



Full wwPDB NMR Structure Validation Report ⓘ

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PDB ID : 2LDI / pdb_00002ldi
BMRB ID : 17668
Title : NMR solution structure of ZiaAN sub mutant
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Deposited on : 2011-05-26

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A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

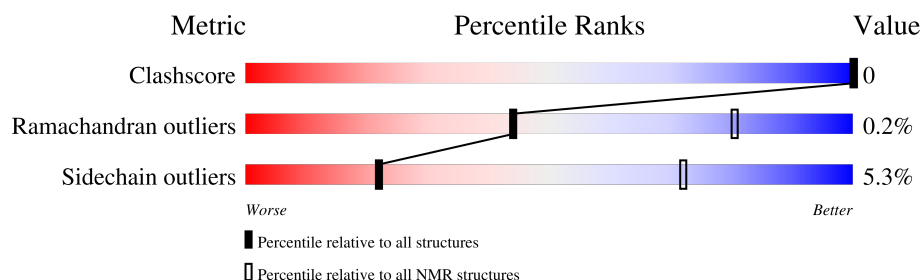
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 83%.

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



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

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

Mol	Chain	Length	Quality of chain
1	A	106	

2 Ensemble composition and analysis

This entry contains 30 models. Model 26 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *fewest violations*.

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:7-A:17, A:22-A:76 (66)	0.78	26

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 7 clusters and 5 single-model clusters were found.

Cluster number	Models
1	1, 4, 5, 15, 19, 25, 26, 28, 30
2	7, 10, 18, 22, 23, 27
3	13, 16
4	2, 29
5	3, 24
6	9, 21
7	14, 20
Single-model clusters	6; 8; 11; 12; 17

3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 996 atoms, of which 469 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Zinc-transporting ATPase.

Mol	Chain	Residues	Atoms						Trace
1	A	71	Total	C	H	N	O	S	0
			996	326	469	94	103	4	

There are 8 discrepancies between the modelled and reference sequences:

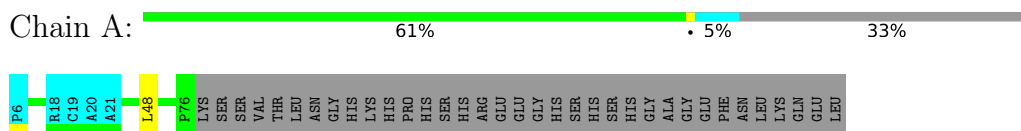
Chain	Residue	Modelled	Actual	Comment	Reference
A	18	ARG	ASP	conflict	UNP Q59998
A	20	ALA	THR	conflict	UNP Q59998
A	21	ALA	SER	conflict	UNP Q59998
A	23	ALA	LYS	conflict	UNP Q59998
A	24	SER	LEU	conflict	UNP Q59998
A	25	SER	LYS	conflict	UNP Q59998
A	28	ARG	GLY	conflict	UNP Q59998
A	29	ALA	SER	conflict	UNP Q59998

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: Zinc-transporting ATPase

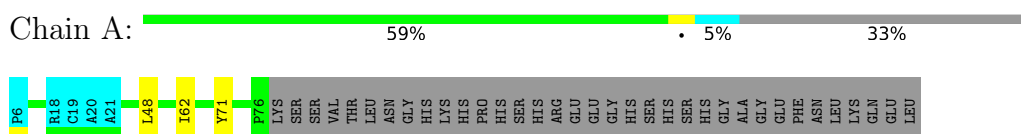


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

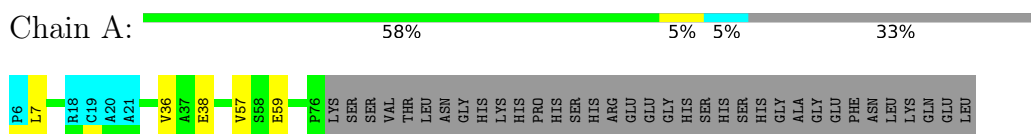
4.2.1 Score per residue for model 1

- Molecule 1: Zinc-transporting ATPase



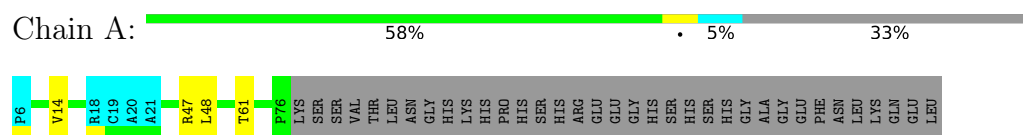
4.2.2 Score per residue for model 2

- Molecule 1: Zinc-transporting ATPase



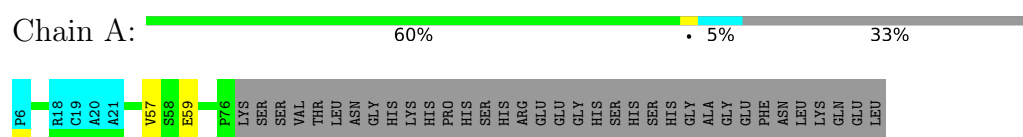
4.2.3 Score per residue for model 3

- Molecule 1: Zinc-transporting ATPase



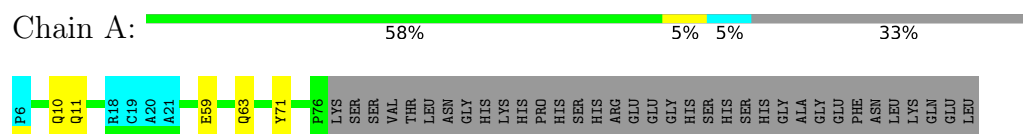
4.2.4 Score per residue for model 4

- Molecule 1: Zinc-transporting ATPase



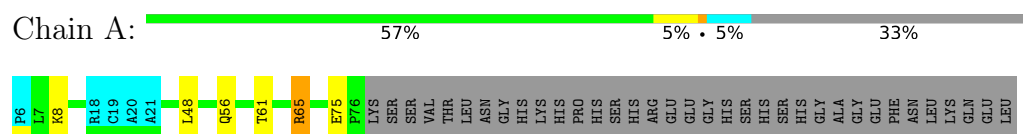
4.2.5 Score per residue for model 5

- Molecule 1: Zinc-transporting ATPase



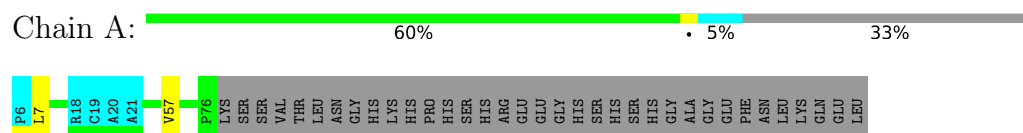
4.2.6 Score per residue for model 6

- Molecule 1: Zinc-transporting ATPase



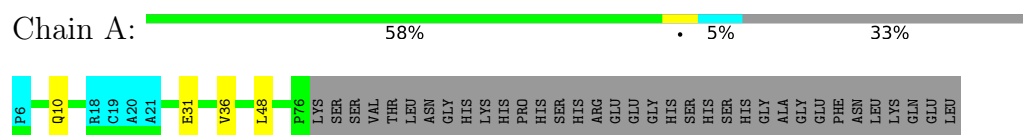
4.2.7 Score per residue for model 7

- Molecule 1: Zinc-transporting ATPase



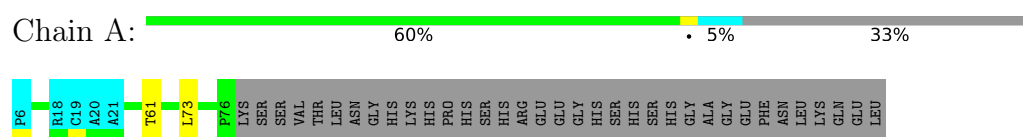
4.2.8 Score per residue for model 8

- Molecule 1: Zinc-transporting ATPase



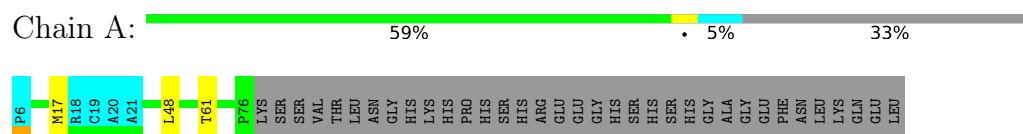
4.2.9 Score per residue for model 9

- Molecule 1: Zinc-transporting ATPase



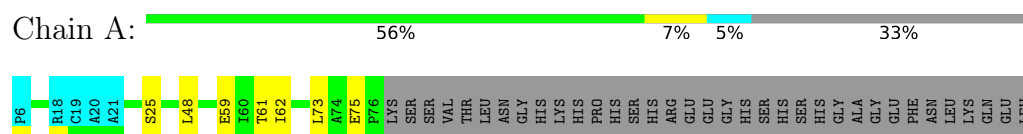
4.2.10 Score per residue for model 10

- Molecule 1: Zinc-transporting ATPase



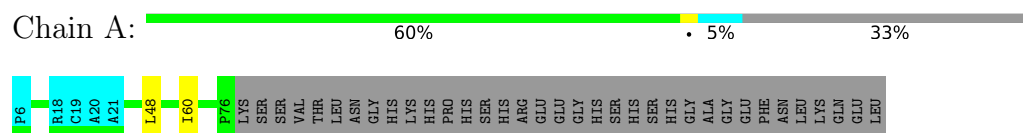
4.2.11 Score per residue for model 11

- Molecule 1: Zinc-transporting ATPase



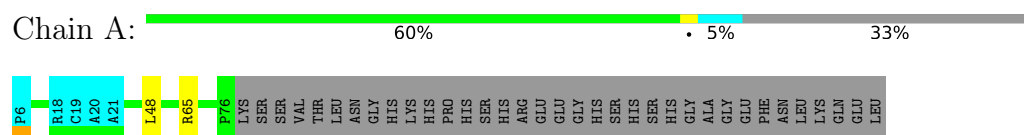
4.2.12 Score per residue for model 12

- Molecule 1: Zinc-transporting ATPase



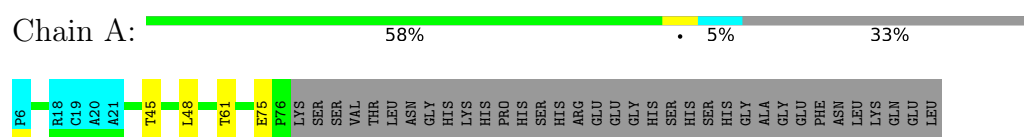
4.2.13 Score per residue for model 13

- Molecule 1: Zinc-transporting ATPase



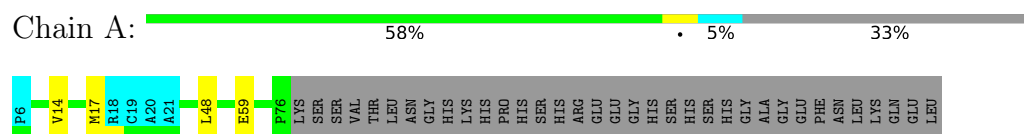
4.2.14 Score per residue for model 14

- Molecule 1: Zinc-transporting ATPase



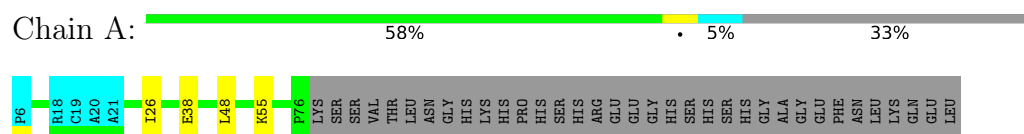
4.2.15 Score per residue for model 15

- Molecule 1: Zinc-transporting ATPase



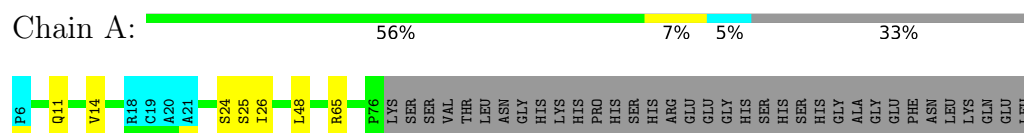
4.2.16 Score per residue for model 16

- Molecule 1: Zinc-transporting ATPase



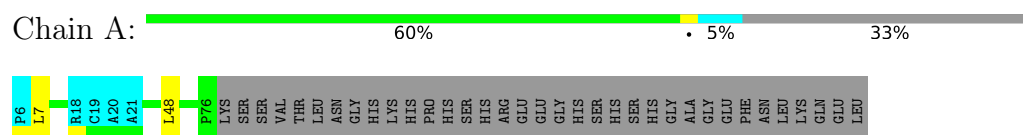
4.2.17 Score per residue for model 17

- Molecule 1: Zinc-transporting ATPase



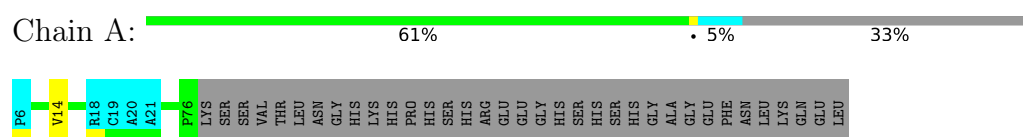
4.2.18 Score per residue for model 18

- Molecule 1: Zinc-transporting ATPase



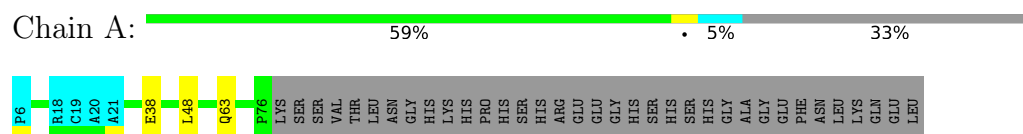
4.2.19 Score per residue for model 19

- Molecule 1: Zinc-transporting ATPase



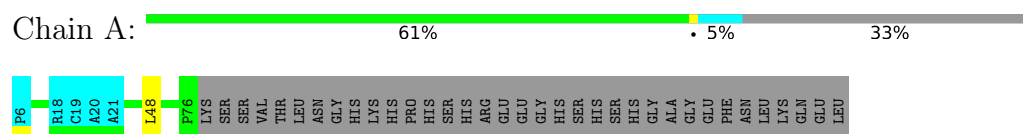
4.2.20 Score per residue for model 20

- Molecule 1: Zinc-transporting ATPase



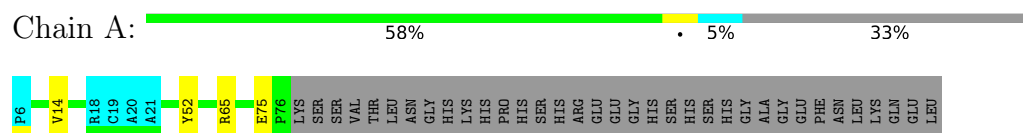
4.2.21 Score per residue for model 21

- Molecule 1: Zinc-transporting ATPase



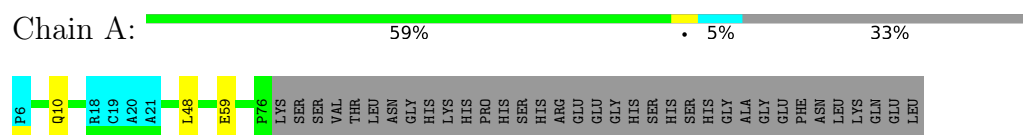
4.2.22 Score per residue for model 22

- Molecule 1: Zinc-transporting ATPase



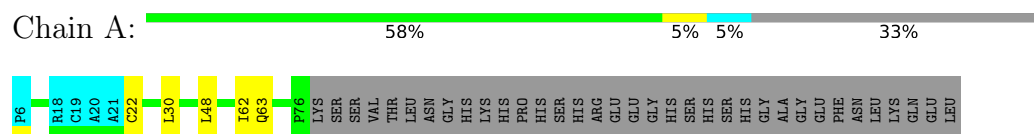
4.2.23 Score per residue for model 23

- Molecule 1: Zinc-transporting ATPase



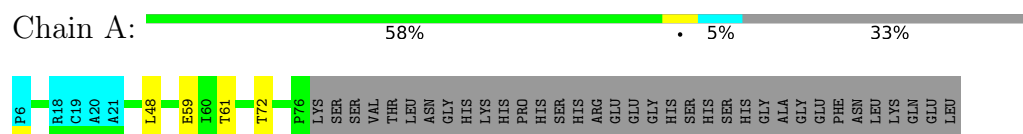
4.2.24 Score per residue for model 24

- Molecule 1: Zinc-transporting ATPase



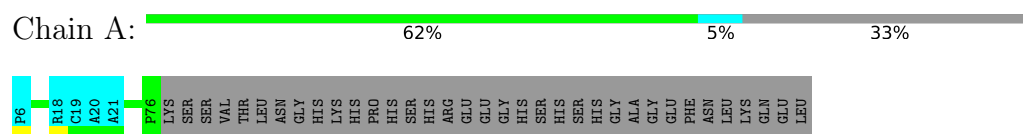
4.2.25 Score per residue for model 25

- Molecule 1: Zinc-transporting ATPase



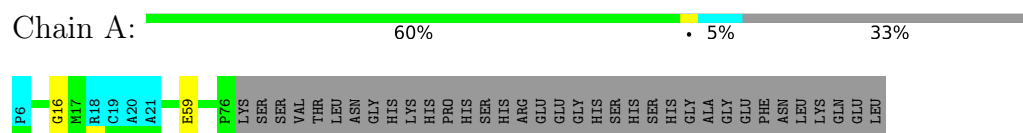
4.2.26 Score per residue for model 26 (medoid)

- Molecule 1: Zinc-transporting ATPase



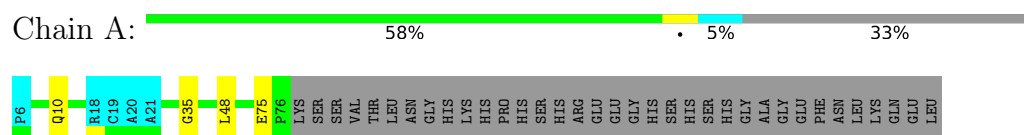
4.2.27 Score per residue for model 27

- Molecule 1: Zinc-transporting ATPase



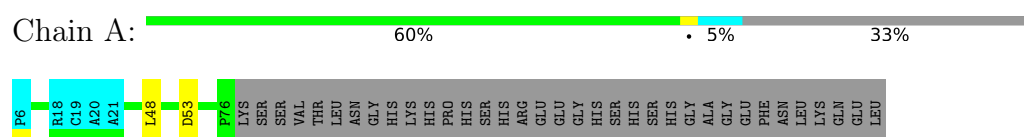
4.2.28 Score per residue for model 28

- Molecule 1: Zinc-transporting ATPase



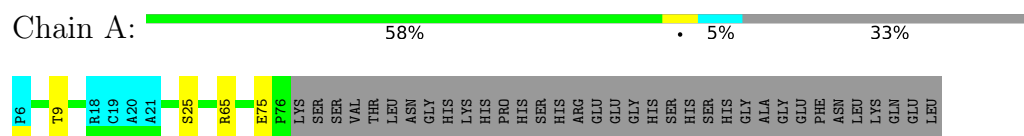
4.2.29 Score per residue for model 29

- Molecule 1: Zinc-transporting ATPase



4.2.30 Score per residue for model 30

- Molecule 1: Zinc-transporting ATPase



5 Refinement protocol and experimental data overview

The models were refined using the following method: *restrained energy minimization*.

Of the 300 calculated structures, 30 were deposited, based on the following criterion: *target function*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
Amber	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	1014
Number of shifts mapped to atoms	689
Number of unparsed shifts	0
Number of shifts with mapping errors	325
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	83%

6 Model quality i

6.1 Standard geometry i

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#Z>5	RMSZ	#Z>5
1	A	0.80±0.02	0±0/496 (0.0± 0.0%)	1.34±0.04	0±1/670 (0.0± 0.1%)
All	All	0.80	0/14880 (0.0%)	1.34	9/20100 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.2±0.5
All	All	0	7

There are no bond-length outliers.

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	62	ILE	CB-CA-C	6.41	116.93	110.65	11	3
1	A	10	GLN	OE1-CD-NE2	-5.22	117.38	122.60	23	1
1	A	73	LEU	N-CA-C	5.21	116.99	109.07	9	1
1	A	7	LEU	N-CA-C	5.12	116.90	110.24	2	1
1	A	62	ILE	CA-C-N	5.10	127.07	120.44	11	1
1	A	62	ILE	C-N-CA	5.10	127.07	120.44	11	1
1	A	11	GLN	OE1-CD-NE2	-5.03	117.58	122.60	17	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	71	TYR	Sidechain	2

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Mol	Chain	Res	Type	Group	Models (Total)
1	A	65	ARG	Sidechain	2
1	A	47	ARG	Sidechain	1
1	A	75	GLU	Peptide	1
1	A	35	GLY	Peptide	1

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
All	All	14790	13200	15420	-

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 -.

There are no clashes.

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	65/106 (61%)	59±2 (90±3%)	6±2 (10±3%)	0±0 (0±1%)	44 80
All	All	1950/3180 (61%)	1759 (90%)	187 (10%)	4 (0%)	44 80

All 2 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	57	VAL	3
1	A	16	GLY	1

6.3.2 Protein sidechains ⓘ

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	53/86 (62%)	50±2 (95±3%)	3±2 (5±3%)	22 72
All	All	1590/2580 (62%)	1506 (95%)	84 (5%)	22 72

All 29 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	48	LEU	20
1	A	59	GLU	8
1	A	61	THR	7
1	A	14	VAL	5
1	A	75	GLU	5
1	A	65	ARG	4
1	A	38	GLU	3
1	A	10	GLN	3
1	A	63	GLN	3
1	A	25	SER	3
1	A	36	VAL	2
1	A	7	LEU	2
1	A	17	MET	2
1	A	26	ILE	2
1	A	11	GLN	1
1	A	8	LYS	1
1	A	56	GLN	1
1	A	31	GLU	1
1	A	73	LEU	1
1	A	60	ILE	1
1	A	45	THR	1
1	A	55	LYS	1
1	A	24	SER	1
1	A	52	TYR	1
1	A	22	CYS	1
1	A	30	LEU	1
1	A	72	THR	1
1	A	53	ASP	1
1	A	9	THR	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

The completeness of assignment taking into account all chemical shift lists is 83% for the well-defined parts and 81% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

7.1.1 Bookkeeping

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	1014
Number of shifts mapped to atoms	689
Number of unparsed shifts	0
Number of shifts with mapping errors	325
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

The following assigned chemical shifts were not mapped to the molecules present in the coordinate file.

- No matching atom found in the structure. All 325 occurrences are reported below.

List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	6	PRO	HB2	1.804	0.020	1
1	A	6	PRO	HD2	3.629	0.020	1
1	A	6	PRO	HG2	1.859	0.020	1
1	A	7	LEU	HB2	1.396	0.020	2
1	A	8	LYS	HB2	1.014	0.020	2
1	A	8	LYS	HD2	1.45	0.020	1
1	A	8	LYS	HE2	2.813	0.020	1
1	A	8	LYS	HG2	1.096	0.020	2
1	A	10	GLN	HB2	1.886	0.020	1
1	A	10	GLN	HG2	2.267	0.020	1
1	A	11	GLN	HB2	1.858	0.020	2
1	A	11	GLN	HG2	2.241	0.020	1
1	A	12	MET	HB2	1.996	0.020	2
1	A	12	MET	HG2	2.486	0.020	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	13	GLN	HB2	1.913	0.020	2
1	A	17	MET	HB2	2.16	0.020	2
1	A	17	MET	HG2	2.049	0.020	2
1	A	18	ARG	HB2	1.831	0.020	2
1	A	18	ARG	HD2	3.193	0.020	2
1	A	18	ARG	HG2	1.696	0.020	2
1	A	19	CYS	HB2	3.003	0.020	2
1	A	22	CYS	HB2	3.112	0.020	2
1	A	24	SER	HB2	3.847	0.020	1
1	A	26	ILE	HG12	1.586	0.020	2
1	A	28	ARG	HB2	1.831	0.020	2
1	A	28	ARG	HD2	3.112	0.020	1
1	A	28	ARG	HG2	1.723	0.020	2
1	A	30	LEU	HB2	1.668	0.020	2
1	A	31	GLU	HB2	1.94	0.020	1
1	A	31	GLU	HG2	2.484	0.020	1
1	A	32	ARG	HB2	1.913	0.020	1
1	A	32	ARG	HD2	3.085	0.020	1
1	A	32	ARG	HG2	1.75	0.020	1
1	A	33	LEU	HB2	1.722	0.020	1
1	A	34	LYS	HB2	1.694	0.020	1
1	A	34	LYS	HD2	1.614	0.020	1
1	A	34	LYS	HE2	2.921	0.020	1
1	A	34	LYS	HG2	1.369	0.020	2
1	A	38	GLU	HB2	1.817	0.020	1
1	A	38	GLU	HG2	2.021	0.020	2
1	A	40	SER	HB2	3.522	0.020	1
1	A	47	ARG	HB2	1.641	0.020	2
1	A	47	ARG	HD2	3.003	0.020	1
1	A	47	ARG	HG2	1.368	0.020	1
1	A	48	LEU	HB2	1.504	0.020	2
1	A	52	TYR	HB2	2.621	0.020	2
1	A	53	ASP	HB2	2.921	0.020	2
1	A	54	PRO	HB2	2.212	0.020	1
1	A	54	PRO	HD2	4.065	0.020	2
1	A	55	LYS	HB2	1.886	0.020	1
1	A	55	LYS	HD2	1.614	0.020	1
1	A	55	LYS	HE2	2.895	0.020	1
1	A	55	LYS	HG2	1.423	0.020	2
1	A	56	GLN	HB2	2.022	0.020	2
1	A	56	GLN	HG2	2.186	0.020	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	58	SER	HB2	4.147	0.020	2
1	A	59	GLU	HB2	2.131	0.020	2
1	A	59	GLU	HG2	2.458	0.020	2
1	A	60	ILE	HG12	1.408	0.020	2
1	A	62	ILE	HG12	1.259	0.020	2
1	A	63	GLN	HB2	2.159	0.020	2
1	A	63	GLN	HG2	2.485	0.020	1
1	A	64	GLU	HB2	2.077	0.020	2
1	A	64	GLU	HG2	2.458	0.020	2
1	A	65	ARG	HB2	1.805	0.020	1
1	A	65	ARG	HD2	3.194	0.020	2
1	A	65	ARG	HG2	1.614	0.020	2
1	A	66	ILE	HG12	0.905	0.020	2
1	A	69	LEU	HB2	1.466	0.020	1
1	A	71	TYR	HB2	3.385	0.020	2
1	A	73	LEU	HB2	1.504	0.020	1
1	A	75	GLU	HB2	1.914	0.020	2
1	A	75	GLU	HG2	2.187	0.020	2
1	A	76	PRO	HB2	2.104	0.020	1
1	A	76	PRO	HD2	3.766	0.020	2
1	A	76	PRO	HG2	1.94	0.020	2
1	A	77	LYS	HA	4.158	0.020	1
1	A	77	LYS	HB2	1.695	0.020	2
1	A	77	LYS	HB3	1.614	0.020	2
1	A	77	LYS	HD2	1.532	0.020	1
1	A	77	LYS	HE2	2.867	0.020	1
1	A	77	LYS	HG2	1.314	0.020	1
1	A	77	LYS	C	176.93	0.3	1
1	A	77	LYS	CA	56.246	0.3	1
1	A	77	LYS	CB	30.616	0.3	1
1	A	77	LYS	CD	29.331	0.3	1
1	A	77	LYS	CE	42.144	0.3	1
1	A	77	LYS	CG	24.837	0.3	1
1	A	77	LYS	N	121.367	0.3	1
1	A	78	SER	H	8.285	0.020	1
1	A	78	SER	HB2	3.656	0.020	1
1	A	78	SER	C	174.857	0.3	1
1	A	78	SER	CA	58.258	0.3	1
1	A	78	SER	CB	63.76	0.3	1
1	A	78	SER	N	116.445	0.3	1
1	A	79	SER	H	8.313	0.020	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	79	SER	HB2	3.712	0.020	1
1	A	79	SER	C	174.515	0.3	1
1	A	79	SER	CA	58.257	0.3	1
1	A	79	SER	CB	63.76	0.3	1
1	A	79	SER	N	118.086	0.3	1
1	A	80	VAL	H	8.032	0.020	1
1	A	80	VAL	HA	4.093	0.020	1
1	A	80	VAL	HB	1.941	0.020	1
1	A	80	VAL	HG21	0.796	0.020	1
1	A	80	VAL	HG22	0.796	0.020	1
1	A	80	VAL	HG23	0.796	0.020	1
1	A	80	VAL	C	176.241	0.3	1
1	A	80	VAL	CA	62.251	0.3	1
1	A	80	VAL	CB	32.753	0.3	1
1	A	80	VAL	CG1	21.031	0.3	1
1	A	80	VAL	CG2	20.438	0.3	1
1	A	80	VAL	N	121.367	0.3	1
1	A	81	THR	H	8.172	0.020	1
1	A	81	THR	HA	4.229	0.020	1
1	A	81	THR	HB	4.038	0.020	1
1	A	81	THR	HG21	1.042	0.020	1
1	A	81	THR	HG22	1.042	0.020	1
1	A	81	THR	HG23	1.042	0.020	1
1	A	81	THR	C	176.589	0.3	1
1	A	81	THR	CA	61.725	0.3	1
1	A	81	THR	CB	69.776	0.3	1
1	A	81	THR	CG2	21.903	0.3	1
1	A	81	THR	N	118.633	0.3	1
1	A	82	LEU	H	8.257	0.020	1
1	A	82	LEU	HA	4.256	0.020	1
1	A	82	LEU	HB2	1.463	0.020	1
1	A	82	LEU	HD11	0.795	0.020	1
1	A	82	LEU	HD12	0.795	0.020	1
1	A	82	LEU	HD13	0.795	0.020	1
1	A	82	LEU	HD21	0.742	0.020	1
1	A	82	LEU	HD22	0.742	0.020	1
1	A	82	LEU	HD23	0.742	0.020	1
1	A	82	LEU	HG	1.475	0.020	1
1	A	82	LEU	C	176.241	0.3	1
1	A	82	LEU	CA	55.247	0.3	1
1	A	82	LEU	CB	42.701	0.3	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	82	LEU	CD1	24.823	0.3	1
1	A	82	LEU	CD2	23.592	0.3	1
1	A	82	LEU	CG	26.948	0.3	1
1	A	82	LEU	N	125.195	0.3	1
1	A	83	ASN	H	7.92	0.020	1
1	A	83	ASN	HB2	2.649	0.020	2
1	A	83	ASN	HB3	2.54	0.020	2
1	A	83	ASN	C	176.583	0.3	1
1	A	83	ASN	CA	54.753	0.3	1
1	A	83	ASN	CB	41.23	0.3	1
1	A	83	ASN	N	124.102	0.3	1
1	A	84	GLY	H	8.257	0.020	1
1	A	84	GLY	HA2	3.739	0.020	1
1	A	84	GLY	C	174.343	0.3	1
1	A	84	GLY	CA	45.625	0.3	1
1	A	84	GLY	N	113.711	0.3	1
1	A	85	HIS	H	8.229	0.020	1
1	A	85	HIS	CA	56.246	0.3	1
1	A	85	HIS	CB	30.241	0.3	1
1	A	85	HIS	N	118.633	0.3	1
1	A	86	LYS	HG2	1.232	0.020	1
1	A	86	LYS	C	176.07	0.3	1
1	A	86	LYS	CA	56.242	0.3	1
1	A	86	LYS	CB	32.71	0.3	1
1	A	86	LYS	CE	42.145	0.3	1
1	A	86	LYS	CG	24.72	0.3	1
1	A	86	LYS	N	121.914	0.3	1
1	A	87	HIS	H	8.201	0.020	1
1	A	87	HIS	N	116.992	0.3	1
1	A	88	PRO	HB2	1.668	0.020	1
1	A	88	PRO	HD2	3.33	0.020	1
1	A	88	PRO	HG2	1.832	0.020	1
1	A	88	PRO	C	177.79	0.3	1
1	A	88	PRO	CA	66.239	0.3	1
1	A	88	PRO	CB	31.719	0.3	1
1	A	88	PRO	CD	50.653	0.3	1
1	A	88	PRO	CG	27.169	0.3	1
1	A	89	HIS	H	8.538	0.020	1
1	A	89	HIS	C	175.554	0.3	1
1	A	89	HIS	CA	56.236	0.3	1
1	A	89	HIS	CB	30.257	0.3	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	89	HIS	N	119.18	0.3	1
1	A	90	SER	H	8.144	0.020	1
1	A	90	SER	HB2	3.957	0.020	1
1	A	90	SER	CA	58.565	0.3	1
1	A	90	SER	CB	63.886	0.3	1
1	A	90	SER	N	116.445	0.3	1
1	A	91	HIS	C	175.204	0.3	1
1	A	91	HIS	CA	56.242	0.3	1
1	A	91	HIS	CB	30.235	0.3	1
1	A	92	ARG	H	8.144	0.020	1
1	A	92	ARG	HB2	1.913	0.020	1
1	A	92	ARG	C	177.447	0.3	1
1	A	92	ARG	CA	56.257	0.3	1
1	A	92	ARG	CB	30.241	0.3	1
1	A	92	ARG	CG	27.772	0.3	1
1	A	92	ARG	N	122.461	0.3	1
1	A	93	GLU	H	8.088	0.020	1
1	A	93	GLU	HA	4.202	0.020	1
1	A	93	GLU	CA	56.224	0.3	1
1	A	93	GLU	CB	30.723	0.3	1
1	A	93	GLU	N	121.367	0.3	1
1	A	94	GLU	HA	4.147	0.020	1
1	A	94	GLU	HB2	1.912	0.020	2
1	A	94	GLU	HB3	1.777	0.020	2
1	A	94	GLU	HG2	1.967	0.020	2
1	A	94	GLU	HG3	1.914	0.020	2
1	A	94	GLU	C	177.274	0.3	1
1	A	94	GLU	CA	56.702	0.3	1
1	A	94	GLU	CB	30.252	0.3	1
1	A	94	GLU	CG	36.274	0.3	1
1	A	94	GLU	N	122.461	0.3	1
1	A	95	GLY	H	8.341	0.020	1
1	A	95	GLY	C	174.213	0.3	1
1	A	95	GLY	CA	45.276	0.3	1
1	A	95	GLY	N	109.336	0.3	1
1	A	96	HIS	H	8.06	0.020	1
1	A	96	HIS	C	178.658	0.3	1
1	A	96	HIS	N	118.633	0.3	1
1	A	97	SER	H	8.116	0.020	1
1	A	97	SER	CA	58.258	0.3	1
1	A	97	SER	CB	63.754	0.3	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	97	SER	N	115.812	0.3	1
1	A	98	HIS	N	118.633	0.3	1
1	A	99	SER	C	179.517	0.3	1
1	A	99	SER	CA	58.256	0.3	1
1	A	99	SER	CB	63.755	0.3	1
1	A	100	HIS	H	8.312	0.020	1
1	A	100	HIS	C	175.896	0.3	1
1	A	100	HIS	CA	56.254	0.3	1
1	A	100	HIS	CB	30.254	0.3	1
1	A	100	HIS	N	120.82	0.3	1
1	A	101	GLY	H	8.313	0.020	1
1	A	101	GLY	CA	45.266	0.3	1
1	A	101	GLY	N	109.883	0.3	1
1	A	102	ALA	HA	4.214	0.020	1
1	A	102	ALA	HB1	1.259	0.020	1
1	A	102	ALA	HB2	1.259	0.020	1
1	A	102	ALA	HB3	1.259	0.020	1
1	A	102	ALA	C	178.484	0.3	1
1	A	102	ALA	CA	52.736	0.3	1
1	A	102	ALA	CB	19.237	0.3	1
1	A	102	ALA	N	123.555	0.3	1
1	A	103	GLY	H	8.285	0.020	1
1	A	103	GLY	C	174.342	0.3	1
1	A	103	GLY	CA	45.241	0.3	1
1	A	103	GLY	N	107.696	0.3	1
1	A	104	GLU	H	8.06	0.020	1
1	A	104	GLU	C	176.413	0.3	1
1	A	104	GLU	CA	56.759	0.3	1
1	A	104	GLU	CB	30.236	0.3	1
1	A	104	GLU	N	119.727	0.3	1
1	A	105	PHE	H	8.117	0.020	1
1	A	105	PHE	HA	4.474	0.020	1
1	A	105	PHE	HB2	3.003	0.020	2
1	A	105	PHE	HB3	2.84	0.020	2
1	A	105	PHE	C	175.547	0.3	1
1	A	105	PHE	CA	57.743	0.3	1
1	A	105	PHE	CB	39.499	0.3	1
1	A	105	PHE	N	120.273	0.3	1
1	A	106	ASN	H	8.172	0.020	1
1	A	106	ASN	HA	4.528	0.020	1
1	A	106	ASN	C	175.547	0.3	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	106	ASN	CA	53.225	0.3	1
1	A	106	ASN	CB	38.753	0.3	1
1	A	106	ASN	N	119.727	0.3	1
1	A	107	LEU	H	8.06	0.020	1
1	A	107	LEU	HD11	0.747	0.020	1
1	A	107	LEU	HD12	0.747	0.020	1
1	A	107	LEU	HD13	0.747	0.020	1
1	A	107	LEU	HD21	0.688	0.020	1
1	A	107	LEU	HD22	0.688	0.020	1
1	A	107	LEU	HD23	0.688	0.020	1
1	A	107	LEU	C	177.446	0.3	1
1	A	107	LEU	CA	55.249	0.3	1
1	A	107	LEU	CB	42.261	0.3	1
1	A	107	LEU	CD1	24.834	0.3	1
1	A	107	LEU	CD2	23.512	0.3	1
1	A	107	LEU	CG	26.901	0.3	1
1	A	107	LEU	N	121.914	0.3	1
1	A	108	LYS	H	8.145	0.020	1
1	A	108	LYS	HA	4.229	0.020	1
1	A	108	LYS	HB2	1.559	0.020	2
1	A	108	LYS	HB3	1.505	0.020	2
1	A	108	LYS	HD2	1.482	0.020	1
1	A	108	LYS	HG2	1.181	0.020	2
1	A	108	LYS	HG3	1.123	0.020	2
1	A	108	LYS	C	176.413	0.3	1
1	A	108	LYS	CA	56.24	0.3	1
1	A	108	LYS	CB	32.733	0.3	1
1	A	108	LYS	CD	28.888	0.3	1
1	A	108	LYS	CE	42.144	0.3	1
1	A	108	LYS	CG	24.836	0.3	1
1	A	108	LYS	N	121.914	0.3	1
1	A	109	GLN	H	8.256	0.020	1
1	A	109	GLN	HA	4.201	0.020	1
1	A	109	GLN	HB2	1.995	0.020	1
1	A	109	GLN	HG2	2.077	0.020	1
1	A	109	GLN	C	175.716	0.3	1
1	A	109	GLN	CA	55.756	0.3	1
1	A	109	GLN	CB	29.732	0.3	1
1	A	109	GLN	CG	36.499	0.3	1
1	A	109	GLN	N	121.914	0.3	1
1	A	110	GLU	HA	4.147	0.020	1

