:LEU:CB	1:561:A:LEU:CG	2	1.48	0.46	1.48
(1,201)	1:606:A:LYS:N	1:606:A:LYS:CA	1:606:A:LYS:CB	1:606:A:LYS:CG	2	1.39	0.17	1.39
(1,26)	1:547:A:VAL:C	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	2	1.35	0.31	1.35

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

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

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

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



10.5.2 Table: All violated dihedral-angle restraints [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	8	9.97
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	16	9.48
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	16	9.43
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	7	9.14
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	17	9.13
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	4	9.11
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	11	9.09
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	15	9.02
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	11	8.9
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	9	8.86
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	10	8.85
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	24	8.74
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	5	8.73
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	2	8.72

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	6	8.62
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	8	8.57
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	13	8.56
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	20	8.54
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	3	8.49
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	25	8.42
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	18	8.4
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	14	8.36
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1	8.36
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	12	8.32
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	17	8.31
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	18	8.3
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	4	8.26
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	22	8.23
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	1	8.21
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	5	8.21
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	7	8.17
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	14	8.14
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	24	8.1
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	13	8.07
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	15	7.93
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	2	7.92
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	21	7.92
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	22	7.9
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	3	7.89
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	25	7.88
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	10	7.84
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	20	7.73
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	6	7.58
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	23	7.36
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	9	7.34
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	23	7.32
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	21	7.3
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	12	7.21
(1,99)	1:543:A:PRO:N	1:543:A:PRO:CA	1:543:A:PRO:C	1:544:A:PHE:N	19	7.01
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	23	6.82
(1,24)	1:543:A:PRO:C	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	19	6.5
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	24	6.35
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	18	6.23
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	2	6.16
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	24	6.14
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	16	6.04
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	2	5.78
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	14	5.67
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	9	5.65
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	14	5.5
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	10	5.45
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	19	5.42
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	2	5.2
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	22	5.15
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	22	5.15

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	13	5.1
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	16	5.07
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	10	4.99
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	3	4.96
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	10	4.94
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	18	4.92
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	12	4.87
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	10	4.78
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	1	4.77
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	24	4.75
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	20	4.75
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	14	4.74
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	12	4.73
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	17	4.69
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	2	4.67
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	22	4.66
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	5	4.64
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	18	4.6
(1,77)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:C	1:521:A:VAL:N	14	4.6
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	5	4.58
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	8	4.58
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1	4.57
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	6	4.53
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	15	4.52
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	17	4.52
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	4	4.49
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	6	4.49
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	7	4.48
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	5	4.48
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	13	4.47
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	13	4.46
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	4	4.44
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	2	4.42
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	24	4.42
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	13	4.4
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	14	4.36
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	24	4.36
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	17	4.33
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	14	4.32
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	12	4.31
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	22	4.3
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	23	4.29
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	16	4.28
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	17	4.26
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	17	4.24
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	6	4.23
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	18	4.23
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	5	4.23
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	25	4.23
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	12	4.23
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	1	4.22

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	11	4.22
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	1	4.22
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	24	4.21
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	3	4.19
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	19	4.18
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	5	4.18
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	15	4.17
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	13	4.17
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	4	4.16
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	13	4.15
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	16	4.15
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	11	4.14
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	8	4.12
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	18	4.09
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	17	4.09
(1,77)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:C	1:521:A:VAL:N	12	4.09
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	15	4.07
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	24	4.07
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	18	4.05
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	13	4.04
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	15	4.03
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	16	4.03
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	7	4.03
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	22	4.0
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	13	3.98
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	17	3.98
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	18	3.98
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	10	3.97
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	20	3.97
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	19	3.95
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	19	3.93
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	2	3.92
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	5	3.89
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	10	3.89
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	25	3.89
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	7	3.88
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	8	3.88
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	12	3.87
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	2	3.85
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	7	3.85
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	3	3.84
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	17	3.83
(1,3)	1:521:A:VAL:C	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	14	3.83
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	24	3.81
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	21	3.81
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	14	3.79
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	7	3.79
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	19	3.79
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1	3.79
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	13	3.78
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	7	3.78

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	3	3.78
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	4	3.77
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	17	3.77
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	10	3.74
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	22	3.73
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	22	3.72
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	11	3.72
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	11	3.71
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	21	3.7
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	10	3.69
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	3	3.68
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	21	3.68
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	9	3.67
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	6	3.66
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	22	3.64
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	14	3.64
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	7	3.64
(1,77)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:C	1:521:A:VAL:N	10	3.63
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	9	3.63
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	5	3.62
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	5	3.61
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	18	3.61
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	15	3.6
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	25	3.6
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	5	3.59
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	11	3.59
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	8	3.57
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	23	3.56
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	15	3.56
(1,3)	1:521:A:VAL:C	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	23	3.56
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	12	3.54
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	12	3.54
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	6	3.53
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	13	3.52
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	13	3.52
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	7	3.51
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	6	3.51
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	11	3.51
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	18	3.51
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	24	3.5
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	14	3.49
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	2	3.49
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	7	3.49
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	25	3.49
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	5	3.49
(1,2)	1:520:A:ARG:C	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	10	3.49
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	22	3.48
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	6	3.48
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	23	3.47
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	19	3.47
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	17	3.47

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	5	3.45
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	12	3.45
(1,3)	1:521:A:VAL:C	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	11	3.45
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	16	3.44
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	20	3.44
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	21	3.44
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	10	3.44
(1,153)	1:514:A:GLN:N	1:514:A:GLN:CA	1:514:A:GLN:CB	1:514:A:GLN:CG	4	3.43
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	8	3.43
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	25	3.43
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	3	3.42
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	4	3.41
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	11	3.41
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	23	3.41
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	13	3.41
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	12	3.4
(1,198)	1:600:A:GLN:N	1:600:A:GLN:CA	1:600:A:GLN:CB	1:600:A:GLN:CG	4	3.39
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	14	3.39
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	4	3.39
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	10	3.38
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	21	3.38
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	16	3.38
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	19	3.37
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	23	3.37
(1,5)	1:523:A:HIS:C	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:C	8	3.37
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	15	3.36
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	21	3.36
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	20	3.35
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	7	3.34
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	21	3.32
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	7	3.32
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	24	3.31
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	14	3.31
(1,166)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:CB	1:539:A:ASN:CG	23	3.3
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	4	3.3
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	25	3.3
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	8	3.29
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	3	3.28
(1,190)	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:CB	1:583:A:ILE:CG1	18	3.28
(1,155)	1:516:A:LYS:N	1:516:A:LYS:CA	1:516:A:LYS:CB	1:516:A:LYS:CG	24	3.28
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	15	3.28
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	2	3.27
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	4	3.26
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	24	3.25
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	13	3.25
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	16	3.25
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	2	3.23
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	15	3.23
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	22	3.22
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	14	3.21
(1,77)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:C	1:521:A:VAL:N	9	3.21

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	8	3.21
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	16	3.21
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	17	3.2
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	20	3.2
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	21	3.2
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	14	3.2
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	24	3.19
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	7	3.18
(1,2)	1:520:A:ARG:C	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	15	3.18
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	15	3.17
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	12	3.16
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	12	3.16
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	19	3.15
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	3	3.15
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	22	3.14
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	3	3.14
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	20	3.12
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	24	3.12
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	23	3.12
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	6	3.12
(1,191)	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:CB	1:584:A:ASN:CG	11	3.09
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	1	3.09
(1,191)	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:CB	1:584:A:ASN:CG	7	3.08
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	21	3.08
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	10	3.08
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	21	3.07
(1,194)	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:CB	1:592:A:MET:CG	14	3.06
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	9	3.06
(1,76)	1:598:A:GLU:C	1:599:A:LEU:N	1:599:A:LEU:CA	1:599:A:LEU:C	24	3.06
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	2	3.06
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	9	3.05
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	21	3.05
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	12	3.04
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	9	3.04
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	23	3.04
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	11	3.03
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	25	3.03
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	12	3.03
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	21	3.03
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	17	3.02
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	18	3.02
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	12	3.02
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	3	3.01
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	13	3.0
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	7	3.0
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	9	3.0
(1,14)	1:532:A:CYS:C	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	15	3.0
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	14	3.0
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	12	2.99
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	23	2.98
(1,3)	1:521:A:VAL:C	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	12	2.98

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	21	2.96
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	19	2.94
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	5	2.94
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	22	2.94
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	15	2.93
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	14	2.93
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	7	2.92
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	14	2.92
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	20	2.92
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	1	2.92
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	8	2.92
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	24	2.92
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	20	2.92
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	19	2.91
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	19	2.91
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	7	2.91
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	24	2.9
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	13	2.9
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	12	2.9
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	7	2.9
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	1	2.89
(1,76)	1:598:A:GLU:C	1:599:A:LEU:N	1:599:A:LEU:CA	1:599:A:LEU:C	13	2.89
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	9	2.88
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	14	2.88
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	10	2.86
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	25	2.85
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	11	2.85
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	2	2.85
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	16	2.85
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	1	2.84
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	20	2.84
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	24	2.84
(1,76)	1:598:A:GLU:C	1:599:A:LEU:N	1:599:A:LEU:CA	1:599:A:LEU:C	6	2.84
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	12	2.84
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	8	2.83
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	5	2.83
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	16	2.83
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	25	2.82
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	6	2.82
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	22	2.82
(1,166)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:CB	1:539:A:ASN:CG	16	2.81
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	6	2.81
(1,147)	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:C	1:593:A:SER:N	12	2.81
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	4	2.81
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	15	2.8
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	19	2.79
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	17	2.79
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	4	2.79
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	21	2.79
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	19	2.79
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	12	2.77

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,79)	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	1:523:A:HIS:N	21	2.76
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	10	2.76
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	20	2.76
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	10	2.75
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	15	2.75
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	25	2.74
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	2	2.74
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	25	2.74
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	20	2.73
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	8	2.72
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	18	2.72
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	21	2.71
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	10	2.71
(1,203)	1:611:A:ILE:N	1:611:A:ILE:CA	1:611:A:ILE:CB	1:611:A:ILE:CG1	12	2.7
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	6	2.7
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	9	2.7
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	9	2.7
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	17	2.7
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	14	2.69
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	1	2.69
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	3	2.69
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	4	2.69
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	14	2.69
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	19	2.69
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	4	2.69
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	17	2.68
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	3	2.68
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	1	2.68
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	1	2.68
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	16	2.68
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	9	2.67
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	2	2.67
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	5	2.67
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	21	2.66
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	15	2.66
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	3	2.66
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	23	2.66
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	18	2.66
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	25	2.65
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	19	2.65
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	1	2.65
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	20	2.65
(1,50)	1:571:A:ALA:C	1:572:A:MET:N	1:572:A:MET:CA	1:572:A:MET:C	23	2.65
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	18	2.65
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	11	2.64
(1,181)	1:565:A:TYR:N	1:565:A:TYR:CA	1:565:A:TYR:CB	1:565:A:TYR:CG	9	2.64
(1,154)	1:515:A:ARG:N	1:515:A:ARG:CA	1:515:A:ARG:CB	1:515:A:ARG:CG	11	2.64
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	14	2.64
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	1	2.64
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	24	2.64
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	8	2.63

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	3	2.63
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	5	2.62
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	22	2.62
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	6	2.62
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	20	2.62
(1,126)	1:571:A:ALA:N	1:571:A:ALA:CA	1:571:A:ALA:C	1:572:A:MET:N	23	2.6
(1,64)	1:585:A:GLY:C	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1	2.6
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	17	2.6
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	14	2.6
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	20	2.59
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	9	2.59
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	23	2.59
(1,203)	1:611:A:ILE:N	1:611:A:ILE:CA	1:611:A:ILE:CB	1:611:A:ILE:CG1	4	2.58
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	25	2.58
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	23	2.58
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	4	2.58
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	25	2.57
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	10	2.57
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	2	2.57
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	12	2.56
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	23	2.56
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	5	2.56
(1,68)	1:589:A:LEU:C	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	18	2.55
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	17	2.55
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	5	2.54
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	18	2.54
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	4	2.54
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	22	2.54
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	8	2.54
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	6	2.53
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	22	2.52
(1,70)	1:591:A:ARG:C	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:C	6	2.52
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	24	2.52
(1,27)	1:548:A:THR:C	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	15	2.52
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	19	2.52
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	18	2.51
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	13	2.5
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	9	2.5
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	8	2.5
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	11	2.49
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	12	2.48
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	16	2.48
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	23	2.48
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	4	2.48
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	22	2.47
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	17	2.47
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	13	2.46
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	2	2.46
(1,190)	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:CB	1:583:A:ILE:CG1	11	2.45
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	20	2.44
(1,14)	1:532:A:CYS:C	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	20	2.44

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	7	2.43
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	14	2.43
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	4	2.43
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	23	2.43
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	1	2.43
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	21	2.42
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	20	2.42
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	20	2.41
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	3	2.41
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	11	2.41
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	12	2.39
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	8	2.39
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	2	2.38
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	25	2.38
(1,61)	1:582:A:ILE:C	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	22	2.38
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	12	2.38
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	13	2.37
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	17	2.36
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	19	2.36
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	13	2.36
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	2	2.35
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	23	2.35
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	5	2.35
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	4	2.35
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	19	2.35
(1,191)	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:CB	1:584:A:ASN:CG	15	2.34
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	7	2.34
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	11	2.34
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	3	2.34
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	13	2.33
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	1	2.33
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	3	2.33
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	4	2.33
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	8	2.33
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	19	2.32
(1,203)	1:611:A:ILE:N	1:611:A:ILE:CA	1:611:A:ILE:CB	1:611:A:ILE:CG1	1	2.32
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	2	2.32
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	22	2.32
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	16	2.32
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	18	2.32
(1,4)	1:522:A:VAL:C	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	21	2.32
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	8	2.31
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	11	2.3
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	15	2.3
(1,153)	1:514:A:GLN:N	1:514:A:GLN:CA	1:514:A:GLN:CB	1:514:A:GLN:CG	8	2.29
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	17	2.29
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	10	2.29
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	12	2.29
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	9	2.29
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	11	2.28
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	18	2.28