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List ID	Chain	Res	Type	Atom	Shift Data		
					Value	Uncertainty	Ambiguity
1	A	110	GLU	HB2	1.913	0.020	2
1	A	110	GLU	HB3	1.695	0.020	2
1	A	110	GLU	HG2	2.13	0.020	1
1	A	110	GLU	C	175.545	0.3	1
1	A	110	GLU	CA	56.246	0.3	1
1	A	110	GLU	CB	30.241	0.3	1
1	A	110	GLU	CG	36.279	0.3	1
1	A	110	GLU	N	123.008	0.3	1
1	A	111	LEU	H	7.835	0.020	1
1	A	111	LEU	HA	4.065	0.020	1
1	A	111	LEU	HB2	1.45	0.020	1
1	A	111	LEU	HD11	0.769	0.020	1
1	A	111	LEU	HD12	0.769	0.020	1
1	A	111	LEU	HD13	0.769	0.020	1
1	A	111	LEU	HD21	0.715	0.020	1
1	A	111	LEU	HD22	0.715	0.020	1
1	A	111	LEU	HD23	0.715	0.020	1
1	A	111	LEU	HG	1.45	0.020	1
1	A	111	LEU	CA	56.821	0.3	1
1	A	111	LEU	CB	43.447	0.3	1
1	A	111	LEU	CD1	25.136	0.3	1
1	A	111	LEU	CD2	23.668	0.3	1
1	A	111	LEU	CG	27.188	0.3	1
1	A	111	LEU	N	129.023	0.3	1

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
$^{13}\text{C}_\alpha$	103	-0.05 ± 0.11	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	94	-0.01 ± 0.11	None needed (< 0.5 ppm)
$^{13}\text{C}'$	93	-0.18 ± 0.19	None needed (< 0.5 ppm)
^{15}N	99	0.30 ± 0.45	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 83%, i.e. 727 atoms were assigned a chemical shift out of a possible 879. 0 out of 12 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	315/331 (95%)	122/135 (90%)	129/132 (98%)	64/64 (100%)
Sidechain	412/530 (78%)	268/348 (77%)	144/162 (89%)	0/20 (0%)
Aromatic	0/18 (0%)	0/8 (0%)	0/10 (0%)	0/0 (—%)
Overall	727/879 (83%)	390/491 (79%)	273/304 (90%)	64/84 (76%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 81%, i.e. 765 atoms were assigned a chemical shift out of a possible 940. 0 out of 12 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	330/354 (93%)	126/144 (88%)	137/142 (96%)	67/68 (99%)
Sidechain	435/568 (77%)	282/373 (76%)	153/172 (89%)	0/23 (0%)
Aromatic	0/18 (0%)	0/8 (0%)	0/10 (0%)	0/0 (—%)
Overall	765/940 (81%)	408/525 (78%)	290/324 (90%)	67/91 (74%)

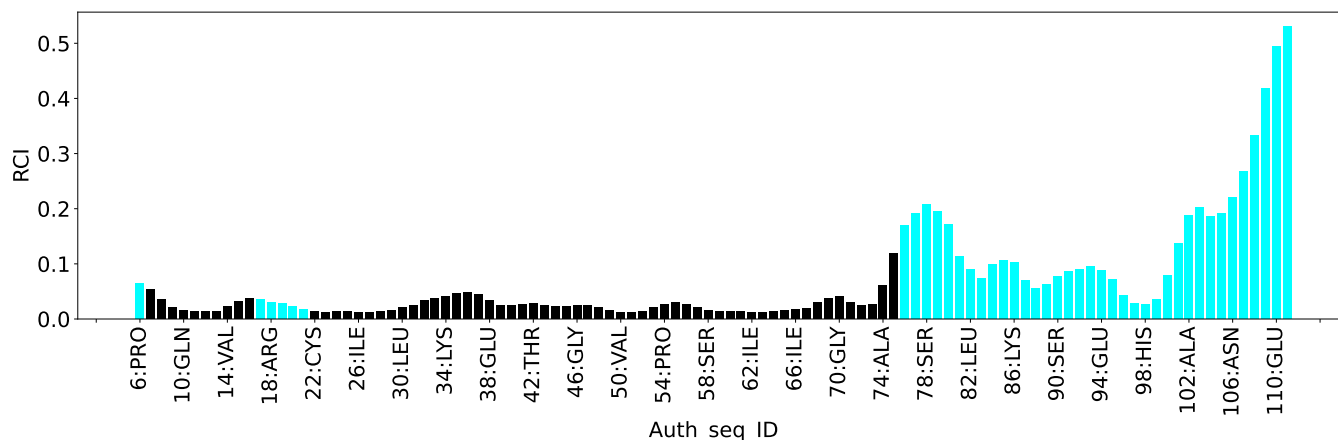
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

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

Description	Value
Total distance restraints	759
Intra-residue ($ i-j =0$)	172
Sequential ($ i-j =1$)	193
Medium range ($ i-j >1$ and $ i-j <5$)	135
Long range ($ i-j \geq 5$)	245
Inter-chain	0
Hydrogen bond restraints	14
Disulfide bond restraints	0
Total dihedral-angle restraints	0
Number of unmapped restraints	0
Number of restraints per residue	7.2
Number of long range restraints per residue ¹	2.4

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

8.2 Residual restraint violations

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

8.2.1 Average number of distance violations per model

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

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	15.7	0.2
0.2-0.5 (Medium)	20.6	0.5
>0.5 (Large)	60.4	4.59

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

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

9 Distance violation analysis ⓘ

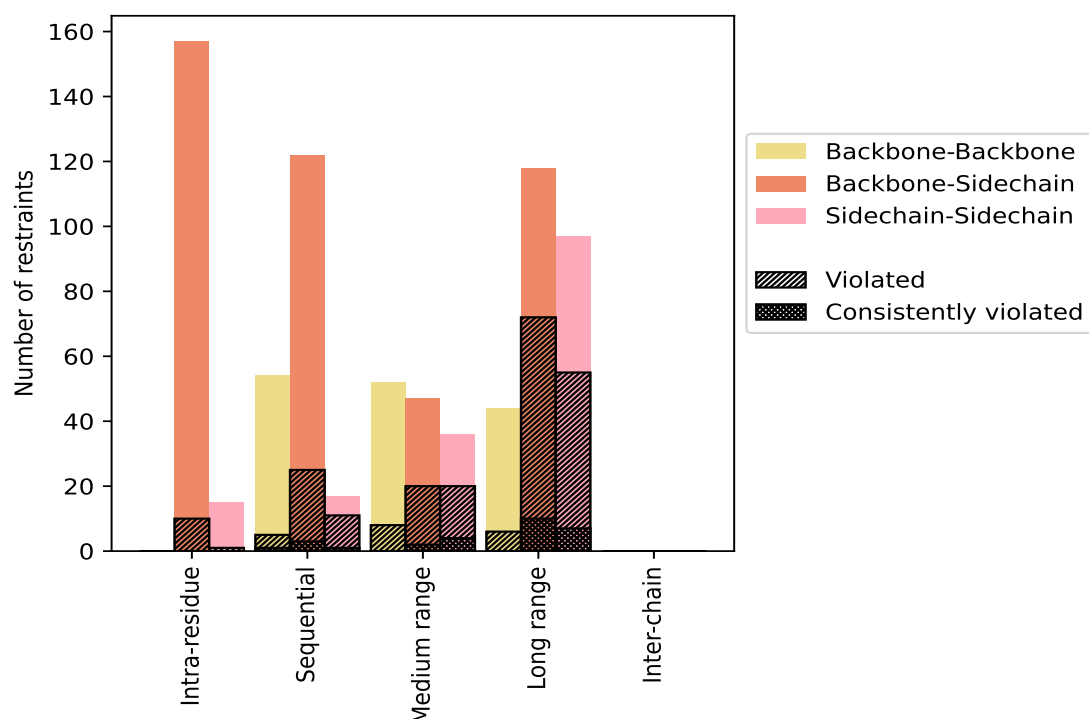
9.1 Summary of distance violations ⓘ

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

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	172	22.7	11	6.4	1.4	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	157	20.7	10	6.4	1.3	0	0.0	0.0
Sidechain-Sidechain	15	2.0	1	6.7	0.1	0	0.0	0.0
Sequential ($i-j =1$)	193	25.4	41	21.2	5.4	5	2.6	0.7
Backbone-Backbone	54	7.1	5	9.3	0.7	1	1.9	0.1
Backbone-Sidechain	122	16.1	25	20.5	3.3	3	2.5	0.4
Sidechain-Sidechain	17	2.2	11	64.7	1.4	1	5.9	0.1
Medium range ($i-j >1$ & $i-j <5$)	135	17.8	48	35.6	6.3	6	4.4	0.8
Backbone-Backbone	52	6.9	8	15.4	1.1	0	0.0	0.0
Backbone-Sidechain	47	6.2	20	42.6	2.6	2	4.3	0.3
Sidechain-Sidechain	36	4.7	20	55.6	2.6	4	11.1	0.5
Long range ($i-j \geq 5$)	245	32.3	120	49.0	15.8	17	6.9	2.2
Backbone-Backbone	44	5.8	6	13.6	0.8	0	0.0	0.0
Backbone-Sidechain	104	13.7	59	56.7	7.8	10	9.6	1.3
Sidechain-Sidechain	97	12.8	55	56.7	7.2	7	7.2	0.9
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	14	1.8	13	92.9	1.7	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	759	100.0	233	30.7	30.7	28	3.7	3.7
Backbone-Backbone	150	19.8	19	12.7	2.5	1	0.7	0.1
Backbone-Sidechain	444	58.5	127	28.6	16.7	15	3.4	2.0
Sidechain-Sidechain	165	21.7	87	52.7	11.5	12	7.3	1.6

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

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



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

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

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

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	3	21	17	59	0	100	1.0	4.31	0.89	0.81
2	1	20	22	60	0	103	0.91	3.46	0.78	0.8
3	4	23	23	62	0	112	1.02	4.16	0.96	0.75
4	3	19	21	62	0	105	0.94	3.43	0.81	0.81
5	1	13	20	59	0	93	0.9	3.84	0.72	0.73
6	4	17	17	51	0	89	0.87	4.59	0.78	0.62
7	1	19	18	54	0	92	0.93	3.17	0.78	0.72
8	5	14	19	64	0	102	0.88	3.34	0.72	0.77
9	2	16	19	52	0	89	0.99	4.31	0.84	0.78
10	4	18	22	62	0	106	0.86	3.42	0.71	0.63

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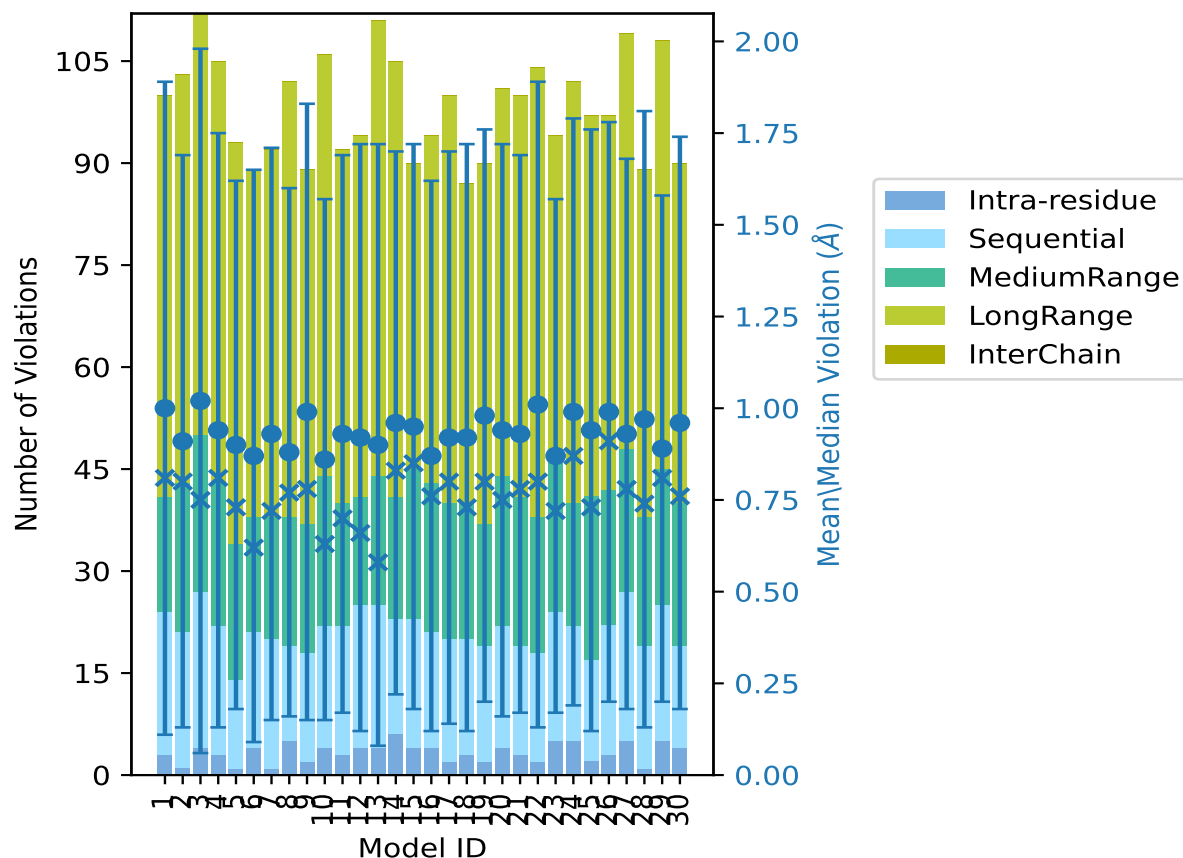
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
11	3	19	18	52	0	92	0.93	3.84	0.76	0.7
12	4	21	16	53	0	94	0.92	3.71	0.8	0.66
13	4	21	19	67	0	111	0.9	3.78	0.82	0.58
14	6	17	18	64	0	105	0.96	3.47	0.74	0.83
15	4	19	22	45	0	90	0.95	3.5	0.77	0.85
16	4	17	22	51	0	94	0.87	3.64	0.75	0.76
17	2	18	20	60	0	100	0.92	4.3	0.78	0.8
18	3	17	20	47	0	87	0.92	3.88	0.8	0.73
19	2	17	18	53	0	90	0.98	3.48	0.78	0.8
20	4	18	22	57	0	101	0.94	3.98	0.78	0.75
21	3	16	22	59	0	100	0.93	4.15	0.76	0.78
22	2	16	20	66	0	104	1.01	4.03	0.88	0.8
23	5	19	22	48	0	94	0.87	4.14	0.7	0.72
24	5	17	18	62	0	102	0.99	3.69	0.8	0.87
25	2	15	24	56	0	97	0.94	4.01	0.82	0.73
26	3	19	20	55	0	97	0.99	3.94	0.79	0.91
27	5	22	21	61	0	109	0.93	3.56	0.75	0.78
28	1	18	19	51	0	89	0.97	3.7	0.84	0.74
29	5	20	20	63	0	108	0.89	3.2	0.69	0.81
30	4	15	21	50	0	90	0.96	3.09	0.78	0.76

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, 525(IR:161, SQ:152, MR:87, LR:125, 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	%
2	9	7	13	0	31	1	3.3
1	2	6	9	0	18	2	6.7
1	3	2	8	0	14	3	10.0
1	0	3	4	0	8	4	13.3
0	1	0	5	0	6	5	16.7
0	3	2	6	0	11	6	20.0

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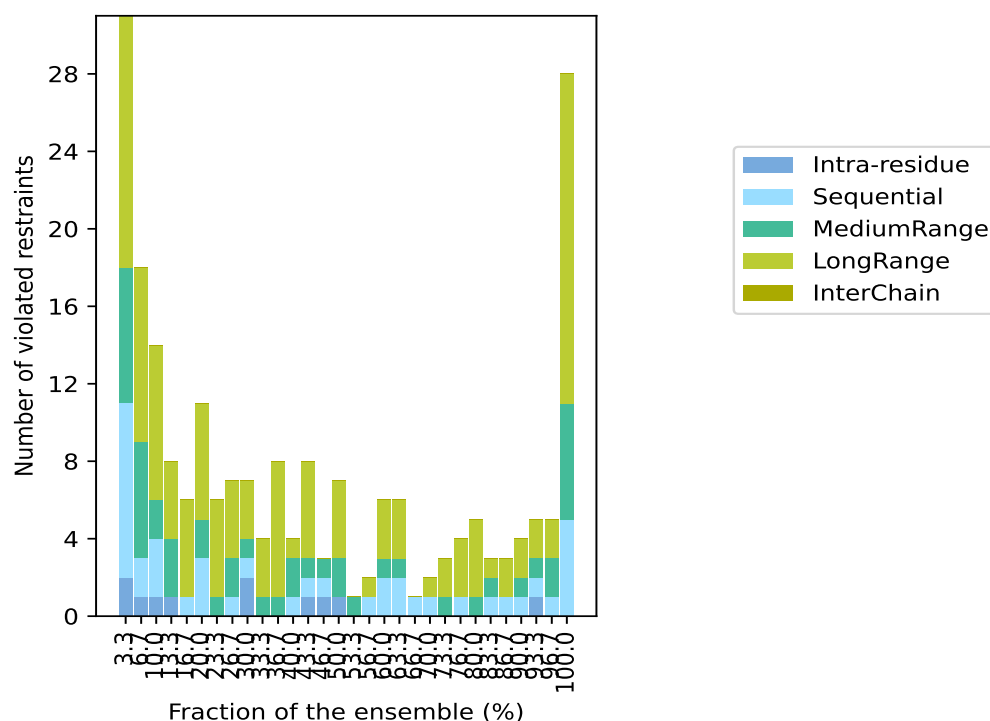
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Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	1	5	0	6	7	23.3
0	1	2	4	0	7	8	26.7
2	1	1	3	0	7	9	30.0
0	0	1	3	0	4	10	33.3
0	0	1	7	0	8	11	36.7
0	1	2	1	0	4	12	40.0
1	1	1	5	0	8	13	43.3
1	1	1	0	0	3	14	46.7
1	0	2	4	0	7	15	50.0
0	0	1	0	0	1	16	53.3
0	1	0	1	0	2	17	56.7
0	2	1	3	0	6	18	60.0
0	2	1	3	0	6	19	63.3
0	1	0	0	0	1	20	66.7
0	1	0	1	0	2	21	70.0
0	0	1	2	0	3	22	73.3
0	1	0	3	0	4	23	76.7
0	0	1	4	0	5	24	80.0
0	1	1	1	0	3	25	83.3
0	1	0	2	0	3	26	86.7
0	1	1	2	0	4	27	90.0
1	1	1	2	0	5	28	93.3
0	1	2	2	0	5	29	96.7
0	5	6	17	0	28	30	100.0

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

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

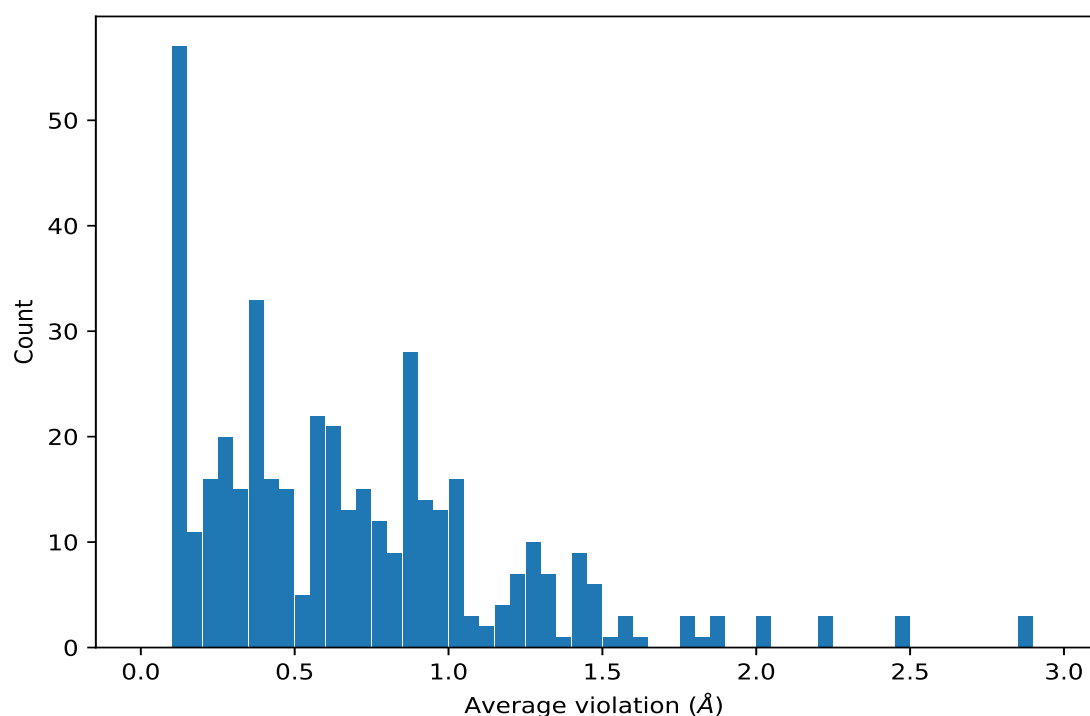
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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

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

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



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

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

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	30	2.24	0.92	2.37
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	30	2.24	0.92	2.37
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	30	2.24	0.92	2.37
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	30	2.01	0.14	2.03
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	30	2.01	0.14	2.03
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	30	2.01	0.14	2.03
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	30	1.86	0.84	2.05
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	30	1.86	0.84	2.05
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	30	1.86	0.84	2.05
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	30	1.77	0.92	1.6
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	30	1.77	0.92	1.6
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	30	1.77	0.92	1.6
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	30	1.65	0.57	1.74
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	30	1.59	0.47	1.28
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	30	1.59	0.47	1.28
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	30	1.59	0.47	1.28

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	30	1.46	0.46	1.46
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	30	1.46	0.46	1.46
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	30	1.46	0.46	1.46
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	30	1.41	0.82	1.02
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	30	1.41	0.82	1.02
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	30	1.41	0.82	1.02
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	30	1.41	0.82	1.02
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	30	1.41	0.82	1.02
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	30	1.41	0.82	1.02
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	30	1.41	0.82	1.02
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	30	1.41	0.82	1.02
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	30	1.41	0.82	1.02
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	30	1.34	0.38	1.12
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	30	1.3	0.27	1.36
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	30	1.3	0.27	1.36
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	30	1.3	0.27	1.36
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	30	1.26	0.17	1.24
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	30	1.26	0.17	1.24
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	30	1.26	0.17	1.24
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	30	1.23	0.18	1.21
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	30	1.23	0.18	1.21
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	30	1.23	0.18	1.21
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	30	1.21	0.13	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	30	1.21	0.13	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	30	1.21	0.13	1.18
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	30	1.2	0.54	1.14
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	30	1.07	0.41	0.98
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	30	1.06	0.26	1.04
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	30	1.0	0.45	1.06
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	30	0.96	0.26	0.97
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	30	0.96	0.26	0.97
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	30	0.96	0.26	0.97
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	30	0.92	0.24	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	30	0.92	0.24	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	30	0.92	0.24	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	30	0.92	0.24	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	30	0.92	0.24	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	30	0.92	0.24	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	30	0.92	0.24	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	30	0.92	0.24	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	30	0.92	0.24	0.99
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	30	0.87	0.13	0.88

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	30	0.87	0.13	0.88
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	30	0.87	0.13	0.88
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	30	0.86	0.23	0.86
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	30	0.86	0.23	0.86
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	30	0.86	0.23	0.86
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	30	0.37	0.1	0.38
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	30	0.37	0.1	0.38
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	30	0.37	0.1	0.38
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	30	0.35	0.17	0.29
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	30	0.35	0.17	0.29
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	30	0.25	0.03	0.26
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	30	0.25	0.03	0.26
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	30	0.25	0.03	0.26
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	29	1.8	0.69	2.04
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	29	1.35	0.46	1.39
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	29	0.57	0.22	0.56
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	29	0.57	0.22	0.56
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	29	0.57	0.22	0.56
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	29	0.57	0.22	0.56
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	29	0.57	0.22	0.56
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	29	0.57	0.22	0.56
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	28	1.26	0.64	1.4
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	28	1.26	0.64	1.4
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	28	1.26	0.64	1.4
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	28	0.36	0.18	0.3
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	28	0.36	0.18	0.3
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	28	0.36	0.18	0.3
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	28	0.36	0.18	0.3
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	28	0.36	0.18	0.3
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	28	0.36	0.18	0.3
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	28	0.36	0.18	0.3
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	28	0.36	0.18	0.3
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	28	0.36	0.18	0.3
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	28	0.21	0.06	0.22
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	28	0.21	0.06	0.22
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	28	0.21	0.06	0.22
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	28	0.16	0.03	0.16
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	27	0.76	0.25	0.75
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	27	0.76	0.25	0.75
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	27	0.76	0.25	0.75
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	27	0.74	0.34	0.78
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	26	1.26	0.52	1.35

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	26	1.26	0.52	1.35
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	26	1.26	0.52	1.35
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	26	0.65	0.32	0.6
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	26	0.27	0.13	0.22
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	26	0.27	0.13	0.22
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	26	0.27	0.13	0.22
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	25	1.49	0.9	1.57
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	25	1.49	0.9	1.57
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	25	1.49	0.9	1.57
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	25	1.31	0.68	1.4
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	25	1.31	0.68	1.4
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	25	1.31	0.68	1.4
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	25	1.1	0.62	1.0
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	24	1.52	0.47	1.47
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	24	0.78	0.49	0.6
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	24	0.78	0.49	0.6
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	24	0.78	0.49	0.6
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	24	0.64	0.21	0.63
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	24	0.54	0.36	0.49
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	24	0.54	0.36	0.49
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	24	0.54	0.36	0.49
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	23	0.14	0.03	0.14
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	22	0.88	0.45	0.92
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	22	0.88	0.45	0.92
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	22	0.88	0.45	0.92
(3,7)	1:49:A:THR:H	1:40:A:SER:O	22	0.27	0.11	0.22
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	22	0.14	0.03	0.14
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	21	0.88	0.41	1.02
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	21	0.17	0.04	0.16
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	20	0.25	0.1	0.22
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	19	1.24	0.47	1.28
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	19	1.16	0.38	1.29
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	19	1.16	0.38	1.29
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	19	1.16	0.38	1.29
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	19	1.07	0.34	1.22
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	19	0.9	0.72	0.6
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	19	0.49	0.24	0.45
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	19	0.49	0.24	0.45
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	19	0.49	0.24	0.45
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	19	0.49	0.28	0.41
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	19	0.49	0.28	0.41
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	19	0.49	0.28	0.41

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	18	1.01	0.39	1.04
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	18	1.01	0.39	1.04
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	18	1.01	0.39	1.04
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	18	0.8	0.33	0.75
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	18	0.8	0.33	0.75
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	18	0.8	0.33	0.75
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	18	0.79	0.26	0.8
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	18	0.79	0.26	0.8
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	18	0.79	0.26	0.8
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	18	0.74	0.13	0.73
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	18	0.74	0.13	0.73
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	18	0.74	0.13	0.73
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	18	0.13	0.02	0.12
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	17	0.36	0.19	0.28
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	17	0.36	0.19	0.28
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	17	0.36	0.19	0.28
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	17	0.36	0.19	0.28
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	17	0.36	0.19	0.28
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	17	0.36	0.19	0.28
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	17	0.36	0.19	0.28
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	17	0.36	0.19	0.28
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	17	0.36	0.19	0.28
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	16	1.27	0.26	1.35
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	15	0.81	0.39	0.82
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	15	0.79	0.8	0.4
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	15	0.79	0.8	0.4
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	15	0.79	0.8	0.4
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	15	0.72	0.26	0.6
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	15	0.72	0.26	0.6
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	15	0.72	0.26	0.6
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	15	0.15	0.04	0.14
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	15	0.14	0.03	0.12
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	14	0.97	0.54	0.82
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	14	0.38	0.33	0.22
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	14	0.2	0.05	0.2
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	13	0.74	0.43	0.64
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	13	0.62	0.46	0.52
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	13	0.62	0.46	0.52
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	13	0.62	0.46	0.52
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	13	0.62	0.46	0.52
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	13	0.62	0.46	0.52
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	13	0.62	0.46	0.52

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	13	0.62	0.46	0.52
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	13	0.62	0.46	0.52
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	13	0.62	0.46	0.52
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	13	0.54	0.25	0.5
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	13	0.5	0.18	0.46
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	13	0.13	0.02	0.12
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	12	0.84	0.54	0.72
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	12	0.61	0.41	0.62
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	12	0.49	0.34	0.43
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	12	0.37	0.33	0.3
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	12	0.16	0.04	0.15
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	11	0.92	0.75	0.37
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	11	0.92	0.75	0.37
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	11	0.92	0.75	0.37
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	11	0.89	0.55	1.2
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	11	0.89	0.55	1.2
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	11	0.89	0.55	1.2
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	11	0.89	0.25	0.94
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	11	0.89	0.25	0.94
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	11	0.89	0.25	0.94
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	11	0.86	0.6	0.66
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	11	0.86	0.6	0.66
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	11	0.86	0.6	0.66
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	11	0.73	0.42	0.61
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	11	0.72	0.36	0.85
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	11	0.72	0.36	0.85
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	11	0.72	0.36	0.85
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	11	0.71	0.53	0.61
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	11	0.71	0.53	0.61
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	11	0.71	0.53	0.61
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	11	0.11	0.01	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	11	0.11	0.01	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	11	0.11	0.01	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	11	0.11	0.01	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	11	0.11	0.01	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	11	0.11	0.01	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	11	0.11	0.01	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	11	0.11	0.01	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	11	0.11	0.01	0.11
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	10	0.55	0.28	0.52
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	10	0.55	0.28	0.52
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	10	0.55	0.28	0.52

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	10	0.38	0.18	0.38
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	10	0.38	0.18	0.38
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	10	0.38	0.18	0.38
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	10	0.34	0.18	0.31
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	10	0.13	0.03	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	10	0.12	0.01	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	10	0.12	0.01	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	10	0.12	0.01	0.12
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	9	0.64	0.32	0.65
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	9	0.64	0.32	0.65
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	9	0.64	0.32	0.65
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	9	0.43	0.23	0.46
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	9	0.43	0.23	0.46
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	9	0.43	0.23	0.46
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	9	0.42	0.18	0.36
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	9	0.42	0.18	0.36
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	9	0.42	0.18	0.36
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	9	0.37	0.03	0.37
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	9	0.37	0.03	0.37
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	9	0.37	0.03	0.37
(3,8)	1:49:A:THR:N	1:40:A:SER:O	9	0.24	0.11	0.26
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	9	0.21	0.07	0.19
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	9	0.14	0.05	0.12
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	9	0.14	0.05	0.12
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	9	0.14	0.05	0.12
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	9	0.13	0.02	0.13
(1,403)	1:33:A:LEU:HD21	1:34:A:LYS:H	8	0.46	0.14	0.43
(1,403)	1:33:A:LEU:HD22	1:34:A:LYS:H	8	0.46	0.14	0.43
(1,403)	1:33:A:LEU:HD23	1:34:A:LYS:H	8	0.46	0.14	0.43
(2,3)	1:50:A:VAL:HB	1:52:A:TYR:HB3	8	0.36	0.15	0.42
(1,4)	1:7:A:LEU:HD21	1:52:A:TYR:HA	8	0.25	0.08	0.22
(1,4)	1:7:A:LEU:HD22	1:52:A:TYR:HA	8	0.25	0.08	0.22
(1,4)	1:7:A:LEU:HD23	1:52:A:TYR:HA	8	0.25	0.08	0.22
(1,184)	1:30:A:LEU:HD11	1:62:A:ILE:HA	7	2.49	1.17	2.69
(1,184)	1:30:A:LEU:HD12	1:62:A:ILE:HA	7	2.49	1.17	2.69
(1,184)	1:30:A:LEU:HD13	1:62:A:ILE:HA	7	2.49	1.17	2.69
(2,36)	1:28:A:ARG:HG3	1:32:A:ARG:HD3	7	0.85	0.63	0.86
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD11	7	0.32	0.15	0.29
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD12	7	0.32	0.15	0.29
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD13	7	0.32	0.15	0.29
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD11	7	0.32	0.15	0.29
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD12	7	0.32	0.15	0.29

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD13	7	0.32	0.15	0.29
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD11	7	0.32	0.15	0.29
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD12	7	0.32	0.15	0.29
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD13	7	0.32	0.15	0.29
(1,186)	1:30:A:LEU:HD11	1:62:A:ILE:HG13	6	2.88	1.16	2.9
(1,186)	1:30:A:LEU:HD12	1:62:A:ILE:HG13	6	2.88	1.16	2.9
(1,186)	1:30:A:LEU:HD13	1:62:A:ILE:HG13	6	2.88	1.16	2.9
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG21	6	1.04	0.28	1.1
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG22	6	1.04	0.28	1.1
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG23	6	1.04	0.28	1.1
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG21	6	1.04	0.28	1.1
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG22	6	1.04	0.28	1.1
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG23	6	1.04	0.28	1.1
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG21	6	1.04	0.28	1.1
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG22	6	1.04	0.28	1.1
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG23	6	1.04	0.28	1.1
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG11	6	0.83	0.29	0.86
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG12	6	0.83	0.29	0.86
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG13	6	0.83	0.29	0.86
(1,237)	1:60:A:ILE:HD11	1:63:A:GLN:HB3	6	0.63	0.18	0.66
(1,237)	1:60:A:ILE:HD12	1:63:A:GLN:HB3	6	0.63	0.18	0.66
(1,237)	1:60:A:ILE:HD13	1:63:A:GLN:HB3	6	0.63	0.18	0.66
(3,13)	1:15:A:GLY:H	1:72:A:THR:O	6	0.4	0.45	0.2
(3,1)	1:12:A:MET:H	1:48:A:LEU:O	6	0.34	0.14	0.36
(1,654)	1:14:A:VAL:HG21	1:74:A:ALA:H	6	0.26	0.1	0.2
(1,654)	1:14:A:VAL:HG22	1:74:A:ALA:H	6	0.26	0.1	0.2
(1,654)	1:14:A:VAL:HG23	1:74:A:ALA:H	6	0.26	0.1	0.2
(1,167)	1:7:A:LEU:HD21	1:8:A:LYS:H	6	0.14	0.02	0.14
(1,167)	1:7:A:LEU:HD22	1:8:A:LYS:H	6	0.14	0.02	0.14
(1,167)	1:7:A:LEU:HD23	1:8:A:LYS:H	6	0.14	0.02	0.14
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG21	6	0.13	0.02	0.14
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG22	6	0.13	0.02	0.14
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG23	6	0.13	0.02	0.14
(1,143)	1:12:A:MET:HG3	1:14:A:VAL:HB	6	0.12	0.02	0.12
(1,155)	1:33:A:LEU:HA	1:34:A:LYS:HB3	6	0.12	0.01	0.12
(1,83)	1:36:A:VAL:HG11	1:52:A:TYR:HB3	5	0.47	0.24	0.43
(1,83)	1:36:A:VAL:HG12	1:52:A:TYR:HB3	5	0.47	0.24	0.43
(1,83)	1:36:A:VAL:HG13	1:52:A:TYR:HB3	5	0.47	0.24	0.43
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD11	5	0.44	0.17	0.41
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD12	5	0.44	0.17	0.41
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD13	5	0.44	0.17	0.41
(1,359)	1:7:A:LEU:HD11	1:52:A:TYR:H	5	0.4	0.24	0.38

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,359)	1:7:A:LEU:HD12	1:52:A:TYR:H	5	0.4	0.24	0.38
(1,359)	1:7:A:LEU:HD13	1:52:A:TYR:H	5	0.4	0.24	0.38
(3,2)	1:12:A:MET:N	1:48:A:LEU:O	5	0.31	0.09	0.3
(1,95)	1:38:A:GLU:HG3	1:51:A:THR:HB	5	0.18	0.05	0.17
(1,181)	1:30:A:LEU:HG	1:31:A:GLU:HA	5	0.16	0.01	0.16
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD11	4	0.96	0.43	1.08
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD12	4	0.96	0.43	1.08
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD13	4	0.96	0.43	1.08
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD11	4	0.96	0.43	1.08
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD12	4	0.96	0.43	1.08
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD13	4	0.96	0.43	1.08
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD11	4	0.96	0.43	1.08
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD12	4	0.96	0.43	1.08
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD13	4	0.96	0.43	1.08
(1,243)	1:42:A:THR:HB	1:47:A:ARG:HB3	4	0.95	0.67	0.91
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD11	4	0.7	0.09	0.73
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD12	4	0.7	0.09	0.73
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD13	4	0.7	0.09	0.73
(1,130)	1:10:A:GLN:HG3	1:75:A:GLU:HG3	4	0.64	0.26	0.59
(3,14)	1:15:A:GLY:N	1:72:A:THR:O	4	0.48	0.5	0.22
(1,267)	1:26:A:ILE:HD11	1:65:A:ARG:HG3	4	0.29	0.1	0.32
(1,267)	1:26:A:ILE:HD12	1:65:A:ARG:HG3	4	0.29	0.1	0.32
(1,267)	1:26:A:ILE:HD13	1:65:A:ARG:HG3	4	0.29	0.1	0.32
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD11	4	0.22	0.05	0.25
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD12	4	0.22	0.05	0.25
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD13	4	0.22	0.05	0.25
(1,235)	1:60:A:ILE:HG21	1:63:A:GLN:HB3	4	0.22	0.07	0.25
(1,235)	1:60:A:ILE:HG22	1:63:A:GLN:HB3	4	0.22	0.07	0.25
(1,235)	1:60:A:ILE:HG23	1:63:A:GLN:HB3	4	0.22	0.07	0.25
(2,17)	1:17:A:MET:HG3	1:22:A:CYS:HB3	3	1.15	0.6	1.35
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG21	3	0.68	0.2	0.62
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG22	3	0.68	0.2	0.62
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG23	3	0.68	0.2	0.62
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG21	3	0.68	0.2	0.62
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG22	3	0.68	0.2	0.62
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG23	3	0.68	0.2	0.62
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG21	3	0.68	0.2	0.62
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG22	3	0.68	0.2	0.62
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG23	3	0.68	0.2	0.62
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD21	3	0.61	0.36	0.65
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD22	3	0.61	0.36	0.65
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD23	3	0.61	0.36	0.65

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Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,68)	1:57:A:VAL:HA	1:58:A:SER:HB3	3	0.59	0.37	0.61
(2,5)	1:35:A:GLY:HA3	1:53:A:ASP:HB3	3	0.45	0.21	0.54
(1,299)	1:35:A:GLY:HA3	1:56:A:GLN:HB3	3	0.32	0.08	0.36
(1,360)	1:50:A:VAL:HG21	1:52:A:TYR:H	3	0.19	0.06	0.17
(1,360)	1:50:A:VAL:HG22	1:52:A:TYR:H	3	0.19	0.06	0.17
(1,360)	1:50:A:VAL:HG23	1:52:A:TYR:H	3	0.19	0.06	0.17
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG11	3	0.18	0.06	0.16
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG12	3	0.18	0.06	0.16
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG13	3	0.18	0.06	0.16
(1,655)	1:75:A:GLU:H	1:76:A:PRO:HA	3	0.15	0.04	0.13
(1,247)	1:11:A:GLN:HG3	1:47:A:ARG:HD3	3	0.12	0.01	0.12
(1,515)	1:65:A:ARG:HA	1:69:A:LEU:H	3	0.12	0.02	0.1
(1,374)	1:12:A:MET:H	1:13:A:GLN:HA	3	0.11	0.01	0.11
(1,348)	1:33:A:LEU:HD11	1:62:A:ILE:HG13	2	1.01	0.24	1.01
(1,348)	1:33:A:LEU:HD12	1:62:A:ILE:HG13	2	1.01	0.24	1.01
(1,348)	1:33:A:LEU:HD13	1:62:A:ILE:HG13	2	1.01	0.24	1.01
(1,189)	1:30:A:LEU:HD21	1:50:A:VAL:HG11	2	0.89	0.43	0.89
(1,189)	1:30:A:LEU:HD21	1:50:A:VAL:HG12	2	0.89	0.43	0.89
(1,189)	1:30:A:LEU:HD21	1:50:A:VAL:HG13	2	0.89	0.43	0.89
(1,189)	1:30:A:LEU:HD22	1:50:A:VAL:HG11	2	0.89	0.43	0.89
(1,189)	1:30:A:LEU:HD22	1:50:A:VAL:HG12	2	0.89	0.43	0.89
(1,189)	1:30:A:LEU:HD22	1:50:A:VAL:HG13	2	0.89	0.43	0.89
(1,189)	1:30:A:LEU:HD23	1:50:A:VAL:HG11	2	0.89	0.43	0.89
(1,189)	1:30:A:LEU:HD23	1:50:A:VAL:HG12	2	0.89	0.43	0.89
(1,189)	1:30:A:LEU:HD23	1:50:A:VAL:HG13	2	0.89	0.43	0.89
(1,45)	1:36:A:VAL:HG21	1:39:A:ALA:HB1	2	0.58	0.24	0.58
(1,45)	1:36:A:VAL:HG21	1:39:A:ALA:HB2	2	0.58	0.24	0.58
(1,45)	1:36:A:VAL:HG21	1:39:A:ALA:HB3	2	0.58	0.24	0.58
(1,45)	1:36:A:VAL:HG22	1:39:A:ALA:HB1	2	0.58	0.24	0.58
(1,45)	1:36:A:VAL:HG22	1:39:A:ALA:HB2	2	0.58	0.24	0.58
(1,45)	1:36:A:VAL:HG22	1:39:A:ALA:HB3	2	0.58	0.24	0.58
(1,45)	1:36:A:VAL:HG23	1:39:A:ALA:HB1	2	0.58	0.24	0.58
(1,45)	1:36:A:VAL:HG23	1:39:A:ALA:HB2	2	0.58	0.24	0.58
(1,45)	1:36:A:VAL:HG23	1:39:A:ALA:HB3	2	0.58	0.24	0.58
(2,19)	1:17:A:MET:HG3	1:26:A:ILE:HD11	2	0.56	0.18	0.56
(2,19)	1:17:A:MET:HG3	1:26:A:ILE:HD12	2	0.56	0.18	0.56
(2,19)	1:17:A:MET:HG3	1:26:A:ILE:HD13	2	0.56	0.18	0.56
(1,179)	1:33:A:LEU:HD21	1:65:A:ARG:H	2	0.44	0.02	0.44
(1,179)	1:33:A:LEU:HD22	1:65:A:ARG:H	2	0.44	0.02	0.44
(1,179)	1:33:A:LEU:HD23	1:65:A:ARG:H	2	0.44	0.02	0.44
(1,200)	1:48:A:LEU:HD21	1:50:A:VAL:HB	2	0.38	0.01	0.38
(1,200)	1:48:A:LEU:HD22	1:50:A:VAL:HB	2	0.38	0.01	0.38

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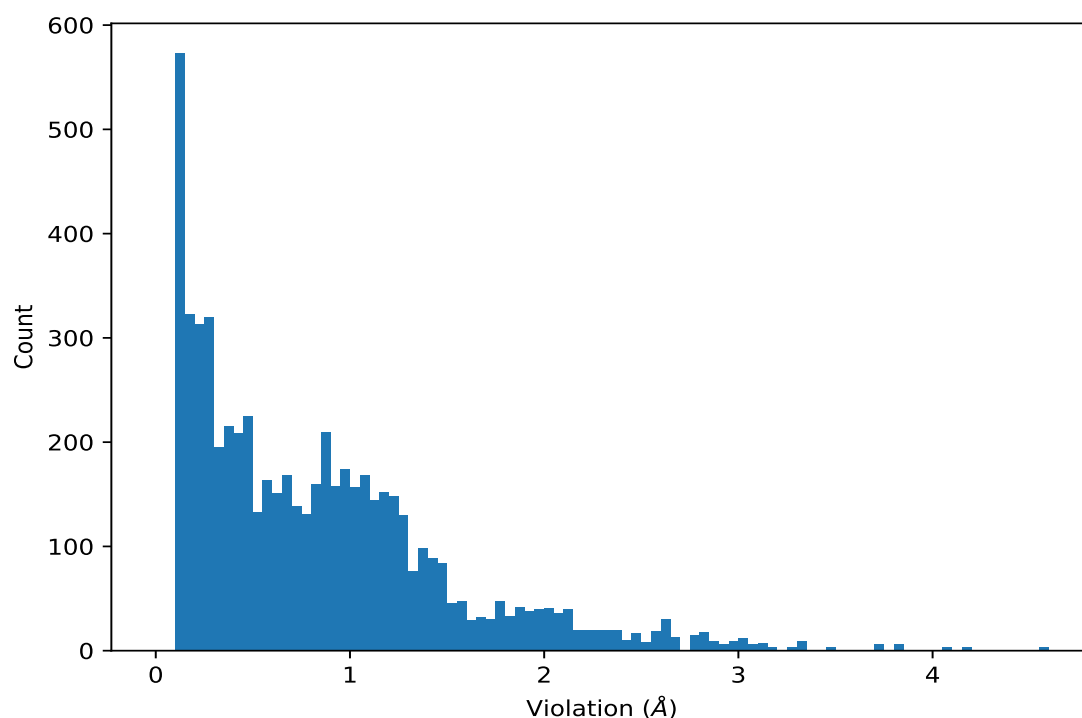
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,200)	1:48:A:LEU:HD23	1:50:A:VAL:HB	2	0.38	0.01	0.38
(1,80)	1:36:A:VAL:HG21	1:52:A:TYR:HA	2	0.26	0.09	0.26
(1,80)	1:36:A:VAL:HG22	1:52:A:TYR:HA	2	0.26	0.09	0.26
(1,80)	1:36:A:VAL:HG23	1:52:A:TYR:HA	2	0.26	0.09	0.26
(1,72)	1:35:A:GLY:H	1:57:A:VAL:HG21	2	0.24	0.09	0.24
(1,72)	1:35:A:GLY:H	1:57:A:VAL:HG22	2	0.24	0.09	0.24
(1,72)	1:35:A:GLY:H	1:57:A:VAL:HG23	2	0.24	0.09	0.24
(1,472)	1:58:A:SER:H	1:62:A:ILE:H	2	0.22	0.01	0.22
(1,304)	1:61:A:THR:HB	1:62:A:ILE:HB	2	0.15	0.04	0.15
(1,201)	1:48:A:LEU:HD21	1:50:A:VAL:HG11	2	0.12	0.01	0.12
(1,201)	1:48:A:LEU:HD21	1:50:A:VAL:HG12	2	0.12	0.01	0.12
(1,201)	1:48:A:LEU:HD21	1:50:A:VAL:HG13	2	0.12	0.01	0.12
(1,201)	1:48:A:LEU:HD22	1:50:A:VAL:HG11	2	0.12	0.01	0.12
(1,201)	1:48:A:LEU:HD22	1:50:A:VAL:HG12	2	0.12	0.01	0.12
(1,201)	1:48:A:LEU:HD22	1:50:A:VAL:HG13	2	0.12	0.01	0.12
(1,201)	1:48:A:LEU:HD23	1:50:A:VAL:HG11	2	0.12	0.01	0.12
(1,201)	1:48:A:LEU:HD23	1:50:A:VAL:HG12	2	0.12	0.01	0.12
(1,201)	1:48:A:LEU:HD23	1:50:A:VAL:HG13	2	0.12	0.01	0.12
(1,212)	1:62:A:ILE:HA	1:66:A:ILE:HD11	2	0.12	0.02	0.12
(1,212)	1:62:A:ILE:HA	1:66:A:ILE:HD12	2	0.12	0.02	0.12
(1,212)	1:62:A:ILE:HA	1:66:A:ILE:HD13	2	0.12	0.02	0.12
(2,68)	1:41:A:VAL:HG21	1:43:A:VAL:H	2	0.12	0.02	0.12
(2,68)	1:41:A:VAL:HG22	1:43:A:VAL:H	2	0.12	0.02	0.12
(2,68)	1:41:A:VAL:HG23	1:43:A:VAL:H	2	0.12	0.02	0.12
(1,262)	1:25:A:SER:HA	1:26:A:ILE:HD11	2	0.12	0.01	0.12
(1,262)	1:25:A:SER:HA	1:26:A:ILE:HD12	2	0.12	0.01	0.12
(1,262)	1:25:A:SER:HA	1:26:A:ILE:HD13	2	0.12	0.01	0.12
(2,46)	1:27:A:GLU:HA	1:62:A:ILE:HD11	2	0.12	0.0	0.12
(2,46)	1:27:A:GLU:HA	1:62:A:ILE:HD12	2	0.12	0.0	0.12
(2,46)	1:27:A:GLU:HA	1:62:A:ILE:HD13	2	0.12	0.0	0.12

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

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

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



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

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

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	6	4.59
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	6	4.59
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	6	4.59
(1,186)	1:30:A:LEU:HD11	1:62:A:ILE:HG13	3	4.16
(1,186)	1:30:A:LEU:HD12	1:62:A:ILE:HG13	3	4.16
(1,186)	1:30:A:LEU:HD13	1:62:A:ILE:HG13	3	4.16
(1,186)	1:30:A:LEU:HD11	1:62:A:ILE:HG13	1	4.05
(1,186)	1:30:A:LEU:HD12	1:62:A:ILE:HG13	1	4.05
(1,186)	1:30:A:LEU:HD13	1:62:A:ILE:HG13	1	4.05
(1,184)	1:30:A:LEU:HD11	1:62:A:ILE:HA	3	3.83
(1,184)	1:30:A:LEU:HD12	1:62:A:ILE:HA	3	3.83
(1,184)	1:30:A:LEU:HD13	1:62:A:ILE:HA	3	3.83
(1,184)	1:30:A:LEU:HD11	1:62:A:ILE:HA	1	3.81
(1,184)	1:30:A:LEU:HD12	1:62:A:ILE:HA	1	3.81
(1,184)	1:30:A:LEU:HD13	1:62:A:ILE:HA	1	3.81
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	9	3.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	9	3.74
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	9	3.74
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	3	3.73
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	3	3.73
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	3	3.73
(1,184)	1:30:A:LEU:HD11	1:62:A:ILE:HA	2	3.46
(1,184)	1:30:A:LEU:HD12	1:62:A:ILE:HA	2	3.46
(1,184)	1:30:A:LEU:HD13	1:62:A:ILE:HA	2	3.46
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	8	3.34
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	8	3.34
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	8	3.34
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	1	3.34
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	1	3.34
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	1	3.34
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	4	3.31
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	4	3.31
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	4	3.31
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	9	3.25
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	9	3.25
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	9	3.25
(1,186)	1:30:A:LEU:HD11	1:62:A:ILE:HG13	2	3.17
(1,186)	1:30:A:LEU:HD12	1:62:A:ILE:HG13	2	3.17
(1,186)	1:30:A:LEU:HD13	1:62:A:ILE:HG13	2	3.17
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	7	3.14
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	7	3.14
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	7	3.14
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	20	3.11
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	20	3.11
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	20	3.11
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	15	3.1
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	30	3.08
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	30	3.08
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	30	3.08
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	4	3.06
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	4	3.06
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	4	3.06
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	28	3.01
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	28	3.01
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	28	3.01
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	4	3.01
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	4	3.01
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	4	3.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	4	3.01
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	4	3.01
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	4	3.01
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	4	3.01
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	4	3.01
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	4	3.01
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	1	2.97
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	1	2.97
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	1	2.97
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	1	2.97
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	1	2.97
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	1	2.97
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	1	2.97
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	1	2.97
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	1	2.97
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	25	2.94
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	25	2.94
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	25	2.94
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	22	2.92
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	22	2.92
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	22	2.92
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	18	2.89
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	18	2.89
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	18	2.89
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	26	2.88
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	26	2.88
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	26	2.88
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	17	2.87
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	17	2.87
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	17	2.87
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	2	2.83
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	2	2.83
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	2	2.83
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	21	2.82
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	21	2.82
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	21	2.82
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	30	2.82
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	30	2.82
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	30	2.82
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	30	2.82
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	30	2.82
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	30	2.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	30	2.82
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	30	2.82
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	30	2.82
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	14	2.82
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	14	2.82
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	14	2.82
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	5	2.79
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	5	2.79
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	5	2.79
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	3	2.79
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	3	2.79
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	3	2.79
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	3	2.79
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	3	2.79
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	3	2.79
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	3	2.79
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	3	2.79
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	3	2.79
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	1	2.76
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	1	2.76
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	1	2.76
(1,184)	1:30:A:LEU:HD11	1:62:A:ILE:HA	24	2.69
(1,184)	1:30:A:LEU:HD12	1:62:A:ILE:HA	24	2.69
(1,184)	1:30:A:LEU:HD13	1:62:A:ILE:HA	24	2.69
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	10	2.67
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	19	2.67
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	19	2.67
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	19	2.67
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	24	2.65
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	24	2.65
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	24	2.65
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	24	2.65
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	24	2.65
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	24	2.65
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	21	2.64
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	21	2.64
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	21	2.64
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	25	2.64
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	25	2.64
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	25	2.64
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	25	2.64
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	25	2.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	25	2.64
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	25	2.64
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	25	2.64
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	25	2.64
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	14	2.63
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	14	2.63
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	14	2.63
(1,186)	1:30:A:LEU:HD11	1:62:A:ILE:HG13	29	2.63
(1,186)	1:30:A:LEU:HD12	1:62:A:ILE:HG13	29	2.63
(1,186)	1:30:A:LEU:HD13	1:62:A:ILE:HG13	29	2.63
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	7	2.61
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	7	2.61
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	7	2.61
(1,186)	1:30:A:LEU:HD11	1:62:A:ILE:HG13	24	2.61
(1,186)	1:30:A:LEU:HD12	1:62:A:ILE:HG13	24	2.61
(1,186)	1:30:A:LEU:HD13	1:62:A:ILE:HG13	24	2.61
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	16	2.6
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	16	2.6
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	16	2.6
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	11	2.6
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	11	2.6
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	11	2.6
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	27	2.58
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	27	2.58
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	27	2.58
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	11	2.57
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	19	2.56
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	16	2.56
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	13	2.55
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	12	2.55
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	12	2.55
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	12	2.55
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	14	2.55
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	14	2.55
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	14	2.55
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	14	2.55
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	14	2.55
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	14	2.55
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	14	2.55
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	14	2.55
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	14	2.55
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	6	2.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	7	2.52
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	7	2.52
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	7	2.52
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	20	2.51
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	20	2.51
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	20	2.51
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	25	2.5
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	18	2.48
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	28	2.48
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	7	2.47
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	7	2.47
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	7	2.47
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	7	2.47
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	7	2.47
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	7	2.47
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	7	2.47
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	7	2.47
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	7	2.47
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	10	2.46
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	10	2.46
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	10	2.46
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	4	2.45
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	4	2.45
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	4	2.45
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	6	2.44
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	6	2.44
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	6	2.44
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	3	2.44
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	29	2.43
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	3	2.41
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	20	2.41
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	22	2.4
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	22	2.4
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	22	2.4
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	24	2.39
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	24	2.39
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	24	2.39
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	7	2.38
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	12	2.38
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	12	2.38
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	12	2.38
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	26	2.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	26	2.38
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	26	2.38
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	3	2.38
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	3	2.38
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	3	2.38
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	29	2.36
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	29	2.36
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	29	2.36
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	29	2.35
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	2	2.35
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	2	2.35
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	2	2.35
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	13	2.34
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	29	2.34
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	29	2.34
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	29	2.34
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	8	2.33
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	8	2.33
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	8	2.33
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	8	2.33
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	8	2.33
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	8	2.33
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	27	2.32
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	27	2.32
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	27	2.32
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	15	2.32
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	15	2.32
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	15	2.32
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	17	2.32
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	17	2.32
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	17	2.32
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	27	2.3
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	10	2.28
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	10	2.28
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	10	2.28
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	1	2.27
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	1	2.27
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	1	2.27
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	30	2.26
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	30	2.26
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	30	2.26
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	30	2.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	27	2.26
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	20	2.26
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	20	2.26
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	20	2.26
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	21	2.26
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	21	2.26
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	21	2.26
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	19	2.25
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	19	2.25
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	19	2.25
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	25	2.24
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	25	2.24
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	25	2.24
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	22	2.23
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	30	2.22
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	26	2.22
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	26	2.22
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	26	2.22
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	11	2.22
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	14	2.22
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	6	2.22
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	6	2.22
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	6	2.22
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	15	2.21
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	15	2.21
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	15	2.21
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	4	2.21
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	4	2.21
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	4	2.21
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	28	2.2
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	12	2.19
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	17	2.19
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	17	2.19
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	17	2.19
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	27	2.19
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	27	2.19
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	27	2.19
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	15	2.19
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	21	2.18
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	1	2.18
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	1	2.18
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	1	2.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	7	2.17
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	28	2.17
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	28	2.17
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	28	2.17
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	18	2.16
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	18	2.16
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	18	2.16
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	2	2.15
(2,36)	1:28:A:ARG:HG3	1:32:A:ARG:HD3	19	2.14
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	17	2.14
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	17	2.14
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	17	2.14
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	17	2.14
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	24	2.13
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	26	2.13
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	13	2.13
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	13	2.13
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	13	2.13
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	11	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	6	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	6	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	6	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	16	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	16	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	16	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	18	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	18	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	18	2.11
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	30	2.11
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	30	2.11
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	30	2.11
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	10	2.11
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	10	2.11
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	10	2.11
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	20	2.1
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	20	2.1
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	20	2.1
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	4	2.1
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	27	2.1
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	27	2.1
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	27	2.1
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	21	2.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	6	2.1
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	6	2.1
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	6	2.1
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	18	2.1
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	18	2.1
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	18	2.1
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	19	2.09
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	19	2.09
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	19	2.09
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	25	2.09
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	25	2.09
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	25	2.09
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	3	2.08
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	3	2.08
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	3	2.08
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	24	2.08
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	11	2.08
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	11	2.08
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	11	2.08
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	18	2.08
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	18	2.08
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	18	2.08
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	24	2.07
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	24	2.07
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	24	2.07
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	10	2.07
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	10	2.07
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	10	2.07
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	11	2.06
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	4	2.06
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	4	2.06
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	4	2.06
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	4	2.06
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	4	2.06
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	4	2.06
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	14	2.05
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	11	2.05
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	11	2.05
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	11	2.05
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	14	2.05
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	14	2.05
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	14	2.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	15	2.04
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	15	2.04
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	15	2.04
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	7	2.04
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	12	2.04
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	12	2.04
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	12	2.04
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	11	2.04
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	11	2.04
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	11	2.04
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	5	2.03
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	8	2.03
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	8	2.03
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	8	2.03
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	14	2.03
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	14	2.03
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	14	2.03
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	17	2.02
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	5	2.02
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	5	2.02
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	5	2.02
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	26	2.02
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	26	2.02
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	26	2.02
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	29	2.02
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	29	2.02
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	29	2.02
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	25	2.01
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	25	2.01
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	25	2.01
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	10	2.0
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	10	2.0
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	10	2.0
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	23	2.0
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	29	2.0
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	29	2.0
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	29	2.0
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	1	2.0
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	23	2.0
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	23	2.0
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	23	2.0
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	30	1.98