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	9	2.27
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	20	2.27
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	14	2.26
(1,119)	1:564:A:ALA:N	1:564:A:ALA:CA	1:564:A:ALA:C	1:565:A:TYR:N	23	2.26
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	15	2.25
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	25	2.25
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	15	2.25
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	8	2.25
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	13	2.25
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	15	2.25
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	6	2.25
(1,152)	1:598:A:GLU:N	1:598:A:GLU:CA	1:598:A:GLU:C	1:599:A:LEU:N	20	2.23
(1,87)	1:530:A:GLY:N	1:530:A:GLY:CA	1:530:A:GLY:C	1:531:A:SER:N	23	2.23
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	21	2.23
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1	2.23
(1,45)	1:566:A:THR:C	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	3	2.23
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	9	2.23
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	6	2.22
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	19	2.22
(1,100)	1:544:A:PHE:N	1:544:A:PHE:CA	1:544:A:PHE:C	1:545:A:GLY:N	1	2.21
(1,64)	1:585:A:GLY:C	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	16	2.21
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	9	2.21
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	9	2.2
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	15	2.2
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	21	2.2
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	4	2.2
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	19	2.19
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	21	2.19
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	25	2.19
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	3	2.19
(1,2)	1:520:A:ARG:C	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	22	2.19
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	2	2.18
(1,119)	1:564:A:ALA:N	1:564:A:ALA:CA	1:564:A:ALA:C	1:565:A:TYR:N	25	2.18
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	17	2.18
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	6	2.18
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	19	2.18
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	4	2.18
(1,156)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:CB	1:520:A:ARG:CG	1	2.17
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	9	2.17
(1,76)	1:598:A:GLU:C	1:599:A:LEU:N	1:599:A:LEU:CA	1:599:A:LEU:C	7	2.17
(1,14)	1:532:A:CYS:C	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	4	2.17
(1,5)	1:523:A:HIS:C	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:C	9	2.17
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	18	2.16
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	21	2.15
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	10	2.15
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	18	2.15
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	11	2.15
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	19	2.15
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	4	2.15
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	1	2.15
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	1	2.13

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	18	2.13
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	1	2.12
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	23	2.12
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	1	2.12
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	24	2.12
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	4	2.12
(1,64)	1:585:A:GLY:C	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	17	2.12
(1,28)	1:549:A:ASN:C	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	5	2.12
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	6	2.11
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	13	2.11
(1,3)	1:521:A:VAL:C	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	10	2.11
(1,64)	1:585:A:GLY:C	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	10	2.1
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	8	2.09
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	4	2.09
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	11	2.09
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	6	2.09
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	6	2.08
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	23	2.08
(1,157)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:CB	1:521:A:VAL:CG1	10	2.08
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	9	2.08
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	24	2.08
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	6	2.08
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	2	2.08
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	23	2.07
(1,102)	1:547:A:VAL:N	1:547:A:VAL:CA	1:547:A:VAL:C	1:548:A:THR:N	21	2.07
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	3	2.07
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	4	2.07
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	24	2.07
(1,190)	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:CB	1:583:A:ILE:CG1	19	2.06
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	3	2.06
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	23	2.06
(1,87)	1:530:A:GLY:N	1:530:A:GLY:CA	1:530:A:GLY:C	1:531:A:SER:N	12	2.06
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	14	2.06
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	10	2.05
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	11	2.05
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	13	2.05
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	1	2.04
(1,118)	1:563:A:MET:N	1:563:A:MET:CA	1:563:A:MET:C	1:564:A:ALA:N	23	2.04
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	5	2.04
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	25	2.04
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	7	2.03
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	24	2.03
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	4	2.03
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	2	2.03
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	14	2.02
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	5	2.02
(1,195)	1:595:A:ARG:N	1:595:A:ARG:CA	1:595:A:ARG:CB	1:595:A:ARG:CG	1	2.01
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	17	2.01
(1,77)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:C	1:521:A:VAL:N	23	2.01
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	20	2.01
(1,206)	1:616:A:HIS:N	1:616:A:HIS:CA	1:616:A:HIS:CB	1:616:A:HIS:CG	11	2.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	11	2.0
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	17	2.0
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	22	2.0
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	9	2.0
(1,48)	1:569:A:ALA:C	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	20	2.0
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	9	1.99
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	2	1.99
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	11	1.98
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	3	1.98
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	23	1.98
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	4	1.97
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	6	1.97
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	12	1.97
(1,47)	1:568:A:ALA:C	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	12	1.97
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	22	1.97
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	15	1.96
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	19	1.96
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	13	1.96
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	18	1.95
(1,79)	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	1:523:A:HIS:N	16	1.95
(1,179)	1:561:A:LEU:N	1:561:A:LEU:CA	1:561:A:LEU:CB	1:561:A:LEU:CG	1	1.94
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	8	1.94
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	14	1.94
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	10	1.94
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	9	1.94
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1	1.94
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	15	1.93
(1,157)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:CB	1:521:A:VAL:CG1	11	1.93
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	17	1.93
(1,203)	1:611:A:ILE:N	1:611:A:ILE:CA	1:611:A:ILE:CB	1:611:A:ILE:CG1	14	1.92
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	8	1.92
(1,82)	1:525:A:CYS:N	1:525:A:CYS:CA	1:525:A:CYS:C	1:526:A:ASN:N	25	1.92
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	11	1.92
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	7	1.91
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	13	1.9
(1,166)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:CB	1:539:A:ASN:CG	11	1.9
(1,163)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:CB	1:536:A:ASP:CG	2	1.9
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	14	1.9
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	6	1.89
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	18	1.89
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	4	1.89
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	7	1.89
(1,157)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:CB	1:521:A:VAL:CG1	12	1.88
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	9	1.88
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	10	1.87
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	12	1.87
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	25	1.87
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	22	1.87
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	5	1.86
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	12	1.86
(1,82)	1:525:A:CYS:N	1:525:A:CYS:CA	1:525:A:CYS:C	1:526:A:ASN:N	6	1.86

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	6	1.86
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	2	1.86
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	16	1.86
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	9	1.85
(1,153)	1:514:A:GLN:N	1:514:A:GLN:CA	1:514:A:GLN:CB	1:514:A:GLN:CG	7	1.85
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	23	1.85
(1,206)	1:616:A:HIS:N	1:616:A:HIS:CA	1:616:A:HIS:CB	1:616:A:HIS:CG	19	1.84
(1,113)	1:558:A:GLN:N	1:558:A:GLN:CA	1:558:A:GLN:C	1:559:A:ALA:N	16	1.84
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	18	1.84
(1,52)	1:573:A:VAL:C	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	18	1.84
(1,191)	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:CB	1:584:A:ASN:CG	12	1.83
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	16	1.83
(1,136)	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	1:582:A:ILE:N	16	1.83
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	24	1.83
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	17	1.83
(1,61)	1:582:A:ILE:C	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	14	1.83
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	25	1.83
(1,191)	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:CB	1:584:A:ASN:CG	19	1.82
(1,159)	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:CB	1:524:A:ILE:CG1	2	1.82
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	22	1.82
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	18	1.82
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	5	1.82
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	9	1.81
(1,208)	1:619:A:ARG:N	1:619:A:ARG:CA	1:619:A:ARG:CB	1:619:A:ARG:CG	25	1.81
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	3	1.81
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	21	1.81
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	23	1.81
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	11	1.81
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	4	1.8
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	24	1.8
(1,146)	1:591:A:ARG:N	1:591:A:ARG:CA	1:591:A:ARG:C	1:592:A:MET:N	6	1.79
(1,78)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	1:522:A:VAL:N	19	1.79
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	10	1.78
(1,203)	1:611:A:ILE:N	1:611:A:ILE:CA	1:611:A:ILE:CB	1:611:A:ILE:CG1	20	1.77
(1,154)	1:515:A:ARG:N	1:515:A:ARG:CA	1:515:A:ARG:CB	1:515:A:ARG:CG	21	1.77
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	18	1.77
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	2	1.77
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	20	1.77
(1,45)	1:566:A:THR:C	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	5	1.77
(1,191)	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:CB	1:584:A:ASN:CG	24	1.76
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	16	1.76
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	18	1.76
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	4	1.76
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	25	1.76
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	6	1.76
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	8	1.76
(1,45)	1:566:A:THR:C	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	6	1.76
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	7	1.75
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	24	1.75
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	8	1.75
(1,70)	1:591:A:ARG:C	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:C	15	1.75

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,67)	1:588:A:LEU:C	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	17	1.75
(1,2)	1:520:A:ARG:C	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	20	1.75
(1,163)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:CB	1:536:A:ASP:CG	22	1.74
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	18	1.74
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	24	1.74
(1,56)	1:577:A:GLN:C	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	7	1.74
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	16	1.74
(1,107)	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	1:553:A:MET:N	18	1.73
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	3	1.73
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	22	1.72
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	14	1.72
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	23	1.72
(1,115)	1:560:A:PHE:N	1:560:A:PHE:CA	1:560:A:PHE:C	1:561:A:LEU:N	17	1.72
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	24	1.72
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	23	1.71
(1,155)	1:516:A:LYS:N	1:516:A:LYS:CA	1:516:A:LYS:CB	1:516:A:LYS:CG	25	1.71
(1,149)	1:595:A:ARG:N	1:595:A:ARG:CA	1:595:A:ARG:C	1:596:A:TYR:N	24	1.71
(1,114)	1:559:A:ALA:N	1:559:A:ALA:CA	1:559:A:ALA:C	1:560:A:PHE:N	22	1.71
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	18	1.71
(1,79)	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	1:523:A:HIS:N	17	1.71
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	11	1.71
(1,191)	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:CB	1:584:A:ASN:CG	3	1.7
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	6	1.7
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	18	1.7
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	4	1.7
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	10	1.7
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	17	1.7
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	11	1.69
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	14	1.69
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	21	1.69
(1,108)	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1:554:A:LYS:N	25	1.68
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	16	1.68
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	6	1.68
(1,70)	1:591:A:ARG:C	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:C	19	1.68
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	4	1.68
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	9	1.67
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	5	1.67
(1,115)	1:560:A:PHE:N	1:560:A:PHE:CA	1:560:A:PHE:C	1:561:A:LEU:N	16	1.67
(1,82)	1:525:A:CYS:N	1:525:A:CYS:CA	1:525:A:CYS:C	1:526:A:ASN:N	1	1.67
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	21	1.66
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	9	1.66
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	1	1.66
(1,89)	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	1:533:A:THR:N	7	1.66
(1,82)	1:525:A:CYS:N	1:525:A:CYS:CA	1:525:A:CYS:C	1:526:A:ASN:N	15	1.66
(1,76)	1:598:A:GLU:C	1:599:A:LEU:N	1:599:A:LEU:CA	1:599:A:LEU:C	2	1.66
(1,61)	1:582:A:ILE:C	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	17	1.66
(1,26)	1:547:A:VAL:C	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	19	1.66
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	7	1.65
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	5	1.65
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	10	1.65
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	8	1.65

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	5	1.65
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	12	1.64
(1,190)	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:CB	1:583:A:ILE:CG1	12	1.64
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	24	1.64
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	13	1.64
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	18	1.64
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	25	1.64
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	19	1.64
(1,82)	1:525:A:CYS:N	1:525:A:CYS:CA	1:525:A:CYS:C	1:526:A:ASN:N	17	1.64
(1,67)	1:588:A:LEU:C	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	2	1.64
(1,61)	1:582:A:ILE:C	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	4	1.64
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	2	1.64
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	13	1.63
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	15	1.63
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	25	1.63
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	3	1.62
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	24	1.62
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	11	1.62
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	11	1.62
(1,3)	1:521:A:VAL:C	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	8	1.62
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	20	1.61
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	21	1.61
(1,159)	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:CB	1:524:A:ILE:CG1	12	1.61
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	20	1.61
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	6	1.61
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	6	1.61
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	6	1.61
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	21	1.61
(1,84)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:C	1:528:A:PRO:N	16	1.61
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	22	1.61
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	3	1.61
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	4	1.6
(1,5)	1:523:A:HIS:C	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:C	3	1.6
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	18	1.59
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	20	1.59
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	8	1.59
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	8	1.59
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	1	1.59
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	3	1.59
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	19	1.59
(1,77)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:C	1:521:A:VAL:N	25	1.59
(1,48)	1:569:A:ALA:C	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	18	1.59
(1,150)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:C	1:597:A:LYS:N	17	1.58
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	15	1.58
(1,48)	1:569:A:ALA:C	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	12	1.58
(1,46)	1:567:A:GLU:C	1:568:A:ALA:N	1:568:A:ALA:CA	1:568:A:ALA:C	13	1.58
(1,184)	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:CB	1:575:A:TYR:CG	10	1.57
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	18	1.57
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	11	1.57
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	18	1.57
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	16	1.57