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	27	1.98
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	25	1.98
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	25	1.98
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	25	1.98
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	3	1.97
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	3	1.97
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	3	1.97
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	27	1.97
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	27	1.97
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	27	1.97
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	22	1.97
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	22	1.97
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	22	1.97
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	14	1.96
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	7	1.96
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	7	1.96
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	7	1.96
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	14	1.96
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	15	1.96
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	27	1.96
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	27	1.96
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	27	1.96
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	23	1.96
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	23	1.96
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	23	1.96
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	22	1.95
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	30	1.95
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	30	1.95
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	30	1.95
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	2	1.95
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	16	1.95
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	16	1.95
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	16	1.95
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	14	1.95
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	14	1.95
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	14	1.95
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	22	1.95
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	22	1.95
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	22	1.95
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	7	1.94
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	8	1.94
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	29	1.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	29	1.94
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	29	1.94
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	5	1.94
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	5	1.94
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	5	1.94
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	27	1.94
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	27	1.94
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	27	1.94
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	21	1.93
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	21	1.93
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	21	1.93
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	25	1.93
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	25	1.93
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	25	1.93
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	22	1.92
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	22	1.92
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	22	1.92
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	22	1.92
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	22	1.92
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	22	1.92
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	22	1.92
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	22	1.92
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	22	1.92
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	9	1.92
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	20	1.92
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	30	1.91
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	19	1.91
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	19	1.91
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	19	1.91
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	12	1.9
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	12	1.9
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	12	1.9
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	13	1.9
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	13	1.9
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	13	1.9
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	12	1.89
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	24	1.89
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	24	1.89
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	24	1.89
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	24	1.89
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	24	1.89
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	24	1.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	24	1.89
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	24	1.89
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	24	1.89
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	2	1.88
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	2	1.88
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	2	1.88
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	17	1.88
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	17	1.88
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	17	1.88
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	25	1.88
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	25	1.88
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	25	1.88
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	27	1.87
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	27	1.87
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	27	1.87
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	23	1.87
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	23	1.87
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	23	1.87
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	10	1.86
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	26	1.86
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	23	1.86
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	23	1.86
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	23	1.86
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	5	1.86
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	12	1.86
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	20	1.86
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	20	1.86
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	20	1.86
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	28	1.85
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	20	1.85
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	20	1.85
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	20	1.85
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	9	1.85
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	9	1.85
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	9	1.85
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	20	1.84
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	20	1.84
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	20	1.84
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	26	1.84
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	26	1.84
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	26	1.84
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	15	1.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	24	1.83
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	24	1.83
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	24	1.83
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	6	1.83
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	28	1.82
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	28	1.82
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	28	1.82
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	1	1.82
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	1	1.82
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	1	1.82
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	9	1.82
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	9	1.82
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	9	1.82
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	25	1.82
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	21	1.82
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	13	1.81
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	13	1.81
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	13	1.81
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	5	1.81
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	5	1.81
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	5	1.81
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	15	1.8
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	8	1.8
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	8	1.8
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	8	1.8
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	3	1.8
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	28	1.79
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	24	1.79
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	22	1.79
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	22	1.79
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	22	1.79
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	25	1.79
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	25	1.79
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	25	1.79
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	27	1.79
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	27	1.79
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	27	1.79
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	22	1.78
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	13	1.78
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	13	1.78
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	13	1.78
(2,17)	1:17:A:MET:HG3	1:22:A:CYS:HB3	20	1.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,243)	1:42:A:THR:HB	1:47:A:ARG:HB3	14	1.77
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	4	1.77
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	26	1.77
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	26	1.77
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	26	1.77
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	2	1.77
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	2	1.77
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	2	1.77
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	20	1.76
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	20	1.76
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	20	1.76
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	29	1.76
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	9	1.76
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	13	1.76
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	18	1.76
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	18	1.76
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	18	1.76
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	18	1.76
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	18	1.76
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	18	1.76
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	18	1.76
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	18	1.76
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	18	1.76
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	14	1.75
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	14	1.75
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	14	1.75
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	6	1.75
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	7	1.75
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	7	1.75
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	7	1.75
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	7	1.75
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	16	1.74
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	25	1.74
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	4	1.74
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	4	1.74
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	4	1.74
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	17	1.74
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	17	1.74
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	17	1.74
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	22	1.74
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	22	1.74
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	22	1.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	16	1.73
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	17	1.73
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	17	1.73
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	17	1.73
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	3	1.73
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	3	1.73
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	3	1.73
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	10	1.72
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	10	1.72
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	10	1.72
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG21	22	1.72
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG22	22	1.72
(1,371)	1:11:A:GLN:H	1:50:A:VAL:HG23	22	1.72
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	2	1.71
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	24	1.71
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	26	1.71
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	6	1.7
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	2	1.7
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	19	1.7
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	23	1.69
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	1	1.69
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	8	1.68
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	8	1.68
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	8	1.68
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	28	1.68
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	9	1.67
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	24	1.67
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	23	1.67
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	29	1.67
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	29	1.67
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	29	1.67
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	10	1.66
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	9	1.66
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	21	1.65
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	21	1.65
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	21	1.65
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	29	1.65
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	29	1.65
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	29	1.65
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	19	1.65
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	12	1.65
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	17	1.65

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	1	1.65
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	1	1.65
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	1	1.65
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	17	1.65
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	17	1.65
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	17	1.65
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	8	1.65
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	8	1.65
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	8	1.65
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	18	1.64
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	17	1.64
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	9	1.64
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	9	1.64
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	9	1.64
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	23	1.64
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	23	1.64
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	23	1.64
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	4	1.63
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	10	1.63
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	10	1.63
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	10	1.63
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	17	1.63
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	17	1.63
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	17	1.63
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	8	1.62
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	8	1.62
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	8	1.62
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	11	1.62
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	11	1.62
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	11	1.62
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	12	1.61
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	12	1.61
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	12	1.61
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	4	1.61
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	21	1.61
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	21	1.61
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	21	1.61
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	8	1.6
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	4	1.59
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	4	1.59
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	4	1.59
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	26	1.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	26	1.59
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	26	1.59
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	22	1.59
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	22	1.59
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	22	1.59
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	2	1.59
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	2	1.59
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	2	1.59
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	17	1.58
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	20	1.57
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	20	1.57
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	20	1.57
(1,184)	1:30:A:LEU:HD11	1:62:A:ILE:HA	7	1.57
(1,184)	1:30:A:LEU:HD12	1:62:A:ILE:HA	7	1.57
(1,184)	1:30:A:LEU:HD13	1:62:A:ILE:HA	7	1.57
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	5	1.57
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	24	1.57
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	24	1.57
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	24	1.57
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	5	1.57
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	5	1.57
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	5	1.57
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	19	1.57
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	19	1.57
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	19	1.57
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	1	1.56
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	9	1.56
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	9	1.56
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	9	1.56
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	12	1.55
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	12	1.55
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	12	1.55
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	27	1.55
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	15	1.55
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	15	1.55
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	15	1.55
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	16	1.55
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	16	1.55
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	16	1.55
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	21	1.55
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	21	1.55
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	21	1.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	21	1.55
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	20	1.54
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	20	1.54
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	20	1.54
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	7	1.54
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	7	1.54
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	7	1.54
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	25	1.54
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	29	1.54
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	29	1.54
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	29	1.54
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	29	1.54
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	29	1.54
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	29	1.54
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	29	1.54
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	29	1.54
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	29	1.54
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	19	1.53
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	19	1.53
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	19	1.53
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	29	1.53
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	27	1.53
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	20	1.52
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	1	1.52
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	12	1.52
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	2	1.51
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	2	1.51
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	2	1.51
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	5	1.51
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	5	1.51
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	5	1.51
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	27	1.51
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	21	1.51
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	21	1.51
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	21	1.51
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	23	1.51
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	15	1.51
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	25	1.5
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	19	1.5
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	19	1.5
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	19	1.5
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	9	1.5

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	9	1.5
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	9	1.5
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	4	1.5
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	4	1.5
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	4	1.5
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	1	1.49
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	1	1.49
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	1	1.49
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	14	1.49
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	8	1.49
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	8	1.49
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	8	1.49
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	22	1.49
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	21	1.49
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	16	1.48
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	16	1.48
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	16	1.48
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	5	1.48
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	5	1.48
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	5	1.48
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	22	1.48
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	22	1.48
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	22	1.48
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	30	1.48
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	30	1.48
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	30	1.48
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	18	1.48
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	18	1.48
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	18	1.48
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	26	1.48
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	26	1.48
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	26	1.48
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	27	1.48
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	27	1.48
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	27	1.48
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	26	1.47
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	18	1.47
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	3	1.47
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	16	1.47
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	16	1.47
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	16	1.47
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	13	1.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	13	1.46
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	13	1.46
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	8	1.46
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	8	1.46
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	8	1.46
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	16	1.46
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	16	1.46
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	16	1.46
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	23	1.46
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	2	1.46
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	2	1.46
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	2	1.46
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	24	1.46
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	24	1.46
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	24	1.46
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	28	1.46
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	28	1.46
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	28	1.46
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	14	1.46
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	19	1.46
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	19	1.46
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	19	1.46
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	14	1.46
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	14	1.46
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	14	1.46
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	20	1.46
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	26	1.46
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	26	1.46
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	26	1.46
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	17	1.45
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	17	1.45
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	17	1.45
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	13	1.45
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	13	1.45
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	13	1.45
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	26	1.45
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	26	1.45
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	26	1.45
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	29	1.45
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	29	1.45
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	29	1.45
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	27	1.45

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	29	1.45
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	24	1.45
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	24	1.45
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	24	1.45
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	24	1.45
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	1	1.44
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	26	1.44
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	26	1.44
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	26	1.44
(1,243)	1:42:A:THR:HB	1:47:A:ARG:HB3	1	1.44
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	23	1.44
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	23	1.44
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	23	1.44
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	28	1.44
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	28	1.44
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	28	1.44
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	21	1.44
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	27	1.44
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	23	1.44
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	23	1.44
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	23	1.44
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	15	1.44
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	15	1.44
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	15	1.44
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	13	1.44
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	13	1.44
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	13	1.44
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	13	1.44
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	13	1.44
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	13	1.44
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	13	1.44
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	13	1.44
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	13	1.44
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	16	1.44
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	16	1.44
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	16	1.44
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	14	1.43
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	23	1.43
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	23	1.43
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	23	1.43
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	14	1.43
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	15	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	2	1.43
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	10	1.43
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	10	1.43
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	10	1.43
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	1	1.43
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	1	1.43
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	1	1.43
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	3	1.43
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	3	1.43
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	3	1.43
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	6	1.42
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	6	1.42
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	6	1.42
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	12	1.42
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	12	1.42
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	12	1.42
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	19	1.42
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	8	1.42
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	8	1.42
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	8	1.42
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	1	1.41
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	1	1.41
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	1	1.41
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	30	1.41
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	5	1.41
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	5	1.41
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	5	1.41
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	13	1.41
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	13	1.41
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	13	1.41
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	28	1.41
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	22	1.41
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	22	1.41
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	22	1.41
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	15	1.4
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	15	1.4
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	15	1.4
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	24	1.4
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	24	1.4
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	24	1.4
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	9	1.4
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	18	1.4

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	18	1.4
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	18	1.4
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	21	1.4
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	29	1.4
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	29	1.4
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	29	1.4
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	26	1.4
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	26	1.4
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	26	1.4
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	18	1.4
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	5	1.39
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	20	1.39
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	20	1.39
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	20	1.39
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	29	1.39
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	29	1.39
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	29	1.39
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG21	1	1.39
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG22	1	1.39
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG23	1	1.39
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG21	1	1.39
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG22	1	1.39
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG23	1	1.39
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG21	1	1.39
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG22	1	1.39
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG23	1	1.39
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	9	1.39
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	5	1.39
(3,13)	1:15:A:GLY:H	1:72:A:THR:O	14	1.38
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	25	1.38
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	25	1.38
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	25	1.38
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	21	1.38
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	17	1.38
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	2	1.38
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	2	1.38
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	2	1.38
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	19	1.38
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	19	1.38
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	19	1.38
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	10	1.38
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	10	1.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	10	1.38
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	22	1.38
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	22	1.38
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	22	1.38
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	22	1.38
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	10	1.38
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	10	1.38
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	10	1.38
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	23	1.37
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	23	1.37
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	23	1.37
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	23	1.37
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	23	1.37
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	23	1.37
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	12	1.37
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD11	3	1.37
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD12	3	1.37
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD13	3	1.37
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD11	3	1.37
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD12	3	1.37
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD13	3	1.37
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD11	3	1.37
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD12	3	1.37
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD13	3	1.37
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	18	1.37
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	18	1.37
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	18	1.37
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	18	1.37
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	1	1.36
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	10	1.36
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	10	1.36
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	10	1.36
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	12	1.36
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	12	1.36
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	12	1.36
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	10	1.36
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	22	1.36
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	22	1.36
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	22	1.36
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	11	1.36
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	26	1.36
(3,14)	1:15:A:GLY:N	1:72:A:THR:O	14	1.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	4	1.35
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	18	1.35
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	18	1.35
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	18	1.35
(2,17)	1:17:A:MET:HG3	1:22:A:CYS:HB3	14	1.35
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	17	1.35
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	17	1.35
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	17	1.35
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD11	1	1.35
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD12	1	1.35
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD13	1	1.35
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD11	1	1.35
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD12	1	1.35
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD13	1	1.35
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD11	1	1.35
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD12	1	1.35
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD13	1	1.35
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	27	1.35
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	12	1.35
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	9	1.35
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	29	1.35
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	12	1.35
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	12	1.35
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	12	1.35
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	15	1.34
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	13	1.34
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	13	1.34
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	13	1.34
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	28	1.34
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	16	1.34
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	16	1.34
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	16	1.34
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	23	1.34
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	23	1.34
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	23	1.34
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	4	1.33
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	4	1.33
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	4	1.33
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	7	1.33
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	30	1.33
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	1	1.33
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	23	1.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	9	1.32
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	9	1.32
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	9	1.32
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	29	1.32
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	20	1.32
(1,189)	1:30:A:LEU:HD21	1:50:A:VAL:HG11	29	1.32
(1,189)	1:30:A:LEU:HD21	1:50:A:VAL:HG12	29	1.32
(1,189)	1:30:A:LEU:HD21	1:50:A:VAL:HG13	29	1.32
(1,189)	1:30:A:LEU:HD22	1:50:A:VAL:HG11	29	1.32
(1,189)	1:30:A:LEU:HD22	1:50:A:VAL:HG12	29	1.32
(1,189)	1:30:A:LEU:HD22	1:50:A:VAL:HG13	29	1.32
(1,189)	1:30:A:LEU:HD23	1:50:A:VAL:HG11	29	1.32
(1,189)	1:30:A:LEU:HD23	1:50:A:VAL:HG12	29	1.32
(1,189)	1:30:A:LEU:HD23	1:50:A:VAL:HG13	29	1.32
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	6	1.32
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	14	1.32
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	5	1.32
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	5	1.32
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	5	1.32
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	19	1.32
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	19	1.32
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	19	1.32
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	20	1.32
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	20	1.32
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	20	1.32
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	27	1.31
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	27	1.31
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	27	1.31
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	30	1.31
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	30	1.31
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	30	1.31
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	4	1.31
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	4	1.31
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	4	1.31
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	5	1.31
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	5	1.31
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	5	1.31
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	25	1.31
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	21	1.3
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	21	1.3
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	21	1.3
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	21	1.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	12	1.3
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	12	1.3
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	12	1.3
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	20	1.3
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	8	1.3
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	8	1.3
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	8	1.3
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	12	1.3
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	12	1.3
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	12	1.3
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	14	1.3
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	14	1.3
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	14	1.3
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	1	1.3
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	1	1.3
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	1	1.3
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	28	1.29
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	10	1.29
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	10	1.29
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	10	1.29
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	27	1.29
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	27	1.29
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	27	1.29
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	14	1.29
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	14	1.29
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	14	1.29
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	22	1.29
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	22	1.29
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	22	1.29
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	28	1.29
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	28	1.29
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	28	1.29
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	2	1.29
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	2	1.29
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	2	1.29
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	10	1.29
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	14	1.29
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	28	1.29
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	2	1.29
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	2	1.29
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	2	1.29
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	2	1.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	10	1.28
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	26	1.28
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	7	1.28
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	7	1.28
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	7	1.28
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	30	1.28
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	30	1.28
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	30	1.28
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	30	1.28
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	26	1.28
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	26	1.28
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	26	1.28
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	10	1.28
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	10	1.28
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	10	1.28
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	10	1.28
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	10	1.28
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	10	1.28
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	10	1.28
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	10	1.28
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	10	1.28
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	17	1.28
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	17	1.28
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	17	1.28
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	13	1.27
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	6	1.27
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	6	1.27
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	6	1.27
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	1	1.27
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	1	1.27
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	1	1.27
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	22	1.27
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	22	1.27
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	22	1.27
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	22	1.27
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	22	1.27
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	22	1.27
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	22	1.27
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	22	1.27
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	22	1.27
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	20	1.26
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	18	1.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	18	1.26
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	18	1.26
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	22	1.26
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	22	1.26
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	22	1.26
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	19	1.26
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	19	1.26
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	19	1.26
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	10	1.26
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	10	1.26
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	10	1.26
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	22	1.26
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	22	1.26
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	22	1.26
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	22	1.26
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	22	1.26
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	22	1.26
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	22	1.26
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	22	1.26
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	22	1.26
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	24	1.26
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	24	1.26
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	24	1.26
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	30	1.26
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	30	1.26
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	30	1.26
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	19	1.26
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	19	1.26
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	19	1.26
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	25	1.26
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	25	1.26
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	25	1.26
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	28	1.26
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	18	1.26
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	18	1.26
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	18	1.26
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	26	1.25
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	22	1.25
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	22	1.25
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	22	1.25
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	23	1.25
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	23	1.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	23	1.25
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	6	1.25
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	6	1.25
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	6	1.25
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	12	1.25
(1,348)	1:33:A:LEU:HD11	1:62:A:ILE:HG13	29	1.25
(1,348)	1:33:A:LEU:HD12	1:62:A:ILE:HG13	29	1.25
(1,348)	1:33:A:LEU:HD13	1:62:A:ILE:HG13	29	1.25
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	26	1.25
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	26	1.25
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	26	1.25
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	13	1.25
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	13	1.25
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	13	1.25
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	16	1.25
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	16	1.25
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	16	1.25
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	16	1.25
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	27	1.25
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	29	1.25
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	29	1.24
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	8	1.24
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	8	1.24
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	8	1.24
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	22	1.24
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	22	1.24
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	22	1.24
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	27	1.24
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	20	1.24
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	4	1.24
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	30	1.24
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	30	1.24
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	30	1.24
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	3	1.24
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	3	1.24
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	3	1.24
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	11	1.24
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	11	1.24
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	11	1.24
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	2	1.24
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	2	1.24
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	2	1.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	3	1.24
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	3	1.24
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	3	1.24
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	2	1.24
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	4	1.24
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	4	1.24
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	4	1.24
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	21	1.23
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	21	1.23
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	21	1.23
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	25	1.23
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	25	1.23
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	25	1.23
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	3	1.23
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	3	1.23
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	3	1.23
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	13	1.23
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	13	1.23
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	13	1.23
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	1	1.23
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	1	1.23
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	1	1.23
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	27	1.23
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	27	1.23
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	27	1.23
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	21	1.23
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	21	1.23
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	21	1.23
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	24	1.23
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	29	1.23
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	29	1.23
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	29	1.23
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	17	1.23
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	21	1.22
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	18	1.22
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	18	1.22
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	18	1.22
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	28	1.22
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	27	1.22
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	27	1.22
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	27	1.22
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	28	1.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	28	1.22
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	28	1.22
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	14	1.22
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	14	1.22
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	14	1.22
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	27	1.22
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	27	1.22
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	27	1.22
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	15	1.22
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	7	1.22
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	23	1.22
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	7	1.22
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	7	1.22
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	7	1.22
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	13	1.22
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	13	1.22
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	13	1.22
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	2	1.21
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	2	1.21
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	2	1.21
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	26	1.21
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	7	1.21
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	7	1.21
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	7	1.21
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	17	1.21
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	13	1.21
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	13	1.21
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	13	1.21
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	13	1.21
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	13	1.21
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	13	1.21
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	13	1.21
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	13	1.21
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	13	1.21
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	11	1.21
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	11	1.21
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	11	1.21
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	19	1.21
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	19	1.21
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	19	1.21
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG21	3	1.21
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG22	3	1.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG23	3	1.21
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG21	3	1.21
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG22	3	1.21
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG23	3	1.21
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG21	3	1.21
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG22	3	1.21
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG23	3	1.21
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	13	1.21
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	8	1.21
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	6	1.21
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	6	1.21
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	6	1.21
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	29	1.21
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	29	1.21
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	29	1.21
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	4	1.2
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	19	1.2
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	5	1.2
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	5	1.2
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	5	1.2
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	17	1.2
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	17	1.2
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	17	1.2
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	27	1.2
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	27	1.2
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	27	1.2
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG11	10	1.2
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG12	10	1.2
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG13	10	1.2
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	5	1.2
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	5	1.2
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	5	1.2
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	8	1.2
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	3	1.2
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	3	1.2
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	3	1.2
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	21	1.2
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	21	1.2
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	21	1.2
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	11	1.2
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	11	1.2
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	11	1.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	10	1.19
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	10	1.19
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	10	1.19
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	10	1.19
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	11	1.19
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	11	1.19
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	11	1.19
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	7	1.19
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	7	1.19
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	7	1.19
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	4	1.19
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	4	1.19
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	4	1.19
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	4	1.19
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	4	1.19
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	4	1.19
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	4	1.19
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	4	1.19
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	4	1.19
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	24	1.19
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	24	1.19
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	24	1.19
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	24	1.19
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	24	1.19
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	24	1.19
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	24	1.19
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	24	1.19
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	24	1.19
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	10	1.19
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	10	1.19
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	10	1.19
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	26	1.19
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	26	1.19
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	26	1.19
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	11	1.19
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	30	1.19
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	1	1.19
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	1	1.19
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	1	1.19
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	25	1.19
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	25	1.19
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	25	1.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	4	1.18
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	4	1.18
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	4	1.18
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	3	1.18
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	3	1.18
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	3	1.18
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	22	1.18
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	15	1.18
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	14	1.18
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	14	1.18
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	14	1.18
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	7	1.18
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	7	1.18
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	7	1.18
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	22	1.18
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	16	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	12	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	12	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	12	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	19	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	19	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	19	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	20	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	20	1.18
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	20	1.18
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	19	1.17
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	10	1.17
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	5	1.17
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	11	1.17
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	21	1.17
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	14	1.17
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	14	1.17
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	14	1.17
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	18	1.17
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	3	1.17
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	3	1.17
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	3	1.17
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	16	1.17
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	16	1.17
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	16	1.17
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	25	1.17
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	25	1.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	25	1.17
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	24	1.17
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	24	1.17
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	24	1.17
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	30	1.17
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	30	1.17
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	30	1.17
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	8	1.17
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	8	1.17
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	8	1.17
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	15	1.17
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	15	1.17
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	15	1.17
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	21	1.17
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	21	1.17
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	21	1.17
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	14	1.16
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	14	1.16
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	14	1.16
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	9	1.16
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	8	1.16
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	28	1.16
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	28	1.16
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	28	1.16
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	20	1.16
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	20	1.16
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	20	1.16
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	28	1.16
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	28	1.16
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	28	1.16
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	7	1.16
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	7	1.16
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	7	1.16
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG21	24	1.16
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG22	24	1.16
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG23	24	1.16
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG21	24	1.16
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG22	24	1.16
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG23	24	1.16
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG21	24	1.16
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG22	24	1.16
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG23	24	1.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	29	1.16
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	20	1.16
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	26	1.16
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	26	1.16
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	26	1.16
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	17	1.15
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	22	1.15
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	22	1.15
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	22	1.15
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	16	1.15
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	16	1.15
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	16	1.15
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	20	1.15
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	20	1.15
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	20	1.15
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	3	1.15
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	8	1.15
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	8	1.15
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	8	1.15
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	12	1.15
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	12	1.15
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	12	1.15
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	7	1.15
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	23	1.15
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	23	1.15
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	23	1.15
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	4	1.14
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	25	1.14
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	25	1.14
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	25	1.14
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	27	1.14
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	27	1.14
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	27	1.14
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	29	1.14
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	29	1.14
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	29	1.14
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	22	1.14
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	16	1.14
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	16	1.14
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	16	1.14
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	16	1.14
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	16	1.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	16	1.14
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	16	1.14
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	16	1.14
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	16	1.14
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	17	1.14
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	17	1.14
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	17	1.14
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	8	1.14
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	8	1.14
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	8	1.14
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	25	1.14
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	25	1.14
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	25	1.14
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	4	1.13
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	23	1.13
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	3	1.13
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	3	1.13
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	3	1.13
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	27	1.13
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	9	1.13
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	10	1.13
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	10	1.13
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	10	1.13
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	12	1.13
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	12	1.13
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	12	1.13
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	9	1.13
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	9	1.13
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	9	1.13
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	12	1.13
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	18	1.13
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	18	1.13
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	18	1.13
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	1	1.13
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	14	1.13
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	14	1.13
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	14	1.13
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	30	1.13
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	30	1.13
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	30	1.13
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	5	1.12
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	5	1.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	5	1.12
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	25	1.12
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	24	1.12
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	24	1.12
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	24	1.12
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	21	1.12
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	28	1.12
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	28	1.12
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	28	1.12
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	28	1.12
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	28	1.12
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	28	1.12
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	28	1.12
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	28	1.12
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	28	1.12
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	4	1.12
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	1	1.12
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	1	1.12
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	1	1.12
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	11	1.12
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	11	1.12
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	11	1.12
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	14	1.12
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	4	1.12
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	4	1.12
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	4	1.12
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	26	1.12
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	26	1.12
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	26	1.12
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	14	1.12
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	14	1.12
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	14	1.12
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	28	1.12
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	28	1.12
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	28	1.12
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	2	1.11
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	23	1.11
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	7	1.11
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	7	1.11
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	7	1.11
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	3	1.11
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	3	1.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	3	1.11
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	6	1.11
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	4	1.11
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	25	1.11
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	25	1.11
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	25	1.11
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG11	13	1.11
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG12	13	1.11
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG13	13	1.11
(1,184)	1:30:A:LEU:HD11	1:62:A:ILE:HA	29	1.11
(1,184)	1:30:A:LEU:HD12	1:62:A:ILE:HA	29	1.11
(1,184)	1:30:A:LEU:HD13	1:62:A:ILE:HA	29	1.11
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	2	1.11
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	2	1.11
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	2	1.11
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	2	1.11
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	2	1.11
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	2	1.11
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	13	1.11
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	13	1.11
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	13	1.11
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	5	1.11
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	5	1.11
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	5	1.11
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	6	1.1
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	7	1.1
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	1	1.1
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	1	1.1
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	1	1.1
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	18	1.1
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	15	1.1
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	15	1.1
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	15	1.1
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	24	1.1
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	2	1.1
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	2	1.1
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	2	1.1
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	21	1.1
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	21	1.1
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	21	1.1
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	3	1.1
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	3	1.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	3	1.1
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	20	1.1
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	11	1.09
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	11	1.09
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	11	1.09
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	28	1.09
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	19	1.09
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	13	1.09
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	15	1.09
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	6	1.09
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	20	1.09
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	20	1.09
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	20	1.09
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	19	1.09
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	9	1.09
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	9	1.09
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	9	1.09
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	24	1.09
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	24	1.09
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	24	1.09
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	29	1.08
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	16	1.08
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	3	1.08
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	29	1.08
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	23	1.08
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	23	1.08
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	23	1.08
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	26	1.08
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	26	1.08
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	26	1.08
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	15	1.08
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	15	1.08
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	15	1.08
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	24	1.08
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	24	1.08
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	24	1.08
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	4	1.08
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	4	1.08
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	4	1.08
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	8	1.08
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	8	1.08
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	8	1.08

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	2	1.08
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	2	1.08
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	2	1.08
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	26	1.08
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	26	1.08
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	26	1.08
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	26	1.08
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	26	1.08
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	26	1.08
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	26	1.08
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	26	1.08
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	26	1.08
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	9	1.08
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	9	1.08
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	9	1.08
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	13	1.08
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	13	1.08
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	13	1.08
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	27	1.08
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	6	1.08
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	22	1.08
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	22	1.08
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	22	1.08
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	8	1.08
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	27	1.08
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	27	1.08
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	27	1.08
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	29	1.07
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	16	1.07
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	16	1.07
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	16	1.07
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	10	1.07
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	8	1.07
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	4	1.07
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	4	1.07
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	4	1.07
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	7	1.07
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	7	1.07
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	7	1.07
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	8	1.07
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	8	1.07
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	8	1.07

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	27	1.07
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	27	1.07
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	27	1.07
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	2	1.07
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	17	1.07
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	17	1.07
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	17	1.07
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	17	1.07
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	17	1.07
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	17	1.07
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	17	1.07
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	17	1.07
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	17	1.07
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	15	1.07
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	15	1.07
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	15	1.07
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	28	1.07
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	28	1.07
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	28	1.07
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	12	1.06
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	12	1.06
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	12	1.06
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	16	1.06
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	22	1.06
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	22	1.06
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	22	1.06
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	22	1.06
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	9	1.06
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	9	1.06
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	9	1.06
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	1	1.06
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	1	1.06
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	1	1.06
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	24	1.06
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	11	1.06
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	9	1.06
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	9	1.06
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	9	1.06
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	27	1.06
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	27	1.06
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	27	1.06
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	27	1.06