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	10	1.57
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	10	1.57
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1	1.57
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	11	1.57
(1,201)	1:606:A:LYS:N	1:606:A:LYS:CA	1:606:A:LYS:CB	1:606:A:LYS:CG	17	1.56
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	21	1.56
(1,45)	1:566:A:THR:C	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	11	1.56
(1,2)	1:520:A:ARG:C	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	21	1.56
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	7	1.55
(1,85)	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	1:529:A:GLU:N	10	1.55
(1,79)	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	1:523:A:HIS:N	6	1.55
(1,61)	1:582:A:ILE:C	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	1	1.55
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	15	1.55
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	20	1.55
(1,149)	1:595:A:ARG:N	1:595:A:ARG:CA	1:595:A:ARG:C	1:596:A:TYR:N	25	1.54
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	9	1.54
(1,114)	1:559:A:ALA:N	1:559:A:ALA:CA	1:559:A:ALA:C	1:560:A:PHE:N	5	1.54
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	1	1.54
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	19	1.54
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	2	1.54
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	3	1.53
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	4	1.53
(1,154)	1:515:A:ARG:N	1:515:A:ARG:CA	1:515:A:ARG:CB	1:515:A:ARG:CG	22	1.53
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	3	1.53
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	7	1.53
(1,67)	1:588:A:LEU:C	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	22	1.53
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	9	1.53
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	17	1.53
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	14	1.52
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	24	1.52
(1,76)	1:598:A:GLU:C	1:599:A:LEU:N	1:599:A:LEU:CA	1:599:A:LEU:C	18	1.52
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	1	1.51
(1,122)	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	1:568:A:ALA:N	2	1.51
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	11	1.51
(1,192)	1:588:A:LEU:N	1:588:A:LEU:CA	1:588:A:LEU:CB	1:588:A:LEU:CG	8	1.5
(1,181)	1:565:A:TYR:N	1:565:A:TYR:CA	1:565:A:TYR:CB	1:565:A:TYR:CG	2	1.5
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	22	1.5
(1,155)	1:516:A:LYS:N	1:516:A:LYS:CA	1:516:A:LYS:CB	1:516:A:LYS:CG	2	1.5
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	19	1.5
(1,122)	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	1:568:A:ALA:N	6	1.5
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	22	1.5
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	17	1.5
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	3	1.5
(1,28)	1:549:A:ASN:C	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	15	1.5
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	22	1.49
(1,190)	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:CB	1:583:A:ILE:CG1	23	1.49
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	13	1.49
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	14	1.49
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	10	1.49
(1,91)	1:534:A:GLU:N	1:534:A:GLU:CA	1:534:A:GLU:C	1:535:A:ASN:N	16	1.49
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	25	1.49

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	23	1.49
(1,15)	1:533:A:THR:C	1:534:A:GLU:N	1:534:A:GLU:CA	1:534:A:GLU:C	16	1.49
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	13	1.48
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	15	1.48
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	14	1.48
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	8	1.48
(1,67)	1:588:A:LEU:C	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	14	1.48
(1,4)	1:522:A:VAL:C	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	5	1.48
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	3	1.47
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	21	1.47
(1,180)	1:563:A:MET:N	1:563:A:MET:CA	1:563:A:MET:CB	1:563:A:MET:CG	21	1.47
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	23	1.47
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	10	1.47
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	7	1.47
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	1	1.47
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	21	1.47
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	14	1.46
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	7	1.46
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	24	1.46
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	11	1.46
(1,86)	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	1:530:A:GLY:N	15	1.46
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	18	1.46
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	4	1.46
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	20	1.46
(1,171)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:CB	1:548:A:THR:OG1	11	1.45
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	13	1.45
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	14	1.45
(1,86)	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	1:530:A:GLY:N	10	1.45
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	22	1.45
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	1	1.44
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	10	1.44
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	4	1.44
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	23	1.44
(1,45)	1:566:A:THR:C	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	18	1.44
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	17	1.43
(1,190)	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:CB	1:583:A:ILE:CG1	20	1.43
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	7	1.43
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	16	1.43
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	11	1.43
(1,28)	1:549:A:ASN:C	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	22	1.43
(1,27)	1:548:A:THR:C	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	21	1.43
(1,159)	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:CB	1:524:A:ILE:CG1	15	1.42
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	14	1.42
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	8	1.42
(1,113)	1:558:A:GLN:N	1:558:A:GLN:CA	1:558:A:GLN:C	1:559:A:ALA:N	3	1.42
(1,107)	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	1:553:A:MET:N	19	1.42
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	5	1.42
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	12	1.42
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	6	1.42
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	6	1.42
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	14	1.42

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	15	1.41
(1,131)	1:576:A:TYR:N	1:576:A:TYR:CA	1:576:A:TYR:C	1:577:A:GLN:N	5	1.41
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	7	1.41
(1,64)	1:585:A:GLY:C	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	22	1.41
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	20	1.41
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	20	1.41
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	4	1.4
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	5	1.4
(1,90)	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	1:534:A:GLU:N	7	1.4
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	3	1.4
(1,27)	1:548:A:THR:C	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	2	1.4
(1,27)	1:548:A:THR:C	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	3	1.4
(1,113)	1:558:A:GLN:N	1:558:A:GLN:CA	1:558:A:GLN:C	1:559:A:ALA:N	21	1.39
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	15	1.39
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	9	1.39
(1,122)	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	1:568:A:ALA:N	23	1.38
(1,88)	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	1:532:A:CYS:N	3	1.38
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	2	1.37
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	8	1.37
(1,180)	1:563:A:MET:N	1:563:A:MET:CA	1:563:A:MET:CB	1:563:A:MET:CG	20	1.37
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	20	1.37
(1,128)	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	1:574:A:GLN:N	1	1.37
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	15	1.37
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	19	1.37
(1,87)	1:530:A:GLY:N	1:530:A:GLY:CA	1:530:A:GLY:C	1:531:A:SER:N	1	1.37
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	5	1.37
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	13	1.37
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	24	1.36
(1,196)	1:596:A:TYR:N	1:596:A:TYR:CA	1:596:A:TYR:CB	1:596:A:TYR:CG	9	1.36
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	8	1.36
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	17	1.36
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	13	1.36
(1,114)	1:559:A:ALA:N	1:559:A:ALA:CA	1:559:A:ALA:C	1:560:A:PHE:N	16	1.36
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	18	1.36
(1,79)	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	1:523:A:HIS:N	4	1.36
(1,61)	1:582:A:ILE:C	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	21	1.36
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	22	1.35
(1,114)	1:559:A:ALA:N	1:559:A:ALA:CA	1:559:A:ALA:C	1:560:A:PHE:N	10	1.35
(1,77)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:C	1:521:A:VAL:N	3	1.35
(1,28)	1:549:A:ASN:C	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	3	1.35
(1,222)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:CB	1:589:A:LEU:CG	24	1.34
(1,204)	1:612:A:ILE:N	1:612:A:ILE:CA	1:612:A:ILE:CB	1:612:A:ILE:CG1	24	1.34
(1,166)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:CB	1:539:A:ASN:CG	24	1.34
(1,157)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:CB	1:521:A:VAL:CG1	23	1.34
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	20	1.34
(1,119)	1:564:A:ALA:N	1:564:A:ALA:CA	1:564:A:ALA:C	1:565:A:TYR:N	12	1.34
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	12	1.34
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	13	1.34
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	7	1.34
(1,14)	1:532:A:CYS:C	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	5	1.34
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	2	1.33

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	1	1.33
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	12	1.33
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	11	1.33
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	24	1.33
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	21	1.33
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	7	1.32
(1,172)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:CB	1:550:A:TYR:CG	6	1.32
(1,136)	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	1:582:A:ILE:N	12	1.32
(1,48)	1:569:A:ALA:C	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	21	1.32
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	7	1.32
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	20	1.32
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	20	1.32
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	3	1.31
(1,157)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:CB	1:521:A:VAL:CG1	2	1.31
(1,114)	1:559:A:ALA:N	1:559:A:ALA:CA	1:559:A:ALA:C	1:560:A:PHE:N	20	1.31
(1,86)	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	1:530:A:GLY:N	7	1.31
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	2	1.31
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	12	1.3
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	16	1.3
(1,198)	1:600:A:GLN:N	1:600:A:GLN:CA	1:600:A:GLN:CB	1:600:A:GLN:CG	14	1.3
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	10	1.3
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	14	1.3
(1,64)	1:585:A:GLY:C	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	13	1.3
(1,59)	1:580:A:PRO:C	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	16	1.3
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	19	1.3
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	13	1.3
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	12	1.3
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	23	1.29
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	25	1.29
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	2	1.29
(1,87)	1:530:A:GLY:N	1:530:A:GLY:CA	1:530:A:GLY:C	1:531:A:SER:N	17	1.29
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	22	1.29
(1,194)	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:CB	1:592:A:MET:CG	23	1.28
(1,159)	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:CB	1:524:A:ILE:CG1	6	1.28
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	20	1.28
(1,87)	1:530:A:GLY:N	1:530:A:GLY:CA	1:530:A:GLY:C	1:531:A:SER:N	20	1.28
(1,67)	1:588:A:LEU:C	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	11	1.28
(1,51)	1:572:A:MET:C	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	14	1.28
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	17	1.28
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	25	1.28
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	21	1.27
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	22	1.27
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	9	1.27
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	22	1.27
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	10	1.27
(1,70)	1:591:A:ARG:C	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:C	21	1.27
(1,28)	1:549:A:ASN:C	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	8	1.27
(1,203)	1:611:A:ILE:N	1:611:A:ILE:CA	1:611:A:ILE:CB	1:611:A:ILE:CG1	5	1.26
(1,158)	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:CB	1:522:A:VAL:CG1	5	1.26
(1,152)	1:598:A:GLU:N	1:598:A:GLU:CA	1:598:A:GLU:C	1:599:A:LEU:N	21	1.26
(1,113)	1:558:A:GLN:N	1:558:A:GLN:CA	1:558:A:GLN:C	1:559:A:ALA:N	13	1.26

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,113)	1:558:A:GLN:N	1:558:A:GLN:CA	1:558:A:GLN:C	1:559:A:ALA:N	14	1.26
(1,74)	1:596:A:TYR:C	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	19	1.26
(1,51)	1:572:A:MET:C	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	23	1.26
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	15	1.25
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	18	1.25
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	12	1.25
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	22	1.25
(1,133)	1:578:A:GLU:N	1:578:A:GLU:CA	1:578:A:GLU:C	1:579:A:LYS:N	7	1.25
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	16	1.25
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	23	1.25
(1,111)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:C	1:557:A:ASN:N	4	1.25
(1,80)	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	1:524:A:ILE:N	4	1.25
(1,46)	1:567:A:GLU:C	1:568:A:ALA:N	1:568:A:ALA:CA	1:568:A:ALA:C	2	1.25
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	8	1.25
(1,153)	1:514:A:GLN:N	1:514:A:GLN:CA	1:514:A:GLN:CB	1:514:A:GLN:CG	15	1.24
(1,130)	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	1:576:A:TYR:N	22	1.24
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	8	1.24
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	15	1.24
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	21	1.24
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	17	1.23
(1,170)	1:547:A:VAL:N	1:547:A:VAL:CA	1:547:A:VAL:CB	1:547:A:VAL:CG1	25	1.23
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	6	1.23
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	24	1.23
(1,61)	1:582:A:ILE:C	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	24	1.23
(1,14)	1:532:A:CYS:C	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	6	1.23
(1,4)	1:522:A:VAL:C	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	17	1.23
(1,201)	1:606:A:LYS:N	1:606:A:LYS:CA	1:606:A:LYS:CB	1:606:A:LYS:CG	5	1.22
(1,146)	1:591:A:ARG:N	1:591:A:ARG:CA	1:591:A:ARG:C	1:592:A:MET:N	19	1.22
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	5	1.22
(1,106)	1:551:A:ILE:N	1:551:A:ILE:CA	1:551:A:ILE:C	1:552:A:LEU:N	9	1.22
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	20	1.22
(1,51)	1:572:A:MET:C	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	10	1.22
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	13	1.22
(1,181)	1:565:A:TYR:N	1:565:A:TYR:CA	1:565:A:TYR:CB	1:565:A:TYR:CG	7	1.21
(1,136)	1:581:A:ALA:N	1:581:A:ALA:CA	1:581:A:ALA:C	1:582:A:ILE:N	15	1.21
(1,118)	1:563:A:MET:N	1:563:A:MET:CA	1:563:A:MET:C	1:564:A:ALA:N	16	1.21
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	22	1.21
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	7	1.21
(1,90)	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	1:534:A:GLU:N	2	1.21
(1,86)	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	1:530:A:GLY:N	6	1.21
(1,77)	1:520:A:ARG:N	1:520:A:ARG:CA	1:520:A:ARG:C	1:521:A:VAL:N	1	1.21
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	19	1.21
(1,4)	1:522:A:VAL:C	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	6	1.21
(1,215)	1:527:A:LEU:N	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	6	1.2
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	12	1.2
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	14	1.2
(1,148)	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	1:594:A:THR:N	20	1.2
(1,47)	1:568:A:ALA:C	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	2	1.2
(1,14)	1:532:A:CYS:C	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	18	1.2
(1,5)	1:523:A:HIS:C	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:C	5	1.2
(1,2)	1:520:A:ARG:C	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	25	1.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	4	1.19
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	19	1.19
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	15	1.19
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	21	1.19
(1,131)	1:576:A:TYR:N	1:576:A:TYR:CA	1:576:A:TYR:C	1:577:A:GLN:N	16	1.19
(1,113)	1:558:A:GLN:N	1:558:A:GLN:CA	1:558:A:GLN:C	1:559:A:ALA:N	9	1.19
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	21	1.19
(1,51)	1:572:A:MET:C	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	12	1.19
(1,10)	1:528:A:PRO:C	1:529:A:GLU:N	1:529:A:GLU:CA	1:529:A:GLU:C	8	1.19
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	2	1.18
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	2	1.18
(1,115)	1:560:A:PHE:N	1:560:A:PHE:CA	1:560:A:PHE:C	1:561:A:LEU:N	18	1.18
(1,113)	1:558:A:GLN:N	1:558:A:GLN:CA	1:558:A:GLN:C	1:559:A:ALA:N	7	1.18
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	19	1.18
(1,51)	1:572:A:MET:C	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	9	1.18
(1,181)	1:565:A:TYR:N	1:565:A:TYR:CA	1:565:A:TYR:CB	1:565:A:TYR:CG	3	1.17
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	1	1.17
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	6	1.17
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	17	1.17
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	21	1.17
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	2	1.16
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	22	1.16
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	15	1.16
(1,53)	1:574:A:GLN:C	1:575:A:TYR:N	1:575:A:TYR:CA	1:575:A:TYR:C	16	1.16
(1,51)	1:572:A:MET:C	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	18	1.16
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	25	1.16
(1,7)	1:525:A:CYS:C	1:526:A:ASN:N	1:526:A:ASN:CA	1:526:A:ASN:C	16	1.16
(1,4)	1:522:A:VAL:C	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	9	1.16
(1,161)	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:CB	1:532:A:CYS:SG	2	1.15
(1,154)	1:515:A:ARG:N	1:515:A:ARG:CA	1:515:A:ARG:CB	1:515:A:ARG:CG	2	1.15
(1,145)	1:590:A:ILE:N	1:590:A:ILE:CA	1:590:A:ILE:C	1:591:A:ARG:N	20	1.15
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	22	1.15
(1,203)	1:611:A:ILE:N	1:611:A:ILE:CA	1:611:A:ILE:CB	1:611:A:ILE:CG1	17	1.14
(1,152)	1:598:A:GLU:N	1:598:A:GLU:CA	1:598:A:GLU:C	1:599:A:LEU:N	6	1.14
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	17	1.14
(1,123)	1:568:A:ALA:N	1:568:A:ALA:CA	1:568:A:ALA:C	1:569:A:ALA:N	23	1.14
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	8	1.14
(1,90)	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	1:534:A:GLU:N	17	1.14
(1,45)	1:566:A:THR:C	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	10	1.14
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	24	1.14
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	23	1.14
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	25	1.13
(1,180)	1:563:A:MET:N	1:563:A:MET:CA	1:563:A:MET:CB	1:563:A:MET:CG	24	1.13
(1,151)	1:597:A:LYS:N	1:597:A:LYS:CA	1:597:A:LYS:C	1:598:A:GLU:N	5	1.13
(1,144)	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	1:590:A:ILE:N	3	1.13
(1,72)	1:593:A:SER:C	1:594:A:THR:N	1:594:A:THR:CA	1:594:A:THR:C	20	1.13
(1,51)	1:572:A:MET:C	1:573:A:VAL:N	1:573:A:VAL:CA	1:573:A:VAL:C	22	1.13
(1,21)	1:539:A:ASN:C	1:540:A:LEU:N	1:540:A:LEU:CA	1:540:A:LEU:C	8	1.13
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	19	1.13
(1,191)	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:CB	1:584:A:ASN:CG	20	1.12
(1,190)	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:CB	1:583:A:ILE:CG1	16	1.12