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	27	1.06
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	27	1.06
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	27	1.06
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	27	1.06
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	27	1.06
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	23	1.06
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	4	1.05
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	8	1.05
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	8	1.05
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	8	1.05
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	2	1.05
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	8	1.05
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	12	1.05
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	2	1.05
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	2	1.05
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	2	1.05
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	5	1.05
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	5	1.05
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	5	1.05
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	5	1.05
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	5	1.05
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	5	1.05
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	5	1.05
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	5	1.05
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	5	1.05
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	26	1.05
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	26	1.05
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	26	1.05
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG21	2	1.05
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG22	2	1.05
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG23	2	1.05
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG21	2	1.05
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG22	2	1.05
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG23	2	1.05
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG21	2	1.05
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG22	2	1.05
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG23	2	1.05
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	6	1.05
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	12	1.05
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	12	1.05
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	12	1.05
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	17	1.05

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	17	1.05
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	17	1.05
(2,36)	1:28:A:ARG:HG3	1:32:A:ARG:HD3	23	1.04
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	24	1.04
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	15	1.04
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	7	1.04
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	7	1.04
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	7	1.04
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	5	1.04
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	5	1.04
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	5	1.04
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	17	1.04
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	17	1.04
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	17	1.04
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	13	1.04
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	24	1.04
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	19	1.04
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	2	1.04
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	2	1.04
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	2	1.04
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	2	1.04
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	2	1.04
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	2	1.04
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	2	1.04
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	2	1.04
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	2	1.04
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	16	1.04
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	2	1.03
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	2	1.03
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	2	1.03
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	26	1.03
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	26	1.03
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	26	1.03
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	29	1.03
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	29	1.03
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	29	1.03
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	27	1.03
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	27	1.03
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	27	1.03
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	16	1.03
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	16	1.03
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	16	1.03

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	1	1.03
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD21	2	1.03
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD22	2	1.03
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD23	2	1.03
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	27	1.03
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	27	1.03
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	27	1.03
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	27	1.03
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	27	1.03
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	27	1.03
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	27	1.03
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	27	1.03
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	27	1.03
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	30	1.03
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	26	1.03
(1,68)	1:57:A:VAL:HA	1:58:A:SER:HB3	27	1.03
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	30	1.03
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	30	1.03
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	30	1.03
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	16	1.03
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	16	1.03
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	16	1.03
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	16	1.03
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	16	1.03
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	16	1.03
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	9	1.02
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	19	1.02
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	19	1.02
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	19	1.02
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	8	1.02
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	15	1.02
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	15	1.02
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	15	1.02
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	15	1.02
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	15	1.02
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	15	1.02
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	15	1.02
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	15	1.02
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	15	1.02
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	25	1.02
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	25	1.02
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	25	1.02

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	25	1.02
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	25	1.02
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	25	1.02
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	25	1.02
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	25	1.02
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	25	1.02
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	9	1.02
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	9	1.02
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	9	1.02
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	3	1.02
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	25	1.02
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	12	1.02
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	12	1.02
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	12	1.02
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	22	1.02
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	22	1.02
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	22	1.02
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	3	1.01
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	3	1.01
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	3	1.01
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	22	1.01
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	22	1.01
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	22	1.01
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	11	1.01
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	19	1.01
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	19	1.01
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	19	1.01
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	19	1.01
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	19	1.01
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	19	1.01
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	19	1.01
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	19	1.01
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	19	1.01
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	23	1.01
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	23	1.01
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	23	1.01
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	23	1.01
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	23	1.01
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	23	1.01
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	23	1.01
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	23	1.01
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	23	1.01

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	4	1.01
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	4	1.01
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	4	1.01
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG21	9	1.01
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG22	9	1.01
(1,16)	1:9:A:THR:HA	1:50:A:VAL:HG23	9	1.01
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	26	1.0
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	17	1.0
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	2	1.0
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	2	1.0
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	2	1.0
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	21	1.0
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	21	1.0
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	21	1.0
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	2	1.0
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	2	1.0
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	2	1.0
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	15	1.0
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	15	1.0
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	15	1.0
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	18	1.0
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	18	1.0
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	18	1.0
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	13	1.0
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	13	1.0
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	13	1.0
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	4	1.0
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	5	1.0
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	5	1.0
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	5	1.0
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	24	1.0
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	24	1.0
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	24	1.0
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	4	0.99
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	12	0.99
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	12	0.99
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	12	0.99
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	19	0.99
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	19	0.99
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	19	0.99
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	5	0.99
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	13	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	12	0.99
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	12	0.99
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	12	0.99
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	1	0.99
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	1	0.99
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	1	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	8	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	8	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	8	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	8	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	8	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	8	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	8	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	8	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	8	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	21	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	21	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	21	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	21	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	21	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	21	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	21	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	21	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	21	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	23	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	23	0.99
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	23	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	23	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	23	0.99
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	23	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	23	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	23	0.99
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	23	0.99
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	20	0.99
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	20	0.99
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	20	0.99
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	25	0.99
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	25	0.99
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	25	0.99
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	10	0.99
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	10	0.99
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	10	0.99

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,130)	1:10:A:GLN:HG3	1:75:A:GLU:HG3	13	0.99
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	30	0.98
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	3	0.98
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	3	0.98
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	3	0.98
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	5	0.98
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	5	0.98
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	5	0.98
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	16	0.98
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	16	0.98
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	16	0.98
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	20	0.98
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	20	0.98
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	20	0.98
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	30	0.98
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	30	0.98
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	30	0.98
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	9	0.98
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	26	0.98
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	26	0.98
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	9	0.98
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	9	0.98
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	9	0.98
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	9	0.98
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	9	0.98
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	9	0.98
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	9	0.98
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	9	0.98
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	9	0.98
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	25	0.97
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	30	0.97
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	30	0.97
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	30	0.97
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	29	0.97
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	29	0.97
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	29	0.97
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	1	0.97
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	1	0.97
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	1	0.97
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	26	0.97
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	9	0.96
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	7	0.96

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	25	0.96
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	13	0.96
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	13	0.96
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	13	0.96
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	17	0.96
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	17	0.96
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	17	0.96
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	28	0.96
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	28	0.96
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	28	0.96
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	13	0.96
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	13	0.96
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	13	0.96
(1,214)	1:62:A:ILE:HG21	1:64:A:GLU:HG3	18	0.96
(1,214)	1:62:A:ILE:HG22	1:64:A:GLU:HG3	18	0.96
(1,214)	1:62:A:ILE:HG23	1:64:A:GLU:HG3	18	0.96
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	30	0.96
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	30	0.96
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	30	0.96
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	7	0.96
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	22	0.96
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	16	0.96
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	16	0.96
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	16	0.96
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	29	0.96
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	29	0.96
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	29	0.96
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	26	0.96
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	26	0.96
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	26	0.96
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	26	0.96
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	26	0.96
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	26	0.96
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	26	0.96
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	26	0.96
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	26	0.96
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	2	0.95
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	16	0.95
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	16	0.95
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	16	0.95
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	16	0.95
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	24	0.95

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	24	0.95
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	24	0.95
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	3	0.95
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	3	0.95
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	3	0.95
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	21	0.95
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	6	0.95
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	6	0.95
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	6	0.95
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	6	0.95
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	6	0.95
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	6	0.95
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	6	0.95
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	6	0.95
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	6	0.95
(1,184)	1:30:A:LEU:HD11	1:62:A:ILE:HA	11	0.95
(1,184)	1:30:A:LEU:HD12	1:62:A:ILE:HA	11	0.95
(1,184)	1:30:A:LEU:HD13	1:62:A:ILE:HA	11	0.95
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG21	21	0.95
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG22	21	0.95
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG23	21	0.95
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG21	21	0.95
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG22	21	0.95
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG23	21	0.95
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG21	21	0.95
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG22	21	0.95
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG23	21	0.95
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	15	0.95
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	15	0.95
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	15	0.95
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	5	0.95
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	5	0.95
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	5	0.95
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	5	0.95
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	5	0.95
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	5	0.95
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	5	0.95
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	5	0.95
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	5	0.95
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	19	0.94
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	19	0.94
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	19	0.94

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	27	0.94
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	6	0.94
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	29	0.94
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	29	0.94
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	29	0.94
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	1	0.94
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	9	0.94
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	9	0.94
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	9	0.94
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	4	0.94
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	4	0.94
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	4	0.94
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	26	0.94
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	26	0.94
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	26	0.94
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	6	0.94
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	6	0.94
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	6	0.94
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG11	27	0.94
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG12	27	0.94
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG13	27	0.94
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	29	0.94
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	29	0.94
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	29	0.94
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	23	0.94
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	20	0.93
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	28	0.93
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	28	0.93
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	28	0.93
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	8	0.93
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	23	0.93
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	24	0.93
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	24	0.93
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	24	0.93
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	24	0.93
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	24	0.93
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	24	0.93
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	4	0.93
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	4	0.93
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	4	0.93
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	4	0.93
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	4	0.93

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	4	0.93
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	4	0.93
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	4	0.93
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	4	0.93
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	9	0.93
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	10	0.93
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	10	0.93
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	10	0.93
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	10	0.93
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	10	0.93
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	10	0.93
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	10	0.93
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	10	0.93
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	10	0.93
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	14	0.93
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	7	0.92
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	7	0.92
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	7	0.92
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	26	0.92
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	29	0.92
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	15	0.92
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	15	0.92
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	15	0.92
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	7	0.92
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	7	0.92
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	7	0.92
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	19	0.92
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	19	0.92
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	19	0.92
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	5	0.92
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	5	0.92
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	5	0.92
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	14	0.92
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	14	0.92
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	14	0.92
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	14	0.92
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	14	0.92
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	14	0.92
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	14	0.92
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	14	0.92
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	14	0.92
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	28	0.92

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	23	0.92
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	10	0.92
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	14	0.92
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	14	0.92
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	14	0.92
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	8	0.92
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	8	0.92
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	8	0.92
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	8	0.92
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	8	0.92
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	8	0.92
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	8	0.92
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	8	0.92
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	8	0.92
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	17	0.92
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	17	0.92
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	17	0.92
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	17	0.92
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	17	0.92
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	17	0.92
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	17	0.92
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	17	0.92
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	17	0.92
(2,36)	1:28:A:ARG:HG3	1:32:A:ARG:HD3	15	0.91
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	16	0.91
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	16	0.91
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	16	0.91
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	11	0.91
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	11	0.91
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	11	0.91
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	1	0.91
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	1	0.91
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	1	0.91
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	26	0.91
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	8	0.91
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	8	0.91
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	8	0.91
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	17	0.91
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	17	0.91
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	17	0.91
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	24	0.9
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	8	0.9

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	15	0.9
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	15	0.9
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	15	0.9
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	23	0.9
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	23	0.9
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	23	0.9
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	19	0.9
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	19	0.9
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	19	0.9
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	24	0.9
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	24	0.9
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	24	0.9
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG21	7	0.9
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG22	7	0.9
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG23	7	0.9
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG21	7	0.9
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG22	7	0.9
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG23	7	0.9
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG21	7	0.9
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG22	7	0.9
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG23	7	0.9
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	13	0.9
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	3	0.9
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	25	0.9
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	25	0.9
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	25	0.9
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	7	0.9
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	7	0.9
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	7	0.9
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	6	0.89
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	6	0.89
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	6	0.89
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	1	0.89
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	17	0.89
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	17	0.89
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	17	0.89
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	29	0.89
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	29	0.89
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	29	0.89
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	18	0.89
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	18	0.89
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	18	0.89

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	10	0.89
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	10	0.89
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	10	0.89
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	22	0.89
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	22	0.89
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	22	0.89
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	15	0.89
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	15	0.89
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	15	0.89
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	18	0.89
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	18	0.89
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	18	0.89
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	22	0.89
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	22	0.89
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	22	0.89
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	3	0.89
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	3	0.89
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	3	0.89
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	29	0.89
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	29	0.89
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	29	0.89
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	17	0.89
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	16	0.89
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	16	0.89
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	16	0.89
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	11	0.89
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	11	0.89
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	11	0.89
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	11	0.89
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	11	0.89
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	11	0.89
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	5	0.88
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	11	0.88
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	11	0.88
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	11	0.88
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	15	0.88
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	15	0.88
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	15	0.88
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	14	0.88
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	1	0.88
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	1	0.88
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	1	0.88

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	26	0.88
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	26	0.88
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	26	0.88
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	29	0.88
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	29	0.88
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	29	0.88
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	29	0.88
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	29	0.88
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	29	0.88
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	29	0.88
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	29	0.88
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	29	0.88
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	19	0.88
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	19	0.88
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	19	0.88
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	16	0.88
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	16	0.88
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	16	0.88
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	20	0.88
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	20	0.88
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	20	0.88
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	20	0.88
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	20	0.88
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	20	0.88
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	20	0.88
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	20	0.88
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	20	0.88
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	3	0.88
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	3	0.88
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	3	0.88
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	19	0.87
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	30	0.87
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	23	0.87
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	23	0.87
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	23	0.87
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	3	0.87
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	3	0.87
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	3	0.87
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	24	0.87
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	24	0.87
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	24	0.87
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	22	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	22	0.87
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	22	0.87
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	21	0.87
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	21	0.87
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	21	0.87
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	10	0.87
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	10	0.87
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	10	0.87
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	24	0.87
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	24	0.87
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	24	0.87
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	30	0.87
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	30	0.87
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	30	0.87
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	9	0.87
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	9	0.87
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	9	0.87
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	9	0.87
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	9	0.87
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	9	0.87
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	9	0.87
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	9	0.87
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	9	0.87
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	24	0.87
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	24	0.87
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	24	0.87
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	24	0.87
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	24	0.87
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	24	0.87
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	24	0.87
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	24	0.87
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	24	0.87
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	9	0.87
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	9	0.87
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	9	0.87
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	9	0.87
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	9	0.87
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	9	0.87
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	9	0.87
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	9	0.87
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	9	0.87
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	4	0.87

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	4	0.87
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	4	0.87
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	17	0.87
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	17	0.87
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	17	0.87
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	6	0.87
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	6	0.87
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	6	0.87
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	13	0.87
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	13	0.87
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	13	0.87
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	23	0.87
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	23	0.87
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	23	0.87
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	23	0.87
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	23	0.87
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	23	0.87
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	3	0.87
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	3	0.87
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	3	0.87
(2,36)	1:28:A:ARG:HG3	1:32:A:ARG:HD3	26	0.86
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	21	0.86
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	7	0.86
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	30	0.86
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	14	0.86
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	14	0.86
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	14	0.86
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	17	0.86
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	17	0.86
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	20	0.86
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	30	0.86
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	30	0.86
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	30	0.86
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	30	0.86
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	30	0.86
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	30	0.86
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	30	0.86
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	30	0.86
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	30	0.86
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	20	0.86
(1,227)	1:62:A:ILE:HD11	1:75:A:GLU:HG3	2	0.86
(1,227)	1:62:A:ILE:HD12	1:75:A:GLU:HG3	2	0.86

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,227)	1:62:A:ILE:HD13	1:75:A:GLU:HG3	2	0.86
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	20	0.85
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	27	0.85
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	15	0.85
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	24	0.85
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	24	0.85
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	24	0.85
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	23	0.85
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	23	0.85
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	23	0.85
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	18	0.85
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	11	0.85
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	11	0.85
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	11	0.85
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	30	0.85
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	30	0.85
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	30	0.85
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	3	0.85
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	13	0.85
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	15	0.85
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	28	0.85
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	28	0.85
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	28	0.85
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	18	0.85
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	18	0.85
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	18	0.85
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	18	0.85
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	18	0.85
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	18	0.85
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	26	0.84
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	10	0.84
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	10	0.84
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	10	0.84
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	1	0.84
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	1	0.84
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	1	0.84
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	19	0.84
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	13	0.84
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	13	0.84
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	13	0.84
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	4	0.84
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	20	0.84

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	20	0.84
(1,237)	1:60:A:ILE:HD11	1:63:A:GLN:HB3	27	0.84
(1,237)	1:60:A:ILE:HD12	1:63:A:GLN:HB3	27	0.84
(1,237)	1:60:A:ILE:HD13	1:63:A:GLN:HB3	27	0.84
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	1	0.84
(1,83)	1:36:A:VAL:HG11	1:52:A:TYR:HB3	29	0.84
(1,83)	1:36:A:VAL:HG12	1:52:A:TYR:HB3	29	0.84
(1,83)	1:36:A:VAL:HG13	1:52:A:TYR:HB3	29	0.84
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	29	0.84
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	29	0.84
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	29	0.84
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	29	0.84
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	29	0.84
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	29	0.84
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	21	0.83
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	14	0.83
(1,543)	1:13:A:GLN:H	1:47:A:ARG:HB3	1	0.83
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	9	0.83
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	17	0.83
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	17	0.83
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	17	0.83
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	5	0.83
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	5	0.83
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	5	0.83
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	14	0.83
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	29	0.83
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	12	0.83
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	14	0.83
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	14	0.83
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	14	0.83
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	3	0.83
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	3	0.83
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	3	0.83
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	3	0.83
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	3	0.83
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	3	0.83
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	19	0.83
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	26	0.83
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	26	0.83
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	26	0.83
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	30	0.82
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	17	0.82

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	17	0.82
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	17	0.82
(1,359)	1:7:A:LEU:HD11	1:52:A:TYR:H	21	0.82
(1,359)	1:7:A:LEU:HD12	1:52:A:TYR:H	21	0.82
(1,359)	1:7:A:LEU:HD13	1:52:A:TYR:H	21	0.82
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	8	0.82
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	8	0.82
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	8	0.82
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	18	0.82
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	18	0.82
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	18	0.82
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	3	0.82
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	3	0.82
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	3	0.82
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	3	0.82
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	3	0.82
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	3	0.82
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	3	0.82
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	3	0.82
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	3	0.82
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	25	0.82
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	21	0.82
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	21	0.82
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	21	0.82
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	21	0.82
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	21	0.82
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	21	0.82
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	21	0.82
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	21	0.82
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	21	0.82
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	21	0.82
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	1	0.81
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	1	0.81
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	1	0.81
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	23	0.81
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	23	0.81
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	23	0.81
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	25	0.81
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	25	0.81
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	25	0.81
(1,237)	1:60:A:ILE:HD11	1:63:A:GLN:HB3	4	0.81
(1,237)	1:60:A:ILE:HD12	1:63:A:GLN:HB3	4	0.81

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,237)	1:60:A:ILE:HD13	1:63:A:GLN:HB3	4	0.81
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	1	0.81
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	1	0.81
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	1	0.81
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	1	0.81
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	1	0.81
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	1	0.81
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	1	0.81
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	1	0.81
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	1	0.81
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	16	0.81
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	15	0.81
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	15	0.81
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	15	0.81
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	15	0.81
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	15	0.81
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	15	0.81
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	28	0.81
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	28	0.81
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	28	0.81
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	28	0.81
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	28	0.81
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	28	0.81
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	28	0.81
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	28	0.81
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	28	0.81
(1,45)	1:36:A:VAL:HG21	1:39:A:ALA:HB1	7	0.81
(1,45)	1:36:A:VAL:HG21	1:39:A:ALA:HB2	7	0.81
(1,45)	1:36:A:VAL:HG21	1:39:A:ALA:HB3	7	0.81
(1,45)	1:36:A:VAL:HG22	1:39:A:ALA:HB1	7	0.81
(1,45)	1:36:A:VAL:HG22	1:39:A:ALA:HB2	7	0.81
(1,45)	1:36:A:VAL:HG22	1:39:A:ALA:HB3	7	0.81
(1,45)	1:36:A:VAL:HG23	1:39:A:ALA:HB1	7	0.81
(1,45)	1:36:A:VAL:HG23	1:39:A:ALA:HB2	7	0.81
(1,45)	1:36:A:VAL:HG23	1:39:A:ALA:HB3	7	0.81
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	18	0.8
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	5	0.8
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	4	0.8
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	4	0.8
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	4	0.8
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	29	0.8
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	29	0.8

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	29	0.8
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	18	0.8
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	14	0.8
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	14	0.8
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	14	0.8
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	2	0.8
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	21	0.8
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	21	0.8
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	21	0.8
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	14	0.8
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	14	0.8
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD11	2	0.8
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD12	2	0.8
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD13	2	0.8
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD11	2	0.8
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD12	2	0.8
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD13	2	0.8
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD11	2	0.8
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD12	2	0.8
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD13	2	0.8
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	8	0.8
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	1	0.79
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	1	0.79
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	1	0.79
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	3	0.79
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	3	0.79
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	3	0.79
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	6	0.79
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	6	0.79
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	6	0.79
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	27	0.79
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	27	0.79
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	27	0.79
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	7	0.79
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	16	0.79
(1,130)	1:10:A:GLN:HG3	1:75:A:GLU:HG3	25	0.79
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	16	0.79
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	16	0.79
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	16	0.79
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	16	0.79
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	16	0.79
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	16	0.79

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	16	0.79
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	16	0.79
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	16	0.79
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	23	0.79
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	23	0.79
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	23	0.79
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	11	0.78
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	21	0.78
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	1	0.78
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	1	0.78
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	1	0.78
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	14	0.78
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	23	0.78
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	9	0.78
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	9	0.78
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	9	0.78
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	30	0.78
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	30	0.78
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	30	0.78
(1,403)	1:33:A:LEU:HD21	1:34:A:LYS:H	24	0.78
(1,403)	1:33:A:LEU:HD22	1:34:A:LYS:H	24	0.78
(1,403)	1:33:A:LEU:HD23	1:34:A:LYS:H	24	0.78
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	14	0.78
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	14	0.78
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	14	0.78
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	5	0.78
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	27	0.78
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	20	0.77
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	20	0.77
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	20	0.77
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD11	29	0.77
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD12	29	0.77
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD13	29	0.77
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	19	0.77
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	19	0.77
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	19	0.77
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	19	0.77
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	19	0.77
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	19	0.77
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	19	0.77
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	19	0.77
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	19	0.77

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	19	0.77
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	29	0.77
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	29	0.77
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	29	0.77
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	4	0.77
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	4	0.77
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	4	0.77
(1,348)	1:33:A:LEU:HD11	1:62:A:ILE:HG13	24	0.77
(1,348)	1:33:A:LEU:HD12	1:62:A:ILE:HG13	24	0.77
(1,348)	1:33:A:LEU:HD13	1:62:A:ILE:HG13	24	0.77
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG11	9	0.77
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG12	9	0.77
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG13	9	0.77
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	18	0.77
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	18	0.77
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	18	0.77
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	18	0.77
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	18	0.77
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	18	0.77
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	18	0.77
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	18	0.77
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	18	0.77
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	3	0.77
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	19	0.77
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	19	0.77
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	19	0.77
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	19	0.77
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	19	0.77
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	19	0.77
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	19	0.77
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	19	0.77
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	19	0.77
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	12	0.77
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	12	0.77
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	12	0.77
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	6	0.76
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	17	0.76
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	11	0.76
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	16	0.76
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	16	0.76
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	16	0.76
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	20	0.75

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	14	0.75
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG21	30	0.75
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG22	30	0.75
(2,52)	1:12:A:MET:H	1:50:A:VAL:HG23	30	0.75
(2,36)	1:28:A:ARG:HG3	1:32:A:ARG:HD3	29	0.75
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	20	0.75
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	25	0.75
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	9	0.75
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	26	0.75
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	26	0.75
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	26	0.75
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	3	0.75
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	9	0.75
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	9	0.75
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	9	0.75
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	9	0.75
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	6	0.75
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	6	0.75
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	6	0.75
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	2	0.75
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	21	0.75
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	21	0.75
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	21	0.75
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	11	0.75
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	11	0.75
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	11	0.75
(2,19)	1:17:A:MET:HG3	1:26:A:ILE:HD11	14	0.74
(2,19)	1:17:A:MET:HG3	1:26:A:ILE:HD12	14	0.74
(2,19)	1:17:A:MET:HG3	1:26:A:ILE:HD13	14	0.74
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	8	0.74
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	8	0.74
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	8	0.74
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	28	0.74
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	5	0.74
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	5	0.74
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	5	0.74
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	17	0.74
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	17	0.74
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	17	0.74
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	27	0.74
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	27	0.74
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	27	0.74

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	12	0.74
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	12	0.74
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	12	0.74
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	29	0.74
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	25	0.74
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	25	0.74
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	25	0.74
(1,237)	1:60:A:ILE:HD11	1:63:A:GLN:HB3	30	0.74
(1,237)	1:60:A:ILE:HD12	1:63:A:GLN:HB3	30	0.74
(1,237)	1:60:A:ILE:HD13	1:63:A:GLN:HB3	30	0.74
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	7	0.74
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	7	0.74
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	7	0.74
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	7	0.74
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	7	0.74
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	7	0.74
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	7	0.74
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	7	0.74
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	7	0.74
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	27	0.74
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	27	0.74
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	27	0.74
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	22	0.73
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	22	0.73
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	22	0.73
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD11	2	0.73
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD12	2	0.73
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD13	2	0.73
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD11	17	0.73
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD12	17	0.73
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD13	17	0.73
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	13	0.73
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	18	0.73
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	16	0.73
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	16	0.73
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	16	0.73
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	18	0.73
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	18	0.73
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	18	0.73
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	19	0.73
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	19	0.73
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	19	0.73

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	25	0.73
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	25	0.73
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	25	0.73
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	10	0.73
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	8	0.73
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	21	0.72
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	9	0.72
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	10	0.72
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	10	0.72
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	10	0.72
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG11	3	0.72
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG12	3	0.72
(1,416)	1:38:A:GLU:H	1:50:A:VAL:HG13	3	0.72
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	24	0.72
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	24	0.72
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	24	0.72
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	11	0.72
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	11	0.72
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	11	0.72
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	27	0.72
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	27	0.72
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	27	0.72
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	27	0.72
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	27	0.72
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	27	0.72
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	27	0.72
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	27	0.72
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	27	0.72
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	21	0.72
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	15	0.72
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	15	0.72
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	15	0.72
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	23	0.72
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	23	0.72
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	23	0.72
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	16	0.72
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	16	0.72
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	16	0.72
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	20	0.72
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	10	0.72
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	30	0.72
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	30	0.72

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	30	0.72
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	30	0.72
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	30	0.72
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	30	0.72
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	30	0.72
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	24	0.71
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	18	0.71
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	4	0.71
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	20	0.71
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	2	0.71
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	20	0.71
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	20	0.71
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	20	0.71
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	6	0.71
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	29	0.71
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	29	0.71
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	29	0.71
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	29	0.71
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	29	0.71
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	29	0.71
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	29	0.71
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	29	0.71
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	29	0.71
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	8	0.71
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	8	0.71
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	8	0.71
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	5	0.7
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	5	0.7
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	5	0.7
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	12	0.7
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	12	0.7
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	12	0.7
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	21	0.7
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	21	0.7
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	21	0.7
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	11	0.7
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	19	0.7
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	19	0.7
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	19	0.7
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	4	0.69
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	4	0.69
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	4	0.69

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	7	0.69
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	3	0.69
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	21	0.69
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	21	0.69
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	21	0.69
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	11	0.69
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	11	0.69
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	11	0.69
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	14	0.69
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	14	0.69
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	14	0.69
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	6	0.69
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	6	0.69
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	6	0.69
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	29	0.69
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	29	0.69
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	29	0.69
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	8	0.69
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	8	0.69
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	8	0.69
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	3	0.68
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	17	0.68
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	17	0.68
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	17	0.68
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	29	0.68
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	27	0.68
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	27	0.68
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	27	0.68
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	5	0.68
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	11	0.68
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	11	0.68
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	11	0.68
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	11	0.68
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	11	0.68
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	11	0.68
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	11	0.68
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	11	0.68
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	11	0.68
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	5	0.68
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	5	0.68
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	5	0.68
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	21	0.68

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	21	0.68
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	21	0.68
(1,186)	1:30:A:LEU:HD11	1:62:A:ILE:HG13	7	0.68
(1,186)	1:30:A:LEU:HD12	1:62:A:ILE:HG13	7	0.68
(1,186)	1:30:A:LEU:HD13	1:62:A:ILE:HG13	7	0.68
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	13	0.68
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	1	0.68
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	6	0.68
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	6	0.68
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	6	0.68
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	6	0.68
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	6	0.68
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	6	0.68
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	11	0.68
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	11	0.68
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	11	0.68
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	11	0.68
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	11	0.68
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	11	0.68
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	11	0.68
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	11	0.68
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	11	0.68
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	15	0.68
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	15	0.68
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	15	0.68
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	6	0.67
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	11	0.67
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	1	0.67
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	27	0.67
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	27	0.67
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	27	0.67
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	15	0.67
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	15	0.67
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	15	0.67
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	15	0.67
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	15	0.67
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	15	0.67
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	15	0.67
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	15	0.67
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	15	0.67
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	28	0.67
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	28	0.67

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	28	0.67
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	4	0.67
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	4	0.67
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	4	0.67
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	28	0.67
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	28	0.67
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	28	0.67
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	28	0.67
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	28	0.67
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	28	0.67
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD11	26	0.66
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD12	26	0.66
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD13	26	0.66
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	28	0.66
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	3	0.66
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	3	0.66
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	3	0.66
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	25	0.66
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	25	0.66
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	25	0.66
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	23	0.66
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	23	0.66
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	23	0.66
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	6	0.66
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	28	0.66
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	28	0.66
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	28	0.66
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	30	0.66
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	30	0.66
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	30	0.66
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	24	0.66
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	24	0.66
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	24	0.66
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	24	0.66
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	24	0.66
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	24	0.66
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	29	0.66
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	29	0.66
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	29	0.66
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	16	0.66
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	16	0.66
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	16	0.66

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	23	0.65
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	23	0.65
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	23	0.65
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	23	0.65
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	23	0.65
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	23	0.65
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	23	0.65
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	23	0.65
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	23	0.65
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	7	0.65
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	7	0.65
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	7	0.65
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	7	0.65
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	7	0.65
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	7	0.65
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	10	0.65
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	5	0.65
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	5	0.65
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	5	0.65
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	2	0.65
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD21	29	0.65
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD22	29	0.65
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD23	29	0.65
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	8	0.65
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	8	0.65
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	8	0.65
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	9	0.65
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	9	0.65
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	9	0.65
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	26	0.65
(1,109)	1:59:A:GLU:HG3	1:63:A:GLN:H	21	0.65
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	18	0.65
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	19	0.65
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	19	0.65
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	19	0.65
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	28	0.65
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	28	0.65
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	28	0.65
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	11	0.65
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	10	0.64
(2,5)	1:35:A:GLY:HA3	1:53:A:ASP:HB3	13	0.64
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	13	0.64

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	13	0.64
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	13	0.64
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	10	0.64
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	10	0.64
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	10	0.64
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	5	0.64
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	10	0.64
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	10	0.64
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	10	0.64
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD11	12	0.63
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD12	12	0.63
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD13	12	0.63
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	2	0.63
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	2	0.63
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	2	0.63
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	11	0.63
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	11	0.63
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	11	0.63
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	26	0.63
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	26	0.63
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	26	0.63
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	20	0.63
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	20	0.63
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	20	0.63
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	20	0.63
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	20	0.63
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	20	0.63
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	20	0.63
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	1	0.63
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	1	0.63
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	1	0.63
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	3	0.63
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	3	0.63
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	3	0.63
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	3	0.63
(1,174)	1:33:A:LEU:HD11	1:62:A:ILE:HA	24	0.63
(1,174)	1:33:A:LEU:HD12	1:62:A:ILE:HA	24	0.63
(1,174)	1:33:A:LEU:HD13	1:62:A:ILE:HA	24	0.63
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	6	0.63
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	6	0.63
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	6	0.63
(1,46)	1:36:A:VAL:HG21	1:50:A:VAL:HB	11	0.63