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,157)	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:CB	1:521:A:VAL:CG1	14	1.12
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	17	1.12
(1,87)	1:530:A:GLY:N	1:530:A:GLY:CA	1:530:A:GLY:C	1:531:A:SER:N	21	1.12
(1,135)	1:580:A:PRO:N	1:580:A:PRO:CA	1:580:A:PRO:C	1:581:A:ALA:N	7	1.11
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	13	1.11
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	11	1.11
(1,46)	1:567:A:GLU:C	1:568:A:ALA:N	1:568:A:ALA:CA	1:568:A:ALA:C	17	1.11
(1,45)	1:566:A:THR:C	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	14	1.11
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	24	1.11
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	10	1.11
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	16	1.1
(1,198)	1:600:A:GLN:N	1:600:A:GLN:CA	1:600:A:GLN:CB	1:600:A:GLN:CG	3	1.1
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	19	1.1
(1,138)	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	1:584:A:ASN:N	22	1.1
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	13	1.1
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	24	1.1
(1,90)	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	1:534:A:GLU:N	4	1.1
(1,79)	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	1:523:A:HIS:N	2	1.1
(1,64)	1:585:A:GLY:C	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	25	1.1
(1,62)	1:583:A:ILE:C	1:584:A:ASN:N	1:584:A:ASN:CA	1:584:A:ASN:C	14	1.1
(1,48)	1:569:A:ALA:C	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	10	1.1
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	12	1.1
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	24	1.09
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	25	1.09
(1,47)	1:568:A:ALA:C	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	14	1.09
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	14	1.09
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	6	1.09
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	15	1.09
(1,14)	1:532:A:CYS:C	1:533:A:THR:N	1:533:A:THR:CA	1:533:A:THR:C	1	1.09
(1,9)	1:527:A:LEU:C	1:528:A:PRO:N	1:528:A:PRO:CA	1:528:A:PRO:C	15	1.09
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	25	1.08
(1,183)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:CB	1:574:A:GLN:CG	3	1.08
(1,147)	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:C	1:593:A:SER:N	16	1.08
(1,141)	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	1:587:A:LYS:N	2	1.08
(1,117)	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	1:563:A:MET:N	15	1.08
(1,80)	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	1:524:A:ILE:N	24	1.08
(1,71)	1:592:A:MET:C	1:593:A:SER:N	1:593:A:SER:CA	1:593:A:SER:C	2	1.08
(1,61)	1:582:A:ILE:C	1:583:A:ILE:N	1:583:A:ILE:CA	1:583:A:ILE:C	13	1.08
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	9	1.08
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	13	1.08
(1,18)	1:536:A:ASP:C	1:537:A:VAL:N	1:537:A:VAL:CA	1:537:A:VAL:C	14	1.08
(1,149)	1:595:A:ARG:N	1:595:A:ARG:CA	1:595:A:ARG:C	1:596:A:TYR:N	9	1.07
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	19	1.07
(1,122)	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	1:568:A:ALA:N	3	1.07
(1,103)	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	1:549:A:ASN:N	7	1.07
(1,102)	1:547:A:VAL:N	1:547:A:VAL:CA	1:547:A:VAL:C	1:548:A:THR:N	25	1.07
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	14	1.07
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	23	1.07
(1,27)	1:548:A:THR:C	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1	1.07
(1,2)	1:520:A:ARG:C	1:521:A:VAL:N	1:521:A:VAL:CA	1:521:A:VAL:C	3	1.07
(1,70)	1:591:A:ARG:C	1:592:A:MET:N	1:592:A:MET:CA	1:592:A:MET:C	7	1.06

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,40)	1:561:A:LEU:C	1:562:A:GLU:N	1:562:A:GLU:CA	1:562:A:GLU:C	5	1.06
(1,154)	1:515:A:ARG:N	1:515:A:ARG:CA	1:515:A:ARG:CB	1:515:A:ARG:CG	24	1.05
(1,149)	1:595:A:ARG:N	1:595:A:ARG:CA	1:595:A:ARG:C	1:596:A:TYR:N	1	1.05
(1,112)	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	1:558:A:GLN:N	11	1.05
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	6	1.05
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	17	1.05
(1,102)	1:547:A:VAL:N	1:547:A:VAL:CA	1:547:A:VAL:C	1:548:A:THR:N	24	1.05
(1,96)	1:539:A:ASN:N	1:539:A:ASN:CA	1:539:A:ASN:C	1:540:A:LEU:N	12	1.05
(1,67)	1:588:A:LEU:C	1:589:A:LEU:N	1:589:A:LEU:CA	1:589:A:LEU:C	13	1.05
(1,30)	1:551:A:ILE:C	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	14	1.05
(1,18)	1:536:A:ASP:C	1:537:A:VAL:N	1:537:A:VAL:CA	1:537:A:VAL:C	22	1.05
(1,12)	1:530:A:GLY:C	1:531:A:SER:N	1:531:A:SER:CA	1:531:A:SER:C	5	1.05
(1,218)	1:552:A:LEU:CA	1:552:A:LEU:CB	1:552:A:LEU:CG	1:552:A:LEU:CD1	9	1.04
(1,186)	1:577:A:GLN:N	1:577:A:GLN:CA	1:577:A:GLN:CB	1:577:A:GLN:CG	20	1.04
(1,176)	1:556:A:THR:N	1:556:A:THR:CA	1:556:A:THR:CB	1:556:A:THR:OG1	17	1.04
(1,149)	1:595:A:ARG:N	1:595:A:ARG:CA	1:595:A:ARG:C	1:596:A:TYR:N	2	1.04
(1,142)	1:587:A:LYS:N	1:587:A:LYS:CA	1:587:A:LYS:C	1:588:A:LEU:N	13	1.04
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	9	1.04
(1,109)	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	1:555:A:SER:N	15	1.04
(1,104)	1:549:A:ASN:N	1:549:A:ASN:CA	1:549:A:ASN:C	1:550:A:TYR:N	13	1.04
(1,87)	1:530:A:GLY:N	1:530:A:GLY:CA	1:530:A:GLY:C	1:531:A:SER:N	7	1.04
(1,64)	1:585:A:GLY:C	1:586:A:GLU:N	1:586:A:GLU:CA	1:586:A:GLU:C	15	1.04
(1,48)	1:569:A:ALA:C	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	14	1.04
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	18	1.04
(1,32)	1:553:A:MET:C	1:554:A:LYS:N	1:554:A:LYS:CA	1:554:A:LYS:C	25	1.04
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	1	1.04
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	21	1.04
(1,26)	1:547:A:VAL:C	1:548:A:THR:N	1:548:A:THR:CA	1:548:A:THR:C	9	1.04
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	11	1.04
(1,5)	1:523:A:HIS:C	1:524:A:ILE:N	1:524:A:ILE:CA	1:524:A:ILE:C	11	1.04
(1,214)	1:527:A:LEU:CA	1:527:A:LEU:CB	1:527:A:LEU:CG	1:527:A:LEU:CD1	6	1.03
(1,165)	1:538:A:ILE:N	1:538:A:ILE:CA	1:538:A:ILE:CB	1:538:A:ILE:CG1	1	1.03
(1,107)	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	1:553:A:MET:N	15	1.03
(1,45)	1:566:A:THR:C	1:567:A:GLU:N	1:567:A:GLU:CA	1:567:A:GLU:C	9	1.03
(1,23)	1:541:A:GLY:C	1:542:A:LEU:N	1:542:A:LEU:CA	1:542:A:LEU:C	25	1.03
(1,18)	1:536:A:ASP:C	1:537:A:VAL:N	1:537:A:VAL:CA	1:537:A:VAL:C	20	1.03
(1,175)	1:555:A:SER:N	1:555:A:SER:CA	1:555:A:SER:CB	1:555:A:SER:OG	24	1.02
(1,131)	1:576:A:TYR:N	1:576:A:TYR:CA	1:576:A:TYR:C	1:577:A:GLN:N	14	1.02
(1,107)	1:552:A:LEU:N	1:552:A:LEU:CA	1:552:A:LEU:C	1:553:A:MET:N	6	1.02
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	19	1.02
(1,93)	1:536:A:ASP:N	1:536:A:ASP:CA	1:536:A:ASP:C	1:537:A:VAL:N	12	1.02
(1,80)	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	1:524:A:ILE:N	13	1.02
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	23	1.02
(1,179)	1:561:A:LEU:N	1:561:A:LEU:CA	1:561:A:LEU:CB	1:561:A:LEU:CG	9	1.01
(1,143)	1:588:A:LEU:N	1:588:A:LEU:CA	1:588:A:LEU:C	1:589:A:LEU:N	5	1.01
(1,129)	1:574:A:GLN:N	1:574:A:GLN:CA	1:574:A:GLN:C	1:575:A:TYR:N	11	1.01
(1,125)	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	1:571:A:ALA:N	3	1.01
(1,124)	1:569:A:ALA:N	1:569:A:ALA:CA	1:569:A:ALA:C	1:570:A:GLN:N	16	1.01
(1,105)	1:550:A:TYR:N	1:550:A:TYR:CA	1:550:A:TYR:C	1:551:A:ILE:N	5	1.01
(1,79)	1:522:A:VAL:N	1:522:A:VAL:CA	1:522:A:VAL:C	1:523:A:HIS:N	18	1.01
(1,35)	1:556:A:THR:C	1:557:A:ASN:N	1:557:A:ASN:CA	1:557:A:ASN:C	7	1.01

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,31)	1:552:A:LEU:C	1:553:A:MET:N	1:553:A:MET:CA	1:553:A:MET:C	9	1.01
(1,13)	1:531:A:SER:C	1:532:A:CYS:N	1:532:A:CYS:CA	1:532:A:CYS:C	6	1.01
(1,4)	1:522:A:VAL:C	1:523:A:HIS:N	1:523:A:HIS:CA	1:523:A:HIS:C	16	1.01
(1,92)	1:535:A:ASN:N	1:535:A:ASN:CA	1:535:A:ASN:C	1:536:A:ASP:N	4	1.0
(1,48)	1:569:A:ALA:C	1:570:A:GLN:N	1:570:A:GLN:CA	1:570:A:GLN:C	11	1.0