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,46)	1:36:A:VAL:HG22	1:50:A:VAL:HB	11	0.63
(1,46)	1:36:A:VAL:HG23	1:50:A:VAL:HB	11	0.63
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	5	0.63
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	12	0.63
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	22	0.63
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	22	0.63
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	22	0.63
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	9	0.62
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	13	0.62
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	24	0.62
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	24	0.62
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	24	0.62
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	26	0.62
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	26	0.62
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	26	0.62
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG21	28	0.62
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG22	28	0.62
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG23	28	0.62
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG21	28	0.62
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG22	28	0.62
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG23	28	0.62
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG21	28	0.62
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG22	28	0.62
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG23	28	0.62
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	12	0.62
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	6	0.62
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	6	0.62
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	6	0.62
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	10	0.62
(1,83)	1:36:A:VAL:HG11	1:52:A:TYR:HB3	8	0.62
(1,83)	1:36:A:VAL:HG12	1:52:A:TYR:HB3	8	0.62
(1,83)	1:36:A:VAL:HG13	1:52:A:TYR:HB3	8	0.62
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	6	0.62
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	6	0.62
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	6	0.62
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	6	0.62
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	6	0.62
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	6	0.62
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	6	0.62
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	6	0.62
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	6	0.62
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	12	0.62

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	12	0.62
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	12	0.62
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	12	0.62
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	12	0.62
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	12	0.62
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	12	0.62
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	12	0.62
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	12	0.62
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	21	0.61
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	21	0.61
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	21	0.61
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	5	0.61
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	2	0.61
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	2	0.61
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	2	0.61
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	30	0.61
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	17	0.61
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	17	0.61
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	17	0.61
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	11	0.61
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	11	0.61
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	11	0.61
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	5	0.61
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	5	0.61
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	5	0.61
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	9	0.61
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	9	0.61
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	9	0.61
(1,68)	1:57:A:VAL:HA	1:58:A:SER:HB3	12	0.61
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	7	0.61
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	7	0.61
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	7	0.61
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	7	0.61
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	7	0.61
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	7	0.61
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	3	0.61
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	7	0.6
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	15	0.6
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	16	0.6
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	19	0.6
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	19	0.6
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	19	0.6

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	4	0.6
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	3	0.6
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	10	0.6
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	10	0.6
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	10	0.6
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	15	0.6
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	15	0.6
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	15	0.6
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	19	0.6
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	25	0.6
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	15	0.6
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	15	0.6
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	15	0.6
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	25	0.6
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	25	0.6
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	25	0.6
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	25	0.6
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	25	0.6
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	25	0.6
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	17	0.6
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	17	0.6
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	17	0.6
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	30	0.59
(1,661)	1:27:A:GLU:H	1:65:A:ARG:HD3	23	0.59
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	18	0.59
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	20	0.59
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	26	0.59
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	30	0.59
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	30	0.59
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	30	0.59
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	8	0.59
(1,237)	1:60:A:ILE:HD11	1:63:A:GLN:HB3	10	0.59
(1,237)	1:60:A:ILE:HD12	1:63:A:GLN:HB3	10	0.59
(1,237)	1:60:A:ILE:HD13	1:63:A:GLN:HB3	10	0.59
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	30	0.59
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	30	0.59
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	30	0.59
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	25	0.59
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	22	0.59
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	22	0.59
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	22	0.59
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	22	0.59

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	22	0.59
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	22	0.59
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	7	0.59
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	20	0.59
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	5	0.58
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	13	0.58
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	13	0.58
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	13	0.58
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	13	0.58
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	13	0.58
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	13	0.58
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	13	0.58
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	13	0.58
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	13	0.58
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	22	0.58
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	11	0.58
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	11	0.58
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	11	0.58
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	20	0.58
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	3	0.58
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	3	0.58
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	3	0.58
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	22	0.58
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	22	0.58
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	22	0.58
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	28	0.58
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	28	0.58
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	28	0.58
(1,403)	1:33:A:LEU:HD21	1:34:A:LYS:H	12	0.58
(1,403)	1:33:A:LEU:HD22	1:34:A:LYS:H	12	0.58
(1,403)	1:33:A:LEU:HD23	1:34:A:LYS:H	12	0.58
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	2	0.58
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	2	0.58
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	2	0.58
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	1	0.58
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	16	0.58
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	18	0.58
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	10	0.58
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	10	0.58
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	10	0.58
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	24	0.58
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	6	0.58

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	4	0.57
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	1	0.57
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	1	0.57
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	1	0.57
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	1	0.57
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	1	0.57
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	1	0.57
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	1	0.57
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	1	0.57
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	1	0.57
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	28	0.57
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	4	0.57
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	4	0.57
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	4	0.57
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	13	0.57
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	13	0.57
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	13	0.57
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	24	0.57
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	27	0.56
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	27	0.56
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	27	0.56
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	14	0.56
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	5	0.56
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	3	0.56
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	11	0.56
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	20	0.56
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	17	0.56
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	17	0.56
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	17	0.56
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	18	0.56
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	18	0.56
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	18	0.56
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	30	0.56
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	30	0.56
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	30	0.56
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	21	0.56
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	21	0.56
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	21	0.56
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	6	0.56
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	6	0.56
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	6	0.56
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	23	0.56

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	11	0.56
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	11	0.56
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	11	0.56
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	11	0.56
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	11	0.56
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	11	0.56
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	11	0.56
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	11	0.56
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	11	0.56
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	20	0.56
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	20	0.56
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	20	0.56
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	13	0.56
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	13	0.56
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	13	0.56
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	13	0.56
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	13	0.56
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	13	0.56
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	14	0.55
(3,1)	1:12:A:MET:H	1:48:A:LEU:O	13	0.55
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD11	8	0.55
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD12	8	0.55
(2,34)	1:63:A:GLN:HG3	1:66:A:ILE:HD13	8	0.55
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD11	13	0.55
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD12	13	0.55
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD13	13	0.55
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD11	13	0.55
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD12	13	0.55
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD13	13	0.55
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD11	13	0.55
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD12	13	0.55
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD13	13	0.55
(2,3)	1:50:A:VAL:HB	1:52:A:TYR:HB3	3	0.55
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	12	0.55
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	12	0.55
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	12	0.55
(1,191)	1:14:A:VAL:HG21	1:48:A:LEU:HA	23	0.55
(1,191)	1:14:A:VAL:HG22	1:48:A:LEU:HA	23	0.55
(1,191)	1:14:A:VAL:HG23	1:48:A:LEU:HA	23	0.55
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	23	0.55
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	23	0.55
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	23	0.55

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	12	0.55
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	12	0.55
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	12	0.55
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	9	0.55
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	9	0.55
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	9	0.55
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	9	0.55
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	9	0.55
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	9	0.55
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	20	0.55
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	20	0.55
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	20	0.55
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	20	0.55
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	20	0.55
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	20	0.55
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	20	0.55
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	20	0.55
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	20	0.55
(2,5)	1:35:A:GLY:HA3	1:53:A:ASP:HB3	24	0.54
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	27	0.54
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	6	0.54
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	6	0.54
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	6	0.54
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	8	0.54
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	8	0.54
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	8	0.54
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	13	0.54
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	13	0.54
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	13	0.54
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG11	16	0.54
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG12	16	0.54
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG13	16	0.54
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	10	0.54
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	10	0.54
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	10	0.54
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	10	0.54
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	10	0.54
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	10	0.54
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	10	0.54
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	10	0.54
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	10	0.54
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	15	0.54

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	27	0.54
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	27	0.54
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	27	0.54
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	6	0.54
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	4	0.54
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	26	0.54
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	26	0.54
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	26	0.54
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	16	0.54
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	16	0.54
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	16	0.54
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	12	0.53
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	10	0.53
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	29	0.53
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	12	0.53
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	12	0.53
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	12	0.53
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	24	0.53
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	24	0.53
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	24	0.53
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	9	0.53
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	9	0.53
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	9	0.53
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	9	0.53
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	9	0.53
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	9	0.53
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	9	0.53
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	9	0.53
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	9	0.53
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	21	0.53
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	11	0.53
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	9	0.53
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	9	0.53
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	9	0.53
(1,122)	1:74:A:ALA:H	1:75:A:GLU:HB3	16	0.53
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	30	0.52
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	18	0.52
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	8	0.52
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	8	0.52
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	8	0.52
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	8	0.52
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	8	0.52

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	8	0.52
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	11	0.52
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	30	0.52
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	30	0.52
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	30	0.52
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	30	0.52
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	30	0.52
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	30	0.52
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	30	0.52
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	30	0.52
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	30	0.52
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	24	0.52
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	24	0.52
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	24	0.52
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG21	11	0.52
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG22	11	0.52
(1,185)	1:30:A:LEU:HD11	1:61:A:THR:HG23	11	0.52
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG21	11	0.52
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG22	11	0.52
(1,185)	1:30:A:LEU:HD12	1:61:A:THR:HG23	11	0.52
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG21	11	0.52
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG22	11	0.52
(1,185)	1:30:A:LEU:HD13	1:61:A:THR:HG23	11	0.52
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	21	0.52
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	21	0.52
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	21	0.52
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	21	0.52
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	21	0.52
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	21	0.52
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	14	0.51
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	14	0.51
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	14	0.51
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	9	0.51
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	9	0.51
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	9	0.51
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	19	0.51
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	7	0.51
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	28	0.51
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	28	0.51
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	28	0.51
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	10	0.51
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	10	0.51

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	10	0.51
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	10	0.51
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	10	0.51
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	10	0.51
(3,7)	1:49:A:THR:H	1:40:A:SER:O	14	0.5
(2,3)	1:50:A:VAL:HB	1:52:A:TYR:HB3	15	0.5
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	10	0.5
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	23	0.5
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	12	0.5
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	12	0.5
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	12	0.5
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	30	0.5
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	30	0.5
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	30	0.5
(1,470)	1:58:A:SER:H	1:60:A:ILE:HG13	29	0.5
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	30	0.5
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	30	0.5
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	30	0.5
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG21	9	0.5
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG22	9	0.5
(1,365)	1:10:A:GLN:H	1:50:A:VAL:HG23	9	0.5
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	6	0.5
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	13	0.5
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	13	0.5
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	13	0.5
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	5	0.49
(2,3)	1:50:A:VAL:HB	1:52:A:TYR:HB3	29	0.49
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	23	0.49
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	23	0.49
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	23	0.49
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	16	0.49
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	16	0.49
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	16	0.49
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	29	0.49
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	29	0.49
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	29	0.49
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	18	0.49
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	18	0.49
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	18	0.49
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	18	0.49
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	18	0.49
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	18	0.49

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	18	0.49
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	18	0.49
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	18	0.49
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	4	0.49
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	4	0.49
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	4	0.49
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	15	0.49
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	15	0.49
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	15	0.49
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	8	0.49
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	8	0.49
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	8	0.49
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	1	0.49
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	1	0.49
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	1	0.49
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	1	0.49
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	1	0.49
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	1	0.49
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	13	0.49
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	10	0.48
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	10	0.48
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	10	0.48
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	10	0.48
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	10	0.48
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	10	0.48
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	10	0.48
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	10	0.48
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	10	0.48
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	8	0.48
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	8	0.48
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	13	0.48
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	13	0.48
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	13	0.48
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	1	0.48
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	1	0.48
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	1	0.48
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	23	0.48
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	23	0.48
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	23	0.48
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	23	0.48
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	23	0.48
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	23	0.48

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	23	0.48
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	23	0.48
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	23	0.48
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	16	0.48
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	16	0.48
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	16	0.48
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	22	0.48
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	22	0.48
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	22	0.48
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	25	0.48
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	25	0.48
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	25	0.48
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG21	9	0.48
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG22	9	0.48
(1,166)	1:7:A:LEU:HD11	1:51:A:THR:HG23	9	0.48
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG21	9	0.48
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG22	9	0.48
(1,166)	1:7:A:LEU:HD12	1:51:A:THR:HG23	9	0.48
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG21	9	0.48
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG22	9	0.48
(1,166)	1:7:A:LEU:HD13	1:51:A:THR:HG23	9	0.48
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	9	0.48
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	21	0.47
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	21	0.47
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	21	0.47
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	21	0.47
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	21	0.47
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	21	0.47
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	21	0.47
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	21	0.47
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	21	0.47
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	5	0.47
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	26	0.47
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	1	0.47
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	1	0.47
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	1	0.47
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	27	0.47
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	27	0.47
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	27	0.47
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	7	0.47
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	7	0.47
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	7	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	17	0.47
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	17	0.47
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	17	0.47
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	21	0.47
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	21	0.47
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	21	0.47
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	21	0.47
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	21	0.47
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	21	0.47
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	21	0.47
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	21	0.47
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	21	0.47
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	27	0.47
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	27	0.47
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	27	0.47
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	27	0.47
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	27	0.47
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	27	0.47
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	27	0.47
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	27	0.47
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	27	0.47
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	5	0.47
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	5	0.47
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	5	0.47
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	5	0.47
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	5	0.47
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	5	0.47
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	5	0.47
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	5	0.47
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	5	0.47
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	13	0.47
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	13	0.47
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	13	0.47
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	13	0.47
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	13	0.47
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	13	0.47
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	13	0.47
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	13	0.47
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	13	0.47
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	14	0.47
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	14	0.47
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	14	0.47

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	19	0.47
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	19	0.47
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	19	0.47
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	7	0.47
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	7	0.47
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	7	0.47
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	10	0.47
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	10	0.47
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	10	0.47
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	6	0.47
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	6	0.47
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	6	0.47
(3,7)	1:49:A:THR:H	1:40:A:SER:O	9	0.46
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	10	0.46
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	10	0.46
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	10	0.46
(1,526)	1:14:A:VAL:HG11	1:72:A:THR:H	4	0.46
(1,526)	1:14:A:VAL:HG12	1:72:A:THR:H	4	0.46
(1,526)	1:14:A:VAL:HG13	1:72:A:THR:H	4	0.46
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	13	0.46
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	3	0.46
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	3	0.46
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	3	0.46
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	13	0.46
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	13	0.46
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	13	0.46
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	13	0.46
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	13	0.46
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	13	0.46
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	13	0.46
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	13	0.46
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	13	0.46
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	27	0.46
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	27	0.46
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	22	0.46
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	22	0.46
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	22	0.46
(1,189)	1:30:A:LEU:HD21	1:50:A:VAL:HG11	11	0.46
(1,189)	1:30:A:LEU:HD21	1:50:A:VAL:HG12	11	0.46
(1,189)	1:30:A:LEU:HD21	1:50:A:VAL:HG13	11	0.46
(1,189)	1:30:A:LEU:HD22	1:50:A:VAL:HG11	11	0.46
(1,189)	1:30:A:LEU:HD22	1:50:A:VAL:HG12	11	0.46

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,189)	1:30:A:LEU:HD22	1:50:A:VAL:HG13	11	0.46
(1,189)	1:30:A:LEU:HD23	1:50:A:VAL:HG11	11	0.46
(1,189)	1:30:A:LEU:HD23	1:50:A:VAL:HG12	11	0.46
(1,189)	1:30:A:LEU:HD23	1:50:A:VAL:HG13	11	0.46
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	11	0.46
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	11	0.46
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	11	0.46
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	18	0.46
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	18	0.46
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	18	0.46
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	21	0.46
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	21	0.46
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	21	0.46
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	23	0.46
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	23	0.46
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	23	0.46
(3,7)	1:49:A:THR:H	1:40:A:SER:O	5	0.45
(2,3)	1:50:A:VAL:HB	1:52:A:TYR:HB3	2	0.45
(1,359)	1:7:A:LEU:HD11	1:52:A:TYR:H	10	0.45
(1,359)	1:7:A:LEU:HD12	1:52:A:TYR:H	10	0.45
(1,359)	1:7:A:LEU:HD13	1:52:A:TYR:H	10	0.45
(1,183)	1:30:A:LEU:HD11	1:33:A:LEU:H	11	0.45
(1,183)	1:30:A:LEU:HD12	1:33:A:LEU:H	11	0.45
(1,183)	1:30:A:LEU:HD13	1:33:A:LEU:H	11	0.45
(1,179)	1:33:A:LEU:HD21	1:65:A:ARG:H	15	0.45
(1,179)	1:33:A:LEU:HD22	1:65:A:ARG:H	15	0.45
(1,179)	1:33:A:LEU:HD23	1:65:A:ARG:H	15	0.45
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	18	0.45
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	3	0.45
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	3	0.45
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	3	0.45
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	6	0.45
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	6	0.45
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	6	0.45
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	28	0.45
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	28	0.45
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	28	0.45
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	20	0.45
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	20	0.45
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	20	0.45
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	5	0.44
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	8	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD11	14	0.44
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD12	14	0.44
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD13	14	0.44
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD11	14	0.44
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD12	14	0.44
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD13	14	0.44
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD11	14	0.44
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD12	14	0.44
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD13	14	0.44
(1,654)	1:14:A:VAL:HG21	1:74:A:ALA:H	19	0.44
(1,654)	1:14:A:VAL:HG22	1:74:A:ALA:H	19	0.44
(1,654)	1:14:A:VAL:HG23	1:74:A:ALA:H	19	0.44
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	17	0.44
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	17	0.44
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	17	0.44
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	9	0.44
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	9	0.44
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	9	0.44
(1,403)	1:33:A:LEU:HD21	1:34:A:LYS:H	13	0.44
(1,403)	1:33:A:LEU:HD22	1:34:A:LYS:H	13	0.44
(1,403)	1:33:A:LEU:HD23	1:34:A:LYS:H	13	0.44
(1,403)	1:33:A:LEU:HD21	1:34:A:LYS:H	28	0.44
(1,403)	1:33:A:LEU:HD22	1:34:A:LYS:H	28	0.44
(1,403)	1:33:A:LEU:HD23	1:34:A:LYS:H	28	0.44
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	10	0.44
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	12	0.44
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	12	0.44
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	12	0.44
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	25	0.44
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	25	0.44
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	25	0.44
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	12	0.44
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	12	0.44
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	12	0.44
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	12	0.44
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	12	0.44
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	12	0.44
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	12	0.44
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	12	0.44
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	12	0.44
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	5	0.44
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	3	0.44

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	3	0.44
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	3	0.44
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	28	0.44
(3,7)	1:49:A:THR:H	1:40:A:SER:O	23	0.43
(3,2)	1:12:A:MET:N	1:48:A:LEU:O	13	0.43
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	27	0.43
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	27	0.43
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	27	0.43
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG21	25	0.43
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG22	25	0.43
(1,546)	1:13:A:GLN:H	1:14:A:VAL:HG23	25	0.43
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	15	0.43
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	15	0.43
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	15	0.43
(1,312)	1:12:A:MET:HA	1:76:A:PRO:HD3	14	0.43
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	22	0.43
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	10	0.43
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	10	0.43
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	10	0.43
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	3	0.43
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	3	0.43
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	3	0.43
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG21	15	0.43
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG22	15	0.43
(1,268)	1:18:A:ARG:HB3	1:43:A:VAL:HG23	15	0.43
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	17	0.43
(1,83)	1:36:A:VAL:HG11	1:52:A:TYR:HB3	28	0.43
(1,83)	1:36:A:VAL:HG12	1:52:A:TYR:HB3	28	0.43
(1,83)	1:36:A:VAL:HG13	1:52:A:TYR:HB3	28	0.43
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	25	0.43
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	25	0.43
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	25	0.43
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	27	0.43
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	27	0.43
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	27	0.43
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	27	0.43
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	27	0.43
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	27	0.43
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	2	0.43
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	29	0.43
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	29	0.43
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	29	0.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	6	0.42
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	30	0.42
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	30	0.42
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	30	0.42
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD11	27	0.42
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD12	27	0.42
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD13	27	0.42
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD11	27	0.42
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD12	27	0.42
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD13	27	0.42
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD11	27	0.42
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD12	27	0.42
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD13	27	0.42
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	7	0.42
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	22	0.42
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	6	0.42
(1,403)	1:33:A:LEU:HD21	1:34:A:LYS:H	20	0.42
(1,403)	1:33:A:LEU:HD22	1:34:A:LYS:H	20	0.42
(1,403)	1:33:A:LEU:HD23	1:34:A:LYS:H	20	0.42
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	23	0.42
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	23	0.42
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	23	0.42
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	18	0.42
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	18	0.42
(1,237)	1:60:A:ILE:HD11	1:63:A:GLN:HB3	15	0.42
(1,237)	1:60:A:ILE:HD12	1:63:A:GLN:HB3	15	0.42
(1,237)	1:60:A:ILE:HD13	1:63:A:GLN:HB3	15	0.42
(1,179)	1:33:A:LEU:HD21	1:65:A:ARG:H	10	0.42
(1,179)	1:33:A:LEU:HD22	1:65:A:ARG:H	10	0.42
(1,179)	1:33:A:LEU:HD23	1:65:A:ARG:H	10	0.42
(1,108)	1:58:A:SER:HA	1:59:A:GLU:HG3	30	0.42
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	27	0.42
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	27	0.42
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	27	0.42
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	4	0.42
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	4	0.42
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	4	0.42
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	4	0.42
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	4	0.42
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	4	0.42
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	20	0.42
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	20	0.42

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	20	0.42
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	20	0.42
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	20	0.42
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	20	0.42
(1,4)	1:7:A:LEU:HD21	1:52:A:TYR:HA	10	0.42
(1,4)	1:7:A:LEU:HD22	1:52:A:TYR:HA	10	0.42
(1,4)	1:7:A:LEU:HD23	1:52:A:TYR:HA	10	0.42
(3,8)	1:49:A:THR:N	1:40:A:SER:O	23	0.41
(3,7)	1:49:A:THR:H	1:40:A:SER:O	21	0.41
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	29	0.41
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	29	0.41
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	29	0.41
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD11	8	0.41
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD12	8	0.41
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD13	8	0.41
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	22	0.41
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	22	0.41
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	22	0.41
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	1	0.41
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	9	0.41
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	9	0.41
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	9	0.41
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	15	0.41
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	15	0.41
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	15	0.41
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	11	0.41
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	11	0.41
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	11	0.41
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	14	0.41
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	30	0.41
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	30	0.41
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	30	0.41
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	20	0.41
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	20	0.41
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	20	0.41
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	2	0.41
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	2	0.41
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	2	0.41
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	2	0.41
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	2	0.41
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	2	0.41
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	10	0.41

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	10	0.41
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	10	0.41
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	10	0.41
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	10	0.41
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	10	0.41
(3,8)	1:49:A:THR:N	1:40:A:SER:O	14	0.4
(3,1)	1:12:A:MET:H	1:48:A:LEU:O	10	0.4
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	26	0.4
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	26	0.4
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	26	0.4
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	19	0.4
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	22	0.4
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	24	0.4
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	8	0.4
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG11	18	0.4
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG12	18	0.4
(1,412)	1:37:A:ALA:H	1:50:A:VAL:HG13	18	0.4
(1,403)	1:33:A:LEU:HD21	1:34:A:LYS:H	7	0.4
(1,403)	1:33:A:LEU:HD22	1:34:A:LYS:H	7	0.4
(1,403)	1:33:A:LEU:HD23	1:34:A:LYS:H	7	0.4
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG11	21	0.4
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG12	21	0.4
(1,277)	1:27:A:GLU:HG3	1:41:A:VAL:HG13	21	0.4
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	30	0.4
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	1	0.4
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	1	0.4
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	1	0.4
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	1	0.4
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	1	0.4
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	1	0.4
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	8	0.4
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	8	0.4
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	8	0.4
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	30	0.4
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	30	0.4
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	30	0.4
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	24	0.4
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	24	0.4
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	24	0.4
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	21	0.39
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	30	0.39
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	1	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	1	0.39
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	1	0.39
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	2	0.39
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	2	0.39
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	2	0.39
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	2	0.39
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	2	0.39
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	2	0.39
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	2	0.39
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	2	0.39
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	2	0.39
(2,19)	1:17:A:MET:HG3	1:26:A:ILE:HD11	20	0.39
(2,19)	1:17:A:MET:HG3	1:26:A:ILE:HD12	20	0.39
(2,19)	1:17:A:MET:HG3	1:26:A:ILE:HD13	20	0.39
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	13	0.39
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	17	0.39
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	17	0.39
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	17	0.39
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	9	0.39
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	9	0.39
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	9	0.39
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	11	0.39
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	11	0.39
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	11	0.39
(1,299)	1:35:A:GLY:HA3	1:56:A:GLN:HB3	22	0.39
(1,267)	1:26:A:ILE:HD11	1:65:A:ARG:HG3	22	0.39
(1,267)	1:26:A:ILE:HD12	1:65:A:ARG:HG3	22	0.39
(1,267)	1:26:A:ILE:HD13	1:65:A:ARG:HG3	22	0.39
(1,237)	1:60:A:ILE:HD11	1:63:A:GLN:HB3	24	0.39
(1,237)	1:60:A:ILE:HD12	1:63:A:GLN:HB3	24	0.39
(1,237)	1:60:A:ILE:HD13	1:63:A:GLN:HB3	24	0.39
(1,200)	1:48:A:LEU:HD21	1:50:A:VAL:HB	7	0.39
(1,200)	1:48:A:LEU:HD22	1:50:A:VAL:HB	7	0.39
(1,200)	1:48:A:LEU:HD23	1:50:A:VAL:HB	7	0.39
(1,130)	1:10:A:GLN:HG3	1:75:A:GLU:HG3	3	0.39
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	24	0.39
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	24	0.39
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	24	0.39
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	24	0.39
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	24	0.39
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	24	0.39
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	19	0.39

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	19	0.39
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	19	0.39
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	19	0.39
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	19	0.39
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	19	0.39
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	2	0.39
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	2	0.39
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	2	0.39
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	5	0.39
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	5	0.39
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	5	0.39
(2,3)	1:50:A:VAL:HB	1:52:A:TYR:HB3	22	0.38
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	29	0.38
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	21	0.38
(1,403)	1:33:A:LEU:HD21	1:34:A:LYS:H	14	0.38
(1,403)	1:33:A:LEU:HD22	1:34:A:LYS:H	14	0.38
(1,403)	1:33:A:LEU:HD23	1:34:A:LYS:H	14	0.38
(1,359)	1:7:A:LEU:HD11	1:52:A:TYR:H	28	0.38
(1,359)	1:7:A:LEU:HD12	1:52:A:TYR:H	28	0.38
(1,359)	1:7:A:LEU:HD13	1:52:A:TYR:H	28	0.38
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	23	0.38
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	23	0.38
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	23	0.38
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	24	0.38
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	24	0.38
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	24	0.38
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	19	0.38
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	19	0.38
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	19	0.38
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	19	0.38
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	19	0.38
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	19	0.38
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	19	0.38
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	19	0.38
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	19	0.38
(1,267)	1:26:A:ILE:HD11	1:65:A:ARG:HG3	2	0.38
(1,267)	1:26:A:ILE:HD12	1:65:A:ARG:HG3	2	0.38
(1,267)	1:26:A:ILE:HD13	1:65:A:ARG:HG3	2	0.38
(1,243)	1:42:A:THR:HB	1:47:A:ARG:HB3	21	0.38
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	4	0.38
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	4	0.38
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	4	0.38

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	6	0.38
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	6	0.38
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	6	0.38
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	1	0.38
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	1	0.38
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	1	0.38
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	14	0.38
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	14	0.38
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	14	0.38
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	15	0.38
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	15	0.38
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	15	0.38
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	19	0.38
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	19	0.38
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	19	0.38
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	26	0.38
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	26	0.38
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	26	0.38
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	5	0.38
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	5	0.38
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	5	0.38
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	5	0.38
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	5	0.38
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	5	0.38
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	19	0.38
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	19	0.38
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	19	0.38
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	26	0.38
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	26	0.38
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	26	0.38
(3,9)	1:51:A:THR:H	1:38:A:GLU:O	6	0.37
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	5	0.37
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	24	0.37
(3,1)	1:12:A:MET:H	1:48:A:LEU:O	20	0.37
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	1	0.37
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	1	0.37
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	1	0.37
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	3	0.37
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	3	0.37
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	3	0.37
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	14	0.37
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	28	0.37

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	28	0.37
(1,200)	1:48:A:LEU:HD21	1:50:A:VAL:HB	22	0.37
(1,200)	1:48:A:LEU:HD22	1:50:A:VAL:HB	22	0.37
(1,200)	1:48:A:LEU:HD23	1:50:A:VAL:HB	22	0.37
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	19	0.37
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	19	0.37
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	19	0.37
(1,130)	1:10:A:GLN:HG3	1:75:A:GLU:HG3	2	0.37
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	24	0.37
(1,71)	1:57:A:VAL:HG11	1:60:A:ILE:HB	18	0.37
(1,71)	1:57:A:VAL:HG12	1:60:A:ILE:HB	18	0.37
(1,71)	1:57:A:VAL:HG13	1:60:A:ILE:HB	18	0.37
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	13	0.37
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	13	0.37
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	13	0.37
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	15	0.37
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	15	0.37
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	15	0.37
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	23	0.37
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	23	0.37
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	23	0.37
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	21	0.36
(3,2)	1:12:A:MET:N	1:48:A:LEU:O	10	0.36
(3,1)	1:12:A:MET:H	1:48:A:LEU:O	9	0.36
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	12	0.36
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	16	0.36
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	16	0.36
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	16	0.36
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	9	0.36
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	9	0.36
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	9	0.36
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	14	0.36
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	14	0.36
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	14	0.36
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	17	0.36
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	17	0.36
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	17	0.36
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	17	0.36
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	17	0.36
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	17	0.36
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	17	0.36
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	17	0.36

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	17	0.36
(1,299)	1:35:A:GLY:HA3	1:56:A:GLN:HB3	13	0.36
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	13	0.36
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	13	0.36
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	16	0.36
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	16	0.36
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	19	0.36
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	19	0.36
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	26	0.36
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	26	0.36
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	26	0.36
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	6	0.36
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	12	0.36
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	12	0.36
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	12	0.36
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	2	0.35
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	2	0.35
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	2	0.35
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	19	0.35
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	19	0.35
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	19	0.35
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	16	0.35
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	16	0.35
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	16	0.35
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	7	0.35
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	7	0.35
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	12	0.35
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	12	0.35
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	7	0.35
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	14	0.35
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	30	0.35
(1,80)	1:36:A:VAL:HG21	1:52:A:TYR:HA	14	0.35
(1,80)	1:36:A:VAL:HG22	1:52:A:TYR:HA	14	0.35
(1,80)	1:36:A:VAL:HG23	1:52:A:TYR:HA	14	0.35
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	6	0.35
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	6	0.35
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	6	0.35
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	9	0.35
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	9	0.35
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	9	0.35
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	29	0.35
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	12	0.35

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	12	0.35
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	12	0.35
(3,7)	1:49:A:THR:H	1:40:A:SER:O	1	0.34
(1,654)	1:14:A:VAL:HG21	1:74:A:ALA:H	3	0.34
(1,654)	1:14:A:VAL:HG22	1:74:A:ALA:H	3	0.34
(1,654)	1:14:A:VAL:HG23	1:74:A:ALA:H	3	0.34
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD21	18	0.34
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD22	18	0.34
(1,550)	1:26:A:ILE:H	1:69:A:LEU:HD23	18	0.34
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	27	0.34
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	21	0.34
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	21	0.34
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	21	0.34
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG21	2	0.34
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG22	2	0.34
(1,193)	1:48:A:LEU:HB3	1:62:A:ILE:HG23	2	0.34
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	10	0.34
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	22	0.34
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	22	0.34
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	22	0.34
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	29	0.34
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	29	0.34
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	29	0.34
(1,45)	1:36:A:VAL:HG21	1:39:A:ALA:HB1	3	0.34
(1,45)	1:36:A:VAL:HG21	1:39:A:ALA:HB2	3	0.34
(1,45)	1:36:A:VAL:HG21	1:39:A:ALA:HB3	3	0.34
(1,45)	1:36:A:VAL:HG22	1:39:A:ALA:HB1	3	0.34
(1,45)	1:36:A:VAL:HG22	1:39:A:ALA:HB2	3	0.34
(1,45)	1:36:A:VAL:HG22	1:39:A:ALA:HB3	3	0.34
(1,45)	1:36:A:VAL:HG23	1:39:A:ALA:HB1	3	0.34
(1,45)	1:36:A:VAL:HG23	1:39:A:ALA:HB2	3	0.34
(1,45)	1:36:A:VAL:HG23	1:39:A:ALA:HB3	3	0.34
(1,4)	1:7:A:LEU:HD21	1:52:A:TYR:HA	25	0.34
(1,4)	1:7:A:LEU:HD22	1:52:A:TYR:HA	25	0.34
(1,4)	1:7:A:LEU:HD23	1:52:A:TYR:HA	25	0.34
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	3	0.34
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	3	0.34
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	3	0.34
(3,13)	1:15:A:GLY:H	1:72:A:THR:O	13	0.33
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	7	0.33
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	19	0.33
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	13	0.33

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	13	0.33
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	13	0.33
(2,17)	1:17:A:MET:HG3	1:22:A:CYS:HB3	27	0.33
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	3	0.33
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	25	0.33
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	25	0.33
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	25	0.33
(1,370)	1:11:A:GLN:H	1:75:A:GLU:HG3	10	0.33
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	26	0.33
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	26	0.33
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	26	0.33
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	26	0.33
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	26	0.33
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	26	0.33
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	26	0.33
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	26	0.33
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	26	0.33
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	29	0.33
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	29	0.33
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	26	0.33
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	26	0.33
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	26	0.33
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	14	0.33
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	14	0.33
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	14	0.33
(1,72)	1:35:A:GLY:H	1:57:A:VAL:HG21	17	0.33
(1,72)	1:35:A:GLY:H	1:57:A:VAL:HG22	17	0.33
(1,72)	1:35:A:GLY:H	1:57:A:VAL:HG23	17	0.33
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	5	0.33
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	5	0.33
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	5	0.33
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	25	0.33
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	16	0.33
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	16	0.33
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	16	0.33
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD21	30	0.33
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD22	30	0.33
(1,2)	1:7:A:LEU:HA	1:7:A:LEU:HD23	30	0.33
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	19	0.32
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	19	0.32
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	19	0.32
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	10	0.32

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	10	0.32
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	10	0.32
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	5	0.32
(1,615)	1:14:A:VAL:HG21	1:48:A:LEU:H	4	0.32
(1,615)	1:14:A:VAL:HG22	1:48:A:LEU:H	4	0.32
(1,615)	1:14:A:VAL:HG23	1:48:A:LEU:H	4	0.32
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	22	0.32
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	22	0.32
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	22	0.32
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	27	0.32
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	13	0.32
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	13	0.32
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	13	0.32
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	20	0.32
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	20	0.32
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	20	0.32
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	20	0.32
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	20	0.32
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	20	0.32
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	20	0.32
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	20	0.32
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	20	0.32
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	22	0.32
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	22	0.32
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD11	24	0.32
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD12	24	0.32
(1,187)	1:30:A:LEU:HD11	1:62:A:ILE:HD13	24	0.32
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD11	24	0.32
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD12	24	0.32
(1,187)	1:30:A:LEU:HD12	1:62:A:ILE:HD13	24	0.32
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD11	24	0.32
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD12	24	0.32
(1,187)	1:30:A:LEU:HD13	1:62:A:ILE:HD13	24	0.32
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	18	0.32
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	18	0.32
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	18	0.32
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	11	0.32
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	11	0.32
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	11	0.32
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	24	0.32
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	28	0.31
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	30	0.31

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	30	0.31
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	30	0.31
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	7	0.31
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	7	0.31
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	7	0.31
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	3	0.31
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	3	0.31
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	3	0.31
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	7	0.31
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	7	0.31
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	7	0.31
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	22	0.31
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	22	0.31
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	22	0.31
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	3	0.31
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	3	0.31
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	3	0.31
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	3	0.31
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	3	0.31
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	3	0.31
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	3	0.31
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	3	0.31
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	3	0.31
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	5	0.31
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	5	0.31
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	26	0.31
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	26	0.31
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	26	0.31
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	16	0.31
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	7	0.31
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	7	0.31
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	7	0.31
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	29	0.31
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	29	0.31
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	29	0.31
(3,8)	1:49:A:THR:N	1:40:A:SER:O	21	0.3
(3,7)	1:49:A:THR:H	1:40:A:SER:O	4	0.3
(3,2)	1:12:A:MET:N	1:48:A:LEU:O	9	0.3
(3,2)	1:12:A:MET:N	1:48:A:LEU:O	20	0.3
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	30	0.3
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	30	0.3
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	30	0.3

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	30	0.3
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	30	0.3
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	30	0.3
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	30	0.3
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	30	0.3
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	30	0.3
(1,597)	1:30:A:LEU:H	1:65:A:ARG:HG3	30	0.3
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	9	0.3
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	9	0.3
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	9	0.3
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	14	0.3
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	14	0.3
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	14	0.3
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	14	0.3
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	14	0.3
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	14	0.3
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	14	0.3
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	14	0.3
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	14	0.3
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG11	15	0.3
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG12	15	0.3
(1,47)	1:36:A:VAL:HG21	1:50:A:VAL:HG13	15	0.3
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG11	15	0.3
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG12	15	0.3
(1,47)	1:36:A:VAL:HG22	1:50:A:VAL:HG13	15	0.3
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG11	15	0.3
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG12	15	0.3
(1,47)	1:36:A:VAL:HG23	1:50:A:VAL:HG13	15	0.3
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	9	0.3
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	6	0.29
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	15	0.29
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	25	0.29
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	25	0.29
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	25	0.29
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD11	25	0.29
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD12	25	0.29
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD13	25	0.29
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD11	25	0.29
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD12	25	0.29
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD13	25	0.29
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD11	25	0.29
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD12	25	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD13	25	0.29
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD11	14	0.29
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD12	14	0.29
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD13	14	0.29
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	12	0.29
(1,530)	1:73:A:LEU:H	1:73:A:LEU:HD11	23	0.29
(1,530)	1:73:A:LEU:H	1:73:A:LEU:HD12	23	0.29
(1,530)	1:73:A:LEU:H	1:73:A:LEU:HD13	23	0.29
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	20	0.29
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	15	0.29
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	15	0.29
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	15	0.29
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	14	0.29
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	8	0.29
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	8	0.29
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	8	0.29
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	8	0.29
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	8	0.29
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	8	0.29
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	8	0.29
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	8	0.29
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	8	0.29
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	16	0.29
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	16	0.29
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	16	0.29
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	16	0.29
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	16	0.29
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	16	0.29
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	16	0.29
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	16	0.29
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	16	0.29
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	28	0.29
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	28	0.29
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	28	0.29
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	28	0.29
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	28	0.29
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	28	0.29
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	28	0.29
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	28	0.29
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	28	0.29
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	6	0.29
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	6	0.29

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	23	0.29
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	23	0.29
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	24	0.29
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	24	0.29
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	17	0.29
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	25	0.29
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	25	0.29
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	25	0.29
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	16	0.28
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	15	0.28
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	15	0.28
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	15	0.28
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	15	0.28
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	15	0.28
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	15	0.28
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	15	0.28
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	15	0.28
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	15	0.28
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	1	0.28
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	1	0.28
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	1	0.28
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	23	0.28
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	2	0.28
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	2	0.28
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	2	0.28
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	16	0.28
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	16	0.28
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	16	0.28
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	23	0.28
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	23	0.28
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	23	0.28
(1,405)	1:34:A:LYS:HG3	1:35:A:GLY:H	27	0.28
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	18	0.28
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	18	0.28
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	18	0.28
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	27	0.28
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	27	0.28
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	27	0.28
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	14	0.28
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	14	0.28
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	14	0.28
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	11	0.28

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	11	0.28
(1,292)	1:37:A:ALA:HB1	1:38:A:GLU:HG3	9	0.28
(1,292)	1:37:A:ALA:HB2	1:38:A:GLU:HG3	9	0.28
(1,292)	1:37:A:ALA:HB3	1:38:A:GLU:HG3	9	0.28
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	22	0.28
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	22	0.28
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	22	0.28
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	5	0.28
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	11	0.27
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	21	0.27
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	21	0.27
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	21	0.27
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD11	8	0.27
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD12	8	0.27
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD13	8	0.27
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD11	8	0.27
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD12	8	0.27
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD13	8	0.27
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD11	8	0.27
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD12	8	0.27
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD13	8	0.27
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	13	0.27
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	13	0.27
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	13	0.27
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	18	0.27
(1,455)	1:7:A:LEU:HD11	1:53:A:ASP:H	25	0.27
(1,455)	1:7:A:LEU:HD12	1:53:A:ASP:H	25	0.27
(1,455)	1:7:A:LEU:HD13	1:53:A:ASP:H	25	0.27
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	4	0.27
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	4	0.27
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	4	0.27
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	26	0.27
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	26	0.27
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	26	0.27
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	28	0.27
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	28	0.27
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	28	0.27
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	30	0.27
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	30	0.27
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	30	0.27
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	13	0.27
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	14	0.27

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	14	0.27
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	14	0.27
(1,403)	1:33:A:LEU:HD21	1:34:A:LYS:H	16	0.27
(1,403)	1:33:A:LEU:HD22	1:34:A:LYS:H	16	0.27
(1,403)	1:33:A:LEU:HD23	1:34:A:LYS:H	16	0.27
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	9	0.27
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	9	0.27
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	9	0.27
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	29	0.27
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	29	0.27
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	29	0.27
(1,360)	1:50:A:VAL:HG21	1:52:A:TYR:H	20	0.27
(1,360)	1:50:A:VAL:HG22	1:52:A:TYR:H	20	0.27
(1,360)	1:50:A:VAL:HG23	1:52:A:TYR:H	20	0.27
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	18	0.27
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	18	0.27
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	18	0.27
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	4	0.27
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	4	0.27
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	10	0.27
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	10	0.27
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	30	0.27
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	30	0.27
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	11	0.27
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	11	0.27
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	11	0.27
(1,235)	1:60:A:ILE:HG21	1:63:A:GLN:HB3	17	0.27
(1,235)	1:60:A:ILE:HG22	1:63:A:GLN:HB3	17	0.27
(1,235)	1:60:A:ILE:HG23	1:63:A:GLN:HB3	17	0.27
(1,95)	1:38:A:GLU:HG3	1:51:A:THR:HB	26	0.27
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	18	0.27
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	11	0.26
(3,8)	1:49:A:THR:N	1:40:A:SER:O	5	0.26
(3,8)	1:49:A:THR:N	1:40:A:SER:O	9	0.26
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	3	0.26
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	3	0.26
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	12	0.26
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	12	0.26
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	12	0.26
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	20	0.26
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	20	0.26
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	20	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	20	0.26
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	20	0.26
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	20	0.26
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	20	0.26
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	20	0.26
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	20	0.26
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	29	0.26
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	29	0.26
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	29	0.26
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	29	0.26
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	29	0.26
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	29	0.26
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	29	0.26
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	29	0.26
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	29	0.26
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	25	0.26
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG11	4	0.26
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG12	4	0.26
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG13	4	0.26
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	11	0.26
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	11	0.26
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	11	0.26
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	18	0.26
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	18	0.26
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	18	0.26
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	19	0.26
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	19	0.26
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	19	0.26
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	25	0.26
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	25	0.26
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	25	0.26
(1,391)	1:32:A:ARG:H	1:32:A:ARG:HG3	24	0.26
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	15	0.26
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	15	0.26
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	15	0.26
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD11	8	0.26
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD12	8	0.26
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD13	8	0.26
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD11	27	0.26
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD12	27	0.26
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD13	27	0.26
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	17	0.26

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	8	0.26
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	8	0.26
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	7	0.26
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	7	0.26
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	7	0.26
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	8	0.26
(1,235)	1:60:A:ILE:HG21	1:63:A:GLN:HB3	25	0.26
(1,235)	1:60:A:ILE:HG22	1:63:A:GLN:HB3	25	0.26
(1,235)	1:60:A:ILE:HG23	1:63:A:GLN:HB3	25	0.26
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	11	0.26
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	28	0.26
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	28	0.26
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	28	0.26
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	26	0.26
(1,83)	1:36:A:VAL:HG11	1:52:A:TYR:HB3	11	0.26
(1,83)	1:36:A:VAL:HG12	1:52:A:TYR:HB3	11	0.26
(1,83)	1:36:A:VAL:HG13	1:52:A:TYR:HB3	11	0.26
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	30	0.26
(3,14)	1:15:A:GLY:N	1:72:A:THR:O	13	0.25
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	13	0.25
(3,7)	1:49:A:THR:H	1:40:A:SER:O	8	0.25
(3,7)	1:49:A:THR:H	1:40:A:SER:O	25	0.25
(3,7)	1:49:A:THR:H	1:40:A:SER:O	26	0.25
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	26	0.25
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	11	0.25
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	23	0.25
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	3	0.25
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	3	0.25
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	3	0.25
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	5	0.25
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	5	0.25
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	5	0.25
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	9	0.25
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	9	0.25
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	9	0.25
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	17	0.25
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	17	0.25
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	17	0.25
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	24	0.25
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	24	0.25
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	24	0.25
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	1	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	20	0.25
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	20	0.25
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	20	0.25
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	22	0.25
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	22	0.25
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	22	0.25
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	22	0.25
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	22	0.25
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	22	0.25
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	22	0.25
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	22	0.25
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	22	0.25
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	22	0.25
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	22	0.25
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	22	0.25
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	25	0.25
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	25	0.25
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	25	0.25
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	25	0.25
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	25	0.25
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	25	0.25
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	25	0.25
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	25	0.25
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	25	0.25
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	2	0.25
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	2	0.25
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	26	0.25
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	26	0.25
(1,267)	1:26:A:ILE:HD11	1:65:A:ARG:HG3	24	0.25
(1,267)	1:26:A:ILE:HD12	1:65:A:ARG:HG3	24	0.25
(1,267)	1:26:A:ILE:HD13	1:65:A:ARG:HG3	24	0.25
(1,195)	1:48:A:LEU:HD11	1:50:A:VAL:HG11	3	0.25
(1,195)	1:48:A:LEU:HD11	1:50:A:VAL:HG12	3	0.25
(1,195)	1:48:A:LEU:HD11	1:50:A:VAL:HG13	3	0.25
(1,195)	1:48:A:LEU:HD12	1:50:A:VAL:HG11	3	0.25
(1,195)	1:48:A:LEU:HD12	1:50:A:VAL:HG12	3	0.25
(1,195)	1:48:A:LEU:HD12	1:50:A:VAL:HG13	3	0.25
(1,195)	1:48:A:LEU:HD13	1:50:A:VAL:HG11	3	0.25
(1,195)	1:48:A:LEU:HD13	1:50:A:VAL:HG12	3	0.25
(1,195)	1:48:A:LEU:HD13	1:50:A:VAL:HG13	3	0.25
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	2	0.25
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	11	0.25

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	21	0.25
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	21	0.25
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	21	0.25
(1,65)	1:50:A:VAL:HG21	1:75:A:GLU:HG3	6	0.25
(1,65)	1:50:A:VAL:HG22	1:75:A:GLU:HG3	6	0.25
(1,65)	1:50:A:VAL:HG23	1:75:A:GLU:HG3	6	0.25
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	17	0.25
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	17	0.25
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	17	0.25
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	17	0.25
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	17	0.25
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	17	0.25
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	4	0.25
(3,8)	1:49:A:THR:N	1:40:A:SER:O	1	0.24
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	3	0.24
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	10	0.24
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	10	0.24
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	10	0.24
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	1	0.24
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	1	0.24
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	1	0.24
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	5	0.24
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	5	0.24
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	5	0.24
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	14	0.24
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	14	0.24
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	14	0.24
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	17	0.24
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	17	0.24
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	17	0.24
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	21	0.24
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	21	0.24
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	21	0.24
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	28	0.24
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	28	0.24
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	28	0.24
(1,359)	1:7:A:LEU:HD11	1:52:A:TYR:H	17	0.24
(1,359)	1:7:A:LEU:HD12	1:52:A:TYR:H	17	0.24
(1,359)	1:7:A:LEU:HD13	1:52:A:TYR:H	17	0.24
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD11	1	0.24
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD12	1	0.24
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD13	1	0.24

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	9	0.24
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	9	0.24
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	2	0.24
(1,235)	1:60:A:ILE:HG21	1:63:A:GLN:HB3	3	0.24
(1,235)	1:60:A:ILE:HG22	1:63:A:GLN:HB3	3	0.24
(1,235)	1:60:A:ILE:HG23	1:63:A:GLN:HB3	3	0.24
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	6	0.24
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	6	0.24
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	6	0.24
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	5	0.24
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	5	0.24
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	5	0.24
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	6	0.24
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	6	0.24
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	6	0.24
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	11	0.24
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	12	0.24
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	12	0.24
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	12	0.24
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	12	0.24
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	12	0.24
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	12	0.24
(1,4)	1:7:A:LEU:HD21	1:52:A:TYR:HA	27	0.24
(1,4)	1:7:A:LEU:HD22	1:52:A:TYR:HA	27	0.24
(1,4)	1:7:A:LEU:HD23	1:52:A:TYR:HA	27	0.24
(3,13)	1:15:A:GLY:H	1:72:A:THR:O	18	0.23
(3,7)	1:49:A:THR:H	1:40:A:SER:O	13	0.23
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	16	0.23
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	16	0.23
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	16	0.23
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	16	0.23
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	16	0.23
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	16	0.23
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	16	0.23
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	16	0.23
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	16	0.23
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD11	27	0.23
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD12	27	0.23
(2,28)	1:62:A:ILE:HB	1:73:A:LEU:HD13	27	0.23
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	22	0.23
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	22	0.23
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	22	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,3)	1:50:A:VAL:HB	1:52:A:TYR:HB3	20	0.23
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	10	0.23
(1,618)	1:11:A:GLN:HB3	1:50:A:VAL:H	4	0.23
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	14	0.23
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	4	0.23
(1,472)	1:58:A:SER:H	1:62:A:ILE:H	2	0.23
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	15	0.23
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	8	0.23
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	8	0.23
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	8	0.23
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	10	0.23
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	10	0.23
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	10	0.23
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	29	0.23
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	29	0.23
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	29	0.23
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	3	0.23
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	11	0.23
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	10	0.23
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	10	0.23
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	10	0.23
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	23	0.23
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	23	0.23
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	23	0.23
(1,352)	1:7:A:LEU:H	1:8:A:LYS:HG3	22	0.23
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	6	0.23
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	6	0.23
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	6	0.23
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	2	0.23
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	2	0.23
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	2	0.23
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	2	0.23
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	2	0.23
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	2	0.23
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	2	0.23
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	2	0.23
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	2	0.23
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	1	0.23
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	1	0.23
(1,238)	1:60:A:ILE:HG13	1:64:A:GLU:HG3	28	0.23
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	6	0.23
(1,229)	1:60:A:ILE:HA	1:64:A:GLU:HG3	25	0.23

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	8	0.23
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	8	0.23
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	8	0.23
(1,4)	1:7:A:LEU:HD21	1:52:A:TYR:HA	5	0.23
(1,4)	1:7:A:LEU:HD22	1:52:A:TYR:HA	5	0.23
(1,4)	1:7:A:LEU:HD23	1:52:A:TYR:HA	5	0.23
(3,7)	1:49:A:THR:H	1:40:A:SER:O	6	0.22
(3,7)	1:49:A:THR:H	1:40:A:SER:O	20	0.22
(3,7)	1:49:A:THR:H	1:40:A:SER:O	28	0.22
(3,1)	1:12:A:MET:H	1:48:A:LEU:O	22	0.22
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	20	0.22
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	20	0.22
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	20	0.22
(1,654)	1:14:A:VAL:HG21	1:74:A:ALA:H	10	0.22
(1,654)	1:14:A:VAL:HG22	1:74:A:ALA:H	10	0.22
(1,654)	1:14:A:VAL:HG23	1:74:A:ALA:H	10	0.22
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	1	0.22
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	13	0.22
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	25	0.22
(1,472)	1:58:A:SER:H	1:62:A:ILE:H	29	0.22
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	12	0.22
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	12	0.22
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	12	0.22
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	20	0.22
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	20	0.22
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	20	0.22
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	21	0.22
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	21	0.22
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	21	0.22
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	27	0.22
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	27	0.22
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	27	0.22
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	19	0.22
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	19	0.22
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	19	0.22
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	25	0.22
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	25	0.22
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	25	0.22
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	21	0.22
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	21	0.22
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	21	0.22
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	24	0.22

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	24	0.22
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	24	0.22
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	24	0.22
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	24	0.22
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	24	0.22
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	24	0.22
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	24	0.22
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	24	0.22
(1,303)	1:61:A:THR:HA	1:64:A:GLU:HG3	26	0.22
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	21	0.22
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	21	0.22
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	29	0.22
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	29	0.22
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	29	0.22
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	29	0.22
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	29	0.22
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	29	0.22
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	29	0.22
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	29	0.22
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	29	0.22
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	13	0.22
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	13	0.22
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	13	0.22
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	1	0.22
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	5	0.22
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	15	0.22
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	21	0.22
(1,4)	1:7:A:LEU:HD21	1:52:A:TYR:HA	11	0.22
(1,4)	1:7:A:LEU:HD22	1:52:A:TYR:HA	11	0.22
(1,4)	1:7:A:LEU:HD23	1:52:A:TYR:HA	11	0.22
(3,7)	1:49:A:THR:H	1:40:A:SER:O	10	0.21
(3,7)	1:49:A:THR:H	1:40:A:SER:O	19	0.21
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	11	0.21
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	11	0.21
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	11	0.21
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	11	0.21
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	11	0.21
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	11	0.21
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	11	0.21
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	11	0.21
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	11	0.21
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	27	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	27	0.21
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	27	0.21
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	27	0.21
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	27	0.21
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	27	0.21
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	27	0.21
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	27	0.21
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	27	0.21
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	4	0.21
(1,655)	1:75:A:GLU:H	1:76:A:PRO:HA	13	0.21
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	6	0.21
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	22	0.21
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	29	0.21
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	29	0.21
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	29	0.21
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	15	0.21
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	23	0.21
(1,415)	1:36:A:VAL:HG21	1:38:A:GLU:H	25	0.21
(1,415)	1:36:A:VAL:HG22	1:38:A:GLU:H	25	0.21
(1,415)	1:36:A:VAL:HG23	1:38:A:GLU:H	25	0.21
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	14	0.21
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	14	0.21
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	14	0.21
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	24	0.21
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	24	0.21
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	24	0.21
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	11	0.21
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	11	0.21
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	11	0.21
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	17	0.21
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	17	0.21
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	17	0.21
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	19	0.21
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	19	0.21
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	19	0.21
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	6	0.21
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	6	0.21
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	6	0.21
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	6	0.21
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	6	0.21
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	6	0.21
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	6	0.21

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	6	0.21
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	6	0.21
(1,299)	1:35:A:GLY:HA3	1:56:A:GLN:HB3	20	0.21
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	15	0.21
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	15	0.21
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	15	0.21
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	15	0.21
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	15	0.21
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	15	0.21
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	15	0.21
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	15	0.21
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	15	0.21
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	18	0.21
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	18	0.21
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	18	0.21
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	8	0.21
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	8	0.21
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	8	0.21
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	8	0.21
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	8	0.21
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	8	0.21
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	6	0.2
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	1	0.2
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	2	0.2
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	11	0.2
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	29	0.2
(2,16)	1:12:A:MET:HG3	1:76:A:PRO:HD3	25	0.2
(1,656)	1:17:A:MET:H	1:46:A:GLY:HA3	22	0.2
(1,628)	1:58:A:SER:H	1:61:A:THR:H	12	0.2
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	6	0.2
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	23	0.2
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	25	0.2
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	2	0.2
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	15	0.2
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	3	0.2
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	29	0.2
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	9	0.2
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	27	0.2
(1,461)	1:55:A:LYS:H	1:55:A:LYS:HG3	30	0.2
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	6	0.2
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	6	0.2
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	6	0.2

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,449)	1:48:A:LEU:HD11	1:49:A:THR:H	13	0.2
(1,449)	1:48:A:LEU:HD12	1:49:A:THR:H	13	0.2
(1,449)	1:48:A:LEU:HD13	1:49:A:THR:H	13	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	3	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	3	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	3	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	4	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	4	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	4	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	12	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	12	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	12	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	22	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	22	0.2
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	22	0.2
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	28	0.2
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	28	0.2
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	28	0.2
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	15	0.2
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	15	0.2
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	25	0.2
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	25	0.2
(1,243)	1:42:A:THR:HB	1:47:A:ARG:HB3	30	0.2
(1,4)	1:7:A:LEU:HD21	1:52:A:TYR:HA	2	0.2
(1,4)	1:7:A:LEU:HD22	1:52:A:TYR:HA	2	0.2
(1,4)	1:7:A:LEU:HD23	1:52:A:TYR:HA	2	0.2
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	11	0.2
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	11	0.2
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	11	0.2
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	27	0.2
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	27	0.2
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	27	0.2
(3,14)	1:15:A:GLY:N	1:72:A:THR:O	18	0.19
(3,7)	1:49:A:THR:H	1:40:A:SER:O	17	0.19
(2,63)	1:17:A:MET:H	1:46:A:GLY:HA2	4	0.19
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	28	0.19
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	28	0.19
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	28	0.19
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	28	0.19
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	28	0.19
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	28	0.19
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	28	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	28	0.19
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	28	0.19
(2,21)	1:8:A:LYS:HE3	1:54:A:PRO:HB3	26	0.19
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	27	0.19
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	27	0.19
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	27	0.19
(1,654)	1:14:A:VAL:HG21	1:74:A:ALA:H	7	0.19
(1,654)	1:14:A:VAL:HG22	1:74:A:ALA:H	7	0.19
(1,654)	1:14:A:VAL:HG23	1:74:A:ALA:H	7	0.19
(1,654)	1:14:A:VAL:HG21	1:74:A:ALA:H	15	0.19
(1,654)	1:14:A:VAL:HG22	1:74:A:ALA:H	15	0.19
(1,654)	1:14:A:VAL:HG23	1:74:A:ALA:H	15	0.19
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	18	0.19
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	30	0.19
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	12	0.19
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	20	0.19
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	15	0.19
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	18	0.19
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	10	0.19
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	16	0.19
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	8	0.19
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	8	0.19
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	8	0.19
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	27	0.19
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	27	0.19
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	27	0.19
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	30	0.19
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	30	0.19
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	30	0.19
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	4	0.19
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	4	0.19
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	4	0.19
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	4	0.19
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	4	0.19
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	4	0.19
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	4	0.19
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	4	0.19
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	4	0.19
(1,304)	1:61:A:THR:HB	1:62:A:ILE:HB	11	0.19
(1,298)	1:15:A:GLY:HA2	1:16:A:GLY:HA3	3	0.19
(1,298)	1:15:A:GLY:HA3	1:16:A:GLY:HA3	3	0.19
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD21	17	0.19

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD22	17	0.19
(1,294)	1:6:A:PRO:HG3	1:7:A:LEU:HD23	17	0.19
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	21	0.19
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	21	0.19
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	21	0.19
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	21	0.19
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	21	0.19
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	21	0.19
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	21	0.19
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	21	0.19
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	21	0.19
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	15	0.19
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	15	0.19
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	15	0.19
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	28	0.19
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	28	0.19
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	28	0.19
(1,152)	1:7:A:LEU:HG	1:8:A:LYS:HB3	10	0.19
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	25	0.19
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	25	0.19
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	25	0.19
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	27	0.19
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	27	0.19
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	27	0.19
(1,101)	1:59:A:GLU:HA	1:75:A:GLU:HB3	7	0.19
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	10	0.19
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	13	0.19
(1,83)	1:36:A:VAL:HG11	1:52:A:TYR:HB3	19	0.19
(1,83)	1:36:A:VAL:HG12	1:52:A:TYR:HB3	19	0.19
(1,83)	1:36:A:VAL:HG13	1:52:A:TYR:HB3	19	0.19
(1,77)	1:7:A:LEU:HD21	1:53:A:ASP:HB3	7	0.19
(1,77)	1:7:A:LEU:HD22	1:53:A:ASP:HB3	7	0.19
(1,77)	1:7:A:LEU:HD23	1:53:A:ASP:HB3	7	0.19
(1,42)	1:36:A:VAL:HA	1:53:A:ASP:HB3	27	0.19
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	6	0.19
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	9	0.19
(1,4)	1:7:A:LEU:HD21	1:52:A:TYR:HA	19	0.19
(1,4)	1:7:A:LEU:HD22	1:52:A:TYR:HA	19	0.19
(1,4)	1:7:A:LEU:HD23	1:52:A:TYR:HA	19	0.19
(3,13)	1:15:A:GLY:H	1:72:A:THR:O	16	0.18
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	22	0.18
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	22	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,7)	1:49:A:THR:H	1:40:A:SER:O	24	0.18
(3,7)	1:49:A:THR:H	1:40:A:SER:O	27	0.18
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	23	0.18
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	23	0.18
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	17	0.18
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	17	0.18
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	17	0.18
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	25	0.18
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	22	0.18
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	22	0.18
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	22	0.18
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	22	0.18
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	22	0.18
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	22	0.18
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	22	0.18
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	22	0.18
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	22	0.18
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG21	18	0.18
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG22	18	0.18
(2,4)	1:34:A:LYS:HA	1:57:A:VAL:HG23	18	0.18
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	10	0.18
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	5	0.18
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	12	0.18
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	21	0.18
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	22	0.18
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	27	0.18
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	10	0.18
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	17	0.18
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	23	0.18
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	5	0.18
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	25	0.18
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	2	0.18
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	2	0.18
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	2	0.18
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	2	0.18
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	8	0.18
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	1	0.18
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	1	0.18
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	1	0.18
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	1	0.18
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	1	0.18
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	1	0.18

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	1	0.18
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	1	0.18
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	1	0.18
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	10	0.18
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	10	0.18
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	10	0.18
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	10	0.18
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	10	0.18
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	10	0.18
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	10	0.18
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	10	0.18
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	10	0.18
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	25	0.18
(1,95)	1:38:A:GLU:HG3	1:51:A:THR:HB	27	0.18
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	23	0.18
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	16	0.18
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	20	0.18
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	29	0.18
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	13	0.17
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	17	0.17
(3,2)	1:12:A:MET:N	1:48:A:LEU:O	22	0.17
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	5	0.17
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	5	0.17
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	5	0.17
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	7	0.17
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	9	0.17
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	10	0.17
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	10	0.17
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	10	0.17
(1,413)	1:38:A:GLU:H	1:39:A:ALA:HB1	3	0.17
(1,413)	1:38:A:GLU:H	1:39:A:ALA:HB2	3	0.17
(1,413)	1:38:A:GLU:H	1:39:A:ALA:HB3	3	0.17
(1,360)	1:50:A:VAL:HG21	1:52:A:TYR:H	3	0.17
(1,360)	1:50:A:VAL:HG22	1:52:A:TYR:H	3	0.17
(1,360)	1:50:A:VAL:HG23	1:52:A:TYR:H	3	0.17
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	29	0.17
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	28	0.17
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	28	0.17
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	28	0.17
(1,181)	1:30:A:LEU:HG	1:31:A:GLU:HA	3	0.17
(1,181)	1:30:A:LEU:HG	1:31:A:GLU:HA	7	0.17
(1,167)	1:7:A:LEU:HD21	1:8:A:LYS:H	3	0.17

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:7:A:LEU:HD22	1:8:A:LYS:H	3	0.17
(1,167)	1:7:A:LEU:HD23	1:8:A:LYS:H	3	0.17
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	2	0.17
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	2	0.17
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	2	0.17
(1,95)	1:38:A:GLU:HG3	1:51:A:THR:HB	5	0.17
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	4	0.17
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	28	0.17
(1,50)	1:35:A:GLY:HA2	1:57:A:VAL:HG21	3	0.17
(1,50)	1:35:A:GLY:HA2	1:57:A:VAL:HG22	3	0.17
(1,50)	1:35:A:GLY:HA2	1:57:A:VAL:HG23	3	0.17
(3,7)	1:49:A:THR:H	1:40:A:SER:O	7	0.16
(3,7)	1:49:A:THR:H	1:40:A:SER:O	30	0.16
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	20	0.16
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	10	0.16
(2,5)	1:35:A:GLY:HA3	1:53:A:ASP:HB3	3	0.16
(2,3)	1:50:A:VAL:HB	1:52:A:TYR:HB3	17	0.16
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	11	0.16
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	20	0.16
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	28	0.16
(1,607)	1:42:A:THR:H	1:47:A:ARG:HB3	16	0.16
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	19	0.16
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	28	0.16
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	11	0.16
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG21	23	0.16
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG22	23	0.16
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG23	23	0.16
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	4	0.16
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG11	22	0.16
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG12	22	0.16
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG13	22	0.16
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	19	0.16
(1,451)	1:41:A:VAL:HG11	1:49:A:THR:H	15	0.16
(1,451)	1:41:A:VAL:HG12	1:49:A:THR:H	15	0.16
(1,451)	1:41:A:VAL:HG13	1:49:A:THR:H	15	0.16
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	27	0.16
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	10	0.16
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	10	0.16
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	10	0.16
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	12	0.16
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	12	0.16
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	12	0.16

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	4	0.16
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD21	11	0.16
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD22	11	0.16
(1,278)	1:27:A:GLU:HG3	1:48:A:LEU:HD23	11	0.16
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	5	0.16
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	5	0.16
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	5	0.16
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG11	16	0.16
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG12	16	0.16
(1,259)	1:26:A:ILE:HG21	1:41:A:VAL:HG13	16	0.16
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG11	16	0.16
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG12	16	0.16
(1,259)	1:26:A:ILE:HG22	1:41:A:VAL:HG13	16	0.16
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG11	16	0.16
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG12	16	0.16
(1,259)	1:26:A:ILE:HG23	1:41:A:VAL:HG13	16	0.16
(1,181)	1:30:A:LEU:HG	1:31:A:GLU:HA	1	0.16
(1,181)	1:30:A:LEU:HG	1:31:A:GLU:HA	2	0.16
(1,167)	1:7:A:LEU:HD21	1:8:A:LYS:H	7	0.16
(1,167)	1:7:A:LEU:HD22	1:8:A:LYS:H	7	0.16
(1,167)	1:7:A:LEU:HD23	1:8:A:LYS:H	7	0.16
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG11	3	0.16
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG12	3	0.16
(1,147)	1:17:A:MET:HG3	1:41:A:VAL:HG13	3	0.16
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	7	0.16
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	12	0.16
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	24	0.16
(1,80)	1:36:A:VAL:HG21	1:52:A:TYR:HA	3	0.16
(1,80)	1:36:A:VAL:HG22	1:52:A:TYR:HA	3	0.16
(1,80)	1:36:A:VAL:HG23	1:52:A:TYR:HA	3	0.16
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA2	26	0.16
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA2	26	0.16
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA2	26	0.16
(1,55)	1:43:A:VAL:HG11	1:46:A:GLY:HA3	26	0.16
(1,55)	1:43:A:VAL:HG12	1:46:A:GLY:HA3	26	0.16
(1,55)	1:43:A:VAL:HG13	1:46:A:GLY:HA3	26	0.16
(1,51)	1:35:A:GLY:HA2	1:56:A:GLN:HB3	22	0.16
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	17	0.16
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	21	0.16
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	27	0.16
(3,13)	1:15:A:GLY:H	1:72:A:THR:O	17	0.15
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	25	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	29	0.15
(1,654)	1:14:A:VAL:HG21	1:74:A:ALA:H	12	0.15
(1,654)	1:14:A:VAL:HG22	1:74:A:ALA:H	12	0.15
(1,654)	1:14:A:VAL:HG23	1:74:A:ALA:H	12	0.15
(1,647)	1:65:A:ARG:HG3	1:69:A:LEU:H	17	0.15
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	10	0.15
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	26	0.15
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	4	0.15
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	18	0.15
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG21	26	0.15
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG22	26	0.15
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG23	26	0.15
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	28	0.15
(1,515)	1:65:A:ARG:HA	1:69:A:LEU:H	4	0.15
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	14	0.15
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	18	0.15
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	24	0.15
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	21	0.15
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	21	0.15
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	21	0.15
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	23	0.15
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	23	0.15
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	23	0.15
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	5	0.15
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	5	0.15
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	5	0.15
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	26	0.15
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	26	0.15
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	26	0.15
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	6	0.15
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	21	0.15
(1,212)	1:62:A:ILE:HA	1:66:A:ILE:HD11	8	0.15
(1,212)	1:62:A:ILE:HA	1:66:A:ILE:HD12	8	0.15
(1,212)	1:62:A:ILE:HA	1:66:A:ILE:HD13	8	0.15
(1,167)	1:7:A:LEU:HD21	1:8:A:LYS:H	16	0.15
(1,167)	1:7:A:LEU:HD22	1:8:A:LYS:H	16	0.15
(1,167)	1:7:A:LEU:HD23	1:8:A:LYS:H	16	0.15
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	8	0.15
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	8	0.15
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	8	0.15
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	19	0.15
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	22	0.15

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	27	0.15
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	29	0.15
(1,72)	1:35:A:GLY:H	1:57:A:VAL:HG21	3	0.15
(1,72)	1:35:A:GLY:H	1:57:A:VAL:HG22	3	0.15
(1,72)	1:35:A:GLY:H	1:57:A:VAL:HG23	3	0.15
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	2	0.15
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	2	0.15
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	2	0.15
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	3	0.15
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	4	0.15
(1,4)	1:7:A:LEU:HD21	1:52:A:TYR:HA	17	0.15
(1,4)	1:7:A:LEU:HD22	1:52:A:TYR:HA	17	0.15
(1,4)	1:7:A:LEU:HD23	1:52:A:TYR:HA	17	0.15
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	4	0.15
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	4	0.15
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	4	0.15
(1,3)	1:7:A:LEU:HD21	1:53:A:ASP:HA	12	0.15
(1,3)	1:7:A:LEU:HD22	1:53:A:ASP:HA	12	0.15
(1,3)	1:7:A:LEU:HD23	1:53:A:ASP:HA	12	0.15
(3,14)	1:15:A:GLY:N	1:72:A:THR:O	17	0.14
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	27	0.14
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	12	0.14
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	22	0.14
(2,68)	1:41:A:VAL:HG21	1:43:A:VAL:H	16	0.14
(2,68)	1:41:A:VAL:HG22	1:43:A:VAL:H	16	0.14
(2,68)	1:41:A:VAL:HG23	1:43:A:VAL:H	16	0.14
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	3	0.14
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	7	0.14
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD11	1	0.14
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD12	1	0.14
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD13	1	0.14
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD11	1	0.14
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD12	1	0.14
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD13	1	0.14
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD11	1	0.14
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD12	1	0.14
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD13	1	0.14
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	12	0.14
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	14	0.14
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	24	0.14
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	9	0.14
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	18	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	21	0.14
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	1	0.14
(1,589)	1:14:A:VAL:HG21	1:17:A:MET:H	24	0.14
(1,589)	1:14:A:VAL:HG22	1:17:A:MET:H	24	0.14
(1,589)	1:14:A:VAL:HG23	1:17:A:MET:H	24	0.14
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG21	29	0.14
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG22	29	0.14
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG23	29	0.14
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	2	0.14
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	3	0.14
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	25	0.14
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	8	0.14
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	16	0.14
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	26	0.14
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	27	0.14
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	27	0.14
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	27	0.14
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	30	0.14
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	30	0.14
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	30	0.14
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	7	0.14
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	10	0.14
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	19	0.14
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	29	0.14
(1,267)	1:26:A:ILE:HD11	1:65:A:ARG:HG3	7	0.14
(1,267)	1:26:A:ILE:HD12	1:65:A:ARG:HG3	7	0.14
(1,267)	1:26:A:ILE:HD13	1:65:A:ARG:HG3	7	0.14
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	28	0.14
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	28	0.14
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	28	0.14
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	23	0.14
(1,143)	1:12:A:MET:HG3	1:14:A:VAL:HB	16	0.14
(1,143)	1:12:A:MET:HG3	1:14:A:VAL:HB	18	0.14
(1,95)	1:38:A:GLU:HG3	1:51:A:THR:HB	12	0.14
(1,95)	1:38:A:GLU:HG3	1:51:A:THR:HB	30	0.14
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	14	0.14
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	2	0.14
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	2	0.14
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	2	0.14
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	5	0.14
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	10	0.14
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	15	0.14

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	8	0.13
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	14	0.13
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	30	0.13
(2,3)	1:50:A:VAL:HB	1:52:A:TYR:HB3	16	0.13
(1,659)	1:25:A:SER:HA	1:27:A:GLU:H	9	0.13
(1,655)	1:75:A:GLU:H	1:76:A:PRO:HA	20	0.13
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	19	0.13
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	21	0.13
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	25	0.13
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	2	0.13
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	4	0.13
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	16	0.13
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	29	0.13
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	6	0.13
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	6	0.13
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	6	0.13
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	1	0.13
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	8	0.13
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG21	13	0.13
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG22	13	0.13
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG23	13	0.13
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG11	24	0.13
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG12	24	0.13
(1,564)	1:27:A:GLU:H	1:41:A:VAL:HG13	24	0.13
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	3	0.13
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	21	0.13
(1,453)	1:36:A:VAL:HG21	1:51:A:THR:H	27	0.13
(1,453)	1:36:A:VAL:HG22	1:51:A:THR:H	27	0.13
(1,453)	1:36:A:VAL:HG23	1:51:A:THR:H	27	0.13
(1,360)	1:50:A:VAL:HG21	1:52:A:TYR:H	29	0.13
(1,360)	1:50:A:VAL:HG22	1:52:A:TYR:H	29	0.13
(1,360)	1:50:A:VAL:HG23	1:52:A:TYR:H	29	0.13
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD11	4	0.13
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD12	4	0.13
(1,351)	1:7:A:LEU:H	1:7:A:LEU:HD13	4	0.13
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	1	0.13
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	9	0.13
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	22	0.13
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	25	0.13
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	25	0.13
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	25	0.13
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	26	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	26	0.13
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	26	0.13
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	20	0.13
(1,264)	1:26:A:ILE:HD11	1:66:A:ILE:HG13	23	0.13
(1,264)	1:26:A:ILE:HD12	1:66:A:ILE:HG13	23	0.13
(1,264)	1:26:A:ILE:HD13	1:66:A:ILE:HG13	23	0.13
(1,262)	1:25:A:SER:HA	1:26:A:ILE:HD11	4	0.13
(1,262)	1:25:A:SER:HA	1:26:A:ILE:HD12	4	0.13
(1,262)	1:25:A:SER:HA	1:26:A:ILE:HD13	4	0.13
(1,257)	1:26:A:ILE:HG21	1:27:A:GLU:HG3	20	0.13
(1,257)	1:26:A:ILE:HG22	1:27:A:GLU:HG3	20	0.13
(1,257)	1:26:A:ILE:HG23	1:27:A:GLU:HG3	20	0.13
(1,247)	1:11:A:GLN:HG3	1:47:A:ARG:HD3	20	0.13
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	20	0.13
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	20	0.13
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	20	0.13
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	16	0.13
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	16	0.13
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	16	0.13
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	21	0.13
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	21	0.13
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	21	0.13
(1,201)	1:48:A:LEU:HD21	1:50:A:VAL:HG11	7	0.13
(1,201)	1:48:A:LEU:HD21	1:50:A:VAL:HG12	7	0.13
(1,201)	1:48:A:LEU:HD21	1:50:A:VAL:HG13	7	0.13
(1,201)	1:48:A:LEU:HD22	1:50:A:VAL:HG11	7	0.13
(1,201)	1:48:A:LEU:HD22	1:50:A:VAL:HG12	7	0.13
(1,201)	1:48:A:LEU:HD22	1:50:A:VAL:HG13	7	0.13
(1,201)	1:48:A:LEU:HD23	1:50:A:VAL:HG11	7	0.13
(1,201)	1:48:A:LEU:HD23	1:50:A:VAL:HG12	7	0.13
(1,201)	1:48:A:LEU:HD23	1:50:A:VAL:HG13	7	0.13
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	19	0.13
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	19	0.13
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	19	0.13
(1,181)	1:30:A:LEU:HG	1:31:A:GLU:HA	24	0.13
(1,167)	1:7:A:LEU:HD21	1:8:A:LYS:H	26	0.13
(1,167)	1:7:A:LEU:HD22	1:8:A:LYS:H	26	0.13
(1,167)	1:7:A:LEU:HD23	1:8:A:LYS:H	26	0.13
(1,155)	1:33:A:LEU:HA	1:34:A:LYS:HB3	19	0.13
(1,155)	1:33:A:LEU:HA	1:34:A:LYS:HB3	27	0.13
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	20	0.13
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	20	0.13

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	20	0.13
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	3	0.13
(1,116)	1:64:A:GLU:HB3	1:65:A:ARG:HA	9	0.13
(1,68)	1:57:A:VAL:HA	1:58:A:SER:HB3	4	0.13
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	1	0.13
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	1	0.13
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	1	0.13
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	1	0.13
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	1	0.13
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	1	0.13
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	1	0.13
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	1	0.13
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	1	0.13
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	18	0.13
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	18	0.13
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	18	0.13
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	8	0.13
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	25	0.13
(3,8)	1:49:A:THR:N	1:40:A:SER:O	25	0.12
(3,7)	1:49:A:THR:H	1:40:A:SER:O	2	0.12
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	29	0.12
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	13	0.12
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	4	0.12
(2,60)	1:68:A:ALA:H	1:69:A:LEU:HD11	13	0.12
(2,60)	1:68:A:ALA:H	1:69:A:LEU:HD12	13	0.12
(2,60)	1:68:A:ALA:H	1:69:A:LEU:HD13	13	0.12
(2,58)	1:14:A:VAL:HG21	1:47:A:ARG:H	16	0.12
(2,58)	1:14:A:VAL:HG22	1:47:A:ARG:H	16	0.12
(2,58)	1:14:A:VAL:HG23	1:47:A:ARG:H	16	0.12
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	1	0.12
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	15	0.12
(2,46)	1:27:A:GLU:HA	1:62:A:ILE:HD11	29	0.12
(2,46)	1:27:A:GLU:HA	1:62:A:ILE:HD12	29	0.12
(2,46)	1:27:A:GLU:HA	1:62:A:ILE:HD13	29	0.12
(2,36)	1:28:A:ARG:HG3	1:32:A:ARG:HD3	2	0.12
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	3	0.12
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	13	0.12
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	15	0.12
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	18	0.12
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	29	0.12
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	30	0.12
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	15	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	17	0.12
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	7	0.12
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	11	0.12
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	14	0.12
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	25	0.12
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	27	0.12
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	2	0.12
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	19	0.12
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	26	0.12
(1,590)	1:14:A:VAL:HB	1:17:A:MET:H	27	0.12
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	17	0.12
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	21	0.12
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	26	0.12
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	28	0.12
(1,497)	1:64:A:GLU:H	1:64:A:GLU:HG3	6	0.12
(1,479)	1:60:A:ILE:H	1:61:A:THR:HB	12	0.12
(1,446)	1:47:A:ARG:H	1:48:A:LEU:HG	4	0.12
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	29	0.12
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	13	0.12
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	13	0.12
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	13	0.12
(1,394)	1:29:A:ALA:HB1	1:33:A:LEU:H	18	0.12
(1,394)	1:29:A:ALA:HB2	1:33:A:LEU:H	18	0.12
(1,394)	1:29:A:ALA:HB3	1:33:A:LEU:H	18	0.12
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	6	0.12
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	6	0.12
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	6	0.12
(1,377)	1:15:A:GLY:H	1:66:A:ILE:HG21	11	0.12
(1,377)	1:15:A:GLY:H	1:66:A:ILE:HG22	11	0.12
(1,377)	1:15:A:GLY:H	1:66:A:ILE:HG23	11	0.12
(1,374)	1:12:A:MET:H	1:13:A:GLN:HA	29	0.12
(1,359)	1:7:A:LEU:HD11	1:52:A:TYR:H	9	0.12
(1,359)	1:7:A:LEU:HD12	1:52:A:TYR:H	9	0.12
(1,359)	1:7:A:LEU:HD13	1:52:A:TYR:H	9	0.12
(1,347)	1:32:A:ARG:H	1:33:A:LEU:HA	13	0.12
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	18	0.12
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	20	0.12
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	27	0.12
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	28	0.12
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	13	0.12
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	13	0.12
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	13	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	5	0.12
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	5	0.12
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	5	0.12
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	5	0.12
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	5	0.12
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	5	0.12
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	5	0.12
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	5	0.12
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	5	0.12
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD21	12	0.12
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD22	12	0.12
(1,308)	1:29:A:ALA:HB1	1:30:A:LEU:HD23	12	0.12
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD21	12	0.12
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD22	12	0.12
(1,308)	1:29:A:ALA:HB2	1:30:A:LEU:HD23	12	0.12
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD21	12	0.12
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD22	12	0.12
(1,308)	1:29:A:ALA:HB3	1:30:A:LEU:HD23	12	0.12
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	5	0.12
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	9	0.12
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	12	0.12
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	13	0.12
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	24	0.12
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	27	0.12
(1,251)	1:65:A:ARG:HD3	1:69:A:LEU:HG	25	0.12
(1,247)	1:11:A:GLN:HG3	1:47:A:ARG:HD3	22	0.12
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	23	0.12
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	23	0.12
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	23	0.12
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG21	2	0.12
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG22	2	0.12
(1,234)	1:57:A:VAL:HG11	1:60:A:ILE:HG23	2	0.12
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG21	2	0.12
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG22	2	0.12
(1,234)	1:57:A:VAL:HG12	1:60:A:ILE:HG23	2	0.12
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG21	2	0.12
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG22	2	0.12
(1,234)	1:57:A:VAL:HG13	1:60:A:ILE:HG23	2	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	13	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	13	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	13	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	19	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	19	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	19	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	30	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	30	0.12
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	30	0.12
(1,201)	1:48:A:LEU:HD21	1:50:A:VAL:HG11	22	0.12
(1,201)	1:48:A:LEU:HD21	1:50:A:VAL:HG12	22	0.12
(1,201)	1:48:A:LEU:HD21	1:50:A:VAL:HG13	22	0.12
(1,201)	1:48:A:LEU:HD22	1:50:A:VAL:HG11	22	0.12
(1,201)	1:48:A:LEU:HD22	1:50:A:VAL:HG12	22	0.12
(1,201)	1:48:A:LEU:HD22	1:50:A:VAL:HG13	22	0.12
(1,201)	1:48:A:LEU:HD23	1:50:A:VAL:HG11	22	0.12
(1,201)	1:48:A:LEU:HD23	1:50:A:VAL:HG12	22	0.12
(1,201)	1:48:A:LEU:HD23	1:50:A:VAL:HG13	22	0.12
(1,167)	1:7:A:LEU:HD21	1:8:A:LYS:H	18	0.12
(1,167)	1:7:A:LEU:HD22	1:8:A:LYS:H	18	0.12
(1,167)	1:7:A:LEU:HD23	1:8:A:LYS:H	18	0.12
(1,155)	1:33:A:LEU:HA	1:34:A:LYS:HB3	2	0.12
(1,143)	1:12:A:MET:HG3	1:14:A:VAL:HB	24	0.12
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	26	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	10	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	10	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	10	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	10	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	10	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	10	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	10	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	10	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	10	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	11	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	11	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	11	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	11	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	11	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	11	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	11	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	11	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	11	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	12	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	12	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	12	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	12	0.12

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	12	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	12	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	12	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	12	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	12	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	30	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	30	0.12
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	30	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	30	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	30	0.12
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	30	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	30	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	30	0.12
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	30	0.12
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	4	0.12
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	4	0.12
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	4	0.12
(1,37)	1:14:A:VAL:HG11	1:73:A:LEU:HB3	8	0.12
(1,37)	1:14:A:VAL:HG12	1:73:A:LEU:HB3	8	0.12
(1,37)	1:14:A:VAL:HG13	1:73:A:LEU:HB3	8	0.12
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	22	0.12
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	28	0.12
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	30	0.12
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	25	0.11
(3,8)	1:49:A:THR:N	1:40:A:SER:O	28	0.11
(3,6)	1:47:A:ARG:N	1:42:A:THR:O	13	0.11
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	16	0.11
(3,3)	1:10:A:GLN:H	1:50:A:VAL:O	13	0.11
(3,1)	1:12:A:MET:H	1:48:A:LEU:O	12	0.11
(2,48)	1:23:A:ALA:HA	1:43:A:VAL:HA	19	0.11
(2,46)	1:27:A:GLU:HA	1:62:A:ILE:HD11	12	0.11
(2,46)	1:27:A:GLU:HA	1:62:A:ILE:HD12	12	0.11
(2,46)	1:27:A:GLU:HA	1:62:A:ILE:HD13	12	0.11
(2,36)	1:28:A:ARG:HG3	1:32:A:ARG:HD3	14	0.11
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD11	7	0.11
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD12	7	0.11
(2,30)	1:72:A:THR:HG21	1:73:A:LEU:HD13	7	0.11
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD11	7	0.11
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD12	7	0.11
(2,30)	1:72:A:THR:HG22	1:73:A:LEU:HD13	7	0.11
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD11	7	0.11
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD12	7	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(2,30)	1:72:A:THR:HG23	1:73:A:LEU:HD13	7	0.11
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD11	12	0.11
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD12	12	0.11
(2,29)	1:67:A:ALA:HB1	1:73:A:LEU:HD13	12	0.11
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD11	12	0.11
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD12	12	0.11
(2,29)	1:67:A:ALA:HB2	1:73:A:LEU:HD13	12	0.11
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD11	12	0.11
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD12	12	0.11
(2,29)	1:67:A:ALA:HB3	1:73:A:LEU:HD13	12	0.11
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD11	2	0.11
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD12	2	0.11
(2,26)	1:66:A:ILE:HA	1:73:A:LEU:HD13	2	0.11
(1,655)	1:75:A:GLU:H	1:76:A:PRO:HA	3	0.11
(1,644)	1:64:A:GLU:HB3	1:68:A:ALA:H	28	0.11
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	2	0.11
(1,624)	1:53:A:ASP:H	1:55:A:LYS:H	8	0.11
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	13	0.11
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	16	0.11
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	26	0.11
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG21	3	0.11
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG22	3	0.11
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG23	3	0.11
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG21	24	0.11
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG22	24	0.11
(1,579)	1:7:A:LEU:H	1:51:A:THR:HG23	24	0.11
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	20	0.11
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD11	26	0.11
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD12	26	0.11
(1,558)	1:29:A:ALA:H	1:69:A:LEU:HD13	26	0.11
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	7	0.11
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	14	0.11
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	23	0.11
(1,444)	1:47:A:ARG:H	1:47:A:ARG:HB3	8	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	8	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	8	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	8	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	9	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	9	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	9	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	17	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	17	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	17	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG11	18	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG12	18	0.11
(1,420)	1:40:A:SER:H	1:50:A:VAL:HG13	18	0.11
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	13	0.11
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	13	0.11
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	13	0.11
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD21	16	0.11
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD22	16	0.11
(1,380)	1:30:A:LEU:H	1:30:A:LEU:HD23	16	0.11
(1,374)	1:12:A:MET:H	1:13:A:GLN:HA	3	0.11
(1,354)	1:6:A:PRO:HD3	1:7:A:LEU:H	27	0.11
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	3	0.11
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	17	0.11
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG21	21	0.11
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG22	21	0.11
(1,344)	1:31:A:GLU:HA	1:36:A:VAL:HG23	21	0.11
(1,341)	1:11:A:GLN:HG3	1:49:A:THR:HG21	1	0.11
(1,341)	1:11:A:GLN:HG3	1:49:A:THR:HG22	1	0.11
(1,341)	1:11:A:GLN:HG3	1:49:A:THR:HG23	1	0.11
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	22	0.11
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	22	0.11
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	22	0.11
(1,304)	1:61:A:THR:HB	1:62:A:ILE:HB	3	0.11
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	19	0.11
(1,289)	1:10:A:GLN:H	1:49:A:THR:HA	28	0.11
(1,262)	1:25:A:SER:HA	1:26:A:ILE:HD11	13	0.11
(1,262)	1:25:A:SER:HA	1:26:A:ILE:HD12	13	0.11
(1,262)	1:25:A:SER:HA	1:26:A:ILE:HD13	13	0.11
(1,256)	1:26:A:ILE:HG21	1:30:A:LEU:H	1	0.11
(1,256)	1:26:A:ILE:HG22	1:30:A:LEU:H	1	0.11
(1,256)	1:26:A:ILE:HG23	1:30:A:LEU:H	1	0.11
(1,247)	1:11:A:GLN:HG3	1:47:A:ARG:HD3	1	0.11
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	22	0.11
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	22	0.11
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	22	0.11
(1,204)	1:25:A:SER:HB3	1:69:A:LEU:HA	10	0.11
(1,182)	1:30:A:LEU:HD11	1:34:A:LYS:H	16	0.11
(1,182)	1:30:A:LEU:HD12	1:34:A:LYS:H	16	0.11
(1,182)	1:30:A:LEU:HD13	1:34:A:LYS:H	16	0.11
(1,167)	1:7:A:LEU:HD21	1:8:A:LYS:H	23	0.11
(1,167)	1:7:A:LEU:HD22	1:8:A:LYS:H	23	0.11

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,167)	1:7:A:LEU:HD23	1:8:A:LYS:H	23	0.11
(1,162)	1:7:A:LEU:HA	1:8:A:LYS:HG3	4	0.11
(1,155)	1:33:A:LEU:HA	1:34:A:LYS:HB3	7	0.11
(1,144)	1:12:A:MET:HG3	1:73:A:LEU:HB3	4	0.11
(1,143)	1:12:A:MET:HG3	1:14:A:VAL:HB	13	0.11
(1,143)	1:12:A:MET:HG3	1:14:A:VAL:HB	23	0.11
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	1	0.11
(1,90)	1:31:A:GLU:HB3	1:32:A:ARG:HA	20	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	2	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	2	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	2	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	2	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	2	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	2	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	2	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	2	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	2	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	17	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	17	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	17	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	17	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	17	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	17	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	17	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	17	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	17	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	29	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	29	0.11
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	29	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	29	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	29	0.11
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	29	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	29	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	29	0.11
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	29	0.11
(1,57)	1:43:A:VAL:HG21	1:46:A:GLY:HA2	17	0.11
(1,57)	1:43:A:VAL:HG22	1:46:A:GLY:HA2	17	0.11
(1,57)	1:43:A:VAL:HG23	1:46:A:GLY:HA2	17	0.11
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	24	0.11
(3,13)	1:15:A:GLY:H	1:72:A:THR:O	20	0.1
(3,12)	1:13:A:GLN:N	1:74:A:ALA:O	27	0.1
(3,11)	1:13:A:GLN:H	1:74:A:ALA:O	2	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,8)	1:49:A:THR:N	1:40:A:SER:O	4	0.1
(3,5)	1:47:A:ARG:H	1:42:A:THR:O	17	0.1
(3,4)	1:10:A:GLN:N	1:50:A:VAL:O	8	0.1
(2,68)	1:41:A:VAL:HG21	1:43:A:VAL:H	10	0.1
(2,68)	1:41:A:VAL:HG22	1:43:A:VAL:H	10	0.1
(2,68)	1:41:A:VAL:HG23	1:43:A:VAL:H	10	0.1
(1,625)	1:55:A:LYS:H	1:57:A:VAL:H	4	0.1
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG21	11	0.1
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG22	11	0.1
(1,600)	1:36:A:VAL:H	1:57:A:VAL:HG23	11	0.1
(1,595)	1:25:A:SER:H	1:28:A:ARG:H	22	0.1
(1,587)	1:14:A:VAL:H	1:47:A:ARG:HA	8	0.1
(1,575)	1:22:A:CYS:HA	1:24:A:SER:H	15	0.1
(1,556)	1:23:A:ALA:H	1:41:A:VAL:HB	2	0.1
(1,515)	1:65:A:ARG:HA	1:69:A:LEU:H	23	0.1
(1,515)	1:65:A:ARG:HA	1:69:A:LEU:H	25	0.1
(1,374)	1:12:A:MET:H	1:13:A:GLN:HA	23	0.1
(1,356)	1:8:A:LYS:H	1:51:A:THR:HG21	8	0.1
(1,356)	1:8:A:LYS:H	1:51:A:THR:HG22	8	0.1
(1,356)	1:8:A:LYS:H	1:51:A:THR:HG23	8	0.1
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	15	0.1
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	16	0.1
(1,345)	1:31:A:GLU:H	1:32:A:ARG:HA	21	0.1
(1,309)	1:29:A:ALA:HB1	1:30:A:LEU:HB3	4	0.1
(1,309)	1:29:A:ALA:HB2	1:30:A:LEU:HB3	4	0.1
(1,309)	1:29:A:ALA:HB3	1:30:A:LEU:HB3	4	0.1
(1,244)	1:42:A:THR:HG21	1:47:A:ARG:HB3	24	0.1
(1,244)	1:42:A:THR:HG22	1:47:A:ARG:HB3	24	0.1
(1,244)	1:42:A:THR:HG23	1:47:A:ARG:HB3	24	0.1
(1,235)	1:60:A:ILE:HG21	1:63:A:GLN:HB3	8	0.1
(1,235)	1:60:A:ILE:HG22	1:63:A:GLN:HB3	8	0.1
(1,235)	1:60:A:ILE:HG23	1:63:A:GLN:HB3	8	0.1
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	5	0.1
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	5	0.1
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	5	0.1
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	24	0.1
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	24	0.1
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	24	0.1
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG21	26	0.1
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG22	26	0.1
(1,232)	1:57:A:VAL:HB	1:60:A:ILE:HG23	26	0.1
(1,212)	1:62:A:ILE:HA	1:66:A:ILE:HD11	10	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,212)	1:62:A:ILE:HA	1:66:A:ILE:HD12	10	0.1
(1,212)	1:62:A:ILE:HA	1:66:A:ILE:HD13	10	0.1
(1,155)	1:33:A:LEU:HA	1:34:A:LYS:HB3	4	0.1
(1,155)	1:33:A:LEU:HA	1:34:A:LYS:HB3	26	0.1
(1,143)	1:12:A:MET:HG3	1:14:A:VAL:HB	28	0.1
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG21	5	0.1
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG22	5	0.1
(1,129)	1:10:A:GLN:HG3	1:50:A:VAL:HG23	5	0.1
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG21	14	0.1
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG22	14	0.1
(1,126)	1:10:A:GLN:HB3	1:50:A:VAL:HG23	14	0.1
(1,115)	1:64:A:GLU:HA	1:68:A:ALA:HB1	13	0.1
(1,115)	1:64:A:GLU:HA	1:68:A:ALA:HB2	13	0.1
(1,115)	1:64:A:GLU:HA	1:68:A:ALA:HB3	13	0.1
(1,93)	1:38:A:GLU:HA	1:51:A:THR:HB	8	0.1
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	3	0.1
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	3	0.1
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	3	0.1
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	3	0.1
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	3	0.1
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	3	0.1
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	3	0.1
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	3	0.1
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	3	0.1
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	13	0.1
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	13	0.1
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	13	0.1
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	13	0.1
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	13	0.1
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	13	0.1
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	13	0.1
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	13	0.1
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	13	0.1
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG21	18	0.1
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG22	18	0.1
(1,66)	1:50:A:VAL:HG21	1:62:A:ILE:HG23	18	0.1
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG21	18	0.1
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG22	18	0.1
(1,66)	1:50:A:VAL:HG22	1:62:A:ILE:HG23	18	0.1
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG21	18	0.1
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG22	18	0.1
(1,66)	1:50:A:VAL:HG23	1:62:A:ILE:HG23	18	0.1

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	7	0.1
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	13	0.1
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	14	0.1
(1,34)	1:67:A:ALA:HA	1:72:A:THR:HA	23	0.1

10 Dihedral-angle violation analysis ⓘ

No dihedral-angle restraints found